

**"ST" Series
Bearcat/Cougar/Panther**

Parts Catalog

37-071R6

CASE III

Dealer Parts Ordering Depots

United States & *Export

- Steiger Tractor, Inc.
3101 1st Avenue North
Fargo, North Dakota 58102
Telex: 29-2221
- Steiger Tractor, Inc.
1321 "E" Street
Fresno, California 93760
Phone: 209-233-2475
- Steiger Tractor, Inc.
13613 Lakefront Drive
Earth City, Missouri 63045
Phone: 314-298-0866

*Canada

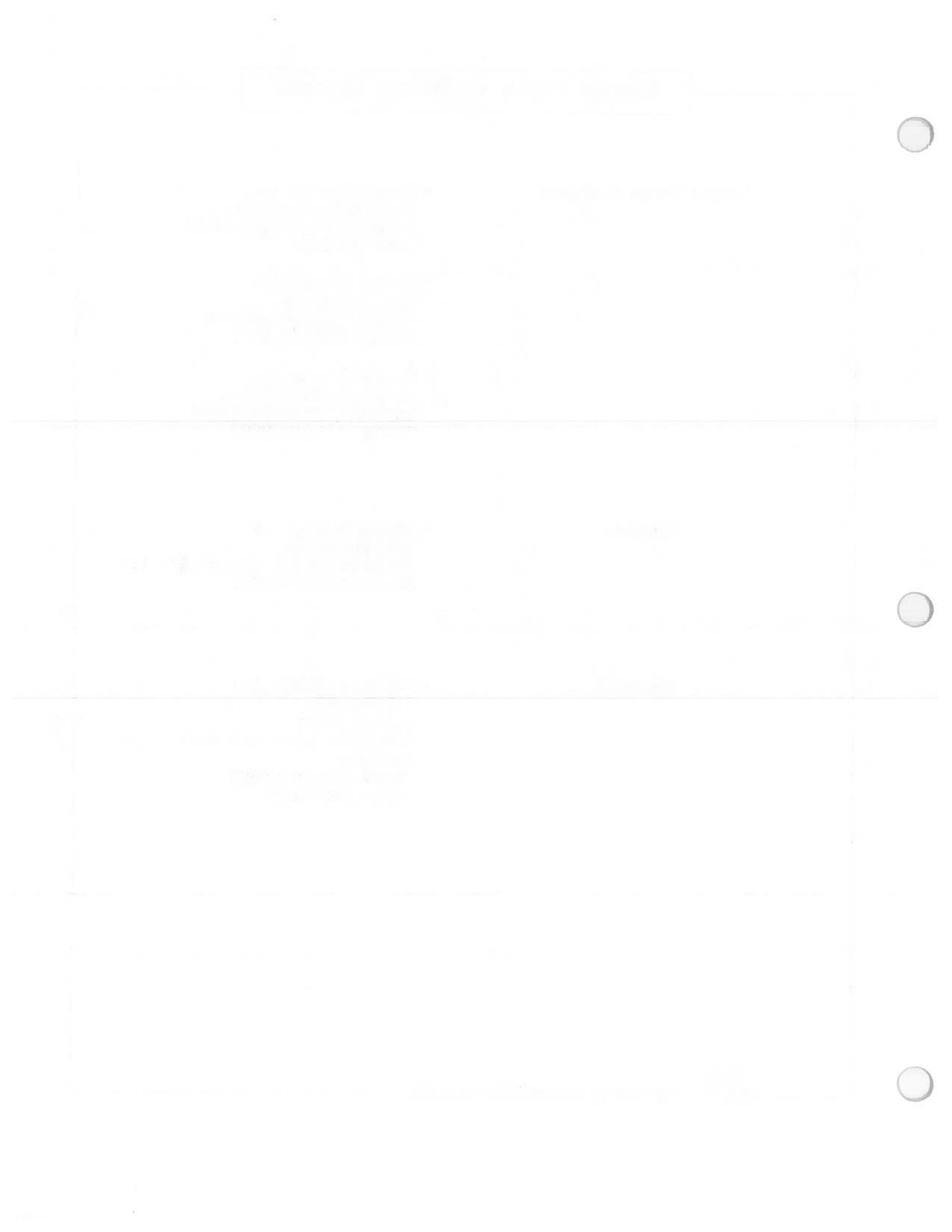
- Steiger Tractor, Ltd
802 58th St East
Saskatoon, Sask, Canada S7K 1V6
Phone: 306-242-6931

*Australia

- Steiger Australia, Ltd
P O Box 98
Audley Street
Woodville, North, S.A. 5012
Australia
Phone: (08) 268-8500
Telex: 79088435



STEIGER TRACTOR INC.



Steiger Tractor, Inc.

Supplement 37-071R6 (July, 1984)

For

BC III, C III & P III Service Parts Catalog

Models

All Series III ST Models

Attached is the first supplement to the Series III Model Service Parts Catalog 37-071R5, dated March, 1984.

This supplement contains the following new or revised pages:

Section 2:	2-23 thru 2-26
Section 3:	3-11 & 3-12
Section 4:	4-17 thru 4-20, 4-33, 4-34, 4-45, 4-46, 4-53, 4-54 & 4-57 thru 4-60
Section 5:	5-7 & 5-8
Section 6:	6-1, 6-2, 6-5 & 6-6
Section 8:	8-13 & 8-14
Section 10:	10-1 & 10-2

Please check to verify that all pages listed have been received.

All pages in this supplement are replacements for the existing pages which should be removed and discarded.

All pages which have the July, 1984 date and 37-071R6 number will have corrections or additions while those with the original March, 1984 date and 37-071R5 number do not and are necessary only as a front or back of those that do.

Additional copies of this supplement may be obtained from the Technical Communications Department at Steiger Tractor, Inc.

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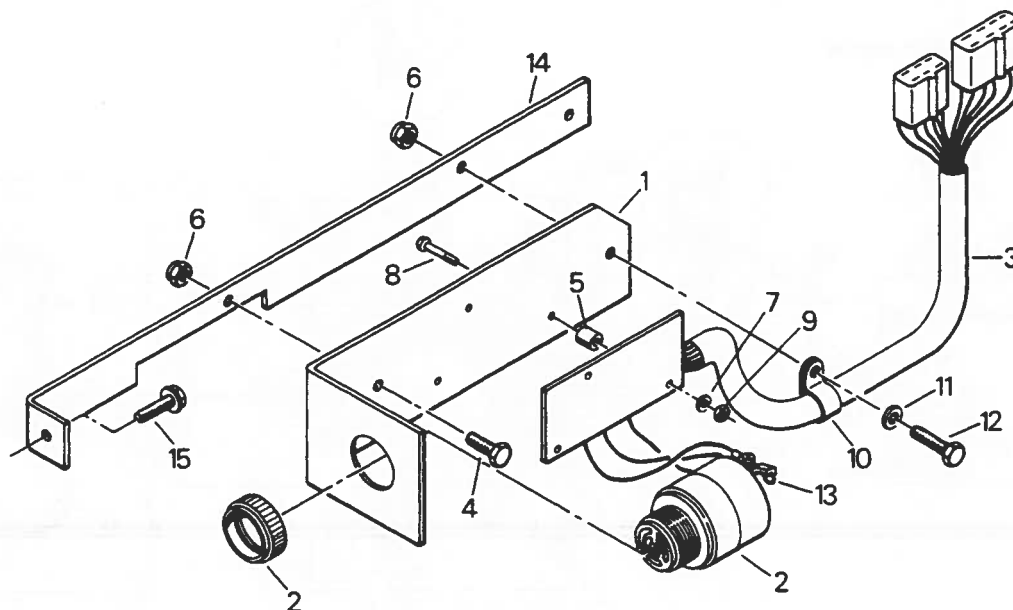
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**In July 83, a resistor was added to Ref. 3 and Ref. 13 was added to Ref. 2. These improvements can be added to earlier tractors if needed.*

Audio Alarm Assembly

Ref.	Part No.	Description	Qty.
1-13	20-1216T92	Audio Alarm Assy (20-1216T91)*	1
1	60-1360T2	Mounting Bracket	1
2	20-1215T91	Audio Alarm (B)	1
	20-1215T92	Audio Alarm (B) (incl Ref. 13)	
3	20-1211T92	Electronic Assy (20-1211T91)*	1
4	19-717	Capscrew	1
5	02-3440T1	Spacer	3
6	19-1081	Lock Nut	2
7	138522	Lock Washer	3

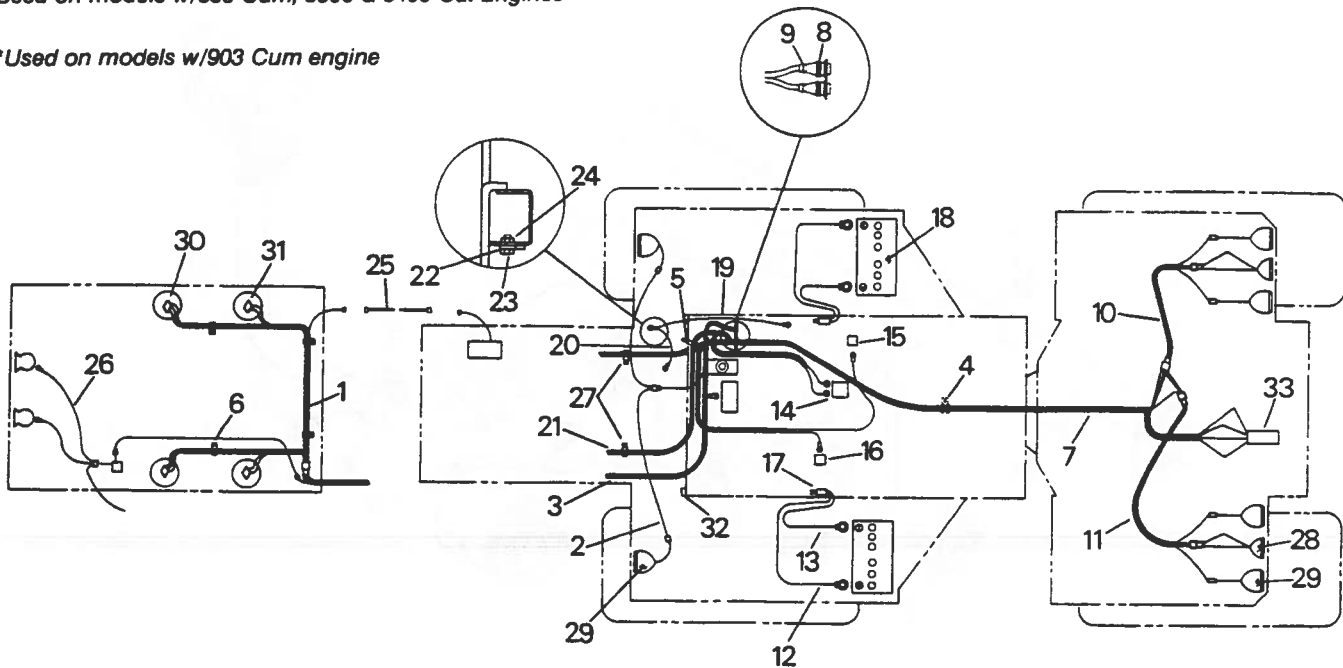
Ref.	Part No.	Description	Qty.
8	19-4874	Machine Screw	3
9	19-1034	Nut	3
10	22-1109	Clamp	1
11	19-105	Washer	1
12	19-001	Capscrew	1
13	20-1940T1	Varistor Assy	1
14	04-1003	Mounting Bracket	1
15	19-5391	Machine Screw	1

***NOTE:** Harnesses 22-750 & 22-754 were used on early tractors w/Receiver Drier mtd. on front frame. 01-8038 & 01-8615 were used later w/Drier mtd. on Cab Front.

Early Style (Bulkhead Connectors)

****Used on models w/855 Cum, 3306 & 3406 Cat Engines**

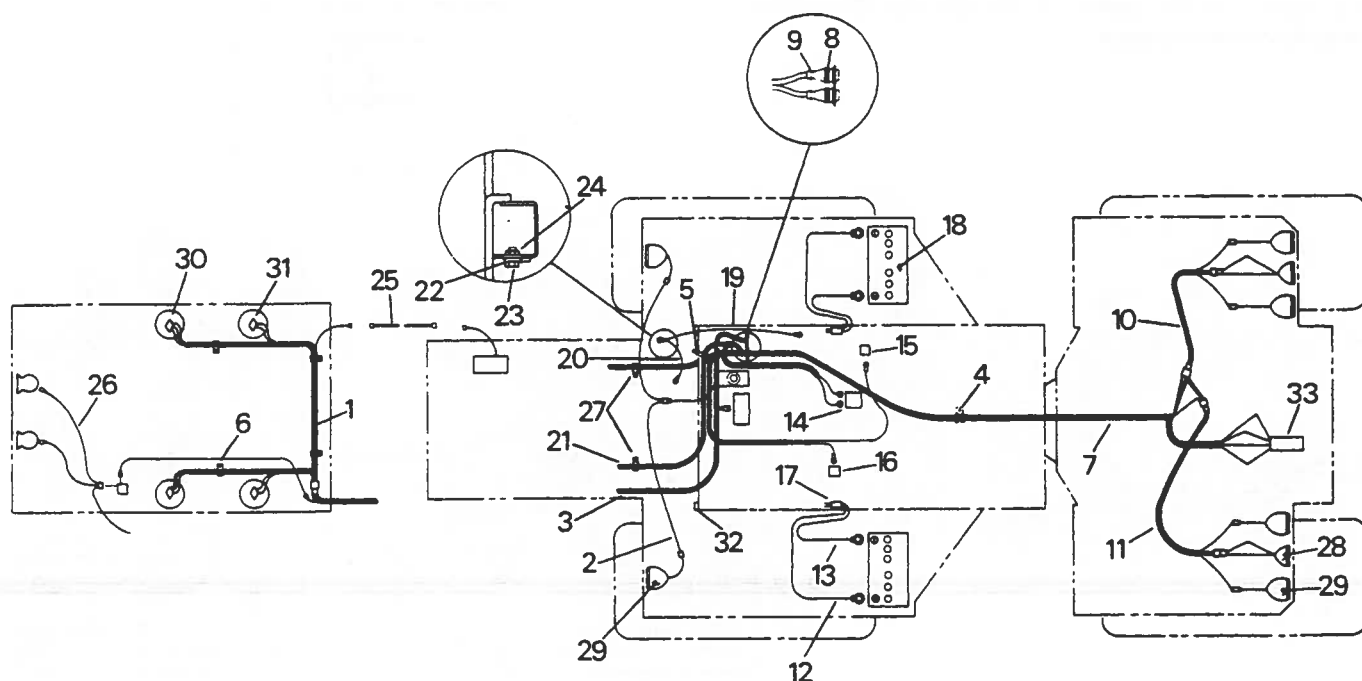
*****Used on models w/903 Cum engine**



Frame Electrical (D)

Ref.	Part No.	Description	Qty.
1	22-750	Harness, Hd Lts*	1
	01-8038	Harness, Hd Lts*	
2	22-805	Harness, 124" (Fender Lts)	1
	01-5508	Harness, 72" (will Repl 22-805 if rerouted a bit)	
3	22-754	Harness, Front* (incl 8 & 9)	1
	01-8615	Harness, Front* (D) (incl 8 & 9)	
4	22-631	Clamp	1
5	22-646	Clamp, (mt hdwe below)	1
	19-291	Lock Nut, 1/4 NC	1
	19-002	Capscrew, 1/4 NC x 1	1
6	32-069	Clamp	4
7	22-755	Harness, Rear (incl 8 & 9) (D)	1
8	22-779	Plug	2
	01-1633	Terminal, Female (14-16 Ga.)	AR
	01-4149	Terminal, Female (8-10 Ga.)	AR
9	22-781	Clamp, Plug Connector	2
10	22-751	Harness, RH Rear Lts	1
11	22-822	Harness, LH Rear Lts	1
12	22-811	Battery Cable, Pos**	1
	22-1073	Battery Cable, Pos***	1
13	22-810	Battery Cable, Neg**	1
	22-1074	Battery Cable, Neg***	1

Ref.	Part No.	Description	Qty.
14	22-228	Switch, Neutral Start (D) (mtd externally next to trans shift lever)	1
	01-4199	Switch, Neutral Start (D) (mtd in trans cover)	1
	01-4198	Gasket (for 01-4199)	1
15	22-682	Switch, Trans Temp	1
16	22-680	Switch, Trans Press. (20-1642T1) (E)	1
17	32-161	Clamp (mt hdwe below)	2
	19-107	Washer, 3/8	2
	19-078	Nut, 3/8 NC	2
18	22-032	Battery (D)	2
19	01-1211	Strap - Frame To Cab	1
20	01-1209	Strap - Frame To Engine	1
21		Harness, Engine (see pages 2-1 to 2-8)	
22	19-243	Washer, 3/8	1
23	19-017	Capscrew, 3/8 NC x 1	1
24	19-078	Nut, 3/8 NC	1
25	01-3774	Wire Assy (all except 855 Cum)	1
	01-3775	Wire Assy (855 Cum only)	1
26	01-1417	Wire Assy, Horn	1
27	22-637	Clamp	2



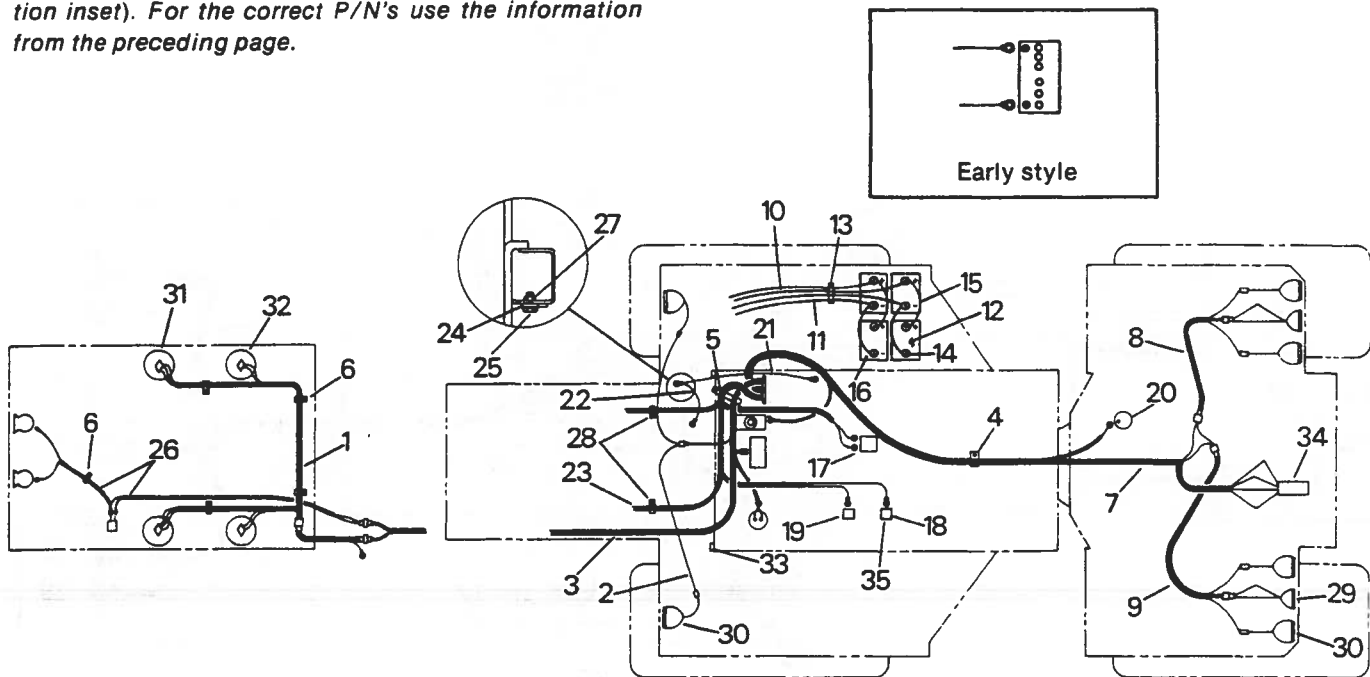
Frame Electrical

Ref.	Part No.	Description	Qty.
28	22-668	Tail Lt (see Page 2-28)	2
29	22-655	Field Lt (see Page 2-28)	6
30	22-657	Lamp Assy, Hi-Lo	2
		(see Page 2-28)	
31	22-661	Lamp Assy, Lo (see Page 2-28)	2
32	22-637	Clamp (on 3306 Cat only)	2
	22-631	Clamp (on 903 Cum only)	2
33	22-789	Impl Socket (mt parts below)	1
	22-790	Boot	1
	01-4819	Bracket	1
	19-007	Capscrew, 5/16 NC x 1	2
	19-116	Lockwasher, 5/16	2
	19-106	Washer, 5/16	2
	19-077	Nut, 5/16 NC	2
	19-675	Capscrew, 5/8 NC x 1-1/4	1
	19-120	Lockwasher, 5/8	1
	22-1143	Plug, Mating (for 22-789 opt.)	1
	19-605	Washer, Ext. Tooth Lock	1

Ref.	Part No.	Description	Qty.
34	22-632	Clamp (not shown) (to hold battery cables on 903 Cum)	1
	22-634	Clamp, W/L shaped brkt (not shown) (to hold battery cables on 903 Cum)	1

NOTE: On some early models with the Packard style connectors, the battery and battery cable arrangement shown on the preceding page was used (see illustration inset). For the correct P/N's use the information from the preceding page.

Later Style (Packard Connectors)



***NOTE:** SN Break for Cables is same as for Batteries.

*Use w/903 Cummins & 3406 Cat Engine

**Use w/855 Cummins & 3306 Cat Engine

*****NOTE:** 01-8029 can also be used up after 01-8029T1 is used (approx Feb, 82) if tractor does not have horn option or by modifying (Grounding) horn harness. 01-8029T1 can be used prior to change, but again some modification may be necessary if tractor has old style horn wiring.

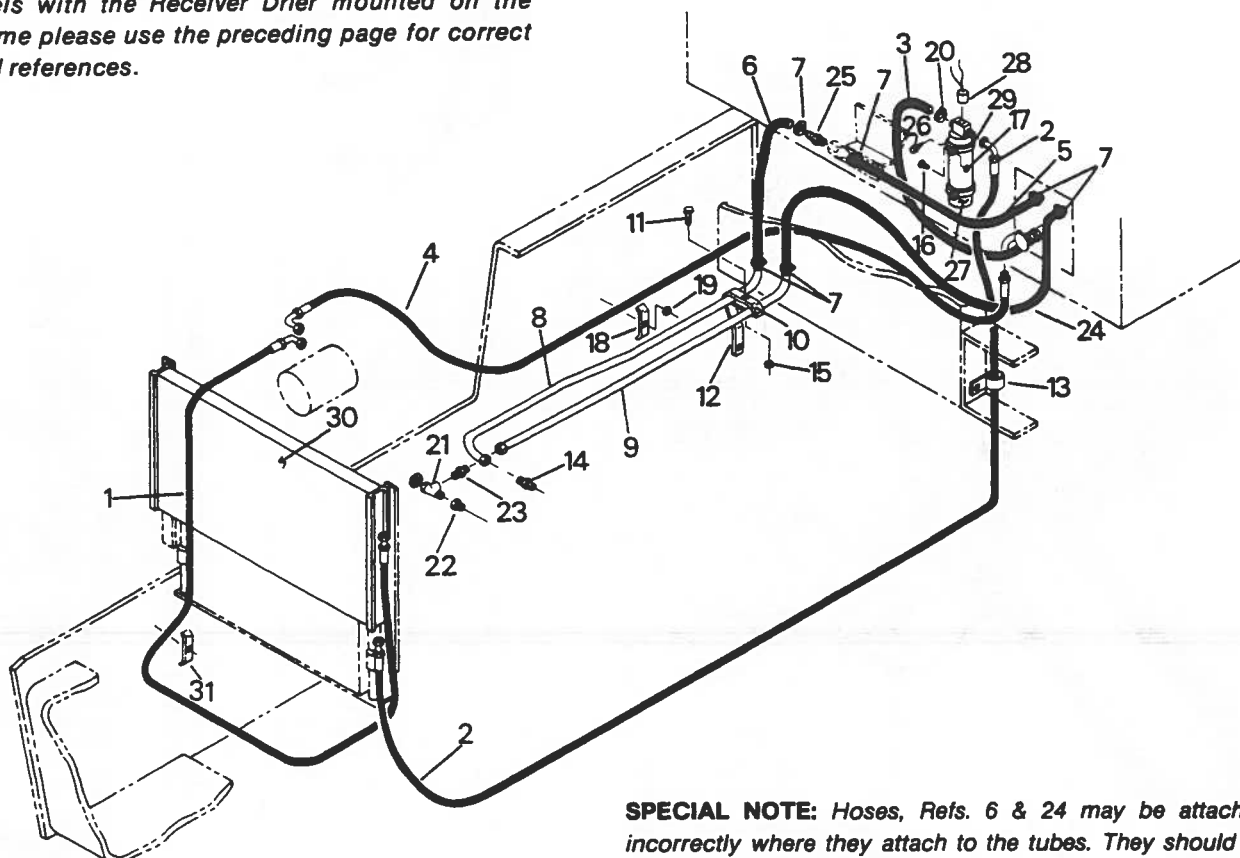
Frame Electrical (D)

Ref.	Part No.	Description	Qty.
1	01-8038	Head Lts Harness	1
2	01-5508	Front Fender Harness	1
3	01-8029	Front Frame Harness (D) (see Note***)	1
	01-8029T1	Front Frame Harness (C)	
	01-8029T2	Front Frame Harness (B)	
4	32-069	Clamp	2
5	22-646	Clamp (mt hdwe below)	1
	19-291	Lock Nut	1
	19-002	Capscrew	1
6	22-635	Clamp	4
7	01-8032	Rear Frame Harness (C)	1
	20-1427T1	Rear Frame Harness (C) (w/non swinging transfer case)	1
	20-1427T2	Rear Frame Harness (B)	
8	22-751	Rear Lts Harness RH	1
9	22-822	Rear Lts Harness LH	1
10	01-4964	Battery Cable* (Pos)	2
	20-1107T1	Battery Cable** (Pos)	1
11	01-4963	Battery Cable* (Neg)	2
	20-1106T1	Battery Cable** (Neg)	1

NOTE: See Page 2-27A for Batteries & Cables used **ASN 2716** (4-5-83)

Ref.	Part No.	Description	Qty.
12	22-613	Battery (D)	4
12A	22-032	Battery (Early Style)	1
13	32-343	Clamp	1
14	01-4210	Battery Terminal Nut	8
15	01-4967	Battery Cable, Pos to Pos	2
16	01-4968	Battery Cable, Neg to Neg	2
17	01-4199	Neutral Start Switch	1
	01-4198	Gasket for 01-4199	1
18	22-682	Trans Temp. Switch	1
19	22-680	Trans Press. Switch (20-1642T1) (E)	1
20	01-8353	Fuel Sender (see Rear Frame in Section 6)	1
21	01-1211	Ground Strap - Frame to Cab	1
22	01-1209	Ground Strap - Frame to Engine	1
23		Engine Harness (see Pages 2-1 to 2-8)	1
24	19-243	Washer	1
25	19-017	Capscrew	1
26	01-8579	Horn Harness (see Horn in Options, Sec 10)	1

on models with the Receiver Drier mounted on the Cab.
For models with the Receiver Drier mounted on the
Front Frame please use the preceding page for correct
P/N's and references.

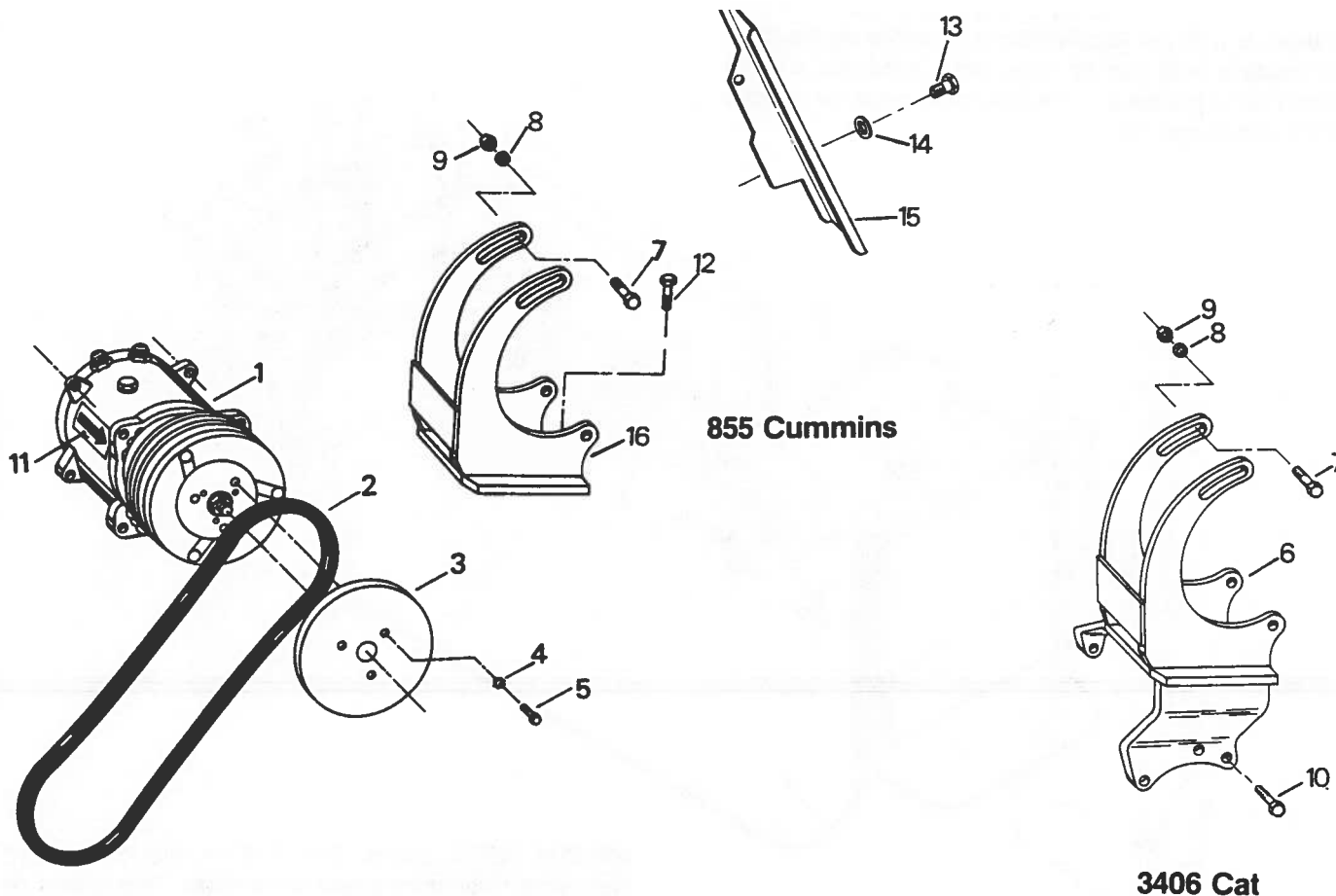


SPECIAL NOTE: Hoses, Refs. 6 & 24 may be attached incorrectly where they attach to the tubes. They should be attached as shown above.

A/C & Heater Plumbing - 3406 Cat (Later Style)

Ref.	Part No.	Description	Qty.
1	25-380	Hose	1
2	31-1350	Hose	1
3	31-1351	Hose	1
4	31-1297	Hose	1
5	31-1352	Hose	1
6	31-1067	Hose	1
7	25-285	Clamp	6
8	25-1026	Tube	1
9	01-6867	Tube	1
10	32-1000	Clamp	1
11	19-550	Capscrew, 1/4 NC x 1-1/2	1
12	25-1027	Bracket	1
13	22-632	Clamp	1
14	31-411	Connector	1
15	19-076	Nut, 1/4 NC	1
16	19-211	Capscrew, 1/4 NC x 1-1/4	2
17	19-5381	Nut, 1/4 NC	2

Ref.	Part No.	Description	Qty.
18	51-243	Clamp	2
19	19-078	Nut, 3/8 NC	2
20	25-048	Clamp	1
21	31-1275	Valve, Truck	1
22	31-013	Reducer	1
23	31-319	Connector	1
24	31-1295	Hose (31-1293) (E)	1
25	31-1296	Barbed Fitting	1
26	19-485	Screw, Tapping, 1/4 NC x 1/2	2
27	01-7778	Receiver Drier	1
28	25-1002	Switch (Low Pressure)	1
29	01-8563	Bracket	2
30	25-196	Condenser	1
	02-3370T1	Condenser (interchangeable w/25-196)	
31	51-243	Clamp	1

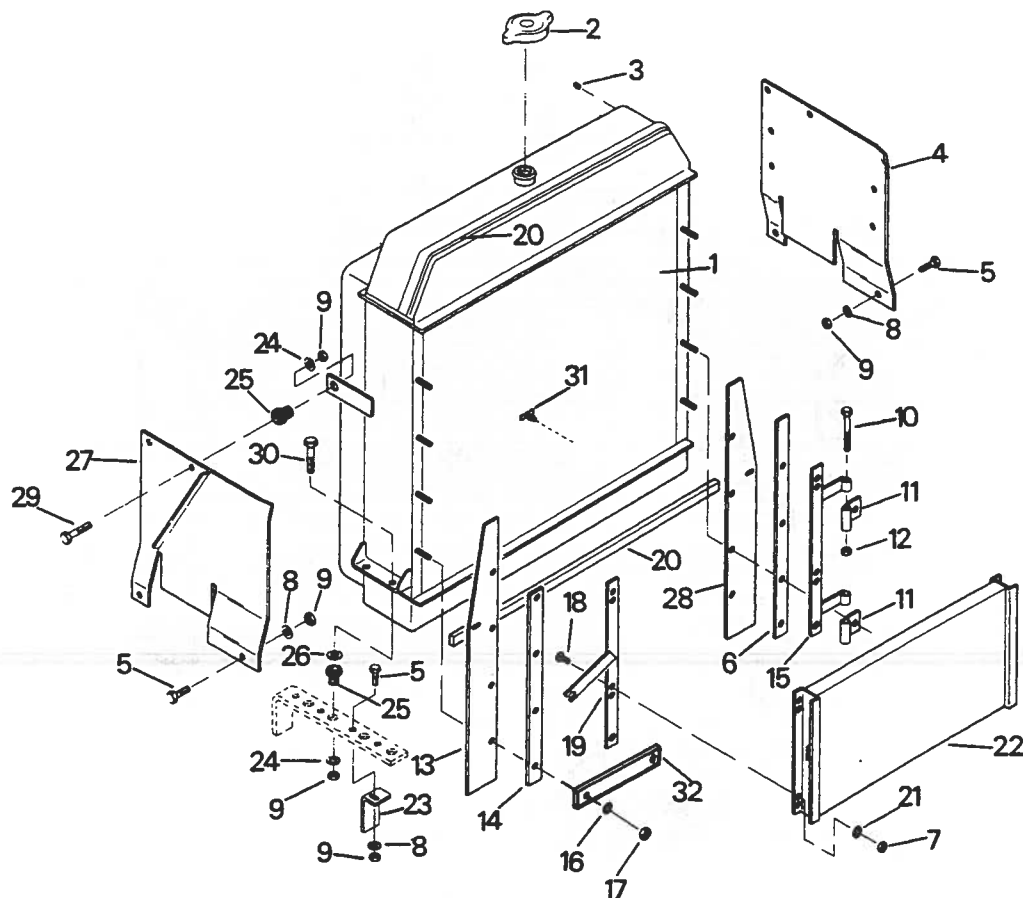


A/C Compressors & Mounts

855 Cummins & 3406 Cat

Ref.	Part No.	Description	Qty.
1		Compressor (see Page 3-15)	1
2	01-6864	Belt (855 Cum)	1
	01-2228	Belt (3406 Cat)	1
3	25-372	Dust Shield (3406 Cat)	1
	25-194	Dust Shield (855 Cummins)	1
4	19-890	Washer	3
5	19-891	Capscrew	3
6	25-1021	Compressor Mount (3406 Cat)	1
7	19-454	Capscrew	4

Ref.	Part No.	Description	Qty.
8	19-108	Washer	2
9	19-455	Nut	4
10	19-652	Capscrew	4
11	26-304	Compressor Decal	1
12	19-543	Capscrew	2
13	19-674	Capscrew	1
14	19-711	Washer	1
15	01-4614	Nip Point Shield	1
16	55-209	Compressor Mount (855 Cum)	1

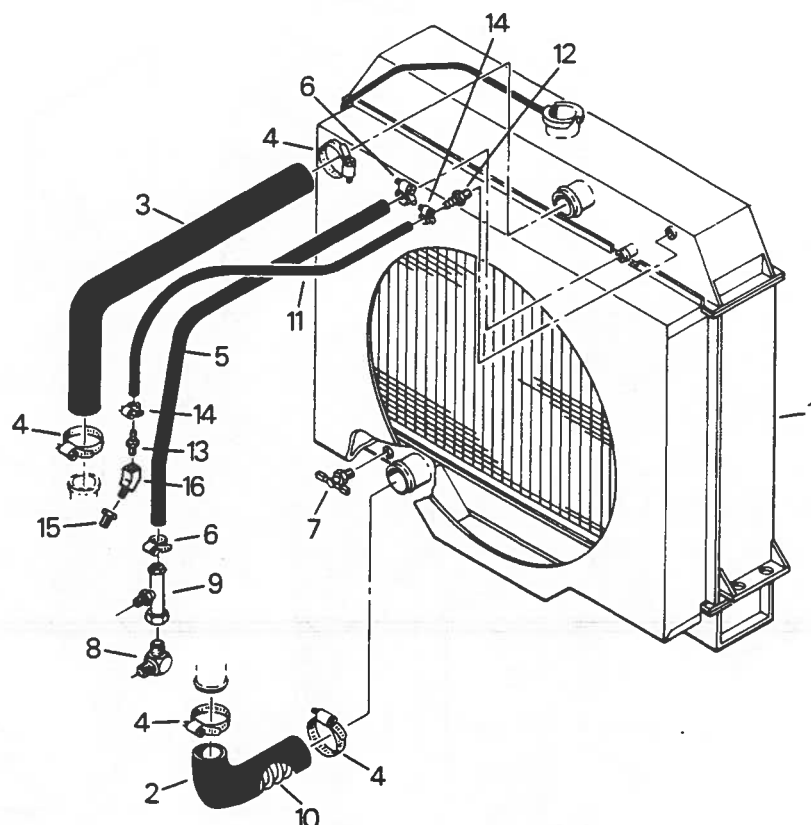


Radiator Mounting

All Except ST 220, 251 & Early ST 250 & 270

Ref.	Part No.	Description	Qty.
1		Radiator (see Page 4-18)	1
2	10-021	Radiator Cap	1
3	31-037	Pipe Plug (903 Engine only)	1
4	90-2354T1	Hinge Shield, LH (51-412) (B)	1
5	19-045	Capscrew, 1/2 NC x 1-1/2	5
6	51-475	Backing Strip, LH (903 & 3306)	1
	51-419	Backing Strip, LH (3406 & 855)	1
7	19-567	Nut, #10 NC	8
8	19-109	Washer, 1/2	3
9	19-081	Nut, 1/2 NC	11
10	19-133	Capscrew, 3/8 NC x 4	2
11	51-440	Hinge	2
12	19-087	Lock Nut, 3/8 NC	2
13	51-417	Chaff Shield, RH	1
14	51-475	Backing Strip, RH	1
15	51-444T1	Cooler Hinge (51-444) (E)	1
16	19-107	Washer, 3/8	8
17	19-078	Nut, 3/8 NC	8

Ref.	Part No.	Description	Qty.
18	19-233	Screw, #10 x 1/2	8
19	51-443T1	Cooler Latch (51-443) (B)	1
20	01-552	Foam Pad (Bottom one is used only w/903 & 3306)	2
21	19-603	Washer, #10	8
22		Condenser (see Sec. III)	1
23	51-476	Strip, Filler (903 only)	1
24	19-571	Washer	6
25	18-511	Rubber Mt.	6
26	19-806	Washer	4
27	51-409	Hinge Shield, RH	1
28	51-417	Chaff Shield, LH (903 & 3306)	1
	51-418	Chaff Shield, LH (3406 & 855)	1
29	19-046	Capscrew, 1/2 NC x 2	2
30	19-047	Capscrew, 1/2 NC x 2-1/2	4
31	31-157	Drain Cock	1
32	02-4566T1	Strap (not on early tractors but can be added)	1



Radiator & Hoses (Cat 3306 Engine)

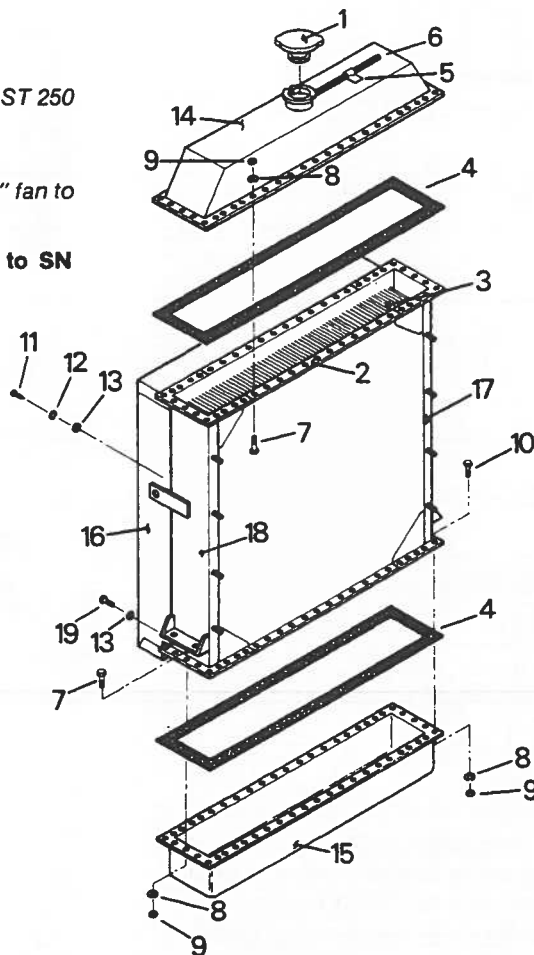
Ref.	Part No.	Description	Qty.
1		Radiator Assy (see Page 4-19)	1
2	32-325	Hose	1
3	32-326	Hose (D) (Early)	
	01-2631	Hose (D)	1
4	32-024	Clamp	4
5	31-1509	Shunt Hose	1
6	32-027	Clamp	2
7	31-157	Drain Cock	1
8	31-669	Elbow (w/o coolant exchange system)	1
	31-1575	Elbow (w/coolant exchange system)	

Ref.	Part No.	Description	Qty.
9	25-377	Shunt Tube	1
10	32-1008	Hose Spring	1
11	31-1079	Hose (cut to fit if needed)	1
12	31-314	Barbed Fitting	1
13	31-164	Barbed Fitting	1
14	32-029	Clamp	2
15	31-015	Reducer	1
16	31-207	Elbow	1

NOTE: For ST 220 & 251 order Kit # 35-1267T91 & for ST 250 (BSN 289) & ST 270 (BSN 375) order Kit # 35-1029.

NOTE: To convert tractors w/3306 engine from the 26" fan to the 30" fan, order Kit 35-1305T91.

CAUTION: This Kit will not work on tractors prior to SN 104-00330 (ST 250) or 105-00544, (ST 270).

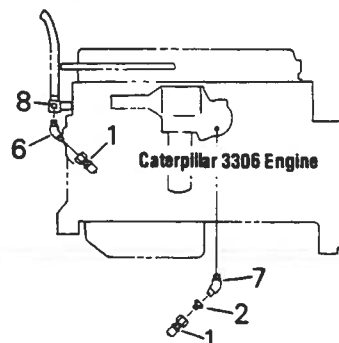
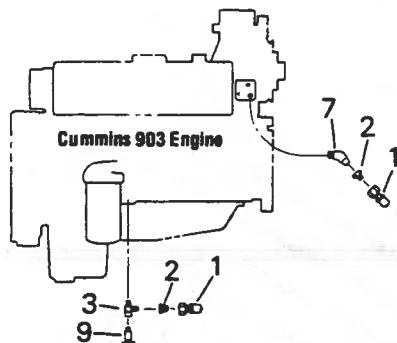
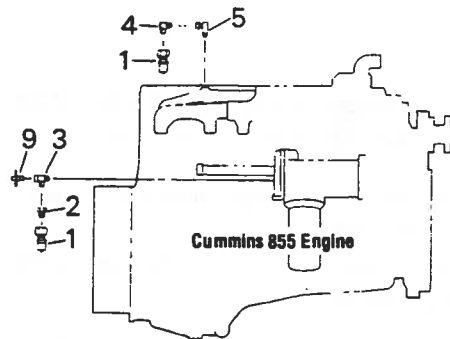
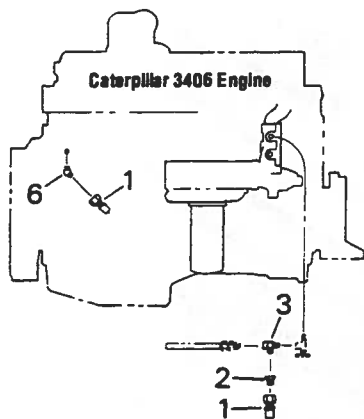


Radiators & Parts

All Except ST 220, ST 251, & Early ST 250 & ST 270*

Ref.	Part No.	Description	Qty.
1-19	01-7039T91	Radiator (3306 w/26" Fan)	1
	90-2343T91	Radiator (3306 w/30" Fan)	1
	01-7036T91	Radiator (855)	1
	01-7037T91	Radiator (903)	1
	01-7038T91	Radiator (3406)	1
1	10-021	Cap	1
2	90-1530T1	Header Bar (01-2600) (B)	4
3	01-2589	Core	1
4	01-2599	Gasket	2
5	31-2173	Clip	3
6	31-1260	Overflow Hose	1
7	19-007	Capscrew, 5/16 NC x 1	92
8	19-116	Lock Washer, 5/16	100
9	19-077	Nut, 5/16 NC	100
10	19-234	Capscrew, 5/16 NC x 1-1/4	8
11	19-958	Tap Screw, 1/4 NC x 3/4	10
12	19-115	Lock Washer, 1/4	10
13	19-223	Washer, 1/4	12

Ref.	Part No.	Description	Qty.
14	01-6979	Top Tank (3306 w/26" Fan)	1
	90-2342T1	Top Tank (3306 w/30" Fan)	
	01-2586	Top Tank (855)	
	01-2587	Top Tank (903)	
	01-2588	Top Tank (3406)	
15	01-6973	Bottom Tank (3306)	1
	01-2590	Bottom Tank (855)	
	01-2591	Bottom Tank (903)	
	01-2592	Bottom Tank (3406)	
16	01-7005	Shroud (3306 w/26" Fan)	1
	90-2340T2	Shroud (3306 w/30" Fan)	
	01-2597	Shroud (855 & 903)	
	01-2598	Shroud (3406)	
17	01-2595T1	Side Member, LH (3306 & 903)	1
	01-2596T1	Side Member, LH (855 & 3406)	
18	01-2593T1	Side Member, RH (3306 & 903)	1
	01-2594T1	Side Member, RH (855 & 3406)	
19	19-717	Capscrew, 1/4 NC x 5/8	2



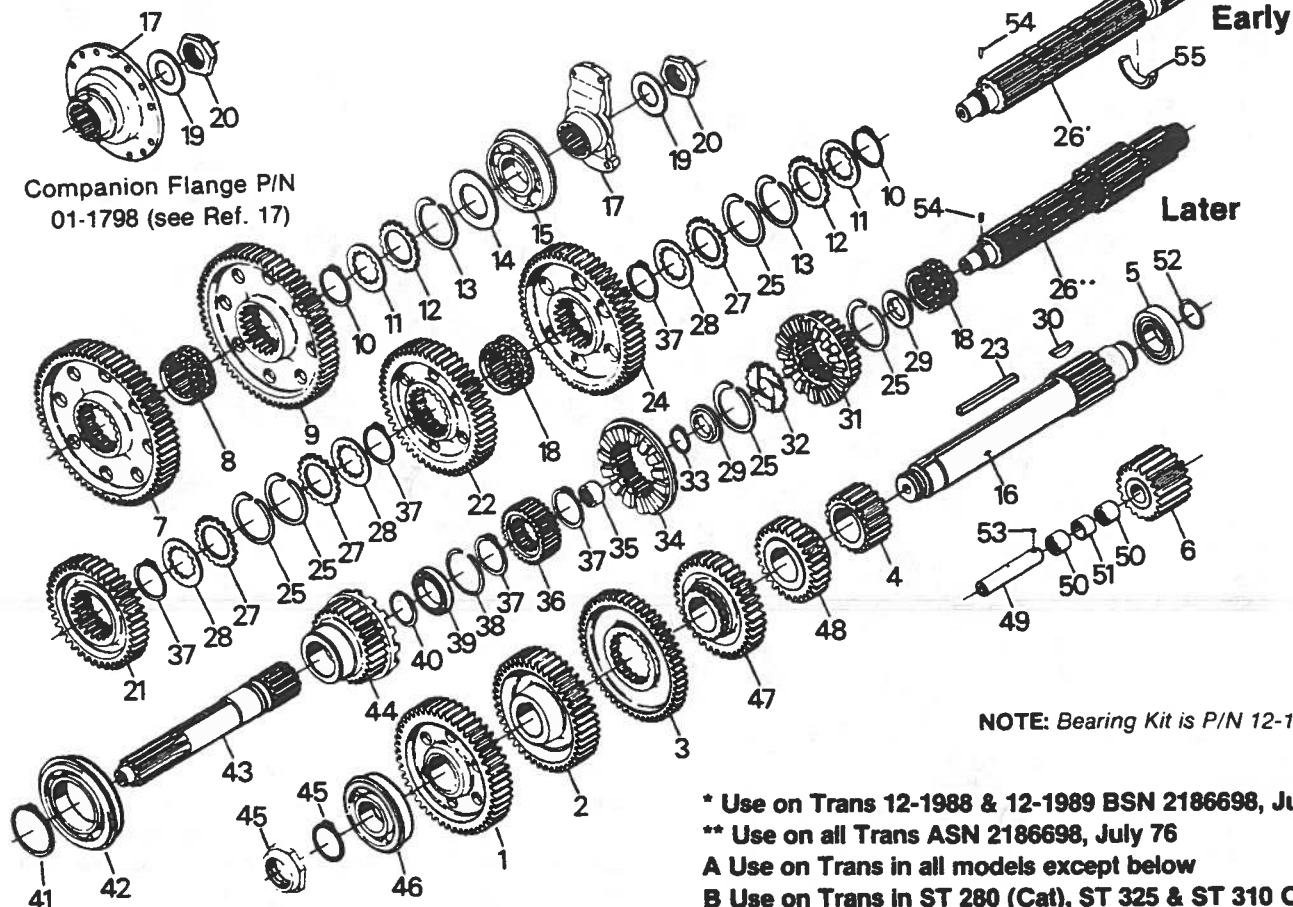
NOTE: Engine Coolant Coupler Kit # 35-1298T92 can be purchased so as to enable the coolant exchange system in these engines to be connected to another engine. The kit includes four 31-522 adapters, four 50-1173T1 couplers, two 50-1172T1 nipples, two 31-2180 hoses, two 31-178 & instructions. This kit replaces 35-1298T91 which did not have hoses or extra adapters and couplers.

NOTE: Discontinued Feb 83

Engine Coolant Coupler System

Ref.	Part No.	Description	Qty.
1	50-1172T1	Nipple	2
2	31-178	Reducer	2
3	31-1586	Adapter	1
4	31-1585	Elbow	1
5	31-381	Adapter	1

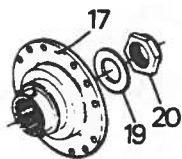
Ref.	Part No.	Description	Qty.
6	31-1573	Elbow	1
7	31-1574	Elbow	1
8	31-1575	Elbow	1
9	NSS	Drain Cock (supplied with engine)	1



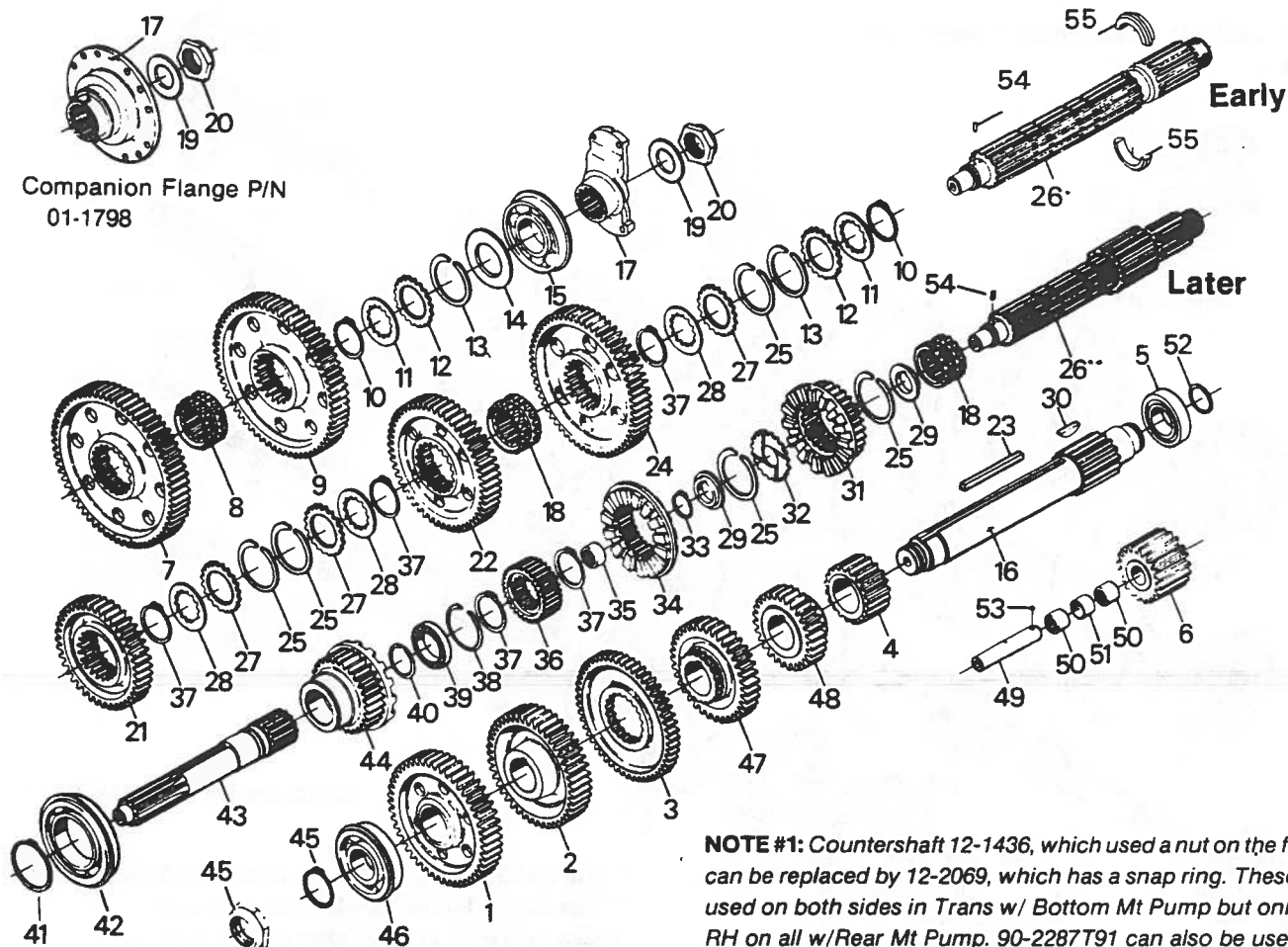
Transmission Gears & Related Parts

Ref.	Part No.	Description	Qty.
1A	12-1438	Gear, C/S Lo Splitter	2
1B	01-1569	Gear, C/S Lo Splitter	2
2A	12-1440	Gear, C/S Hi Splitter	2
2B	01-1568	Gear, C/S Hi Splitter	2
3	12-1441	Gear, PTO Drive (w/Bottom Mt. Pump)	1
3 & 47	12-2052	Gear Kit, LH Countershaft (w/Bottom Mt. Pump)	1
4	12-1445	Gear, C/S (3rd & 4th)	2
5	12-1447	Bearing (or use following)	2
	90-2178T91	Bearing Kit (incl following)	2
	90-2284T1	Bearing	1
	90-2285T1	Spacer (use ahead of Brg.)	1
6	12-1451	Gear, Reverse Idler	2
7	12-1426	Gear, M/S (1st & 2nd)*	1
	12-2067	Gear, M/S (1st & 2nd)**	1
8	12-1418	Collar, M/S (1st, 2nd & Rev)*	1
	12-2070	Collar, M/S (1st, 2nd & Rev)**	1
9	12-1427	Gear, M/S (Rev)*	1
	12-2068	Gear, M/S (Rev)**	1
10	12-1420	Snap Ring*	2
	12-2062	Snap Ring**	2
11	12-1421	Thrust Washer*	2
	12-2059	Thrust Washer**	2

Ref.	Part No.	Description	Qty.
12	12-1422	Thrust Washer*	2
	12-2060	Thrust Washer**	2
13	12-1417	Snap Ring*	2
	12-2061	Snap Ring**	2
14	12-1429	Thrust Washer*	1
	12-2057	Thrust Washer**	1
15	12-1430	Bearing, M/S Rear	1
16	12-2069	Countershaft (Repl 12-1436) (B) (Note 1)	1
	90-2287T91	Countershaft (LH w/Rear Mt Pump) (Note 1)	1
17	01-1798	Flange (w/1 Speed Box)	1
	60-371	Yoke (w/2 Speed Box)	1
18	12-1418	Collar, M/S	2
19	12-1434	Washer	1
20	12-2056	Nut**	1
	12-1435	Nut*	1
21	12-1419	Gear, M/S (7th & 8th)	1
22	12-1423	Gear, M/S (5th & 6th)	1
23	12-2065	Key (Repl 12-1439 & 12-1444) (B)	2
24	12-1425	Gear, M/S (3rd & 4th)	1
25	12-1417	Snap Ring	5



Companion Flange P/N
01-1798

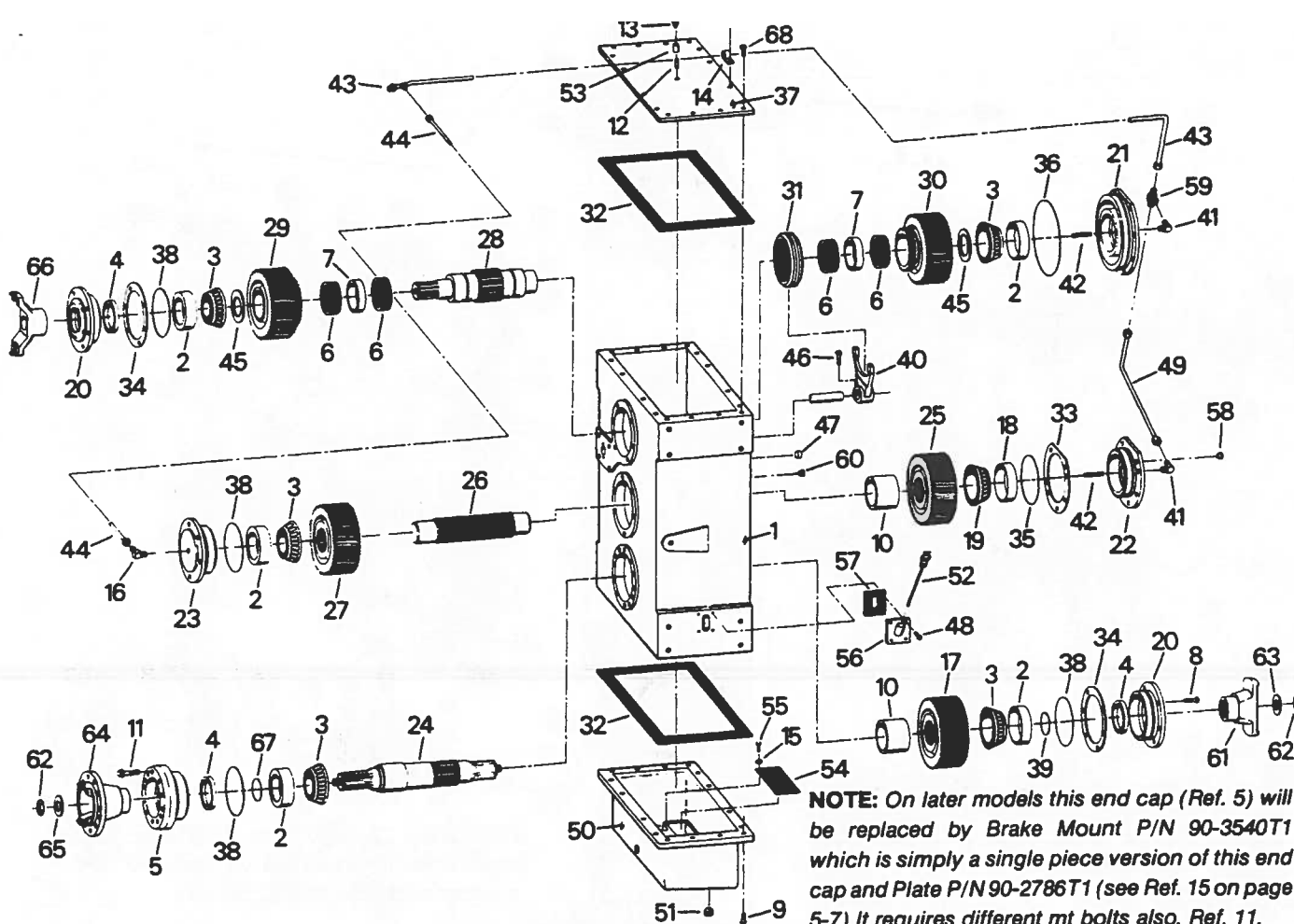


NOTE #1: Countershaft 12-1436, which used a nut on the front, can be replaced by 12-2069, which has a snap ring. These are used on both sides in Trans w/ Bottom Mt Pump but only on RH on all w/Rear Mt Pump. 90-2287T91 can also be used on RH side as only difference is adapter hole for pump.

Transmission Gears & Related Parts

Ref.	Part No.	Description	Qty.
26	12-1411	Mainshaft*	1
	12-2064	Mainshaft**	1
27	12-1422	Thrust Washer*	3
	12-2058	Thrust Washer**	3
28	12-1421	Thrust Washer	3
29	12-1414	Thrust Washer	2
30	12-1446	Key	2
31	12-1412	Gear, M/S (9th & 10th)	1
32	12-1416	Thrust Washer	1
33	12-1413	Snap Ring	1
34	12-1408	Collar, Splitter	1
35	12-1407	Bearing, Input Shaft Pocket	1
36	12-1409	Gear, Clutch	1
37	12-1420	Snap Ring	5
38	12-1406	Snap Ring	1
39	12-1405	Bearing, Input Shaft, Rear	1
40	12-1404	Snap Ring	1
41	12-1402	Snap Ring	1
42	12-1403	Bearing, Input Shaft, Front	1
43	13-195	Input Shaft (2")	1
		(3406, 855 & 903 w/350)	
	12-1400	Input Shaft (1-3/4)	
		(3306 & 903 w/320)	

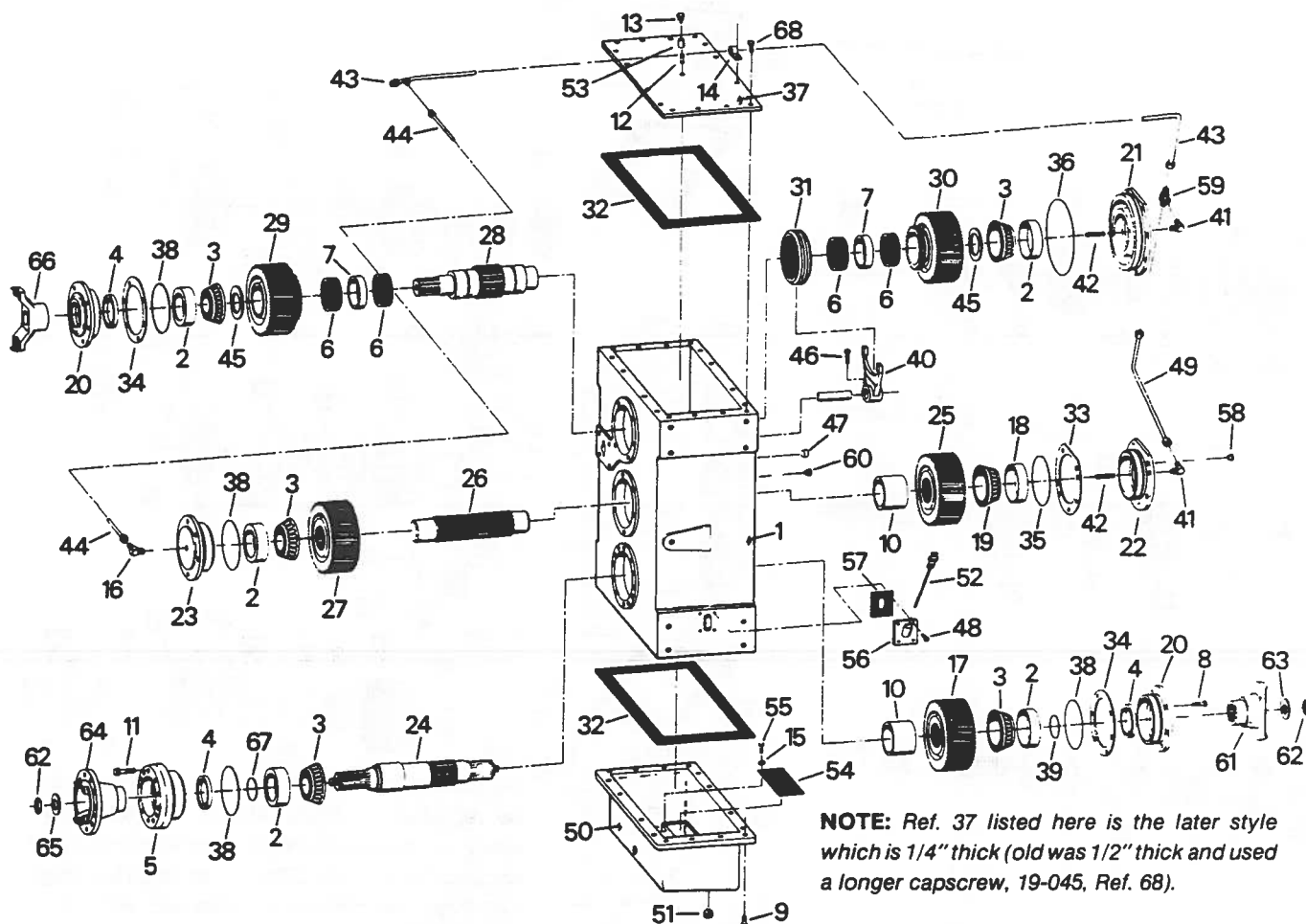
Ref.	Part No.	Description	Qty.
44A	12-1401	Drive Gear (26 tooth)	1
44B	01-1567	Drive Gear (36 tooth)	
45	12-1435	Nut	2
	12-2063	Snap Ring	2
46	12-1437	Bearing, C/S (Front)	2
47	12-1442	Gear, LH C/S (7th & 8th)	1
		(w/Bottom Mt Pump)	
	12-2066	Gear, C/S (7th & 8th)	1
		(RH w/Bottom Mt Pump,	
		Both w/Rear Mt)	
48	12-1443	Gear, C/S (5th & 6th)	2
49	12-1449	Shaft, Rev. Idler	2
50	12-1452	Bearing, Rev. Idler Shaft	4
51	12-1453	Spacer, Bearing	2
52	12-1448	Snap Ring (not needed)	2
53	12-1450	Ball, Rev. Idler Shaft	2
54	12-1415	Pin	2
55	12-1428	Split Ring* Main Shaft	1



Transfer Case Assembly

Stationary Style (ASN 2000)

Ref.	Part No.	Description	Qty.	Ref.	Part No.	Description	Qty.
1-69	90-2775T94	Transfer Case Assy (90-2775T93 - Code C) (also incl Refs. 1-22, 25 & 32 on preceding page)	1	12	31-635	Pipe Nipple	1
1	90-4321T1	Transfer Case Housing	1	13	31-303	Breather	1
2	01-2255	Bearing Cup	5	14	32-310	Clamp	1
3	01-2256	Bearing Cone	5	15	19-107	Washer (not used with Sump P/N 90-3967T1)	4
4	14-153	Seal	3	16	31-599	Elbow	1
5	90-3488T1	End Cap (C) (shown above)	1	17	01-2268	Gear	1
	90-3540T1	Brake Mount (C) (see Note)		18	01-3364	Bearing Cup	1
6	01-2273	Needle Bearing	4	19	01-3365	Bearing Cone	1
7	01-2274	Bearing Spacer	2	20	01-2262	End Cap	2
8	19-044	Capscrew	37	21	01-2264	End Cap	1
9	19-045	Capscrew (used with Sump P/N 01-3656)	14	22	01-9070	End Cap	1
	19-043	Capscrew (used with Sump P/N 90-3967T1)		23	90-1841T1	End Cap	1
10	01-2285	Gear Spacer	2	24	90-1865T1	Output Shaft	1
11	19-6006	Flanged Capscrew (used with End Cap P/N 90-3488T1)	12	25	01-2291	Gear	1
	9430876	Capscrew (used with Brake Mount P/N 90-3540T1)		26	90-1817T1	Middle Shaft	1
				27	01-2282	Gear	1
				28	01-2307	Input Shaft	1
				29	01-2316	Gear	1
				30	01-2310	Gear	1
				31	01-2258	Clutch	1
				32	01-3355	Gasket (qty 2 on early models)	1



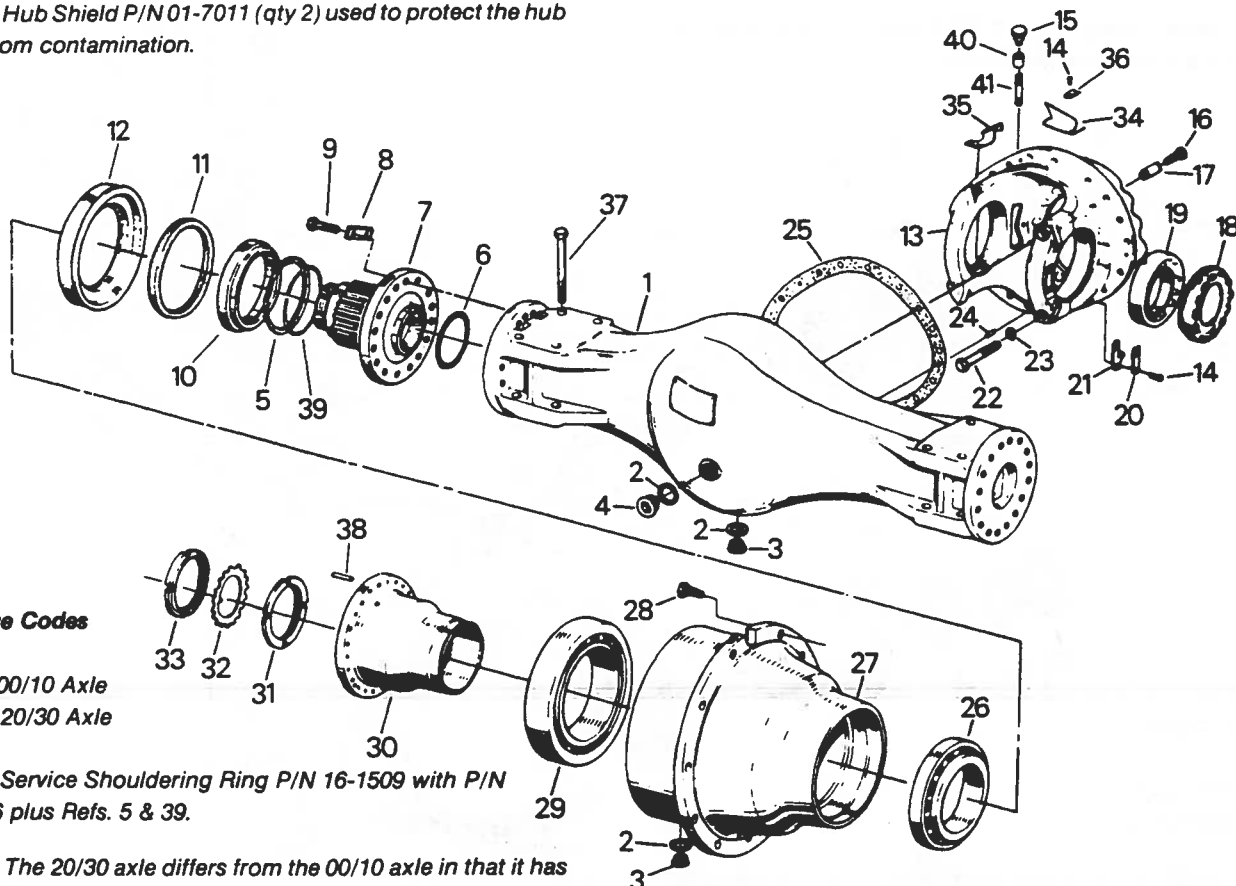
Transfer Case Assembly

Stationary Style (ASN 2000)

Ref.	Part No.	Description	Qty.
33	01-3358T1	Shim (.005)	1
	01-3359T1	Shim (.007)	1
	01-3360T1	Shim (.020)	1
34	01-2296	Shim (.005)	2
	01-2297	Shim (.007)	2
	01-2298	Shim (.020)	2
35	01-3363	O-Ring	1
36	01-2270	O-Ring	1
37	90-4152T1	Top Plate	1
38	01-2271	O-Ring	4
39	01-2269	O-Ring	1
40	01-2550	Shifter Fork	1
41	31-474	Elbow	2
42	01-2546	Pipe Nipple	2
43	01-6271	Tube	1
44	90-2665T1	Tube	1
45	01-2290	Washer	2
46	19-477	Capscrew	1
47	31-090	Expansion Plug	1
48	19-017	Capscrew	4
49	01-8616	Tube	1
50	01-3656	Oil Sump (B) (shown above)	1
	90-3967T1	Oil Sump (B) (Service)	

Ref.	Part No.	Description	Qty.
51	31-1054	Magnetic Plug	1
52	01-3683	Dipstick	1
53	144069	Coupling	1
54	01-3777	Screen (not used with Sump P/N 90-3967T1)	1
55	19-5394	Capscrew (not used with Sump P/N 90-3967T1)	4
56	01-3799	Fill Tube	1
57	01-3810	Gasket	1
58	31-1255	Caplug	8
59	31-492	Tee	1
60	31-336	Plug (8) (early models only)	1
61	01-2209	Yoke	1
62	14-059	Nut	2
63	19-163	Washer	1
64	90-1816T1	Brake Yoke	1
65	19-5796	Washer	1
66	01-6992T1	Yoke (01-6992) (B)	1
67	90-1869T1	O-Ring	1
68	19-043	Capscrew	14
69	01-1055	RTV Sealant (not shown)	AR

NOTE: Hub Shield P/N 01-7011 (qty 2) used to protect the hub seals from contamination.



Usage Codes

*K598.00/10 Axle

**K598.20/30 Axle

NOTE: Service Shouldering Ring P/N 16-1509 with P/N 01-8316 plus Refs. 5 & 39.

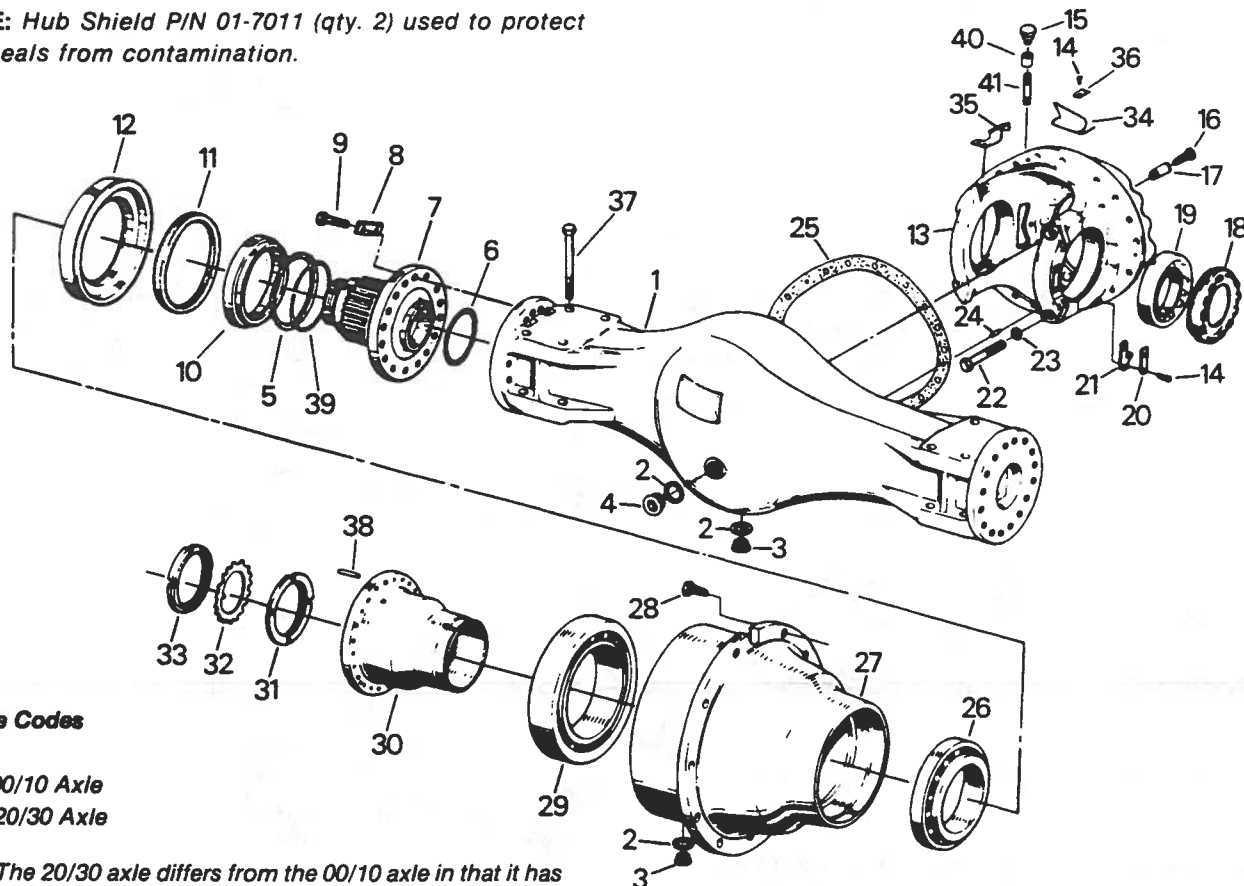
NOTE: The 20/30 axle differs from the 00/10 axle in that it has Refs. 5 & 39 which the 00/10 used in only the very latest and it has the 5 gear inner planetary whereas the 00/10 only has 3 gears.

NOTE: Some early 00/10 axles may have had a Baffle Plate in the ends of the axle next to item 6, these are not necessary to replace.

Axle Assembly K-598 00/10 & 20/30

Ref.	Part No.	Description	Qty.	Ref.	Part No.	Description	Qty.
	16-797	Axle Assy (Front)*	1	10	16-1509	Shouldering Ring*	2
	16-798	Axle Assy (Rear)*				(see Note)	
	01-6168	Axle Assy (Front)**			01-8316	Shouldering Ring**	
	01-6167	Axle Assy (Rear)**				(later 00/10 axles also)	
	01-8315	Axle Sub-Assy (incl Refs. 1-4, 6-9, 24 & 31-33)	1	11	16-1510	Seal	2
1	16-1500	Axle Housing	1	12	16-1511	Sealing Case	2
2	16-1501	Washer	4	13	16-1512	Diff Housing Assy	1
3	16-1502	Magnetic Plug (straight, used w/Ref. 2)	3		16-1513	Dowel (not shown)	2
	90-4484T1	Magnetic Plug (tapered, used w/o Ref. 2)				(incl with Ref. 13)	
4	16-1503	Plug (straight, used w/Ref. 2)	1	14	16-1186	Capscrew	6
	90-2523T1	Plug (tapered, used w/o Ref. 2)		15	01-1359	Vent	1
5	01-8670	Sealing Ring (on later 00/10 & all 20/30 axles)	2	16	16-1519	Capscrew	18
6	16-1505	O-Ring	2	17	16-1520	Locking Tab	12
7	16-1506	Axle Stub	2		16-1521	Locking Tab	6
8	16-1507	Locking Tab	16	18	16-1522	Adjusting Ring	2
9	16-1508	Capscrew	32	19	16-1523	Tapered Roller Bearing	2
				20	16-1524	Locking Tab	2
				21	16-1525	Nose-Type Locking Tab	2
					16-1526	Nose-Type Locking Tab	
					16-1527	Nose-Type Locking Tab	
				22	16-1528	Capscrew	2

NOTE: Hub Shield P/N 01-7011 (qty. 2) used to protect hub seals from contamination.



Usage Codes

*K598.00/10 Axle

**K598.20/30 Axle

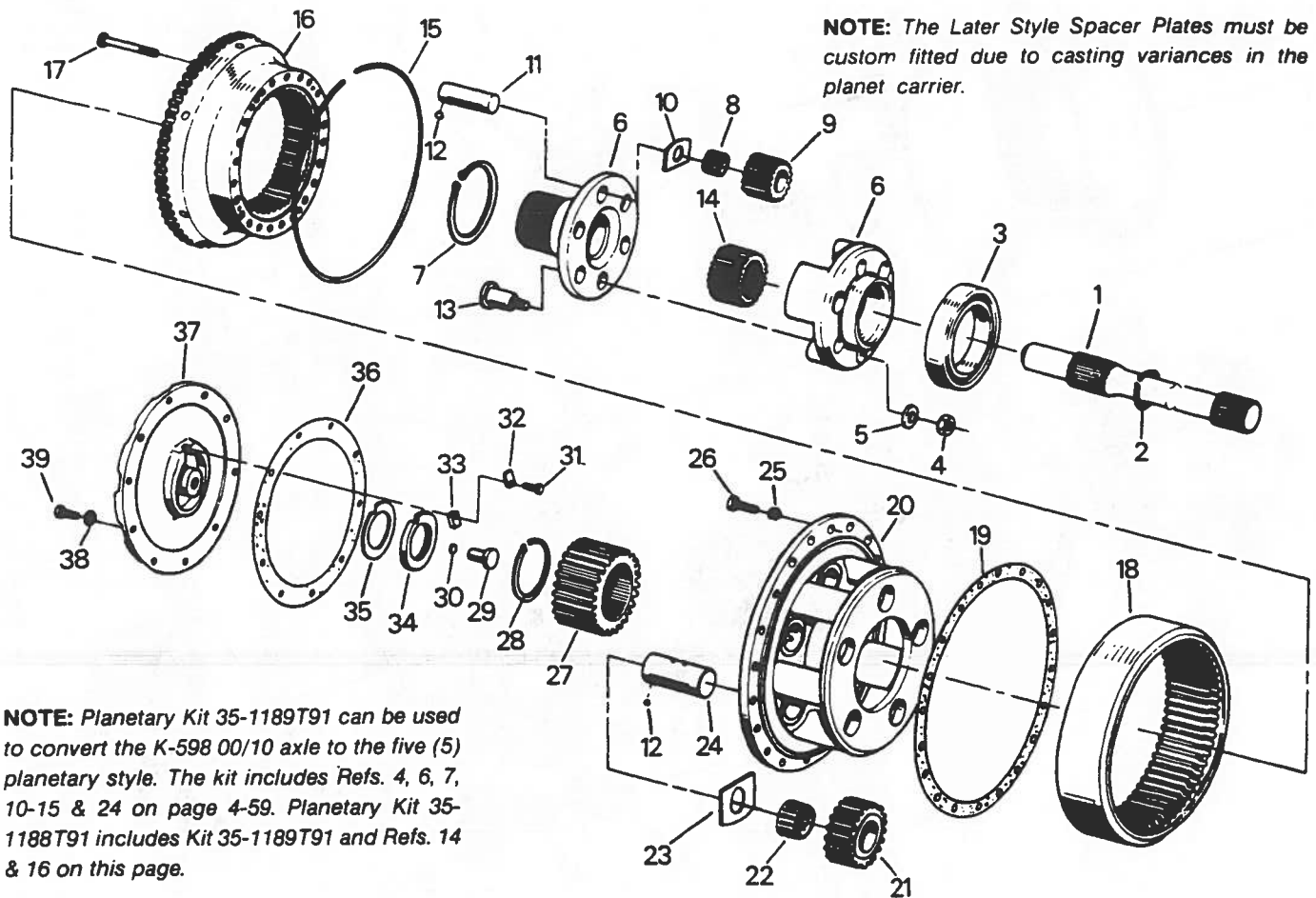
NOTE: The 20/30 axle differs from the 00/10 axle in that it has items 5 & 39 which the 00/10 used in only the very latest, and it has the five gear inner planetary where the other has 3 gears.

Axle Assembly

K-598 00/10 & 20/30

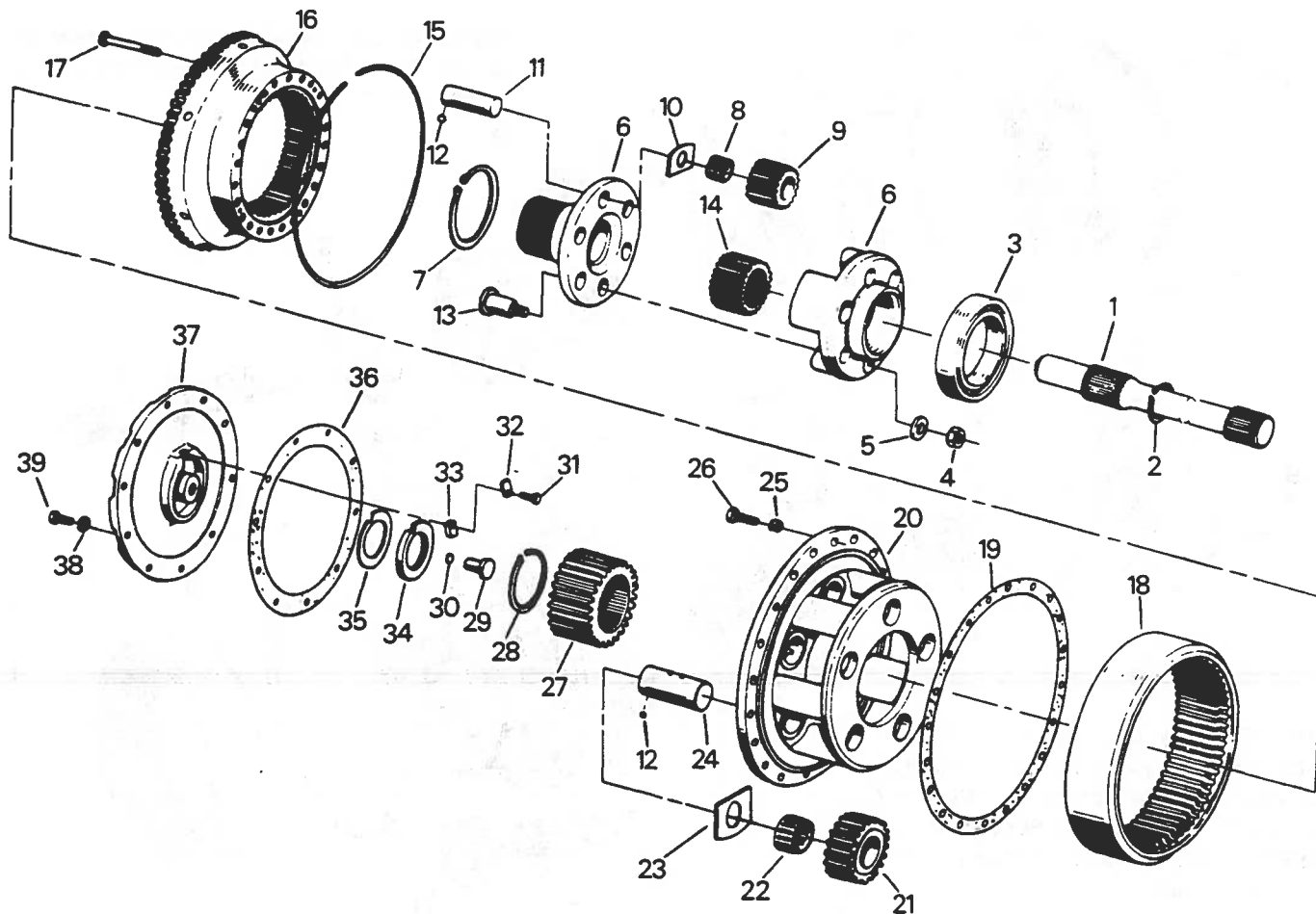
Ref.	Part No.	Description	Qty.
23	16-1529	Lock Washer	2
24	16-1530	Dowel Pin	1
25	16-1531	Gasket	1
26	16-1532	Tapered Roller Bearing	2
27	16-1533T91	Wheel Hub (incl Refs. 2 & 3)	2
28	223470	Lug Bolt	20
	19-2975	Washer (not shown) (used with above Lug Bolt)	20
29	16-1535	Tapered Roller Bearing	2
30	16-1536	Ring Gear Support II*	2
	01-8318	Ring Gear Support II**	
31	16-1537	Shaft End I Nut	2
32	16-1538	Locking Washer	2

Ref.	Part No.	Description	Qty.
33	16-1539	Shaft End II Nut	2
34	16-1515	Oil Baffling Plate (Front)	1
	16-1540	Oil Baffling Plate (Rear)	
35	16-1184	Baffle Plate (Front)	1
	16-1541	Baffle Plate (Rear)	
36	16-1542	Locking Tab	2
37	19-815	Axle Bolt	8
	19-859	Nut (not shown) (used with above Axle Bolt)	8
38	16-1514	Dowel Pin	8
39	01-8317	Circlip (on later 00/10 & all 20/30 axles)	2
40	31-605	Coupling	1
41	31-1841	Nipple	1



K-598.00/10 Planetary Assembly

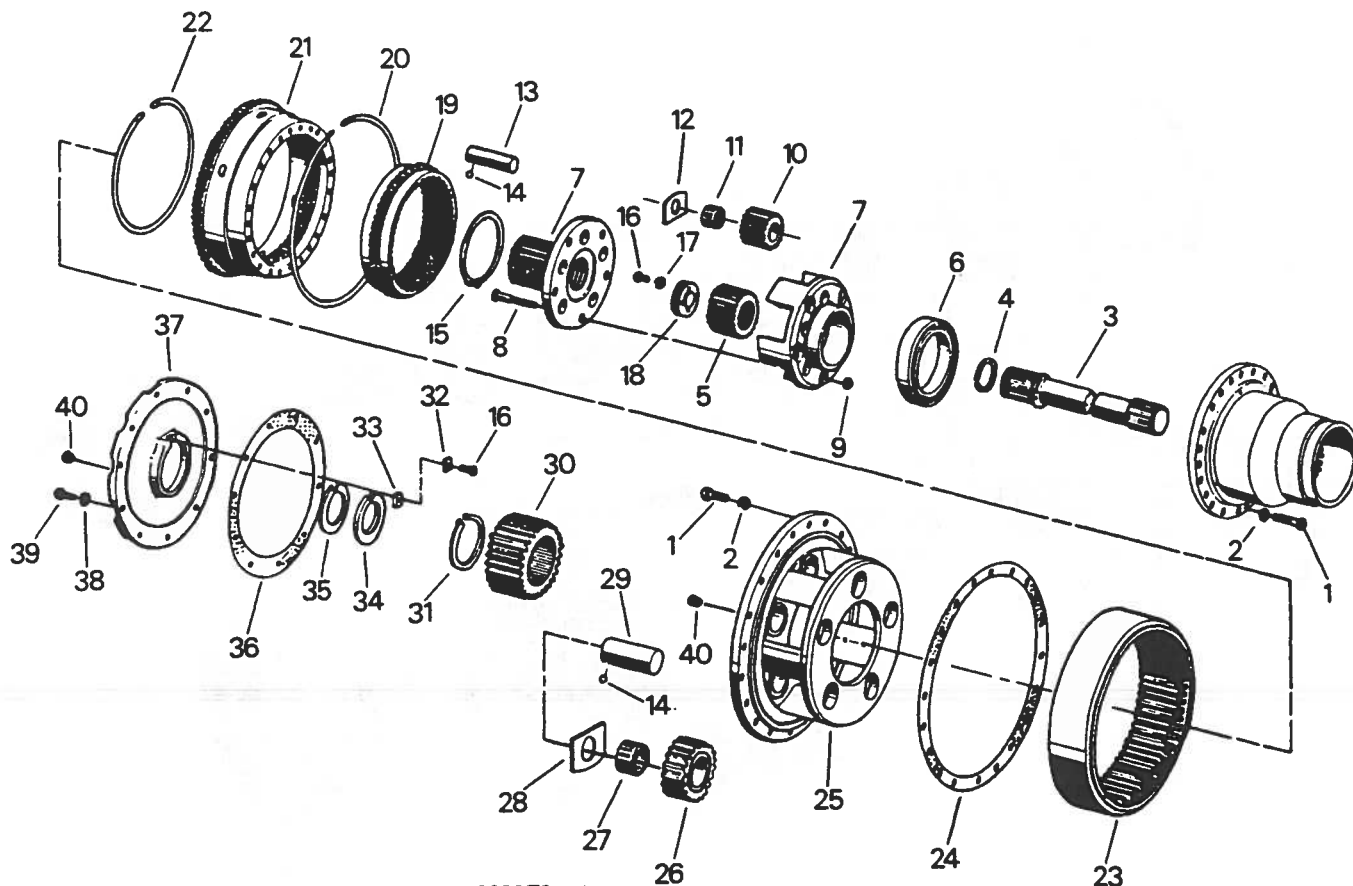
Ref.	Part No.	Description	Qty.
13	16-1608	Shouldered Capscrew	6
14	16-1602	Sun Pinion (Inner)	2
15	16-1610	Clamping Ring -	2
16	16-1611	Double Ring Gear	2
17	16-1612	Capscrew	48
18	16-1613	Ring Gear	2
19	16-1614	Gasket	2
20-24	16-1517	Planetary Wheel Hub Assy (Outer) (also incl Ref. 12)	2
20	16-1615	Planet Carrier (Outer)	2
21	16-1616	Planet Pinion (Outer)	10
22	16-1617	Needle Roller Bearing	20
23	90-1008T1	Spacer Plate (16-1618 - Code E)	20
24	16-1619	Planet Pinion Shaft (Outer)	10
25	16-1592	Lock Washer	40
26	16-1621	Capscrew	40
27	16-1622	Sun Pinion (Outer)	2



K-598.00/10 Planetary Assembly

Ref.	Part No.	Description	Qty.
28	16-1623	Snap Ring	4
29	16-1624	Support Pin	2
30	16-1625	Shim	AR
31	16-1626	Hexagon Screw	2
32	16-1627	Locking Washer	2
33	16-1628	Clamping Plate	2

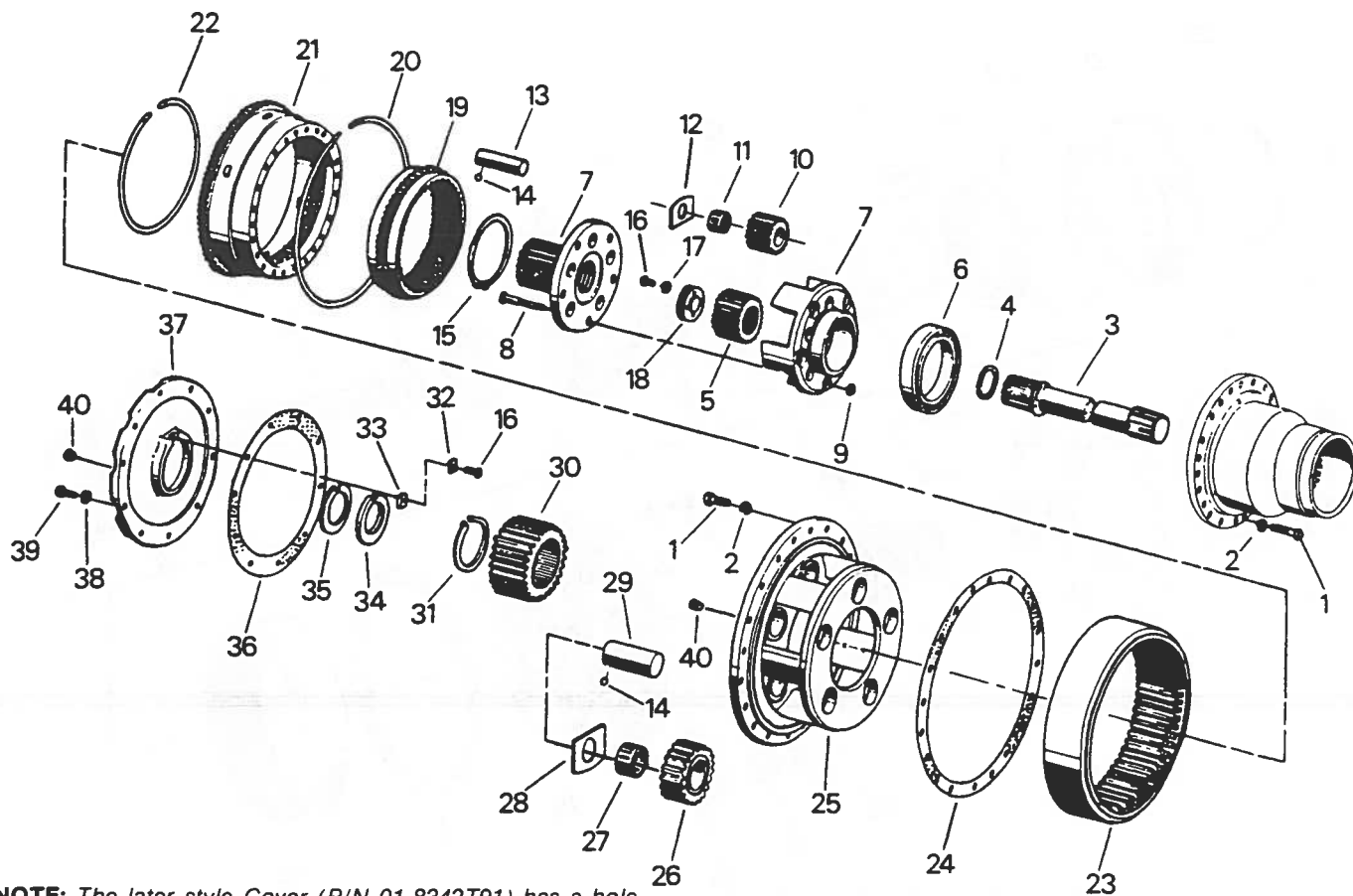
Ref.	Part No.	Description	Qty.
34	16-1629	Thrust Bearing	2
35	16-1630	Shim	AR
36	16-1631	Gasket	2
37	16-1632	Cover	2
38	16-1633	Spring Washer	20
39	16-1634	Hexagon Screw	20



K-598.20/30 Planetary Assembly

Ref.	Part No.	Description	Qty.
1	16-1621	Capscrew	84
2	16-1620	Lock Washer	84
3	01-8322	Axle Shaft I (975 mm)	1
	01-8324	Axle Shaft II (1105 mm)	1
4	16-1596	Snap Ring	2
5	16-1602	Sun Pinion (Inner)	2
6	16-1597	Ball Bearing	2
7	01-8326	Planet Carrier (Inner) (incl 8 & 9)	2
8	01-8327	Shouldered Capscrew	10
9	01-8328	Nut	10
10-18	01-8325	Planetary Wheel Hub Assy (Inner) (also incl Ref. 7)	2
10	16-1604	Planet Pinion (Inner)	10
11	16-1603	Needle Roller Bearing	20
12	01-8329	Spacer Plate	20
13	16-1606	Planet Pinion Shaft (Inner)	10
14	16-1607	Steel Ball	20
15	16-1609	Snap Ring	2
16	16-1626	Capscrew	6
17	01-8332	Lock Washer	4

Ref.	Part No.	Description	Qty.
18	01-8333	Support Screw	2
19	01-8334	Ring Gear	2
20	16-1610	Clamping Ring	2
21	01-8335	Double Ring Gear	2
22	01-8336	Circlip	2
23	16-1613	Ring Gear	2
24	16-1614	Gasket	2
25-29	01-8337	Planetary Wheel Hub Assy., Outer (also includes Ref. 14) (Early Style)	2
	01-8337T91	Planetary Wheel Hub Assy., Outer (Later Style)	
25	01-8338	Planet Carrier, Outer (Early Style)	2
	01-8338T91	Planet Carrier, Outer (Later Style) (see Note)	
26	01-8339	Planet Pinion, Outer	10
27	01-8340	Needle Roller Bearing	20
28	01-8341	Spacer Plate	20
29	16-1619	Planet Pinion Shaft, Outer	10
30	16-1622	Sun Pinion, Outer	2
31	16-1623	Snap Ring	2

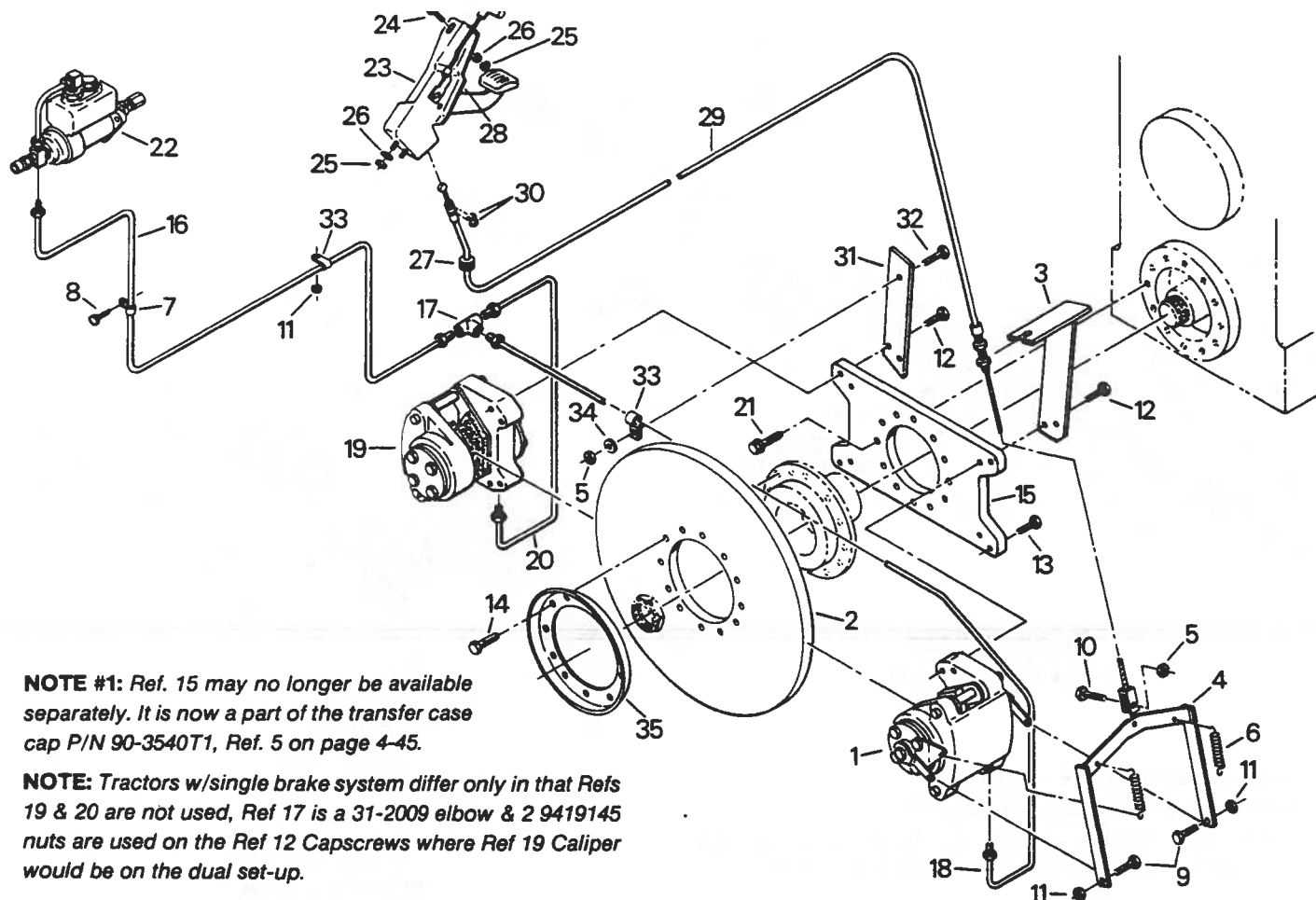


NOTE: The later style Cover (P/N 01-8342T91) has a hole tapped in it for a Plug (Ref. 40) while the early style Cover P/N 01-8342) does not have this hole.

K-598.20/30 Planetary Assembly

Ref.	Part No.	Description	Qty.
32	16-1627	Locking Plate	2
33	16-1628	Clamping Plate	2
34	16-1629	Thrust Bearing	2
35	16-1630	Shim	AR
36	16-1631	Gasket	2

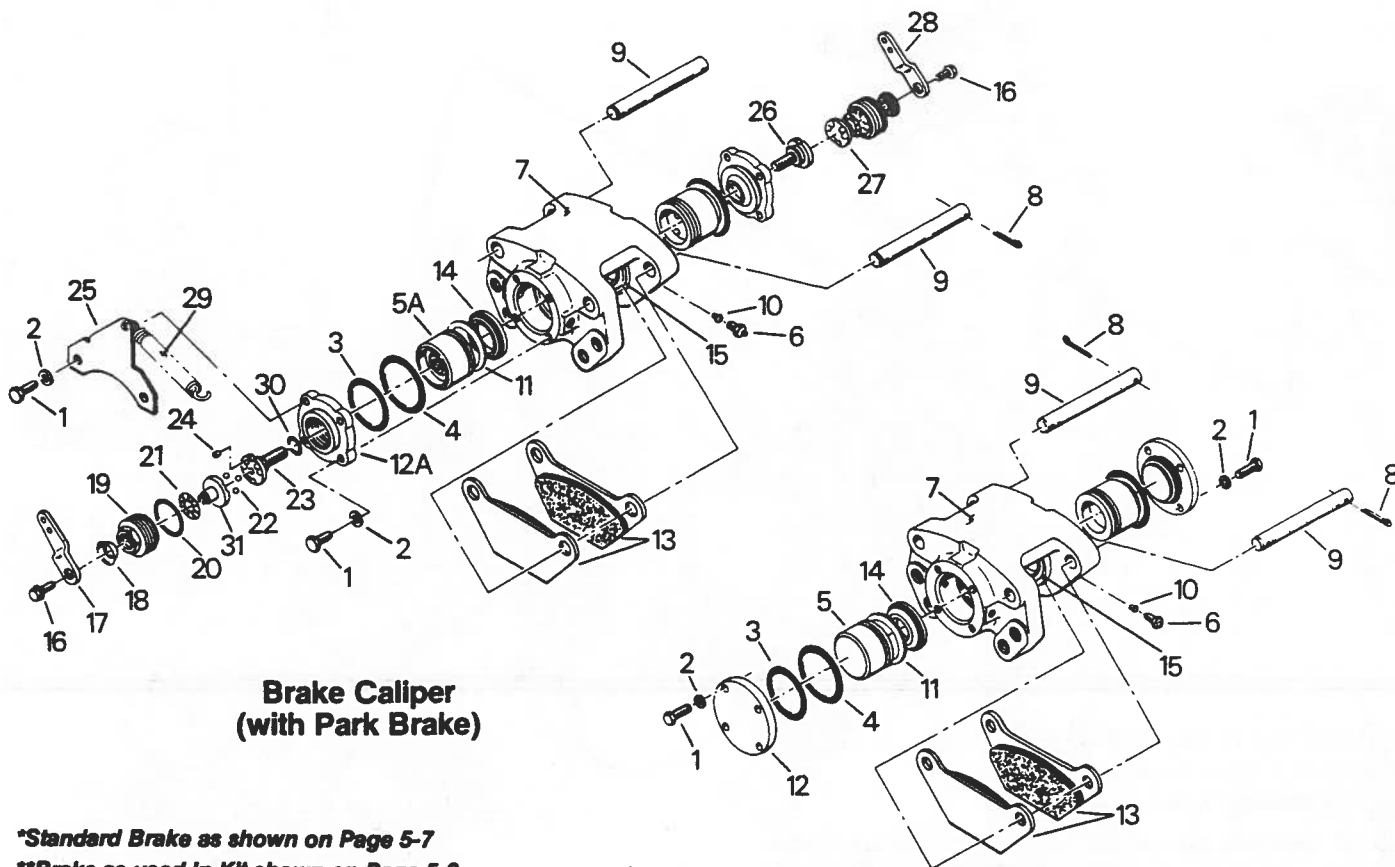
Ref.	Part No.	Description	Qty.
37	01-8342	Cover (Early Style)	2
	01-8342T91	Cover (Later Style) (see Note)	
38	16-1633	Spring Washer	20
39	16-1634	Hexagon Screw	20
40	90-1232T1	Plug	2



Brake Group - Caliper Style (ASN 2000) (Feb 82)

Ref.	Part No.	Description	Qty.
1		Brake Caliper (w/Park (see Next Page)	1
2	90-3469T1	Disc, Brake	1
3	90-4027T1	Bracket	1
4	90-4030T1	Bracket	1
5	19-341	Nut, Lock	2
6	90-2902T1	Spring (Part of Ref 1)	2
7	32-068	Clamp	2
8	19-131	Tap Screw	1
9	19-654	Capscrew	2
10	19-799	Capscrew	1
11	19-802	Nut, Lock	3
12	19-817	Capscrew	4
13	19-839	Capscrew	4
14	19-5892	Capscrew, Flanged (w/Ref. 35)	12
	19-6007	Capscrew, Flanged (w/o Ref. 35)	
15	90-2786T1	Plate (see Note #1)	1
16	90-3535T2	Tube Assy	1
17	31-1865	Adapter	1
18	90-2900T1	Tube Assy	1
19		Brake Caliper (non Park) (see Next Page)	1

Ref.	Part No.	Description	Qty.
20	90-2182T2	Tube Assy	1
21		Capscrew (part of Transfer Case on Page 4-45)	
22		Master Cyl (see Page 5-9)	1
23	60-2225T2	Park Brake Lever Assy	1
24	19-007	Capscrew	1
25	19-508	Nut, Lock	3
26	19-700	Washer	3
27	22-486	Grommet	1
28	20-1463T1	Switch, Assy (Brake Warning)	1
29	60-2457T1	Cable	1
30	19-5867	Retaining Ring, Ext	1
31	90-2864T1	Brace	1
32	9418822	Capscrew	1
33	31-1862	Clamp	2
34	9419393	Washer	1
35	90-3489T1	Slinger, Grease (not necessary to use)	1



**Brake Caliper
(with Park Brake)**

**Brake Caliper
(w/o Park Brake)**

**Standard Brake as shown on Page 5-7*

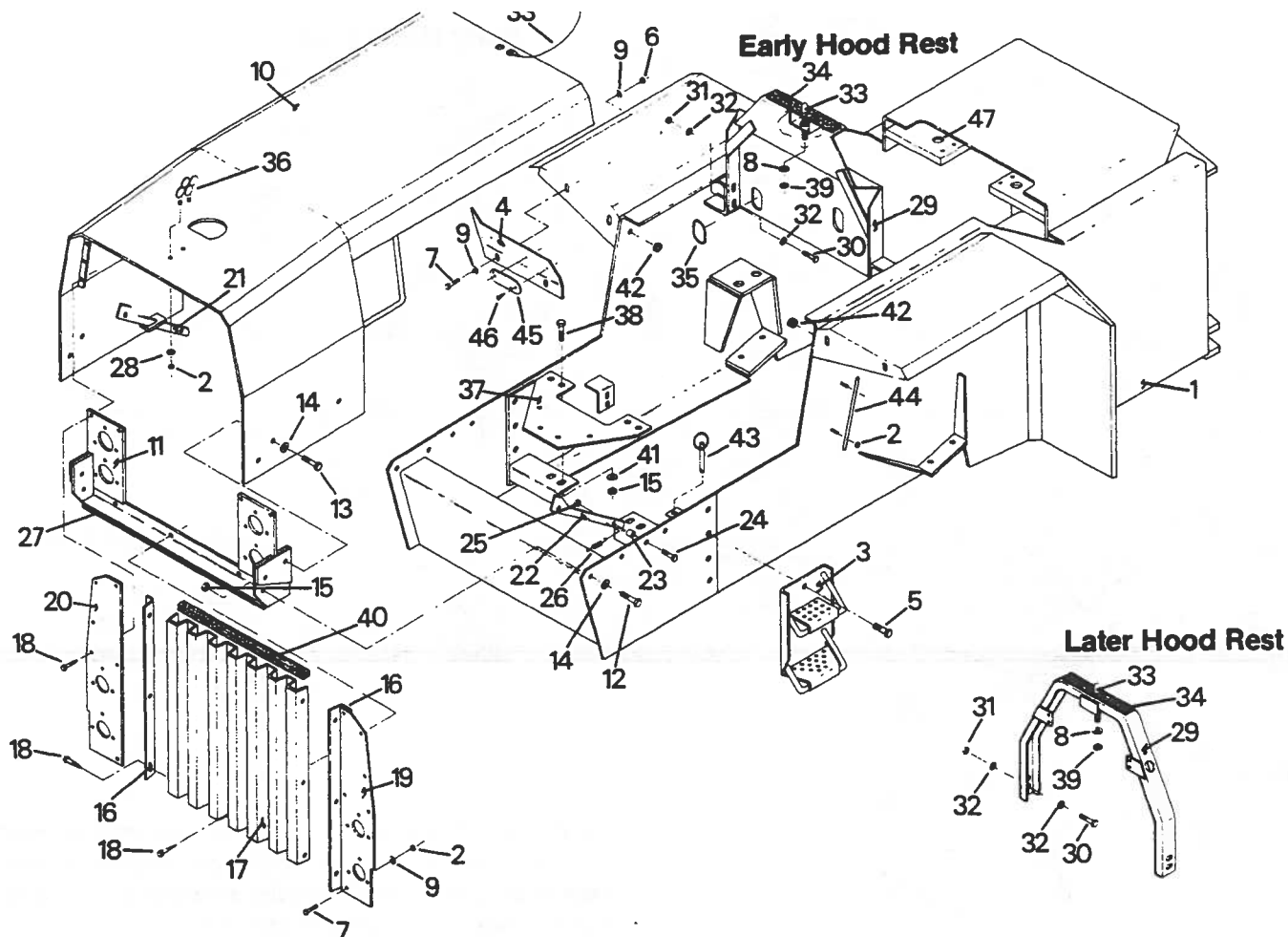
***Brake as used in Kit shown on Page 5-9*

(To determine location of Refs. 23, 26, 27 & 31, note it's relationship to the mounting end of the housing, Ref. 7)

Brake Caliper Assemblies (w/Stationary Transfer Case) (ASN 2000)

Ref.	Part No.	Description	Qty.
1-31	90-1352T91	Brake Caliper Assy*	1
	90-1993T91	Brake Caliper Assy** (with Park Brake)	
1-15	90-1992T91	Brake Caliper Assy*	
	90-4070T91	Brake Caliper Assy** (w/o Park Brake)	
1	90-3445T1	Capscrew	8
2	19-117	Lock Washer (qty 4 on Brake Caliper P/N 90-1992T91)	8
3	90-3479T1	O-Ring	2
4	90-3480T1	Seal	2
5	90-3463T1	Piston	2
5A	90-3443T1	Piston	
6	90-3460T1	Bleeder Screw	3
7	90-3442T1	Caliper Housing	1
8	19-658	Cotter Pin	4
9	90-3458T1	Pin	2
10	90-3459T1	Tube Seat Insert	4
11	90-3481T1	Insulator	2
12	90-3464T1	End Cap	2
12A	90-3444T1	Mount	2
13	90-3457T1	Pad Holder Assy	2

Ref.	Part No.	Description	Qty.
14	90-3461T1	Retainer	2
15	90-3482T1	Boot	2
16	90-3456T1	Machine Screw	2
17	90-3455T1	Lever	1
18	90-3477T1	Seal	2
19	90-3453T1	Retainer	2
20	90-3478T1	O-Ring	2
21	90-3452T1	Thrust Bearing	2
22	90-3449T1	Ball	6
23	90-3446T1	Thrust Screw*	1
	90-3447T1	Thrust Screw**	
24	90-3448T1	Pin	2
25	90-3462T1	Bracket	2
26	90-3447T1	Thrust Screw*	1
	90-3446T1	Thrust Screw**	
27	90-3451T1	Actuator Shaft*	1
	90-3450T1	Actuator Shaft**	
28	90-3454T1	Lever (Right)	1
29	90-2902T1	Spring	2
30	90-3483T1	O-Ring	2
31	90-3450T1	Actuator Shaft*	1
	90-3451T1	Actuator Shaft**	

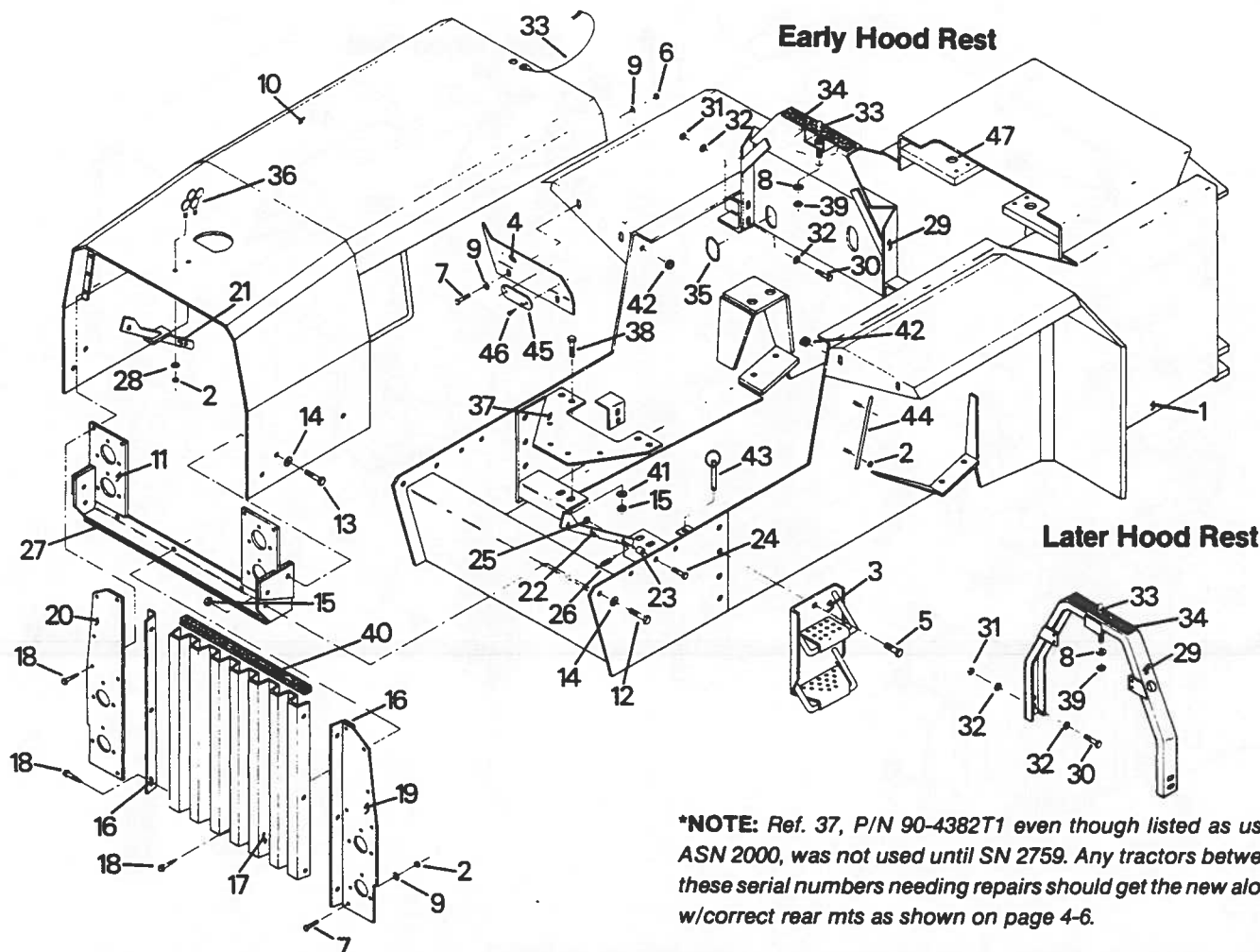


"If the 'T1' version of Ref. 4 is used, the 'T1' version of Ref. 45 is needed also."

Front Frame

Ref.	Part No.	Description	Qty.
1		Front Frame (special order)	1
2	19-076	Nut (Repl by 19-417 Capscrew w/late Hood Sight)	2
3	51-449	Step Plate (LH Standard)	1
4	51-473T1	Wire Cover (Right) (51-473) (B)*	1
	51-472T1	Wire Cover Left) (51-472) (B)*	
5	19-187	Capscrew	4
6	19-291	Lock Nut	4
7	19-002	Capscrew	10
8	19-463	Washer	2
9	19-223	Washer	14
10	01-514	Hood (855 & 3406)	1
	01-550	Hood (3306 & 903)	
11	01-523	Hood Pivot	1

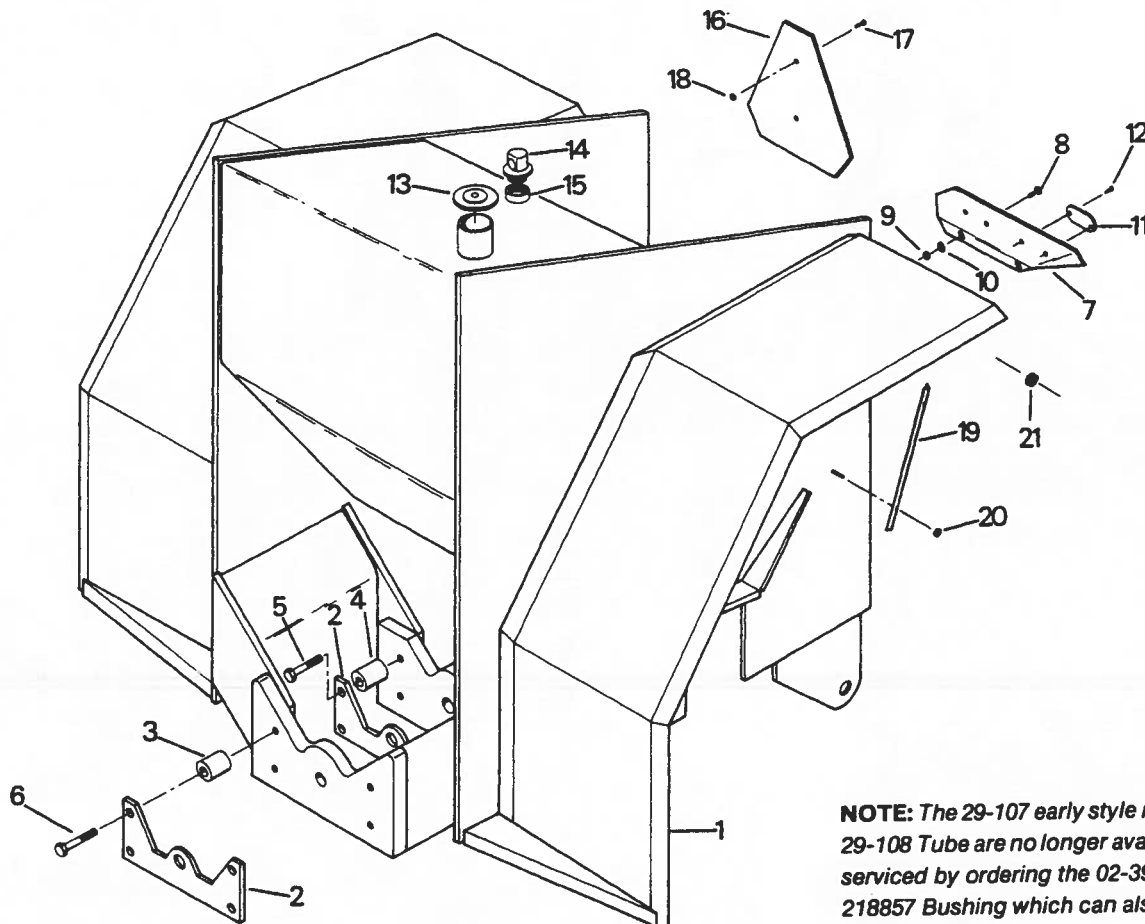
Ref.	Part No.	Description	Qty.
12	19-839	Capscrew	2
13	19-675	Capscrew	4
14	19-111	Washer	6
15	19-222	Lock Nut	2
		(qty 8 w/3406 engine)	
16	01-531	Angle, Grille	2
17	01-532	Screen	1
18	9419897	Screw, Tapping	15
19	01-533	Side Screen (Left)	1
20	01-534	Side Screen (Right)	1
21	01-535	Hood Latch (Right)	1
22	01-538	Hood Latch (Left)	1
23	01-443	Bushing	2
24	19-044	Capscrew	2
25	19-082	Lock Nut	2
26	11-016	Spring	1
27	01-513	Foam Pad	1
28	19-467	Lock Washer	2



Front Frame

Ref.	Part No.	Description	Qty.
29	70-1240T2	Hood Rest, Late Style (Repl earlier 01-1000, used on all except 903, & 01-1001, used w/903) (B)	1
30	19-019	Capscrew	4
31	19-087	Lock Nut	4
32	19-107	Washer	8
33	01-545	Latch, Hood (Includes 8, 39 & following)	1
	19-093	Nut, 1/2 NF	1
	02-4121T1	Pin (main)	1
	02-4120T1	Lanyard Cable	1
	19-5768	Pin, Clip	1
	19-5620	Tap Screw	1
34	51-540	Foam Pad (Early Hood Rest)	1
	01-4073	Foam Pad (Later Hood Rest)	1
35	24-220	Edging (Early Hood Rest)	2
36	01-549	Hood Sight (Early ones had mtg studs, the newer ones are tapped 1/4 NC)	1

Ref.	Part No.	Description	Qty.
37	01-1018T1	Support, Engine (3406) (BSN 2000)	1
	90-4382T1	Support, Engine (3406) (ASN 2000)*	1
38	19-840	Capscrew	6
39	22-368	Lock Nut	2
40	01-1922	Foam	1
41	19-1071	Washer	4
42	22-288	Grommet	2
43	19-5466	Pin (G)	1
44	51-366	Wire Guard (used on some early models only)	2
45	22-832T1	Reflector (22-832) (B)	4
46	19-131	Screw, Tapping	8
47	15-044	Weld-in Bushing	1



NOTE: The 29-107 early style manual gauge & 29-108 Tube are no longer available & must be serviced by ordering the 02-3924T91 gauge & 218857 Bushing which can also be ordered as Kit #35-1302T91.

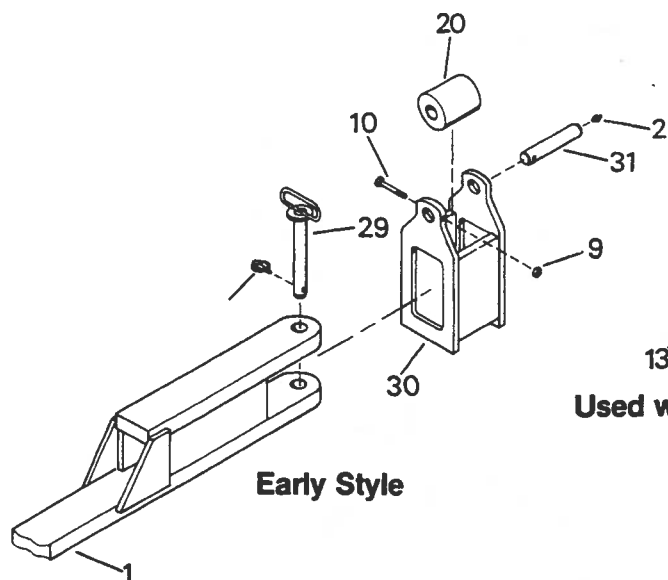
**If the "T1" version of Ref. 7 is used the "T1" version of Ref. 11 is needed also.*

02-6604T91 is Locking Fuel Cap

Rear Frame

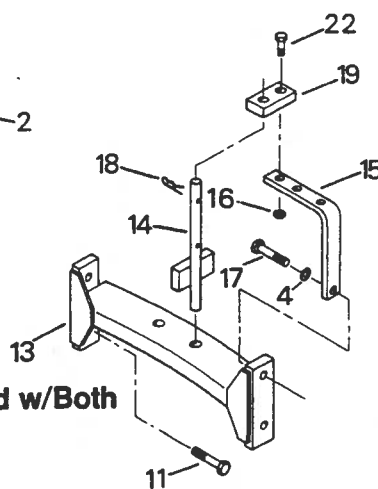
Ref.	Part No.	Description	Qty.
1	53-112	Rear Frame (A305 axle)	1
	01-8611	Rear Frame (other axles)	
	01-4987T1	Rear Frame (ASN 2000, w/stationary transfer case)	
2	51-384	Plate, Hinge Support	2
3	51-385	Spacer, Hinge Support Plate (Front)	4
4	51-386	Spacer, Hinge Support Plate (Rear)	4
5	19-268	Capscrew, 3/4 NC x 6	4
6	19-930	Capscrew, 3/4 NC x 5-1/2	4
7	51-472T1	Wire Cover (Right) (51-472) (B)*	1
	51-473T1	Wire Cover (Left) (51-473) (B)*	
8	19-002	Capscrew, 1/4 NC x 1	4
9	19-291	Lock Nut, 1/4 NC	4
10	19-223	Washer, 1/4	8
11	01-2655T1	Reflector (01-2655) (B)	4
12	19-131	Screw, Tapping, #10 NC x 1/2	8

Ref.	Part No.	Description	Qty.
13	01-4853	Fuel Cap	1
14	02-3924T91	Gauge, Fuel Level, Manual (Repl 29-107) (E) (02-4889T1 Dial is only serviced Part)	1
	01-8353	Sender, Fuel Level, Electric (20-1379T1 Dial & 20-1380T1 Gasket are only serviced Parts)	1
15	218857	Bushing (used w/02-3924T91 Gauge only)	1
16	26-001	Emblem, SMV (Metal Backed)	1
17	19-233	Machine Screw, #10 NC x 1/2	2
18	19-567	Nut, #10 NC	2
19	51-366	Wire Guard	2
20	19-076	Nut, 1/4 NC	4
21	22-095	Grommet	2

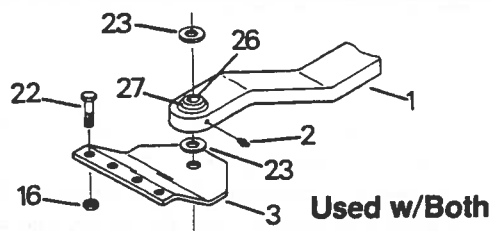


Early Style

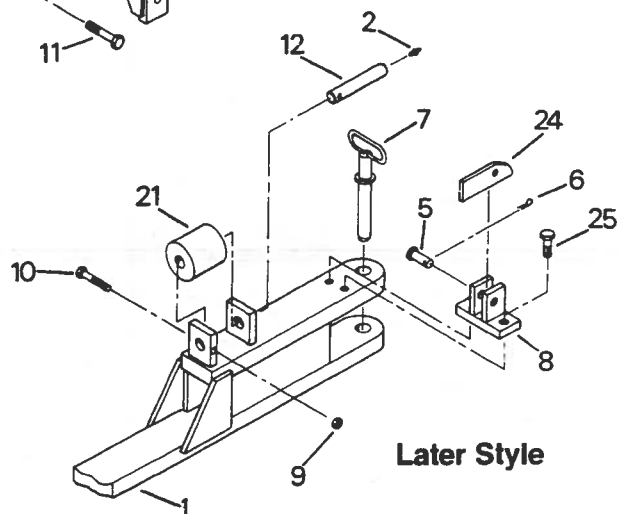
Used w/Both



Later Style



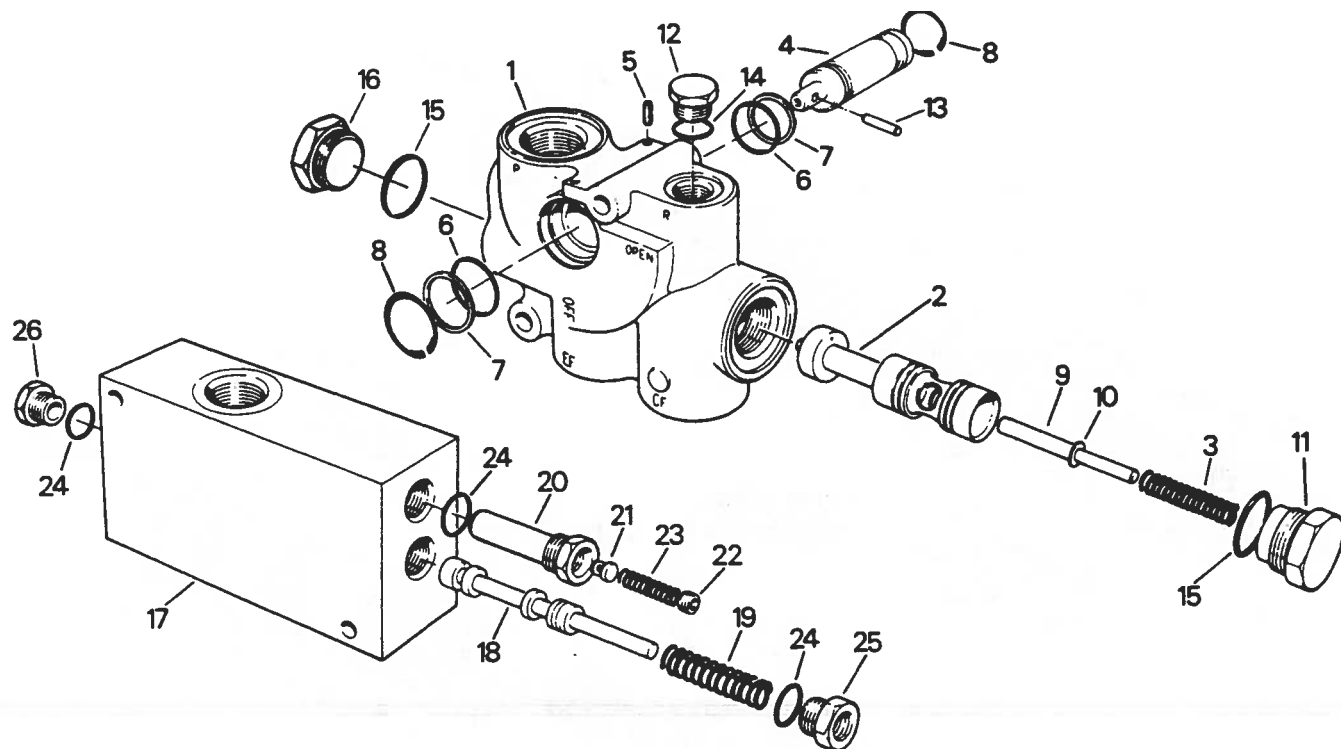
Used w/Both



Drawbars & Mounting

Ref.	Part No.	Description	Qty.
1	53-106	Drawbar (D) (Early Style)	1
	01-4905T1	Drawbar (D) (Later Style)	1
2	31-094	Zerk	2
3	51-025	Drawbar Hinge Plate	1
4	19-112	Washer, 3/4	2
5	42-102	Pin	1
6	19-168	Cotter Pin	1
7	01-4896	Pullpin, Drawbar	1
8	01-4908	Pivot, Latch	1
9	19-082	Nut, 1/2 NC	1
10	19-041	Capscrew, 1/2 NC x 4-1/2	1
11	19-394	Capscrew, 1/2 NC x 2	2
12	01-4900	Pin, Roller	1
13	40-511	Hanger, Drawbar	1
14	53-107	Drawbar Stop	2
15	53-111	Mount, Hydraulic Coupler	2
16	19-085	Lock Nut, 3/4 NC	6
17	19-216	Capscrew, 3/4 NC x 3	2
18	19-843	Hairpin	2

Ref.	Part No.	Description	Qty.
19	53-110	Top Link, Drawbar Stop	2
20	43-045	Roller	1
21	01-4901	Roller	1
22	19-063	Capscrew, 3/4 NC x 2-1/2	6
23	52-043	Washer	2
24	01-4906	Latch	1
25	19-059	Capscrew, 5/8 NC x 1-1/2	2
26	40-140	Uniball	1
27	40-139	Uniball Housing	2
28	19-1041	Klik Pin	1
29	43-049	Pullpin, Drawbar	1
30	53-034	Roller Yoke (used with 2" thick Drawbar Hanger) (D)	1
	03-1004	Roller Yoke (used with 1-1/2" thick Drawbar Hanger) (D)	
31	43-046	Pin, Roller	1

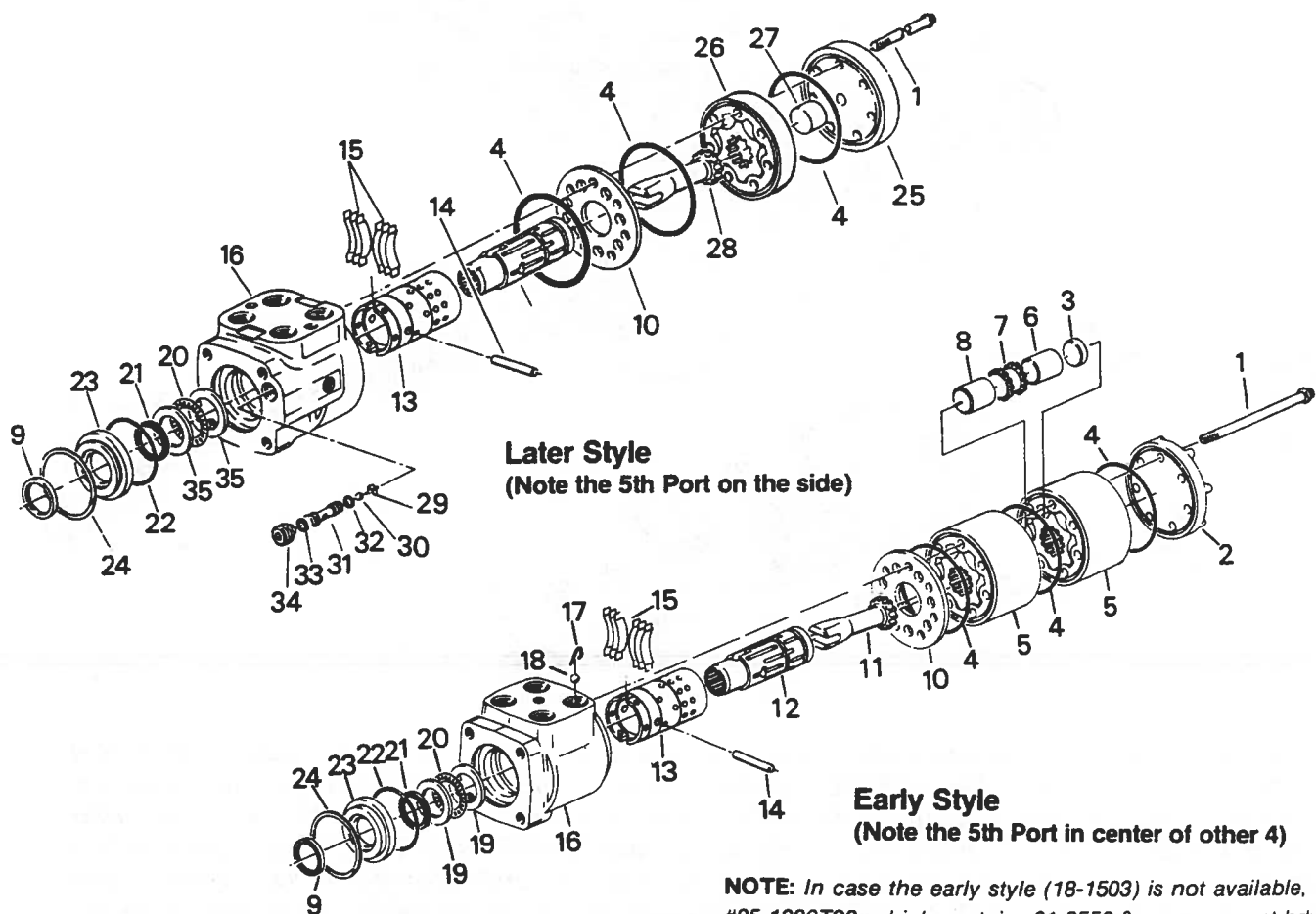


NOTE: A recent change was made to the relief cartridge increasing the pressure from 2000 psi (P/N 01-2392) to 2200 psi (P/N 50-1289T91 which is now replaced by 50-1959T91). Coordinated with this change to the priority valve were pressure changes to the male relief valve on Page 8-12, and the relief assembly in the hydraulic control valve on Page 8-16. When ordering either a new priority valve or just the relief cartridge, the latest style (2200 psi) should be ordered and the appropriate pressure changes made to the main relief valve and hydraulic control valve to assure proper function of the hydraulic system. See the "Notes" on the relief valve page and the hydraulic control valves pages for recommended changes to these items. See SN0064 (Feb. 15, 1981) for further details.

Flow Divider & Priority Valve

Ref.	Part No.	Description	Qty.
1-15	18-1505T91	Flow Divider (18-1505) (E)	1
	35-1218T91	Seal Kit (incl. 6, 7, 14 & 15)	AR
1	NSS	Valve Body	1
2	18-1615	Piston	1
3	18-1616	Spring	1
4	18-1617	Valve Control	1
5	18-1618	Set Screw	1
8	31-1457	O-Ring	2
7	01-8180	Back-Up Ring	2
8	18-1621	Snap Ring	2
9	18-1622	Retaining Rod	1
10	18-1623	Washer	1
11	18-1624	Plug (w/O-Ring)	1
12	31-336	Plug (w/O-Ring)	1
13	456836	Roll Pin	1
14	31-1335	O-Ring	1
15	31-1100	O-Ring	2
16	02-4661T91	Plug (w/O-Ring) (see Note)	1

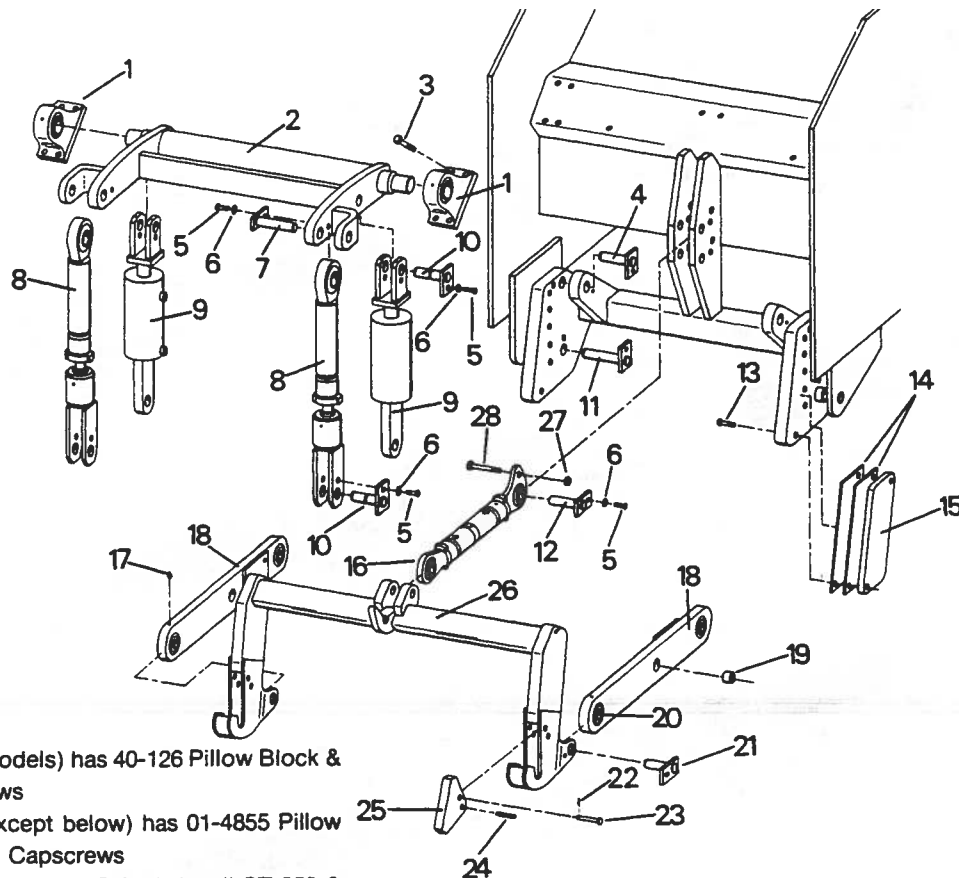
Ref.	Part No.	Description	Qty.
17-26	01-2391T91	Priority Valve (01-2391) (E) (see Note)	1
17	18-1600	Housing	1
18	18-1599	Spool	1
19	18-1598	Spring	3
20-24	50-1959T91	Relief Cartridge (01-2392) (E) (50-1289T91) (B) (see Note)	1
20	NSS	Body	1
21	NSS	Poppet	1
22	NSS	Adjusting Screw	1
23	NSS	Spring	1
24	18-1592	O-Ring	3
25	18-1591	Plug, Spring Retainer	1
26	18-1590	Plug (w/O-Ring)	1



Steering Control Valves

Ref.	Part No.	Description	Qty.
	18-1503	Steering Control Valve (D) (Early)	1
	01-9556	Steering Control Valve (D) (Later)	
1	18-1734	Bolt	7
2	18-1678	Cap, End	1
3	18-1679	Plug, Gerotor	1
4	18-1680	O-Ring	3
5	18-1733	Gear Set	2
6	18-1735	Spacer	1
7	18-1683	Spline	1
8	18-1736	Spacer	1
9	18-137	Seal, Oil	1
10	18-1686	Plate, Spacer	1
11	18-1687	Drive	1
12-18	18-1688	Control Parts Assy, Early	1
12-16	02-2058	Control Parts Assy, Later	1
12	NSS	Spool, Control	1
13	NSS	Sleeve, Control	1
14	18-157	Pin	1
15	18-1689	Centering Spring	6
16	NSS	Housing	1

Ref.	Part No.	Description	Qty.
17	18-1690	Clip, Retainer	1
18	18-1691	Ball, Steel	1
19	18-1692	Race, Thrust	2
20	18-1693	Bearing, Needle Thrust	1
21	18-144	Seal, Quad Ring	1
22	18-1694	O-Ring	1
23	18-1695	Bushing, Seal Gland	1
24	18-1696	Snap Ring	1
25	02-2422	Cap, End	1
26	02-2055	Gear Set	1
27	02-2057	Spacer	1
28	18-128	Drive	1
29	02-2059	Retainer	1
30	02-2060	Ball, Check	
31	02-2061	Seat, Check Ball	1
32	18-150	Seal	1
33	02-2062	O-Ring	1
34	02-2063	Set Screw	1
35	02-2064	Race, Bearing	2



*3-Pt Kits

- 35-1141T92** (Early) (all models) has 40-126 Pillow Block & 5/8 Capscrews
- 35-1168T92** (Later) (all except below) has 01-4855 Pillow Block & 7/8 Capscrews
- 35-1223T94** (Later) (all tractors w/S-34 Axle, all ST 350 & ST 107CP after Oct 81, approx)

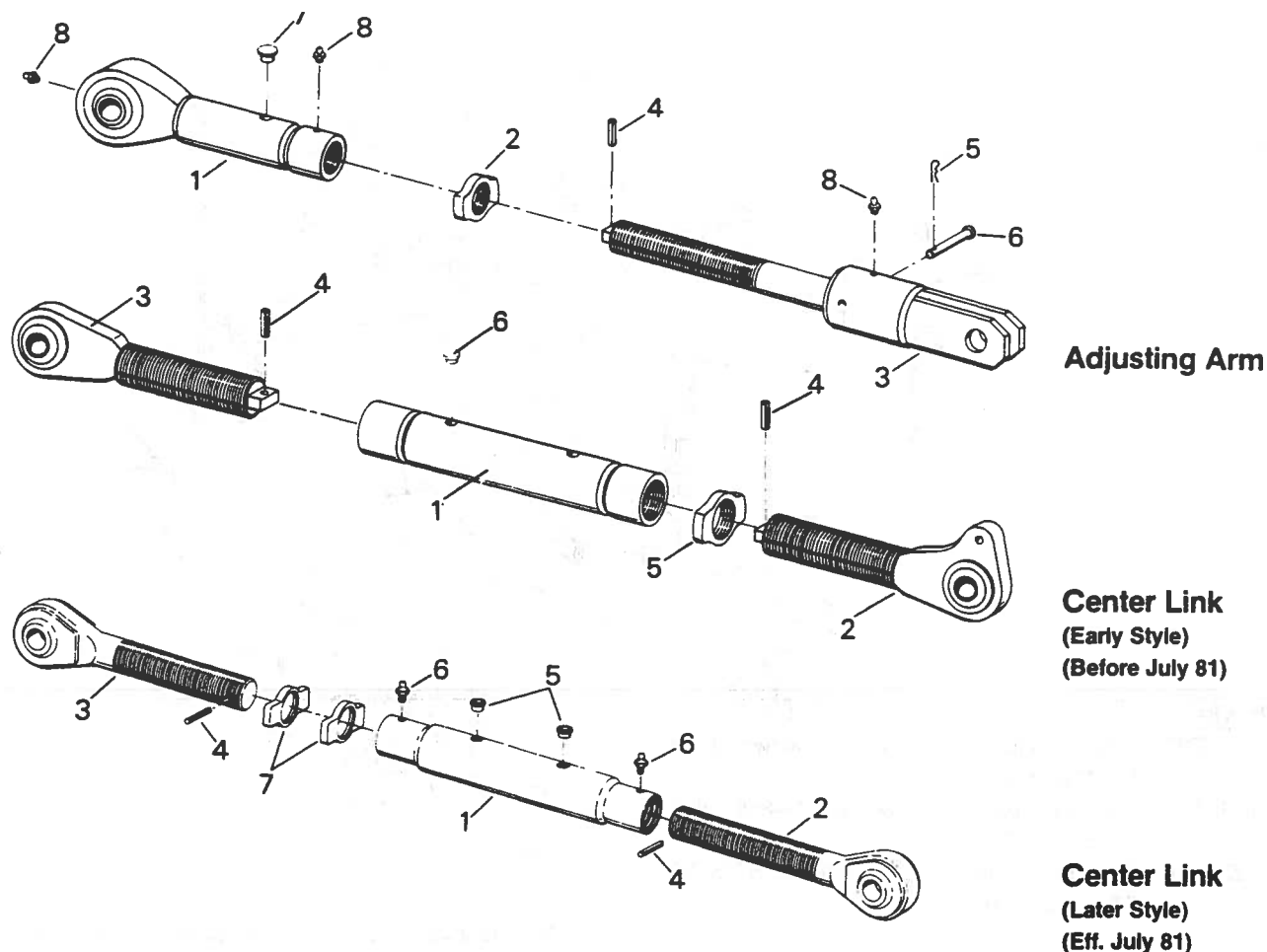
**See following 2 pages for components w/variations.

*NOTE: See Pillow Block S/N Breaks for Kit usage.

3-Pt. Hitch

Ref.	Part No.	Description	Qty.
1	40-126	Pillow Block (D) (Early)*	2
	01-4855T1	Pillow Block (D) (Late)*	
2	70-1850T91	Rocker Shaft (01-4854) (B)	1
3	19-059	Capscrew, 5/8 NC x 1-1/2 (D)*	8
	19-5426	Capscrew, 7/8 NC x 2-3/4 (D)*	
4	40-382	Pin	2
5	19-675	Capscrew, 5/8 NC x 1-1/4	14
6	19-111	Washer, 5/8	14
7	40-440	Pin	2
8	**	Adjusting Arm	2
9	**	Cylinder Assy	2
10	40-430	Pin	4
11	40-380	Pin	2
12	40-432	Pin	2
13	19-042	Capscrew, 1/2 NC x 2-1/4	4
14	40-521	Wear Shim (thin)	4
15	40-519	Wear Plate (thick)	2
16	**	Center Link	1
17	31-094	Zerk (on adj arm & Pillow Block	10
	31-095	Zerk (on Pin #10 only)	4
	31-096	Zerk (on lower link)	4

Ref.	Part No.	Description	Qty.
18	50-038	Lower Link	2
19	15-021	Bushing	2
20	40-302	Uniball	4
	40-106	Housing, Uniball	4
21	40-438	Pin	4
22	19-358	Hairpin	2
23	19-257	Pin, 1/2 x 3	2
24	9411887	Roll Pin, 1/2 x 2-1/2	2
	(19-258) (B)		
25	40-504	Latch, Quick Hitch	2
26	40-330T1	Quick Hitch (40-330) (B)	1
27	19-084	Nut, 3/4 NC	1
28	19-698	Capscrew, 3/4 NC x 5	1



3-Pt Hitch Components

Ref.	Part No.	Description	Qty.
1-8	40-373T91	Adjusting Arm Assy	2
1	40-372	Adjusting Arm (Top Assy)	1
2	40-109	Lock Nut	1
3	40-375T1	Adjusting Arm (Bottom Assy)	1
4	19-786	Coil Spring Pin	1
5	19-358	Hair Pin	1
6	40-322	Float Pin	1
7	18-1292	Plug, Plastic Tube	2
8	31-094	Zerk	3

Ref.	Part No.	Description	Qty.
1-6	40-513	Center Link Assy (Early Style) (service w/late style)	1
1	40-219	Turnbuckle	1
2	40-514	Link, LH Thread	1
3	40-113	Link, RH Thread	1
4	19-786	Coil Spring Pin	2
5	40-109	Lock Nut, RH	1
6	18-1292	Plug, Plastic	2
1-7	70-1829T91	Center Link Assy (Later Style)	1
1	70-1832T2	Tube	1
2	70-1831T1	Socket & Rod (RH)	1
3	70-1830T1	Socket & Rod (LH)	1
4	19-175	Spring Pin	2
5	01-9116	Closure, Plastic	4
6	31-095	Zerk	2
7	02-3651T1	Lock Nut	2

01-263	4-5	01-1217	1-12	01-1345	10-5	01-1852	4-42	01-2213	4-27
01-366	5-1	01-1217	1-13	01-1346	10-5	01-1857	4-43	01-2213	4-28
01-371	4-35	01-1217	1-14	01-1348	4-35	01-1863	4-37	01-2213	4-34A
01-421	4-2	01-1218	1-12	01-1349	9-2	01-1864	4-37	01-2214	4-27
01-443	6-1	01-1219	1-13	01-1348	10-47	01-1865	4-44	01-2214	4-28
01-462	6-3	01-1220	1-12	01-1349	4-51	01-1889	4-42	01-2214	4-34A
01-473	6-3	01-1220	1-14	01-1350	4-52	01-1902	4-42	01-2219	10-44
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02-5348T1	9-3	04-1063	1-1	07-1011S1	4-11	12-1425	4-33	12-1597	4-28
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02-6604T91	6-5	04-574T3	1-32	07-1017	4-15	12-1435	4-33	12-1616	4-27
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02-6647T1	5-9	05-266	10-13	09-004	4-11	12-1436	4-33	12-1654	4-28
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02-6894T1	10-15	06-098	10-18	09-045	4-13	12-1445	4-33	12-1669	4-31
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19-5575	4-3	20-1214T1	10-26	20-1609T1	2-5	22-228	2-24	22-668	2-27
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19-5589	4-28	20-1229T1	2-16	20-1608T1	4-6	22-367	2-28	22-670	2-17
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19-5590	4-28	20-1242T1	3-2	20-1628T1	2-21	22-368	1-19	22-670	2-20
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20-191	10-13	20-1411T1	2-17	20-1940T1	2-23	22-635	2-7	22-717	1-26
20-293	10-13	20-1411T1	2-19	20-1948T1	10-6	22-635	2-8	22-717	1-26
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20-297	10-13	20-1425T1	2-4	20-2013T1	1-28	22-637	2-25	22-719	1-26
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20-429	10-13	20-1427T2	2-26	20-839T1	10-13	22-637	2-27	22-721	1-26
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22-761	2-14	22-1001	1-26	22-1096	2-12	24-082	1-17	25-285	3-10
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22-762	2-29	22-1003	2-12A	22-1098	2-12	24-084	1-17	25-285	3-4
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22-780	2-16	22-1010	2-12	22-1104	2-12	24-097	1-17	25-332	3-10
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22-790	2-25	22-1016	2-12	22-1109	4-9	24-107	1-18	25-378	3-6
22-792	2-15	22-1017	2-12	22-1110	2-12	24-108	1-18	25-378	3-7
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22-809	2-19	22-1045	2-11	22-1147	1-27	24-216	1-34	25-395	2-27A
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22-814	2-3	22-1053	2-12	22-744T1	1-25	24-230	4-25	25-395	3-8
22-814	2-4	22-1054	2-12	22-932T1	6-2	24-231	4-2	25-395	3-9
						24-231	4-3	25-399	3-4

25-400	3-6	26-504	9-4	29-1003	10-6	31-094	8-15	31-322	10-43
25-401	3-4	26-505	9-4	29-1003	10-6	31-094	10-1	31-323	10-35
25-402	3-8	26-505	9-4	29-1004	10-6	31-094	10-2	31-324	10-4
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25-1002	3-6	26-540	1-25	30-1056T2	10-14	31-137	4-6B	31-336	4-41
25-1002	3-7	26-541	1-8	30-1107T1	10-13	31-137	7-1	31-336	4-46
25-1002	3-8	26-541	1-9	30-1110T1	10-13	31-137	7-1	31-336	8-13
25-1002	3-9	26-548	10-15	30-1112T1	10-13	31-137	7-5	31-340	3-4
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25-1007	3-1	26-242T1	9-3	30-1124T1	10-13	31-157	4-18	31-340	8-3
25-1008	3-1	27-001	1-7	30-1129T1	10-13	31-157	4-18A	31-340	10-50
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25-1021	3-12	27-046T1	10-49	30-1191T1	10-14	31-175	7-3	31-363	10-35
25-1025	3-10	27-048T1	10-49	30-1192T1	10-14	31-175	7-4	31-363	10-43
25-1026	3-10	27-049T1	10-49	30-1193T1	10-14	31-175	7-5	31-364	4-35
25-1026	3-11	271562	4-52	30-1215T1	10-14	31-178	4-20	31-364	4-36
25-1027	3-10	272861	10-22	30-1216T1	10-14	31-178	4-6B	31-366	8-2
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25-1038	3-2	29-018	4-5	30-1250T1	10-13	31-199	7-4	31-369	10-50
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25-1039	3-3	28-018	10-18	31-012	4-35	31-207	4-18	31-375	4-8
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25-1047	3-2	28-025	10-18	31-015	4-18	31-210	7-4	31-385	10-4
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25-1056	3-2	28-031	4-5	31-028	4-35	31-219	4-41	31-399	4-35
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25-1067	3-1	28-035	7-4	31-038	4-43	31-269	4-8	31-418	10-50
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25-389T1	3-5	28-036	10-18	31-059	7-3	31-303	4-41	31-449	7-5
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26-238	10-27	29-058	4-9	31-081	8-4	31-319	3-4	31-464	8-3
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26-304	3-13	29-107	6-5	31-090	4-46	31-319	7-5	31-474	4-43
26-304	3-14	29-108	6-5	31-093	4-22	31-321	10-31	31-474	4-46
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26-498	9-2	29-111	4-12	31-093	4-36	31-321	10-43	31-479	10-50
26-500	9-4	29-1000	1-31	31-093	6-4	31-321	10-43	31-490	4-35
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26-502	9-4	29-1002	10-6	31-094	4-21	31-322	10-35	31-495	8-3
26-503	9-4	29-1002	10-6	31-094	6-6	31-322	10-35	31-495	10-50

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31-663	1-36	31-1295	3-11	31-1587	7-1	32-029	7-1	32-343	2-27A
31-664	1-36	31-1295	3-5	31-1588	7-1	32-039	4-3152	32-343	4-25
31-669	4-18	31-1295	3-7	31-1589	4-35	32-041	10-39	32-343	7-1
31-670	8-4	31-1295	3-9	31-1590	4-36	32-041	10-4	32-343	7-3
31-671	5-1	31-1296	3-11	31-1590	4-36	32-041	10-54	32-343	7-5
31-673	1-36	31-1296	3-5	31-1594	8-17	32-059	4-18E	32-632	3-8
31-674	1-36	31-1296	3-7	31-1610	10-39	32-059	7-1	32-1000	3-10
31-1000	3-6	31-1296	3-9	31-1611	10-39	32-059	7-5	32-1000	3-11
31-1001	4-35	31-1297	3-11	31-1639	10-50	32-060	1-2	32-1000	3-4
31-1002	1-2	31-1297	3-9	31-1639	10-50	32-060	1-4	32-1000	3-5
31-1003	7-5	31-1298	3-5	31-1640	10-50	32-068	4-21	32-1000	3-6
31-1008	3-2	31-1299	2-7	31-1642	10-50	32-068	5-1	32-1000	3-7
31-1019	8-1	31-1301	10-53	31-1644	10-50	32-068	5-5	32-1000	3-8
31-1021	10-30	31-1304	3-9	31-1645	10-50	32-068	5-7	32-1000	3-9
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31-1044	8-3	31-1313	10-54	31-1694	9-3	32-069	10-6	32-1004	4-15
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31-1047	8-2	31-1328	8-4E	31-1703	8-3	32-119	10-39	32-1006	10-54
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31-1076	4-3	31-1352	3-5	31-1904	4-26	32-137	4-15	32-2002	4-11
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31-1079	4-19	31-1352	3-9	31-1944	5-2	32-150	10-35	33-036	5-2
31-1080T1	4-15	31-1353	2-22	31-1946	7-1	32-150	10-43	33-063	1-36
31-1097	8-4E	31-1353	10-26	31-1947	7-1	32-150	10-43	33-064	1-46
31-1098	4-1	31-1354	1-29	31-1949	8-2	32-151	10-35	33-064	4-40
31-1099	9-1	31-1355	4-35	31-1946	10-4	32-158	4-35	33-072	5-2

33-074	5-2	35-1103	5-6	35-1336T91	10-3	38-343T1	10-23	42-071	4-40
33-076	5-2	35-1112T91	5-6	35-1341T91	10-19	40-106	10-1	42-102	5-6
33-077	5-2	35-1114	2-16	35-1341T91	10-19	40-109	10-2	42-102	6-6
33-078	5-2	35-1114T91	2-16	35-1343T91	1-22	40-109	10-2	43-045	6-6
33-079	5-2	35-1120	2-16	35-1344T91	10-12	40-113	10-2	43-046	6-6
33-081	5-2	35-1120T91	2-16	35-1345T91	10-18	40-126	10-1	43-049	6-6
33-085	5-2	35-1121	2-16	35-1346T91	4-51	40-139	6-6	436751	2-18
33-085	5-4	35-1121T91	2-16	35-1356T93	10-50	40-140	6-6	436751	2-20
33-087	5-2	35-1122	8-10	35-1361T1	8-9	40-219	10-2	442734	4-5
33-088	5-2	35-1122	8-6	35-1363T91	10-6	40-300	10-54	444054	7-1
33-108	5-2	35-1122	8-8	35-1364T91	10-7	40-302	10-1	444054	7-2
33-109	5-2	35-1127	10-17	35-1365T91	10-7	40-322	10-2	445476	3-3
33-117	1-36	35-1129	10-17	35-1367T91	8-18	40-372	10-2	45-064	10-13
33-127	5-2	35-1133	10-17	35-1368T91	10-15	40-380	10-1	45-177	4-15
33-128	5-2	35-1135	10-17	35-1375T91	4-49	40-382	10-1	45-180	4-10
33-129	5-2	35-1136T91	8-15	35-1377T91	10-50	40-430	10-1	45-181	4-14
33-130	5-2	35-1141T92	10-1	35-1378T91	10-50	40-432	10-1	45-184	4-10
33-131	5-2	35-1148	10-6	35-1379T91	9-11	40-438	10-1	45-187	4-15
33-133	5-2	35-1148T91	10-6	35-1379T91	8-48	40-440	10-1	45-188	4-14
33-134	5-2	35-1166	7-1	35-1380T91	8-18	40-456	10-54	45-188	4-15
33-136	5-2	35-1168T92	10-1	35-1381T91	8-18	40-457	10-54	45-190	4-15
33-137	5-2	35-1175	4-51	35-1392T91	10-19	40-459	10-54	45-191	4-15
33-140	5-2	35-1187	10-18	35-1393T91	9-1	40-461	10-54	45-195	4-15
33-164	5-4	35-1188T91	4-57	35-1394T91	9-1	40-475	10-54	45-196	4-15
33-165	5-4	35-1189T91	4-57	35-1395T91	9-1	40-504	10-1	45-200	4-12
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33-234	5-2	35-1218T91	8-13	35-1399T91	9-1	40-519	10-1	45-212	10-19
33-236	5-1	35-1219	4-14	35-1400T91	9-1	40-521	10-1	45-213	4-10
33-237	5-1	35-1220	4-7	35-1409T91	10-19	40-1008	1-238	45-215	4-10
33-247	5-1	35-1223T94	10-1	35-1410T91	10-19	40-1069	1-23A	45-215	4-11
33-270	1-36	35-1224T91	3-15	35-1411T91	10-18	40-1073	1-23A	45-216	4-10
33-280	5-1	35-1225T91	3-15	35-1411T91	10-19	40-1073	1-23A	45-216	4-11
33-281	5-3	35-1226T91	3-15	35-1412T91	10-19	40-1090	1-238	45-216	4-12
33-285	5-3	35-1232T91	10-9	35-1420T91	10-18	40-1115	1-238	45-216	6-3
33-286	5-3	35-1233T94	10-24	35-1420T91	10-19	40-1116	1-21	45-218	4-10
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33-289	5-3	35-1235T94	10-22	35-1420T91	10-19	40-1149	1-23A	45-218	4-12
33-295	1-26	35-1236T94	10-23	35-1430T91	10-18	40-1150	1-19	45-219	4-10
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33-298	5-3	35-1242T91	10-18	35-1430T91	10-19	40-1153	1-21	45-219	4-12
35-1001T91	10-19	35-1243T91	10-17	35-1430T91	10-19	40-1153	1-22	45-219	6-3
35-1002	10-18	35-1253T91	10-7	35-1430T91	10-19	40-1153	1-23A	45-221	4-10
35-1003T1	10-19	35-1257T91	10-55	35-1430T91	10-19	40-1154	1-21	45-221	4-11
35-1004T91	10-19	35-1262T91	8-10	35-1430T91	10-19	40-1154	1-22	45-223	4-10
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35-1008	1-36	35-1266T93	10-19	35-1432T91	10-18	40-1156	1-23A	45-227	4-15
35-1009	4-21	35-1266T93	10-19	35-1432T91	10-18	40-1157	1-23A	45-229	4-10
35-1009	5-5	35-1266T93	10-19	35-1434T91	10-19	40-1158	1-23A	45-230	4-10
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35-1018	10-18	35-1267	4-16	35-1440T91	1-25	40-1159	1-238	45-235	4-10
35-1020	10-5	35-1276T91	10-22	35-1441T91	1-25	40-1160	1-22	45-236	4-11
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35-1029	4-16	35-1280T92	8-14	35-1477T91	4-36	40-1175	1-22	45-253	10-18
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35-1036	4-12	35-1287T92	3-2	35-1511T91	10-508	40-1177	1-23A	45-254	4-15
35-1039	5-2	35-1288T91	10-4	35-1517T91	10-6	40-1178	1-20	45-255	4-15
35-1052	10-45	35-1290T91	7-4	35-1520T91	8-6	40-1179	1-20	45-259	3-14
35-1054	10-44	35-1293T92	10-19	35-1545T91	1-30	40-1180	1-20	45-259	10-18
35-1055	10-46	35-1294T94	10-50	35-1545T91	1-302	40-1185	5-10	45-261	4-14
35-1059	6-18	35-1298T91	4-20	35-1545T91	4-2	40-1186	5-10	45-262	4-14
35-1060	4-40	35-1298T92	4-20	38-841	10-27	40-1187	10-508	45-263	4-14
35-1061	10-47	35-1301T91	10-47	38-841	10-33	40-1188	10-508	45-264	4-5
35-1062	10-47	35-1302T91	6-5	38-841	10-39	40-330T1	10-1	45-264	7-4
35-1064	3-15	35-1304T91	10-18	38-845	10-29	40-373T91	10-2	45-265	4-13
35-1066	4-40	35-1305T91	4-4	38-845	10-34	40-375T1	10-2	45-267	4-11
35-1070	4-40	35-1308T91	4-9	38-847	10-28	41-185	1-1	45-21351	4-10
35-1071	4-40	35-1309T91	4-8	38-847	10-34	41-185	1-3	45-21351	10-19
35-1076	3-13	35-1320T91	10-22	38-849	10-27	41-189	1-1	45-25251	4-12
35-1079	1-36	35-1320T91	10-23	38-850	10-27	41-189	1-3	45-25251	10-18
35-1090	10-8	35-1321T91	10-25	38-851	10-29	41-189T1	1-1	45-25251	10-18
35-1091	10-9	35-1322T91	10-13	38-851	10-34	41-189T1	1-3	45-25251	10-19
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35-1092	10-8	35-1324T91	10-13	38-859	10-28	42-016	4-40	451411	10-33
35-1093	10-8	35-1325T91	10-13	38-861	10-30	42-025	4-37	451411	10-39
35-1097T91	10-7	35-1326T92	10-36	38-862	10-30	42-026	4-37	454493	4-2
35-1108	5-6	35-1331T91	8-2	38-862T1	10-27	42-049	4-40	454774	1-28

454862	4-52	50-1356T1	10-51	51-418	4-17	54-305	1-2	60-1157T2	2-23
456540	9-19	50-1457T1	10-51	51-419	4-17	54-306	1-4	60-1157T1	5-4
456836	8-13	50-1458T1	10-51	51-420	8-4	54-307	1-2	60-1157T2	1-19
50-038	10-1	50-1458T1	10-51	51-428	8-4	54-307	1-4	60-1157T2	1-10
50-1020	8-8	50-1479T1	8-12	51-431	8-4	54-308	1-2	60-1171T1	1-10
50-1123T1	8-3	50-1479T1	8-11	51-433	8-4	54-308	1-4	60-1475T1	1-34
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50-1065T1	10-3	50-1477T91	8-16	51-442	4-16	54-312	1-31	60-1500T1	10-21
50-1075T1	8-5	50-1478T91	8-16	51-449	8-1	54-313	1-31	60-1554T91	1-30
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50-1035T1	10-32	50-1481T91	8-17	51-458	4-5	54-350	1-7	60-1578T1	1-20
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50-1099T1	10-32	50-2160T1	10-502	51-473	8-1	54-356	1-7	60-1584T1	1-20
50-1099T1	10-40	50-2161T91	10-505	51-475	4-17	54-357	1-7	60-1585T1	1-20
50-1100T91	10-32	50-2162T1	10-508	51-475	4-17	54-358	1-7	60-1586T1	1-20
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50-1186T1	8-10	50-2185T1	8-6	51-473T1	8-1	54-376	1-24	60-1600T1	1-21
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50-1234T1	10-50	51-128	4-2	52-046	8-4	54-391	1-25	60-1609T1	1-21
50-1235T1	10-50	51-128	4-3	52-048	4-40	54-400	1-26	60-1610T1	1-21
50-1236T1	10-50	51-128	4-39	52-070	8-4	54-402	1-1	60-1611T1	1-23
50-1289T91	8-13	51-128	4-39	52-075	8-4	54-403	1-8	60-1612T1	1-20
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50-1298T91	8-5	51-243	3-11	52-132	4-41	54-406	1-16	60-1621T1	1-23
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Foreword

This Parts Manual replaces the prior editions of the ST Series III Parts Manuals issued in February, 1979 and February 1982. Please discard these prior editions as this new manual will supercede it for those models listed herein. Also, included in this manual is information on the newer models manufactured since the prior editions were published.

This manual is grouped into eleven major sections:

CAB	FUEL
ELECTRICAL	HYDRAULICS
CLIMATE	DECALS
DRIVE TRAIN	OPTIONS & LUBRICANTS
BRAKES	NUMERICAL INDEX
FRAME	

Major sections within the manual are listed on the Contents page. Specific areas within these major sections are shown on a Contents page (identified by the black tab on the outside edge of the page) at the beginning of each major section. Included at the beginning of some major sections are Serial Number (S/N) break pages containing all the pertinent S/N breaks for the part number information contained within that section.

The Numerical Index (part number to page number cross-reference) is provided at the back of this manual.

It is important that customers include the model and S/N when ordering replacement parts for tractors that may have questionable parts usage.

With a few exceptions, such as belts & filter elements, all engine parts that are not referenced or do not have Steiger part numbers should be purchased from your local Caterpillar or Cummins dealer.

When the terms "Right" and "Left" are used in this manual, the orientation is from the operator's seat, facing forward.

When changes are made in the model(s) covered in this manual, Steiger Tractor, Inc. may periodically elect to supplement the existing manual. Pages will be marked to indicate whether they are replacement pages or added pages. Replacement pages will show the revision number, date and the same page number as the original issue. Discard the original page and insert the replacement page in its place. Added pages will carry the revision number, date, an existing page number and an alphabetical suffix (for example, 2-32-A). Insert these pages after the existing page.

The following code system has been developed for use in determining the correct part number when S/N breaks are required. These codes will be listed on the S/N break pages at the beginning of each major section of the manual as well as on the corresponding page of the manual where the part number is shown:

CODE	CODE IDENTIFICATION
A.	Error Correction - New P/N is correct for all uses.
B.	Superseded - Old P/N can be used for all models, but order new P/N when stock is depleted.
C.	Superseded - Old P/N CAN be used on all models prior to S/N break only. New P/N MUST be used after S/N break. Order new P/N when old stock is depleted as it will work for all.
D.	Superseded - Old P/N MUST be used on models prior to S/N break. New P/N will fit models after the S/N break only.
E.	Superseded - Old P/N is not used any longer; the new P/N is to be used in ALL cases. Old P/N should be removed from existing inventory. It is recommended that the old part not be used under any circumstances.
F.	Superseded - P/N is superseded on this model or models only. Old P/N can be used for other applications and models but new P/N must always be used in this code.
G.	New Part - Additional P/N or P/Ns is/are used after the S/N break.
H.	P/N Duplication - New P/N will now be used in all cases. Renumber old stock with new P/N.

To determine which part numbers require S/N breaks, check the part description to see if it has a letter suffix behind it (example: Steering Cylinder **(C)**). If it does, check the corresponding page and part number on the S/N break page at the beginning of the section and you will find the appropriate S/N break. Codes A, E & H do not require a S/N break. Code B occasionally will not have a break listed if the part is not an assembly w/service parts in it.

IMPORTANT: *There will be numerous S/N breaks included in this parts manual. Therefore, it is imperative before ordering any replacement parts that you check the S/N break pages at the beginning of each major section. Care should also be used to check whether or not a tractor prior to the S/N break may have been updated with the later parts through a field change.*

Throughout this parts manual there are numerous "Notes". These "Notes" are designed to do one of three things; to clarify unusual part number situations (example: ST 225, ST 250 & ST 270 Clutch Assembly), to identify parts arrangements that could cause part number confusion (example: S-34 Axle Differentials and how to identify them) and to provide kit part numbers that will update or replace no longer available parts (example: K-598 Differential). Whenever you see a "Note" on a page, please make sure you read it in its entirety for questions you have regarding that page may well be clarified in the "Note".

In this manual you will find numerous situations where the engine usage is the determining factor for parts usage. In those cases, the models will not be listed unless there is an exception. The current engines & ST models breakdown is as follows:

3306 Cat	ST 225, 250 & 270
3406 Cat	ST 280 & 325
855 Cummins	ST 220, 251, 251CP, 280, 310 & 310 CP
903 Cummins	ST 320 & 350

Should new models be added later, it is extremely likely that the engine affected parts would remain the same unless notification to the contrary is issued.

NOTE: The illustrations shown within this manual are to be utilized for parts reference only and are not intended to be used for installation or assembly purposes.

Express or freight claims of shortage or breakage should be made to the transportation company upon receipt of goods.

