FORM NO. 3314-418