It is the policy of Steiger Tractor, Inc. to improve products whenever possible and practical to do so; therefore, the part numbers included in this manual are subject to change without notice. Steiger Tractor, Inc. reserves the right to make part number changes or add improvements in the design or construction of products at any time without incurring the obligation to notify owners of these changes or install such changes on products previously delivered.

Some of the illustrations and information found in this manual were supplied to Steiger Tractor, Inc by machine component suppliers.

Throughout this manual the following abbreviations are used:

AR - As Required
NAP - Not Available as Parts
NSS - Not Serviced Separately
UNC — Unified National Coarse
UNF — Unified National Fine
ASN - At Serial Number
BSN - Before Serial Number

NOTE: The stationary Transfer Case w/the Caliper Brakes became standard on all ST models at Serial Number 2000 (ASN2000). This change affects many items such as Drive-shafts, Brakes, Transfer Case, Center Yoke, Engine Mts, Hyd Hoses & Wiring. Whenever "ASN2000" appears, it is referencing the Serial No. break for this change.

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Section 1 - Cab

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1-1	01-2982	01-3702	C	ST 220 ST 250 ST 270 ST 251 ST 310 ST 320 ST 325 ST 350	103-00218 to 103-00229 104-00297 to 104-00330 105-00426 to 105-00585 106-00223 to 106-00326 107-00456 to 107-00561 108-00197 to 108-00211 123-00331 to 123-00547 139-00001 to 139-00020
1-3 1-4	01-3702	01-8638	D	ST 220 ST 250 ST 270 ST 251CP ST 310CP ST 320 ST 325 ST 350	103-00230 to 10-00230 104-00331 to 104-00331 105-00586 to 105-00899 106-00327 to 106-00754 107-00562 to 107-00915 108-00212 to 108-00212 123-00548 to 123-00908 139-00021 to 139-00060
1-3 1-4	01-8638 04-546 04-545	01-8638T5 01-3382 01-3383	D D D	ST 220 ST 225 ST 250 ST 270 ST 251CP ST 310CP ST 320 ST 325 ST 350 ST 280 ST 280	103-00230 109-00001 104-00331 105-00900 106-00755 107-00916 108-00212 123-00909 139-00061 110-00001 111-00001
1-7	54-359 54-360 54-361	01-1483 01-1484 01-1482	D D D	ST 220 ST 250 ST 270 ST 251 ST 310 ST 320 ST 325 ST 225 ST 350	103-00187 to 103-00211 104-00266 to 104-00330 105-00330 to 105-00967 106-00166 to 106-00924 107-00314 to 107-00999 108-00187 to 108-00211 123-00087 to 123-01048 109-00001 to 109-00063 139-00001 to 139-00065

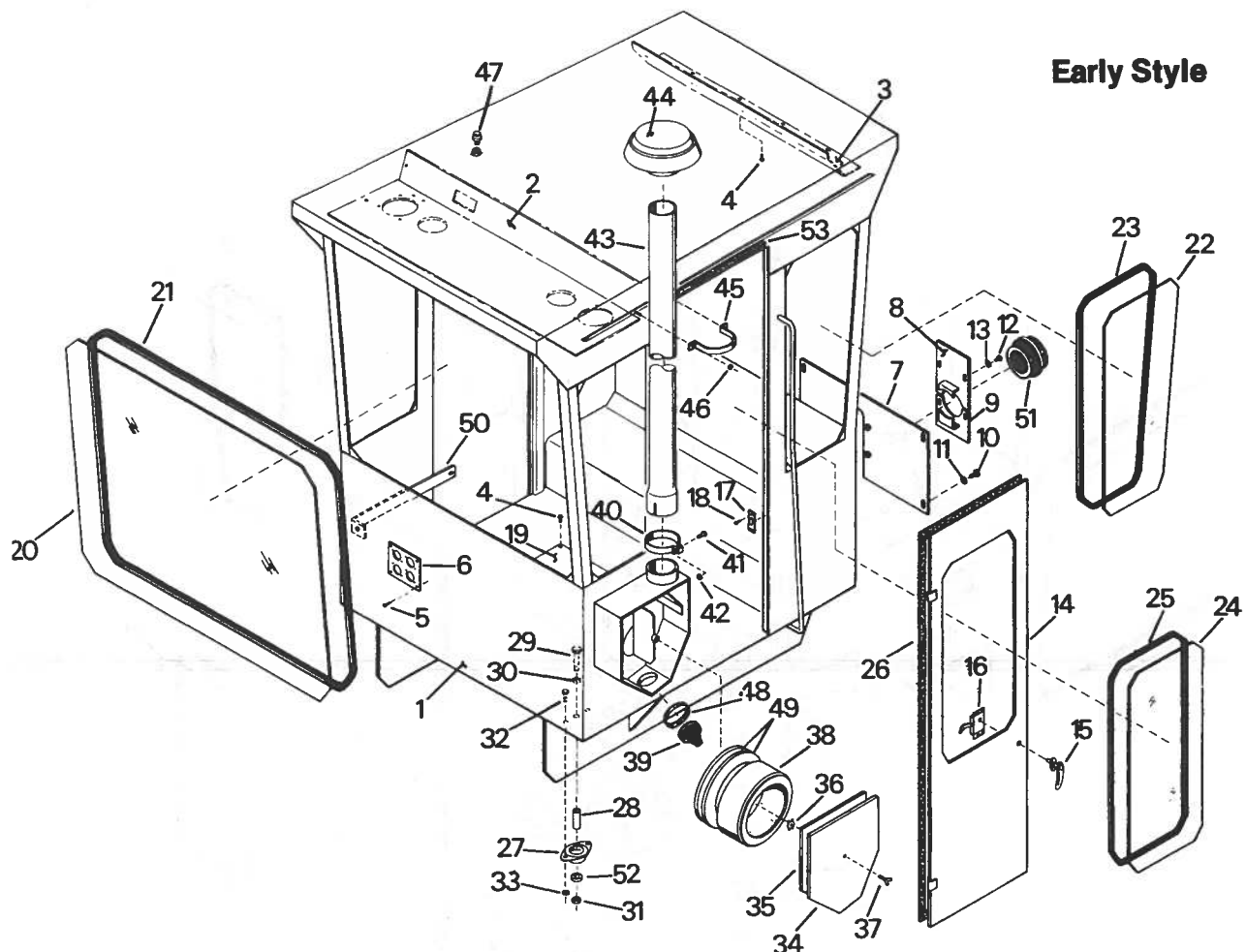
Page	Old P/N	New P/N	Code	Model	SN Break
1-7	01-1483	60-1937T1	D	ST 220	not used
1-17 & 1-19	24-195	60-1098T91	D	ST 225	109-00063
1-16 & 1-19	01-7608	60-1427T2	D	ST 250	104-00331
				ST 270	105-00968
				ST 251CP	106-00925
				ST 310CP	107-01000
				ST 320	not used
				ST 350	139-00066
				ST 280	110-00001
				ST 280	111-00001
				ST 325	123-01049
1-7	01-1484	01-3532T1	D	ST 220	103-00218
		or		ST 225	109-00001
		01-3532T2		ST 250	104-00297
	54-357	01-3533T2	D	ST 270	105-00426
	54-355	01-4562T1	D	ST 251	106-00223
1-36	01-2962	01-3509	D	ST 310	107-00456
				ST 320	108-00197
				ST 325	123-00331
				ST 350	139-00001
				ST 280	110-00001
				ST 280	111-00001
1-7	54-358	01-9726	C		*There is no recorded S/N Break for these. They are the temporary perforated vinyl style used prior to S/N Breaks below w/the older style console as shown on page 1-27
	54-349	01-8719	C		
	54-356	01-8718	C		
	54-354	01-9727*	C		
	54-352	01-9723*	C		
	01-1482	01-9728*	C		
	54-353	01-9725*	C		
1-7	01-9723	01-8109	D	ST 220	103-00230
	01-9728	01-8104	D	ST 250	104-00331
	01-9725	01-8103	D	ST 270	105-00586
	01-9727	01-8110	D	ST 251CP	106-00327
	01-8612	01-8108	D	ST 310CP	107-00562
		01-8112	D	ST 320	108-00212
		01-8111	D	ST 325	123-00548
1-27	54-404	01-8671	D	ST 350	139-00021
1-28				ST 225	109-00001
				ST 280	110-00001
				ST 280	111-00001
1-8	18-1606	01-3508	D	ST 220	103-00218 to 103-00229
1-9				ST 250	104-00297 to 104-00330
1-12				ST 270	105-00426 to 105-00476
1-14				ST 251	106-00223 to 106-00290
				ST 310	107-00456 to 107-00516
				ST 320	108-00197 to 108-00211
				ST 325	123-00331 to 123-00369

Page	Old P/N	New P/N	Code	Model	SN Break
1-9 1-14	01-3508	01-7630	E	ST 220 ST 250 ST 270 ST 251CP ST 310CP ST 325 ST 350 ST 225 ST 280 ST 280	103-00230* 104-00331* 105-00477* 106-00291 107-00517 123-00370* 139-00011* 109-00001 110-00001 111-00001 *approximate SN break
1-10		01-5969 60-1575T1	G G	ST 220 ST 250 ST 270 ST 251 ST 310 ST 320 ST 325 ST 225 ST 350	103-00218 to 103-00229 104-00297 to 104-00330 105-00426 to 105-00970 106-00223 to 106-00955 107-00456 to 107-01020 108-00197 to 108-00211 123-00331 to 123-01068 109-00001 to 109-00092 139-00001 to 139-00065
1-10	01-5969 60-1575T1	60-1471T1 60-1469T2	D D	ST 220 ST 225 ST 250 ST 270 ST 251CP ST 310CP ST 320 ST 350 ST 280 ST 280 ST 325	103-00230 109-00093 104-00331 105-00971 106-00956 107-01021 not used 139-00066 110-00001 111-00001 123-01069
1-16	24-201 24-207	01-7608 01-7607	D D	ST 220 ST 250 ST 270 ST 251 ST 310 ST 320 ST 325 ST 350 ST 225	not used not used 105-00507 to 105-00967 106-00291 to 106-00924 107-00517 to 107-00999 not used 123-00415 to 123-001048 139-00011 to 139-00065 109-00001 to 109-00062

Page	Old P/N	New P/N	Code	Model	SN Break
1-19	60-1098T91	60-1098T92	B	ST 220 ST 225 ST 250 ST 270 ST 251CP ST 310CP ST 320 ST 325 ST 350 ST 280 ST 280	not used 109-02065 104-02014 105-02013 106-02013 107-02039 not used 123-02054 139-01501 110-02032 111-02038
1-25	22-734	01-3839	B	ST 220 ST 250 ST 270 ST 251 ST 310 ST 320 ST 325	103-00187 to 103-00229 104-00266 to 104-00330 105-00330 to 105-00439 106-00166 to 106-00290 107-00314 to 107-00516 108-00187 to 108-00211 123-00159 to 123-00347
1-25	01-3839 22-726	01-4455 01-4222	D D	ST 220 ST 225 ST 250 ST 270 251CP ST 310CP ST 320 ST 325 ST 350 ST 280 ST 280	not used 109-00001 104-00331 105-00440 106-00291 107-00516 not used 123-00348 139-00001 110-00001 111-00001
1-27 1-28	54-404	01-8671	D		See Page 1-B

Page	Old P/N	New P/N	Code	Model	SN Break
1-29	Radio & mts, Early style	Radio & mts, Later style	D	ST 220	not used
1-30				ST 225	109-00108
				ST 250	104-00331
				ST 270	105-00983
				ST 251CP	106-01050
				ST 310CP	107-01051
				ST 320	not used
				ST 325	123-01093
				ST 350	139-00069
				ST 280	110-00001
	ST 280	111-00001			
1-30 & 1-30A	Radio & mts, Later style	Radio & mts, Motorola	D	ST 220	model discontinued
				ST 225	109-02075
				ST 250	104-02018
				ST 270	model discontinued
				ST 251CP	106-02013
				ST 310CP	107-02043
				ST 320	model discontinued
				ST 325	123-02058
				ST 350	139-01501
				ST 280	110-02035
ST 280	111-02046				
1-31	54-410 29-1000	20-1204T91	C	ST 220	not used
		20-1212T91	C	ST 225	109-00001
		35-1285T91	C	ST 250	104-00331
		35-1284T91	C	ST 270	105-00884
				ST 251CP	106CP-00740
				ST 310CP	107CP-00900
				ST 320	108-00212
				ST 325	123-00877
				ST 350	139-00061
				ST 280	110-0001
		ST 280	111-00001		

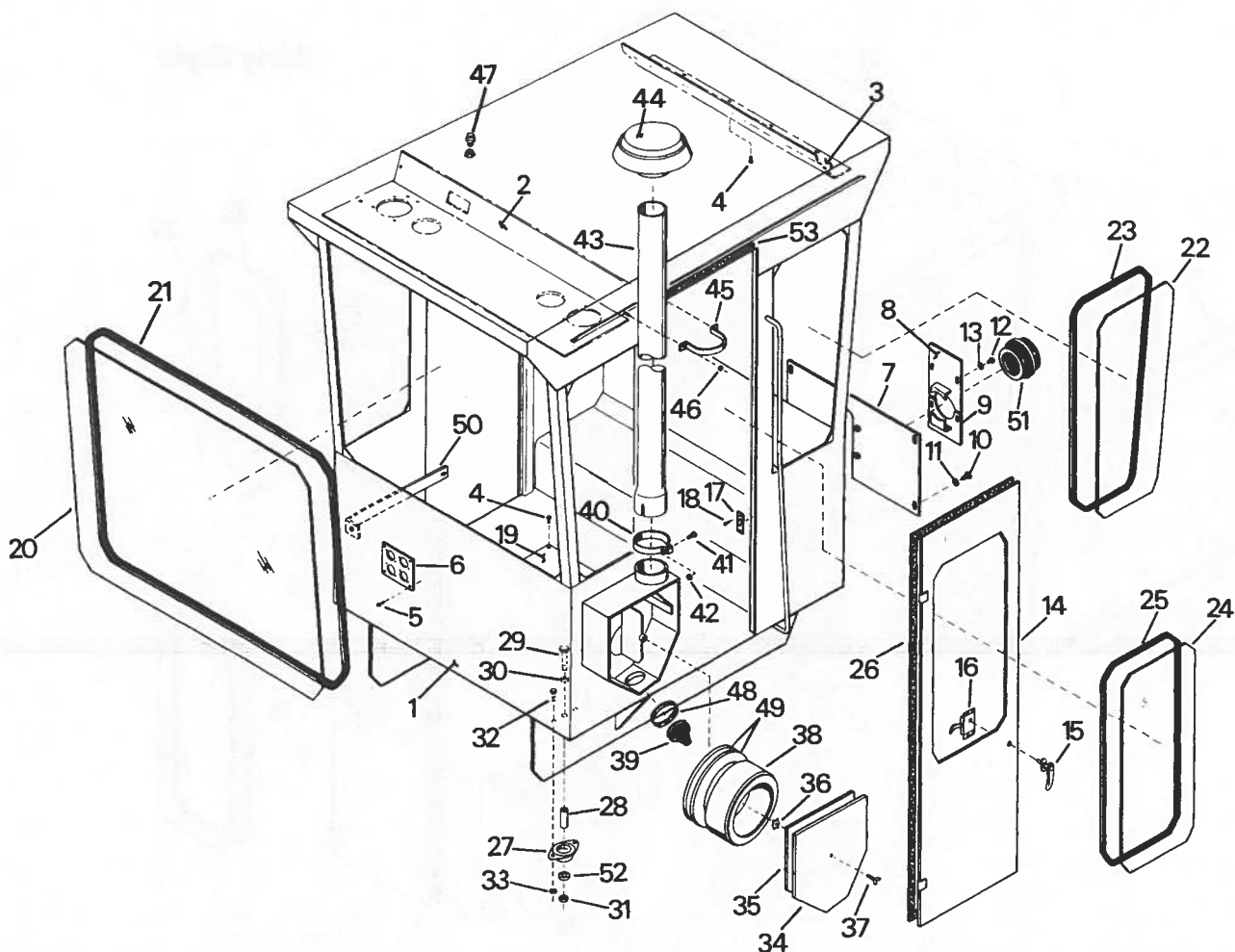
Page	Old P/N	New P/N	Code	Model	SN Break
1-32 & 1-34	04-578 24-214	01-4359T1 02-2524T2 or 02-2524T3	D	ST 220 ST 225 ST 250	not used 109-00001 104-00331
1-32 & 1-35	01-2867	01-4252	D	ST 270 ST 251CP	105-00851 106CP-00573
1-33 & 1-35	01-3685	01-4252	D	ST 310CP ST 320 ST 325 ST 350 ST 280 ST 280	107CP-00811 108-00212 123-00853 139-00061 110-00001 111-00001
1-36	33-063	01-2961	D	ST 220 ST 250 ST 270 ST 251 ST 310 ST 320 ST 325 ST 350 ST 225 ST 280 ST 280	103-00192 104-00266 105-00332 106-00176 107-00332 108-00202 123-00214 139-00001 109-00001 110-00001 111-00001
1-36	01-2962	01-3509			See Page 1-B



Cab

Ref.	Part No.	Description	Qty.
1	01-1042	Cab (C)	1
	01-2982	Cab (C)	
	01-3702	Cab (C)	
	01-8574	Cab	
2	54-404	Console, Front	1
3	54-405	Console, Rear	1
4	19-958	Screw, 1/4 NC x 3/4	16
5	19-131	Screw, #10 NC x 1/2	4
6	54-402	Plate, Bulkhead	1
7	01-1039	Cover Plate	1
8	41-185	Plate	1
9	41-189T1	Plate (41-189) (C) (ASN 2000)	1
10	19-017	Capscrew, 3/8 NC x 1	4
11	19-224	Washer, 3/8	4
12	19-006	Capscrew, 5/16 NC x 3/4	4
13	19-106	Washer, 5/16	4
14	04-546	Door (Left)	1
	04-545	Door (Right)	
15	24-222	Handle, Door	2
16	24-044	Latch (Left)	1
	24-045	Latch (Right)	
17	04-427	Door Stop	2
18	19-5707	Screw, 5/16 NC x 3/4	4

Ref.	Part No.	Description	Qty.
19	04-1052	Floorboard	1
	04-1063	Foam Pad (under Floorboard)	2
	04-1064	Foam Pad (under Floorboard)	2
20	54-260	Glass, Rear & Front	2
21	04-549	Molding	2
22	54-262	Glass, Side	4
23	04-547	Molding	4
24	54-261	Glass, Door	2
25	04-548	Molding	2
26	04-465	Weather Stripping, Door	2
	27-071	Caulking, Weather Stripping	.08g
	24-181	Glue, Weather Stripping	.08g
27	64-215	Isolator	4
28	04-265	Spacer	4
29	19-325	Capscrew, 3/4 NC x 4	4
	19-549	Capscrew, 3/4 NC x 4-1/2 (used on some early ST 320 models only)	
30	19-326	Washer, 3/4	4
31	19-5364	Lock Nut, 3/4 NC	4
32	19-821	Capscrew, 1/2 NC x 1-1/4	8
33	19-082	Lock Nut, 1/2 NC	8

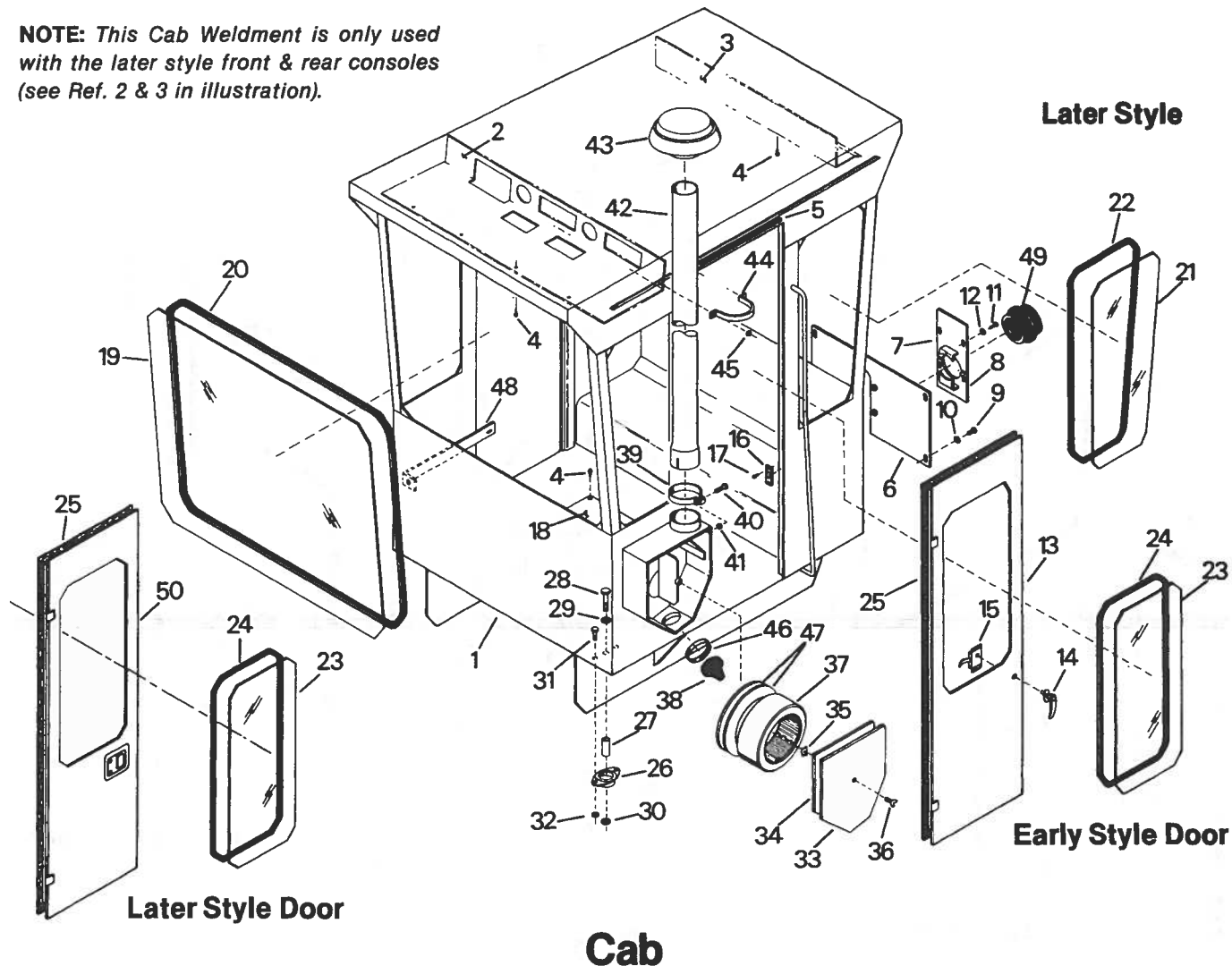


Cab

Ref.	Part No.	Description	Qty.
34-37	54-307	Cover Assembly	1
34	54-303	Cover	1
35	54-412	Seal	1
36	61-104	Retainer	1
37	19-937	Wing Bolt	1
38	54-304T1	Filter	1
39	66-177	Evaculator Valve	1
40	32-315	Clamp (no longer used)	1
41	19-020	Capscrew	1
42	19-078	Nut	1
43	54-306	Stack, Air Intake	1
44	54-305	Cap	1

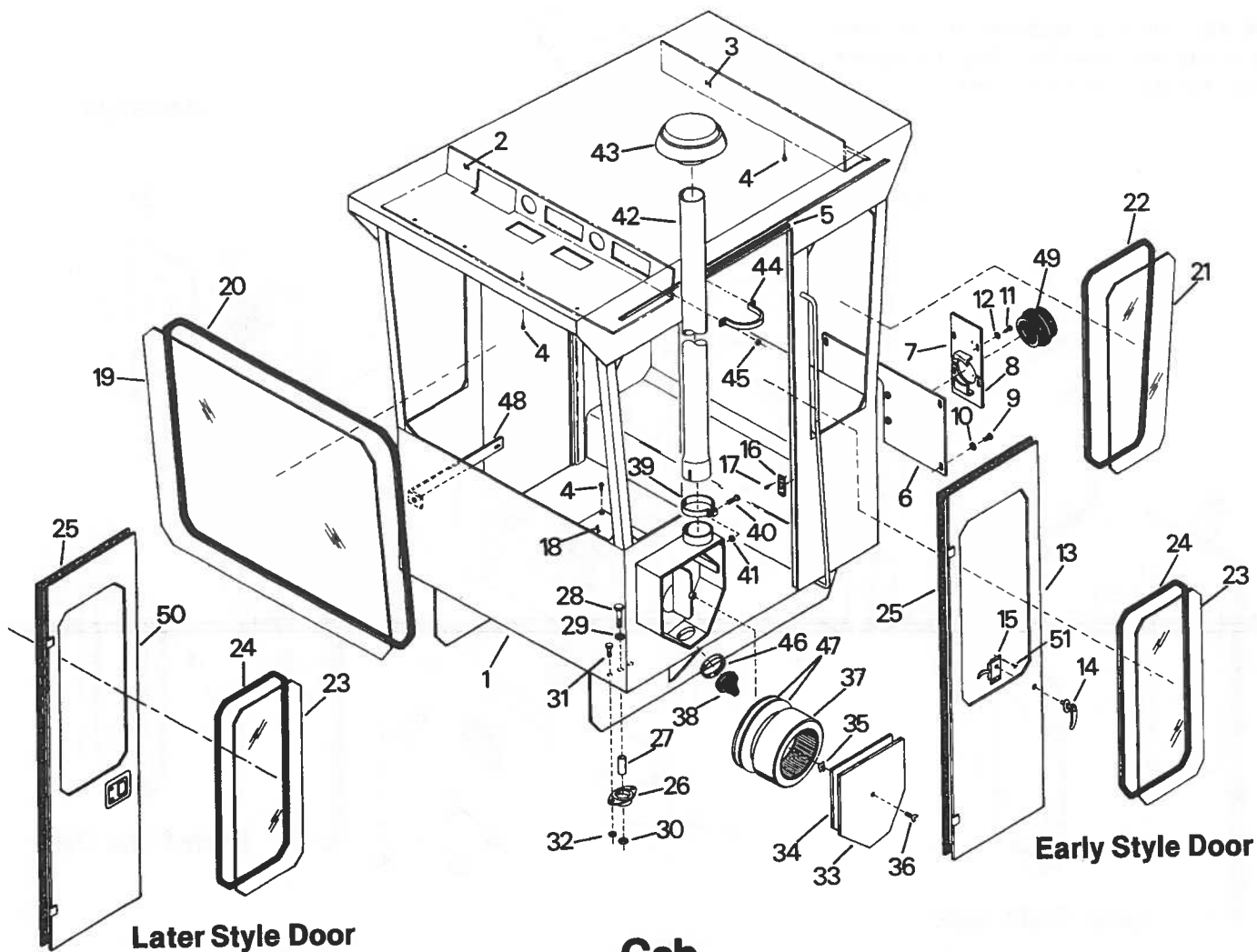
Ref.	Part No.	Description	Qty.
45	54-308	Bracket, Air Intake	1
46	19-076	Nut	2
47	31-1002	Plug, Cab Lift Nut (not used on some later models)	4
48	32-060	Clamp	1
49	54-302T1	Seal	2
50	04-1003	Skirt Bracket	1
51	09-013	Hump Hose	1
52	01-1803	Spacer (used on some early St 320 models only)	4
53	01-3044	Foam Strip	2

NOTE: This Cab Weldment is only used with the later style front & rear consoles (see Ref. 2 & 3 in illustration).



Ref.	Part No.	Description	Qty.
1	01-8638	Cab (Early Style Door) (D)	1
	01-8638T5	Cab (Later Style Door) (D)	
2	01-8671T1	Console, Front	1
3	01-9474T1	Console, Rear	1
4	19-958	Screw	16
5	01-3044	Foam Strip	2
6	01-1039	Cover Plate	1
7	41-185	Plate	1
8	41-189T1	Plate (41-189) (C) (ASN 2000)	1
9	19-017	Capscrew	4
10	19-107	Washer	4
11	19-006	Capscrew	4
12	19-106	Washer	4
13	04-546	Door (Left) (D)	1
	04-545	Door (Right) (D)	
14	24-222	Door Handle (Early Door)	2
15	24-044	Latch (Left)	1
	24-045	Latch (Right) (Early Door)	

Ref.	Part No.	Description	Qty.
16	04-427	Door Stop (Early Door)	2
	01-3180	Door Stop (Later Door)	
	01-4167	Shim (not shown) (Later Door)	4
17	19-5707	Screw	4
18	04-1052	Floorboard	1
	04-1063	Foam Pad (under Floorboard)	2
	04-1064	Foam Pad (under Floorboard)	2
19	54-260	Glass, Rear & Front	2
20	04-549	Molding	2
21	54-262	Glass, Side	4
22	04-547	Molding	4
23	54-261	Glass, Door	2
24	04-548	Molding	2
25	04-465	Weather Stripping, Door	2
	27-071	Caulking, Weather Stripping	.08g
	24-181	Glue, Weather Stripping	.08g
26	64-215	Isolator	4
27	04-265	Spacer	4
28	19-325	Capscrew	4

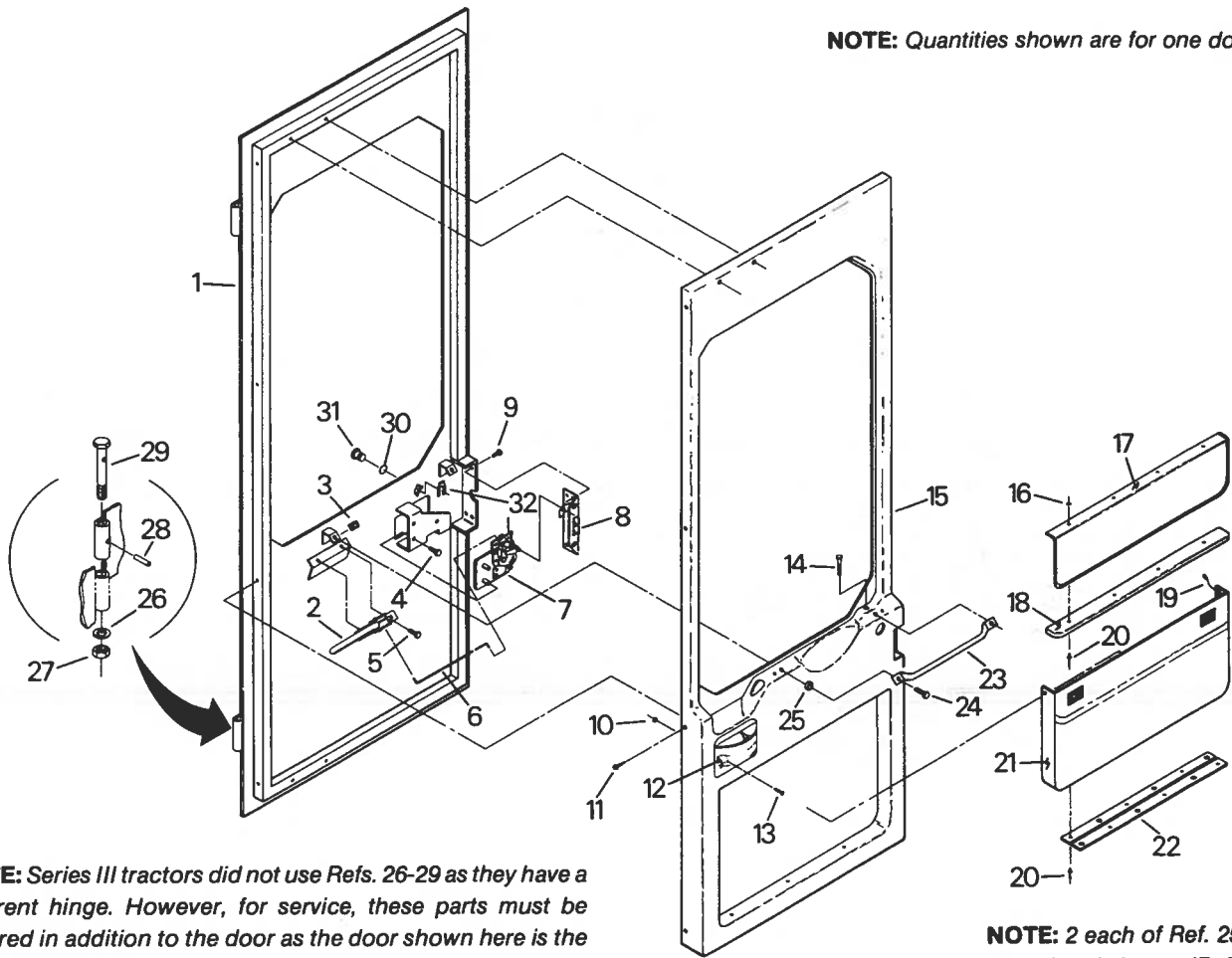


Cab

Ref.	Part No.	Description	Qty.
29	19-326	Washer	4
30	19-5364	Lock Nut	4
31	19-821	Capscrew	8
32	19-082	Lock Nut	8
33-36	54-307	Cover Assembly	1
33	54-303	Cover	1
34	54-412	Seal	1
35	61-104	Retainer	1
36	19-937	Wing Bolt	1
37	54-304T1	Filter	1
38	66-177	Evaculator Valve	1
39	32-315	Clamp (no longer used)	1
40	19-020	Capscrew	1

Ref.	Part No.	Description	Qty.
41	19-078	Nut	1
42	54-306	Stack, Air Intake	1
43	54-305	Cap	1
44	54-308	Bracket, Intake Stack	1
45	19-076	Nut	2
46	32-060	Clamp	1
47	54-302T1	Seal	2
48	04-1003	Skirt Bracket	1
49	09-013	Hump Hose	1
50	01-3382	Door Frame (Left) (D)	1
	01-3383	Door Frame (Right) (D)	
		(see Page 1-5)	
51	01-6685	Lockset, Door (not shown)	2
	19-127	Pop Rivet	AR

NOTE: Quantities shown are for one door only.



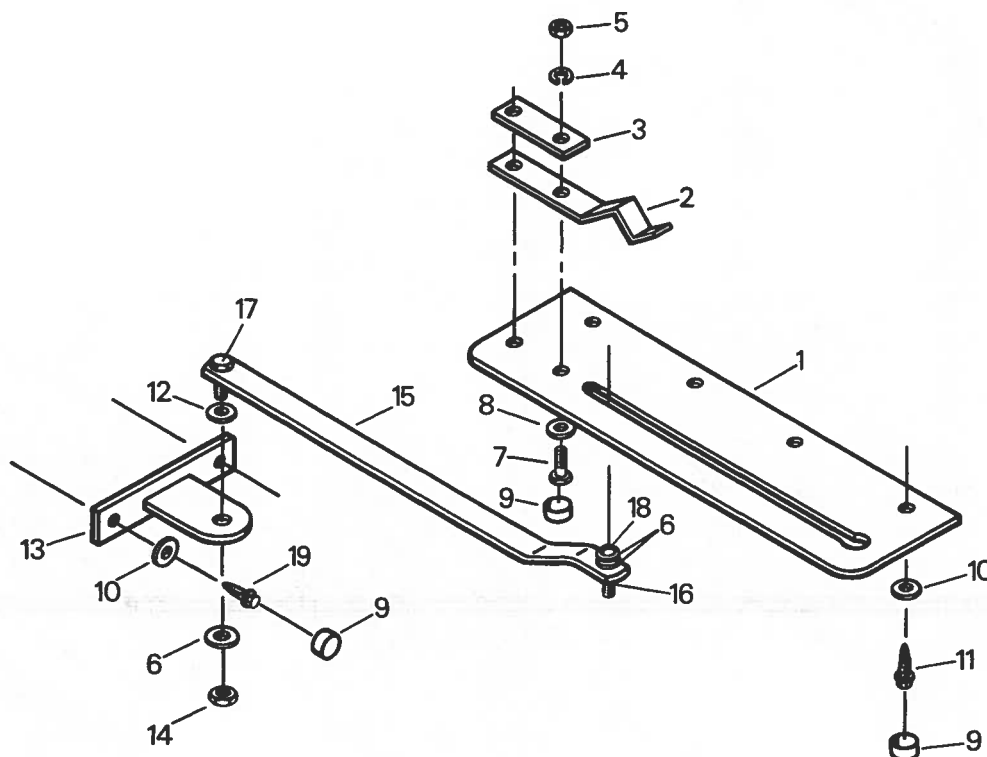
NOTE: Series III tractors did not use Refs. 26-29 as they have a different hinge. However, for service, these parts must be ordered in addition to the door as the door shown here is the only one available.

NOTE: 2 each of Ref. 25 must be ordered along w/Ref. 15.

Door Assembly

Ref.	Part No.	Description	Qty.
1	01-3382T1	Door Frame (Left)	1
	01-3383T1	Door Frame (Right)	
2	01-4024	Inside Handle Assy (Left)	1
	01-4025	Inside Handle Assy (Right)	
3	19-378	Clip Nut	2
4	19-717	Capscrew	3
5	19-891	Socket Head Capscrew	2
6	01-4023	Release Rod	1
7	01-3183	Outside Handle Assy (Left)	1
	01-3184	Outside Handle Assy (Right)	
8	01-3181	Latch Assy (Left)	1
	01-3182	Latch Assy (Right)	
9	19-417	Capscrew	4
10	19-1015	Nut	2
11	19-131	Tapping Screw	8
12	64-095	Ash Tray (Left side only)	1
13	19-1000	Machine Screw	2
14	01-3254	Plunger Knob	1

Ref.	Part No.	Description	Qty.
15	01-3219T2	Panel (Left)	1
	01-3197T2	Panel (Right)	
16	19-708	Washer	16
17	01-3186	Flap	1
18	01-3187	Flap Support	1
19	01-3200	Retainer	2
20	19-157	Pop Rivet	16
21	01-3198	Pouch	1
22	01-3185	Hinge	1
23	01-9155	Handle	1
24	19-5557	Capscrew	2
25	19-6060	Spacer	2
26	19-5434	Washer	2
27	19-341	Lock Nut	2
28	9417915	Spring Pin	2
29	02-6502T1	Capscrew	2
30	01-4074	Rubber Washer	1
31	01-6685	Lockset	1
32	01-4788	Mounting Clip	1

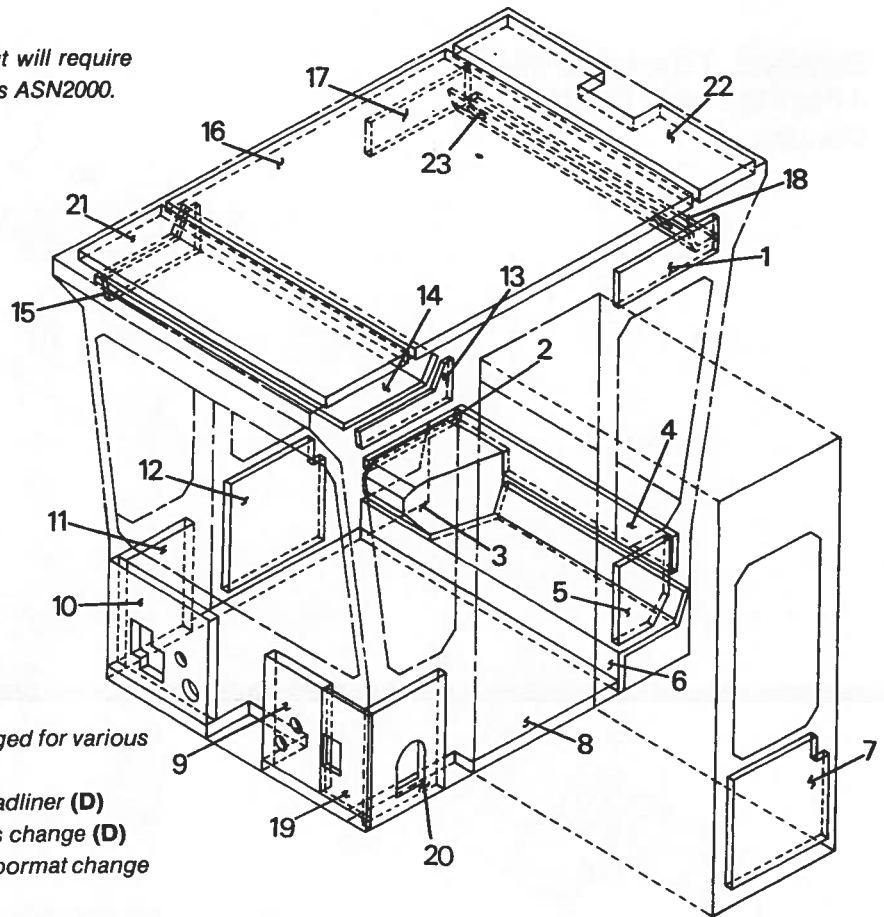


Door Stop Assembly

Ref.	Part No.	Description	Qty.
1	01-1649	Plate, Mounting	1
2	01-1658	Spring, Door Latch	1
3	01-1657	Plate	1
4	19-115	Lock Washer	2
5	19-076	Nut	2
6	19-5434	Washer	3
7	19-002	Capscrew	2
8	01-4456	Caplug Washer	2
9	01-3990	Caplug	8
10	01-3991	Caplug Washer	6

Ref.	Part No.	Description	Qty.
11	19-957	Screw, Tapping	4
12	19-5370	Wave Washer	1
13	01-1653	Bracket	1
14	19-090	Lock Nut	1
15-18	60-1165T1	Connecting Link Assy (also contains Ref. 6)	1
15	60-1138T1	Link, Connecting	1
16	19-823	Nut	2
17	19-026	Capscrew	1
18	114705	Machine Screw	1
19	19-5707	Tapscrew	2

NOTE: 01-3532T1 Floormat can be used up but will require some modification for the Park Brake on tractors ASN2000.



NOTE: Cab Insulation & Floormats have changed for various reasons and are explained as follows:

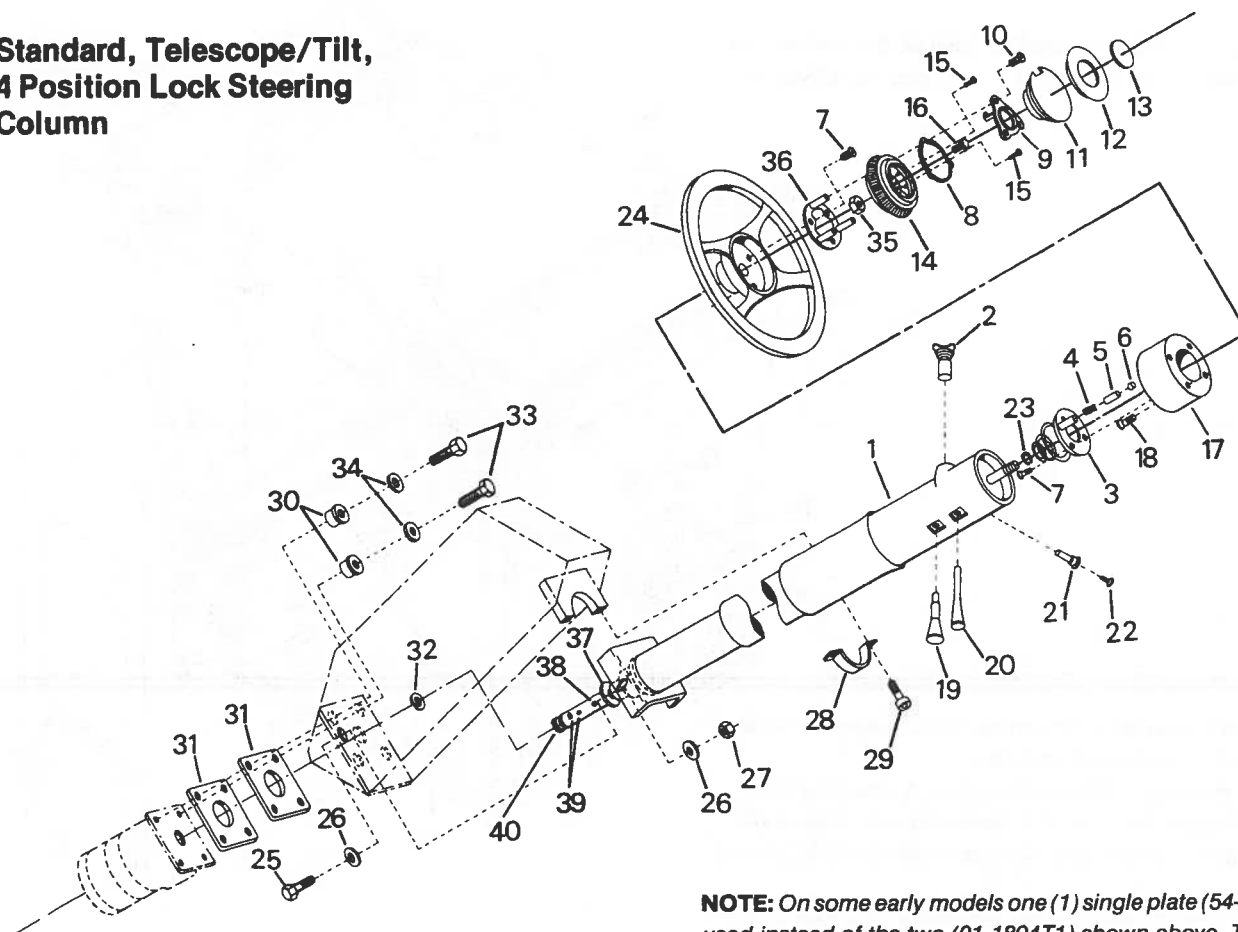
1. ROPS Redesign changed Floormats & Headliner (D)
2. Steering Column, Clutch & Brake Controls change (D)
3. Seat Mt. for new 60-1098T91 seat caused floormat change (D)
4. Q Pack insulation no longer available, changed to Perforated Vinyl Covering on items 13-18 & 20. (C)
5. Top consoles changed causing changes to 14, 16-18 & addition of 21-23 (D)

Cab Insulation & Floormats

Ref.	Part No.	Description	Qty.
1	54-358	Insul. (Left Upper Rear)	1
1 ⁴	01-9726	Insul. (Left Upper Rear)	1
2	54-347	Insul. (Bottom Rear)	1
3	01-1410	Insul. (Hyd. Cover)	1
	01-1411	Insul. (Front Cover)	1
	01-2090	Insul. (Side Cover)	1
	01-2091	Insul. (Top Cover)	1
4	54-350	Insul. (Bottom Rear)	1
5	54-351	Insul. (Left Rear)	1
6	54-359	Floormat, Rear (D)	1
6 ¹	01-1483	Floormat (D)	1
6 ³	60-1937T1	Floormat (D)	1
7	54-362	Pouch, LH (w/early door)	1
8	54-360	Floormat, Front (D)	1
8 ¹	01-1484	Floormat, Front (D)	1
8 ²	01-3532T2	Floormat, Front (D) (see Note)	1
9	54-357	Insul. (Wrap-A-Round) (D)	1
9 ²	01-3533T2	Insul. (Wrap-A-Round) (D)	1
10	54-355	Insul. (Wrap-A-Round) (D)	1
10 ²	01-4562T1	Insul. (Wrap-A-Round) (D)	1
11	54-348	Insul. (Front Rt. Side)	1
12	54-363	Pouch, RH (w/early Door)	1
13	54-349	Insul. RH Upper Front (C)	1

Ref.	Part No.	Description	Qty.
13 ⁴	01-8719	Insul. RH Upper Front (C)	1
14	54-352	Insul., Front Console (C)	1
14 ⁴	01-9723	Insul., Front Console (C) (D)	1
14 ⁵	01-8109	Insul., Front Console (D)	1
15	54-356	Insul., RH Upper Front (C)	1
15 ⁴	01-8718	Insul., RH Upper Front (C)	1
16	54-361	Insul., Headliner (D)	1
16 ¹	01-1482	Insul., Headliner (D) (C)	1
16 ⁴	01-9728	Insul., Headliner (C) (D)	1
16 ⁵	01-8104	Insul., Headliner (D)	1
17	54-353	Insul., RH Upper Rear (C)	1
17 ⁴	01-9725	Insul., RH Upper Rear (C) (D)	1
17 ⁵	01-8103	Insul., RH Upper Rear (D)	1
18	54-354	Insul., Rear Cover (C)	1
18 ⁴	01-9727	Insul., Rear Cover (C) (D)	1
18 ⁵	01-8110	Insul., Rear (D)	1
19	25-1005	Insul., Module Front	1
20	01-8612	Insul., Module Side	1
21 ⁵	01-8108	Insul., Top Front	1
22 ⁵	01-8112	Insul., Top Rear	1
23 ⁵	01-8111	Insul., Speakers	2
24	01-9839	Insul., Orbitrol (not shown)	1
	27-001	Adhesive (gal)	1

Standard, Telescope/Tilt, 4 Position Lock Steering Column



NOTE: On some early models one (1) single plate (54-409) was used instead of the two (01-1804T1) shown above. This plate (54-409) is still available even though it is not shown.

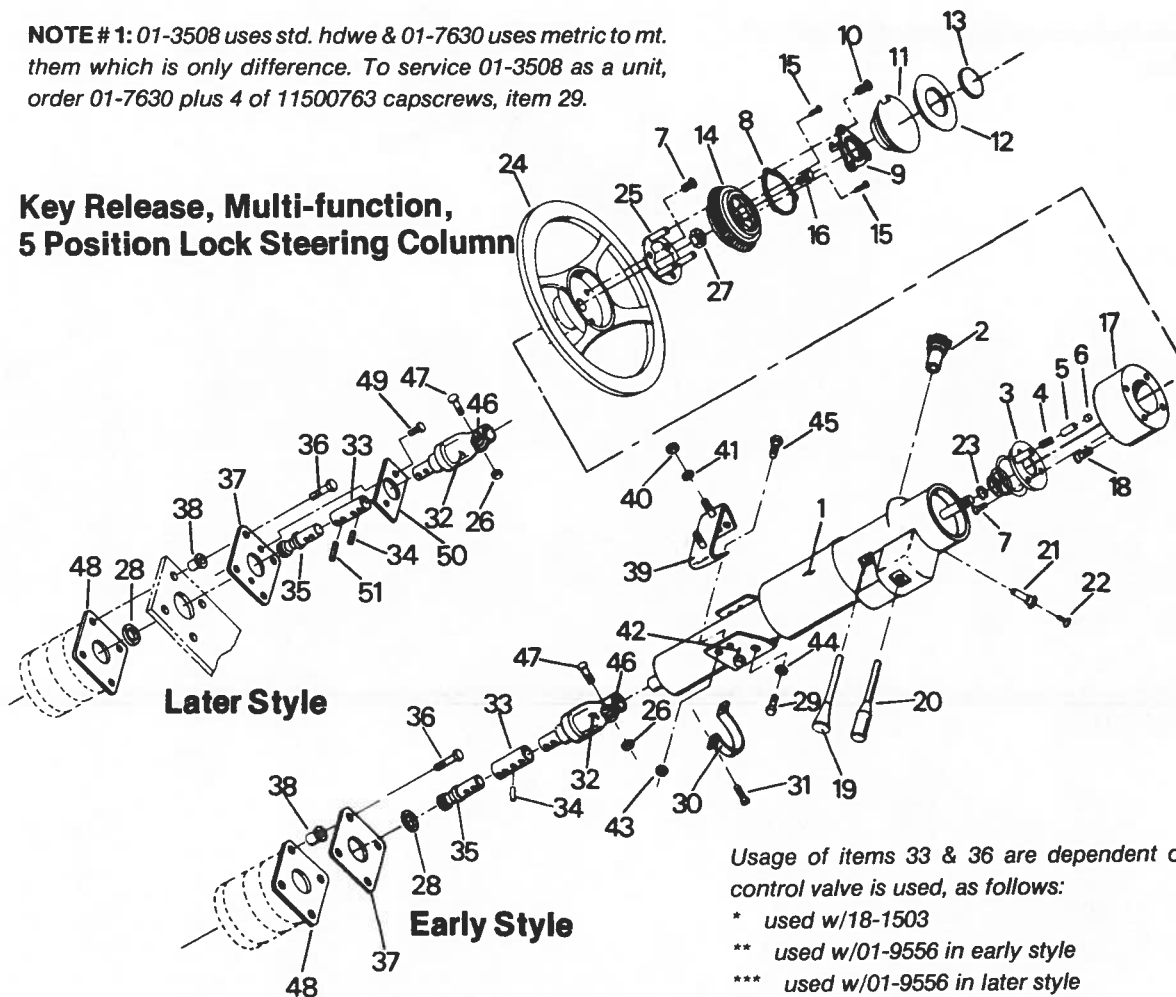
Steering Controls & Mounting

Ref.	Part No.	Description	Qty.
1	18-1606	Steering Column Assy (D) (incl Refs. 35, 37-40)	1
2	22-752	Key Lock Assy	1
3	18-1556	Lower Contact Assy	1
4	18-1557	Spring	1
5	18-1558	Eyelet	1
6	18-1559	Insulator	1
7	19-1014	Machine Screw	6
8	18-1560	Shim	3
9	18-1561	Upper Contact Assy	1
10	19-946	Machine Screw	3
11	18-1562	Retainer	1
12	18-1563	Cap	1
13	26-541	Emblem	1
14	18-1564	Telescope Control Lever	1
15	19-955	Machine Screw	2
16	18-1565	Locking Screw	1
17	18-1566	Extension	1
18	19-945	Machine Screw	4
19	18-1567T1	Tilt Control Lever Assy	1
20	18-1568	Turn Signal Lever Assy	1

Ref.	Part No.	Description	Qty.
21	01-4500	Hazard Switch Knob	1
22	19-956	Machine Screw	1
23	18-1570	Retainer	1
24	18-1571	Steering Wheel (incl Ref. 7 & 36)	1
25	19-017	Capscrew	2
26	19-224	Washer	4
27	19-078	Nut	2
28	54-403	Clamp	1
29	19-960	Capscrew	2
30	18-511	Rubber Mount	4
31	01-1840T1	Plate (see Note)	2
32	54-408	Seal	1
33	19-021	Capscrew	4
34	19-500	Washer	4
35	19-1026	Nut (incl w/Ref. 1)	1
36	18-1740	Spacer	1
37	18-1613	Washer	1
38	19-175	Roll Pin	1
39	19-151	Roll Pin	2
40	18-1602	Spline Shaft	1

NOTE # 1: 01-3508 uses std. hdwe & 01-7630 uses metric to mt. them which is only difference. To service 01-3508 as a unit, order 01-7630 plus 4 of 11500763 capscrews, item 29.

Key Release, Multi-function, 5 Position Lock Steering Column

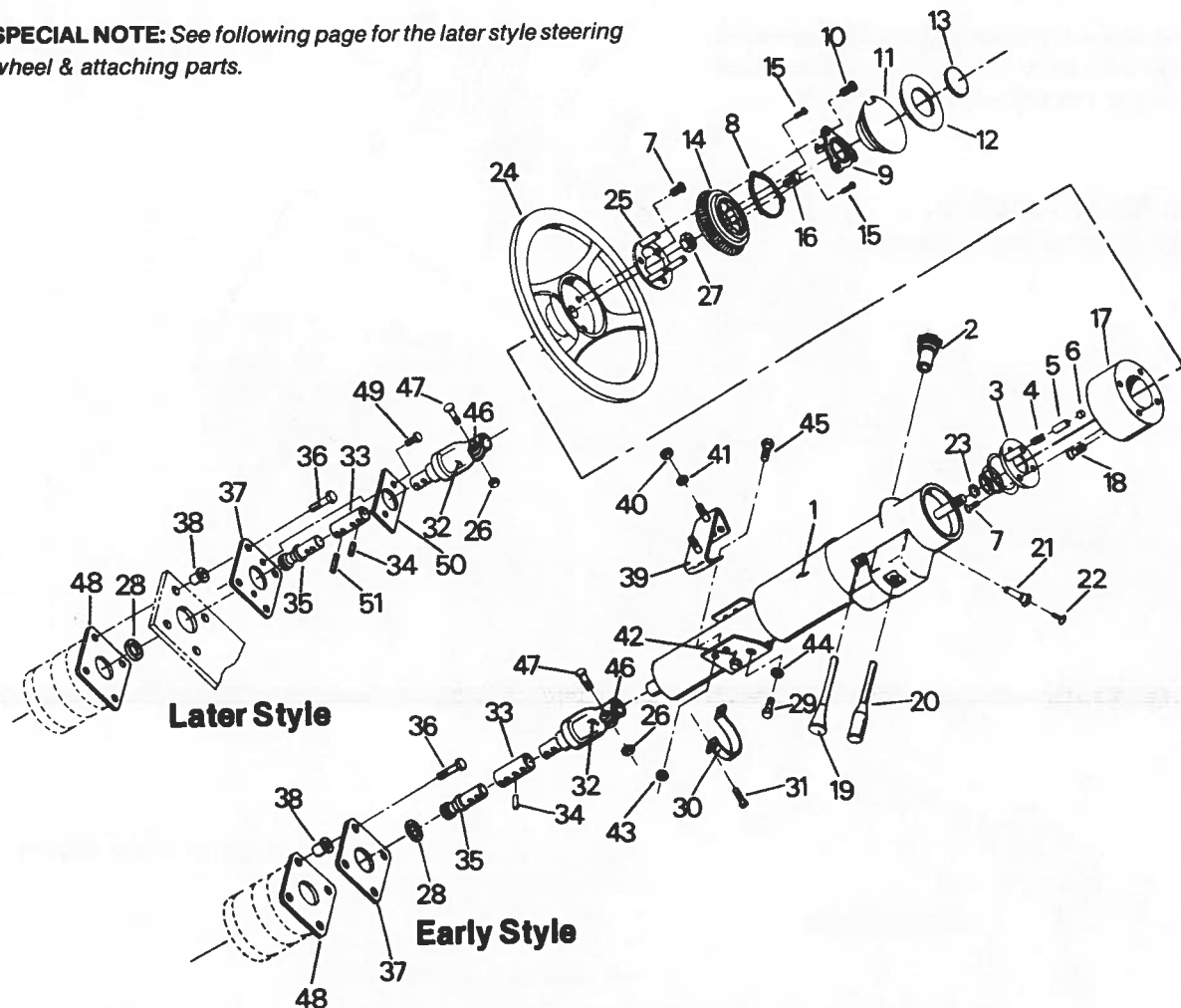


Steering Controls & Mounting

Ref.	Part No.	Description	Qty.
1	01-3508	Column Assy (see Note #1)(E)	1
	01-7630	Column Assy (see Note #1)(E)	
2	22-752	Lock Assy	1
	01-4464	Lockset (contains Keys & Locks for Column & Doors)	1
3	18-1556	Contact Assy, Lower	1
4	18-1557	Spring	1
5	18-1558	Eyelet	1
6	18-1559	Insulator	1
7	19-1014	Screw, #10 NF x 3/8	6
8	18-1560	Shim	3
9	18-1561	Contact Assy, Upper	1
10	19-946	Screw, #8 NC x 3/8	3
11	18-1562	Retainer	1
12	18-1563	Cap	1
13	26-541	Emblem	1
14	18-1564	Telescope Control	1
15	19-955	Screw, #10 NF x 3/4	2
16	18-1565	Screw, Locking	1
17	01-3889	Extension	1
18	19-945	Screw, #8 NC x 1/2	4
19	18-1567T1	Lever Assy, Tilt Control	1
20	01-4188T1	Lever Assy, Turn Signal	1
21	01-4500	Knob, Hazard	1

Ref.	Part No.	Description	Qty.
22	19-5456	Screw	1
23	18-1570	Retainer	1
24	18-1571	Wheel, Steering (incl 7 & 25)	1
25	18-1740	Spacer	1
26	7810280	Nut	1
27	19-1026	Nut (incl w/1)	1
28	54-408	Seal	1
29	19-288	Capscrew, 5/16 NC x 5/8 (use w/Column 01-3508)	4
	11500763	Capscrew, M6.3.1 x 16 MM (Use w/Column 01-7630)	4
30	01-3412	Clamp	1
	02-3816T1	Spacer, (not shown) (used w/Clamp on some early models)	1
31	19-891	Capscrew, 1/4 NC x 1/2 Skt Hd	2
32	01-3417	Shaft, Steering	1
33	01-3413	Collar*	1
	01-9558	Collar**	1
	02-3813T1	Collar***	1
34	19-151	Roll Pin	4/3
35	01-3414T1	Shaft, Spline	1

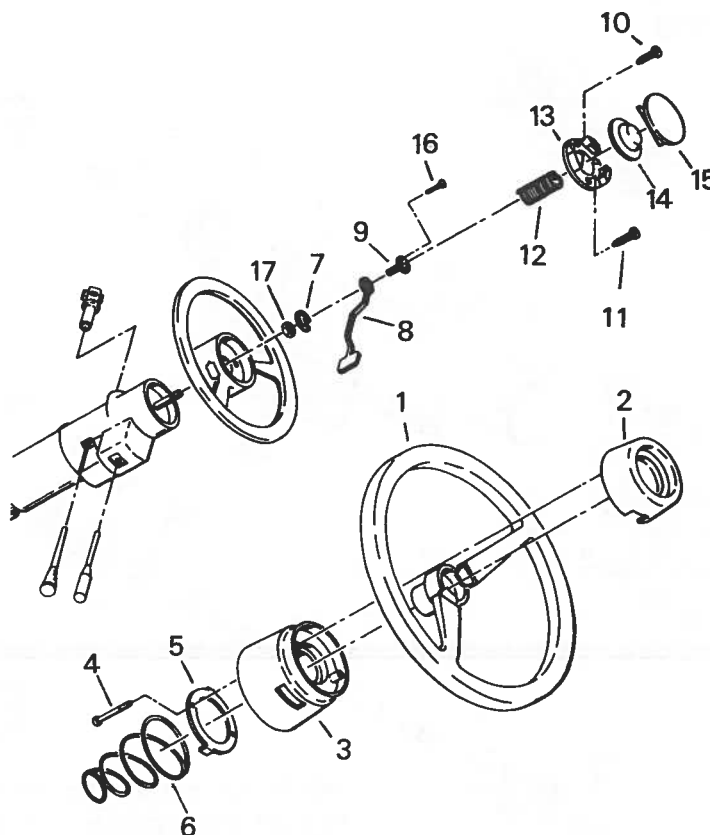
SPECIAL NOTE: See following page for the later style steering wheel & attaching parts.



Steering Controls & Mounting

Ref.	Part No.	Description	Qty.
36	19-019	Capscrew, 3/8 NC x 1-1/2*	4
	19-021	Capscrew, 3/8 NC x 2**	4
	19-924	Capscrew, 3/8 NC x 2-1/2***	4
37	01-1804	Plate (qty 2 with Steering Control Valve P/N 18-1503) (Early Style)	1
	01-1804T1	Plate (Later Style)	
38	01-3528	Mount, rubber	4
39	01-5969	Plate (Early Style) (D)	1
	60-1471T1	Plate (Later Style) (D)	
40	19-341	Lock Nut, 3/8 NC	2
41	19-107	Washer, 3/8	2
42	60-1575T1	Plate (Early Style) (D)	1
	60-1469T2	Plate (Later Style) (D)	

Ref.	Part No.	Description	Qty.
43	19-802	Lock Nut, 5/16 NC	4
44	19-700	Washer, 3/8	4
45	19-006	Capscrew, 5/16 NC x 3/4	4
46	7809433	Clamp	1
47	7803464	Capscrew	1
48	01-9557	Plate (used with Steering Control Valve P/N 01-9556)	1
49	19-717	Capscrew, 1/4 NC x 5/8	2
50	02-3768T1	Plate	1
51	19-5669	Roll Pin	1



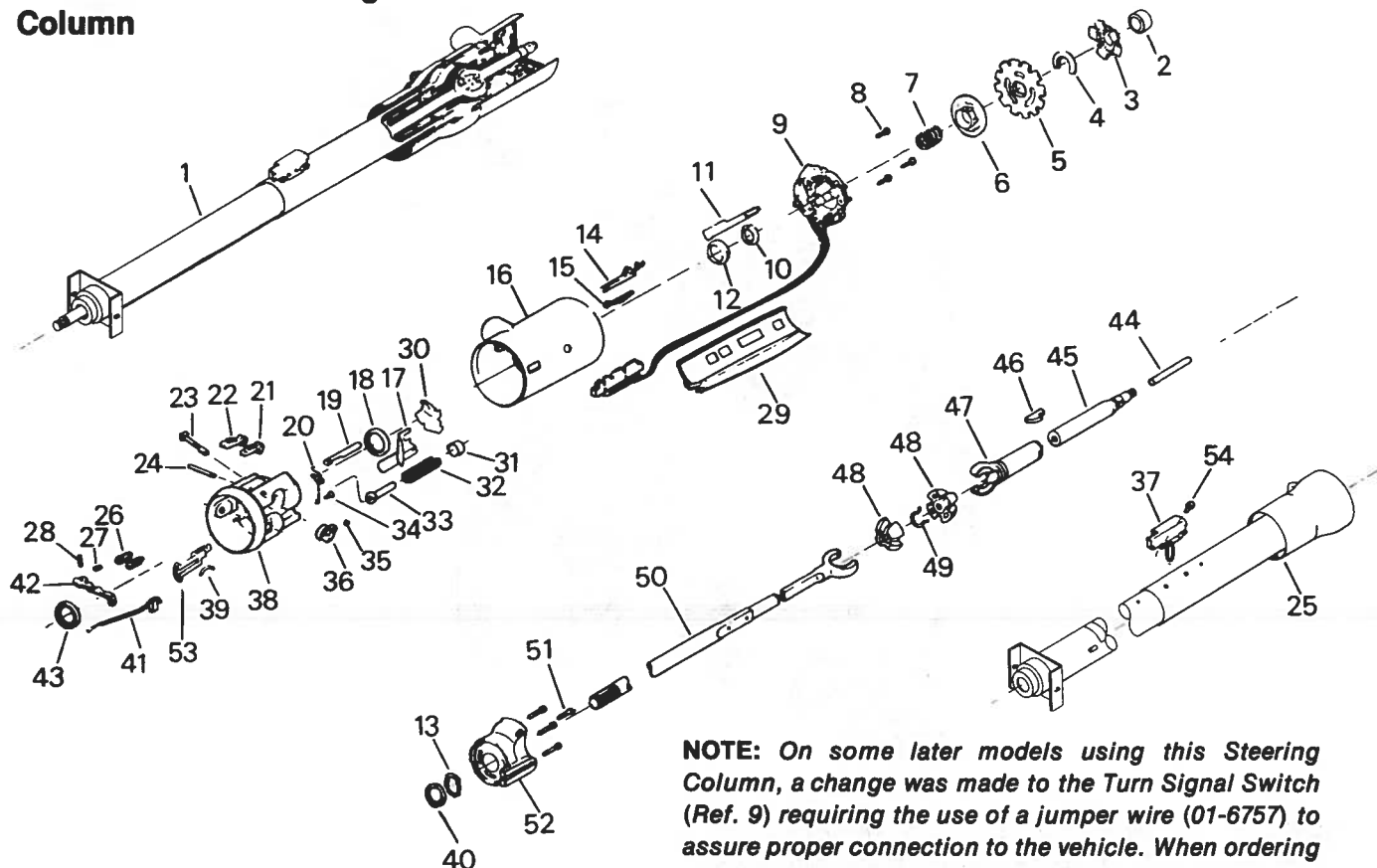
NOTE: This steering wheel and parts came into use approximately Oct. 1, 1982. It is used w/Column on preceding page.

Steering Wheel & Attaching Parts - Later Style (after Serial No. 2524)

Ref.	Part No.	Description	Qty.
1-6	02-3755T92	Steering Wheel Assy (02-3755T91) (B)	1
1	60-1827T2	Steering Wheel (60-1827T1) (B)	1
2	60-1828T1	Upper Hub Cover	1
3	60-1829T1	Lower Hub Cover	1
4	19-5791	Tapping Screw	2
5	60-1830T1	Spring Retainer	1
6	60-1831T1	Spring	1
7	18-1570	Retainer	1
8	60-1951T1	Release Lever	1

Ref.	Part No.	Description	Qty.
9	18-1565	Locking Screw	1
10	19-6101	Tapping Screw	1
11	9414743	Tapping Screw	3
12	60-1820T1	Spring	1
13	60-1819T1	Plate, Base	1
14	60-1821T1	Contact Cup	1
15	60-1952T2	Horn Button	1
16	19-955	Screw	2
17	19-1026	Nut (incl w/Column)	1

Standard Telescope/Tilt, 4 Position Lock Steering Column

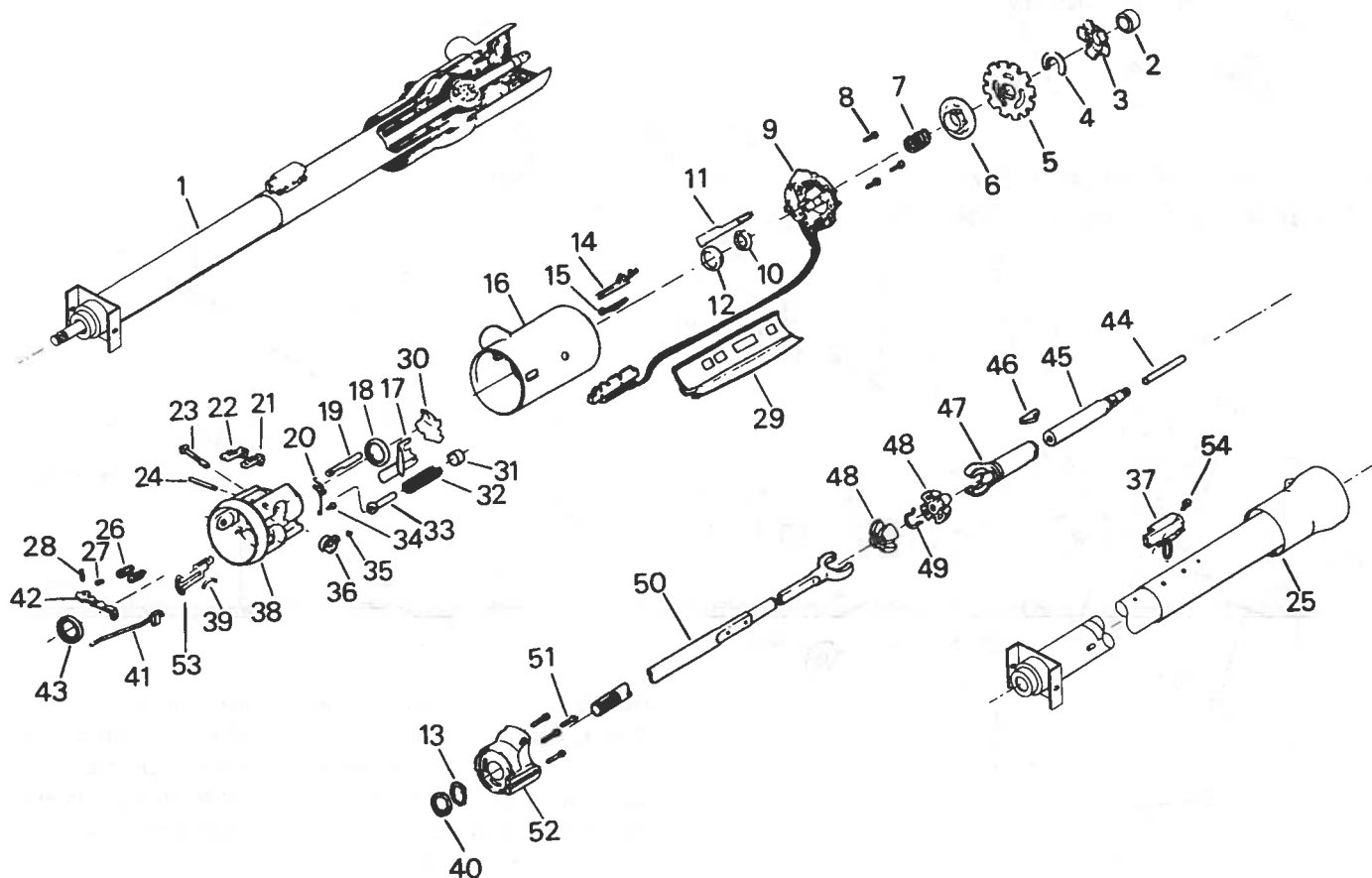


NOTE: On some later models using this Steering Column, a change was made to the Turn Signal Switch (Ref. 9) requiring the use of a jumper wire (01-6757) to assure proper connection to the vehicle. When ordering the switch for early models, order kit P/N 01-6909 which contains the switch and jumper wire.

Steering Column Assembly

Ref.	Part No.	Description	Qty.
1	18-1606	Steering Column Assembly (D)	1
2	01-1320	Bumper, Retracted Steering Shaft	1
3	01-1329	Retainer, Carrier Snap Ring	1
4	01-1331	Retainer, Shaft Lock	1
5	01-1325	Lock, Steering Shaft	1
6	01-1215	Carrier Assembly	1
7	01-1339	Spring, Upper Bearing	1
8	01-1333	Screw	3
9	01-1316	Switch Assy., Turn Signal	1
10	01-1336	Seal, Inner Race	1
11	01-1324	Lever, Hazard Switch	1
12	01-1328	Race, Inner	1
13	01-1332	Ring, Shift Tube Retaining	1
14	01-1314	Switch Assy., Buzzer	1
15	01-1321	Clip, Buzzer Switch Retaining	1
16	01-1322	Cover, Lock Housing	1
17	01-1338	Shield, T/S Lever Opening	1
18	01-1217	Bearing Assembly	1
19	01-1218	Bolt, Lock	1
20	01-1228	Spring, Lock Bolt	1

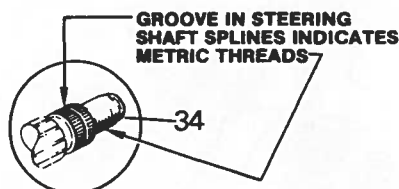
Ref.	Part No.	Description	Qty.
21	01-1226	Shoe, Steering Wheel Lock	1
22	01-1227	Shoe, Steering Wheel Lock	1
23	01-1225	Shaft, Drive	1
24	01-1220	Pin, Dowel	1
25	NSS	Jacket Assembly	1
26	01-1301	Spring, Shoe	2
27	01-1230	Spring, Release Lever	1
28	01-1221	Pin, Release Lever	1
29	01-1327	Protector, Wiring	1
30	01-1337	Shield, Tilt Lever Opening	1
31	01-1330	Retainer, Spring	1
32	01-1340	Spring, Wheel Tilt	1
33	01-1323	Guide, Spring	1
34	01-1223	Screw, Hex Washer Head	1
35	01-1222	Ring, Retaining	1
36	01-1224	Sector, Switch Actuator	1
37	01-1315	Switch Assembly, Ignition	1
38	01-1216	Housing, Assembly (includes 18-24, 26-28, 34-36, 39, 42, 43)	1
39	01-1229	Spring, Rack Preload	1



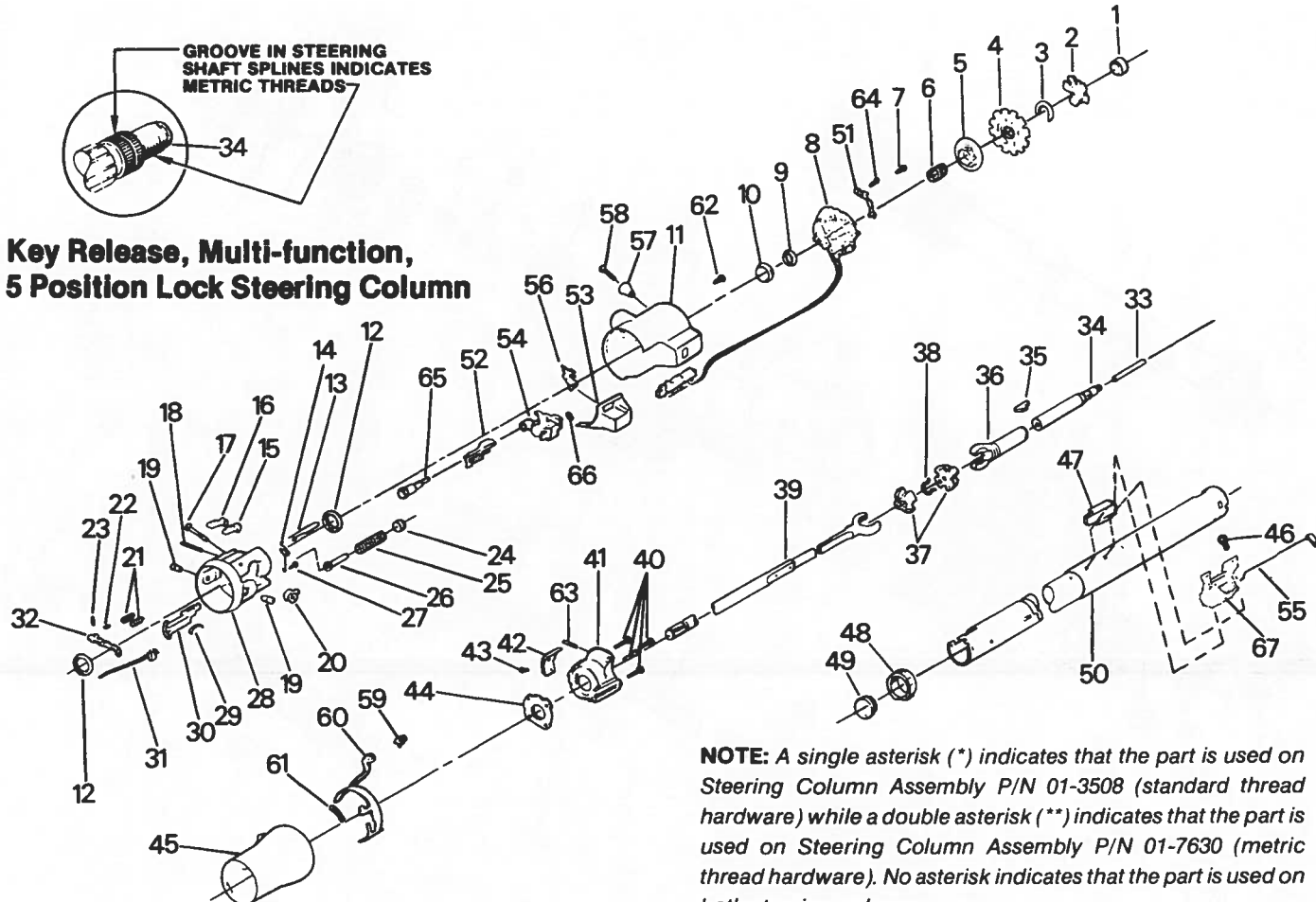
Steering Column Assembly

Ref.	Part No.	Description	Qty.
40	01-1341	Washer, Thrust	1
41	01-1214	Actuator Assembly, Ignition Switch	1
42	01-1219	Lever, Shoe Release	1
43	01-1217	Bearing Assembly	1
44	01-1317	Rod, Telescope Locking	1
45	01-1308	Shaft Assembly	1
46	01-1312	Wedge, Locking	1
47	01-1309	Yoke Assembly	1

Ref.	Part No.	Description	Qty.
48	01-1310	Sphere, Centering	2
49	01-1311	Spring, Joint Preload	1
50	01-1318	Shaft Assembly	1
51	01-1334	Screw, Support	4
52	01-1313	Support Assembly	1
53	01-4477	Rack, Switch Actuator	1
54	01-1335	Screw	2



Key Release, Multi-function, 5 Position Lock Steering Column

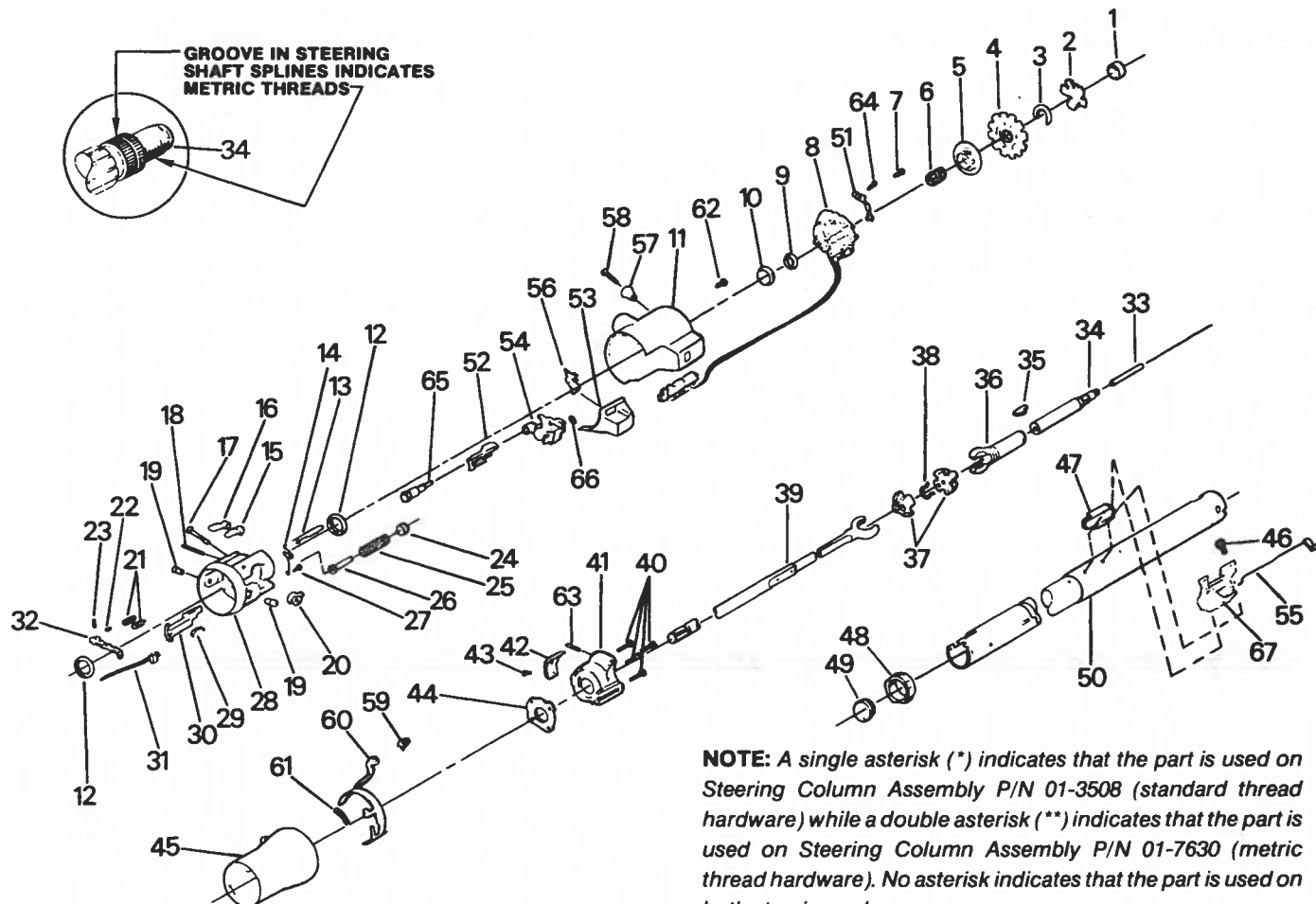


NOTE: A single asterisk (*) indicates that the part is used on Steering Column Assembly P/N 01-3508 (standard thread hardware) while a double asterisk (**) indicates that the part is used on Steering Column Assembly P/N 01-7630 (metric thread hardware). No asterisk indicates that the part is used on both steering columns.

Steering Column Assembly

Ref.	Part No.	Description	Qty.
1-67	01-3508	Steering Column Assembly* (E)	1
1-68	01-7630	Steering Column Assembly** (E)	1
1	01-1320	Bumper Retracted Steering Shaft	1
2	01-1329	Retainer, Carrier Snap Ring	1
3	01-1331	Retainer, Shaft Lock	1
4	01-1325	Lock, Steering Shaft	1
5	01-1215	Carrier Assembly	1
6	01-4507	Spring, Upper Bearing	1
7	01-1333	Screw	3
8	01-4497	Switch Assembly, Turn Signal	1
9	01-1336	Seat, Inner Race	1
10	01-4502	Race, Inner*	1
	01-1328	Race, Inner**	
11	01-4473	Cover, Lock Housing*	1
	02-1454	Cover, Lock Housing**	
12	01-1217	Bearing Assembly	2
13	19-5460	Bolt, Lock	1
14	01-1228	Spring, Lock Bolt	1
15	01-1227	Shoe, Steering Wheel Lock	1
16	01-1226	Shoe, Steering Wheel Lock	1
17	01-1225	Shaft, Drive	1

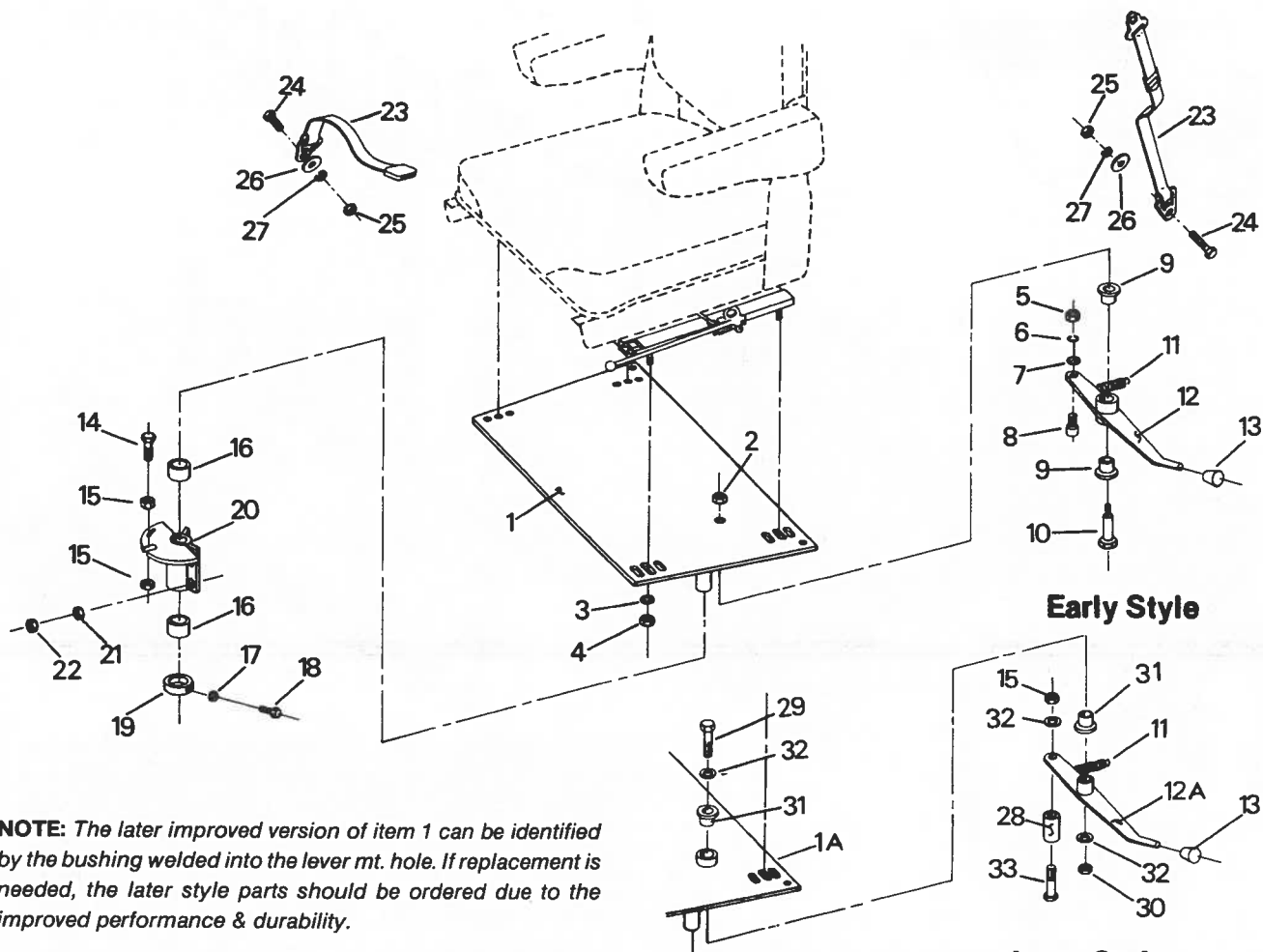
Ref.	Part No.	Description	Qty.
18	01-1220	Dowell Pin	1
19	01-4509	Pin, Pivot	2
20	01-4478	Sector, Switch Actuator	1
21	01-1301	Spring, Shoe	2
22	01-1230	Spring, Release Lever	1
23	01-1221	Pin, Release Lever	1
24	01-1330	Retainer, Spring	1
25	01-4508	Spring, Wheel Tilt	1
26	01-1323	Guide, Spring	1
27	01-1223	Screw	1
28	01-4474	Housing Assembly (includes Ref. 12-18, 20-23, 27, 29, 30 & 32)	1
29	01-1229	Spring, Rack Preload	1
30	01-4477	Rack, Switch Actuator	1
31	01-4465	Actuator Assembly, Switch	1
32	01-4476	Lever, Shoe Release	1
33-39	01-4485	Shaft Assembly, Steering*	1
	02-1463	Shaft Assembly, Steering**	
33	01-4488	Rod, Telescope Locking	1
34	01-4492	Shaft, Upper Steering*	1
	02-1467	Shaft, Upper Steering**	
35	01-1312	Wedge, Locking	1



Steering Column Assembly

Ref.	Part No.	Description	Qty.
36	01-4487	Yoke Assembly, Race & Steering Shaft	1
37	01-1310	Sphere, Centering	2
38	01-1311	Spring, Joint Preload	1
39	01-4486	Shaft Assembly, Yoke & Steering	1
40	01-1334	Screw	4
41	01-4493	Support Assembly (includes Ref. 42, 43 & 63)	1
42	01-4494	Plate, Shroud Retaining	1
43	19-5459	Screw	2
44	01-1326	Plate, Lock	1
45	01-4504	Shroud, Steering Column Housing	1
46	01-1335	Screw	1
47	01-4496	Switch Assembly, Ignition	1
48	01-4468	Adapter, Lower Bearing	2
49	01-4467	Bearing Assembly	1
50	01-4479	Jacket Assembly*	1
	02-1461	Jacket Assembly**	
51	01-4466	Arm Assembly, Signal Switch	1
52	01-4498	Actuator, Dimmer Switch Rod	1

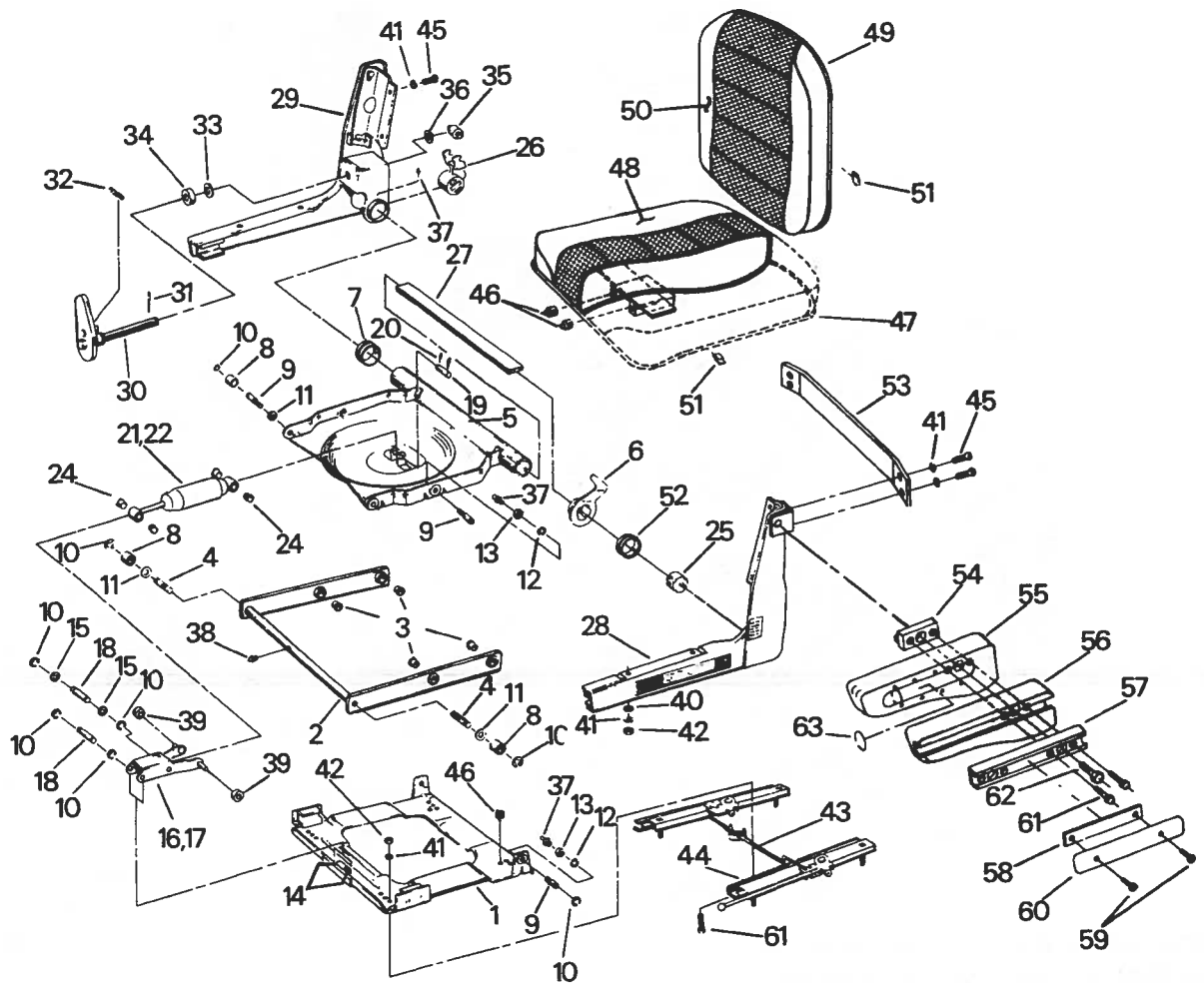
Ref.	Part No.	Description	Qty.
53	01-4469	Cap, Column Housing Cover End	1
54	01-4472	Switch Assembly, Pivot*	1
	02-1452	Switch Assembly, Pivot**	
55	01-4480	Rod Assembly, Dimmer Switch*	1
	02-1462	Rod Assembly, Dimmer Switch**	
56	01-4470	Shield, Tilt Lever Opening	1
57	01-4500	Knob, Hazard Warning	1
58	19-5456	Screw	1
59	01-4499	Finger Pad, Relief Lever	1
60	01-4501	Lever, Key Release	1
61	01-4506	Spring, Key Release	1
62	01-6926	Screw	3
63	01-6925	Dowel Pin	1
64	01-6924	Screw	1
65	01-6928	Pin, Switch Activating Pivot*	1
	02-1455	Pin, Switch Activating Pivot**	
66	01-6927	Spring	1
67	01-7739	Dimmer Switch Assembly	1
68	02-1481	Stud, Dimmer Switch** (not shown)	1



Seat Mt. - Bostrom

Ref.	Part No.	Description	Qty.
1	24-201	Seat Plate (D) (see Note)	1
1A	01-7608	Seat Plate (D)	
2	19-295	Nut, 3/8 NC	1
3	19-700	Washer, 5/16	4
4	19-077	Nut, 5/16 NC	4
5	19-091	Nut, 3/8 NF	1
6	19-117	Lock Washer, 3/8	1
7	19-224	Washer, 3/8	1
8	24-202	Cam Follower	1
9	24-206	Bearing	2
10	19-935	Capscrew, 1/2 NC x 1-1/2	1
11	11-016	Spring	1
12	24-207	Handle (D)(Early Style)	1
12A	01-7607	Handle (D)(Later Style)	1
13	18-646	Knob	1
14	19-799	Capscrew, 3/8 x 1-1/4 NC	1
15	19-078	Nut, 3/8 NC	2
16	54-406	Bearing Journal	2

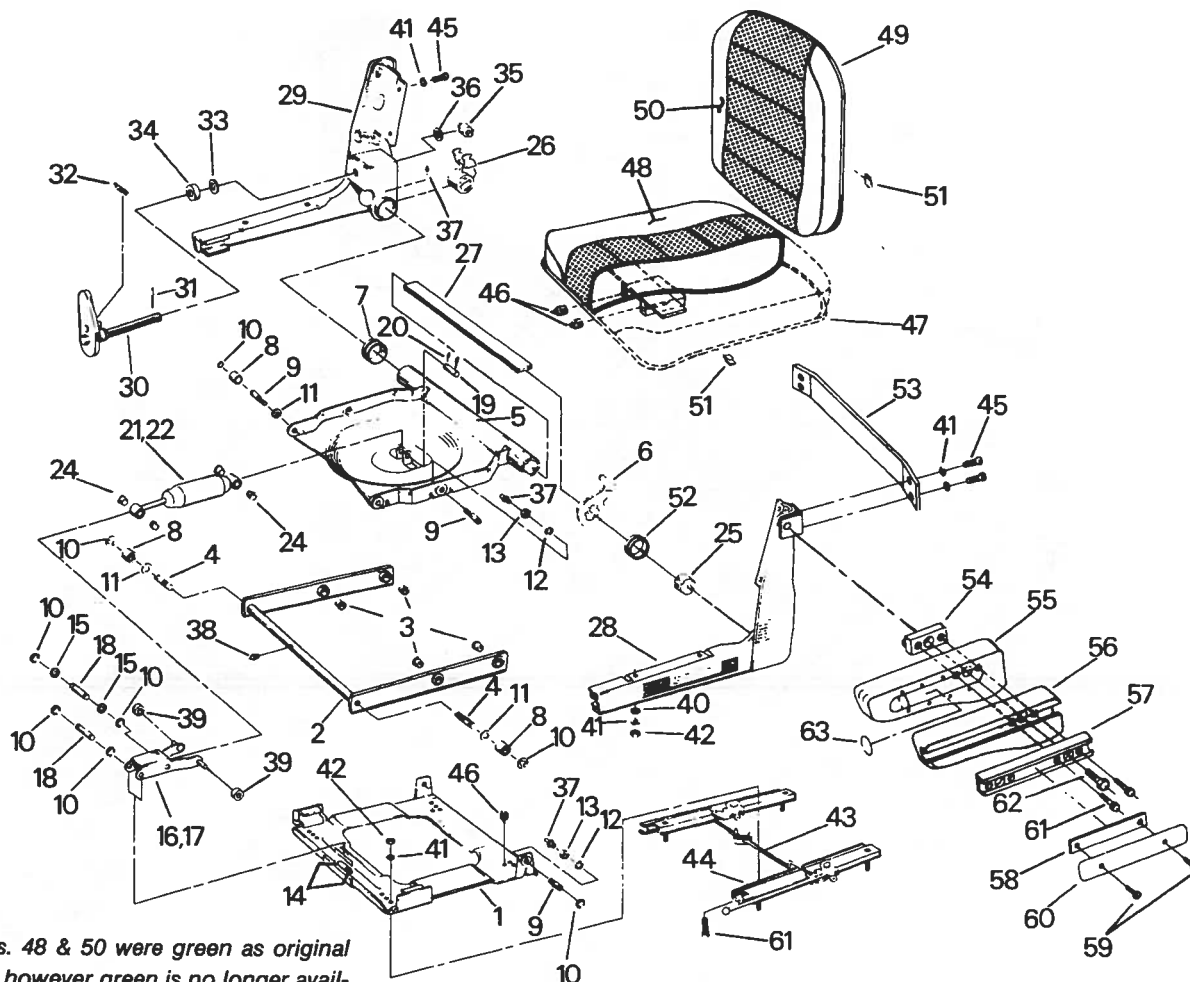
Ref.	Part No.	Description	Qty.
17	19-076	Nut, 1/4 NC	1
18	19-002	Capscrew, 1/4 NC x 1	1
19	24-198	Collar	1
20	04-1050	Tube, Seat Weldment	1
21	19-826	Nut, 1/2 NC	4
22	19-289	Jam Nut, 1/2 NC	4
23-27	24-060	Seat Belt Assembly	1
23	01-2190	Seat Belt	1
24	01-2189	Bolt, Shoulder	2
25	19-092	Nut, 7/16 NF	2
26	24-166	Plate, Reinforcing	2
27	19-118	Lock Washer, 7/16	2
28	01-7618	Bushing	1
29	19-279	Capscrew, 3/8 NC x 3	1
30	19-341	Lock Nut, 3/8 NC	1
31	01-7610	Bearing	2
32	19-107	Washer, 3/8	3
33	19-021	Capscrew, 3/8 NC x 2	1



Seat Assembly

Ref.	Part No.	Description	Qty.
1-63	24-195	Seat Assembly (D)	1
1	24-064	Base Assembly (with Bearings)	1
2	24-066	Outer Lever Assembly (with Pins & Bearings)	1
3	24-067	Bearing, Flanged	4
4	24-068	Drive Pin	2
5	24-069	Lever Assembly Kit (includes Ref. 27 & 52)	1
6	24-070	Bearing, Housing (Left)	1
7	24-071	Bearing, Housing (Right)	1
8	24-073	Roller & Bearing Assembly	4
9	24-074	Stud	6
10	24-075	Snap Ring	10
11	24-076	Washer	4
12	19-117	Lock Washer, 3/8	6
13	19-078	Nut, 3/8 UNC	6
14	24-065	Bearing, Flanged	2
15	24-079	Washer	2
16	24-080	Shock Lever Assembly Kit (includes Ref. 17 & 18)	1
17	NSS	Shock Lever	1
18	24-081	Hinge Shaft	2

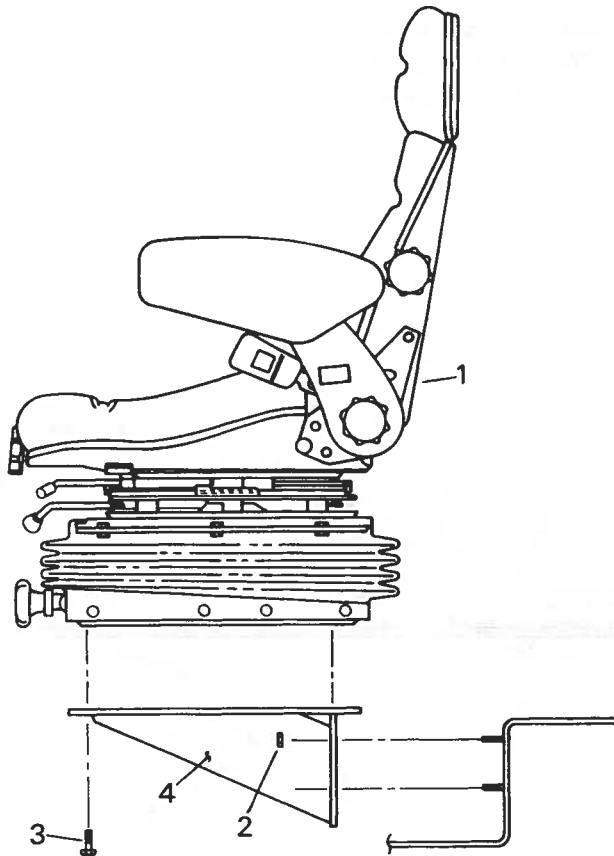
Ref.	Part No.	Description	Qty.
19	24-082	Hinge Shaft, Shock	1
20	24-083	Roll Pin	2
21	24-084	Shock Absorber Assembly Kit (includes Ref. 18 & 22)	1
22	NSS	Shock Absorber Assembly (With Bearings)	1
23	24-086	Bearing Kit, Shock Absorber (includes Ref. 18 & 24) (not shown)	1
24	24-088	Bearing Flanged	4
25	24-089	Retainer (T-Bar)	1
26	24-090	Yoke, Adjuster	1
27	24-091	Torsion Bar Set	1
28	01-1067	Side Panel Assembly (Left)	1
29	01-1068	Side Panel Assembly (Right)	1
30	01-1065	Ratchet & Handle Assembly (includes Ref. 31 & 32)	1
31	24-095	Drive Pin	1
32	NSS	Spring, Tension	1
33	24-097	Washer	1
34	24-098	Ball Bearing, Thrust	1
35	24-099	Adjuster Pin	1
36	24-100	Washer	1



Seat Assembly

Ref.	Part No.	Description	Qty.
37	24-101	Lube Fitting (3/32 Shank)	3
38	24-102	Lube Fitting (15/64 Shank)	1
39	24-103	Roller	2
40	19-106	Washer, 5/16	4
41	19-116	Lock Washer, 5/16	12
42	19-077	Nut, 5/16 UNC	8
43	24-107	Latch Wire Assembly	1
44	24-108	Slide Rail Kit (includes Right & Left Rails, Latch Wires & 2 Springs)	1
45	19-1051	Machine Screw, 5/16 x 5/8 UNC	4
46	24-111	Bumper, Bottom & Topping	4
47	24-118	Pan, Seat Cushion	1
48	01-1063	Seat Cushion Assembly	1
	01-1064	Cover Assembly Kit, Seat Cushion	AR
49	24-125	Pan, Back Cushion	1

Ref.	Part No.	Description	Qty.
50	01-1060	Back Cushion Assembly	1
	24-124	Cover Assembly Kit, Back Cushion	AR
51	24-126	Fastener Clip, Cushion	12
52	24-072	Ride Lever Indicator	1
53	01-1066	Cross Strap	1
54	01-1059	Stop	2
55	01-1061	Arm Rest Cover (Left) (includes Ref. 56 & 63)	1
	01-1062	Arm Rest Cover (Right) (includes Ref. 56 & 63)	1
56	NSS	Foam	2
57	01-1069	Channel Arm	2
58	01-1070	Retainer	2
59	19-1050	Screw, 1/4 x 3/4 UNC	4
60	01-1058	Cover, Arm Channel	2
61	19-654	Capscrew, 5/16 x 1 UNC	12
62	19-044	Capscrew, 1/2 x 1-1/2 UNC	2
63	NSS	Ring	8



Usage Note:

*Use only on 60-1098T91 BSNB

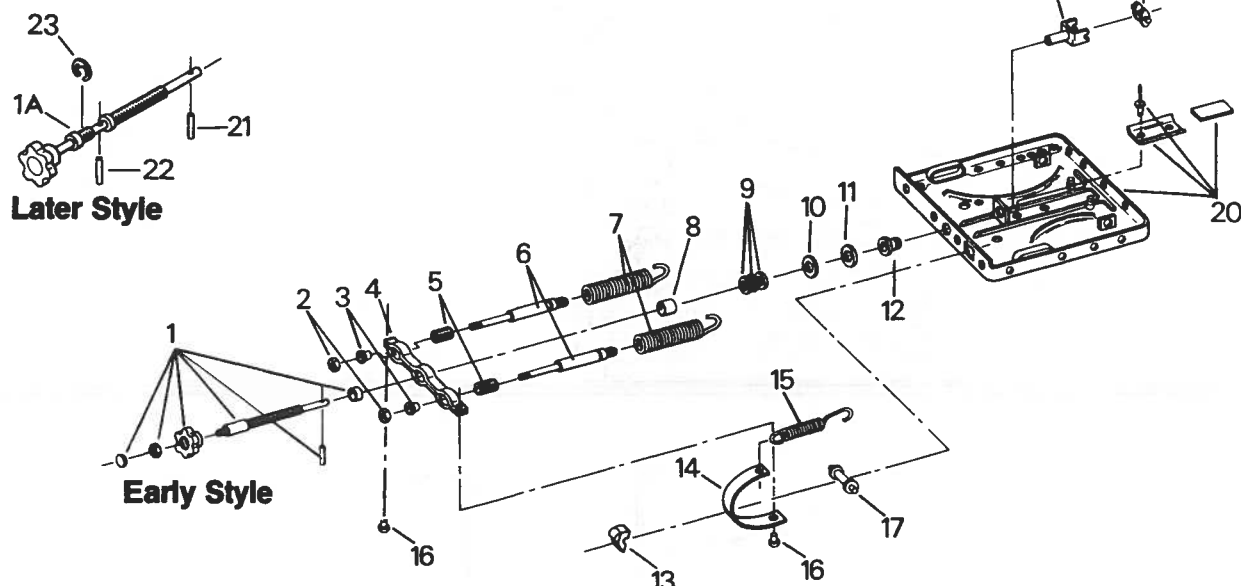
**Use only on 60-1098T92 ASNB

Seat & Mounting

Ref.	Part No.	Description	Qty.
1	60-1098T91	Seat Assy (D) (B)*	1
	60-1098T92	Seat Assy (B)**	
2	22-368	Lock Nut	4

Ref.	Part No.	Description	Qty.
3	40-1150	Capscrew	4
4	60-1427T2	Seat Mt.	1

NOTE: Items indicated w/**, to be used ASNB, can, in most cases, be used to service early seats BSNB, but all parts in that area or connected to that part must also be ordered to assure proper fit.



Usage Note:

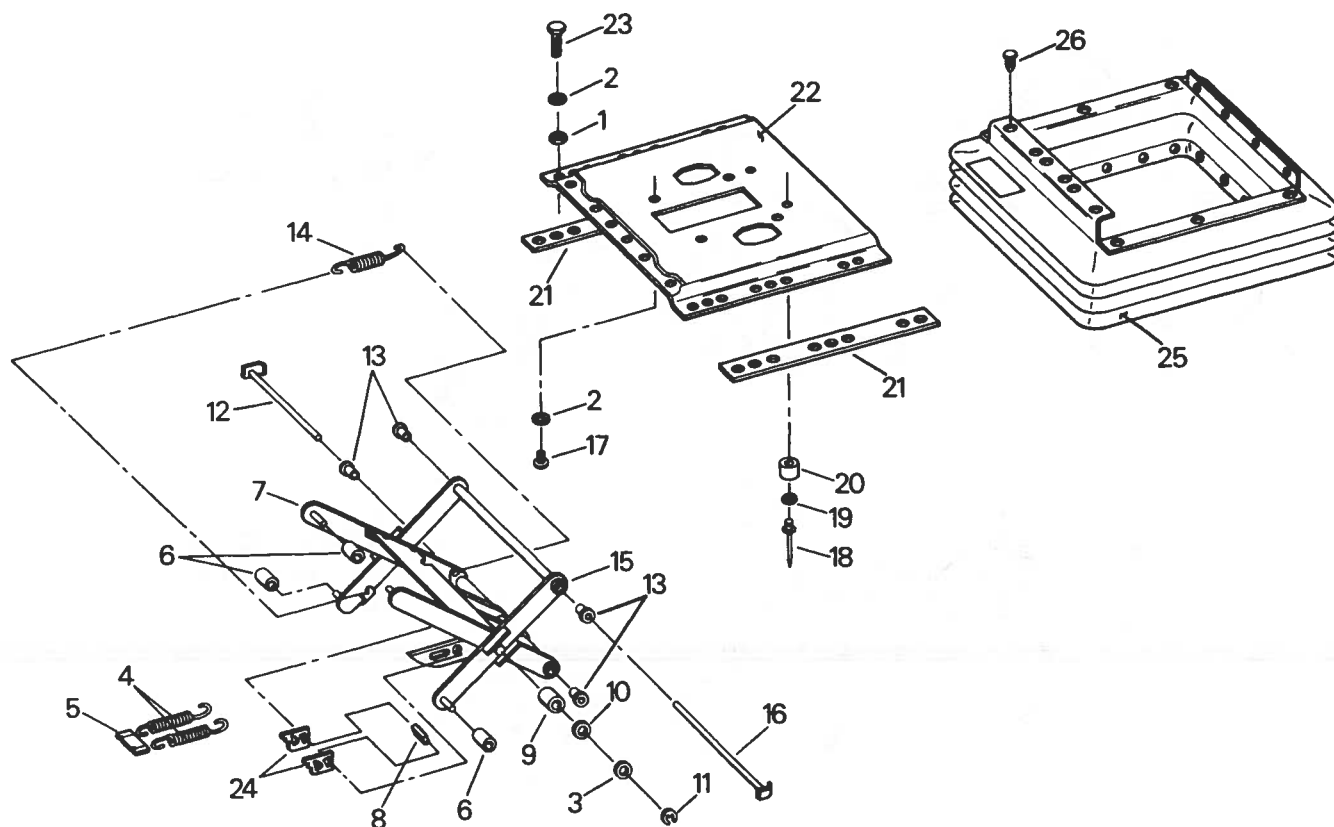
*Use only on 60-1098T91 BSNB

**Use only on 60-1098T92 ASNB

Seat Assembly (Lower Suspension)

Ref.	Part No.	Description	Qty.
1	60-1588T1	Spindle Assy*	1
1A	60-3202T91	Spindle Assy** (Incl 21-24)	1
2	60-1612T1	Nut	2
3	60-1629T1	Nut	2
4	60-1583T1	Spring Yoke	1
5	60-1630T1	Sleeve, Threaded	2
6	60-1581T1	Shock Absorber	2
7	60-1595T1	Spring	2
8	60-1631T1	Tubing	1
9	60-1586T1	Thrust Bearing Assy	1
10	60-1587T1	Washer	1
11	60-1579T1	Rubber Washer	1
12	60-1578T1	Bushing*	1

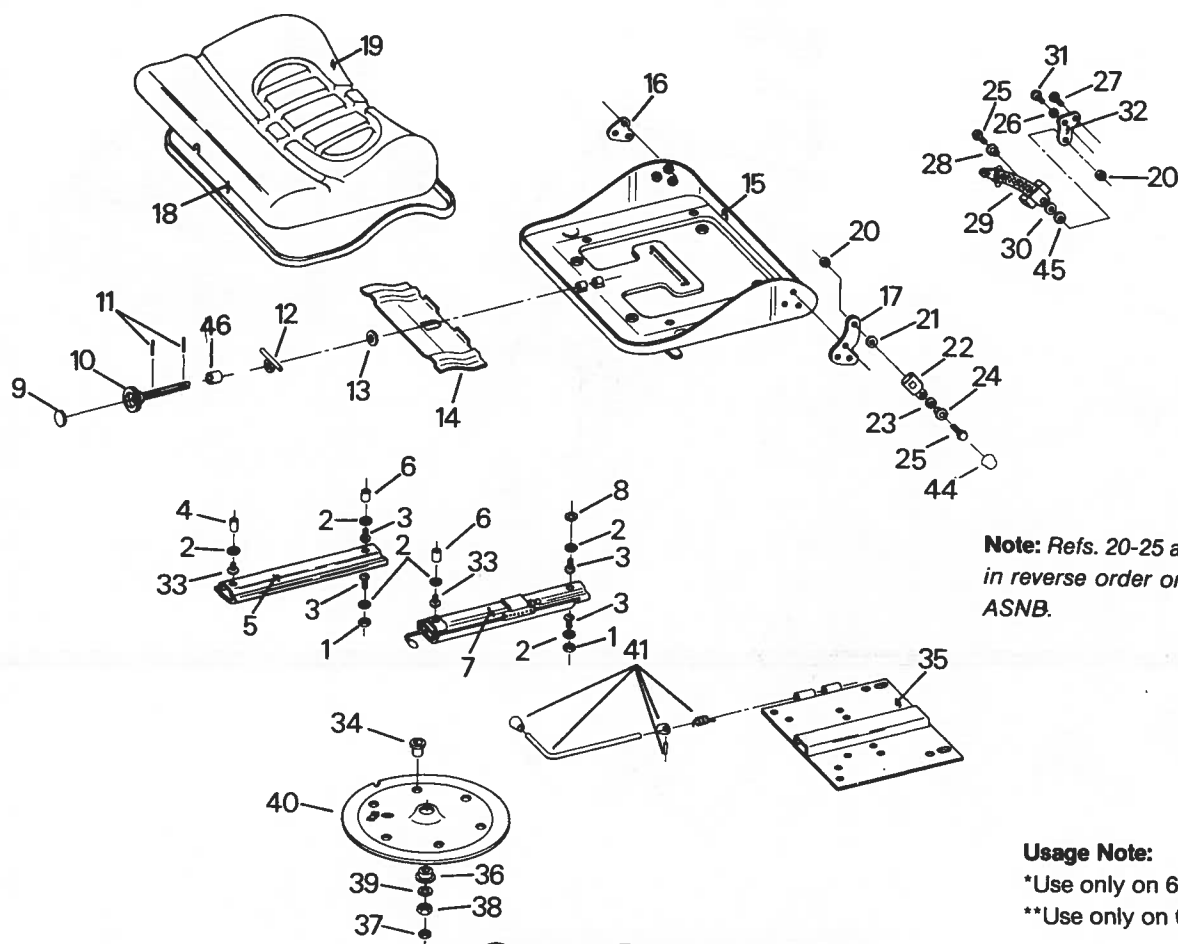
Ref.	Part No.	Description	Qty.
13	60-1584T1	Lens, Magnifier	1
14	60-1594T1	Indicator Band	1
15	60-1596T1	Spring	1
16	60-1585T1	Snap Fastener, Plastic	2
17	60-1580T1	Roller	1
18	60-1597T1	Bracket, Fork*	1
18A	60-3184T1	Bracket, Fork**	1
19	60-1598T1	Bearing, Triple*	1
20	60-1614T1	Plate, Lower Suspension	1
21	40-1179	Pin, Spring**	1
22	40-1180	Pin, Spring**	1
23	40-1178	Retainer**	1



Seat Assembly (Upper Suspension)

Ref.	Part No.	Description	Qty.
1	60-1677T1	Nut	6
2	40-1154	Lock Washer	10
3	40-1153	Washer	2
4	60-1603T1	Spring	2
5	60-1602T1	Plate, Spring Retainer	1
6	60-1609T1	Roller	4
7	60-1604T1	Scissor Arm Assembly	1
8	60-1606T1	Hex Pin	1
9	60-1607T1	Bearing, Sleeve	2
10	60-1608T1	Plastic Washer	2
11	40-1155	Retaining Ring	2
12	60-1601T1	Bolt	1
13	60-1605T1	Bearing, Foil	4
14	60-1685T1	Spring	1

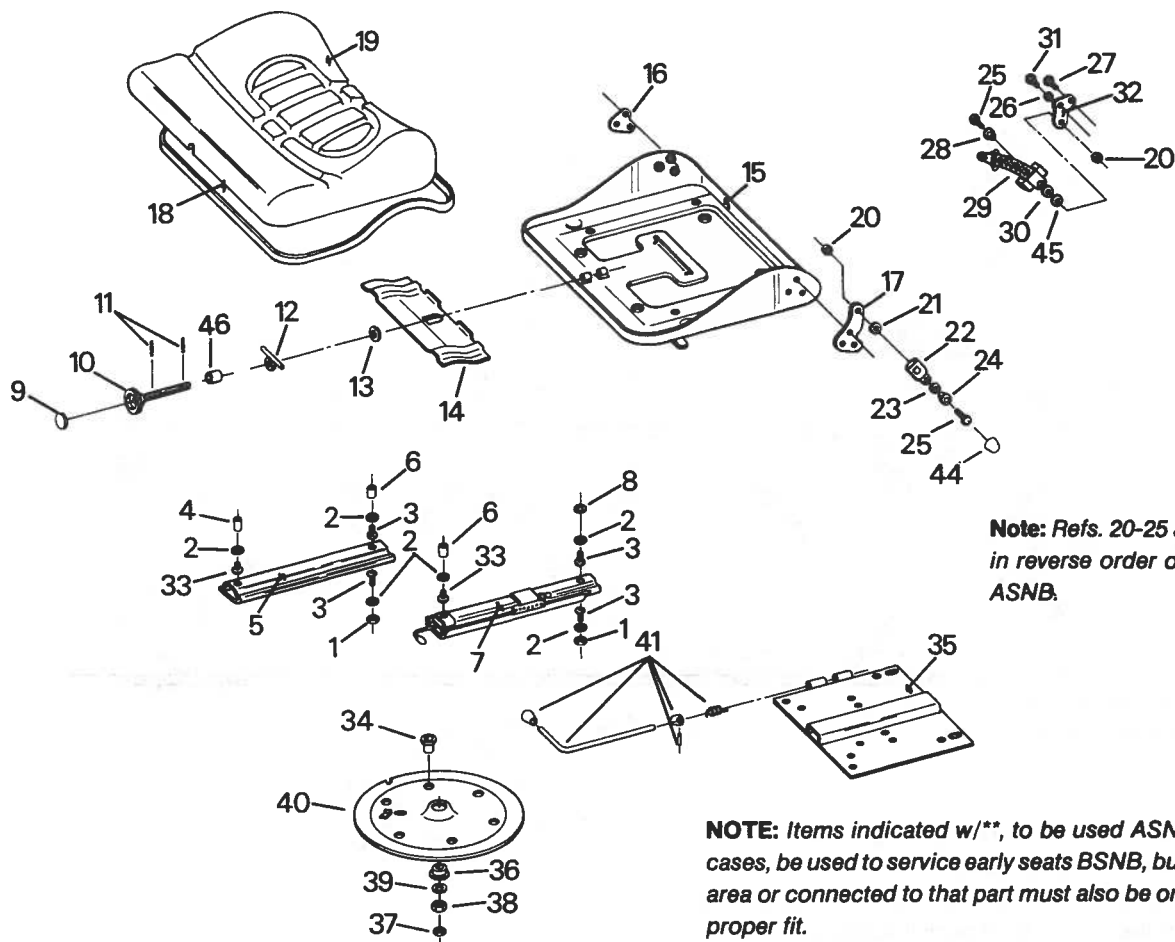
Ref.	Part No.	Description	Qty.
15	60-1610T1	Scissor Arm Assembly	1
16	60-1600T1	Bolt	1
17	40-1163	Machine Screw, M8-1.25 x 16 MM	4
18	60-1671T1	Rivet	2
19	40-1161	Washer	2
20	60-1670T1	Bumper Pad	2
21	60-1632T1	Strip	2
22	60-1582T1	Plate, Upper Suspension	1
23	40-1116	Capscrew, M8-1.25 x 16 MM	6
24	60-1599T1	Bracket, Release	2
25	60-1633T1	Bellows Assembly	1
26	60-1613T1	Snap Fastener, Plastic	26



Seat Assembly (Seat Cushion & Slide Assembly)

Ref.	Part No.	Description	Qty.
1	60-1677T1	Nut	4
2	40-1154	Lock Washer	8
3	40-1164	Machine Screw	6
4	60-1680T1	Tubing	1
5	60-1577T1	Rail, Seat Slide	1
6	60-1678T1	Tubing	2
7	60-1576T1	Rail, Adjustable Slide	1
8	60-1679T1	Washer	1
9	60-1688T1	Cap, Knob*	1
	60-3186T1	Cap, Knob**	1
10	60-1692T1	Knob Assy	1
11	40-1160	Pin*	2
	40-1175	Pin**	2
12	60-1687T1	Nut	1
13	40-1153	Washer	1
14	60-1694T1	Plate, Support	1
15	60-1701T1	Seat Pan*	1
	60-3187T1	Seat Pan**	1

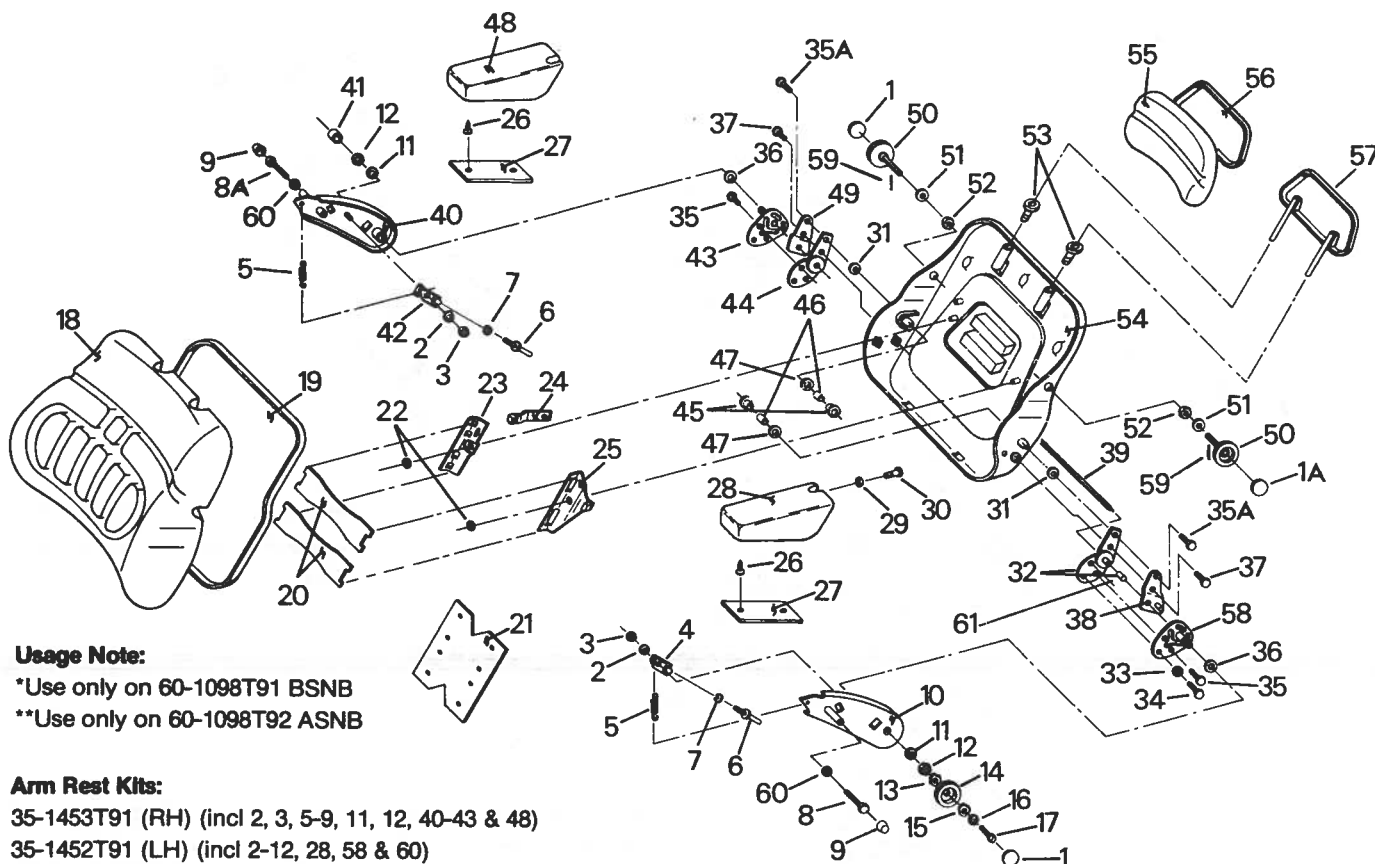
Ref.	Part No.	Description	Qty.
16	60-1638T1	Spacer	AR
17	60-1668T1	Bracket, Seat Belt	1
18	60-1640T1	Extrusion, Plastic	1
19	60-1644T1	Cushion, Seat	1
20	60-1661T1	Nut	2
21	60-1667T1	Washer	1
22	60-1658T1	Buckle, Seat Belt	1
23	60-1662T1	Spring Washer	2
24	60-1666T1	Bushing	1
25	60-1665T1	Capscrew	2
26	19-193	Lock Washer, 7/16	1
27	60-1628T1	Bolt, Locking Head*	1
	60-3191T1	Bolt, Locking Head**	1
28	60-1664T1	Bushing*	1
	60-3197T1	Bushing**	1
29	60-1659T1	Strap Assy, Seat Belt	1
30	60-1663T1	Plastic Washer*	1
	40-1159	Plastic Washer**	1



Seat Assembly (Seat Cushion & Slide Assembly)

Ref.	Part No.	Description	Qty.
31	60-1611T1	Capscrew	1
32	60-1660T1	Plate, Bearing	1
33	40-1165	Machine Screw	2
34	60-1619T1	Bushing	6
35	60-1620T1	Plate Assy (incl Ref. 36)	1
36	60-1621T1	Bushing	1
37	60-1622T1	Lock Nut	1
38	60-1623T1	Nut	1
39	60-1624T1	Bearing, Thrust	1
40	60-1625T1	Plate, Swivel	1

Ref.	Part No.	Description	Qty.
41	60-1626T1	Lever Assy	1
42	60-1618T91	Swivel Assy (incl Ref. 34-41)	1
43	60-1657T92	Seat Belt Assy (incl Ref. 17 20-25, 28-30 & 32) (60-1657T91) (B)	1
44	60-1656T1	Cover, Protective	2
45	60-1662T1	Washer*	1
46	60-3203T1	Bushing**	1



Usage Note:

*Use only on 60-1098T91 BSNB

**Use only on 60-1098T92 ASNB

Arm Rest Kits:

35-1453T91 (RH) (incl 2, 3, 5-9, 11, 12, 40-43 & 48)

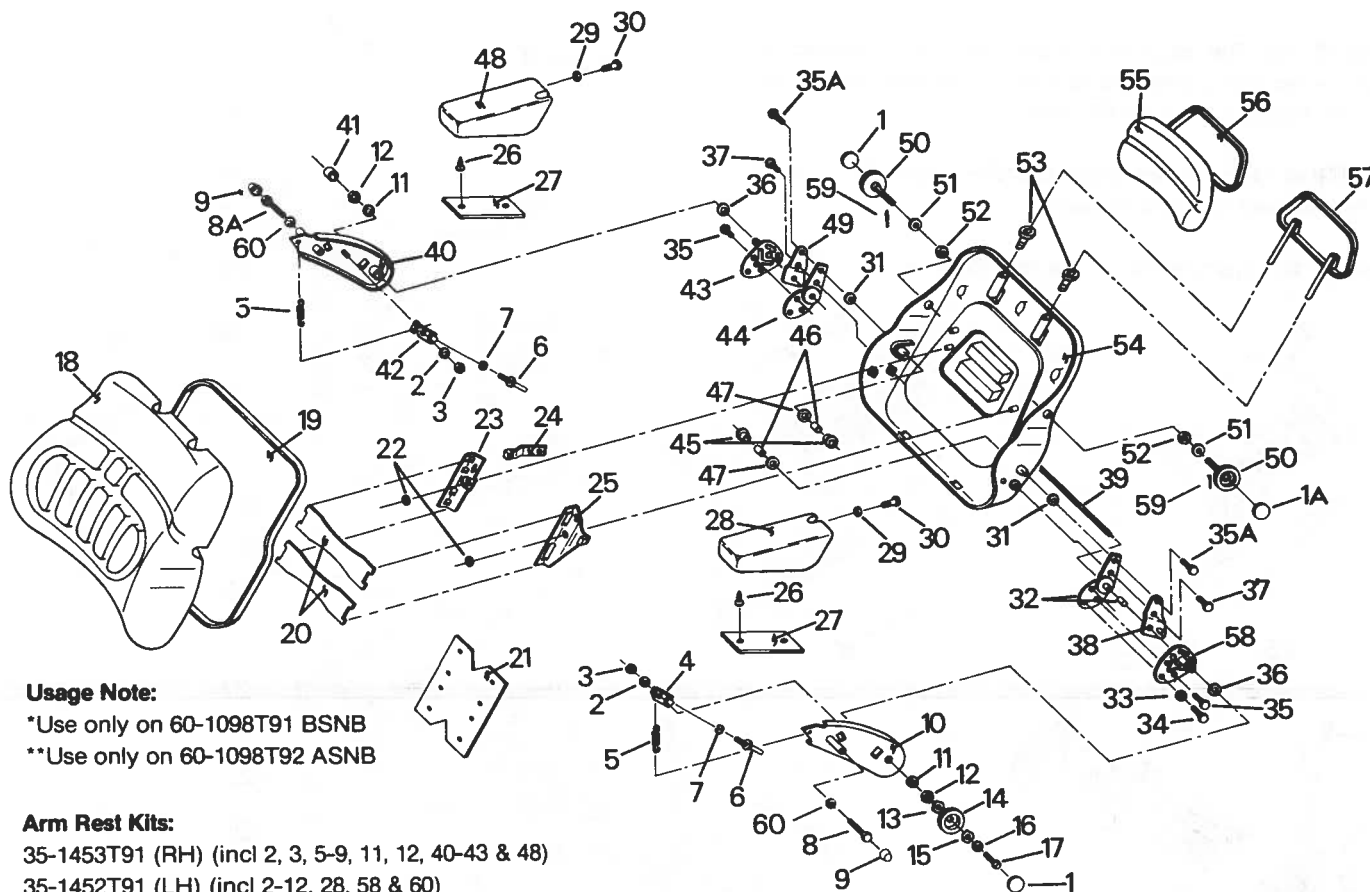
35-1452T91 (LH) (incl 2-12, 28, 58 & 60)

The above kits, which include the "Later" w/** can be used as replacements for the "Early" style parts if necessary.

Seat Assembly (Back Cushion & Arm Rest)

Ref.	Part No.	Description	Qty.
1	60-1688T1	Cap, Knob	2
1A	60-1688T1	Cap, Knob*	1
	60-3186T1	Cap, Knob**	1
2	40-1153	Washer	2
3	60-1655T1	Nut	2
4	60-1649T1	Retainer (Left)*	1
	60-3188T1	Retainer (Left)**	1
5	60-1603T1	Spring*	2
	60-3189T1	Spring**	2
6	60-1650T1	Spindle, Adjustable	2
7	40-1157	Retaining Ring*	2
8	40-1073	Capscrew	1
8A	40-1073	Capscrew*	1
	40-1069	Capscrew**	1
9	60-1656T1	Cover, Protective	2
10	60-1635T1	Support, Arm Rest*	1
	60-3190T1	Support Arm Rest**	1
11	40-1156	Washer	2
12	60-1653T1	Nut	2
13	60-1689T1	Plate	1
14	60-1690T1	Knob	1

Ref.	Part No.	Description	Qty.
15	60-1691T1	Washer	1
16	40-1149	Lock Washer*	1
17	40-1166	Machine Screw*	1
	40-1177	Machine Screw**	1
18	60-1645T1	Cushion, Back Rest	1
19	60-1641T1	Extrusion, Plastic	1
20	60-1699T1	Plate	2
21	60-1705T1	Plate, Plastic	1
22	60-1697T1	Retaining Ring	2
23	60-1696T1	Bracket, Angle	1
24	60-1695T1	Bearing	1
25	60-1698T1	Bearing	1
26	60-1651T1	Clip*	4
27	60-1636T1	Plate, Cover*	2
28	60-1639T1	Arm Rest (Left)*	1
	60-3194T1	Arm Rest (Left)**	1
29	60-1684T1	Nut*	1
30	40-1158	Machine Screw*	1
31	40-1162	Washer	2
32	60-1673T1	Bracket*	1
	60-3192T1	Bracket**	1



Seat Assembly (Back Cushion & Arm Rest)

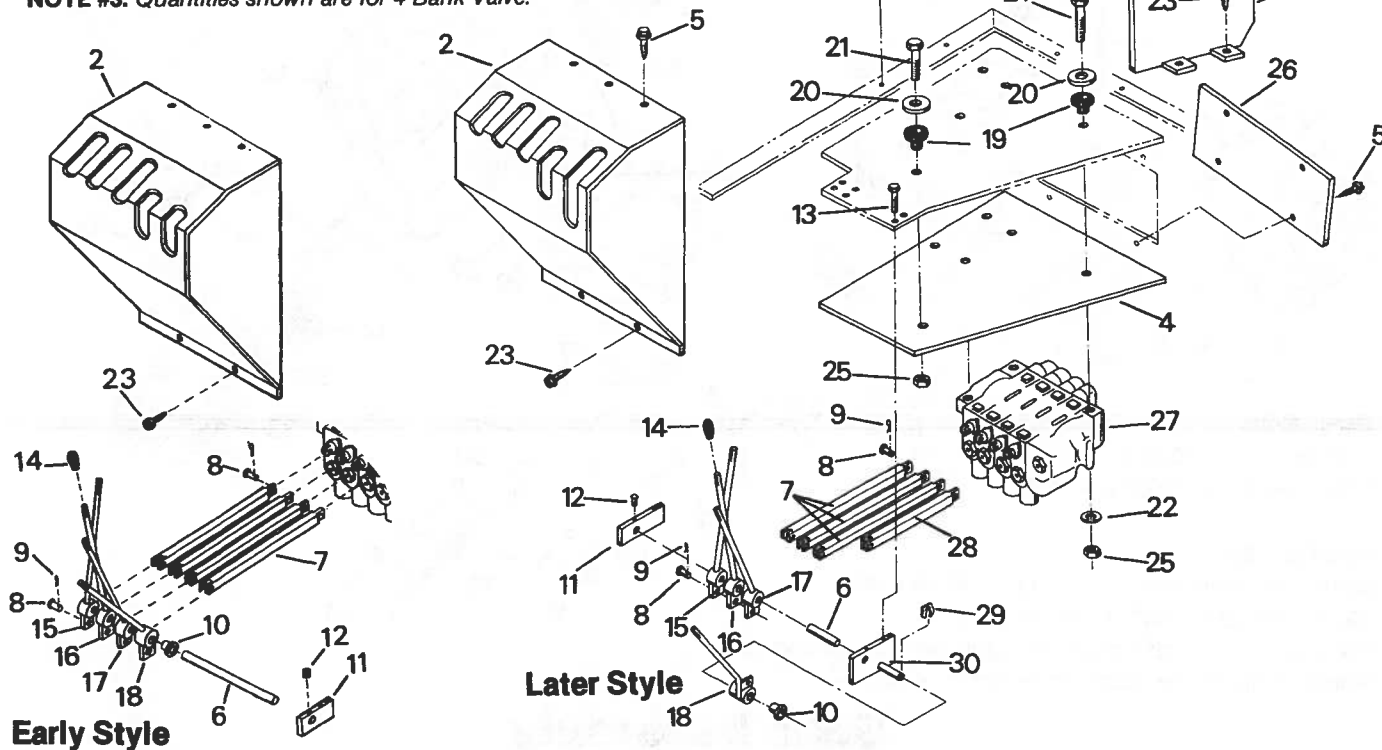
Ref.	Part No.	Description	Qty.
33	19-193	Lock Washer	1
34	60-1627T1	Capscrew	1
35	60-1628T1	Bolt, Locking Head	3
35A	60-1628T1	Bolt, Locking Head*	2
	40-1115	Bolt, Locking Head**	2
36	60-1654T1	Plastic Washer	2
37	40-1135	Capscrew*	2
	40-1090	Capscrew**	2
38	60-1682T1	Plate, Bearing*	1
39	60-1681T1	Rod, Square	1
40	60-1634T1	Support, Arm Rest*	1
	60-3195T1	Support, Arm Rest**	1
41	60-1652T1	Cover, Protective	1
42	60-1648T1	Retainer (Right)*	1
	60-3196T1	Retainer (Right)**	1
43	60-1646T1	Plate, Bearing (Right)*	1
	60-3198T1	Plate, Bearing (Right)**	1
44	60-1676T1	Bracket	1
45	60-1704T1	Nut	2
46	60-1703T1	Tubing	2
47	60-1702T1	Spring, Rubber	2

Ref.	Part No.	Description	Qty.
48	60-1637T1	Arm Rest (Right)*	1
	60-3199T1	Arm Rest (Right)**	1
49	60-1683T1	Plate, Bearing*	1
50	60-1693T1	Knob Assy*	2
	60-3200T1	Knob Assy**	2
51	40-1159	Washer*	2
	60-1667T1	Washer**	2
52	60-1686T1	Nut*	2
53	60-1669T1	Bushing	2
54	60-1700T1	Back Rest Assy	1
55	60-1643T1	Cushion, Back Rest Extension	1
56	60-1642T1	Extrusion, Plastic	1
57	60-1672T1	Support, Back Rest Extension	1
58	60-1647T1	Plate, Bearing (Left)*	1
	60-3256T1	Plate, Bearing (Left)**	1
59	40-1176	Pin, Spring**	1
60	40-1008	Washer**	2
61	60-3193T1	Pin, Hinge**	1

NOTE #1: The early style Float Lever (#18) should be converted to the later style so that the float position is down rather than up. Order Kit #35-1028.

NOTE #2: On some early tractors, 5/16 Hardware (Ref. 22, 24 & 25) was used to mount the valve.

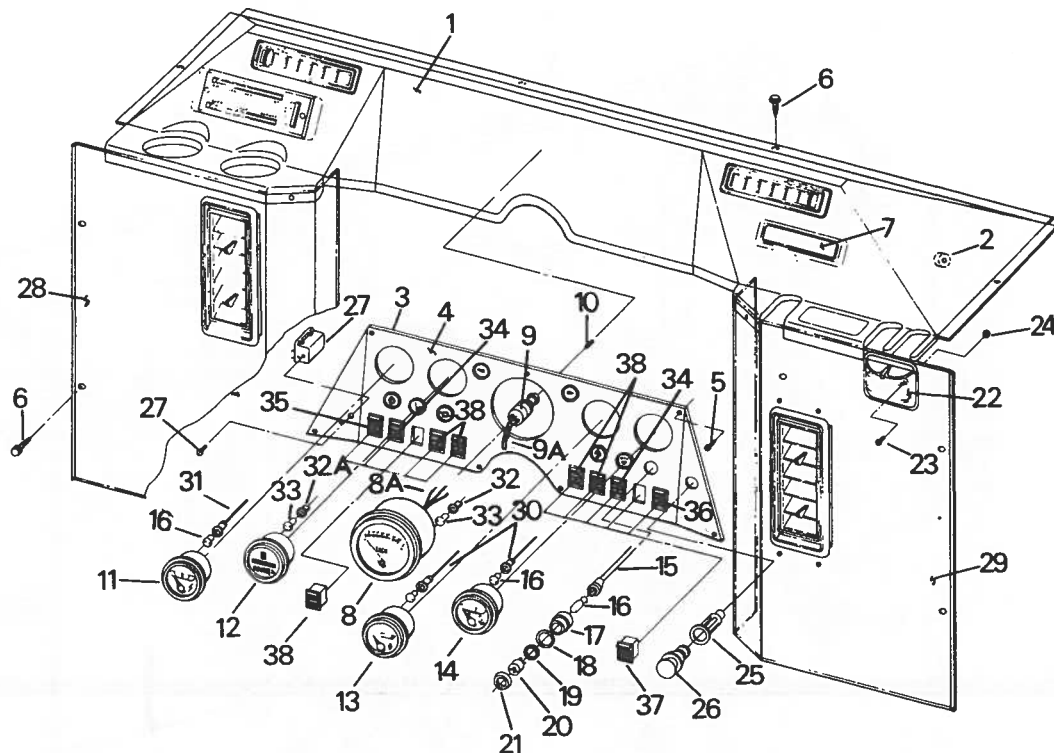
NOTE #3: Quantities shown are for 4 Bank Valve.



Hydraulic Valve Controls

Ref.	Part No.	Description	Qty.
1	54-388	Cover (use w/Early Levers)	1
	01-2070	Cover (use w/04-1042) (has welded on front lip as illustrated)	
	60-1239T1	Cover (use w/60-1238T1) (front edge is bent slightly & doesn't have weld on lip)	
2	54-387	Cover (use w/Early Levers)	1
	04-1042	Cover (use w/01-2070)	
	60-1238T1	Cover (use w/60-1239T1)	
3	54-379	Panel	1
4	54-385T1	Mt. Plate (54-385) (B)	1
5	19-958	Tapscrew 1/4 NC x 3/4	13
6	54-376	Control Shaft (Early)	1
	01-1409	Control Shaft (Late)	1
7	54-386	Push Rod	3
8	19-144	Clevis Pin	8
9	19-170	Cotter Pin	8
10	24-206	Bearing	8
11	54-375	Pivot Mount	1
12	19-219	Set Screw, 1/4 NC	2
13	19-001	Capscrew, 1/4 NC x 1-1/4	4
14	24-219	Knob	4

Ref.	Part No.	Description	Qty.
15	54-380	Handle (4th Bank)	1
	04-1043	Handle (5th Bank) (not shown)	
16	54-383	Handle	1
17	54-382	Handle	1
18	54-384	Handle (Early) (Note #1)	1
	01-1813	Handle (Later Style)	1
19	18-511	Rubber Mount	4
20	19-500	Washer, Rubber Mount	4
21	19-730	Capscrew, 7/16 NC x 2-1/2	1
22	19-643	Washer, 7/16 (see Note #2)	3
	19-106	Washer, 5/16	6
23	19-957	Tapscrew, 5/16 NC x 3/4	1
24	19-736	Capscrew, 7/16 NC x 4	3
	19-333	Capscrew, 5/16 NC x 4	
25	19-080	Nut, 7/16 NC (qty. 1 when Ref. 24 is P/N 19-333)	4
	19-508	Nut, 5/16 NC	3
26	04-1000	Access Cover	1
27		Hydraulic Control Valve (see Hyd. Section)	1
28	01-1812	Push Rod	1
29	01-1807	Snap Ring	1
30	01-1811	Pivot Mount	1



+ In use 10-1-82, ASN 2501

* Early Series III w/18-1606 Steering Column (See SN Break Pages)

** Later Series III after above & Prior to New 01-8671 Console.

*** Latest Series III w/01-8671 Console (See SN Break Pages)

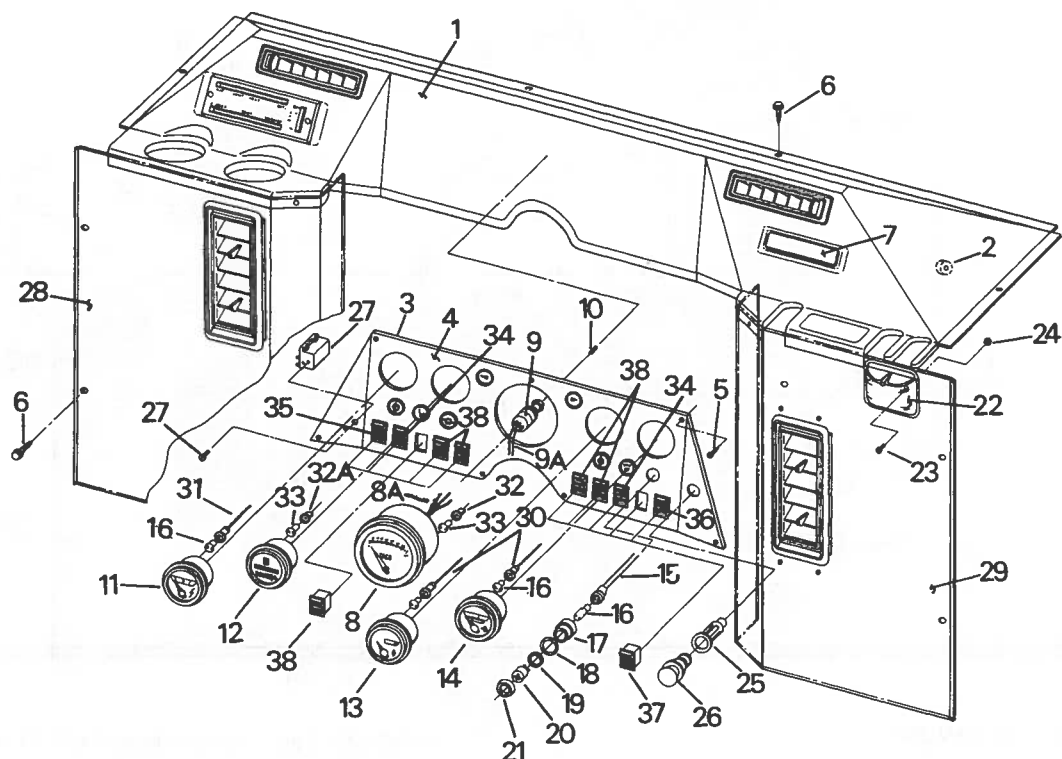
%NOTE #1: Tachometer Kits 35-1440T91 (w/Cummins 855) & 35-1441T91 (all other engines) have been released to service the 3 earlier tachometers and also replaces the 35-1279T92 Kit which was used to replace the 22-734 & 01-3839. The new Kits include the 20-1511T1 tachometer, latest harnesses, sender and drive tip.

NOTE #2: Oil Pressuge Gauge 22-744 can be used up on Cummins 903 and Cat 3306.

Dash & Instrument Group

Ref.	Part No.	Description	Qty.
1	54-390T1	Dash (54-390) (B)	1
2	01-6828	Boss	7
3	01-1045	Dash (ST 325)*-**	1
	01-7243	Dash (ST 325)***	
	54-391	Dash (other models)*-**	
	01-7244T1	Dash (other models)***	
4	26-515	Woodgrain Decal*	1
	01-3921	Woodgrain Decal**	
	01-7240	Woodgrain Decal***	
5	19-1003	Self Drill Screw	7
6	19-958	Tapping Screw	10
7	26-538	Bearcat Emblem	1
	26-540	Cougar Emblem	
	26-539	Panther Emblem	
8	22-734	Tachometer% (B)	1
	01-3839	Tachometer% (B)	
	01-4455	Tachometer% (D) (160° Dial)	
	20-1511T1	Tachometer% (D) (280° Dial)+	
8A	20-1583T1	Harness (for 20-1511T1)+	1
9	22-726	Tachometer Sender (D)	1
		(use w/22-734 & 01-3839)	
	01-4222	Tachometer Sender (D)	
		(use w/01-4455)	
	20-1369T1	Tachometer Sender (D)+	
		(use w/20-1511T1)	

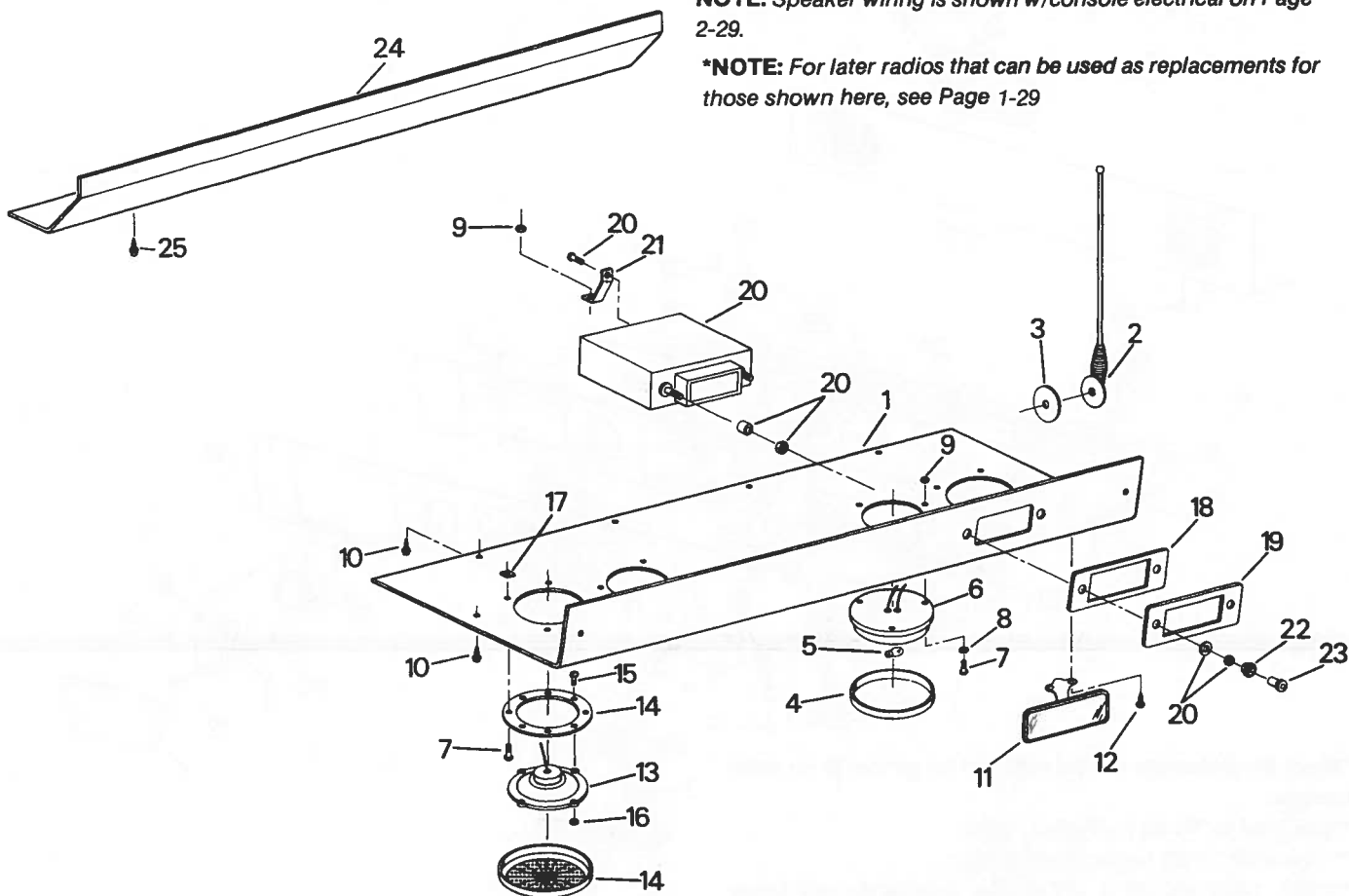
Ref.	Part No.	Description	Qty.
9A	20-1582T1	Harness (for 20-1369T1)+	1
10	22-730	Drive Tip (use w/22-726 & 01-4222)	1
	20-1370T1	Drive Tip (use w/20-1369T1)+	
11	22-743T1	Voltmeter (22-743) (B)	1
12	22-735	Hourmeter (moved to upper console on tractors w/Fuel Gauge)	1
	01-8609	Fuel Gauge (on Later models w/electric sender)	1
13	20-1306T1	Engine Temp Gauge (22-742) (B)	1
14	22-745	Engine Oil Pressure Gauge (w/Cummins 855 (BSN 2712) & Cat 3406)	1
	22-744T1	Engine Oil Pressure Gauge (w/Cummins 903, Cat 3306 & Cummins 855 (ASN 2712)	1
15	01-3512	Socket Assy (part of Wire Harness on Later models)	3



Dash & Instrument Group

Ref.	Part No.	Description	Qty.
16	22-717	Light Bulb (Gauges & Warning Lights)	11
17	22-716	Housing	8
18	22-725	Washer	8
19	22-715	Nut	8
20	22-719	Lens, Engine Oil Press.	1
	22-718	Lens, Water Temp	1
	22-720	Lens, Trans Oil Temp	1
	22-721	Lens, Trans Oil Press.	1
	22-722	Lens, Park Brake	1
	22-723	Lens, Bright Beam Indicator	1
	22-724	Lens, Turn Signal Indicator	2
21	22-714	Shroud, Lens	8
22	64-095	Ashtray	1
23	19-497	Machine Screw	2
24	22-728	Lighter, Receptacle Assy	1
26	22-727	Lighter, Plug Assy	1
27	29-027	Relay, Murphy (early models, see Elec Section)	1
28	54-400	Skirt, LH	1
29	33-295	Skirt, RH	1
30	22-1001	Light Assy* (single)	2
	01-3925	Wire & Socket**-* (double)	1/2

Ref.	Part No.	Description	Qty.
31	22-1001	Light Assy*	1
	01-3926	Wire & Socket** (single)	
	01-3925	Wire & Socket*** (double)	
32	22-739	Light Socket (is part of 20-1583T1 harness w/latest 20-1511T1 tach)	2
32A	22-739	Light Socket (in Hour Meter)	1
	01-3925	Wire & Socket (in Fuel Gauge)	1
33	22-740	Bulb (in Hr meter & all except 20-1511T1 tach)	AR
	22-717	Bulb (in 20-1511T1 tach & Fuel Gauge)	1
34	01-6153	Switch, Wipers in * style, Dash Lights & Rear Wiper in both later styles	2
35	01-6154	Switch, Start Aid in all & Washer in * style	1/2
36	01-8582	Switch, Master	1
37	01-6152	Switch, F/R Lights	1
38	01-6150	Switch, Imp Socket, Dome, Sprayer & Extra in all plus Dash Lights in * Style	5
	60-3210T1	Plug (to plug switch holes)	AR



NOTE: Speaker wiring is shown w/console electrical on Page 2-29.

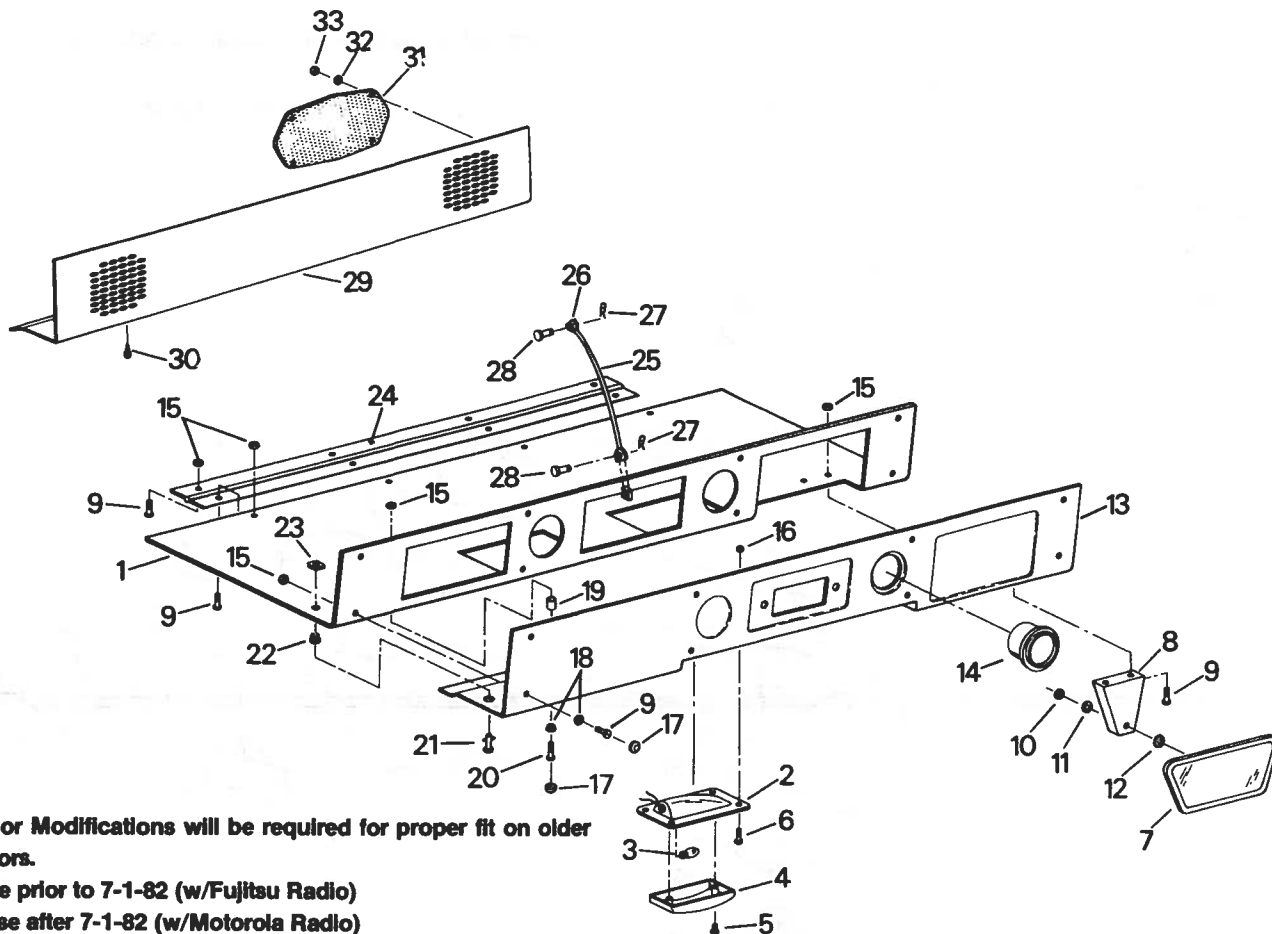
***NOTE:** For later radios that can be used as replacements for those shown here, see Page 1-29

Consoles

Early Style (Before 11-1-78)

Ref.	Part No.	Description	Qty.
1	54-404	Console, Front (D)	1
2	25-256	Antenna Assembly	1
3	01-3514	Gasket, Antenna	1
4-6	64-346	Dome Light Assembly	2
4	22-1145	Lens	2
5	22-1146	Bulb	2
6	NSS	Housing	2
7	19-1000	Machine Screw	14
8	19-602	Lock Washer	2
9	19-1015	Kep Nut	2
10	19-958	Screw, Tapping	8
11	24-062	Mirror	1
12	19-131	Screw, Tapping	2
13-16	22-747	Speaker Kit	2
13	01-8068	Speaker	2
14	01-8069	Ring & Grille Assy	2
15	NSS	Machine Screw	8
16	NSS	Nut	8

Ref.	Part No.	Description	Qty.
17	19-1001	Clip Nut	12
18	04-1001	Plate, Backing	1
19	01-7612	Plate, Face	1
20	25-157	Radio, AM-FM/Stereo Tape*	1
	01-7755	Radio, AM-FM/Stereo Tape*	
21	NSS	Strap (incl with Ref. 20)	1
22	25-149	Knob, Inside	2
23	25-150	Knob, Outside	2
24	54-405	Console, Rear	1
25	19-958	Tapscrew	4



*Minor Modifications will be required for proper fit on older tractors.

**Use prior to 7-1-82 (w/Fujitsu Radio)

***Use after 7-1-82 (w/Motorola Radio)

****Ref. 14 (20-2018T1) will require splicing female spade terminals to the wire harness.

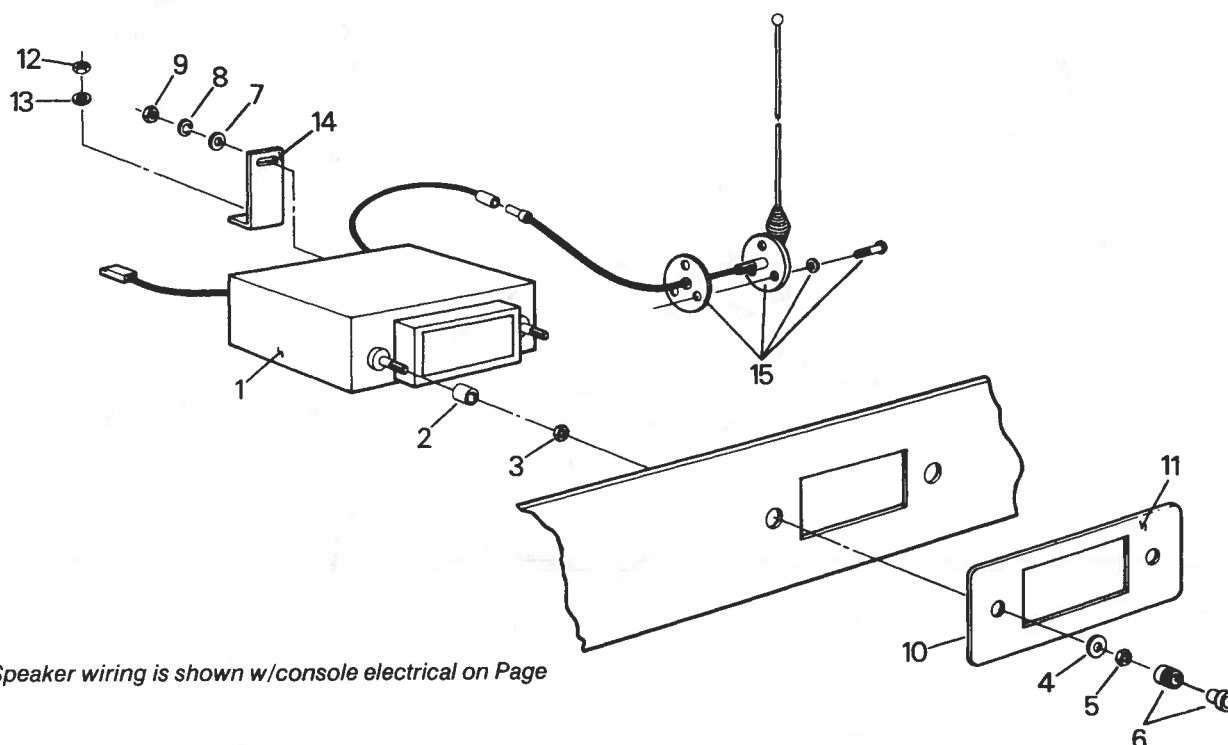
Consoles

Later Style (After 11-1-78)

Ref.	Part No.	Description	Qty.
1	01-8671T4	Console*	1
2-5	01-9063T91	Dome Light Assy*	
2	NSS	Housing	2
3	20-2007T1	Bulb	2
3	01-9064	Lens	2
5	155830	Machine Screw	4
6	155857	Machine Screw	8
7	01-8617	Mirror	1
8	64-086	Mirror Bracket	1
9	19-867	Machine Screw	19
10	19-5565	Lock Nut	1
11	19-223	Washer	1
12	19-467	Lock Washer	2
13	01-9067T2	Trim Panel (D)**	1
	60-3146T2	Trim Panel (D)***	
14	20-2018T1	Hourmeter (22-735) (B)****	1
15	19-5563	Lock Nut	23
16	19-5564	Lock Nut	8

Ref.	Part No.	Description	Qty.
17	01-8673	Cap	13
18	01-8674	Cap Washer	13
19	31-1354	Spacer	4
20	454774	Machine Screw	4
21	19-5568	Stud, Quarter Turn	2
22	19-5569	Retainer, Quarter Turn	2
23	19-5570	Receptacle, Quarter Turn	2
24	01-4291	Hinge	1
25	01-4656	Cable, Lanyard	1
26	01-4657	Clevis	2
27	19-5380	Hair Pin	2
28	19-143	Clevis Pin	2
29	01-9474T1	Console, Rear	1
30	19-958	Tapscrew	4
31	60-2077	Speakers (Repl 01-9152) (B)	2
	35-1343T91	Speaker Kit (incl 31, 32 & 34)	1
32	19-699	Washer	8
33	19-5563	Lock Nut	8

Early Style



NOTE: Speaker wiring is shown w/console electrical on Page 2-29.

NOTE: Speakers are shown w/consoles on Pages 1-27 & 1-28

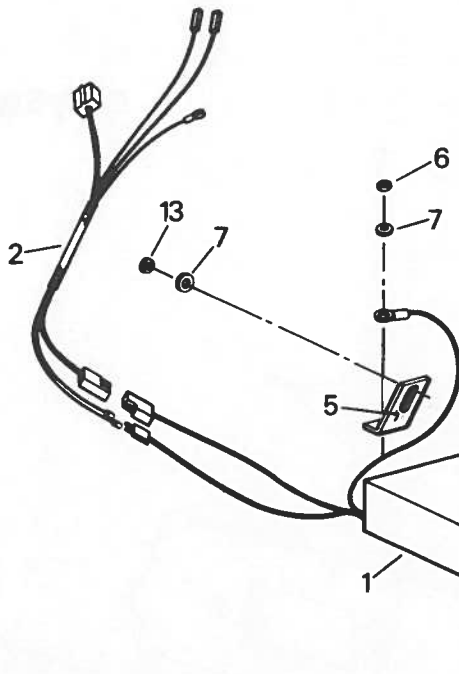
NOTE: All earlier 8 track radios can be replaced by the latest, 02-2083T1, but some modifications may have to be made to the Mt. Brkt & Harness.

Radio & Mounting, (Automatic) (D)

11-1-78 to 11-1-80

Ref.	Part No.	Description	Qty.
1	01-4362	Radio, AM-FM Multiplex 8 Track (includes Ref. 2-9)	1
	02-2083T1	Radio, AM-FM Multiplex/ 8 Track (includes Ref. 2-9)	
2-9	01-9957	Radio Hardware Kit	AR
2	01-4358	Spacer	4
3	19-5408	Nut, 3/8 UNEF	2
4	19-5409	Washer, Trim	2
5	19-5410	Nut, 3/8 UNEF	2
6	01-4357	Knob Set	1
7	19-5411	Washer (used with Radio P/N 01-4362 only)	1
8	19-5412	Lock Washer, 6 MM (used with Radio P/N 01-4362)	1
	19-603	Lock Washer, #10 (used with Radio P/N 02-2083T1)	
9	19-5413	Nut, M6	1
10	01-4296	Trim Plate, Radio (used with Radio P/N 01-4362 only)	1

Ref.	Part No.	Description	Qty.
11	01-9154	Decal, Radio (replaces P/N 01-4322 - Code B)	1
12	19-567	Nut, #10 UNC	1
13	19-699	Washer, 1/4	1
14	01-4278	Bracket, Radio Mount (used with Radio P/N 01-4362 and Early Style Front Console) (shown above)	1
	01-8680	Bracket, Radio Mount (used with Radio P/N 01-4362 and Later Style Front Console)	
	02-2391	Bracket, Radio Mount (used with Radio P/N 02-2083T1 and Later Style Front Console)	
15	01-4545	Antenna, Radio (includes all mounting hardware)	1



NOTE: Panasonic Radio Kit P/N 35-1545T91 will replace this radio (see Page 1-30B).

NOTE: Panasonic Radio Kit P/N 35-1545T91 can be used to service the Motorola & Fujitsu radios as shown on pages 1-30 & 1-30A. However, some minor modifications will be necessary.

See Page 1-30A for Antenna

NOTE: Speaker wiring is shown w/console electrical on Page 2-29.

NOTE: Speakers are shown w/consoles on Pages 1-27 & 1-28.

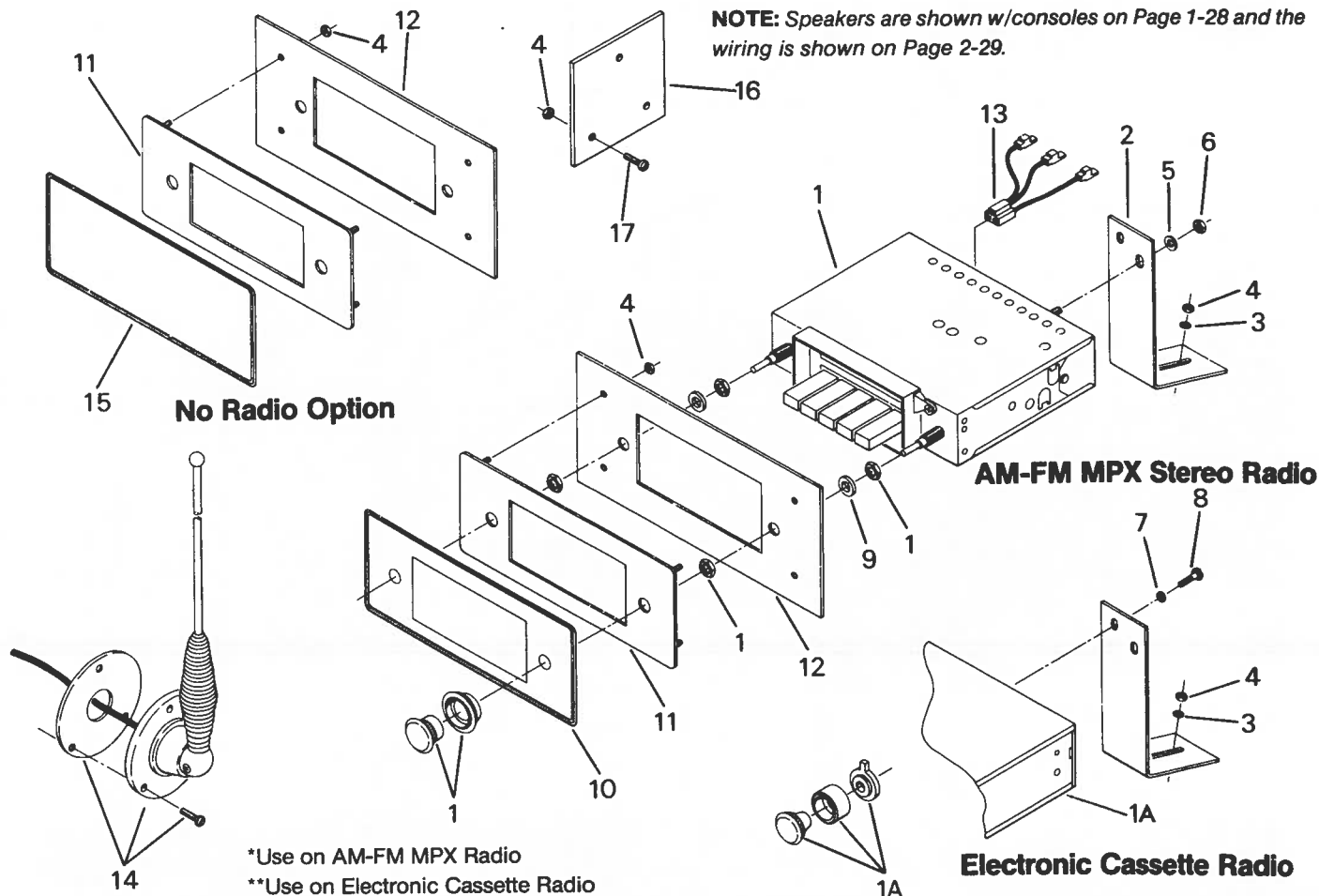
NOTE: Electronic Cassette Radio option, "No Radio" option & CB Radio option are shown in Options, Section 10.

NOTE: This radio is not tape and is used after a serial # break due to a modification to the front console.

Radio & Mounting, (Fujitsu) (D) 11-1-80 to 7-1-82

Ref.	Part No.	Description	Qty.
1	60-1554T91	Radio AM-FM Stereo (D)	1
2	20-1229T1	Wire Harness, Adapter	1
3-4	01-4357	Knob Set (Repl 60-1755T1 outer knob & 60-1754T1 inner knob which may no longer be available separately)	1
5	60-1708T1	Bracket, Radio Mount	1
6	19-567	Nut	1
7	19-467	Lock Washer	2

Ref.	Part No.	Description	Qty.
8	60-1711T1	Spacer	2
9-10	60-1710T91	Decal/Bezel Assembly	1
9	60-1707T1	Decal, Radio	1
10	60-1709T1	Bezel, Radio	1
11	01-4545	Antenna, Radio (includes all mounting hardware)	1
12	19-5409	Washer, Trim	2
13	19-2250	Jam Nut	1



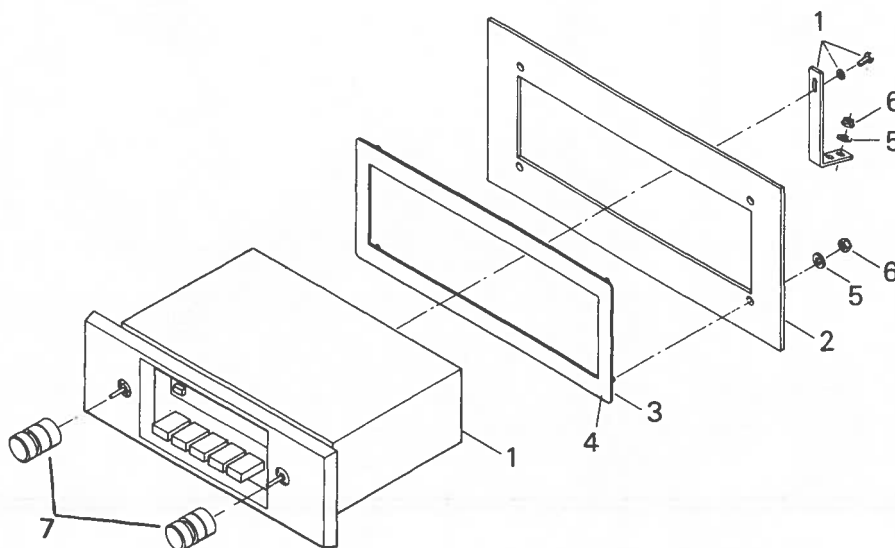
Radios & Mounting (Motorola)

(Effective 7-1-82)

Ref.	Part No.	Description	Qty.
1	20-1545T1	Radio, AM-FM MPX Stereo	1
	60-2765T1	Knob Set, Right	1
	60-2766T1	Knob Set, Left	1
1A	20-1546T1	Radio, AM-FM Electronic Cassette	1
	60-2635T1	Knob Set (3 Pieces)	2
2	60-3083T1	Bracket	1
3	19-195	Washer	1
4	9411893	Nut, Lock	AR
5	19-105	Washer	1
6	19-1081	Nut, Lock	1
7	19-603	Washer, Lock	1

Ref.	Part No.	Description	Qty.
8	19-5731	Machine Screw	1
9	19-6049	Spacer*	2
	19-6054	Spacer**	2
10	60-3076T1	Decal*	1
	60-3077T1	Decal**	1
11	60-3079T1	Panel	1
12	60-3080T1	Plate	1
13	20-1646T1	Harness, Adapter	1
14	01-4545	Antenna	1
15	60-3088T1	Decal	1
16	02-1783T1	Cover Plate	1
17	19-572	Machine Screw	3

NOTE: Panasonic Radio Kit P/N 35-1545T91 will replace this radio (see Page 1-30B).



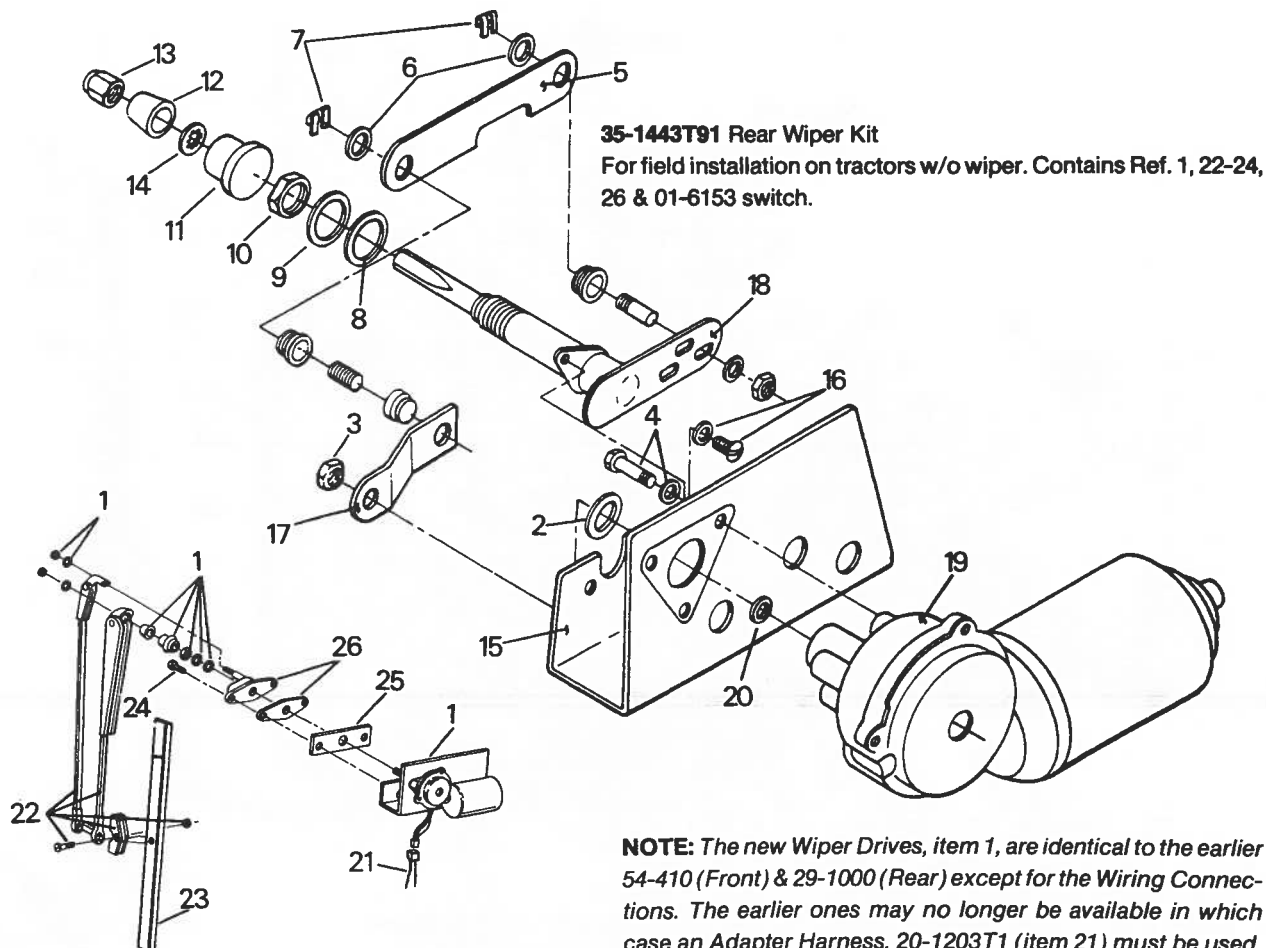
NOTE: This radio can be used as a replacement for the Motorola by ordering **Kit No. 35-1545T91** which includes the parts shown here plus mounting instructions.

NOTE: See Page 1-17 for antenna.

Radio & Mounting (Panasonic AM-FM Stereo)

Ref.	Part No.	Description	Qty.
1	60-3905T1	Panasonic Radio (incl Ref. 7)	1
2	60-3483T1	Plate	1
3	60-3485T1	Mount Plate	1

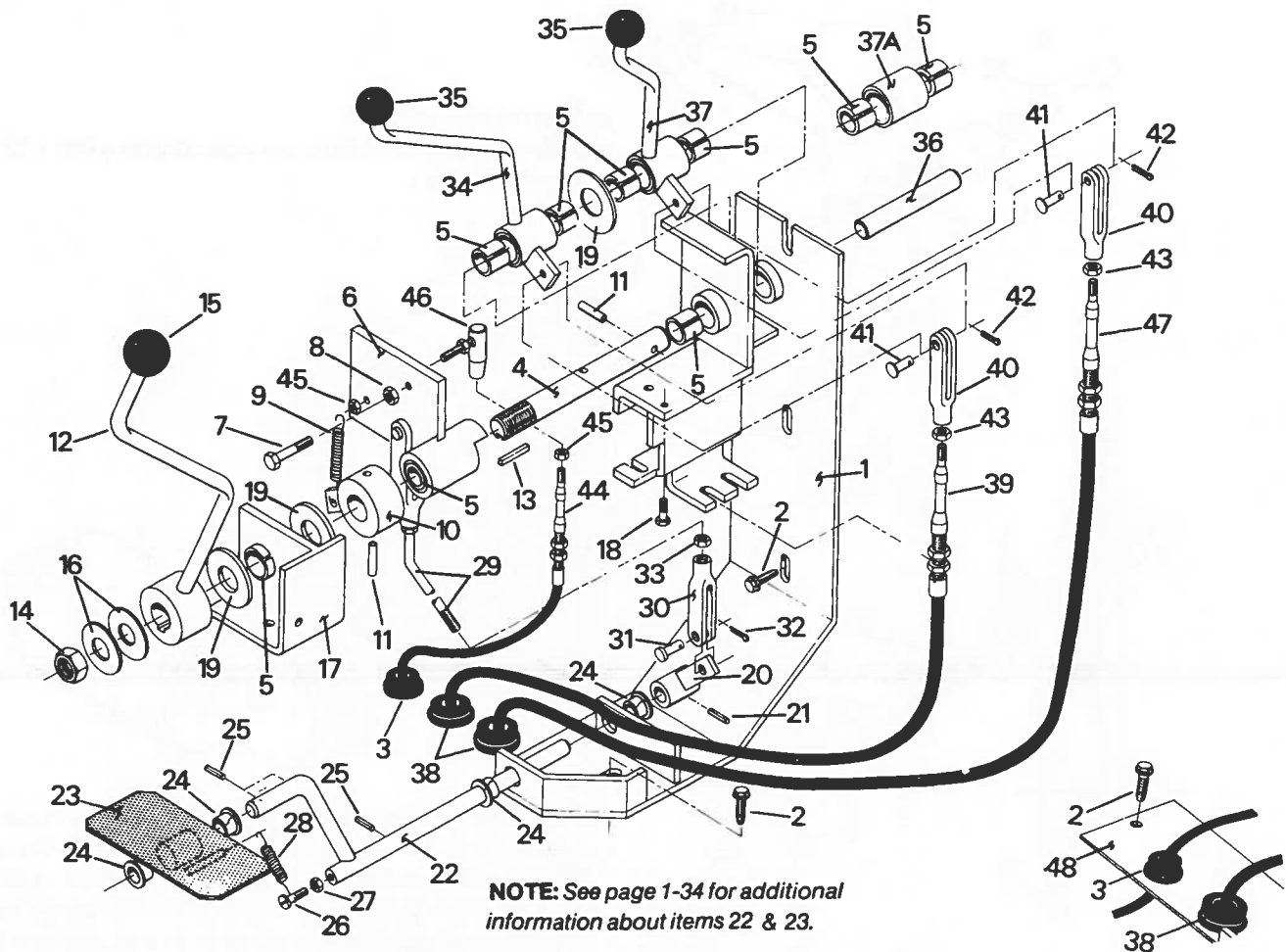
Ref.	Part No.	Description	Qty.
4	60-3486T1	Decal	1
5	9421089	Washer	9
6	19-5563	Lock Nut	13
7	01-4357	Knob Set	1



Windshield Wipers

Ref.	Part No.	Description	Qty.
1	20-1204T91	Wiper Drive (Front) (C) (items 2-20) (see Note)	1
	20-1212T91	Wiper Drive (Rear) (C) (items 2-20)	1
	35-1285T91	Wiper Drive Kit (Front) (C) (items 2-21) (Repl 54-410)	1
	35-1284T91	Wiper Drive Kit (Rear) (C) (items 2-21) (Repl 29-1000)	1
2	01-2678	Washer	1
3	01-2680	Nut	1
4	01-2682	Machine Screw	3
5	01-2683	Link, Connecting	1
6	91-2684	Washer, Spacing	2
7	01-2685	Spring Clip	2
8	01-9416	Washer	1
9	01-9417	Washer	1

Ref.	Part No.	Description	Qty.
10	01-9418	Nut	1
11	01-9419	Cap	1
12	01-9420	Knurled Driver	1
13	01-9421	Nut	1
14	01-9422	Washer	1
15	01-2681	Bracket	1
16	01-2686	Machine Screw	2
17	01-2679	Drive Arm	1
18	01-2668	Pivot Shaft	1
19	NSS	Motor Assembly	1
20	01-9415	Spacer	3
21	20-1203T1	Wire Harness	1
22	54-313	Wiper Arm	1
23	54-312	Blade	1
24	19-939	Capscrew (w/o Windshield Washer)	1
	19-1048	Capscrew (with Windshield Washer)	
25	54-310	Spacer (part of Cab 1-8-80)	1
26	54-311	Pantograph Kit	1



Throttle & Two-Speed Controls Early Style

Ref.	Part No.	Description	Qty.
1	04-578	Support Lever (D)	1
2	19-957	Screw, 5/16 NC x 3/4	4
3	01-1051	Grommet	1
4	04-551	Shaft	1
5	24-209	Bearing	8
6	04-568	Lever	1
7	19-019	Capscrew, 3/8 NC x 1-1/2	1
8	19-078	Nut, 3/8 NC	1
9	11-015	Spring	1
10	04-570	Lever	1
11	19-950	Roll Pin	2
12	04-564	Lever, Throttle	1
13	19-951	Key	1
14	19-496	Nut, 3/4 NF	1
15	24-210	Knob	1
16	04-577	Washer	2
17	04-574T3	Support	1
18	19-288	Capscrew, 5/16 NC x 5/8	2
19	04-566	Disc	2
20	04-556	Lever	1
21	19-505	Roll Pin	1
22	04-557T1	Shaft	1

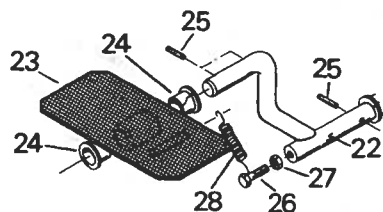
Ref.	Part No.	Description	Qty.
23	04-554	Pedal, Decelerator	1
	24-013	Pad, Decelerator Pedal	1
24	24-206	Bearing	4
25	19-952	Roll Pin	3
26	19-3061	Screw, #10 NC x 3/4	1
27	19-567	Nut, #10 NC	1
28	11-021	Spring	1
29	04-552T1	Rod, Decelerator	1
30	19-140	Yoke	2
31	19-143	Clevis Pin	2
32	19-238	Cotter Pin	2
33	19-088	Nut, 5/16 NC	2
34	24-214	Lever (D)	1
35	54-364	Knob	2
36	24-216	Shaft	1
37	01-1906	Lever (D)	1
37A	24-212	Hub (used on early tractors w/single speed transfer case)	
38	01-1050	Grommet	2
39	01-2867	Cable, Trans 2-speed (D)	1
40	19-141	Yoke	2
41	19-144	Clevis Pin	2



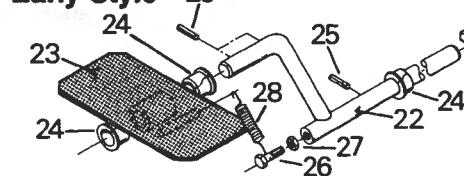
Ref.	Part No.	Description	Qty.

***NOTE:** The Early Style shaft & pedal, items 22 & 23, may no longer be available, in which case both of the later style must be ordered if replacement of either one is necessary.

Later Style



Early Style

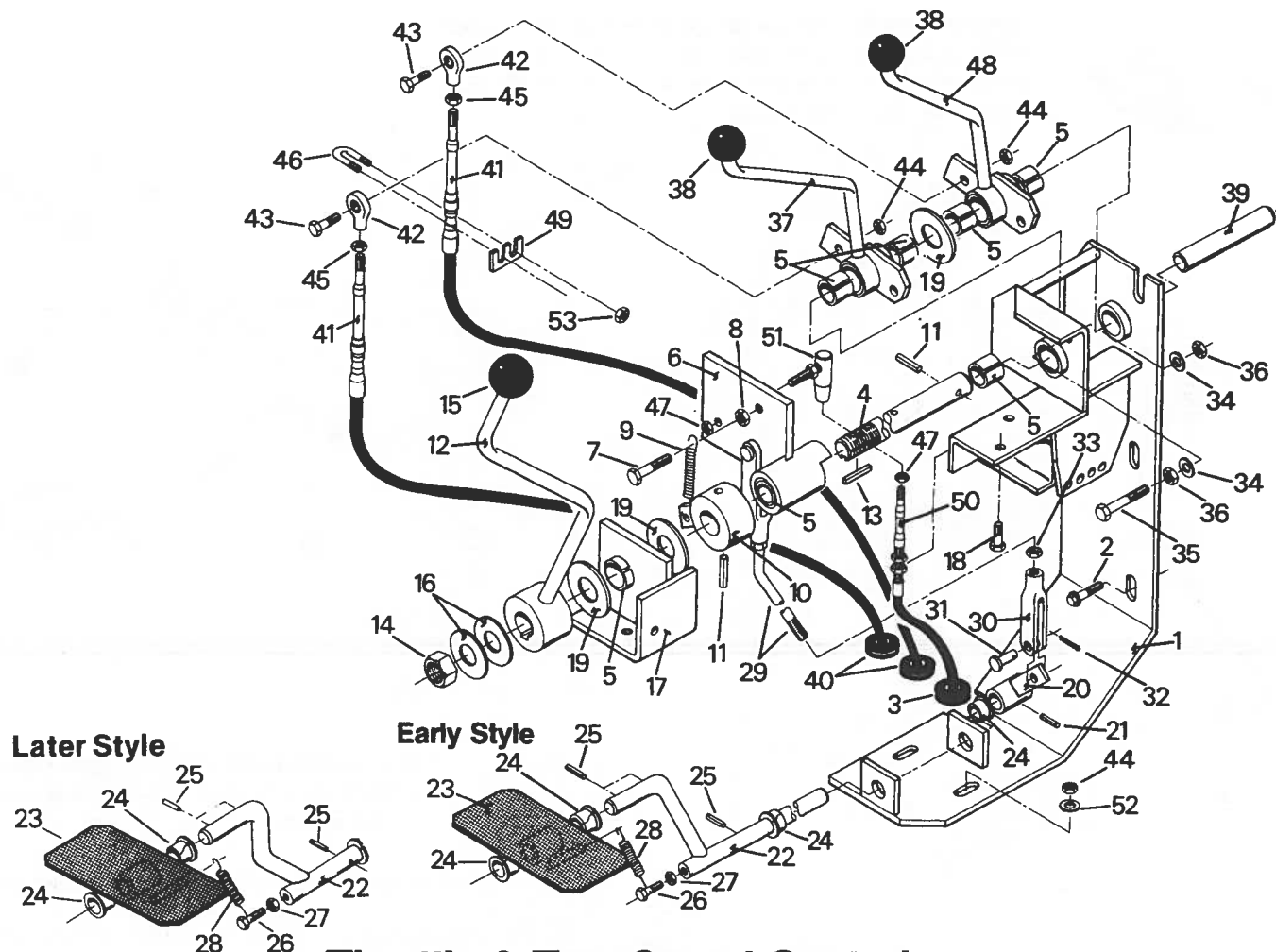


Throttle & Two Speed Controls

Later Style

Ref.	Part No.	Description	Qty.
1	01-4359T1	Support, Lever (D)	1
2	19-957	Screw, 5/16 x 3/4 UNC	3
3	01-1051	Grommet	1
4	04-551	Shaft	1
5	24-209	Bearing	8
6	01-4251	Lever	1
7	19-019	Capscrew, 3/8 x 1-1/2 UNC	1
8	19-078	Nut, 3/8 UNC	1
9	11-015	Spring	1
10	04-570	Lever	1
11	19-950	Roll Pin	2
12	04-564	Lever, Throttle	1
13	19-951	Key	1
14	19-496	Nut, 3/4 UNF	1
15	24-210	Knob	1
16	04-577	Washer, Spring	2
17	04-574T3	Support	1
18	19-288	Capscrew, 5/16 x 5/8 UNC	2
19	04-566	Disc	3
20	04-556	Lever	1
21	19-505	Roll Pin	1

Ref.	Part No.	Description	Qty.
22	04-557T1	Shaft (Early Style)*	1
	60-1476T1	Shaft (Later Style)	
23	04-554	Pedal (Early Style)*	1
	60-1475T1	Pedal (Later Style)	
	24-013	Pad, Decelerator Pedal	1
24	24-206	Bearing	4
25	19-952	Roll Pin	3
26	19-3061	Screw, #10 NC x 3/4	1
27	19-567	Nut, #10 UNC	1
28	11-021	Spring	1
29	04-552	Rod, Decelerator	1
30	19-140	Clevis	2
31	19-143	Clevis Pin	2
32	19-238	Cotter Pin	2
33	19-088	Nut, 5/16 UNC	2
34	19-224	Washer, 3/8	2
35	19-022	Capscrew, 3/8 x 2-1/2 UNC	1
36	19-295	Nut, 3/8 UNC	2
37	02-2524T3	Lever, 2-Speed Trans (D)	1
38	54-364	Knob	2
39	24-216	Shaft	1



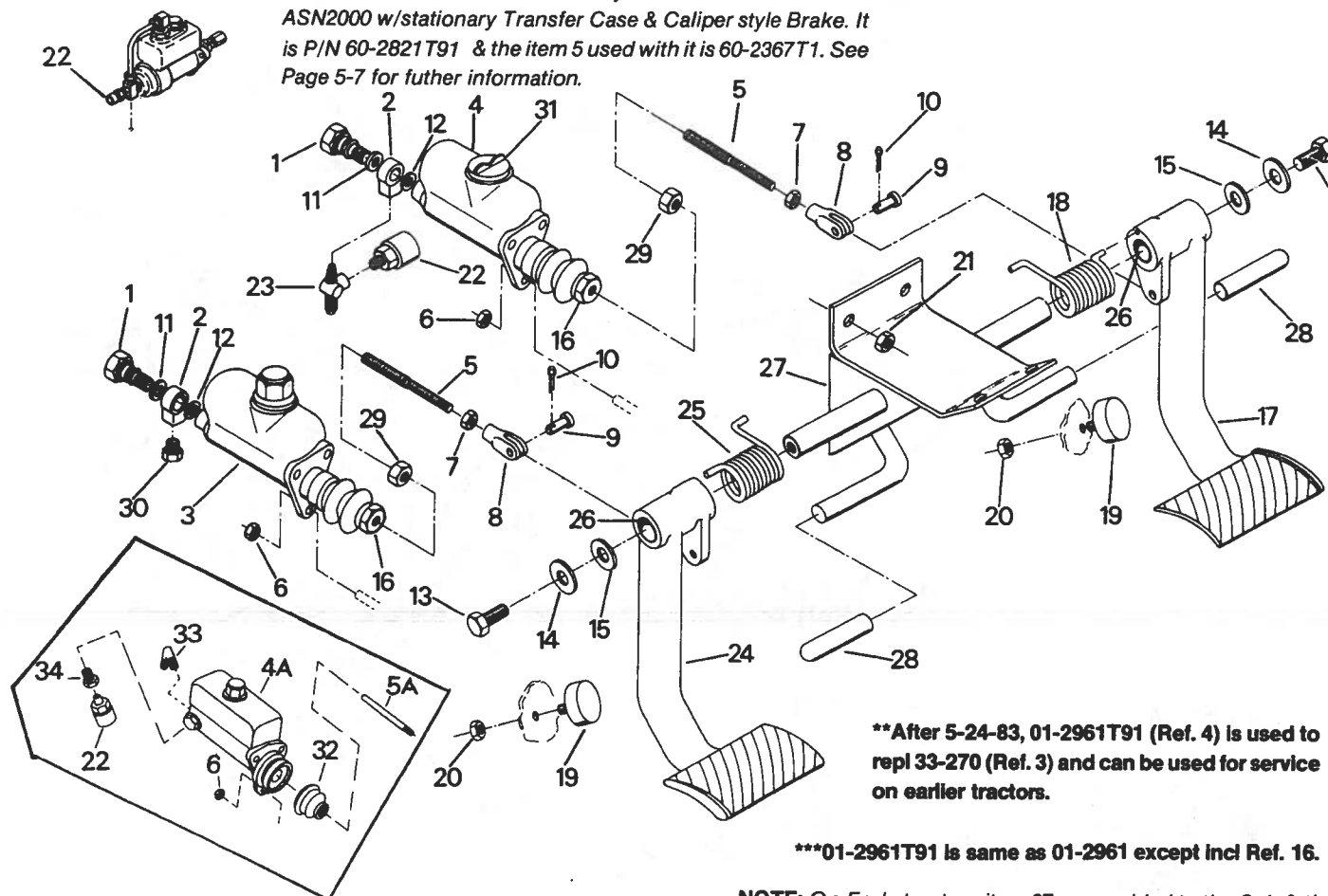
Throttle & Two Speed Controls

Later Style

Ref.	Part No.	Description	Qty.
40	01-1050	Grommet	2
41	01-4252	Cable, (all 2-speed trans) & (2-speed transfer case BSN2000)	1
	01-3561	Cable (2-speed transfer case ASN2000)	
42	01-3332	Rod End, Female	2
43	19-007	Capscrew	2
44	19-5777	Lock Nut	4
45	19-236	Jam Nut	2
46	19-5402	U-Bolt	2
47	19-308	Nut	2

Ref.	Part No.	Description	Qty.
48	02-2523T3	Lever, 2-Speed Transfer Case	1
49	02-3008T1	Shim	2
50	01-4481	Cable, Throttle (w/855 Cummins engine)	1
	29-058	Cable, Throttle (w/all other engines)	1
51	06-1431	Ball Joint	1
52	19-700	Washer, 3/8	2
53	19-509	Lock Nut, 5/16 UNF	4

***SPECIAL NOTE:** The master cyl shown at left is used ASN2000 w/stationary Transfer Case & Caliper style Brake. It is P/N 60-2821T91 & the item 5 used with it is 60-2367T1. See Page 5-7 for further information.



NOTE: On Early tractors item 27 was welded to the Cab & the Shaft was a separate part, 05-429.

Clutch & Brake Controls

Ref.	Part No.	Description	Qty.
1	31-663	Bolt, Outlet Port	2
2	31-664	Fitting, Swivel Type	2
3	33-270**	Master Cylinder, Clutch	1
	35-1008	Minor Repair Kit	1
4	01-2961T91***	Master Cylinder, Brake (D) w/2 Speed Transfer Case	1
	35-1079	Minor Repair Kit	1
4A	33-063	Master Cyl, Brake (D) w/Single Speed Transfer Case	1
	33-117	Minor Repair Kit	1
5*	01-2962	Push Rod 4-1/8", (D) (early 2 speed)	2
	01-3509	Push Rod (D)(Late 2 speed)	1
5A	05-427	Push Rod (single speed)	1
	05-428	Push Rod (used on item 3 on early tractors before item 16 was used)	1
6	19-341	Lock Nut, 3/8 NC	6
7	19-091	Nut, 3/8 NF	2
8	19-139	Yoke	2
9	19-145	Pin, Clevis	2
10	19-124	Cotter Pin	2
11	01-1799	Gasket	2

Ref.	Part No.	Description	Qty.
12	01-1800	Gasket	2
13	19-633	Capscrew, 1/2 NC x 3/4	2
14	19-109	Washer, 1/2	2
15	54-294	Washer	2
16	01-2960	Push Rod	1
17	54-273	Brake Pedal	1
18	11-019	Spring, Brake Pedal Return	1
19	04-1019	Bumper Stop	2
20	19-802	Lock Nut, 5/16 NC	2
21	19-653	Lock Nut, 1/2 NC	4
22	22-729	Switch, Hydraulic	1
23	01-3100	Tee	1
24	54-271	Clutch Pedal	1
25	11-020	Spring, Clutch Pedal Return	1
26	24-208	Bearing	4
27	01-3416	Bracket Weldment (see Note)	1
28	01-3520	Molding, (Repl 32-311) (B)	2
29	19-092	Nut, 7/16 NF	2
30	31-673	Fitting	1
31	01-9956	Cap, Brake Master Cylinder	1
32	33-064	Boot	1
32	31-674	Elbow	1
34	31-653	Plug, Tapped	1

Section 2 - Electrical

Description	Page
Engine Electrical (855 Cummins Engine)	2-1 & 2-2
Engine Electrical (3306 Cat Engine)	2-3 & 2-4
Engine Electrical (903 Cummins Engine)	2-5 & 2-6
Engine Electrical (3406 Cat Engine)	2-7 & 2-8
Starters	2-9 to 2-11
Alternators	2-12 & 2-13
Dash Electrical	2-14 to 2-21
Cab Front Electrical	2-22
Audio Alarm	2-23
Frame Electrical	2-24 to 2-27
Starter & Battery Electrical (ASN2716)	2-27A
Lights	2-28
Cab Overhead Electrical	2-29

Section 2 - Electrical

Page	Old P/N	New P/N	Code	Model	SN Break
2-1	22-753	01-4223	D	ST 220	103-00218 to 103-00229
			D	ST 251	106-00245 to 106-00255
			D	ST 310	not used
2-1	01-4223	01-6664	D	ST 220	model discontinued
2-2				ST 251	106-00256 to 106-00290
				ST 251CP	106-00291 to 106-00326
				ST 310	107-00457 to 107-00516
				ST 310CP	107-00517 to 107-00561
2-2	01-6664	01-9570	D	ST 220	model discontinued
				ST 251CP	106-00327 to 106-00762
				ST 210CP	107-00562 to 107-00923
2-2	01-9570	20-1192T1	D	ST 220	model discontinued
				ST 251CP	106-00763
				ST 310CP	107-00924
				ST 280	110-00001
2-3	22-756	01-4226	D	ST 250	104-00297 to 104-01001
				ST 270	105-00426
2-3	01-4226	01-4860	D	ST 250	not used
				ST 270	105-00440* to 105-00585
2-3	01-4860	01-8036	D	ST 250	not used
2-4				ST 270	105-00586 to 105-00900
2-4	01-8036	20-1191T1	D	ST 225	109-00001 to 109-00327
				ST 250	not used
				ST 270	105-00901 to 105-01030
2-4	20-1191T1	20-1425T1	D	ST 225	109-00328
				ST 250	104-01001
				ST 270	105-01031
2-5	22-757	01-4225	D	ST 320	108-00197 to 108-00211
				ST 350	not yet in production
2-5	01-4225	01-5507	D	ST 320	model discontinued
				ST 350	139-00001 to 139-00020
2-5	01-5507	01-8037	D	ST 320	model discontinued
2-6				ST 350	139-00021 to 139-00060
2-6	01-8037	20-1195T1	D	ST 320	model discontinued
				ST 350	139-00061
2-7	22-1070	01-4224	D	ST 325	123-00326 to 123-00346
2-7	01-4224	01-6662	D	ST 325	123-00347 to 123-00547
2-8					
2-8	01-6662	01-8033	D	ST 325	123-00548 to 123-00910
2-8	01-8033	20-1193T1	D	ST 325	123-00911
				ST 280	111-00001

Page	Old P/N	New P/N	Code	Model	SN Break
2-9	22-1147 22-1148 01-6903	20-1296T91 20-1294T91 20-1295T91	B B B	ST 220 ST 225 ST 250 ST 270 ST 251CP ST 310CP ST 320 ST 350 ST 280 ST 280 ST 325	103-00230 109-00001 104-01001 105-00993 106-00926 107-01000 108-00212 139-00069 110-00001 111-00001 123-01104
2-14	Dash Elec 1st Bulkhead Style	Dash Elec 2nd Bulkhead Style 01-3920	D	ST 220 ST 250 ST 270	103-00218 to 103-00229 104-00297 to 104-00330 105-00426 to 105-00471
2-16			D	ST 251 ST 310 ST 320 ST 325	106-00223 to 106-00255 107-00456 to 107-00462 108-00197 to 108-00212 123-00331 to 123-00369
2-16	Dash Elec 2nd Bulkhead Style 01-3920 29-027	Dash Elec 3rd Bulkhead Style 01-7092 01-7094	D	ST 220 ST 250 ST 270	model discontinued not used 105-00472 to 105-00585
2-18			D D	ST 251 ST 310 ST 320 ST 325 ST 350 ST 251CP ST 310CP	106-00256 to 106-00290 107-00463 to 107-00516 model discontinued 123-00370 to 123-00547 139-00001 to 139-00020 106-00291 to 106-00326 107-00527 to 107-00561
Note: Ending S/N Break applies only to 01-7092. See 2nd Group below for end of 01-7094.					
2-18	01-7092 Dash Elec 3rd Bulkhead Style	01-8040T3	D	ST 220	model discontinued
2-20		Dash Elec Packard	D	ST 250 ST 270 ST 251CP ST 310CP ST 320 ST 325 ST 350	not used 105-00586 to 105-00900 106-00327 to 106-00762 107-000562 to 107-000923 model discontinued 123-00548 to 123-00910 139-00021 to 139-00060
2-20	01-8040T3 01-7094	20-1226T1 20-1216T91	D D	ST 220 ST 225 ST 250	model discontinued 109-00001 104-00331
2-22		Cab Front Elec	D	ST 270 ST 251CP ST 310CP ST 320 ST 325 ST 350 ST 280 ST 280	105-00901 106-00763 107-00924 model discontinued 123-00911 139-00061 110-00001 111-00001
2-23					

Page	Old P/N	New P/N	Code	Model	SN Break
2-24	01-8615	01-8029	D	ST 220	model discontinued
2-26	Frame Elec Early	01-8029T1	D	ST 250	104-00331 To S/N 2000 for 01-8032 only on all models.
		Frame Elec Later	D	ST 270	105-00586 only on all models.
				ST 320	model discontinued
		22-755	G	ST 325	123-00548
				ST 350	139-00021
	22-032	22-613*	D	ST 251CP	106-00327
2-29	01-3922	01-5970	D	ST 310CP	107-00562
				ST 225	109-00001
				ST 280	110-00001
				ST 280	111-00001
					Ending Break doesn't apply to 22-613, 01-5970 and 01-8029T1 as they are still in use. *22-613 may not have come into use until shortly after beginning breaks which can be determined by comparison to the illustration.
2-26	01-8032	20-1427	C	all	all at S/N 02000
2-24	22-228	01-4199	D	ST 220	model discontinued
				ST 225	109-00001
				ST 250	104-00297
				ST 270	105-00426
				ST 251CP	106-00291
				ST 310CP	107-00517
				ST 320	108-00197
				ST 325	123-00326
				ST 280	110-00001
				St 280	111-00001
2-29	22-762	01-3922	D	ST 220	103-00218 to 103-00229
				ST 250	104-00297 to 104-00331
				ST 270	105-00426 to 105-00586
				ST 251	106-00223 to 106-00327
				ST 310	107-000456 to 107-00562
				ST 320	108-00197 to 108-00212
				ST 325	123-00331 to 123-00547
				ST 225	not yet in production
				ST 350	139-00001 to 139-00020
				ST 280	not yet in production

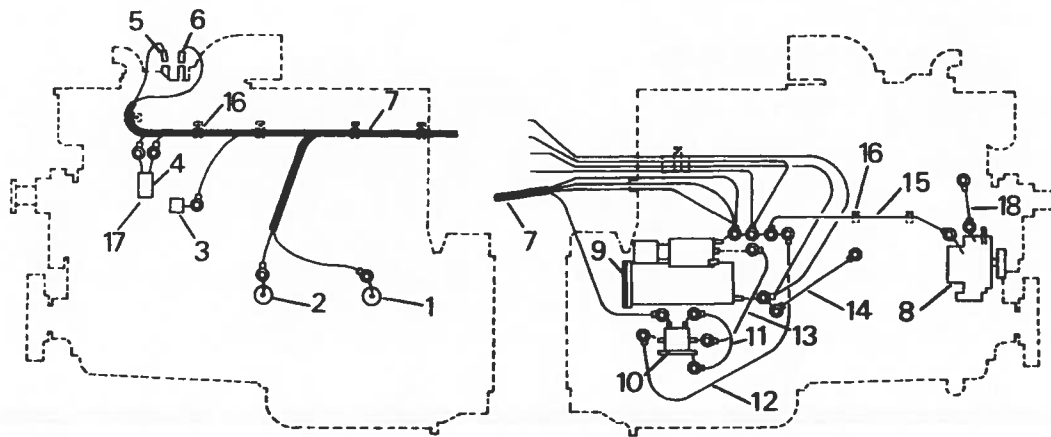


Packard Connectors



Bulkhead Connectors

Early Style (Bulkhead Connectors)

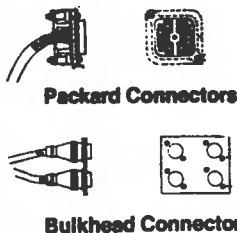
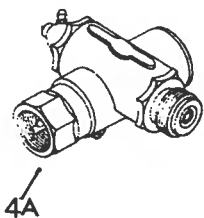


NOTE: Engine Wire Harness P/N 22-753 was used on early Series III ST models with the external style neutral start switch. Engine Wire Harness P/N 01-4223 is used with the internal style neutral start switch.

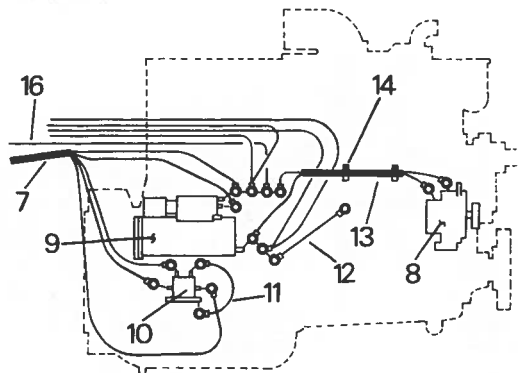
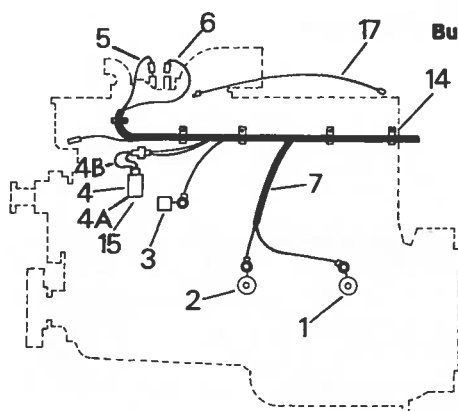
Engine Electrical Cummins 855 (Early)

Ref.	Part No.	Description	Qty.
1	01-2805	Switch, Oil Press.	1
2	01-2227T2	Sender, Oil Press.	1
3		Fuel Solenoid (Cummins Part)	1
4		Sender, Tach. (See item 9, Page 1-25)	1
5	20-1305T1	Sender, Temp (22-731) (E)	1
6	20-1466T1	Switch, Temp (22-681) (E)	1
7	22-753	Wire Harness, Engine (D)	1
	01-4223	Wire Harness, Engine (D) (see Note)	1
8	22-702	Alternator (see Pages 2-12 to 2-13)	1
9		Starter (see Pages 2-9 to 2-11)	1
10	20-1608T1	Solenoid (06-1496) (B)	1
11	22-555	Wire - Slave Solenoid to Ground	1

Ref.	Part No.	Description	Qty.
12	22-553	Wire - Starter Solenoid to Slave Solenoid	1
13	22-557	Wire - Starter Solenoid Terminal to Slave Solenoid	1
14	22-033	Wire - Starter Ground to Engine	1
15	22-748	Wire - Starter Solenoid to Alternator	1
16	22-631	Clamp	7
17	22-730	Drive Tip, Tachometer	1
18	01-1210	Strap Assy - Alternator to Engine	1



Later Style (Bulkhead & Packard Connectors)



NOTE: A straight adapter, P/N 90-3747T1 can be used as a service replacement for the 90° adapter (Ref. 4A), however, a new drive tip, 90-3748T1 must also be used.

NOTE: The item 7 Harness changes occurred for the following reasons. 01-6664 - Tach Sender changed and Starter wiring changed. 01-9570 - change to square Packard Cab Connector. 20-1192T1 - needed when item 10 moved to Cab front. (see Page 2-22).

Engine Electrical Cummins 855 (Later)

Ref.	Part No.	Description	Qty.
1	01-2805	Switch, Oil Press	1
2	01-2227T2	Sender, Oil Press	1
3		Fuel Solenoid (Cummins Part)	1
4		Sender, Tachometer (see Ref 9, Page 1-25)	1
4A	06-054	Adapter, Tachometer (use w/20-1511T1 tachometer after 8-1-82)	
4B	20-1582T1	Wire Harness, Tachometer Sender (use only when 06-054 is used)	
5	20-1305T1	Sender, Temp (22-731) (E)	1
6	20-1466T1	Switch, Temp (22-681) (E)	1
7	01-6664	Wire Harness, Engine (D) (Bulkhead Connectors)	1
	01-9570	Wire Harness, Engine (D) (Packard Connectors) (w/Solenoid (Ref 10) as shown)	
	20-1192T1	Wire Harness, Engine (D) (Packard Connectors) (w/Solenoid (Ref 10) mounted on Cab)	

Ref.	Part No.	Description	Qty.
8		Alternator (see Pages 2-12 to 2-13)	1
9		Starter (see Page 2-9)	1
10	20-1608T1	Solenoid (60-1496) (B) (on Cab front on later models)	1
11	22-555	Wire - Solenoid to Ground (not on models w/Solenoid on Cab front)	1
12	22-033	Wire - Starter Ground to Engine	1
13	01-6663	Wire Harness, Alternator	1
14	22-631	Clamp	7
15		Drive Tip, Tachometer (see Page 1-25)	1
16	01-6950T1	Cable - Starter to Junction Block	1
17	01-9786	Wire - Temperature Sender (ST 310 CP only)	1

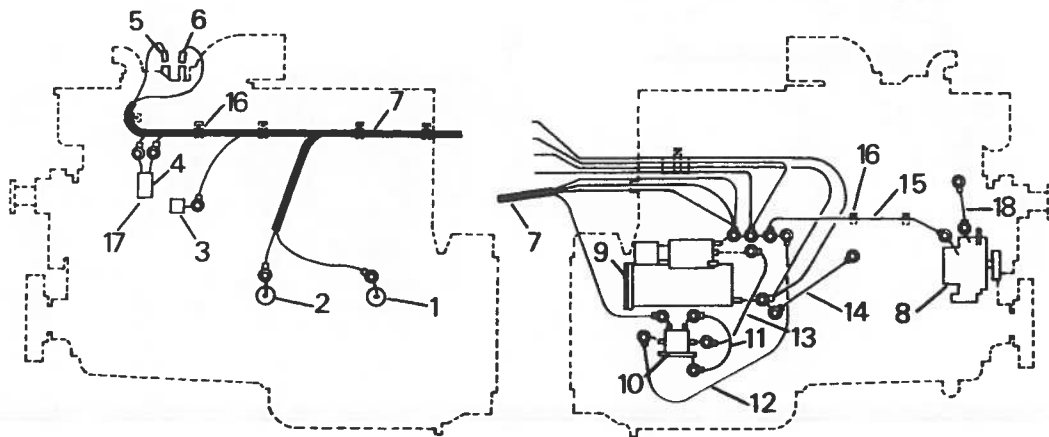


Packard Connectors



Bulkhead Connectors

Early Style (Bulkhead Connectors)

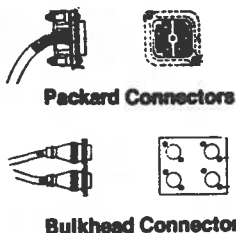
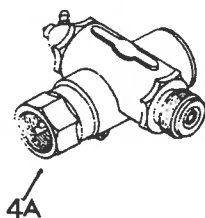


NOTE: Engine Wire Harness P/N 22-753 was used on early Series III ST models with the external style neutral start switch. Engine Wire Harness P/N 01-4223 is used with the internal style neutral start switch.

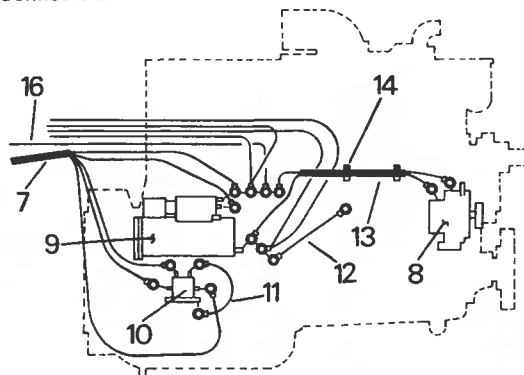
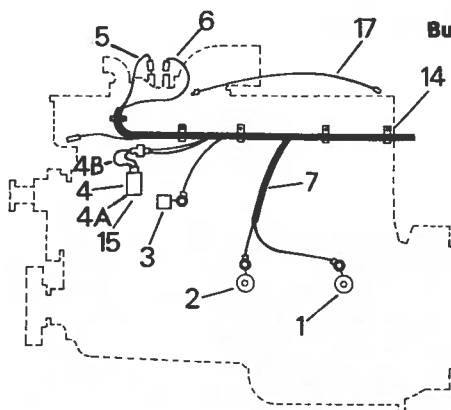
Engine Electrical Cummins 855 (Early)

Ref.	Part No.	Description	Qty.
1	01-2805	Switch, Oil Press.	1
2	01-2227T2	Sender, Oil Press.	1
3		Fuel Solenoid (Cummins Part)	1
4		Sender, Tach. (See item 9, Page 1-25)	1
5	20-1305T1	Sender, Temp (22-731) (E)	1
6	20-1466T1	Switch, Temp (22-681) (E)	1
7	22-753	Wire Harness, Engine (D)	1
	01-4223	Wire Harness, Engine (D) (see Note)	1
8	22-702	Alternator (see Pages 2-12 to 2-13)	1
9		Starter (see Pages 2-9 to 2-11)	1
10	20-1608T1	Solenoid (06-1496) (B)	1
11	22-555	Wire - Slave Solenoid to Ground	1

Ref.	Part No.	Description	Qty.
12	22-553	Wire - Starter Solenoid to Slave Solenoid	1
13	22-557	Wire - Starter Solenoid Terminal to Slave Solenoid	1
14	22-033	Wire - Starter Ground to Engine	1
15	22-748	Wire - Starter Solenoid to Alternator	1
16	22-631	Clamp	7
17	22-730	Drive Tip, Tachometer	1
18	01-1210	Strap Assy - Alternator to Engine	1



Later Style (Bulkhead & Packard Connectors)



NOTE: A straight adapter, P/N 90-3747T1 can be used as a service replacement for the 90° adapter (Ref. 4A), however, a new drive tip, 90-3748T1 must also be used.

NOTE: The item 7 Harness changes occurred for the following reasons. 01-6664 - Tach Sender changed and Starter wiring changed. 01-9570 - change to square Packard Cab Connector. 20-1192T1 - needed when item 10 moved to Cab front. (see Page 2-22).

Engine Electrical Cummins 855 (Later)

Ref.	Part No.	Description	Qty.
1	01-2805	Switch, Oil Press	1
2	01-2227T2	Sender, Oil Press	1
3		Fuel Solenoid (Cummins Part)	1
4		Sender, Tachometer (see Ref 9, Page 1-25)	1
4A	06-054	Adapter, Tachometer (use w/20-1511T1 tachometer after 8-1-82)	
4B	20-1582T1	Wire Harness, Tachometer Sender (use only when 06-054 is used)	
5	20-1305T1	Sender, Temp (22-731) (E)	1
6	20-1466T1	Switch, Temp (22-681) (E)	1
7	01-6664	Wire Harness, Engine (D) (Bulkhead Connectors)	1
	01-9570	Wire Harness, Engine (D) (Packard Connectors) (w/Solenoid (Ref 10) as shown)	
	20-1192T1	Wire Harness, Engine (D) (Packard Connectors) (w/Solenoid (Ref 10) mounted on Cab)	

Ref.	Part No.	Description	Qty.
8		Alternator (see Pages 2-12 to 2-13)	1
9		Starter (see Page 2-9)	1
10	20-1608T1	Solenoid (60-1496) (B) (on Cab front on later models)	1
11	22-555	Wire - Solenoid to Ground (not on models w/Solenoid on Cab front)	1
12	22-033	Wire - Starter Ground to Engine	1
13	01-6663	Wire Harness, Alternator	1
14	22-631	Clamp	7
15		Drive Tip, Tachometer (see Page 1-25)	1
16	01-6950T1	Cable - Starter to Junction Block	1
17	01-9786	Wire - Temperature Sender (ST 310 CP only)	1

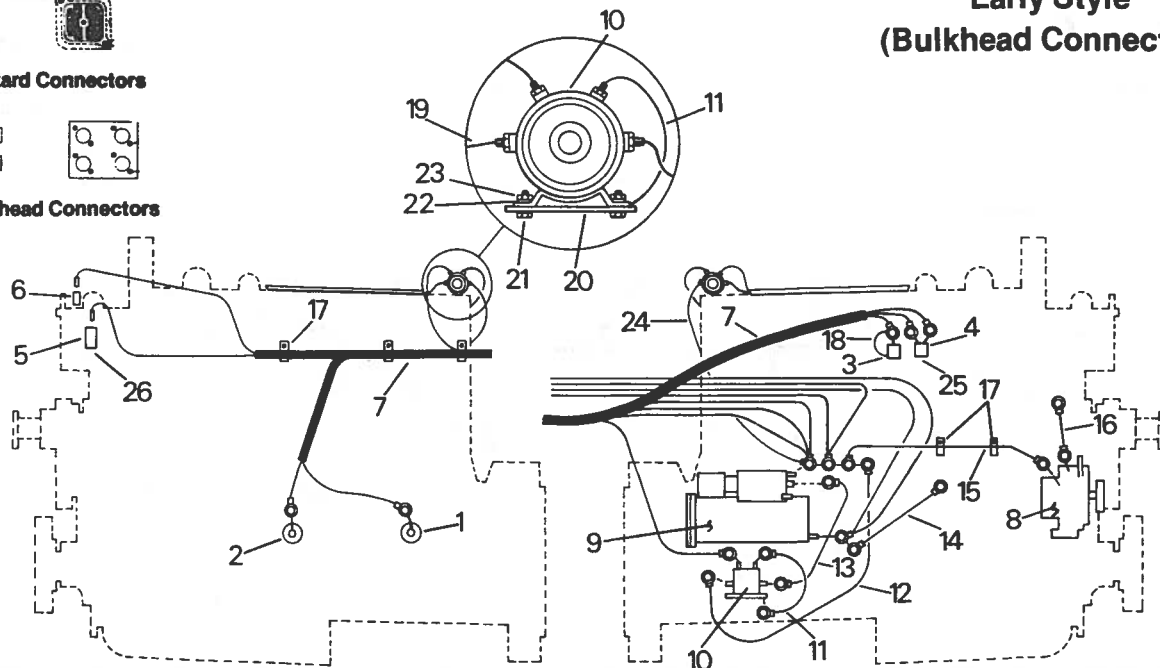


Packard Connectors



Bulkhead Connectors

Early Style (Bulkhead Connectors)



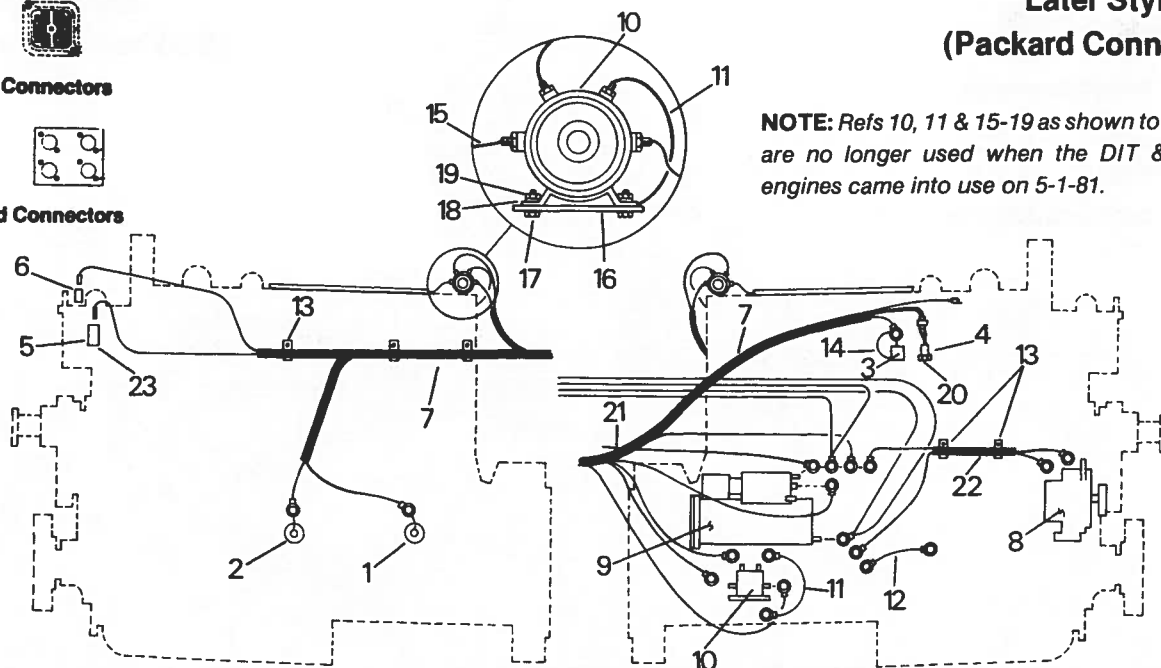
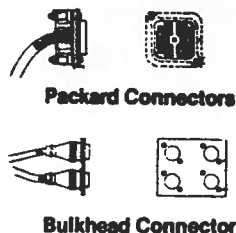
***NOTE:** Engine Wire Harness P/N 22-756 was used on early Series III ST models with the external style neutral start switch. Engine Wire Harness P/N 01-4226 should be used with Sending Unit P/N 22-726 and the internal style neutral start switch. Engine Wire Harness P/N 01-4860 should be used with Sending Unit P/N 01-4222 and has wire P/N 22-1005 (Ref. 24) incorporated into the harness.

Engine Electrical Cat 3306 (Early)

Ref.	Part No.	Description	Qty.
1	01-2805	Switch, Oil Press.	1
2	01-2227T2	Sender, Oil Press.	1
	31-607	Adapter (to mt Ref 1 & 2) (not shown)	2
3	NSS	Fuel, Solenoid (Cat Part)	1
4		Sending Unit, Tach (see item 9, Page 1-25)	1
5	20-1305T1	Sender, Temp (22-731) (E)	1
6	20-1466T1	Switch, Temp (22-681) (E)	1
7	22-756	Wire Harness, Engine* (D)	1
	01-4226	Wire Harness, Engine* (D)	1
	01-4860	Wire Harness, Engine* (D)	1
8		Alt (see Pages 2-12 to 2-13)	1
9		Starter (see Pages 2-9 to 2-11)	1
10	20-1608T1	Solenoid (06-1496) (B)	2
11	22-555	Wire - Slave Solenoid to Ground	2
12	22-553	Wire - Starter Solenoid to Slave Solenoid	1
13	22-557	Wire - Starter Solenoid Terminal to Slave Solenoid	1

Ref.	Part No.	Description	Qty.
14	22-033	Wire - Starter Ground to Engine	1
15	22-793	Wire - Starter Solenoid to Alternator	1
16	01-1210	Strap Assembly - Alternator to Engine	1
17	22-631	Clamp	5
18	22-1080	Wire - Fuel Solenoid to Ground	1
19	22-814	Wire - Solenoid to Glow Plugs	1
20	51-265	Mount, Solenoid	1
21	19-001	Capscrew	2
22	19-223	Washer	2
23	19-076	Nut	2
24	22-1005	Wire - Starter to Glow Plug Solenoid (see Note)	1
25	22-730	Drive Tip, Tachometer	1
26	31-395	Adapter	1
27	01-6950T1	Cable - Starter to Junction Block (used only with P/N 01-4860) (not shown)	1

Later Style (Packard Connectors)



NOTE: Refs 10, 11 & 15-19 as shown to the left are no longer used when the DIT & DITA engines came into use on 5-1-81.

NOTE: This Engine Electrical arrangement is used when the alternator wire harness (Ref. 22) is used.

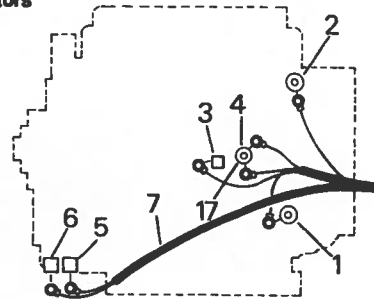
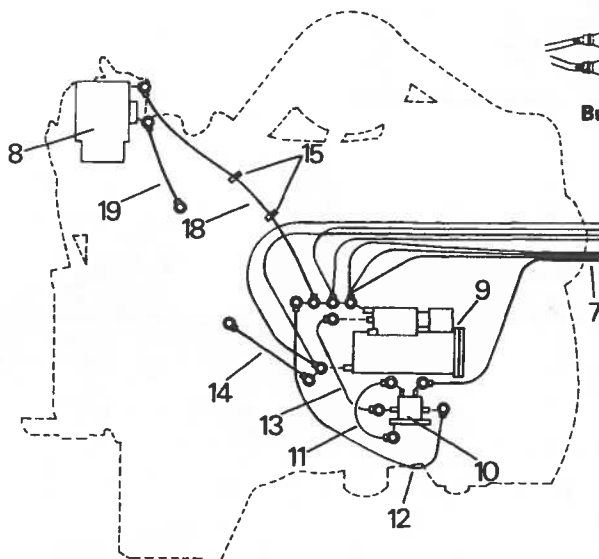
NOTE: The item 7 harness changes occurred for the following reasons: 01-8036 - change to the square Packard Cab Connector. 20-1191T1 - changed when the item #10 solenoid, beside the starter moved to the cab front. 20-1425T1 - changed for the Direct Injection Engines (elimination of glow plugs and addition of Start Aid).

Engine Electrical Cat 3306 (Later)

Ref.	Part No.	Description	Qty.
1	01-2805	Switch, Oil Press.	1
2	01-2227T2	Sender, Oil Press.	1
	31-607	Adapter (to mt Ref 1 & 2) (not shown)	1
3		Fuel Solenoid (Cat Part)	1
4		Sending Unit, Tach (see item 9, Page 1-25)	1
5	20-1305T1	Sender, Temp (22-731) (E)	1
6	20-1466T1	Switch, Temp (22-681) (E)	1
7	01-8036	Wire Harness, Engine (D) (w/Solenoid (Ref 10) as shown) (after 10-1-78)	1
	20-1191T1	Wire Harness, Engine (D) (w/Solenoid (Ref 10) mounted on Cab) (after 2-1-80)	1
	20-1425T1	Wire Harness Engine (D) (For Direct Injection Engine) (after 5-1-81)	1
8		Alt (see Page 2-12 to 2-13)	1
9		Starter (see Pages 2-9 to 2-11)	1
10	20-1608T1	Solenoid (06-1496) (B) (1 mounted on cab after 2-1-80)	2

Ref.	Part No.	Description	Qty.
11	22-555	Wire - Solenoid to Ground (qty 1 on models w/Solenoid on Cab front)	2
12	22-033	Wire - Starter Ground to Engine	1
13	22-631	Clamp	5
14	22-1080	Wire - Fuel Solenoid to Ground	1
15	22-814	Wire - Solenoid to Glow Plugs	1
16	51-265	Mount, Solenoid	1
17	19-001	Capscrew	2
18	19-223	Washer	2
19	19-076	Nut	2
20		Drive Tip, Tachometer (see page 1-25)	1
21	01-6950T1	Cable - Starter to Junction Block	1
22	01-6663	Wire Harness, Alternator	1
23	31-395	Adapter	1

Early Style (Bulkhead Connectors)



NOTE: Engine Wire Harness P/N 22-757 was used on early Series III ST models with the external style neutral start switch. Engine Wire Harness P/N 01-4225 should be used with Sending Unit P/N 22-726 and the internal style neutral start switch. Engine Wire Harness P/N 01-5507 should be used with Sending Unit P/N 01-4222.

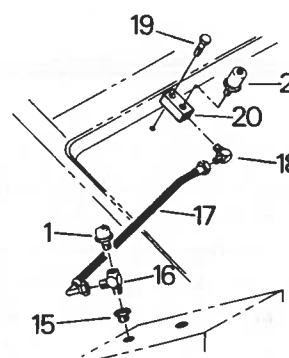
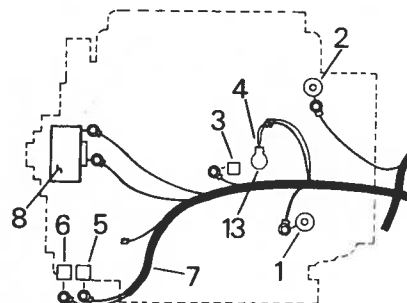
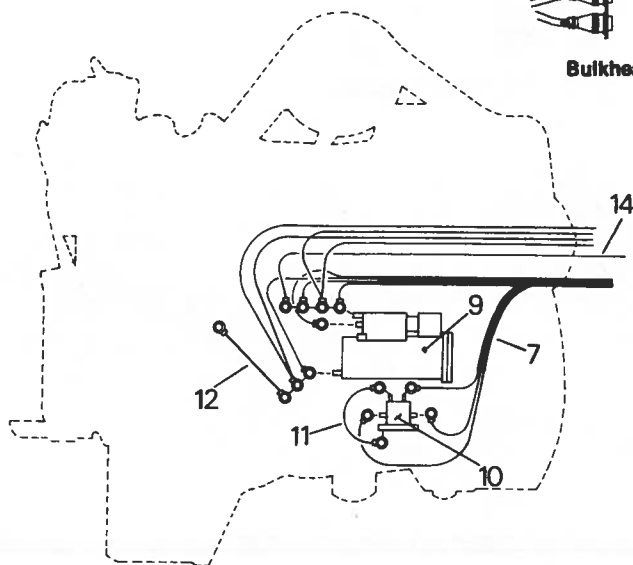
Engine Electrical Cummins 903 (Early)

Ref.	Part No.	Description	Qty.
1	01-2805	Switch, Oil Pressure	1
2	01-2227T2	Sender, Oil Pressure	1
3		Fuel Solenoid (Cummins Part)	1
4		Sending Unit Tachometer (see item 9 Page 1-25)	1
5	20-1305T1	Sender, Temp (22-731) (E)	1
6	20-1466T1	Switch, Temp (22-681) (E)	1
7	22-757	Wire Harness, Engine (D)	1
	01-4225	Wire Harness, Engine (D) (see Note)	
	01-5507	Wire Harness, Engine (D) (see Note)	
8	22-702	Alternator (see Pages 2-12 to 2-13)	1
9		Starter (see Pages 2-9 to 2-11)	1
10	20-1608T1	Solenoid (06-1496) (B) (Mounted on Cab front on later models)	1

Ref.	Part No.	Description	Qty.
11	22-555	Wire - Slave Solenoid to Ground	1
12	22-553	Wire - Starter Solenoid to Slave Solenoid	1
13	22-557	Wire - Starter Solenoid Terminal to Slave Solenoid	1
14	22-033	Wire - Starter Ground to Engine	1
15	22-631	Clamp	2
16	01-6949	Cable - Starter to Junction Block (used only with P/N 01-5507) (not shown)	1
17	22-730	Drive Tip, Tachometer	1
18	22-794	Wire - Starter Solenoid to Alternator	1
19	01-1210	Strap Assembly - Alternator to Engine	1



Later Style
(Packard Connectors)



Engine Electrical Cummins 903 (Later)

Ref.	Part No.	Description	Qty.
1	01-2805	Switch, Oil Pressure	1
2	01-2227T2	Sender, Oil Pressure	1
3		Fuel Solenoid (Cummins Part)	1
4		Sending Unit, Tachometer (see Page 1-25)	1
5	20-1305T1	Sender, Temp (22-731) (E)	1
6	20-1466T1	Switch, Temp (22-681) (E)	1
7	01-8037	Wire Harness, Engine (D) (w/Solenoid (Ref 10) as shown)	1
	20-1195T1	Wire Harness, Engine (D) (w/Solenoid (Ref 10) mounted on Cab)	1
8		Alt (see Pages 2-12 to 2-13)	1
9		Starter (see Pages 2-9 to 2-11)	1
10	20-1608T1	Solenoid (06-1496) (B) (mounted on Cab after 2-1-80)	1

Ref.	Part No.	Description	Qty.
11	22-555	Wire - Slave Solenoid to Ground (not used on models with Slave Solenoid mounted on Cab)	1
12	22-033	Wire - Starter Ground to Engine	1
13	22-730	Drive Tip, Tachometer	1
14	01-6949	Cable - Starter to Junction Block	1
15	31-015	Reducer	1
16	31-1542	Tee	1
17	31-1040	Hose Assembly	1
18	31-661	Elbow	1
19	19-008	Capscrew	1
20	90-1231T1	Block	1



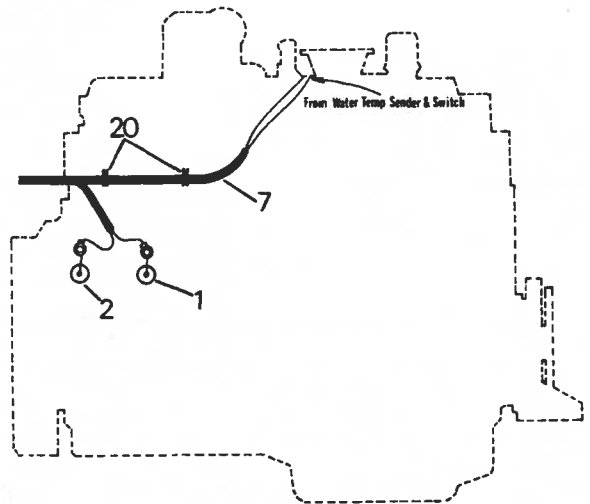
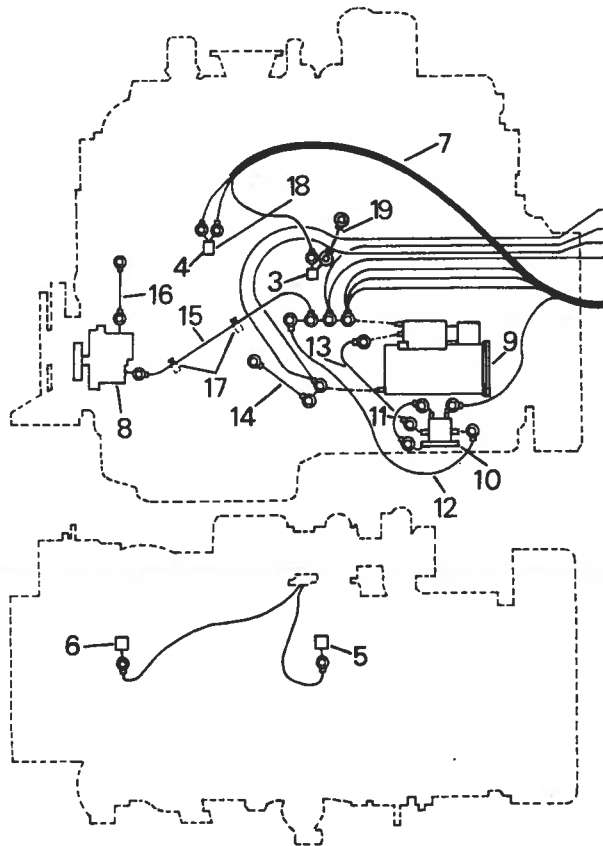
Packard Connectors



Bulkhead Connectors



Early Style (Bulkhead Connectors)



NOTE: Engine Wire Harness P/N 22-1070 was used on early Series III ST models with the external style neutral start switch. Engine Wire Harness P/N 01-4224 is used with the internal style neutral start switch.

Engine Electrical Cat 3406 (Early)

Ref.	Part No.	Description	Qty.
1	01-2805	Switch, Oil Press.	1
2	01-2227T2	Sender, Oil Pressure	1
	31-512	Adapters (to mt Ref. 1 & 2) (not shown)	2
3	NSS	Fuel Solenoid (Cat Part)	1
4		Sending Unit, Tachometer (see item 9, Page 1-25)	1
5	20-1305T1	Sender, Temp (22-731) (E)	1
6	20-1466T1	Switch, Temp (22-681) (E)	1
7	22-1070	Wire Harness, Engine (D)	1
	01-4224	Wire Harness, Engine (D) (see Note)	
8		Alt. (see Pages 2-12 to 2-13)	1
9		Starter (see Pages 2-9 to 2-11)	1
10	20-1608T1	Solenoid (06-1496) (B)	1
11	22-555	Wire - Slave Solenoid to Ground	1

Ref.	Part No.	Description	Qty.
12	22-553	Wire - Starter Solenoid to Slave Solenoid	1
13	22-557	Wire - Starter Solenoid Terminal to Slave Solenoid	1
14	22-033	Wire - Starter Ground to Engine	1
15	22-748	Wire - Starter Solenoid to Alternator	1
16	01-1210	Strap Assembly - Alternator to Engine	1
17	22-631	Clamp	2
18	22-730	Drive Tip, Tachometer	1
19	22-1080	Wire - Fuel Solenoid to Ground	1
20	22-635	Clamp	2

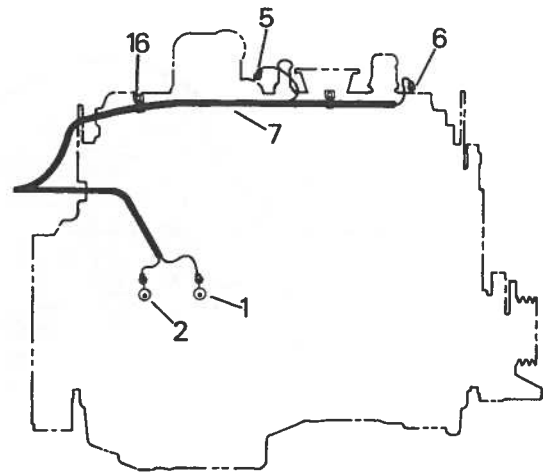
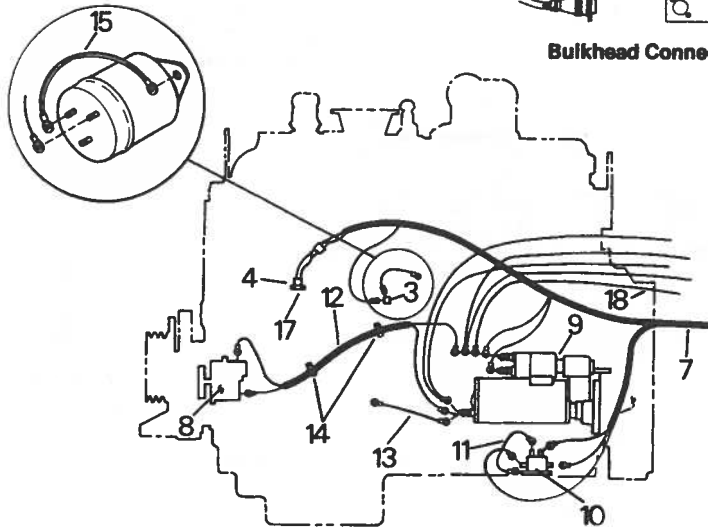


Packard Connectors



Bulkhead Connectors

Later Style (Bulkhead & Packard Connectors)



NOTE: This Engine Electrical arrangement is used when the alternator wire harness (Ref. 12) is used. The engine wire harnesses used with this arrangement are the same except that one has the Bulkhead style connectors (01-6662) and the other the Packard style connectors (01-8033).

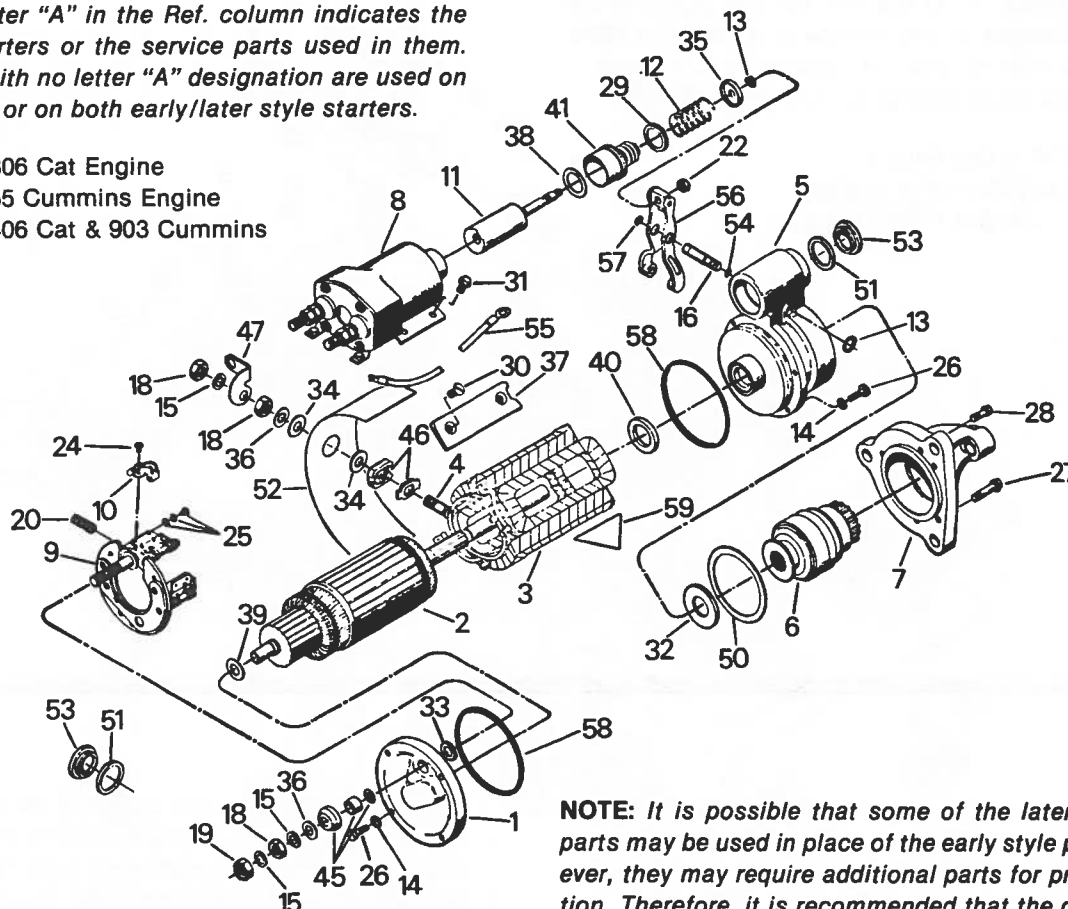
Engine Electrical Cat 3406 (Later)

Ref.	Part No.	Description	Qty.
1	01-2805	Switch, Oil Pressure	1
2	01-2227T2 31-512	Sender, Oil Pressure Adapter (to mt Ref 1 & 2) (not shown)	1 2
3		Fuel Solenoid (Cat Part)	1
4		Sending Unit, Tachometer (see item 9, Page 1-25)	1
5	20-1305T1	Sender, Temp (22-713) (E)	1
6	20-1466T1	Switch, Temp (22-681) (E)	1
7	01-6662	Wire Harness, Engine (D) (Bulkhead Connectors)	1
	01-8033	Wire Harness, Engine (D) (Packard Connectors) (w/Solenoid (Ref 10) as shown)	
	20-1193T1	Wire Harness, Engine (D) (w/Solenoid (Ref 10) on Cab front)	
8		Alt (see Pages 2-12 to 2-13)	1

Ref.	Part No.	Description	Qty.
9		Starter (see Page 2-9)	1
10	20-1608T1	Solenoid (06-1496) (B) (on Cab front on Later models)	1
11	22-555	Wire, Solenoid to Ground (not on models w/Solenoid on Cab front)	1
12	01-6661	Wire Harness, Alt	1
13	22-033	Wire, Starter Ground to Engine	1
14	22-631	Clamp	1
15	22-1080	Wire, Fuel Solenoid to Ground	1
16	22-635	Clamp	2
17		Drive Tip, Tachometer (see Page 1-25)	1
18	01-6949	Cable, Starter to Junction Block	1

NOTE: The letter "A" in the Ref. column indicates the later style starters or the service parts used in them. Those items with no letter "A" designation are used on the early style or on both early/late style starters.

- *Used on 3306 Cat Engine
- **Used on 855 Cummins Engine
- ***Used on 3406 Cat & 903 Cummins Engines



NOTE: It is possible that some of the later style "A" parts may be used in place of the early style parts; however, they may require additional parts for proper function. Therefore, it is recommended that the designated part be ordered.

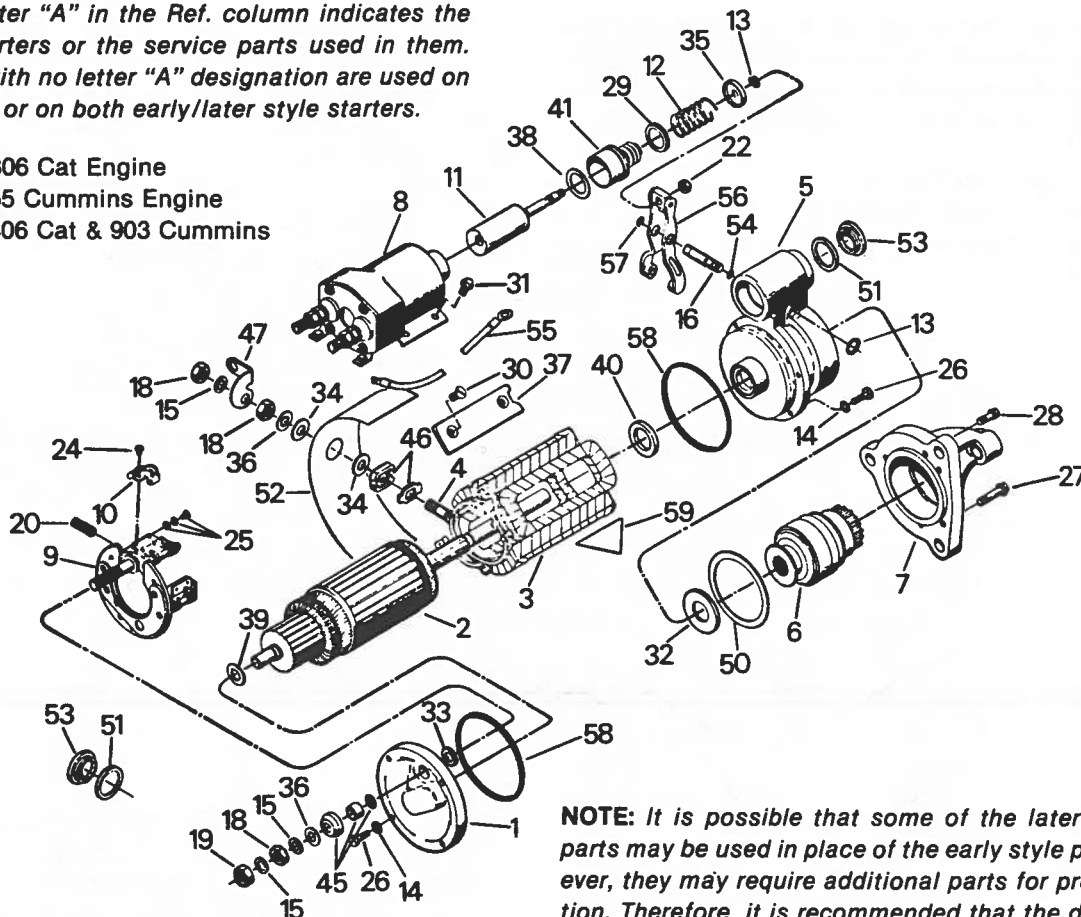
Starter Assembly

Ref.	Part No.	Description	Qty.
1-59	22-1147	Starter Assembly* (B) (Delco #1114746)	1
A	20-1296T91	Starter Assembly* (B) (Delco #1114833)	
	22-1148	Starter Assembly** (B) (Delco #1114747)	
A	20-1294T91	Starter Assembly** (B) (Delco #1114820)	
	01-6903	Starter Assembly*** (B) (Delco #1114058)	
A	20-1295T91	Starter Assembly*** (B) (Delco #1114889)	
1	22-1114	Frame (includes Ref. 21, 42 & 49)	1
1A	20-1322T91	Frame (includes Ref. 21, 42 & 49)	
2	22-1115	Armature	1
3	22-1116	Field Coil Assembly (4 coils)	1
3A	20-1323T91	Field Coil Assembly (4 coils)	
4	22-1117	Stud, Terminal	1

Ref.	Part No.	Description	Qty.
5	01-1232	Lever Housing* (includes Ref. 17, 23, 32, 44, 48, 49 & 58)	1
	22-1118	Lever Housing**	
	01-1233	Lever Housing***	
5A	20-1324T91	Lever Housing (includes Ref. 17, 23, 32, 44, 48, 49 & 58)	
6	01-1234	Drive Assembly*	1
	01-1235	Drive Assembly** - ***	
6A	20-1344T1	Drive Assembly*	
	20-1343T1	Drive Assembly** - ***	
7	01-1236	Drive Housing* - ** (includes Ref. 23, 43 & 49)	1
	22-1120	Drive Housing***	
7A	20-1325T91	Drive Housing (all) (includes Ref. 23, 43 & 49)	
8	01-1237	Solenoid Switch* - **	1
	22-1121	Solenoid Switch***	
8A	20-1326T1	Solenoid Switch* - **	
	20-1345T1	Solenoid Switch***	

NOTE: The letter "A" in the Ref. column indicates the later style starters or the service parts used in them. Those items with no letter "A" designation are used on the early style or on both early/late style starters.

- *Used on 3306 Cat Engine
- **Used on 855 Cummins Engine
- ***Used on 3406 Cat & 903 Cummins Engines



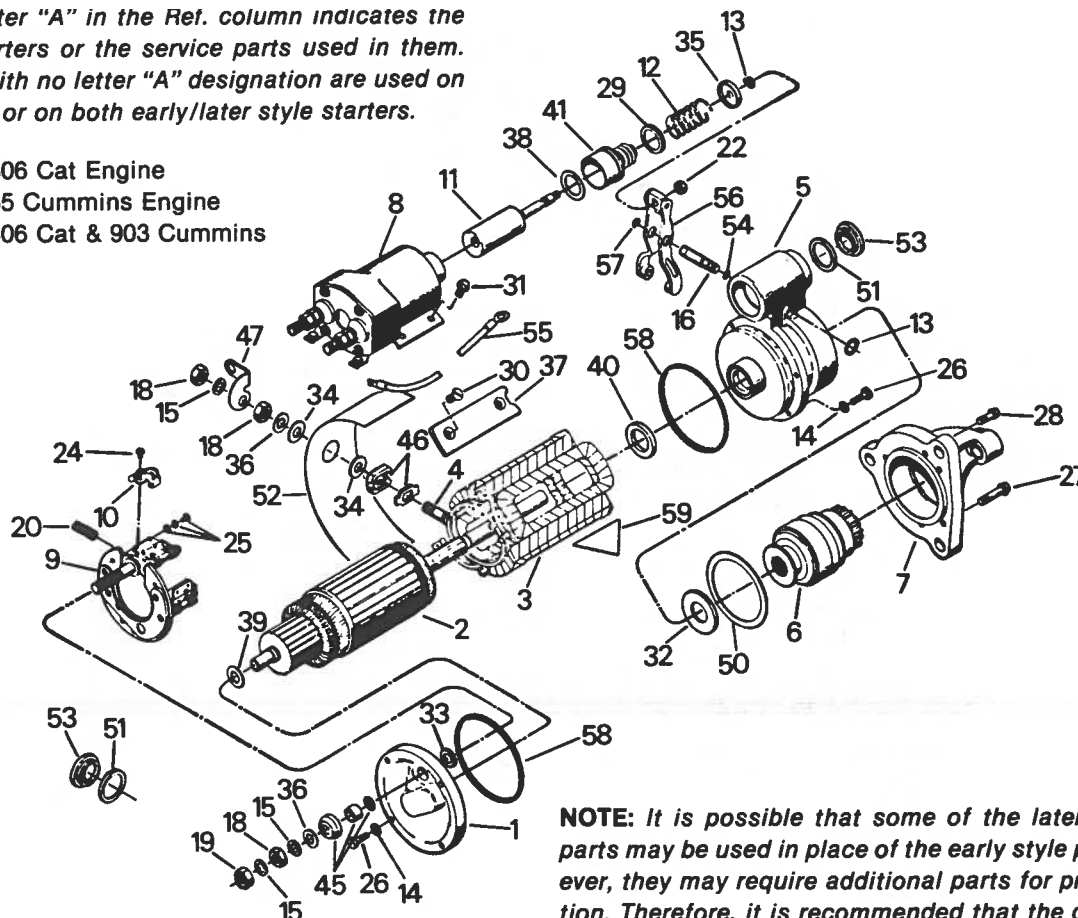
Starter Assembly

Ref.	Part No.	Description	Qty.
9	22-1122	Brush Plate Assembly (less Brushes)	1
9A	20-1327T91	Brush Plate Assembly (less Brushes)	
10	22-1123	Brush	8
10A	20-1328T1	Brush	
11	22-1124	Plunger Assembly	1
12	22-1062	Spring	1
13	22-1060	Snap Ring	2
14	22-1007	Lock Washer	9
15	22-1126	Lock Washer	3
16	22-1059	Shaft, Shift Lever	1
17	22-1058	Seal (not shown) (included with Ref. 5)	1
18	19-289	Jam Nut, 1/2 UNC	3
19	20-1329T1	Nut & Washer Assembly	1
20	20-1330T1	Spring (included with Ref. 9A)	4
21	22-1063	Wick, Felt (not shown) (included with Ref. 1)	1
21A	20-1366T1	Wick, Felt (not shown) (included with Ref. 1)	

Ref.	Part No.	Description	Qty.
22	22-1129	Nut	1
23	22-1063	Wick, Felt (not shown) (included with Ref. 5 & 7)	2
23A	20-1331T1	Wick, Felt (not shown) (included with Ref. 5 & 7)	
24	22-1130	Screw	8
24A	20-1332T1	Screw	
25	22-1131	Screw & Lock Washer	3
26	22-1132	Screw	9
27	22-1133	Screw	5
28	22-1134	Screw	1
29	22-1057	Retainer & Spring	1
30	22-1135	Screw	8
31	22-1136	Screw & Lock Washer	4
32	22-1137	Washer (included with Ref. 5)	1
33	22-1025	Washer	2
34	22-1026	Washer	2
35	22-1056	Spring Retainer	1
36	22-1139	Washer	2
37	22-1055	Pole Shoe	4
38	22-1140	Washer	1

NOTE: The letter "A" in the Ref. column indicates the later style starters or the service parts used in them. Those items with no letter "A" designation are used on the early style or on both early/late style starters.

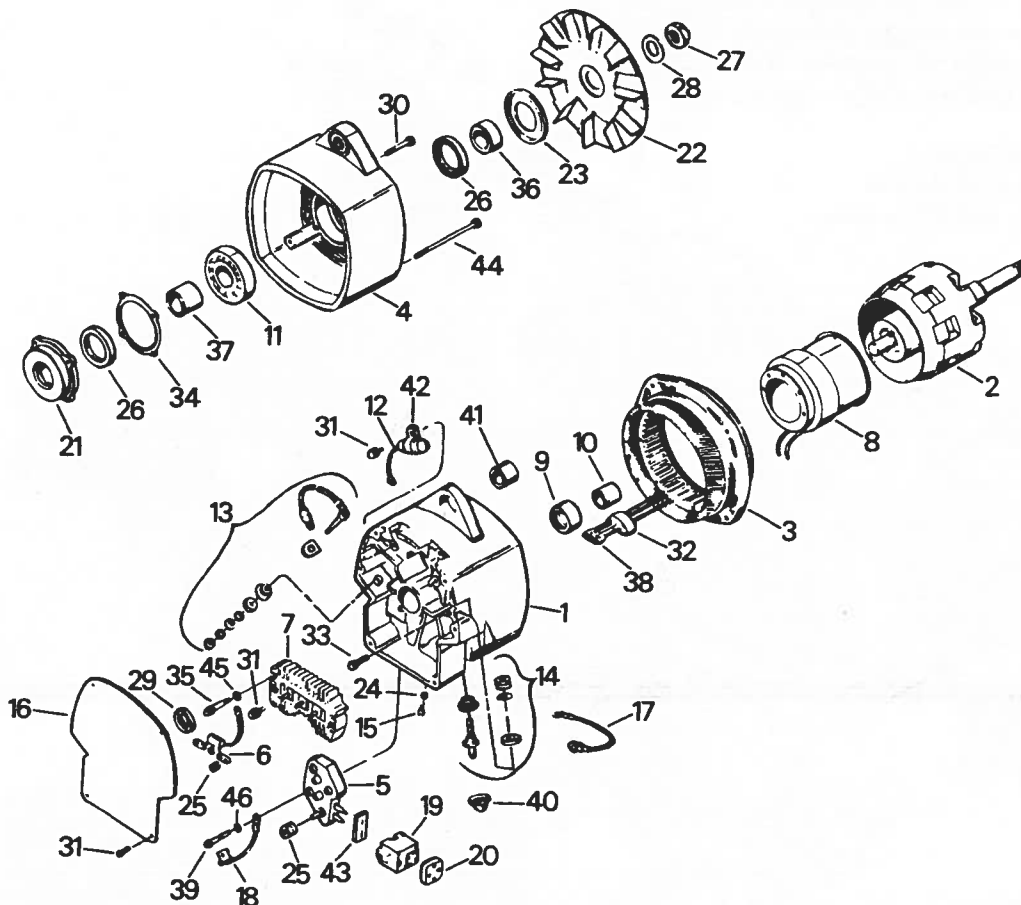
- *Used on 3306 Cat Engine
- **Used on 855 Cummins Engine
- ***Used on 3406 Cat & 903 Cummins Engines



Starter Assembly

Ref.	Part No.	Description	Qty.
39	22-1141	Washer	1
40	22-1142	Washer	1
41	22-1027	Boot, Plunger	1
42	20-1333T1	Bushing (not shown) (included with Ref. 1)	1
43	20-1334T1	Bushing (not shown) (included with Ref. 7)	1
44	20-1335T1	Bushing (not shown) (included with Ref. 5)	1
45	22-1030	Terminal Insulator Package	1
46	22-1031	Bushing Package	1
47	22-1032	Connector	1
48	20-1340T1	Plug (not shown) (included with Ref. 5)	1

Ref.	Part No.	Description	Qty.
49	20-1339T1	Plug (not shown) (included with Ref. 1, 5 & 6)	3
50	22-1036	Gasket	1
51	22-1037	Gasket	3
52	22-1040	Insulator	1
53	22-1045	Plug, Inspection	2
54	22-1044	O-Ring	1
54A	20-1338T1	O-Ring	1
55	22-1041	Lead	1
55A	20-1336T1	Lead	1
56	22-1042	Shift Lever Assembly	1
57	22-1043	O-Ring	1
57A	20-1337T1	O-Ring	1
58	01-1239	O-Ring	2
59	01-1238	Insulator (Early Style only)	1



Usage:

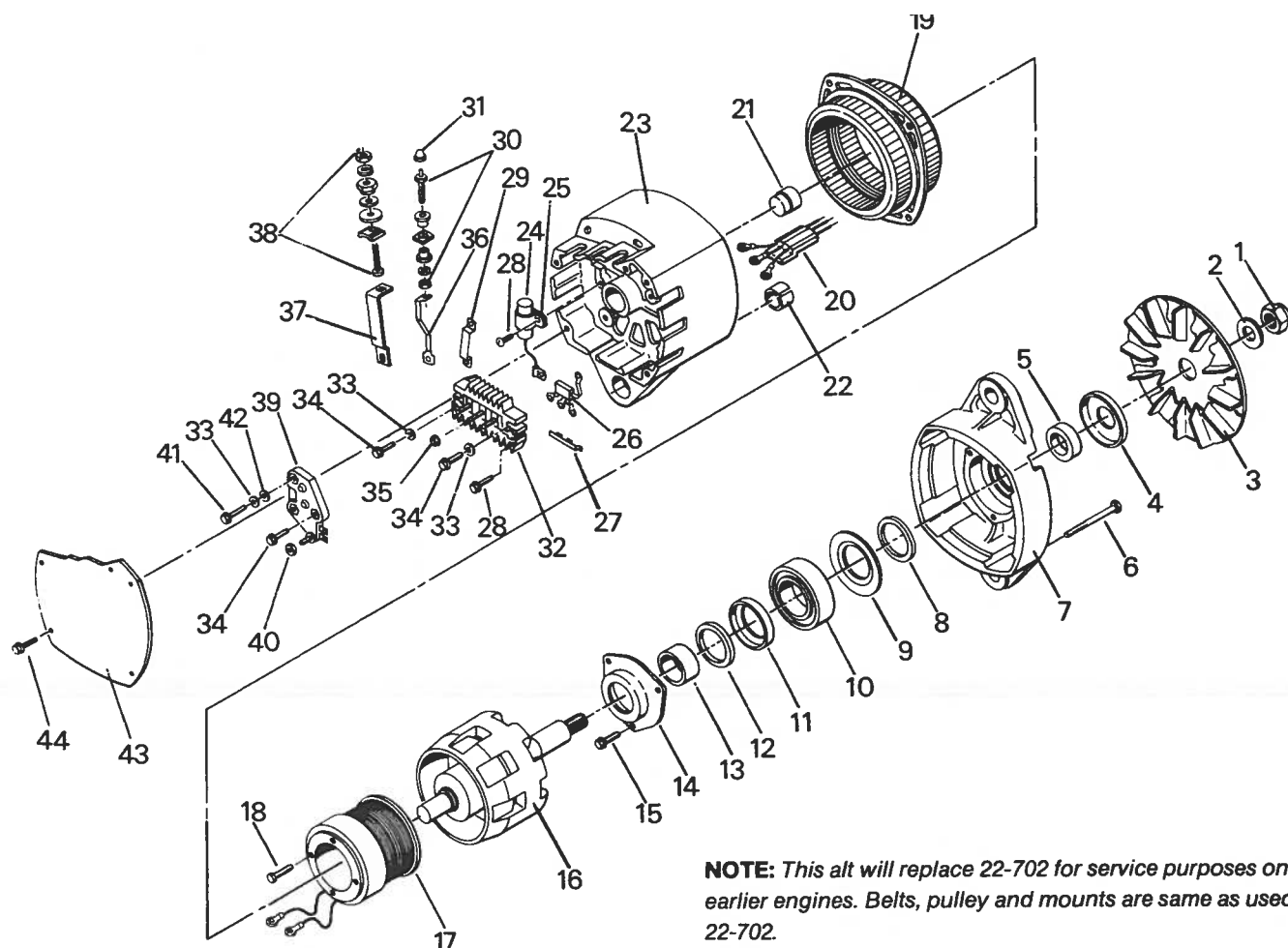
All except models w/Cat 3306 Engine after 10-1-82 (see Page 2-12A) or when alt on page 2-13 was used.

NOTE: For Pulley & Belt P/N see Engine & Attaching Parts (Pages 4-1 to 4-6).

Alternator Assembly

Ref.	Part No.	Description	Qty.
1-46	22-702	Alternator (Delco # 1117732)	1
1	22-1051	Rectifier Housing	1
2	22-1053	Rotor Assembly	1
3	22-1054	Starter Assembly	1
4	22-1061	Frame	1
5	22-1064	Regulator	1
6	22-1065	Diode	1
7	22-1093	Rectifier Bridge	1
	22-1019	Insulator	1
8	22-1094	Field Coil	1
9	22-1095	Bearing, Outer	1
10	22-1096	Bearing, Inner	1
11	22-1097	Bearing	1
12	22-1098	Capacitor	1
13	22-1099	Terminal Package	1
14	22-1100	Terminal Package	1
15	22-1101	Terminal Screw	1
16	22-1102	Cover Plate	1
17	22-1103	Lead	1
18	22-1104	Lead	1
19	22-1106	Connector Body	1
20	22-1105	Cap	1
21	22-1107	Retainer	1
22	22-1108	Fan	1

Ref.	Part No.	Description	Qty.
23	22-1023	Slinger	1
24	22-1007	Lock Washer, Ground Screw	1
25	22-1022	Nut & Washer	2
26	22-1021	Seal	2
27	22-1024	Nut, Rotor Shaft	1
28	22-1144	Washer	1
29	22-1020	Plug	1
30	22-1034	Screw	1
31	22-1038	Screw	7
32	22-1018	Grommet	1
33	22-1039	Screw	1
34	22-1017	Gasket	1
35	22-1049	Screw & Washer Assembly	1
36	22-1016	Collar, Outside	1
37	22-1015	Collar, Inside	1
38	22-1014	Clip	1
39	22-1050	Screw & Washer Assembly	1
40	22-1013	Cap	1
41	22-1012	Bushing	1
42	22-1011	Bracket, Capacitor	1
43	22-1010	Boot	1
44	22-1009	Bolt	1
45	22-1110	Washer	2
46	22-1008	Washer	1

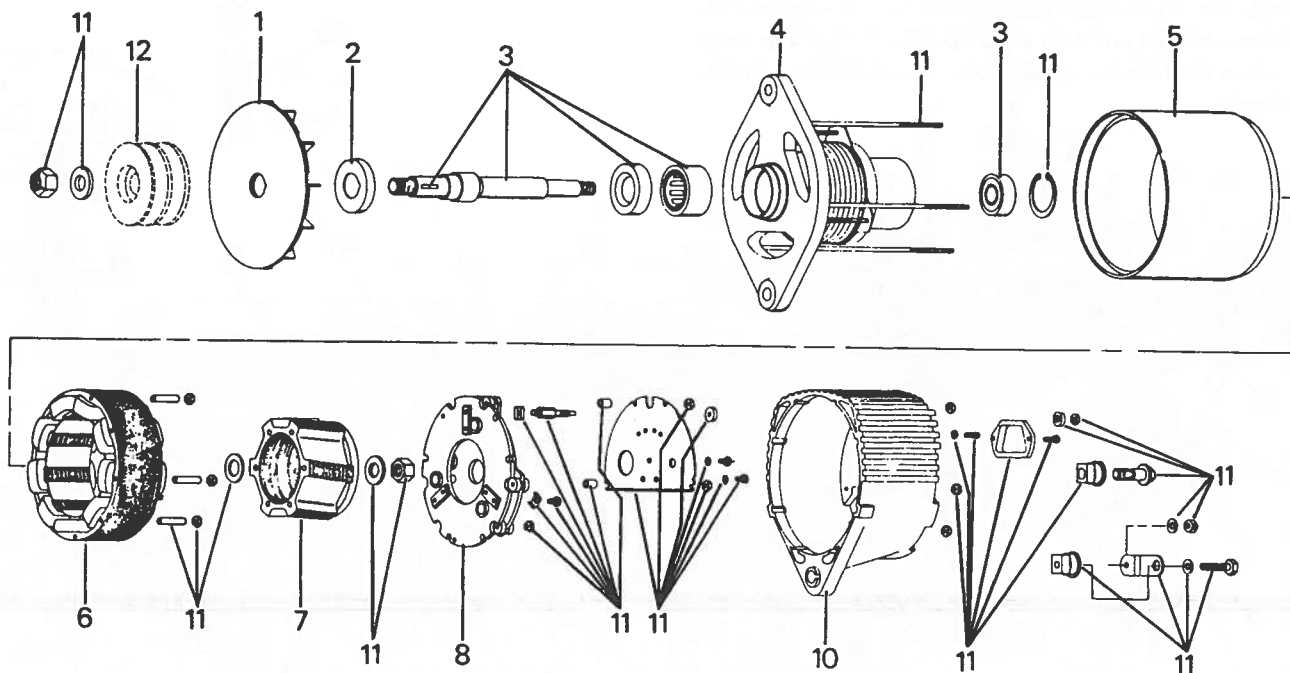


Alternator

3306 Engines after 10-1 82 (ASN 2506)

Ref.	Part No.	Description	Qty.
	20-1610T91	Alternator (Delco 1117160)	
1	22-1024	Nut, Shaft	1
2	22-1144	Washer, Shaft	1
3	22-1108	Fan	1
4	20-1680T1	Shield, Bearing	1
5	20-1681T1	Collar, Outside	1
6	20-1705T1	Bolt	1
7	20-1682T1	Frame	1
8	20-1683T1	Washer, Felt	1
9	20-1684T1	Retainer Plate	1
10	20-1685T1	Bearing	1
11	20-1686T1	Cup, Retainer	1
12	20-1687T1	Washer, Felt	1
13	20-1688T1	Collar, Inside	1
14	20-1689T1	Retainer Plate	1
15	20-1707T1	Screw	3
16	20-1690T1	Rotor	1
17	20-1691T1	Field Coil	1
18	22-1039	Screw	4
19	20-1692T1	Stator	1
20	20-1693T1	Grommet	1
21	20-1694T1	Bearing	1
22	20-1695T1	Bushing	1

Ref.	Part No.	Description	Qty.
23	NSS	Housing	1
24	20-1696T1	Capacitor	1
25	20-1697T1	Bracket, Capacitor	1
26	20-1698T1	Diode, Trio	1
27	22-1019	Insulator	1
28	22-1038	Screw	2
29	20-1699T1	Connector	1
30	20-1700T1	Terminal Package	1
31	22-1013	Cap, Relay Terminal	1
32	02-1317	Rectifier Bridge Assy	1
33	02-1323	Washer, Insulated	4
34	20-1708T1	Screw	3
35	20-1709T1	Nut, Terminal Stud	3
36	20-1701T1	Connector	1
37	20-1702T1	Connector, Output	1
38	20-1703T1	Terminal Package	1
39	20-1704T1	Regulator	1
40	22-1022	Nut	1
41	22-1050	Screw	2
42	22-1003	Washer	2
43	20-1705T1	Cover	1
44	20-1710T1	Screw	5



NOTE: This Alternator was used on a limited number of Series III ST models as an approved alternate source during late 1977 and early 1978.

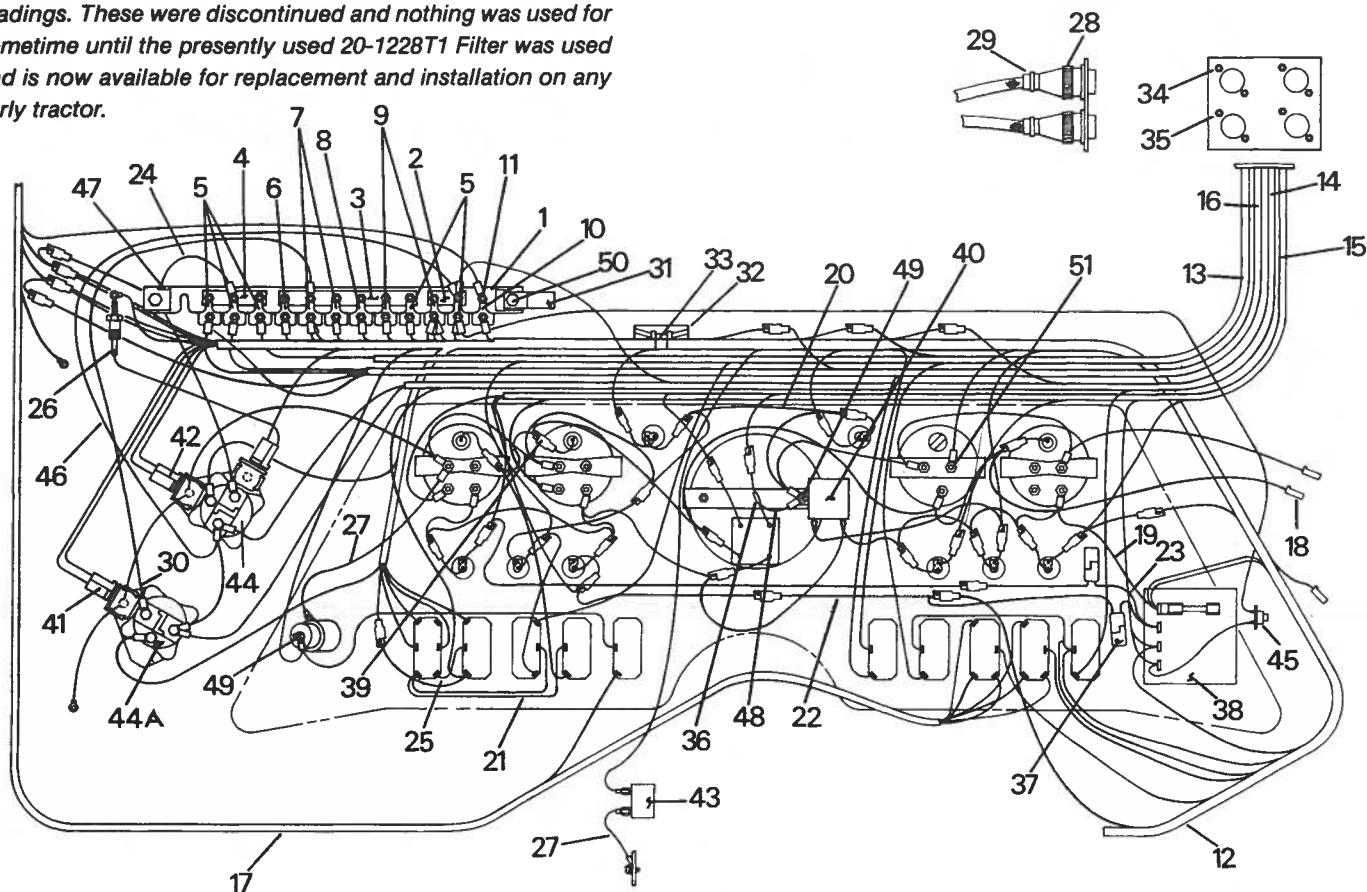
Alternator Assembly

Ref.	Part No.	Description	Qty.
1-12	01-7626	Alternator, Niehoff N1002	1
1	02-1984	Fan Assembly	1
2	02-1985	Bearing Cup	1
3	02-1986	Shaft Assembly	1
4	02-1987	Forging Assembly	1
5	02-1988	Shell	1
6	02-1989	Starter Assembly	1
7	02-1990	Rotor Assembly	1
8	02-1991	Heat Sink Assembly	1

Ref.	Part No.	Description	Qty.
9	02-1992	Regulator Assembly	1
10	02-1993	End Housing Assembly	1
11	02-1994	Hardware Package	1
12	22-741	Pulley (855 Cummins)	1
	02-1980	Pulley (3306 Cat)	1
	22-819	Pulley (903 Cummins)	1
	02-1979	Pulley (3406 Cat)	1

NOTE: On some early Series III ST models, a capacitor assembly (22-1076) and wire assembly (22-1075) were connected to the tachometer to prevent erratic tachometer readings. These were discontinued and nothing was used for sometime until the presently used 20-1228T1 Filter was used and is now available for replacement and installation on any early tractor.

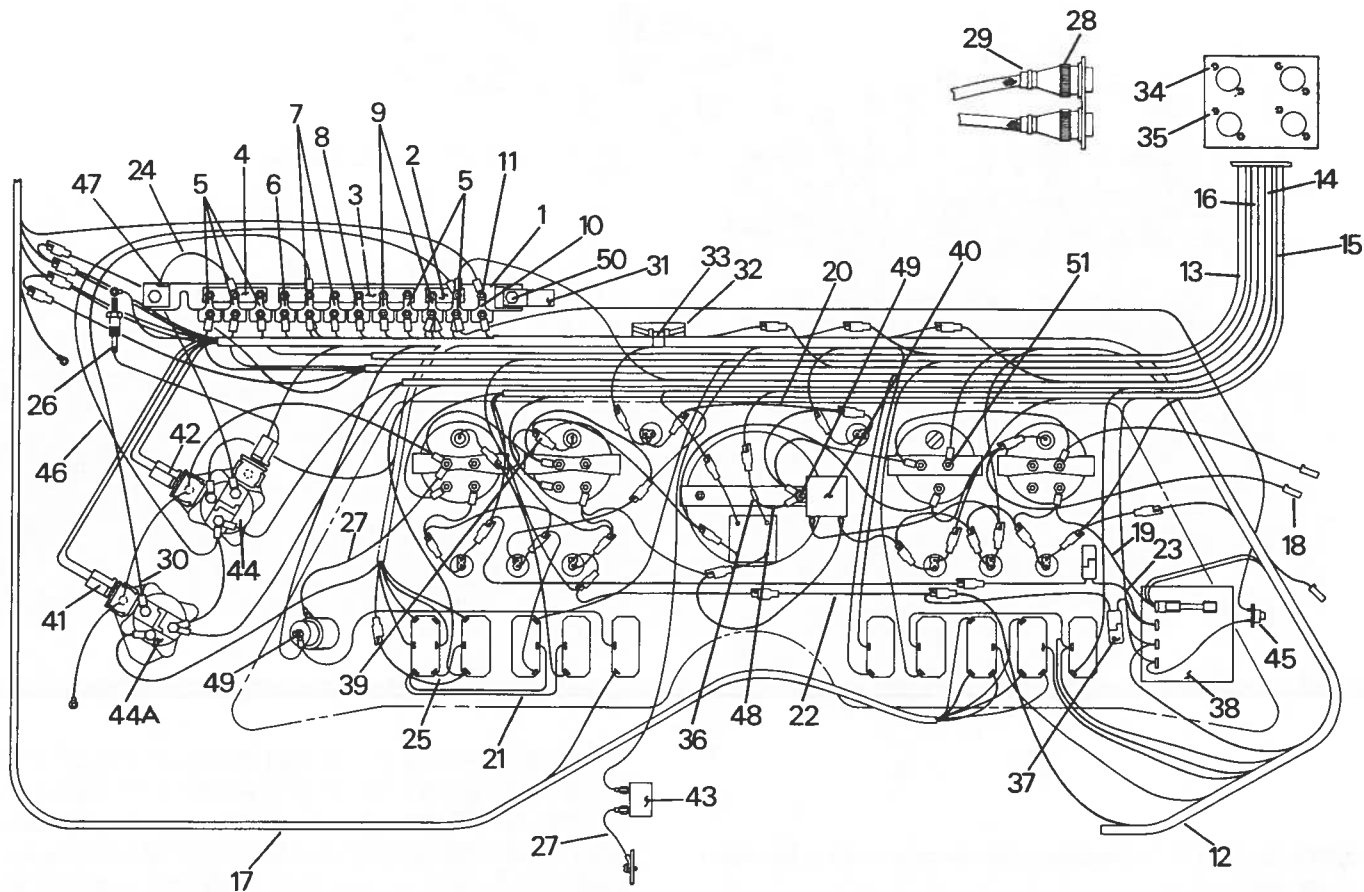
Early Style (Bulkhead Connectors)



Dash Electrical - First Bulkhead Style (D)

Ref.	Part No.	Description	Qty.
1-11	22-678	Breaker Assembly	1
1	22-674	Bracket, 13 Hole	1
2	22-677	Buss Bar, 2 Hole	1
3	22-675	Buss Bar, 6 Hole	1
4	22-676	Buss Bar, 3 Hole	1
5	22-671	Breaker, 15 Amp	5
6	22-670	Breaker, 10 Amp	1
7	22-669	Breaker, 6 Amp	2
8	22-673	Breaker, 30 Amp	1
9	22-672	Breaker, 20 Amp	2
10	22-809	Breaker, 5 Amp	1
11	19-481	Nut, #10 NC	AR
12	22-763	Wire Harness, Instrument Harness	1
13	22-760	Wire Harness, Front Frame (incl 28 & 29)	1
14	22-758	Wire Harness, Engine Side 1 (incl 28 & 29)	1
15	22-759	Wire Harness, Engine Side 2 (incl 28 & 29)	1
16	22-761	Wire Harness, Rear Frame (incl 28 & 29)	1
17	22-762	Wire Harness, Cab Console	1
18	22-804	Wire Assy, Dash Lights	1

Ref.	Part No.	Description	Qty.
19	22-806	Wire Assy, Emergency Shut-Off	1
20	22-1004	Wire Assy, Dash Gnd	1
21	22-799	Wire Assy, Dimmer Switch	1
22	22-829	Wire Assy, Ignition to Murphy Relay (incl 37)	1
23	22-828	Wire Assy, Oil Pressure Light (incl 37)	1
24	22-797	Wire Assy, Circuit Breaker to Solenoid	1
25	22-795	Wire Assy, Master to F/R	1
26	22-769	Rectifier Assy	1
27	22-802	Wire Assy, Gnd	2
28	22-780	Plug	4
	01-1632	Male Terminal (14-16 ga.)	AR
	01-4137	Male Terminal (8-10 ga.)	AR
29	22-781	Clamp, Plug Connector	4
30	22-820	Wire Assy, Circuit Breaker to Solenoid	1
31	22-646	Clamp	1
32	22-823	Mount, Cable Tie	8
33	22-824	Cable Tie	8
34	19-273	Machine Screw, #5 NC x 1/2	8
35	19-150	Nut, #5 NC	8

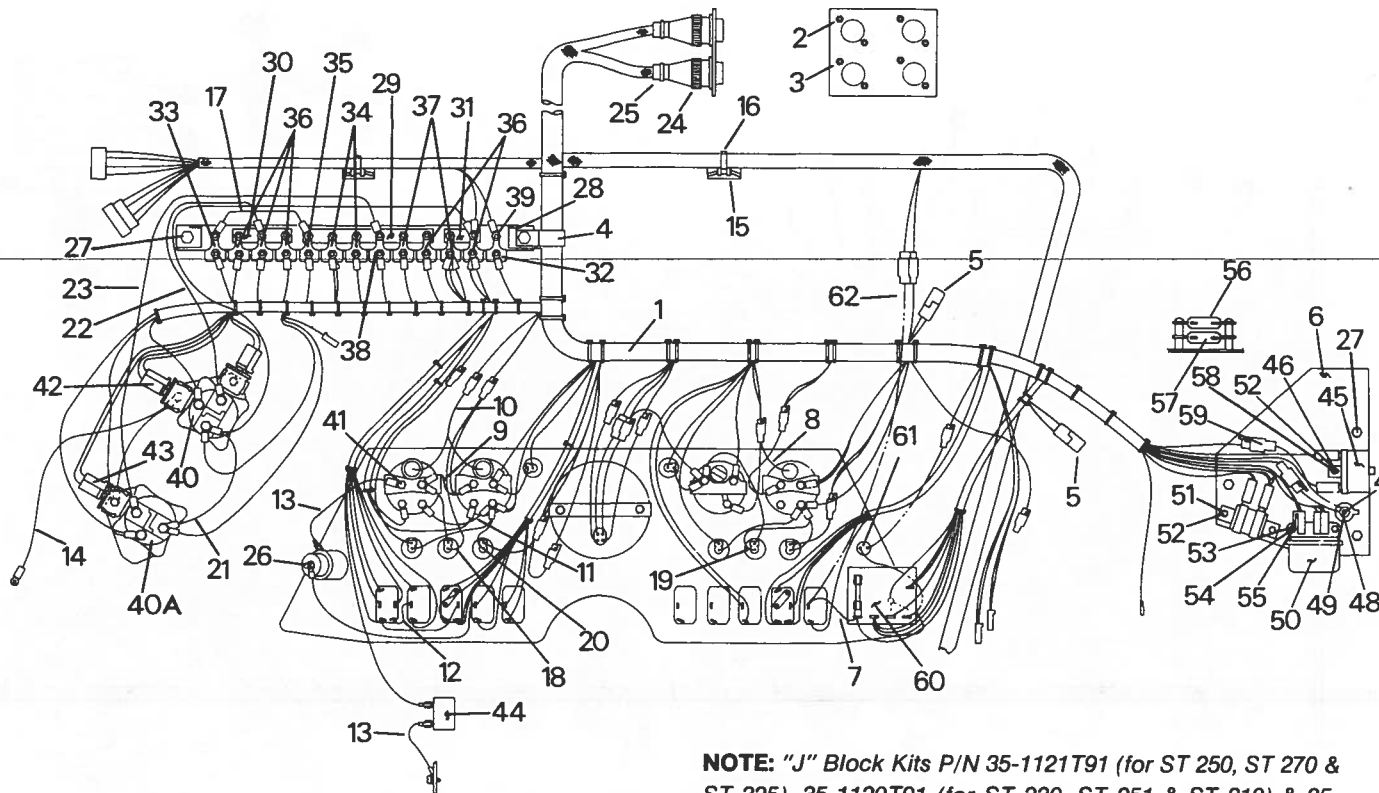


NOTE: Ref. 44A is not original equipment and will require minor mounting modifications. (Ref. 44 was originally used in this location.)

Dash Electrical - First Bulkhead Style (D)

Ref.	Part No.	Description	Qty.
36	22-217	Quick Splice	1
37	22-738	Diode	2
38	29-027	Switch, Safety	1
39	22-1001	Wire Assy, Gauge Lights	3
40	22-690	Buzzer	1
41	22-108	Flasher	3
42	22-112	Bracket, Flasher	3
43	22-800	Switch, Park Brake (mounting hardware listed below)	1
	19-708	Washer, 5/32	8
	19-1012	Machine Screw, #6 NC x 1-3/4	2
	19-1013	Nut, #6 NC	6

Ref.	Part No.	Description	Qty.
44	22-792	Solenoid	1
44A	20-1411T1	Solenoid	1
45	01-2386	Switch, Shut off (3406 Cat only)	1
46	01-2665	Wire Assy, Circuit Breaker to Solenoid	1
47	22-816	Bracket, Rectifier	1
48	01-3841	Wire Assy, Tach Grd	1
49	19-282	Lock Nut, #8 NC	2
50	19-417	Capscrew, 1/4 NC x 1/2	6
51	19-308	Nut, #10 NF	3



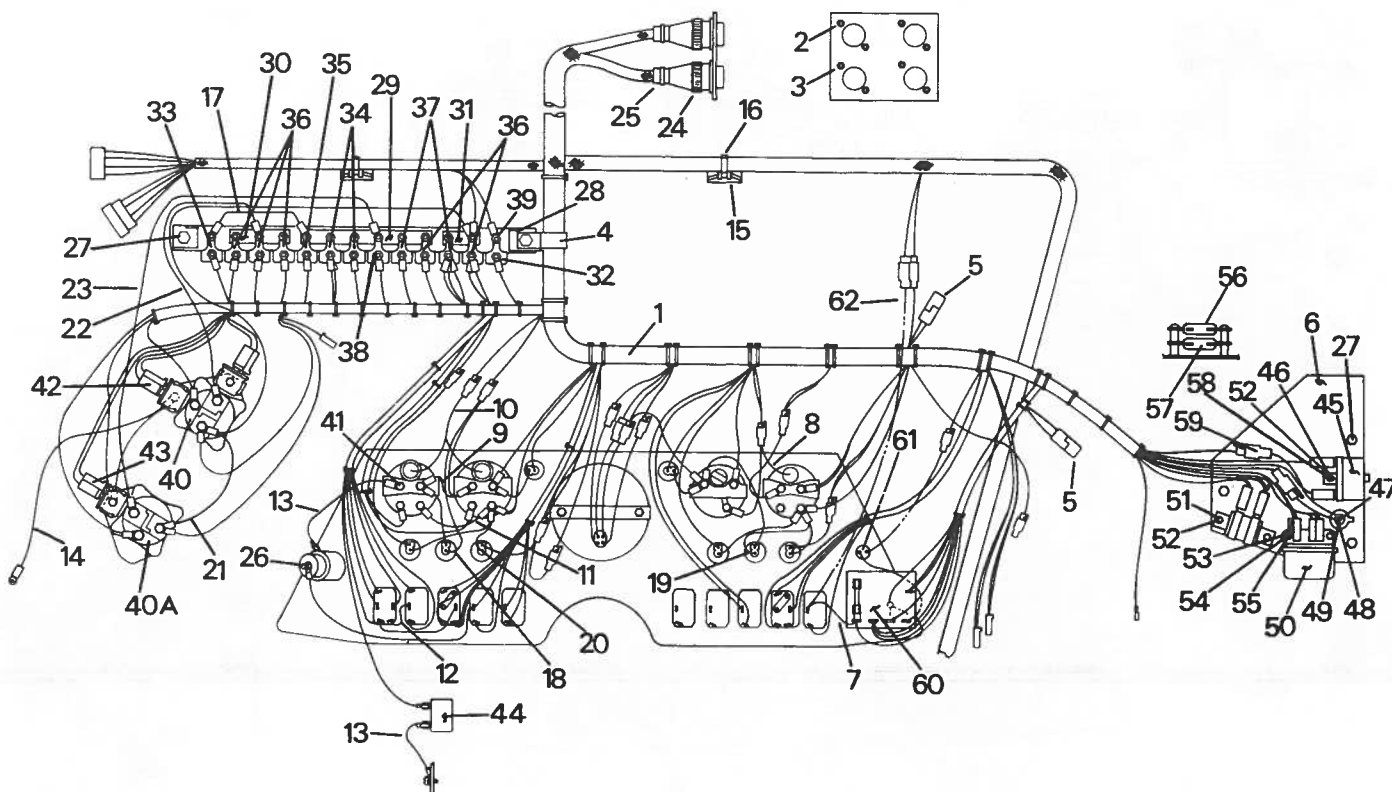
NOTE: "J" Block Kits P/N 35-1121T91 (for ST 250, ST 270 & ST 325), 35-1120T91 (for ST 220, ST 251 & ST 310) & 35-1119T91 (for ST 320) can be ordered to update this Dash Electrical arrangement to that shown on the following page as pertains to items 21-27. Kits 35-1119, 35-1120 & 35-1121 are OK to use up.

NOTE: 20-1228T1 Tachometer Filter can be ordered to prevent erratic readings.

Dash Electrical Second Bulkhead Style (D)

Ref.	Part No.	Description	Qty.
1	01-3920	Harness, Cab & Instrument (D)	1
2	19-273	Screw, #5 NC x 1/2	8
3	19-150	Nut, #5 NC	8
4	22-646	Clamp	1
5	22-738	Diode	2
6	01-3864	Bracket, Component mtg	1
7	01-3936	Wire Assy, Murphy Relay to Starter Switch (ST 250 & ST 270 only)	1
8	01-3926	Wire & Socket Assy Voltmeter & Hourmeter	1
9	01-3934	Wire Assy, Gauge Gnd to Gauge Gnd	2
10	01-3925	Wire & Socket Assy, Water Temp & Oil Press.	1
11	01-3933	Wire Assy, Gauge to Gauge Ign	1
12	22-795	Wire Assy, Master to F/R	1
13	22-802	Wire Assy, Gnd	2
14	01-3927	Wire Assy, Solenoid Gnd	1
15	22-823	Mount, Cable Tie	2
16	22-824	Cable Tie	2
17	01-3932	Wire Assy, Circuit Breaker	1
18	01-3928	Wire & Socket Assy, Hi Beam	1

Ref.	Part No.	Description	Qty.
19	01-3929	Wire & Socket Assy, Trans Temp & Park Brake	1
20	01-3930	Wire & Socket Assy, Water Temp & Oil Press	1
21	01-2665	Wire Assy, Circuit Breaker to Solenoid	1
22	22-797	Wire Assy, Circuit Breaker to Solenoid	1
23	22-820	Wire Assy, Circuit Breaker to Solenoid	1
24	22-780	Plug	4
	01-1632	Male Terminal (14-16 ga.)	AR
	01-4137	Male Terminal (8-10 ga.)	AR
25	22-781	Clamp, Plug Connector	4
26	19-282	Lock Nut, #8 NC	1
27	19-417	Capscrew, 1/4 x 1/2 UNC	9
28-39	22-678	Breaker Assy	1
28	22-674	Bracket, 13 Hole	1
29	22-675	Buss Bar, 6 Hole	1
30	22-676	Buss Bar, 3 Hole	1
31	22-677	Buss Bar, 2 Hole	1
32	22-809	Breaker, 5 Amp	1
33	01-3856	Breaker, 5 Amp (not in assy)	1
34	22-669	Breaker, 6 Amp	2

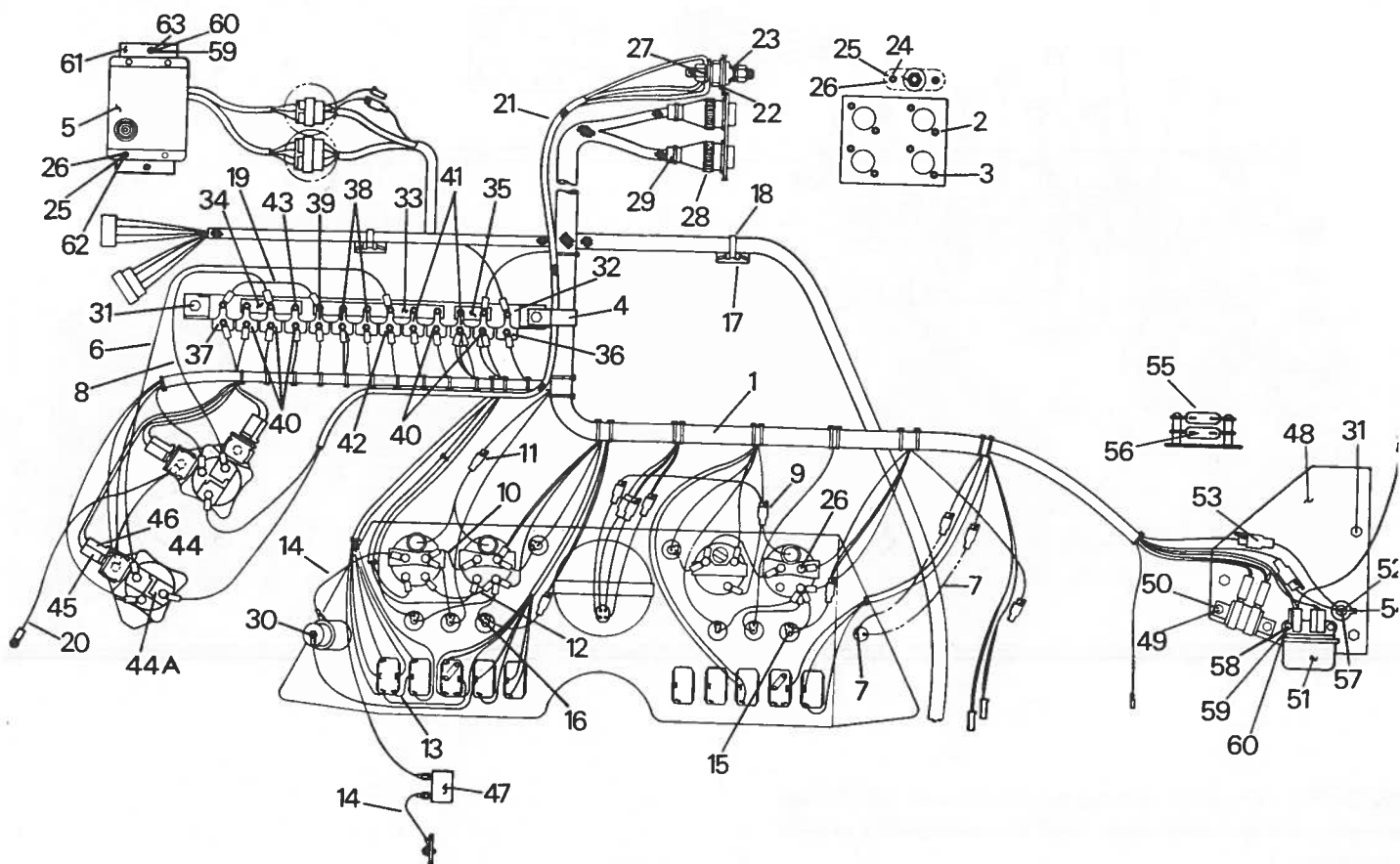


NOTE: Ref. 40A is not original equipment and will require minor mounting modifications. (Ref. 40 was originally used in this location.)

Dash Electrical Second Bulkhead Style (D)

Ref.	Part No.	Description	Qty.
35	22-670	Breaker, 10 Amp	1
36	22-671	Breaker, 15 Amp	5
37	22-672	Breaker, 20 Amp	2
38	22-673	Breaker, 30 Amp	1
39	19-481	Nut, #10 NC	AR
40	22-792	Solenoid	1
40A	20-1411T1	Solenoid	1
41	19-308	Nut, #10 NF	6
42	22-108	Flasher	3
43	22-112	Bracket, Flasher	3
44	22-800	Switch, Park brake (mt hdwr listed below)	1
	19-708	Washer, 5/32	8
	19-1012	Machine Screw, #6 NC x 1-3/4	2
	19-1013	Nut, #6 UNC	6
45-59	01-3865	Component Assy	1
45	22-690	Buzzer	1
46	19-5390	Machine Screw, #8 NC x 1/2	1

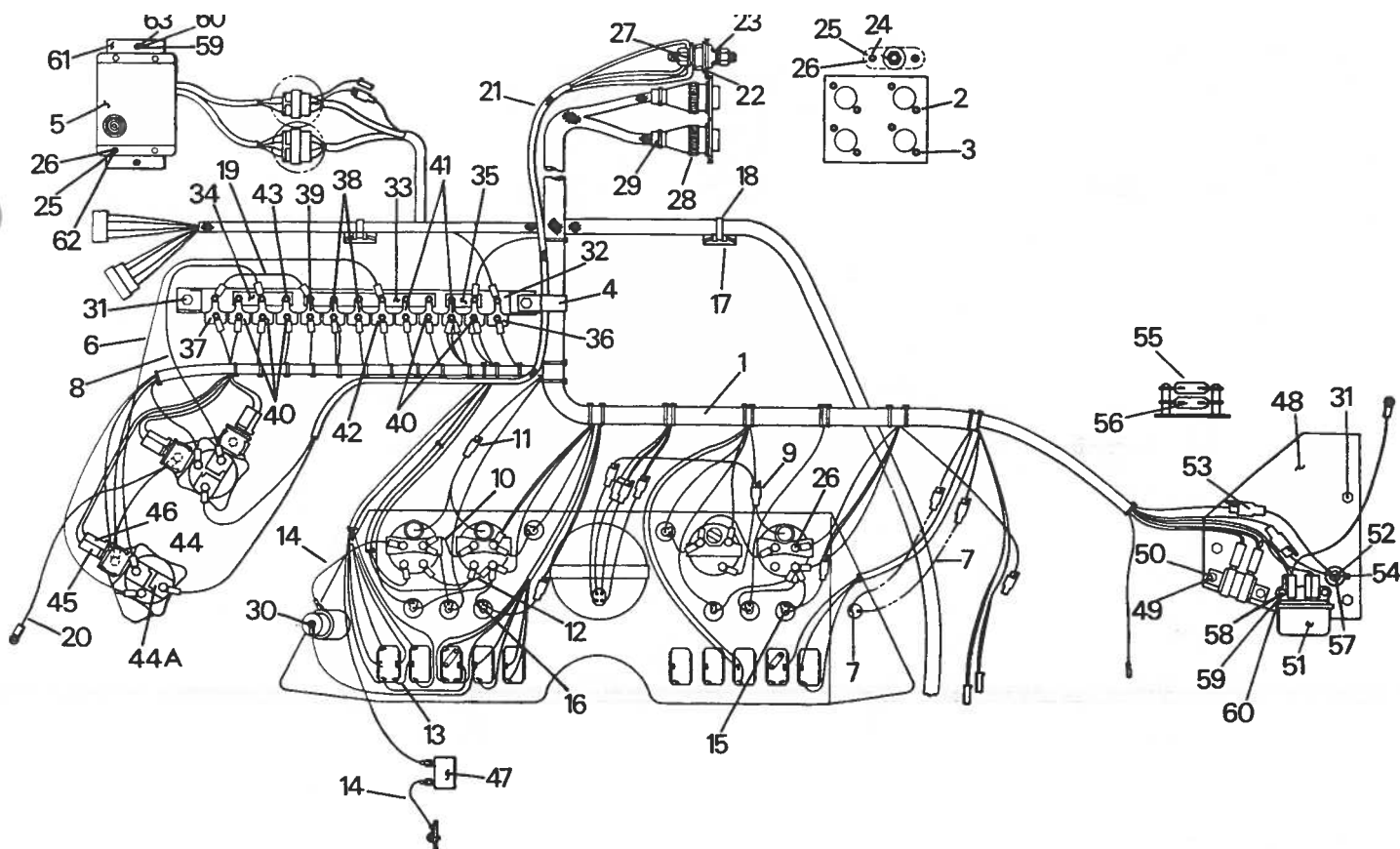
Ref.	Part No.	Description	Qty.
47	01-3862	Rectifier Assy	1
48	01-3859	Insulator, Rectifier	1
49	19-5379	Nut	1
50	01-3861	Relay	1
51	19-3041	Screw, #8 NC x 1-1/2	2
52	19-1015	Nut, #8 NC	3
53	19-5391	Screw, 1/4 NC x 1/2	2
54	19-115	Lock Washer, 1/4	2
55	19-076	Nut, 1/4 NC	2
56	01-3858	Resistor, 5 Ohm	1
57	01-3857	Resistor, 2 Ohm	1
58	19-5378	Washer, #8	1
59	01-3860	Wire Assy, Rectifier	1
60	29-027	Switch, Safety	1
61	01-3863	Switch, Shut Off (3406 Cat Engine)	1
62	01-3935	Wire Assy, Harness to Start Switch (ST 220, ST 251 ST 310, ST 320 & ST 325)	1



Dash Electrical Third Bulkhead Style (D)

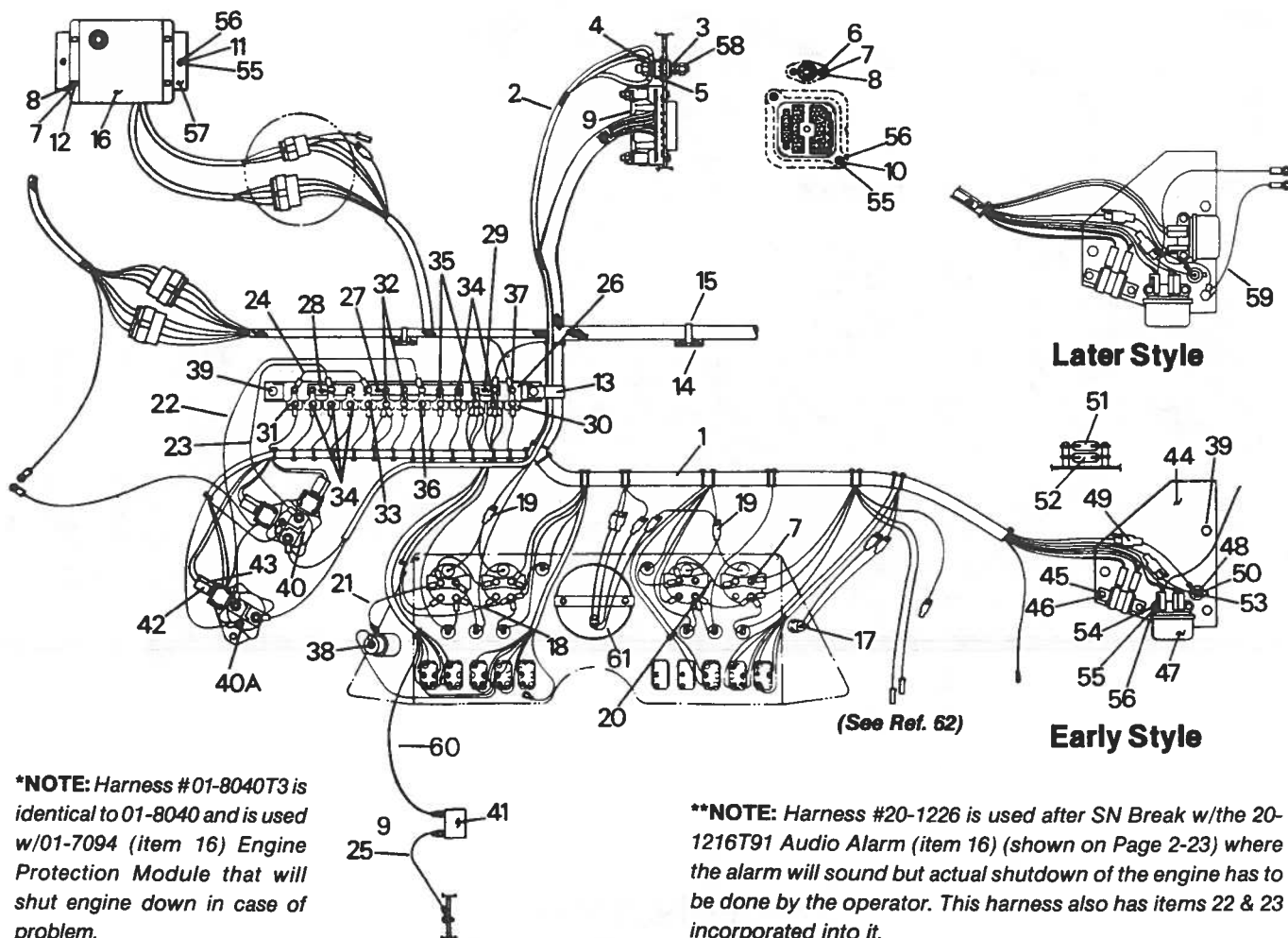
Ref.	Part No.	Description	Qty.
1	01-7092	Harness, Cab & Instrument (D)	1
2	19-273	Screw, #5 NC x 1/2	8
3	19-150	Nut, #5 NC	8
4	31-2160	Clamp (22-646) (E)	1
5	01-7094	Module, Engine Protection (D)	1
6	22-820	Wire Assy, Circuit Breaker to Solenoid	1
7	01-7128	Switch, Shut Off (3406 Cat)	1
8	22-797	Wire Assy, Circuit Breaker to Solenoid	1
9	01-3926	Wire & Socket Assy Voltmeter & Hourmeter	1
10	01-3934	Wire Assy, Gauge Gnd to Gauge Gnd	2
11	01-3925	Wire & socket Assy, Water Temp & Oil Press.	1
12	01-3933	Wire Assy, Gauge to Gauge Ignition	1
13	22-795	Wire Assy Master to F/R	1
14	22-802	Wire Assy, Gnd	2
15	01-6077	Wire & Socket Assy, Trans. Temp	1

Ref.	Part No.	Description	Qty.
16	01-7129	Wire & socket Assy, Water Temp	1
17	22-823	Mount, Cable Tie	2
18	22-824	Cable Tie	2
19	01-3932	Wire Assy, Circuit Breaker	1
20	01-3927	Wire Assy, Solenoid gnd	1
21	01-7093	Harness, Dash to "J" Block	1
22	01-7096	Gasket, "J" Block	1
23	20-1150T1	"J" Block (Repl 01-6884) (B)	1
24	436751	Screw, #10 NF x 5/8	2
25	19-297	Lock Washer, #10	6
26	19-308	Nut, #10 NF	12
27	19-5577	Lock Washer, 3/8 Brass	2
28	22-780	Plug	4
	01-1632	Male Terminal (14-16 ga.)	AR
	01-4137	Male Terminal (8-10 ga.)	AR
29	22-781	Clamp, Plug Connector	4
30	19-282	Lock Nut, #8 NC	1
31	19-417	Capscrew, 1/4 NC x 1/2	9
32-43	22-678	Breaker Assembly	1
32	22-674	Bracket, 13 Hole	1



Dash Electrical Third Bulkhead Style (D)

Ref.	Part No.	Description	Qty.	Ref.	Part No.	Description	Qty.
33	22-675	Buss Bar, 6 Hole	1	48-60	01-7132	Component Assy	1
34	22-676	Buss Bar, 3 Hole	1	48	01-3864	Bracket, Component mtg	1
35	22-677	Buss Bar, 2 Hole	1	49	19-3041	Screw, #8 NC x 1/2	2
36	22-809	Breaker, 5 Amp	1	50	19-1015	Nut, #8 NC	2
37	01-3856	Breaker, 5 Amp (not is assy)	1	51	01-3861	Relay	1
38	22-669	Breaker, 6 Amp	2	52	01-3859	Insulator, Rectifier	1
39	22-670	Breaker, 10 Amp	1	53	01-3860	Wire Assy, Rectifier	1
40	22-671	Breaker, 15 Amp	5	54	19-5379	Nut	1
41	22-672	Breaker, 20 Amp	2	55	01-3858	Resistor, 5 Ohm	1
42	22-673	Breaker, 30 Amp	1	56	01-3857	Resistor, 2 Ohm	1
43	19-481	Nut, #10 NC	AR	57	01-3862	Rectifier Assy	1
44	22-792	Solenoid	1	58	19-5391	Screw, 1/4 NC x 1/2	2
44A	20-1411T1	Solenoid, (side mt, needs 19-481 Nut, 19-1015 Nut, 19-116 Washer & 19-088 Nut to mt it)	1	59	19-076	Nut, 1/4 NC	4
45	22-108	Flasher	3	60	19-115	Lock Washer, 1/4	4
46	22-112	Bracket, Flasher	3	61	01-7095	Bracket	1
47	22-800	Switch Park Brake (mtg hdwe listed below)	1	62	19-307	Screw, #10 NF x 1/2	4
	19-708	Washer	8	63	19-001	Capscrew, 1/4 NC x 3/4	2
	19-1012	Screw	2				
	19-1013	Nut	6				

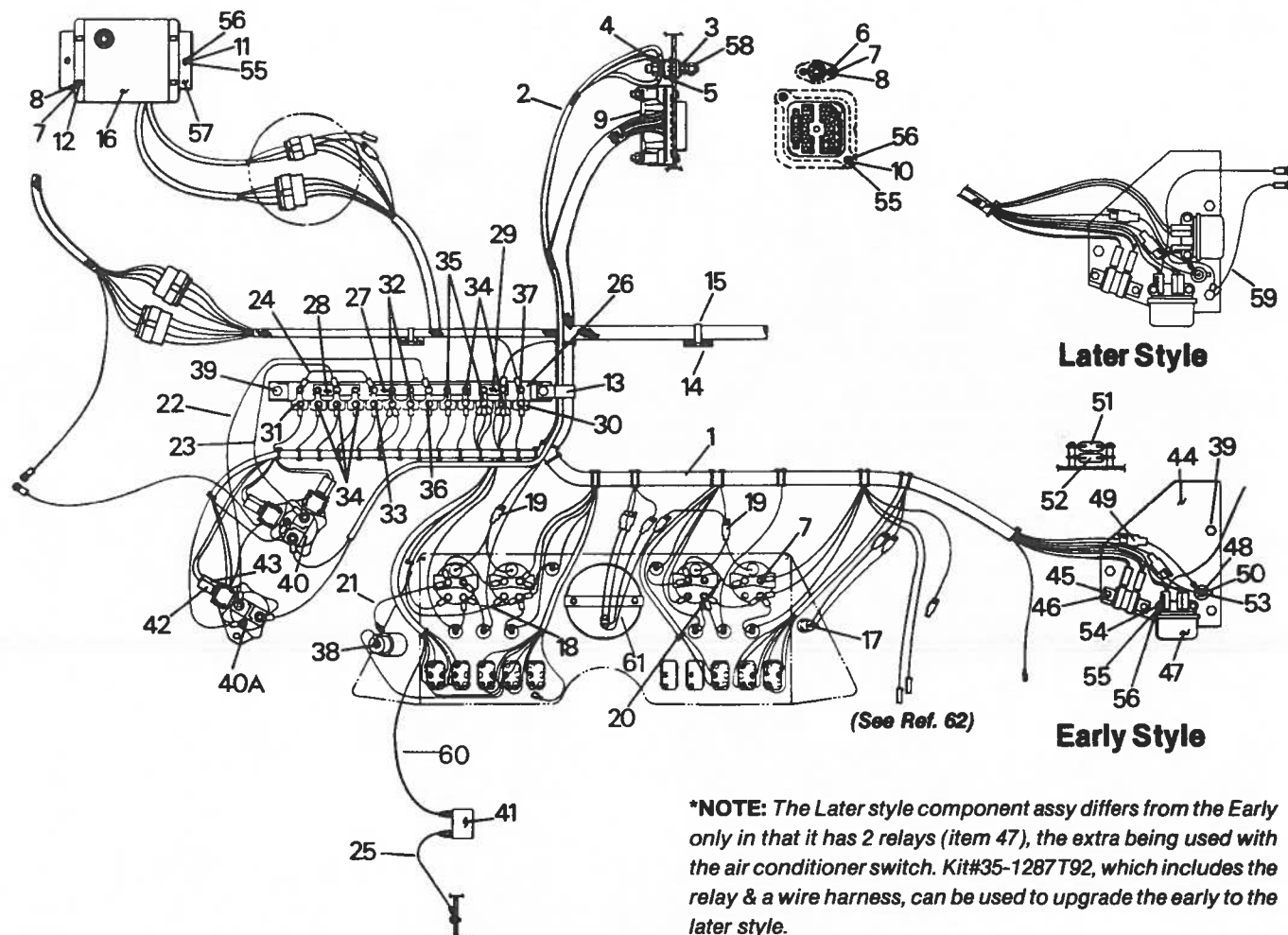


Dash Electrical

Packard Connectors (D)

Ref.	Part No.	Description	Qty.
1	01-8040T3	Harness, Cab* (D)	1
	20-1226T1	Harness, Cab** (D)	1
2	01-7093	Harness, Dash to J. Block	1
3	20-1150T1	J. Block	1
4	19-5577	Lockwasher, 3/8 Brass	2
5	01-7096	Gasket, J. Block	1
6	436751	Screw, #10 NF x 5/8	2
7	19-308	Nut, #10 NF	14
8	19-297	Lockwasher, #10	6
9	01-8578	Cover, Harness Connector	1
10	19-720	Capscrew, 1/4 NC x 2-1/2	2
11	19-001	Capscrew, 1/4 NC x 3/4	2
12	19-307	Screw #10 NF x 1/2	4
13	31-2160	Clamp	1
14	22-823	Mt. Cable Tie	2
15	22-824	Cable Tie	2
16	01-7094	Module, Engine Protection (D) (shown above)	1
	20-1216T92	Module, Audio Alarm (D) (see Page 2-23)	1
17	01-7128	Switch (w/3406 Cat engine)	1
	02-4553T1	Decal (use w/01-7128)	1
18	01-3933	Wire Assy, Ga. To Ga. Ign.	2

Ref.	Part No.	Description	Qty.
19	01-3925	Wire & Socket Assy	2
20	01-3934	Wire Assy, Ga. Gnd to Ga. Gnd	2
21	22-802	Wire Assy, Gnd	1
22	22-820	Wire Assy,**Circuit Breaker To Solenoid	1
23	22-797	Wire Assy,**Circuit Breaker To Solenoid	1
24	01-3932	Wire Assy, Circuit Breaker	1
25	22-802	Wire Assy, Gnd (use only w/22-800 switch BSN 2000)	1
26-37	22-678	Breaker Assy	1
26	22-674	Bracket, 13 Hole	1
27	22-675	Buss Bar, 6 Hole	1
28	22-676	Buss Bar, 3 Hole	1
29	22-677	Buss Bar, 2 Hole	1
30	22-809	Breaker, 5 AMP	1
31	01-3856	Breaker, 5 AMP (not in assy)	1
32	22-669	Breaker, 6 AMP	2
33	22-670	Breaker, 10 AMP	1
34	22-671	Breaker, 15 AMP	5
35	22-672	Breaker, 20 AMP	2
36	22-673	Breaker, 30 AMP	1
37	19-481	Nut, #10 NC	AR
38	19-282	Lock Nut, #8 NC	1

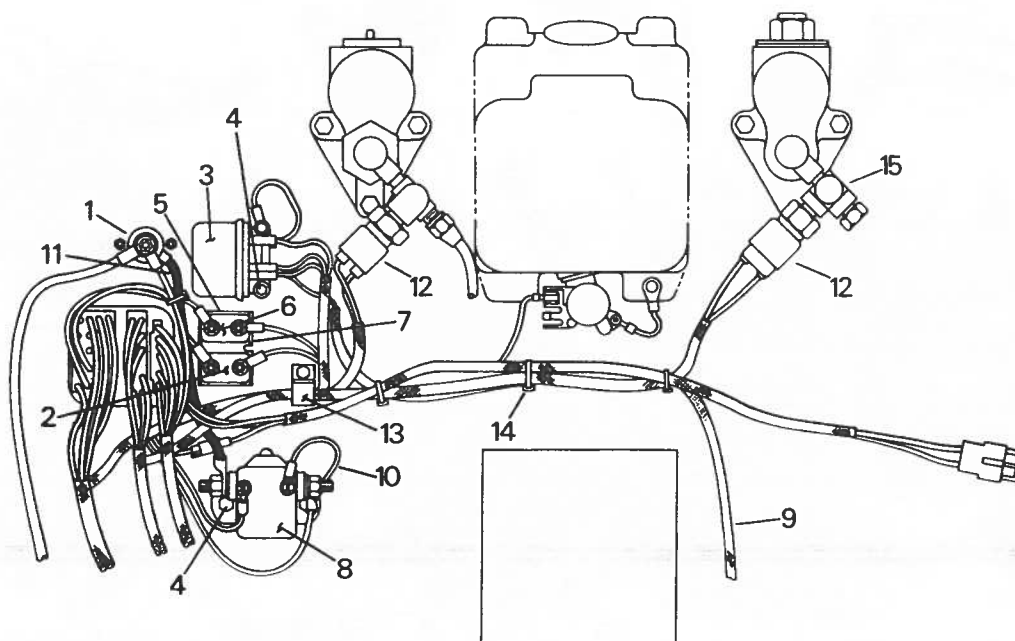


Dash Electrical

Packard Connectors (D)

Ref.	Part No.	Description	Qty.
39	19-417	Capscrew, 1/4 NC x 1/2	9
40	22-792	Solenoid	1
40A	20-1411T1	Solenoid	1
41	20-1463T1	Switch, Park Brake (02-1463) (A) (use ASN 2000 w/Foot Actuated Park Brake)	1
	22-800	Switch, Park Brake (use BSN 2000 w/Hand actuated Brake (mt hdwe listed below)	
	19-708	Washer, 5/32	8
	19-1012	Screw, #6 NC x 1-3/4	2
	19-1013	Nut, #6 NC	6
42	22-108	Flasher	3
43	22-112	Bracket, Flasher	3
44-56	01-7132	Component Assy* (Early)	1
	02-3721T91	Component Assy* (Later)	
44	01-3864T1	Bracket, Component Mt.	1

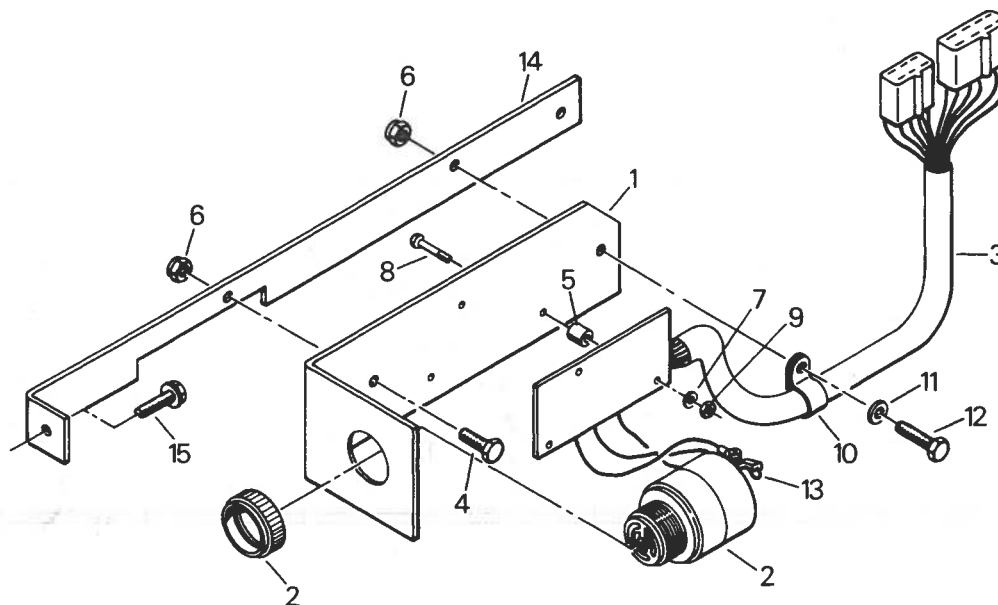
Ref.	Part No.	Description	Qty.
45	19-3041	Screw, #8 NC x 1/2	2
46	19-1015	Nut, #8 NC	2
47	01-3861	Relay	1/2
48	01-3859	Insulator, Rectifier	1
49	01-3860	Wire Assy, Rectifier	1
50	19-5379	Nut	1
51	01-3858	Resistor, 5 OHM	1
52	01-3857	Resistor, 2 OHM	1
53	01-3862	Rectifier Assy	1
54	19-5391	Screw, 1/4 NC x 1/2	
55	19-076	Nut, 1/4 NC	6/8
56	19-115	Lockwasher, 1/4	6/8
57	01-7095	Bracket	1
58	115772	Nut, 3/8 NC Brass	2
59	20-1250T1	Wire, Gnd	1
60	20-1628T1	Wire (ASN 2000)	1
61	20-1583T1	Harness, Tachometer (w/20-1511T1 Tachometer) (see Page 1-25 for more details)	1
62	20-1749T1	Harness, Adapter (used when A/C lamp wiring is too short)	1



Cab Front Electrical (D)

After 2-1-80

Ref.	Part No.	Description	Qty.	Ref.	Part No.	Description	Qty.
1	20-1150T1	Junction Block	1	9	20-1214T1	Wire Assembly, Decelerator Solenoid (used only with Electric Decelerator option)	1
2	22-809	Circuit Breaker, 5 AMP	1	10	20-1198T1	Wire - Slave Solenoid to Ground	1
3	01-3861	Relay	1	11	20-1197T1	Wire - Slave Solenoid to Junction Block	1
4	19-958	Screw, Tapping, 1/4 x 3/4 UNC	4	12	22-729	Switch	2
5	20-1171T1	Bracket, Circuit Breaker	1	13	22-632	Clip	1
6	22-670	Circuit Breaker, 10 AMP	1	14	22-824	Ty Rap	4
7	19-131	Screw, Tapping, #10 x 1/2 UNC	2	15	31-1353	Tee	1
8	20-1608T1	Solenoid (06-1496) (B)	1				



**In July 83, a resistor was added to Ref. 3 and Ref. 13 was added to Ref. 2. These improvements can be added to earlier tractors if needed.*

Audio Alarm Assembly

Ref.	Part No.	Description	Qty.
1-13	20-1216T92	Audio Alarm Assy (20-1216T91)*	1
1	60-1360T2	Mounting Bracket	1
2	20-1215T91	Audio Alarm (B)	1
	20-1215T92	Audio Alarm (B) (incl Ref. 13)	
3	20-1211T92	Electronic Assy (20-1211T91)*	1
4	19-717	Capscrew	1
5	02-3440T1	Spacer	3
6	19-1081	Lock Nut	2
7	138522	Lock Washer	3

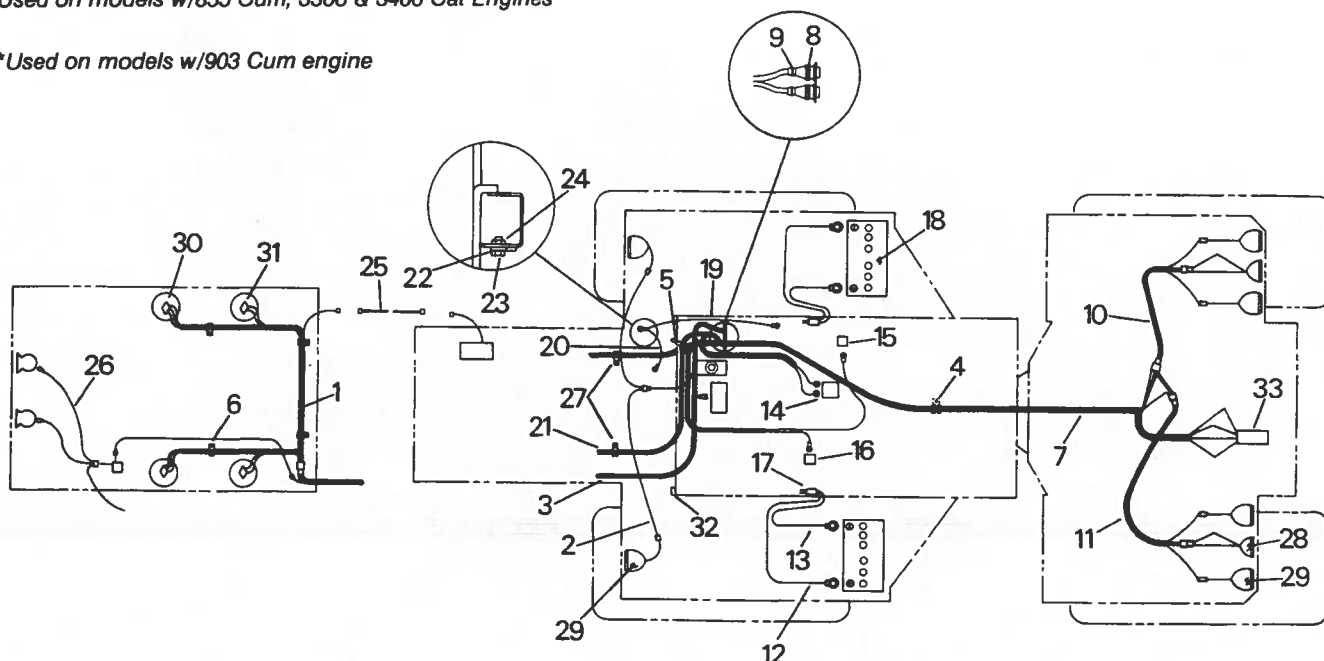
Ref.	Part No.	Description	Qty.
8	19-4874	Machine Screw	3
9	19-1034	Nut	3
10	22-1109	Clamp	1
11	19-105	Washer	1
12	19-001	Capscrew	1
13	20-1940T1	Varistor Assy	1
14	04-1003	Mounting Bracket	1
15	19-5391	Machine Screw	1

***NOTE:** Harnesses 22-750 & 22-754 were used on early tractors w/Receiver Drier mtd. on front frame. 01-8038 & 01-8615 were used later w/Drier mtd. on Cab Front.

Early Style (Bulkhead Connectors)

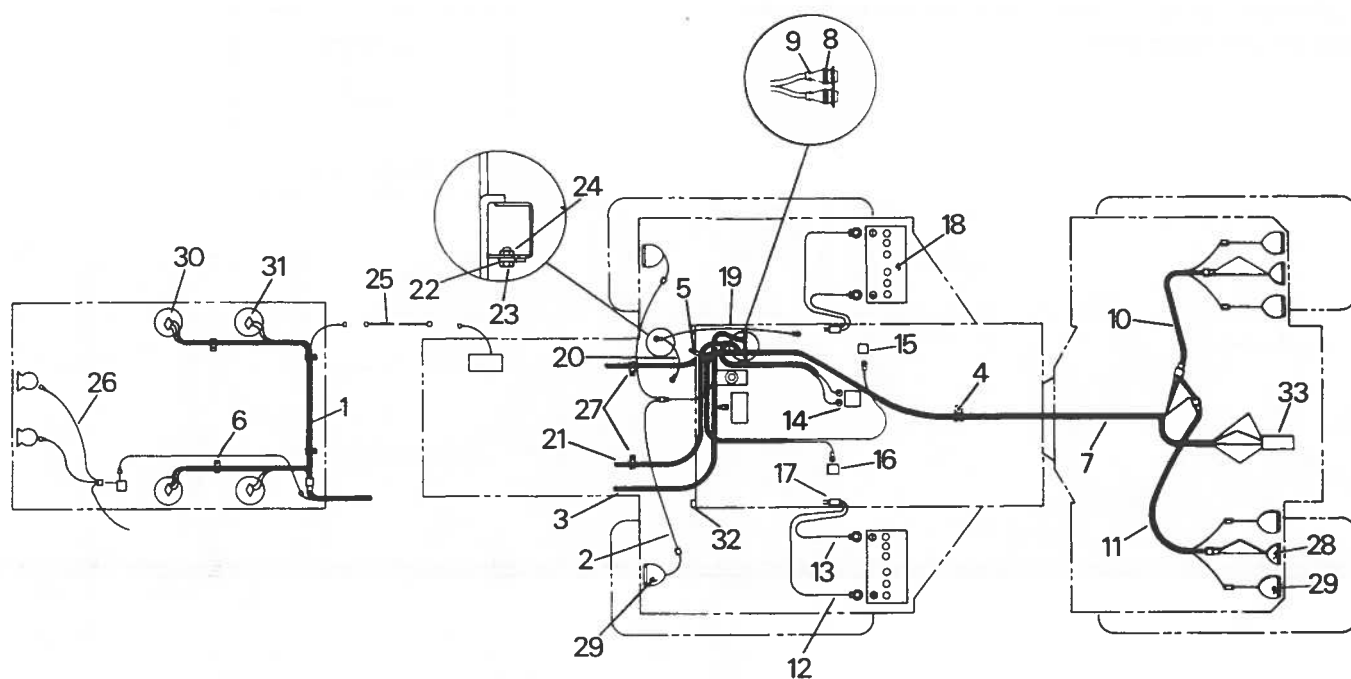
****Used on models w/855 Cum, 3306 & 3406 Cat Engines**

*****Used on models w/903 Cum engine**



Frame Electrical (D)

Ref.	Part No.	Description	Qty.	Ref.	Part No.	Description	Qty.
1	22-750	Harness, Hd Lts*	1	14	22-228	Switch, Neutral Start (D) (mtd externally next to trans shift lever)	1
	01-8038	Harness, Hd Lts*			01-4199	Switch, Neutral Start (D) (mtd in trans cover)	1
2	22-805	Harness, 124" (Fender Lts)	1		01-4198	Gasket (for 01-4199)	1
	01-5508	Harness, 72" (will Repl 22-805 if rerouted a bit)		15	22-682	Switch, Trans Temp	1
3	22-754	Harness, Front* (incl 8 & 9)	1	16	20-1642T1	Switch, Trans Press. (22-680) (B)	1
	01-8615	Harness, Front* (D) (incl 8 & 9)		17	32-161	Clamp (mt hdwe below)	2
4	22-631	Clamp	1		19-107	Washer, 3/8	2
5	22-646	Clamp, (mt hdwe below)	1		19-078	Nut, 3/8 NC	2
	19-291	Lock Nut, 1/4 NC	1	18	22-032	Battery (D)	2
	19-002	Capscrew, 1/4 NC x 1	1	19	01-1211	Strap - Frame To Cab	1
6	32-069	Clamp	4	20	01-1209	Strap - Frame To Engine	1
7	22-755	Harness, Rear (incl 8 & 9) (D)	1	21		Harness, Engine (see pages 2-1 to 2-8)	
8	22-779	Plug	2	22	19-243	Washer, 3/8	1
	01-1633	Terminal, Female (14-16 Ga.)	AR	23	19-017	Capscrew, 3/8 NC x 1	1
	01-4149	Terminal, Female (8-10 Ga.)	AR	24	19-078	Nut, 3/8 NC	1
9	22-781	Clamp, Plug Connector	2	25	01-3774	Wire Assy (all except 855 Cum)	1
10	22-751	Harness, RH Rear Lts	1		01-3775	Wire Assy (855 Cum only)	1
11	22-822	Harness, LH Rear Lts	1	26	01-1417	Wire Assy, Horn	1
12	22-811	Battery Cable, Pos**	1	27	22-637	Clamp	2
	22-1073	Battery Cable, Pos***	1				
13	22-810	Battery Cable, Neg**	1				
	22-1074	Battery Cable, Neg***	1				



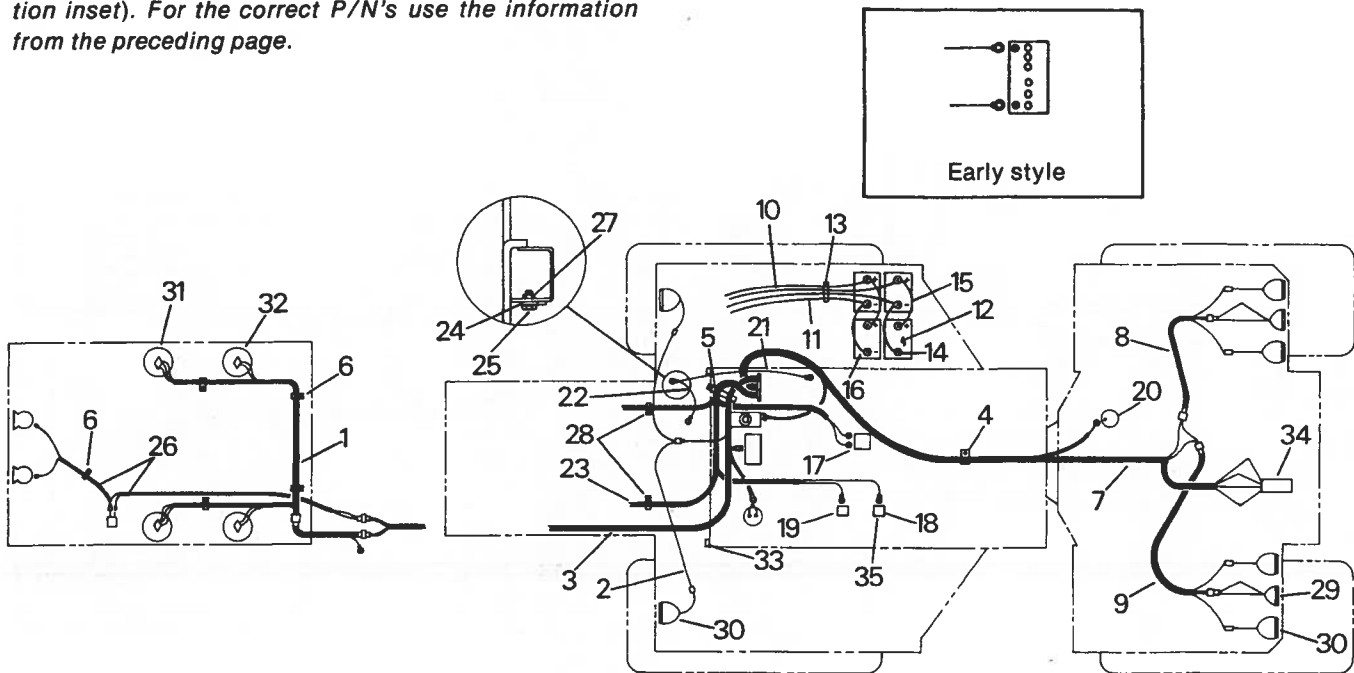
Frame Electrical

Ref.	Part No.	Description	Qty.
28	22-668	Tail Lt (see Page 2-28)	2
29	22-655	Field Lt (see Page 2-28)	6
30	22-657	Lamp Assy, Hi-Lo (see Page 2-28)	2
31	22-661	Lamp Assy, Lo (see Page 2-28)	2
32	22-637	Clamp (on 3306 Cat only)	2
	22-631	Clamp (On 903 Cum only)	2
33	22-789	Impl Socket (mt parts below)	1
	22-790	Boot	1
	01-4819	Bracket	1
	19-007	Capscrew, 5/16 NC x 1	2
	19-116	Lockwasher, 5/16	2
	19-106	Washer, 5/16	2
	19-077	Nut, 5/16 NC	2
	19-675	Capscrew, 5/8 NC x 1-1/4	1
	19-120	Lockwasher, 5/8	1
	22-1143	Plug, Mating (for 22-789 opt.)	1
	19-605	Washer, Ext. Tooth Lock	1

Ref.	Part No.	Description	Qty.
34	22-632	Clamp (not shown) (to hold battery cables on 903 Cum)	1
	22-634	Clamp, W/L shaped brkt (not shown) (to hold battery cables on 903 Cum)	1

NOTE: On some early models with the Packard style connectors, the battery and battery cable arrangement shown on the preceding page was used (see illustration inset). For the correct P/N's use the information from the preceding page.

Later Style (Packard Connectors)



***NOTE: 01-8029 can also be used up after 01-8029T1 is used (approx Feb, 82) if tractor does not have horn option or by modifying (Grounding) horn harness. 01-8029T1 can be used prior to change, but again some modification may be necessary if tractor has old style horn wiring.

*NOTE: SN Break for Cables is same as for Batteries.

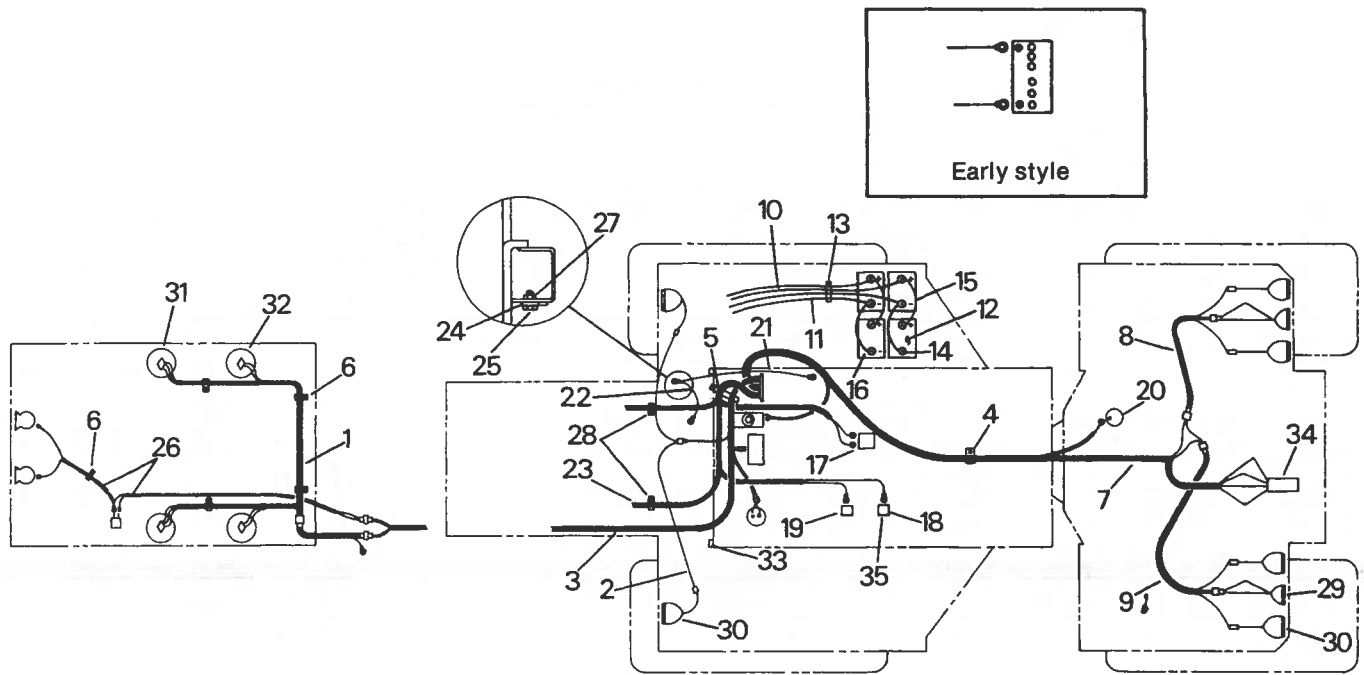
*Use w/903 Cummins & 3406 Cat Engine

**Use w/855 Cummins & 3306 Cat Engine

Frame Electrical (D)

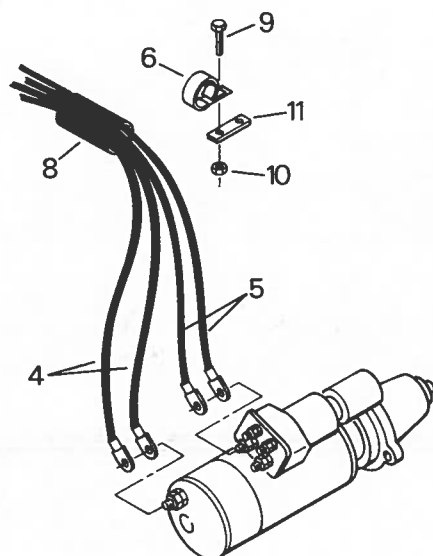
Ref.	Part No.	Description	Qty.	Ref.	Part No.	Description	Qty.
1	01-8038	Head Lts Harness	1	12	22-613	Battery (D)	4
2	01-5508	Front Fender Harness	1	12A	22-032	Battery (Early Style)	1
3	01-8029	Front Frame Harness (D) (see Note***)	1	13	32-343	Clamp	1
	01-8029T1	Front Frame Harness (C)		14	01-4210	Battery Terminal Nut	8
	01-8029T2	Front Frame Harness (B)		15	01-4967	Battery Cable, Pos to Pos	2
4	32-069	Clamp	2	16	01-4968	Battery Cable, Neg to Neg	2
5	22-646	Clamp (mt hdwe below)	1	17	01-4199	Neutral Start Switch	1
	19-291	Lock Nut	1		01-4198	Gasket for 01-4199	1
	19-002	Capscrew	1	18	22-682	Trans Temp. Switch	1
6	22-635	Clamp	4	19	20-1642T1	Trans Press. Switch (22-680) (B)	1
7	01-8032	Rear Frame Harness (C)	1	20	01-8353	Fuel Sender (see Rear Frame in Section 6)	1
	20-1427T1	Rear Frame Harness (C) (w/non swinging transfer case)	1	21	01-1211	Ground Strap - Frame to Cab	1
	20-1427T2	Rear Frame Harness (B)		22	01-1209	Ground Strap - Frame to Engine	1
8	22-751	Rear Lts Harness RH	1	23		Engine Harness (see Pages 2-1 to 2-8)	1
9	22-822	Rear Lts Harness LH	1	24	19-243	Washer	1
10	01-4964	Battery Cable* (Pos)	2	25	19-017	Capscrew	1
	20-1107T1	Battery Cable** (Pos)	1	26	01-8579	Horn Harness (see Horn in Options, Sec 10)	1
11	01-4963	Battery Cable* (Neg)	2				
	20-1106T1	Battery Cable** (Neg)	1				
NOTE: See Page 2-27A for Batteries & Cables used ASN 2716 (4-5-83)							

**Later Style
(Packard Connectors)**

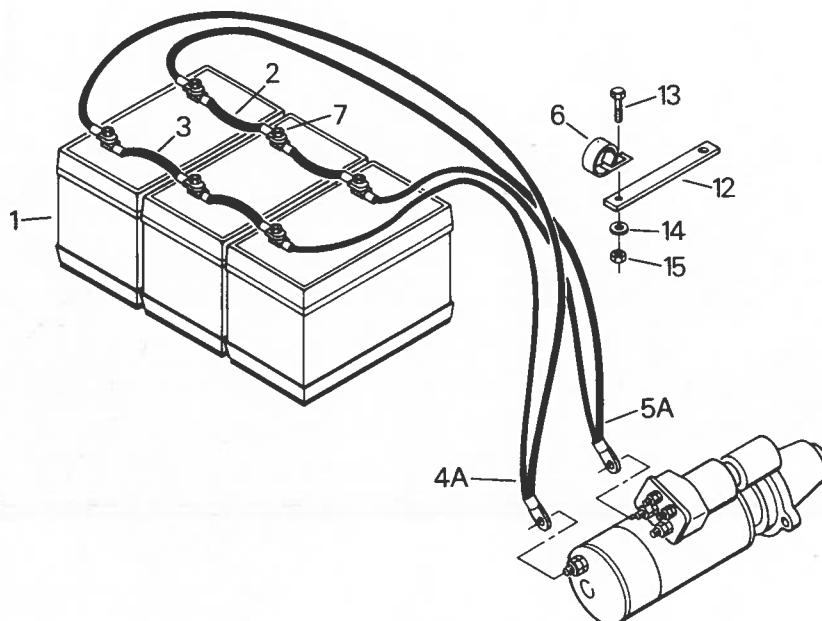


Frame Electrical

Ref.	Part No.	Description	Qty.	Ref.	Part No.	Description	Qty.
27	19-078	Nut, 3/8 NC	1	32	22-661	Lamp Assy, (Lo) (see next page)	2
28	22-637	Clamp	2	33	22-637	Clamp (w/3306 engine only)	2
29	22-668	Tail Lt. (see next page)	2		22-631	Clamp (w/903 Cum only)	1
30	22-655	Field Lt (see next page)	6	34		Same as Item 33 on Page 2-25	
31	22-657	Lamp Assy, (Hi-Lo) (see next page)	2	35	31-073	Reducer	1
				36		Same as Item 34 on Page 2-25	



***Cat 3406 Engine**

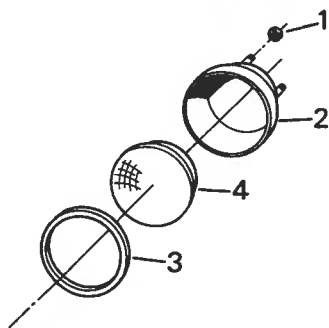


****Cat 3306 & Cummins 855 Engines**

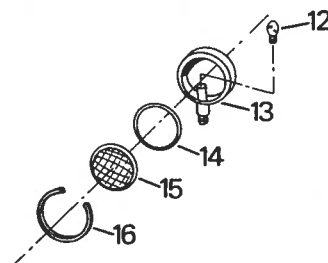
Starter & Battery Electrical (ASN 2716)

Ref.	Part No.	Description	Qty.
1	02-7000	Battery	3
2	20-1743T1	Battery Cable (Pos)	2
3	20-1744T1	Battery Cable (Neg)	2
4	01-4963	Battery Cable (Neg)*	2
4A	20-1106T1	Battery Cable (Neg)**	1
5	01-4964	Battery Cable (Pos)*	2
5A	20-1913T1	Battery Cable (Pos)**	1
6	32-343	Clamp	1
7	01-4210	Nut	6

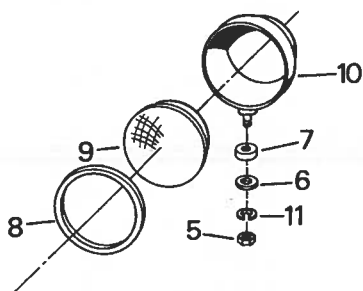
Ref.	Part No.	Description	Qty.
8	01-4571	Hose	2
9	19-017	Capscrew	1
10	19-087	Lock Nut	1
11	04-588	Spacer	1
12	25-395	Strap	1
13	19-002	Capscrew	1
14	19-223	Washer	1
15	19-076	Nut	1
16	19-464	Cable Tie (not shown)	2



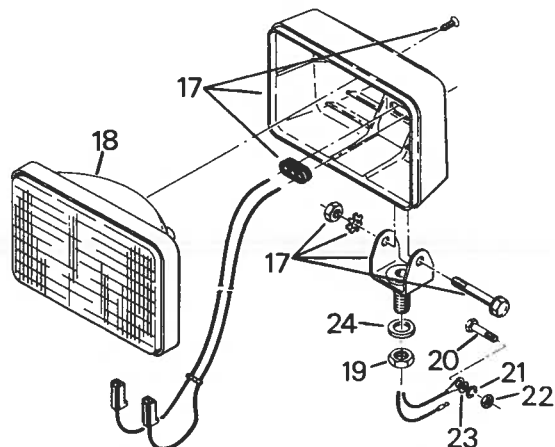
Headlamp Assembly



Tail Light



Field Light, Early Style



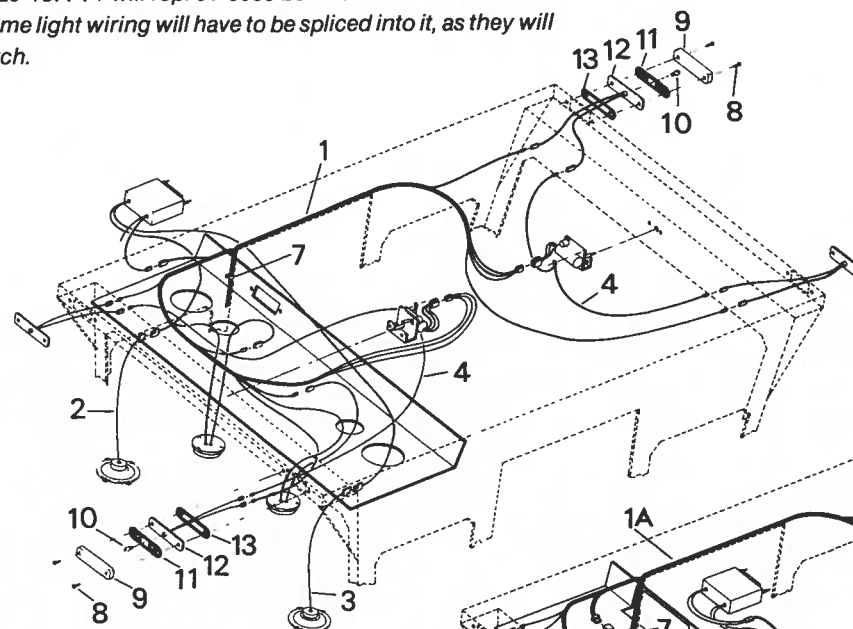
Field Light, Later Style

Lights

Ref.	Part No.	Description	Qty.
1-4	22-657	Headlamp Assy (Hi-Lo)	2
	22-661	Headlamp Assy (Lo)	2
1	19-567	Nut	12
2	22-659	Frame Assy	4
3	22-660	Retainer	4
4	22-658	Lamp (Hi-Lo)	2
	22-662	Lamp (Lo)	2
5-11	22-655	Field Light (Early Style)	6
5	19-237	Jam Nut	6
6	22-367	Washer	6
7	22-366	Bushing	6
8	22-660	Retainer	6
9	22-656	Lamp	6
10	NSS	Housing	6
11	19-119	Lock Washer	6

Ref.	Part No.	Description	Qty.
12-16	22-668	Tail Light	2
12	22-286	Bulb	2
13	NSS	Housing	2
14	22-285	Gasket	2
15	22-284	Lens	2
16	22-283	Retainer	2
17-24	20-1730T91	Field Light (Later Style)	6
17	NSS	Housing & Mounting	1
18	20-1822T1	Sealed Beam	1
19	19-653	Lock Nut	1
20	19-001	Capscrew	1
21	19-883	Lock Washer	1
22	19-076	Nut	1
23	19-105	Washer	1
24	22-367	Spring Washer	1

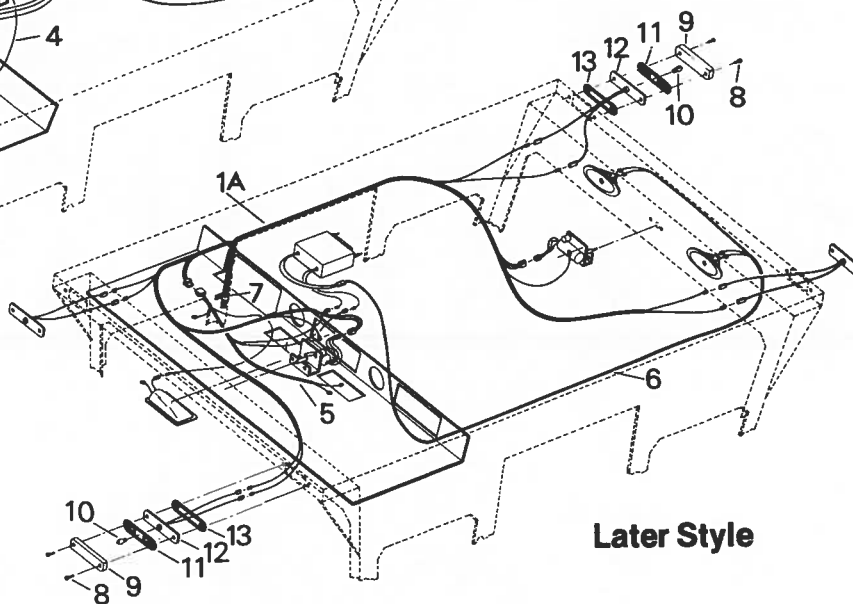
***NOTE:** 20-1377T1 will repl 01-8030 but the wires on the earlier style dome light wiring will have to be spliced into it, as they will not match.



Early Style

****20-1812T1 Wire Harness** can be used to replace 01-5970 but minor modifications to the terminals at the warning lights will be necessary.

*****Same as 20-1377T1** except that it includes the radio adapter harness 20-1646T1 as shown on Page 1-30A.



Later Style

Upper Cab & Console Electrical

Ref.	Part No.	Description	Qty.
1	22-762	Upper Cab Harness (D)	1
	01-3922	Upper Cab Harness (D)	1
1A	01-5970	Upper Cab Harness (D)	1
	20-1812T1	Upper Cab Harness**	1
2	22-818	Speaker Wire RH	1
3	22-817	Speaker Wire LH	1
4	22-798	Warning Lights Wire	2
5	01-8030	Front Console Harness*	1
		(has single wire to dome light)	
	20-1377T1	Front Console Harness*	1
		(has dual wire to dome light)	
	20-1811T1	Front Console Harness***	1
6	01-4826	Speakers Harness (D)	1
		(use w/8 Track Tape Radios)	
	20-1298T2	Speakers Harness (D)	
		(use w/Fujitsu, Motorola & Panasonic Radios)	

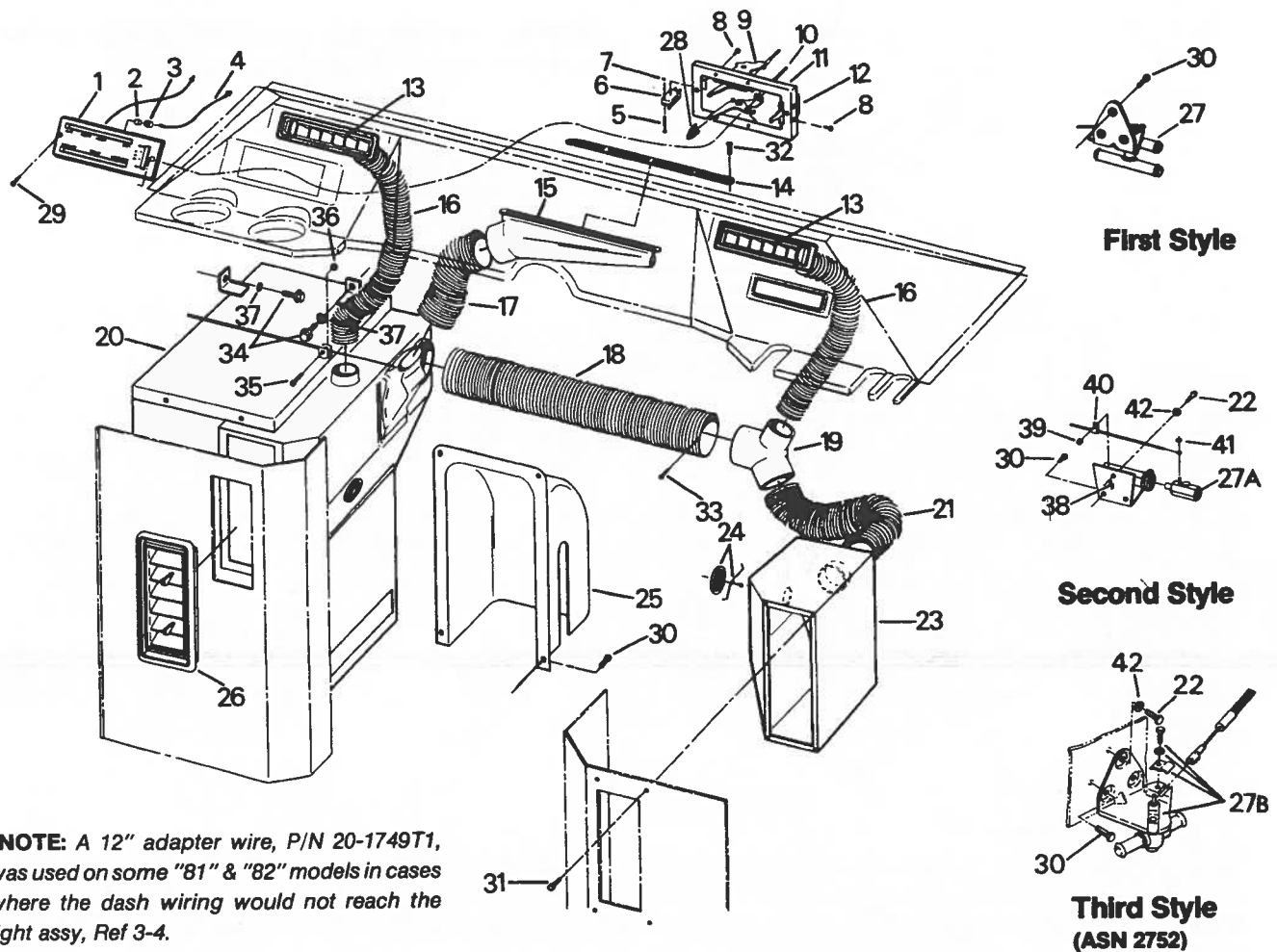
Ref.	Part No.	Description	Qty.
7	22-821	Clamp (not on later tractors)	3
8-13	22-665	Warning Light Assy	4
8	19-1104	Screw	8
9	NSS	Lens (order 22-665)	4
10	22-667	Bulb	4
11	22-663	Gasket	4
12	NSS	Housing (order 22-665)	4
13	22-664	Gasket	4
14	20-1203T1	Wiper Wire Harness (not shown) (see Note on Page 1-31)	1

Section 3 - Climate

Description	Page
A/C Heater Assembly & Controls - Cab	3-1
A/C & Heater Module (Standard)	3-2
A/C & Heater Module (Service)	3-3
A/C Plumbing (855 Cummins)	3-4 & 3-5
A/C Plumbing (3306 Cat)	3-6 & 3-7
A/C Plumbing (903 Cummins)	3-8 & 3-9
A/C Plumbing (3406 Cat)	3-10 & 3-11
A/C Compressor Mts	3-12 to 3-14
A/C Compressor Assy	3-15

Section 3 - Climate

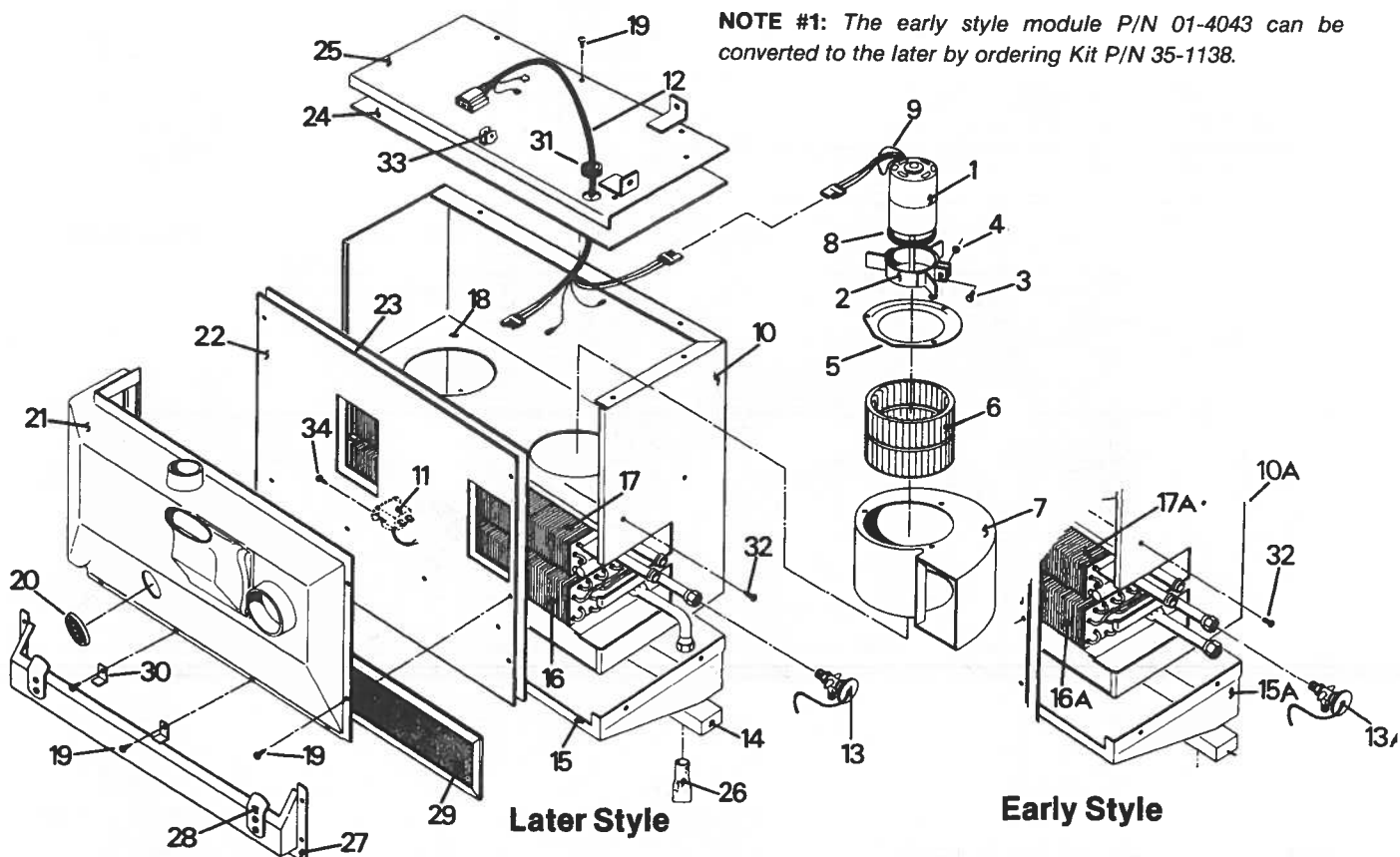
Page	Old P/N	New P/N	Code	Model	SN Break
3-1	25-007	60-2410T1	C	all	S/N Breaks not yet available, however, either will work ok.
3-1 3-2	25-1006	A/C & Heater Controls Later Style	D	all	S/N Breaks not yet available but usage can be determined by comparison to illustration.
3-1	25-1009	01-4626	E	ST 220 ST 250 ST 270 ST 251CP ST 310CP ST 320 ST 325 ST 225 ST 280 ST 280 ST 350	103-00218 104-00297 105-00427 106-00216 107-00452 108-00212 123-00331 109-00001 110-00001 111-00001 139-00001
3-3	01-4043	01-7779* 02-3719T91*	E E	ST 220 ST 250 ST 270 ST 251CP ST 310CP ST 325 ST 350 ST 320 ST 225 ST 280 ST 280	model discontinued 104-00331 105-00492 106-00257 107-00484 123-00400 139-00011 model discontinued 109-00001 110-00001 111-00001 * See notes on Page 3-3. 01-7779 has been field installed on many units prior to S/N Break so check illustration for identification.
3-13	01-4017 01-4019	01-7122 01-7121	D D	ST 250 ST 270 ST 225	104-00331 to not used 105-00545 to 105-01030 109-00001 to 109-00327
3-13	01-7122 06-1428 90-2151T1	90-2421T1 01-2820 01-2820	D D D	ST 250 ST 270 ST 225	104-00331 105-01031 109-00328
3-14	02-1721	02-1849T2	D	ST 320 ST 350	108-00212 139-00021
3-21 3-20	01-3769 01-3768	02-1780 02-1781	B B	ST 220 ST 250 ST 270 ST 251CP ST 310CP ST 320 ST 325 ST 225 ST 280 ST 280	model discontinued 104-00331 105-00578 106-00313 107-00534 108-00212 123-00540 109-00001 110-00001 111-00001



A/C - Heater Assembly & Controls - Cab

Ref.	Part No.	Description	Qty.
1-4	60-2862T91	Panel Assy	1
1-2	60-2410T1	Panel, Control (25-1007) (C)	1
3-4	20-1461T1	Light Assy (25-1070) (B)*	1
5-12	25-1006	Control Panel Assy (D)	1
5	19-1035	Machine Screw	2
6	25-1067	Switch, Micro	1
7	19-1034	Nut	2
8	19-1036	Tap-Screw	6
9	25-1065	Lever w/cable, Defroster	1
10	25-1066	Lever w/cable, Water Valve	1
11	25-1064	Bracket, Mounting	1
12	25-1068	Switch, Blower	1
13	25-1010	Louver	2
14	25-1013	Grille, Defrost	1
15	25-1012	Duct, Defrost	1
16	25-1016	Hose, Air	2
17	25-1017	Hose, Air	1
18	25-1015	Hose, Air	1
19	01-4625	Connector, Hose	1
20		Module Assy (see Page 3-2)	
21	01-6660	Hose, Air	1
22	19-259	Tap-Screw	1
23	01-4626	Transition Assy (25-1009) (E)	1

Ref.	Part No.	Description	Qty.
24	25-1071	Louver	2
25	25-1019	Cover (use w/01-4043 module on next page)	1
	01-9433	Cover (use w/later modules on next page)	1
26	25-1011	Louver	2
27		Service w/27B	1
27A	01-7777	Water Valve (E) (service w/27B)	1
27B	60-2392T1	Water Valve	1
28	25-1008	Knob	3
29	19-1018	Screw	2
30	19-131	Tapping Screw	7/6
31	19-1019	Screw	4
32	9424881	Screw	2
33	19-5822	Tapping Screw	11
34	19-958	Tapping Screw	3
35	19-273	Machine Screw	1
36	19-150	Nut	1
37	19-467	Lock Washer	3
38	01-7780	Valve Bracket	1
39	19-5563	Nut	1
40	31-1291	Clip	1
41	19-5491	Retaining Ring	1
42	19-699	Washer	1

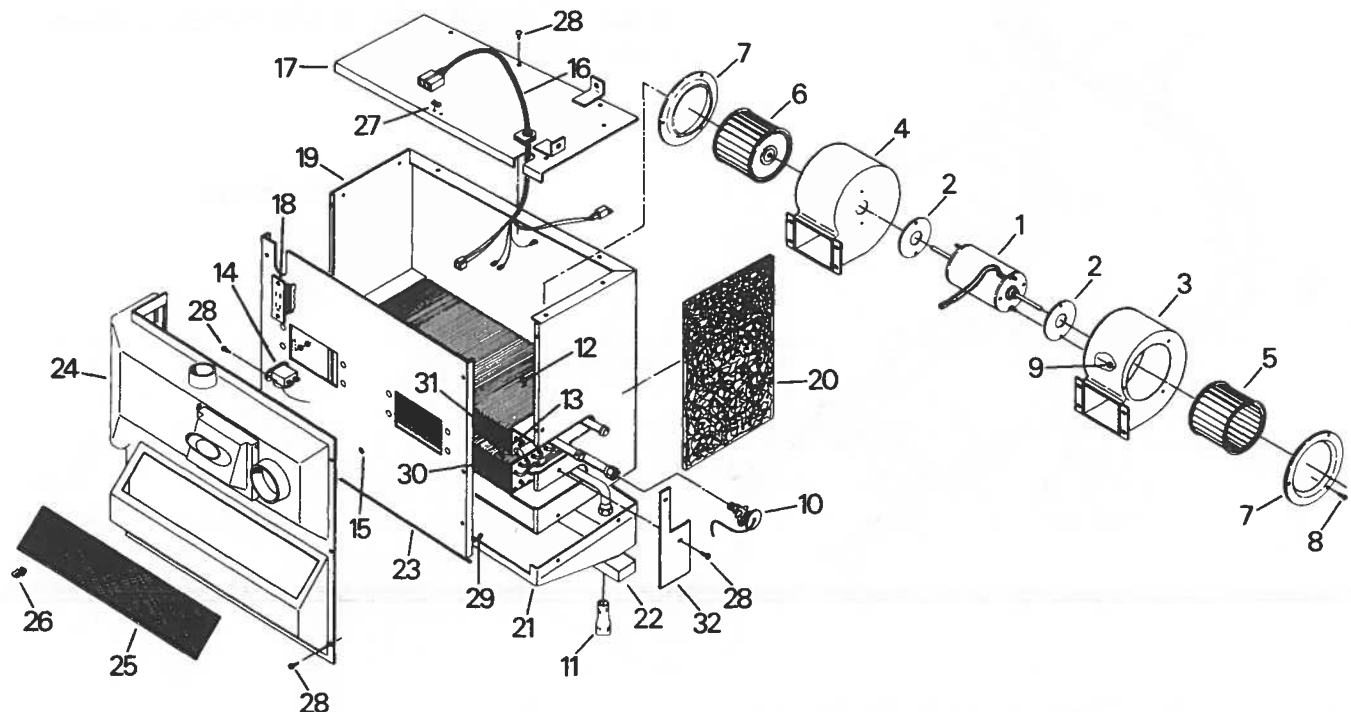


NOTE #1: The early style module P/N 01-4043 can be converted to the later by ordering Kit P/N 35-1138.

NOTE #2: 01-7779 & 02-3719T91 modules differ only by the harness, item 12. The later harness is used w/the dash elec on pages 2-20 & 2-21 that has the later style component assy with the dual relays. Kit P/N 35-1287T92 which includes the newer harness, a relay and mt parts, should always be ordered in place of 01-4006, as it will upgrade the dash as well as the A/C module. See the note on page 2-21 for more information.

A/C & Heater Module (Standard)

Ref.	Part No.	Description	Qty.	Ref.	Part No.	Description	Qty.
1-34	01-4043	Module Assy (E) (see Note #1)	1	16	01-7842	Coil, Evaporator	1
	01-7779	Module Assy (E) (C) (Note #2)	1	16A	25-1037	Coil, Evaporator	1
	02-3719T91	Module Assy (C) (Note #2)	1	17	01-7843	Core, Heater	1
1-9	02-1373	Motor Assy	2	17A	25-1041	Core, Heater	1
1	01-4005T1	Motor (25-1044) (E)	2	18	25-1043	Plate, Blower Mt.	1
2	25-1049	Bracket	2	19	19-1033	Tap-Screw	28
3	19-159	Screw	2	20	25-1071	Louver Assy	1
4	19-1038	Kep Nut	4	21	25-1057	Transition Assy	1
5	25-1047	Ring, Blower Inlet	2	22	01-8386	Panel, Case Front	1
6	25-1046	Wheel, Blower	2	23	25-1054	Insulation, Front Panel	1
7	25-1045	Housing, Blower	2	24	25-1056	Insulation, Cover	1
8	25-1050	Gasket	2	25	25-1055	Cover Assy	1
9	25-1048	Ground Wire	2	26	25-1060	Drain Tube (Flutter Valve)	2
10	01-8083	Wrapper	1	27	01-2066	Transition Assy, Filter	1
10A	25-1030	Wrapper	1	28	01-2068	Clamp	2
11	25-1039	Thermostat	1	29	01-2065	Filter (with Foam Seal)	1
12	01-4006	Harness (Early) (see Note #2)	1	30	01-2067	Clip	2
	20-1242T1	Harness (Late) (see Note #2)	1	31	31-1008	Grommet	1
13	01-7844	Valve, Expansion (Later)	1	32	9418047	Screw, Tapping	4
13A	25-1038	Valve, Expansion (Early)	1	33	02-1374	Clip, Cable	1
14	25-1059	Pad	1	34	19-1027	Screw, Tapping	2
15	01-8087	Pan Drip	1		01-1701	Filter Coating (can not shown)	AR
15A	25-1058	Pan Drip	1				



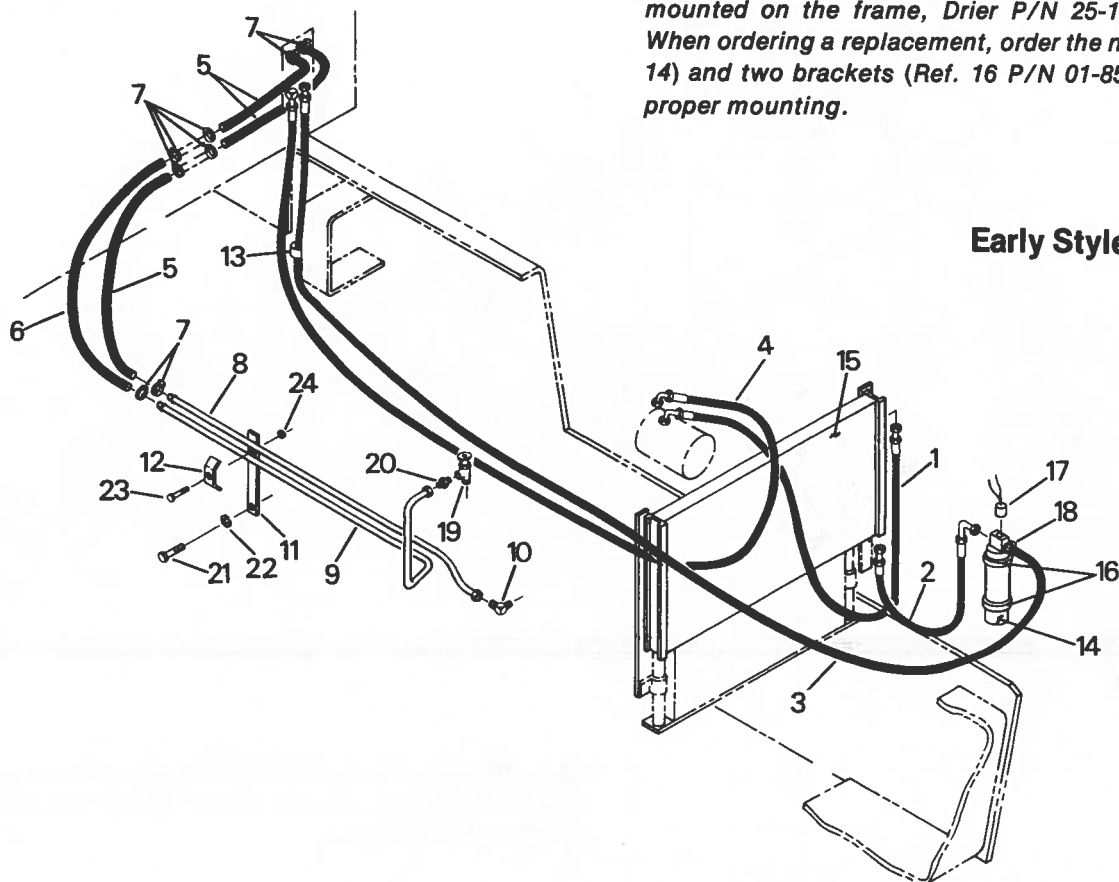
NOTE: The complete module assy as shown on Page 3-2 may no longer be available. If so, this unit can be used with very little modification in mounting.

A/C & Heater Module Assembly (Service Only)

Ref.	Part No.	Description	Qty.
1-31	60-3806T91	Module Assy	1
1-9	60-2641T91	Blower Assy	1
1	60-2564T1	Blower Motor	1
2	60-2565T1	Motor Gasket	2
3	60-2568T1	Blower Housing, RH	1
4	60-2569T1	Blower Housing, LH	1
5	60-2566T2	Blower Wheel, RH	1
6	60-2629T2	Blower Wheel, LH	1
7	60-2567T1	Inlet Flange	2
8	9426646	Tapping Screw	6
9	19-5975	Lock Nut	4
10	01-7844	Expansion Valve	1
11	25-1060	Drain Tube	1
12	01-7842	Evaporator Coil	1
13	01-7843	Heater Core	1
14	25-1039	Thermostat	1
15	31-1725	Grommet	1

Ref.	Part No.	Description	Qty.
16	60-4312T1	Wire Harness	1
17	NSS	Cover Assy	1
18	60-4313T1	Resistor	1
19	NSS	Wrapper Assy	1
20	60-4314T1	Firewall Seal	1
21	01-8087	Drip Pan	1
22	25-1059	Pad	1
23	NSS	Front Panel	1
24	60-4311T1	Transition Assy	1
25	01-2065	Filter	1
26	60-4318T1	S Clip	4
27	02-1374	Cable Clip	1
28	19-1027	Tapping Screw	26
29	445476	U Nuts	2
30	60-4316T1	Heater Foam	1
31	60-4317T1	Evaporator Foam	1
32	60-4362T1	Panel	1

NOTE: On early models with the Receiver Drier mounted on the frame, Drier P/N 25-195 was used. When ordering a replacement, order the new style (Ref. 14) and two brackets (Ref. 16 P/N 01-8563) to assure proper mounting.

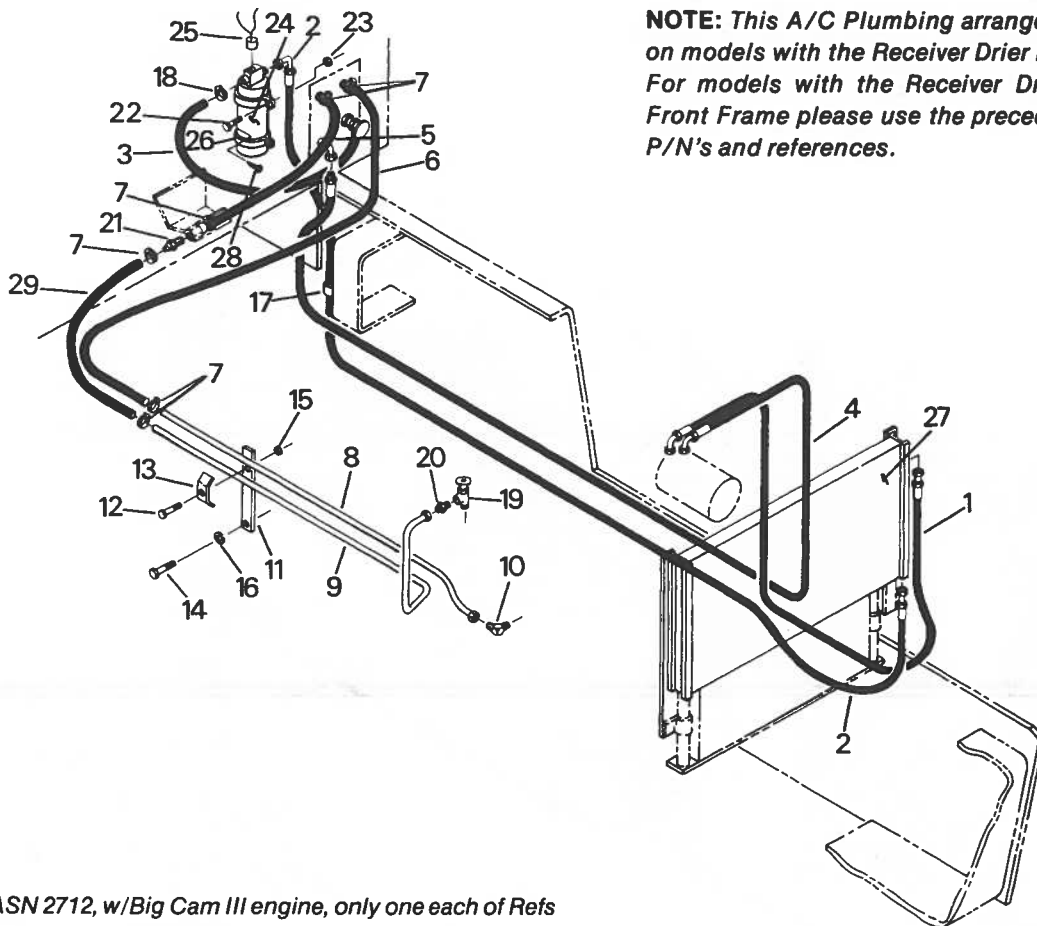


Early Style

A/C & Heater Plumbing - 855 Cum (Early Style)

Ref.	Part No.	Description	Qty.
1-4	25-399	Hose Kit (ST 220 & ST 251)	1
	25-401	Hose Kit (ST 310 only)	
1	25-384	Hose (ST 220 & ST 251)	1
	25-386	Hose (ST 310 only)	
2	25-381	Hose (ST 220 only)	1
	25-387	Hose (ST 251 & ST 310)	
3	25-382	Hose	1
4	25-385	Hose	1
5	32-335	Hose	3
6	25-332	Hose	1
7	25-285	Clamp	8
8	25-389T1	Tube	1
9	25-388	Tube	1
10	31-340	Elbow	2
11	25-395	Strap	2
12	32-1000	Clamp	2
13	22-632	Clamp	1
14	01-7778	Receiver Drier (see Note)	1

Ref.	Part No.	Description	Qty.
15	25-196	Condenser	1
	02-3370T1	Condenser (either can be used as they are interchangeable)	
16	25-046	Clamp (used only with Drier P/N 25-195)	2
	01-8563	Bracket (see Note)	
17	25-1002	Switch (Low Pressure)	1
18	32-029	Clamp	1
19	31-1275	Valve, Truck (not on some earlier tractors)	1
20	31-319	Connector (used only with Truck Valve) (Ref. 19)	1
21	19-821	Capscrew, 1/2 NC x 1-1/4	2
22	19-119	Lock Washer, 1/2	2
23	19-550	Capscrew, 1/4 NC x 1-1/2	2
24	19-291	Lock Nut, 1/4 NC	2



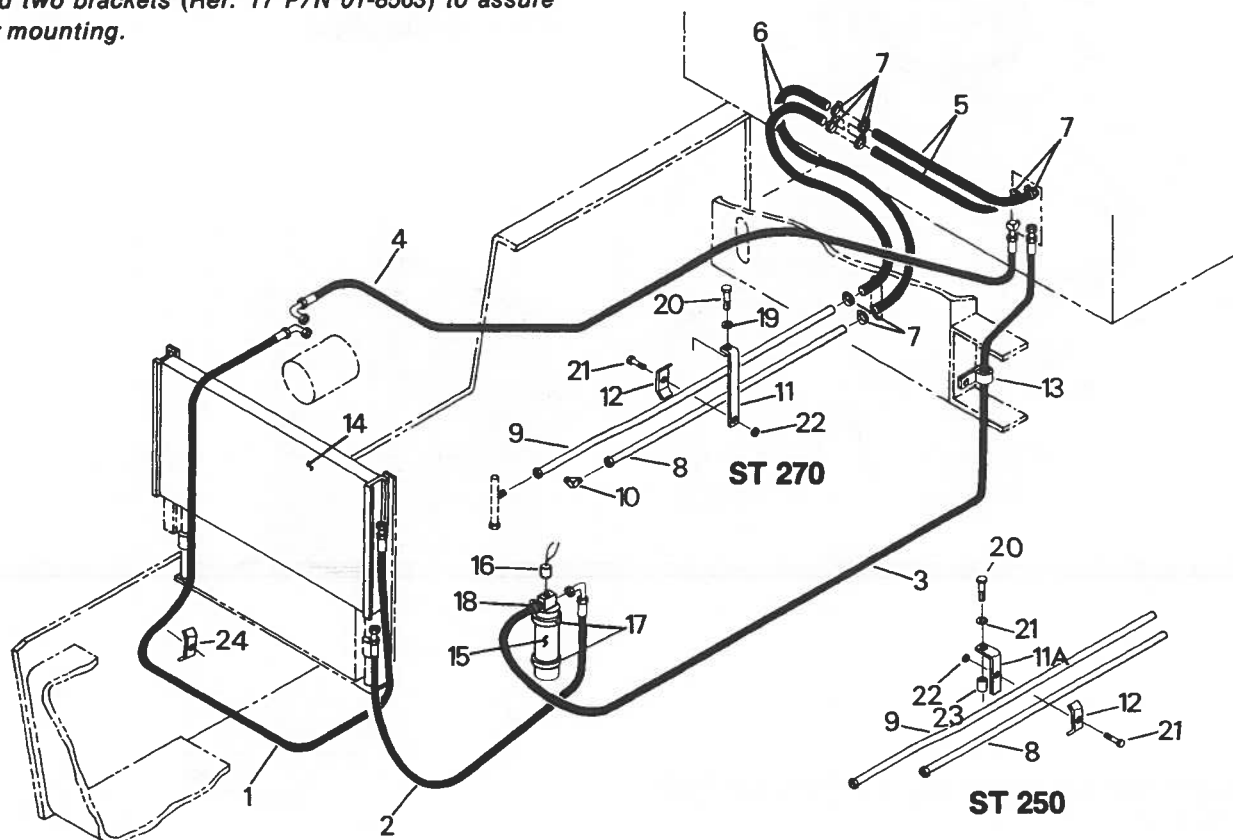
NOTE: This A/C Plumbing arrangement was used only on models with the Receiver Drier mounted on the Cab. For models with the Receiver Drier mounted on the Front Frame please use the preceding page for correct P/N's and references.

NOTE: ASN 2712, w/Big Cam III engine, only one each of Refs 11-16 are used.

A/C & Heater Plumbing - 855 Cum (Later Style)

Ref.	Part No.	Description	Qty.	Ref.	Part No.	Description	Qty.
1	25-384	Hose	1	16	19-119	Lock Washer, 1/2	2
2	31-1350	Hose	1	17	22-632	Clamp	1
3	31-1351	Hose	1	18	25-048	Clamp	1
4	31-1298	Hose	1	19	31-1275	Valve, Truck	1
5	31-1352	Hose	1	20	31-319	Connector	1
6	31-1295	Hose	1	21	31-1296	Barbed Fitting	1
7	25-285	Clamp	6	22	19-211	Capscrew, 1/4 NC x 1-1/4	2
8	25-389T1	Tube (25-389) (E)	1	23	19-5381	Nut, 1/4 NC	2
9	25-388	Tube	1	24	01-7778	Receiver Drier	1
10	31-340	Elbow	1	25	25-1002	Switch (Low Pressure)	1
11	25-395	Strap	2	26	01-8563	Bracket	2
12	19-550	Capscrew, 1/4 NC x 1-1/2	2	27	25-196	Condenser - or	1
13	32-1000	Clamp	2		02-3370T1	Condenser (interchangeable w/25-196)	1
14	19-821	Capscrew, 1/2 NC x 1-1/4	2	28	19-485	Screw, Tapping, 1/4 NC x 1/2	2
15	19-291	Lock Nut, 1/4 NC	2	29	31-1067	Hose	1

NOTE: On early models with the Receiver Drier mounted on the frame, Drier P/N 25-195 was used. When ordering a replacement, order the new style (Ref. 15) and two brackets (Ref. 17 P/N 01-8563) to assure proper mounting.

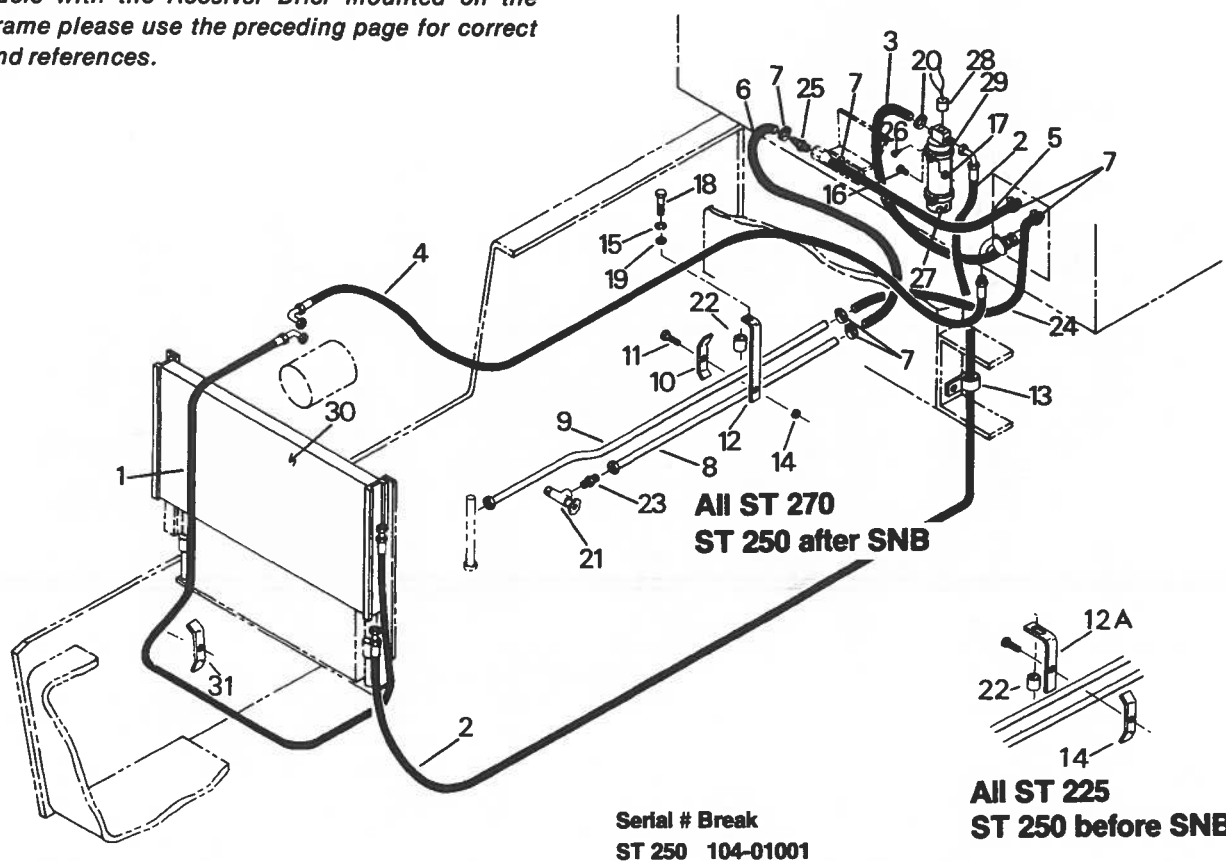


A/C & Heater Plumbing - 3306 Engine (Early Style)

Ref.	Part No.	Description	Qty.
1-4	25-400	Hose Kit	1
1	25-380	Hose	1
2	25-397	Hose	1
3	25-382	Hose	1
4	25-383	Hose	1
5	25-332	Hose	2
6	32-333	Hose	2
7	25-285	Clamp	8
8	25-378	Tube	1
9	25-379	Tube	1
10	31-1000	Elbow	1
11	25-393	Bracket	1
11A	25-1001	Bracket	1
12	32-1000	Clamp	1
13	22-632	Clamp	1

Ref.	Part No.	Description	Qty.
14	25-196	Condenser	1
	02-3370T1	Condenser (interchangeable w/25-196)	
15	01-7778	Receiver Drier (see Note)	1
16	25-1002	Switch (Low Pressure)	1
17	25-046	Clamp (used only with Drier P/N 25-195)	2
	01-8563	Bracket (see Note)	
18	32-029	Clamp	1
19	19-117	Lock Washer, 3/8	1
20	19-014	Capscrew, 3/8 NF x 2	1
21	19-550	Capscrew, 1/4 NC x 1-1/2	1
22	19-291	Lock Nut, 1/4 NC	1
23	01-483	Tube (ST 250 only)	1
24	51-243	Clamp	1

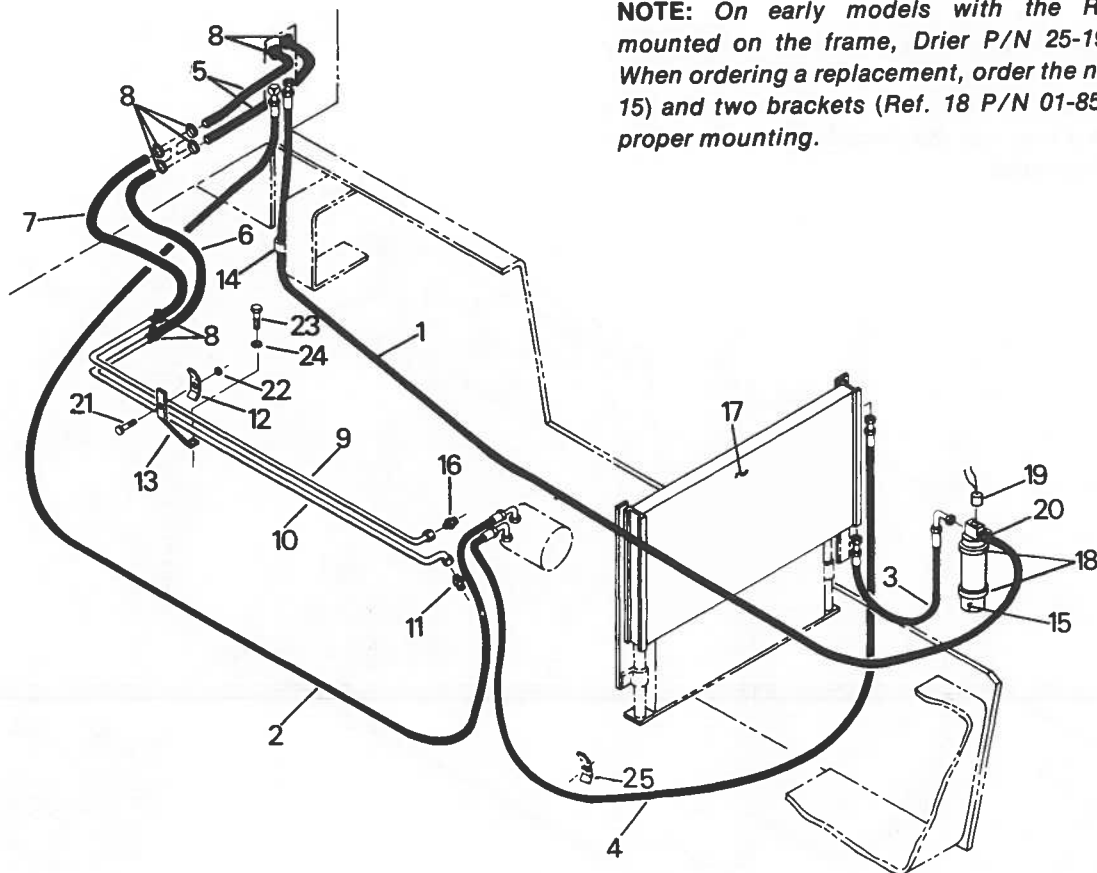
NOTE: This A/C Plumbing arrangement was used only on models with the Receiver Drier mounted on the Cab. For models with the Receiver Drier mounted on the Front Frame please use the preceding page for correct P/N's and references.



A/C & Heater Plumbing - 3306 Engine (Later Style)

Ref.	Part No.	Description	Qty.
1	25-380	Hose	1
2	31-1350	Hose	1
3	31-1351	Hose	1
4	31-1299	Hose	1
5	31-1352	Hose	1
6	31-1067	Hose	1
7	25-285	Clamp	6
8	25-378	Tube	1
9	25-379	Tube	1
10	32-1000	Clamp	1
11	19-550	Capscrew, 1/4 NC x 1-1/2	1
12	25393	Bracket (all ST 270) (ST 250 after S/N Break w/DI Engine)	1
12A	25-1001	Bracket (all ST 225) (ST 250 before S/N Break)	1
13	22-632	Clamp	1
14	19-291	Lock Nut, 1/4 NC	1
15	19-117	Lock Washer, 3/8	1
16	19-211	Capscrew, 1/4 NC x 1-14	2
17	19-5381	Nut, 1/4 UNC	2
18	19-014	Capscrew, 3/8 NF x 2	1

Ref.	Part No.	Description	Qty.
19	19-107	Washer, 3/8	1
20	25-048	Clamp	1
21	31-1275	Valve, Truck	1
22	01-483	Tube	1
23	31-319	Connector	1
24	31-1295	Hose (31-1293) (E)	1
25	31-1296	Barbed Fitting	1
26	19-485	Screw, Tapping, 1/4 NC x 1/2	2
27	01-7778	Receiver Drier	1
28	25-1002	Switch (Low Pressure)	1
29	01-8563	Bracket	1
30	25-196	Condenser	1
	02-3370T1	Condenser (interchangeable w/25-196)	
31	51-243	Clamp	1



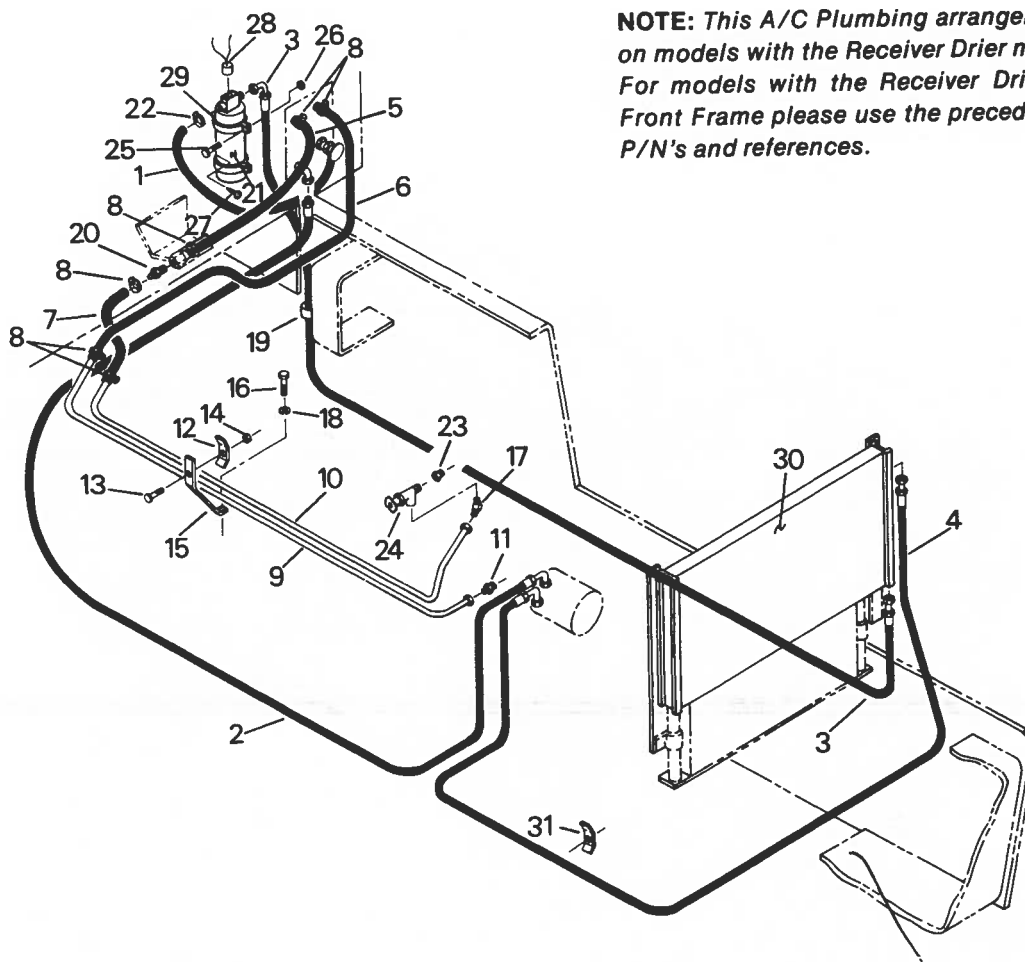
NOTE: On early models with the Receiver Drier mounted on the frame, Drier P/N 25-195 was used. When ordering a replacement, order the new style (Ref. 15) and two brackets (Ref. 18 P/N 01-8563) to assure proper mounting.

A/C & Heater Plumbing - 903 Cummins (Early Style)

Ref.	Part No.	Description	Qty.
1-4	25-402	Hose Kit	1
1	25-382	Hose	1
2	25-1028	Hose	1
3	25-397	Hose	1
4	25-398	Hose	1
5	25-332	Hose	2
6	32-331	Hose	1
7	32-332	Hose	1
8	25-285	Clamp	8
9	25-390	Tube	1
10	25-391	Tube	1
11	31-449	Fitting	1
12	32-1000	Clamp	2
13	25-394	Bracket	2
14	32-632	Clamp	1

Ref.	Part No.	Description	Qty.
15	01-7778	Receiver Drier (see Note)	1
16	31-441	Fitting	1
17	25-196	Condenser	1
	02-3370T1	Condenser (interchangeable w/25-196)	
18	25-046	Clamp (used only with Drier P/N 25-195)	2
	01-8563	Bracket (see Note)	
19	25-1002	Switch (Low Pressure)	1
20	32-029	Clamp	1
21	19-550	Capscrew, 1/4 NC x 1-1/2	2
22	19-291	Lock Nut, 1/4 NC	2
23	19-821	Capscrew, 1/2 NC x 1-1/4	2
24	19-119	Lock Washer, 1/2	2
25	51-243	Clamp	1

NOTE: This A/C Plumbing arrangement was used only on models with the Receiver Drier mounted on the Cab. For models with the Receiver Drier mounted on the Front Frame please use the preceding page for correct P/N's and references.

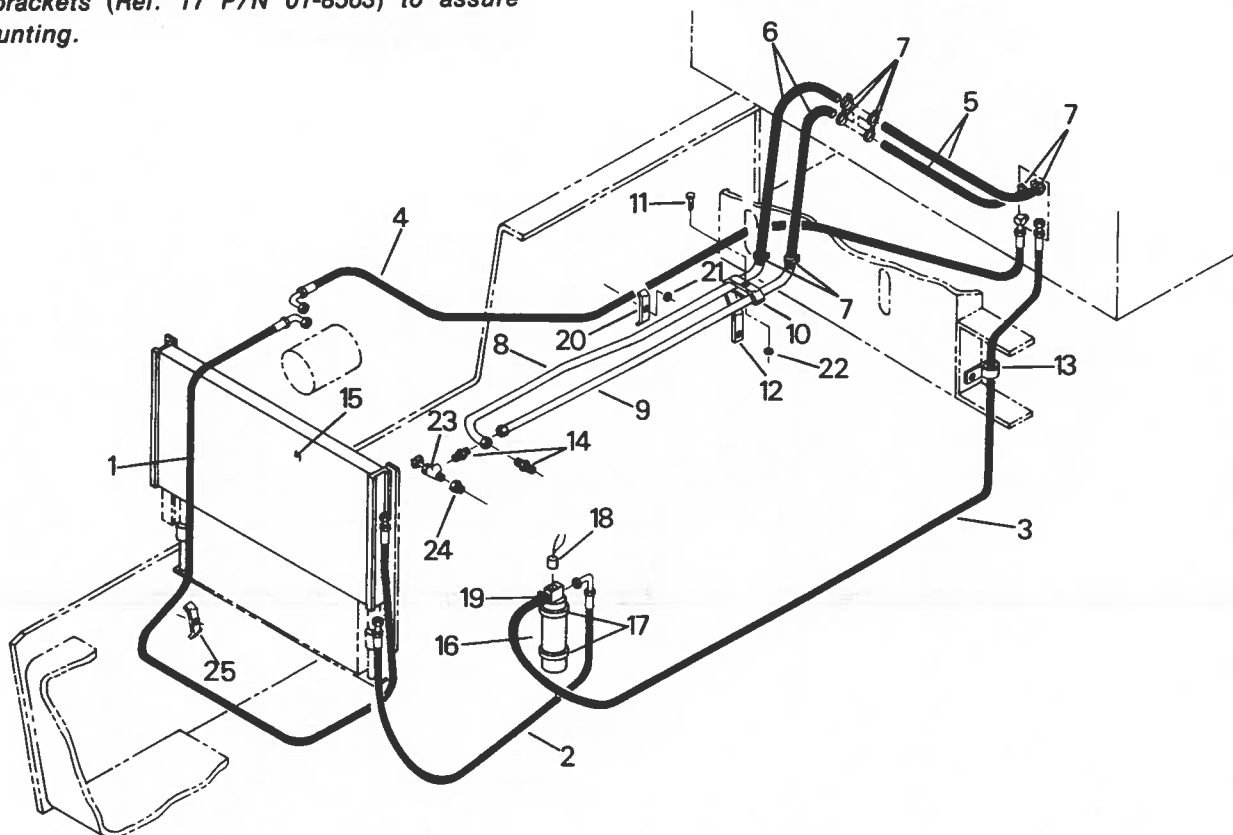


A/C & Heater Plumbing - 903 Engine (Later Style)

Ref.	Part No.	Description	Qty.
1	31-1351	Hose	1
2	31-1297	Hose	1
3	31-1350	Hose	1
4	25-398	Hose	1
5	31-1352	Hose	1
6	31-1295	Hose (31-1293) (E)	1
7	31-1067	Hose	1
8	25-285	Clamp	6
9	25-390	Tube	1
10	01-7798	Tube	1
11	31-449	Connector	1
12	32-1000	Clamp	2
13	19-550	Capscrew, 1/4 NC x 1-1/2	2
14	19-291	Lock Nut, 1/4 NC	2
15	25-394	Bracket	2
16	19-821	Capscrew, 1/2 NC x 1-1/4	2
17	31-1304	Fitting	1

Ref.	Part No.	Description	Qty.
18	19-119	Lock Washer, 1/2	2
19	22-632	Clamp	1
20	31-1296	Barbed Fitting	1
21	01-7778	Receiver Drier	1
22	25-048	Clamp	1
23	31-013	Reducer	1
24	31-1275	Valve, Truck	1
25	19-211	Capscrew, 1/4 NC x 1-1/4	2
26	19-5381	Nut, 1/4 NC	2
27	19-485	Screw, Tapping, 1/4 NC x 1/2	2
28	25-1002	Switch (Low Pressure)	1
29	01-8563	Bracket	2
30	25-196	Condenser	1
	02-3370T1	Condenser (interchangeable w/25-196)	
31	51-243	Clamp	1

NOTE: On early models with the Receiver Drier mounted on the frame, Drier P/N 25-195 was used. When ordering a replacement, order the new style (Ref. 16) and two brackets (Ref. 17 P/N 01-8563) to assure proper mounting.

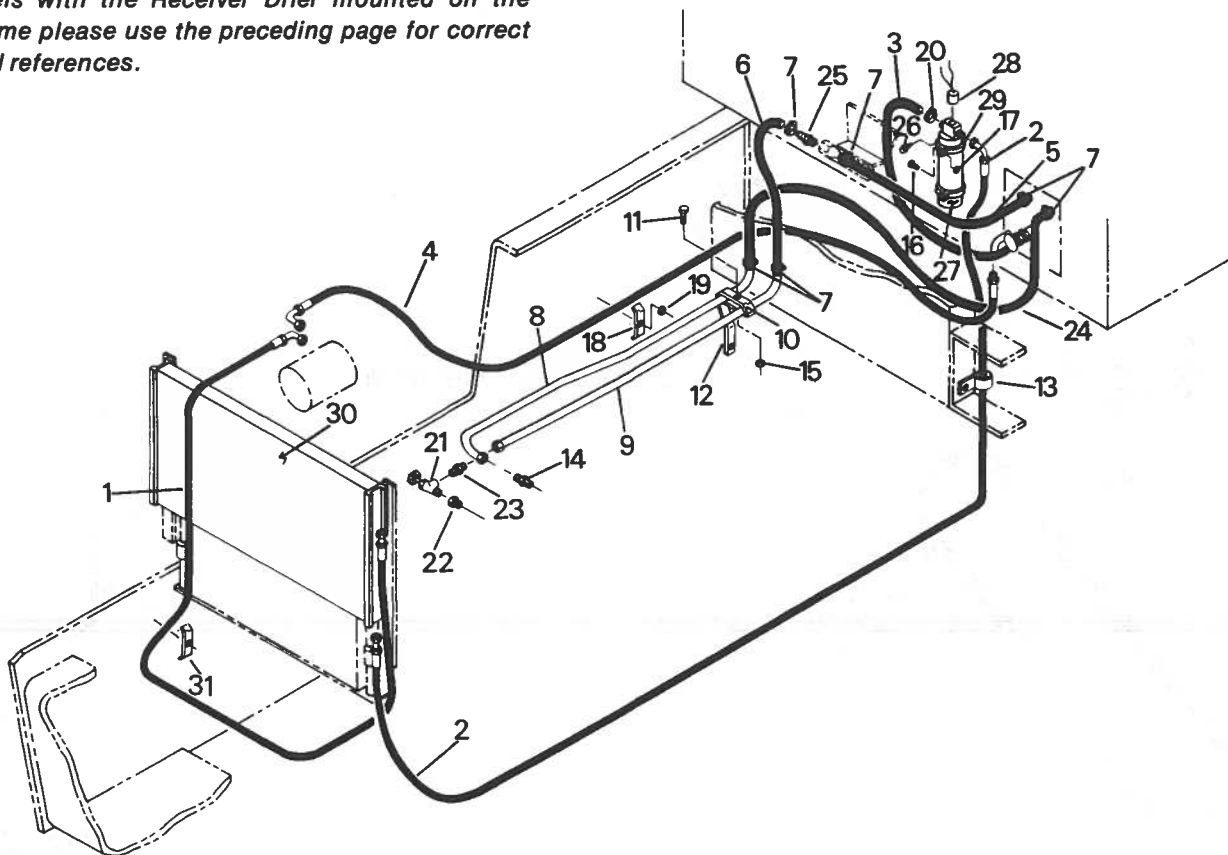


A/C & Heater Plumbing - 3406 Cat (Early Style)

Ref.	Part No.	Description	Qty.
1	25-380	Hose	1
2	25-381	Hose	1
3	25-382	Hose	1
4	25-1028	Hose	1
5	25-332	Hose	2
6	32-333	Hose	2
7	25-285	Clamp	8
8	25-1026	Tube	1
9	25-1025	Tube	1
	01-6867	Tube (used only with Truck Valve (Ref. 23))	
10	32-1000	Clamp	1
11	19-550	Capscrew, 1/4 NC x 1-1/2	1
12	25-1027	Bracket	1
13	22-632	Clamp	1

Ref.	Part No.	Description	Qty.
14	31-411	Adapter	2
15	25-196	Condenser	1
	02-3370T1	Condenser (interchangeable w/25-196)	
16	01-7778	Receiver Drier (see Note)	1
17	25-046	Clamp (used only with Drier P/N 25-195)	2
	01-8563	Bracket (see Note)	
18	25-1002	Switch (Low Pressure)	1
19	32-029	Clamp	1
20	51-243	Clamp	2
21	19-078	Nut, 3/8 NC	2
22	19-076	Nut, 1/4 NC	1
23	31-1275	Valve, Truck	1
24	31-013	Bushing (used only with Truck Valve (Ref. 23))	1
25	51-243	Clamp	1

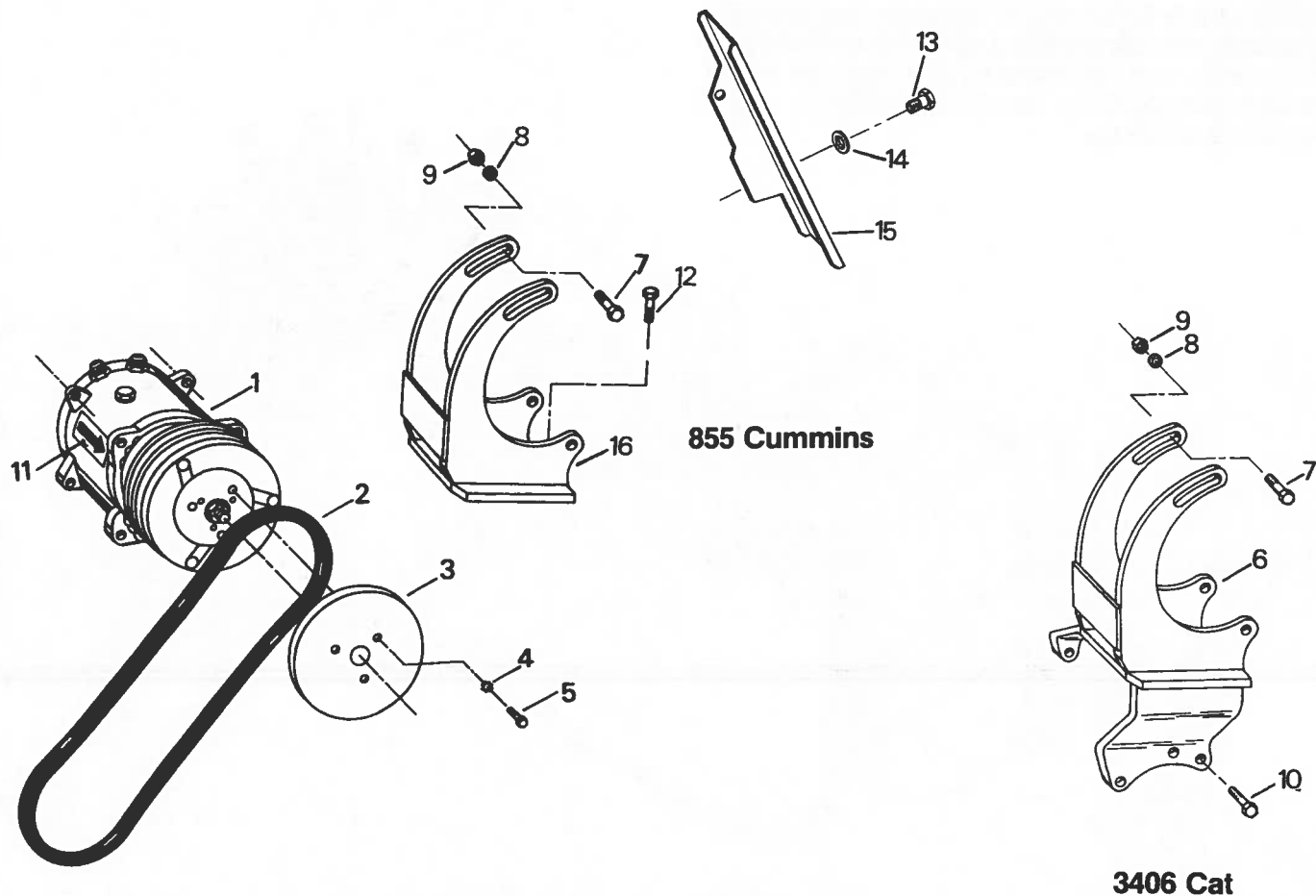
NOTE: This A/C Plumbing arrangement was used only on models with the Receiver Drier mounted on the Cab. For models with the Receiver Drier mounted on the Front Frame please use the preceding page for correct P/N's and references.



A/C & Heater Plumbing - 3406 Cat (Later Style)

Ref.	Part No.	Description	Qty.
1	25-380	Hose	1
2	31-1350	Hose	1
3	31-1351	Hose	1
4	31-1297	Hose	1
5	31-1352	Hose	1
6	31-1067	Hose	1
7	25-285	Clamp	6
8	25-1026	Tube	1
9	01-6867	Tube	1
10	32-1000	Clamp	1
11	19-550	Capscrew, 1/4 NC x 1-1/2	1
12	25-1027	Bracket	1
13	22-632	Clamp	1
14	31-411	Connector	1
15	19-076	Nut, 1/4 NC	1
16	19-211	Capscrew, 1/4 NC x 1-1/4	2
17	19-5381	Nut, 1/4 NC	2

Ref.	Part No.	Description	Qty.
18	51-243	Clamp	2
19	19-078	Nut, 3/8 NC	2
20	25-048	Clamp	1
21	31-1275	Valve, Truck	1
22	31-013	Reducer	1
23	31-319	Connector	1
24	31-1295	Hose (31-1293) (E)	1
25	31-1296	Barbed Fitting	1
26	19-485	Screw, Tapping, 1/4 NC x 1/2	2
27	01-7778	Receiver Drier	1
28	25-1002	Switch (Low Pressure)	1
29	01-8563	Bracket	2
30	25-196	Condenser	1
	02-3370T1	Condenser (interchangeable w/25-196)	1
31	51-243	Clamp	1

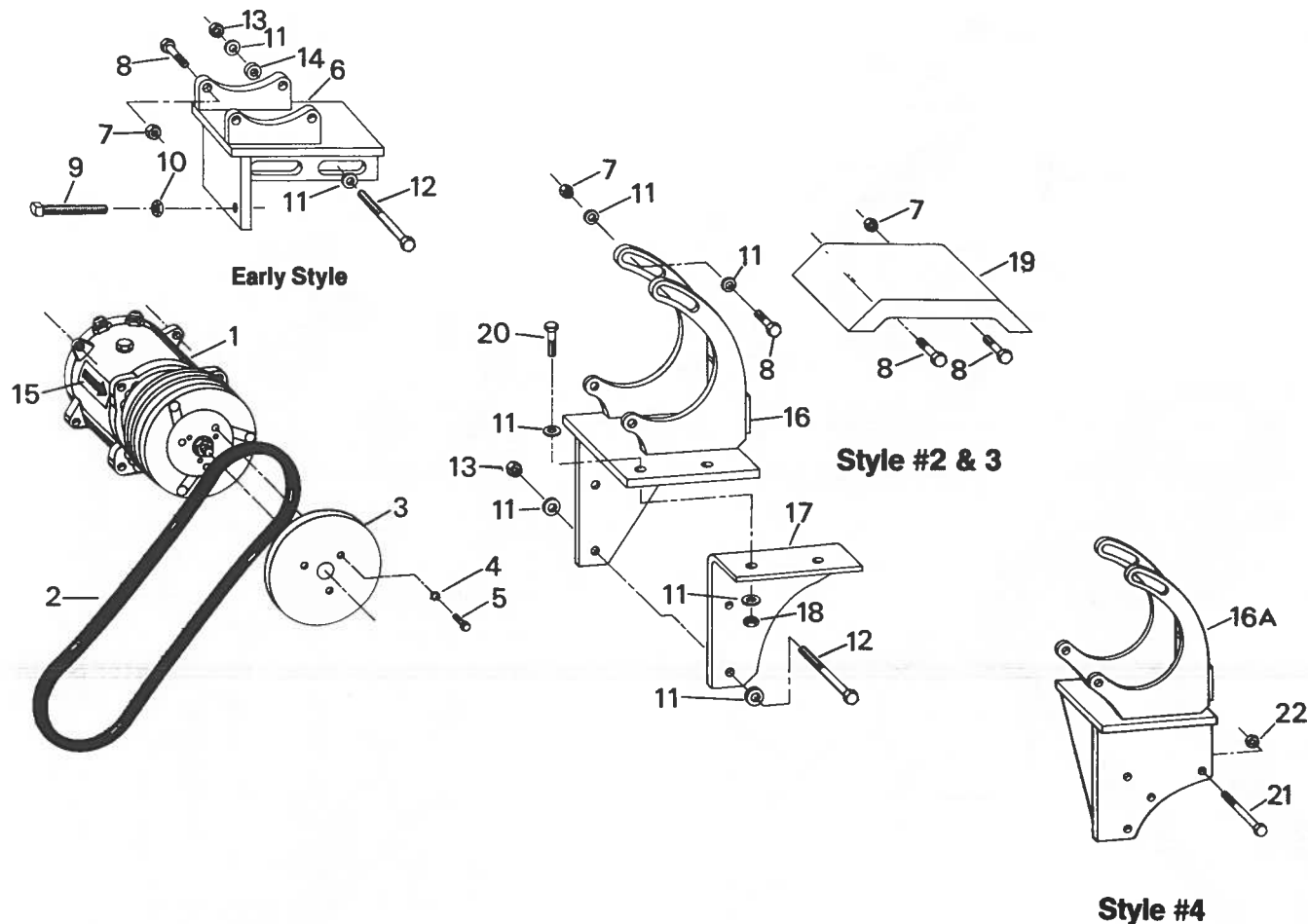


A/C Compressors & Mounts

855 Cummins & 3406 Cat

Ref.	Part No.	Description	Qty.
1		Compressor (see Page 3-15)	1
2	01-6864	Belt (855 Cum)	1
	01-2228	Belt (3406 Cat)	1
3	25-372	Dust Shield (3406 Cat)	1
	25-194	Dust Shield (855 Cummins)	1
4	19-890	Washer	3
5	19-891	Capscrew	3
6	25-1021	Compressor Mount (3406 Cat)	1
7	19-454	Capscrew	4

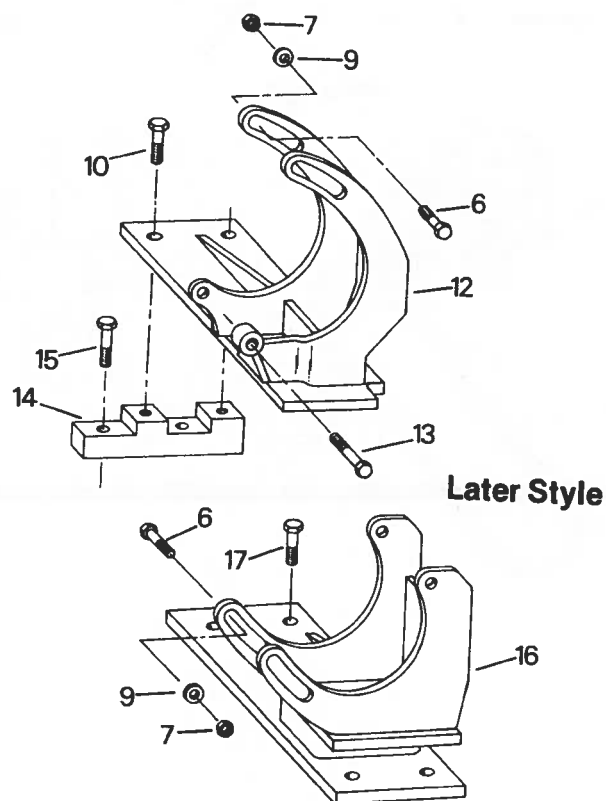
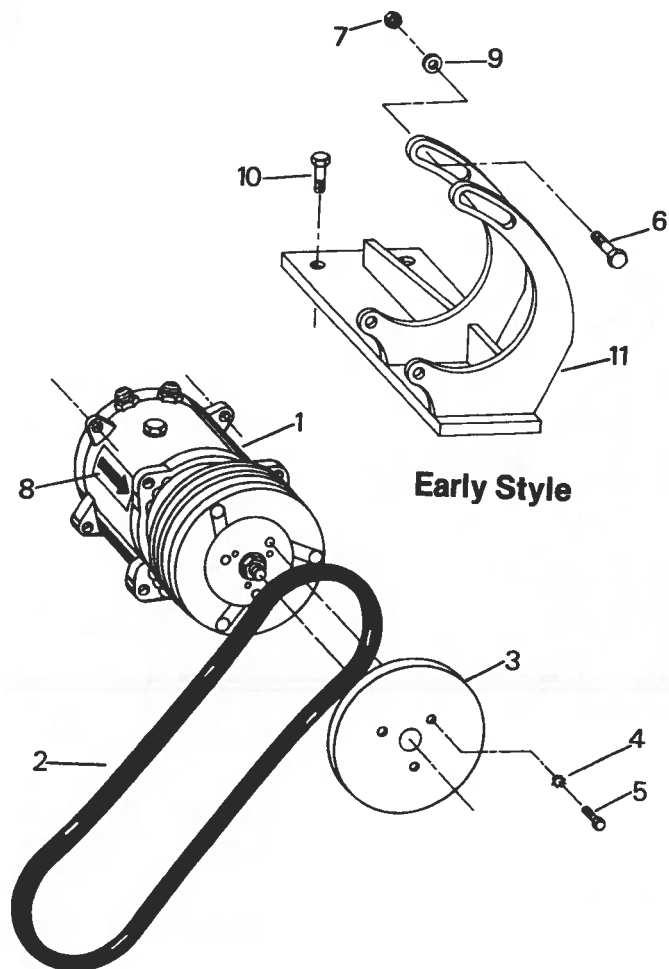
Ref.	Part No.	Description	Qty.
8	19-108	Washer	2
9	19-455	Nut	4
10	19-652	Capscrew	4
11	26-304	Compressor Decal	1
12	19-543	Capscrew	2
13	19-674	Capscrew	1
14	19-711	Washer	1
15	01-4614	Nip Point Shield	1
16	55-209	Compressor Mount (855 Cum)	1



A/C Compressor & Mounts - 3306 Cat

Ref.	Part No.	Description	Qty.
1		Compressor (see Page 3-15)	1
2	06-1428	Belt (D) (used w/standard 26" Fan before SN Break)	1
	90-2151T1	Belt (D) (used w/30" Field installed fan before SN Break)	1
	01-2820	Belt (D) (used w/DI Engine after SN Break)	1
3	25-194	Dust Shield	1
4	19-890	Washer, 1/4	3
5	19-891	Capscrew, 1/4 NC x 1/2	3
6	NAP	Mt, Compressor (service w/kit P/N 35-1078 which contains No. 16, 17 & mt hdwe)	1
7	19-455	Nut, M10	2
8	19-454	Capscrew M10-1.5 x 34 mm	2
9	19-357	Set Screw, 3/8 NC x 3	1
10	19-824	Nut, 3/8 NC	1

Ref.	Part No.	Description	Qty.
11	19-107	Washer, 3/8	AR
12	19-671	Capscrew, 3/8 NC x 3	1
13	19-823	Nut, 3/8 NC	1
14	01-2365	Bushing	1
15	26-304	Decal,	1
16	01-4017	Mt, Comp (style #2) (D)	1
	01-7122	Mt, Comp (style #3) (D)	1
16A	90-2421T1	Mt, Comp (w/DI Engine) (style #4) (D)	1
17	01-4019	Leg. Mt (use w/01-4017)	1
	01-7121	Leg. Mt (use w/01-7122)	1
18	19-078	Nut, 3/8 NC	2
19	01-4027	Guard (use w/16 & 16A)	1
20	19-018	Capscrew, 3/8 NC x 1-1/4	2
21	19-022	Capscrew, 3/8 NC x 2-1/2	4
22	19-087	Nut, 3/8 NC	4

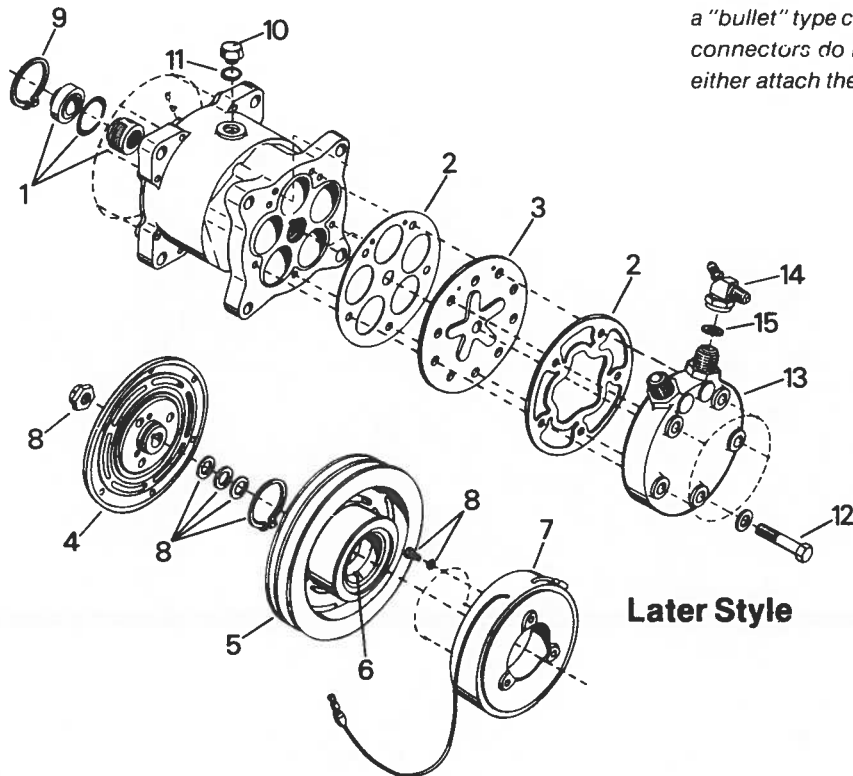


A/C Compressor & Mounts - 903 Cummins

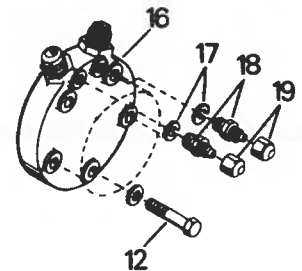
Ref.	Part No.	Description	Qty.
1		Compressor (see Page 3-15)	1
2	45-259	Belt	1
3	25-372	Dust Shield	1
4	19-890	Washer, 1/4	3
5	19-891	Capscrew, 1/4 NC x 1/2	3
6	19-454	Capscrew, M10-1.5 x 34 mm	4
7	19-455	Nut, M/O	4
8	26-304	Decal, Compressor	1
9	19-108	Washer, 7/16	2
10	19-799	Capscrew, 3/8 NC x 1-1/2	4
11	02-1721	Mt, Compressor (D) (Early)	1

Ref.	Part No.	Description	Qty.
12	NAP	Mt, Compressor (Service w/item 16)	1
13	11500882	Capscrew, M10-1.5 x 45 mm	1
14	90-1019T1	Spacer (w/#12 only)	2
15	19-1109	Capscrew, 3/8 NC x 2	4
16	02-1849T2	Mt, Compressor (D) (Later)	1
17	19-679	Capscrew, 3/8 NC x 1	4

NOTE: In the illustration below you will notice that the coil has a "bullet" type connector. When you receive a new coil and the connectors do not match, simply cut the connectors off and either attach the right connectors or solder the wires together.



Later Style



Early Style

Compressor Usage

5-1/4", 855 Cummins & 3306 Cat
6", 903 Cummins & 3406 Cat

A/C Compressor Assembly

Ref.	Part No.	Description	Qty.
1-15	35-1224T91	Compressor Assembly (B) (5-1/4" Clutch) (replaces P/N 01-3769 - Code B)	1
	35-1225T91	Compressor Assembly (B) (6" Clutch) (replaces P/N 01-3768 - Code B)	
1-13	02-1780	Compressor Assembly (5-1/4" Clutch)	1
	02-1781	Compressor Assembly (6" Clutch)	
1	25-230	Seal Kit	1
2	25-231	Gasket Kit	1
3	25-232	Valve Plate (includes Ref. 2)	1
4-6	01-3759	Pulley, Bearing & Plate Assembly (5-1/4" Clutch)	1
	01-3733	Pulley, Bearing & Plate Assembly (6" Clutch)	
4-8	01-3764	Clutch Assembly (5-1/4")	1
	01-3761	Clutch Assembly (6")	
4	NSS	Clutch, Front Plate (5-1/4")	1
	NSS	Clutch, Front Plate (6")	
5	NSS	Pulley (2 groove, 5-1/4")	1
	NSS	Pulley (1 groove, 6")	

Ref.	Part No.	Description	Qty.
6	35-1064	Bearing Kit (incl 01-3760)	1
	01-3760	Dust Shield	1
7	25-237	Coil (5-1/4")	1
	01-2434	Coil (6")	
8	01-2433	Accessory Kit	1
9	01-2435	Snap Ring	1
10	01-2436	Plug	1
11	01-2437	O-Ring	1
12	01-2438	Capscrew	5
13-15	35-1226T91	Head Assembly (Later Style) (replaces P/N 25-233 - Code B)	1
13	02-1870	Head, Flare Type (Later Style)	1
14	02-1778	Adapter (Discharge Port) (includes Ref. 15)	1
	02-1779	Adapter (Suction Port) (includes Ref. 15)	1
15	31-1423	O-Ring	2
16	25-233	Head, Flare Type (Early Style)	1
17	01-2439	Gasket	2
18	01-2440	Service Port	2
19	01-2441	Cap	2

Section 4 - Drive Train

Description	Page
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A305 Axle Assembly	4-47 & 4-48
Differential & Carrier Assy (A305 & S-34)	4-49 & 4-50
S-34 Axle Assembly	4-51 & 4-52
Model 598 Axle Assembly	4-53 to 4-60

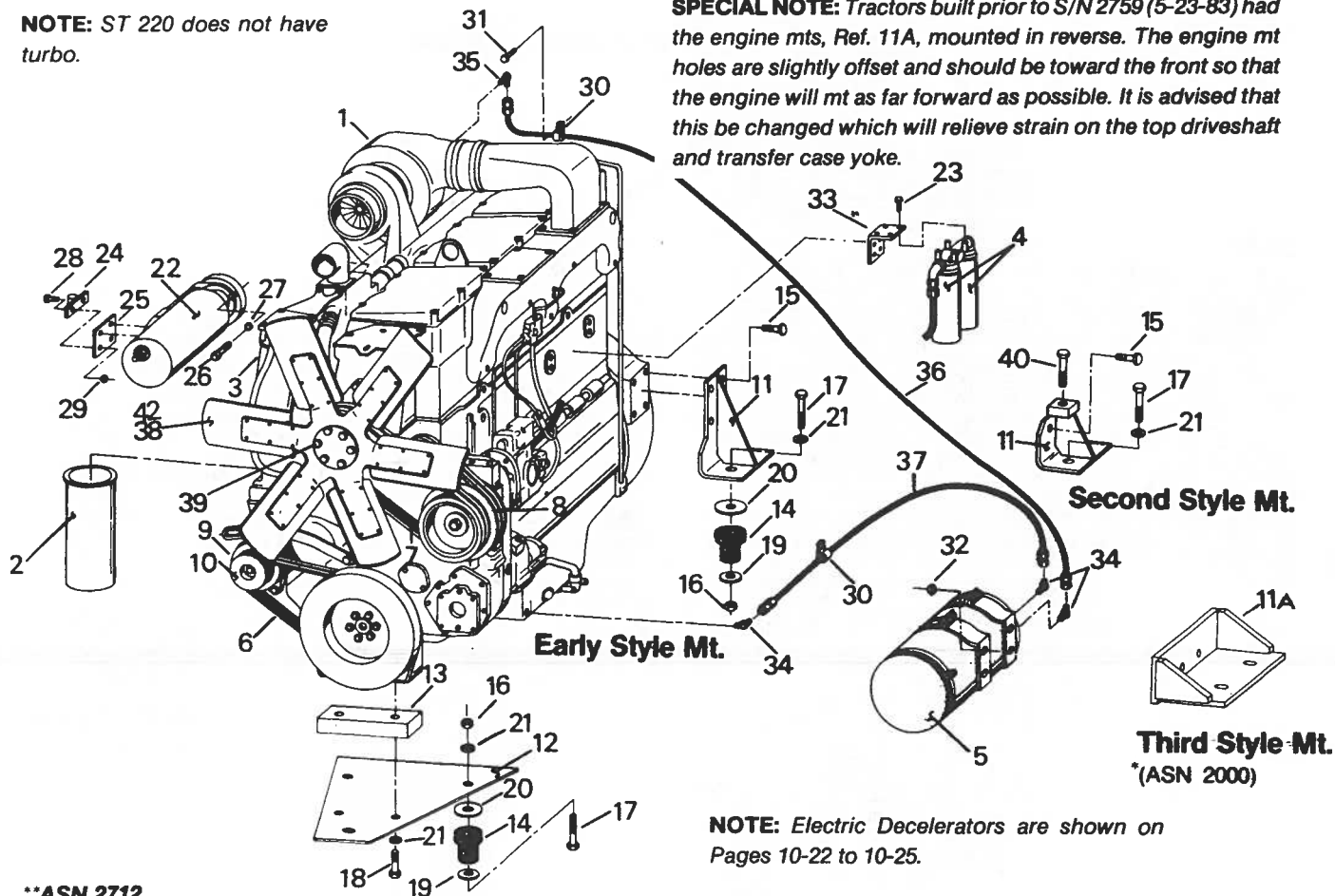
Section 4 - Drive Train

Page	Old P/N	New P/N	Code	Model	SN Break
4-1	06-125	01-7737	D	ST 251CP	106-00291 to 106-00481
4-1	01-7737	02-2864	D	ST 251GP	106-00482
4-1	06-124	01-4638	D	ST 310CP	107-00517 to 107-00751
4-1	01-4638	02-2865	D	ST 310CP	107-00752
4-1	06-1546	90-2383T1	D	ST 220	model discontinued
				ST 251CP	106-00482
	51-288	02-2379	D	ST 310CP	107-00752
		02-2378	D	ST 280	110-00001
4-1	02-2379	90-2727T1	D		all 855 Cummins Powered after S/N 2000
	02-2378	90-2731T1	D		
4-3	01-8774	90-2408T1	D	ST 225	109-00325
4-3	06-121	01-8656	C	ST 250	104-00331 to 104-00331
4-3	01-8656	90-2712T1	D	ST 250	104-00331
4-3	06-122	01-8655	C	ST 270	105-00545
4-3		01-9406	D	ST 225	109-00001
				ST 250	104-00331
				ST 270	105-00545
4-5	06-140	02-1910	D	ST 320	108-00212
				ST 350	139-00021
4-6	22-1087	90-2351T1	D	ST 325	123-01027 (approx)
	19-478	90-2352T1	D	ST 280	111-00001
	22-1084	19-5724	D		
4-18	32-326	01-2631	D	ST 225	109-00001
				ST 250	104-00289
				ST 270	105-00375
4-24	55-181	04-1014	D	all	No S/N Break available, see illustration and compare for usage.
4-24	04-1014	02-3005T1	D	ST 220	model discontinued
	01-2867	01-4252	D	ST 225	109-00001
4-42	01-1902	02-3002T2*	D	ST 250	104-00331
	01-3685	01-4252	D	ST 270	105-00851
				ST 251CP	106-00573
				ST 310CP	107-00811
				ST 320	model discontinued
				ST 325	123-00853
				ST 350	139-00061
				ST 280	110-00001
				ST 280	111-00001

Page	Old P/N	New P/N	Code	Model	SN Break
4-42	02-3002T2*	01-3559T2	D	all	*02-3002T2 was discontinued at S/N 2000 on all models & replaced by 01-3559T2
4-25	01-1631 01-2170	01-2173	D	ST 220 ST 250 ST 270 ST 251 ST 310 ST 320 ST 225 ST 280 ST 280 ST 325	103-00156 104-00192 105-00191 106-00099 107-00210 108-00129 109-00001 110-00001 111-00001 123-00853
4-35	01-371	50-1402T1	D	ST 220 ST 225 ST 250 ST 270 ST 251CP ST 310CP ST 320 ST 325 ST 350 ST 280 ST 280	model discontinued 109-00333 104-00331 105-01024 106-01115 107-01119 model discontinued 123-01174 139-00072 110-00038 111-00001
4-42					See Page 4-A (ref Page 24)
4-51	16-1330 16-1331	01-1420 01-1421	B B	ST 350	*S/N Break not available
4-51	01-1420 01-1421	01-5499 01-5502	B B	ST 350	139-00020
4-51	01-5499 01-5502	01-1420 01-1421	B B	ST 350 ST 310CP	*S/N Break not available Oct, 82
4-51	01-1404	02-1521	D	ST 350	139-00011 & 139-00012
4-51	02-1521	02-1096	D	ST 350	139-00013
4-51	01-1405	02-1098	D	ST 350	139-00011
4-51	01-1401	02-1097	C	ST 350 ST 310CP	139-00013 Oct 82
4-53	16-797 16-798	01-6168 01-6167	C C	ST 310 ST 325 ST 280 ST 280	17-00497 123-00415 110-00001 111-00001

NOTE: ST 220 does not have turbo.

SPECIAL NOTE: Tractors built prior to S/N 2759 (5-23-83) had the engine mts, Ref. 11A, mounted in reverse. The engine mt holes are slightly offset and should be toward the front so that the engine will mt as far forward as possible. It is advised that this be changed which will relieve strain on the top driveshaft and transfer case yoke.



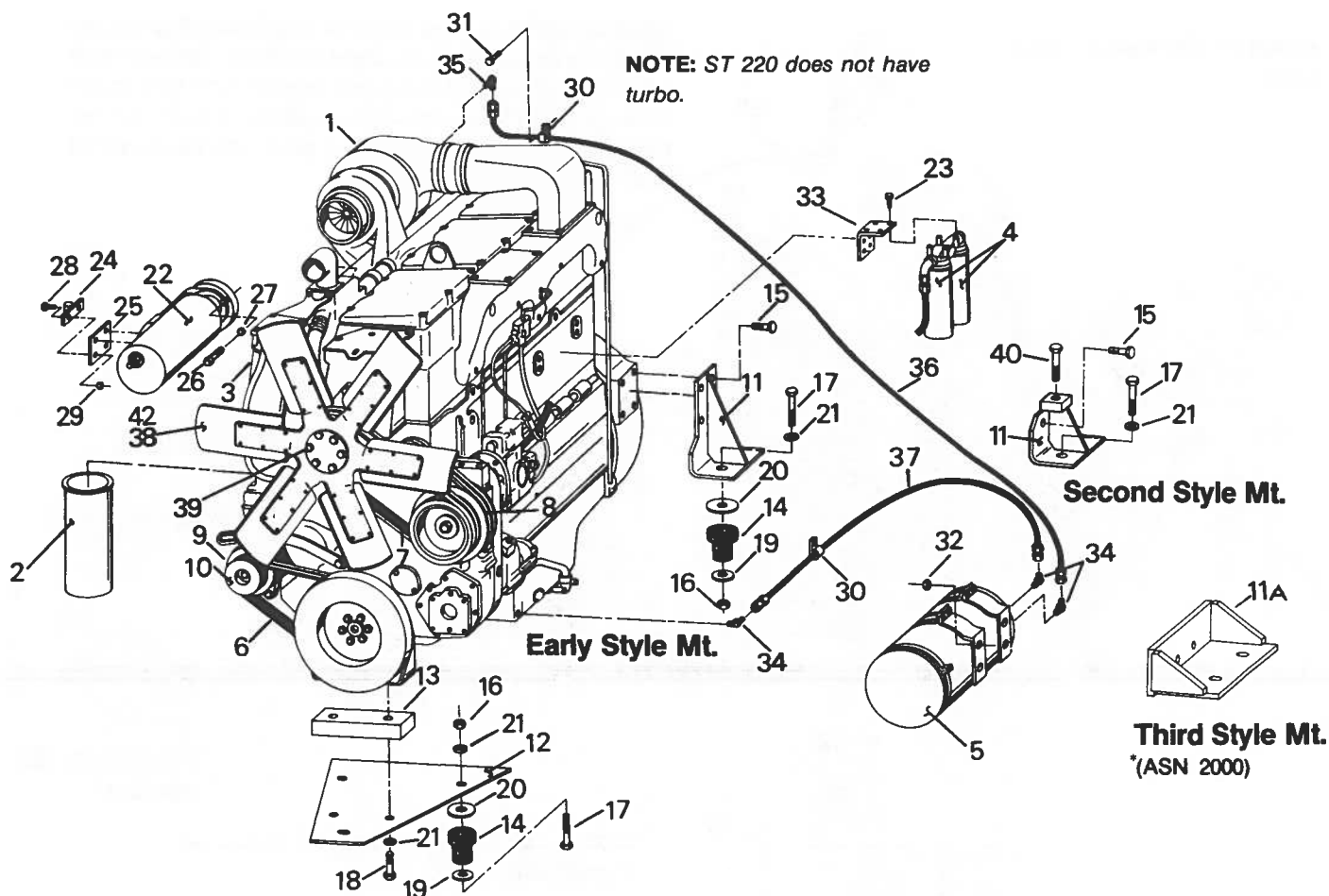
**ASN 2712

Engine & Attaching Parts

Cummins 855

Ref.	Part No.	Description	Qty.
	06-127	Engine NH855 (ST 220)	1
	06-125	Engine NT855 (ST 251) (D)	
	01-7737	Engine NT855 (ST 251CP) (Early) (D)	
	02-2864	Engine NT855 (ST 251CP) (Later) (D) (Big Cam II)	
	06-124	Engine NT855 (ST 310) (D)	
	01-4638	Engine NTA855 (ST 310CP) (Early) (D)	
	02-2865	Engine NTA855 (ST 310CP) (Later) (D) (Big Cam II)	
	90-3951T1	Engine NTA855 (ST 310CP) (Big Cam III)**	
	90-2443T1	Engine NT855C (ST 280)	
	90-3903T1	Engine NT855C (ST 280) (Big Cam III)**	
2	28-018	Oil Filter (Canister Style) (w/06-099 O-Ring)	1
	01-2187	Spin On Oil Filter (Kit P/N 35-1103 will convert 28-018 to Spin On)	1

Ref.	Part No.	Description	Qty.
3	28-031	Water Filter	1
	01-7834	Precharge Water Filter (28-1000) (H) (use when flushing system & adding new coolant)	1
4	28-035	Fuel Filter Element	2
5		By-Pass Lube Filter (see Page 4-8)	
6	90-1375T1	2 Belt Set, Alt(06-1582) (E)	1
7	06-1580	2 Belt Set, Fan (all except below)	1
	06-1547	2 Belt Set, Fan (ST 310CP S/N 517 to 752)	1
8	06-1546	2 Belt Set, Water Pump (D)	1
	90-2383T1	Belt (1), Water Pump (D)	1
9		Alternator (see Pages 2-12 to 2-13)	
10	22-741	Pulley	1
11	51-288	Motor Mt (Early) (D)	2
	02-2379	Motor Mt RH (Second) (D)	1
	02-2378	Motor Mt LH (Second) (D)	1
11A	90-2727T1	Motor Mt* (LH (Third) (D)	1
	90-2731T1	Motor Mt* RH (Third) (D)	1

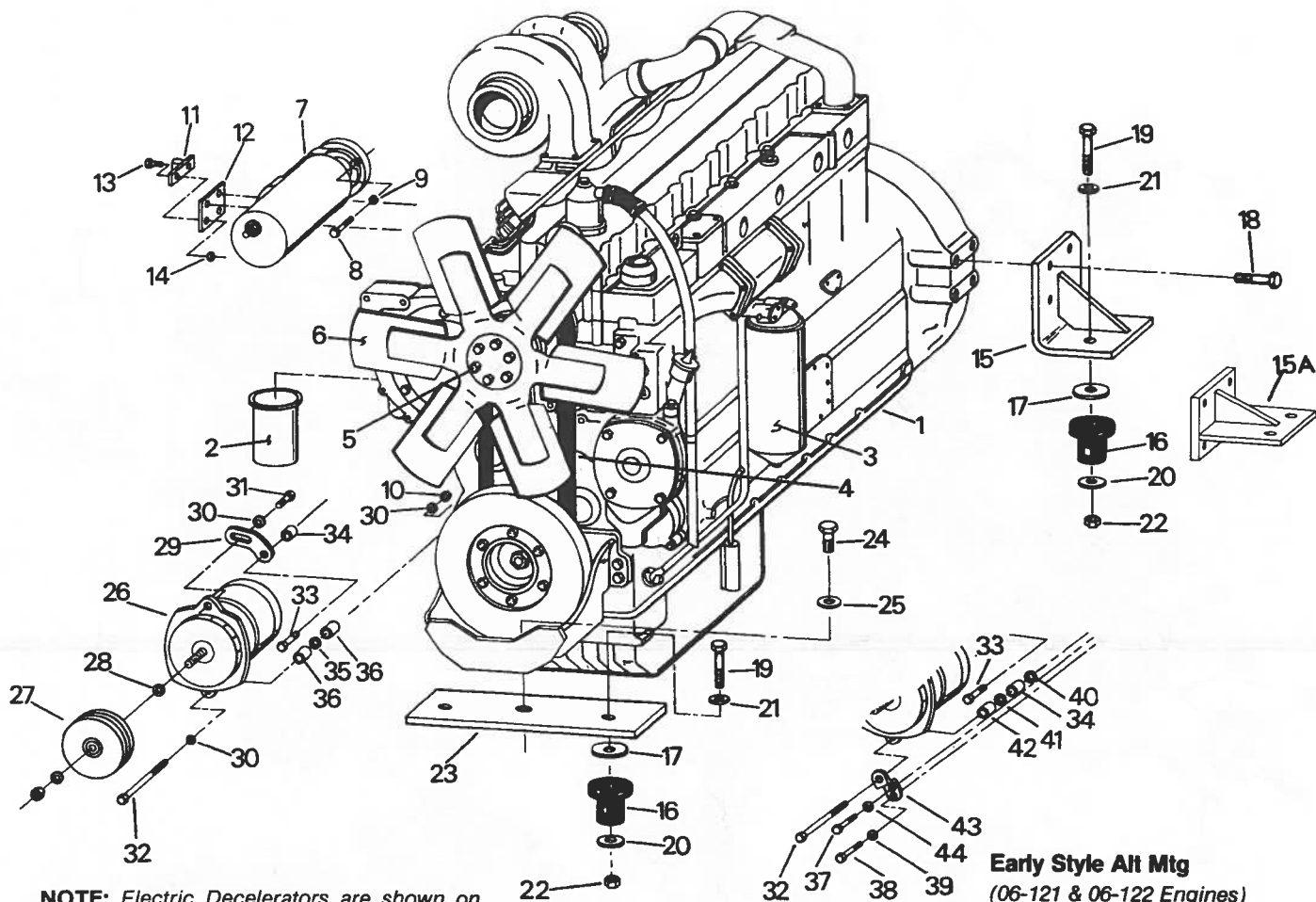


Engine & Attaching Parts

Cummins 855

Ref.	Part No.	Description	Qty.
12	51-285	Motor Mt Front	1
13	06-1595	Bar	1
14	24-231	Rubber Mount	7
15	19-059	Capscrew	8
16	19-222	Nut	9
17	19-256	Capscrew	7
18	19-278	Capscrew	2
19	19-408	Washer	7
20	51-128	Washer, Rubber Mount	7
21	19-111	Washer	11
22	22-1148	Starter	1
23	19-017	Capscrew	4
24	20-1608T1	Solenoid (06-1496) (B)	1
25	55-185	Bracket	1
26	19-907	Capscrew	3
27	19-912	Washer	3
28	19-001	Capscrew	2
29	19-076	Nut	2
30	32-310	Clamp	2
31	19-633	Capscrew	1
32	19-078	Nut	4

Ref.	Part No.	Description	Qty.
33		Bracket (Cummins Part)	
34	31-528	Adapter	3
35	31-508	Adapter	1
36	01-421	Hose	1
37	31-1202	Hose	1
38	01-4304	Fan (28" w/3-1/2" Bolt Circle) (ST 220 & ST 251)	1
	06-1597	Fan (32" w/5-1/2" Bolt Circle) (ST 251CP, ST 310 & ST 310CP except below)	
	01-9437	Fan (32" w/3-1/2" Bolt Circle) (ST 310CP SN 517 to 752)	
39	454493	Capscrew (For Fan 06-1597)	6
	214265	Capscrew (For Fans 01-4304 & 01-9437)	6
40	19-762	Capscrew	2
41	9427697	Plug (in bottom of Flywheel Hsg)	1
	02-2517	Foam (in bottom of Flywheel Hsg)	1
42	90-3569T1	Fan Spacer (not shown)	1

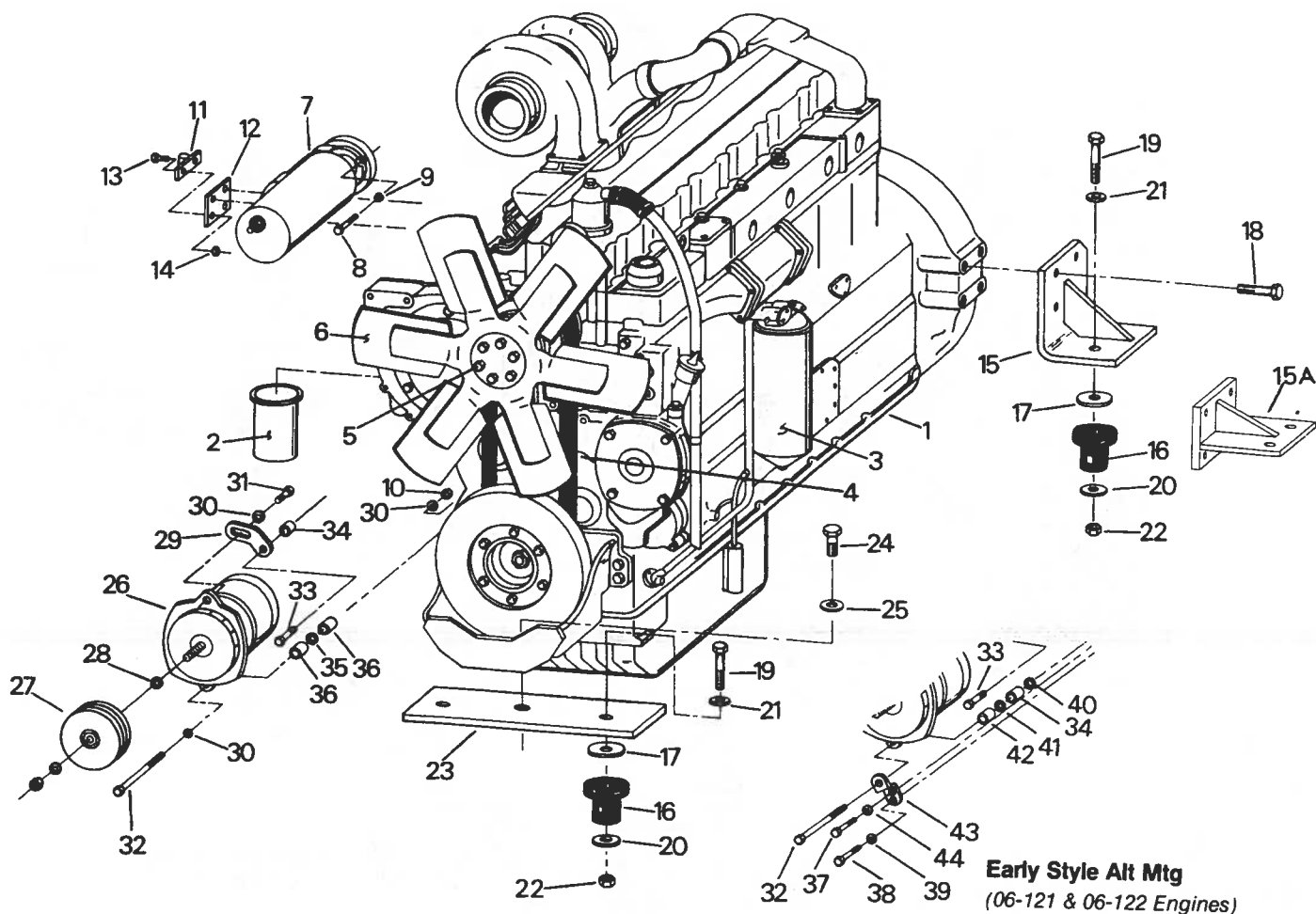


Engine & Attaching Parts

Cat 3306

Ref.	Part No.	Description	Qty.
1	01-8774	Engine, 3306T (ST 225) (D)	1
	90-2408T1	Engine, 3306DIT (ST 225) (D)	
	06-121	Engine, 3306T (ST 250) (C)	
	01-8656	Engine, 3306T (ST 250) (C)	
	90-2712T1	Engine, 3306DITA (ST 250) (D)	
	06-122	Engine, 3306TA (ST 270) (C)	
	01-8655	Engine, 3306TA (ST 270) (C)	
2	28-025	Fuel Filter	1
3	28-036	Oil Filter	1
4	06-135	3 Belt Set, fan & alt (w/26" Fan)*	1
	90-1502T1	3 Belt Set, fan & alt (w/30" Fan)*	
5	19-657	Capscrew	6
6	56-011	Fan, 26"	1
	90-2338T1	Fan, 30"	
7		Starter (see Page 2-9)	1
8	19-907	Capscrew	3
9	19-912	Washer	3
10	19-826	Nut	1
11	20-1608T1	Solenoid (06-1496) (B) (Mounted on Cab front on later models)	1
12	55-185	Bracket	1
13	19-001	Capscrew	2

Ref.	Part No.	Description	Qty.
14	19-076	Nut	2
15	51-127	Mount, Engine (BSN 2000)	2
15A	90-4384T1	Mount, Engine (LH) (ASN 2000)	1
	90-4385T1	Mount, Engine (RH) (ASN 2000)	1
		(Repl 01-5668T1) (E) (see Special Note on Page 4-4)	2
16	24-231	Mount, Rubber	6
17	51-128	Washer	6
18	19-045	Capscrew	8
19	19-256	Capscrew	6
20	19-408	Washer	6
21	19-111	Washer	6
22	19-222	Nut	6
23	01-9406	Plate (D) (BSN 2000) (not on 06-121 & 06-122 engine)	1
	90-4386T1	Plate (ASN 2000) (see Special Note on page 4-4)	1
24	223449	Capscrew	1
25	19-5575	Washer	1
26		Alternator (see Pages 2-12 to 2-13)	1
27	22-746	Pulley (for Delco Alt)	1
	02-1980	Pulley (For Neihoff Alt)	1



Engine & Attaching Parts

Cat 3306

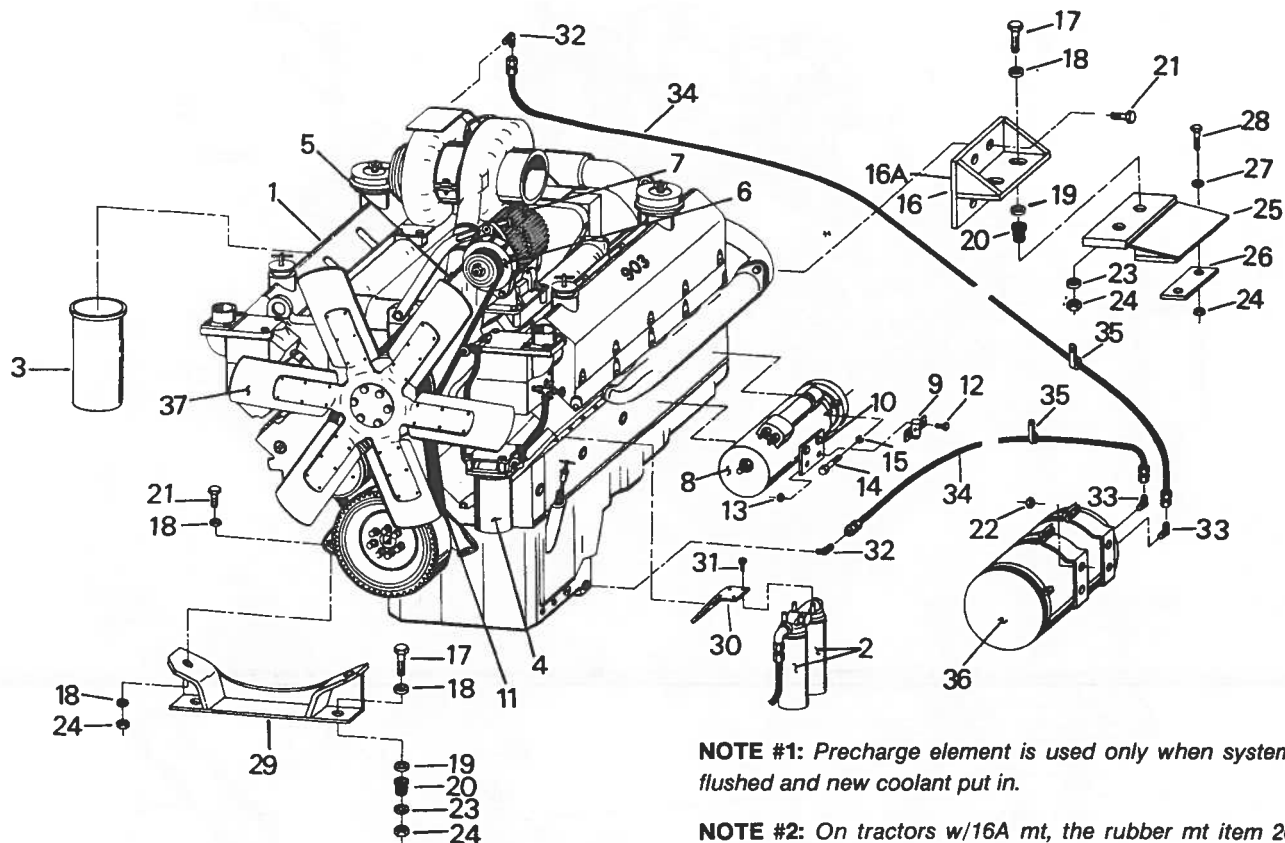
Ref.	Part No.	Description	Qty.
28	19-944	Washer	1
29	06-1483	Strap	1
30	19-109	Washer	3
31	19-821	Capscrew	1
32	19-942	Capscrew	1
33	19-909	Capscrew	1
34	01-7146	Spacer	1
	06-137	Spacer (on early style)	2
35	01-7144	Spacer	1

SPECIAL NOTE: Tractors between S/N 2000 & 2759 do not have the new mounts, Refs. 15A and 23. If replacement is needed on these tractors, these mounts must be ordered as a set (both of Ref. 15A & 90-4386T1 in Ref. 23). This will move the engine forward slightly which will ease strain on the top driveshaft and the transfer case yoke.

Ref.	Part No.	Description	Qty.
36	01-7145	Spacer	2
37	19-940	Capscrew	1
38	19-654	Capscrew	1
39	19-700	Washer	1
40	19-943	Washer	1
41	19-463	Washer	1
42	06-138	Spacer	1
43	06-1485	Bracket	1
44	19-107	Washer	1

***NOTE:** ST 225 SN 109-00328 & ST 250, SN 104-01000 & up have 30" Fan as standard & use Belt Set 90-1502T1, all other tractors use 06-135 unless the 35-1305T91 30" Fan Kit has been installed.

35-1305T91 30" Fan Kit for increased cooling, includes Fan, Radiator Shroud, Belts, Pulley & necessary mt hdwe. This kit will not fit ST 250 Prior to SN 104-00331 nor ST 270 Prior to SN 105-00544.



NOTE: Electric Decelerators are shown on Pages 10-22 to 10-25.

(Kit P/N 35-1103 will convert 28-018 to spin on)

NOTE #1: Precharge element is used only when system is flushed and new coolant put in.

NOTE #2: On tractors w/16A mt, the rubber mt item 20 is installed w/the flange side down & item 19 is not used.

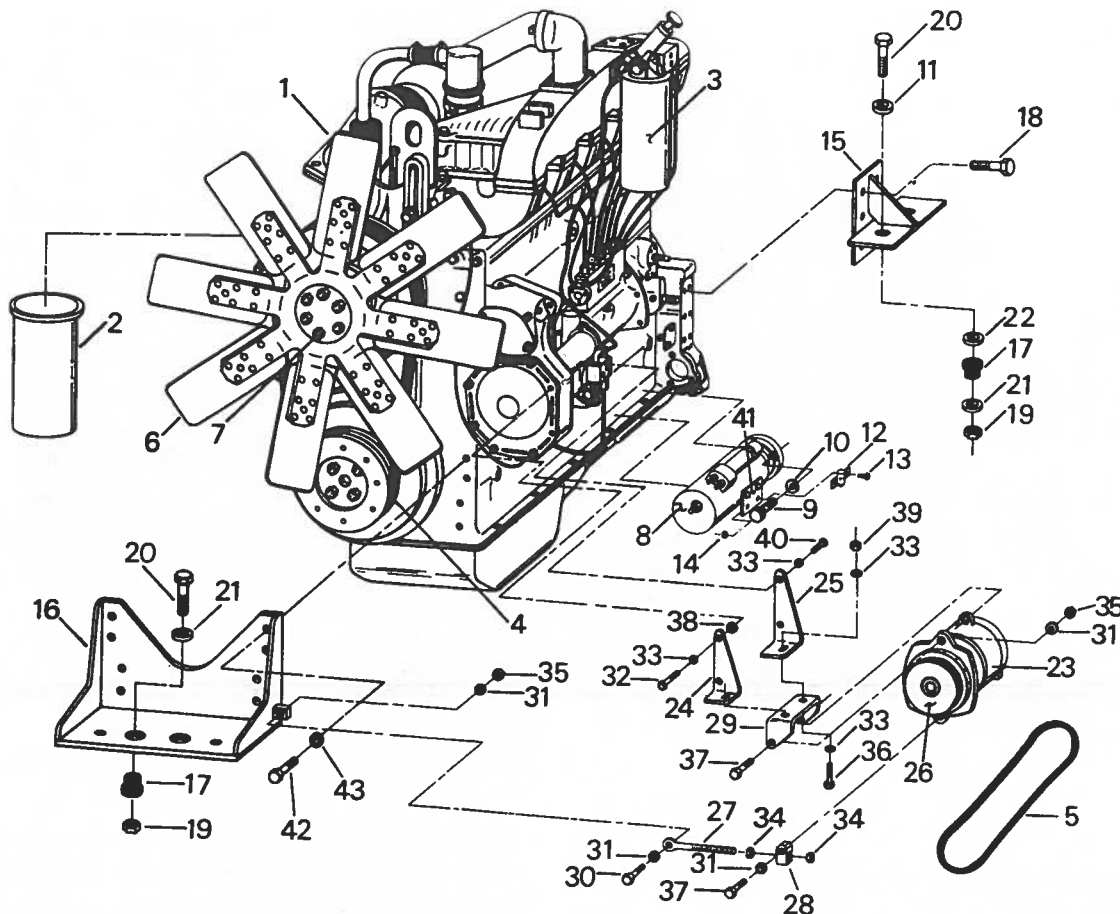
NOTE #3: The fan, Ref. 37, should be changed to the new 90-3824T1. The Bolts 442734 are needed also.

Engine & Attaching Parts

Cummins 903

Ref.	Part No.	Description	Qty.
1	06-126	Engine, VT903-C320 (ST 320)	1
	01-8102	Engine, VT903-C320 (ST 350)	
2	28-035	Fuel Filter	2
3	28-018	Oil Filter, (Canister Type w/06-099 O-ring	1
	01-2187	Oil Filter, (Spin on)	1
4	28-031	Water Filter (see Note #1)	1
	01-7834	Water Filter (Pre-charged)	1
5	06-140	2 Belt Set, alt (D)	1
	02-1910	2 Belt Set, alt (D)	1
6	22-819	Pulley, alt	1
7		Alt (see Pages 2-12 & 2-13)	1
8		Starter (see Page 2-9)	1
9	20-1608T1	Solenoid (06-1496) (B)	1
10	55-185	Bracket	1
11	06-1581	3 Belt Set, Fan	1
12	19-001	Capscrew, 1/4 NC x 3/4	2
13	19-076	Nut, 1/4 NC	2
14	19-907	Capscrew, 5/8 NC x 2	3
15	19-912	Washer	3
16	51-457	Engine Mt. Rear (BSN 2000)	2
16A	01-5680T1	Engine Mt. Rear (ASN 2000)	2
17	19-256	Capscrew, 5/8 NC x 4	6
18	19-111	Washer, 5/8	10

Ref.	Part No.	Description	Qty.
19	51-128	Washer	6
20	24-231	Rubber Mt (see Note #2)	6
21	19-057	Capscrew, 5/8 NC x 1-3/4	10
22	19-078	Nut, 3/8 NC	4
23	19-408	Washer, 21/32	6
24	19-222	Nut, 5/8 NC	12
25	51-462	Engine Brkt RH (BSN 2000)	1
	51-467	Engine Brkt, LH (BSN 2000)	1
25A	01-5667T1	Engine Brkt (ASN 2000)	2
26	51-468	Plate, Support	2
27	51-469	Spacer, Motor Mount	4
28	19-494	Capscrew, 5/8 NC x 3	4
29	51-470	Motor Mount, Front	1
30	45-264	Bracket, Fuel Filter	1
31	19-017	Capscrew, 3/8 NC x 1	4
32	31-269	Adapter	2
33	31-528	Adapter	2
34	01-263	Hose Assembly	2
35	01-2188	Clip	2
36		By-Pass Lube Filter (see Page 4-8)	
37	90-3824T1	Fan 06-1597 (F) (Note 3)	1
	442734	Capscrew, 1/2 UNC x 4 GR8 (For Fan)	6



NOTE: Electric Decelerators are shown on
Pages 10-22 to 10-25.

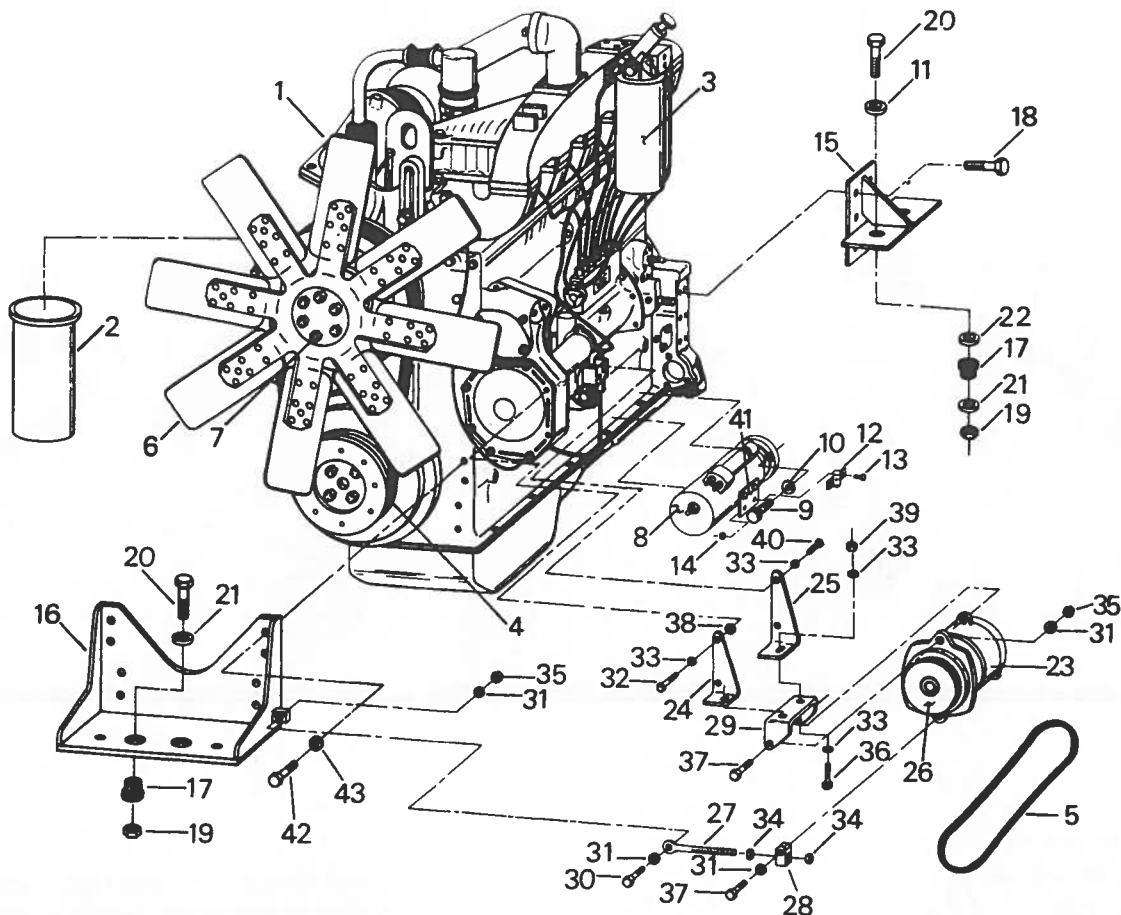
Engine & Attaching Parts

Cat 3406

Ref.	Part No.	Description	Qty.
1	90-2176T1	Engine, 3406 DIT (ST 280)	1
	90-1059T1	Engine, 3406 DIT (ST 325) (B)	1
2	01-2335	Oil Filter Element	1
3	01-2334	Fuel Filter Element	1
4	01-2059	2 Belt Set, Fan	1
5	01-2228	Belt (1), Alt & Air	2
6	06-1597	Fan	1
7	19-821	Capscrew	6
8		Starter (see Page 2-9)	
9	19-907	Capscrew	3
10	19-912	Washer	3
11	19-111	Washer	4
12	20-1608T1	Solenoid (06-1496) (B)	1
13	19-001	Capscrew	2
14	19-076	Nut	2
15	06-1588	Engine Mt LH (BSN 2000)*	1
	06-1589	Engine Mt RH (BSN 2000)*	1
	90-4387T1	Engine Mt LH (ASN 2000)*	1
	90-4388T1	Engine Mt RH (ASN 2000)*	1

***SPECIAL NOTE:** Between S/N 2000 & 2759 the earlier mts were used which can cause strain on the top driveshaft and yoke on the transfer case. If a problem, or replacement is needed, on tractors in this serial number range, both of the later mts plus the front support (Ref. 37 on page 6-2) should be ordered.

Ref.	Part No.	Description	Qty.
16	06-1594	Engine Mt Front	1
17	24-231	Rubber Mt	6
18	19-057	Capscrew	12
19	19-222	Nut	10
20	19-256	Capscrew	6
21	19-408	Washer	6
22	51-128	Washer	4
23		Alt (see Pages 2-12 & 2-13)	
24	22-1087	Bracket, Alt Mt (D)	1
	90-2351T1	Bracket, Alt Mt (D)	
25	22-1088	Bracket, Alt Mt	1
26	22-1085	Pulley (For Delco Alt)	1
	02-1979	Pulley (For Niehoff Alt)	1
27	22-1086T1	Rod, Alt Adj (22-1086) (B)	1
28	22-1083	Block, Alt Adj	1
29	22-1089	Bracket, Alt Mt	1
30	19-680	Capscrew	1
31	19-109	Washer	5
32	19-478	Capscrew	2
	90-2352T1	Nut (D)	2
33	19-107	Washer	8

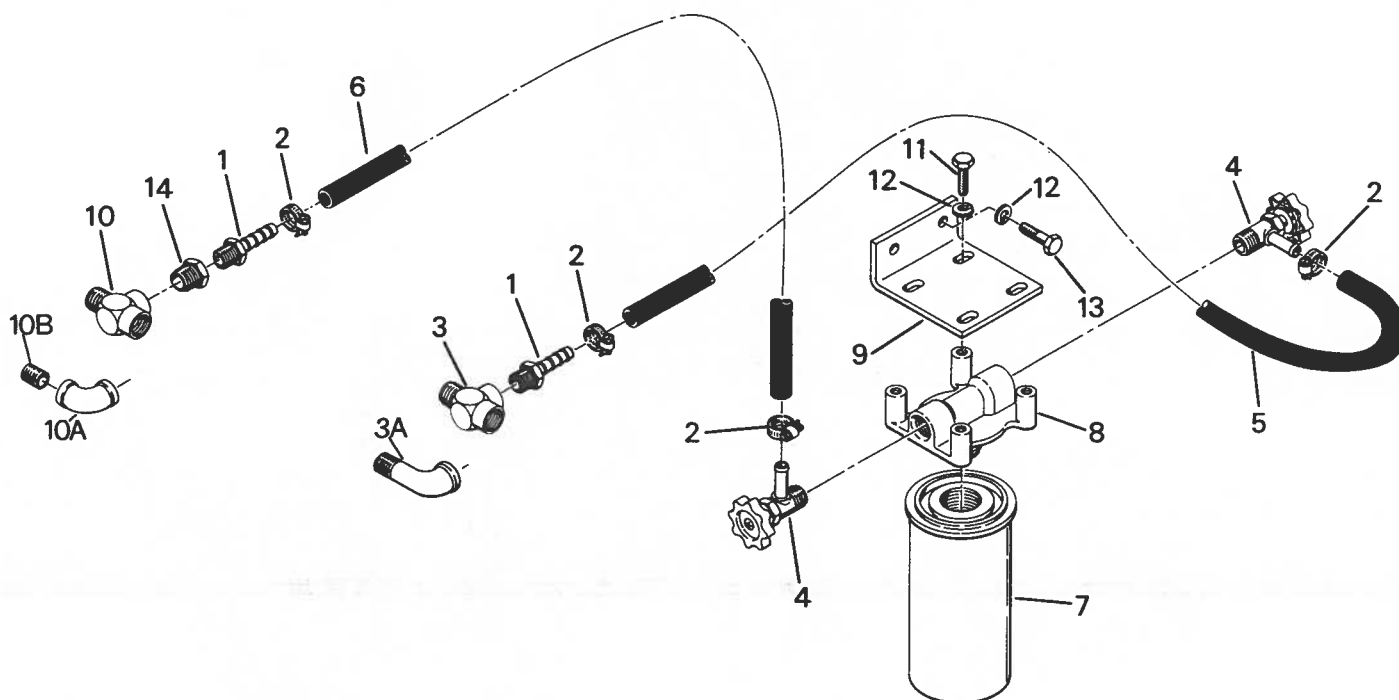


NOTE: Electric Decelerators are shown on
Pages 10-22 to 10-25.

Engine & Attaching Parts

Cat 3406

Ref.	Part No.	Description	Qty.	Ref.	Part No.	Description	Qty.
34	19-1060	Nut	2	39	19-823	Nut	2
35	19-826	Nut	3	40	19-799	Capscrew	2
36	19-652	Capscrew	2	41	55-185	Bracket	1
37	19-909	Capscrew	3	42-43		Cat Parts	8
38	22-1084	Spacer (D)	2				
	19-5724	Spacer (D)	2				



Note #1: The precharge element should be used only after flushing the system & adding new coolant.

* Used on tractors w/coolant exchange system

** Used on tractors w/o coolant exchange system

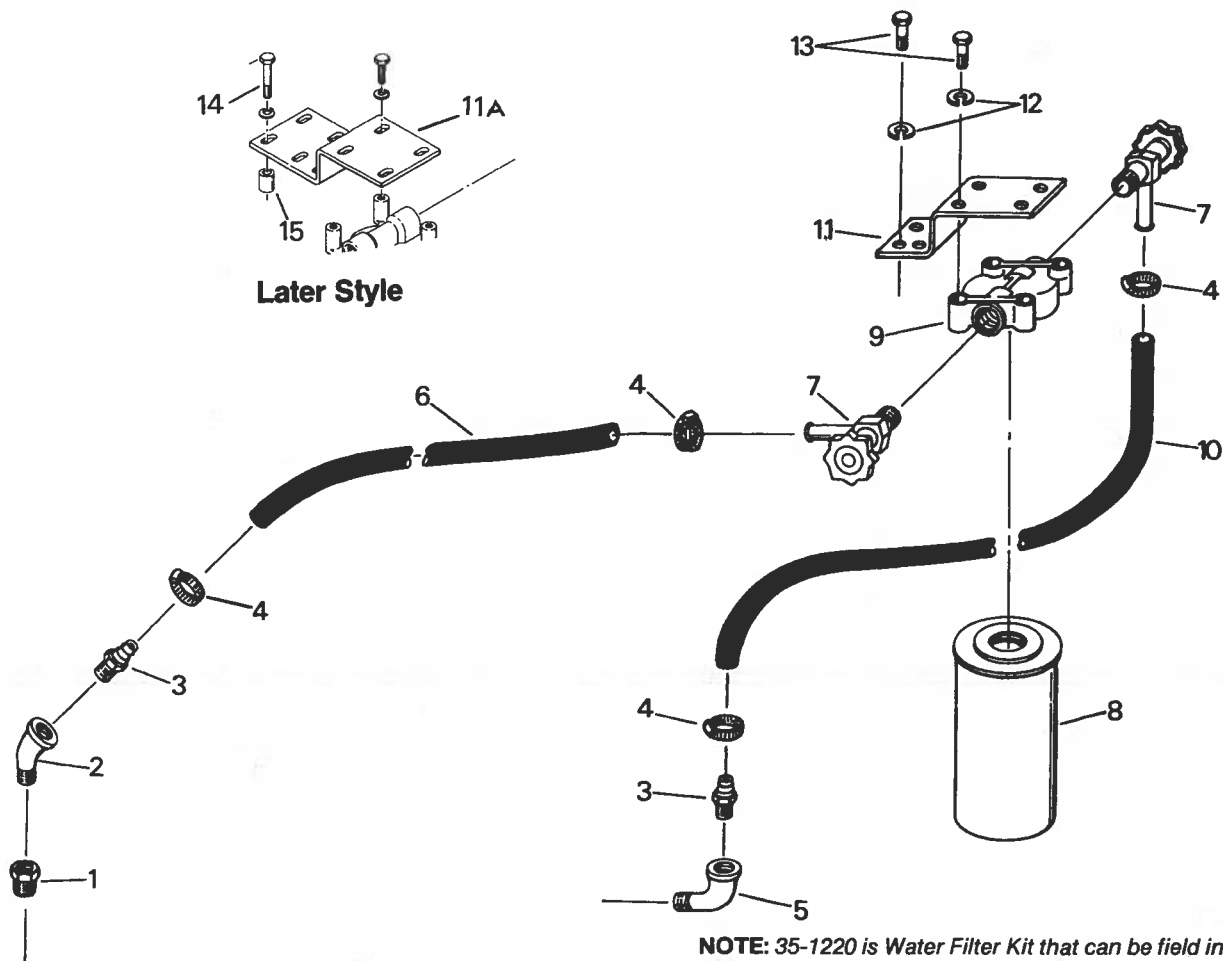
Water Filter & Mounting

Cat 3306 (after 10-1-82) (ASN 2501)

Ref.	Part No.	Description	Qty.
1	31-218	Fitting*	2
	31-137	Fitting**	
2	32-039	Clamp	4
3	31-529	Adapter*	1
3A	31-219	Street Elbow**	1
4	01-1610	Valve Assy	2
5	31-1208	Hose	1
6	31-2198	Hose*	1
	31-1691	Hose**	
7	28-031	Element (see Note #1)	1
	01-7834	Element (Precharged)	1

Ref.	Part No.	Description	Qty.
8	01-1612	Water Filter Base	1
9	90-3550T1	Filter Bracket	1
10	31-1853	Adapter*	1
10A	31-041	Elbow**	1
10B	31-160	Nipple**	1
11	19-017	Capscrew	4
12	19-117	Lock Washer	6
13	19-018	Capscrew	2
14	31-178	Adapter	14

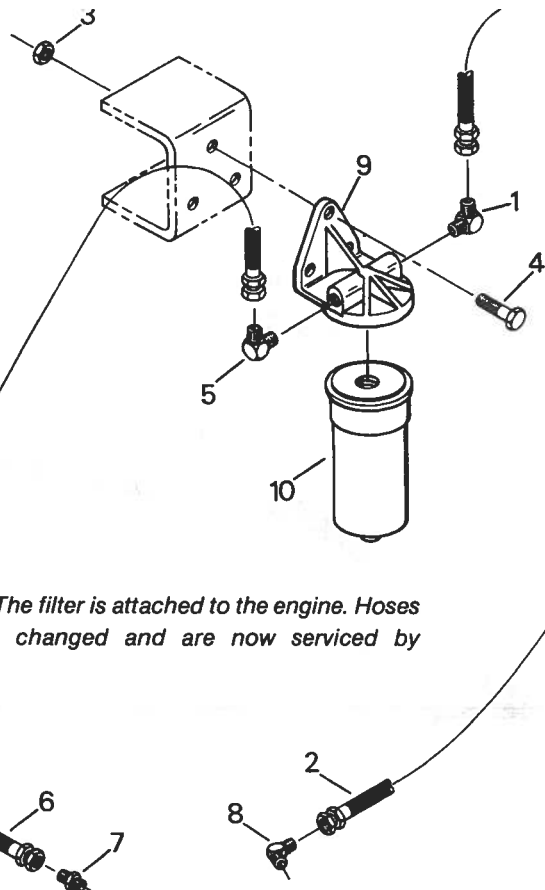
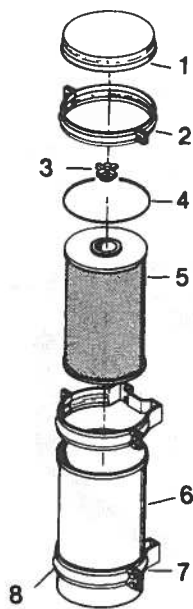
Kit #35-1444T91, which contains the above parts used w/coolant exchange system, can be ordered for field installation on earlier tractors.



Water Filter & Mounting - 3406 Cat

Ref.	Part No.	Description	Qty.
1	31-178	Reducer	1
2	31-076	Street Elbow	1
3	31-218	Barbed Fitting	2
4	32-029	Clamp	4
5	31-219	Street Elbow	1
6	31-1306	Hose	1
7	01-1610	Valve	2
8	28-031	Element (see Note #1)	AR
	01-7834	Element (Pre-Charged)	
Note #1: The precharge element should be used only after flushing the system & adding new coolant.			

Ref.	Part No.	Description	Qty.
9	01-1612	Filter Base	1
10	32-203	Hose	1
11	01-7746	Bracket (see Note Below)	1
11A	90-2897T1	Bracket (see Note Below)	1
12	19-117	Lock Washer	8
13	19-017	Capscrew	8
14	19-020	Capscrew	4
15	04-118	Spacer	4
NOTE: No. 11A came into use June 82 and can be used as a replacement for No. 11.			



***ASN 2712 (4-6-83)** The filter is attached to the engine. Hoses and adapters were changed and are now serviced by Cummins.

Spin On Conversion Kits

35-1309T91 (For 903 Cummins)

35-1308T91 (For 855 Cummins)

*855 Engine

**903 Engine

By-Pass Lube Filters - Cummins Engines

Cartridge Style

Spin On Style

Ref.	Part No.	Description	Qty.
1-8	01-5568	Assy., Lube Filter	1
1	01-5573	Cover	1
2	01-5574	Strap	1
3	02-1557	Upper Support Assy.	1
4	06-098	O-Ring	1
5	28-028	Filter Element	1
6	01-5570	Shell Assy.	1
7	01-5572	Bracket, Mount	2
8	90-2231T1	Clamp	2

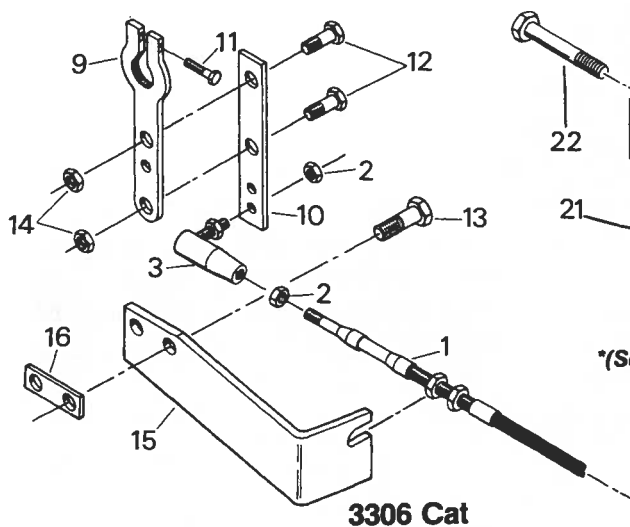
Ref.	Part No.	Description	Qty.
1	31-269	Elbow*	1
	31-268	Fitting**	
2	31-1075	Hose*	1
	31-1202	Hose**	
3	19-080	Nut	3
4	19-033	Capscrew	3
5	31-269	Elbow*	1
	31-1076	Elbow**	
6	31-1528	Hose*	1
	31-1075	Hose**	
7	31-375	Fitting*	1
	31-1076	Elbow**	
8	31-662	Elbow*	1
	31-269	Elbow**	
9	90-1157T1	Filter Head	1
10	90-1158T1	Filter Element	1

March, 1984

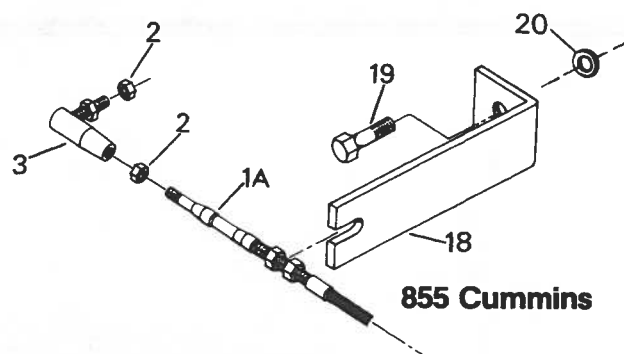
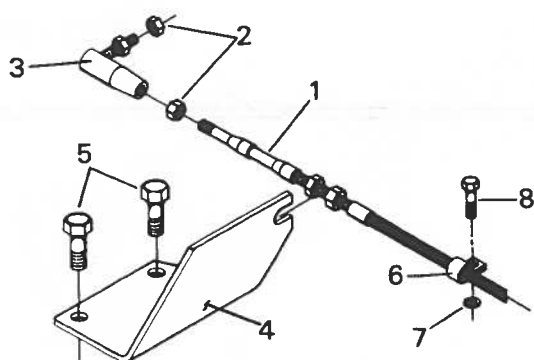
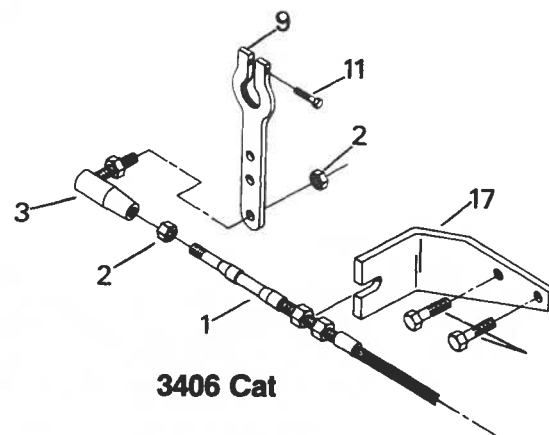
37-071 R5

BC III, C III & P III Parts

Printed in U.S.A.



*(See Note #1)



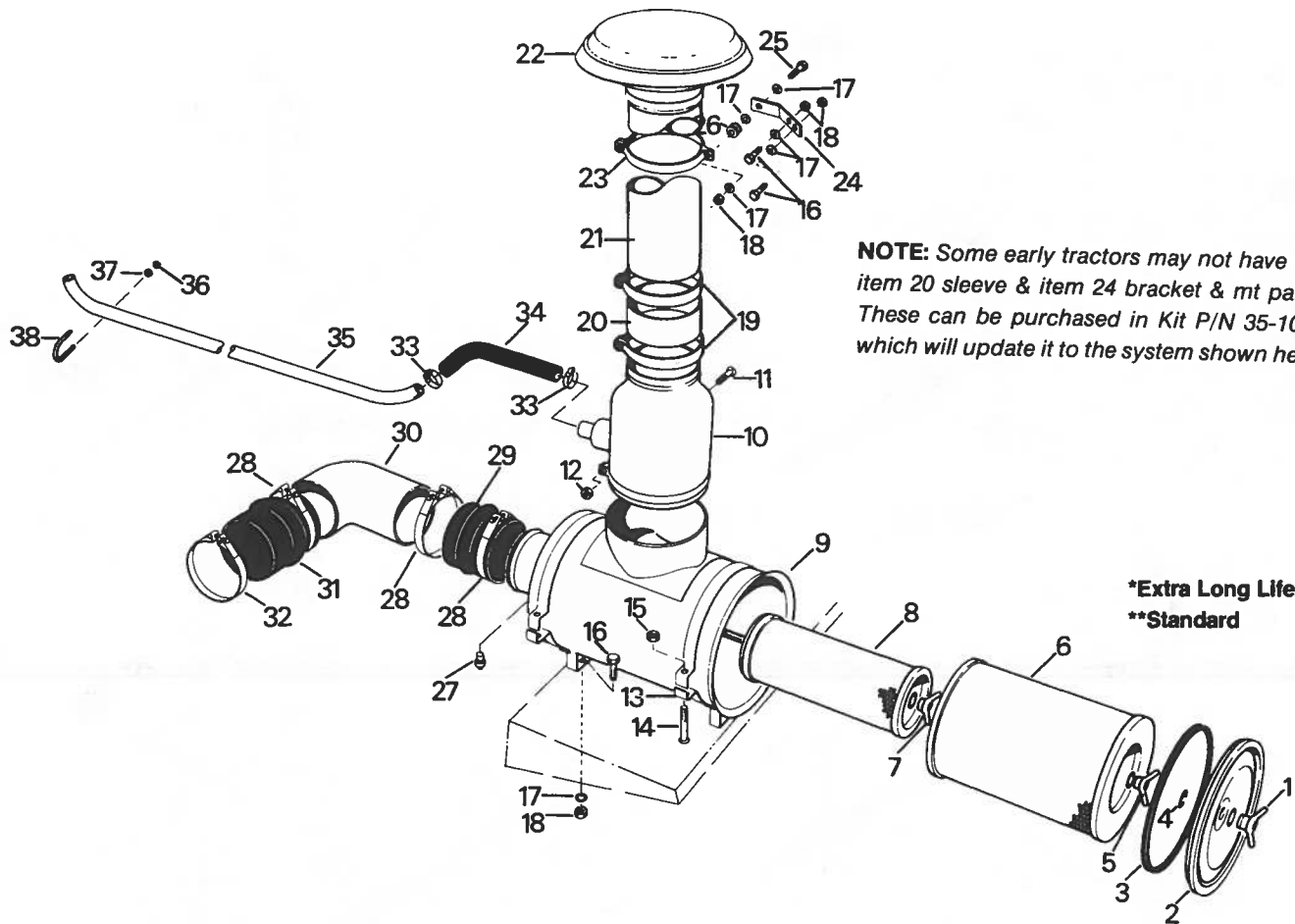
NOTE: See Pages 10-22 to 10-25 for Electric Decelerators.

Throttle Controls - Engine (w/o Electric Decelerator)

Ref.	Part No.	Description	Qty.
1	29-058	Cable, Throttle	1
1A	01-4481	Cable, Throttle (855)	1
2	19-308	Nut	4
3	06-1431	Ball Joint	2
4	29-1005	Bracket, Throttle Cable	1
5	19-679	Capscrew	2
6	22-1109	Clip	1
7	19-107	Washer	1
8	NAP	Capscrew (supplied on engine)	1
9	04-580	Lever, Throttle (See Ref. 21)	1
10	04-587	Throttle Arm (See Ref. 21)	1

Ref.	Part No.	Description	Qty.
11	19-954	Machine Screw	1
12	19-001	Capscrew	2
13	19-654	Capscrew	2
14	19-076	Nut	2
15	04-586	Bracket, Throttle Cable	1
*	60-3084T1	Bracket, Throttle Cable	
16	04-588	Spacer	1
17	04-1018	Bracket Throttle Cable	1
18	55-169	Bracket	1
19	19-683	Capscrew	2
20	19-538	Washer (used only after Feb 80)	1
21*	60-3085T1	Lever, Throttle (repl Ref. 9 & 10) (B)	1
22*	19-550	Capscrew	1

*NOTE #1: Tractors w/3306 engine built after 10-1-82 (SN 2501) that do not have the Electric Decelerator, will be using the later style bracket & throttle lever marked w/ *. These parts can also be used as replacements for the earlier style.

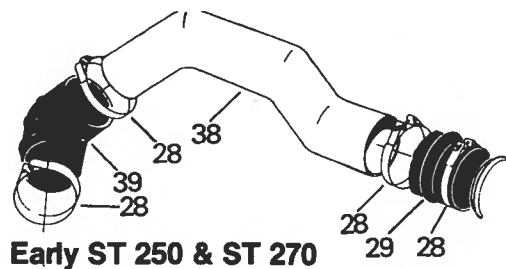


Air Cleaner & Intake

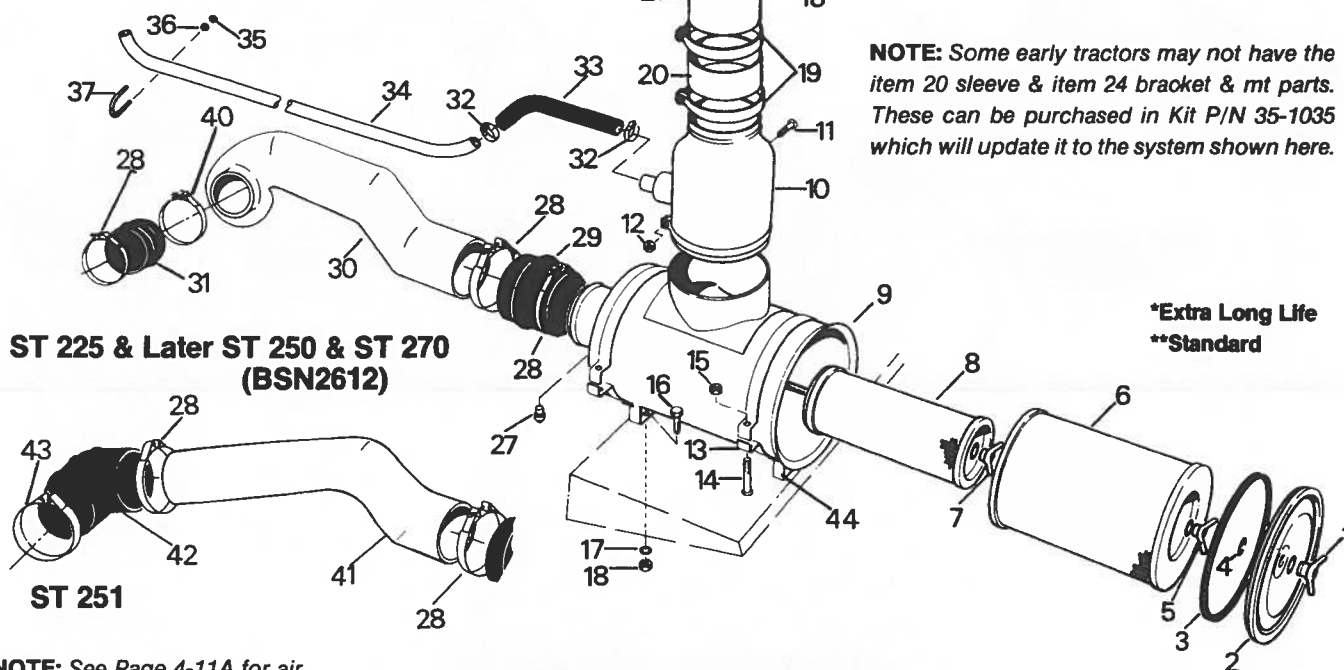
ST 220

Ref.	Part No.	Description	Qty.
1-12	45-184	Air Cleaner Assy	1
1	45-219	Nut Assy	1
2	45-215	Cover	1
3	45-223	Gasket	1
4	45-216	Clip	1
5	45-218	Nut Assy	1
6	45-213	Element, Primary*	1
	45-213S1	Element, Primary**	1
7	45-221	Nut Assy	1
8	45-212	Element, Safety	1
9	45-229	Body Assy	1
10	45-230	Pre-Cleaner Assy (incl Ref. 11 & 12)	1
11	19-021	Capscrew	1
12	19-078	Nut	1
13	09-005	Mounting Band (incl 14 & 15)	2
14	19-039	Capscrew	2
15	19-508	Lock Nut	2
16	19-017	Capscrew	6
17	19-107	Washer	9
18	19-087	Lock Nut	7
19	32-129	Clamp (use w/09-017)	2
	32-1020	Clamp (use w/01-2639)	2

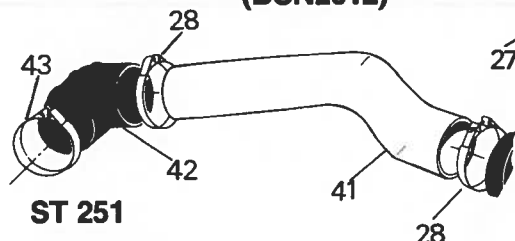
Ref.	Part No.	Description	Qty.
20	09-017	Hump Hose (Replaces 01-2639 straight sleeve) (B)	1
21	45-180	Tube	1
22	09-128	Hood, Air Inlet	1
23	01-2637	Clamp	1
24	01-2640	Bracket	1
25	19-020	Capscrew	1
26	01-3528	Mount, Rubber	1
27	29-111	Indicator	1
28	32-128	Clamp	3
29	09-013	Hump Hose	1
30	45-235	Elbow	1
31	09-065	Hump Hose	1
32	32-133	Clamp	1
33	32-1004	Clamp	2
34	07-1019	Hose (32-1014) (B)	1
35	01-1003	Tube, Aspirator	1
36	19-077	Nut	4
37	19-700	Washer	4
38	19-1011	Clamp	2



Early ST 250 & ST 270



ST 225 & Later ST 250 & ST 270 (BSN2612)



ST 251

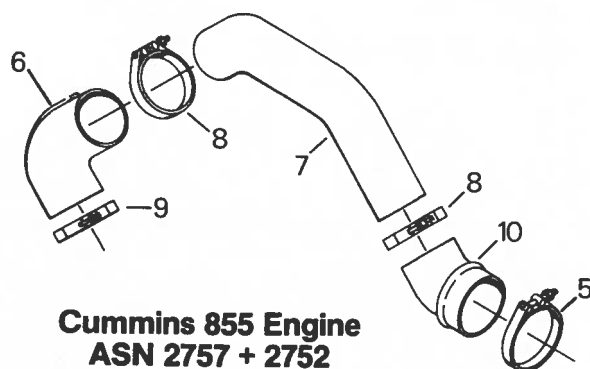
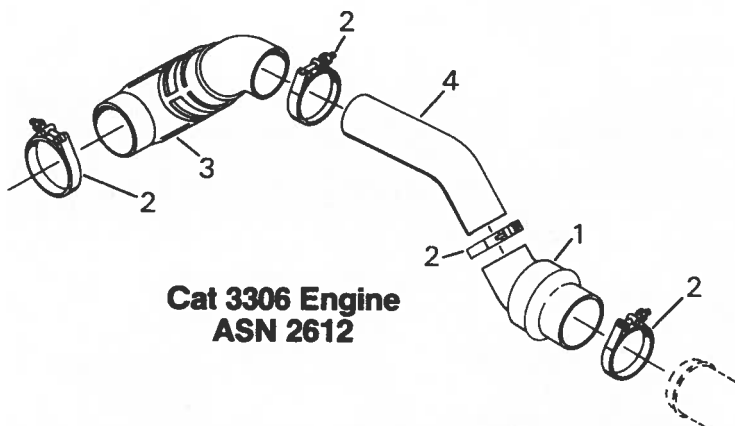
NOTE: See Page 4-11A for air intake on ST 225, 250 & 270 ASN2612.

Air Cleaner & Intake

ST 225, ST 250, ST 270 & ST 251

Ref.	Part No.	Description	Qty.
1-12	45-211	Air Cleaner Assy	1
1	45-219	Nut Assy	1
2	45-215	Cover	1
3	45-223	Gasket	1
4	45-216	Clip	1
5	45-218	Nut Assy	1
6	07-1011	Element, Primary*	1
	07-1011S1	Element, Primary**	1
7	45-221	Nut Assy	1
8	07-1010	Element, Safety	1
9	45-236	Body Assy	1
10	07-1004	Pre-Cleaner Assy (incl 11 & 12)	1
11-29		Same as 11-29 on Page 4-10	
30	01-4013	Tube (service w/Refs. 1-4 on page 4-11A)	1
31	90-1674T1	Hump Hose (Repl 01-4004 straight connector) (E)	1
32	31-1283	Clamp	2
33	32-1014	Hose	1

Ref.	Part No.	Description	Qty.
34	01-1003	Tube, Aspirator	1
35	19-077	Nut	4
36	19-700	Washer	4
37	19-1049	U-Bolt	2
38	NA	Tube (service w/Refs. 1-4 on page 4-11A)	
39	09-004	Elbow, 5" Rubber	1
40	32-2002	Clamp (use w/90-1674T1 Hump Hose)	1
	32-128	Clamp (use w/older style 01-4004 straight connector)	1
41	45-267	Tube (ST 251 only)	1
42	09-129	Elbow, 5" x 5-1/2" Rubber	1
43	32-133	Clamp	1
44	01-7781	Shims (ST 225 only BSN 2000)	4
	90-2734T1	Mounts (all ASN 2000 w/non swing transfer case)	2

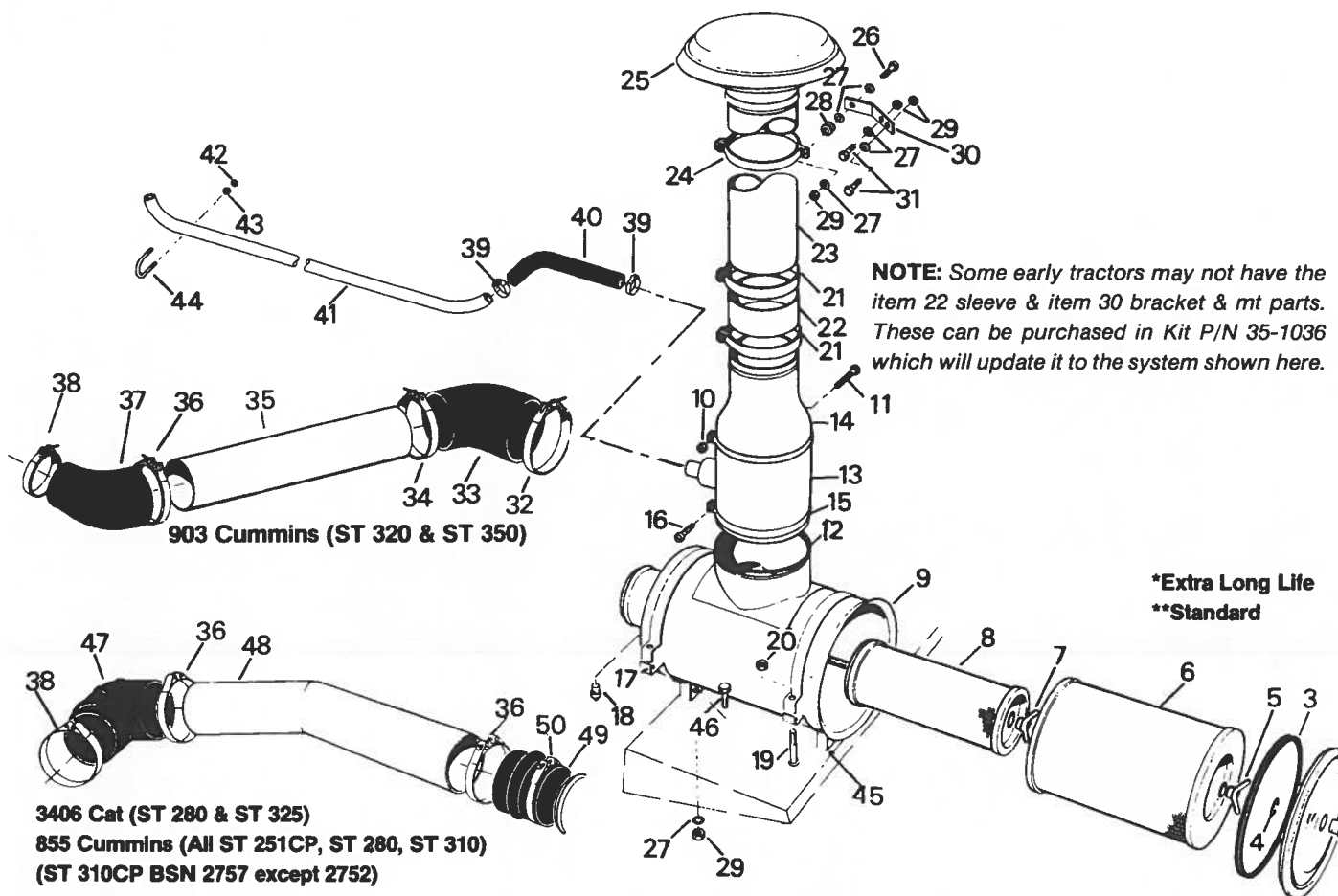


Air Intake System

(Cat 3306, ASN 2612) (Cummins 855, ASN 2757)

Ref.	Part No.	Description	Qty.
Cat 3306 Engine			
1	90-3565T1	Elbow	1
2	32-128	Clamp	4
3	90-3566T1	Elbow	1
4	90-3567T1	Intake Tube	1

Ref.	Part No.	Description	Qty.
Cummins 855 Engine			
5	32-210	Clamp	1
6	09-045	Elbow	1
7	90-3881T1	Intake Tube	1
8	32-129	Clamp	2
9	32-133	Clamp	1
10	90-3882T1	Hump Hose	1



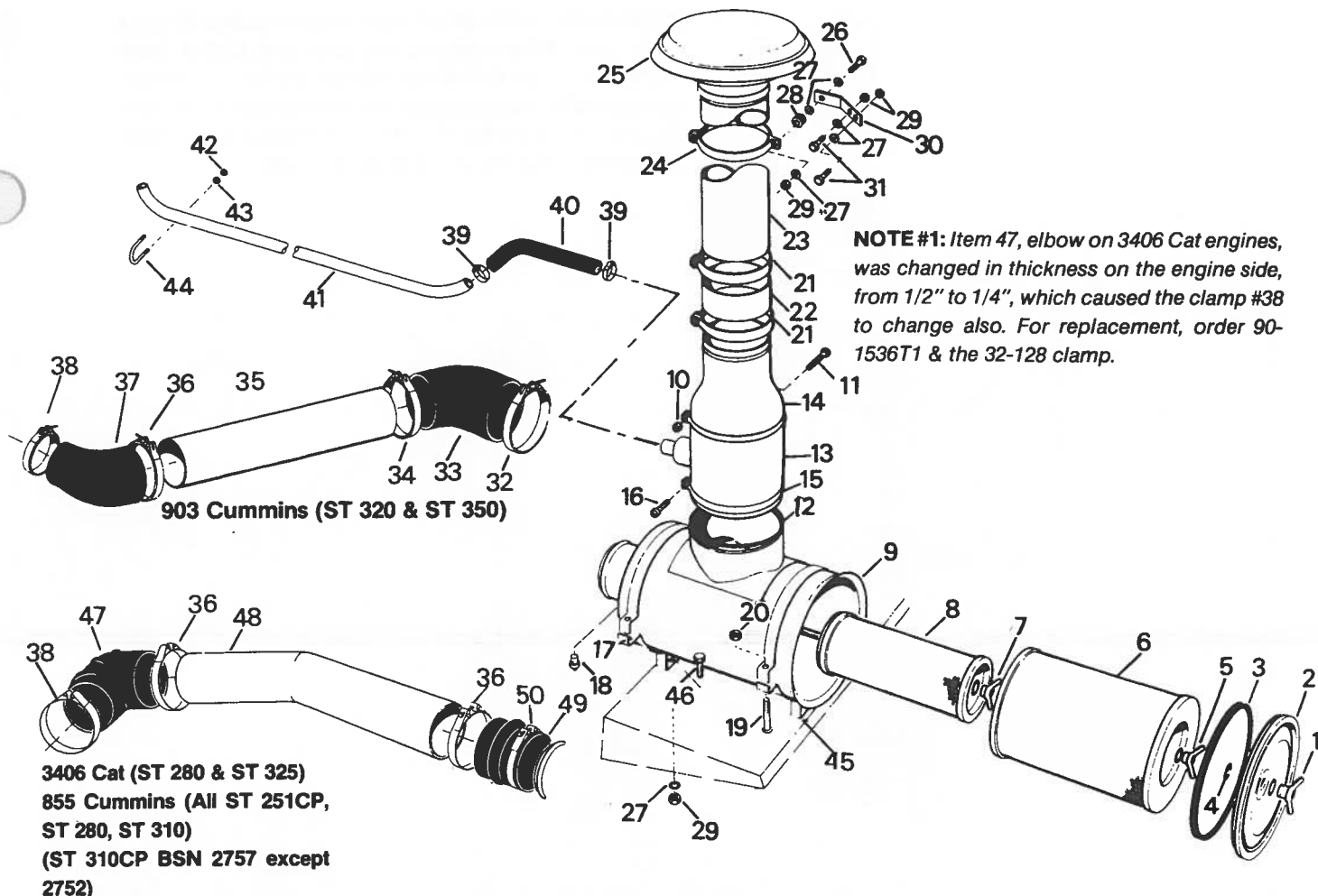
*See Page 4-11A for ST 310CP
after SN 2757.

Air Cleaner & Intake

ST 280, ST 325, ST 320, ST 350, ST 251CP, ST 310 & ST 310CP

Ref.	Part No.	Description	Qty.
1-16	45-204	Air Cleaner Assy	1
1	45-219	Nut Assy	1
2-3	07-1008	Cover Assy	1
2	NSS	Cover	1
3	07-1012	Gasket	1
4	45-216	Clip	1
5	45-218	Nut Assy	1
6	45-252	Element, Primary*	1
	45-252S1	Element Primary**	
7	07-1006	Nut Assy	1
8	45-253	Element, Safety	1
9	07-1005	Body Assy	1
10	19-078	Nut	1
11	19-021	Capscrew	1
12	01-2624	O-Ring	1
13	07-1009	Precleaner (incl 10, 11 & 14)	1
14	01-2623	Adapter	1
15	01-2625	Clamp (incl 16)	1
16	19-1123	Screw	1
17	09-025	Mt Band (incl 19 & 20)	2
18	29-111	Indicator, Restriction	1
19	19-039	Screw	2
20	19-508	Lock Nut	2
21	31-2001	Clamp	2

Ref.	Part No.	Description	Qty.
22	09-073	Hump Hose (Repl 01-2638 St. Connector) (B)	1
23	45-200	Inlet Stack	1
24	01-2636	Clamp	1
25	09-120	Hood, Air Inlet	1
26	19-020	Capscrew, 3/8 NC x 1-3/4	1
27	19-107	Washer, 3/8	9
28	01-3528	Mount, Rubber	1
29	19-087	Lock Nut, 3/8 NC	7
30	01-2641	Bracket	1
31	19-017	Capscrew, 3/8 NC x 1	2
32	32-287	Clamp	1
33	09-131	Rubber Elbow	1
34	32-1020	Clamp	1
35	45-246	Tube	1
36	32-129	Clamp	AR
37	09-130	Rubber Elbow	1
38	32-133	Clamp (all except below)	1
	32-128	Clamp (see Note #1)	
39	31-1283	Clamp	2
40	32-1013	Hose	1
41	01-1004	Tube, Aspirator	1
42	19-077	Nut, 5/16 NC	4



*See Page 4-11A for ST 310CP
after SN 2757.

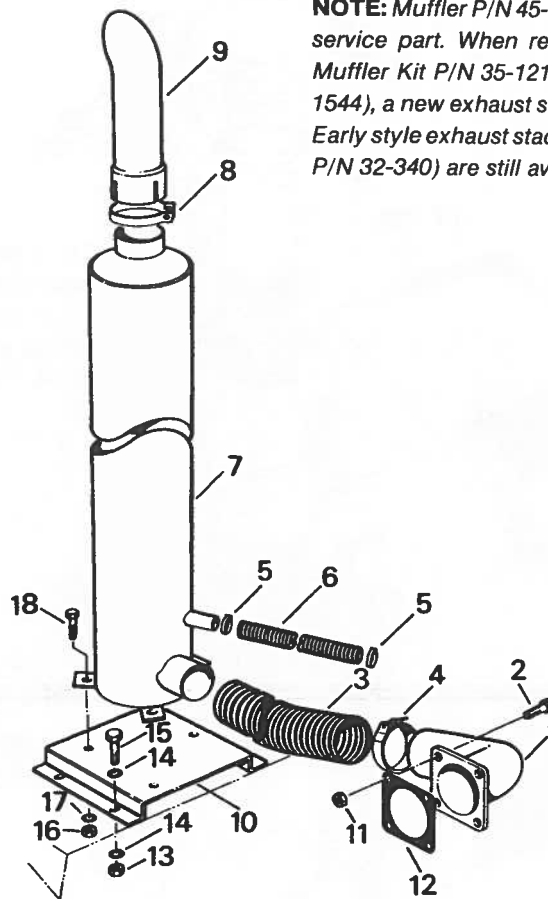
Air Cleaner & Intake

ST 280, ST 325, ST 320, ST 350, ST 251CP, ST 310 & ST 310CP

Ref.	Part No.	Description	Qty.
43	19-700	Washer, 5/16	4
44	19-1011	U-Bolt	2
45	01-2338	Shim (w/3406 engine, BSN 2000)	2
	90-2735T1	Mounts (all, ASN 2000)	2
46	19-018	Capscrew, 3/8 NC x 1-1/4 (w/3406 engine, BSN 2000)	4
	19-017	Capscrew, 3/8 NC x 1 (all except 3406, BSN 2000)	4
	19-022	Capscrew, 3/8 NC x 2-1/2 (all, ASN 2000)	4

Ref.	Part No.	Description	Qty.
47	09-045	Elbow, (855 engine except ST 310 CP)	1
	09-076	Hump Hose (ST 310 CP)*	1
	90-1536T1	Elbow (3406 Cat) (Repl 07-1013) (see Note #1)	1
48	07-1014	Tube (3406 Cat)	1
	45-265	Tube (855 engines except ST 310 CP)	1
	01-9412	Tube (ST 310CP) (service w/Refs. 5-10 on page 4-11A)	1
49	09-074	Hump Hose*	1
50	32-210	Clamp	1

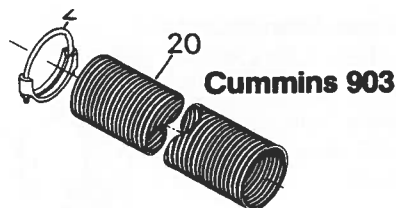
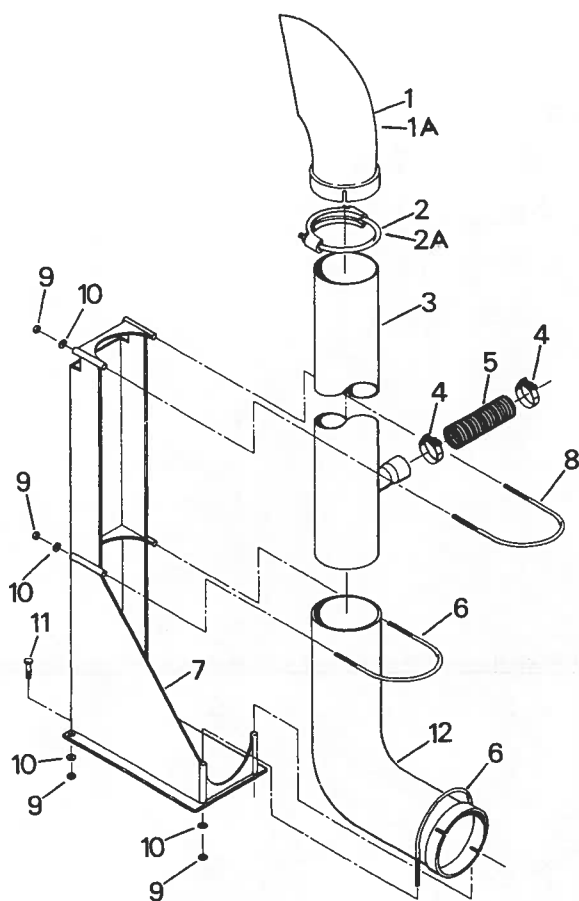
NOTE: Muffler P/N 45-181 (4" stack) is no longer available as a service part. When replacing this early style muffler, order Muffler Kit P/N 35-1219 which contains the new muffler (02-1544), a new exhaust stack (45-254) and one clamp (31-1537). Early style exhaust stack (Ref. 9 P/N 45-263) and clamp (Ref. 8 P/N 32-340) are still available as service parts.



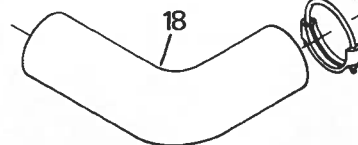
Exhaust System - ST 220

Ref.	Part No.	Description	Qty.
1	45-261	Elbow	1
2	19-046	Capscrew, 1/2 NC x 2	4
3	45-233	Flex Tube	1
4	31-1537	Clamp (32-315) (E)	2
5	32-1004	Clamp	2
6	45-188	Flex Tube	1
7	02-1544	Muffler (see Note) (C)	1
8	32-340	Clamp (4" stack) (see Note)	1
	31-1537	Clamp (5" stack) (32-315) (E)	
9	45-263	Exhaust Stack (4") (see Note)	1
	45-254	Exhaust Stack (5")	

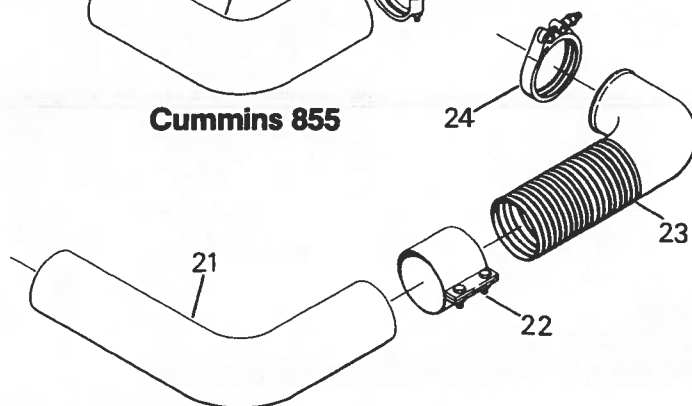
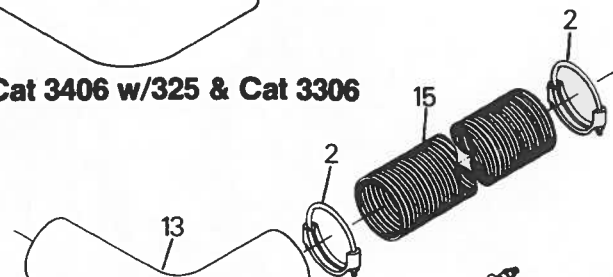
Ref.	Part No.	Description	Qty.
10	45-262	Bracket	1
11	19-081	Nut, 1/2 NC	4
12	18-1298	Gasket	1
13	19-087	Lock Nut, 3/8 NC	4
14	19-107	Washer, 3/8	8
15	19-017	Capscrew, 3/8 x 1 NC	4
16	19-082	Lock Nut, 1/2 NC	3
17	19-109	Washer, 1/2	3
18	19-043	Capscrew, 1/2 x 1 NC	3



Cat 3406 w/325 & Cat 3306



Cummins 855



Exhaust System

All Except ST 220

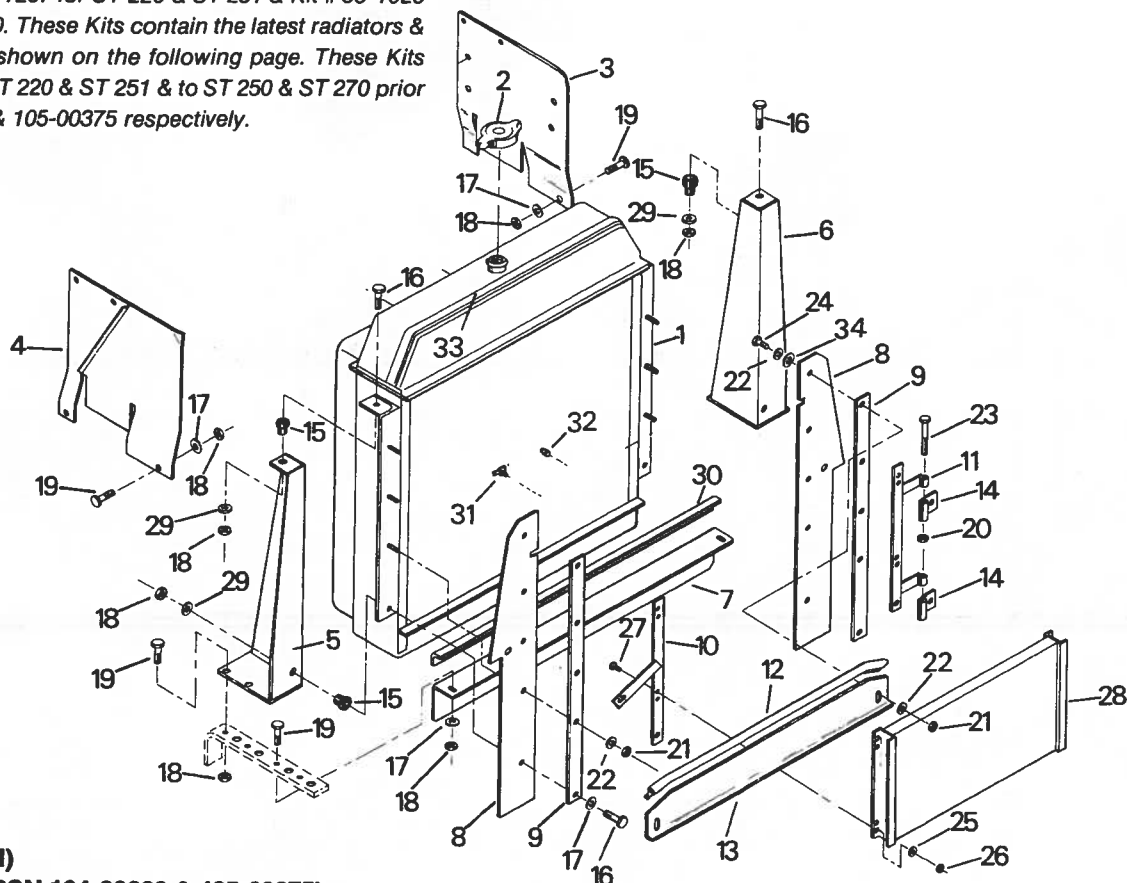
Cat 3406 w/280

Ref.	Part No.	Description	Qty.
1	45-254	Exhaust Stack (5")	1
1A	45-255	Exhaust Stack (6") (Note #1)	AR
2	31-1537	Clamp (5")	1
2A	32-341	Clamp (6") (Note #1)	1
3	45-190	Ejector (ST 225, ST 250, ST 251 & ST 270)	1
	45-196	Ejector (all others) (Note #1)	1
4	32-1004	Clamp (use w/45-190)	2
	32-137	Clamp (use w/45-196)	2
5	45-188	Flex Tube (use w/45-190)	1
	31-1080T1	Flex Tube (use w/45-196)	1
6	32-322	U Bolt	2
7	45-195	Bracket	1
8	01-2948	U Bolt	1
9	19-087	Lock Nut, 3/8 NC	8
10	19-107	Washer, 3/8	8
11	19-017	Capscrew, 3/8 NC x 1	2
12	45-245	Elbow (ST 320 & ST 350)	1
	45-191	Elbow (all except above)	1
13	45-245	Elbow	1
14	19-083	Nut, 5/8 NC	4

Ref.	Part No.	Description	Qty.
15	45-177	Flex Tube	1
16	19-059	Capscrew, 5/8 NC x 1-1/2	4
17	45-227	Flex Tube (3306 Cat)	1
	07-1016	Flex Tube (3406 Cat - ST 325)	1
18	07-1017	Elbow	1
19	18-1301	Gasket	1
20	45-187	Flex Tube	1
21	90-2466T1	Elbow	1
22	31-1061	Clamp	1
23	90-2461T1	Flex Tube	1
24	31-1316	Clamp	1

NOTE: On tractors built prior to approximately June 76, the item 3, 45-196 ejector, had a 6" outlet, requiring the use of items 1A & 2A. Be sure to check before ordering any of these items for the tractors in question, as the ejector now has 5" outlet and will require ordering the 5" clamp and stack also. Even though the ejector w/6" outlet is no longer available, the 6" clamp and stack are.

NOTE #1: These radiators are no longer available and must be serviced w/Kit # 35-1267 for ST 220 & ST 251 & Kit # 35-1029 for ST 250 & ST 270. These Kits contain the latest radiators & mounting parts as shown on the following page. These Kits would apply to all ST 220 & ST 251 & to ST 250 & ST 270 prior to SNB 104-00289 & 105-00375 respectively.



Usage

*ST 220 & ST 251 (all)

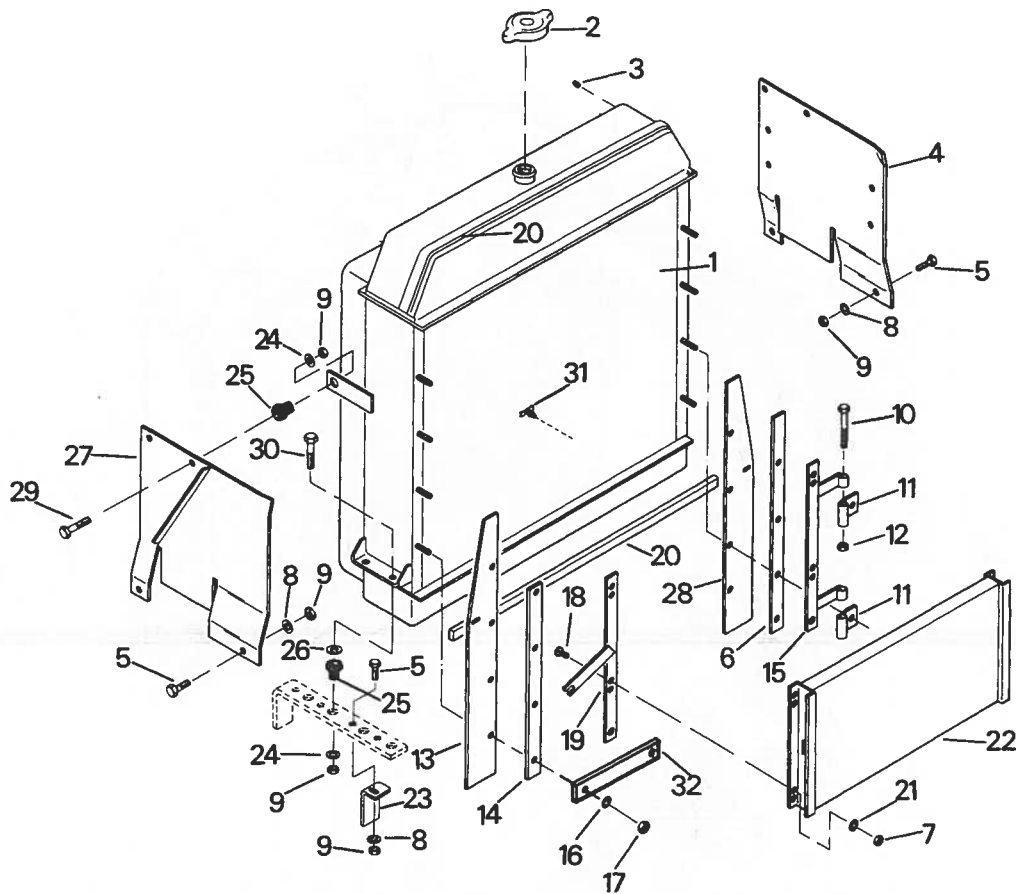
**ST 250 & ST 270 (BSN 104-00289 & 105-00375)

Radiator & Mounting

All ST 220, ST 251, & Early ST 250 & ST 270

Ref.	Part No.	Description	Qty.
1	51-389	Radiator* (see Note #1)	1
	51-400	Radiator** (see Note #1) (D)	1
2	10-021	Radiator Cap	1
3	51-412	Hinge Shield (Left)	1
4	51-409	Hinge Shield (Right)	1
5	51-390	Upright (Right)*	1
	51-401	Upright (Right)**	1
6	51-391	Upright (Left)*	1
	51-402	Upright (Left)**	1
7	01-509	Chaff Shield (Bottom on ST 250 & ST 270 only)	1
8	51-394	Chaff Shield*	2
	51-405	Chaff Shield**	2
9	51-396	Backing Strip	2
10	51-442	Cooler Latch	1
11	51-441	Cooler Hinge	1
12	51-414	Rubber Trim	1
13	51-395	Chaff Shield (top)*	1
	01-510	Chaff Shield (top)**	1
14	51-440T1	Hinge (51-440) (B)	2
15	18-511	Rubber Mt.	4

Ref.	Part No.	Description	Qty.
16	19-046	Capscrew, 1/2 NC x 2	4
17	19-109	Washer, 1/2	6
18	19-081	Nut, 1/2 NC	14
19	19-045	Capscrew, 1/2 NC x 1-1/2	10
20	19-087	Locknut	2
21	19-078	Nut, 3/8 NC	6
22	19-107	Washer, 3/8	10
23	19-133	Capscrew, 3/8 NC x 4	2
24	19-017	Capscrew, 3/8 NC x 1	2
25	19-603	Washer, #10	8
26	19-567	Nut, #10 NC	8
27	19-233	Screw, #10 NC x 1/2	8
28		Condenser (see Sec. III)	1
29	19-571	Washer, Mt.	4
30	01-511	Rubber Pad*	1
	51-398	Foam Pad**	1
31	31-157	Drain Cock	1
32	31-037	Pipe Plug (ST 220 & 251 only)	1
33	51-398	Foam Pad	1
34	19-110	Washer, 9/16	2

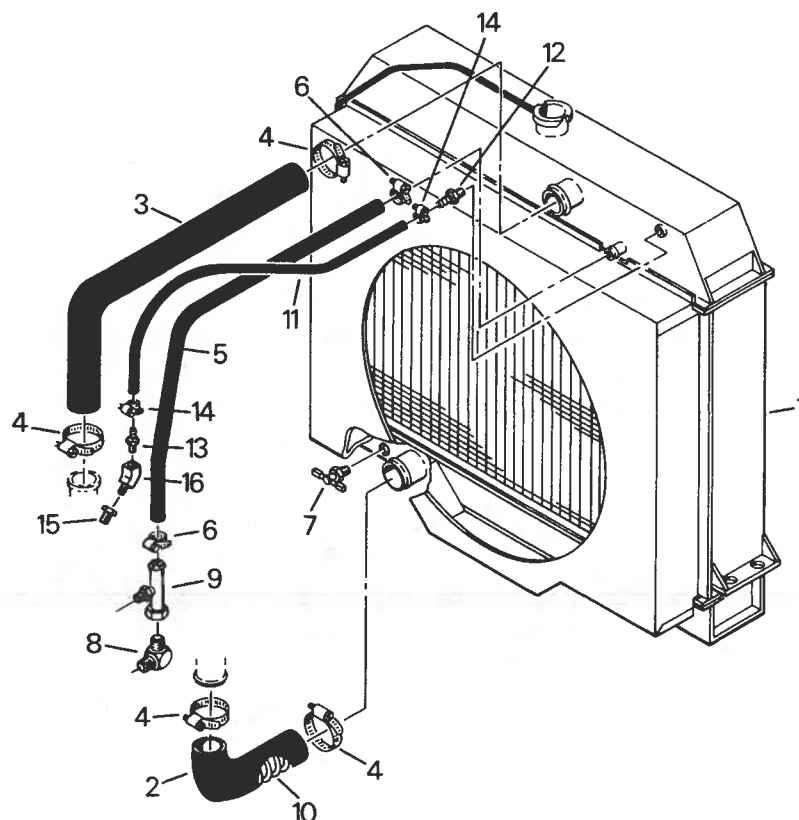


Radiator Mounting

All Except ST 220, 251 & Early ST 250 & 270

Ref.	Part No.	Description	Qty.
1		Radiator (see Page 4-18)	1
2	10-021	Radiator Cap	1
3	31-037	Pipe Plug (903 Engine only)	1
4	90-2354T1	Hinge Shield, LH (51-412) (B)	1
5	19-045	Capscrew, 1/2 NC x 1-1/2	5
6	51-475	Backing Strip, LH (903 & 3306)	1
	51-419	Backing Strip, LH (3406 & 855)	1
7	19-567	Nut, #10 NC	8
8	19-109	Washer, 1/2	3
9	19-081	Nut, 1/2 NC	11
10	19-133	Capscrew, 3/8 NC x 4	2
11	51-440	Hinge	2
12	19-087	Lock Nut, 3/8 NC	2
13	51-417	Chaff Shield, RH	1
14	51-475	Backing Strip, RH	1
15	51-444T1	Cooler Hinge (51-444) (E)	1
16	19-107	Washer, 3/8	8
17	19-078	Nut, 3/8 NC	8

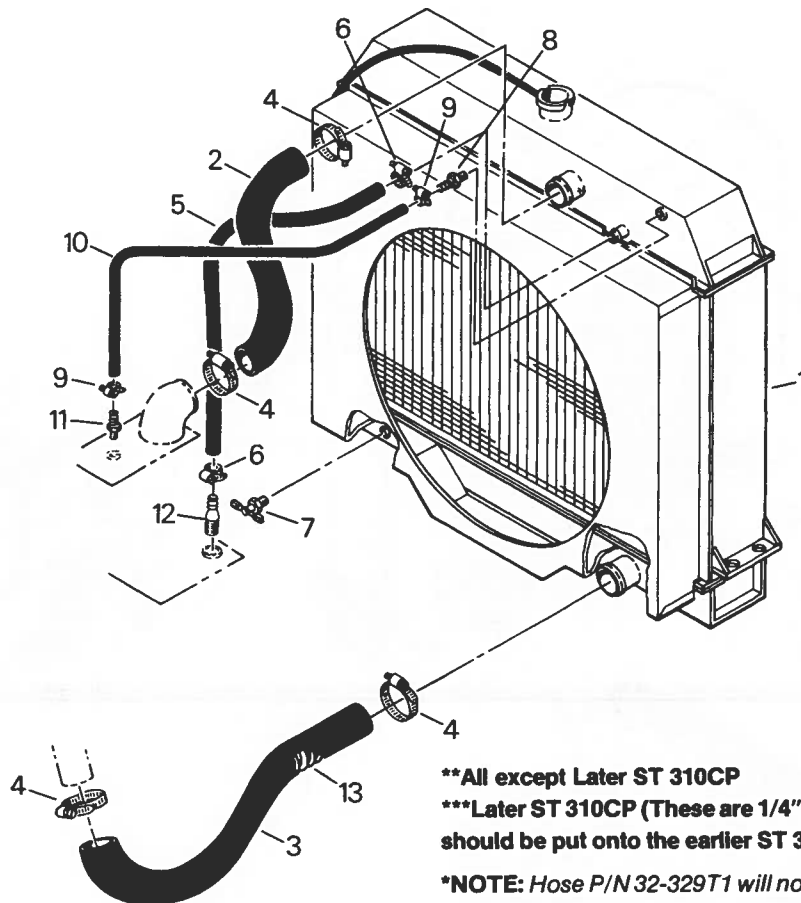
Ref.	Part No.	Description	Qty.
18	19-233	Screw, #10 x 1/2	8
19	51-443T1	Cooler Latch (51-443) (B)	1
20	01-552	Foam Pad (Bottom one is used only w/903 & 3306)	2
21	19-603	Washer, #10	8
22		Condenser (see Sec. III)	1
23	51-476	Strip, Filler (903 only)	1
24	19-571	Washer	6
25	18-511	Rubber Mt.	6
26	19-806	Washer	4
27	51-409	Hinge Shield, RH	1
28	51-417	Chaff Shield, LH (903 & 3306)	1
	51-418	Chaff Shield, LH (3406 & 855)	1
29	19-046	Capscrew, 1/2 NC x 2	2
30	19-047	Capscrew, 1/2 NC x 2-1/2	4
31	31-157	Drain Cock	1
32	02-4566T1	Strap (not on early tractors but can be added)	1



Radiator & Hoses (Cat 3306 Engine)

Ref.	Part No.	Description	Qty.
1		Radiator Assy (see Page 4-19)	1
2	32-325	Hose	1
	32-326	Hose (D) (Early)	
3	01-2631	Hose (D)	1
4	32-024	Clamp	4
5	31-1509	Shunt Hose	1
6	32-027	Clamp	2
7	31-157	Drain Cock	1
8	31-669	Elbow (w/o coolant exchange system)	1
	31-1575	Elbow (w/coolant exchange system)	

Ref.	Part No.	Description	Qty.
9	25-377	Shunt Tube	1
10	32-1008	Hose Spring	1
11	31-1079	Hose (cut to fit if needed)	1
12	31-314	Barbed Fitting	1
13	31-164	Barbed Fitting	1
14	32-029	Clamp	2
15	31-015	Reducer	1
16	31-207	Elbow	1



****All except Later ST 310CP**

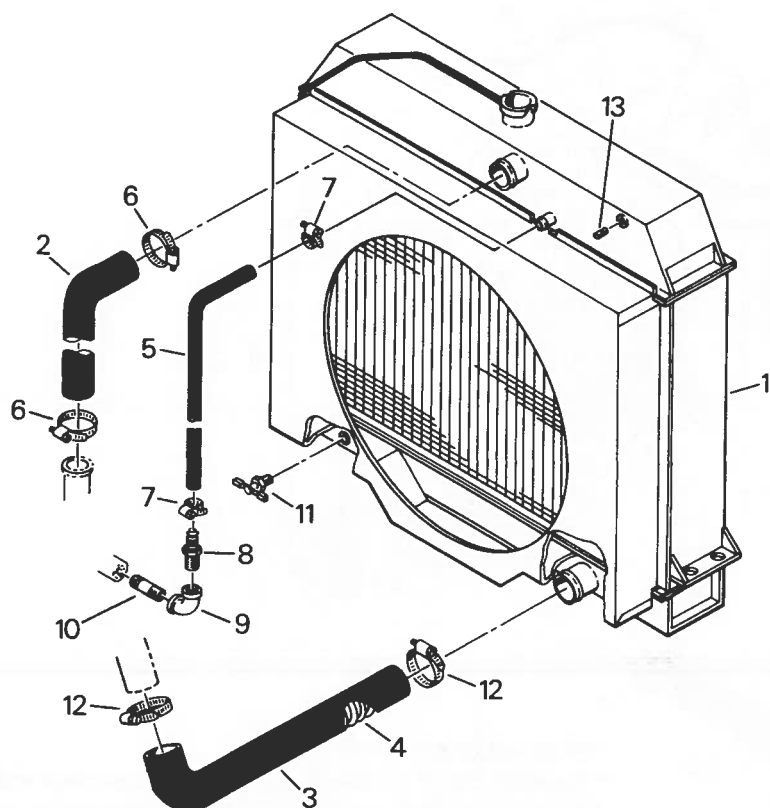
*****Later ST 310CP (These are 1/4" ID hoses & adapters which should be put onto the earlier ST 310CP which used the 3/8".**

***NOTE:** Hose P/N 32-329T1 will now incl the hose spring (Ref. 12) while with Hose P/N 32-329 the spring is a separate part.

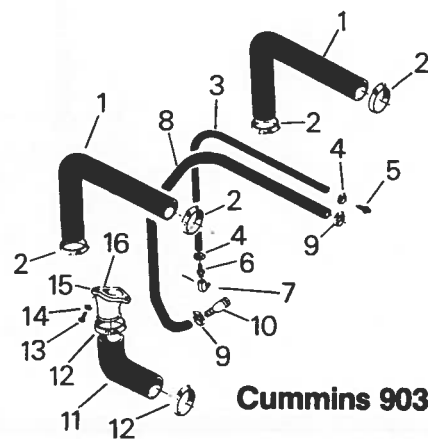
Radiator & Hoses (Cummins 855 Engine)

Ref.	Part No.	Description	Qty.
1		Radiator Assy (see page 4-19)	1
2	32-317	Hose	1
3	32-329T1	Hose (32-329)* (B) (ST 251CP, 280 & 310CP)	1
	32-320	Hose (ST 220 & 251)	1
4	32-024	Clamp	4
5	31-1503	Hose	1
6	32-027	Clamp	2
7	31-157	Drain Cock	1

Ref.	Part No.	Description	Qty.
8	31-137	Barbed Fitting**	1
	31-1186	Barbed Fitting***	
9	32-029	Clamp	2
10	32-318	Hose, 3/8 ID**	1
	31-1442	Hose, 1/4 ID***	
11	31-164	Barbed Fitting**	1
	31-615	Barbed Fitting***	
12	31-248	King Nipple	1
13	32-1007	Hose Spring (see Note)	1



Cat 3406



Cummins 903

Radiator & Hoses (Cat 3406 & Cummins 903)

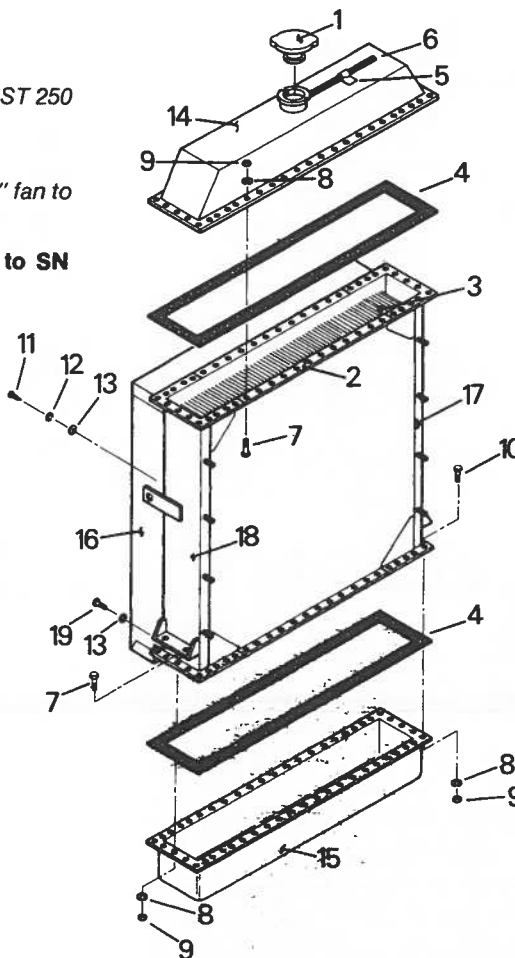
Ref.	Part No.	Description	Qty.
Cat 3406			
1		Radiator Assy (see Page 4-19)	1
2	32-1016	Hose	1
3	32-1017	Hose	1
4	32-1018	Hose Spring	1
5	31-1505	Hose	1
6	32-024	Clamp	2
7	32-027	Clamp	2
8	31-318	Barbed Fitting	1
9	31-044	Elbow	1
10	31-275	Pipe Nipple	1
11	31-157	Drain Cock	1
12	32-022	Clamp	2
13	31-037	Pipe Plug	2

Ref.	Part No.	Description	Qty.
Cummins 903			
1	32-338	Upper Hose	2
2	32-025	Clamp	4
3	32-336	Hose	1
4	32-059	Clamp	2
5	31-137	Barb Fitting	1
6	31-164	Barb Fitting	1
7	32-207	Elbow	1
8	31-1509	Hose	1
9	32-027	Clamp	2
10	31-275	Nipple	1
11	32-339	Lower Hose	1
12	32-022	Clamp	1
13	19-692	Capscrew	2
14	19-118	Lockwasher	2
15	05-387	Water Inlet	1
16	01-2907	Gasket	1

NOTE: For ST 220 & 251 order Kit # 35-1267T91 & for ST 250 (BSN 289) & ST 270 (BSN 375) order Kit # 35-1029.

NOTE: To convert tractors w/3306 engine from the 26" fan to the 30" fan, order Kit 35-1305T91.

CAUTION: This Kit will not work on tractors prior to SN 104-00330 (ST 250) or 105-00544, (ST 270).

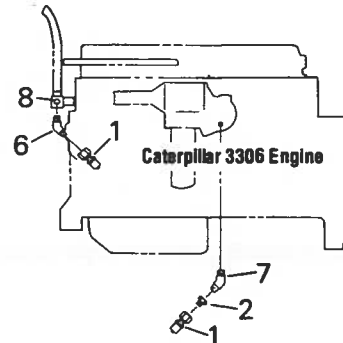
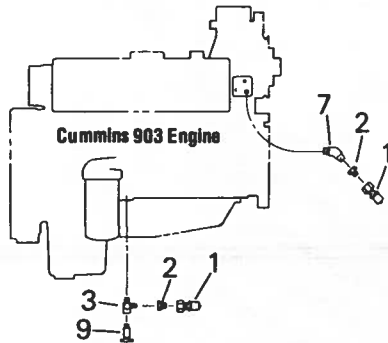
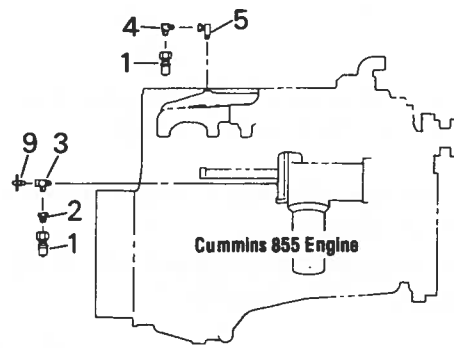
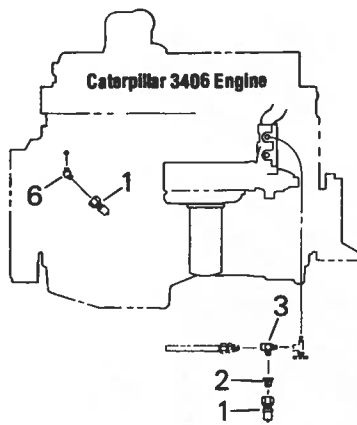


Radiators & Parts

All Except ST 220, ST 251, & Early ST 250 & ST 270*

Ref.	Part No.	Description	Qty.
1-19	01-7039T91	Radiator (3306 w/26" Fan)	1
	90-2343T91	Radiator (3306 w/30" Fan)	1
	01-7036T91	Radiator (855)	1
	01-7037T91	Radiator (903)	1
	01-7038T91	Radiator (3406)	1
1	10-021	Cap	1
2	90-1530T1	Header Bar (01-2600) (B)	4
3	01-2589	Core	1
4	01-2599	Gasket	2
5	31-2173	Clip	3
6	31-1260	Overflow Hose	1
7	19-007	Capscrew, 5/16 NC x 1	92
8	19-116	Lockwasher, 5/16	100
9	19-077	Nut, 5/16 NC	100
10	19-234	Capscrew, 5/16 NC x 1-1/4	8
11	19-200	Tap Screw, 1/4 NC x 3/4	10
12	19-115	Lockwasher, 1/4	10
13	19-223	Washer, 1/4	12
14	01-6979	Top Tank (3306 w/26" Fan)	1
	90-2342T1	Top Tank (3306 w/30" Fan)	
	01-2586	Top Tank (855)	
	01-2587	Top Tank (903)	
	01-2588	Top Tank (3406)	

Ref.	Part No.	Description	Qty.
15	01-6973	Bottom Tank (3306)	1
	01-2590	Bottom Tank (855)	
	01-2591	Bottom Tank (903)	
	01-2592	Bottom Tank (3406)	
16	01-7005	Shroud (3306 w/26" Fan)	1
	90-2340T1	Shroud (3306 w/30" Fan)	
	01-2597	Shroud (855 & 903)	
	01-2598	Shroud (3406)	
17	01-2595T1	Side member, LH (3306 & 903)	1
	01-2596T1	Side Member, LH (855 & 3406)	
18	01-2593T1	Side Member, RH (3306 & 903)	1
	01-2594T1	Side Member, RH (855 & 3406)	
19	19-717	Capscrew, 1/4 NC x 5/8	2



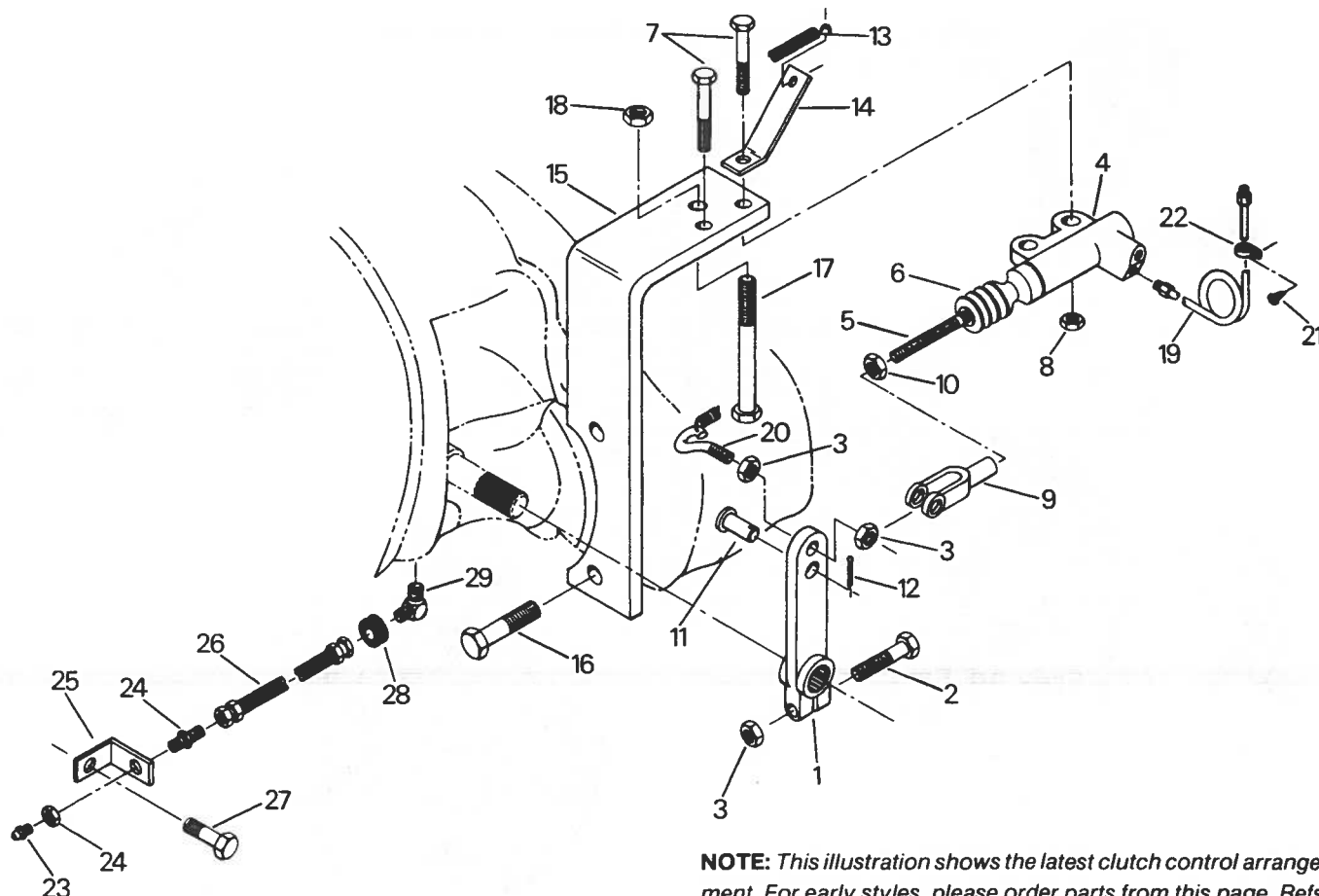
NOTE: Engine Coolant Coupler Kit # 35-1298T92 can be purchased so as to enable the coolant exchange system in these engines to be connected to another engine. The kit includes four 31-522 adapters, four 50-1173T1 couplers, two 50-1172T1 nipples, two 31-2180 hoses, two 31-178 & instructions. This kit replaces 35-1298T91 which did not have hoses or extra adapters and couplers.

NOTE: Discontinued Feb 83

Engine Coolant Coupler System

Ref.	Part No.	Description	Qty.
1	50-1172T1	Nipple	2
2	31-178	Reducer	2
3	31-1586	Adapter	1
4	31-1585	Elbow	1
5	31-381	Adapter	1

Ref.	Part No.	Description	Qty.
6	31-1573	Elbow	1
7	31-1574	Elbow	1
8	31-1575	Elbow	1
9	NSS	Drain Cock (supplied with engine)	1



NOTE: This illustration shows the latest clutch control arrangement. For early styles, please order parts from this page. Refs. 3, 13, 14 & 20 must be ordered/installed together to work properly on early models.

Clutch Control & Lubrication

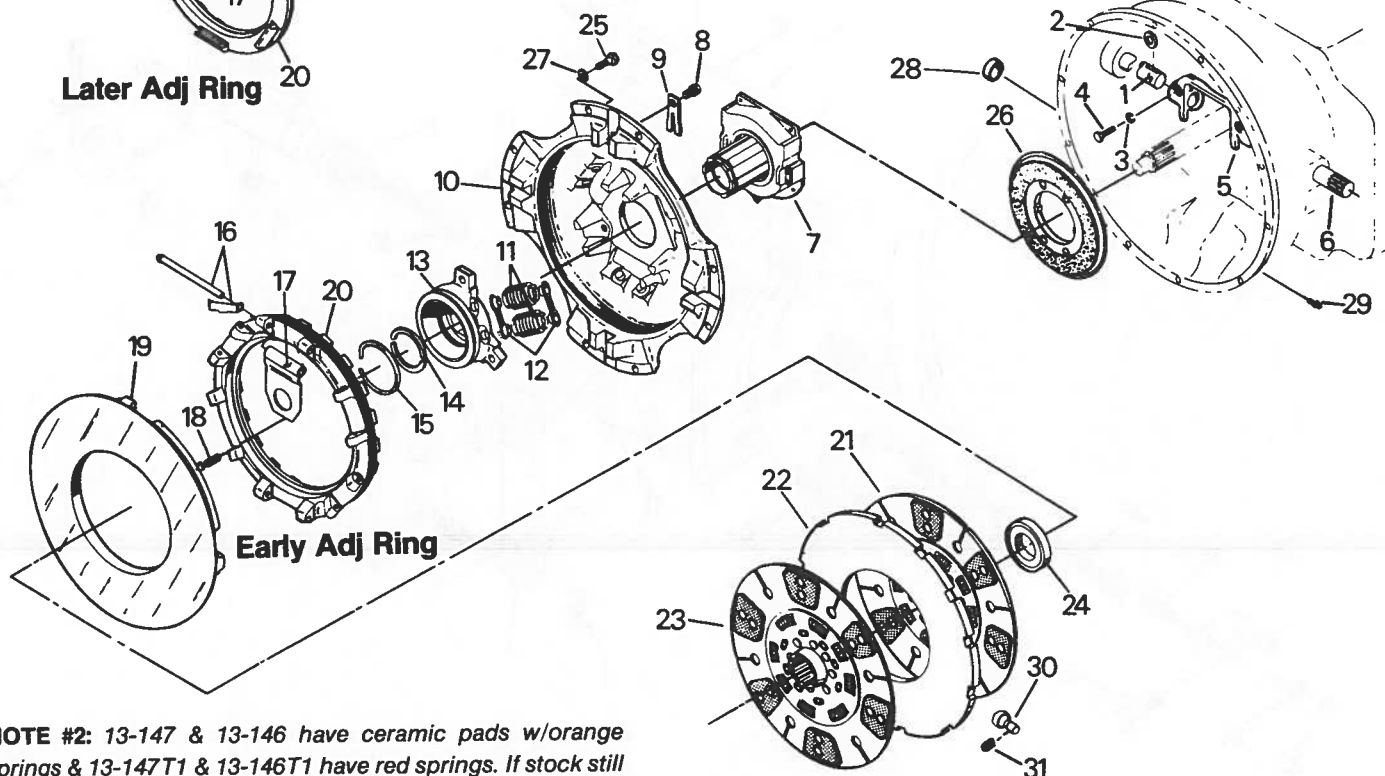
Ref.	Part No.	Description	Qty.
1	54-298	Clutch Lever	1
2	19-021	Capscrew	1
3	19-078	Nut	3
4	54-299	Slave Cylinder	1
	35-1009	Repair Kit	AR
5	01-9436	Push Rod (incl with Ref. 4)	1
6	01-3082	Boot (incl with Ref. 4)	1
7	19-730	Capscrew	2
8	19-079	Nut	2
9	19-139	Clevis	1
10	19-868	Nut	1
11	19-145	Clevis Pin	1
12	19-124	Cotter Pin	1
13	02-2027	Spring	1
14	02-2026	Strap	1

Ref.	Part No.	Description	Qty.
15	54-297	Bracket	1
16	19-817	Capscrew	2
17	19-825	Capscrew	1
18	19-081	Nut	1
19	25-1000	Tube	1
20	19-5574	Eye Bolt	1
21	19-131	Tapping Screw	1
22	32-068	Clip	1
23	31-094	Grease Fitting	1
24	31-660	Adapter	1
25	12-1518	Bracket	1
26	32-309	Hose	1
27	19-479	Capscrew	1
28	01-3031	Grommet	1
29	31-661	Elbow	1



Later Adj Ring

NOTE #1: If the Early style adj ring is needed, order new style plus 6 new style levers.



NOTE #2: 13-147 & 13-146 have ceramic pads w/orange springs & 13-147T1 & 13-146T1 have red springs. If stock still exists, they are OK to use up, but cannot be mixed.

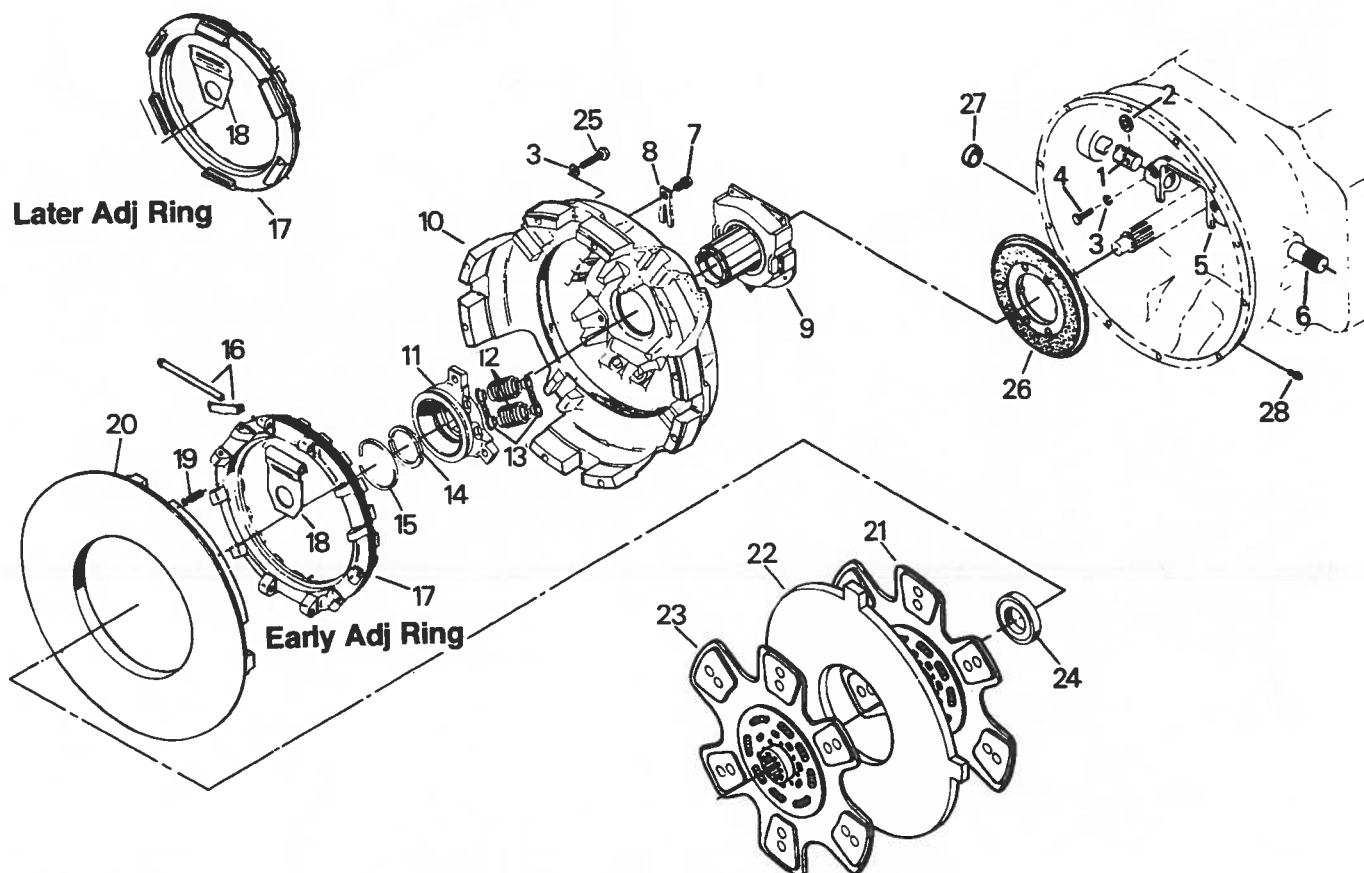
14" Clutch Assembly

3306 Cat & 903 Cummins (ST 320)

Ref.	Part No.	Description	Qty.
1	13-130	Shaft, Short	1
2	13-129	Washer	2
3	19-118	Lock Washer, 7/16	2
4	65-059	Capscrew, 7/16 NC x 1-3/16	2
5	13-079	Yoke, Release	1
6	13-204	Shaft, Long	1
7-23	01-4631T92	Clutch Assy (Repl 13-141 & 01-4631T91) (B)	1
7-20	13-139	Pressure Plate Assy	1
7	13-179	Bearing & Sleeve Assy	1
8	13-160	Bolt & Lock Washer	1
9	13-159	Lock, Adjusting Ring	1
10	13-155	Ring, Flywheel	1
11	13-165	Spring, Pressure	6
12	13-166	Pivot, Pressure Spring	6
13	13-164	Retainer, Release Sleeve	1
14	13-052	Ring, Release Sleeve	1
15	13-046	Snap Ring	1
16	13-162	Pin (Rep 13-181 Kit) (B)	6
	13-163	Clip (Repl 13-181 Kit) (B)	3
17	13-161	Lever (early) (see Note 1)	6
	01-4629	Lever (later)	

Ref.	Part No.	Description	Qty.
18	13-154	Spring, Return	4
19	13-153	Plate, Pressure	1
20	13-158	Ring, (early) (see Note 1)	1
	01-4630	Ring, (later)	
21	13-147T2	Disc, Rear (metallic pads) (Repl 13-147 & 13-147T1) (B) (see Note 2)	1
22	13-148	Disc, Intermediate	1
23	13-146T2	Disc, Front (metallic pads) (Repl 13-146 & 13-146T1) (B) (see Note 2)	1
24	66-039	Bearing, Pilot	1
25	19-679	Capscrew, 3/8 NC x 1	8
26	13-178	Brake, Clutch (1-3/4")	1
17	19-117	Lock Washer, 3/8	8
28	31-090	Plug	1
29	31-093	Zerk	2
30	13-167	Drive Pin	6
31	19-027	Set Screw	12
	13-1002	Anti-Rattle Spring Kit (not shown)	AR

NOTE: The early/late style ceramic discs or the metallic discs must not be intermixed.

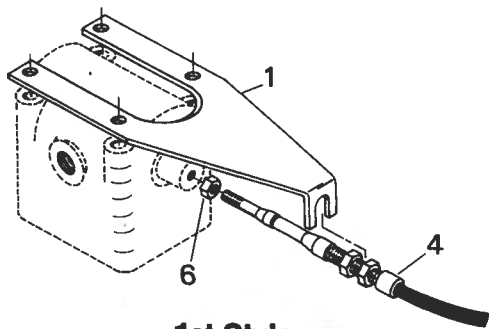


15-1/2" Clutch Assembly

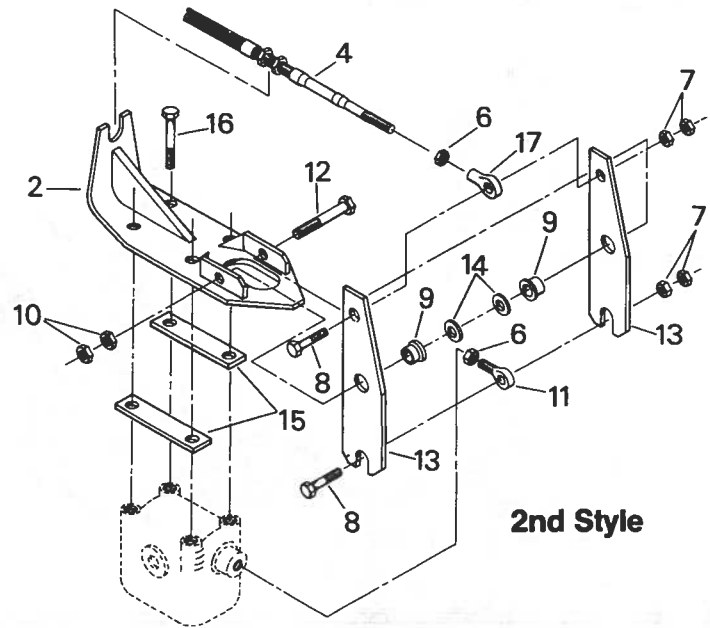
All 855 Cummins, 3406 Cat & 903 Cummins (ST350)

Ref.	Part No.	Description	Qty.
1	13-130	Short Shaft	1
2	13-129	Washer	2
3	19-118	Lock Washer, 7/16	10
4	65-059	Capscrew, 7/16 NC x 1-3/16	2
5	13-079	Release Yoke	1
6	13-204	Long Shaft	1
7-23	01-4632T92	Clutch Assy (B) (Repl 13-198 & 01-4632)	1
7-20	13-202	Pressure Plate Assy	1
7	13-160	Bolt & Lock Washer	1
8	13-159	Lock, Adjusting Ring	1
9	13-208	Bearing & Sleeve Assy	1
10	13-203	Ring, Flywheel	1
11	13-206	Retainer, Release Sleeve	1
12	13-165	Spring, Pressure	6
13	13-166	Pivot, Pressure Spring	6
14	13-209	Ring, Release Sleeve	2
15	13-046	Snap Ring	1
16	13-162	Pin (Repl 13-181 Kit) (B)	6
	13-163	Clip (Repl 13-181 Kit) (B)	3

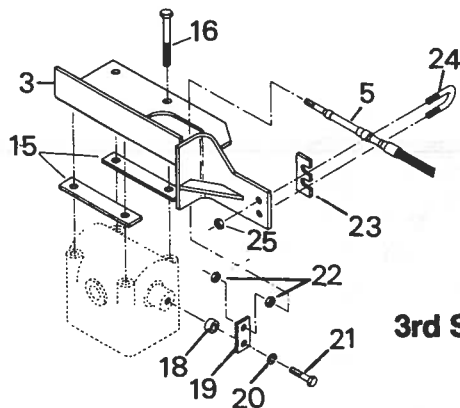
Ref.	Part No.	Description	Qty.
17	13-158	Ring, Adj (Early) (see Note 1)	1
	01-4630	Ring, Adj (Later)	1
18	13-161	Lever (Early) (see Note 1)	6
	01-4629	Lever (Later)	6
19	13-214	Spring, Return	4
20	13-213	Plate, Pressure	1
21	13-201T2	Disc, Rear (metallic pads) (Rep 13-201 & 13-201T1) (B)	1
22	13-200	Disc, Intermediate	1
23	13-199T2	Disc, Front (metallic pads) (Repl 13-199 & 13-199T1) (B)	1
24	66-039	Bearing, Pilot	1
25	19-892	Capscrew, 7/16 NC x 2-1/2	8
26	13-194	Brake, Clutch	1
27	31-090	Plug	1
28	31-093	Zerk	2
	13-1002	Anti-Rattle Spring Kit (not shown)	1



1st Style



2nd Style



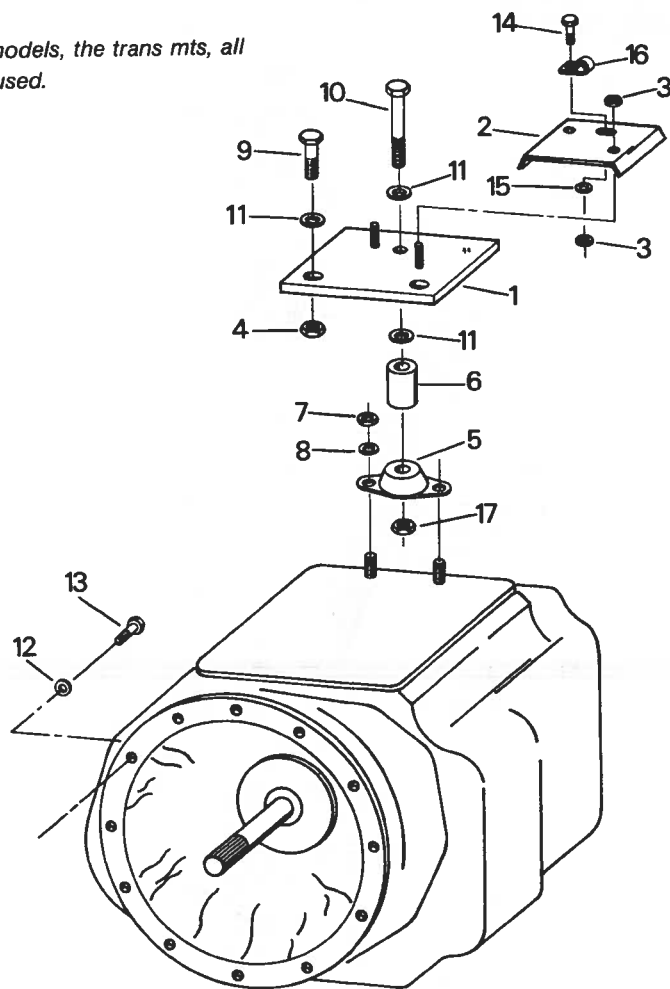
3rd Style

Two Speed Transmission Controls

Ref.	Part No.	Description	Qty.
1	55-181	Bracket, Cable (D) (1st Style)	1
2	04-1014	Bracket, Cable (D) (2nd Style)	1
3	02-3005T1	Bracket, Cable (D)(3rd Style)	1
4	01-2867	Cable (D)	1
5	01-4252	Cable (D)	1
6	19-089	Nut, 1/4 NF	AR
7	19-076	Nut, 1/4 NC	4
8	19-550	Capscrew, 1/4 NC x 1-1/2	2
9	24-206	Bearing	2
10	19-081	Nut, 1/2 NC	2
11	19-1030	Rod End, Male	1
12	19-664	Capscrew, 1/2 NC x 3-1/2	1
13	04-1010	Arm, Linkage	2

Ref.	Part No.	Description	Qty.
14	19-109	Washer, 1/2	2
15	04-1017	Spacer, Linkage	4
16	19-922	Capscrew, 5/16 NC x 5	4
17	19-1031	Rod End, Female	1
18	02-3010T1	Spacer	1
19	02-3009T1	Tab	1
20	19-115	Lock Washer, 1/4	1
21	19-1048	Capscrew, 1/4 NF x 1-1/2	1
22	19-236	Nut, 5/16 NF	2
23	02-3008T1	Shim	1
24	19-5402	U Bolt	1
25	19-509	Lock Nut, 5/16 NF	2

SPECIAL NOTE: ASN 2000 on all models, the trans mts, all items except 12 & 13, are no longer used.

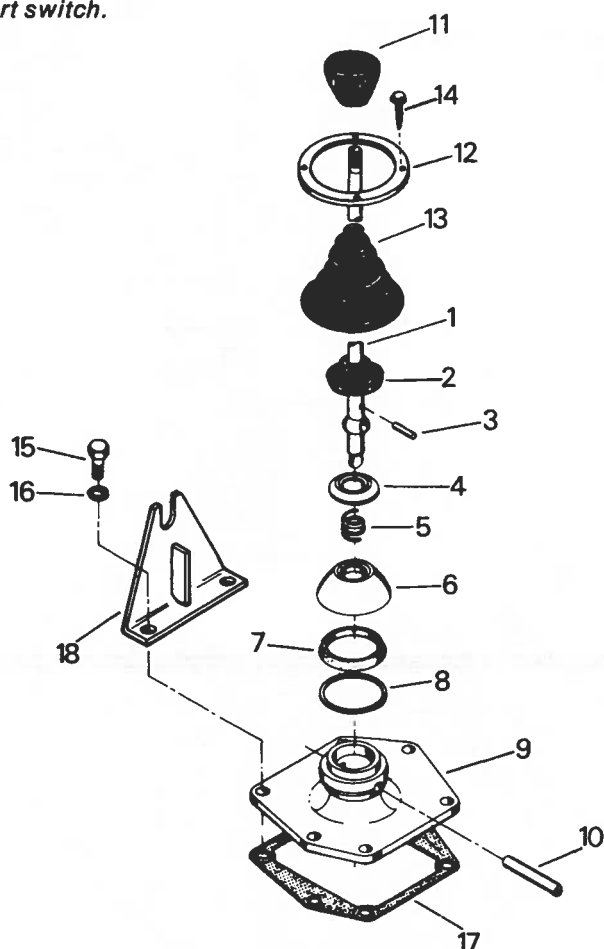


Transmission Mounting

Ref.	Part No.	Description	Qty.
1	01-1631	Plate, Trans. Hanger (D) (Early ST 220, 250, 251, 270, 310 & 320)	1
	01-2170	Plate, Trans Hanger (D) (Early ST 325)	1
	01-2173	Plate, Trans Hanger (D) (all models above ASNB plus all other models)	1
2	12-2036	Clamp (all models except ST 325 BSN 853)	1
	01-2337	Clamp (ST 325 BSN 853)	1
3	19-078	Nut, 7/8 NC	3
4	19-085	Nut, 3/4 NC	2
5	24-230	Insulator	1
6	55-156	Spacer (single speed transfer case)	1
	01-6831	Spacer (2 speed transfer case)	1

Ref.	Part No.	Description	Qty.
7	12-1517	Nut, 5/8 NC	2
8	12-1516	Washer	2
9	19-394	Capscrew, 3/4 NC x 2	2
10	19-614	Capscrew, 3/4 NC x 4-1/2	1
11	19-112	Washer, 3/4	4
12	19-224	Washer, 3/8 (all except w/3406)	12
	19-643	Washer, 7/16 (w/3406)	12
13	19-019	Capscrew, 3/8 NC x 1-1/2 (all except w/3406)	12
	19-371	Capscrew, 7/16 NC x 1-1/2 (w/3406)	12
14	19-016	Capscrew, 3/8 NC x 3/4 (w/903)	1
15	19-107	Washer, 3/8 (w/903)	1
16	32-343	Clamp (w/903)	1
17	19-324	Nut, 3/4 NC	1

NOTE: This bracket is only used on transmissions with the external type neutral start switch.



Shift Tower

Ref.	Part No.	Description	Qty.
1-10	12-1996T91	Tower Assembly (other Models)	1
	12-2042	Tower Assembly (ST 320 & ST 350 only)	
1	12-1995T1	Lever, Shift (other Models)	1
	12-2039	Lever, Shift (ST 320 & ST 350 only)	
2	12-1565	Grommet, Shift Lever	1
3	12-1566	Pin, Shift Lever Collar	1
4	12-1567	Collar, Compression	1
5	12-1568	Spring, Compression	1
6	12-1569	Cup, Compression	1
7	12-1570	Washer, Compression	1

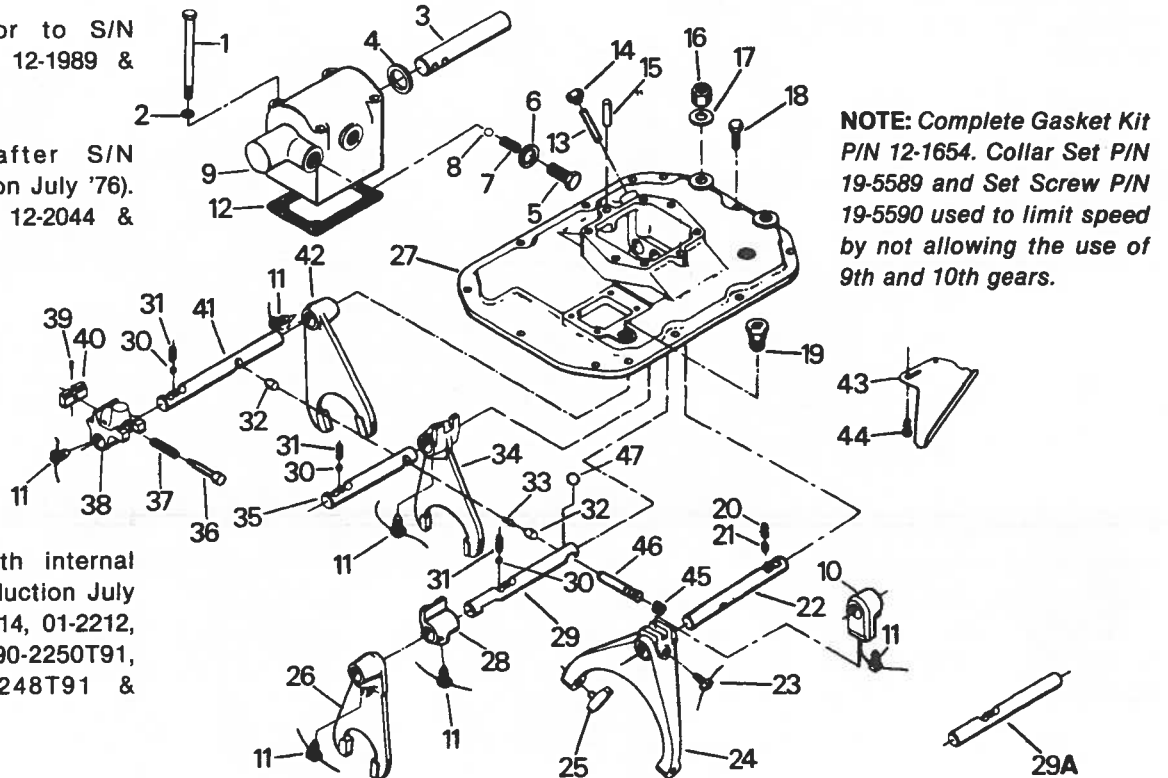
Ref.	Part No.	Description	Qty.
8	12-1573	Snap Ring	1
9	12-422	Cover	1
10	12-1572	Shaft, Shift Lever Rod	1
11	12-008	Ball, Shifter	1
12	54-071	Ring	1
13	24-218	Boot	1
14	19-388	Screw, Tapping, 1/4 x 1-1/4 UNC	4
15	12-1575	Capscrew	6
16	12-1496	Washer	6
17	12-1571	Gasket, Shifter Housing	1
18	01-6109	Bracket, Neutral Start (see Note)	1

NOTE: Shifter Assembly P/N 01-4204 differs from P/N 12-2045 only in that the neutral start parts (Ref. 29 & 45-47) have been added internally. It can be subbed for P/N 12-2045 by either plugging the hole shown in the upper right corner or by ordering new Switch P/N 01-4199 and Gasket P/N 01-4198 which will allow doing away with the external bracket and switch.

*Transmission prior to S/N 2186698. Part Nos. 12-1989 & 12-1988.

**Transmission after S/N 2186698 (In production July '76). Part Nos. 12-2043, 12-2044 & 12-2038.

***Transmission with internal neutral start (In production July '77). Part Nos. 01-2214, 01-2212, 01-2213, 01-9568, 90-2250T91, 90-2251T91, 90-2248T91 & 90-2249T91.



See Page 4-34A for transmission usage & S/N Breaks

Transmission Shifter Housing

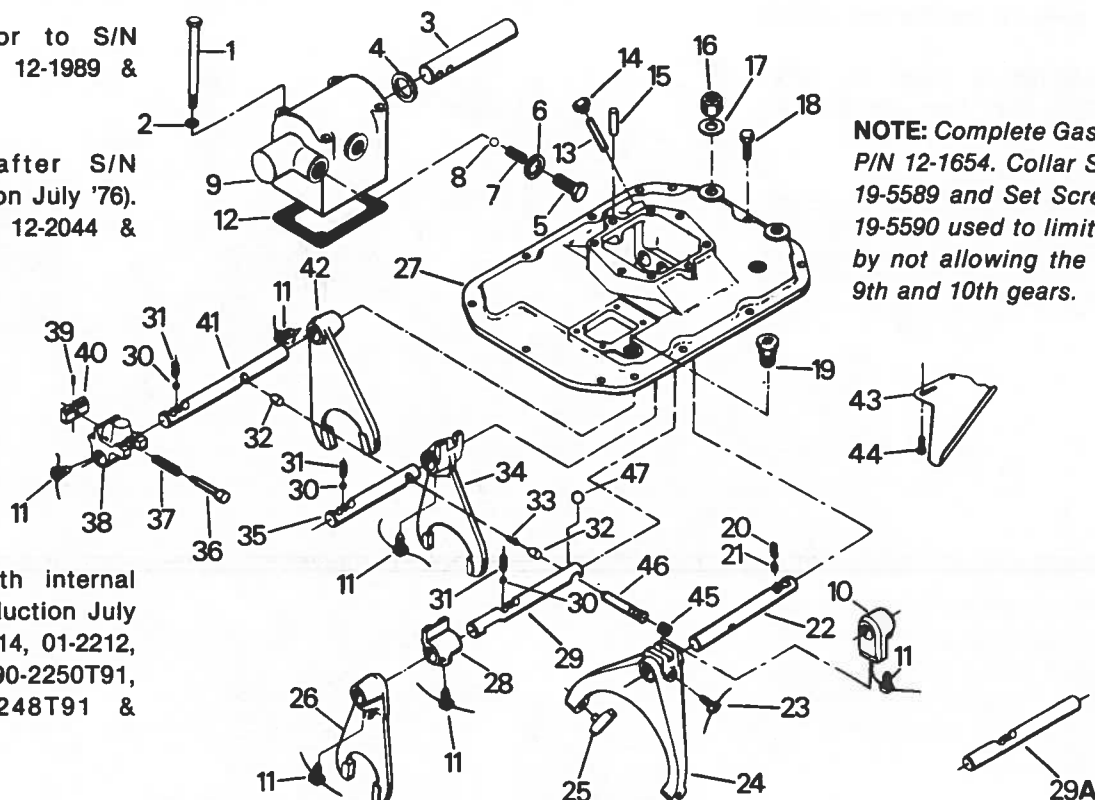
Ref.	Part No.	Description	Qty.
1-42	12-1987	Shifter Housing Sub-Assembly* (see Note)	1
1-44	12-2045	Shifter Housing Sub-Assembly** (see Note)	
1-47	01-4204	Shifter Housing Sub-Assembly*** (see Note)	
1-11	12-1717	Control Housing Sub-Assembly	1
1	19-922	Capscrew, 5/16 x 5 UNC	4
2	12-1544	Lock Washer	4
3	12-1723	Rod, Splitter Control	1
4	12-1724	Seal	1
5	12-1728	Screw, Control Rod Poppet Ball	1
6	12-1616	Washer	1
7	12-1727	Spring, Control Rod Poppet	1
8	12-1726	Ball, Poppet Splitter Control Rod	1
9	12-1725	Housing, Splitter	1
10	12-1721	Finger, Splitter Shift	1
11	12-1550	Screw, Shift Fork & Bracket	6
12	12-1625	Gasket, Splitter Housing	1

Ref.	Part No.	Description	Qty.
13	12-1602	Pin, Back-Up Light	1
14	12-1603	Plug, Back-Up Light Switch Hole	1
15	12-1601	Pin, Blocker	1
16	12-1517	Nut, Mounting Stud	2
17	12-1516	Washer, 5/8	2
18	12-1484	Capscrew, Shifter Housing	14
19	12-1719	Plug, Breather Hole	1
20	12-1582	Spring, Shift Rod Stop Pin	1
21	12-1583	Pin, Stop	1
22	12-1579	Rod, Shift Splitter	1
23	12-1596	Screw, Shift Splitter Fork	1
24	12-1580	Fork, Shift Splitter	1
25	12-1581	Shoe, Splitter Fork	2
26	12-1587	Fork, Shift (7th, 8th, 9th & 10th)	2
27	12-1577	Housing, Shifter* (External Neutral Start)	1
	01-4206	Housing, Shifter**** (Internal Neutral Start) (will replace P/N 12-1577 but hole for Neutral Start Switch must be plugged)	

*Transmission prior to S/N 2186698. Part Nos. 12-1989 & 12-1988.

**Transmission after S/N 2186698 (In production July '76). Part Nos. 12-2043, 12-2044 & 12-2038.

***Transmission with internal neutral start (In production July '77). Part Nos. 01-2214, 01-2212, 01-2213, 01-9568, 90-2250T91, 90-2251T91, 90-2248T91 & 90-2249T91.



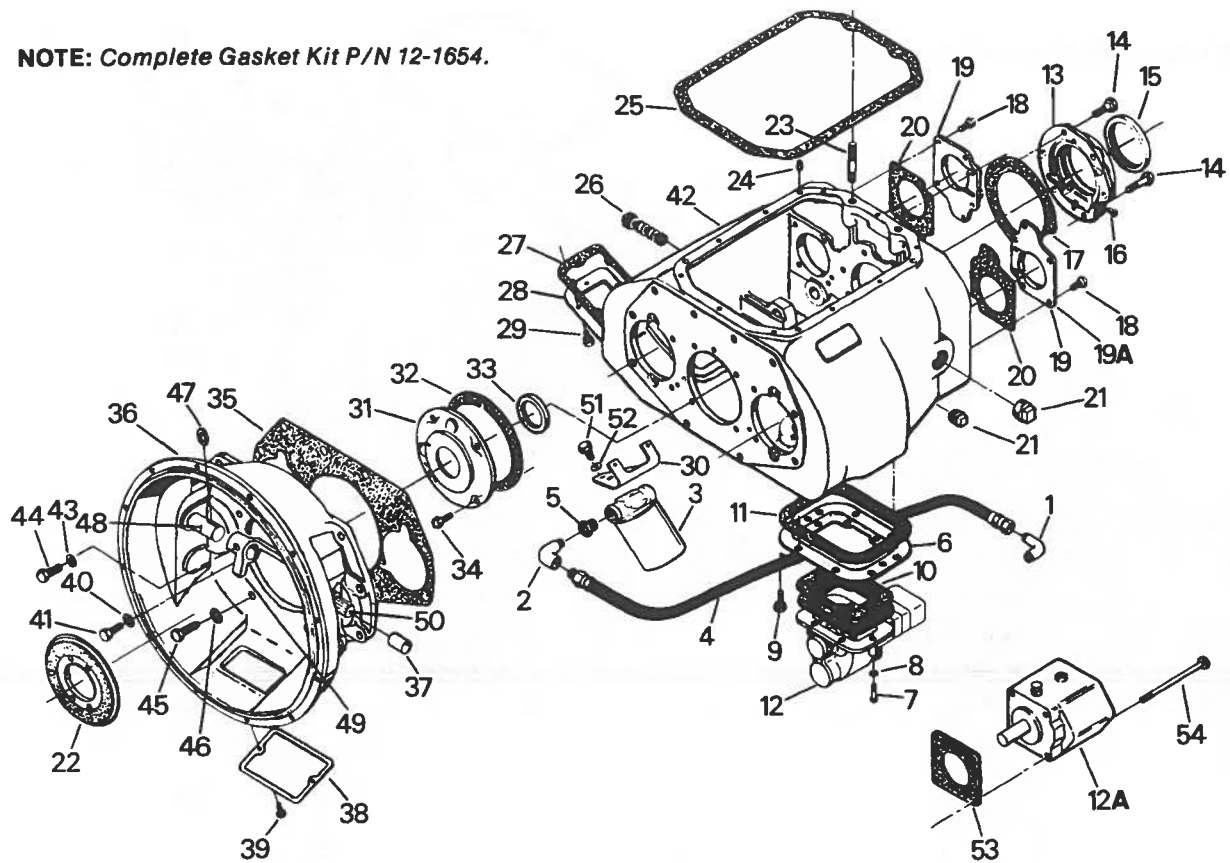
NOTE: Complete Gasket Kit P/N 12-1654. Collar Set P/N 19-5589 and Set Screw P/N 19-5590 used to limit speed by not allowing the use of 9th and 10th gears.

Transmission Shifter Housing

Ref.	Part No.	Description	Qty.
28	12-1588	Bracket, Shift (7th, 8th, 9th & 10th)	1
29	01-4207	Rod, Shift (7th, 8th, 9th & 10th)***	1
29A	12-1586	Rod, Shift (7th, 8th, 9th & 10th)***	1
30	12-1584	Ball, Shift Rod Poppet	3
31	12-1585	Spring, Shift Rod Poppet Ball	3
32	12-1589	Lock	2
33	12-1590	Pin, Lock	1
34	12-1592	Fork, Shift (3rd, 4th, 5th & 6th)	1
35	12-1591	Rod, Shift (3rd, 4th, 5th & 6th)	1
36	12-1597	Pin, Shift Plunger (1st, 2nd & Reverse)	2

Ref.	Part No.	Description	Qty.
37	12-1598	Spring, Shift Finger Plunger	1
38	12-1594	Bracket, Shift (1st, 2nd & Reverse)	1
39	12-1600	Pin, Shift Plunger Pin	1
40	12-1599	Block, Shift Bracket	1
41	12-1593	Rod, Shift (1st, 2nd & Reverse)	1
42	12-1595	Fork, Shift (1st, 2nd & Reverse)*	1
	12-2046	Fork, Shift (1st, 2nd & Reverse)***	1
43	12-2049	Trough****	1
44	12-2048	Screw, Trough****	1
45	01-4203	Spring***	1
46	01-4200	Plunger***	1
47	01-4208	Ball***	1

NOTE: Complete Gasket Kit P/N 12-1654.



*Use on Trans 12-1988 & 12-1989 which were BSN 2186698
 **Use on Later Trans ASN 2186698 (Trans S/N)

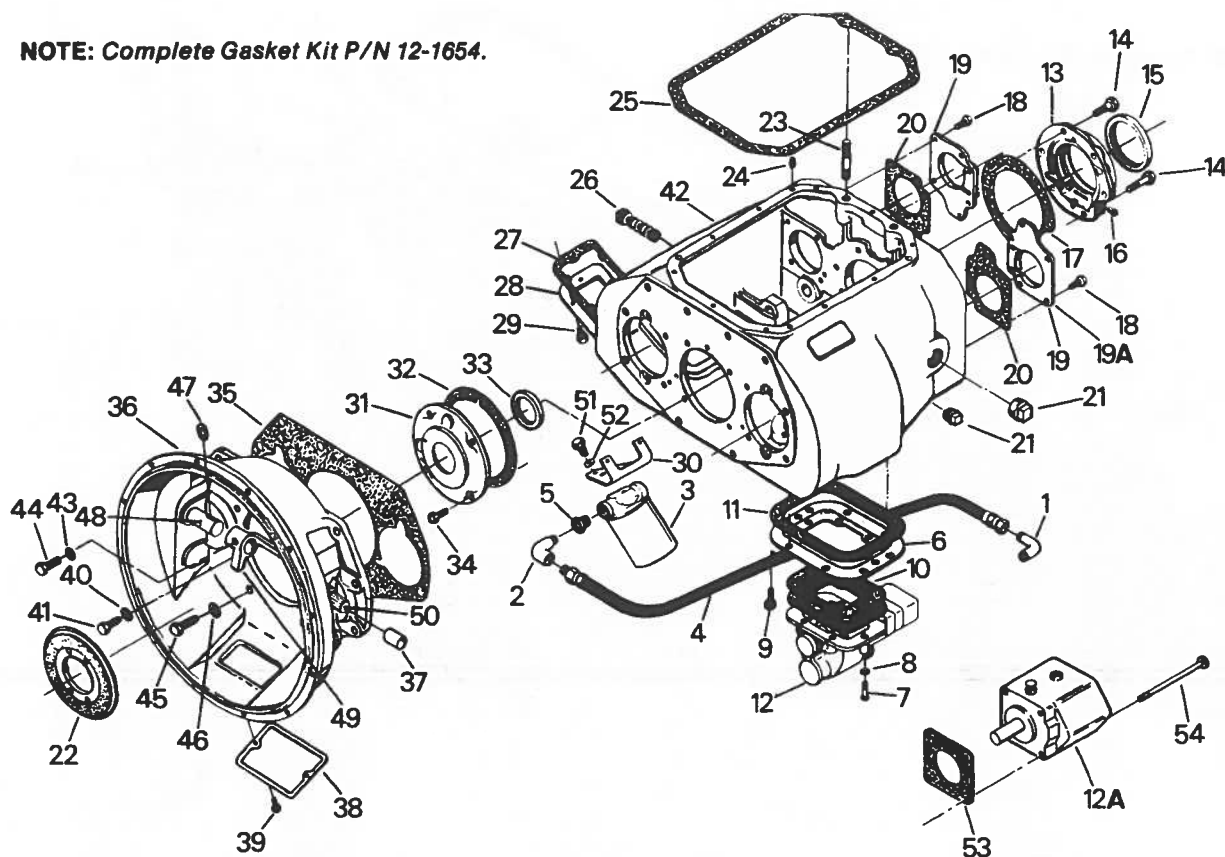
See Page 4-34A for transmission usage & S/N Breaks

Case, Bearing Caps & Related Parts

Ref.	Part No.	Description	Qty.
1	31-466	Elbow	1
2	31-021	Elbow	1
3	12-1665	Filter Assy	1
	18-502	Element	AR
4	12-1663	Hose	1
5	31-012	Reducer	1
6	12-1749	Plate, Adapter (w/bottom mt pump)	1
	12-1493	Cover (w/rear mt pump)	
7	19-024	Capscrew	5
	19-279	Capscrew	1
8	12-2015	Gasket, Copper	6
9	12-1751	Stud Kit (incl following)	1
	19-032	Capscrew	7
	12-2011	Dowel Pin	1
	12-2013	Screw, Flat Head Socket	2
10	12-1994	Gasket (.010)	1
11	12-1748	Gasket (.020)	1
12	12-2055	Pump Assy (Bottom Mt)	1
12A	90-2369T91	Pump Assy (Rear Mt) (after Aug. 80)	1
13	12-1497	Cap & Seal Assy* (incl 15)	1
	12-2050	Cap & Seal Assy** (incl 15)	

Ref.	Part No.	Description	Qty.
14	19-045	Capscrew, 1/2 NC x 1-1/2	4
	19-047	Capscrew, 1/2 NC x 2-1/2	2
15	12-1500	Seal, M/S Rear	1
16	12-1505	Plug, Speedometer Hole	1
17	12-1501	Gasket, Bearing Cap	1
18	19-017	Capscrew, 3/8 NC x 1	10
19	12-1508	Bearing Cap, C/S Rear (qty. 1 with rear mt pump)	2
19A	90-2286T1	Flange (for rear mt pump)	1
20	90-1715T1	Gasket (P/N 12-1509 can be used on R.H. side or on both side/bottom mt pump)	2
21	12-1488	Drain Plug	2
22	13-178	Clutch Brake (1-3/4") (3306 engine & 903 w/320)	1
	13-194	Clutch Brake (2") (855, 3406 & 903 w/350)	
23	12-1515	Stud	2
24	12-1519	Dowel Pin	2
25	12-1514	Gasket, Shifter Housing	1
26	12-1489	Plug	1
27	02-2769	Gasket (repl 12-1705) (B)	1

NOTE: Complete Gasket Kit P/N 12-1654.



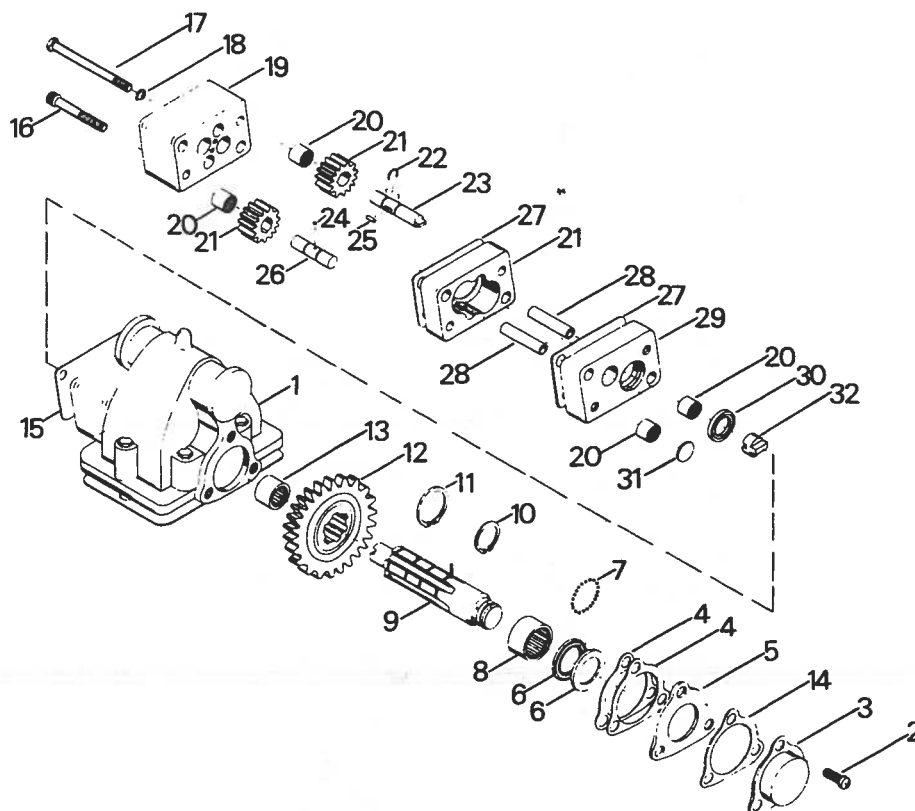
*Use on Trans 12-1988 & 12-1989 which were BSN 2186698

**Use on Later Trans ASN 2186698 (Trans S/N)

Case, Bearing Caps & Related Parts

Ref.	Part No.	Description	Qty.
28	12-1990	Plate*	1
	12-2074	Plate** (except Below)	
	01-4858	Plate (ASN 2000)	
29	19-016	Capscrew, 3/8 NC x 3/4	6
30	12-1664	Bracket, Filter	1
31	12-1480	Cap & Seal (incl 33)	1
32	12-1483	Gasket, Bearing Cap	1
33	12-1482	Seal, Bearing Cap	1
34	19-018	Capscrew, 3/8 NC x 1-1/4	4
35	12-1475	Gasket, Clutch Housing	1
36	12-1470	Clutch Hsg. (all except below)	1
	01-1570	Clutch Hsg. (3406 Cat engine)	
37	12-1471	Bushing (upper holes)	2
38	12-1472	Cover, Clutch Housing	1
39	12-1473	Capscrew	2
40	19-711	Washer	4
41	19-675	Capscrew, 5/8 NC x 1-1/2	10

Ref.	Part No.	Description	Qty.
42	12-1486	Case* (incl 21 & 26)	1
	12-2053	Case** (incl 21 & 26) (will repl 12-1486 but must order 12-2074)	
43	19-118	Lock Washer, 7/16	2
44	65-059	Capscrew, 7/16 NC x 1-3/16	2
45	19-044	Capscrew, 1/2 NC x 1-1/4	2
46	19-463	Washer, 1/2	4
47	13-129	Washer	1
48	13-130	Shaft, Short	1
49	13-079	Yoke, Release	1
50	13-204	Shaft, Long (9")	1
51	19-001	Capscrew, 1/4 NC x 3/4	2
52	19-115	Lock Washer, 1/4	2
53	90-2288T1	Gasket, Pump	1
54	186650	Capscrew, 5/16 NC x 4-3/4	4

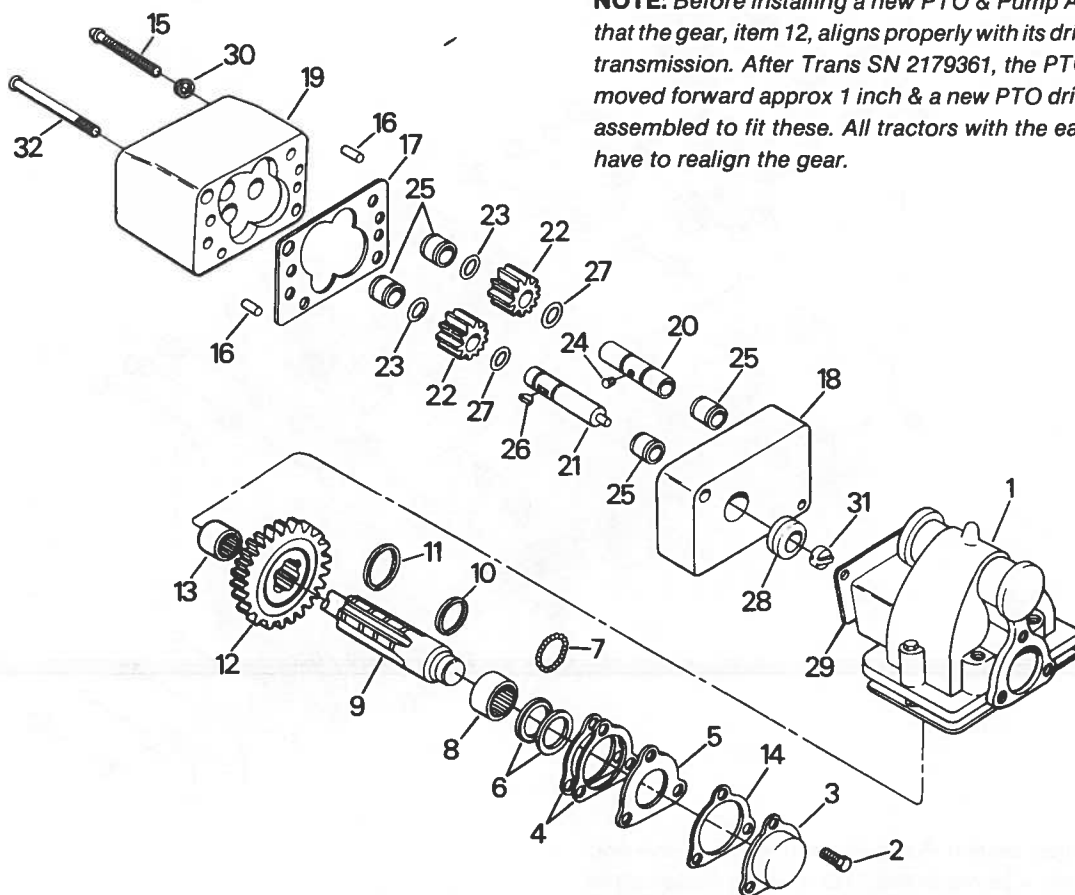


NOTE: This three section Pump is no longer available and must be serviced w/pump or the PTO & Pump Assys on the next page. Service Parts may be available but if not, a complete pump on the next page must be ordered.

Transmission Pump - Three Section

Ref.	Part No.	Description	Qty.
1-32	12-426	PTO & Pump Assy.	1
1-14	12-1722	PTO Assembly	1
15-32	12-1668	Pump Asscmbl	1
1	12-1669	Housing, PTO (includes Ref. 8 & 13)	1
2	12-1670	Capscrew	3
3	12-1671	Cap, Bearing	1
4	12-1672	Gasket	2
5	12-1673	Plate, Thrust	1
6	12-1674	Washer, Thrust	2
7	12-1675	Ball	21
8	12-1676	Bearing, Needle	1
9	12-1677	Shaft, Drive (includes Ref. 6, 7 & 10)	1
10	12-1678	Ring, Retaining	1
11	12-1679	Ring, Retaining	2
12	12-1680	Gear, Drive	1

Ref.	Part No.	Description	Qty.
13	12-1681	Bearing, Needle	1
14	01-2069	Gasket	1
15	12-1682	Gasket	1
16	12-1683	Screw, Socket Head	2
17	12-1684	Screw, Hex Head	2
18	12-1685	Lock Washer	2
19	12-1686	Cover, Rear	1
20	12-1687	Bearing, Needle	4
21	12-1688	Gear & Housing Set	1
22	12-1689	Ring, Snap	4
23	12-1690	Shaft, Drive	1
24	12-1691	Ball	1
25	12-1692	Pin, Drive	1
26	12-1693	Shaft, Idler	1
27	12-1694	Gasket	2
28	12-1695	Dowel	2
29	12-1696	Cover, Front	1
30	12-1697	Seal, Oil	1
31	12-1698	Plug	1
32	12-1699	Coupling	1



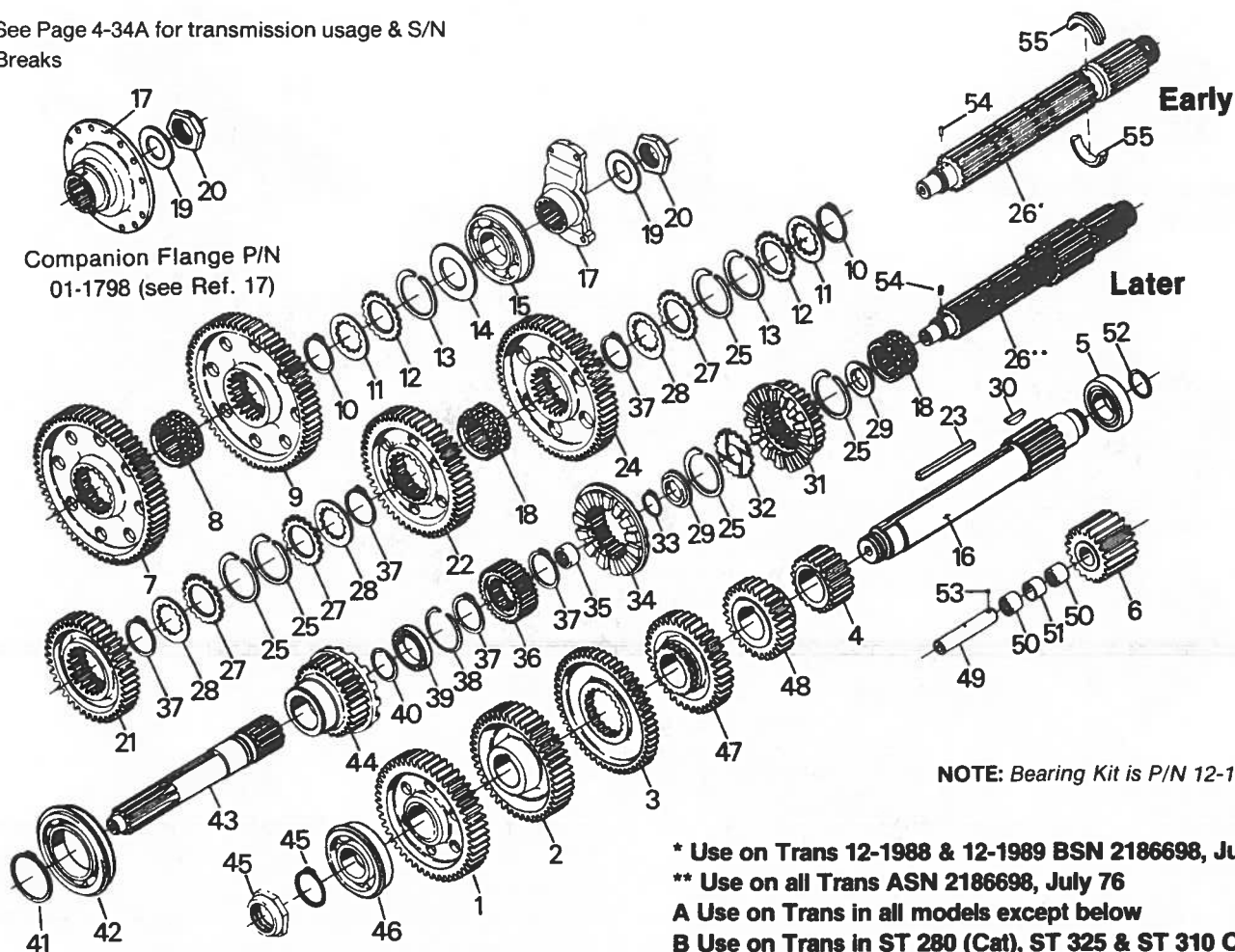
NOTE: Before installing a new PTO & Pump Assy, be certain that the gear, item 12, aligns properly with its driving gear in the transmission. After Trans SN 2179361, the PTO opening was moved forward approx 1 inch & a new PTO drive assy may be assembled to fit these. All tractors with the earlier trans may have to realign the gear.

Transmission Pump - Two Section

Ref.	Part No.	Description	Qty.
1-32	12-2055	PTO & Pump Assembly	1
1-14	12-1722	PTO Assembly	1
15-28	01-2114	Pump Assembly	1
1	12-1669	Housing, PTO (includes Ref. 8 & 13)	1
2	12-1670	Capscrew	3
3	12-1671	Cap, Bearing	1
4	12-1672	Gasket	2
5	12-1673	Thrust Plate	1
6	12-1674	Thrust Washer	2
7	12-1675	Ball	21
8	12-1676	Needle Bearing	1
9	12-1677	Shaft, Drive (includes Ref. 6, 7 & 10)	1
10	12-1678	Retaining Ring	1
11	12-1679	Retaining Ring	2
12	12-1680	Gear, Drive	1
13	12-1681	Needle Bearing	1
14	01-2069	Gasket	1

Ref.	Part No.	Description	Qty.
15	01-2112	Capscrew	4
16	01-2111	Dowel Pin	2
17	01-2113	Gasket	1
18	01-2100	Stator	1
19	01-2101	Housing, Gear	1
20	01-2102	Shaft, Idler	1
21	01-2103	Shaft, Drive	1
22	01-2104	Gear	2
23	01-2105	Snap Ring	2
24	01-2106	Drive Pin	1
25	01-2107	Needle Bearing	4
26	01-2108	Key	1
27	01-2109	Snap Ring	2
28	01-2110	Seal	1
29	12-1682	Gasket	1
30	12-1685	Lock Washer	2
31	12-1699	Coupling	1
32	12-1720	Capscrew	2

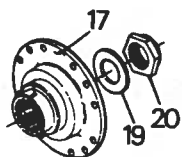
See Page 4-34A for transmission usage & S/N Breaks



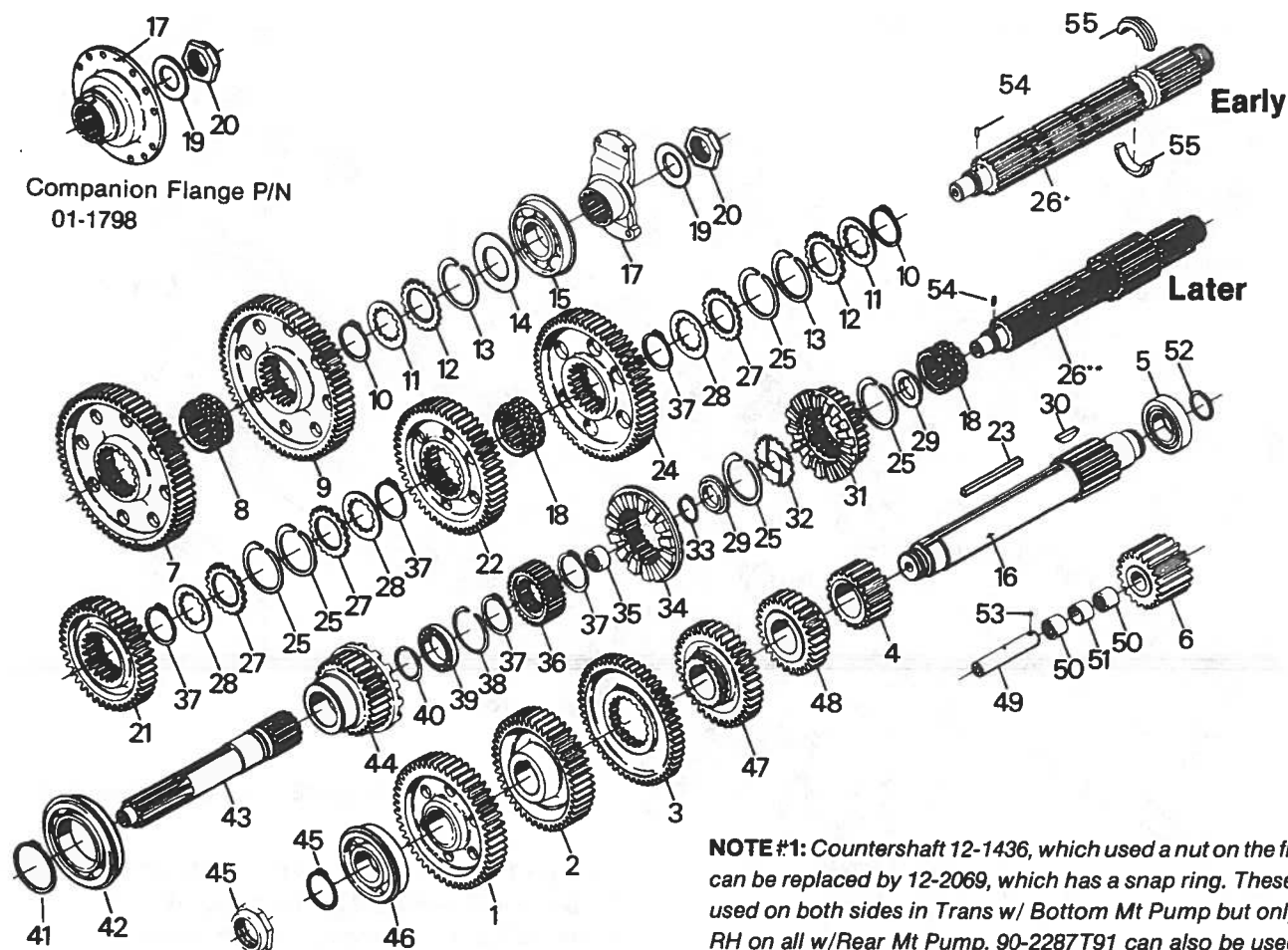
Transmission Gears & Related Parts

Ref.	Part No.	Description	Qty.
1A	12-1438	Gear, C/S Lo Splitter	2
1B	01-1569	Gear, C/S Lo Splitter	2
2A	12-1440	Gear, C/S Hi Splitter	2
2B	01-1568	Gear, C/S Hi Splitter	2
3	12-1441	Gear, PTO Drive	1
3 & 47	12-2052	Gear Kit, LH Countershaft	1
		(w/Bottom Mt. Pump)	1
4	12-1445	Gear, C/S (3rd & 4th)	2
5	12-1447	Bearing (or use following)	2
	90-2178T91	Bearing Kit (incl following)	2
	90-2284T1	Bearing	1
	90-2285T1	Spacer (use ahead of Brg.)	1
6	12-1451	Gear, Reverse Idler	2
7	12-1426	Gear, M/S (1st & 2nd)*	1
	12-2067	Gear, M/S (1str & 2nd)**	1
8	12-1418	Collar, M/S (1st, 2nd & Rev)*	1
	12-2070	Collar, M/S (1st, 2nd & Rev)**	1
9	12-1427	Gear, M/S (Rev)*	1
	12-2068	Gear, M/S (Rev)**	1
10	12-1420	Snap Ring*	2
	12-2062	Snap Ring**	2
11	12-1421	Thrust Washer*	2
	12-2059	Thrust Washer**	2

Ref.	Part No.	Description	Qty.
12	12-1422	Thrust Washer*	2
	12-2060	Thrust Washer**	2
13	12-1417	Snap Ring*	2
	12-2061	Snap Ring**	2
14	12-1429	Thrust Washer*	1
	12-2057	Thrust Washer**	1
15	12-1430	Bearing, M/S Rear	1
16	12-2069	Countershaft (Repl 12-1436)	1
		(B) (Note 1)	
	90-2287T91	Countershaft (LH w/Rear Mt Pump) (Note 1)	1
17	01-1798	Flange (w/1 Speed Box)	1
	60-371	Yoke (w/2 Speed Box)	1
18	12-1418	Collar, M/S	2
19	12-1434	Washer	1
20	12-2056	Nut**	1
	12-1435	Nut*	1
21	12-1419	Gear, M/S (7th & 8th)	1
22	12-1423	Gear, M/S (5th & 6th)	1
23	12-2065	Key (Repl 12-1439 & 12-1444) (B)	2
			2
24	12-1425	Gear, M/S (3rd & 4th)	1
25	12-1417	Snap Ring	5



Companion Flange P/N
01-1798



NOTE #1: Countershaft 12-1436, which used a nut on the front, can be replaced by 12-2069, which has a snap ring. These are used on both sides in Trans w/ Bottom Mt Pump but only on RH on all w/Rear Mt Pump. 90-2287T91 can also be used on RH side as only difference is adapter hole for pump.

Transmission Gears & Related Parts

Ref.	Part No.	Description	Qty.
26	12-1411	Mainshaft*	1
	12-2064	Mainshaft**	1
27	12-1422	Thrust Washer*	3
	12-2058	Thrust Washer**	3
28	12-1421	Thrust Washer	3
29	12-1414	Thrust Washer	2
30	12-1446	Key	2
31	12-1412	Gear, M/S (9th & 10th)	1
32	12-1416	Thrust Washer	1
33	12-1413	Snap Ring	1
34	12-1408	Collar, Splitter	1
35	12-1407	Bearing, Input Shaft Pocket	1
36	12-1409	Gear, Clutch	1
37	12-1420	Snap Ring	5
38	12-1406	Snap Ring	1
39	12-1405	Bearing, Input Shaft, Rear	1
40	12-1404	Snap Ring	1
41	12-1402	Snap Ring	1
42	12-1403	Bearing, Input Shaft, Front	1
43	13-195	Input Shaft (2")	1
		(3406, 855 & 903 w/350)	
	12-1400	Input Shaft (1-3/4)	
		(3306 & 903 w/320)	

Ref.	Part No.	Description	Qty.
44A	12-1401	Drive Gear (26 tooth)	1
44B	01-1562	Drive Gear (36 tooth)	
45	12-1435	Nut	2
	12-2063	Snap Ring	2
46	12-1437	Bearing, C/S (Front)	2
47	12-1442	Gear, LH C/S (7th & 8th)	1
		(w/Bottom Mt Pump)	
	12-2066	Gear, C/S (7th & 8th)	1
		(RH w/Bottom Mt Pump,	
		Both w/Rear Mt)	
48	12-1443	Gear, C/S (5th & 6th)	2
49	12-1449	Shaft, Rev. Idler	2
50	12-1452	Bearing, Rev. Idler Shaft	4
51	12-1453	Spacer, Bearing	2
52	12-1448	Snap Ring (not needed)	2
53	12-1450	Ball, Rev. Idler Shaft	2
54	12-1415	Pin	2
55	12-1428	Split Ring* Main Shaft	1

Transmission Usage Chart

	Variation #1	Variation #2	Variation #3	Variation #4
Version A	12-1989	12-1988		
Version B	12-2043	12-2044	12-2038	
Version C	01-2214	01-2212	01-2213	01-9568
Version D	90-2250T91	90-2251T91	90-2248T91	90-2249T91
Equipment Variations	1-3/4" Input Shaft 12-1470 Clutch Hsg 10th Gear Direct	2" Input Shaft 12-1470 Clutch Hsg 10th Gear Direct	2" Input Shaft 01-1570 Clutch Hsg 9th Gear Direct	2" Input Shaft 12-1470 Clutch Hsg 9th Gear Direct
Models Used On	ST 225, ST 250 ST 270, ST 320	ST 220, ST 251 ST 251CP, ST 310 ST 280 (Cu), ST 350	ST 280 (Cat) ST 325	ST 310CP

Serial No. Breaks

Model & *Variation	Version A	Version B	Version C	Version D
ST 225 *(1)	NA	NA	109-00001	109-00017
ST 250 *(1)	104-00001	104-00192	104-00297	104-01001
ST 270 *(1)	105-00001	105-00156	105-00426	105-00956
ST 320 *(1)	108-00001	108-00129	108-00197	NA
ST 220 *(2)	103-00001	103-00138	103-00218	NA
ST 251CP *(2)	106-00001	106-00099	106-00291	106-00868
ST 310 *(2)	107-00001	107-00201	107-00457	NA
ST 280(Cu) *(2)	NA	NA	NA	110-00001
ST 350 *(2)	NA	NA	139-00001	139-00066
ST 280(Cat) *(3)	NA	NA	NA	111-00001
ST 325 *(3)	NA	123-00001	123-00326	123-01027
ST 310CP *(4)	NA	NA	107-00517	107-00971

The different versions in the above transmissions are as a result of upgrades and changes to the basic variation as follows:

Version B: New internal snap rings and washers, new case and rear cap

Version C: Internal neutral start switch and parts

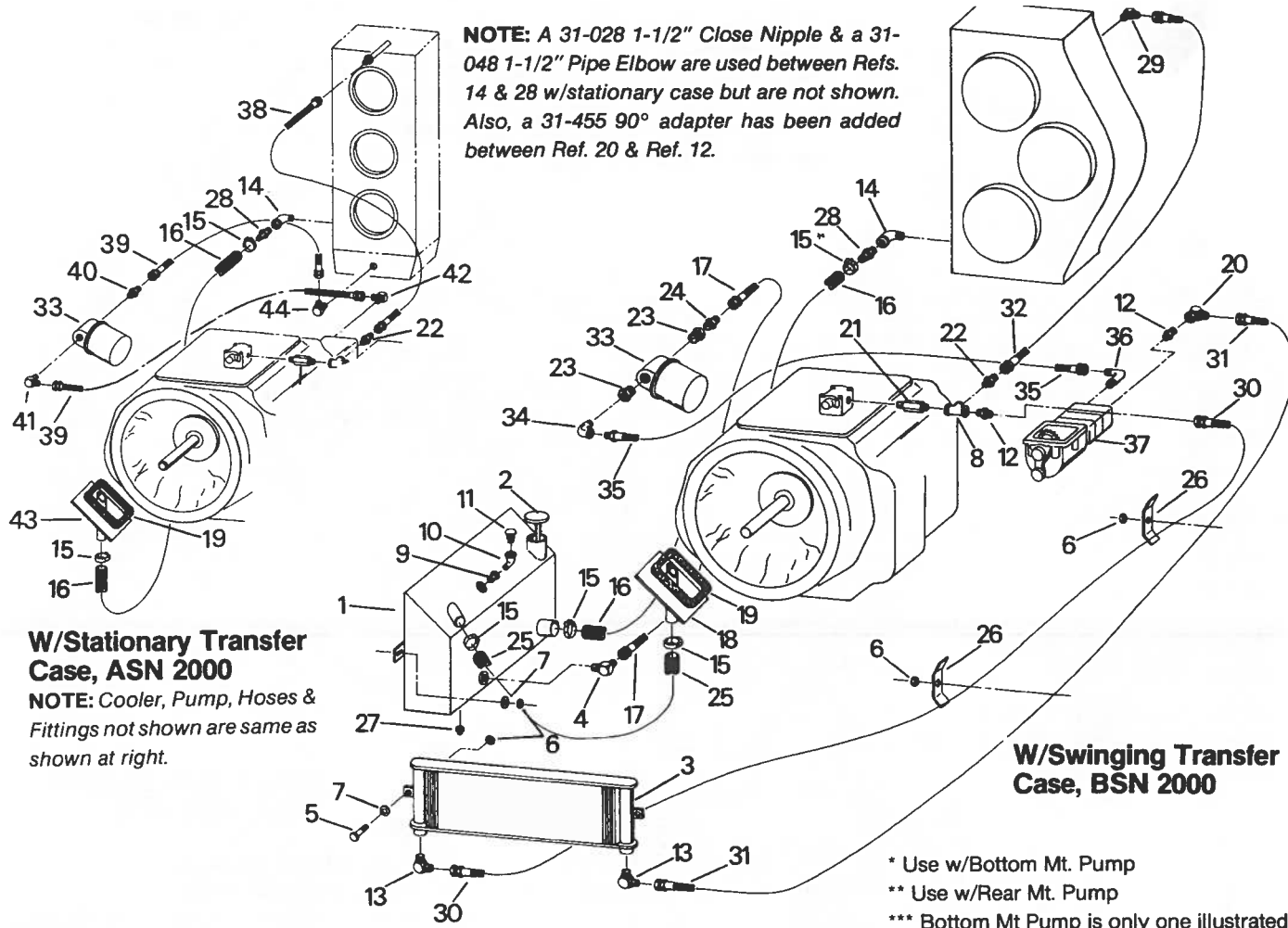
Version D: Rear mounted Lube Pump (will not replace earlier versions unless hoses are changed and cannot be used on tractors w/single speed transfer case)

Versions B & C will replace prior version with only minor adjustments. When replacing Version A, the drain plate must also be ordered.

March 1984

Product	Quantity	Unit Price	Total Price	Notes
1000000	1000000	1.00	1000000.00	
1000000	1000000	1.00	1000000.00	
1000000	1000000	1.00	1000000.00	
1000000	1000000	1.00	1000000.00	
1000000	1000000	1.00	1000000.00	
1000000	1000000	1.00	1000000.00	
1000000	1000000	1.00	1000000.00	
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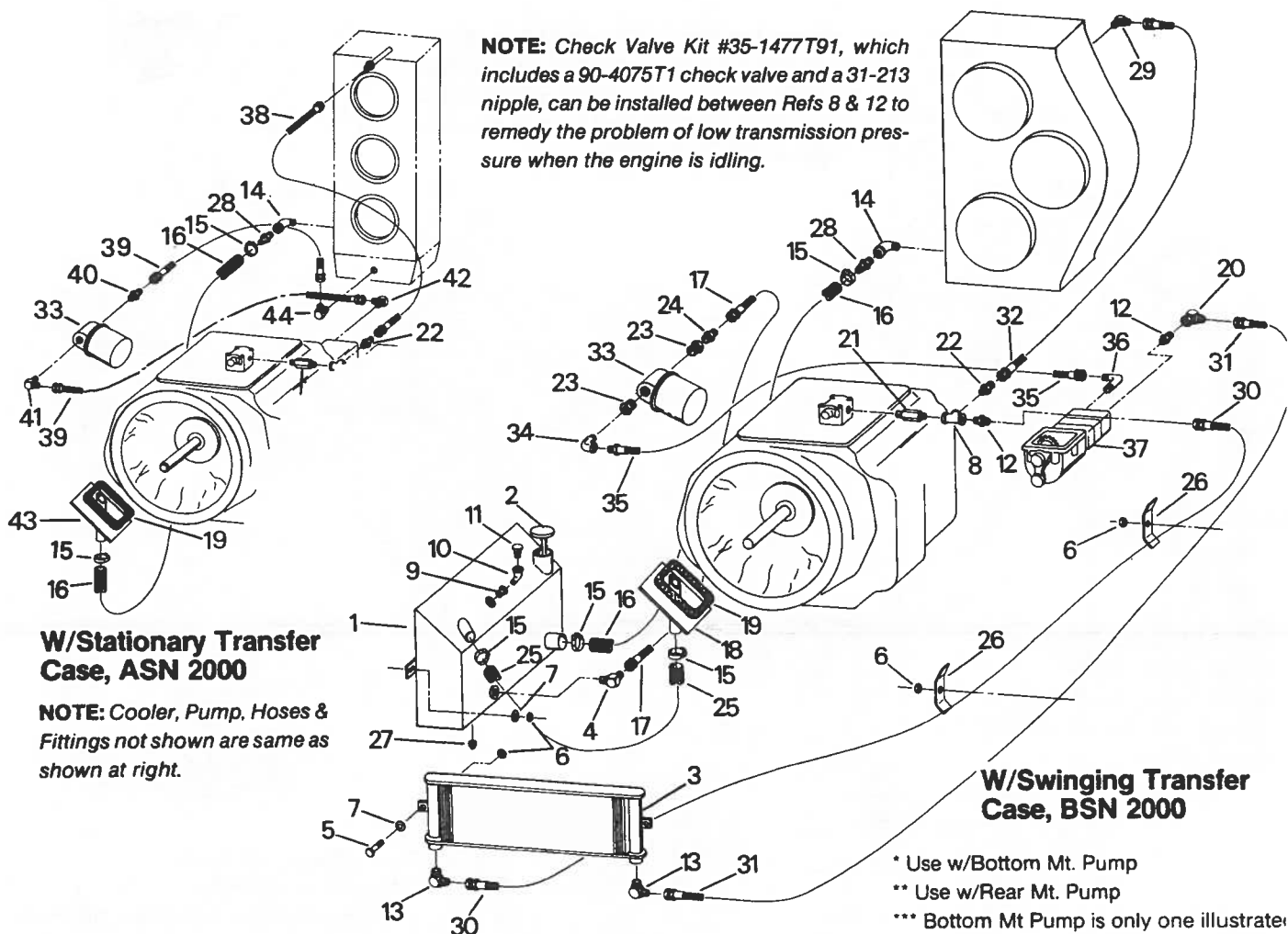
Product	Quantity	Unit Price	Total Price	Notes
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1000000	1000000	1.00	1000000.00	
1000000	1000000	1.00	1000000.00	
1000000	1000000	1.00	1000000.00	
1000000	1000000	1.00	1000000.00	



Drive Train Lube Systems

Ref.	Part No.	Description	Qty.
1	01-371	Tank (D)	1
	50-1402T1	Tank (D)	
2	06-1506	Dipstick	1
3	10-039	Cooler, Oil	1
4	18-587	Elbow*	1
	31-399	Elbow**	1
5	19-017	Capscrew, 3/8 NC x 1	2
	19-133	Capscrew, 3/8 NC x 4 (w/Hyd Cooler)	2
6	19-078	Nut, 3/8 NC	7
7	19-107	Washer, 3/8	5
8	31-031	Tee	1
9	31-073	Reducer	1
10	31-076	St. Elbow	1
11	31-303	Breather	1
12	31-319	Fitting	2
13	31-340	Elbow	2
14	31-475	St. Elbow (w/single speed)	1
	31-024	St. Elbow (w/2-speed)	
15	01-1348	Clamp	4
16	31-1052	Hose (w/Cummins 903)	1
	32-158	Hose (all other engines)	

Ref.	Part No.	Description	Qty.
17	32-202	Hose	1
	31-1589	Hose**	1
18	12-1990	Cover (use w/trans P/N 12-1988 & 12-1989)	1
	12-2074	Cover (use w/all except above)	
19	02-2769	Gasket	1
20	31-1001	Fitting	1
21	18-1039	Orifice	1
22	18-1084	Adapter	1
23	31-012	Reducer (not used w/Rear Mt Pump)	2
24	31-411	Adapter*	1
	31-364	Adapter**	
25	18-1739	Hose (w/903 Cummins engine)	1
	32-249	Hose (w/others)	
26	51-243	Clamp	2
27	31-034	Plug	1
28	31-373	King Nipple	1
29	31-490	Elbow (Single Speed Box)	1
	01-2547	Elbow (on Early 2 Speed Box)	1
	31-1355	Tee (on Later 2 Speed Box)	1

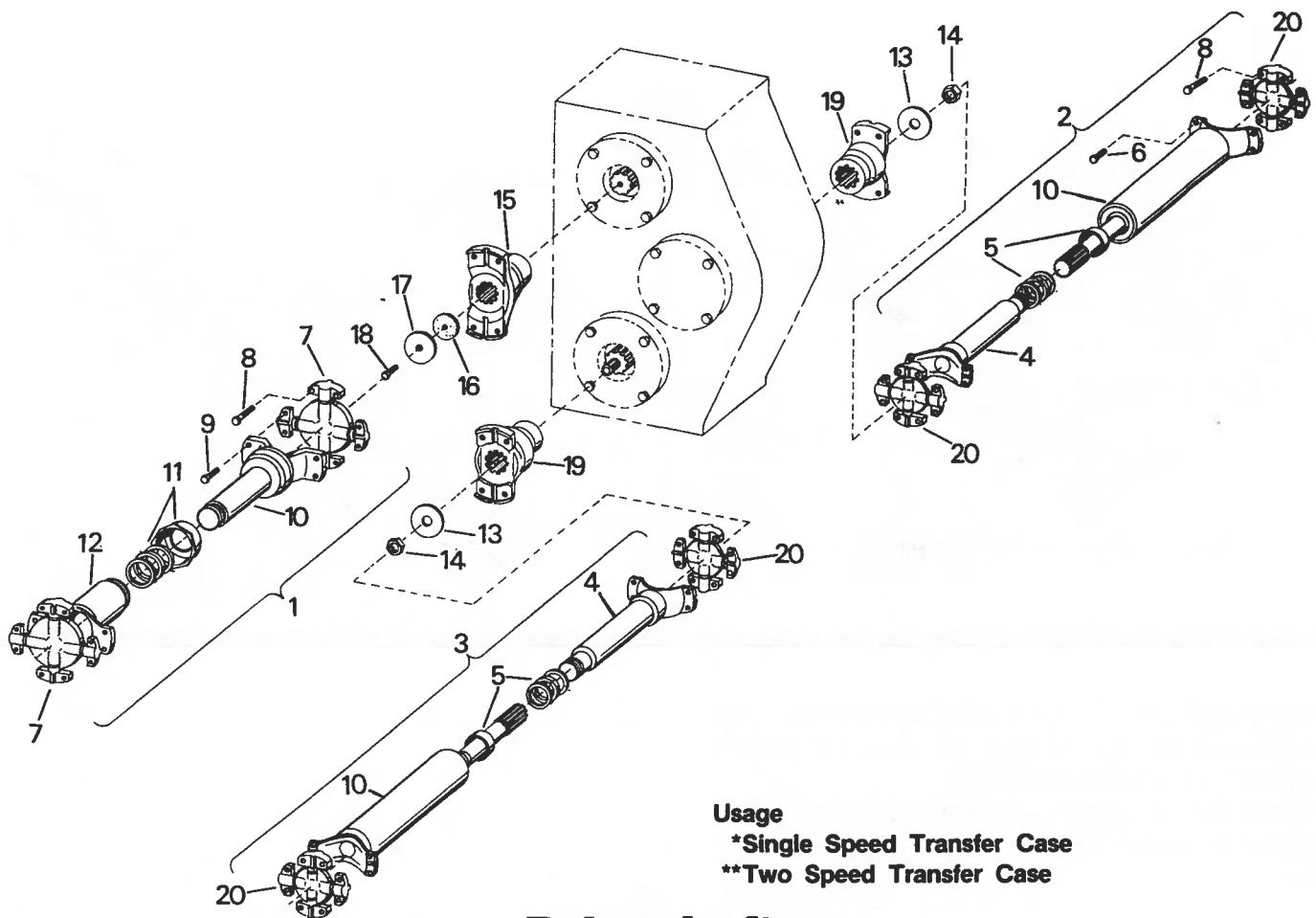


Drive Train Lube Systems

Ref.	Part No.	Description	Qty.
30	18-541	Hose (all BSN 2000 & w/Cummins 903 ASN 2000)	1
	31-2039	Hose (all ASN 2000 except w/Cummins 903)	
31	18-1738	Hose*	1
	18-541	Hose**	
32	31-1252	Hose (w/903 Cummins Engine)	1
	32-216	Hose (w/others)	
33	12-1665	Filter Assy	1
	18-502	Element (For Above)	1
34	31-021	Elbow*	1
	31-400	Elbow**	
35	12-1663	Hose*	1
	31-1590	Hose** (except below)	
	31-1904	Hose (ST 350 ASN 2000)	
36	31-466	Elbow*	1
	31-1475	Elbow**	

Ref.	Part No.	Description	Qty.
37	***	Pump (see Page 4-30 for Rear Mt Pump & pages 4-31 & 4-32 for Bottom Mt Pump)	
38	32-150	Hose	1
39	31-1590	Hose	2
40	31-364	Fitting	1
41	31-400	Elbow	1
42	31-1475	Elbow	1
43	01-4858	Cover, Drain	1
44	31-400	Elbow, 90° (all except below)	1
	31-416	Elbow, 45° (ST 350)	1

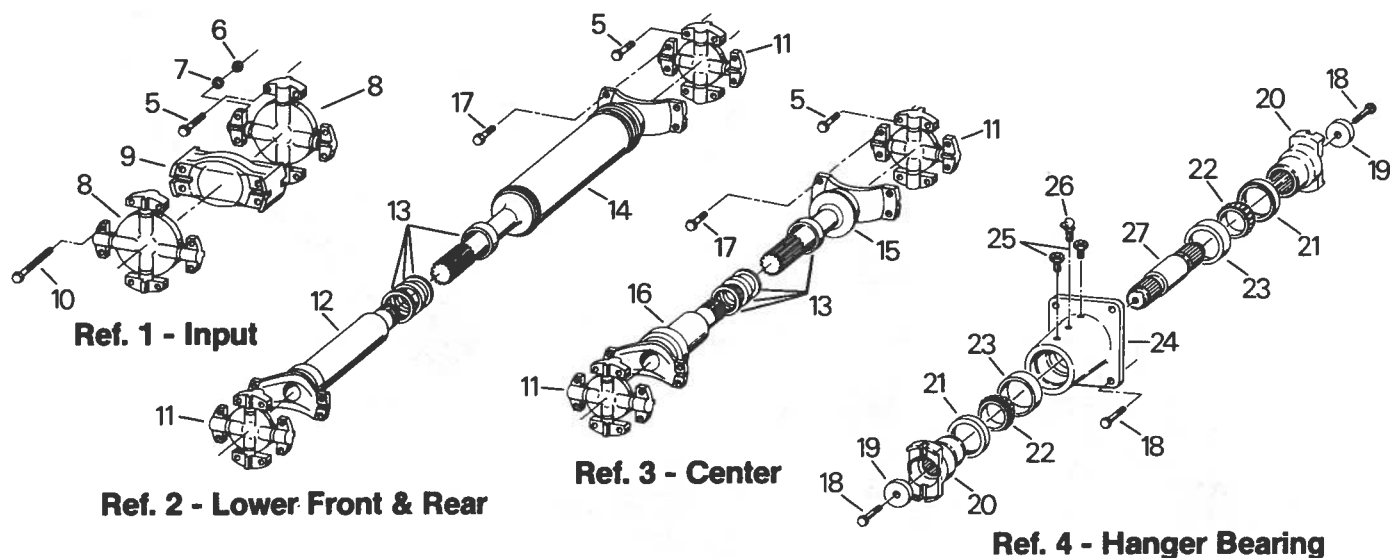
NOTE: The stationary Transfer Case w/the Caliper Brakes became standard on all ST models at Serial Number 2000 (ASN2000). This change affects many items such as Drive-shafts, Brakes, Transfer Case, Center Yoke, Engine Mts, Hyd Hoses & Wiring. Whenever "ASN2000" appears, it is referencing the Serial # break for this change.



Driveshafts w/Swinging Transfer Cases

Ref.	Part No.	Description	Qty.
1	17-140	Driveshaft, Input (all except w/903)	1
	17-134	Driveshaft, Input* (w/903)	1
	65-145	Driveshaft, Input** (w/903)	1
2	17-259	Driveshaft, Rear*	1
	01-1863	Driveshaft, Rear**	1
3	17-270T91	Driveshaft, Lower Front* (17-270) (B)	1
	01-1864	Driveshaft, Lower Front**	1
4	02-1161	Slip Yoke	1
5	02-3843T1	Cap & Seal Kit (Repl 17-170, 17-171 & 17-172) (B)	1
6	19-918	Capscrew	8
7	17-156	Spider & Bearing Kit	2
8	19-477	Capscrew	8
9	17-163	Capscrew	8
10	NSS	Tube Assys	

Ref.	Part No.	Description	Qty.
11	02-3842T1	Cap & Seal Kit (Repl 17-160, 17-161 & 17-162) (B)	1
12	17-203	Slip Yoke	1
13	19-163	Washer (2 speed only, see items 16, 17 & 18 for single speed)	2
14	14-059	Nut (same usage as #13)	2
15	01-2210	Yoke (Repl 17-135) (B)	1
16	42-025	Gasket (on Bottom of single speed also)	3
17	42-026	Washer (see 16)	3
18	19-044	Capscrew 1/2 NC x 1-1/4	3
19	01-2209	Yoke, Bottom	2
20	17-201T1	Spider & Bearing Kit (17-201) (B)	2



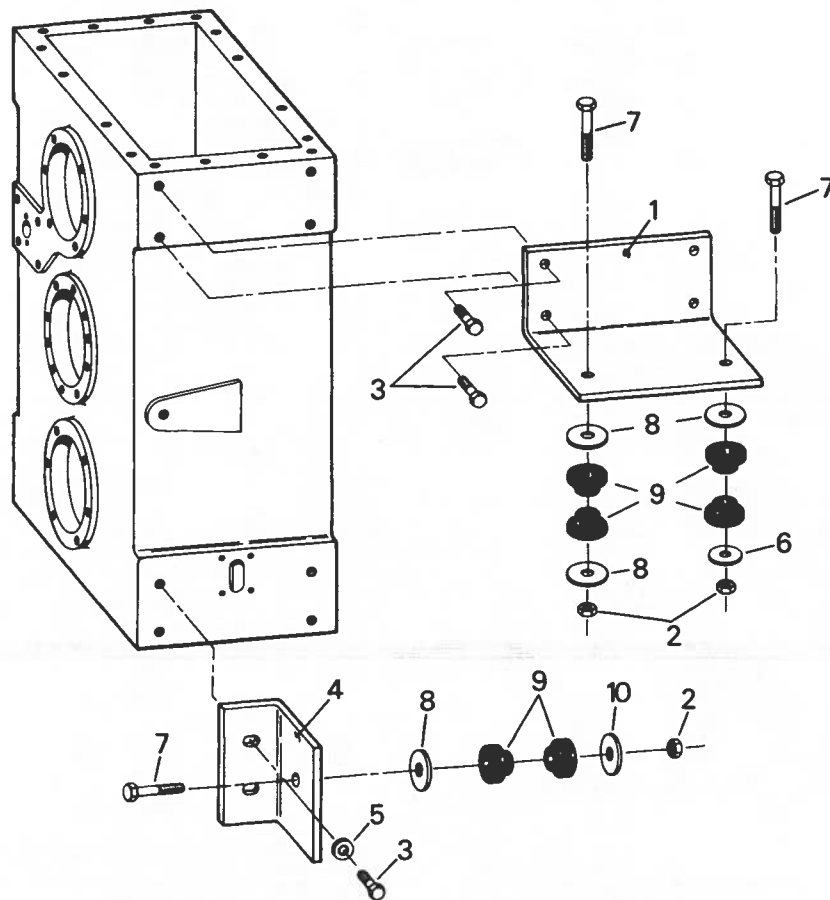
***NOTE:** Refs. 9, 12 & 14-16 may not be purchased separately; therefore, if any of these items are needed, a complete driveshaft Assy must be purchased.

****NOTE:** Ref. 1, 01-3249T91 may also be available as Part No. 90-2853T91, which is the same except that it includes Ref. 5 also.

Driveshafts w/Stationary Transfer Case (ASN 2000)

Ref.	Part No.	Description	Qty.
1	01-3249T91	Driveshaft Assy (Input)** (incl refs. 6-10) (all except ST 350)	1
	90-1050T92	Driveshaft Assy (Input) (ST 350)	
2	90-2205T92	Driveshaft Assy (Lower Front) (90-2205T91) (B)	1
	17-270T91	Driveshaft Assy (Lower Rear) (17-270) (B) (incl Refs. 11-14 & 17)	1
3	01-3233T91	Driveshaft Assy (Center) (01-3233) (B) (incl Refs. 11, 13 & 15-17)	1
4	90-2690T91	Hanger Bearing (incl refs. 18-27)	1
5	19-477	Capscrew	AR
6	19-1060	Nut	4
7	19-119	Lock Washer	4
8	01-9994T1	Spider & Bearing Kit	2
9	NSS	Coupling Yoke*	1
10	274102	Capscrew	4
11	17-201T1	Spider & Bearing Kit (17-201) (B)	2

Ref.	Part No.	Description	Qty.
12	NSS	Slip Yoke*	1
13	02-3843T1	Stuffing Cap Assy (incl P/N's 17-170, 17-172 & 17-171 which may no longer be purchased separately)	1
14	NSS	Tube Assy*	1
15	NSS	Stub Yoke*	1
16	NSS	Slip Yoke*	1
17	19-918	Capscrew	AR
18	19-822	Capscrew	6
19	19-5864	Washer	2
20	90-2687T1	Yoke	2
21	90-1934T2	Seal (90-1934T1) (B)	1
22	90-1862T1	Bearing Cone	2
23	90-1322T1	Bearing Cup	2
24	90-2689T1	Housing	1
25	178779	Relief Fitting (not used on later models)	2
26	31-093	Grease Fitting	1
27	19-1930T1	Shaft	1

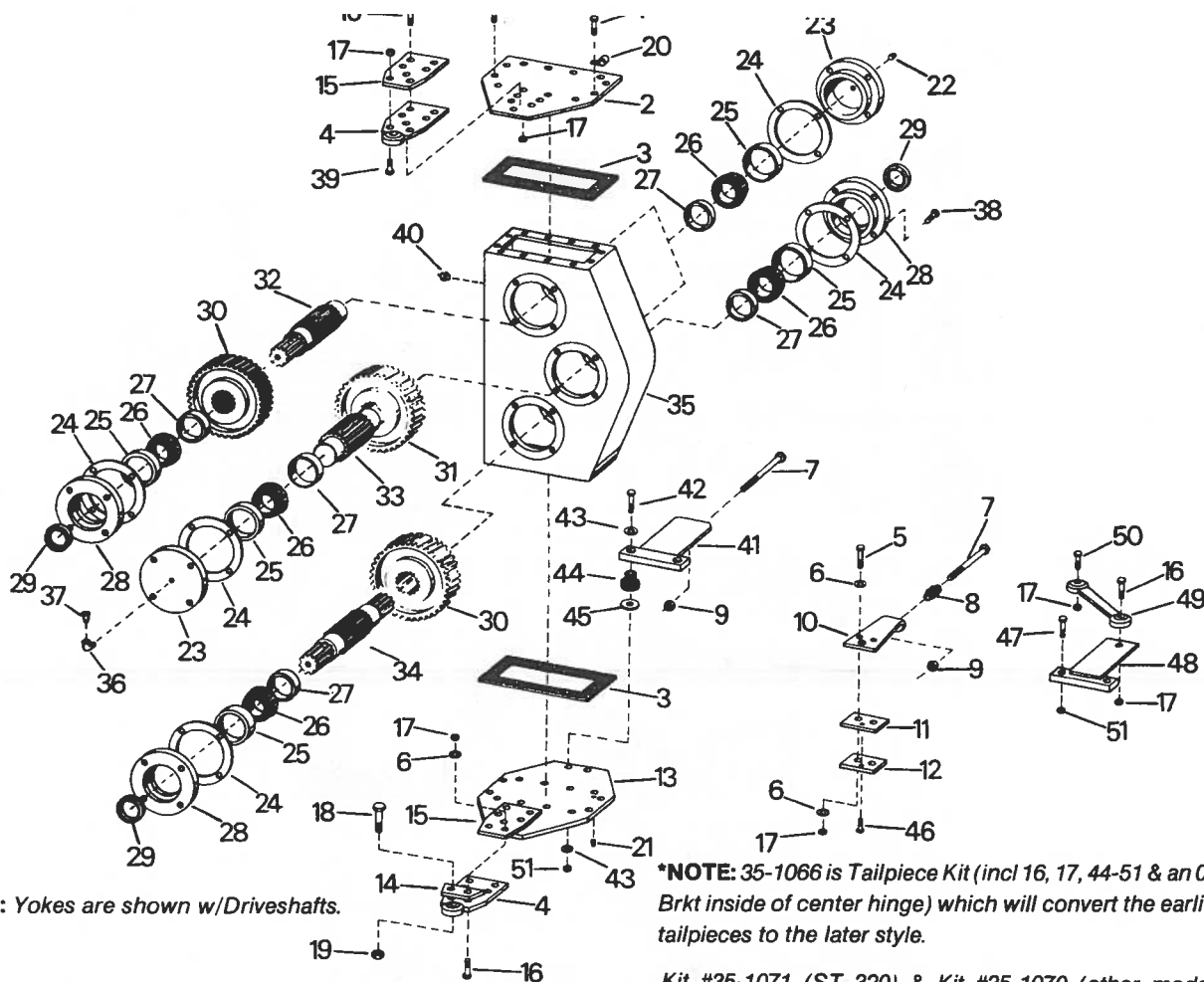


Transfer Case Mounting

Stationary Style (ASN 2000)

Ref.	Part No.	Description	Qty.
1	01-3350	Transfer Case Mount	2
2	19-222	Lock Nut	6
3	19-059	Capscrew	12
4	90-1870T1	Transfer Case Mount	2
5	19-711	Washer	4
6	19-408	Washer	2

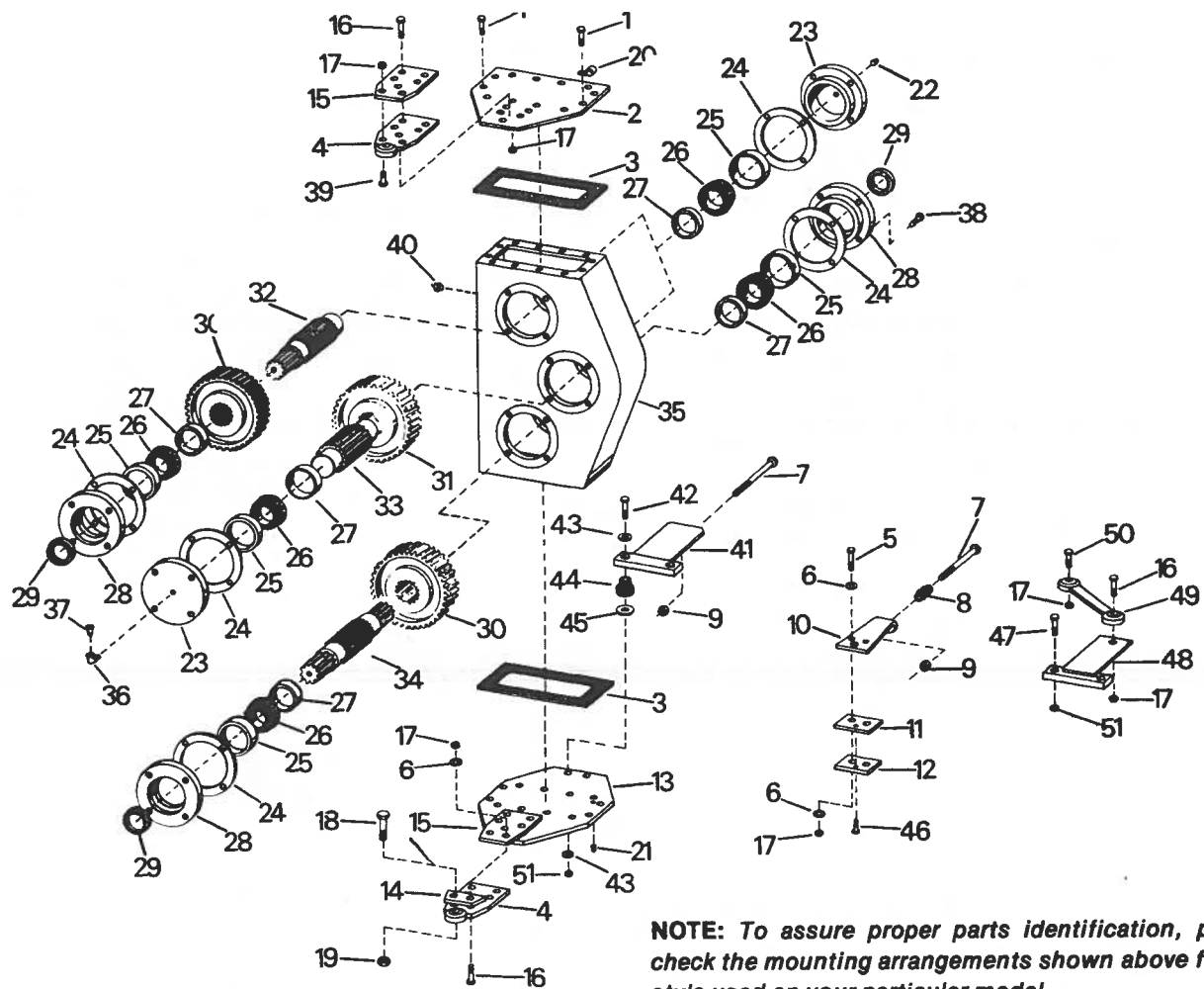
Ref.	Part No.	Description	Qty.
7	19-256	Capscrew	6
8	51-128	Washer	8
9	01-3548	Isolator	12
10	19-408	Washer (Right)	1
	51-128	Washer (Left)	1



Single-Speed Transfer Case & Mounting

Ref.	Part No.	Description	Qty.
1-62	35-1060	Transfer Case Sub-Assy (incl 3, 22-38)	1
1	19-059	Capscrew, 5/8 NC x 1-1/2	24
2	52-020	Top Link	1
3	52-048	Gasket	2
4	52-141	Bearing Plate (other Models)	2
	14-1002	Bearing Plate (ST 320 only)	
5	19-566	Capscrew, 3/4 NC x 3-1/2	2
6	19-112	Washer, 3/4	20
7	19-908	Capscrew, 1 NF x 6-1/2	1
8	33-064	Boot	1
9	19-1006	Jam Nut, 1" NF	1
10	52-138	Tailpiece (Service w/35-1066)*	1
11	52-145	Spacer (3/4" thick)	1
12	52-146	Spacer (1-1/4" thick)	1
13	52-137	Bottom Link (Early style) (23 3/8" long)	1
	14-1003	Bottom Link (Later styles) (21" long)	
14	52-144	Spacer	1
15	52-143	Plate (other Models)	2
	14-1001	Plate (ST 320 only)	
16	19-063	Capscrew, 3/4 NC x 1-1/2	13

Ref.	Part No.	Description	Qty.
17	19-085	Lock Nut, 3/4 NC	17
18	19-422	Capscrew, 1 NF x 4-1/2 (Early style)	2
	19-5352	Capscrew, 1 NC x 4-1/2 (Later styles)	
19	19-098	Nut, 1 NF (Early style)	2
	18-859	Nut, 1 NC (Later styles)	2
20	01-2191	Clamp	1
21	31-037	Pipe Plug, 1/4"	1
22	31-036	Pipe Plug, 3/8"	1
23	52-088	Bearing Cap	3
24	14-154	Shim (.005)	6
	14-155	Shim (.0075)	6
	14-156	Shim (.202)	6
25	14-151	Cup	6
26	14-152	Cone	6
27	52-135	Spacer	6
28	42-016	Cap, End	3
29	14-153	Seal	3
30	42-049	Gear	2
31	42-071	Gear	1
32	52-133	Shaft, Input	1

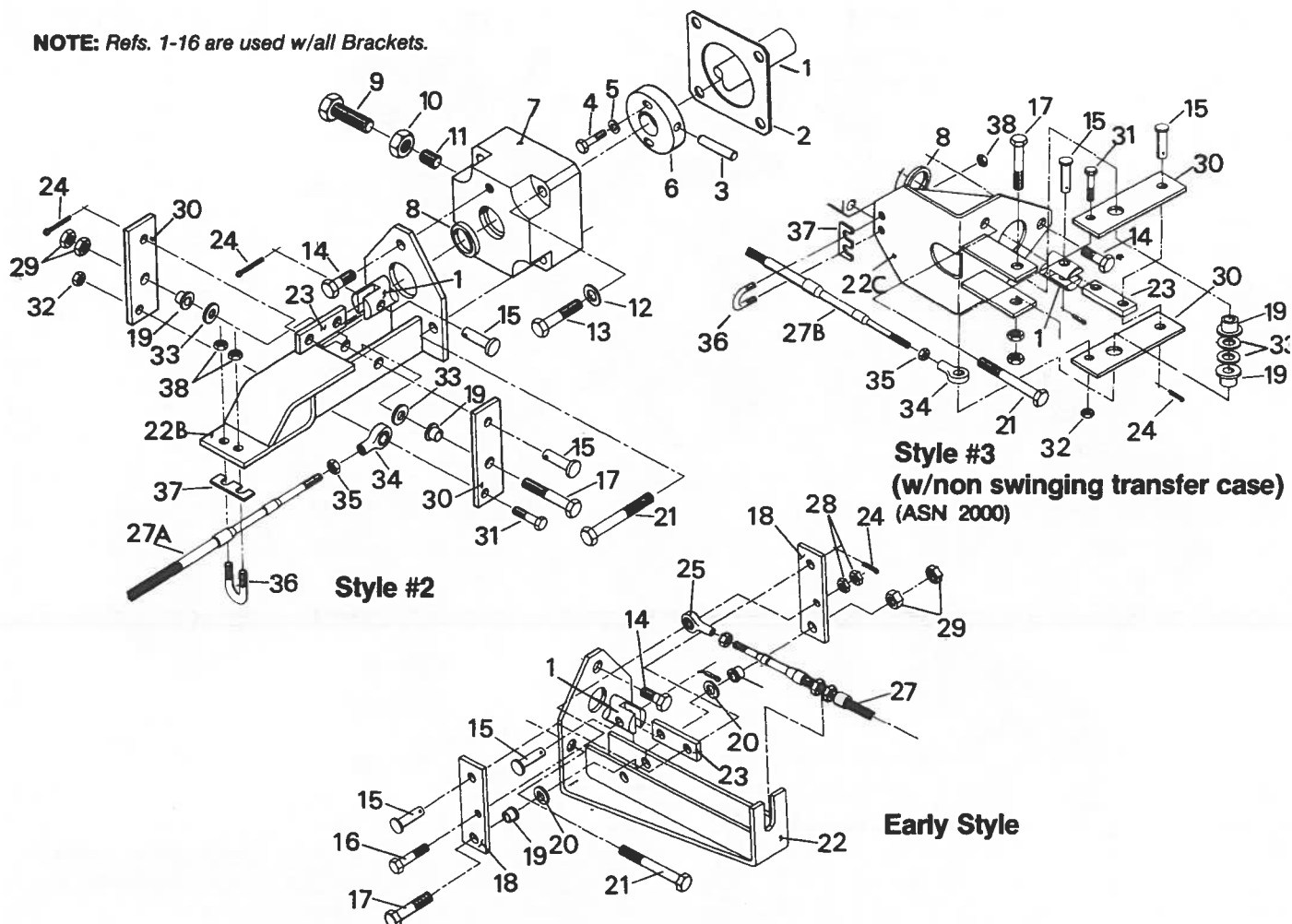


Single-Speed Transfer Case & Mounting

Ref.	Part No.	Description	Qty.
33	52-132	Shaft, Middle	1
34	52-134	Shaft, Output	1
35	52-002	Transfer Case	1
36	31-219	Street Elbow	1
37	31-303	Breather	1
38	19-046	Capscrew, 1/2 NC x 2	24
39	19-066	Capscrew, 3/4 NC x 1-1/2	2
40	31-336	Plug	1
41	14-1007	Tailpiece (service w/35-1066)*	1
42	19-256	Capscrew, 5/8 NC x 4	2

Ref.	Part No.	Description	Qty.
43	19-111	Washer, 5/8	2
44	06-1414	Mount, Rubber	2
45	51-128	Washer, Rubber Mount	2
46	19-042	Capscrew, 1/2 NC x 2-1/4	1
47	19-061	Capscrew, 5/8 NC x 2-1/2	2
48	01-3829	Tailpiece	1
49	52-024	Link	1
50	19-767	Capscrew, 3/4 NC x 2-3/4	1
51	19-222	Lock Nut, 5/8 NC	2

NOTE: Refs. 1-16 are used w/all Brackets.



Two-Speed Transfer Case Shifters

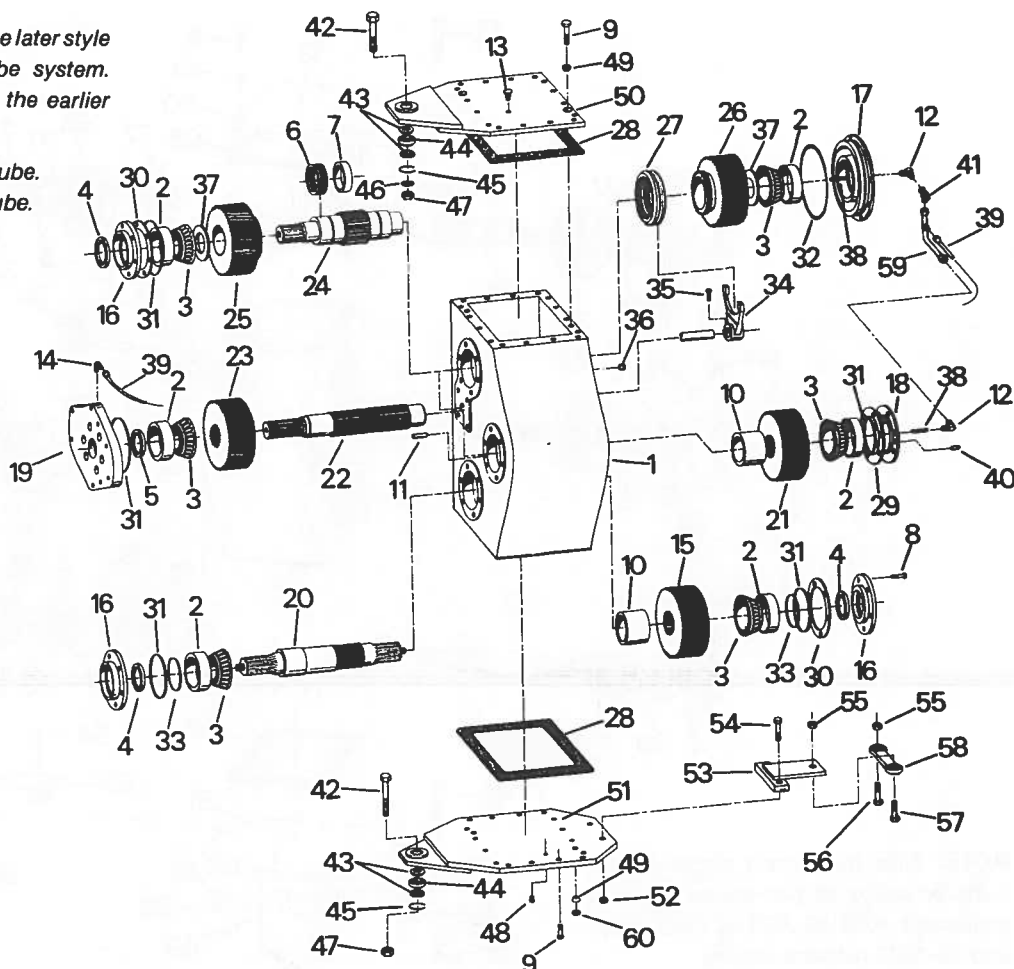
Ref.	Part No.	Description	Qty.
1	01-3550	Rod, Shifter	1
2	01-2300	Shim	1
3	19-1115	Pin	1
4	19-019	Capscrew	2
5	19-306	Washer	2
6	01-2548	Block, Adjust	1
7	01-1889	Block, Detent	1
8	01-1850	Seal	1
9	19-059	Capscrew	1
10	19-083	Nut	1
11	01-1852	Plunger, Ball	1
12	19-224	Washer	2
13	19-022	Capscrew	2
14	19-017	Capscrew	1
15	19-145	Clevis Pin	2
16	19-211	Capscrew	1
17	19-741	Capscrew	1
18	01-1905	Lever, Linkage	2
19	24-206	Bearing	2
20	19-463	Washer	2
21	19-395	Capscrew	2

Ref.	Part No.	Description	Qty.
22	01-1902	Bracket, Cable (Early) (D)	1
22B	02-3000T2	Bracket, Cable (2nd style) (D)	1
22C	01-3559T2	Bracket, Cable (Latest) (D)	1
23	01-3555	Arm, Linkage	1
24	19-238	Cotter Pin	2
25	19-1031	Rod End, Female	1
26	19-089	Nut, 1/4 NF	2
27	01-3685	Cable, 2 Speed (D)	1
27A	01-4252	Cable, 2 Speed (D)	1
27B	01-3561	Cable, 2 Speed (ASN 2000)	1
28	19-076	Nut	2
29	19-081	Nut	2
30	01-3557T1	Lever, Linkage	2
31	19-008	Capscrew	1
32	19-802	Locknut	1
33	19-463	Washer (not necessary on some)	2
34	01-3332	Rod End, Female	1
35	19-236	Jam Nut	1
36	19-5402	U Bolt	1
37	02-3008T1	Shim	1
38	19-509	Locknut	2

NOTE #1: This illustration shows the later style case assy w/the center shaft lube system. Optional parts that were used on the earlier case are identified as follows:

*used on case w/center shaft lube.

**used on case w/o center shaft lube.

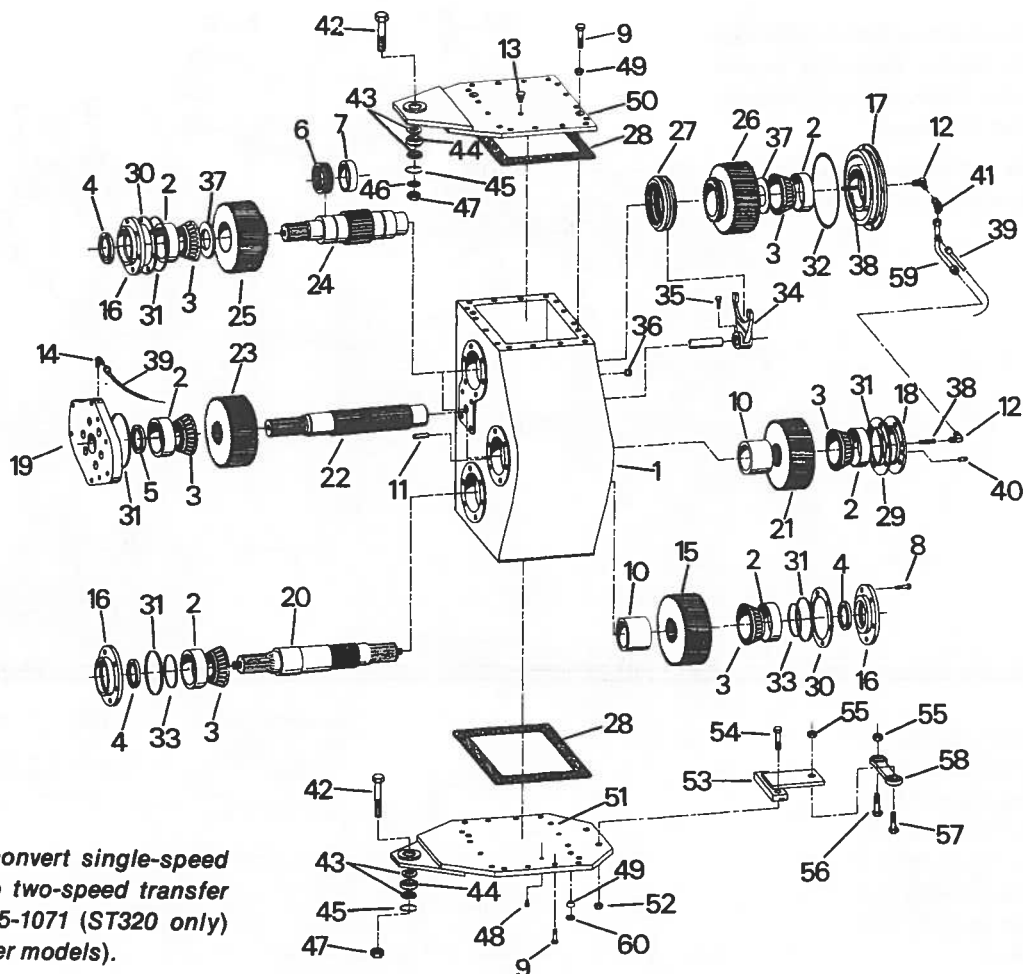


NOTE #2: 01-2257 cap can be serviced w/01-9069 but the breather must be moved to top cover as used in late style (required 3/8 pipe thread tapped in cover) & the 01-9069 cap needs a 1/8 pipe plug, 31-038, to fill the hole in it.

Two Speed Transfer Case

Swinging Style BSN 2000

Ref.	Part No.	Description	Qty.	Ref.	Part No.	Description	Qty.
1	01-2319	Transfer Case	1	18	01-2257	Cap** (can service w/01-9069) (see Note #2)	1
2	01-2255	Cup	6		01-9069	Cap*	1
3	01-2256	Cone	6	19	01-2266	Plate, Inside	1
4	14-153	Seal	3	20	01-2306	Shaft, Output	1
5	01-2287	Seal	1	21	01-2291	Gear	1
6	01-2273	Bearing, Needle	4	22	01-2292	Shaft** (service w/01-6967)	1
7	01-2274	Spacer, Bearing	2	23	01-2282	Gear	1
8	19-044	Capscrew, 1/2 NC x 1-1/4	38	24	01-2307	Shaft, Input	
9	19-045	Capscrew, 1/2 NC x 1-1/2	32	25	01-2316	Gear	1
10	01-2285	Spacer, Gear	2	26	01-2310	Gear	1
11	01-1857	Pin, Dowel	2	27	01-2258	Clutch	1
12	31-474	Elbow*	2	28	01-2322	Gasket	1
	31-219	Elbow**	1	29	01-2293	Shim, .005	1
13	31-303	Breather (is located in middle rear Bearing Cap on Cases w/o Center Shaft Lube & needs 31-219 Elbow)	1		01-2294	Shim, .007	1
					01-2295	Shim, .020	1
14	31-661	Elbow*	1	30	01-2296	Shim, .005	2
	31-599	Elbow**	1		01-2297	Shim, .007	2
15	01-2268	Gear	1		01-2298	Shim, .020	2
16	01-2262	Cap	3	31	01-2271	O-Ring	5
17	01-2264	Cap	1	32	01-2270	O-Ring	1
				33	01-2269	O-Ring	2
				34	01-2550	Fork, Shifter	1

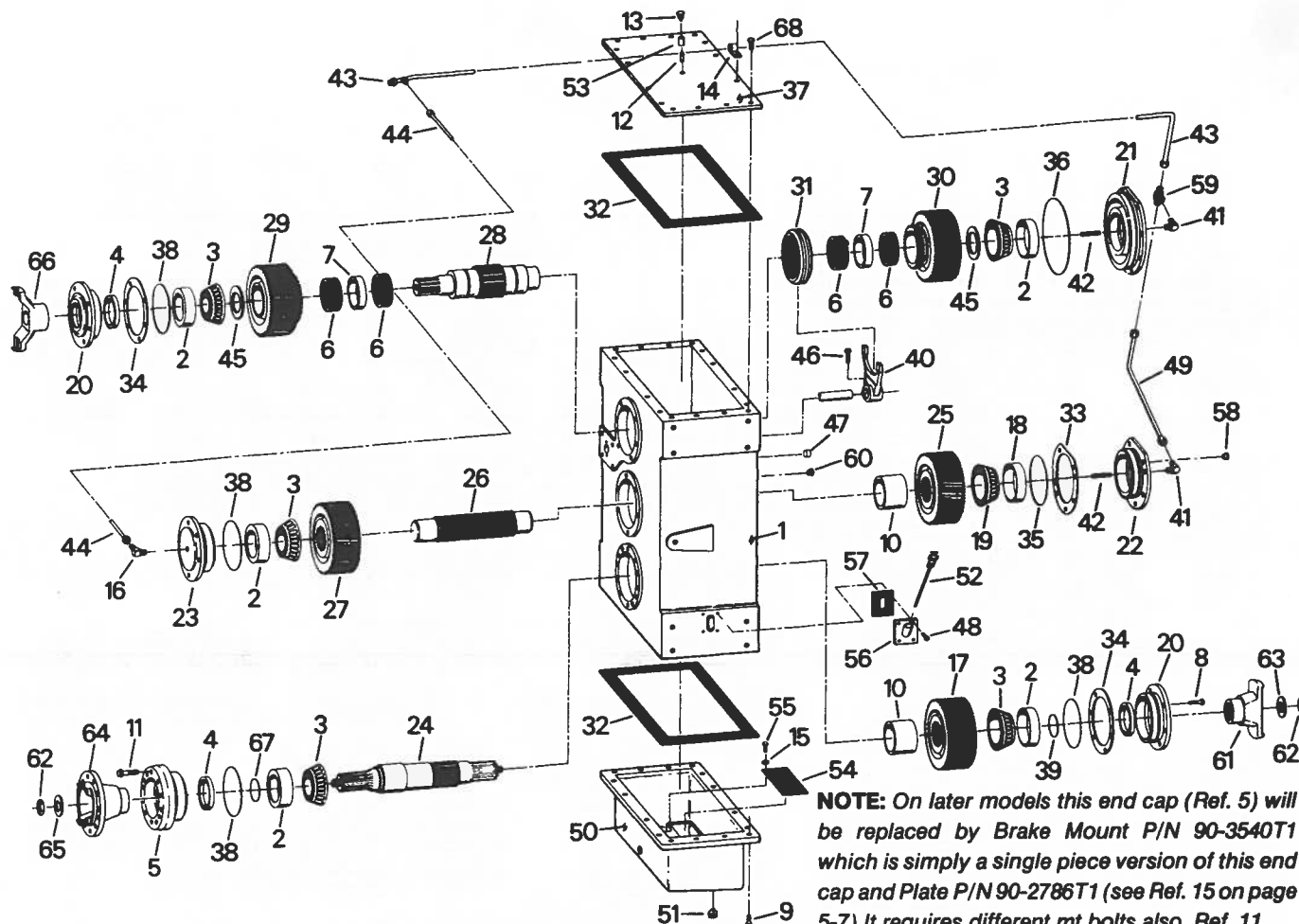


NOTE: Kits to convert single-speed transfer cases to two-speed transfer cases are P/N 35-1071 (ST320 only) and 35-1070 (other models).

Two Speed Transfer Case

Swinging Style BSN 2000

Ref.	Part No.	Description	Qty.	Ref.	Part No.	Description	Qty.
35	19-477	Capscrew, 1/2 NF x 2	1	49	01-3588	Cone	4
36	31-090	Plug, Expansion	1	50	01-3600	Top Link (all except w/903 Cummins)	1
37	01-2290	Washer	2		01-3598	Top Link (w/903)	
38	01-2546	Nipple, Pipe*	1	51	01-3599	Lower Link (except w/903)	1
39	01-8650	Tube Assy*	1		01-3597	Lower Link (w/903)	
	01-2545	Tube Assy**	1	52	19-222	Lock Nut	2
40	31-1255	Caplug*	1	53	01-3828	Tailpiece	1
41	31-1355	Tee*	1	54	19-061	Capscrew, 5/8 NC x 2-1/2	2
	01-1865	Connector**	1	55	19-085	Lock Nut, 3/4 NC	2
42	19-5352	Capscrew, 1 NC x 4-1/2	2	56	19-767	Capscrew, 3/4 NC x 2-3/4	1
43	01-3586	Bushing	4	57	19-063	Capscrew, 3/4 NC x 2-1/2	1
44	01-3583	Uniball	2	58	52-024	Link, Trans. Case Steer	1
45	01-3584	Ring, Snap	2	59	01-8651	Tube Assy*	1
46	19-714	Washer, 1-1/16	1	60	19-463	Washer, 1/2"	4
47	19-859	Lock Nut, 1 UNC	2				
48	31-037	Plug, Pipe	1				

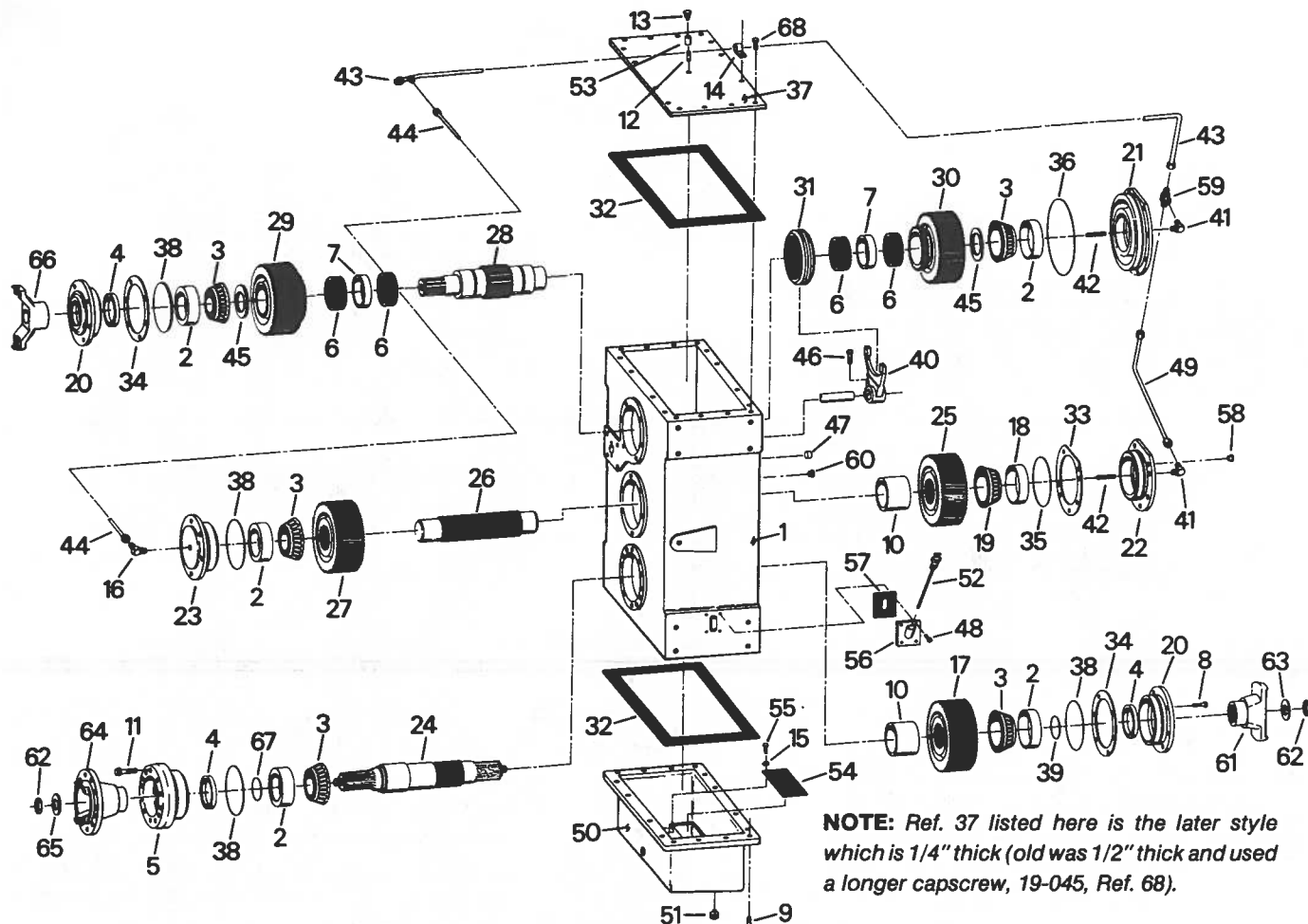


Transfer Case Assembly

Stationary Style (ASN 2000)

Ref.	Part No.	Description	Qty.
1-69	90-2775T94	Transfer Case Assy (90-2775T93 - Code C) (also incl Refs. 1-22, 25 & 32 on preceding page)	1
1	90-4321T1	Transfer Case Housing	1
2	01-2255	Bearing Cup	5
3	01-2256	Bearing Cone	5
4	14-153	Seal	3
5	90-3488T1	End Cap (C) (shown above)	1
	90-3540T1	Brake Mount (C) (see Note)	1
6	01-2273	Needle Bearing	4
7	01-2274	Bearing Spacer	2
8	19-044	Capscrew	37
9	19-045	Capscrew (used with Sump P/N 01-3656)	14
	19-043	Capscrew (used with Sump P/N 90-3967T1)	
10	01-2285	Gear Spacer	2
11	19-6006	Flanged Capscrew (used with End Cap P/N 90-3488T1)	12
	9430876	Capscrew (used with Brake Mount P/N 90-3540T1)	

Ref.	Part No.	Description	Qty.
12	31-635	Pipe Nipple	1
13	31-303	Breather	1
14	32-310	Clamp	1
15	19-107	Washer (not used with Sump P/N 90-3967T1)	4
16	31-599	Elbow	1
17	01-2268	Gear	1
18	01-3364	Bearing Cup	1
19	01-3365	Bearing Cone	1
20	01-2262	End Cap	2
21	01-2264	End Cap	1
22	01-9070	End Cap	1
23	90-1841T1	End Cap	1
24	90-1865T1	Output Shaft	1
25	01-2291	Gear	1
26	90-1817T1	Middle Shaft	1
27	01-2282	Gear	1
28	01-2307	Input Shaft	1
29	01-2316	Gear	1
30	01-2310	Gear	1
31	01-2258	Clutch	1
32	01-3355	Gasket (qty 2 on early models)	1

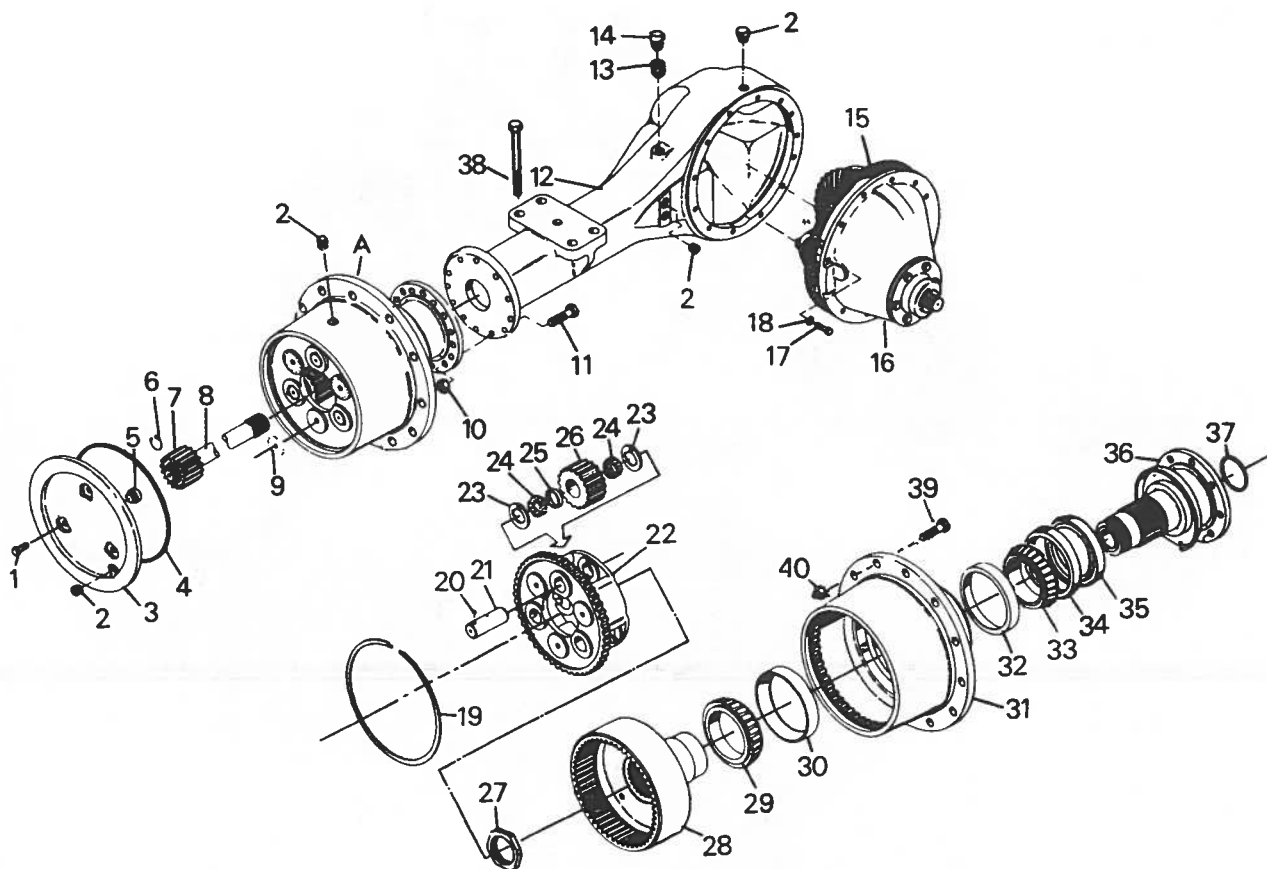


Transfer Case Assembly

Stationary Style (ASN 2000)

Ref.	Part No.	Description	Qty.
33	01-3358T1	Shim (.005)	1
	01-3359T1	Shim (.007)	1
	01-3360T1	Shim (.020)	1
34	01-2296	Shim (.005)	2
	01-2297	Shim (.007)	2
	01-2298	Shim (.020)	2
35	01-3363	O-Ring	1
36	01-2270	O-Ring	1
37	90-4152T1	Top Plate	1
38	01-2271	O-Ring	4
39	01-2269	O-Ring	1
40	01-2550	Shifter Fork	1
41	31-474	Elbow	2
42	01-2546	Pipe Nipple	2
43	01-6271	Tube	1
44	90-2665T1	Tube	1
45	01-2290	Washer	2
46	19-477	Capscrew	1
47	31-090	Expansion Plug	1
48	19-017	Capscrew	4
49	01-8616	Tube	1
50	01-3656	Oil Sump (B) (shown above)	1
	90-3967T1	Oil Sump (B) (Service)	

Ref.	Part No.	Description	Qty.
51	31-1054	Magnetic Plug	1
52	01-3683	Dipstick	1
53	144069	Coupling	1
54	01-3777	Screen (not used with Sump P/N 90-3967T1)	1
55	19-5394	Capscrew (not used with Sump P/N 90-3967T1)	4
56	01-3799	Fill Tube	1
57	01-3810	Gasket	1
58	31-1255	Caplug	8
59	31-492	Tee	1
60	31-336	Plug (8) (early models only)	1
61	01-2209	Yoke	1
62	14-059	Nut	2
63	19-163	Washer	1
64	90-1816T1	Brake Yoke	1
65	19-5796	Washer	1
66	01-6992	Yoke	1
67	90-1869T1	O-Ring	1
68	19-043	Capscrew	14
69	01-1055	RTV Sealant (not shown)	AR



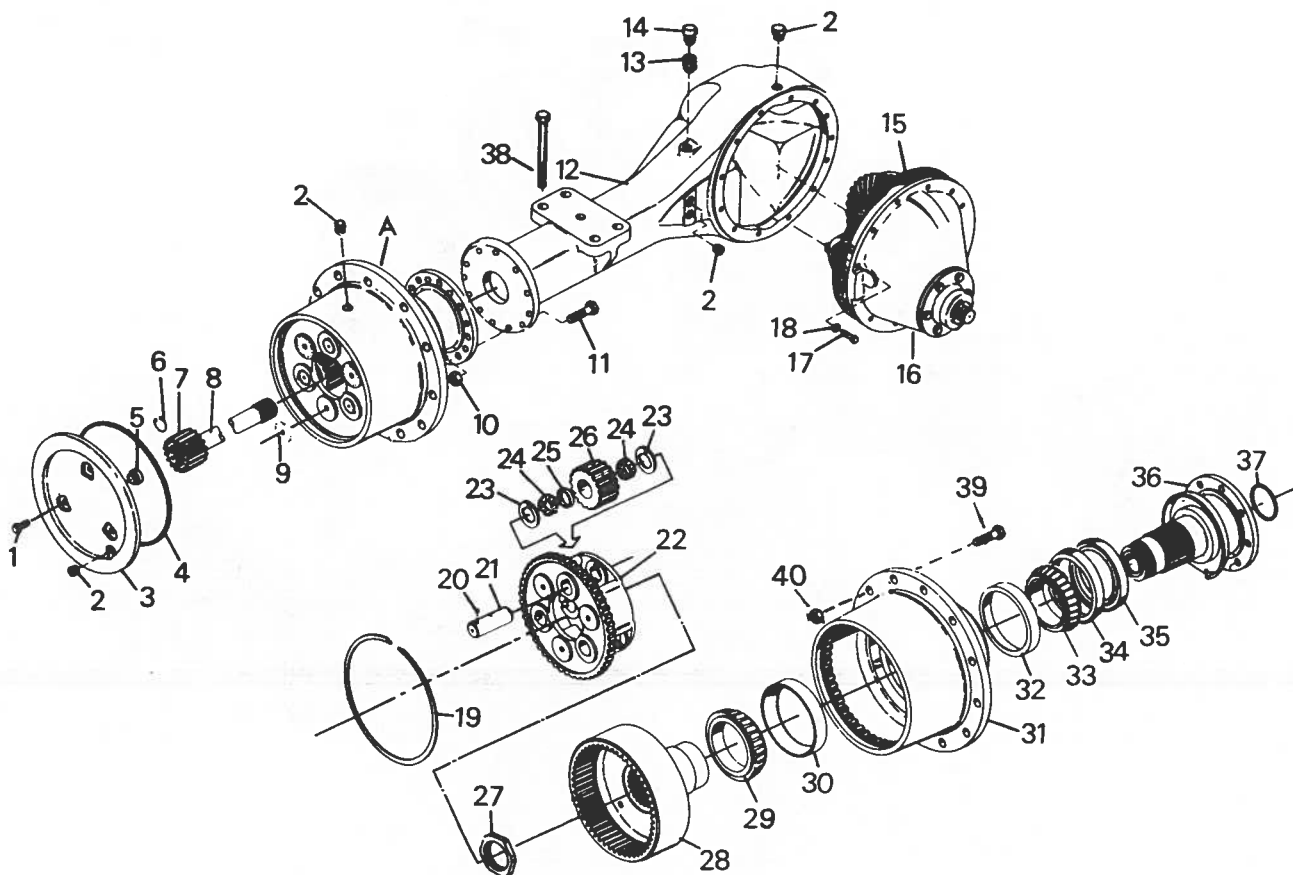
NOTE: The 6.17 Ratio Axle was only used on ST 220 with SN 103-00118 and below, 5.43 ratio was used thereafter.

NOTE: The A305 axle used only the early 19120 Series Diff Assy w/either 5.43 or 6.17 Ratio.

A305 Axle Assembly (ST 220 Only)

Ref.	Part No.	Description	Qty.
	16-1385	Axle Assy, Front, 6.17 Diff Ratio	1
	16-1386	Axle Assy, Rear, 6.17 Diff Ratio	1
	16-1387	Axle Assy, Front, 5.43 Diff Ratio	1
	16-1388	Axle Assy, Rear, 5.43 Diff Ratio	1
A	16-1666	Wheel End Assy. (includes Ref. 1-7, 9 & 19-37)	1
1	19-045	Capscrew, 1/2 NC x 1-1/4	6
2	16-383	Plug, Magnetic	9
3	16-842	Cover, Wheel End	2
4	16-069	O-Ring, Wheel End Cover	2
5	16-360	Button, Thrust	2
6	16-071	Snap Ring, Sun Gear	2
7	16-601	Gear, Sun	2
8	16-073	Shaft, Axle	2
9	16-357	Gasket, Wheel End	6
10	19-496	Lock Nut, 3/4 NF	24
11	19-838	Capscrew, 3/4 x 2-3/4 NF	24
12	16-843	Housing, Axle	1
13	31-510	Bushing, Reducer	1
14	16-022	Breather	1
15	16-046	Gasket, Diff	1

Ref.	Part No.	Description	Qty.
16	16-848	Diff Assy, Rear 6.17 Ratio	1
	16-849	Diff Assy, Front 6.17 Ratio	1
	16-846	Diff Assy, Rear 5.43 Ratio	1
	16-847	Diff Assy, Front 5.43 Ratio	1
17	19-839	Capscrew, 5/8 NC x 2	8
	19-840	Capscrew, 5/8 NC x 2-14	4
18	19-120	Lock Washer, 5/8	12
19	16-070	Snap Ring, Planetary Gear Carrier	2
20-26	16-1800	Planetary Assy	1
20	16-074	Ball, Steel	6
21	16-075	Shaft, Planetary Gear	6
22	16-602	Carrier, Planetary Gear	2
23	16-076	Washer, Thrust	12
24	16-077	Bearing, Needle	312
25	16-079	Spacer, Needle Bearing	6
26	16-600	Gear, Planetary	6
27	16-502	Stake Nut	2
28	16-851	Ring Gear & Carrier Assy	2
29	16-085	Cone, Bearing	2
30	16-086	Cup, Bearing	2



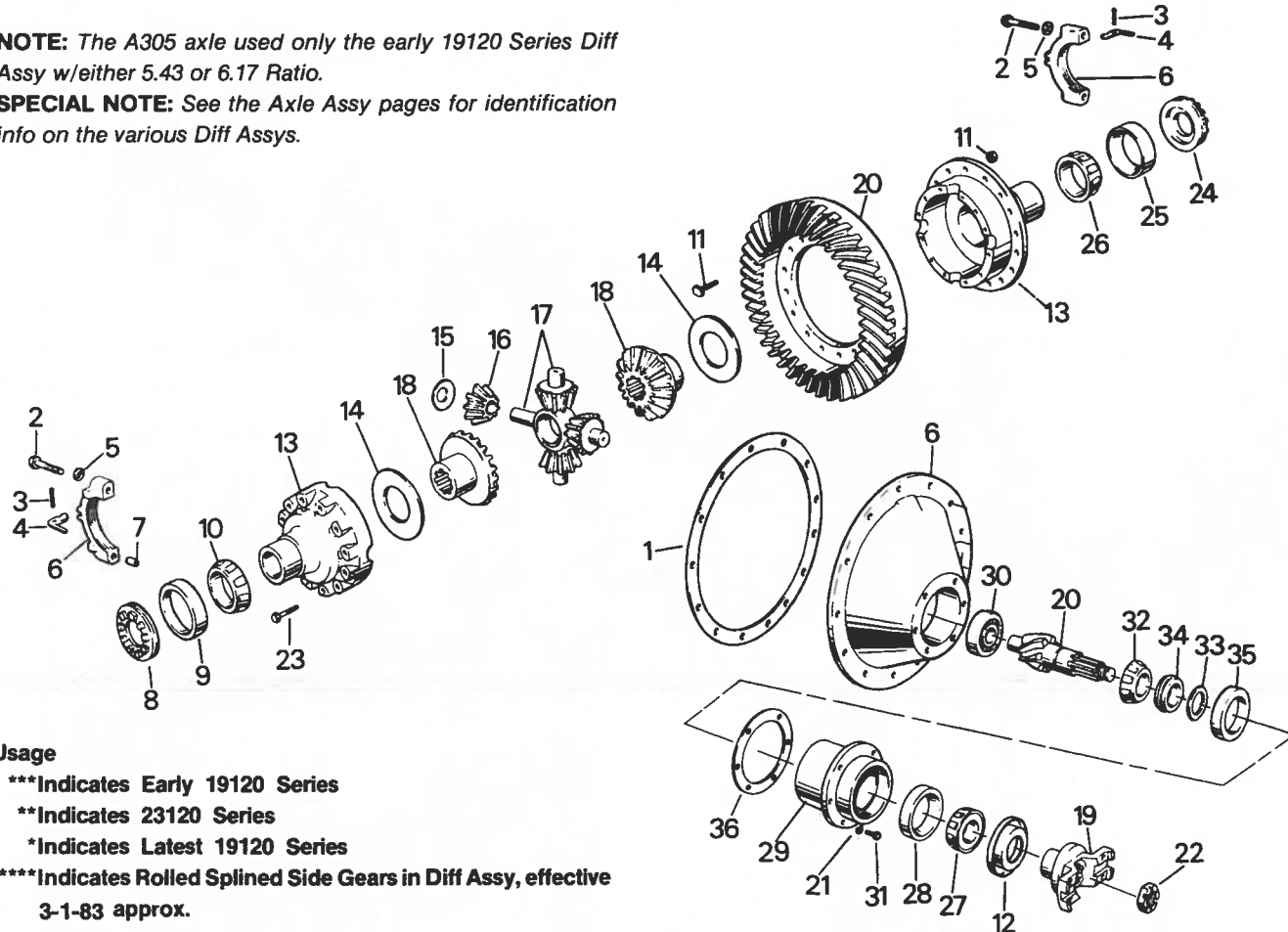
A305 Axle Assembly (ST 220 Only)

Ref.	Part No.	Description	Qty.
31	16-852	Housing, Wheel Hub	2
32	16-016	Cup, Bearing	2
33	16-853	Cone, Bearing	2
34	16-599	Oil Seal	2
35	16-854	Spacer	2
36	16-855	Spindle & Slinger Assy	2

Ref.	Part No.	Description	Qty.
37	16-020	O-Ring, Spindle	2
38	19-815	Axle Bolt	8
	19-859	Nut, Axle Bolt	8
39	19-260	Lug bolt, 7/8 NF x 3	20
40	19-271	Lug Nut, 7/8 NF	20

NOTE: The A305 axle used only the early 19120 Series Diff Assy w/either 5.43 or 6.17 Ratio.

SPECIAL NOTE: See the Axle Assy pages for identification info on the various Diff Assys.



Usage

***Indicates Early 19120 Series

**Indicates 23120 Series

*Indicates Latest 19120 Series

****Indicates Rolled Splined Side Gears in Diff Assy, effective 3-1-83 approx.

Differential & Carrier Assembly

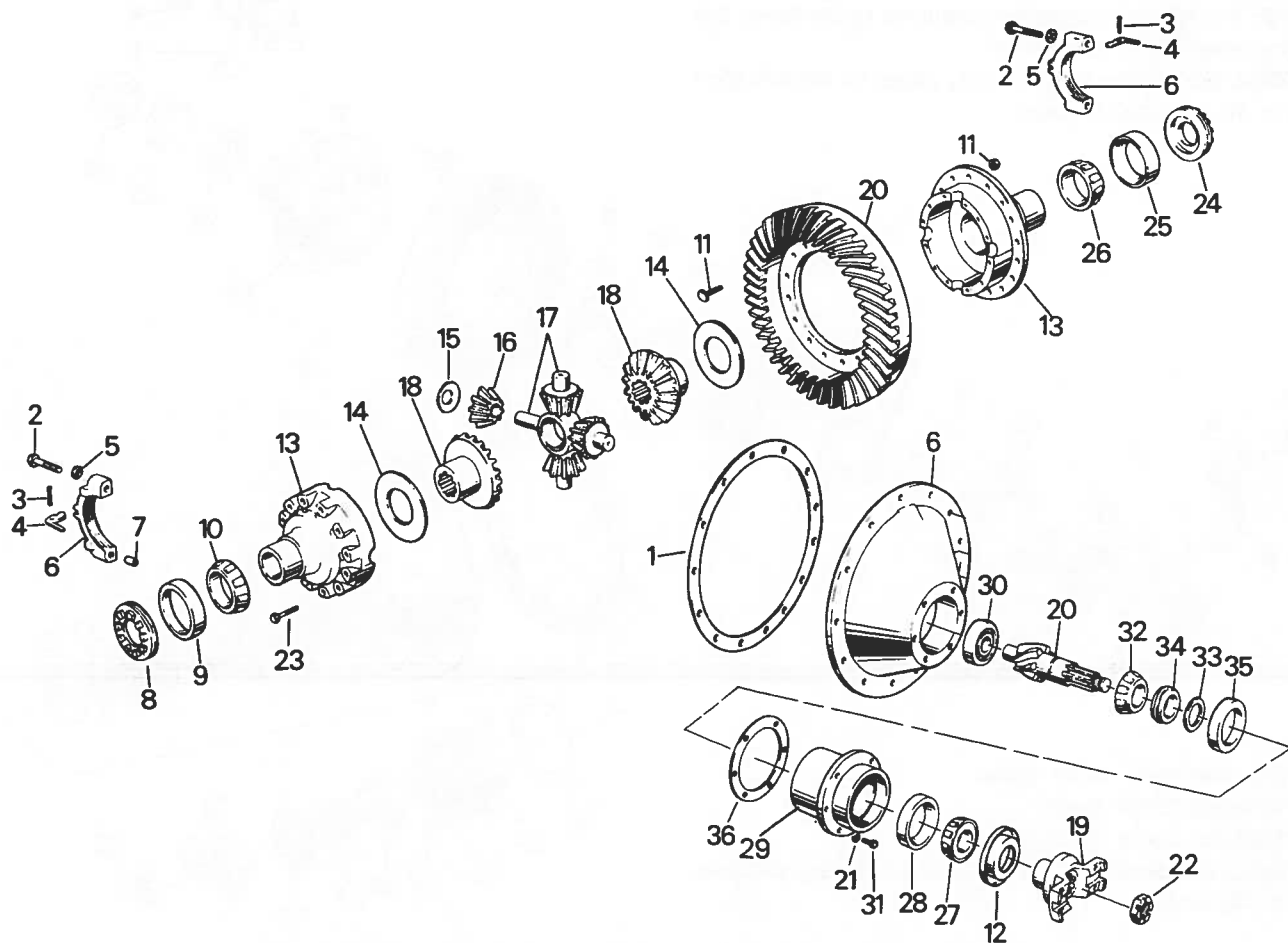
A305 & S-34 Axles

Ref.	Part No.	Description	Qty.
1	16-046	Gasket (use RTV Sealant)	1
2	16-024	Capscrew	4
3	16-025	Cotter	2
4	16-026	Lock Adjuster	2
5	16-064	Washer	4
6	16-027	Carrier w/caps (incl 2, 5 & 7)***	1
	01-2019	Carrier w/caps (incl 2, 5 & 7)*-**	
7	16-065	Bushing	4
8	16-028	Adjuster, Bearing, RH	1
9	16-029	Cup, Bearing	1
10	16-030	Cone	1
11	16-040	Bolt & Nut Kit	1
12	16-060T1	Seal & Retainer Assy (16-060) (B)	1
13	90-2431T1	Case Kit*--***	1
		(Repl 16-032 & 16-038) (B)	
	90-2429T1	Case Kit**	1
		(Repl 01-2026 & 01-2027) (B)	
14-18	35-1214	Diff Kit***-*	1
	35-1213	Diff Kit**	1
	35-1375T91	Diff Kit****	1
14	16-033	Thrust Washer***-*	2
	01-2020	Thrust Washer**	2
15	16-035	Thrust Washer***-*	4
	01-2024	Thrust Washer**	4

Ref.	Part No.	Description	Qty.
16-18		Available in Kit only.	
19	01-5513	Yoke (Repl 17-210) (B)	1
20	16-857	Gear Set, Front, 5.43 (305)	1
	16-858	Gear Set, Rear, 5.43 (305)	1
	16-860	Gear Set, Front 6.17 (305)	1
	16-859	Gear Set, Rear 6.17 (305)	1
	16-861	Gear Set, Front 4.88 (S-34)***	1
	16-1175	Gear Set, Rear 4.88 (S-34)***	1
	01-2028	Gear Set, Front 4.88 (S-34)*--**	1
	01-2029	Gear Set, Rear 4.88 (S-34)*--**	1
21	19-120	Lock Washer, 5/8	6
22	01-1967	Nut (Repl 16-063) (E)	1
23	16-042	Capscrew***-*	12
	01-2022	Capscrew**	12
24	16-045	Adjuster, Bearing, LH	1
25	16-044	Cup, Bearing	1
26	16-043	Cone, Bearing	1
27	16-057	Cone, Bearing	1
28	16-056	Cup, Bearing	1
29	16-053	Cage (w/25 & 28)***	1
	01-1967	Cage (w/25 & 28)*--*	1
30	16-047	Bearing***	1
	01-2018	Bearing***-	1

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Differential & Carrier Assembly

A305 & S-34 Axles

Ref.	Part No.	Description	Qty.
31	19-057	Capscrew	6
32	16-048	Cone, Bearing	1
33	16-218	Spacer (.176)	1
	16-219	Spacer (.177)	
	16-220	Spacer (.178)	
	16-221	Spacer (.179)	
	16-222	Spacer (.180)	
	16-223	Spacer (.181)	
	16-224	Spacer (.182)	
	16-225	Spacer (.183)	
	16-226	Spacer (.184)	
	16-227	Spacer (.185)	
	16-228	Spacer (.186)	
	16-229	Spacer (.187)	
	16-230	Spacer (.188)	
	16-231	Spacer (.189)	
	16-232	Spacer (.190)	
	16-233	Spacer (.191)	
	16-234	Spacer (.192)	
	16-235	Spacer (.193)	
	16-236	Spacer (.194)	
	16-237	Spacer (.195)	

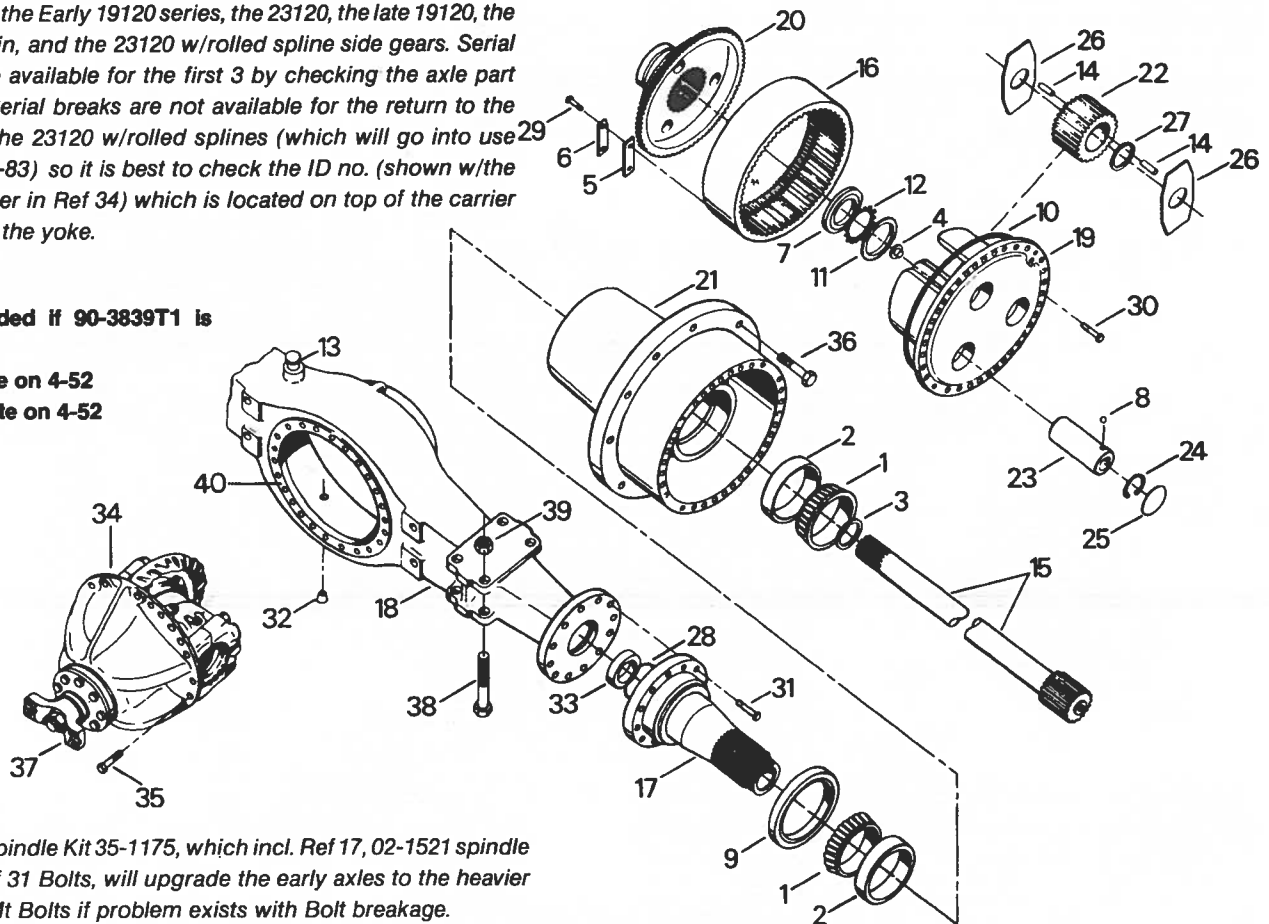
Ref.	Part No.	Description	Qty.
34	16-050	Spacer	1
35	16-051	Cup, Bearing	1
36	16-052	Shim (.003)	AR
	16-245	Shim (.005)	AR
	16-246	Shim (.010)	AR
	16-247	Shim (.020)	AR
	16-248	Shim (.030)	AR

NOTE: This axle has used 4 different versions of the same Diff & Carrier Assy, Ref 34. They are as follows and in their usage sequence: the Early 19120 series, the 23120, the late 19120, the 23120 again, and the 23120 w/rolled spline side gears. Serial breaks are available for the first 3 by checking the axle part number. Serial breaks are not available for the return to the 23120 or the 23120 w/rolled splines (which will go into use about 3-1-83) so it is best to check the ID no. (shown w/the part number in Ref 34) which is located on top of the carrier just above the yoke.

*Not needed if 90-3839T1 is used

**See note on 4-52

***See note on 4-52



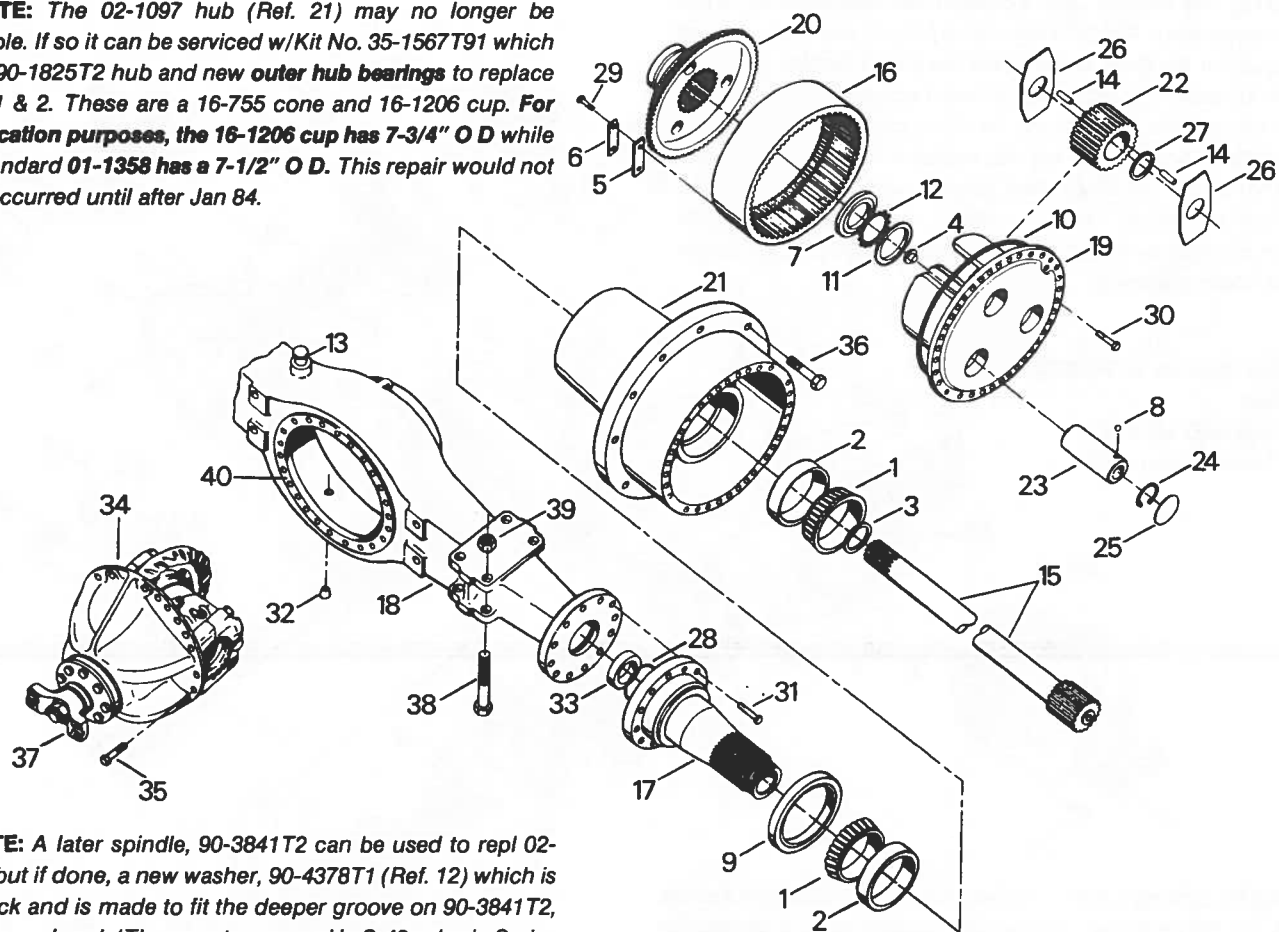
NOTE: Spindle Kit 35-1175, which incl. Ref 17, 02-1521 spindle & 12- Ref 31 Bolts, will upgrade the early axles to the heavier spindle Mt Bolts if problem exists with Bolt breakage.

Axle Assembly

S-34

Ref.	Part No.	Description	Qty.	Ref.	Part No.	Description	Qty.
1-40	16-1330	Axle, Front (Early 19120) (B)	1	9	90-3839T1	Seal (01-1351) (B)	2
	01-1420	Axle, Front (23120) (B)			35-1346T91	Wear Sleeve Kit* (Repair grooved spindle)	2
	01-5499	Axle, Front (Late 19120) (B)		10	01-1397	O-Ring	2
	90-4010T91	Axle, Front (23120 w/Rolled Splines)		11	01-1349	Nut	2
	16-1331	Axle, Rear (Early 19120) (B)		12	01-1363	Washer** (.075 thick)	2
	01-1421	Axle, Rear (23120) (B)		13	01-1359	Vent	1
	01-5502	Axle, Rear (Late 19120) (B)		14	01-1354	Bearing, Roller	288
	90-4011T91	Axle, Rear (23120 w/Rolled Splines)		15	01-1403	Shaft, Axle (22 Cut Splines)	2
1-33	01-1413	Axle Assy w/o Diff Assy (Cut Splines)	2		90-1820T1	Shaft, Axle (36 Rolled Splines)	
	90-1821T91	Axle Assy w/o Diff Assy (Rolled Splines)		16	01-1400	Gear, Ring	2
1	01-1357	Cone, Bearing***	4	17	01-1404	Spindle (Early) (5/8" Mt Holes) (D)	2
2	01-1358	Cup, Bearing***	4		02-1521	Spindle (2nd Style) (3/4" Countersunk Mt Holes) (D)	
3	01-1394	Washer, Thrust	2		02-1096	Spindle (Latest)** (3/4" Mt Holes) (D)	
4	01-1355	Button, Thrust	2	18	01-1405	Housing (Early) (5/8" Spindle Mt Holes) (D)	1
5	01-1356	Tab, Locking	6		02-1098	Housing (Later) (3/4" Spindle Mt Holes) (D)	
6	01-1360	Clip, Retaining	6	19	01-1406	Carrier, Planet	2
7	01-1361	Washer	2	20	01-1402	Hub, Ring Gear	2
8	01-1393	Ball	6				

*****NOTE:** The 02-1097 hub (Ref. 21) may no longer be available. If so it can be serviced w/Kit No. 35-1567T91 which incl a 90-1825T2 hub and new **outer hub bearings** to replace Refs. 1 & 2. These are a 16-755 cone and 16-1206 cup. For **identification purposes**, the 16-1206 cup has 7-3/4" O D while the standard 01-1358 has a 7-1/2" O D. This repair would not have occurred until after Jan 84.



****NOTE:** A later spindle, 90-3841T2 can be used to repl 02-1096, but if done, a new washer, 90-4378T1 (Ref. 12) which is .10 thick and is made to fit the deeper groove on 90-3841T2, must be ordered. (These parts are used in S-40 axles in Series IV.

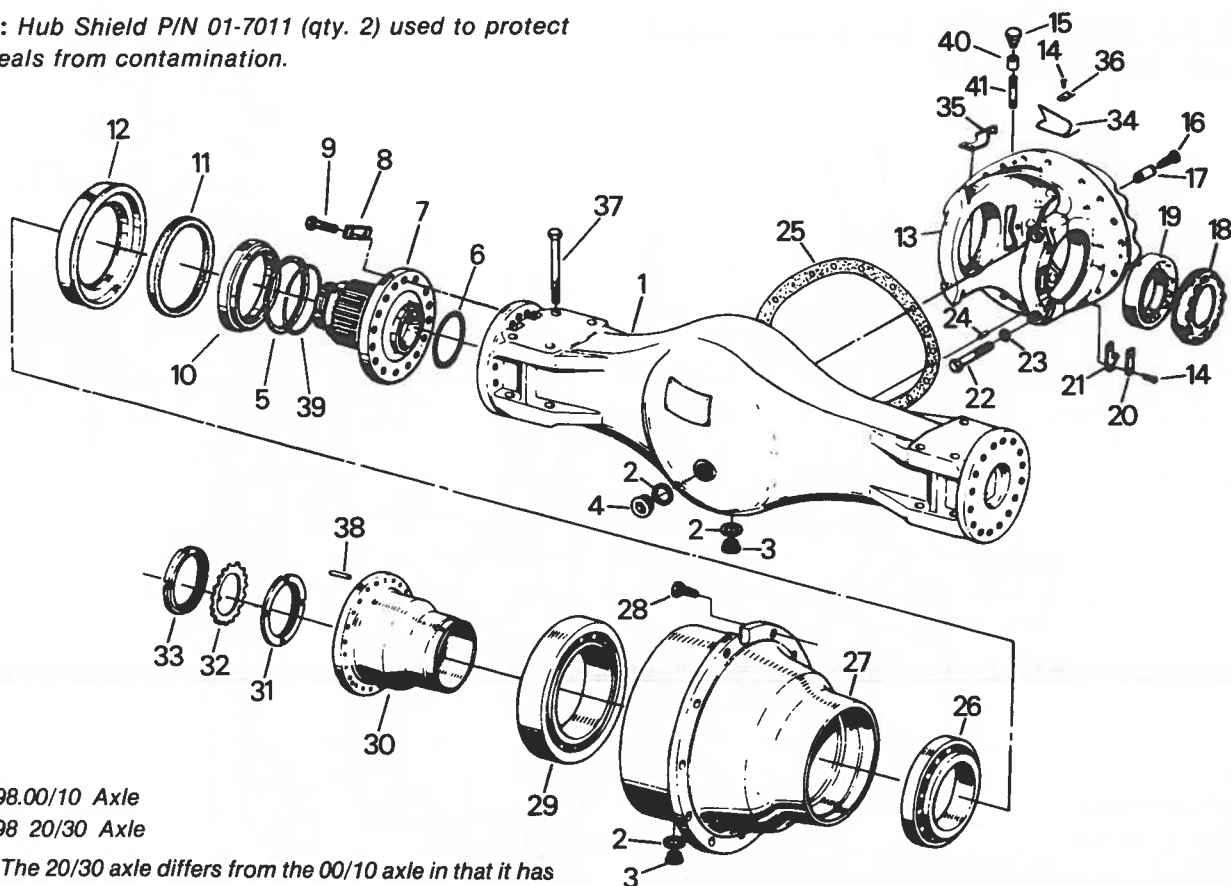
Axle Assembly

S-34

Ref.	Part No.	Description	Qty.
21	01-1401	Hub, Wheel (Early) (C)	2
	02-1097	Hub, Wheel (Late) (C)***	
22	01-1399	Gear, Planet	6
23	01-1353	Pin, Planet	6
24	01-1398	Snap Ring	6
25	01-1350	Plug, Expansion	6
26	01-3093	Plate, Thrust	12
27	01-1396	Spacer	6
28	01-1395	O-Ring	4
29	454862	Capscrew	12
30	271562	Capscrew	64
31	19-840	Capscrew	24
		(use w/01-1405 Housing)	
	19-1920	Capscrew	
		Socket Hd (use w/02-1098 Housing)	
32	31-531	Plug	4
33	01-1352	Ring, Pilot	2
34	16-1324	Diff Assy, Front	1
		(Early 19120, ID #94582)	
	90-1844T91	Diff Assy, Front	1
		(23120, ID #99999)	
	01-5497	Diff Assy, Front	1
		(Late 19120, ID #106455)	

Ref.	Part No.	Description	Qty.
	90-1877T91	Diff Assy, Front (23120, ID #115049) (w/Rolled Spline Side Gears)	
	01-1325	Diff Assy, Rear	1
		(Early 19120, ID #85857)	
	90-1843T91	Diff Assy, Rear	1
		(23120, ID #98545)	
	01-5495	Diff Assy, Rear	1
		(Late 19120, ID #106453)	
	90-1878T91	Diff Assy, Rear (23120, ID #107942) (w/Rolled Spline Side Gears)	
35	19-817	Capscrew	8
	19-840	Capscrew	4
36	19-2974	Lug Bolt	20
	223470	Lug Bolt	
		(use when wheel has 3/4" thick disc)	
	19-2975	Washer (used w/Lug Bolt)	20
37	01-5513	Yoke	1
38	19-815	Axle Mt Bolt	8
39	19-859	Nut, Axle mt	8
40	16-046	Gasket, Carrier (or can use gasket sealant)	1

NOTE: Hub Shield P/N 01-7011 (qty. 2) used to protect hub seals from contamination.



Usage

*K-598.00/10 Axle

**K-598 20/30 Axle

NOTE: The 20/30 axle differs from the 00/10 axle in that it has items 5 & 39 which the 00/10 used in only the very latest, and it has the five gear inner planetary where the other has 3 gears.

NOTE: Some early 00/10 axles may have had a Baffle Plate in the ends of the axle next to item 6, these are not necessary to replace.

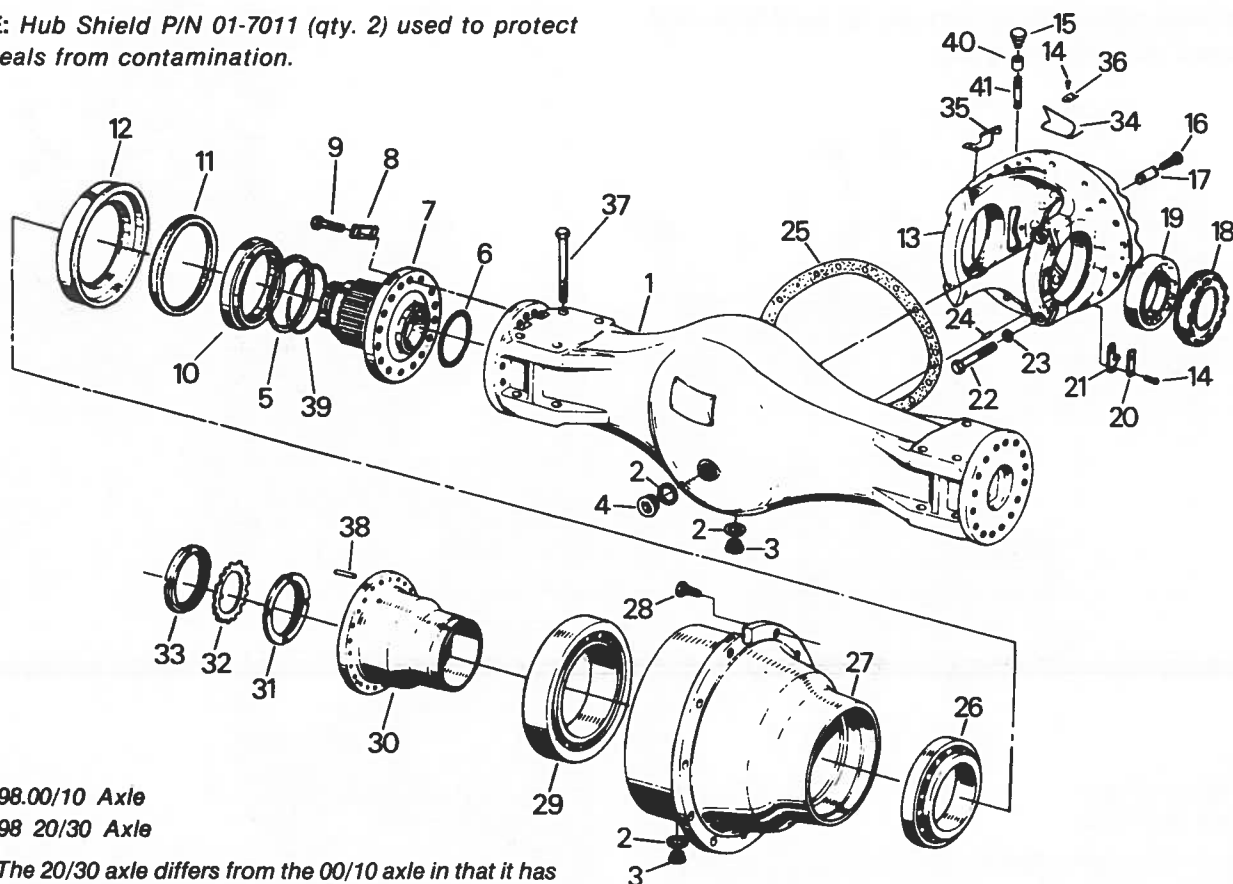
Axle Assembly

K-598 00/10 & 20/30

Ref.	Part No.	Description	Qty.
	16-797	Axle Assy, Front* (C)	1
	01-6168	Axle Assy, Front** (C)	1
	16-798	Axle Assy, Rear* (C)	1
	01-6167	Axle Assy, Rear** (C)	1
	01-8315	Sub Assy, Axle (incl 1-4, 6-9 & 31-33)	1
1	16-1500	Axle Housing	1
2	16-1501	Washer	4
3	16-1502	Magnetic Plug	3
4	16-1503	Plug	1
5	01-8670	Sealing Ring (on late 00/10 & all 20/30 axle)	2
6	16-1505	O-Ring	2
7	16-1506	Axle Stub	2
8	16-1507	Lock Washer	16
9	16-1508	Capscrew	32
10	16-1509	Shouldering Ring* (Service w/01-8316 plus Refs 5 & 39)	2
	01-8316	Shouldering Ring** (Late 00/10 axles also)	2
11	16-1510	Seal, Oil	2
12	16-1511	Sealing Case	2

Ref.	Part No.	Description	Qty.
13	16-1512	Diff Housing Assy, (incl 22 & 23)	1
	16-1513	Dowel (not shown) (incl w/13)	2
14	16-1186	Capscrew	6
15	01-1359	Vent (when used w/40 & 41, will Repl 16-1518) (E)	1
16	16-1519	Capscrew	18
17	16-1520	Lock Washer	12
	16-1521	Lock Washer	6
18	16-1522	Adjusting Ring	2
19	16-1523	Bearing, Tapered Roller	2
20	16-1524	Lock Washer	2
21	16-1525	Lock Washer, Nose Type	2
	16-1526	Lock Washer, Nose Type	2
	16-1527	Lock Washer, Nose Type	2
22	16-1528	Capscrew	2
23	16-1529	Spring Washer	2
24	16-1530	Dowel Pin	1
25	16-1531	Gasket, Diff Case	1
26	16-1532	Bearing, Tapered Roller	2
27	16-1533T91	Wheel Hub (incl 2 & 3)	2

NOTE: Hub Shield P/N 01-7011 (qty. 2) used to protect hub seals from contamination.



Usage

*K-598.00/10 Axle

**K-598 20/30 Axle

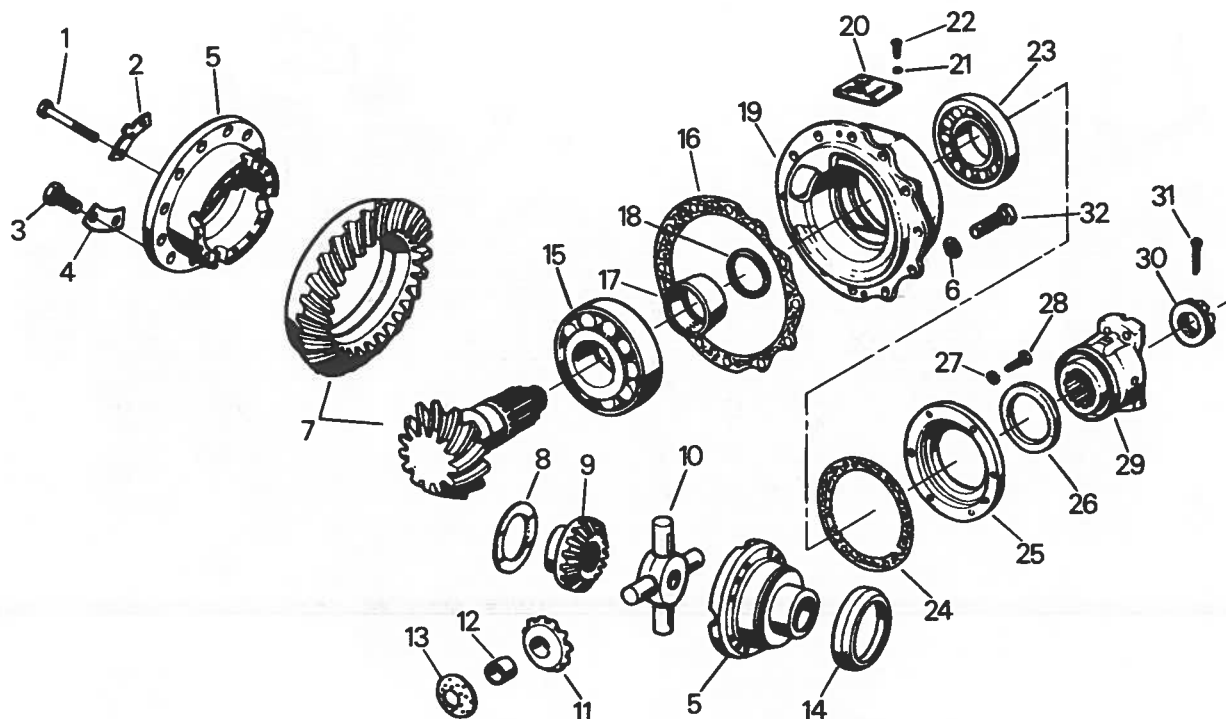
NOTE: The 20/30 axle differs from the 00/10 axle in that it has items 5 & 39 which the 00/10 used in only the very latest, and it has the five gear inner planetary where the other has 3 gears.

Axle Assembly

K-598 00/10 & 20/30

Ref.	Part No.	Description	Qty.
28	19-2974	Lug Bolt	20
	223470	Lug Bolt (use when wheels have 3/4" thick disc)	20
	19-2975	Washer, (not shown, use w/lug bolt)	20
29	16-1535	Bearing, Tapered Roller	2
30	16-1536	Ring Gear Support II*	2
	01-8318	Ring Gear Support II**	
31	16-1537	Nut, Shaft End II	2
32	16-1538	Lock Washer	2
33	16-1539	Shaft End Nut II	2

Ref.	Part No.	Description	Qty.
34	16-1515	Oil Baffling Plate, Front	1
	16-1540	Oil Baffling Plate, Rear	1
35	16-1184	Baffle Plate, Front	1
	16-1541	Baffle Plate, Rear	1
36	16-1542	Locking Washer	2
37	19-815	Axle Bolt	8
	19-859	Nut, Axle Bolt	8
38	16-1514	Dowel Pin	8
39	01-8317	Circlip (late 00/10 & all 20/30 axles)	2
40	31-605	Coupling	1
41	31-1841	Nipple	1

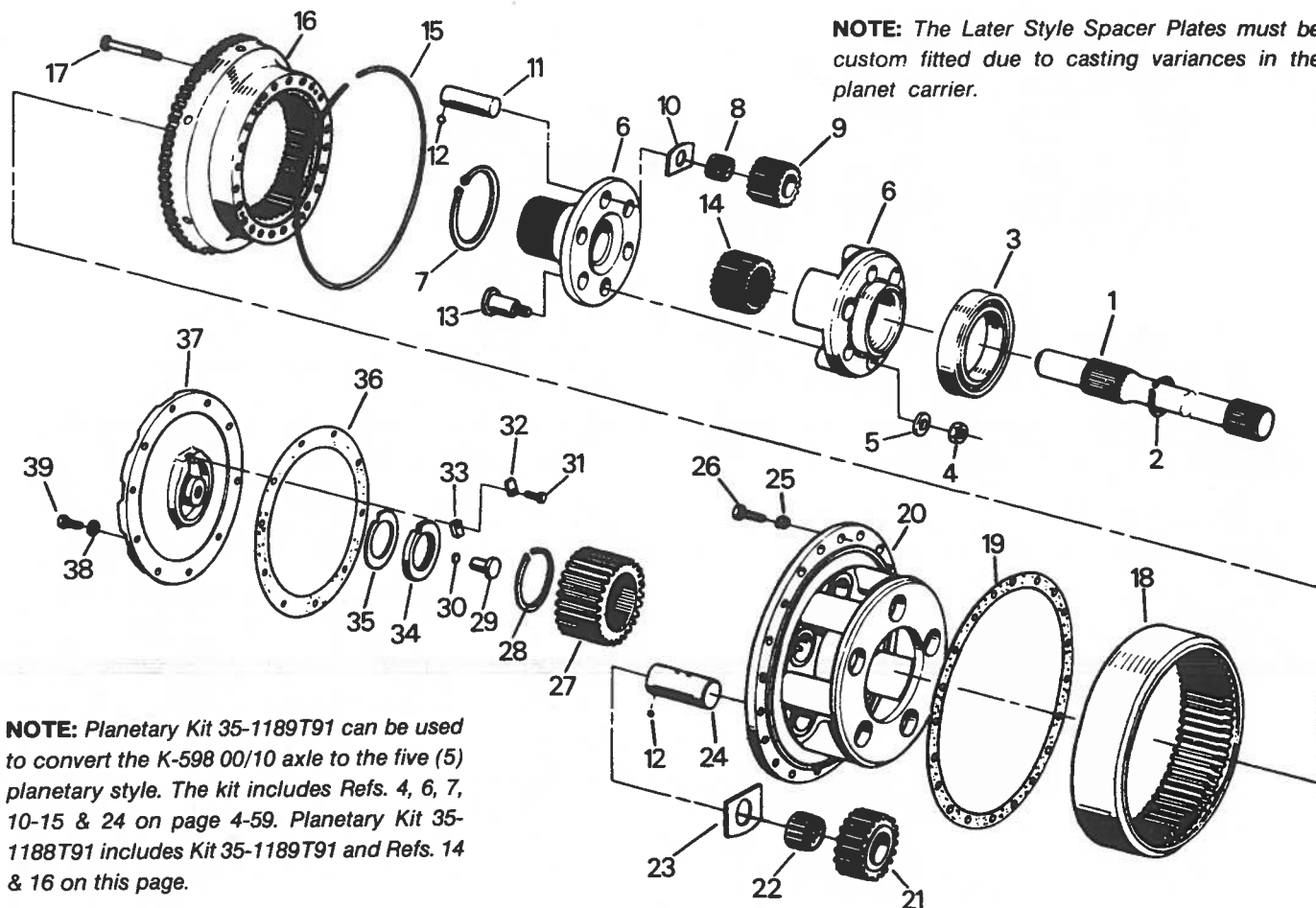


NOTE: Complete Front Differential Assembly is P/N 16-1804 and complete Rear Differential Assembly is P/N 16-1805. Differential Kit is P/N 35-1215 and includes Ref. 8, 9, 10, 11 & 13.

K-598 Differential Assembly

Ref.	Part No.	Description	Qty.
	16-1547	Differential Housing Assembly (includes Ref. 1, 2, 5 & 8-14)	1
1	16-1543	Hexagon Screw	12
2	16-1544	Locking Plate	4
3	16-1545	Hexagon Screw	12
4	16-1546	Locking Plate	6
5	16-1548	Differential Housing Halves (assembled with Ref. 1, 2 & 14)	1
6	16-1592	Spring Washer	12
7	16-1549	Ring Gear & Pinion, Rear Axle (assembled with Ref. 3, 4, 30 & 31)	1
	16-1550	Ring Gear & Pinion, Front Axle (assembled with Ref. 3, 4, 30 & 31)	

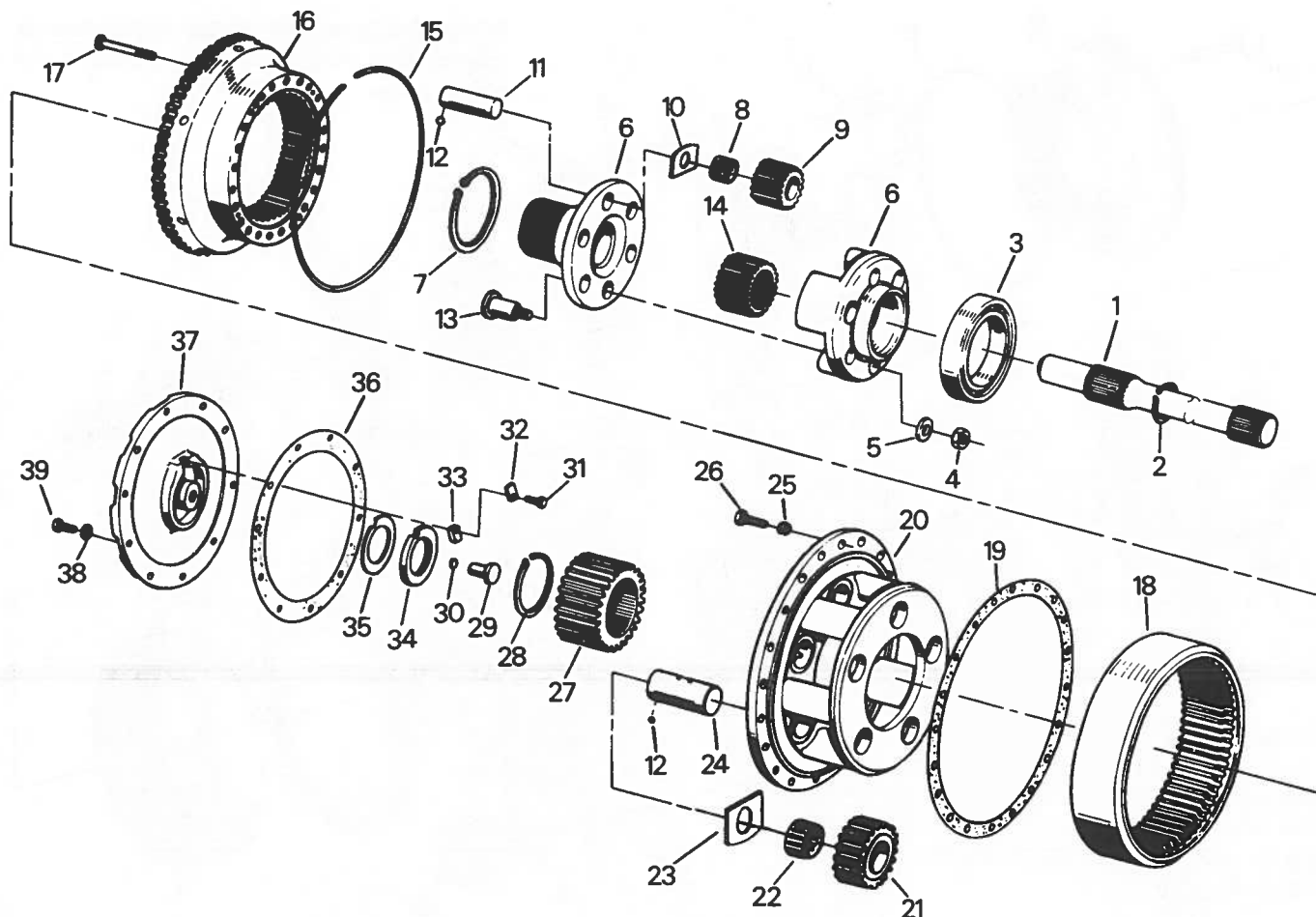
Ref.	Part No.	Description	Qty.
8	16-1551	Spacer Ring (4.6 MM)	AR
	16-1552	Spacer Ring (4.7 MM)	AR
	16-1553	Spacer Ring (4.8 MM)	AR
	16-1554	Spacer Ring (4.9 MM)	AR
	16-1555	Spacer Ring (5.0 MM)	AR
	16-1556	Spacer Ring (5.1 MM)	AR
	16-1557	Spacer Ring (5.2 MM)	AR
	16-1558	Spacer Ring (5.3 MM)	AR
9	16-1559	Big Differential Bevel Pinion	2
10	16-1560	Spider	1
11	16-1561	Small Differential Bevel Pinion (assembled with Ref. 12)	4
12	16-1562	Bushing	4
13	16-1563	Spacer Ring	4
14	16-1564	Oil Baffle Plate	1
15	16-1565	Tapered Roller Bearing	1



K-598.00/10 Planetary Assembly

Ref.	Part No.	Description	Qty.
	16-1593	Axle Shaft I Assembly (includes Ref. 2, 7 & 1 P/N 16-1594)	1
	16-1516	Axle Shaft II Assembly (includes Ref. 2, 7 & 1 P/N 16-1595)	
1	16-1594	Axle Shaft I (1078 MM)	1
	16-1595	Axle Shaft II (1208 MM)	1
2	16-1596	Snap Ring	4
3	16-1597	Ball Bearing	2
4-13	16-1600	Planetary Wheel Hub Assembly	2
4	16-1598	Hexagon Screw	6
5	16-1599	Washer	6
6	16-1601	Inner Planet Carrier (assembled with Ref. 4, 5 & 13)	2
7	16-1609	Snap Ring	2
8	16-1603	Needle Roller Bearing	12
9	16-1604	Planet Pinion	6
10	90-1009T1	Spacer Plate (replaces P/N 16-1605 - Code E) (see Note)	12

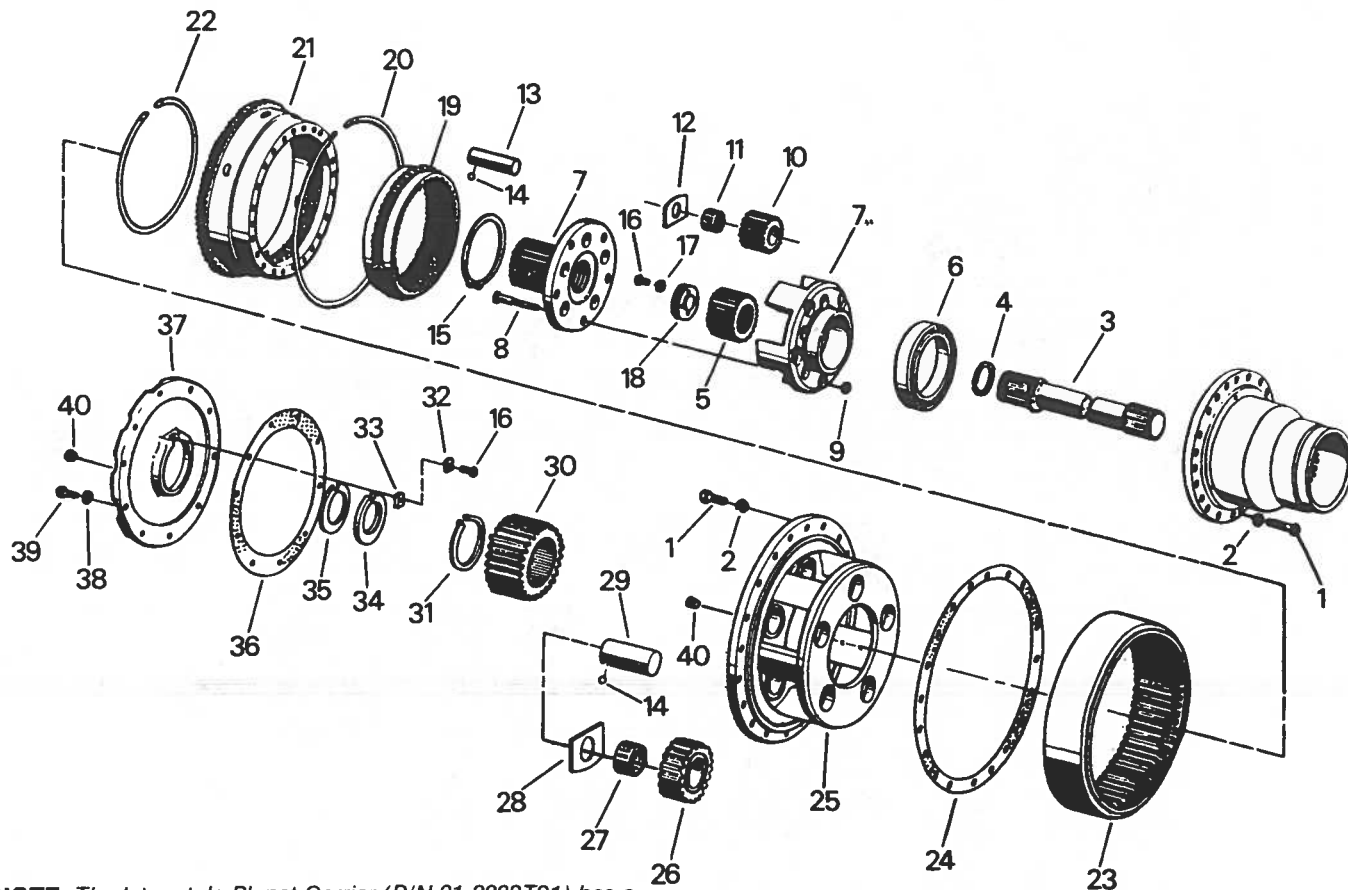
Ref.	Part No.	Description	Qty.
11	16-1606	Planet Pinion Shaft	6
12	16-1607	Steel Ball	16
13	16-1608	Clamping Screw	6
14	16-1602	Sun Pinion	2
15	16-1610	Clamping Ring	2
16	16-1611	Double Ring Gear	2
17	16-1612	Hexagon Screw	48
18	16-1613	Ring Gear	2
19	16-1614	Gasket	2
20-24	16-1517	Planetary Wheel Hub Assembly, Outer (also includes Ref. 12)	2
20	16-1615	Planet Carrier, Outer	2
21	16-1616	Planet Pinion, Outer	10
22	16-1617	Needle Roller Bearing	20
23	90-1008T1	Spacer Plate (replaces P/N 16-1618 - Code E)	20
24	16-1619	Planet Pinion Shaft, Outer	10
25	16-1592	Spring Washer	40
26	16-1621	Hexagon Screw	40
27	16-1622	Sun Pinion, Outer	2



K-598.00/10 Planetary Assembly

Ref.	Part No.	Description	Qty.
28	16-1623	Snap Ring	4
29	16-1624	Support Pin	2
30	16-1625	Shim	AR
31	16-1626	Hexagon Screw	2
32	16-1627	Locking Washer	2
33	16-1628	Clamping Plate	2

Ref.	Part No.	Description	Qty.
34	16-1629	Thrust Bearing	2
35	16-1630	Shim	AR
36	16-1631	Gasket	2
37	16-1632	Cover	2
38	16-1633	Spring Washer	20
39	16-1634	Hexagon Screw	20

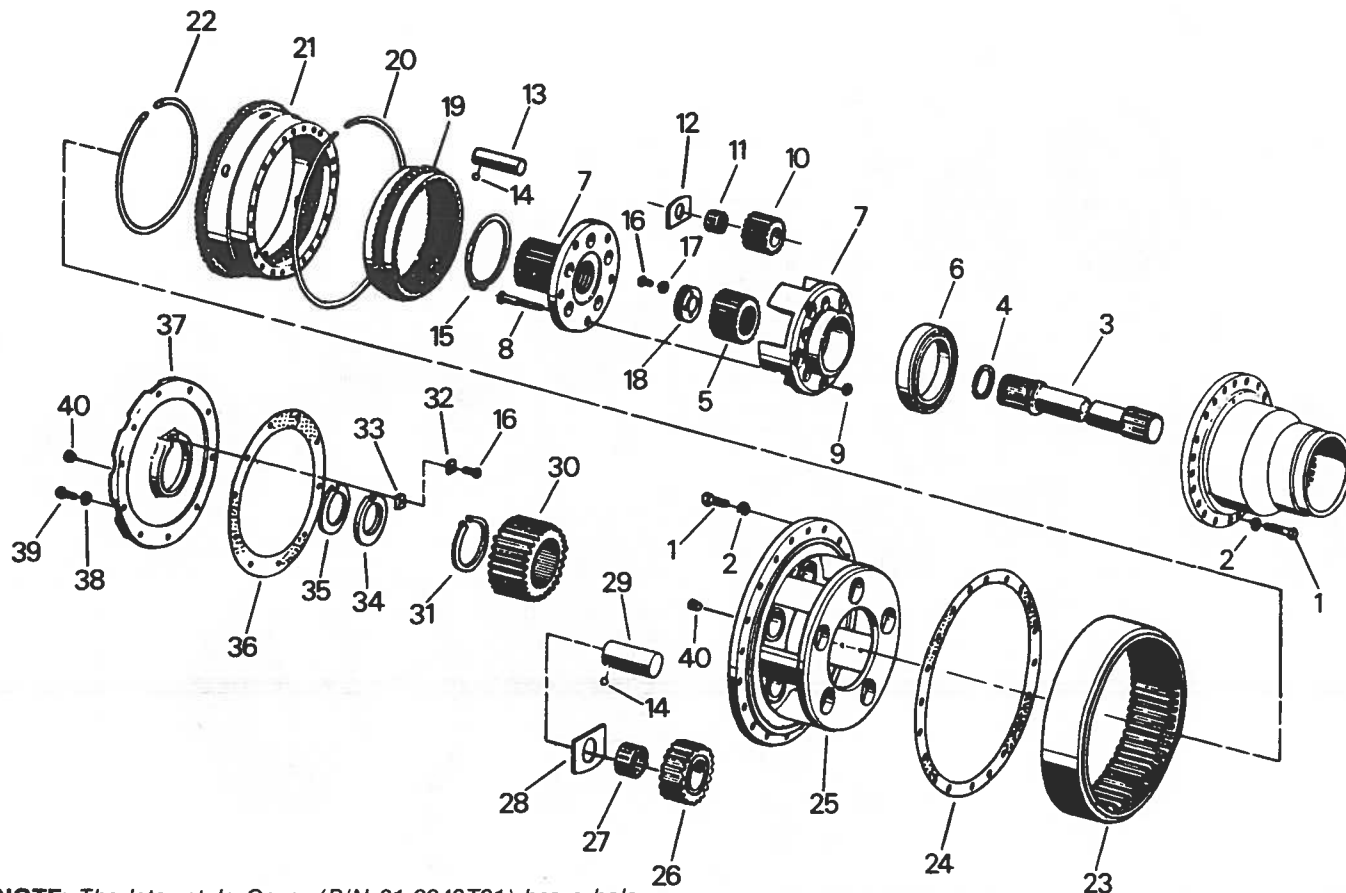


NOTE: The later style Planet Carrier (P/N 01-8338T91) has a hole tapped in it for a Plug (Ref. 40) while the early style Planet Carrier (P/N 01-8338) does not have this hole.

K-598.20/30 Planetary Assembly

Ref.	Part No.	Description	Qty.
1	01-8319	Hexagon Screw	84
2	01-8320	Spring Washer	84
3-5	01-8321	Axle Shaft I Assembly	1
	01-8323	Axle Shaft II Assembly	1
3	01-8322	Axle Shaft I (975 MM)	1
	01-8324	Axle Shaft II (1105 MM)	1
4	16-1596	Snap Ring	2
5	16-1602	Sun Pinion	2
6	16-1597	Ball Bearing	2
7	01-8326	Inner Planet Carrier (incl 8 & 9)	2
8	01-8327	Clamping Screw	10
9	01-8328	Hexagon Nut	10
10-18	01-8325	Planetary Wheel Hub Assy., Inner (also includes Ref. 7)	2
10	16-1604	Planet Pinion	10
11	16-1603	Needle Roller Bearing	20
12	01-8329	Spacer Plate	20
13	16-1606	Planet Pinion Shaft	10
14	16-1607	Steel Ball	20
15	16-1609	Snap Ring	2
16	16-1626	Hexagon Screw	6
17	01-8332	Spring Washer	4

Ref.	Part No.	Description	Qty.
18	01-8333	Support Screw	2
19	01-8334	Ring Gear	2
20	16-1610	Clamping Ring	2
21	01-8335	Double Ring Gear	2
22	01-8336	Circlip	2
23	16-1613	Ring Gear	2
24	16-1614	Gasket	2
25-29	01-8337	Planetary Wheel Hub Assy., Outer (also includes Ref. 14) (Early Style)	2
	01-8337T91	Planetary Wheel Hub Assy., Outer (Later Style)	
25	01-8338	Planet Carrier, Outer (Early Style)	2
	01-8338T91	Planet Carrier, Outer (Later Style) (see Note)	
26	01-8339	Planet Pinion, Outer	10
27	01-8340	Needle Roller Bearing	20
28	01-8341	Spacer Plate	20
29	16-1619	Planet Pinion Shaft, Outer	10
30	16-1622	Sun Pinion, Outer	2
31	16-1623	Snap Ring	2



NOTE: The later style Cover (P/N 01-8342T91) has a hole tapped in it for a Plug (Ref. 40) while the early style Cover P/N 01-8342) does not have this hole.

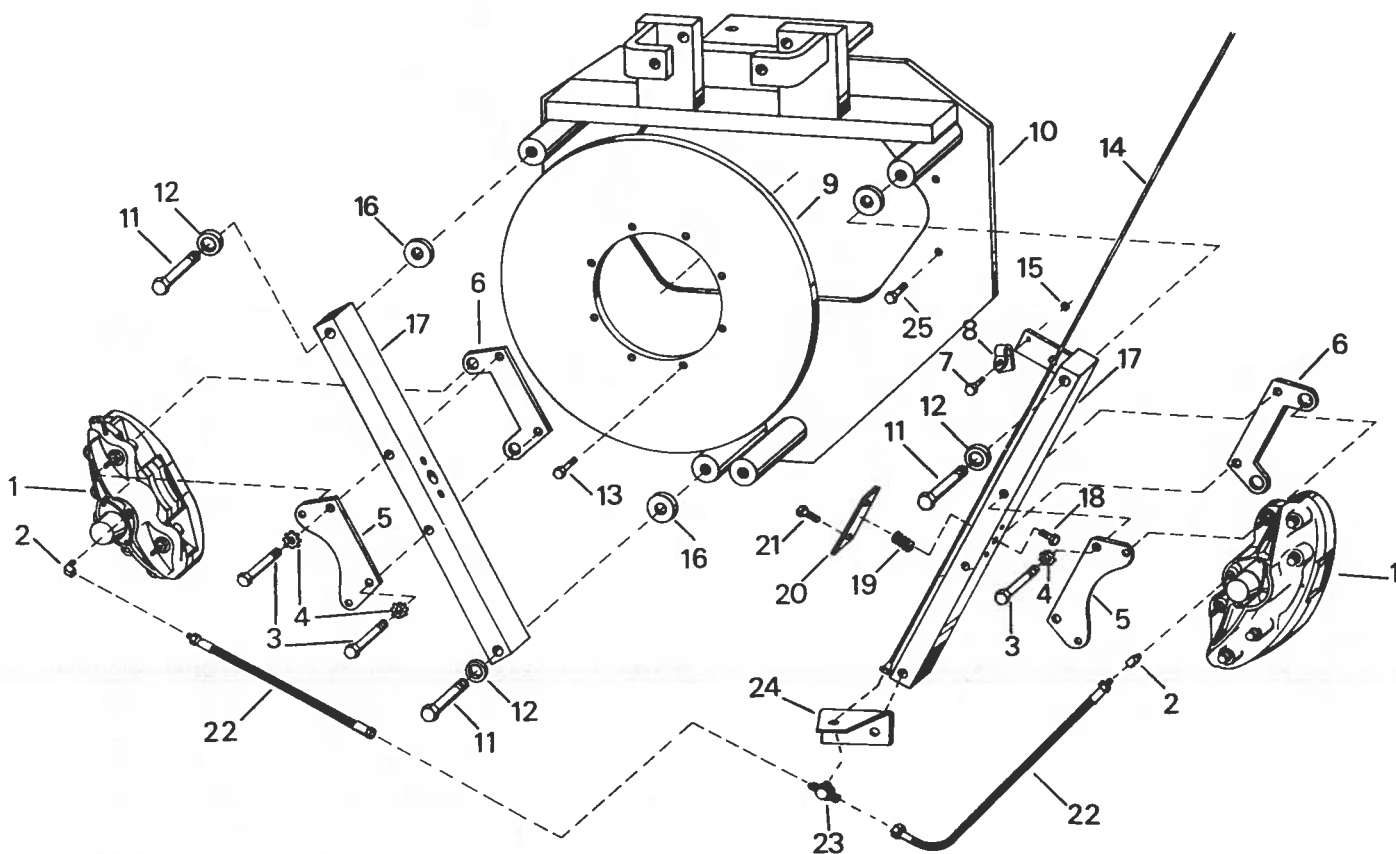
K-598.20/30 Planetary Assembly

Ref.	Part No.	Description	Qty.
32	16-1627	Locking Plate	2
33	16-1628	Clamping Plate	2
34	16-1629	Thrust Bearing	2
35	16-1630	Shim	AR
36	16-1631	Gasket	2

Ref.	Part No.	Description	Qty.
37	01-8342	Cover (Early Style)	2
	01-8342T91	Cover (Later Style) (see Note)	
38	16-1633	Spring Washer	20
39	16-1634	Hexagon Screw	20
40	90-1232T1	Plug	2

Section 5 - Brakes

Description	Page
Hydraulic Brake & Mounting (Single Speed Transfer Case)	5-1
Hydraulic Brake Assy	5-2
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Two Speed Brake Assy & Mt (Stationary Transfer Case)	5-7
Brake Assys - Caliper	5-8
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Brake Caliper Kit	5-10

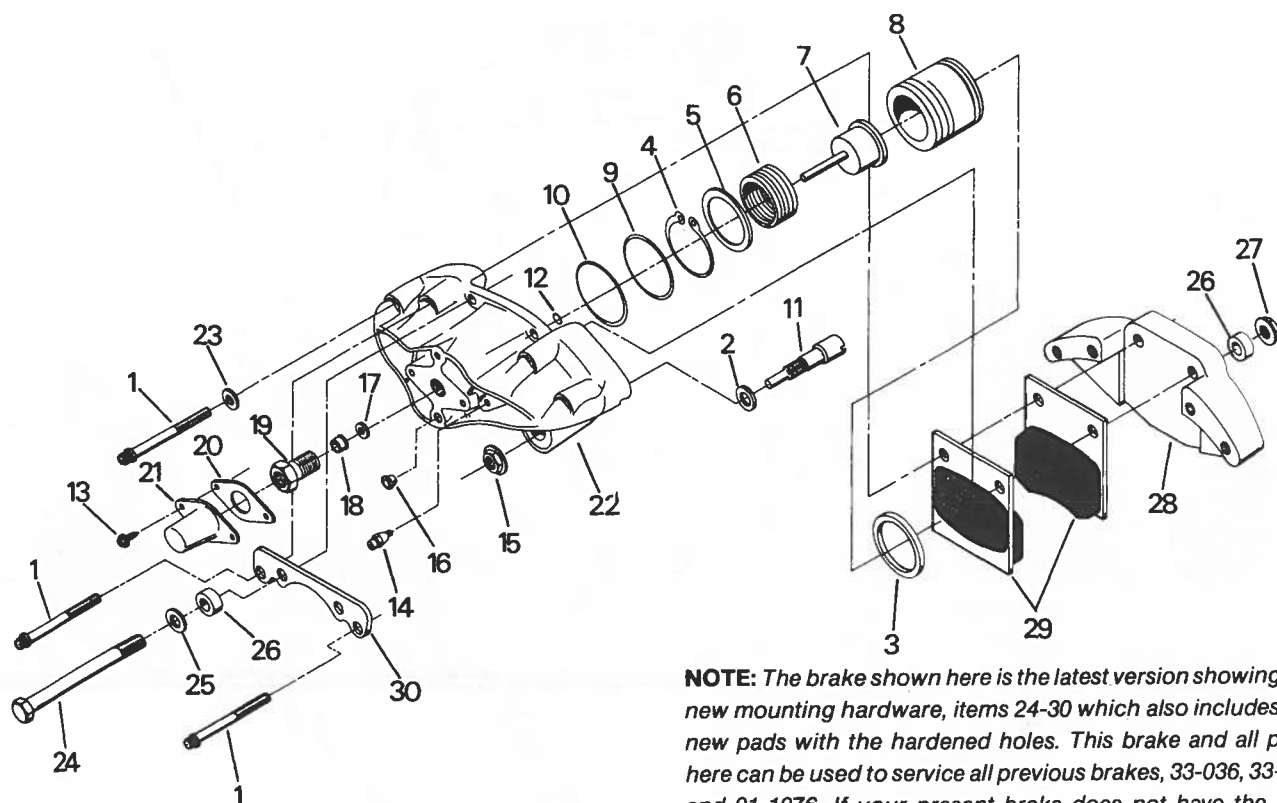


Hydraulic Brake & Mounting

(w/Single Speed Transfer Case)

Ref.	Part No.	Description	Qty.
1	01-1076	Brake Assy	2
	01-6046	Brake Assy (see Page 5-2)	
2	31-237	Elbow	2
3	19-048	Capscrew, 1/2 NC x 3	4
4	19-194	Washer	4
5	01-2945	Hanger (Small Hole)	2
6	01-2946	Hanger (Large Hole)	2
7	19-159	Machine Screw, #10 NC x 3/4	1
8	32-068	Clamp	1
9	55-135	Disc	1
10	55-150	Weldment, Brake Mount	1
11	19-275	Capscrew, 5/8 NC x 3-1/4	4
12	19-120	Washer, 5/8	4
13	19-479	Capscrew, 3/8 NF x 1	8

Ref.	Part No.	Description	Qty.
14	01-366	Brake Line	1
15	19-567	Nut, #10 NC	1
16	19-711	Washer	1
17	33-247	Bar, Brake Mount	2
18	33-237	Capscrew	2
19	66-093	Spring	2
20	33-236	Plate, Retainer	2
21	19-018	Capscrew, 3/8 NC x 1-1/4	4
22	18-1631	Hose	2
23	31-671	Tee, Flare	1
24	33-280	Bracket	1
25	19-652	Capscrew, 3/8 NC x 1-1/2	1

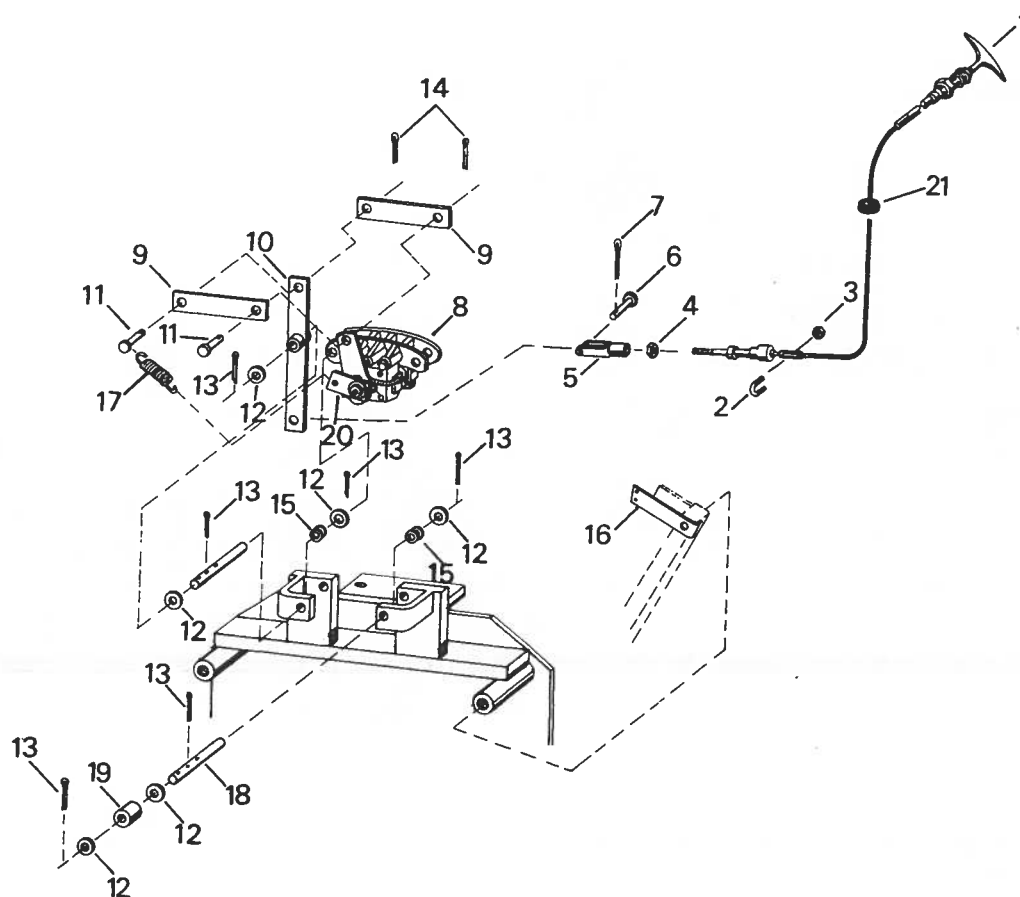


NOTE: The brake shown here is the latest version showing the new mounting hardware, items 24-30 which also includes the new pads with the hardened holes. This brake and all parts here can be used to service all previous brakes, 33-036, 33-234 and 01-1076. If your present brake does not have the new mounting groups, items 24-30, you must order kit #35-1039 which includes those parts plus the new hardened mount hangers part #01-2945 (small hole) & 01-2946 (large hole). These will replace the older 33-108 & 33-109. Item 11, part #01-5553 is a hardened stud that replaces 33-081.

Hydraulic Brake Assembly (w/Single Speed Transfer Case)

Ref.	Part No.	Description	Qty.
1-30	01-6046	Brake Assembly	1
1	19-919	Capscrew	4
2-22	33-140	Piston Side Assy	1
2	19-917	Washer	2
3	33-072	Boot	1
4-8	33-087	Piston Assy	1
4	33-127	Snap Ring	1
5	33-128	Washer	1
6	33-129	Spring	1
7	33-130	Retractor Pin	1
8	33-131	Piston	1
9	33-133	Ring	1
10	33-074	O-Ring	1
11	01-5553	Stud	2
12	33-088	O-Ring	1
13	19-131	Screw, Tapping	2
14	33-136	Fitting	3

Ref.	Part No.	Description	Qty.
15	19-920	Nut	2
16	33-137	Plug	1
17	33-134	Washer	1
18	33-077	Collet	1
19	33-079	Nut	1
20	33-076	Gasket	1
21	33-078	Cover	1
22	NSS	Housing	1
23	33-085	Washer	2
24	01-2882	Pin	2
25	01-2883	Washer	2
26	01-2884	Bushing	4
27	01-2879	Nut	2
28	01-2880	Carrier Side (33-139) (E)	1
29	01-6047	Pad & Holder (01-1074) (E)	2
30	01-2885	Plate, Bridge	1

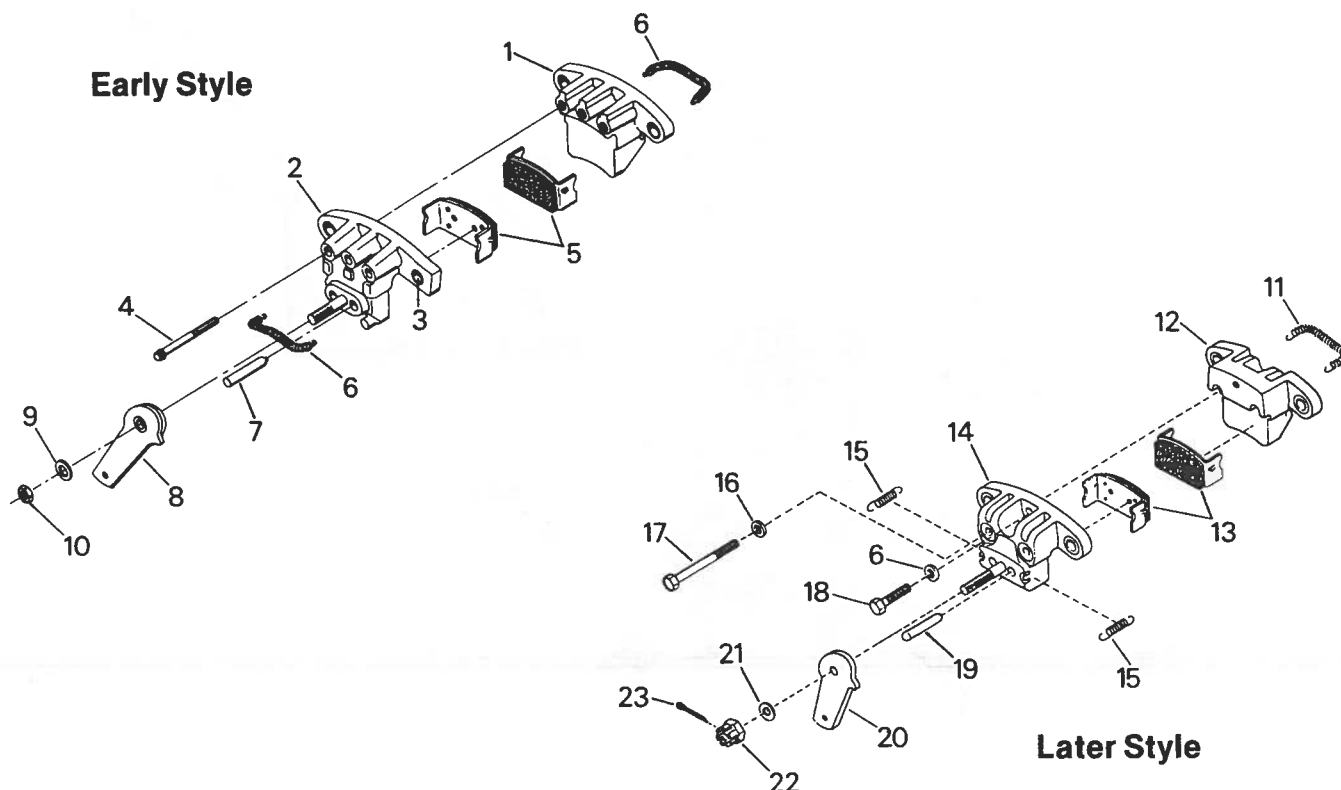


Park Brake & Mounting

(w/Single Speed Transfer Case)

Ref.	Part No.	Description	Qty.
1	33-297	Cable with Handle	1
2	19-964	U-Bolt	1
3	19-508	Nut	2
4	19-089	Nut	1
5	19-141	Yoke	1
6	19-144	Pin, Clevis	1
7	19-170	Cotter Pin	1
8	02-3188T91	Brake Assy (see Page 5-4) (E)	1
9	33-281	Link	2
10	33-285	Link	1
11	19-145	Clevis Pin	2

Ref.	Part No.	Description	Qty.
12	19-711	Washer	6
13	19-658	Cotter Pin	6
14	19-124	Cotter Pin	2
15	22-095	Grommet	2
16	33-298	Bracket, Cable	1
17	11-015	Spring	1
18	33-286	Rod, Brake	2
19	33-287	Stop, Rubber	1
20	33-289	Tab, Spring	1
21	22-421	Grommet	1



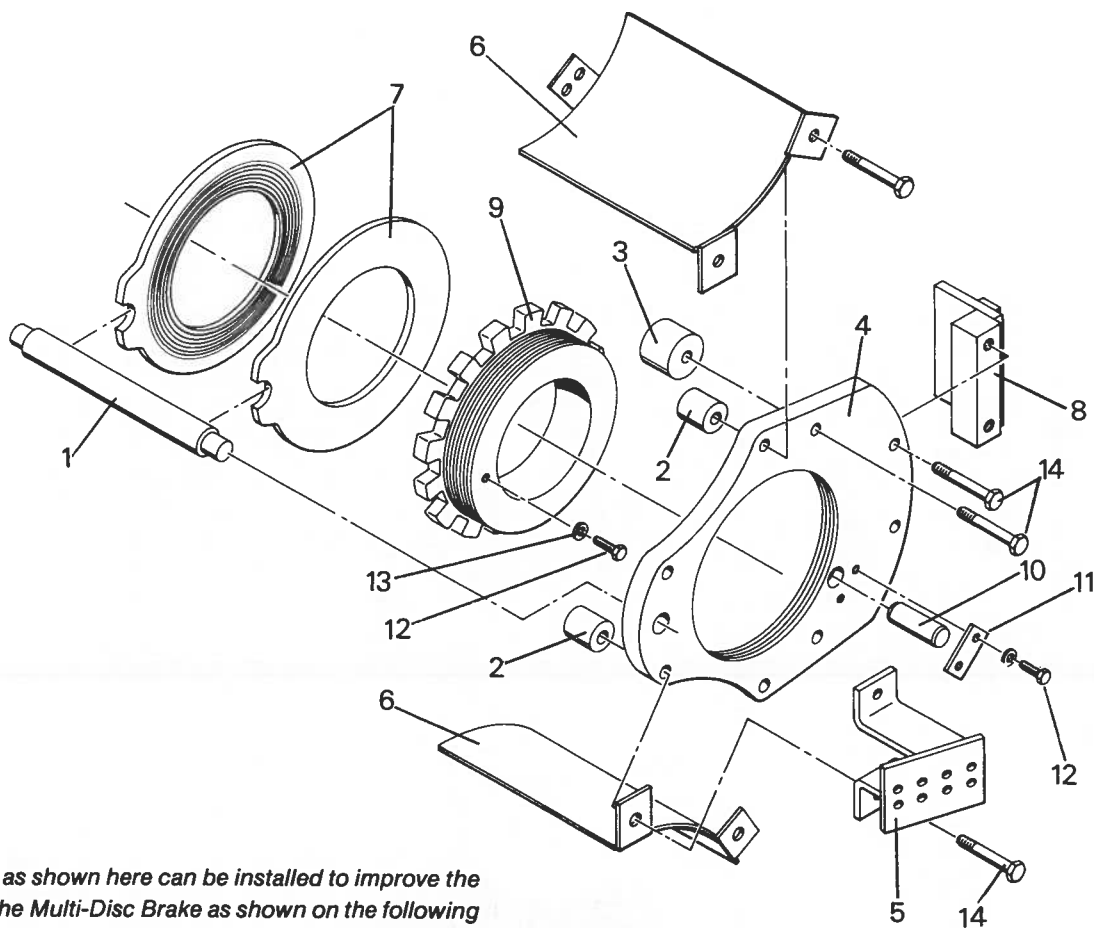
NOTE: When ordering a complete Park Brake Assy.
order P/N 02-3188T91.

Park Brake Assembly (w/Single Speed Transfer Case)

Ref.	Part No.	Description	Qty.
1-10	01-2064	Park Brake Assy (Early Style) (Service w/02-3188T91)	1
1-4	01-3536	Casting & Bushing Assy	1
1	NSS	Carrier Side	1
2	NSS	Cam Side	1
3	NSS	Bushing	4
4	19-919	Capscrew, 12 PT., 3/8 NC x 3-1/2	3
5	33-233	Brake Pad	2
6	33-165	Spring, Tension	2
7	02-3195T1	Pin, Push(33-164) (B)	2
8	01-2062	Cam	1
9	19-917	Washer	1
10	19-094	Lock Nut, 1/2 NF	1

Ref.	Part No.	Description	Qty.
11-23	02-3188T91	Park Brake Assy (Later Style)	1
11	33-165	Spring, Tension	1
12	NSS	Carrier Side	1
13	33-233	Brake Pad	2
14	NSS	Cam Side	1
15	02-3190T1	Spring, Extension	2
16	33-085	Washer	3
17	19-292	Capscrew, 3/8 NC x 3-3/4	2
18	19-019	Capscrew, 3/8 NC x 1-1/2	1
19	02-3195T1	Pin, Push	2
20	02-3189T1	Cam	1
21	02-3196T1	Washer	1
22	02-3191T1	Castle Nut, 1/2 NF	1
23	19-658	Cotter Pin	1

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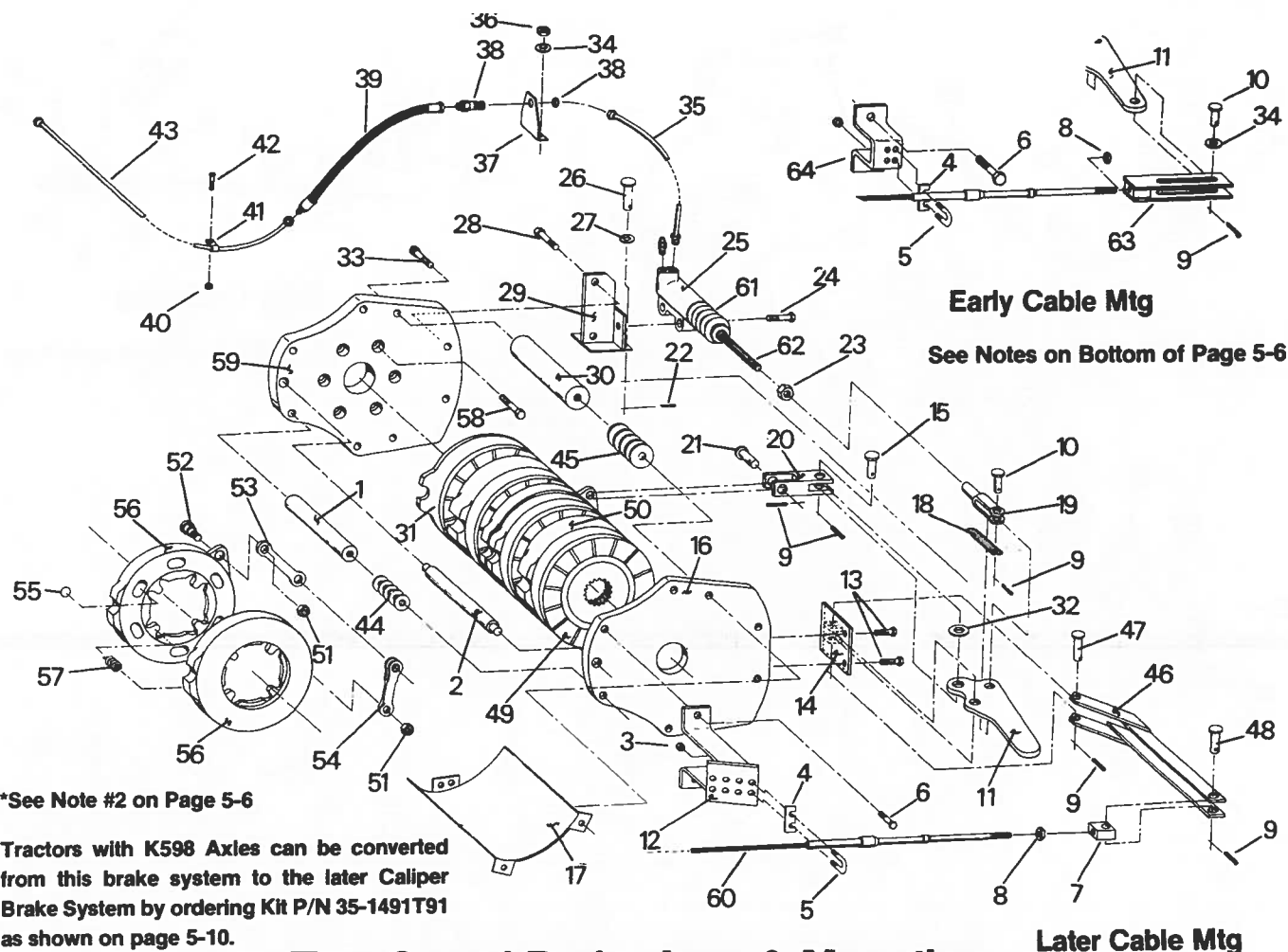


NOTE: The Kit as shown here can be installed to improve the adjustment of the Multi-Disc Brake as shown on the following pages.

Brake Adjuster Kit For Multi-Disc Brake

Ref.	Part No.	Description	Qty.
1-16	35-1456T91	Kit, Brake Adjuster	
1	90-2694T1	Pin, Pivot	1
2	90-2798T1	Spacer, Pin	4
3	90-2799T1	Spacer, Pin	2
4	90-2765T1	Plate, Outside	1
5	90-2695T1	Bracket	1
6	90-2766T1	Shield	2
7	90-2889T1	End Cap, Brake	2
8	90-4033T1	Pivot	1

Ref.	Part No.	Description	Qty.
9	90-2677T1	Adjuster	1
10	90-2676T1	Pin	1
11	90-2761T1	Strap	1
12	19-006	Capscrew	3
13	19-700	Washer	1
14	19-827	Capscrew	8
15	19-5857	Anti-Sieze Compound	1/8 oz
16	R02-6830	Installation Drawing	1

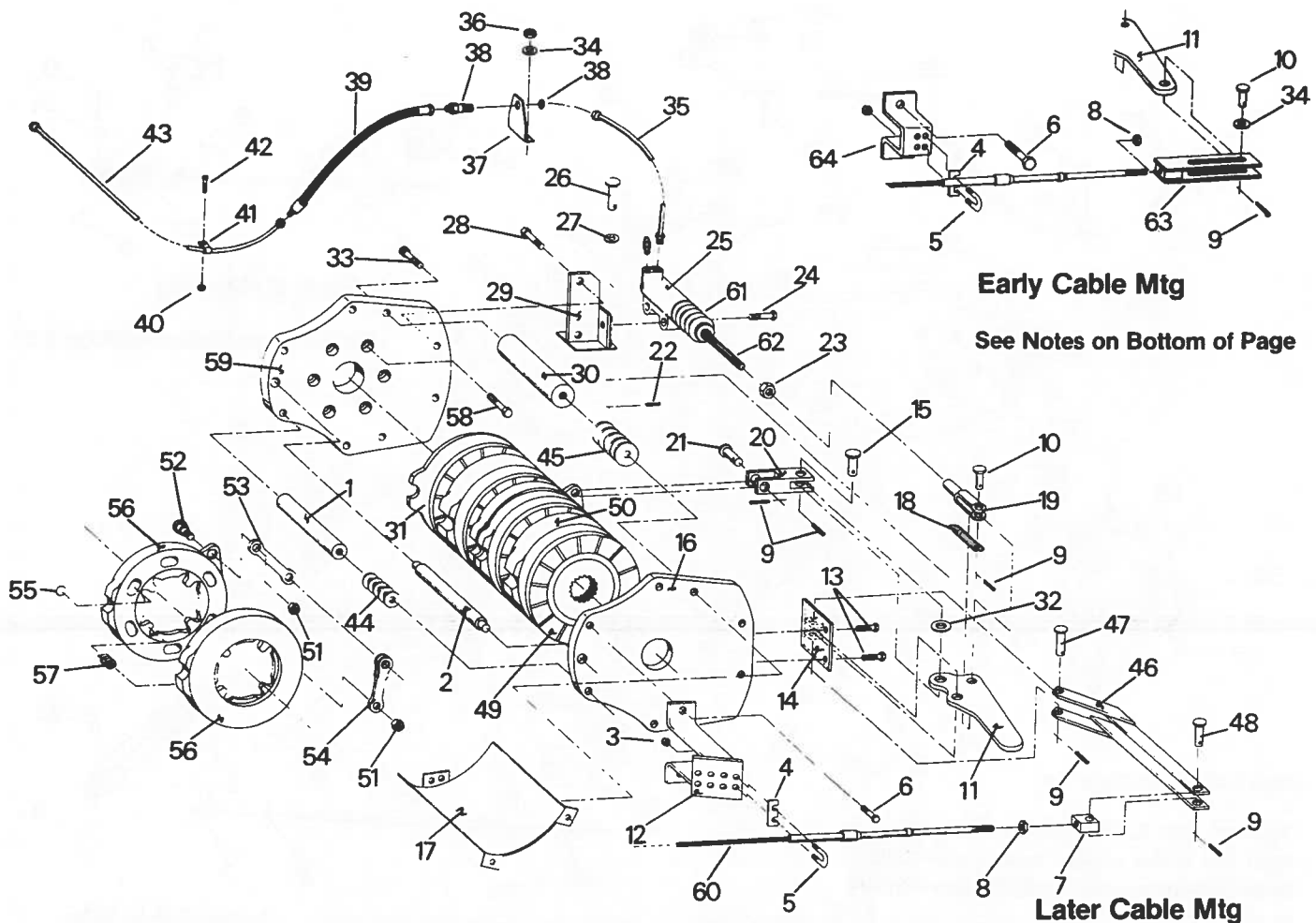


Two Speed Brake Assy & Mounting

(For Swinging Transfer Case)

Ref.	Part No.	Description	Qty.
1	01-6921	Pin, Brake*	6
2	01-6919	Pin, Pivot	1
3	19-077	Nut, 5/16 NC	2
4	01-3767	Shim	1
5	19-964	U-Bolt	1
6	19-046	Capscrew, 1/2 NC x 2	8
7	01-6934	Link	1
8	19-089	Nut, 1/4 NF	1
9	19-168	Cotter Pin	5
10	19-5415	Clevis Pin	1
11	01-2958	Lever	1
12	01-6939	Bracket	1
13	19-1108	Capscrew, 1/2 NC x 1	2
14	01-2086	Pivot	1
15	9417948	Clevis Pin	1
16	01-1912	Plate Outside	1
17	01-4774	Shield	2
18	01-5696	Spring	1
19	19-139	Yoke	1
20	01-2092	Yoke	1
21	9422050	Clevis Pin	1
22	19-170	Cotter Pin	1
23	19-091	Nut, 3/8 NF	1

Ref.	Part No.	Description	Qty.
24	19-581	Capscrew, 7/16 NC x 2	2
25	01-2081	Cylinder, Slave	1
	35-1009	Repair Kit	AR
26	19-144	Clevis Pin	1
27	19-223	Washer, 1/4	1
28	19-792	Capscrew, 1/2 NC x 2-1/2	2
29	01-2082	Bracket	1
30	01-6920	Pin, Brake	2
31	90-2889T1	Plate, End (01-1913) (E)	1
32	19-463	Washer, 1/2	1
33	19-554	Capscrew, 1/2 NC x 2	6
34	19-107	Washer, 3/8	2
35	01-2139	Brake Line	1
36	19-078	Nut, 3/8 NC	2
37	01-4612	Bracket	1
38	31-1391	Adapter	1
39	31-1390	Hose Assy	1
40	19-567	Nut, #10 NC	1
41	32-068	Clamp	3
42	19-233	Machine Screw, #10 NC x 1/2	1
43	01-2141	Brake Line	1
44	19-5507	Shim*	30



Two Speed Brake Assy & Mounting

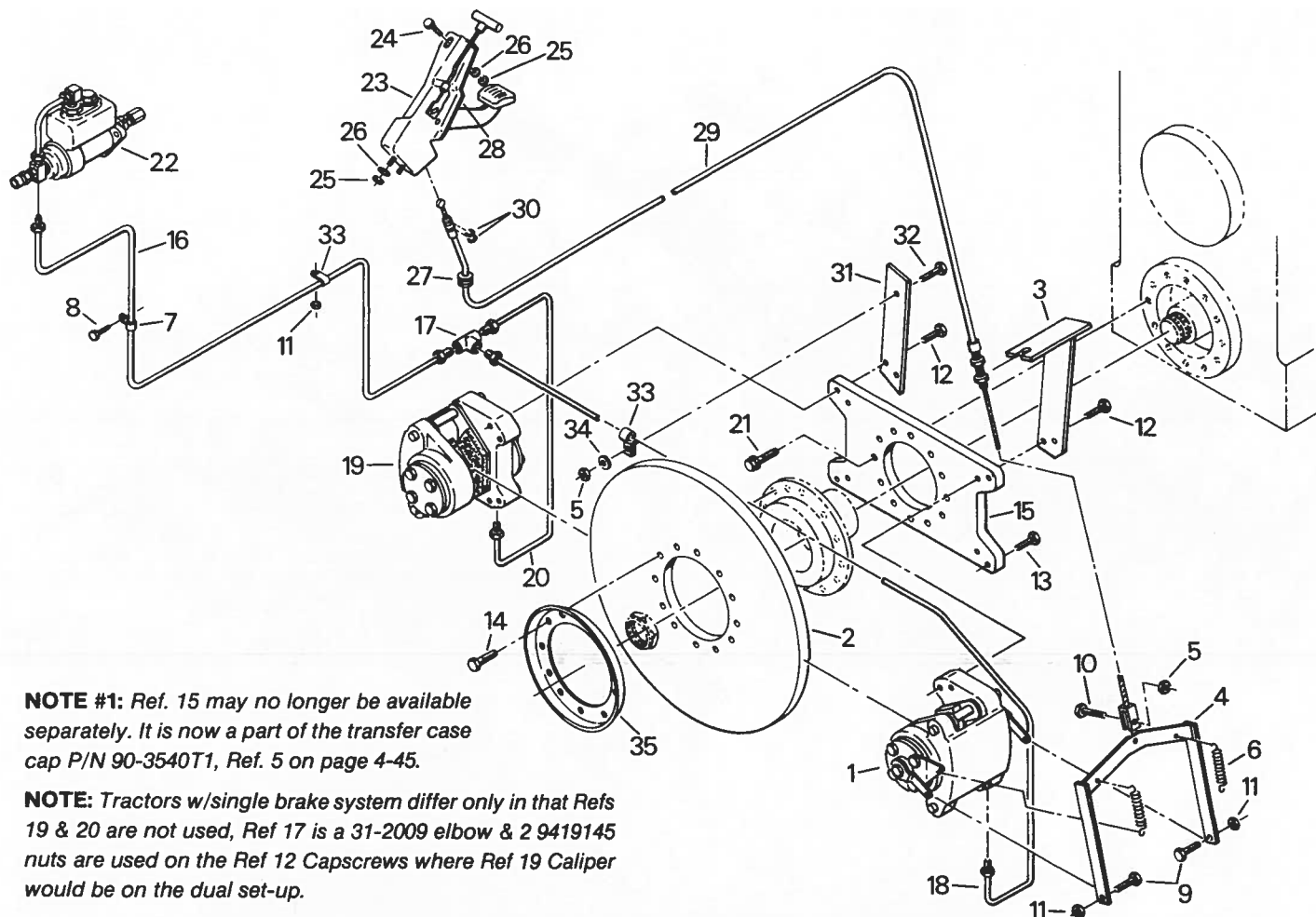
(For Swinging Transfer Case)

Ref.	Part No.	Description	Qty.
45	19-5506	Shim	10
46	01-6945	Arm, Lever	1
47	42-102	Clevis Pin	1
48	9416912	Clevis Pin	1
49-57	01-4669	Brake Assembly	1
49	01-4668	Disc, Metal	4
50	01-3322	Disc, Intermediate	2
	01-3323	Disc Assy, Actuating (contains only Ref. 51-57)	1
51	19-237	Nut, 1/2 NF	2
52	01-3324	Stud	2
53	01-3325	Link	1
54	01-3326	Link, Yoke	1
55	01-3327	Ball	6

Ref.	Part No.	Description	Qty.
56	01-3328	Disc, Actuating	2
57	01-3329	Spring, Extension	4
58	19-044	Capscrew, 1/2 NC x 1-1/4	6
59	01-2266	Plate, Inside	1
60	60-1388T1	Cable, Park Brake (01-6955) (F)	1
	01-1051	Grommet (in Floorboard w/Brake Cable)	1
61	01-3082	Boot	1
62	01-4663	Pushrod	1
63		Yoke (see Note 1)	1
64		Bracket (see Note 1)	1
	35-1112T91	Kit, Brake Cable (see Note 1)	
	35-1108	Kit, Brake Shims (see Note 2)	

NOTE #1: Items 63 & 64 must be serviced by ordering kit #35-1112. Kit contains 7, 9, 12, 46, 47, 48 & 60.

NOTE #2: Some early brakes did not have the adjustment shims, items 44 & 45, in which case Kit #35-1108 (incl 1, 2, 30, 17, 44 & 45) should be installed. The part numbers shown here for items 1, 2 & 30 are for the latest pins which are used with the shims, so if any of those are needed on a tractor without the shims, the kit must be ordered.

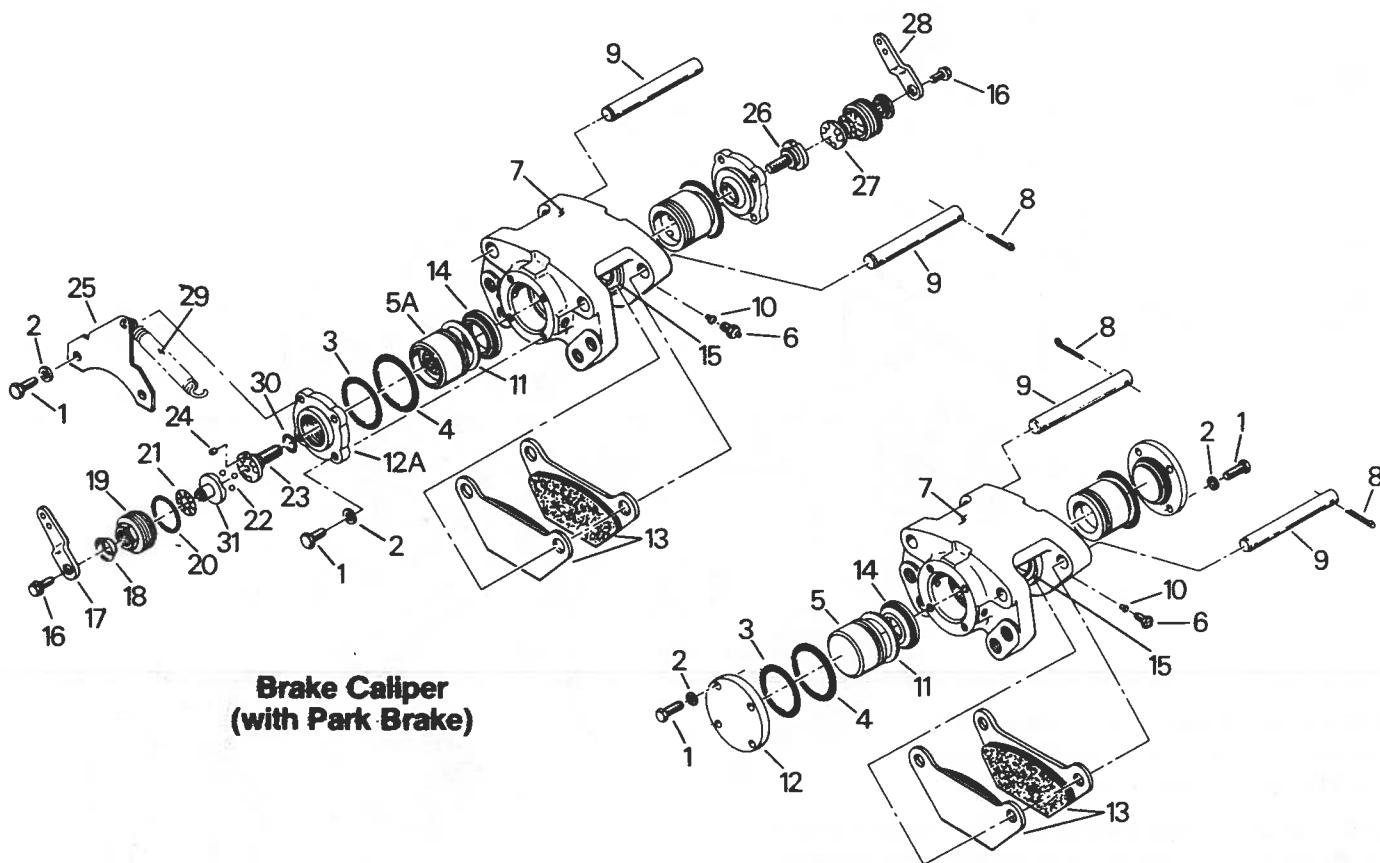


NOTE #1: Ref. 15 may no longer be available separately. It is now a part of the transfer case cap P/N 90-3540T1, Ref. 5 on page 4-45.

NOTE: Tractors w/single brake system differ only in that Refs 19 & 20 are not used, Ref 17 is a 31-2009 elbow & 2 9419145 nuts are used on the Ref 12 Capscrews where Ref 19 Caliper would be on the dual set-up.

Brake Group - Caliper Style (ASN 2000) (Feb 82)

Ref.	Part No.	Description	Qty.	Ref.	Part No.	Description	Qty.
1		Brake Caliper (w/Park (see Next Page)	1	20	90-2182T2	Tube Assy	1
2	90-3469T1	Disc, Brake	1	21		Capscrew (part of Transfer Case on Page 4-45)	
3	90-4027T1	Bracket	1	22		Master Cyl (see Page 5-9)	1
4	90-4030T1	Bracket	1	23	60-2225T2	Park Brake Lever Assy	1
5	19-341	Nut, Lock	2	24	19-007	Capscrew	1
6	90-2902T1	Spring (Part of Ref 1)	2	25	19-508	Nut, Lock	3
7	32-068	Clamp	2	26	19-700	Washer	3
8	19-131	Tap Screw	1	27	22-486	Grommet	1
9	19-654	Capscrew	2	28	20-1463T1	Switch, Assy (Brake Warning)	1
10	19-799	Capscrew	1	29	60-2457T1	Cable	1
11	19-802	Nut, Lock	3	30	19-5867	Retaining Ring, Ext	1
12	19-817	Capscrew	4	31	90-2864T1	Brace	1
13	19-839	Capscrew	4	32	9418822	Capscrew	1
14	19-5892	Capscrew, Flanged (w/Ref. 35)	12	33	31-1862	Clamp	2
	19-6007	Capscrew, Flanged (w/o Ref. 35)		34	9419393	Washer	1
15	90-2786T1	Plate (see Note #1)	1	35	90-3489T1	Slinger, Grease (not necessary to use)	1
16	90-3535T2	Tube Assy	1				
17	31-1865	Adapter	1				
18	90-2900T1	Tube Assy	1				
19		Brake Caliper (non Park) (see Next Page)	1				



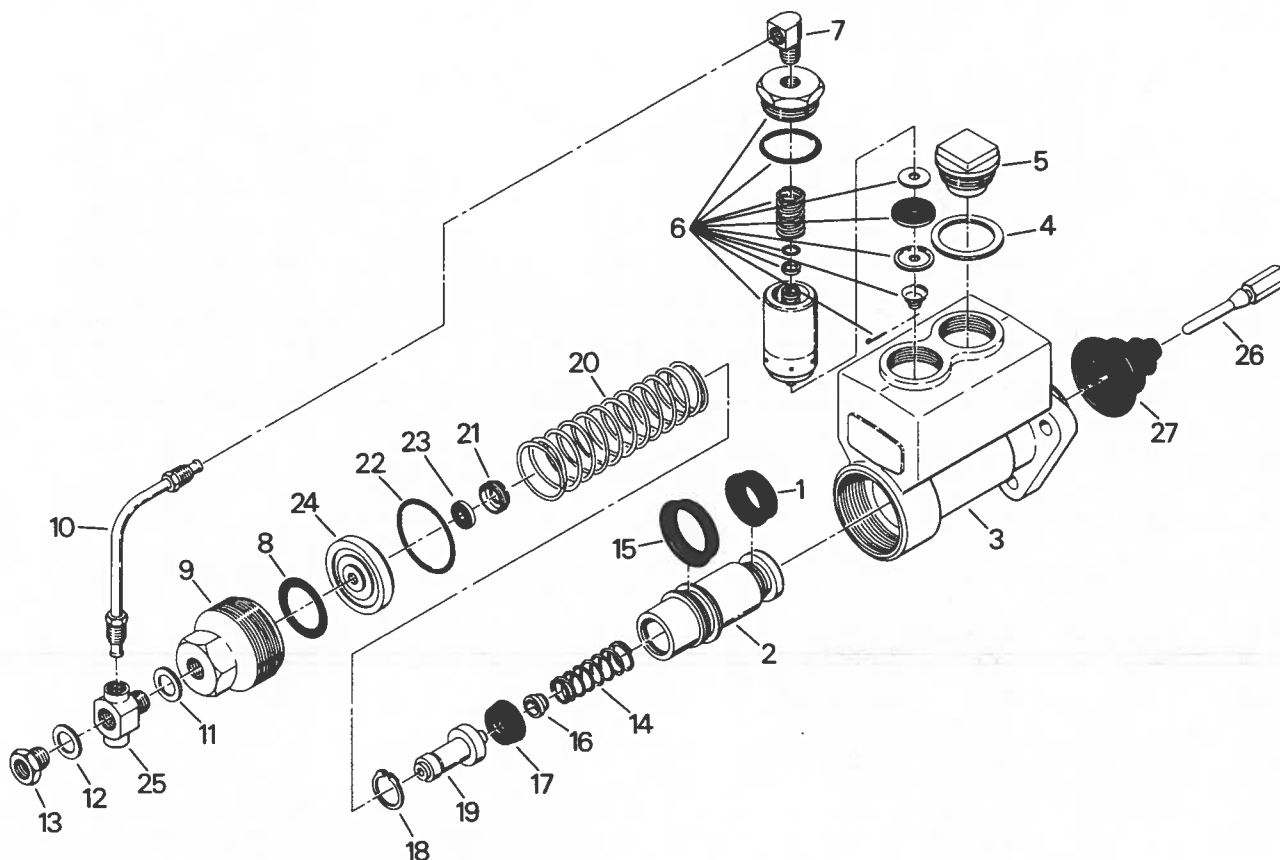
**Brake Caliper
(with Park Brake)**

**Brake Caliper
(w/o Park Brake)**

Brake Caliper Assemblies (w/Stationary Transfer Case) (ASN 2000)

Ref.	Part No.	Description	Qty.
1-31	90-1352T91	Brake Caliper Assy (with Park Brake)	1
1-15	90-1992T91	Brake Caliper Assy (w/o Park Brake)	1
1	90-3445T1	Capscrew	8
2	19-117	Lock Washer (qty 4 on Brake Caliper P/N 90-1992T91)	8
3	90-3479T1	O-Ring	2
4	90-3480T1	Seal	2
5	90-3463T1	Piston	2
5A	90-3443T1	Piston	2
6	90-3460T1	Bleeder Screw	3
7	90-3442T1	Caliper Housing	1
8	19-658	Cotter Pin	4
9	90-3458T1	Pin	2
10	90-3459T1	Tube Seat Insert	4
11	90-3481T1	Insulator	2
12	90-3464T1	End Cap	2
12A	90-3444T1	Mount	2
13	90-3457T1	Pad Holder Assy	2

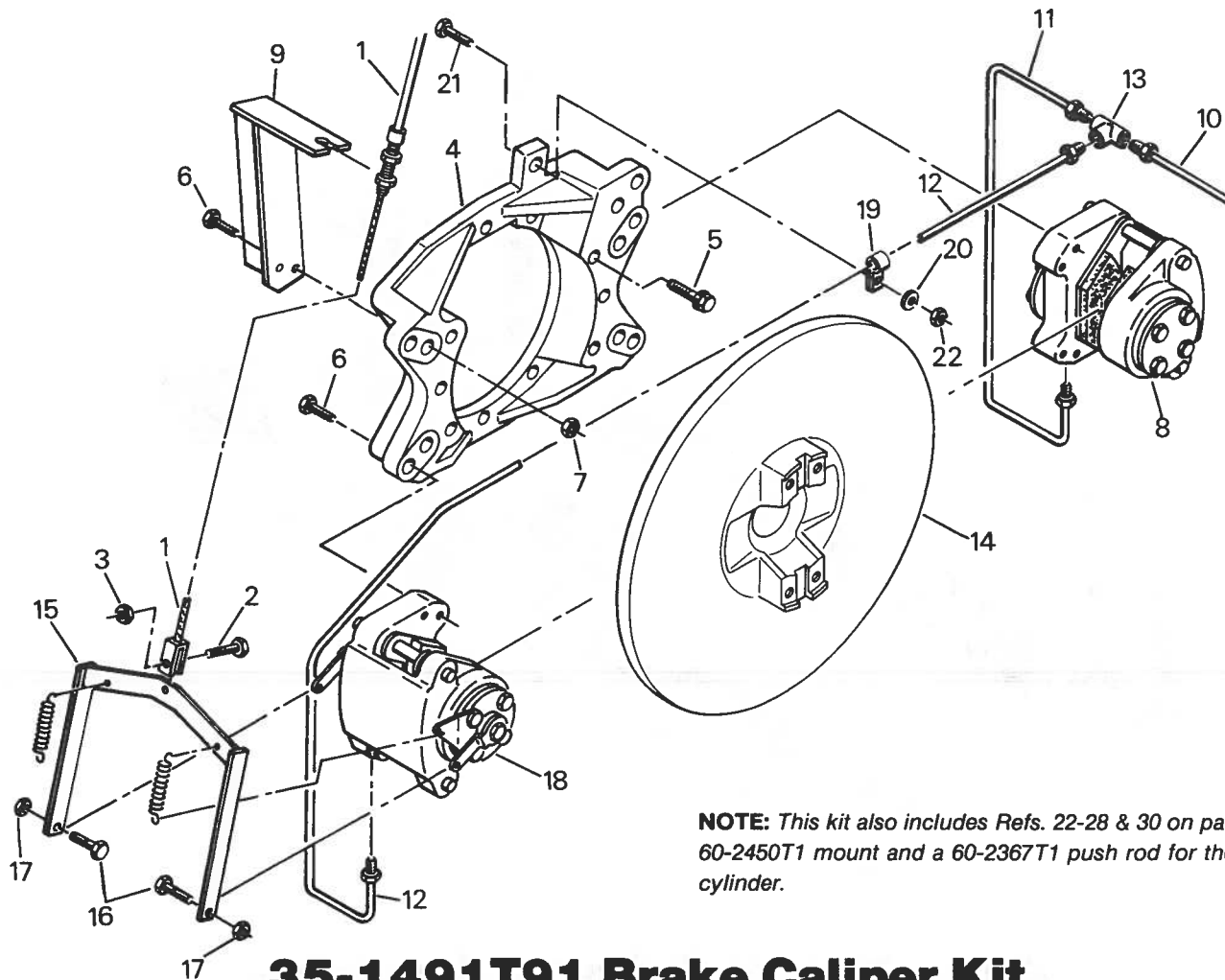
Ref.	Part No.	Description	Qty.
14	90-3461T1	Retainer	2
15	90-3482T1	Boot	2
16	90-3456T1	Machine Screw	2
17	90-3455T1	Lever	1
18	90-3477T1	Seal	2
19	90-3453T1	Retainer	2
20	90-3478T1	O-Ring	2
21	90-3452T1	Thrust Bearing	2
22	90-3449T1	Ball	6
23	90-3447T1	Thrust Screw	1
24	90-3448T1	Pin	2
25	90-3462T1	Bracket	2
26	90-3446T1	Thrust Screw	1
27	90-3450T1	Actuator Shaft	1
28	90-3454T1	Lever (Right)	1
29	90-2902T1	Spring	2
30	90-3483T1	O-Ring	2
31	90-3451T1	Actuator Shaft	1



Brake Master Cylinder Assembly (w/Stationary Transfer Case) (ASN 2000)

Ref.	Part No.	Description	Qty.
1-27	60-2821T91	Brake Master Cylinder Assy	1
	02-6646T1	Repair Kit (incl Ref. 1, 4, 6, 8, 11, 12, 15, 17, 18, 21-23 & 27)	
1	NSS	Cup	1
2	NSS	Piston	1
3	NSS	Housing	1
4	02-1206	Gasket	1
5	02-1210T1	Filler Plug	1
6	NSS	Relief Valve Assy	1
7	02-6647T1	Elbow	1
8	NSS	Seal	1
9	02-6648T1	End Plug	1
10	02-6649T1	Tubing	1
11	NSS	Gasket	1
12	NSS	Gasket	1

Ref.	Part No.	Description	Qty.
13	02-6650T1	Adapter	1
14	NSS	Spring	1
15	NSS	Cup	1
16	NSS	Retainer	1
17	NSS	Cup	1
18	NSS	Retaining Plug	1
19	NSS	Piston	1
20	NSS	Spring	1
21	NSS	Retainer	1
22	NSS	O-Ring	1
23	NSS	Seat	1
24	NSS	Retainer	1
25	02-6651T1	Fitting Block	1
26	02-6652T1	Push Rod	1
27	NSS	Boot	1



NOTE: This kit also includes Refs. 22-28 & 30 on page 5-7, a 60-2450T1 mount and a 60-2367T1 push rod for the master cylinder.

35-1491T91 Brake Caliper Kit (K598 Axle only)

Ref.	Part No.	Description	Qty.
1	60-3417T1	Cable	1
2	19-799	Capscrew	1
3	19-341	Lock Nut	1
4	90-3814T1	Brake Mt	1
5	40-1185	Capscrew, 12 Pt, M14 x 120	6
	40-1186	Capscrew, 12 Pt, M14 x 60	6
6	9424760	Capscrew	10
7	19-083	Nut	2
8		Brake Caliper (w/o Park) (see Page 5-8)	1
9	90-3808T1	Cable Bracket	1
10	90-3854T1	Tube Assy	1

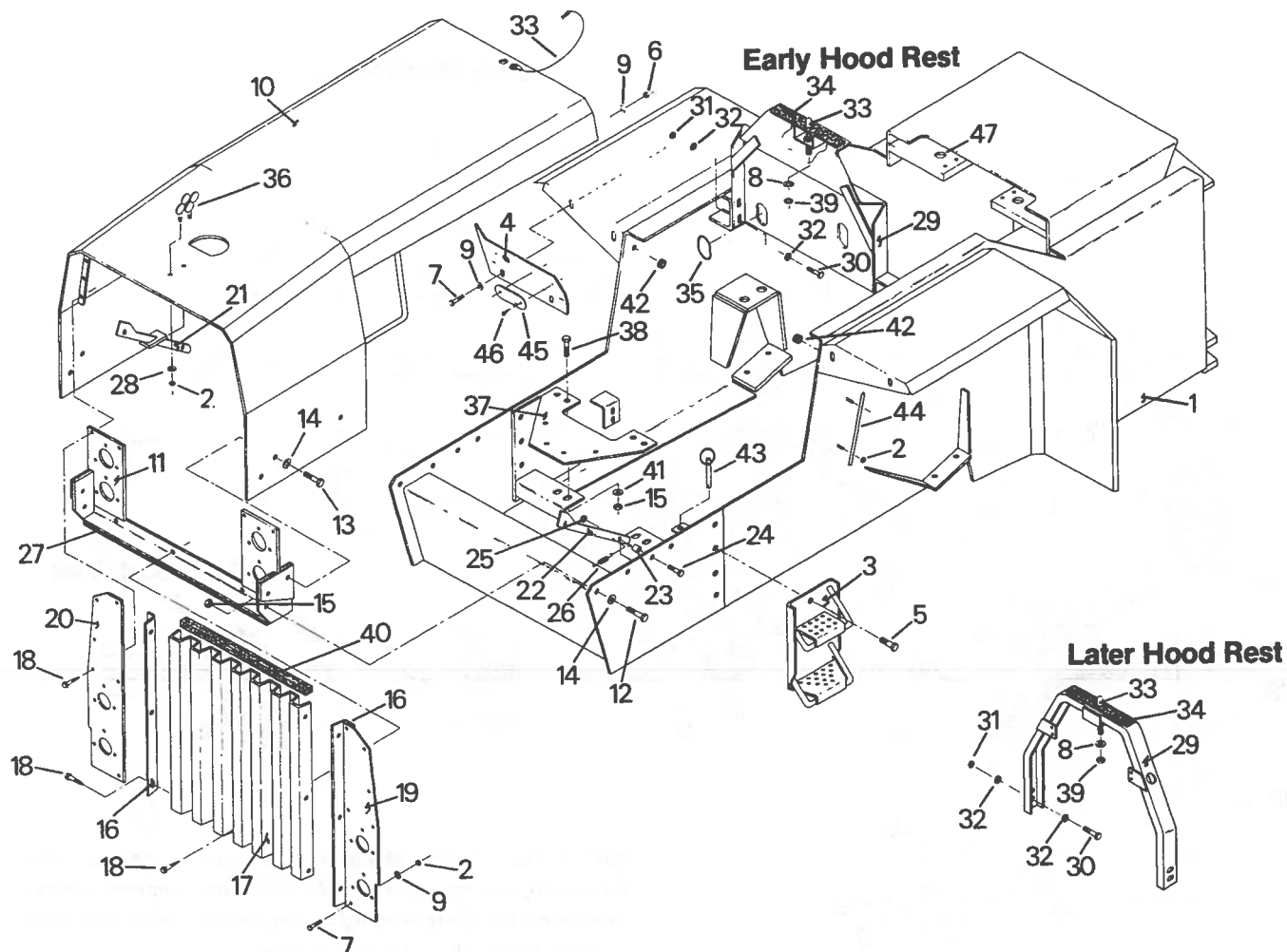
Ref.	Part No.	Description	Qty.
11	90-3855T1	Tube Assy	1
12	90-3856T1	Tube Assy	1
13	31-1865	Adapter (Tee)	1
14	90-3812T1	Brake Disc w/Yoke	1
15	90-4030T1	Bracket	1
16	19-654	Capscrew	2
17	19-802	Lock Nut	2
18		Brake Caliper (w/Park) (see Page 5-8)	1
19	31-1862	Clamp	1
20	19-107	Washer	1
21	19-018	Capscrew	1
22	19-078	Nut	1

Section 6 - Frame

Description	Page
Front Frame	6-1 & 6-2
Battery Box & Steps	6-3
Center Yoke Assembly	6-4
Rear Frame	6-5
Drawbar & Mounting	6-6

Section 6 - Frame

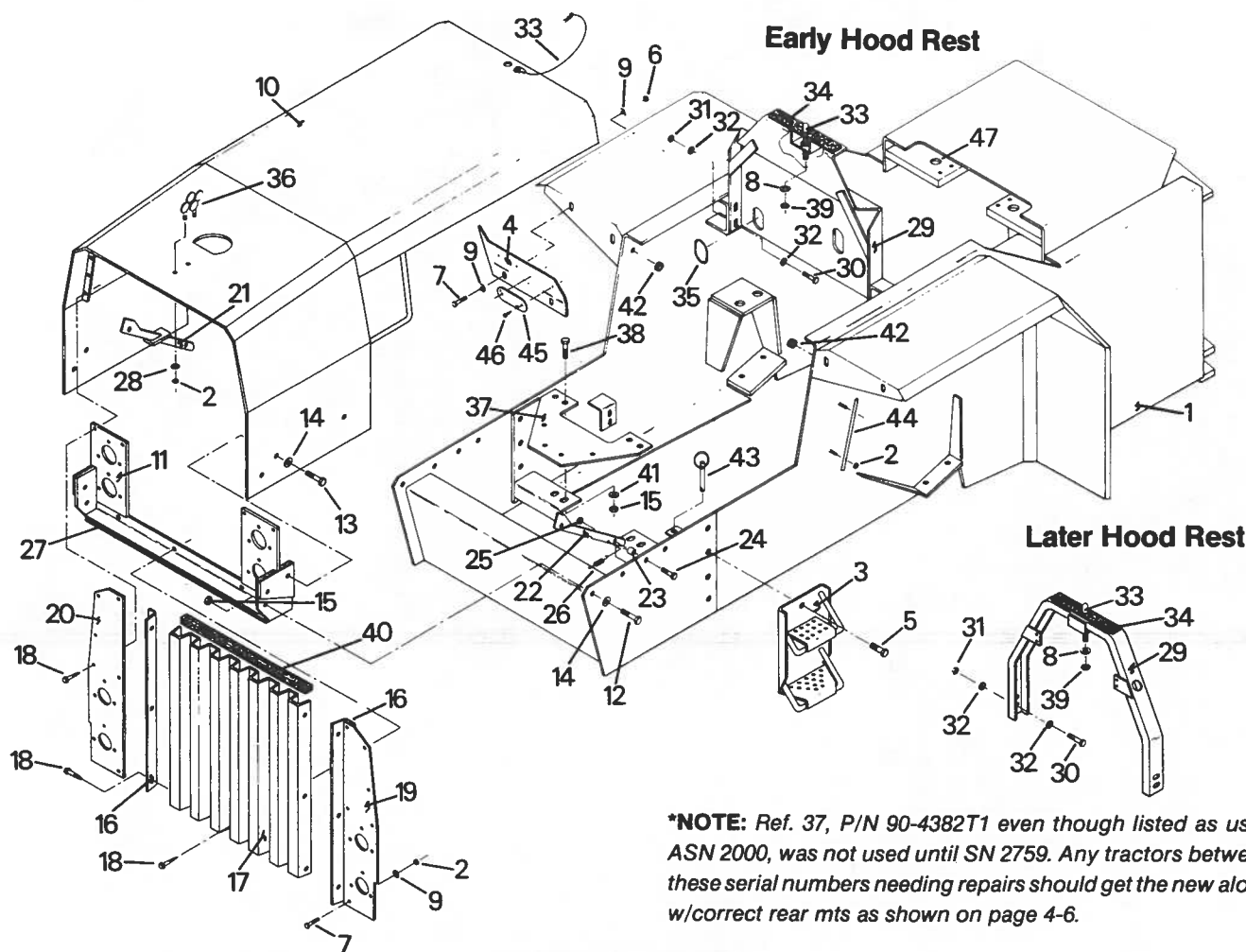
Page	Old P/N	New P/N	Code	Model	SN Break
6-3	01-462 01-493	70-1161T1	D	ST 220	103-00230
				ST 225	109-00001
				ST 250	104-00330
				ST 270	105-00792
				ST 251CP	106-00482
				ST 310CP	107-00752
				ST 320	108-00212
				ST 325	123-00814
				ST 350	139-00059
				ST 280	110-00001
				ST 280	111-00001
6-6	53-106	01-4905T1	D	ST 220	103-00230
				ST 250	104-00331
				ST 270	105-00517
				ST 251	106-00271
				ST 310	107-00510
				ST 320	108-00212
				ST 325	123-00428
				ST 350	139-00001
				ST 251CP	106-00291
				ST 310CP	107-00517
				ST 225	109-00001
				ST 280	110-00001
				ST 280	111-00001
6-7	53-034	03-1004	D	ST 220	103-00187
				ST 250	104-00266
				ST 270	105-00305
				ST 251	106-00166
				ST 310	107-00314
				ST 320	108-00187
				ST 325	123-00062
				ST 225	109-00001
				ST 280	110-00001
				ST 280	111-00001
				ST 350	139-00001



Front Frame

Ref.	Part No.	Description	Qty.
1		Front Frame (special order)	1
2	19-076	Nut (Repl by 19-417 Capscrew w/ later Hood Sight)	2
3	51-449	Step Plate (LH Standard)	1
4	51-473	Wire Cover (Right)	1
	51-472	Wire Cover (Left)	
5	19-187	Capscrew	4
6	19-291	Lock Nut	4
7	19-002	Capscrew	10
8	19-463	Washer	2
9	19-223	Washer	14
10	01-514	Hood (855 & 3406)	1
	01-550	Hood (3306 & 903)	
11	01-523	Hood Pivot	1

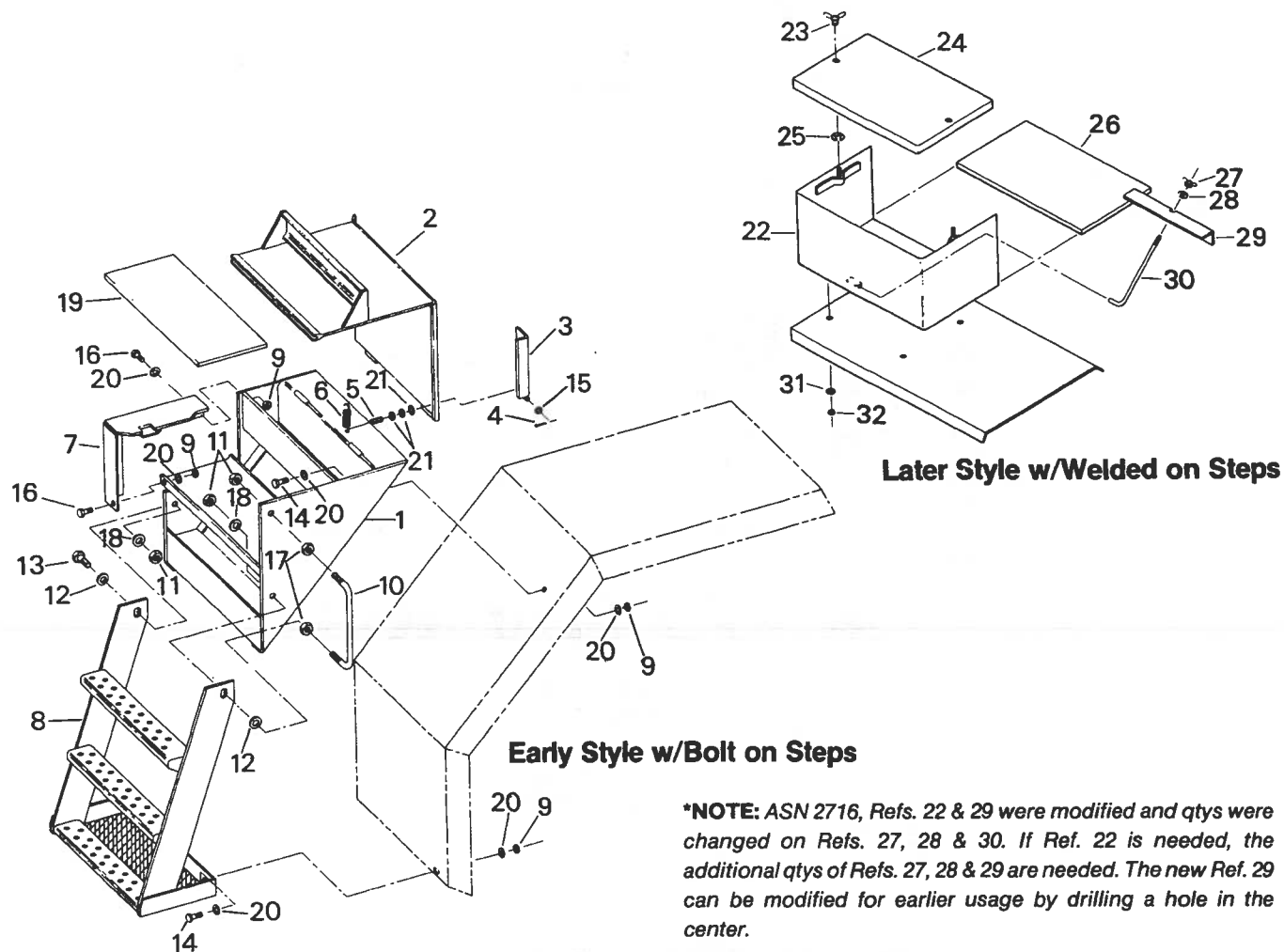
Ref.	Part No.	Description	Qty.
12	19-839	Capscrew	2
13	19-675	Capscrew	4
14	19-111	Washer	6
15	19-222	Lock Nut	2
		(qty 8 w/3406 engine)	
16	01-531	Angle, Grille	2
17	01-532	Screen	1
18	9419897	Screw, Tapping	15
19	01-533	Side Screen (Left)	1
20	01-534	Side Screen (Right)	1
21	01-535	Hood Latch (Right)	1
22	01-538	Hood Latch (Left)	1
23	01-443	Bushing	2
24	19-044	Capscrew	2
25	19-082	Lock Nut	2
26	11-016	Spring	1
27	01-513	Foam Pad	1
28	19-467	Lock Washer	2



Front Frame

Ref.	Part No.	Description	Qty.
29	70-1240T2	Hood Rest, Late Style (Repl earlier 01-1000, used on all except 903, & 01-1001, used w/903) (B)	1
30	19-019	Capscrew	4
31	19-087	Lock Nut	4
32	19-107	Washer	8
33	01-545	Latch, Hood (Includes 8, 39 & following)	1
	19-093	Nut, 1/2 NF	1
	02-4121T1	Pin (main)	1
	02-4120T1	Lanyard Cable	1
	19-5768	Pin, Clip	1
	19-5620	Tap Screw	1
34	51-540	Foam Pad (Early Hood Rest)	1
	01-4073	Foam Pad (Later Hood Rest)	1
35	24-220	Edging (Early Hood Rest)	2
36	01-549	Hood Sight (Early ones had mtg studs, the newer ones are tapped 1/4 NC)	1

Ref.	Part No.	Description	Qty.
37	01-1018T1	Support, Engine (3406) (BSN 2000)	1
	90-4382T1	Support, Engine (3406) (ASN 2000)*	1
38	19-840	Capscrew	6
39	22-368	Lock Nut	2
40	01-1922	Foam	1
41	19-1071	Washer	4
42	22-288	Grommet	2
43	19-5466	Pin (G)	1
44	51-366	Wire Guard (used on some early models only)	2
45	22-832	Reflector	4
46	19-131	Screw, Tapping	8
47	15-044	Weld-in Bushing	1



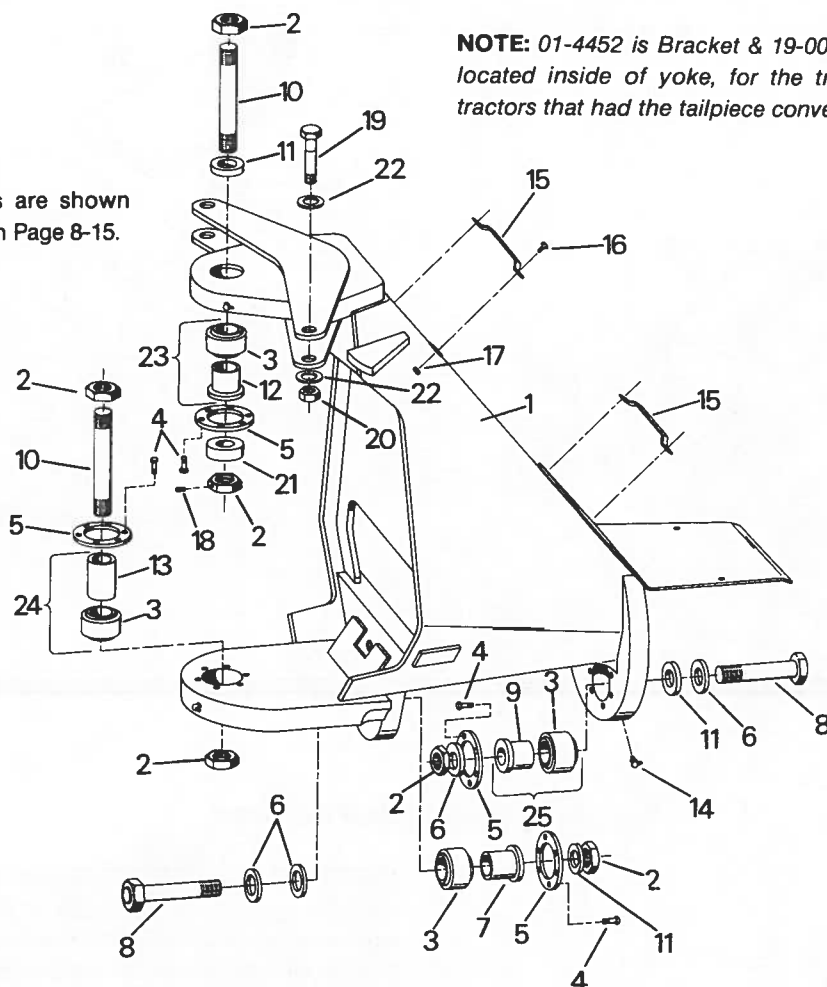
Battery Boxes

Ref.	Part No.	Description	Qty.
1	01-462	Battery Box (Left) (D)	1
	01-493	Battery Box (Right) (D)	
2	01-473	Left Door, Battery Compartment	1
	01-495	Right Door, Battery Compartment	
3	01-565	Door Latch (Left)	1
	01-561	Door Latch (Right)	
4	19-124	Cotter Pin	2
5	01-484	Threaded Rod	2
6	11-015	Spring	2
7	01-485	End Cover (Left)	1
	01-498	End Cover (Right)	
8	01-500	Ladder	2
9	19-087	Lock Nut	16
10	01-491	Rail	2
11	19-085	Lock Nut	6
12	19-112	Washer	4
13	19-252	Capscrew	2
14	19-017	Capscrew	12
15	19-224	Washer	2
16	19-016	Capscrew	4

Ref.	Part No.	Description	Qty.
17	19-084	Nut	4
18	01-560	Spacer	4
19	01-492	Base, Battery	2
20	19-107	Washer	28
21	19-078	Nut	4
22	70-1161T2	Battery Box (D)	1
23	45-219	Wing Nut	2
24	70-1148T1	Cover	1
25	45-216	Clip	2
26	70-1153T1	Insulator, Battery	1
27	19-340	Wing Nut	1/2*
28	19-109	Washer	1/2*
29	70-1142T2	Angle*	1
30	70-1152T2	Rod	1/2*
31	19-107	Washer	4
32	19-078	Nut	4

52-130 Bushings are shown
w/steering cyls on Page 8-15.

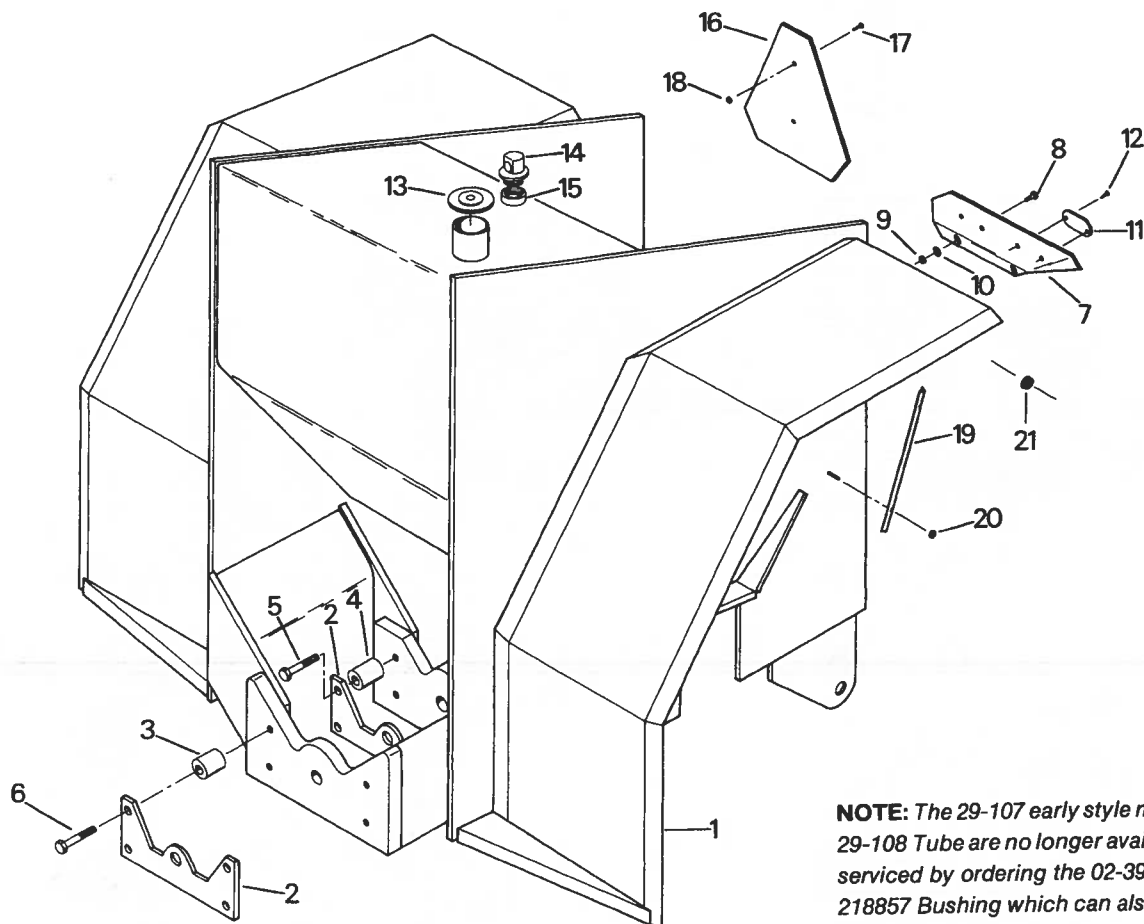
NOTE: 01-4452 is Bracket & 19-008 is a Capscrew, that are
located inside of yoke, for the transfer steering on early
tractors that had the tailpiece conversion kit installed.



Center Yoke Assembly

Ref.	Part No.	Description	Qty.
1	52-126	Center Yoke (BSN 2000) (illustrated)	1
	01-4431T1	Center Yoke (ASN 2000) (not shown)	1
2	02-017	Nut, King Pin	6
3	15-040	Uniball	4
4	19-016	Capscrew	24
5	42-003	Retainer	4
6	01-4088	Washer (ASN 2730, only 1 is used where the 2 are shown together)	4/3
7	52-015	Bushing (BSN 2730) (Service w/70-2446T1 but 1 of Ref. 6 must be removed)	1
	70-2446T1	Bushing (ASN 2730)	1
8	52-070	King Pin	2
9	52-046	Bushing	1
10	52-042	King Pin	2
11	52-121	Spacer	3

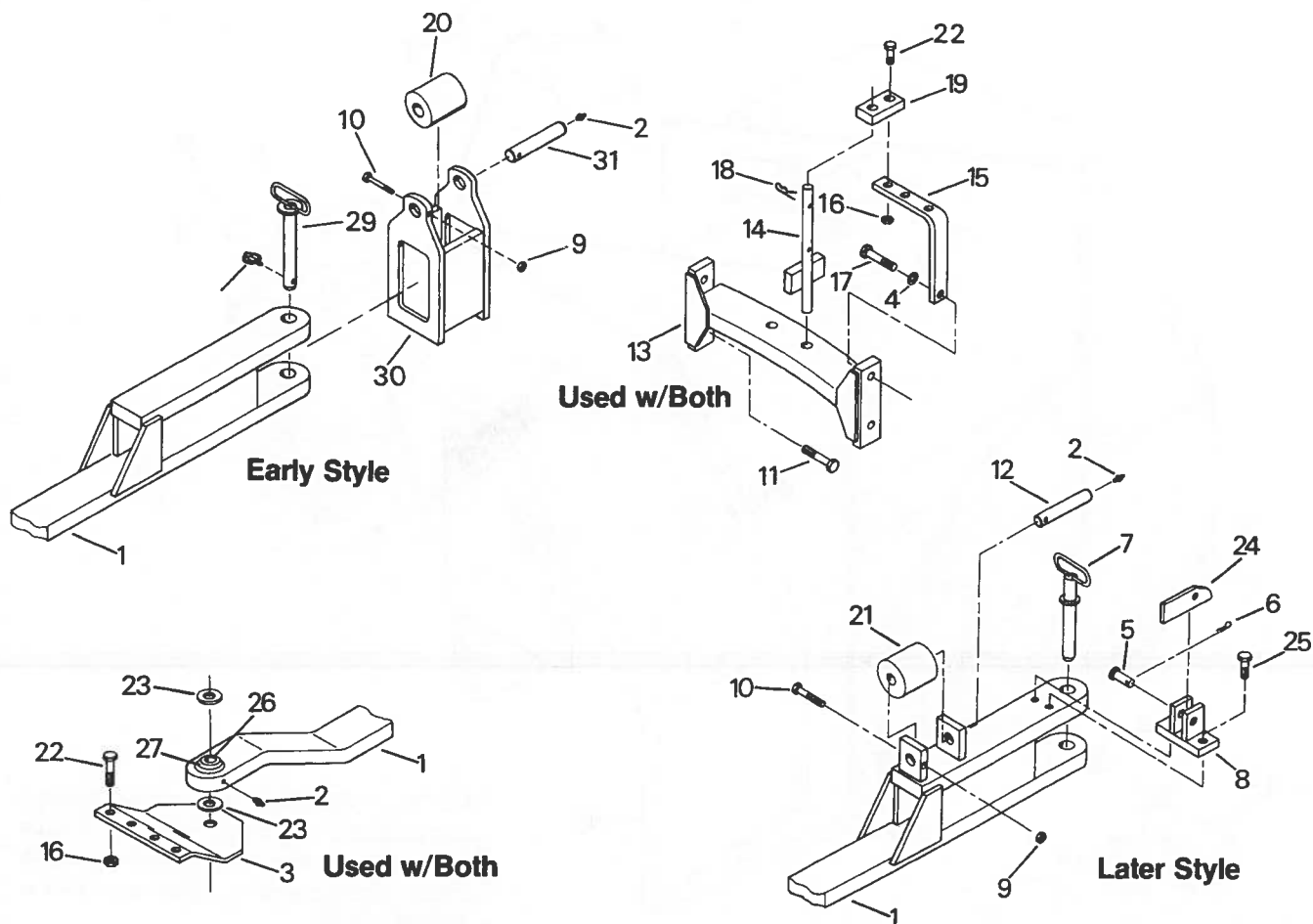
Ref.	Part No.	Description	Qty.
12	52-122	Bushing	1
13	52-029	Bushing	1
14	31-093	Zerk	4
15	52-075	Hose Clamp	3
16	19-007	Capscrew	6
17	19-077	Nut	6
18	19-219	Set Screw	6
19	19-915	Capscrew	2
20	19-916	Jam Nut	2
21	51-060	Spacer	1
22	19-938	Washer	4
23	01-3083	Uniball Assy (incl 3 & 12)	1
24	01-3085	Uniball Assy (incl 3 & 13)	1
25	01-3084	Uniball Assy (incl 3 & 9)	



Rear Frame

Ref.	Part No.	Description	Qty.
1	53-112	Rear Frame (A305 axle)	1
	01-8611	Rear Frame (other axles)	
	01-4987T1	Rear Frame (ASN 2000, w/stationary transfer case)	
2	51-384	Plate, Hinge Support	2
3	51-385	Spacer, Hinge Support Plate (Front)	4
4	51-386	Spacer, Hinge Support Plate (Rear)	4
5	19-268	Capscrew, 3/4 NC x 6	4
6	19-930	Capscrew, 3/4 NC x 5-1/2	4
7	51-472	Wire Cover (Right)	1
	51-473	Wire Cover (Left)	
8	19-002	Capscrew, 1/4 NC x 1	4
9	19-291	Lock Nut, 1/4 NC	4
10	19-223	Washer, 1/4	8
11	01-2655	Reflector	4
12	19-131	Screw, Tapping, #10 NC x 1/2	8

Ref.	Part No.	Description	Qty.
13	01-4853	Fuel Cap	1
14	02-3924T91	Gauge, Fuel Level, Manual (Repl 29-107) (E) (02-4889T1 Dial is only serviced Part)	1
	01-8353	Sender, Fuel Level, Electric (20-1379T1 Dial & 20-1380T1 Gasket are only serviced Parts)	1
15	218857	Bushing (used w/02-3924T91 Gauge only)	1
16	26-001	Emblem, SMV (Metal Backed)	1
17	19-233	Machine Screw, #10 NC x 1/2	2
18	19-567	Nut, #10 NC	2
19	51-366	Wire Guard	2
20	19-076	Nut, 1/4 NC	4
21	22-095	Grommet	2



Drawbars & Mounting

Ref.	Part No.	Description	Qty.
1	53-106	Drawbar (D) (Early Style)	1
	01-4905T1	Drawbar (D) (Later Style)	1
2	31-094	Zerk	2
3	51-025	Drawbar Hinge Plate	1
4	19-112	Washer, 3/4	2
5	42-102	Pin	1
6	19-168	Cotter Pin	1
7	01-4896	Pullpin, Drawbar	1
8	01-4908	Pivot, Latch	1
9	19-082	Nut, 1/2 NC	1
10	19-041	Capscrew, 1/2 NC x 4-1/2	1
11	19-394	Capscrew, 1/2 NC x 2	2
12	01-4900	Pin, Roller	1
13	40-511	Hanger, Drawbar	1
14	53-107	Drawbar Stop	2
15	53-111	Mount, Hydraulic Coupler	2
16	19-085	Lock Nut, 3/4 NC	6
17	19-216	Capscrew, 3/4 NC x 3	2
18	19-843	Hairpin	2

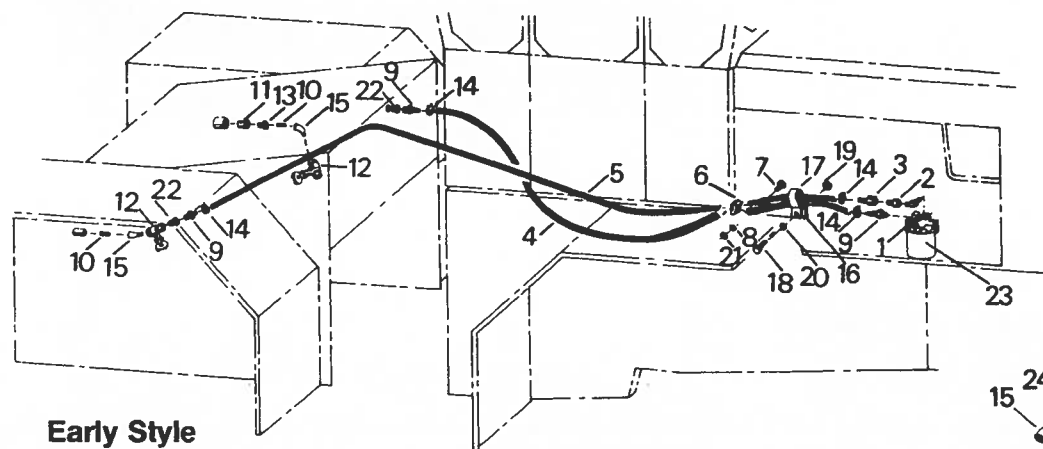
Ref.	Part No.	Description	Qty.
19	53-110	Top Link, Drawbar Stop	2
20	43-045	Roller	1
21	01-4901	Roller	1
22	19-063	Capscrew, 3/4 NC x 2-1/2	6
23	52-043	Washer	2
24	01-4906	Latch	1
25	19-059	Capscrew, 5/8 NC x 1-1/2	2
26	40-140	Uniball	1
27	40-139	Uniball Housing	2
28	19-1041	Click Pin	1
29	43-049	Pullpin, Drawbar	1
30	53-034	Roller Yoke (used with 2" thick Drawbar Hanger) (D)	1
	03-1004	Roller Yoke (used with 1-1/2" thick Drawbar Hanger) (D)	
31	43-046	Pin, Roller	1

Section 7 - Fuel

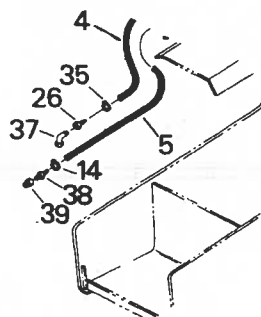
Description	Page
Fuel System (3306 Cat Engine)	7-1
Water Separator & Mounting (3306 Cat Engine)	7-2
Fuel System (855 Cummins Engine)	7-3
Fuel System (903 Cummins Engine)	7-4
Fuel System (3406 Cat Engine)	7-5

Section 7 - Fuel

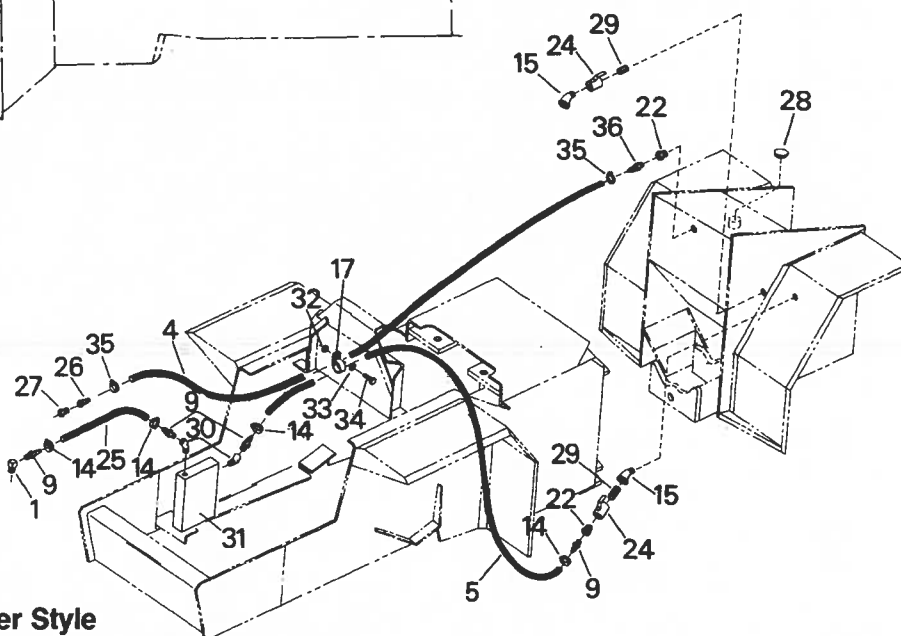
Page	Old P/N	New P/N	Code	Model	SN Break
7-1	32-308	31-1587	D	ST 225 ST 250 ST 270	109-00001 to 109-02000 104-00331 to 104-02000 105-00886 to 105-02000
7-5	32-1022	01-2621	D	ST 325 ST 280	123-00095 111-00001



Early Style



W/DIT & DITA Engines
(Does not use water separator)



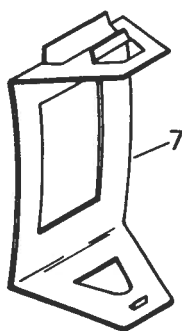
Later Style

Fuel Systems

3306 Cat Engine

Ref.	Part No.	Description	Qty.
1	31-208	Elbow	1
2	31-552	Adapter	1
3	31-553	Fitting	1
4	32-308	Hose (3/8 ID)	1
	31-1587	Hose (1/4 ID)	1
	31-1946	Hose (1/4 ID) (ASN 2000)	1
5	32-307	Hose (Early Style) (3/8 ID)	1
	31-1375	Hose (Later Style) (1/4 ID)	1
	31-1947	Hose (ASN 2000) (1/4 ID)	1
6	32-070	Clamp	1
7	19-011	Screw, #10 NC x 1-1/4	1
8	19-195	Washer, 3/16	1
9	31-137	Adapter	3
10	31-199	Nipple	2
11	31-658	Reducer	1
12	31-059	Valve	2
13	31-175	Reducer	1
14	32-029	Clamp	4
15	31-210	Elbow	2
16	25-395	Strap	1
17	32-343	Clamp	1
18	19-001	Capscrew, 1/4 NC x 3/4	1
19	19-291	Nut, 1/4 NC	1

Ref.	Part No.	Description	Qty.
20	19-223	Washer, 1/4	1
21	19-567	Nut, #10 NC	1
22	31-181	Reducer	2
23	28-025	Element, Fuel Filter	AR
24	31-1267	Valve	2
25	31-1729	Hose	1
26	31-553	Fitting (use w/ 3/8 Hose)	1
	31-1588	Fitting (use w/ 1/4 Hose)	1
27	31-552	Adapter (use w/ 3/8 Hose only)	1
28	01-4853	Fuel Cap	1
29	31-345	Nipple	2
30	444054	Fitting	2
31	35-1166	Water Separator (see following Page)	
32	19-087	Locknut, 3/8 NC	1
33	19-107	Washer, 3/8	1
34	19-019	Capscrew, 3/8 NC x 1-1/2	1
35	32-029	Clamp (use w/ 3/8 Hose)	2
	32-059	Clamp (use w/ 1/4 Hose)	2
36	31-137	Adapter (use w/ 3/8 Hose)	1
	31-1186	Adapter (use w/ 1/4 Hose)	1
37	9410278	Elbow	1
38	31-218	Adapter	1
39	31-1547	Adapter (8)	1



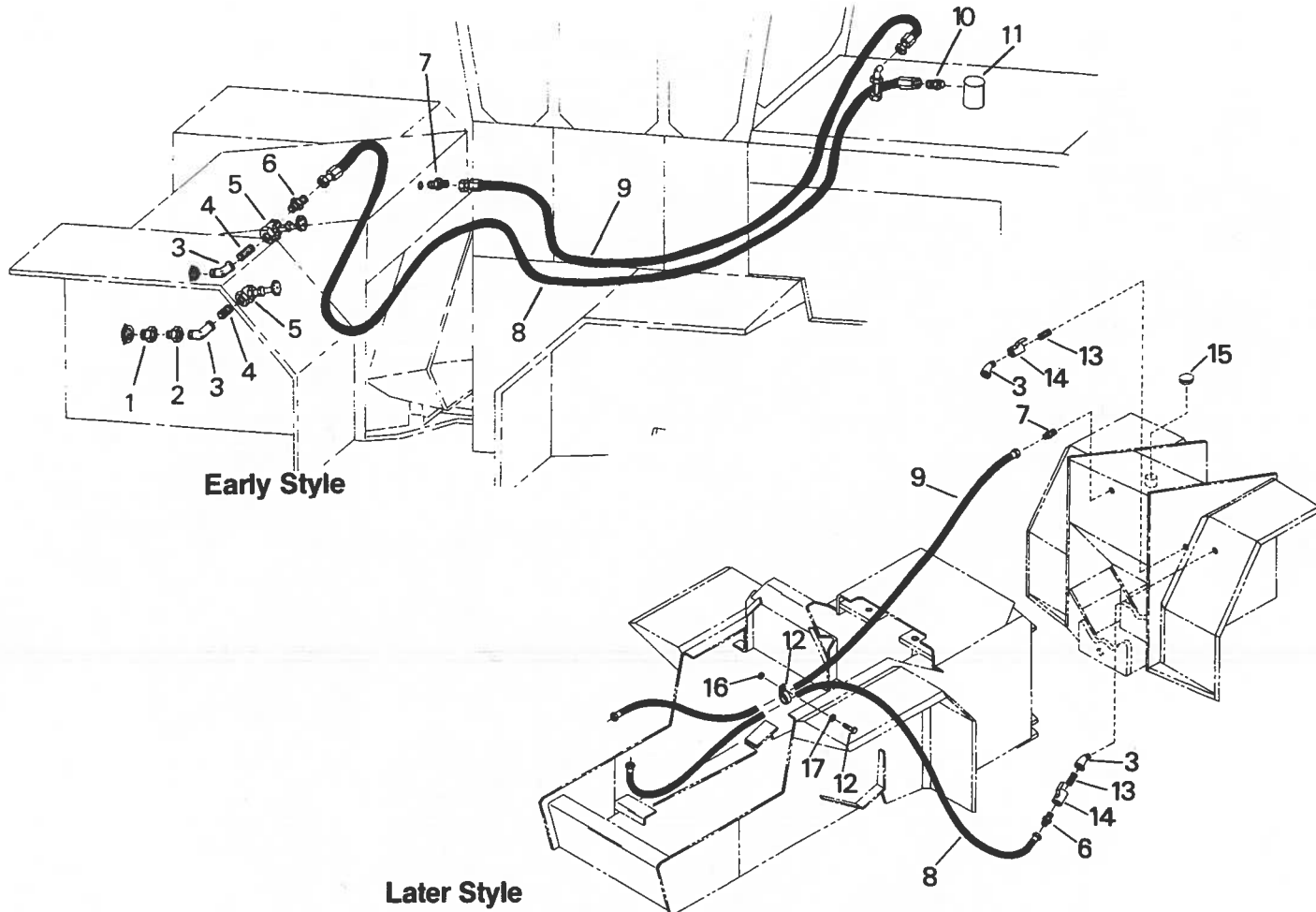
NOTE: Water Separator Kit P/N 35-1166 used to convert early models not factory equipped with water separators to the fuel system shown on the preceding page.

NOTE: Not used on DIT & DITA engines on later tractors.

Water Separator & Mounting - 3306 Engine

Ref.	Part No.	Description	Qty.
1	19-007	Capscrew, 5/16 NC x 1	4
2	19-077	Nut, 5/16 NC	2
3	31-159	Drain Cock	2
4	31-535	Plug	1
5	444054	Fitting	2

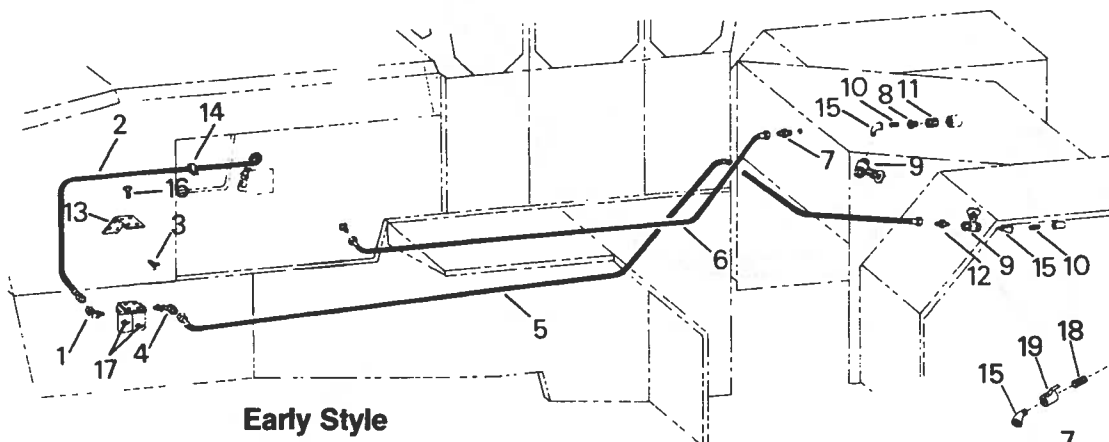
Ref.	Part No.	Description	Qty.
6	01-9574	Bracket	1
7	01-9775	Clamp	1
8	01-9774	Element, Water Separator	1
9	01-9773	Base	1
10	19-700	Washer, 5/16	2



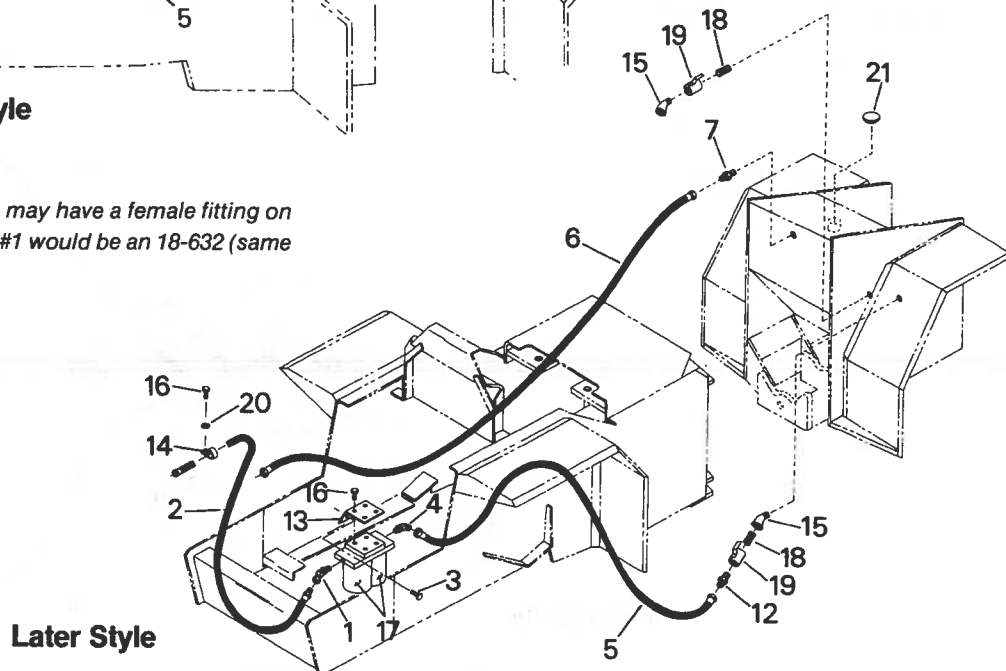
Fuel Systems

855 Cummins Engines

Ref.	Part No.	Description	Qty.	Ref.	Part No.	Description	Qty.
1	31-658	Reducer	1	10	18-570	Adapter	1
2	31-175	Reducer	1	11	28-035	Element, Fuel Filter	AR
3	31-210	Elbow	2	12	32-343	Clamp	1
4	31-199	Nipple	2	13	31-345	Nipple	2
5	31-059	Valve	2	14	31-1267	Valve	2
6	31-449	Adapter	1	15	01-4853	Fuel Cap	1
7	31-363	Adapter	1	16	19-087	Lock Nut, 3/8 NC	1
8	32-305	Hose, Suction (BSN 2000)	1	17	19-107	Washer, 3/8	1
	31-1952	Hose, Suction (ASN 2000)		18	19-019	Capscrew, 3/8 NC x 1-1/2	1
9	32-304	Hose, Return (BSN 2000)	1				
	31-1949	Hose, Return (ASN 2000)					



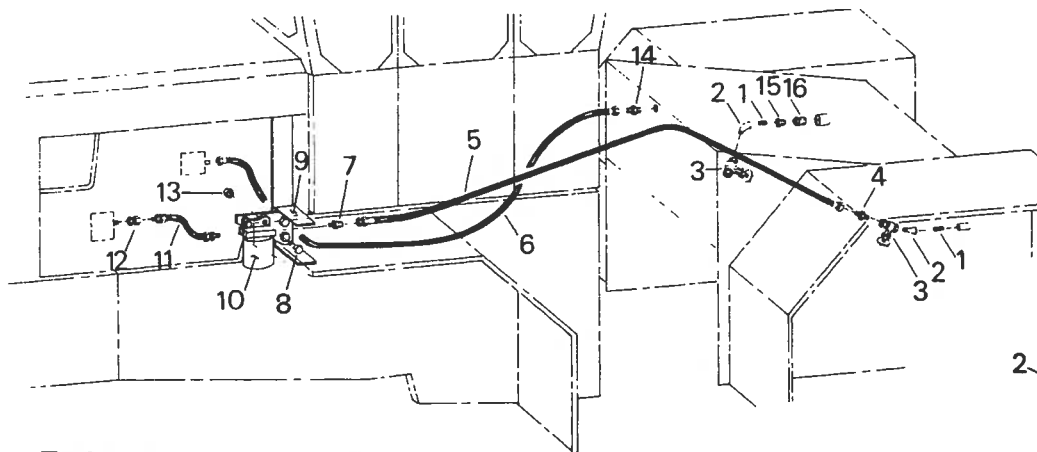
NOTE: On some tractors, item 2 may have a female fitting on the filter end, in which case item #1 would be an 18-632 (same as 4).



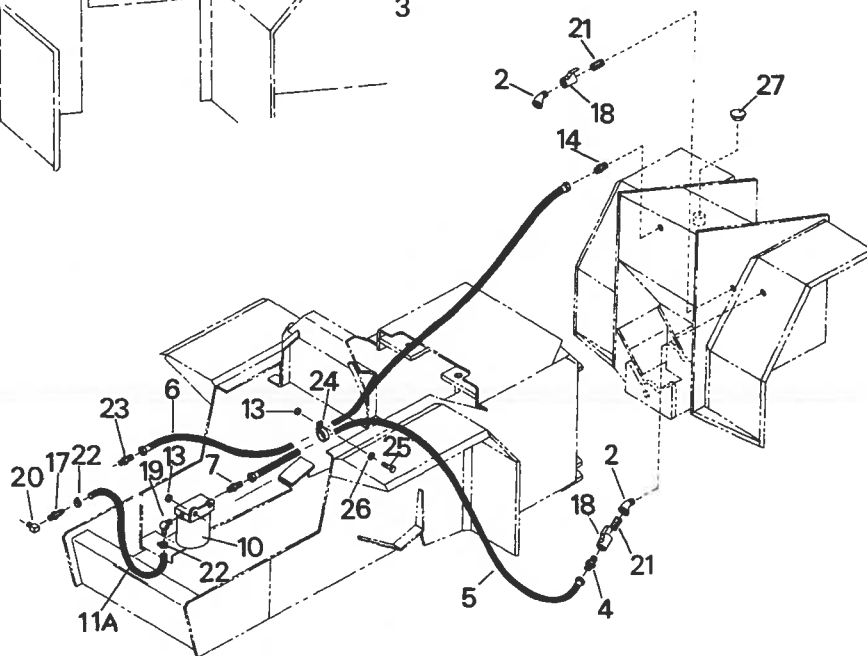
Fuel Systems

903 Cummins Engines

Ref.	Part No.	Description	Qty.	Ref.	Part No.	Description	Qty.
1	31-543	Adapter (10)	1	11	31-658	Reducer	1
2	35-1290T91	Hose Kit	1	12	31-449	Adapter	1
3	19-018	Capscrew, 3/8 NC x 1-1/4	4	13	45-264	Bracket	1
4	18-632	Adapter (10)	1	14	32-302	Clamp	1
5	31-1266	Hose (BSN 2000)	1	15	31-210	Elbow	2
	31-1952	Hose (ASN 2000)	1	16	19-017	Capscrew, 3/8 NC x 1	AR
6	32-304	Hose (BSN 2000)	1	17	28-035	Element, Fuel Filter	AR
	31-1950	Hose (ASN 2000)	1	18	31-345	Nipple	2
7	31-363	Adapter	1	19	31-1267	Valve	2
8	31-175	Reducer	1	20	19-224	Washer, 3/8	1
9	31-059	Valve	2	21	01-4853	Fuel Cap	1
10	31-199	Nipple	2				



Early Style



Later Style

Fuel Systems

3406 Cat Engine

Ref.	Part No.	Description	Qty.
1	31-199	Nipple	2
2	31-210	Street Elbow	2
3	31-059	Valve	2
4	31-449	Connector	1
5	32-305	Hose (BSN 2000)	1
	31-1952	Hose (ASN 2000)	1
6	32-1021	Hose (BSN 2000)	1
	31-1951	Hose (ASN 2000)	1
7	31-319	Connector	1
	31-1304	Connector, 45° (ASN 2000)	1
8	19-018	Capscrew, 3/8 NC x 1-1/4	2
9	06-1602	Bracket	1
10	06-1601	Fuel Filter, Primary	1
	01-2336	Element, Fuel Filter	AR
11	32-1022	Hose Assembly (D)	1
11A	01-2621	Hose Assembly (D)	1

Ref.	Part No.	Description	Qty.
12	31-1003	Adapter	1
13	19-087	Nut, 3/8 NC Lock	2
14	31-363	Connector	1
15	31-175	Reducer	1
16	31-658	Reducer	1
17	31-137	Fitting	1
18	31-1267	Valve	2
19	01-2620	Fitting	1
20	31-208	Fitting	1
21	31-345	Nipple	2
22	32-059	Clamp	2
23	19-1102	Adapter	1
24	32-343	Clamp	1
25	19-019	Capscrew, 3/8 NC x 1-1/2	1
26	19-107	Washer, 3/8	1
27	01-4853	Fuel Cap	1

Section 8 - Hydraulics

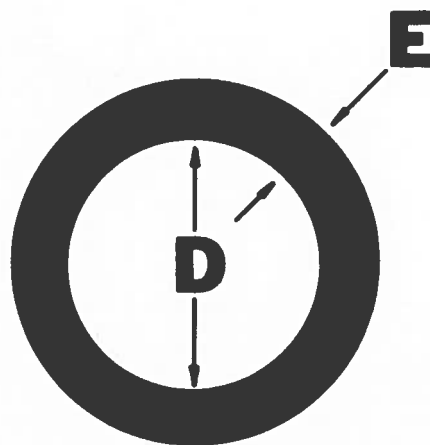
Description	Page
O-Rings	8-1
Hydraulic System (Less Pump & Mounting)	8-2 & 8-3
Hydraulic Reservoir	8-4
Hydraulic Pump Mountings	8-5
Hydraulic Pump (855 Cummins Engine)	8-6
Hydraulic Pump (903 Cummins Engine)	8-7
Hydraulic Pump (3306 Cat Engine)	8-8 & 8-9
Hydraulic Pump (3406 Cat Engine)	8-10 & 8-11
Relief Valve	8-12
Flow Divider & Priority Valve	8-13
Steering Control Valve	8-14
Steering Cylinder	8-15
Control Valve	8-16 to 8-18
Hydraulic Coupler	8-19 & 8-20

Section 8 - Hydraulics

Page	Old P/N	New P/N	Code	Model	SN Break
8-2	18-1532	01-1052	D	ST 220 ST 250 ST 270 ST 251 ST 310 ST 320 ST 325 ST 350	103-00086 to 103-00230 104-00048 to 104-00331 105-00087 to 105-00803 106-00020 to 106-00518 107-00095 to 107-00771 108-00063 to 108-00212 123-00001 to 123-00830 139-00001 to 139-00060 Models not shown were not yet in production.
8-2	01-1052	31-1539	D	ST 220 ST 250 ST 270 ST 251CP ST 310CP ST 320 ST 325 ST 350 ST 225 ST 280 ST 280	model discontinued 104-00331 to 104-02000 105-00804 to 105-02000 106-00519 to 106-02000 107-00772 to 107-02000 model discontinued 123-00831 to 123-02000 139-00061 to 139-02000 109-00001 to 109-02000 110-00001 to 110-02000 111-00001 to 111-02000
8-4	51-420	50-1368T1	D	ST 220 ST 225 ST 250 ST 270 ST 251CP ST 310CP ST 320 ST 350 ST 325 ST 280 ST 280	model discontinued 109-00333 104-00331 105-01024 106-01115 107-01119 model discontinued 139-00072 123-01174 110-00038 111-00001
8-8	18-1553	01-7079	B	ST 250 ST 270	104-00331 to 104-00331 105-00483 to unknown
8-8	01-7079	02-2625	B	ST 225 ST 250 ST 270	109-00001 to 109-00288 not used unknown to 105-01013
8-9	02-2625	50-1298T91	C	ST 225 ST 250 ST 270	109-00289 104-01001 105-01014
8-10	18-1741	01-7080	C	ST 325	123-00386

Page	Old P/N	New P/N	Code	Model	SN Break
8-13	18-1505 01-2391 01-2392	18-1505T91 01-2391T91 50-1289T91	E E E	ST 220	model discontinued
				ST 225	109-00190
				ST 250	104-01001
				ST 270	105-01000
				ST 251CP	106-01070
				ST 310CP	107-01083
				ST 320	model discontinued
				ST 350	139-00069
				ST 325	123-01135
				ST 280	110-00001
				ST 280	111-00001
8-14	18-1503	01-9556	D	ST 220	103-00230
				ST 250	104-00331
				ST 270	105-00586
				ST 251CP	106-00315
				ST 310CP	107-00541
				ST 320	108-00212
				ST 325	123-00543
				ST 350	139-00013
				ST 225	109-00001
				ST 280	110-00001
				ST 280	111-00001
8-16	01-2363T91 01-2364T91	01-2363T92 01-2364T92	B B	ST 220	model discontinued
				ST 225	109-00170 to 109-00401
				ST 250	104-00331 to 104-00331
				ST 270	105-01000 to 105-01030
				ST 251CP	106-01056 to 106-01138
				ST 310CP	107-01081 to 107-01149
				ST 320	model discontinued
				ST 325	123-01126 to 123-01205
				ST 350	139-00069 to 139-00071
				ST 280	110-00001 to 110-00071
8-16	None 01-2363T92 01-2364T92 18-1714 18-1903 18-1716 18-882 01-3549	50-1398T91 50-1396T91 50-1397T91 50-1977T91 50-1978T91 50-1979T91 50-1980T91 50-2038T91	B B B C D C C B	ST 220	model discontinued
				ST 225	109-00402
				ST 250	104-00331
				ST 270	105-01031
				ST 251CP	106-01139
				ST 310CP	107-01150
				ST 320	model discontinued
				ST 325	123-01206
				ST 350	139-00072
				ST 280	110-00072
8-20	01-7135	50-1347T91	B	ST 280	111-00001
				ST 280	

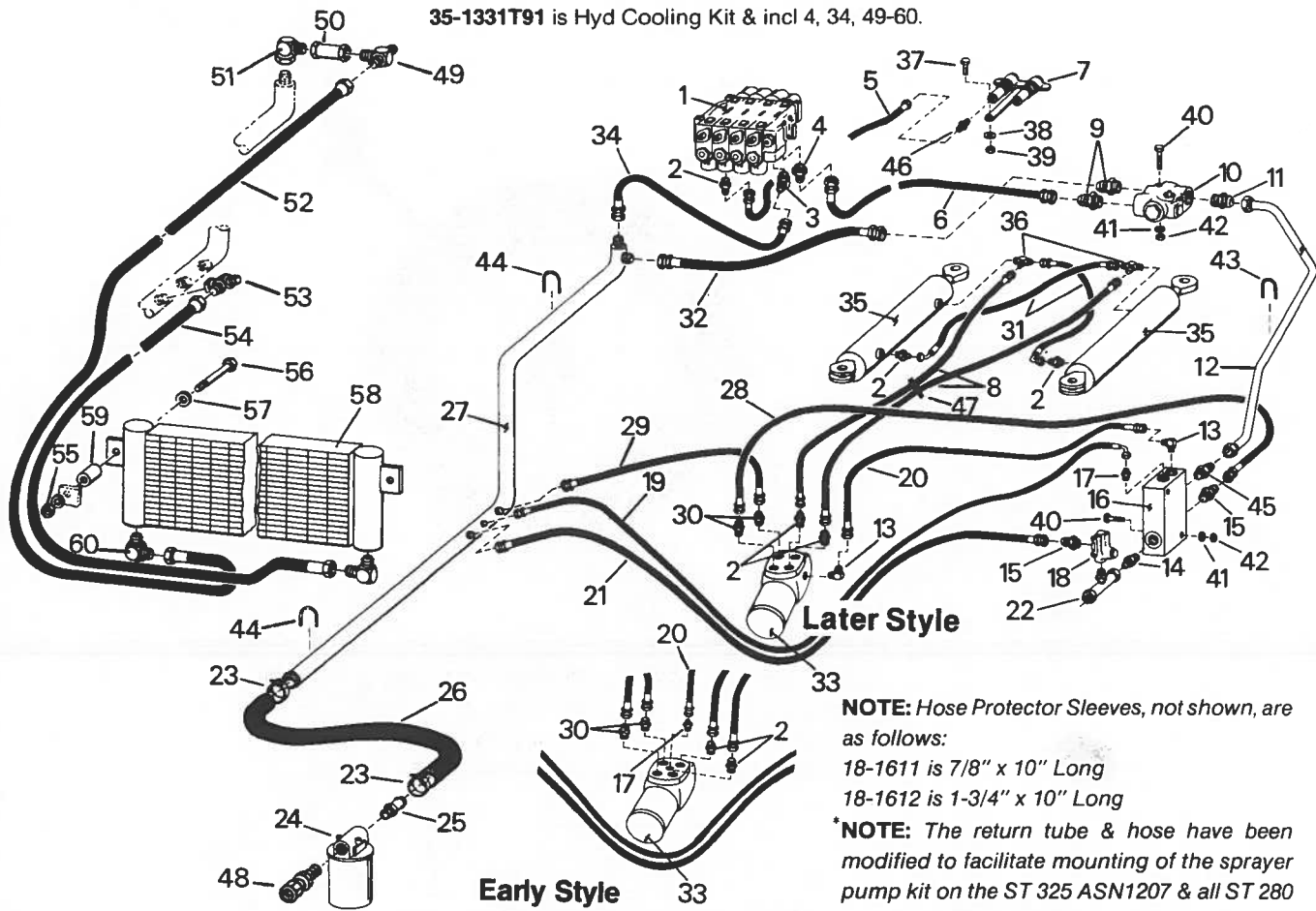
Page	Old P/N	New P/N	Code	Model	SN Break
8-19	18-1608	18-1760	B	ST 220 ST 250 ST 270 ST 251 ST 310 ST 320 ST 325	103-00086 to 103-00229 104-00048 to 104-00330 105-00087 to 105-000483 106-00020 to 106-00255 107-00095 to 107-00472 108-00063 to 108-00211 123-00001 to 123-00385
8-19	18-1760	01-8085	B	ST 220 ST 250 ST 270 ST 251 ST 310 ST 325 ST 350 ST 320 ST 225 ST 280 ST 280	model discontinued 104-00331 to 104-00331 105-00484 to 105-00803 106-00256 to 106-00518 107-00473 to 107-00771 123-00385 to 123-00831 139-00011 to 139-00060 model discontinued not yet in production not yet in production not yet in production
8-19 8-20	01-8085	01-7135	B	ST 220 ST 225 ST 270 ST 250 ST 251CP ST 310CP ST 320 ST 325 ST 350 ST 280 ST 280	model discontinued 109-00001 to 109-00401 105-00803 to 105-01030 104-00331 to 104-00331 106-00519 to 106-01138 107-00772 to 107-01149 model discontinued 123-00831 to 123-01205 139-00061 to 139-00071 110-00001 to 110-00071 111-not yet in production
8-20	01-7135	50-1347T91	B	all	see Page 8-B



NOTE: On various pages throughout this manual, there will be a number in parentheses behind some of the various elbows, adapters, etc. This number is the dash size of the O-Ring that is used with these fittings.

O-Rings

Dash Size	Tube O. D.	Steiger P/N	D	E
4	1/4	31-1019	.351	.072
5	5/16	31-1098	.414	.072
6	3/8	31-1099	.468	.078
8	1/2	31-1335	.644	.087
10	5/8	31-644	.755	.097
12	3/4	31-344	.924	.116
14	7/8	31-1100	1.048	.116
16	1	31-587	1.171	.116
20	1-1/4	31-1101	1.475	.118
24	1-1/2	31-611	1.720	.118
32	2	31-579	2.337	.118

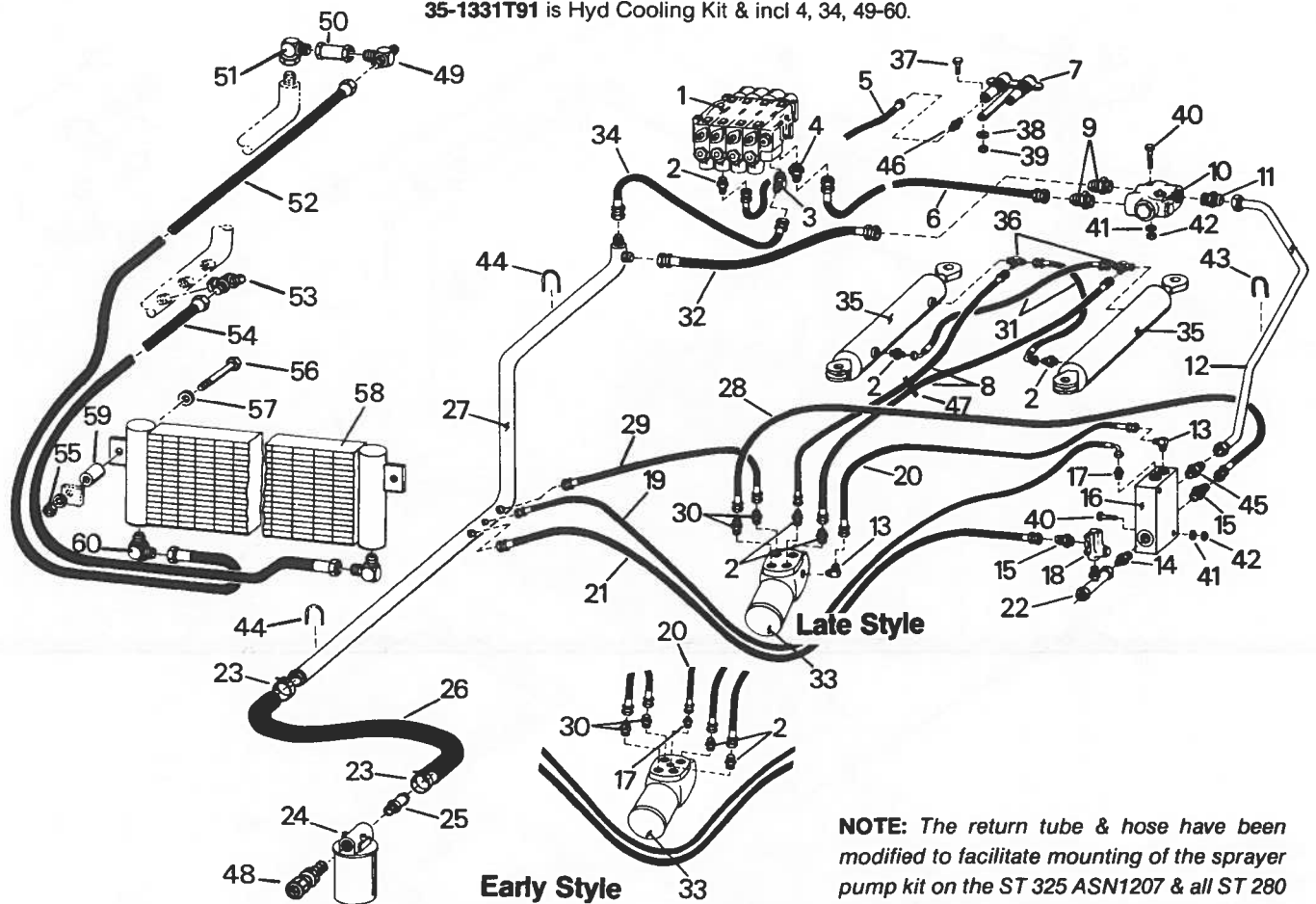


Hydraulic System (Less Pump & Mounting)

Ref.	Part No.	Description	Qty.
1		Control Valve (see Page 8-16)	1
2	31-329	Fitting (8)	12
3	31-366	Fitting (12) (w/o Cooler)	1
	18-783	Fitting (12) (w/Cooler) (same as #4)	1
4	18-783	Fitting (12)	1
5	18-1532	Hose (D) (use w/18-1608 Coupler) (1 Pipe thread encl)	AR
	01-1052	Hose (D) (use w/later Seymour Coupler) (1 male JIC End)	
	31-1539	Hose (D) use w/Pioneer Couplers (2 Female JIC End)	
	31-1948	Hose (use after S/N2000 w/stationary transfer case)	
6	31-1944	Hose (18-1534) (B)	1
7		Coupler (see Pages 8-19 & 20)	AR
8	31-1047	Hose (BSN2000)	2
	31-1953	Hose (ASN2000)	
9	31-610	Fitting (16)	2
10		Flow Divider (see Page 8-13)	1
11	31-369	Fitting (16)	1
12	18-1527	Pressure Tube	1
13	18-1538	Elbow (4)	2

Ref.	Part No.	Description	Qty.
14	31-368	Elbow (12) (ST 320 & 350)	1
	31-464	Fitting (12) (other models)	1
15	18-570	Fitting (10)	2
16		Priority Valve (see Page 8-13)	1
17	18-1539	Fitting (4)	2
18		Relief Valve (see Page 8-12)	1
19	18-1537	Hose	1
20	18-1536	Hose	1
21	18-1540	Hose	1
22	18-1541	Pressure Tube	1
23	01-1348	Clamp	2
24	18-497	Filter Assy	1
	18-498	Element	AR
	18-669	O-Ring (for above)	AR
25	18-1529	Fitting	1
26	01-4483	Return Hose (see Note) (15" used before Ref. 48 was added)	1
	31-2339	Return Hose (11" used after Ref. 48 was added)	
27	18-1528	Tube (all except below)	1
	50-1191T1	Tube (ST 325 ASN 1207 & all ST 280 Cat)*	1

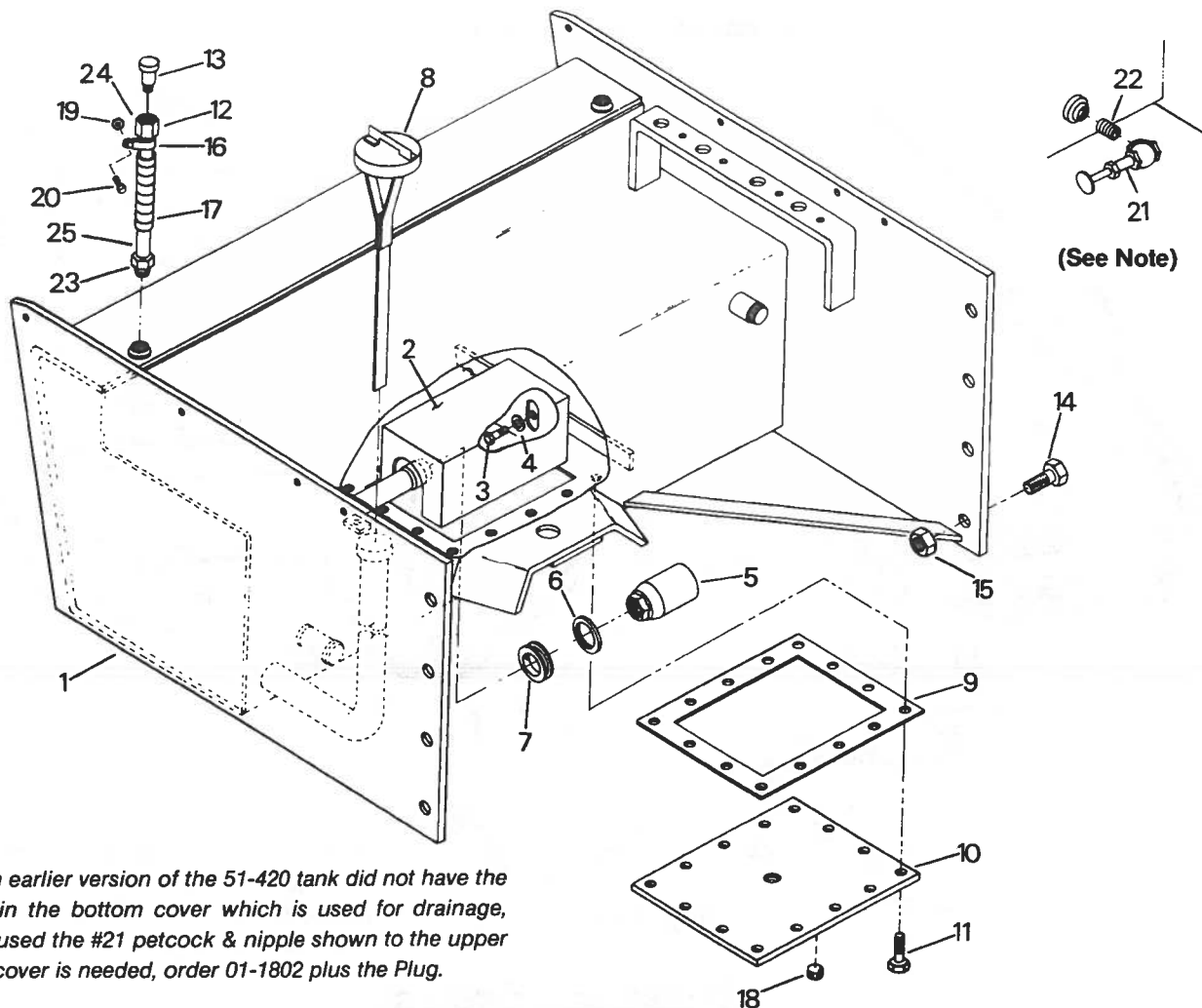
35-1331T91 is Hyd Cooling Kit & incl 4, 34, 49-60.



Hydraulic System (Less Pump & Mounting)

Ref.	Part No.	Description	Qty.
28	31-1044	Hose (32-207) (B)	1
29	31-1046	Hose (18-1530) (B)	1
30	31-462	Fitting (8)	2
31	18-1700	Hose	2
32	18-1535	Hose	1
33		Steering Control Valve (see Page 8-14)	1
34	18-1533	Hose (tractors w/o Cooler)	1
	31-1704	Hose (tractors w/Cooler)	1
35		Steering Cyls (see Page 8-15)	2
36	31-507	Tee (8)	2
37	19-045	Capscrew (w/Early Couplers)	2
	19-046	Capscrew (w/50-1347T91 Coupler)	
38	19-961	Washer (w/01-8085 Coupler)	8
39	19-082	Lock Nut	2
40	19-1007	Capscrew	4
41	19-700	Washer	4
42	19-508	Lock Nut	4

Ref.	Part No.	Description	Qty.
43	19-152	U-Bolt	1
44	19-154	U-Bolt	2
45	31-464	Fitting (12)	1
46	31-330	Fitting (w/Pioneer Couplers)	8
47	32-161	Clamp	2
48	31-1869	Adapter	1
49	31-1693	Adapter	1
50	50-1023T1	Check Valve	1
51	31-1477	Elbow	1
52	31-1694	Hose	1
53	31-495	Tee	1
54	31-1703	Hose	1
55	19-078	Nut	2
56	19-133	Capscrew	2
57	19-107	Washer	4
58	10-039	Cooler, oil	1
59	02-1981T1	Spacer	2
60	31-340	Adapter	2

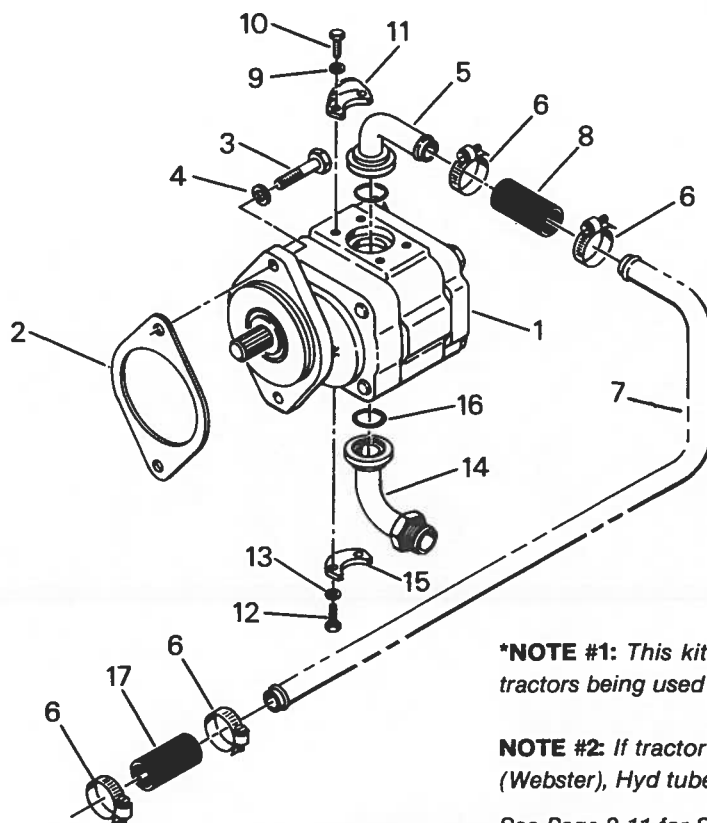


Hydraulic Reservoir

Ref.	Part No.	Description	Qty.
1	51-420	Hyd Tank (D) (see Note)	1
	50-1368T1	Hyd Tank (D)	
2	51-428	Sump Box	1
3	19-016	Capscrew	1
4	19-107	Washer	1
5	18-496	Suction Screen	1
6	19-953	Lock Nut	1
7	32-327	Grommet	1
8	51-431	Dipstick	1
9	51-433	Gasket	1
10	01-1802	Filter Cover (51-423) (C) (see Note)	1
11	19-017	Capscrew	14

Ref.	Part No.	Description	Qty.
12	18-1588	Vent Hose (Early Version w/crimped on ends) (B) (Service w/31-2166)	2
	31-2166	Vent Hose (Later Version w/reusable ends) (incl Refs 23-25)	2
13	31-303	Breather	2
14	19-187	Capscrew	8
15	19-097	Nut	8
16	01-2554	Clamp	2
17	18-1697	Sleeve, Plastic Coil (used w/18-1588 hose only)	2
18	31-081	Plug, Pipe	1
19	19-481	Nut	2
20	19-572	Machine Screw	2
21	31-670	Petcock (see Note)	1
22	31-172	Nipple	1
23	31-2195	Fitting (Male)	1
24	31-2196	Fitting (Female)	1
25	31-2193	Hose w/o Ends	1

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***NOTE #1:** This kit is to be used as a field replacement for tractors being used in severe duty situations.

NOTE #2: If tractor is equipped with 01-7080T91 Hyd Pump (Webster), Hyd tube 50-1076T1 must be ordered separately.

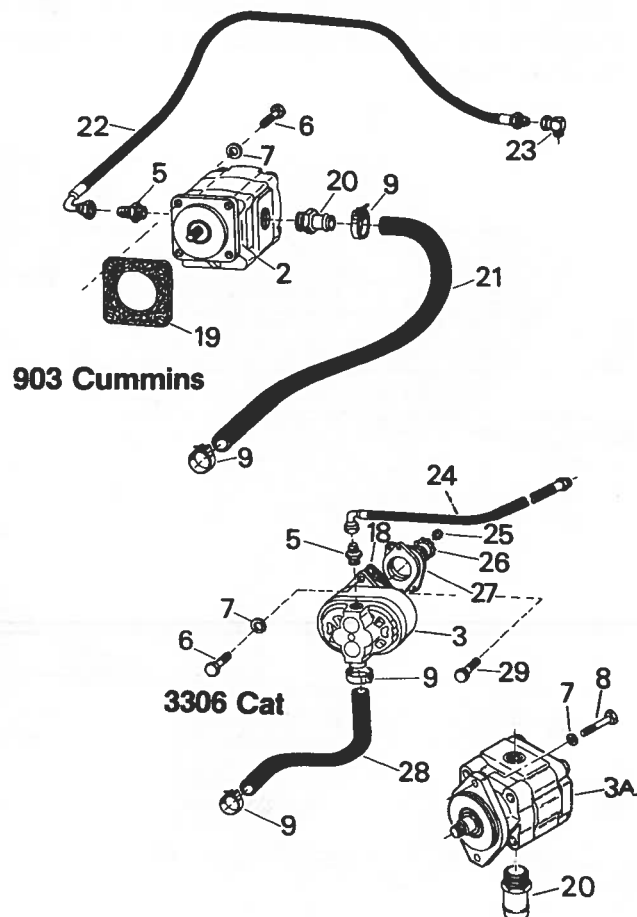
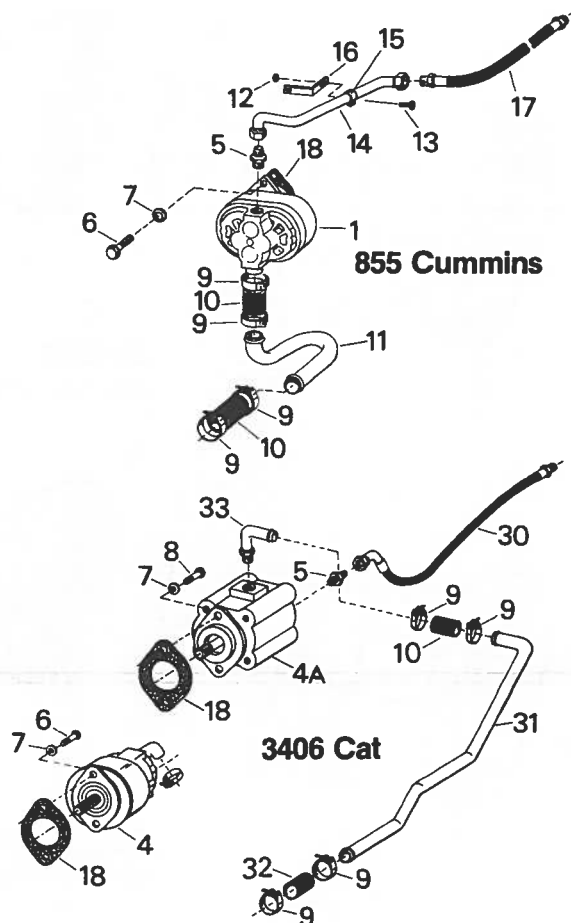
See Page 8-11 for Service Parts for Hyd Pump.

35-1379T91 Hydraulic Pump Kit - Heavy Duty*

Cat 3406

Ref.	Part No.	Description	Qty.
1	50-1852T91	Hyd Pump, HD	1
2	18-1176	Gasket	1
3	19-941	Capscrew	2
4	19-5603	Washer, Hardened	2
5	31-2034	Adapter	1
6	31-1283	Clamp	4
7		See Note #2	
8	01-6220	Hose	2
9	19-119	Lock Washer	4

Ref.	Part No.	Description	Qty.
10	19-045	Capscrew	4
11	31-1911	Flange Half, Split	2
12	19-018	Capscrew	4
13	19-117	Lock Washer	4
14	31-2035	Adapter	1
15	01-3526	Flange Half, Split	2
16	31-1097	O-Ring	1
17	31-1328	O-Ring	1



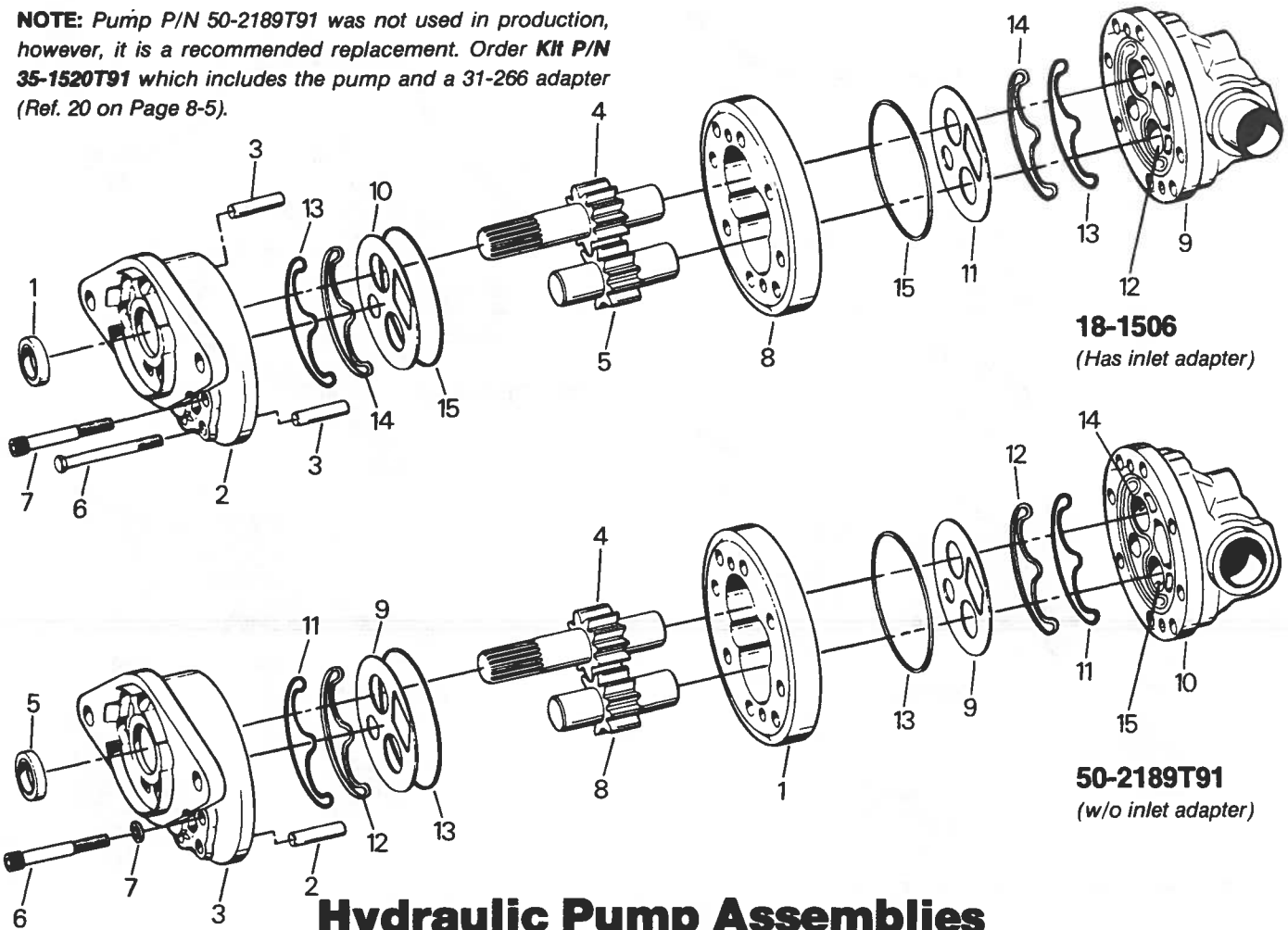
NOTE: See following pages for pump parts.

Hydraulic Pumps & Attaching Parts

Ref.	Part No.	Description	Qty.
1		Hyd Pump, 855 Cummins (see Page 8-6)	1
2	18-1629	Hyd Pump, 903 Cummins	1
3		Hyd Pump, 3306 Cat (Early) (see Page 8-8)	1
3A	50-1298T91	Hyd Pump, 3306 Cat (Later)	1
4		Hyd Pump, 3406 Cat (Early) (see Page 8-10)	1
4A	50-1075T1	Hyd Pump, 3406 Cat (Later)	1
5	31-369	Adapter (16)	1
6	19-821	Capscrew, 1/2 NC x 1-1/4	AR
7	19-5603	Washer	AR
8	19-941	Capscrew, 1/2 NC x 1-1/2	AR
9	31-1283	Clamp (01-1348) (B)	AR
10	01-4571	Hose	AR
11	18-1522	Tube, Suction	1
12	19-076	Nut	1
13	19-001	Capscrew, 1/4 NC x 3/4	1
14	18-1628T1	Tube, Pressure (18-1628) (B)	1
15	32-161	Clamp	1
16	18-1523	Bracket	1

Ref.	Part No.	Description	Qty.
17	18-1524	Hose	1
18	18-1176	Gasket	1
19	18-1307	Gasket	1
20	31-266	Adapter (20)	1
21	31-1496	Hose	1
22	18-1627	Hose	1
23	18-1630	Adapter	1
24	18-1554	Hose	1
25	19-261	Nut, 7/8 NF	1
26	06-1491T1	Gear	1
27	18-955T1	Adapter	1
28	32-158	Hose	1
29	19-822	Capscrew, 5/8 NC x 1-1/2	2
30	18-1745	Hose	1
31	01-9762	Tube (w/#4 Pump) (this tube will repl Hose on earlier tractors but must order 9, 10 & 32)	1
	50-1076T1	Tube (use w/#4A Pump)	1
32	01-6220	Hose	1
33	31-1394	Adapter (use w/4A Pump only)	1

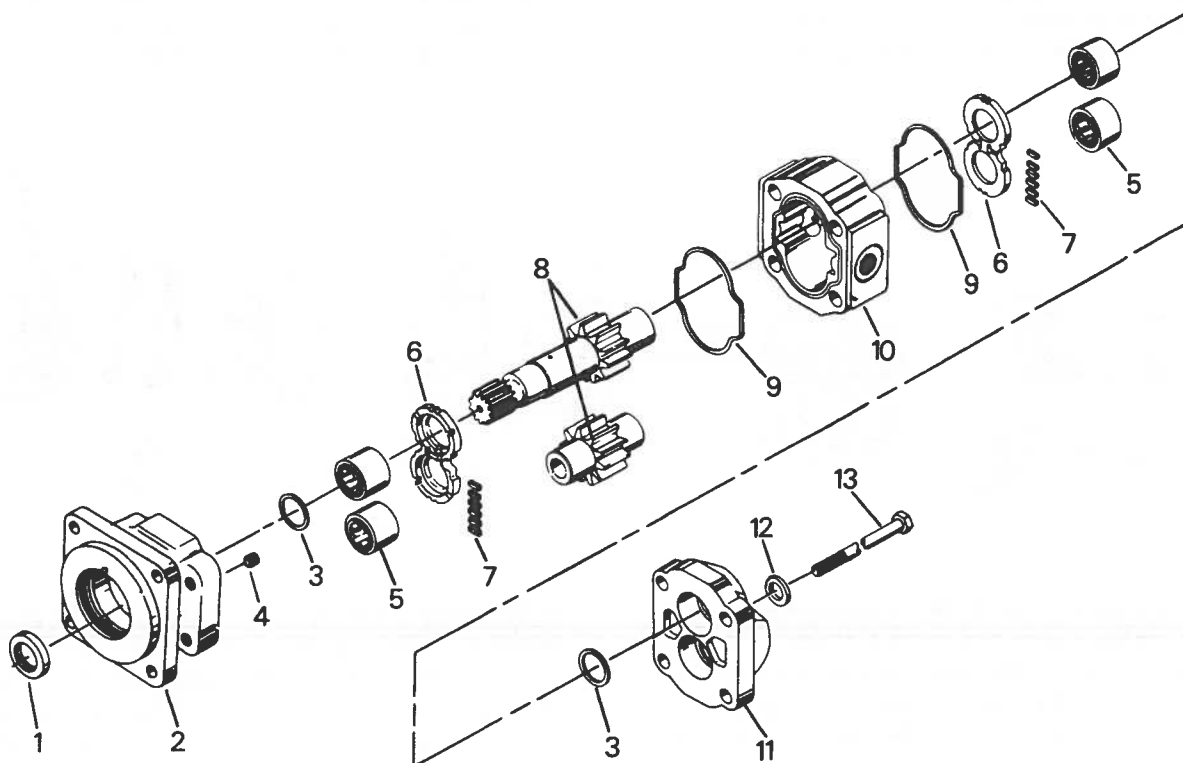
NOTE: Pump P/N 50-2189T91 was not used in production, however, it is a recommended replacement. Order Kit P/N 35-1520T91 which includes the pump and a 31-266 adapter (Ref. 20 on Page 8-5).



Hydraulic Pump Assemblies (Cummins 855 Engine)

Ref.	Part No.	Description	Qty.
1-15	18-1506	Hydraulic Pump	1
	18-1379	Seal Kit (incl Refs. 1, 10 11 & 13-15)	AR
	01-9717	Seal Kit (incl Refs. 1 & 13-15)	AR
1	01-9487	Seal (incl in Kit P/N's 18-1379 & 01-9717 or sold separately)	1
2	18-1380	Body Assy (incl Ref. 12)	1
3	18-1259	Dowel Pin	2
4	18-1664	Drive Gear	1
5	18-1665	Idler Gear	1
6	19-023	Capscrew	6
7	19-1005	Socket Head Capscrew	2
8	01-9541	Gear Plate	1
9	18-1666	Body Assy (incl Ref. 12)	1
10	01-9710	Wear Plate (incl in Kit P/N 18-1379 or sold separately)	1
11	01-9709	Wear Plate (incl in Kit P/N 18-1379 or sold separately)	1
12	01-4196	Sleeve Bearing	4
13	NSS	Pre-Load Seal	2
14	NSS	Load Seal	2
15	NSS	Ring Seal	2

Ref.	Part No.	Description	Qty.
1-15	50-2189T91	Hydraulic Pump	1
	35-1122	Seal Kit (incl Refs. 5, 9 & 11-13)	AR
1	01-9541	Gear Plate	1
2	18-1259	Dowel Pin	2
3	50-2187T91	Body Assy (incl Refs. 14 & 15)	1
4	50-2185T1	Drive Gear	1
5	01-9400	Seal (incl in Kit P/N 35-1122 or sold separately)	1
6	19-1005	Socket Head Capscrew	8
7	19-306	Washer	8
8	50-2186T1	Idler Gear	1
9	01-9709	Wear Plate (incl in Kit P/N 35-1122 or sold separately)	2
10	50-2184T91	Cover Assy (incl Refs. 14 & 15)	1
11	NSS	Pre-Load Seal	2
12	NSS	Load Seal	2
13	NSS	Ring Seal	2
14	50-2188T1	Sleeve Bearing	2
15	01-9713	Sleeve Bearing	2



Hydraulic Pump

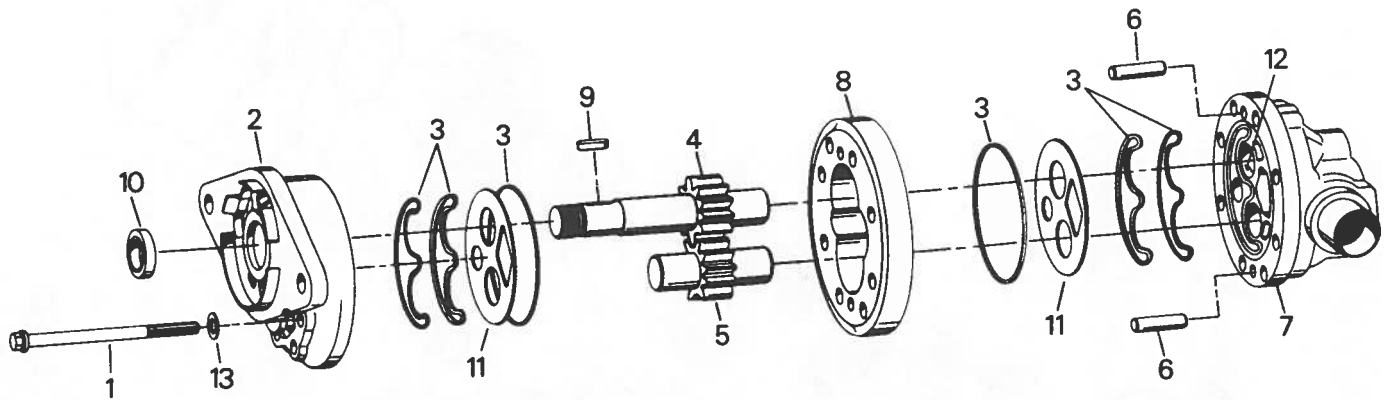
903 Engine

Ref.	Part No.	Description	Qty.
1-13	18-1629	Pump Assy	1
1	18-1573	Double Lip Seal	1
2	18-969	Shaft End Cover	1
3	18-771	Ring Seal	2
4	18-772	Plug	1
5	18-773	Roller Bearing	4
6	18-774	Thrust Plate	2

Ref.	Part No.	Description	Qty.
7	18-971	Pocket Seal Strip	2
8	18-1677	Drive Shaft & Gear Set	1
9	18-777	Gasket Seal	2
10	18-1676	Gear Housing	1
11	18-779	Port End Cover	1
12	19-488	Washer	4
13	19-763	Capscrew	4

- *Pump P/N 18-1553 (Vendor P/N 323KB13NX-R)
 **Pump P/N 01-7079 (Vendor P/N 323KB13NX-10R)
 ***Pump P/N 02-2625 (Vendor P/N 323KB13NX-12R)

SPECIAL NOTE: If complete pump is needed, order Kit # 35-1361T1 which includes the 50-1298T91 Pump, shown on following Page, & a 31-266 fitting. Two 19-941 Mt. Bolts should also be ordered.



NOTE: Body Assembly P/N 18-1667 is no longer available and should be replaced with P/N 01-7118 (Code E) which is directly interchangeable. This later style body assembly uses a new Seal (P/N 01-9400) which is included in Minor Repair Kit P/N 35-1122. Minor Repair Kit P/N 18-1668 can only be used with early style Body Assembly P/N 18-1667.

NOTE: Body Assembly P/N's 18-1673 and 01-9542 are no longer available and should be replaced with P/N 50-1020 (Code E) which is directly interchangeable. If this change and the other recommended changes (other Note & Ref. 8) are made, the pump assembly will be upgraded to the latest version (P/N 02-2625).

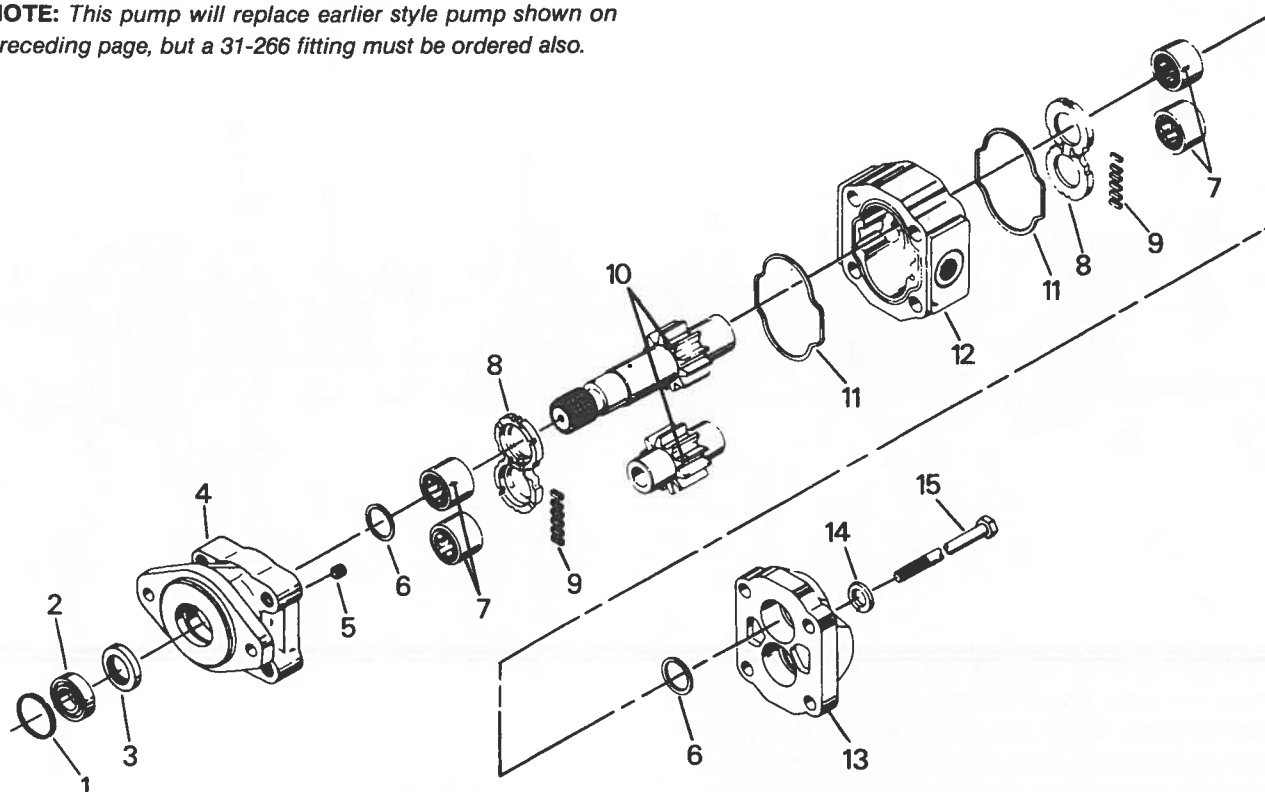
Hydraulic Pump (Early Usage)

3306 Cat Engine

Ref.	Part No.	Description	Qty.
1-9	18-1553	Pump Assy (B)	1
1-12	01-7079	Pump Assy (B)	
1-13	02-2625	Pump Assy (B)	
1	19-1057	Bolt, 3/8 NC x 3-1/4	8
	19-1056	Bolt, 3/8 NC x 3-1/2	
2	18-1667	Body Assembly* (see Note)	1
	01-7118	Body Assembly**-*** (incl 10)	
3	18-1668	Minor Repair Kit*	AR
	35-1122	Minor Repair Kit **-*** (incl 11)	
4	18-1669	Drive Shaft & Gear Assy	1
5	18-1670	Idler Shaft & Gear Assy	1
6	18-1671	Dowel Pin	2
7	18-1673	Body Assy* (see Note)	1
	01-9542	Body Assy** (see Note)	
	50-1020	Body Assy***	

Ref.	Part No.	Description	Qty.
8	01-9543	Gear Plate (repl 18-1672) (E)	1
9	18-1674	Key	1
10	NSS	Seal* (in Kit 18-1668 only)	1
	01-9400	Seal**-*** (in Kit 35-1122 or sold separately)	
11	NSS	Wear Plate* (in Kit 18-1668 only)	2
	01-9709	Wear Plate**-***in Kit 35-1122 or sold separately)	
12	01-9713	Bearing, Sleeve**-***	4
13	19-306	Washer***	8

NOTE: This pump will replace earlier style pump shown on preceding page, but a 31-266 fitting must be ordered also.

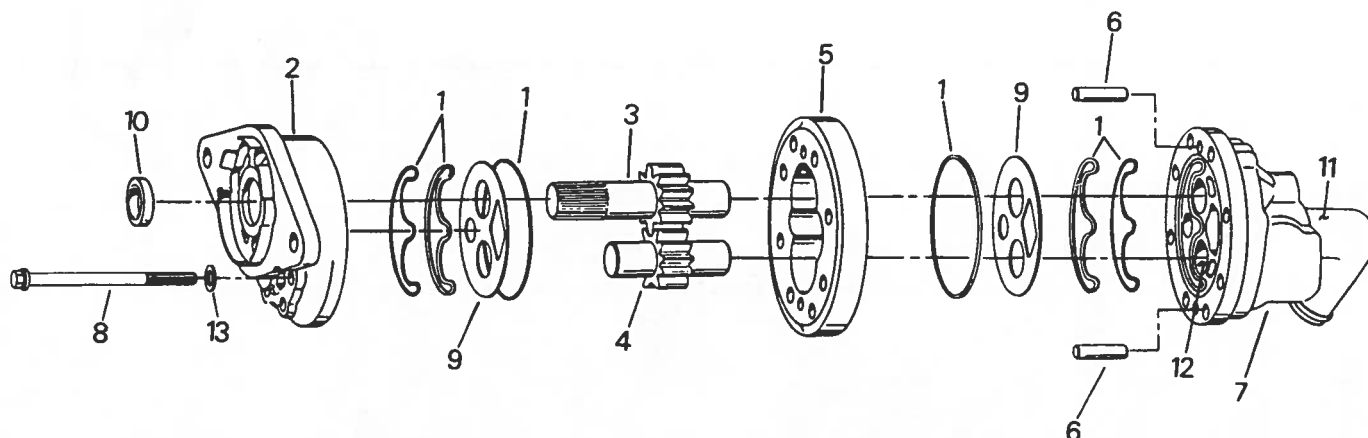


Hydraulic Pump (Later Usage)

3306 Cat Engine

Ref.	Part No.	Description	Qty.
1-16	50-1298T91	Pump Assy (C)	1
1	18-968	Snap Ring	1
2	18-970	Ball Bearing	1
3	18-1573	Double Lip Seal	1
4	18-1468	Shaft End Cover	1
5	18-772	Plug	2
6	18-771	Ring Seal	2
7	18-773	Roller Bearing	4
8	18-774	Thrust Plate	2

Ref.	Part No.	Description	Qty.
9	02-3433T1	Pocket Seal	12
10	02-4363T1	Drive Shaft & Gear Set	1
11	18-777	Gasket Seal	2
12	02-4364T1	Gear Housing	1
13	18-978	Port End Cover	1
14	19-488	Washer	4
15	19-209	Capscrew	4
16	02-4362T1	Key (not shown)	1



NOTE: This pump has 2 versions, the only real difference being in the front body assy which was changed to accept a better seal (01-9400). To correctly identify which pump you have, check the Part # on top of the front Body, *388KB36AX-L is early style & (***)388KB36AX-10L is later. This is necessary to determine which Minor Repair Kit is needed. All other parts can be replaced by the later style. If the later front body is used, it will update the early pump to the later style.

NOTE: If a complete pump is needed, order Kit #35-1262T91 which includes the 50-1075T91 Pump shown on following page, plus a 31-1394 fitting & a 50-1076T1 Tube.

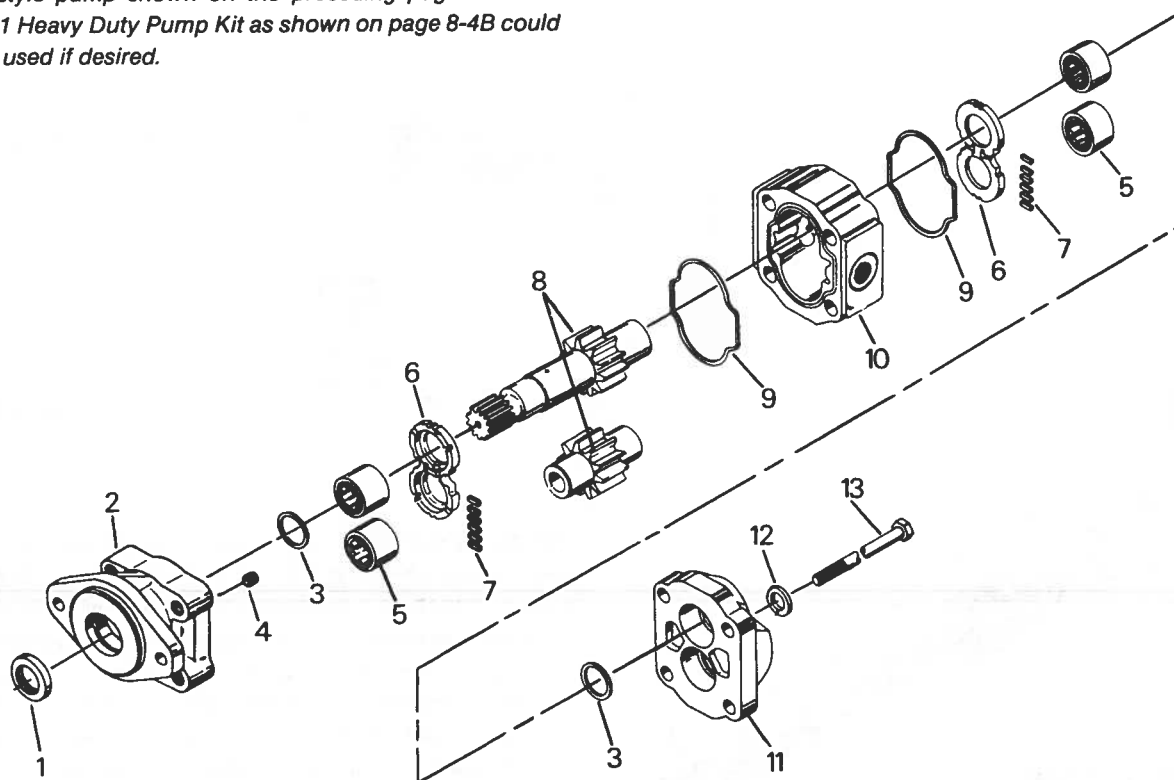
Hydraulic Pump (Early Usage)

(ST 325 BSN 800 only)

Ref.	Part No.	Description	Qty.
1-12	18-1741	Pump* (early) (see Note) (B)	1
	01-7080T91	Pump** (later) (see Note) (B)	
1	18-1668	Minor Repair Kit* (incl 9 & 10)	1
	35-1122	Minor Repair Kit** (incl 9 & 10)	
2	18-1754	Body* (use 01-7119T1)	1
	01-7119T1	Body** (incl 10 & 12)	
3	18-1756	Drive Shaft & Gear Assy	1
4	18-1757	Idler Shaft & Gear Assy	1
5	18-1758	Gear Plate	1
6	18-1755	Dowel Pin	2

Ref.	Part No.	Description	Qty.
7	50-1185T91	Cover Assy (incl #11) (Repl 18-1759) (E)	1
8	19-1056	Bolt*	8
	19-1057	Bolt**	8
9	01-9709	Wear Plate	2
10	01-9400	Seal** (seal for early style is not available separately)	1
11	50-1186T1	Tube, Inlet**	1
12	01-9713	Sleeve, Bearing	4
13	19-306	Washer	8

NOTE: Kit #35-1262T91, which includes the 50-1075T91 pump plus a 31-1394 fitting and a 50-1076T1 tube will replace the earlier style pump shown on the preceding page. The 35-1379T91 Heavy Duty Pump Kit as shown on page 8-4B could also be used if desired.



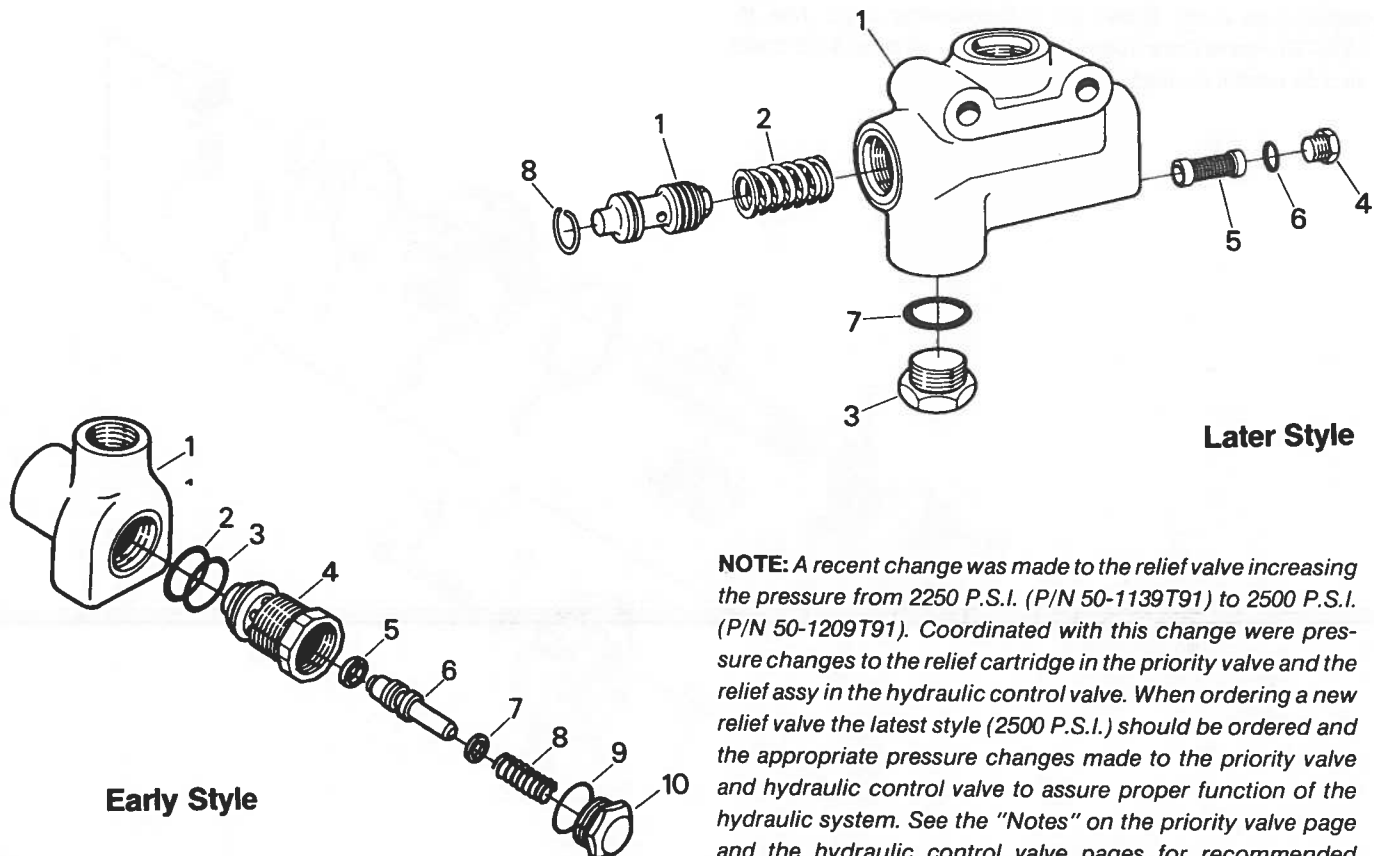
Hydraulic Pump (Later Usage)

ST 325 ASN 800 & All ST 280 (Cat)

Ref.	Part No.	Description	Qty.
1-13	50-1075T91	Pump Assy (Standard)	1
1	18-1573	Double Lip Seal	1
2	18-1468	Shaft End Cover	1
3	18-771	Ring Seal	2
4	18-772	Plug	1
5	18-773	Roller Bearing	4
6	18-774	Thrust Plate	2
7	02-3433T1	Pocket Seal Strip	2
8	02-3434T1	Drive Shaft & Gear Set	1
9	18-777	Gasket Seal	2
10	02-3435T1	Gear Housing	1
11	NSS	Port End Cover	1
12	19-488	Washer	4
13	19-764	Capscrew	4

Ref.	Part No.	Description	Qty.
1-13	50-1852T91	Pump Assy (Heavy Duty)	1
1	50-1838T1	Double Lip Seal	1
2	50-1836T1	Shaft End Cover	1
3	50-1846T1	Ring Seal	2
4	50-1828T1	Plug	1
5	50-1837T1	Roller Bearing	4
6	50-1843T1	Thrust Plate	2
7	50-1958T1	Pocket Seal	12
8	50-1854T1	Drive Shaft & Gear Set	1
9	50-1957T1	Gasket Seal	2
10	50-1853T91	Gear Housing (incl 6, 7 & 9)	1
11	50-1841T91	Port End Cover	1
12	50-1834T1	Washer	4
13	50-1845T1	Capscrew	4

NOTE: The Heavy Duty Pump would appear on tractors only as a field replacement or as a special order. This pump can be identified by the "P50" preceding the vendor model number on the Serial Number Tag or by the tapped bolt holes next to the inlet and outlet.

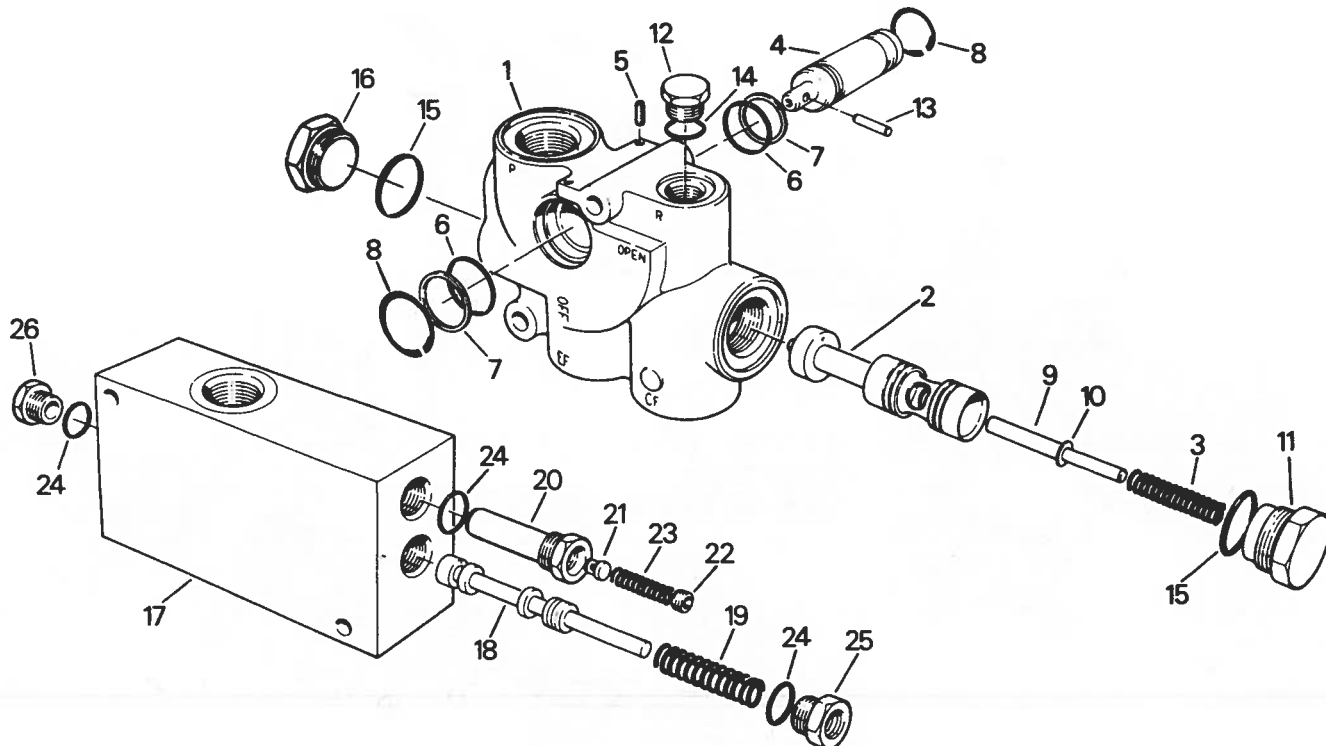


NOTE: A recent change was made to the relief valve increasing the pressure from 2250 P.S.I. (P/N 50-1139T91) to 2500 P.S.I. (P/N 50-1209T91). Coordinated with this change were pressure changes to the relief cartridge in the priority valve and the relief assy in the hydraulic control valve. When ordering a new relief valve the latest style (2500 P.S.I.) should be ordered and the appropriate pressure changes made to the priority valve and hydraulic control valve to assure proper function of the hydraulic system. See the "Notes" on the priority valve page and the hydraulic control valve pages for recommended changes to these items. See SN0064 (Feb. 15, 1981) for further details.

Relief Valves

Ref.	Part No.	Description	Qty.
Early Style			
1-10	18-1542	Relief Valve (Early Style) (service w/later style)	1
1	18-1586	Housing	1
2	18-1583	O-Ring	1
3	18-817	O-Ring	1
4	18-1587	Relief Body	1
5-6	18-1417	Relief Poppet & Seal Assy	1
7	NSS	Shim (.040)	AR
	NSS	Shim (.020)	AR
	18-1509	Shim (.010)	AR
8	01-4458	Spring	1
9	18-1582	O-Ring	1
10	18-923	Relief Cap	1

Ref.	Part No.	Description	Qty.
Later Style			
1-8	50-1209T91	Relief Valve (replaces P/N 18-1542 and P/N 50-1139T91 - Code E) (see Note)	1
1	50-1878T1	Control Valve Sub-Assy	1
2	50-1141T1	Spring	1
3	01-2198	Plug Assy (w/O-Ring)	1
4	31-1551	Plug Assy (w/O-Ring)	1
5	50-1143T1	Filter	1
6	31-1552	O-Ring	1
7	31-644	O-Ring	1
8	50-1142T1	Snap Ring	1

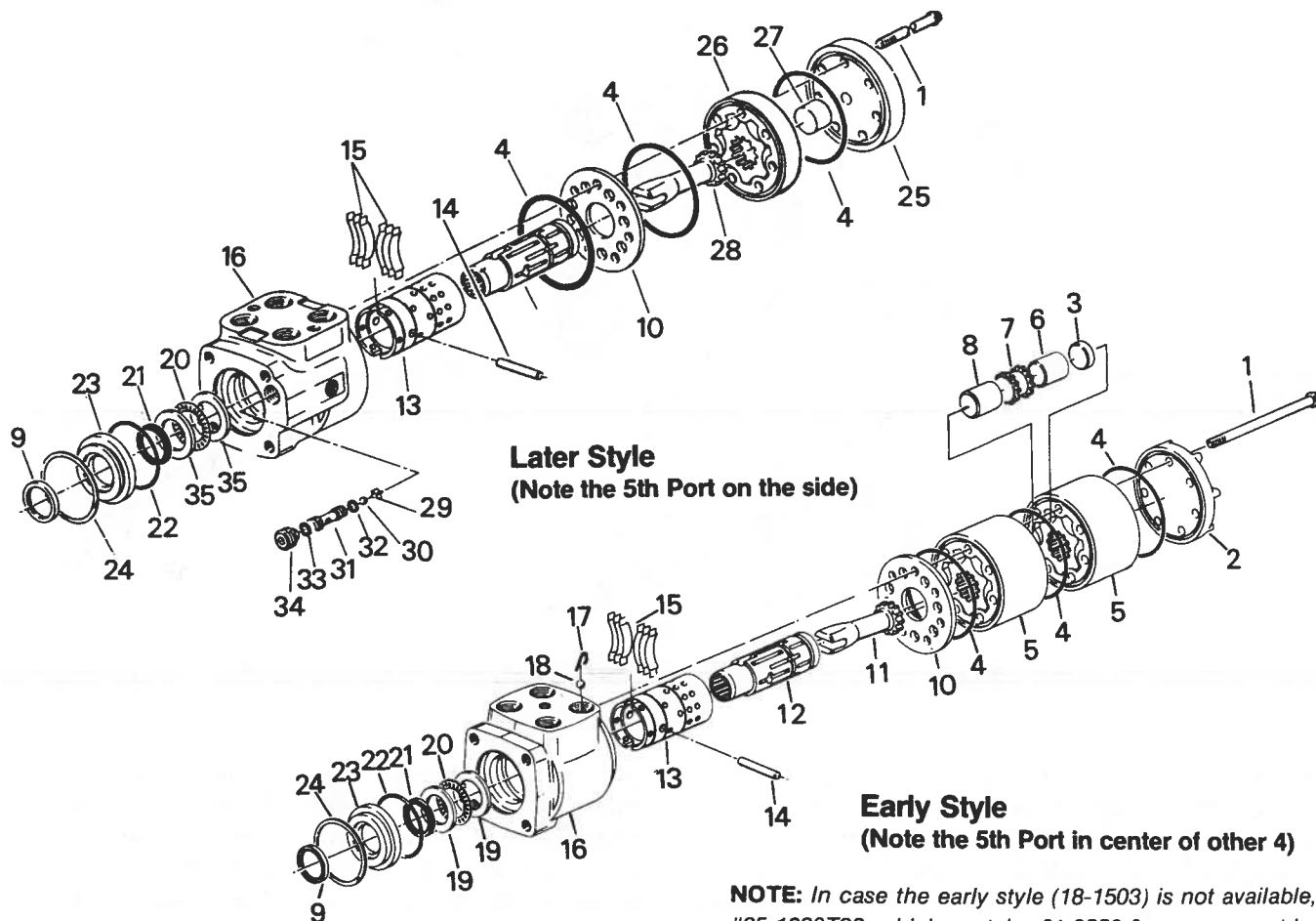


NOTE: A recent change was made to the relief cartridge increasing the pressure from 2000 psi (P/N 01-2392) to 2200 psi (P/N 50-1289T91). Coordinated with this change to the priority valve were pressure changes to the male relief valve on Page 8-12, and the relief assembly in the hydraulic control valve on Page 8-16. When ordering either a new priority valve or just the relief cartridge, the latest style (2200 psi) should be ordered and the appropriate pressure changes made to the main relief valve and hydraulic control valve to assure proper function of the hydraulic system. See the "Notes" on the relief valve page and the hydraulic control valve pages for recommended changes to these items. See SN0064 (Feb. 15, 1981) for further details.

Flow Divider & Priority Valve

Ref.	Part No.	Description	Qty.
1-15	18-1505T91	Flow Divider (18-1505) (E)	1
	35-1218T91	Seal Kit (incl. 6, 7, 14 & 15)	AR
1	NSS	Valve Body	1
2	18-1615	Piston	1
3	18-1616	Spring	1
4	18-1617	Valve Control	1
5	18-1618	Set Screw	1
8	31-1457	O-Ring	2
7	01-8180	Back-Up Ring	2
8	18-1621	Snap Ring	2
9	18-1622	Retaining Rod	1
10	18-1623	Washer	1
11	18-1624	Plug (w/O-Ring)	1
12	31-336	Plug (w/O-Ring)	1
13	456836	Roll Pin	1
14	31-1335	O-Ring	1
15	31-1100	O-Ring	2
16	02-4661T91	Plug (w/O-Ring) (see Note)	1

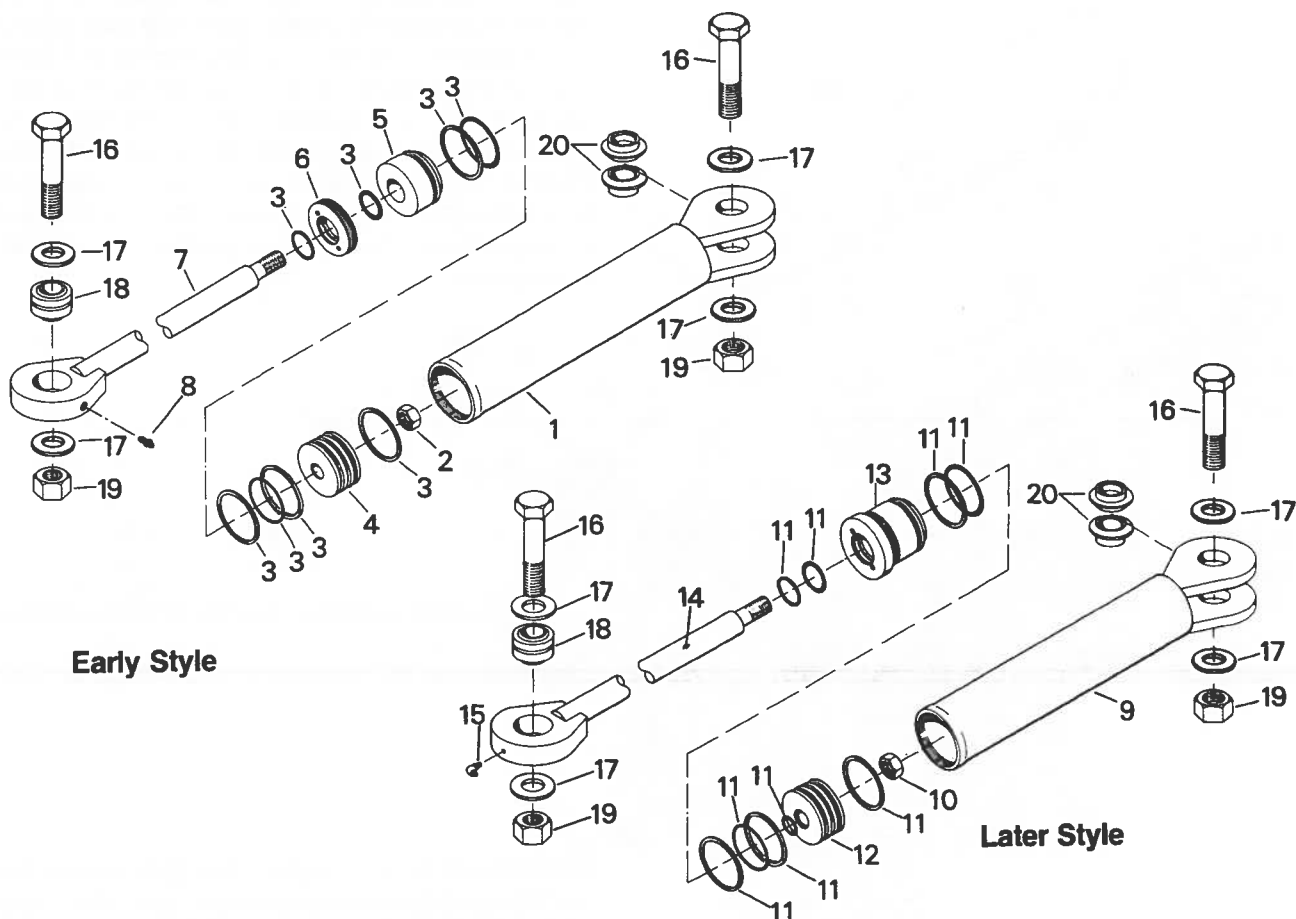
Ref.	Part No.	Description	Qty.
17-26	01-2391T91	Priority Valve (01-2391) (E) (see Note)	1
17	18-1600	Housing	1
18	18-1599	Spool	1
19	18-1598	Spring	3
20-24	50-1289T91	Relief Cartridge (01-2392) (E) (see Note)	1
20	NSS	Body	1
21	NSS	Poppet	1
22	NSS	Adjusting Screw	1
23	NSS	Spring	1
24	18-1592	O-Ring	3
25	18-1591	Plug, Spring Retainer	1
26	18-1590	Plug (w/O-Ring)	1



Steering Control Valves

Ref.	Part No.	Description	Qty.
	18-1503	Steering Control Valve (D) (Early)	1
	01-9556	Steering Control Valve (D) (Later)	
1	18-1734	Bolt	7
2	18-1678	Cap, End	1
3	18-1679	Plug, Gerotor	1
4	18-1680	O-Ring	3
5	18-1733	Gear Set	2
6	18-1735	Spacer	1
7	18-1683	Spline	1
8	18-1736	Spacer	1
9	18-137	Seal, Oil	1
10	18-1686	Plate, Spacer	1
11	18-1687	Drive	1
12-18	18-1688	Control Parts Assy, Early	1
12-16	02-2058	Control Parts Assy, Later	1
12	NSS	Spool, Control	1
13	NSS	Sleeve, Control	1
14	18-157	Pin	1
15	18-1689	Centering Spring	6
16	NSS	Housing	1

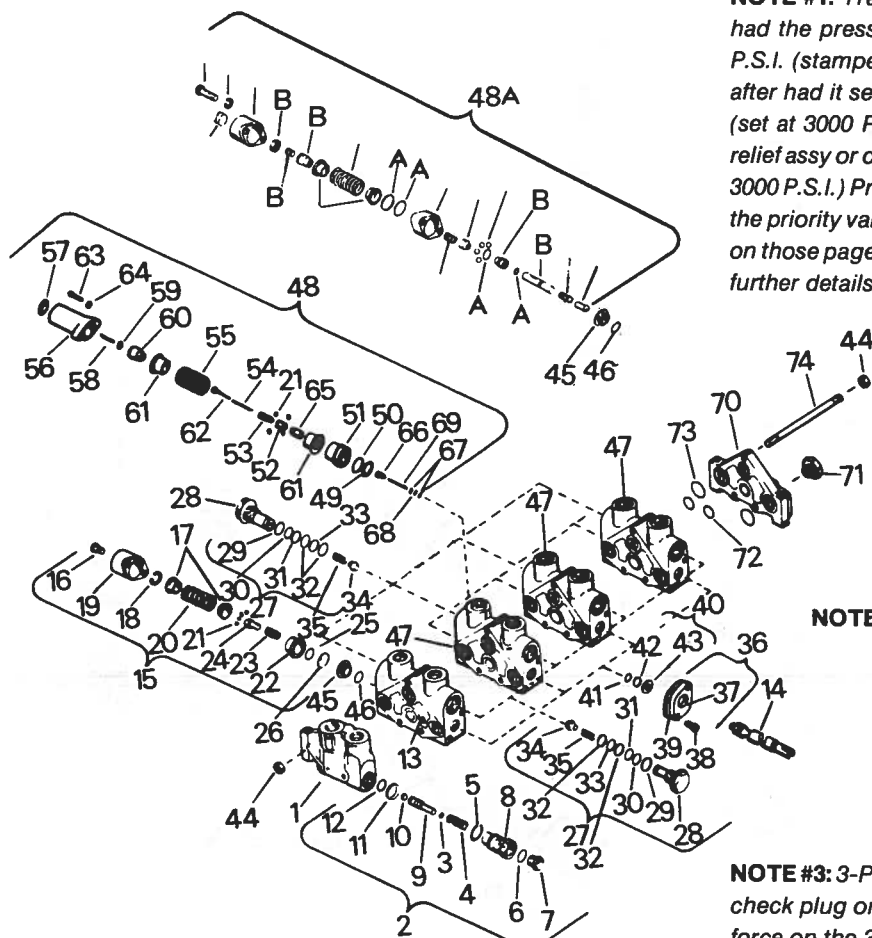
Ref.	Part No.	Description	Qty.
17	18-1690	Clip, Retainer	1
18	18-1691	Ball, Steel	1
19	18-1692	Race, Thrust	2
20	18-1693	Bearing, Needle Thrust	1
21	18-144	Seal, Quad Ring	1
22	18-1694	O-Ring	1
23	18-1695	Bushing, Seal Gland	1
24	18-1696	Snap Ring	1
25	02-2422	Cap, End	1
26	02-2055	Gear Set	1
27	02-2057	Spacer	1
28	18-128	Drive	1
29	02-2059	Retainer	1
30	02-2060	Ball, Check	
31	02-2061	Seat, Check Ball	1
32	18-150	Seal	1
33	02-2062	O-Ring	1
34	02-2063	Set Screw	1
35	02-2064	Race, Bearing	2



Steering Cylinders

Ref.	Part No.	Description	Qty.
Early Style			
1-8	18-1488	Cylinder Assy (use 01-7773)	
1	18-1491	Shell	1
2	19-098	Nut	1
3	18-1495T91	Seal Kit	1
4	18-1494	Piston	1
5	18-1492	Rod Guide	1
6	18-1493	Retaining Nut	1
7	18-1489	Rod (1-1/2" O D)	1
8	31-094	Zerk	1

Ref.	Part No.	Description	Qty.
Later Style			
9-15	01-7773	Cylinder	
9	01-7025	Shell	1
10	19-5578	Nut	1
11	35-1136T91	Seal Kit	1
12	01-7031	Piston (can also use 02-4066)	1
13	01-7772	Rod Guide	1
14	01-7769	Rod (1-3/4" O D)	1
15	31-093	Zerk	1
16	19-915	Capscrew	4
17	19-938	Washer	8
18	15-044	Bushing	1
19	19-916	Jam Nut	4
20	52-130	Bushing	2



NOTE #1: Tractors built between Apr. 79 (approx) & Jan. 81 had the pressure in the control valve relief assy set at 3000 P.S.I. (stamped on Relief Valve Cap), tractors built before & after had it set at 2250. It is recommended that those tractors (set at 3000 P.S.I.) be serviced w/the current 18-1703 (2250) relief assy or current valve (the 01-2363T91 & 01-2364T91 were 3000 P.S.I.) Pressures also changed in the main relief valve and the priority valve as shown on pages 8-12 & 8-13. See the notes on those pages & in Service News #SN0064 (Feb. 15, 1981) for further details.

NOTE #2: Quantities listed are for 4-Spool Valve only.

NOTE #3: 3-Pt. Relief Cartridge P/N 01-5974 replaces the load check plug on the control valve and is used to limit the down force on the 3-Pt. lift cylinders to 500 P.S.I.

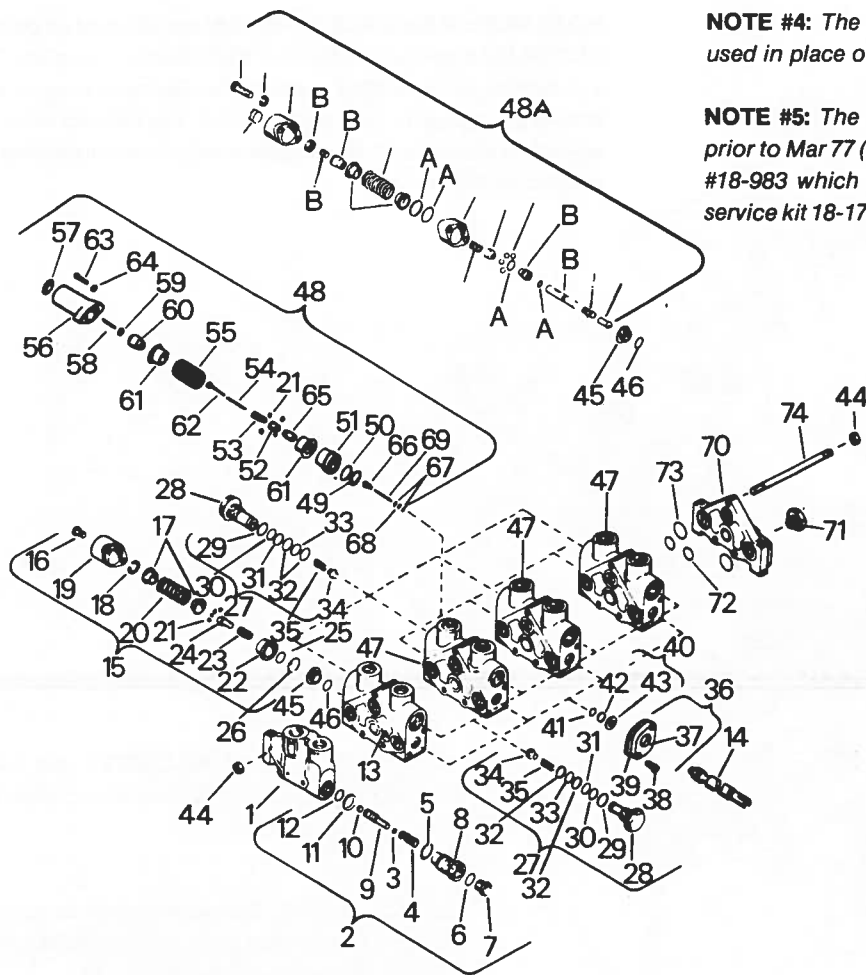
*Use in 50-1396T91, 50-1397T91 & 50-1398T91 only

Use in the above valves & can **also be used as a replacement for the Part No. directly above it.

Control Valve

Ref.	Part No.	Description	Qty.
	50-1398T91	Valve, 3 Spool	1
	50-1396T91	Valve, 4 Spool (01-2363T92, 01-2363T91, 01-2363 & 18-1543) (B)	
	50-1397T91	Valve, 5 Spool (01-2364T92, 01-2364T91, 01-2364 & 18-1625) (B)	
1	18-1714	Plate, Left Cover (incl Ref. 2) (B) (Casting No. 1862)	1
*	50-1977T91	Plate, Left Cover (incl Ref. 2) (B) (Casting No. 8398)	
2	18-1703	Relief Assy, 2250 psi (incl 3-12) (see Note #1)	1
*	50-1978T91	Relief Assy, 2250 psi (incl 3-12)	
3	18-1509	Shim (.010)	AR
4	NSS	Spring	1
5 & 6	NSS	O-Rings (Ref. 78)	1
7	NSS	Cap, Relief Spring	1
8	NSS	Body, Relief Valve	1
9-10	18-1417	Poppet & Seal Assy	1
11	NSS	Washer, BU (in Ref. 78)	1
12	NSS	Seal (in Ref. 78)	1

Ref.	Part No.	Description	Qty.
13	18-1716	Section, Float (incl Refs. 14, 15, 27, 36, 40 & 44-46) (B)	1
**	50-1979T91	(same as above) (B)	
14	NSS	Spool (in #13)	4
15	18-882	Positioner, Float (incl 16-26) (B)	1
**	50-1980T91	Positioner, Float (incl 16-26) (B)	
16	18-712	Screw	2
17	18-826	Collar	2
18	NSS	Ring, Retaining	1
19	NSS	Bonnet	1
20	NSS	spring, Centering	4
21	NSS	Ball, Detent	1
22	NSS	Sleeve, Detent	1
23	NSS	Spring, Detent	1
24	NSS	Follower, Detent Ball	1
25	NSS	Seal, Quad Ring (in Ref. 76 & 80A)	1
26	NSS	O-Ring (in Ref. 76 & 80A)	1
27	18-876	Plug, Load Check (incl 28-35) (see Note #3)	8
28	NSS	Plug, Lift Check	8
29	NSS	O-Ring (in Refs. 75, 76 & 79)	8
30	NSS	Washer, BU (in Refs. 75, 76 & 79)	8
31	NSS	O-Ring (in Refs. 75, 76 & 79)	8



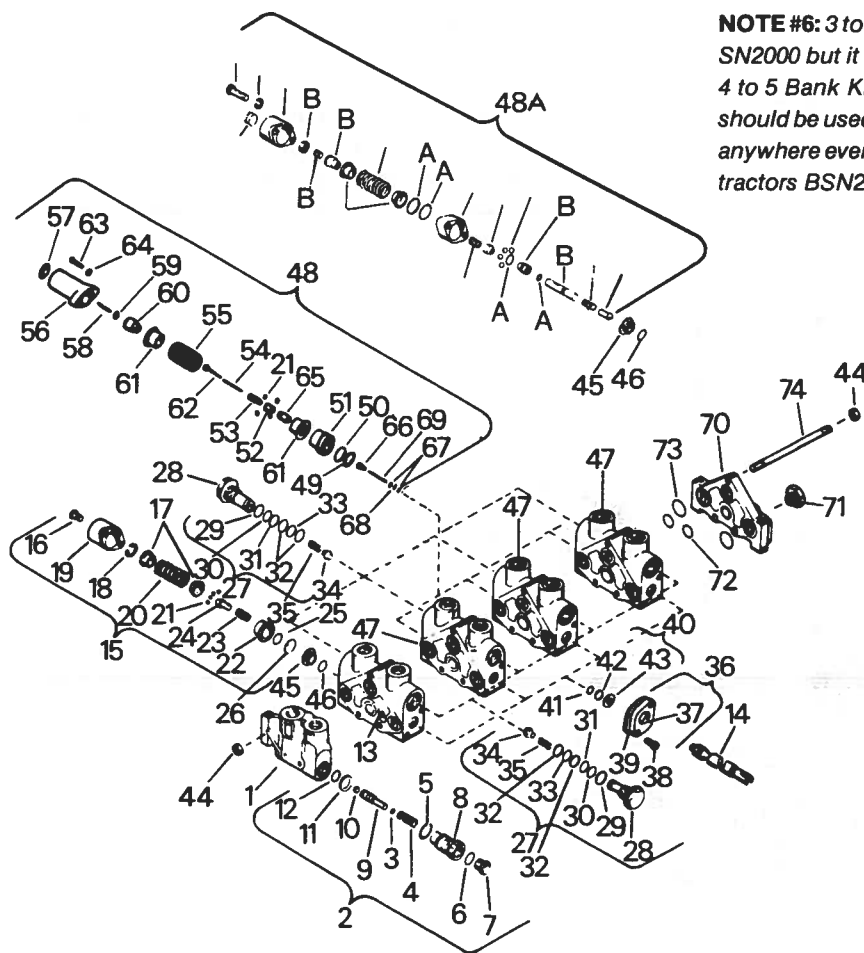
NOTE #4: The power beyond adapter is P/N 18-1134 and is used in place of Ref. 71.

NOTE #5: The "Wet" Detent Ref. 48A was used on tractors prior to Mar 77 (unless replaced). It can be serviced w/Seal Kit #18-983 which incl the 4 internal O-rings marked w/"A" or service kit 18-1748 which incl 18-983 plus items marked w/"B".

Control Valve

Ref.	Part No.	Description	Qty.
32	NSS	Washer, BU (in Refs. 75, 76 & 79)	16
33	NSS	O-Ring (in Refs. 75, 76 & 79)	8
34	NSS	Poppet, Lift Check	8
35	NSS	Spring, Lift Check	8
36-39	18-1704	Retainer, Spool Seal	4
38	18-1702	Screw & Lock Washer	8
40	18-878	Seal Kit (incl 41-43) (in Ref. 76)	4
41	NSS	Seal (in Refs. 40, 76, 79 & 80)	4
42	NSS	Washer, BU (in Refs. 40, 76, 79 & 80)	4
43	NSS	Retainer, Seal (in Refs. 40, 76 & 79)	4
44	18-909	Nut	6
45	18-895	Plate (before Mar 77 only)	3
46	NSS	O-Ring (in Ref. 76)	3
47	01-3524	Section, Detent (incl Ref. 14, 27, 36, 40 & 8) (see Ref. 79) (B)	3
**	50-1981T91	(same as above) (B)	
48	01-3549	Positioner Assy (Late Style) (B)	3
**	50-2038T91	Positioner Assy (Late Style) (B)	
48A	18-874	Positioner Assy (Early Style) (see Note #5)	
49	NSS	O-Ring (in Refs. 79 & 80)	3

Ref.	Part No.	Description	Qty.
50	NSS	Ring, BU (in Refs. 79 & 80) (49 & 50 are same as 41 & 42)	3
51	NSS	Sleeve, Detent	3
52	NSS	Follower, Ball	3
53	NSS	Spring	3
54	NSS	Spring	3
55	NSS	Spring	3
56	NSS	Bonnet	3
57.	02-3815T1	Plug, Button	3
58	NSS	Set Screw	3
59	NSS	Lock Nut	3
60	NSS	Collar, Spool	3
61	NSS	Collar, Spring	3
62	NSS	Guide, Spring	3
63	NSS	Screw	6
64	NSS	Plate, Bearing	6
65	NSS	Plunger, Detent	3
66	NSS	Guide, Piston	3
67	NSS	Ring, BU (in Ref. 79 & 80)	6
68	NSS	O-Ring (in Refs. 79 & 80)	3
69	NSS	Roller, Needle	3
70	50-1188T1	Cover, Right (incl Ref. 71)	1
71	31-1594	Plug (14) (see Note #4)	1
72	NSS	O-Ring (in Refs. 81, 76 & 79)	10



NOTE #6: 3 to 4 Bank Kit # 35-1367T91 can be used up prior to SN2000 but it contains the earlier style Pioneer Couplers. The 4 to 5 Bank Kit # 35-1014 contains the Seymour coupler and should be used up only on early tractors. The new kits will work anywhere even though the hoses are longer than necessary for tractors BSN2000.

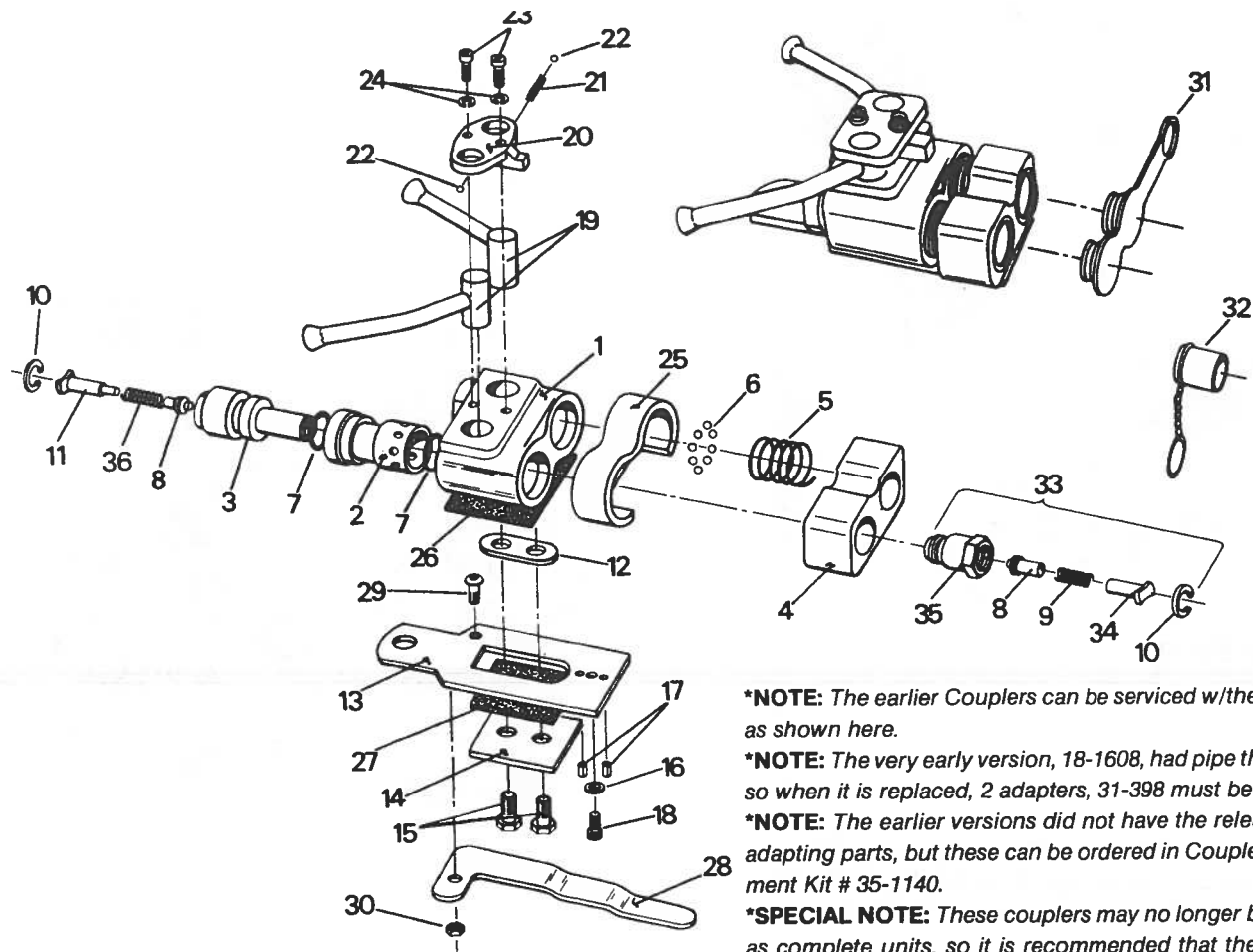
NOTE: Seal Kit No. 35-1277T91 has been replaced by 50-2050T1 as the correct Seal Kit for Ref. 48, Code (E).

SPECIAL NOTE: Before servicing, be sure to check casting numbers as this may be the only way to determine correct service kit.

Control Valve

Ref.	Part No.	Description	Qty.
73	NSS	O-Ring (in Refs. 81, 76 & 79)	10
74	18-908	Stud, (3 Spool)	3
	18-1037	Stud, (4 Spool)	
	18-1038	Stud, (5 Spool)	
75	02-4786T1	Seal Kit, Load Check (incl 1 ea Refs. 29-31 & 33; 2 ea Ref. 32) (is Part of Refs. 76 & 79)	AR
76	18-962	Seal Kit, Complete for all Float Banks, or Spool portion of Wet Detent Bank (casting #6721) (incl 2 of Ref. 75, 1 ea Refs. 25, 26, 40, 46 & 81)	AR
77	18-1417	Relief Poppet & Seal Assy (incl 9 & 10)	1
78	18-1418	Seal Kit, Relief Body (incl Refs. 5, 6, 11 & 12) (use w/casting #1862 before June 81)	1
*	50-2039T1	(same as above) (use w/casting #8398 after June 81)	1

Ref.	Part No.	Description	Qty.
79	35-1059	Seal Kit, Complete for Detent Section w/Ref. 48 (incl 1 ea Refs. 57, 80, 81 & 2 of 75) use on all after Mar 77) (casting #8072 or 7697)	
80	50-2050T1	Seal Kit for Positioner Ref. 48 (incl refs. 49, 50, 67 & 68) (use w/casting #8072 or 7697)	AR
80A	18-983	Seal Kit for Positioner Ref. 48A (see Note #5) (w/casting #6721)	AR
81	01-8344	O-Ring Kit (incl 2 ea Refs. 72 & 73)	AR
40	18-878	Seal Kit (incl 1 ea Refs. 41-43) (note that Refs. 49 & 50 are same as 41 & 42)	AR
82	35-1380T91	3 to 4 Bank Kit (35-1367T91) (C)	1
	35-1381T91	4 to 5 Bank Kit (35-1014) (C)	1



***NOTE:** The earlier Couplers can be serviced w/the later parts as shown here.

***NOTE:** The very early version, 18-1608, had pipe thread Ports so when it is replaced, 2 adapters, 31-398 must be ordered.

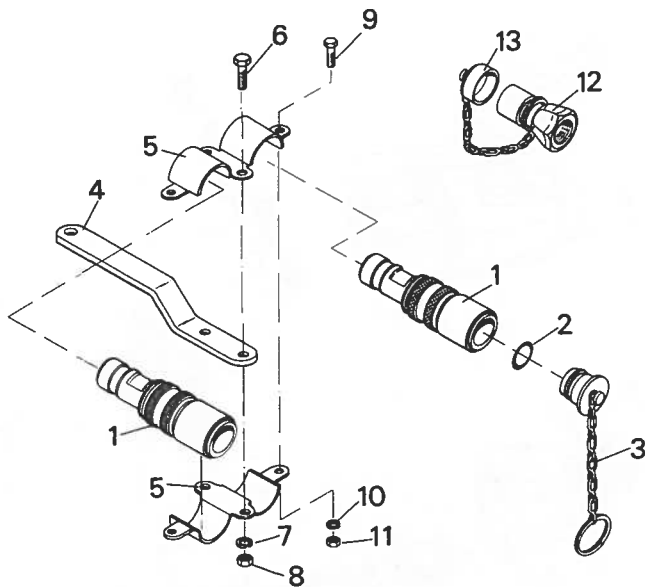
***NOTE:** The earlier versions did not have the release lever & adapting parts, but these can be ordered in Coupler Improvement Kit # 35-1140.

***SPECIAL NOTE:** These couplers may no longer be available as complete units, so it is recommended that the later style Pioneer, as shown on the following page, be ordered as it will accept the male adapter used with this Coupler.

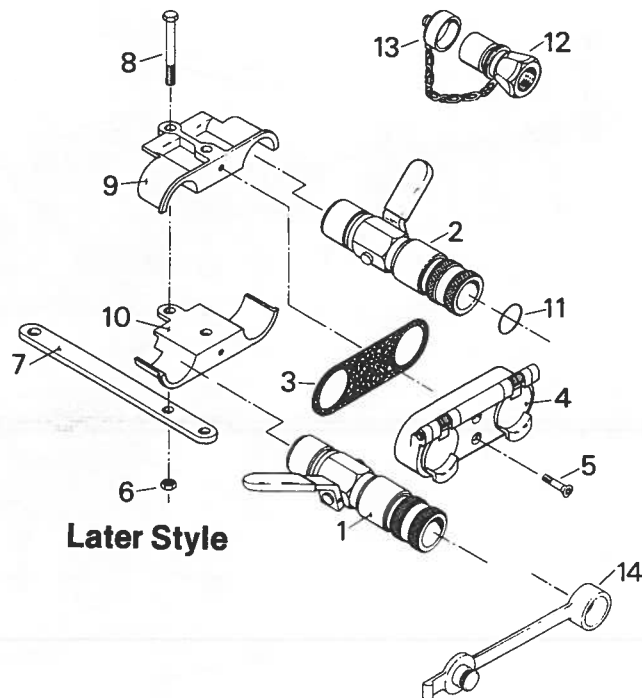
Hydraulic Couplers - Seymour

Ref.	Part No.	Description	Qty.
1-36	01-8085	Hyd Coupler (18-1608 & 18-1760)* (B)	1
	02-1087	Hyd Coupler (w/o Male Tips) (01-2626) (B)	1
1	18-1649	Body	1
2	18-1648	Female Sleeve	2
3	18-1646	Male Sleeve	2
4	18-1652	Coupler End	1
5	18-1650	Sleeve Spring	2
6	18-1651	Steel Ball, 3/16	16
7	18-1647	O-Ring	4
8	02-2052	Piston (18-1645) (E)	4
9	18-1644	Piston Spring	2
10	18-1641	Retaining Ring	4
11	02-1088	Piston Stop & Guide (Repl 18-1642 Piston & 18-1643 Extension) (E)	2
12	02-1089	Spacer (Repl 18-1660 Bushings) (E)	1
13	18-1659	Slide	1
14	18-1661	Hold Down Plate	1
15	19-016	Capscrew, 3/8 UN x 3/4	2
16	19-818	Lock Washer, 5/16	1
17	456540	Roll Pin	2

Ref.	Part No.	Description	Qty.
18	9421620	Socket Head Screw, 5/16 UN x 1/2	1
19	18-1655	Cam & Handle Assy (Left)	1
	18-1654	Cam & Handle Assy (Right)	1
20	18-1751	Cam Retainer (Repl 18-1656 Cover Plate & Retainer Block) (E)	1
21	18-1658	Spring	1
22	18-1657	Steel Ball, 1/4	2
23	19-960	Socket Head Screw, 1/4 NC x 1	2
24	19-115	Lock Washer, 1/4	2
25	01-4600	Dust Shield	1
26	02-1090	Foam	1
27	02-1091	Foam	1
28	02-1092	Lever, Release	1
29	02-1093	Machine Screw	1
30	19-2250	Jam, Nut, 1/4 UNC	1
31	18-1728	Plug	1
32	18-1729	Cap	2
33	18-1653	Male Tip Assembly	2
34	18-1642	Piston Stop & Guide	2
35	18-1750	Male Tip	2
36	02-2051	Piston Spring	2



Early Style



Later Style

NOTE: P/N 50-1347T91 Hyd Coupler (later style) may no longer be available. For service, **order P/N 50-1347T92** which includes the 50-2267T1 plugs in place of Refs. 3-5.

Hydraulic Couplers - Pioneer

Ref.	Part No.	Description	Qty.
Early Style			
1-13	01-7135	Hydraulic Coupler (B)	1
	01-7136	Hydraulic Coupler (w/o Male Tips)	1
1	01-7137	Female Assy (incl #2)	2
2	18-1107	O-Ring	2
3	18-040	Dust Plug	2
4-11	01-7138	Clamp Assy	1
4	01-7139	Bar	1
5	01-7140	Yoke	2
6	19-007	Capscrew	2
7	19-116	Lock Washer	2
8	19-077	Nut	2
9	19-001	Capscrew	2
10	19-115	Lock Washer	2
11	19-076	Nut	2
12	01-7141	Male Tip Assy	2
13	01-7142	Dust Cap	2

Ref.	Part No.	Description	Qty.
Later Style			
1-13	50-1347T91	Hydraulic Coupler (B)(see Note)	1
1	50-1460T91	Female Assy (Yellow Grip) (incl 11)	1
2	50-1459T91	Female Assy (Red Grip) (incl 11)	1
3	50-1458T1	Gasket	1
4	50-1457T1	Housing Assy (can service w/2 of Ref. 14)	1
5	138203	Socket Head Capscrew	2
6	19-087	Lock Nut	2
7	50-1456T1	Clamp Bar	1
8	19-023	Capscrew	2
9	50-1455T1	Clamp, Top	1
10	50-1454T1	Clamp, Bottom	1
11	18-1107	O-Ring	2
12	01-7141	Male Tip	2
13	01-7142	Dust Cap	2
14	50-2267T1	Plug (replaces Ref. 3-5)	2

Section 9 - Decals

Description	Page
Cab Decals	9-1 & 9-2
Chassis Decals	9-3 & 9-4
Spirit of '76 Decals	9-4

BE CAREFUL

OPERATING INSTRUCTIONS

1. Securely fasten your seat belt.
2. Do not permit others to ride.
3. Make certain everyone is clear of machinery before starting engine or operation.
4. Where possible, avoid operating the tractor near ditches, embankments & holes.
5. Reduce speed when turning, crossing slopes & on rough, slick or muddy surfaces.
6. Stay off slopes too steep for safe operation.
7. Watch where you are going especially at low speeds, on roads, & around corners.
8. Operate tractor smoothly to avoid jolts, turns, starts or stops.
9. Keep hands, feet & clothing away from power driven parts.
10. Before dismounting, stop or implement to ground, engage park brake & keep engine shut for all movement to avoid re-starting machinery.
11. Use flashing warning lights at all times on public roads unless prohibited by law.
12. Keep machine clean & properly adjusted for maximum visibility.
13. Keep windows in place when machine is in operation.
14. Read the Operator's Manual for additional safety and operating instructions.

WARNING

PULL ONLY - FROM DRAW BAR OR 3rd HITCH & PROPERLY FASTENED IMPLEMENTS

STEIGER¹

STEIGER²



Cab Decals

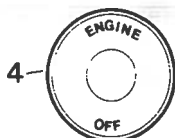
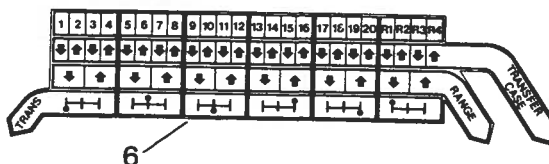
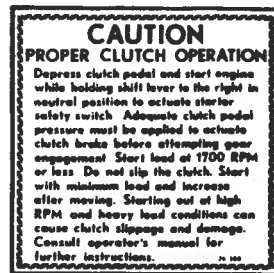
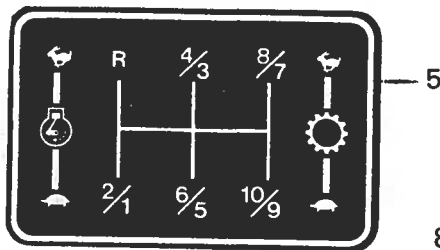
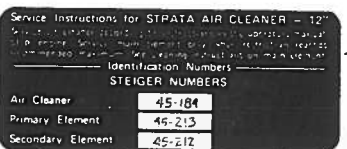
Ref.	Part No.	Description	Qty.
1	02-6895T1	Decal, Steiger (Large) (26-218) (02-3406T1) (B)	1
2	26-238	Decal, Steiger (Small)	2

Ref.	Part No.	Description	Qty.
3	01-5717	Decal, Operating Instructions	1
4	01-5734	Decal, Safety	1

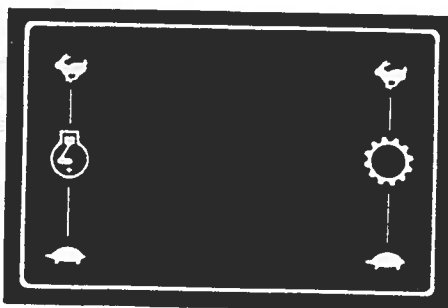
Paint & Decal Kits:

Kits have been released which will enable easy refurbishing of a tractor to give it that "New Look". These Kits contain a complete set of decals, trim tape, safety walk, door weather stripping, glue, new floormat and sufficient quantities of all necessary paints. These kits are as follows:

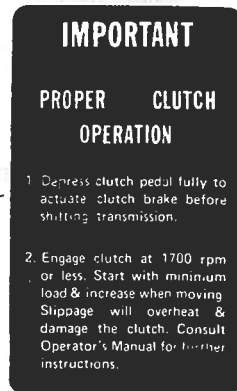
35-1393T91	ST 220
35-1394T91	ST 251
35-1395T91	ST 270
35-1396T91	ST 250
35-1397T91	ST 310
35-1398T91	ST 325
35-1399T91	ST 320
35-1400T91	ST 350



7—



9—



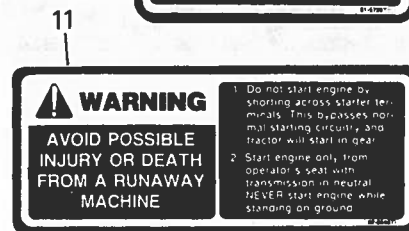
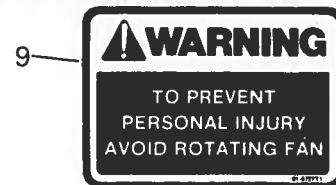
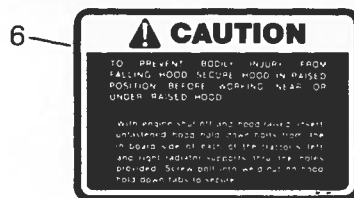
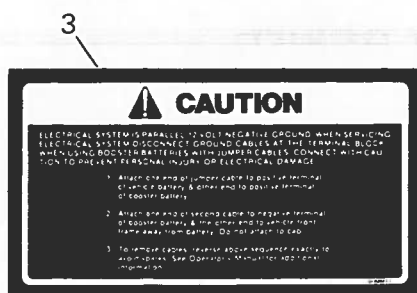
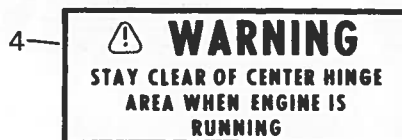
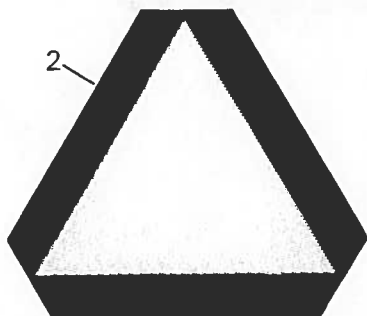
Cab Decals

Ref.	Part No.	Description	Qty.
1	26-523	Decal, Air Cleaner (ST 251 CP, ST 280, ST 310, ST 310 CP, ST 320, ST 325 & ST 350)	1
2	26-522	Decal, Air Cleaner (ST 225, ST 250, ST 251 & ST 270)	1
3	26-524	Decal, Air Cleaner (ST 220)	1
4	02-4553T1	Decal, Engine Shut Off (ST 280 Cat & ST 325)	1
5	26-498	Decal, Shifting (use w/single speed transfer case)	1

Ref.	Part No.	Description	Qty.
6	01-4769	Decal, Shifting (use w/2-speed transfer case)	1
7	01-6185	Decal, Throttle Control	1
8	02-2432T1	Decal, Clutch (01-5718) (B) (use w/trans w/internal neutral start switch) (Latest)	1
9	26-388	Decal, Clutch (use w/trans w/external neutral start switch) (Earlier)	1

STEIGER

7—DIESEL FUEL TANK



Chassis Decals

Ref.	Part No.	Description	Qty.
1	02-3405T1	Steiger Decal, White (26-499) (B)	1
2	26-001	SMV Decal (metal backed)	1
	26-008	SMV Decal (Decal only)	1
3	02-6875T1	Booster Battery Decal (01-5725) (B)	1
4	01-4810	Warning Decal - Center Hinge (service w/#5)	1
5	02-6876T1	Warning Decal - Center Hinge (01-7147) (E) (01-7147T1) (B)	1

Ref.	Part No.	Description	Qty.
6	02-1603	Hood Lock Pin Decal	1
7	26-242T1	Diesel Fuel Decal (26-242) (B)	1
8	02-5348T1	Wheel Lug Nuts Decal (01-4811) (B)	1
9	01-5727T1	Fan Decal (01-5727) (E)	2
10	01-5726T1	Implement Attaching Decal (01-5726) (E)	1
11	02-6940T1	Safety Decal	2

NOTE: No-Skid Strip
P/N 01-6835.
Safety Walk Tape
P/N 26-1059 (qty. 6).
54-1/2" Trim Tape
P/N 26-534.
64-1/4' Trim Tape
P/N 01-5640.

BEARCAT III 1
ST 220

PANTHER III 3
ST 310

COUGAR III 2
ST 250

4
CUMMINS POWER

5
CAT POWER

Chassis Decals

Ref.	Part No.	Description	Qty.
1	26-500	Decal, Bearcat III ST 220	2
	02-3783T1	Decal, Bearcat III ST 225	2
2	26-504	Decal, Cougar III ST 250	2
	26-509	Decal, Cougar III ST 251	2
	26-505	Decal, Cougar III ST 270	2
	02-4482	Decal, Cougar III ST 280	2
3	26-501	Decal, Panther III ST 310	2
	26-502	Decal, Panther II ST 325	2
	26-503	Decal, Panther III ST 320	2
	01-8116	Decal, Panther III ST 350	2
4	90-3340T1	Decal, Cummins Power	2
5	90-3341T1	Decal, Cat Power	2

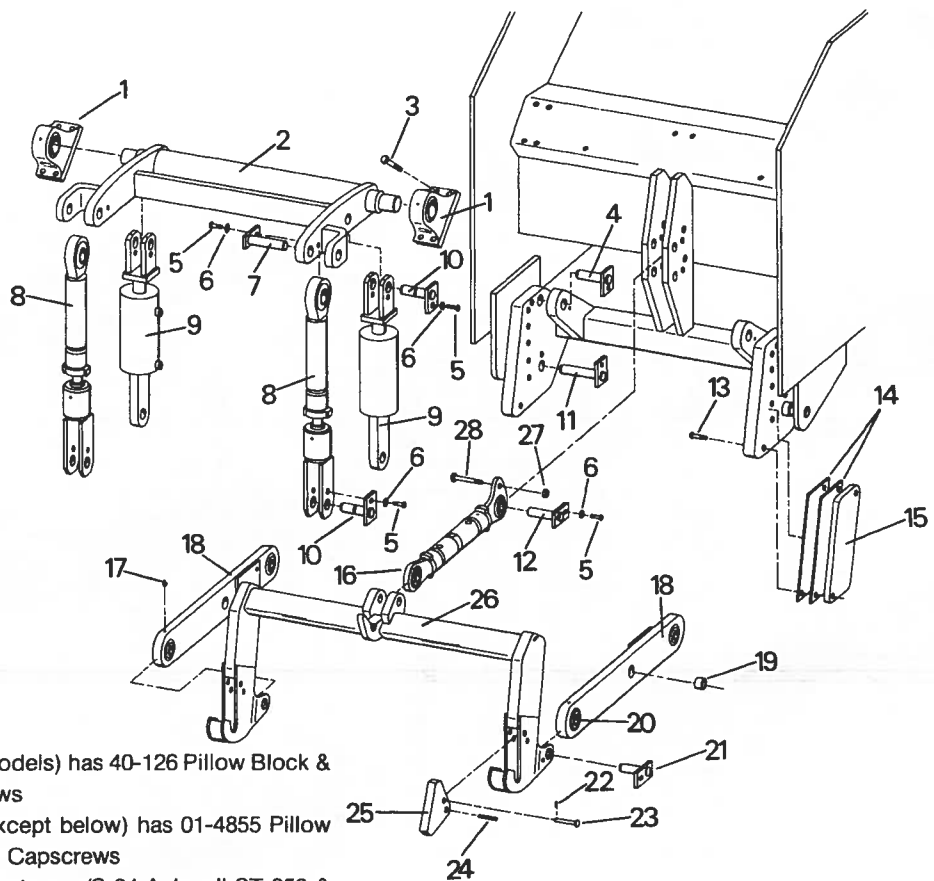
Ref.	Part No.	Description	Qty.
		Spirit of '76 Decals (not shown)	
	01-1923	Decal (Spirit of '76)	2
	01-1924	Decal (White Star)	AR
	01-1925	Decal (Blue Star)	AR

Section 10 - Options

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Depth Control	10-52 to 10-55
U.K. Park Brake Option	10-56

Section 10 - Options

Page	Old P/N	New P/N	Code	Model	SN Break
10-1	40-126 19-059	01-4855T1 19-5426	D	ST 220	103-00230
			D	ST 250	104-00331
				ST 270	105-00495
				ST 251	106-00260
				ST 310	107-00473
				ST 320	108-00212
				ST 325	123-00415
				ST 350	139-00011
				ST 225	109-00001
				ST 280	110-00001
				ST 280	111-00001
10-3	18-1152	01-4194	B	ST 220	103-00192
				ST 250	104-00266
				ST 270	105-00330
				ST 251	106-00166
				ST 310	107-00331
				ST 320	108-00187
				ST 325	123-00196
10-3	01-4194	50-1058T91	B	ST 220	model discontinued
				ST 225	109-00251
				ST 250	104-01001
				ST 270	105-01003
				ST 251CP	106CP-01076
				ST 310CP	107CP-01092
				ST320	model discontinued
				ST 325	123-01148
				ST 350	139-00069
				ST 280	110-00001
				ST 280	111-00001
10-6	Old Style Horn mts	New Style Horn mts (3-1-81)	D	ST 220	model discontinued
				ST 225	109-01608
				ST 250	104-01534
				ST 270	105-02001
				ST 251CP	106CP-01511
				ST 310CP	107CP-02002
				ST 320	model discontinued
				ST 325	123-01599
				ST 350	
				ST 280	110-01532
				ST 280	111-01583
10-9	35-1090	35-1090T91	C	ST 320	108-00212
			C	ST 350	139-00021
10-22	02-3095T1	90-2422T1	D	ST 225	109-00328
	02-4064T1	90-2424T1	D	ST 250	104-01001
	02-4063T1	90-2423T1	D	ST 270	105-01031
10-44	35-1054	35-1238T91	D	ST 225	109-00001
	01-2967	01-9277	D	ST 250	104-00331
		01-9280	D	ST 270	105-00545



* 3-Pt Kits

- 35-1141T92** (Early) (all models) has 40-126 Pillow Block & 5/8 Capscrews
- 35-1168T92** (Later) (all except below) has 01-4855 Pillow Block & 7/8 Capscrews
- 35-1223T94** (Later) (all tractors w/S-34 Axle, all ST 350 & ST 107CP after Oct 81, approx)

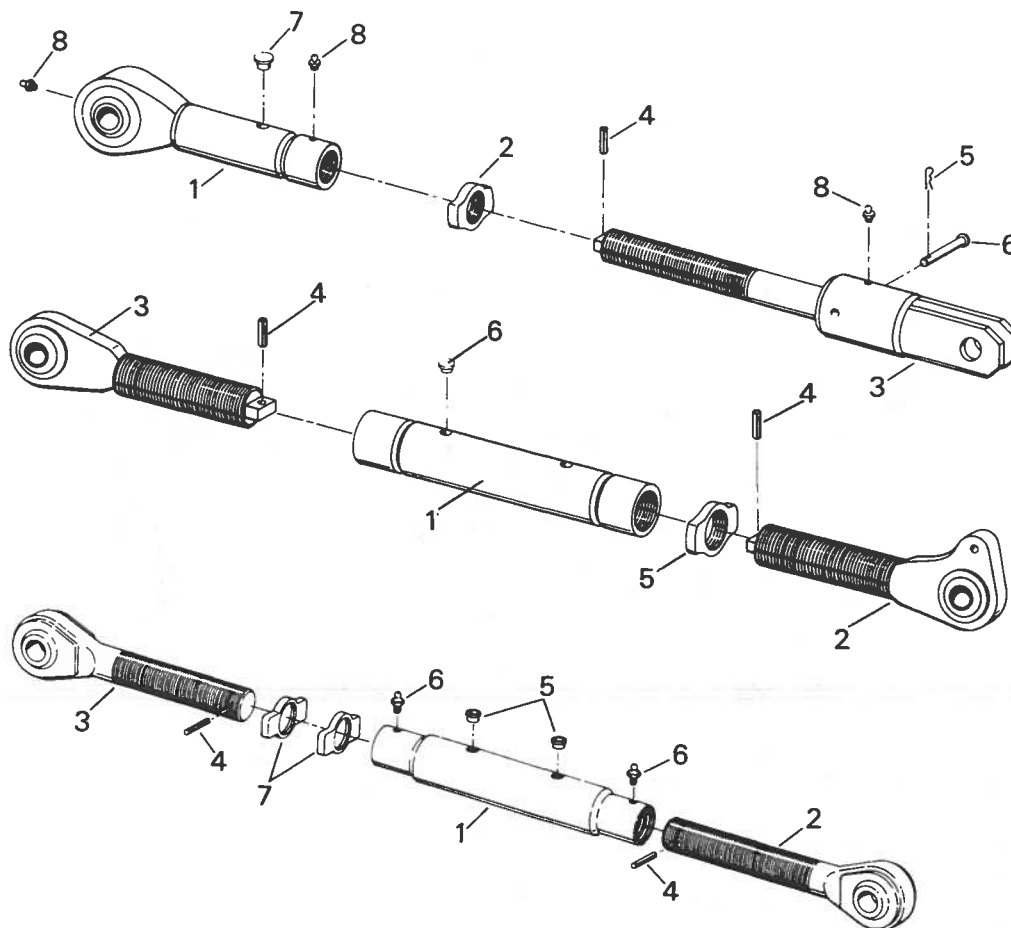
**See following 2 pages for components w/variations.

*NOTE: See Pillow Block S/N Breaks for Kit usage.

3-Pt. Hitch

Ref.	Part No.	Description	Qty.
1	40-126	Pillow Block (D) (Early)*	2
	01-4855T1	Pillow Block (D) (Late)*	
2	70-1850T91	Rocker Shaft (01-4854) (B)	1
3	19-059	Capscrew, 5/8 NC x 1-1/2 (D)*	8
	19-5426	Capscrew, 7/8 NC x 2-3/4 (D)*	
4	40-382	Pin	2
5	19-675	Capscrew, 5/8 NC x 1-1/4	14
6	19-111	Washer, 5/8	14
7	40-440	Pin	2
8	**	Adjusting Arm	2
9	**	Cylinder Assy	2
10	40-430	Pin	4
11	40-380	Pin	2
12	40-432	Pin	2
13	19-042	Capscrew, 1/2 NC x 2-1/4	4
14	40-521	Wear Shim (thin)	4
15	40-519	Wear Plate (thick)	2
16	**	Center Link	1
17	31-094	Zerk (on adj arm & Pillow Block	10
	31-095	Zerk (on Pin #10 only)	4
	31-096	Zerk (on lower link)	4

Ref.	Part No.	Description	Qty.
18	50-038	Lower Link	2
19	15-021	Bushing	2
20	40-106	Housing, Uniball	4
21	40-438	Pin	4
22	19-358	Hairpin	2
23	19-257	Pin, 1/2 x 3	2
24	9411887	Roll Pin, 1/2 x 2-1/2 (19-258) (B)	2
25	40-504	Latch, Quick Hitch	2
26	40-330T1	Quick Hitch (40-330) (B)	1
27	19-084	Nut, 3/4 NC	1
28	19-698	Capscrew, 3/4 NC x 5	1



Adjusting Arm

**Center Link
(Early Style)
(Before July 81)**

**Center Link
(Later Style)
(Eff. July 81)**

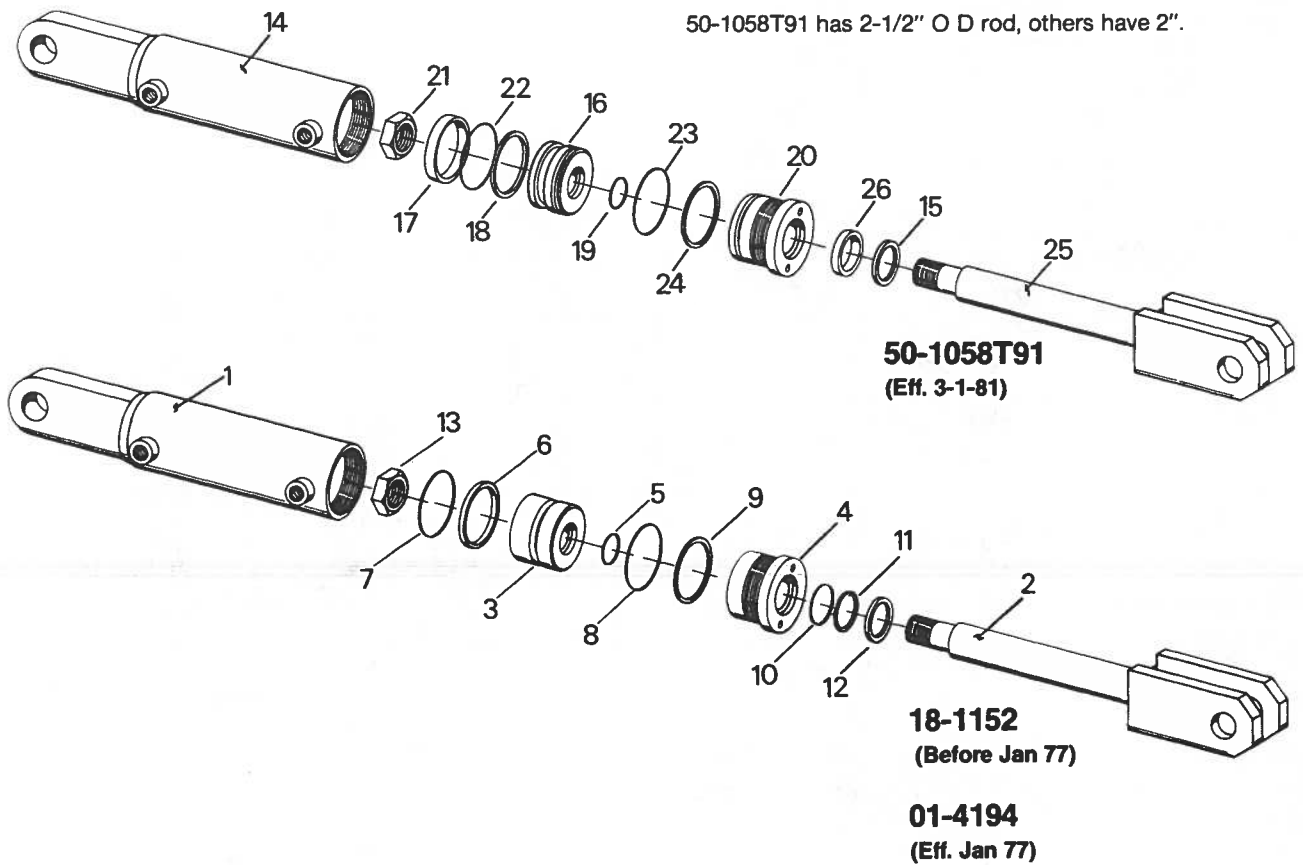
3-Pt Hitch Components

Ref.	Part No.	Description	Qty.
1-8	40-373T91	Adjusting Arm Assy	2
1	40-372	Adjusting Arm (Top Assy)	1
2	40-109	Lock Nut	1
3	40-375T1	Adjusting Arm (Bottom Assy)	1
4	19-786	Coil Spring Pin	1
5	19-358	Hair Pin	1
6	40-322	Float Pin	1
7	18-1292	Plug, Plastic Tube	2
8	31-094	Zerk	3

Ref.	Part No.	Description	Qty.
1-6	40-513	Center Link Assy (Early Style) (service w/late style)	1
1	40-219	Turnbuckle	1
2	40-514	Link, LH Thread	1
3	40-113	Link, RH Thread	1
4	19-786	Coil Spring Pin	2
5	40-109	Lock Nut, RH	1
6	18-1292	Plug, Plastic	2
1-7	70-1829T91	Center Link Assy (Later Style)	1
1	70-1832T2	Tube	1
2	70-1831T1	Socket & Rod (RH)	1
3	70-1830T1	Socket & Rod (LH)	1
4	19-175	Spring Pin	2
5	01-9116	Closure, Plastic	4
6	31-095	Zerk	2
7	02-3651T1	Lock Nut	2

NOTE: This page contains the service breakdowns of all three 3-Pt. cylinders used on the Series III ST models. Be sure to check the cylinder for the correct P/N before ordering specific parts.

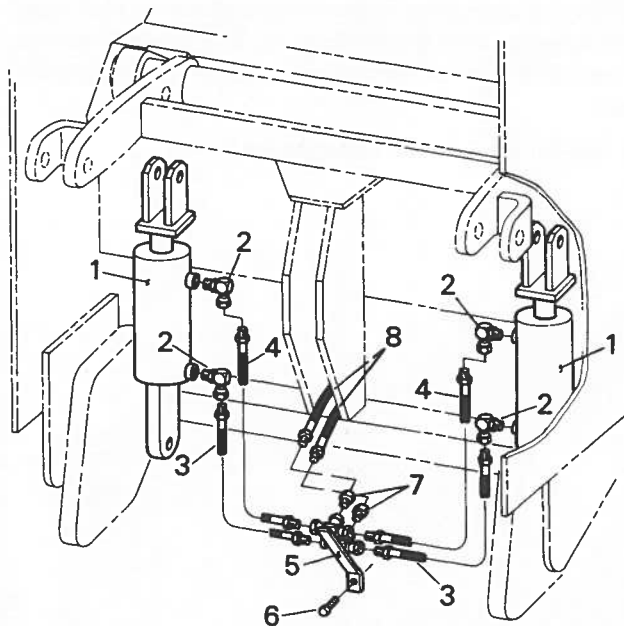
50-1058T91 has 2-1/2" O D rod, others have 2".



3-Pt. Hitch Cylinders

Ref.	Part No.	Description	Qty.
1-13	18-1152	Cylinder Assy (B)	1
	01-4194	Cylinder Assy (B) (see Note)	
	18-1186T91	Seal Kit (incl 5-12)	AR
1	18-1159	Shell Assy	1
2	18-1162	Rod Assy (for 18-1152)	1
	01-4245	Rod Assy (for 01-4194)	
3	18-1160	Piston	1
4	18-1161	Guide, Rod (for 18-1152)	1
	01-4244	Guide, Rod (for 01-4194)	
5	18-1164	O-Ring	1
6	18-1163	Seal, Piston	1
7	18-1171	O-Ring	1
8	18-1166	O-Ring	1
9	02-3761T1	Washer, Back-Up	1
10	18-1168	O-Ring	1
11	02-3762T1	Washer, Back-Up	1
12	18-1170	Wiper	1
13	19-098	Nut, 1 UNF	1

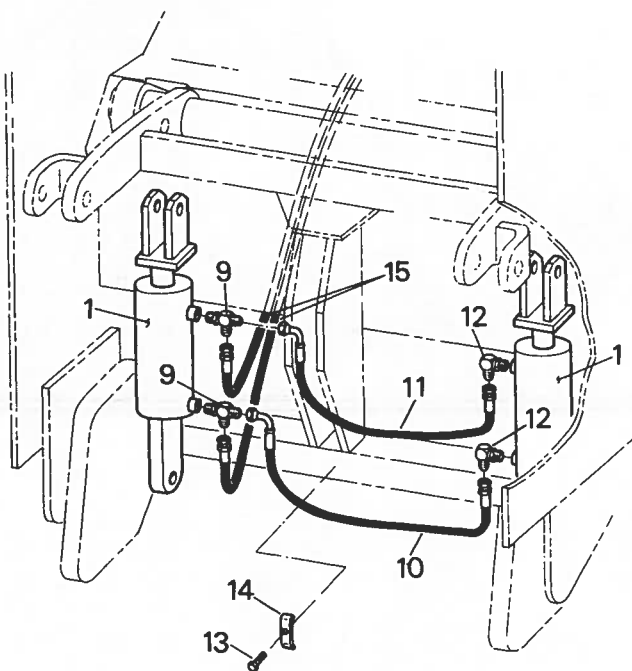
Ref.	Part No.	Description	Qty.
14-26	50-1058T91	Cylinder Assy (B) (see Note)	1
	35-1336T91	Seal Kit (incl 15, 17, 18, 19, 22, 23, 24 & 26)	AR
14	50-1065T1	Shell Assy	1
15	01-9859T1	Wiper	1
16	01-9815T1	Piston	1
17	01-9854T1	Wear Ring	1
18	01-9855T1	Seal, Piston	1
19	01-9857T1	O-Ring	1
20	50-1057T1	Guide, Rod	1
21	19-5582	Lock Nut, 1-1/4 NF	1
22	01-9856T1	O-Ring	1
23	01-9852T1	O-Ring	1
24	01-9853T1	Washer, Back-Up	1
25	01-9817T1	Rod Assy	1
26	01-9858T1	Seal	1



Early Style

NOTE #1: Line Lock Kit P/N 35-1288T91 may be ordered which will lock the 3 Pt Cyls in a set position. This Kit contains a 50-1220T91 (or 50-1345T91) Lock, 2 31-1039 Hoses & 4 31-330 adapters.

NOTE #2: The relief cartridge replaces the load check plug in the control valve & is used to limit the down force on the cyls to 500 PSI.

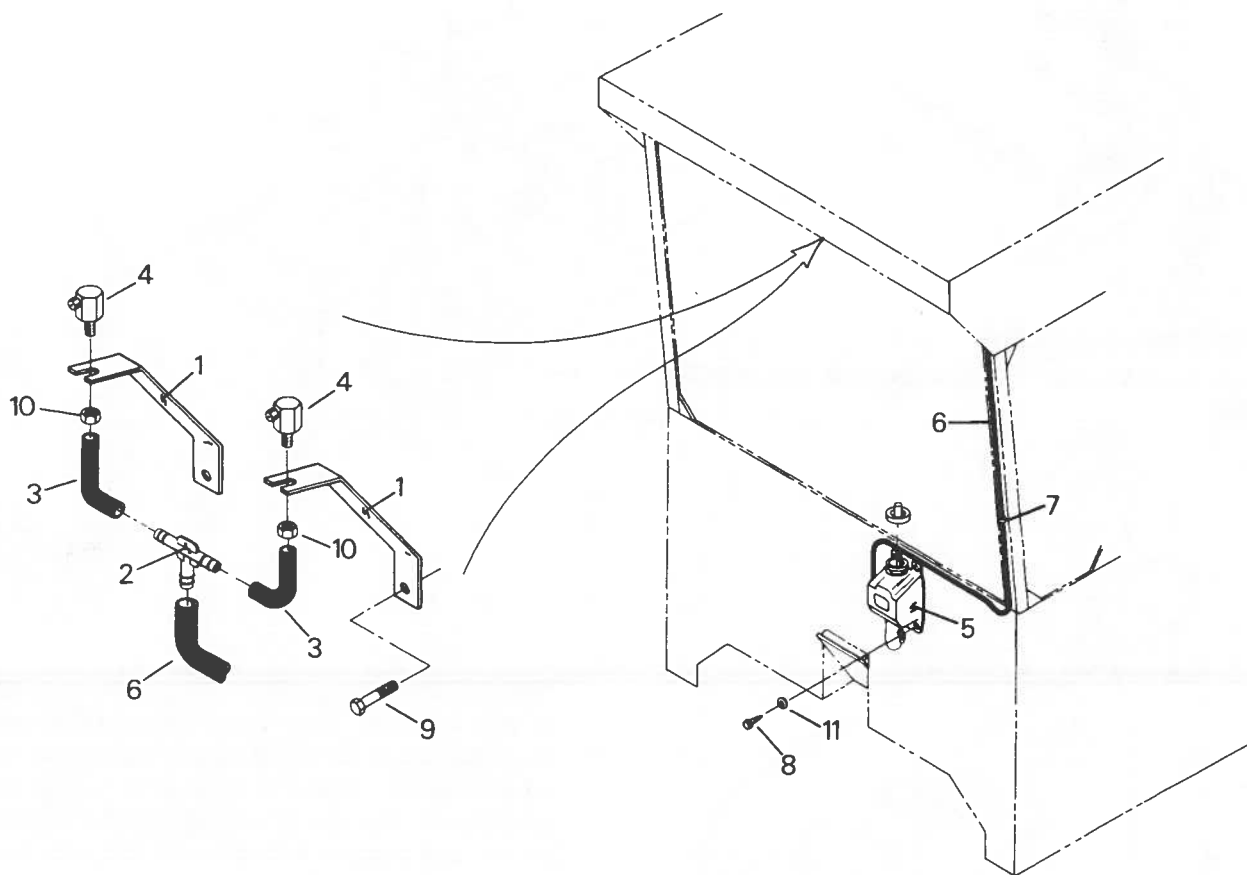


Later Style

3-Pt Hydraulics

Ref.	Part No.	Description	Qty.
1		Cylinder Assy (See Previous Page)	2
2	31-385	Adapter, 90° (8)	4
3	32-1006	Hose	2
4	32-041	Hose	2
5	18-1698	Tee	1
6	19-043	Capscrew 1/2 NC x 1	1
7	19-1094	Adapter	2
8	31-1531	Hose (ST 350 only)	2
	01-1052	Hose (other models)	
9	31-507	Tee (8)	2

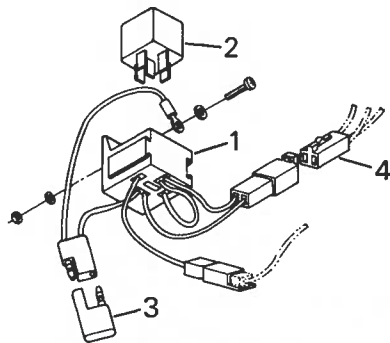
Ref.	Part No.	Description	Qty.
10	31-1541	Hose	1
11	31-1540	Hose	1
12	31-324	Elbow (8)	2
13	19-045	Capscrew, 1/2 NC x 1-1/2	1
14	50-1136T1	Clamp	1
15	31-1539	Hose (BSN2000)	2
	31-1948	Hose (ASN2000)	2
	01-5974	Relief Cartridge (see Note #2)	1



Window Washer

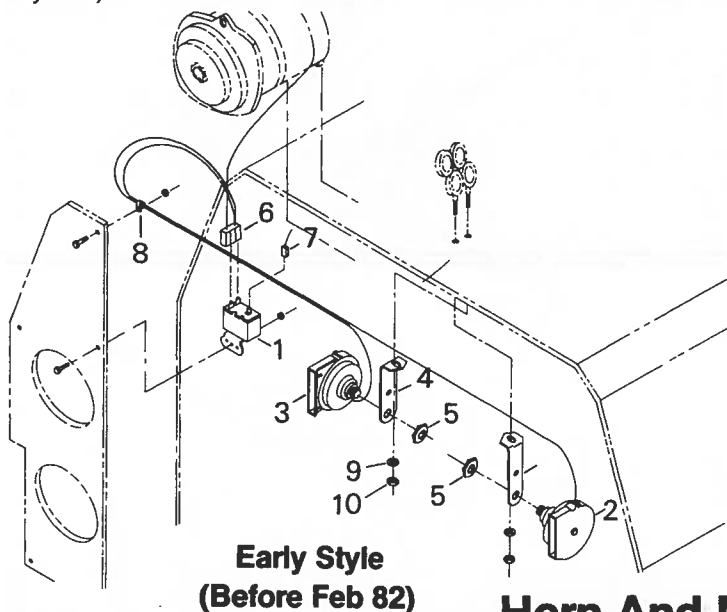
Ref.	Part No.	Description	Qty.
1-11	35-1020	Window Washer Kit	1
1	04-1002	Bracket, Nozzle	2
2	01-1344	Fitting, Tee (included with Ref. 4)	1
3	31-1194	Hose	2
4	01-1345	Nozzle Kit (incl Ref 2 & 10)	2
5	01-1346	Container	1
6	31-1195	Hose	1
7	01-2135	Clip	10

Ref.	Part No.	Description	Qty.
8	19-958	Screw, Tapping	3
9	19-1048	Capscrew	2
10	19-236	Jam Nut	2
		(included with Ref. 4)	
11	19-195	Washer, 3/8 (used on some early models only)	3
	01-2172	Window Washer Fluid (32 oz.) (not shown)	1

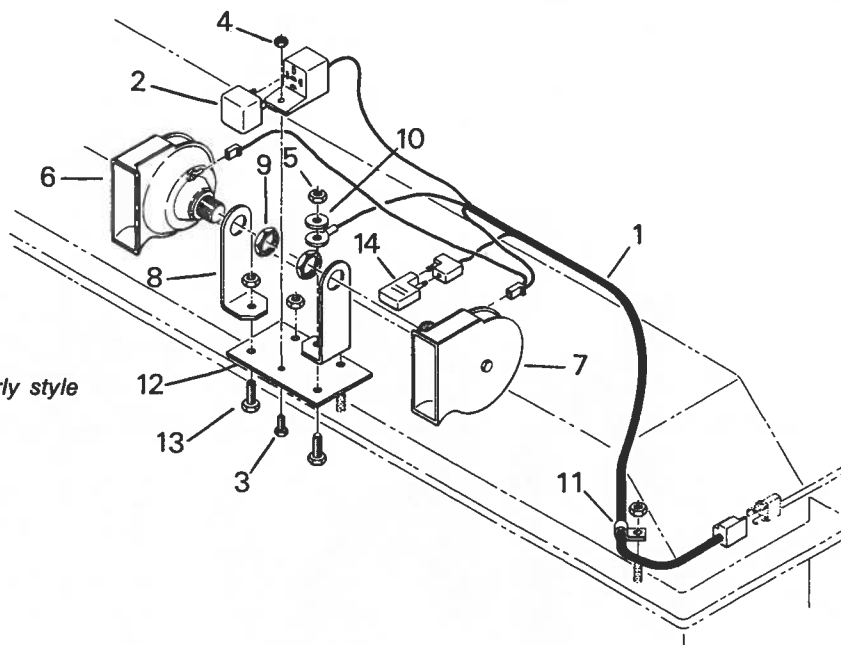


35-1517T91 Relay Kit

(can be used to adapt later style relay into the early style system)



**Early Style
(Before Feb 82)**



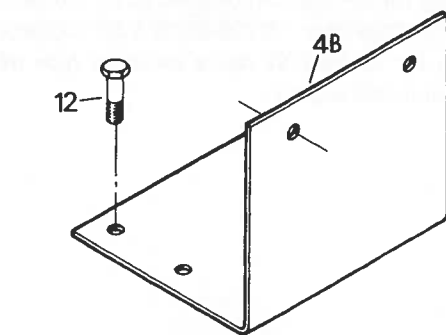
*Kit # 35-1148T91 has replaced all earlier style kits. 35-1031 & 35-1032 were used w/early round bulkhead style harnesses & 35-1148 was used w/the later square Packard style harnesses. Kit #35-1363T91 should be ordered to convert early style mountings to later style in cases where mt breakage or relay failures are a problem. It contains new mts, relay & wiring.

**Items 6 & 7 were combined into 1 harness (01-8579) when used w/Packard style connectors.

Horn And Mountings

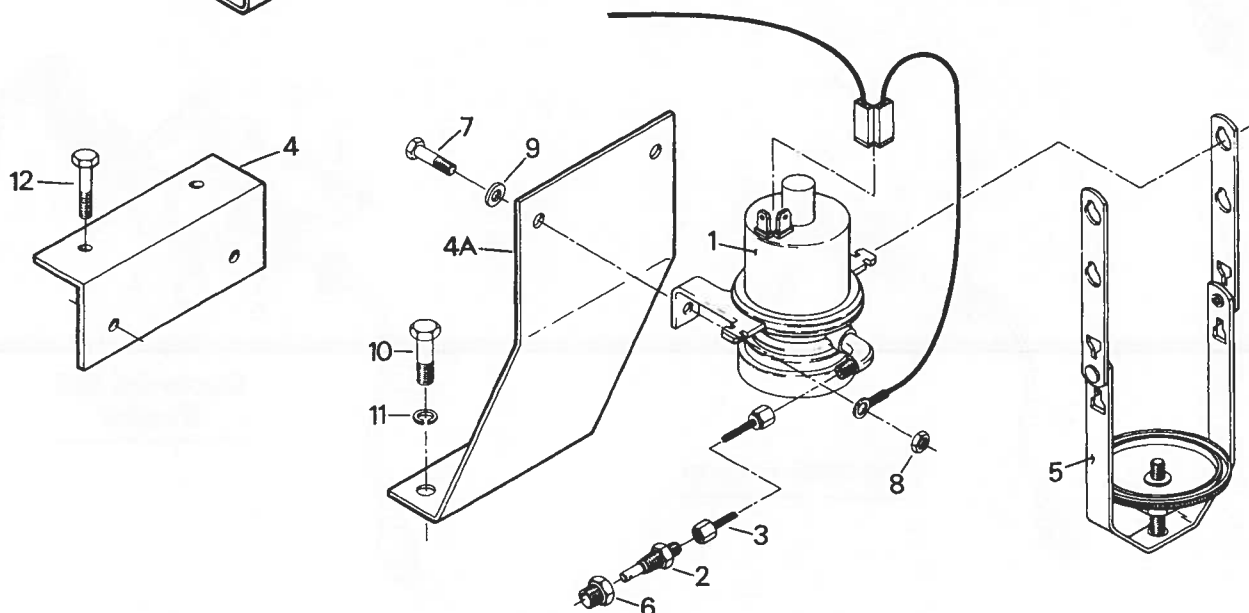
Ref.	Part No.	Description	Qty.
Early Style*			
1-8	35-1032	Horn Kit* (3406 & 903 Eng) (E)	1
	35-1031	Horn Kit* (3306 & 855 Eng) (E)	
	35-1148	Horn Kit* (all, w/square Bulkhead style) (E)	
1	29-1001	Relay	1
2	29-1002	Horn	1
3	29-1003	Horn	1
4	29-1004	Bracket	2
5	19-1002	Nut, 7/8 NF	2
6	01-1417	Wire**	1
7	01-1418	Wire (3306 & 855 Eng)**	1
	01-1419	Wire (3406 & 903 Eng)**	1
8	32-069	Clamp	2
9	19-467	Lock Washer, 1/4	2
10	19-076	Nut, 1/4 NC	2
Relay Kit			
1	20-1948T1	Relay Harness	1
2	01-7877	Relay	1
3	22-738	Diode	1
4	2977373	Connector Body	1

Ref.	Part No.	Description	Qty.
Later Style			
1-15	35-1148T91	Horn Kit (will replace all early Kits)	
1	02-6566T2	Wire Harness (02-6566T1) (E)	1
2	01-7877	Relay	1
3	19-482	Machine Screw, #10 NC x 3/4	1
4	19-5563	Lock Nut, #10 NC	1
5	19-5777	Jam Nut, 5/16 NC	5
6	29-1003	Horn	1
7	29-1002	Horn	1
8	29-1004	Bracket, Horn	2
9	19-1002	Nut, 7/8 NF	2
10	19-106	Washer, 5/16	1
11	32-303	Clamp	1
12	02-4901T1	Bracket, Horn	1
13	19-007	Capscrew, 5/16 NC x 1	2
14	22-738	Diode	1
15	20-1505T1	Harness, Gnd (not shown) (used only on tractors built prior to Feb 82 that do not have Gnd wire in front frame harness)	1



NOTE: Bracket P/N 06-1604 was also used on some early ST 320 & ST 350 models. When ordering a replacement bracket, either version (P/N 06-1604 or 02-1867T1) will work on these early models; however, the tubing length will be different.

NOTE: The Early Style Bail Extensions (P/N 01-1389 - qty. 2) have now been incorporated into the Bail Assembly (Ref. 5). If these extensions are needed, the only way they are available is by purchasing the complete Bail Assembly.

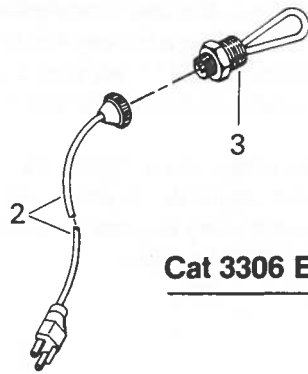


Ether Start Aids

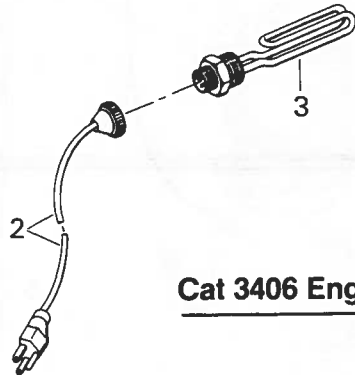
Ref.	Part No.	Description	Qty.
	35-1253T91	Start Aid Kit (Cummins 855 & Cat 3406)	1
	35-1097T91	Start Aid Kit (Cummins 903)	1
	35-1364T91	Start Aid Kit (Cat 3306 DIT 225)	1
	35-1365T91	Start Aid Kit (Cat 3306 DITA 250 & 270)	1
1	06-1600	Solenoid (incl 5)	1
2	06-1603	Atomizer	1
3	31-1550	Tubing (cut to fit)	1
4	06-1604	Bracket Cummins (855 & Cat 3406)	1
	90-1727T1	Bracket (3306 (250 & 270))	1
4A	02-1867T1	Bracket (Cummins 903) (see Note #1)	1
4B	90-1728T1	Bracket (3306) (225)	1

Ref.	Part No.	Description	Qty.
5	01-1388	Bail Assy	1
6	31-015	Reducer (3306 & 855 engines)	1
7	19-211	Capscrew, 1/4 NC x 1-1/4	2
8	19-076	Nut, 1/4 NC	2
9	19-223	Washer, 1/4	2
10	19-018	Capscrew, 3/8 NC x 1-1/4	2
1	19-117	Lockwasher, 3/8	2
12	NSS	(use existing hdwe)	2
	20-1301T1	Switch, temp (3306 Cat engine only) (not shown)	1
	01-1392	Fluid, Ether Starting (can not shown)	1
	22-824	Cable Ties, not shown	4

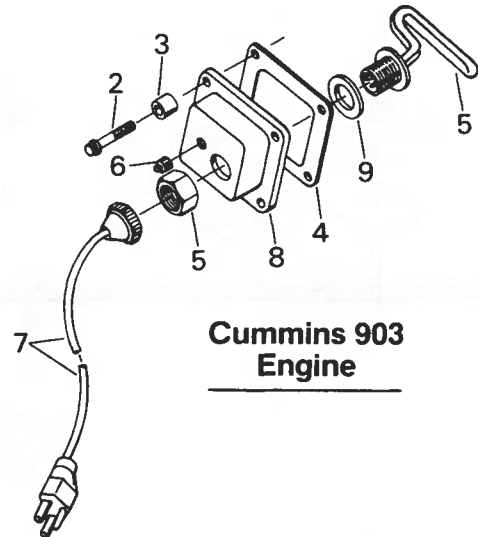
***NOTE:** Block Heater Kit 35-1090 can be used up on the early style 903 engine (ST 320 prior to SN 108-00212 & ST 350 prior to SN 139-00021). Kit 35-1090T91 has a universal type mt bracket and will fit any 903 engine.



Cat 3306 Engine



Cat 3406 Engine



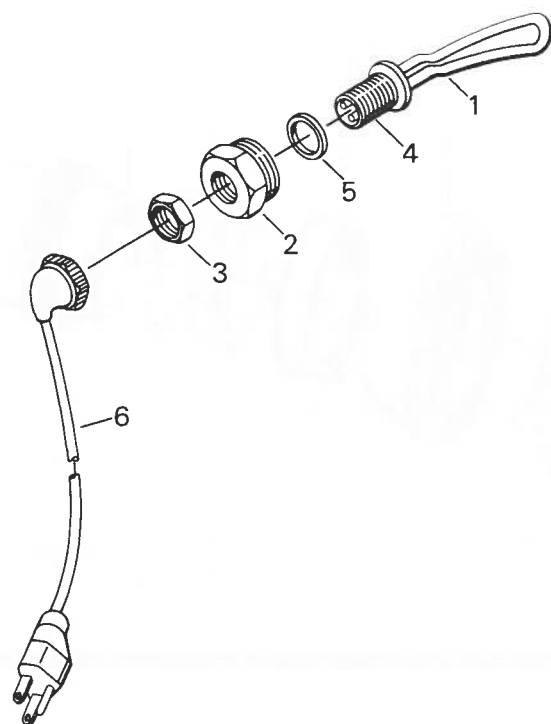
Cummins 903 Engine

Engine Block Heaters & Kits

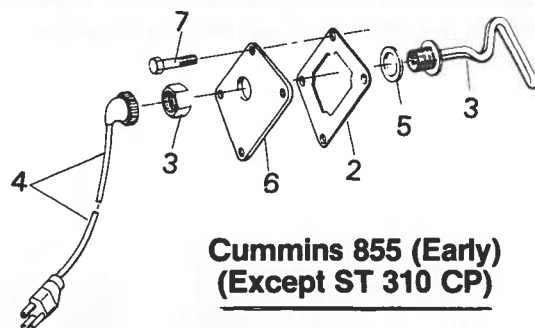
Cat Engines & Cummins 903

Ref.	Part No.	Description	Qty.
Cat 3306			
1-3	35-1093	Kit, Engine Block Heater	1
1	01-5617	Install Dwg	1
2-3	01-5649	Heater, Engine	1
2	01-5615	Element	1
3	01-5604	Heater Cord	1
Cat 3406			
1-3	35-1092	Kit, Engine Block Heater	1
1	01-5614	Install Dwg	1
2-3	01-5645	Heater, Engine	1
2	01-5613	Element	1
3	01-5604	Heater Cord	1

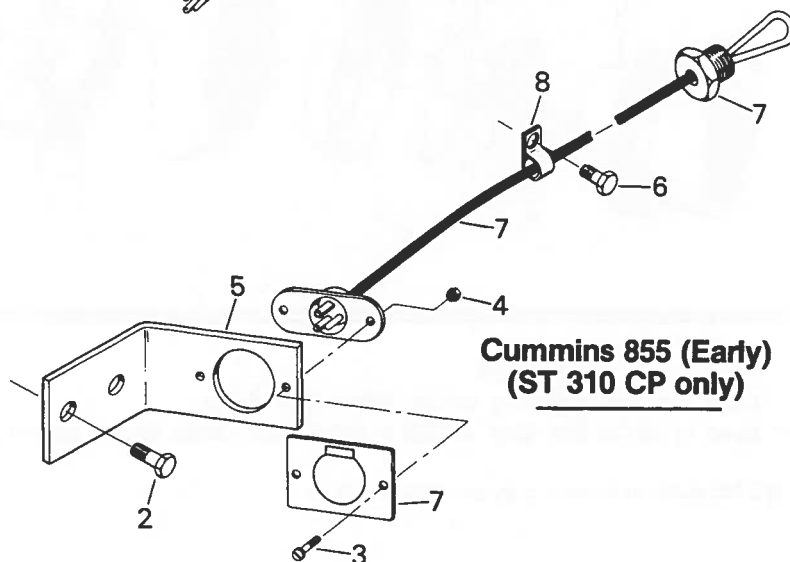
Ref.	Part No.	Description	Qty.
Cummins 903			
1-9	35-1090	Kit, Engine Block Heater (D)*	1
1-10	35-1091T91	Kit, Engine Block Heater (D)*	1
1	01-5607	Install Dwg	1
2	19-374	Capscrew, 3/8 NC x 1-3/4	2
	19-5508	Capscrew, 3/8 NC x 1	2
3	01-6069	Spacer	2
4-9	01-5648	Heater, Engine	1
4	01-5606	Gasket	1
5	01-5605	Element & Nut	1
6	31-036	Pipe Plug	1
7	01-5604	Heater Cord	1
8	NSS	Housing	1
9	NSS	Washer	1
10	02-1868	Bracket, Filter (not shown)	1
	22-824	Cable Tie (not shown)	2



**Cummins 855 (Latest)
All Models
(Will Replace Earlier Styles)**



**Cummins 855 (Early)
(Except ST 310 CP)**



**Cummins 855 (Early)
(ST 310 CP only)**

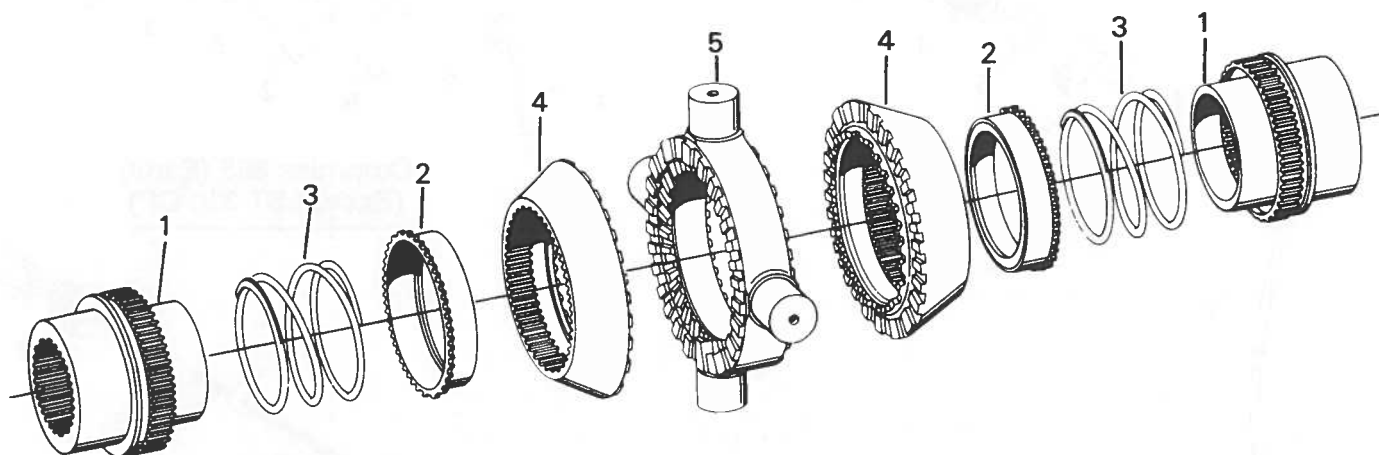
Engine Block Heaters & Kits

Cummins 855 Engine

Ref.	Part No.	Description	Qty.
Cummins 855 (Latest)			
1-6	90-3490T91	Engine Block Heater	1
1	NSS	Element	1
2	NSS	Reducer	1
3	NSS	Nut	1
4	NSS	Bushing	1
5	NSS	Gasket	1
6	90-3491T1	Heater Cord	1

Ref.	Part No.	Description	Qty.
Cummins 855 (Early) (Except ST 310 CP)			
1-7	35-1091	Kit, Engine Block Heater	1
1	01-5612	Installation Dwg	1
2-6	01-5647	Heater, Engine	1
2	01-5610	Gasket	1
3	01-5611	Element & Nut	1
4	01-5604	Heater Cord	1
5	NSS	Washer	1
6	NSS	Cover Plate	1
7	NSS	Capscrews (on Engine)	4
Cummins 855 (Early) (ST 310 CP only)			
1-8	35-1232T91	Kit, Engine Block Heater	1
1	90-1055	Installation Dwg	1
2	19-322	Capscrew	2
3	19-5422	Screw	2
4	19-1015	Nut	2
5	90-1056T1	Bracket, Mtg	1
6	181627	Capscrew	1
7	90-1057T1	Heater, Engine	1
8	NSS	Clamp (Incl w/#7)	1

NOTE: Be sure to check the top of the differential housing for the proper identification number (19120 or 23120). The internal parts for these two differentials are not interchangeable.



*Used in 19120 Diff Assys

**Used in 23120 Diff Assy w/Cut Spline Side Gears

***Used in 23120 Diff Assy w/Rolled Spline Side Gears, in use approx 3-1-83

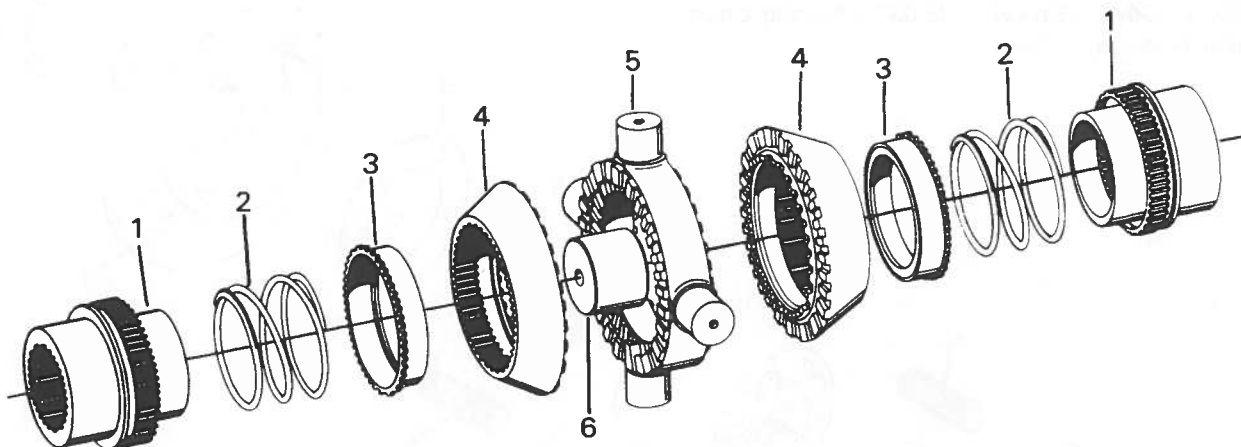
NOTE: A305 axle used only 01-4984 No Spin

No-Spin Axles & Differentials

S-34 & A305 Axles

Ref.	Part No.	Description	Qty.
S-34 Axles & Diff Assys			
	01-5498	Diff & Yoke Assy (Front)*	
	01-5496	Diff & Yoke Assy (Rear)*	
	90-1846T91	Diff & Yoke Assy (Front)**	
	01-4752	Diff Assy (Rear)**	
	90-4018T91	Diff Assy (Front)***	
	01-5500	Axle Assy (Front)*	
	01-5501	Axle Assy (Rear)*	
	01-4753	Axle Assy (Front)**	
	01-4754	Axle Assy (Rear)**	
	90-4012T91	Axle Assy (Front)***	
A305 Axles Only			
	16-1178	Axle Assy, Front (6.17 Ratio)	1
	16-1182	Axle Assy, Front (5.43 Ratio)	1
	16-1181	Axle Assy, Rear (6.17 Ratio)	1
	16-1183	Axle Assy, Rear (5.43 Ratio)	1

Ref.	Part No.	Description	Qty.
1-5	01-4984	No-Spin Assy*	1
	01-4742	No-Spin Assy**	
	90-4045T91	No-Spin Assy***	
1	01-7586	Side Gear*	2
	01-4743	Side Gear**	
	90-3693T91	Side Gear***	
2	16-993	Retainer*	2
	01-4744	Retainer*****	
3	16-996	Spring*	2
	01-4745	Spring*****	
4	16-990	Clutch*	2
	01-4746	Clutch**	
	90-3692T91	Clutch***	
5	01-7587	Spider Cam Assy*	1
	01-4747	Spider Cam Assy*****	



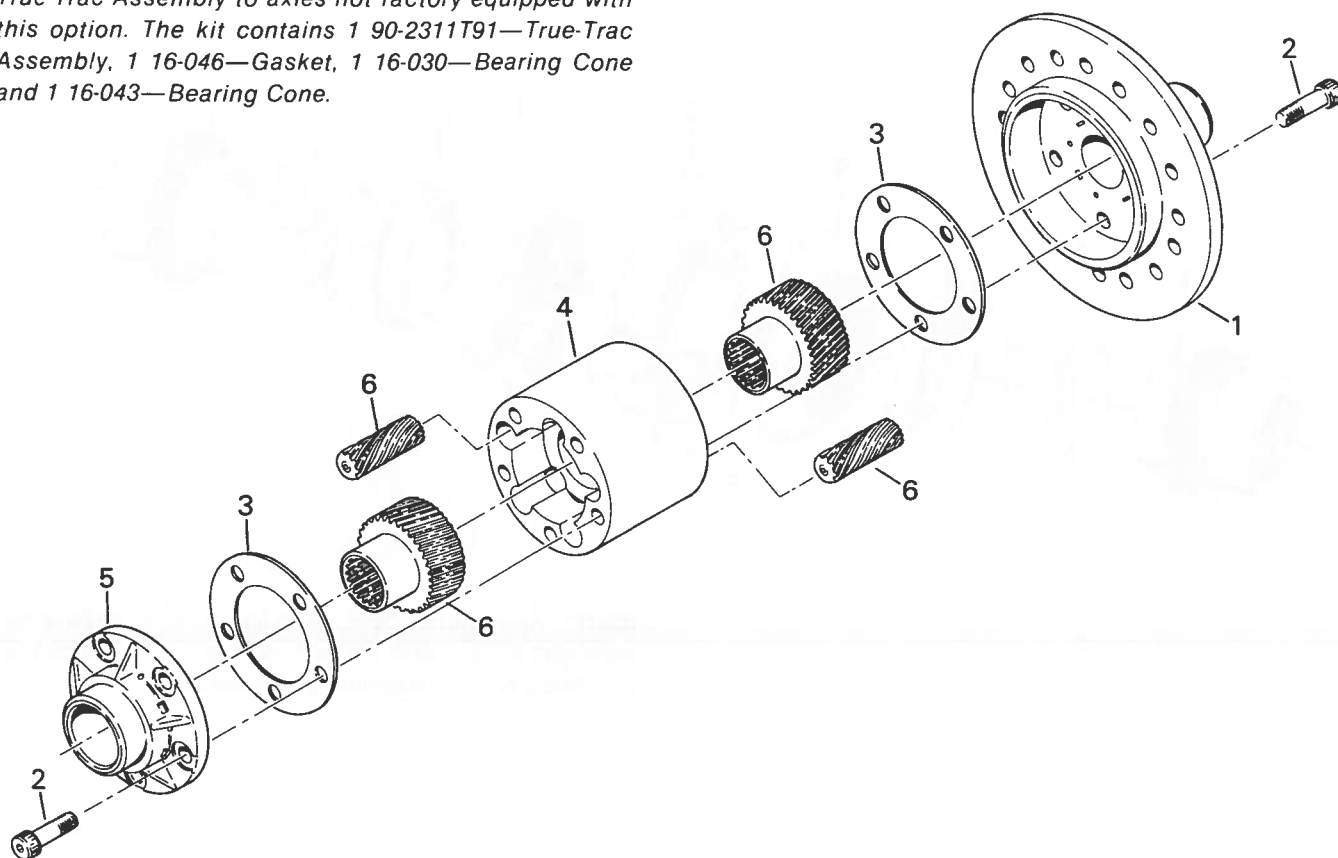
NOTE: There is no No-Spin Assembly presently available for the K-598.20 Rear Axle. Factory approval is required before installing a No-Spin Assembly in the rear axle.

K-598 No-Spin Axle & Differential

Ref.	Part No.	Description	Qty.
	16-1179	Axle Assembly (Front) (K-598.10)	1
	01-8128	Axle Assembly (Front) (K-598.30)	
	16-1180	Axle Assembly (Rear) (K-598.00) (see Note)	
	NAP	Axle Assembly (Rear) (K-598.20) (see Note)	

Ref.	Part No.	Description	Qty.
1-6	16-873	No-Spin Assembly	1
1	16-1461	Side Gear	2
2	16-996	Spring	2
3	16-993	Retainer	2
4	16-1460	Clutch	2
5	16-998	Spider Cam Assembly	1
6	16-1187	Slug	1

NOTE: True-Trac Kit P/N 35-1344T91 used to add the True-Trac Assembly to axles not factory equipped with this option. The kit contains 1 90-2311T91—True-Trac Assembly, 1 16-046—Gasket, 1 16-030—Bearing Cone and 1 16-043—Bearing Cone.



True-Trac No-Spin Axle & Differential

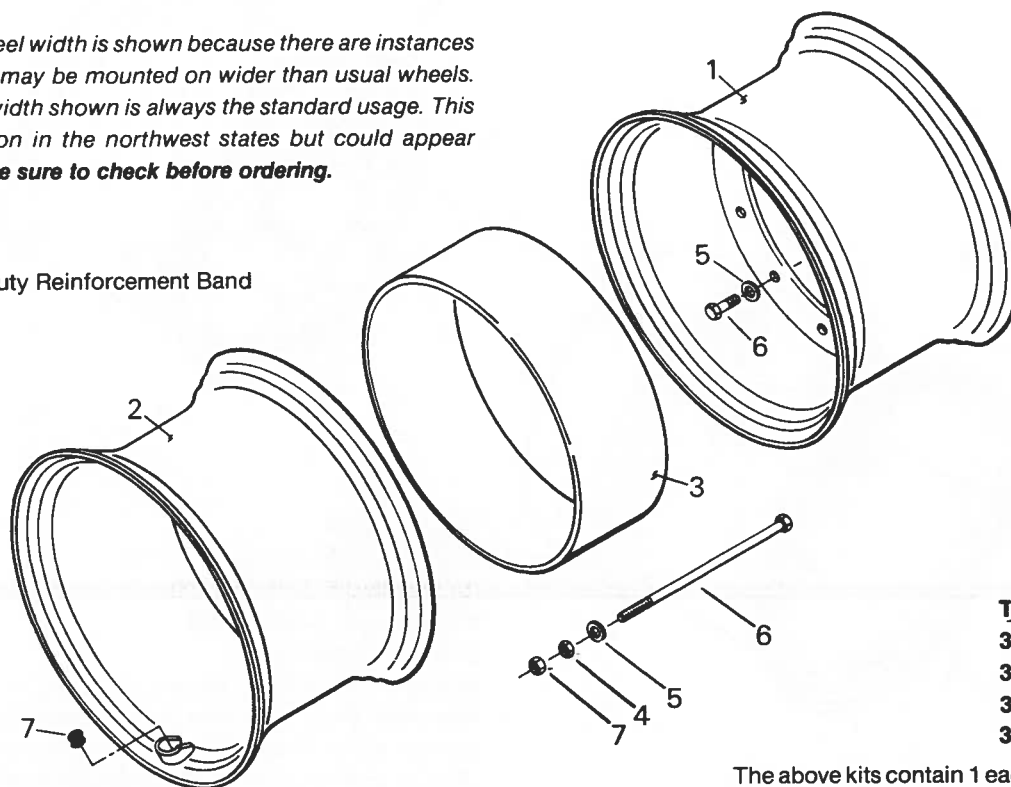
Ref.	Part No.	Description	Qty.
	90-2310T91	Axle Assembly (Front)	1
	90-2309T91	Axle Assembly (Rear)	1
	90-2307T91	Differential Assembly (Front)	1
	90-2308T91	Differential Assembly (Rear)	1
1-6	90-2311T91	True-Trac Assembly	1
1	NSS	Flange Cover	1

Ref.	Part No.	Description	Qty.
2	90-2177T1	Capscrew	10
3	90-2440T1	Thrust Washer	2
4	90-2441T1	Case Body	1
5	NSS	Plain Cover	1
6	90-2442T1	Gear Set Assembly	1

***NOTE:** These later style wheels w/30-part numbers have the heavier .224 rims (old were .188). They also have a 5/8" thick disc, old were 1/2. All other wheels w/o asterisk also have 1/2" disc

NOTE: The wheel width is shown because there are instances where the tires may be mounted on wider than usual wheels. The narrower width shown is always the standard usage. This is most common in the northwest states but could appear anywhere, **so be sure to check before ordering.**

****Has Heavy Duty Reinforcement Band**



Tie Bolt Kits:
35-1322T91 (27")
35-1323T91 (32")
35-1324T91 (34")
35-1325T91 (36")

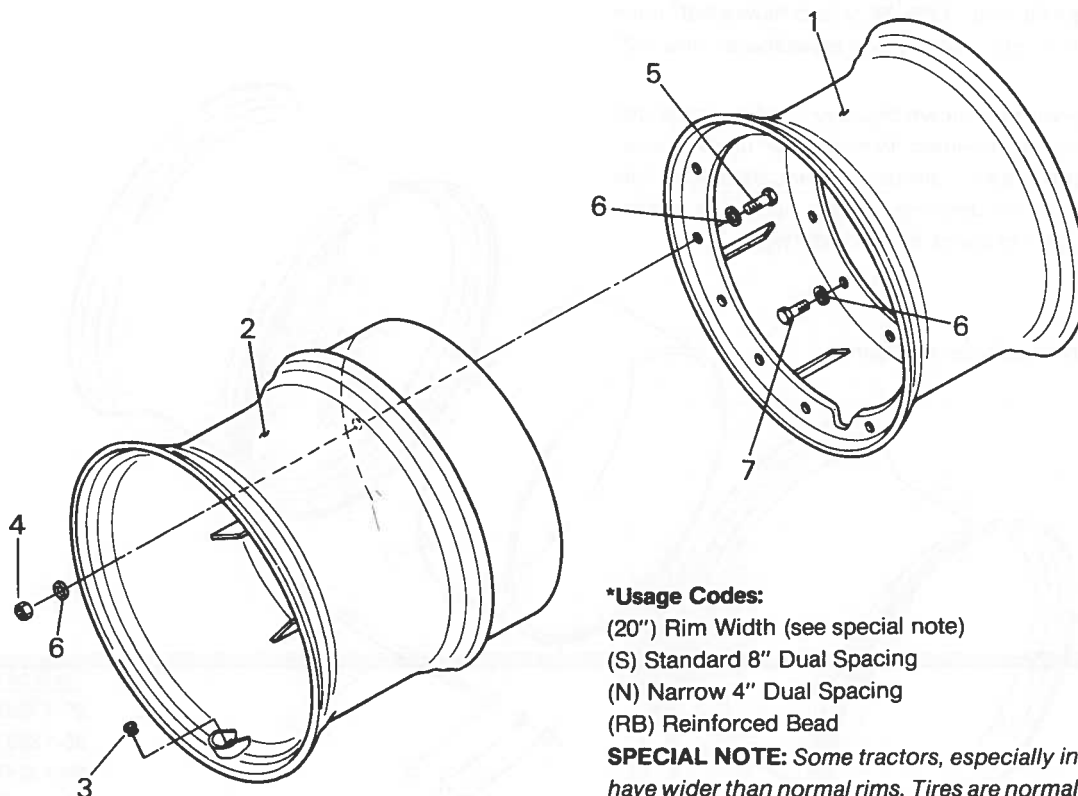
Wheel Gussets to reinforce early wheels are as follows:
 20-064 for 30" wheel (12 used)
 01-4134 for 32" wheel (6 used)
 01-4133 for 34 & 38" wheel (6 used)

The above kits contain 1 each of the UNC parts in items 4-7. These kits were released as a replacement for the UNF bolts which may no longer be available.

Wheels with Spacer Band Duals

Ref.	Part No.	Description	Qty.
1	Main Wheels		
	30-1122T1*	18.4 x 34 (20-046) (B) (16")	
	30-1123T1*	20.8 x 34 (20-053) (B) (18")	
	30-1124T1*	23.1 x 34 (20-297) (B) (20")	
	30-1110T1*	18.4 x 38 (20-125) (B) (16")	
	30-1112T1*	20.8 x 38 (20-117) (B) (18")	
	30-1107T1*	23.1 x 30 (20-298) (B) (20")	
	20-429	23.1 x 30 (20")**	
	20-293	24.5 x 32 (21")	
	30-1250T1	24.5 x 32 (24") (9.38 offset)	
	30-1161T1	24.5 x 32 (24") (10.88 offset)	
	20-294	30.5 x 32 (27")	
30-1159T1	30.5 x 32 (30")		
2	Dual Wheels		
	30-1131T1	18.4 x 34 (20-047) (B) (16")	
	30-1132T1	20.8 x 34 (20-054) (B) (18")	
	20-107	23.1 x 34 (20")	
	30-1129T1	18.4 x 38 (20-127) (B) (16")	
	30-1130T1	20.8 x 38 (20-191) (B) (18")	
	20-051	23.1 x 30 (20")	
	20-056	24.5 x 32 (21")	
30-1152T1	24.5 x 32 (24")		

Ref.	Part No.	Description	Qty.
Spacer Bands			
3	20-077	30" x 13 wide	4
	20-070T1	32" x 13 wide (20-070) (B)	
	20-839T1	32" x 15 wide (20-839) (B)	
	05-266	34" x 11 wide	
	20-162T1	34" x 13 wide (20-162) (B)	
	20-397T1	34" x 15 wide (20-397) (B)	
	45-064	38" x 1 wide	
	20-1007T1	38" x 13 wide (20-1007) (B)	
	20-1001T1	38" x 15 wide (20-1001) (B)	
4	19-261	Nut, 7/8 UNF	24
	19-457	Nut, 7/8 UNC	
5	20-062	Washer	24
6	20-132	Tie Bolt (7/8 UNF x 27)	24
	20-064	Tie Bolt (7/8 UNF x 32)	
	20-833	Tie Bolt (7/8 UNF x 34)	
	(UNC bolts are available in kits only)		
7	19-5501	Jam Nut, 7/8 UNF (G)	24
	19-5753	Jam Nut 7/8 UNC	
8	22-521	Plug (not shown)	4



***Usage Codes:**

(20") Rim Width (see special note)

(S) Standard 8" Dual Spacing

(N) Narrow 4" Dual Spacing

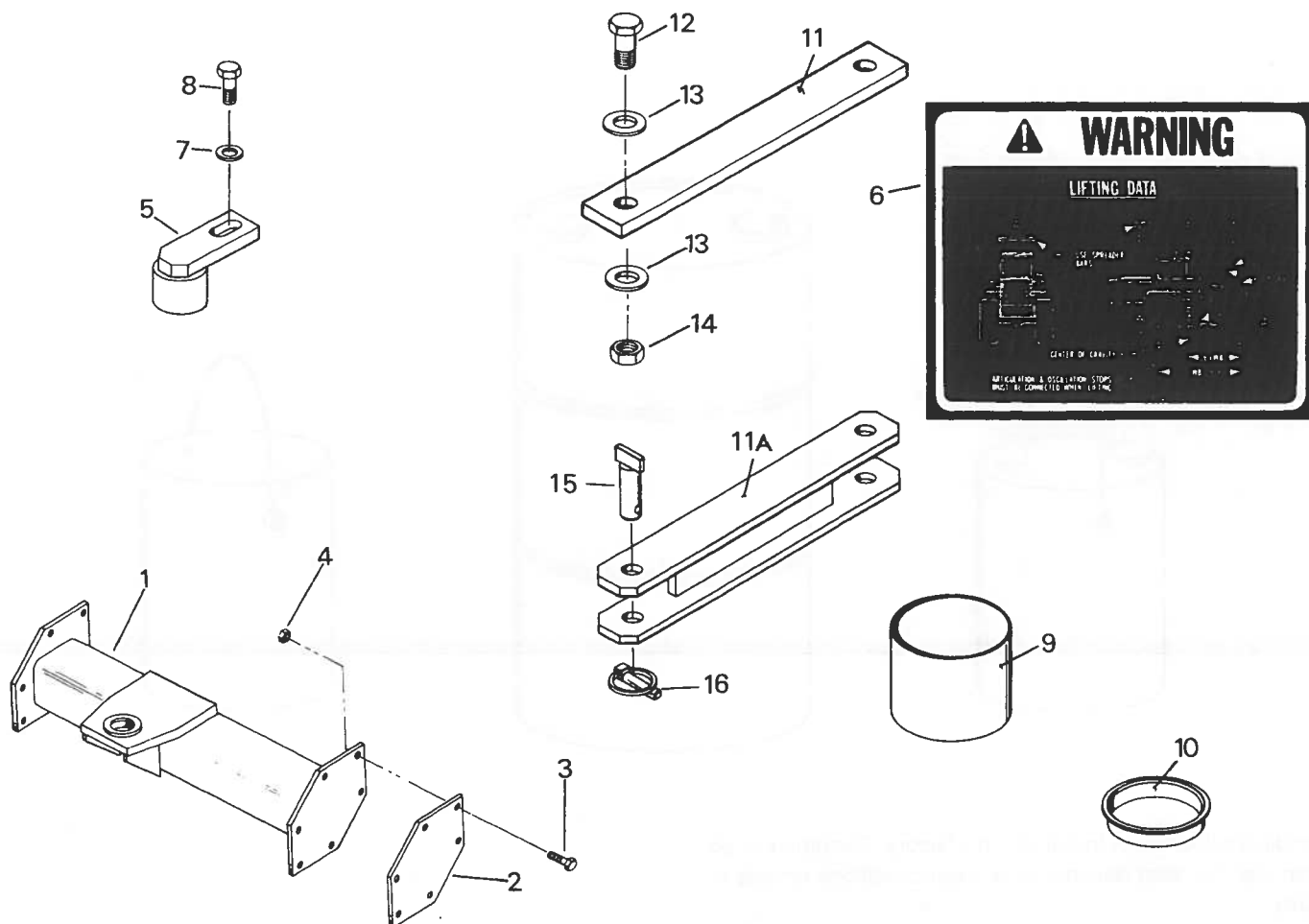
(RB) Reinforced Bead

SPECIAL NOTE: Some tractors, especially in NW States, may have wider than normal rims. Tires are normally mounted on a rim that is 2" or 3" narrower than their size, but in some case a rim was used that is the same width. **Be sure to check width before ordering.**

Wheels W/Hub Bolted Duals

Ref.	Part No.	Description	Qty.
1	Main Wheels		
	30-1189T1	23.1 x 34 (20")	
	30-1056T2	23.1 x 34 (20") (RB)	
	30-1190T1	24.5 x 32 (21")	
	02-2102T2	24.5 x 32 (21") (RB)	
	30-1223T1	24.5 x 32 (24")	
	30-1221T1	24.5 x 32 (24") (RB)	
	30-1013T1	30.5 x 32 (27") (RB)	
	30-1218T1	30.5 x 32 (30") (RB)	
2	Dual Wheels		
	30-1191T1	23.1 x 34 (20") (S)	
	30-1051T1	23.1 x 34 (20") (S) (RB)	
	30-1192T1	24.5 x 32 (21") (S)	
	30-1193T1	24.5 x 32 (21") (N)	
	30-1032T1	24.5 x 32 (21") (S) (RB)	
	02-2434T2	24.5 x 32 (21") (N) (RB)	
	30-1217T1	24.5 x 32 (24") (S)	
	30-1222T1	24.5 x 32 (24") (N)	
	30-1215T1	24.5 x 32 (24") (S) (RB)	
	30-1216T1	24.5 x 32 (24") (N) (RB)	

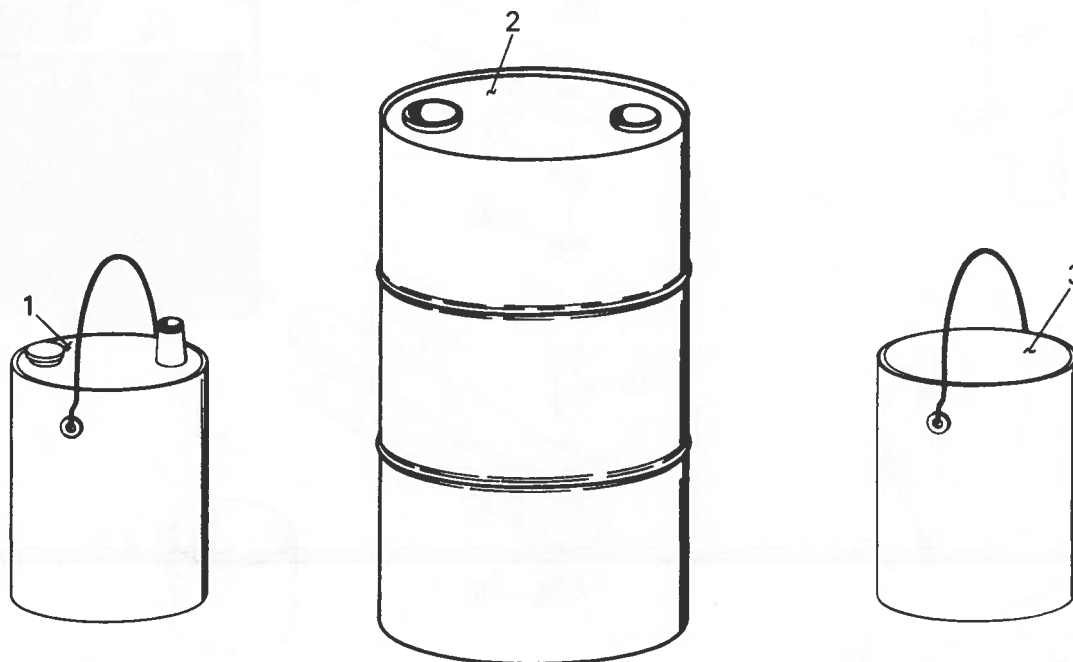
Ref.	Part No.	Description	Qty.
3	22-521	Plug	4
4	19-457	Nut, 7/8 UNC	48
5	19-420	Capscrew, 7/8 UNC x 3	48
6	19-2975	Washer	136
7	223470	Lug Bolt, 7/8 UNC x 2-1/2	40



Cane Hitch, Shipping & Lifting Accessories

Ref.	Part No.	Description	Qty.
1	01-2868	Hitch, Cane	1
2	01-2874	Spacer	2
3	19-394	Capscrew	12
4	19-084	Nut	12
5	01-1025	Lock, Oscillation	2
6	26-1072T1	Decal, Lifting Data	2
7	19-109	Washer	2
8	19-045	Capscrew	2

Ref.	Part No.	Description	Qty.
9	07-1001	Spacer Tube, 7" (air intake)	1
	07-1000	Spacer Tube, 6" (air intake)	1
10	26-548	Plug, Cab Air Inlet	1
11	01-1024	Lock, Articulation (BSN 2000)	2
11A	01-6209	Lock, Articulation (ASN 2000)	2
12	19-676	Capscrew	4
13	19-113	Washer	8
14	19-375	Lock Nut	4
15	01-6205	Pin	2
16	19-345	Klick Pin	2
	01-1702	Shipping Bag (not shown)	
	01-2201	Shipping Bag (not shown)	



*Indicates lubricants installed at the factory. The others listed can also be used depending on local conditions or type of duty.

Lubricants

Ref.	Part No.	Description	Qty.
1	01-4642	Gear Oil - SAE 80W90 (5 gal.)	1
	01-4640	Gear Oil - SAE 85W140 (5 gal.)	1
	02-4625T1*	Gear Oil - SAE 90W (5 gal.)	1
	01-4647	Hydraulic & Transmission Oil (5 gal.)	1
	02-4623T1	Transmission Oil 303 (5 gal.)	1
	02-4624T1*	Hydraulic & Transmission Oil (Hy-Tran) (5 gal.)	1
	02-4626T1*	Hydraulic Oil (Rando B) (5 gal.)	1
	01-7787	Motor Oil - SAE 10W (5 gal.)	1
	01-7790	Motor Oil - SAE 10W30 (5 gal.)	1
	01-7793	Motor Oil - SAE 30W (5 gal.)	1
	02-4622T1*	Motor Oil - SAE 15W40 (5 gal.)	1

Ref.	Part No.	Description	Qty.
2	01-4643	Gear Oil - SAE 80W90 (30 gal.)	1
	01-4641	Gear Oil - SAE 85W140 (30 gal.)	1
	01-4646	Hydraulic & Transmission Oil (30 gal.)	1
	01-7788	Motor Oil - SAE 10W (30 gal.)	1
	01-7791	Motor Oil - SAE 10W30 (30 gal.)	1
	01-7794	Motor Oil - SAE 30W (30 gal.)	1
	02-6894T1	Motor Oil - SAE 15W40 (30 Gal.)	1
3	01-4644	Grease, All-Purpose (35 lb)	1
	01-2390	Grease, All-Purpose (Cartridge)	1

Engine 100 Hr. Kits

3306 Cat Engines

35-1133	100 Hr. Kit		
28-025	Fuel Filter Element	1	
28-036	Oil Filter	1	

3406 Cat Engines

35-1135	100 Hr Kit		
01-2334	Fuel Filter Element	1	
01-2335	Oil Filter Element	1	

All Cummins Engines

35-1127	Kit, w/cartridge oil & By-Pass (D)	1	
35-1129	Kit, w/Spin on oil (2A) & Cartridge By-Pass (3) (D)	1	
35-1243T91	Kit, w/Spin on oil (2A) & By-Pass (3A) (D)	1	
1	28-035	Fuel Filter Element (in all)	2
2	28-018	Oil Element (Cartridge)	1
	06-099	O-Ring (for above)	1
2A	01-2187	Oil Element (Spin on)	1
3	28-028	By-Pass Element (Cartridge)	2
	06-098	O-Ring (for above)	2
3A	90-1158T1	By-Pass Element (spin on)	1

Field Support Kit

Cat 3306 Engines

ST 225, 250 & 270

35-1002	(1A & 2A)* (T & TA Engine
** (35-1432T91)	w/26" Fan) (ASN001)
35-1304T91	(1B & 2B)* (T & TA Engine
** (35-1432T91)	w/30" Fan) (ASN001)
35-1368T91	(1C & 2B)* (DIT & DITA Engine)
** (35-1432T91)	ST 225 ASN328, ST 250
	ASN1001, ST 270 ASN1031)
** (35-1445T91)	(w/Water Filter) (in use
	Aug 82, approx)

Cummins 903 Engines

ST 320 & ST 350

35-1005	(AIIA)* (ST 320 ASN001)
** (35-1411T91)	
35-1025	(1B, 2A, 3A)* (ST 320 ASN197,
** (35-1430T91)	ST 350 ASN001)
35-1187	(1B, 2A, 3B)* (ST 320 ASN212,
** (35-1430T91)	ST 350 ASN021)
35-1242T91	(1B, 2B, 3B)* (ST 320 ASN212,
** (35-1420T91)	ST 350 ASN061)

Ref.	Part No.	Description	Qty.
1A	06-1428	Belt, A/C (26" Fan)	1
1B	90-2151T1	Belt, A/C (30" Fan)	1
1C	01-2820	Belt, A/C (DIT & DITA)	1
2A	06-135	Belt, Alt (Set of 3)	1
2B	90-1502T91	Belt, Alt (Set of 3)	1
3	18-498	Filter, Return	2
4	28-036	Filter, Engine Oil	6/3**
5	28-025	Filter, Fuel	2
6	18-502	Filter, Transmission	2
7	54-304T1	Filter, Cab Air	1
8	07-1011S1	Air Cleaner, Primary	1
9	07-1010	Air Cleaner, Secondary	1
10	01-2390	Grease Cartridge	10
11	28-031	Water Filter (in Kit	1
		35-1445T91 only)	

Ref.	Part No.	Description	Qty.
1A	28-018	Filter, Engine Oil (Cartridge)	6/3**
	06-099	O-Ring (For Above)	6/3**
1B	01-2187	Filter, Engine Oil (Spin-On)	6/3**
2A	28-028	Filter, By-Pass (Cartridge)	6/3**
	06-098	O-Ring (For Above)	6/3**
2B	90-1158T91	Filter, By-Pass (Spin-On)	6/3**
3A	06-140	Belt, Alternator (Set of 2)	1
3B	02-1910	Belt, Alternator (Set of 2)	1
4	18-498	Hyd. Filter	2
5	06-1581	Belt, Fan (Set of 3)	1
6	45-259	Belt, A/C	1
7	18-502	Filter, Trans Cooling	2
8	54-304T1	Filter, Cab Air	1
9	45-252S1	Air Element, Primary	1
10	45-253	Air Element, Secondary	1
11	28-031	Filter, Water	1
12	28-035	Filter, Fuel	2
13	01-2390	Grease Cartridge	10

Cat 3406 Engines

ST 325 & ST 280

35-1018	(w/o Water Filter) (ST 325
** (35-1436T91)	BSN492 only)
35-1345T91	(w/Water Filter)
** (35-1434T91)	

Part No.	Description	Qty.
18-498	Hyd Filter	2
45-252S1	Air Element, Primary	1
45-253	Air Element, Secondary	1
54-304T1	Filter, Cab Air	1
01-2390	Grease Cartridge	10
18-502	Filter, Transmission	2
01-2334	Filter, Fuel (Spin-On)	2
01-2335	Filter, Engine Oil Spin-On)	6/3**
01-2059	Belt, Fan (Set of 2)	1
01-2228	Belt, A/C & Alternator	2
01-2336	Filter Element (Fuel)	1
28-031	Filter, Water	1

***NOTE:** The first 2 to 4 items in the parts lists vary from one Kit to another. These variations are indicated in the first parenthesis after the Kit Part No. The no. in the second parenthesis indicates the starting serial no.

****SPECIAL NOTE:** Field Support Kits w/o belts (filters only) have been released to replace all present kits. This will eliminate the accumulation of belts when more than one kit is ordered. These kits are shown in parenthesis directly below the kit that it will replace. When stock of the old kits is depleted, they will no longer be available. Also lube filter quantities have been reduced to 3, to agree with 250 hour recommended change intervals.

NOTE: In some cases, one new kit will replace two or more of the old.

Field Support Kit

Cummins 855 Engines ST 220

35-1001T91 (all A items)* (ASN001)
**** (35-1409T91)**
 35-1022T91 (1B, 2A, 3A, 4A)* (ASN218)
**** (35-1392T91)**

NOTE: The first 4 items in the following Parts List will vary from 1 Kit to another, those variations are indicated in the first parenthesis after the Kit #. The number in the second parenthesis is the last 3 digits of the starting serial #.

ST 251

35-1003T1 (all A items)* (ASN001)
**** (35-1410T91)**
 35-1023T91 (1B, 2A, 3A, 4A)* (ASN201 to 290)
**** (35-1412T91)** Plus 189, 190 & 105)

ST 251 CP

35-1024T91 (1B, 2A, 3A, 4A)* (ASN291)
**** (35-1430T91)**
 35-1341T91 (1B, 2A, 3A, 4B)* (ASN482)
**** (35-1430T91)**
 35-1266T93 (1B, 2B, 3A, 4B)* (ASN531)
**** (35-1420T91)**

ST 310

35-1004T91 (all A items)* (ASN001)
**** (35-1411T91)**
 35-1024T91 (1B, 2A, 3A, 4A)* (SN335 to 516)
**** (35-1430T91)** Plus 317, 322, 323-326, 328, 330, 331 & 197)

ST 310 CP

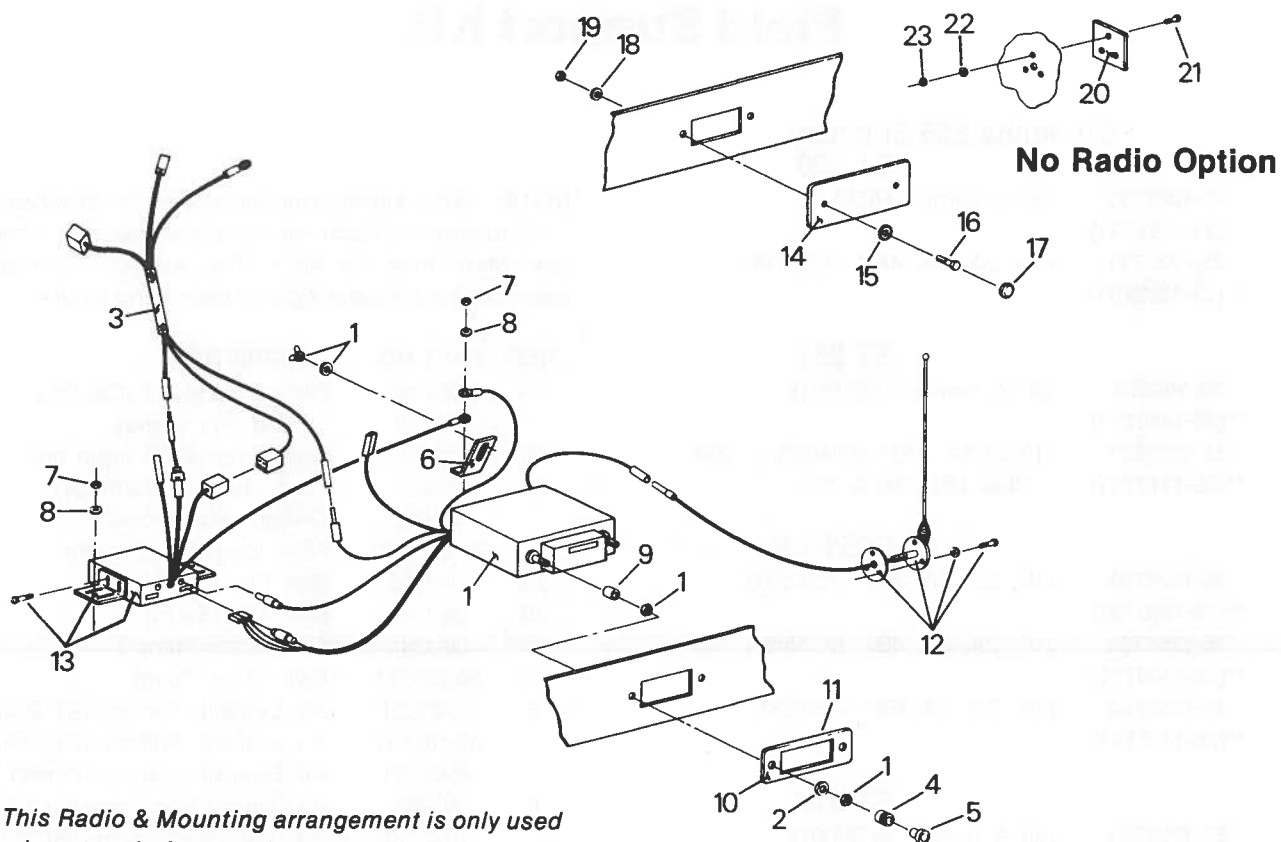
35-1293T92 (1B, 2A, 3B, 4A)* (ASN517)
**** (35-1430T91)**
 35-1341T91 (1B, 2A, 3A, 4B)* (ASN752)
**** (35-1430T91)**
 35-1266T93 (1B, 2B, 3A, 4B)* (ASN784)
**** (35-1420T91)**

ST 280

35-1266T93 (1B, 2B, 3A, 4B)* (ASN001)
**** (35-1420T91)**

REF	PART NO.	DESCRIPTION	QTY
1-A	28-018	Filter, Engine Oil (Cartridge)	6/3**
	06-099	O-Ring (For above)	6/3**
1B	01-2187	Filter, Engine Oil (Spin on)	6/3**
2A	28-028	Filter, By-Pass (cartridge)	6/3**
	06-098	O-Ring, (For above)	6/3**
2B	90-1158T91	Filter, By-Pass (Spin-on)	6/3**
3A	06-1580	Belt, Fan (Set of 2)	1
3B	06-1547	Belt, Fan (Set of 2)	1
4A	06-1546	Belt, Water Pump	1
4B	90-2383T1	Belt, Water Pump	1
5	45-213S1	Air Element, Primary (ST 220)	1
	07-1011S1	Air Element, Primary (ST 251)	
	45-252S1	Air Element, Primary (others)	
6	45-212	Air Element, Secondary (ST 220)	1
	07-1010	Air Element, Secondary (ST 251)	
	45-253	Air Element, Secondary (others)	
7	18-498	Filter, Hyd	2
8	01-6864	Belt, A/C	1
9	28-035	Filter, Fuel	4
10	18-502	Filter, Trans Cooling	2
11	54-304T1	Filter, Cab Air	1
12	28-031	Filter, Water	1
13	01-2390	Grease Cartridge	10

****See Special Note on Page 10-18**

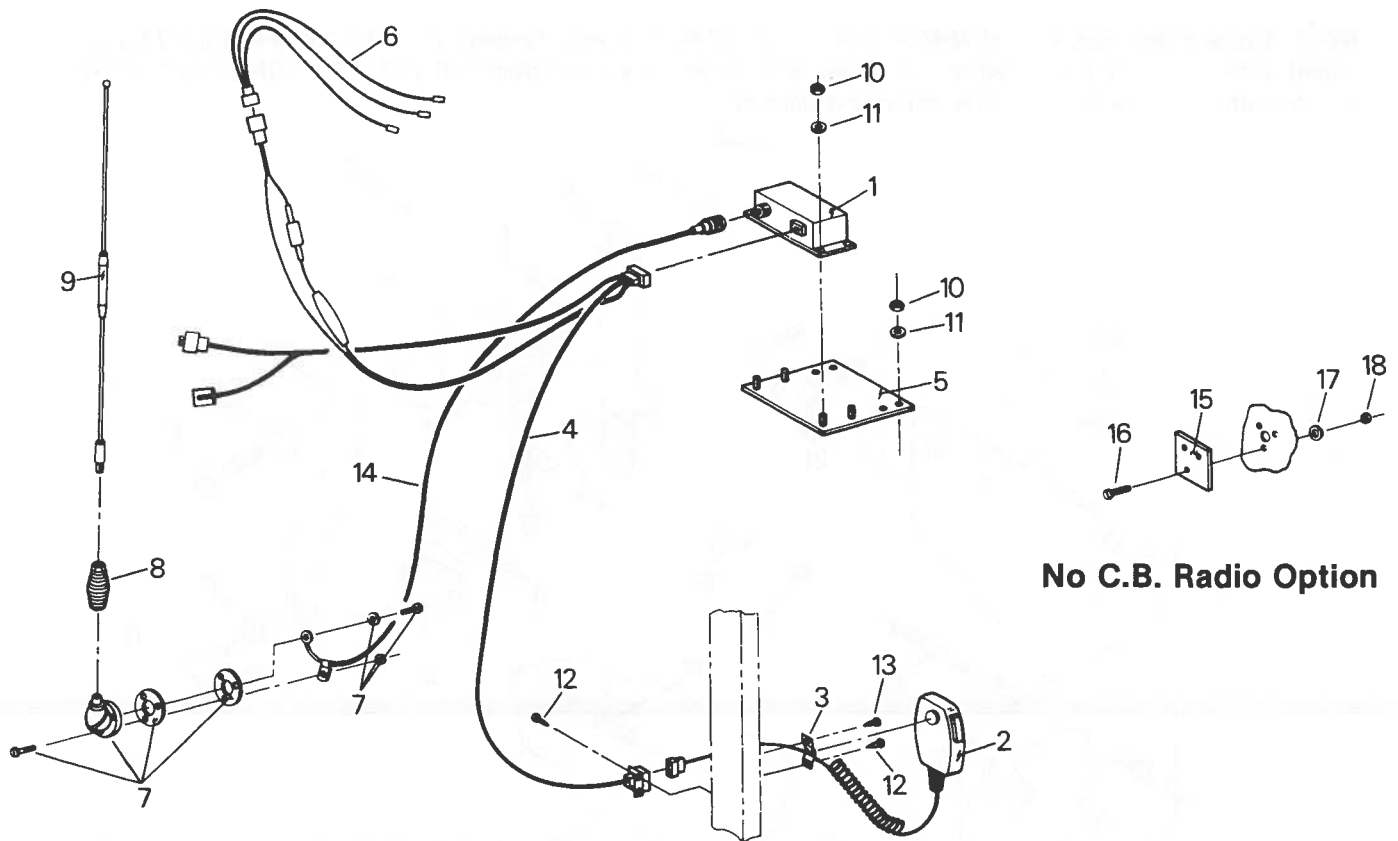


NOTE: This Radio & Mounting arrangement is only used with the latest style front and rear consoles.

Radio & Mounting - Electronic Cassette (Fujitsu) (11-1-80 to 7-1-82)

Ref.	Part No.	Description	Qty.
1	60-1752T91	Radio, Electronic Cassette	1
2	19-5409	Washer, Trim	2
3	60-1753T1	Wire Harness, Adapter	1
4-5	01-4357	Knob Set (incl 60-1754T1 Inner Knobs & 60-1755T1 Outer Knobs which are no longer available separately)	1
6	60-1708T1	Bracket, Radio Mount	1
7	19-567	Nut, #10 UNC	5
8	19-467	Lock Washer, 1/4	5
9	05-306	Spacer	2
10-11	60-1710T91	Decal/Bezel Assembly	1
10	60-1707T1	Decal, Radio	1
11	60-1709T1	Bezel, Radio	1

Ref.	Part No.	Description	Qty.
12	01-4545	Antenna, Radio (includes all mounting hardware)	1
13	60-1499T1	Amplifier	1
14	02-1784T1	Plate, Trim	1
15	01-3991	Caplug Washer	2
16	19-006	Capscrew, 5/16 x 3/4 UNC	2
17	01-3990	Caplug	2
18	19-700	Washer, 5/16	2
19	19-802	Lock Nut, 5/16 UNC	2
20	02-1783T1	Plate, Cover	1
21	19-572	Machine Screw, #10 x 1/2 UNF	3
22	19-297	Lock Washer, #10	3
23	19-308	Nut, #10 UNF	3



No C.B. Radio Option

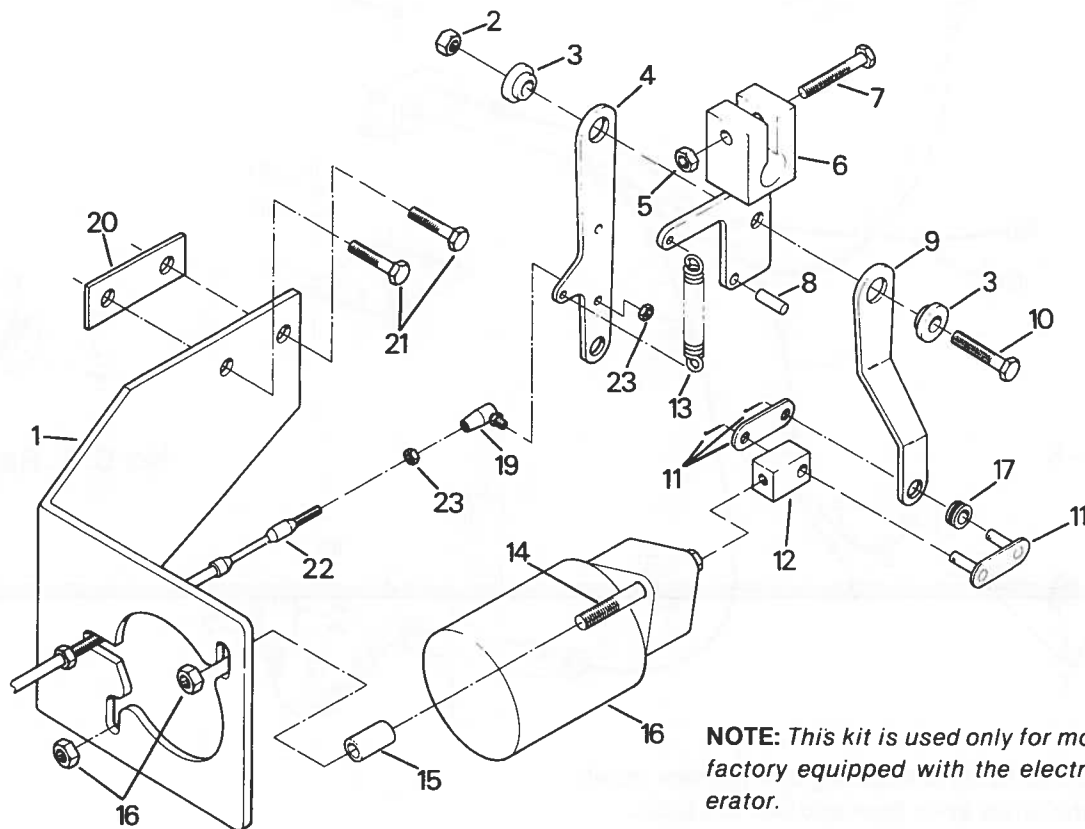
NOTE: This C.B. Radio & Mounting arrangement is only used with the latest style front and rear consoles.

C.B. Radio & Mounting

Ref.	Part No.	Description	Qty.
1-4	60-1756T91	C.B. Radio (40 Channel)	1
1	60-1500T1	Transceiver	1
2	60-1757T1	Microphone	1
3	60-1758T1	Clip, Microphone	1
4	60-1759T1	Wire Harness	1
5	60-1950T1	Bracket, C.B. Radio (used with Electronic Cassette Radio only)	1
6	20-1372T1	Wire Harness, C.B. Adapter	1
7	60-1961T2	Mount, Antenna Ball	1
8	60-1960T2	Spring, Antenna	1
9	60-1958T1	Antenna	1
10	19-567	Nut, #10 UNC (qty. 8 with Electronic Cassette Radio)	4

Ref.	Part No.	Description	Qty.
11	19-467	Lock Washer, 1/4 (qty. 8 with Electronic Cassette Radio)	4
12	19-5795	Screw, Tapping, #8 x 1/2 UNC	3
13	9415487	Screw, Tapping, #8 x 1/2 UNC	1
14	60-1959T1	Antenna Lead, Coax	1
15	02-1783T1	Plate, Cover	1
16	19-572	Machine Screw, #10 x 1/2 UNF	3
17	19-297	Lock Washer, #10	3
18	19-308	Nut, #10 UNF	3

NOTE: These levers (Ref. 4 - P/N 02-4064T1 & Ref. 9 - 02-4063T1) were revised when the grommet (Ref. 17) was added. When ordering a replacement for the early style Ref. 9 (without grommet) order Lever Kit P/N 35-1320T91 which contains the later style lever and one grommet.



NOTE: This kit is used only for models not factory equipped with the electric decelerator.

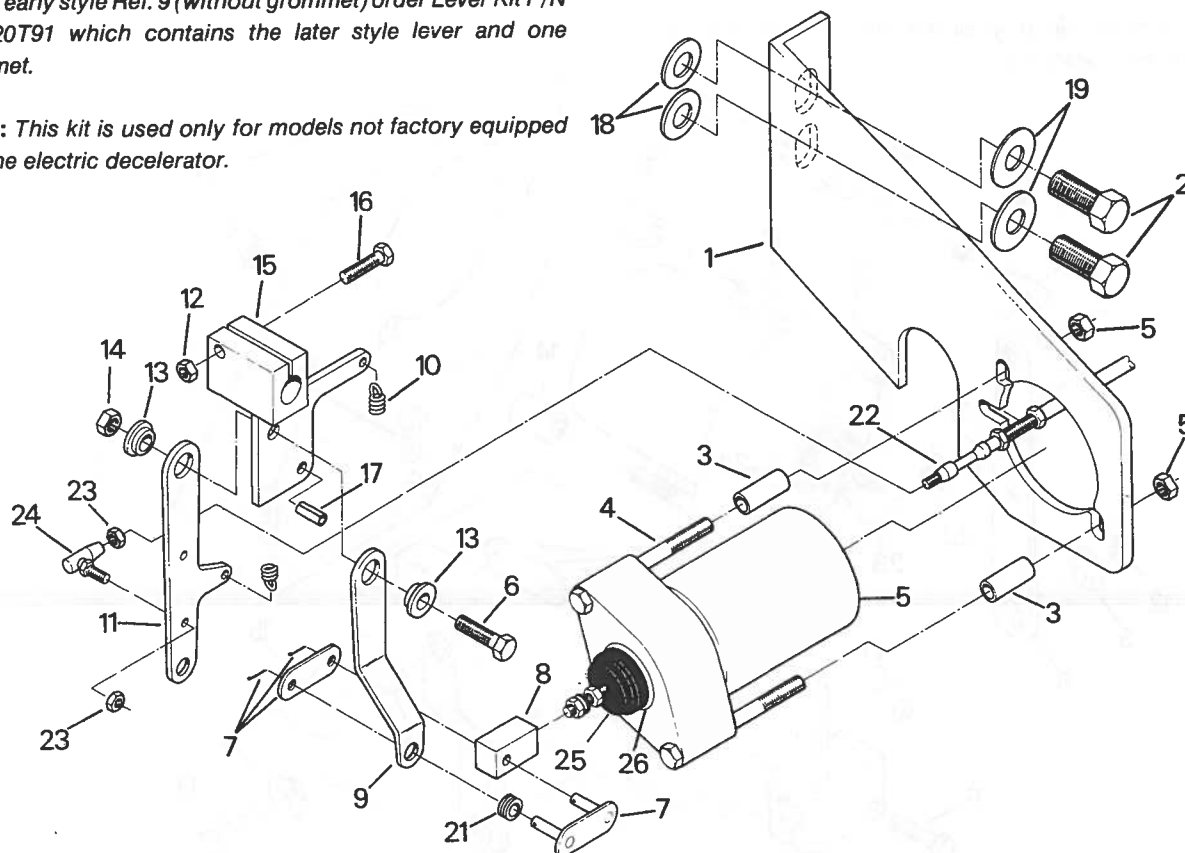
Electric Decelerator 3306 Cat Engine

Ref.	Part No.	Description	Qty.
1-18	35-1235T94	Kit, Electric Decelerator (see Note)	1
1	02-3095T1	Bracket, Throttle (D) (shown above)	1
	90-2422T1	Bracket, Throttle (D)	
2	19-077	Nut	1
3	02-2386T2	Bushing (02-2386T1) (B)	2
4	02-4064T1	Lever, Throttle (D) (shown above) (see Note)	1
	90-2424T1	Lever, Throttle (D)	
5	19-076	Nut	1
6	02-3093T1	Collar, Pivot	1
7	19-550	Capscrew	1
8	19-151	Roll Pin	1
9	02-4063T1	Lever, Decelerator (D) (shown above) (see Note)	1
	90-2423T1	Lever, Decelerator (D)	

Ref.	Part No.	Description	Qty.
10	19-234	Capscrew	1
11	02-3604T1	Link, Connecting	1
12	02-3603T1	Block	1
13	11-016	Spring	1
14	19-188	Capscrew	2
15	04-118	Spacer	2
16	02-2389T91	Solenoid (02-2389T1) (H) (incl 24 & 25)	1
17	02-4062T1	Grommet	1
18	35-1276T91	Kit, Decelerator Wiring (see Page 11-29)	1
19	06-1431	Ball Joint	1
20	04-588	Spacer	1
21	19-654	Capscrew	2
22	29-058	Cable, Throttle	1
23	19-308	Jam Nut	2
24	02-6602T1	Boot (on Rear of 16)	1
25	272861	Clamp (on Rear of 16)	1

NOTE: These levers (Ref. 9 & 11) were revised when the grommet (Ref. 21) was added. When ordering a replacement for the early style Ref. 9 (without grommet) order Lever Kit P/N 35-1320T91 which contains the later style lever and one grommet.

NOTE: This kit is used only for models not factory equipped with the electric decelerator.



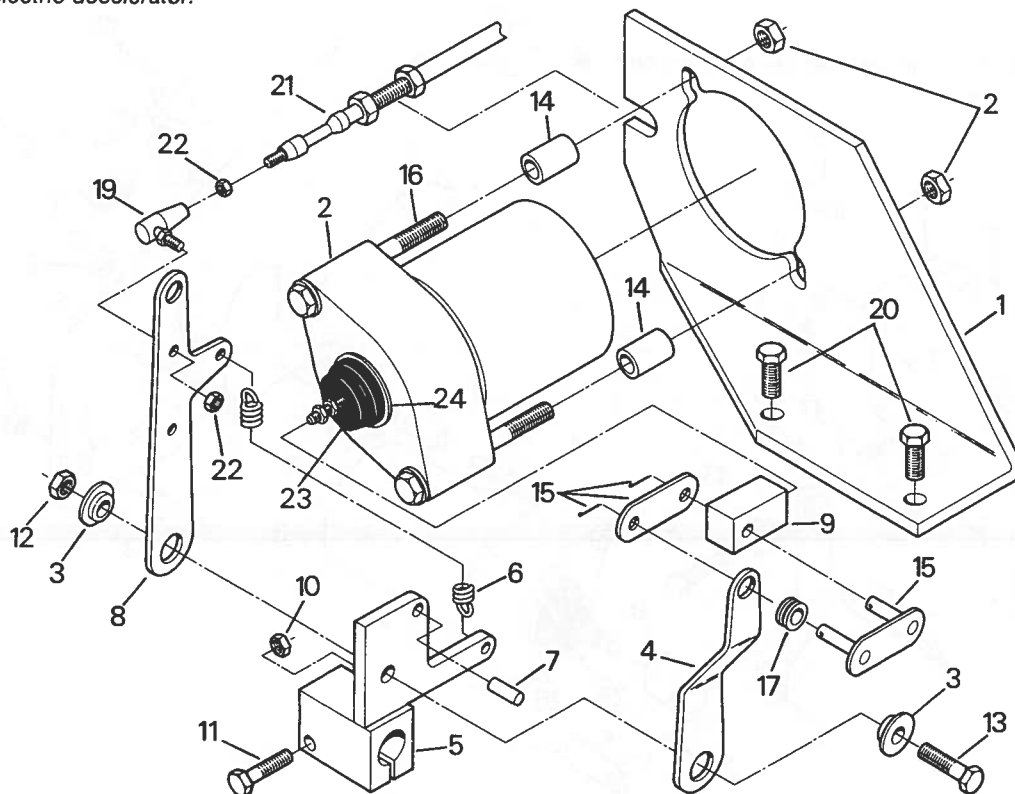
Electric Decelerator 855 Cummins Engine

Ref.	Part No.	Description	Qty.
1-21	35-1236T94	Kit, Electric Decelerator	1
1	02-3097T1	Bracket	1
2	19-683	Capscrew	2
3	02-3094T1	Spacer	2
4	19-188	Capscrew	2
5	02-2389T91	Solenoid (02-2389T1) (H) (incl 25 & 26)	1
6	19-234	Capscrew	1
7	02-3604T1	Link Connecting	1
8	02-3603T1	Block	1
9	02-4063T1	Lever, Decelerator (see Note)	1
10	11-016	Spring	1
11	02-4064T1	Lever, Throttle (see Note)	1
12	19-076	Nut	1

Ref.	Part No.	Description	Qty.
13	02-2386T2	Bushing (02-2386T1) (B)	2
14	19-077	Nut	1
15	02-3096T1	Collar, Pivot	1
16	19-002	Capscrew	1
17	19-151	Roll Pin	1
18	19-538	Washer	2
19	19-110	Washer	2
20	35-1276T91	Kit, Decelerator Wiring (see Page 10-27)	1
21	02-4062T1	Grommet	1
22	01-4481	Cable, Throttle	1
23	19-308	Jam Nut	2
24	06-1431	Ball Joint	1
25	02-6602T1	Boot	1
26	272861	Clamp	1

NOTE: These levers (Ref. 4 & 8) were revised when the grommet (Ref. 17) was added. When ordering a replacement for the early style Ref. 4 (without grommet) order Lever Kit P/N 35-1320T91 which contains the later style lever and one grommet.

NOTE: This kit is used only for models not factor equipped with the electric decelerator.



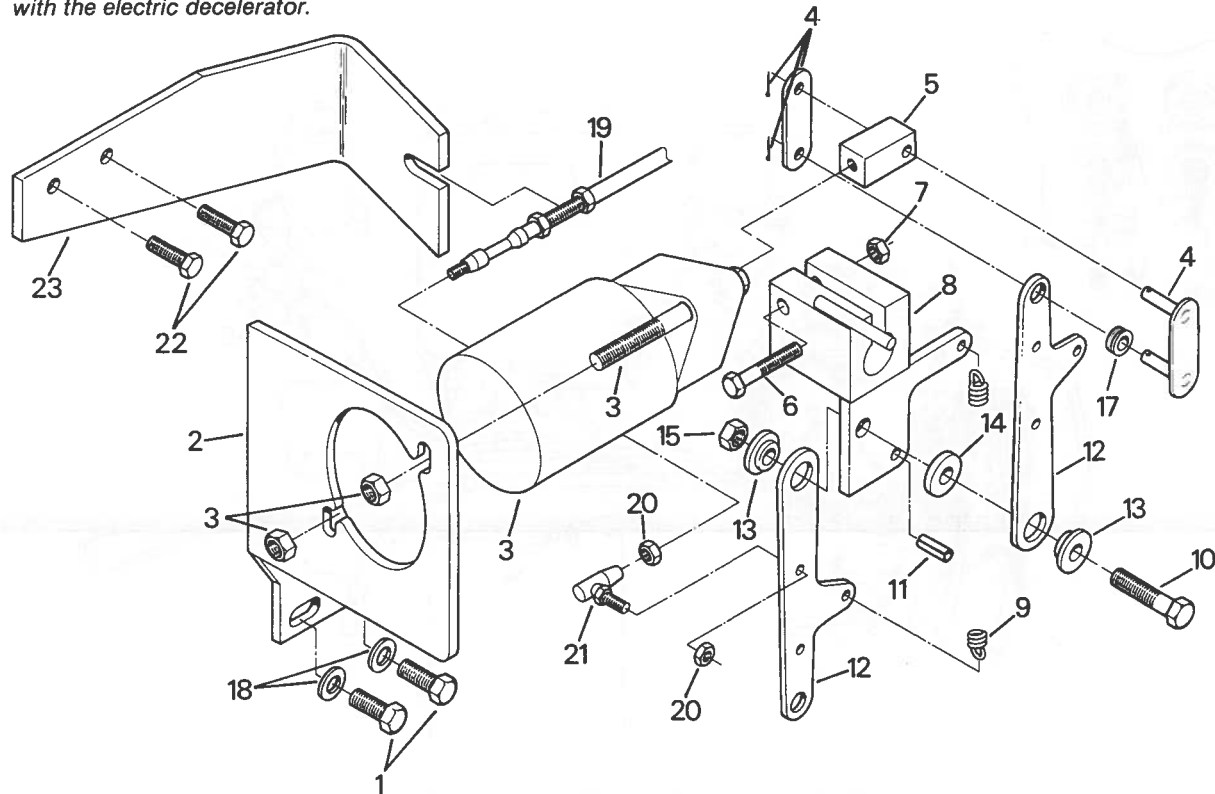
Electric Decelerator 903 Cummins Engines

Ref.	Part No.	Description	Qty.
1-18	351233T94	Kit, Electric Decelerator	1
1	02-2384T1	Bracket, Throttle	1
2	02-2389T91	Solenoid (02-2389T1) (H) (incl 23 & 24)	1
3	02-2386T2	Bushing (02-2386T1) (B)	2
4	02-4063T1	Lever, Decelerator (see Note)	1
5	02-2387T1	Collar, Pivot	1
6	11-016	Spring	1
7	19-151	Roll Pin	1
8	02-4064T1	Lever, Throttle (see Note)	1
9	02-3603T1	Block	1
10	19-076	Nut	1
11	19-002	Capscrew	1

Ref.	Part No.	Description	Qty.
12	19-077	Nut	1
13	19-234	Capscrew	1
14	04-118	Spacer	2
15	02-3604T1	Link, Connecting	1
16	19-534	Capscrew	2
17	02-4062T1	Grommet	1
18	35-1276T91	Kit, Decelerator Wiring (see Page 10-27)	1
19	06-1431	Ball Joint	1
20	19-679	Capscrew	2
21	29-058	Cable, Throttle	1
22	19-308	Jam Nut	2
23	02-6602T1	Boot	1
24	272861	Clamp	1

NOTE: This lever (Ref. 12) was revised when the grommet (Ref. 17) was added. When ordering a replacement for the early style Ref. 12 (Decelerator side - without grommet) order Lever Kit P/N 35-1321T91 which contains one later style lever and one grommet.

NOTE: This kit is used only for models not factory equipped with the electric decelerator.

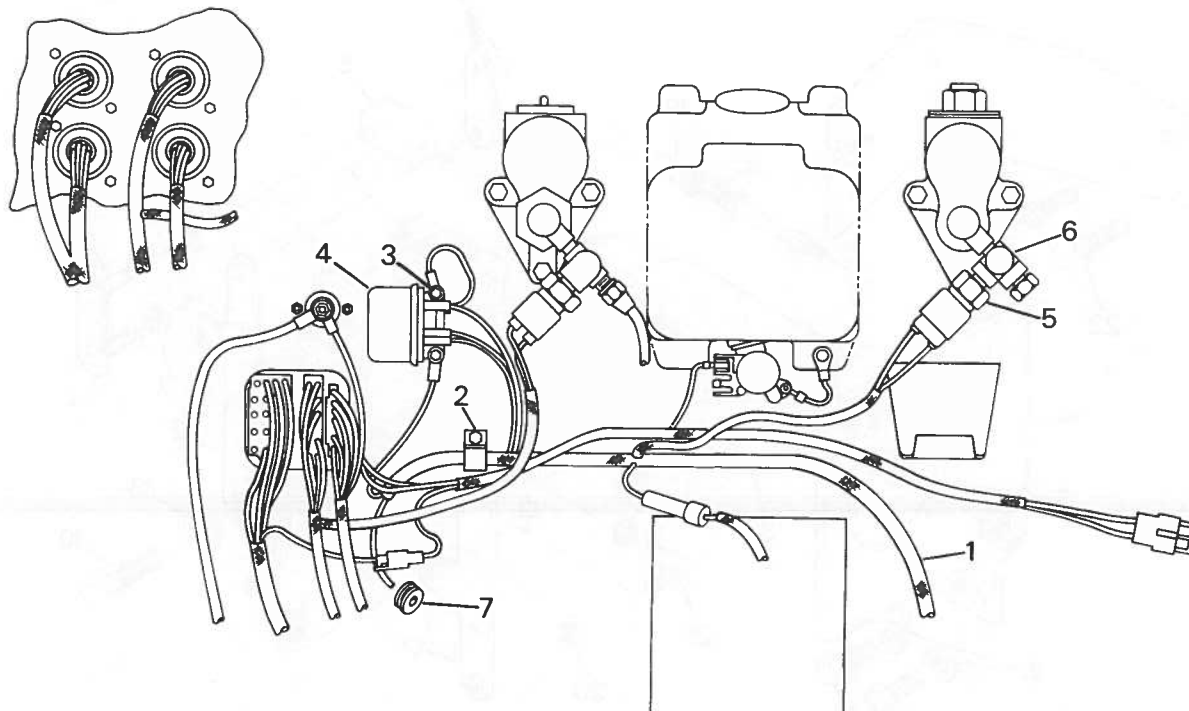


Electric Decelerator 3406 Cat Engine

Ref.	Part No.	Description	Qty.
1-8	35-1234T94	Kit, Electric Decelerator	1
1	19-006	Capscrew	2
2	02-3089T1	Bracket, Decelerator	1
3	02-2389T91	Solenoid (02-2389T1) (H) (incl 24 & 25)	1
4	02-3604T1	Link, Connecting	1
5	02-3603T1	Block	1
6	19-550	Capscrew	1
7	19-076	Nut	1
8	02-3090T1	Collar, Pivot	1
9	11-016	Spring	1
10	19-008	Capscrew	1
11	19-151	Roll Pin	1
12	02-4064T1	Lever, Throttle (see Note)	2

Ref.	Part No.	Description	Qty.
13	02-2386T2	Bushing (02-2386T1) (B)	2
14	02-3091T1	Spacer	1
15	19-077	Nut	1
16	35-1276T91	Kit Declerator Wiring (see Page 10-27)	1
17	02-4062T1	Grommet	1
18	19-700	Washer	2
19	29-058	Cable, Throttle	1
20	19-308	Jam Nut	2
21	06-1431	Ball Joint	1
22	19-001	Capscrew	2
23	04-1018	Bracket, Cable	1
24	02-6602T1	Boot (on rear of 3)	1
25	272861	Clamp (on rear of 3)	1

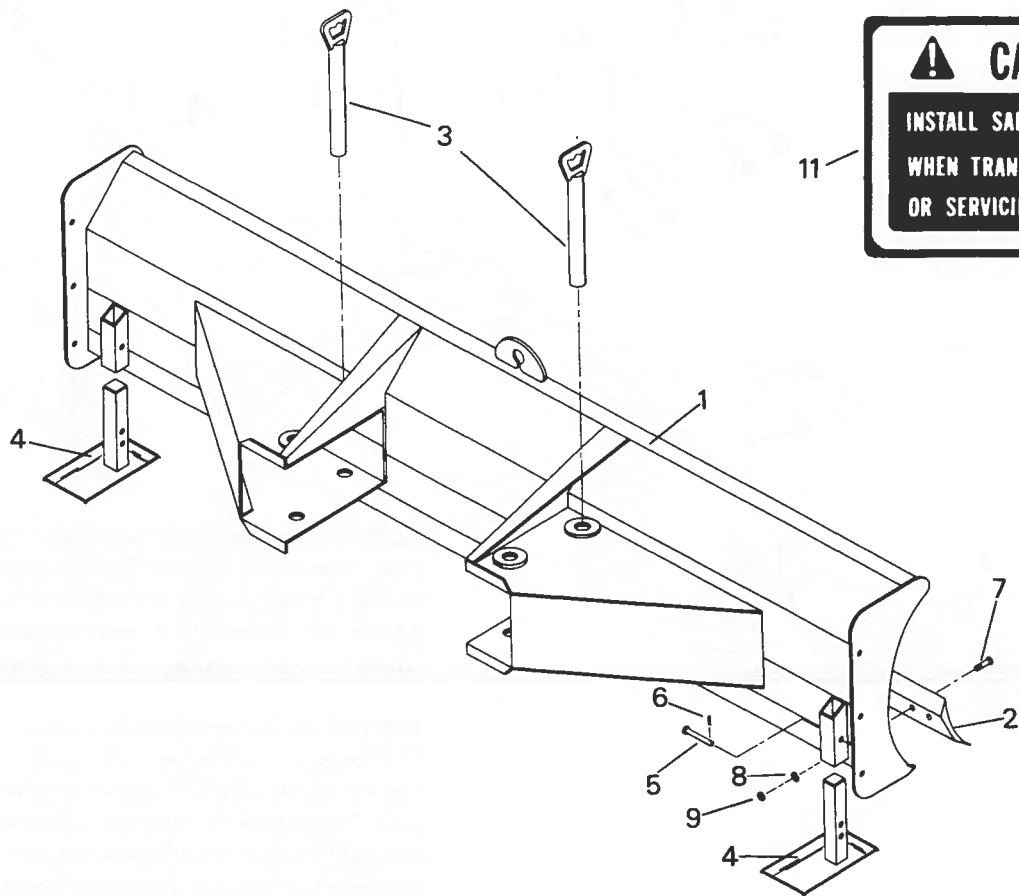
NOTE: Wire Harness P/N 20-1208T1 is used only on early models with the slave solenoid (P/N 06-1496) mounted on the starter. The later models with the slave solenoid mounted on the front of the cab use Wire Harness P/N 20-1214T1 which is not included in the kit.



Electric Decelerator Wiring

Ref.	Part No.	Description	Qty.
1-7	35-1276T91	Kit, Decelerator Wiring (includes 20-1208T1 Wire Harness)	1
1	20-1208T1	Wire Harness, Decelerator (included in kit)	1
	20-1214T1	Wire Harness, Decelerator (see Note)	

Ref.	Part No.	Description	Qty.
2	32-303	Clip	1
3	19-958	Screw, Tapping, 1/4 x 3/4 UNC	2
4	01-3861	Relay	1
5	22-729	Switch	1
6	31-1353	Tee	1
7	22-475	Grommet	1



CAUTION

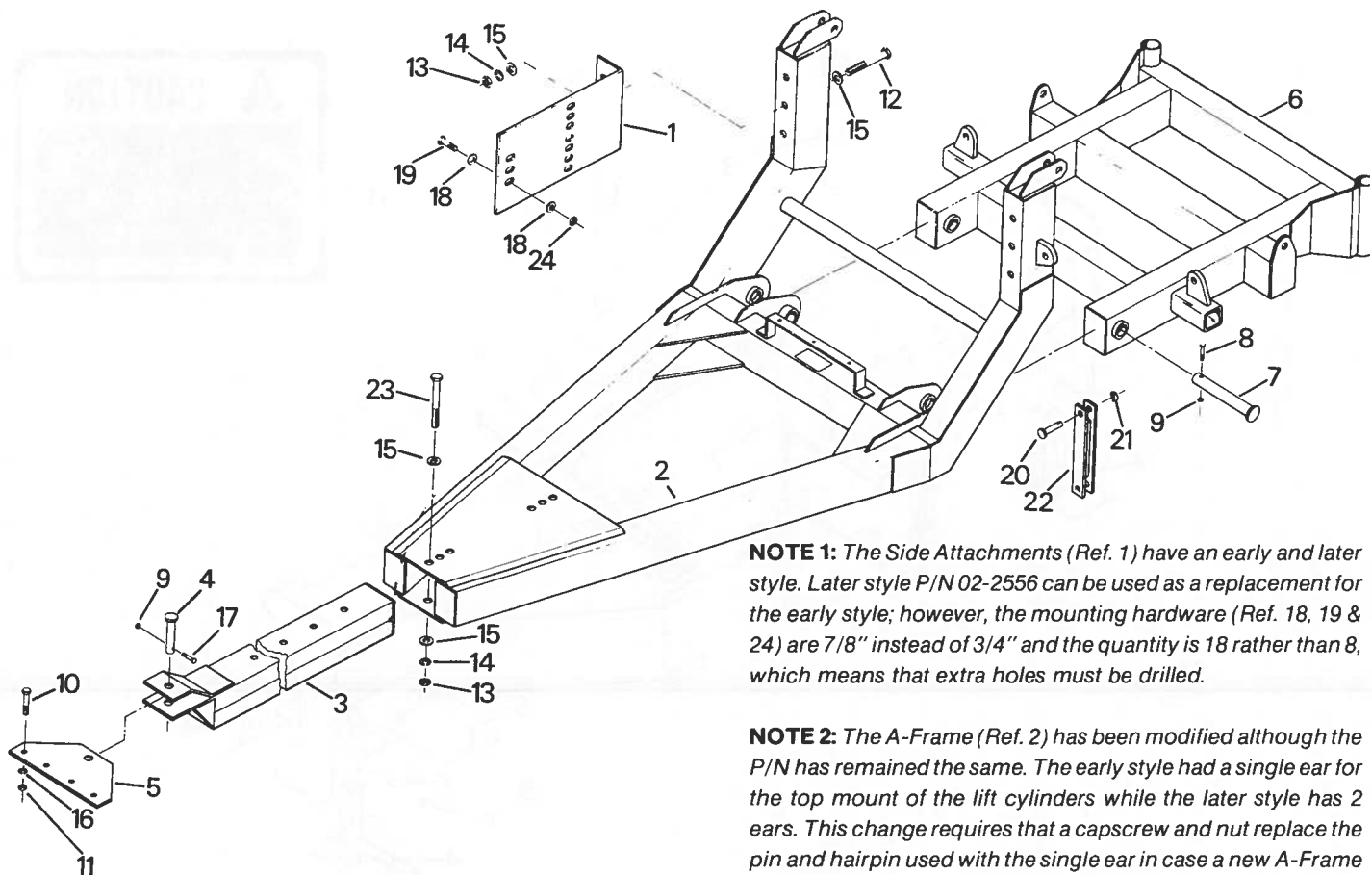
INSTALL SAFETY LINKS
WHEN TRANSPORTING
OR SERVICING DOZER.

Utility blade Assembly

Model 602 & 605 (Manual Angle)

Ref.	Part No.	Description	Qty.
1	01-6819T91	Blade Assy (12')	1
	01-9156T91	Blade Assy (14')	
	NAP	(Blade Assy incl 2, 7, 8 & 9)	
	38-842T1	Blade (12') (used w/Shoe 38-849) (see Note)	1
2	01-8771T1	Blade (14')	
	38-841	Cutting Edge (12')	2
	01-9198	Cutting Edge (14')	
3	38-850	Blade Pin	2
4	38-849	Shoe (3" sq tube)	2
5		(see Note)	
	01-9414	Shoe (4" sq tube)	
	19-934	Clevis Pin (used w/Shoe 38-849)	2
	19-5567	Clevis Pin (used w/Shoe 01-9414 on early models)	
	19-414	Capscrew, 1 NF x 6 (used w/Shoe 01-9414 on later models)	

Ref.	Part No.	Description	Qty.
6	19-5399	Hair Pin (used w/ Clevis Pin 19-934 & 19-5567)	2
	19-098	Nut, 1 NF (used w/ Capscrew 19-414)	2
7	19-5397	Plow Bolt, 5/8 NC x 1-3/4 (qty 18 on 14' Blade)	16
8	19-120	Lock Washer, 5/8 (qty 18 on 14' Blade)	16
9	451411	Nut, 5/8 NC (qty 18 on 14' Blade)	16
10	26-238	Decal, Steiger (Small)	4
11	01-6672	Decal, Dozer Safety	2



NOTE 1: The Side Attachments (Ref. 1) have an early and later style. Later style P/N 02-2556 can be used as a replacement for the early style; however, the mounting hardware (Ref. 18, 19 & 24) are 7/8" instead of 3/4" and the quantity is 18 rather than 8, which means that extra holes must be drilled.

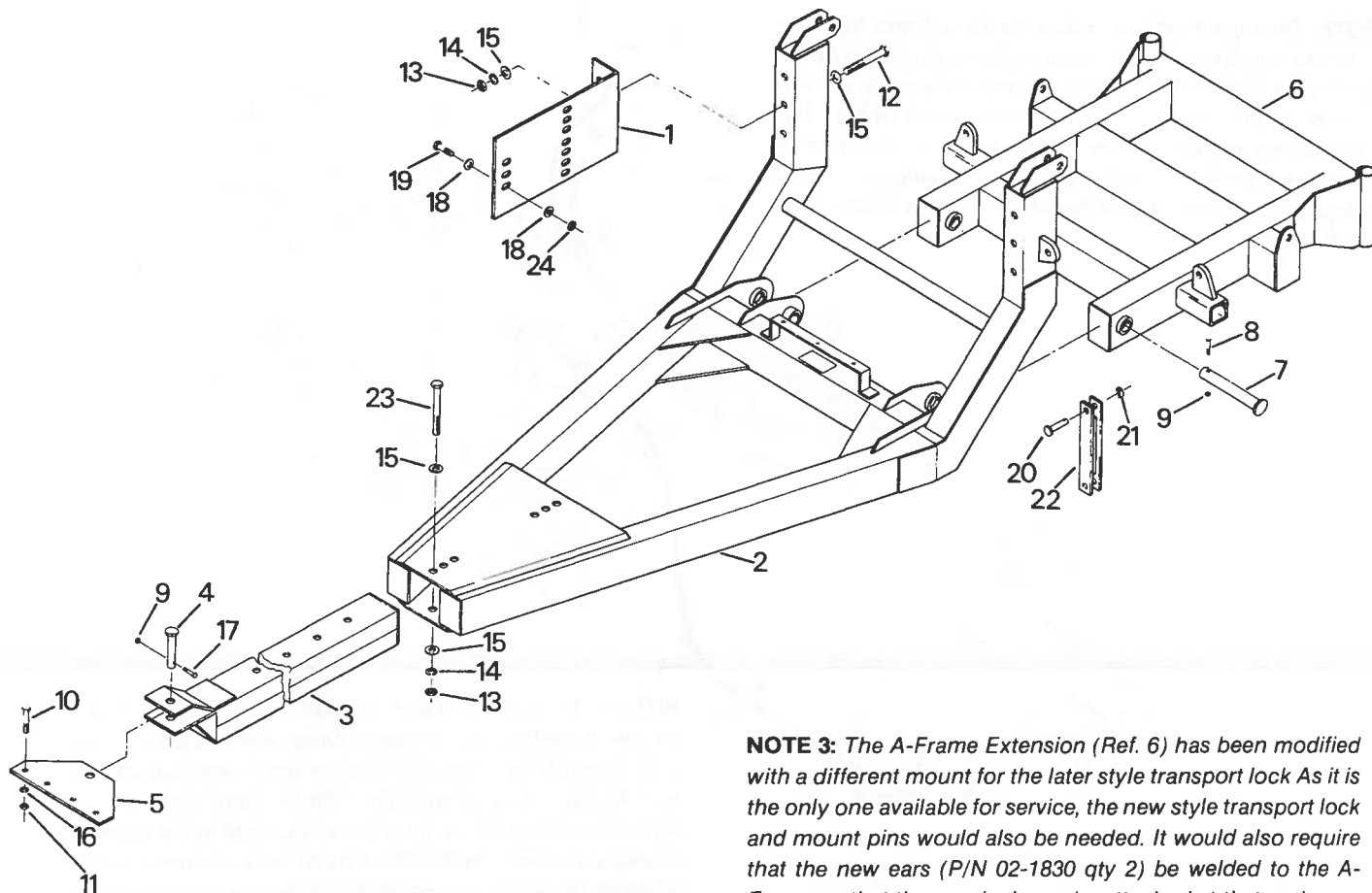
NOTE 2: The A-Frame (Ref. 2) has been modified although the P/N has remained the same. The early style had a single ear for the top mount of the lift cylinders while the later style has 2 ears. This change requires that a capscrew and nut replace the pin and hairpin used with the single ear in case a new A-Frame is needed. It also had a different mount ear for the transport lock. See the following page for the different capscrews or pins.

Utility Blade Frame

Model 602 & 605 (manual angle)

Ref.	Part No.	Description	Qty.
1	01-5911	Side Attachment (Right) (Early Style) (see Note 1)	1
	01-5916	Side Attachment (Left) (Early Style)	1
	02-2556	Side Attachment (Right & Left) (Later Style)	2
2	38-845	A-Frame (see Note 2)	1
3	02-2013	Drawbar	1
4	38-859	Drawbar Pin	1
5	38-847	Hinge Plate	1
6	38-848T1	Extension, A-Frame (see Note 3)	1
7	38-851	Pivot Pin	1
8	19-279	Capscrew, 3/8 NC x 3	2
9	19-087	Lock Nut, 3/8 NC	3
10	19-1087	Capscrew, 3/4 NC x 3	4
11	19-832	Nut, 3/4 NC	4
12	19-1120	Capscrew, 1 NC x 8	6
13	19-610	Nut, 1 NC	8
14	19-122	Lock Washer, 1 (used on early models only)	8

Ref.	Part No.	Description	Qty.
15	19-407	Washer, 1-1/8	16
16	19-121	Lock Washer, 3/4	4
17	19-021	Capscrew, 3/8 NC x 2	1
18	19-121	Lock Washer, 3/4 (see Note 1)	8
	19-2975	Washer, 7/8	36
19	19-063	Capscrew, 3/4 NC x 2-1/2 (see Note 1)	8
	19-420	Capscrew, 7/8 NC x 3	18
20	19-2692	Pin (used w/Transport Link 01-2571)	2
	01-7803	Pin (used w/Transport Link 01-7800)	
21	19-5400	Hairpin (used w/Pin 19-2692)	2
	19-345	Klick Pin (used w/Pin 01-7803)	



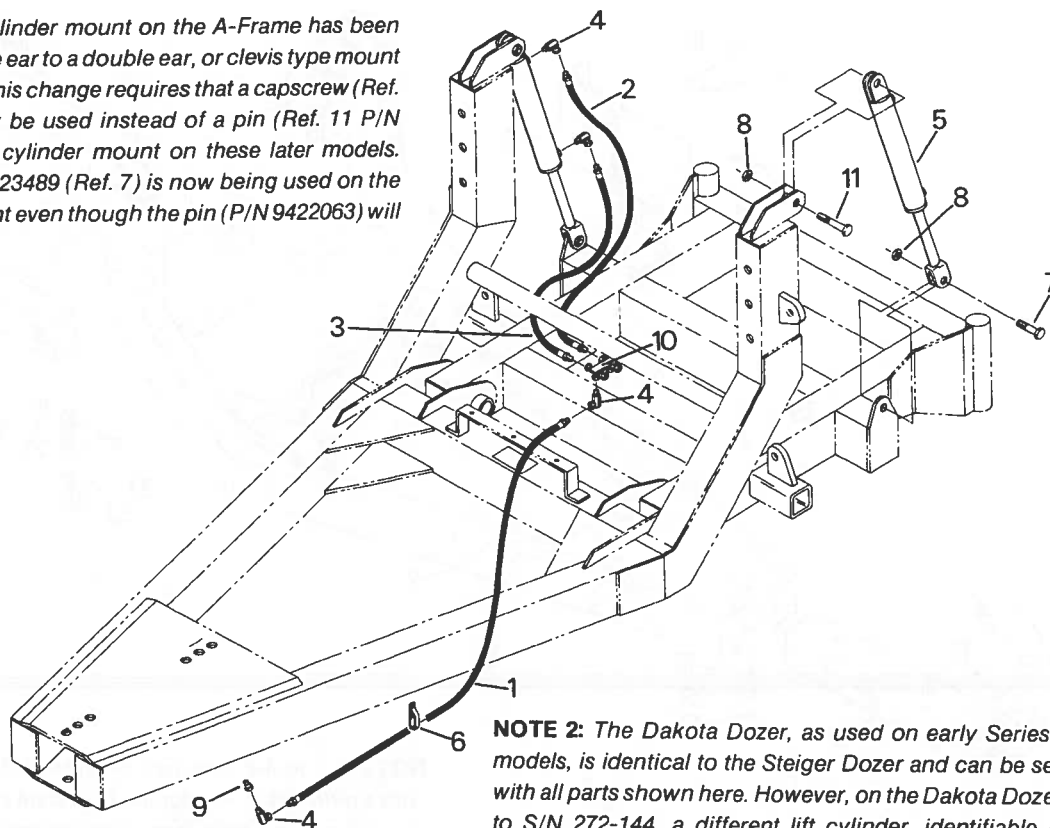
NOTE 3: The A-Frame Extension (Ref. 6) has been modified with a different mount for the later style transport lock. As it is the only one available for service, the new style transport lock and mount pins would also be needed. It would also require that the new ears (P/N 02-1830 qty 2) be welded to the A-Frame so that the new lock can be attached at that end.

Utility Blade Frame

Model 602 & 605 (manual angle)

Ref.	Part No.	Description	Qty.	Ref.	Part No.	Description	Qty.
22	01-2571	Link Transport (single strap type with 1/2" holes) (Early Style)	2	23	19-1120	Capscrew, 1 NC x 8 (Early Style)	2
	01-7800	Link, Transport (double strap type with 1-1/2" holes) (Later Style - shown above)			19-841	Capscrew, 1 NC x 9 (Later Style)	
				24	19-832	Nut, 3/4 NC (see Note 1)	8
					19-457	Nut, 7/8 NC	18

NOTE: The top lift cylinder mount on the A-Frame has been changed from a single ear to a double ear, or clevis type mount on the later models. This change requires that a capscrew (Ref. 11 P/N 19-5404) now be used instead of a pin (Ref. 11 P/N 9422063) for the top cylinder mount on these later models. Also, capscrew P/N 223489 (Ref. 7) is now being used on the bottom cylinder mount even though the pin (P/N 9422063) will still fit there.



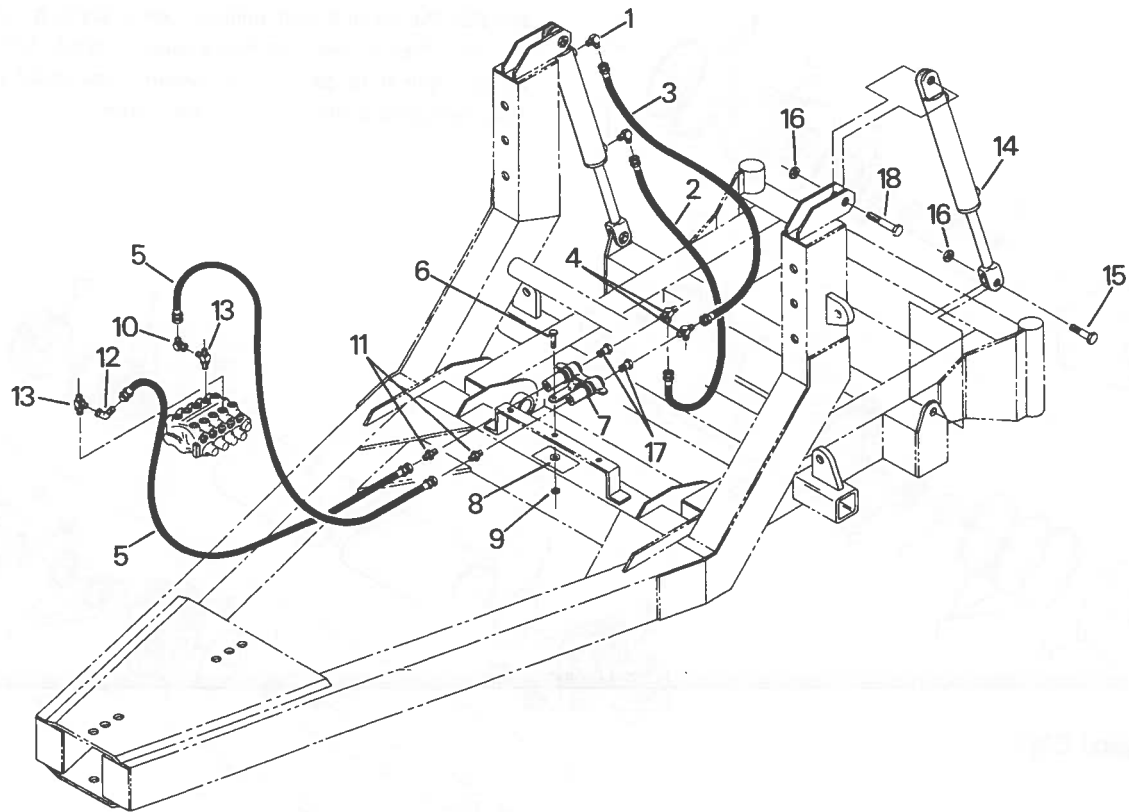
NOTE 2: The Dakota Dozer, as used on early Series III ST models, is identical to the Steiger Dozer and can be serviced with all parts shown here. However, on the Dakota Dozer prior to S/N 272-144, a different lift cylinder, identifiable by the screwed-in fitting on the gland end as opposed to the welded-on part, was used. P/N 38-852 is the complete cylinder and P/N 38-865 is the seal kit. If a complete cylinder is needed, order the latest cylinder P/N 01-5926.

Utility Blade Hydraulics (Early Style)

model 602 & 605 (manual angle)

Ref.	Part No.	Description	Qty.
1	38-861	Hose	2
2	38-862	Hose	2
3	32-222	Hose	2
4	31-381	Elbow	8
5	01-5926	Hydraulic Lift Cylinder (see Note 2)	2
6	31-1021	Clamp	2
7	223489	Capscrew, 1 NC x 3-1/2 (replaces Pin 9422063 on later models)	2
	9422063	Pin (see Note 1)	2

Ref.	Part No.	Description	Qty.
8	19-375	Lock Nut, 1 NC (qty 1 on early models)	4
	38-854	Hairpin (used w/Pin 9422063 on early models)	2
9	18-1653	Male Tip	2
	18-1729	Dust Cap (for Male Tip)	2
10	01-5928	Coupler	1
11	19-5404	Capscrew, 1 NC x 5-1/2	2
	9422063	Pin (see Note 1)	2
	19-135	Ty Rap (not shown)	4

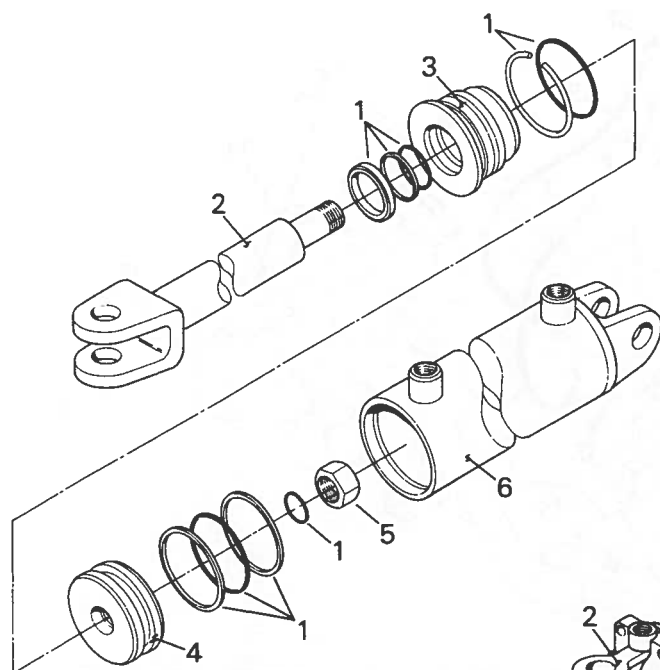


Utility Blade Hydraulics (Later Style)

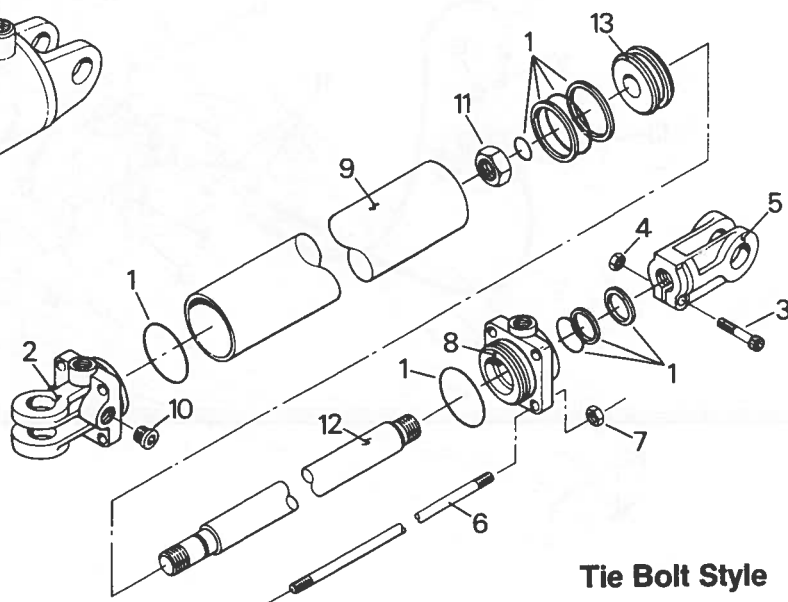
model 602 & 605 (manual angle)

Ref.	Part No.	Description	Qty.
1	31-321	Elbow	4
2	18-544	Hose	2
3	31-1234	Hose	2
4	31-322	Tee	2
5	31-1539	Hose	2
6	19-045	Capscrew, 1/2 NC x 1-1/2	1
7	01-7135	Hydraulic Coupler	1
8	19-961	Washer	2
9	19-082	Lock Nut, 1/2 NC	1
10	31-619	Elbow	1

Ref.	Part No.	Description	Qty.
11	31-330	Fitting (10)	2
12	18-574	Elbow	1
13	31-507	Tee (8)	2
14	01-5926	Hydraulic Lift Cylinder	2
15	223489	Capscrew, 1 NC x 3-1/2	2
16	19-375	Lock Nut, 1 NC	4
17	01-7141	Male Tip	2
	01-7142	Dust Cap (for Male Tip - not shown)	2
18	19-5404	Capscrew, 1 NC x 5-1/2	2



Standard Style



Tie Bolt Style

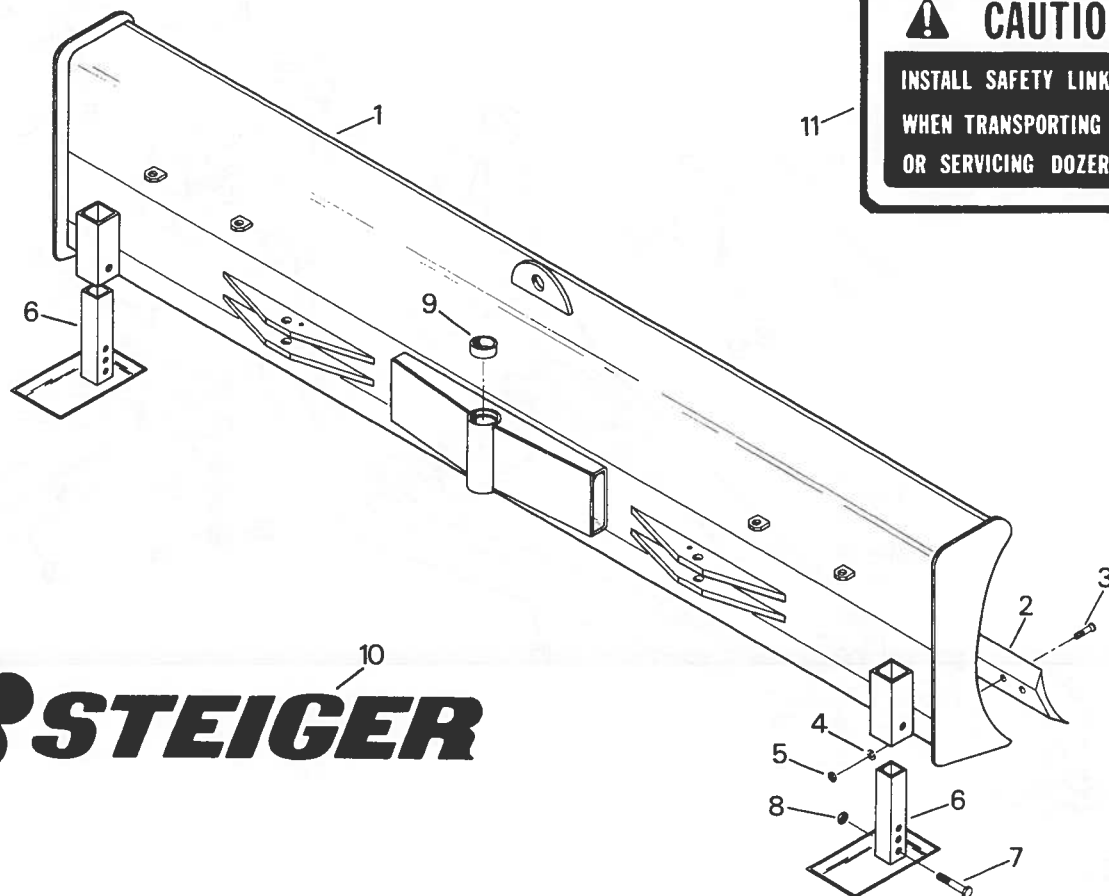
NOTE: The tie bolt style cylinder assembly is an alternate lift cylinder that is used on some manual angle Utility Blades. Either style may be used; however, they must be used in matched pairs and cannot be intermixed.

Lift Cylinders

model 602 & 605 Utility Blade (manual angle)

Ref.	Part No.	Description	Qty.
1-6	01-5926	Cylinder Assy (standard) (see Note)	1
1	50-1100T91	Seal Kit	AR
2	50-1098T1	Rod	1
3	50-1095T1	Rod Guide	1
4	50-1096T1	Piston	1
5	50-1099T1	Lock Nut	1
6	50-1097T1	Shell	1

Ref.	Part No.	Description	Qty.
1-13	02-4398T91	Cylinder Assy (Tie Bolt Style) (see Note)	1
1	02-4628T1	Seal Kit	AR
2	02-4629T1	Yoke, Base	1
3	02-4630T1	Capscrew	1
4	02-4631T1	Nut	1
5	02-4632T1	Yoke, Rod End	1
6	02-4633T1	Stud	4
7	02-4634T1	Nut	8
8	02-4635T1	End Cap	1
9	02-4636T1	Shell	1
10	02-4637T1	Plug	1
11	02-4638T1	Lock Nut	1
12	02-4639T1	Rod	1
13	02-4640T1	Piston	1

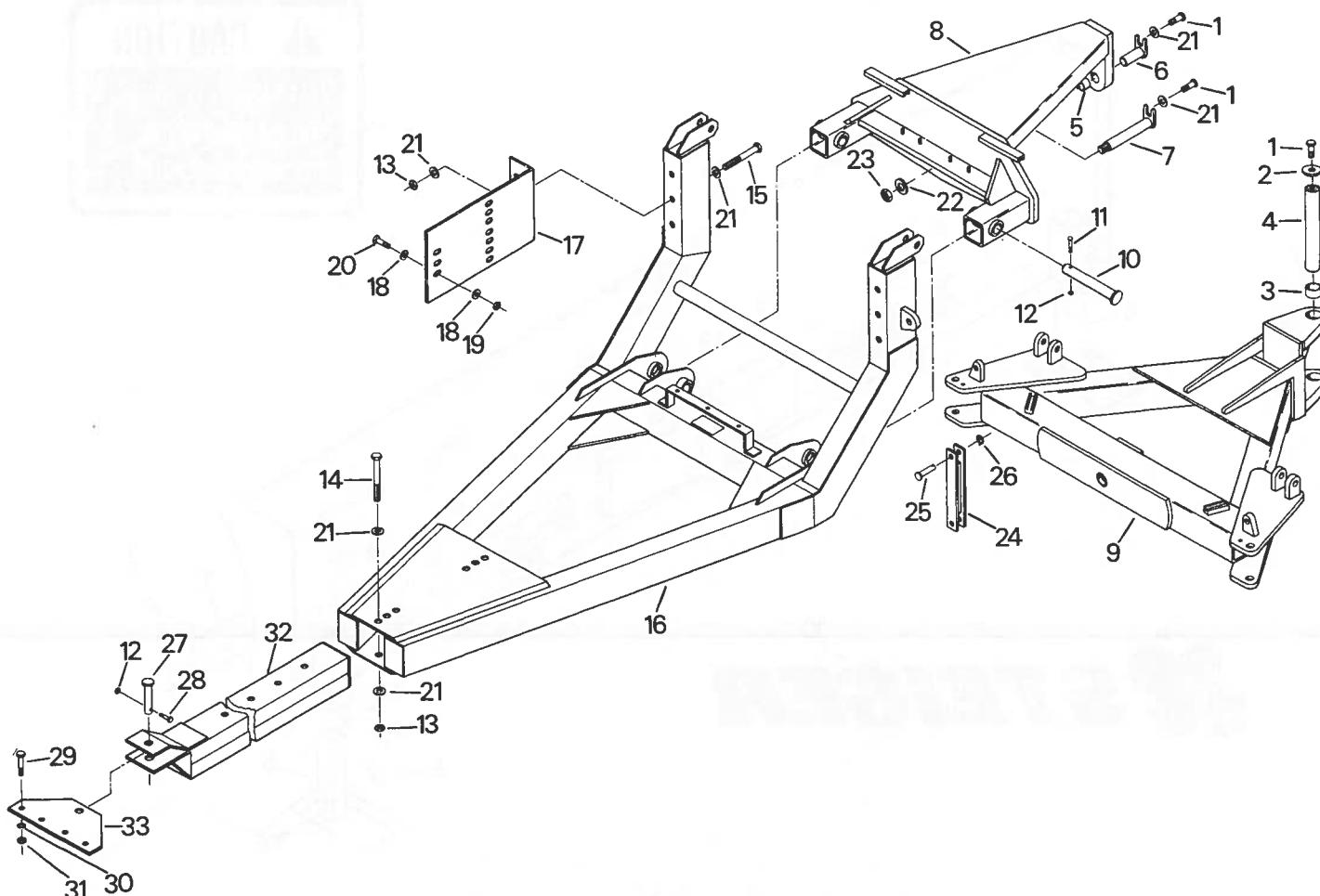


STEIGER

Utility Blade Assembly model 615 & 617 (Hyd Tilt-Angle)

Ref.	Part No.	Description	Qty.
1	02-1134	Blade (12')	1
	02-1135	Blade (14')	
2	38-841	Cutting Edge (12')	2
	01-9198	Cutting Edge (14')	
3	19-5397	Plow Bolt, 5/8 NC x 1-3/4 (qty 18 on 14' Blade)	16
4	19-120	Lock Washer, 5/8 (qty 18 on 14' Blade)	16

Ref.	Part No.	Description	Qty.
5	451411	Nut, 5/8 NC (qty 18 on 14' Blade)	16
6	01-9414	Shoe	2
7	19-414	Capscrew, 1 NF x 6	2
8	19-098	Nut, 1 NF	2
9	01-8311	Bushing	2
10	26-238	Decal, Steiger (Small)	4
11	01-6672	Decal, Dozer Safety	2

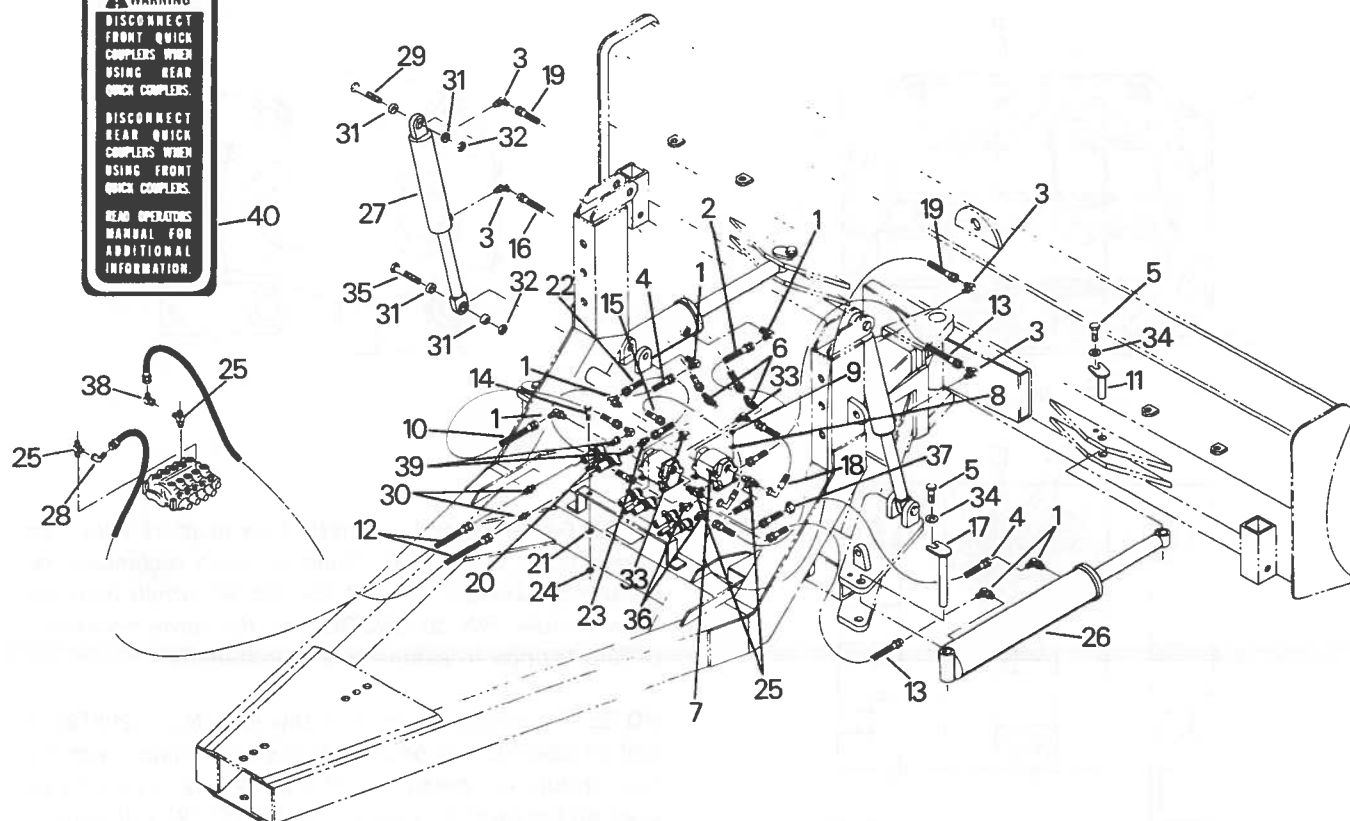
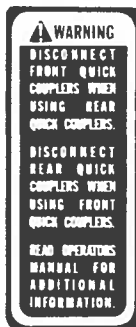


Utility Blade Frame

model 615 & 617 (Hyd Tilt-Angle)

Ref.	Part No.	Description	Qty.
1	19-5490	Capscrew, 1 NC x 1-1/2	4
2	19-5587	Washer	2
3	01-8311	Bushing	2
4	01-8862	Pin	1
5	01-8847	Bushing	1
6	01-8857	Pin	1
7	01-8860	Pin	1
8	01-8863T1	Hinge, Upper	1
9	01-8864	Hinge, Lower	1
10	38-851	Pivot Pin	2
11	19-279	Capscrew, 3/8 NC x 3	2
12	19-087	Lock Nut, 3/8 NC	3
13	19-610	Nut, 1 NC	8
14	19-841	Capscrew, 1 x 9 NC	2
15	19-1120	Capscrew, 1 x 8 NC	6
16	38-845	A-Frame	1
17	02-2556	Side Attachment	2

Ref.	Part No.	Description	Qty.
18	19-2975	Washer, 7/8	36
19	19-457	Nut, 7/8 NC	18
20	19-420	Capscrew, 7/8 NC x 3	18
21	19-407	Washer, 1-1/8	18
22	19-114	Washer, 1-1/2	1
23	19-835	Nut, 1-1/2 NC	1
24	01-7800	Link, Transport	2
25	01-7803	Pin	4
26	19-345	Pin, Klick	4
27	19-5567	Drawbar Pin	1
28	19-021	Capscrew, 3/8 NC x 2	1
29	19-1087	Capscrew, 2/3 NC x 3	4
30	19-121	Lock Washer, 3/4	4
31	19-832	Nut, 3/4 NC	4
32	02-2013	Drawbar	1
33	38-847	Hinge Plate	1

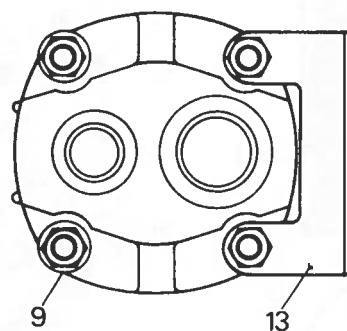
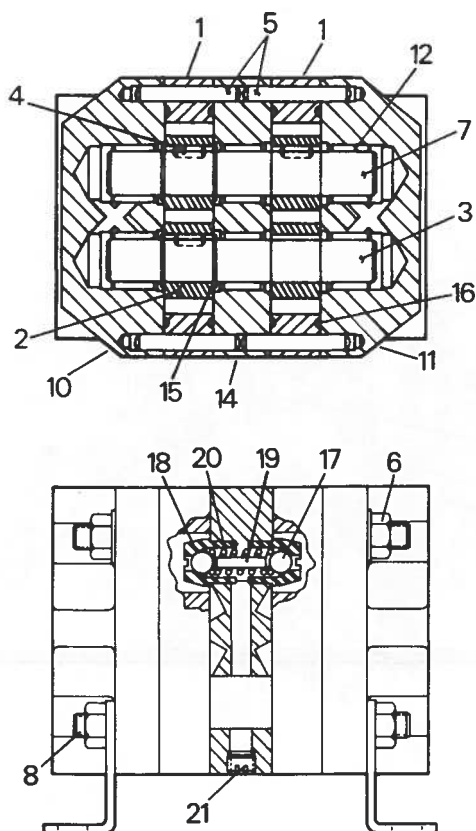


Utility Blade Hydraulics

model 615 & 617 (Hyd Tilt-Angle)

Ref.	Part No.	Description	Qty.
1	31-325	Elbow (Pipe Threads)	6
	31-1434	Elbow (12) (O-Ring Threads)	
2	31-1433	Hose Assembly	1
3	31-367	Elbow (10)	4
4	31-1252	Hose	2
5	19-5490	Capscrew, 1 NC x 1-1/2	4
6	31-402	Elbow (Pipe Threads)	2
	31-323	Elbow (8) (O-Ring Threads)	
7	01-7733	Flow Divider (Pipe Ports)	2
	50-1295T92	Flow Divider (O-Ring Ports)	
		(see Note) (see Page 10-37)	
8	19-224	Washer, 3/8	4
9	19-087	Lock Nut, 3/8 NC	4
10	31-1440	Hose	1
11	01-8892	Pin	2
12	31-1539	Hose	6
13	31-1234	Hose	2
14	19-045	Capscrew, 1/2 NC x 1-1/2	3
15	31-1287	Hose	1
16	31-1253	Hose	1
17	01-8891	Pin	2
18	31-1441	Hose	1
19	32-151	Hose	2
20	01-7135	Hydraulic Coupler	3

Ref.	Part No.	Description	Qty.
21	19-961	Washer	6
22	32-150	Hose	1
23	31-363	Fitting	1
24	19-082	Lock Nut, 1/2 NC	3
25	31-322	Tee (Pipe Threads)	8
	31-507	Tee (8) (O-Ring Threads)	
26	01-8868	Hydraulic Cylinder	2
		(see Page 10-38)	
27	01-9676	Hydraulic Cylinder	2
		(see Page 10-38)	
28	18-574	Elbow	3
29	19-5404	Capscrew, 1 x 5-1/2 NC	2
30	31-330	Fitting (10)	6
31	01-8853	Spacer	8
32	19-375	Lock Nut, 1 NC	4
33	31-321	Elbow	3
34	19-407	Washer, 1-1/8	4
35	9430341	Capscrew, 1 NC x 6-1/2	2
36	31-322	Tee	2
37	31-1187	Clamp	8
38	31-619	Elbow	3
39	01-7141	Male Tip	6
	01-7142	Dust Cap (for Male Tip)	6
40	02-2401	Decal, Dozer	3



NOTE: On some early models, flow dividers with pipe thread ports were used. When ordering replacements, order Flow Divider Kit P/N 35-1326T92 which includes Flow Divider P/N 50-1295T92 and the three necessary O-Ring fittings to assure proper installation.

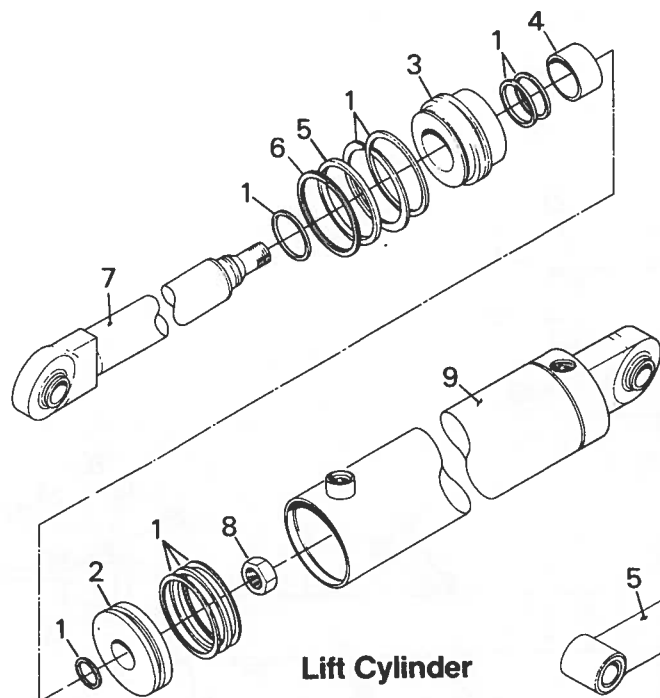
NOTE: The change from Flow Divider P/N 50-1295T91 to P/N 50-1295T92 will be a Code B supersession with the only stipulation being that P/N 50-1295T91 can only be used on the right side while P/N 50-1295T92 will work on either side.

Flow Divider

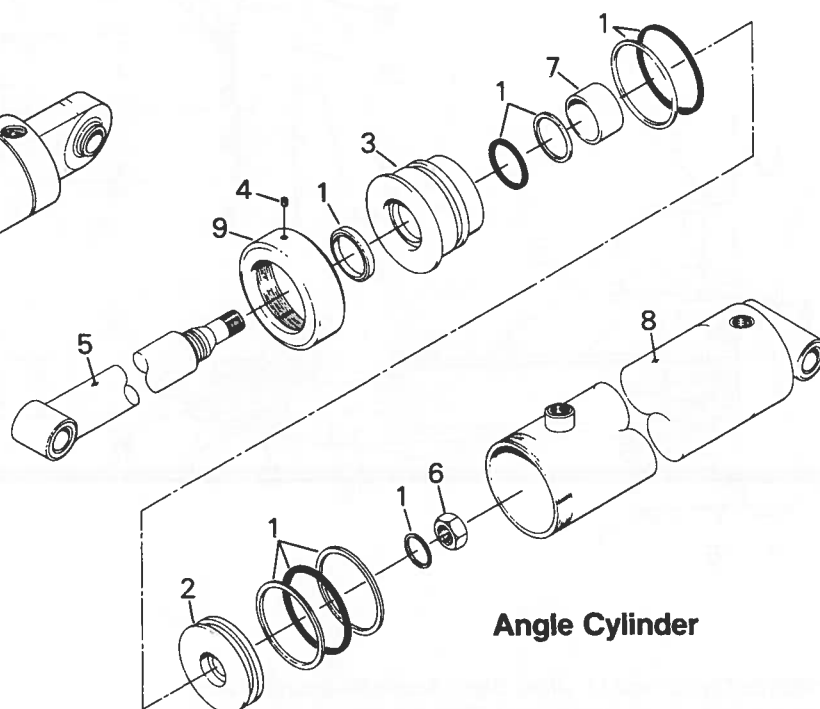
(For Hyd Tilt-Angle Utility Blade)

Ref.	Part No.	Description	Qty.
1-16	01-7733	Flow Divider Assembly (Pipe Ports)	1
	50-1295T91	Flow Divider Assembly (O-Ring Ports) (see Note)	
1-21	50-1295T92	Flow Divider Assembly (O-Ring Ports) (see Note)	1
1	02-3968T1	Case	2
2	02-3969T1	Gear	4
3	02-3970T1	Idler Shaft (used on P/N 01-7733 & 50-1295T91)	1
	02-3974T1	Idler Shaft (used on P/N 50-1295T92 only)	
4	02-3971T1	Dowel Key	3
5	02-3972T1	Dowel Pin	4
6	02-3973T1	Nut	8
7	02-3974T1	Idler Shaft	1
8	02-3975T1	Stud	4
9	02-3976T1	Washer	4

Ref.	Part No.	Description	Qty.
10	NSS	End Plate (Pipe Ports)	1
	NSS	End Plate (O-Ring Ports)	
11	NSS	End Plate (Pipe Ports)	1
	NSS	End Plate (O-Ring Ports)	
12	02-3977T1	Bearing	6
13	02-3978T1	Bracket, Mounting	2
14	02-3979T1	Plate, Spacer (used on P/N 01-7733 & 50-1295T91)	1
	02-4695T1	Plate, Spacer (used on P/N 50-1295T92 only)	
15	02-3980T1	Retaining Ring	4
16	02-3981T1	O-Ring	4
17	02-4663T1	Ball	2
18	02-4664T1	Retainer	2
19	02-4665T1	Guide	1
20	02-4666T1	Spring	1
21	02-4667T1	Set Screw	1



Lift Cylinder



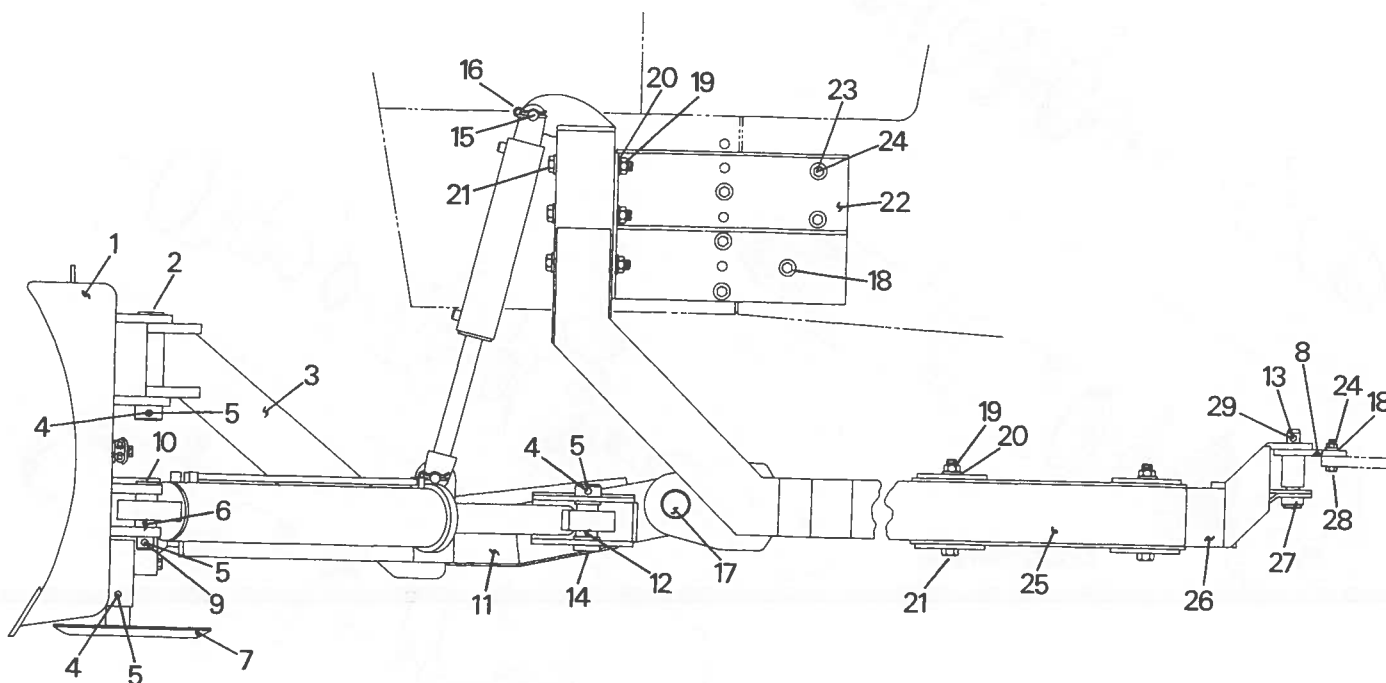
Angle Cylinder

Lift & Angle Cylinders

model 615 & 617 Utility Blade (Hyd Tilt-Angle)

Ref.	Part No.	Description	Qty.
1-9	01-9676	Lift Cylinder Assembly	1
1	02-4032T1	Seal Kit	AR
2	02-4033T1	Piston	1
3	02-4034T1	Rod Guide (includes Ref. 4)	1
4	NSS	Bushing	1
5	02-4035T1	Spacer	1
6	02-4036T1	Lock Ring	1
7	02-4037T1	Rod	1
8	19-271	Lock Nut	1
9	NSS	Shell	1

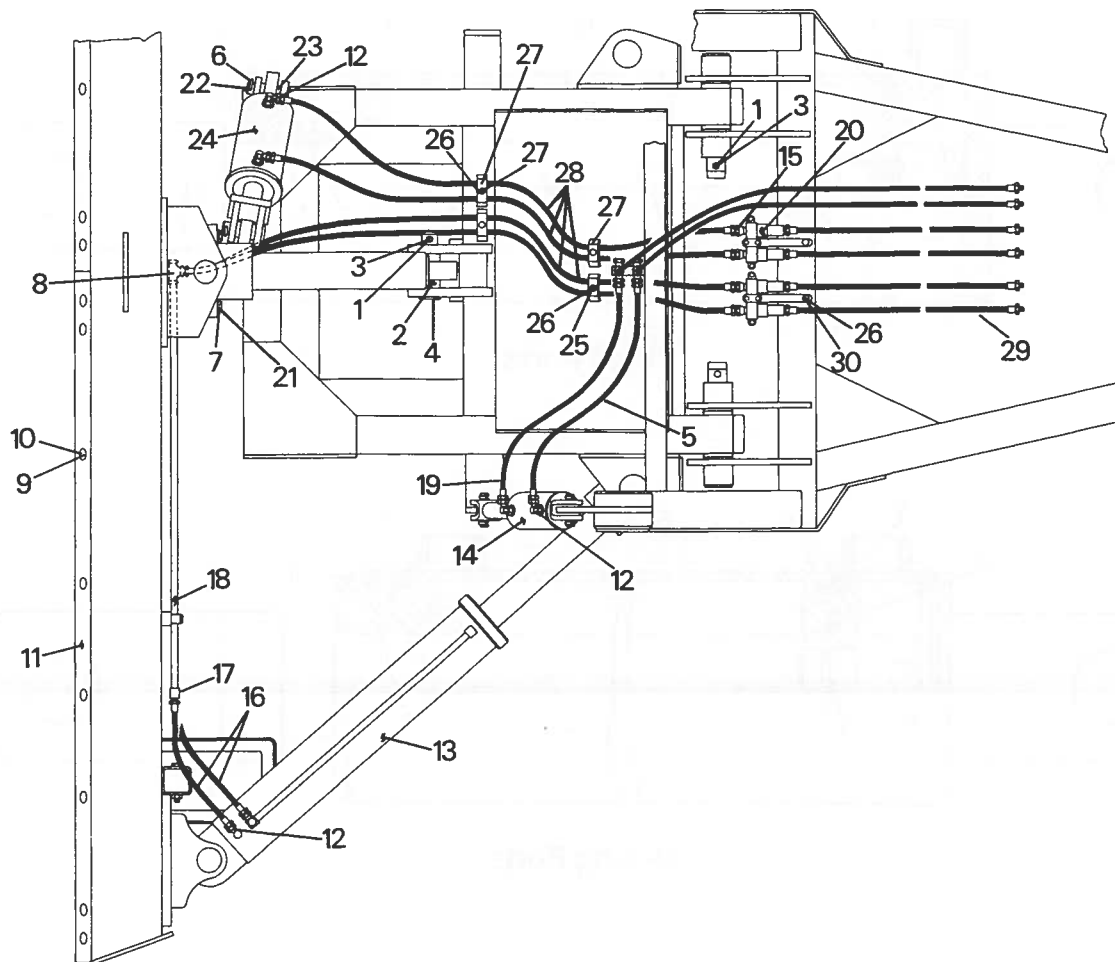
Ref.	Part No.	Description	Qty.
1-9	01-8868	Angle Cylinder Assembly	1
1	02-4038T1	Seal Kit	AR
2	02-4039T1	Piston	1
3	02-4040T1	Rod Guide (includes Ref. 7)	1
4	02-4041T1	Set Screw	1
5	02-4042T1	Rod	1
6	9421254	Lock Nut	1
7	NSS	Bushing	1
8	NSS	Shell	1
9	02-4043T1	Collar	1



***NOTE:** The 12' and 14' Utility Blade Assemblies contain all of the items shown on this and the following page.

Dakota Tilt-Angle Utility Blade & Frame

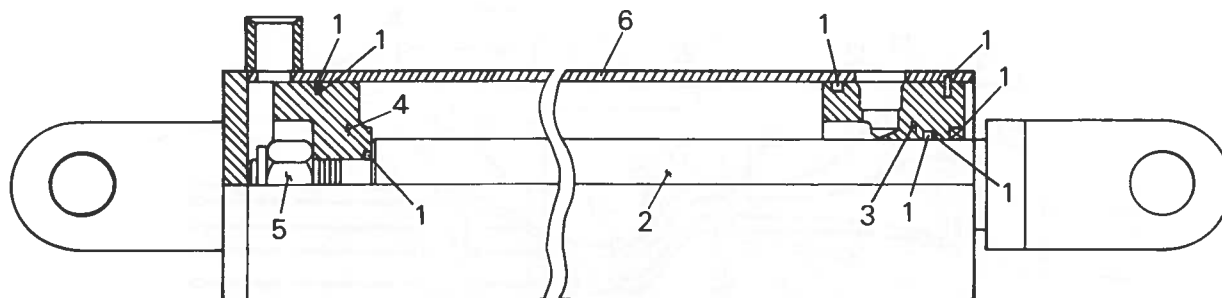
Ref.	Part No.	Description	Qty.	Ref.	Part No.	Description	Qty.
1	02-3570T91	Utility Blade Assy (12')*	1	15	02-3556T1	Pin	4
	02-4030T91	Utility Blade Assy (14')*		16	19-5399	Hairpin	8
	02-3270T1	Blade (12')	1	17	02-3289T1	Pin	2
	02-4028T1	Blade (14')		18	19-5523	Washer, 13/16	28
2	02-3269T1	Pin	1	19	19-375	Lock Nut, 1 NC	8
3	02-3268T1	Strut	1	20	19-714	Washer, 1-1/8	14
4	19-049	Capscrew, 1/2 NC x 3-1/2	5	21	19-842	Capscrew, 1 x 8 NC	8
5	19-082	Lock Nut, 1/2 NC	7	22	02-3565T1	Side Attachment (Left)	1
6	02-3274T1	Spacer	4		02-3566T1	Side Attachment (Right)	
7	02-3271T1	Shoe	2	23	19-067	Capscrew, 3/4 NC x 2-1/4	12
8	02-3563T1	Hitch Plate	1	24	19-085	Lock Nut, 3/4 NC	16
9	19-047	Capscrew, 1/2 NC x 2-1/2	2	25	02-3567T1	Frame	1
10	02-3273T1	Pin	2	26	02-3568T1	Hitch Pole	1
11	02-3564T1	Frame	1	27	02-3569T1	Pin	1
12	02-3555T1	Spacer	4	28	19-063	Capscrew, 3/4 NC x 2-1/2	4
13	19-087	Lock Nut, 3/8 NC	1	29	19-020	Capscrew, 3/8 NC x 1-3/4	1
14	02-3557T1	Pin	2				



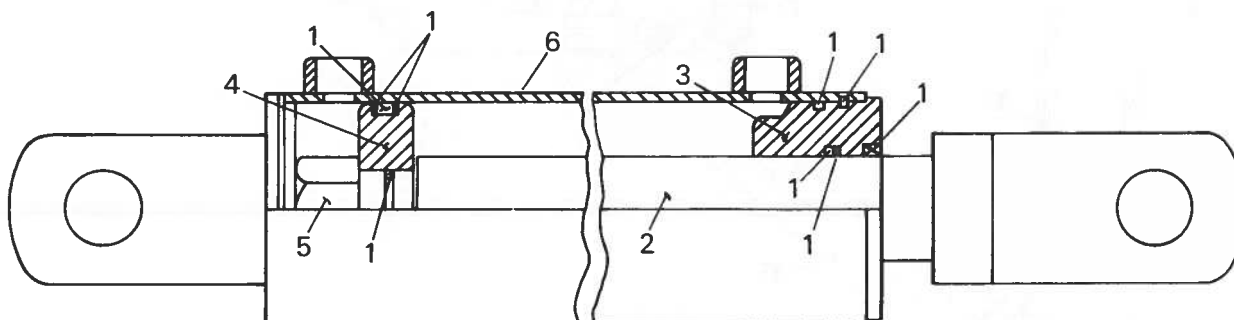
Dakota Tilt-Angle Utility Blade Hyd

Ref.	Part No.	Description	Qty.
1	19-082	Lock Nut, 1/2 NC	3
2	02-3274T1	Spacer	2
3	19-047	Capscrew, 1/2 NC x 2-1/2	3
4	02-3273T1	Pin	1
5	31-1111	Hose	2
6	19-5399	Hairpin	2
7	19-067	Capscrew, 3/4 NC x 2-1/4	4
8	31-135	Tee	2
9	451411	Nut, 5/8 NC (qty 18 on 14' Blade)	16
10	19-5397	Plow Bolt, 5/8 NC x 1-3/4 (qty 18 on 14' Blade)	16
11	38-841	Cutting Edge (12')	2
	01-9198	Cutting Edge (14')	
12	31-381	Elbow (Early Style - Pipe Ports)	10
	31-385	Elbow (8) (Later Style - O-Ring Ports)	
13	02-3529T91	Hydraulic Cylinder (Early Style - Pipe Ports)	2
	02-3275T91	Hydraulic Cylinder (Later Style - O-Ring Ports)	

Ref.	Part No.	Description	Qty.
14	01-5926	Hydraulic Cylinder (Early Style - Pipe Ports)	2
	02-3538T91	Hydraulic Cylinder (Later Style - O-Ring Ports)	
15	01-7141	Male Tip	4
	01-7142	Dust Cap (for Male Tip)	
16	32-041	Hose	4
17	31-054	Coupling	4
18	02-3559T1	Pipe	4
19	32-119	Hose	2
20	01-7135	Hydraulic Coupler	2
21	19-121	Lock Washer, 3/4	4
22	02-3285T1	Pin	2
23	02-3554T1	Spacer	4
24	02-3255T91	Hydraulic Cylinder (Early Style - Pipe Ports)	2
	02-3536T91	Hydraulic Coupler (Later Style - O-Ring Ports)	
25	19-633	Capscrew, 1/2 NC x 3/4	6
26	19-119	Lock Washer, 1/2	8
27	02-3553T1	Hose Clamp	6
28	31-1611	Hose	4
29	31-1610	Hose	6
30	19-043	Capscrew, 1/2 NC x 1	2



Pipe Ports



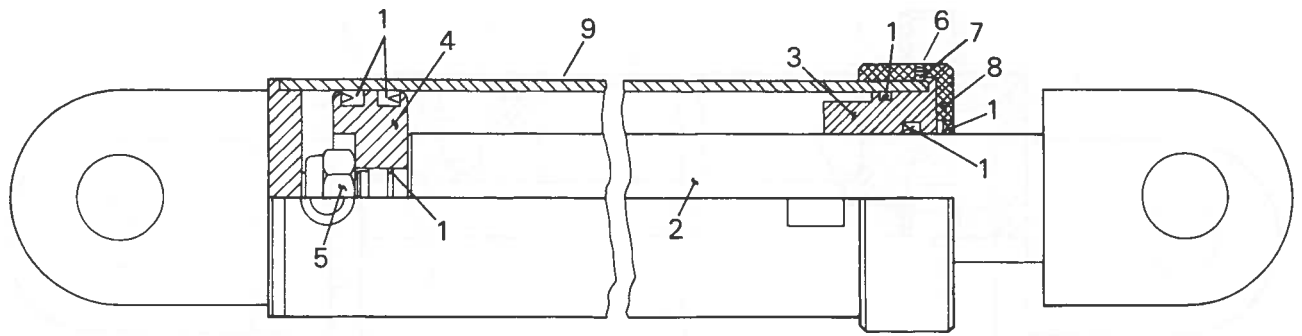
O-Ring Ports

Lift Cylinders

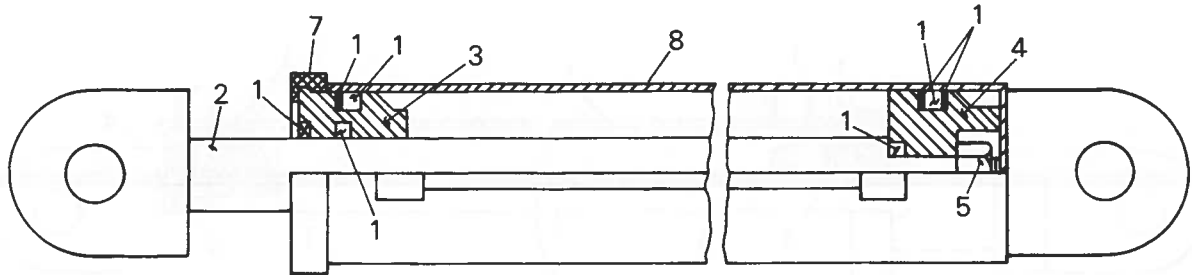
Dakota Utility Blade

Ref.	Part No.	Description	Qty.
1-6	02-3534T91	Cylinder Assembly (Pipe Ports)	1
1	02-3533T1	Seal Kit	AR
2	02-3530T1	Rod	1
3	02-3531T1	Rod Guide	1
4	02-3532T1	Piston	1
5	02-3257T1	Nut	1
6	NSS	Shell	1

Ref.	Part No.	Description	Qty.
1-6	02-3261T91	Cylinder Assembly (O-Ring Ports)	1
1	50-1100T91	Seal Kit	AR
2	02-3264T1	Rod	1
3	50-1095T1	Rod Guide	1
4	50-1096T1	Piston	1
5	50-1099T1	Lock Nut	1
6	NSS	Shell	1



Pipe Ports



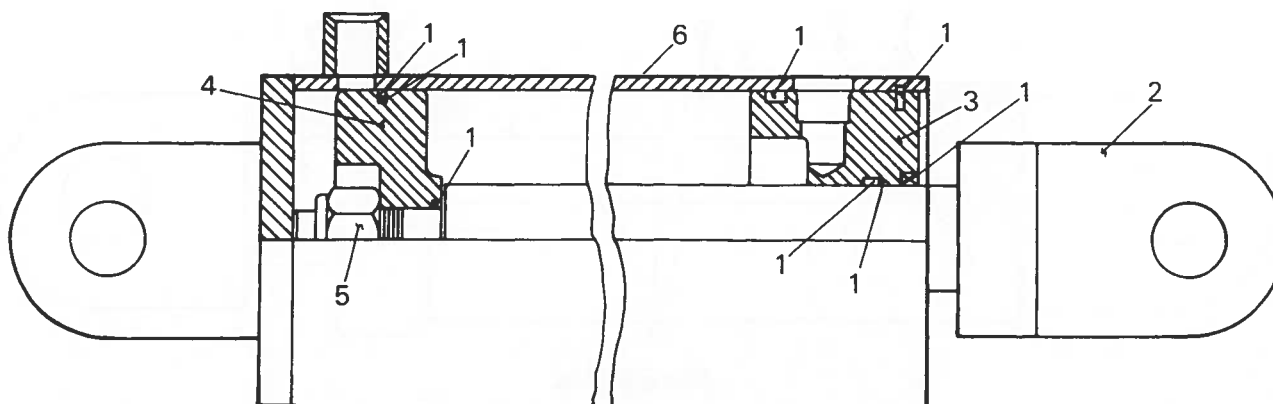
O-Ring Ports

Angle Cylinders

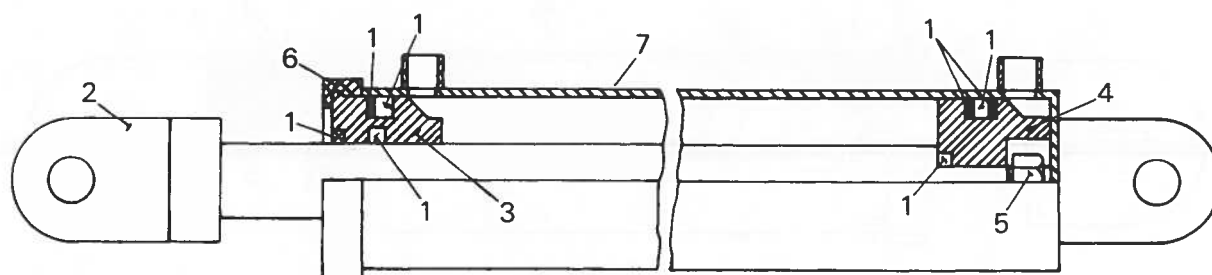
Dakota Utility Blade

Ref.	Part No.	Description	Qty.
1-9	02-3529T91	Cylinder Assembly (Pipe Ports)	1
1	02-3528T1	Seal Kit	AR
2	02-3523T1	Rod	1
3	02-3524T1	Rod Guide	1
4	02-3522T1	Piston	1
5	02-3521T1	Nut	1
6	02-3527T1	Set Screw	1
7	02-3526T1	Nylon Plug	1
8	02-3525T1	Cap	1
9	NSS	Shell	1

Ref.	Part No.	Description	Qty.
1-8	02-3275T91	Cylinder Assembly (O-Ring Ports)	1
1	02-3535T1	Seal Kit	AR
2	02-3583T1	Rod	1
3	02-3579T1	Rod Guide	1
4	02-3580T1	Piston	1
5	02-3578T1	Nut	1
6	02-3582T1	Clevis (not shown)	1
7	02-3581T1	Collar	1
8	NSS	Shell	1



Pipe Ports



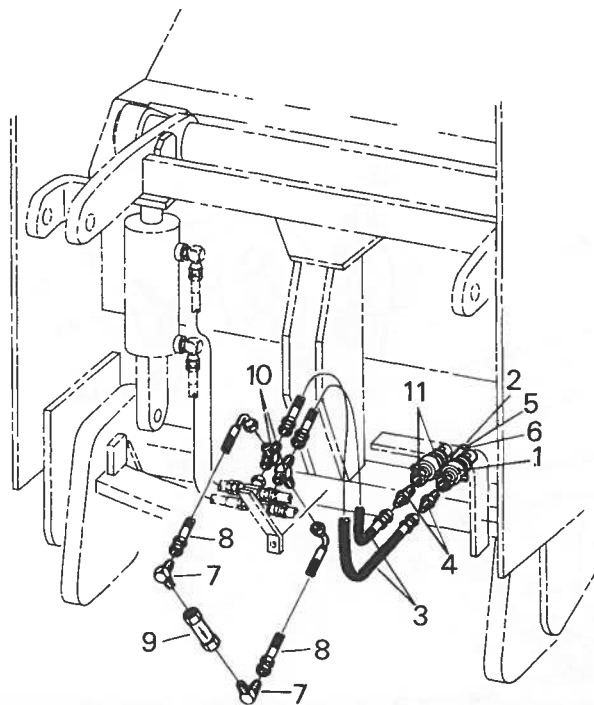
O-Ring Ports

Tilt Cylinders

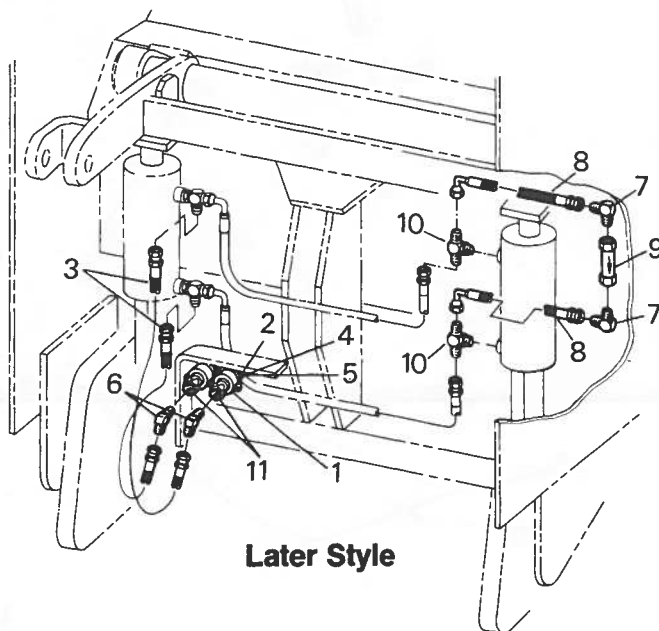
Dakota Utility Blade

Ref.	Part No.	Description	Qty.
1-6	02-3255T91	Cylinder Assembly (Pipe Ports)	1
1	02-3260T1	Seal Kit	AR
2	02-3258T1	Rod	1
3	02-3259T1	Rod Guide	1
4	02-3256T1	Piston	1
5	02-3257T1	Nut	1
6	NSS	Shell	1

Ref.	Part No.	Description	Qty.
1-7	02-3536T91	Cylinder Assembly (O-Ring Ports)	1
1	02-3537T1	Seal Kit	AR
2	02-3576T1	Rod	1
3	02-3573T1	Rod Guide	1
4	02-3574T1	Piston	1
5	02-3572T1	Nut	1
6	02-3575T1	Collar	1
7	NSS	Shell	1



Early Style

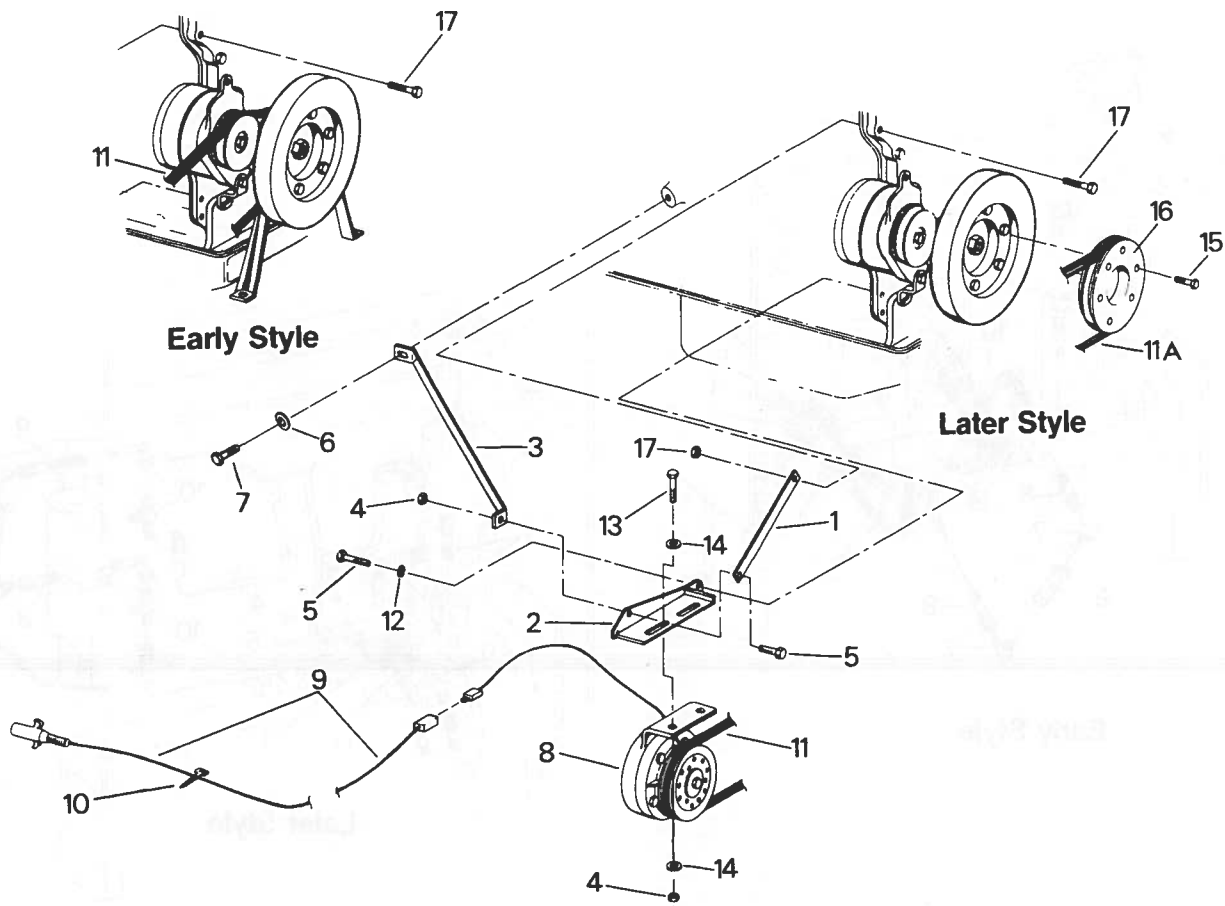


Later Style

3-Pt. Hydraulics (with Utility Blade Option)

Ref.	Part No.	Description	Qty.
Early Style			
1	01-7135	Hydraulic Coupler	1
2	19-961	Washer	2
3	32-150	Hose	2
4	31-363	Fitting	2
5	19-082	Lock Nut, 1/2 NC	1
6	19-269	Capscrew, 1/2 NC x 1-3/4	1
7	31-321	Elbow	2
8	31-1279	Hose	2
9	02-2380	Relief Valve	1
10	31-322	Tee	2
11	01-7141	Male Tip	2
	01-7142	Dust Cap (for Male Tip)	2

Ref.	Part No.	Description	Qty.
Later Style			
1	01-7135	Hydraulic Coupler	1
2	19-961	Washer	2
3	32-150	Hose	2
4	19-082	Lock Nut, 1/2 NC	1
5	19-269	Capscrew, 1/2 NC x 1-3/4	1
6	31-402	Fitting	2
7	31-321	Elbow	2
8	31-1279	Hose	2
9	02-2380	Relief Valve	1
10	31-1072	Tee (8)	2
11	01-7141	Male Tip	2
	01-7142	Dust Cap (for Male Tip)	2

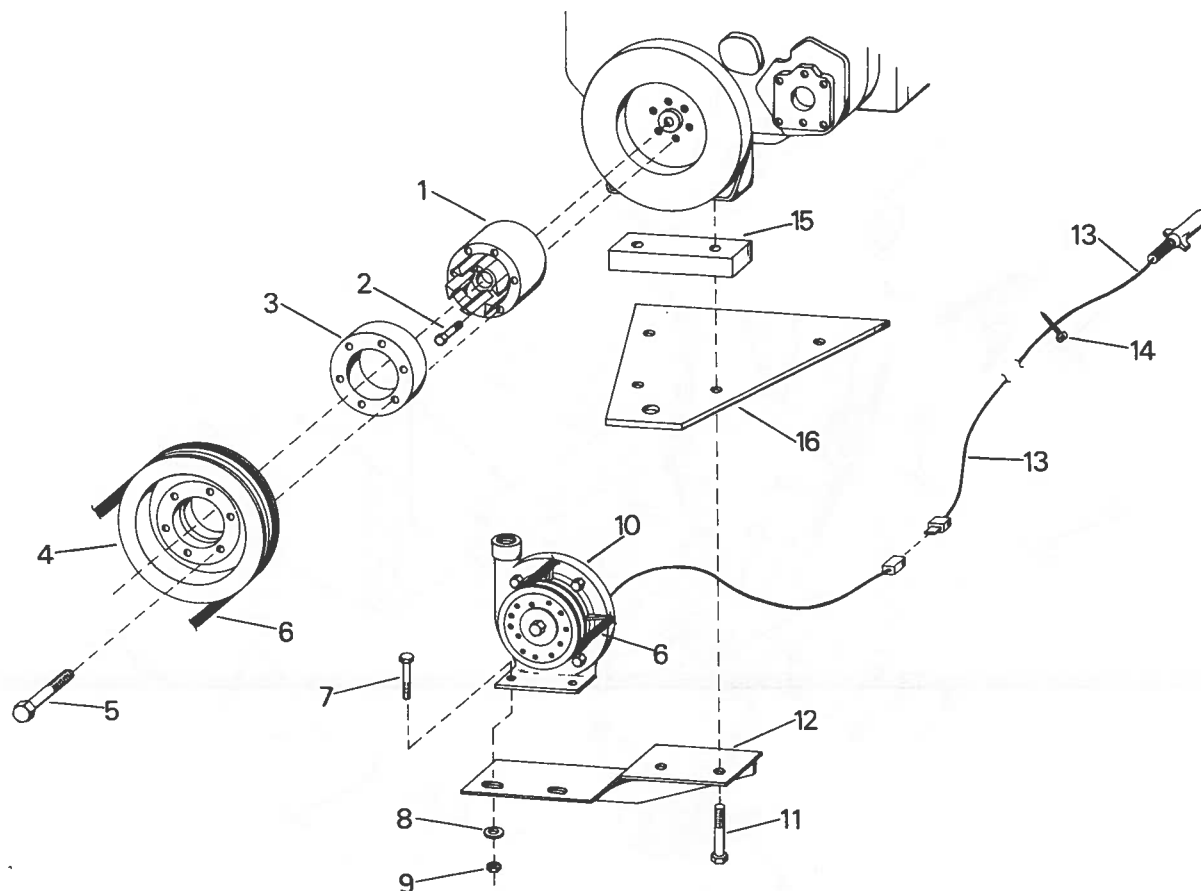


Sprayer Pump & Attaching Parts

3306 Cat Engine

Ref.	Part No.	Description	Qty.
1-14	35-1054	Sprayer Pump Kit (D)	1
1-16	35-1238T91	Sprayer Pump Kit (D)	1
1	01-2971	Brace	1
2	01-2967	Mount, Support Bracket (D)	1
	01-9277	Mount, Support Bracket (D)	1
3	01-2970	Brace	1
4	19-078	Nut, 3/8 NC	3
5	19-799	Capscrew, 3/8 NC x 1-1/4	3
6	19-111	Washer, 5/8	1
7	19-759	Capscrew, 5/8 NC x 1	1
8	01-2219	Sprayer Pump (see Page 11-49)	1
9	01-2908	Wire Assembly	1

Ref.	Part No.	Description	Qty.
10	22-824	Cable Tie	2
11	06-1451	Belt, Sprayer Pump (D)	1
11A	90-3513T1	Belt, Sprayer Pump (D)	1
12	19-117	Lock Washer, 3/8	2
13	19-019	Capscrew, 3/8 NC x 1-1/2	2
14	19-107	Washer, 3/8	4
15	19-018	Capscrew, 3/8 NC x 1-1/4	6
16	01-9280	Pulley	1
17	-NSS	Capscrew & Nut (use existing hardware to attach brace to engine)	1

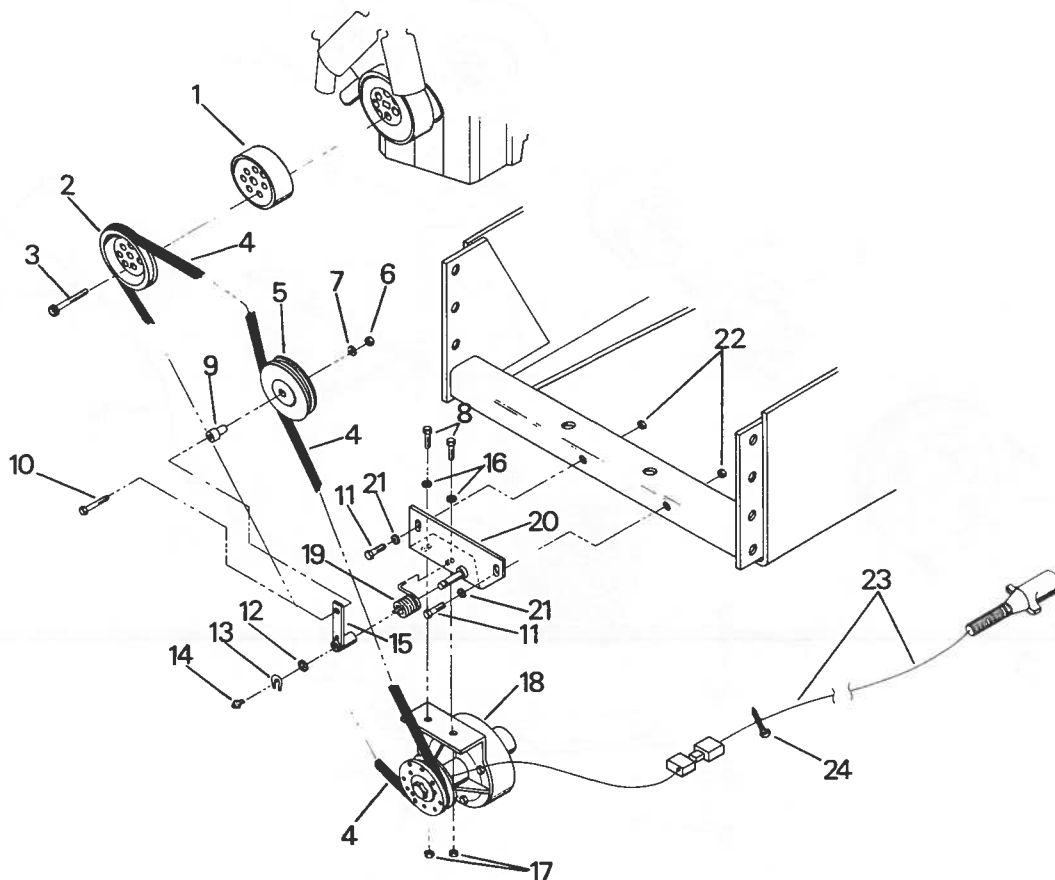


Sprayer Pump & Attaching Parts

855 Cummins Engine

Ref.	Part No.	Description	Qty.
1-14	35-1052	Sprayer Pump Kit	1
1	01-2818	Adapter, Front PTO	1
2	19-1904	Capscrew	6
3	01-2819	Adapter, Pulley	1
4	01-2817	Pulley, Crankshaft	1
5	19-2694	Capscrew	6
6	01-2820	Belt	1
7	19-019	Capscrew	2
8	19-107	Washer	2

Ref.	Part No.	Description	Qty.
9	19-078	Nut	2
10	01-2219	Pump Assy	1
11	19-2696	Capscrew	2
12	01-2814	Mounting Bracket	1
13	01-2908	Wire Assy	1
14	22-824	Cable Tie	2
15	06-1595	Bar	1
16	51-285	Motor Mount, Front	1

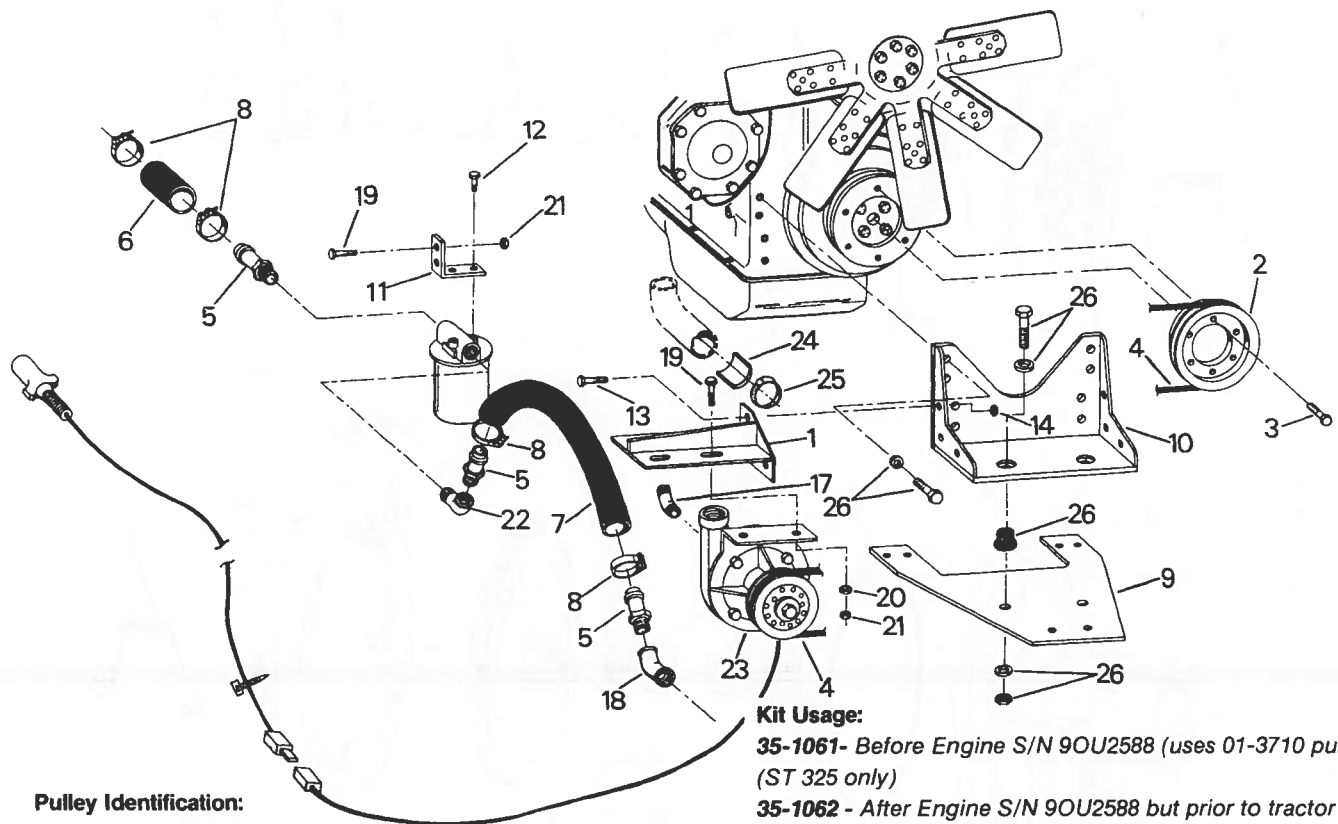


Sprayer Pump and Attaching Parts

903 Cummins Engines

Ref.	Part No.	Description	Qty.
1-24	35-1055	Sprayer Pump Kit	
1	01-2975	Spacer	1
2	06-116	Pulley	1
3	19-3916	Capscrew	7
4	01-6862	Belt	1
5	01-2989	Pulley, Idler	1
6	19-087	Lock Nut	1
7	19-1055	Washer	1
8	19-018	Capscrew	2
9	01-2980	Shaft, Pulley	1
10	19-022	Capscrew	1
11	19-045	Capscrew	2
12	19-192	Washer	1

Ref.	Part No.	Description	Qty.
13	19-3917	Ring, Snap	1
14	31-095	Fitting, Grease	1
15	01-2976	Arm Weldment	1
16	19-107	Washer	2
17	19-078	Nut	2
18	01-2219	Pump Assy	1
19	11-020	Spring Torsion	1
20	01-2973	Bracket	1
21	19-109	Washer	2
22	19-081	Nut	2
23	01-2908	Wire Assy	1
24	22-824	Cable Tie	2



Pulley Identification:

01-3710 is as shown

01-3066 has an extra set of 1-1/4" I D holes between the holes shown.

Kit Usage:

35-1061- Before Engine S/N 90U2588 (uses 01-3710 pulley) (ST 325 only)

35-1062 - After Engine S/N 90U2588 but prior to tractor S/N 123-01207 (ST 325 only) (uses pulley 01-3066)

35-1301T91 - After tractor S/N 123-01207 (ST 325) & on all ST 280 (uses pulley 01-3066)

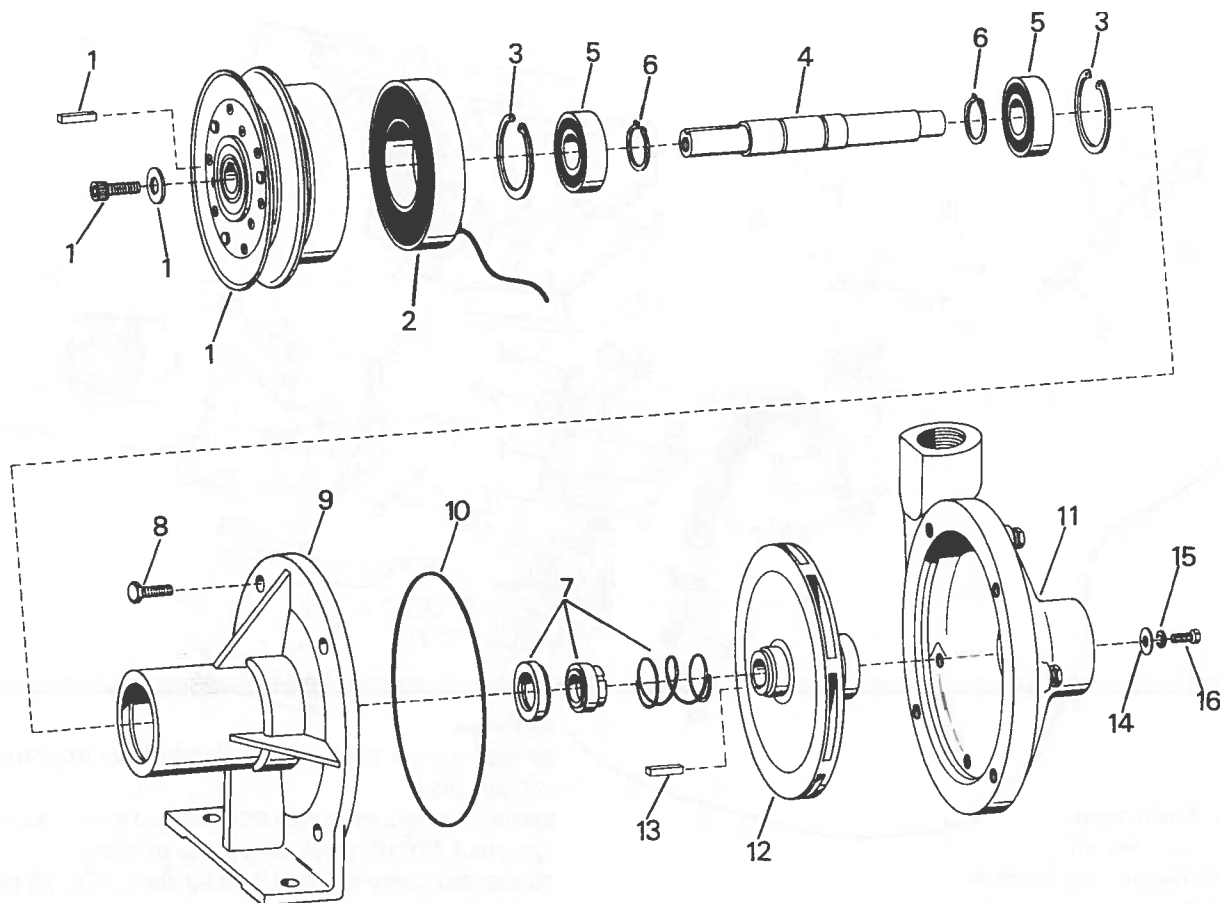
This kit does not incl Refs. 5-8, 11, 12, 18 & 23 as the others do, as these parts are now standard equipment.

Sprayer Pump & Attaching Parts

3406 Cat Engine

Ref.	Part No.	Description	Qty.
1	01-3067	Bracket	1
2	01-3066	Pulley (see Kit usage)	1
	01-3710	Pulley (see Kit usage)	
3	19-817	Capscrew, 5/8 UNC x 2	6
	19-1109	Capscrew, 3/8 UNC x 2 (used with Pulley P/N 01-3710)	6
4	01-6863	Belt	1
5	18-1529	Fitting	3
6	01-3708	Hose	1
7	01-3709	Hose	1
8	01-1348	Clamp	4
9		Support, Engine	1
10		Support, Engine Mount	1
11	01-3070T1	Filter Mount	1
12	19-006	Capscrew	2
13	19-045	Capscrew	3

Ref.	Part No.	Description	Qty.
14	19-082	Nut, 1/2 NC	3
15	01-2908	Wire Assy	1
16	22-824	Cable Tie	2
17	01-3711	Inlet Elbow	1
18	01-3716	45° Pipe Elbow	1
19	19-019	Capscrew, 3/8 NC x 1-1/2	4
20	19-107	Washer, 3/8	2
21	19-078	Nut, 3/8 NC	4
22	31-023	45° Street Elbow	1
23	01-2219	Pump Assy	1
24	01-4193	Shield	1
25	32-022	Clamp	1
26	NSS	Existing Hardware	

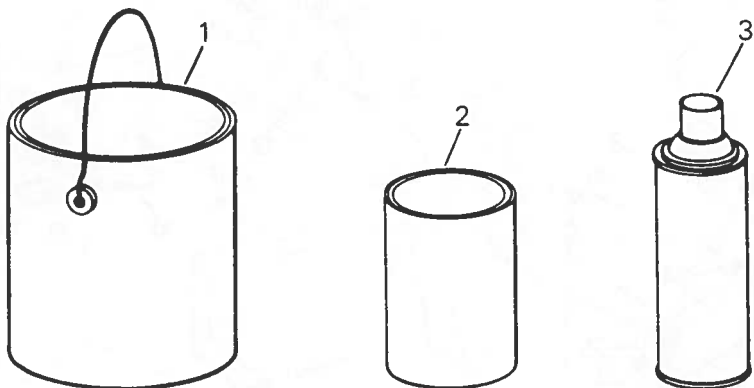


Sprayer Pump Assembly

Ref.	Part No.	Description	Qty.
1-16	01-2219	Sprayer Pump Assy	1
1	16-1477	Pulley, Clutch Drive	1
2	16-1474	Coil Ring	1
3	16-1470	Ring, Retainer	2
4	16-1473	Shaft, Pump	1
5	16-1472	Bearing	2
6	16-1471	Ring, Retainer	2
7	16-1475	Seal Kit	1
8	19-016	Capscrew, 3/8 NC x 3/4	4

Ref.	Part No.	Description	Qty.
9	16-1478	Housing, Impeller	1
10	16-1480	O-Ring	1
11	16-1476	Volute	1
12	16-1479	Impeller	1
13	19-878	Key, 3/16 x 1/2 Sq	1
14	19-700	Washer, 3/8	1
15	19-116	Lock Washer, 5/16	1
16	19-361	Capscrew, 5/16 NF x 1/2	1

NOTE: On later production models, a semi-gloss black paint is now being used on the top/inside of the hood, the inside of the cab, on the band around the cab and on the air intake stacks. This semi-gloss black paint replaces the flat black paint used on previous models. Be sure to check the paint on your particular model before ordering touch-up paint.



*Before July 1, 82
**After July 1, 82

Paint

Ref.	Part No.	Description	Qty.
1	27-049T1	Gallons Steiger Green	
	27-056	Gloss Black	
	27-075	Flat Black	
	02-3668T1	Semi-Gloss Black*	
	02-5315T1	Semi-Gloss Black**	
2	27-048T1	Quarts Steiger Green	
	02-6956T1	Hi-Heat Black	
	27-064	Gloss Black	
	02-3667T1	Semi-Gloss Black*	
	02-5316T1	Semi-Gloss Black**	

Ref.	Part No.	Description	Qty.
3	27-046T1	Spray Can Steiger Green	
	27-065	Flat Black	
	27-096	Gloss Black	
	27-092	Hi-Heat Black	
	02-3669T1	Semi-Gloss Black*	
	02-5313T1	Semi-Gloss Black**	

Kit Usage

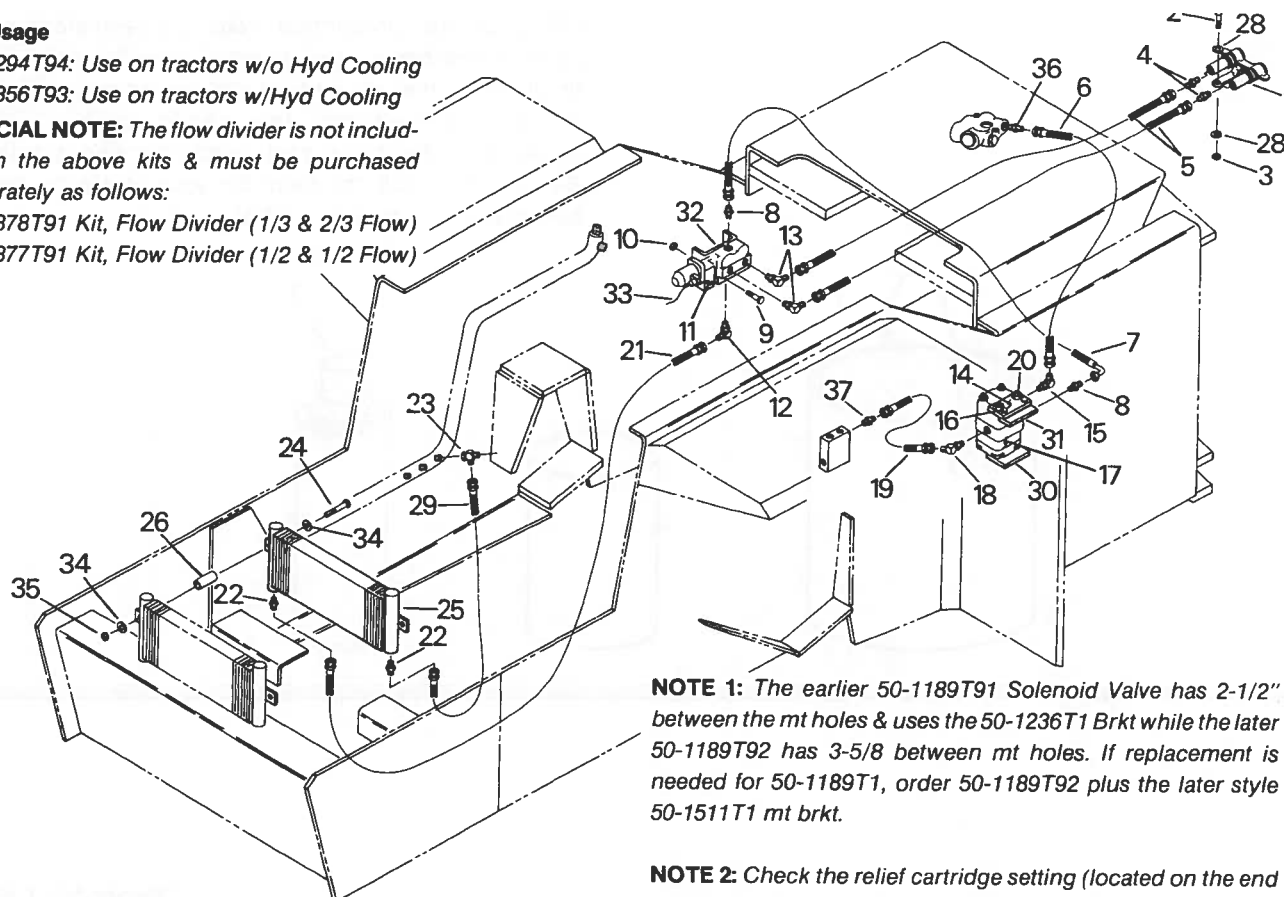
35-1294T94: Use on tractors w/o Hyd Cooling

35-1356T93: Use on tractors w/Hyd Cooling

SPECIAL NOTE: The flow divider is not included in the above kits & must be purchased separately as follows:

35-1378T91 Kit, Flow Divider (1/3 & 2/3 Flow)

35-1377T91 Kit, Flow Divider (1/2 & 1/2 Flow)



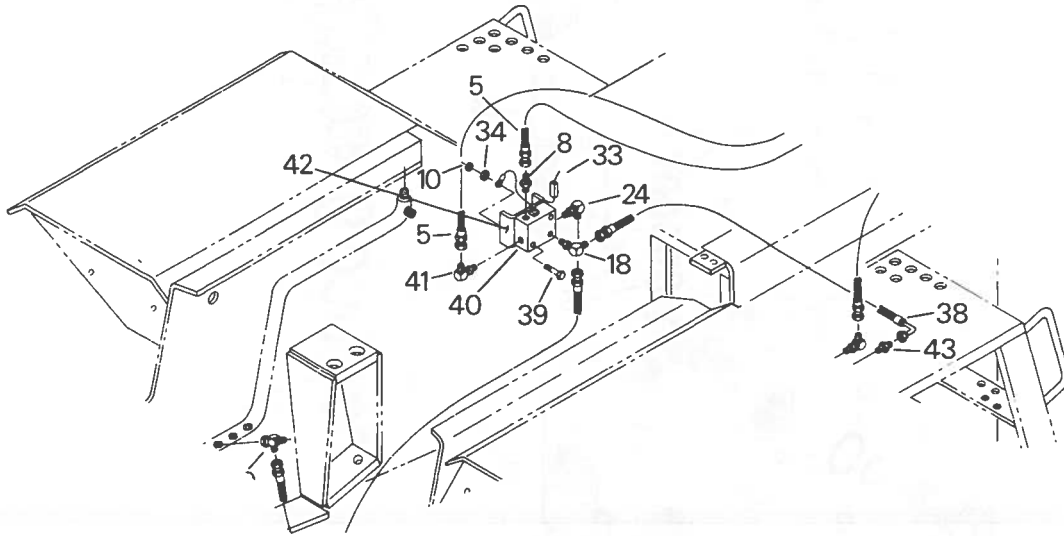
NOTE 1: The earlier 50-1189T91 Solenoid Valve has 2-1/2" between the mt holes & uses the 50-1236T1 Brkt while the later 50-1189T92 has 3-5/8 between mt holes. If replacement is needed for 50-1189T91, order 50-1189T92 plus the later style 50-1511T1 mt brkt.

NOTE 2: Check the relief cartridge setting (located on the end cover) in the control valve. If the relief setting is 3000 PSI it must be replaced by a 2250 PSI relief valve cartridge (Ref. 27).

Hydraulic Motor Kits (W/Early Style Solenoid Valve) (Before Sept 83)

Ref.	Part No.	Description	Qty.
1	01-7135	Hyd Coupler	1
2	19-269	Capscrew	1
3	19-082	Lock Nut	1
4	18-570	Fitting (10)	2
5	31-1639	Hose	2
6	31-1644	Hose	1
7	31-1645	Hose	1
8	18-623	Fitting (12)	2
9	19-022	Capscrew	3
10	19-078	Nut	3
11	50-1189T91	Solenoid Valve (see Note 1)	1
	50-1189T92	Solenoid Valve (see Note 1)	1
12	31-454	Elbow (12)	1
	31-326	Elbow (12)*	1
13	18-569	Elbow (10)	2
14	50-1233T1	Plate	1
15	31-479	Elbow (16) (use w/50-1190T91)	1
	31-368	Elbow (12) (use w/50-1839T91)	1
16	19-007	Capscrew	2
17	50-1190T91	Flow Divider, (1/3 & 2/3 Flow)	1
	50-1839T91	Flow Divider, (1/2 & 1/2 Flow)	1
18	31-418	Elbow (16)	1
19	31-1642	Hose	1

Ref.	Part No.	Description	Qty.
20	19-083	Nut	4
21	31-1638	Hose	1
	31-1694	Hose*	1
22	31-449	Fitting	2
	31-340	Elbow*	1
23	31-495	Tee	1
24	19-133	Capscrew	2
25	10-039	Cooler	1
26	02-1981T1	Spacer	2
27	18-1703	Relief Valve (see Note 2)	1
28	19-961	Washer	2
29	31-1640	Hose	1
	31-1703	Hose*	1
30	50-1235T1	Plate	1
31	50-1234T1	Plate	1
32	50-1236T1	Bracket (see Note 1)	1
	50-1511T1	Bracket (see Note 1)	1
33	20-1262T1	Wire Assy	1
34	19-107	Washer	4
35	19-341	Lock Nut	2
36	31-369	Fitting (16)	1
37	31-464	Fitting (12)	1



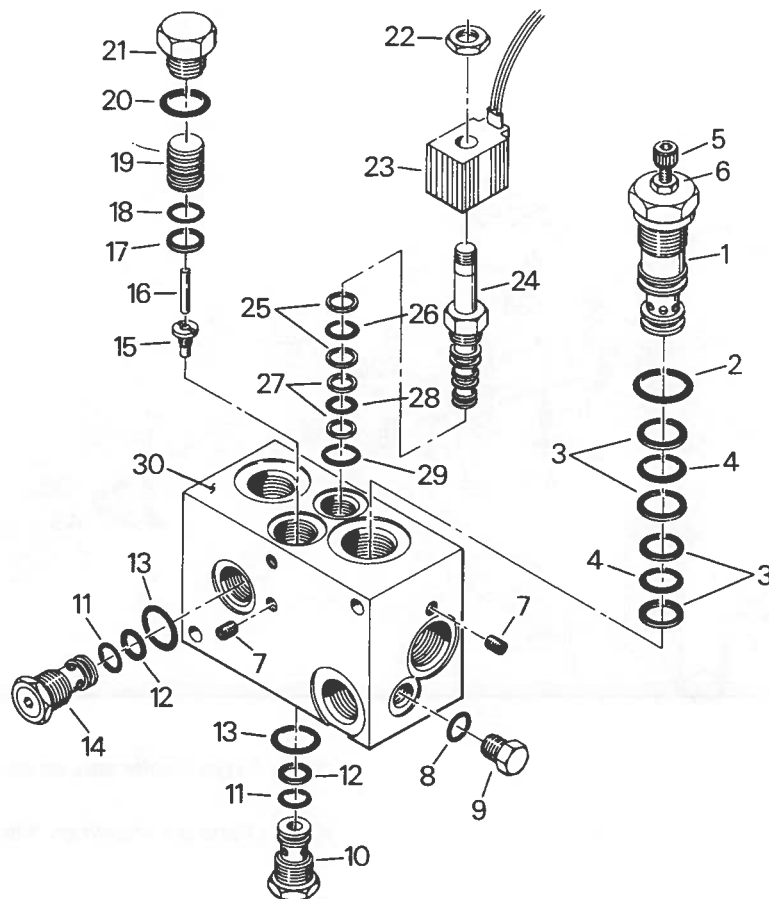
**Used if Hyd Cooler was on tractor prior to Motor Kit*

NOTE: Parts not shown are the same as on Page 10-50.

Hydraulic Motor Kit (W/Later Style Solenoid Valve) (After Sept 84)

Ref.	Part No.	Description	Qty.
38	31-2319	Hose	1
39	19-025	Capscrew	2
40		Solenoid Valve Assy (see Page 10-50B)	1

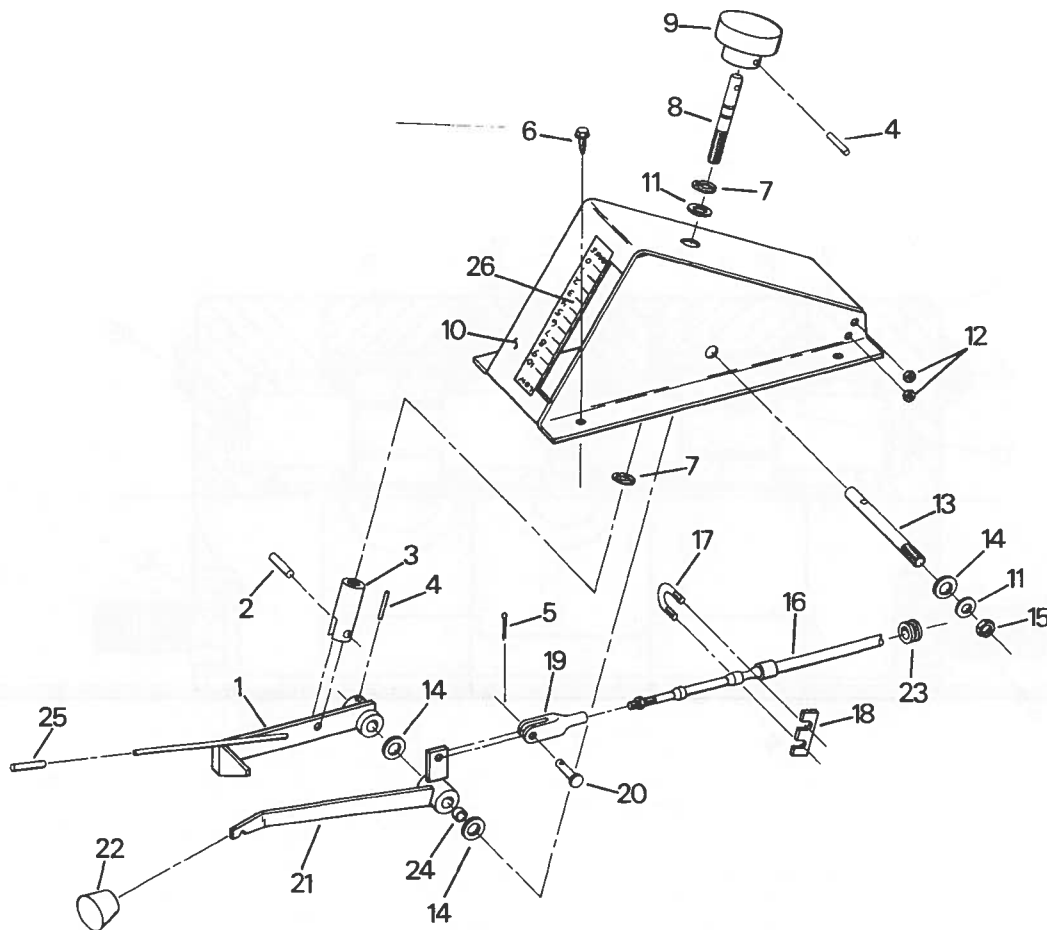
Ref.	Part No.	Description	Qty.
41	31-454	Elbow (12)	1
42	50-1511T2	Bracket	1
43	18-783	Adapter	1



Solenoid Valve Assembly

Ref.	Part No.	Description	Qty.
1-30	50-2154T91	Solenoid Valve Assy	1
1-6	50-2159T91	Relief Valve Assy	1
1	NSS	Relief Valve	1
2-4	50-2160T1	Seal Kit	AR
2	NSS	O-Ring	1
3	NSS	Backup Ring	4
4	NSS	O-Ring	2
5	40-1187	Socket Head Capscrew (metric)	1
6	40-1188	Nut (metric)	1
7	31-535	Pipe Plug	3
8	31-1099	O-Ring	1
9	01-3213	Plug (with O-Ring)	1
10-13	50-2161T91	Check Valve Assy	1
10	NSS	Check Valve	1
11-14	50-2163T91	Check Valve Assy	1
11-13	50-2162T1	Seal Kit	AR
11	NSS	O-Ring	2
12	NSS	Backup Ring	2
13	NSS	O-Ring	2

Ref.	Part No.	Description	Qty.
14	NSS	Check Valve	1
15	50-2164T1	Guide	1
16	19-6103	Dowel Pin	1
17	31-2314	O-Ring	1
18	31-2315	O-Ring	1
19	50-2165T1	Piston	1
20	31-644	O-Ring	1
21	01-2197	Plug (with O-Ring)	1
22-29	50-2166T91	Solenoid Valve Sub-Assy	1
22	19-237	Jam Nut	1
23	50-2167T1	Solenoid	1
24	NSS	Valve	1
25-29	35-1511T91	Seal Kit	AR
25	50-2168T1	Backup Ring	2
26	31-2316	O-Ring	1
27	50-2169T1	Backup Ring	2
28	31-2027	O-Ring	1
29	31-2317	O-Ring	1
30	NSS	Body	1

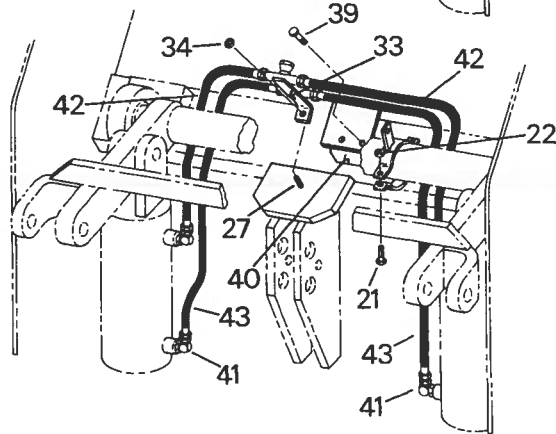
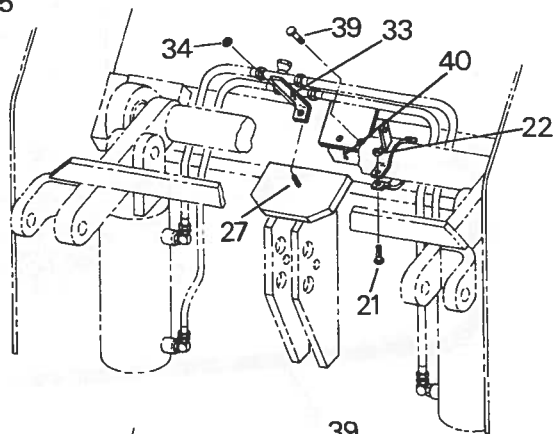
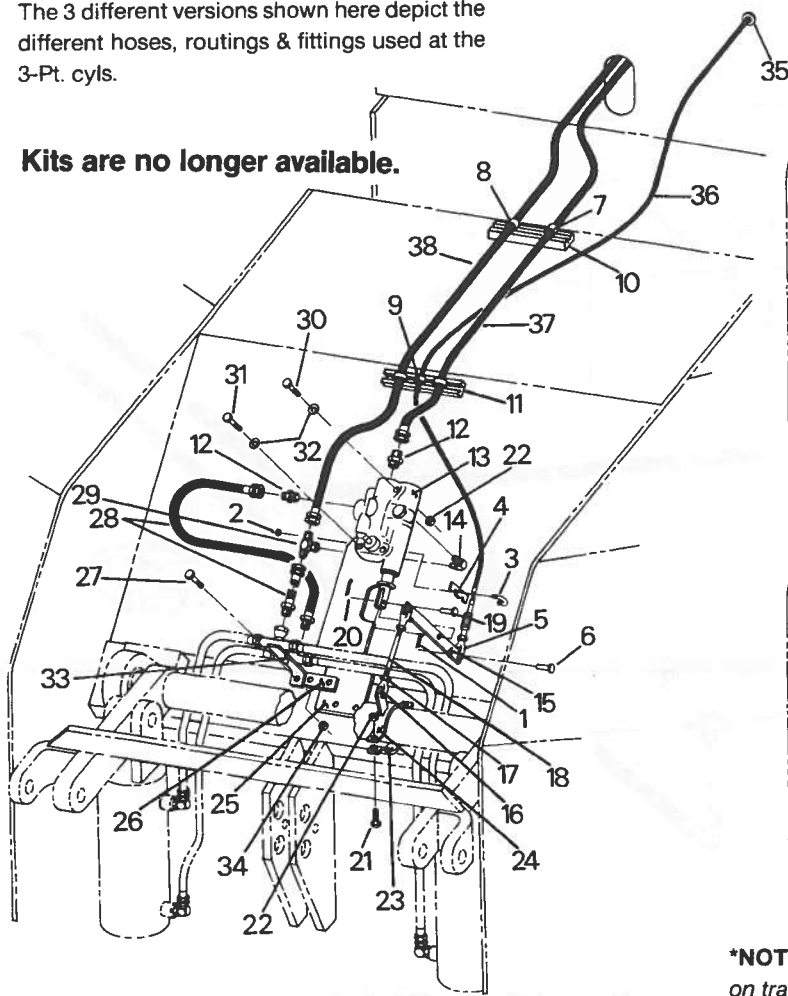


Depth Control (Cab)

Ref.	Part No.	Description	Qty.	Ref.	Part No.	Description	Qty.
1	01-5440	Stop	1	14	54-294	Thrust Washer	3
2	19-151	Roll Pin	1	15	19-094	Lock Nut, 1/2 NF	1
3	01-5448	Block, Adjusting	1	16	02-2518	Cable	1
4	19-5361	Spring Pin	2	17	19-964	U-Bolt	1
5	19-170	Cotter Pin	1	18	01-3767	Shim	1
6	19-485	Screw, Tapping, 1/4 NC x 1/2	4	19	19-141	Yoke	1
7	01-1807	Snap Ring	2	20	19-144	Clevis Pin	1
8	01-5443	Rod, Adjusting	1	21	02-1570T1	Lever	1
9	01-5482	Knob	1	22	18-646	Knob	1
10	02-1571T1	Frame	1	23	22-765	Grommet	1
11	19-109	Washer, 1/2	2	24	01-1498	Bushing	1
12	19-802	Lock Nut, NC 5/16	2	25	01-6821	Cap	1
13	02-1575	Shaft, Pivot	1	26	02-1013	Decal, Position Control	1

The 3 different versions shown here depict the different hoses, routings & fittings used at the 3-Pt. cyls.

Kits are no longer available.

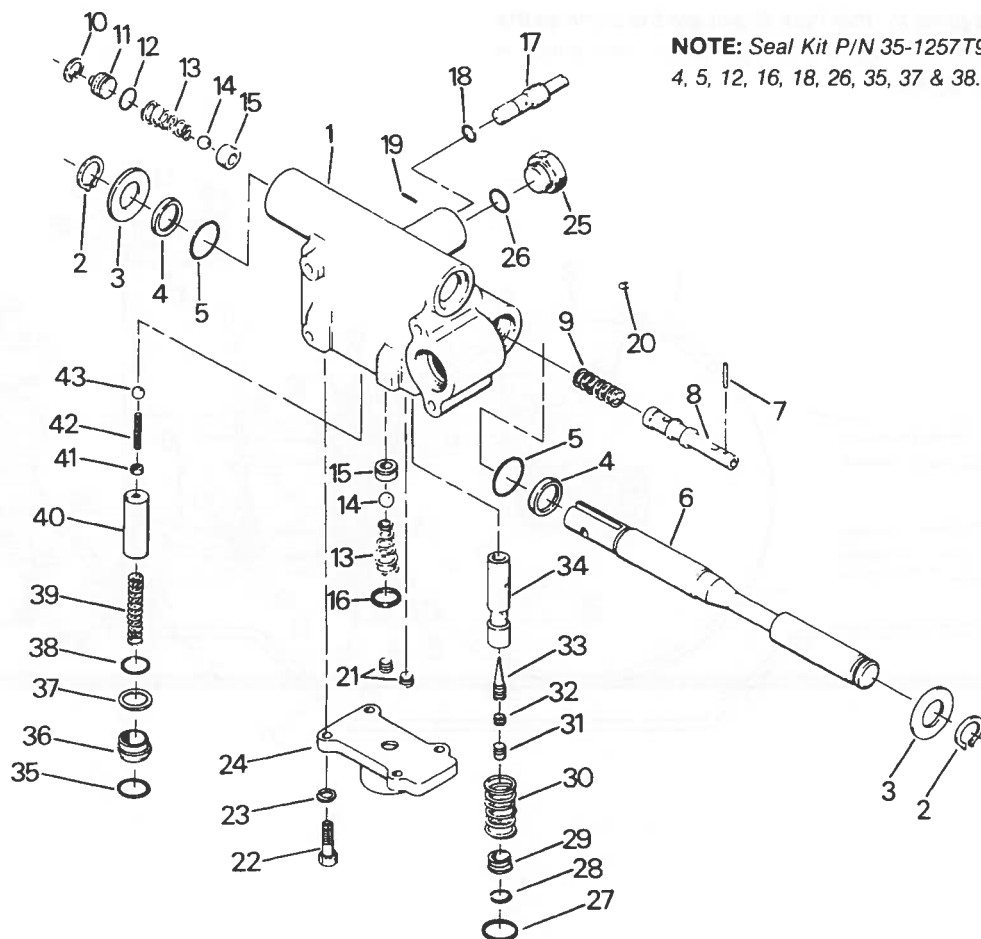


***NOTE:** Use only if heavier rocker shaft w/4-1/2" cross shaft is on tractor.

Depth Control Hydraulics (Hitch Side)

Ref.	Part No.	Description	Qty.
1	19-170	Cotter Pin	1
2	19-802	Lock Nut, 5/16 NC	2
3	19-964	U-Bolt	1
4	01-3767	Shim	1
5	19-141	Yoke	1
6	19-144	Clevis Pin	1
7	31-1150	Clamp	2
8	31-1151	Clamp	2
9	31-1313	Clamp	1
10	31-1197	Channel, Anchor	1
11	31-1196	Channel, Anchor	1
12	18-624	Fitting (14)	2
13	18-1102	Valve, Depth Control	1
14	31-394	Elbow (16)	1
15	01-8592	Lever	1
16-18	40-457	Rod Assy, Adjusting	1
16	19-140	Yoke	2
17	19-236	Jam Nut, 5/16 NF	2
18	40-456	Rod	1
19	19-143	Clevis Pin	3
20	19-238	Cotter Pin	3
21	19-234	Capscrew, 5/16 NC x 1-1/4	2

Ref.	Part No.	Description	Qty.
22	19-508	Lock Nut, 5/16 NC	5
23	40-459	Clamp, Bottom (50-1290T1)*	1
24	40-461	Clamp, Top (50-1291T1)*	1
25	02-2545	Mount	1
26	40-475	Mounting Tab	1
27	19-043	Capscrew, 1/2 NC x 1	3
28	18-1743	Hose	2
29	18-609	Tee	1
30	19-333	Capscrew, 5/16 NC x 4	1
31	19-275	Capscrew, 5/16 NC x 3-1/4	2
32	19-700	Washer, 5/16	3
33	40-300	Bracket	1
34	19-082	Lock Nut, 1/2 NC	3
35	22-765	Grommet	1
36	02-2518	Cable	1
37	31-1446	Hose	1
38	31-1447	Hose	1
39	19-045	Capscrew, 1/2 NC x 1-1/2	2
40	70-1371T1	Mount	1
41	31-385	Elbow (8)	4
42	32-1006	Hose	2
43	32-041	Hose	2



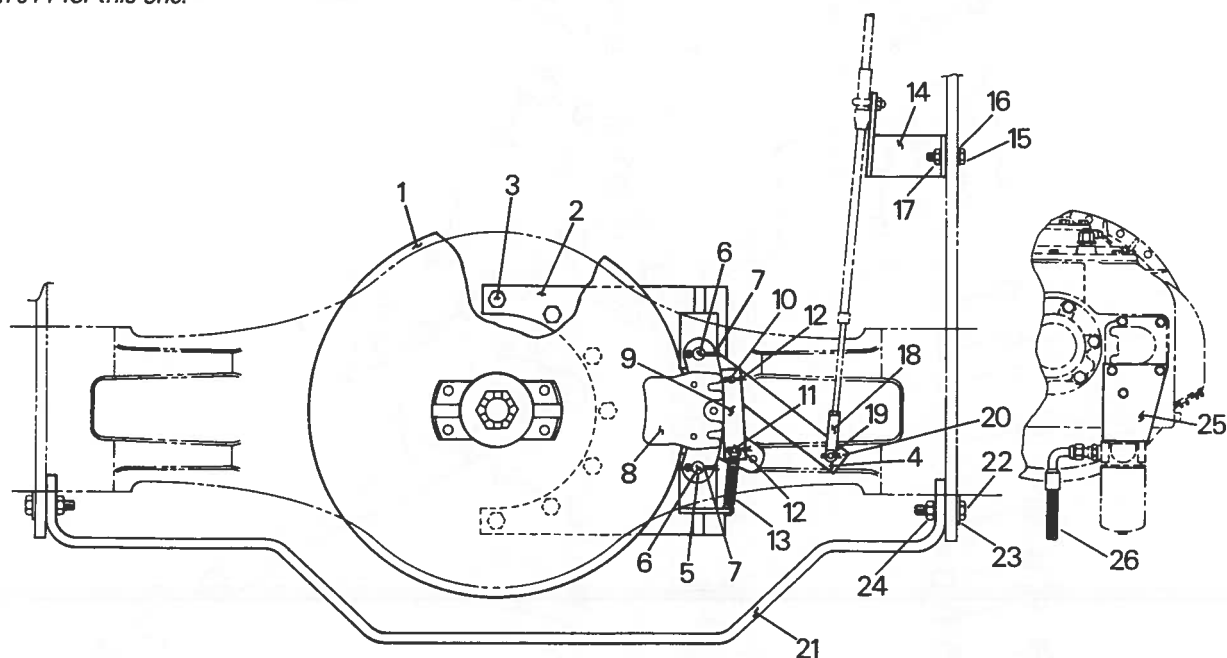
NOTE: Seal Kit P/N 35-1257T91 includes Ref. 4, 5, 12, 16, 18, 26, 35, 37 & 38.

Depth Control Valve

Ref.	Part No.	Description	Qty.
1-43	18-1102	Valve Assembly	1
1	NSS	Body	1
2	18-1188	Snap Ring	2
3	18-1189	Washer	2
4	18-1190	Oil Seal, Valve Spool	2
5	18-1191	O-Ring, Valve Spool	2
6	18-1192	Spool, Control Valve	1
7	18-1193	Roll Pin	1
8	18-1194	Piston, Control Valve	1
9	18-1195	Spring, Piston	1
10	18-1196	Snap Ring	1
11	18-1197	Plug, Check Valve	1
12	18-1198	O-Ring	1
13	18-1199	Spring, Check Valve	2
14	18-1200	Ball, Check Valve	2
15	18-1201	Seat, Load Check	2
16	18-1202	Seal Ring, Check Port	1
17	18-1203	Spool, Throttle Valve	1
18	18-1204	O-Ring, Throttle Spool	1
19	18-1205	Roll Pin	1
20	18-1206	Pipe Plug	1
21	18-1207	Pipe Plug	2

Ref.	Part No.	Description	Qty.
22	19-007	Capscrew, 5/16 x 1 UNC	4
23	19-116	Lock Washer, 5/16	4
24	18-1210	Cover, Valve	1
25	18-1211	Plug	1
26	18-1212	O-Ring	1
27	18-1213	Seal Ring, Trigger Valve	1
28	18-1214	Snap Ring	1
29	18-1215	Retainer, Snap Ring	1
30	18-1216	Spring, Trigger Valve	1
31	18-1217	Plug, Poppet	1
32	18-1218	Set Screw	1
33	18-1219	Needle Valve	1
34	18-1220	Piston, Trigger Valve	1
35	18-1221	O-Ring, Poppet	1
36	18-1222	Sleeve, Poppet	1
37	18-1223	Back-Up Ring, Sleeve	1
38	18-1224	O-Ring, Piston	1
39	18-1225	Spring, Poppet	1
40	18-1226	Poppet, Lowering	1
41	18-1227	Lock Nut	1
42	18-1208	Set Screw, Poppet	1
43	18-1209	Ball, Poppet	1

NOTE: Service parts for this Park Brake are the same as the 02-1388T91 brake on Page 5-4 except for the cam, which is 90-1479T1 for this one.



Park Brake Option (United Kingdom only)

Ref.	Part No.	Description	Qty.
1	90-1425T1	Yoke	1
2	90-1427T1	Brake Mount	1
3	40-1151	Capscrew, M14-1.5 x 60MM	7
4	90-1420T1	Lever	1
5	90-1412T1	Spacer	1
6	90-1417T1	Pin	2
7	19-199	Cotter Pin	6
8	90-1482T91	Brake Assy, Park (see Note)	1
9	90-1419T1	Strap	2
10	19-145	Clevis Pin	1
11	90-1487T1	Clevis Pin	1
12	19-238	Cotter Pin	2
13	11-016	Spring	1

Ref.	Part No.	Description	Qty.
14	90-1421T1	Bracket	1
15	19-019	Capscrew, 3/8 NC x 1-1/2	2
16	19-224	Washer, 3/8	2
17	19-078	Nut, 3/8 NC	2
18	19-141	Clevis	1
19	19-144	Clevis Pin	1
20	19-170	Cotter Pin	1
21	90-1483T1	Pan	1
22	19-046	Capscrew, 1/2 NC x 2	4
23	19-109	Washer, 1/2	4
24	19-081	Nut, 1/2 NC	4
25	90-1484T1	Bracket, Filter	1
26	32-308	Hose	1

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19-076	3-11	19-082	10-38	19-107	4-9	19-120	5-1	19-170	10-56
19-076	4-2	19-082	10-39	19-107	5-5	19-120	10-27	19-175	1-5
19-076	4-24	19-082	10-43	19-107	6-2	19-120	10-33	19-175	10-2
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19-076	4-42	19-082	10-47	19-107	6-3	19-121	10-26	19-187	8-4
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19-194	5-1	19-271	10-37	19-375	10-35	19-508	4-12	19-683	10-23
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19-195	10-5	19-273	2-15	19-378	1-5	19-508	5-7	19-698	10-1
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19-256	4-39	19-341	1-16	19-485	3-9	19-658	5-3	19-817	4-21
19-256	4-41	19-341	1-36	19-485	10-52	19-658	5-4	19-817	4-52
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19-835	10-34	19-956	1-8	19-1071	6-2	19-5426	10-1	20-1107T1	2-26
19-838	4-47	19-957	1-24	19-1081	2-23	19-5434	1-6	20-1150T1	2-18
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19-843	6-6	19-958	3-1	19-1120	10-29	19-5508	10-9	20-1204T91	1-31
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31-159	7-2	31-364	4-36	31-660	4-21	31-1295	3-7	31-1590	4-36
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31-164	4-18	31-367	10-35	31-661	4-21	31-1296	3-11	31-1610	10-39
31-164	4-18	31-368	8-2	31-661	4-43	31-1296	3-5	31-1611	10-39
31-172	8-4	31-369	8-2	31-662	4-8	31-1296	3-7	31-1638	10-50
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31-303	4-43	31-466	4-29	31-1098	8-1	31-1423	3-15	32-025	4-18
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32-041	10-4	32-1000	3-11	35-1022T91	10-19	35-1253T91	10-7	40-362	10-1
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32-068	4-21	32-1000	3-9	35-1029	4-19	35-1267	4-16	40-459	10-54
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32-068	5-5	32-1004	4-14	35-1032	10-6	35-1276T91	10-22	40-475	10-54
32-068	5-7	32-1004	4-15	35-1034	4-10	35-1276T91	10-23	40-504	10-1
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45-255	4-15	51-127	4-3	52-075	6-4	54-400	1-26	60-1611T1	1-21
45-259	3-14	51-128	4-2	52-088	4-40	54-402	1-1	60-1612T1	1-19
45-259	10-18	51-128	4-3	52-121	6-4	54-403	1-8	60-1613T1	1-20
45-261	4-14	51-128	4-39	52-122	6-4	54-404	1-1	60-1614T1	1-19
45-262	4-14	51-128	4-39	52-126	6-4	54-404	1-27	60-1618T91	1-21
45-263	4-14	51-128	4-41	52-130	8-15	54-405	1-1	60-1619T1	1-21
45-264	4-5	51-128	4-5	52-132	4-41	54-405	1-27	60-1620T91	1-21
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45-265	4-13	51-243	3-10	52-134	4-41	54-408	1-8	60-1622T1	1-21
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451411	10-33	51-243	3-11	52-138	4-40	54-410	1-31	60-1625T1	1-21
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454493	4-2	51-243	3-7	52-143	4-40	54-412	1-2	60-1627T1	1-22
454774	1-28	51-243	3-8	52-144	4-40	54-412	1-4	60-1628T1	1-21
454862	4-52	51-243	3-9	52-145	4-40	54-302T1	1-2	60-1628T1	1-22
454993	4-5	51-243	4-35	52-146	4-40	54-302T1	1-4	60-1629T1	1-19
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456836	8-13	51-265	2-4	53-062	4-18	54-304T1	1-4	60-1631T1	1-19
467	3-1	51-285	4-1	53-106	6-6	54-304T1	10-18	60-1632T1	1-20
50-038	10-1	51-285	10-45	53-107	6-6	54-304T1	10-18	60-1633T1	1-20
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50-1058T91	10-3	51-384	6-5	54-071	4-26	54-390T1	1-25	60-1637T1	1-23
50-1065T1	10-3	51-385	6-5	54-260	1-1	55-135	5-1	60-1638T1	1-21
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50-1099T1	10-32	51-401	4-16	54-298	4-21	60-371	4-33	60-1649T1	1-22
50-1099T1	10-40	51-402	4-16	54-299	4-21	60-1098T91	1-19	60-1650T1	1-22
50-1100T91	10-32	51-405	4-16	54-303	1-2	60-1138T1	1-6	60-1651T1	1-22
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50-1189T92	10-50	51-431	8-4	54-312	1-31	60-1500T1	10-21	60-1663T1	1-21
50-1190T91	10-50	51-433	8-4	54-313	1-31	60-1554T91	1-30	60-1664T1	1-21

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60-1700T1	1-23	70-1371T1	10-54	90-2308T91	10-12	9417948	5-5
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60-1704T1	1-23	70-1832T2	10-2	90-2338T1	4-3	9419897	6-1
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60-1707T1	1-30	70-2446T1	6-4	90-2342T1	4-19	9421620	8-19
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60-1759T1	10-21	90-1352T91	5-7	90-2443T1	4-1		
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60-1821T1	1-11	90-1412T1	10-56	90-2687T1	4-38		
60-1827T1	1-11	90-1417T1	10-56	90-2689T1	4-38		
60-1828T1	1-11	90-1419T1	10-56	90-2690T91	4-38		
60-1829T1	1-11	90-1420T1	10-56	90-2712T1	4-3		
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60-1937T1	1-7	90-1482T91	10-56	90-2735T1	4-13		
60-1950T1	10-21	90-1483T1	10-56	90-2775T92	4-45		
60-1951T1	1-11	90-1484T1	10-56	90-2785T2	5-7		
60-1952T1	1-11	90-1487T1	10-56	90-2786T1	5-7		
60-1953T1	10-21	90-1502T1	4-3	90-2853T91	4-33		
60-1959T1	10-21	90-1502T1	10-18	90-2864T1	5-7		
60-1960T2	10-21	90-1502T1	10-18	90-2889T1	5-5		
60-1961T2	10-21	90-1536T1	4-13	90-2900T1	5-7		
60-2077	1-23	90-1536T1	4-13	90-2902T1	5-7		
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60-2325T2	3-2	90-1715T1	4-29	90-3341T1	9-4		
60-2367T1	1-36	90-1727T1	10-7	90-3442T1	5-8		
60-2392T1	3-2	90-1728T1	10-7	90-3443T1	5-8		
60-2410T1	3-1	90-1815T1	4-45	90-3444T1	3-8		
60-2410T1	3-2	90-1816T1	4-45	90-3445T1	3-8		



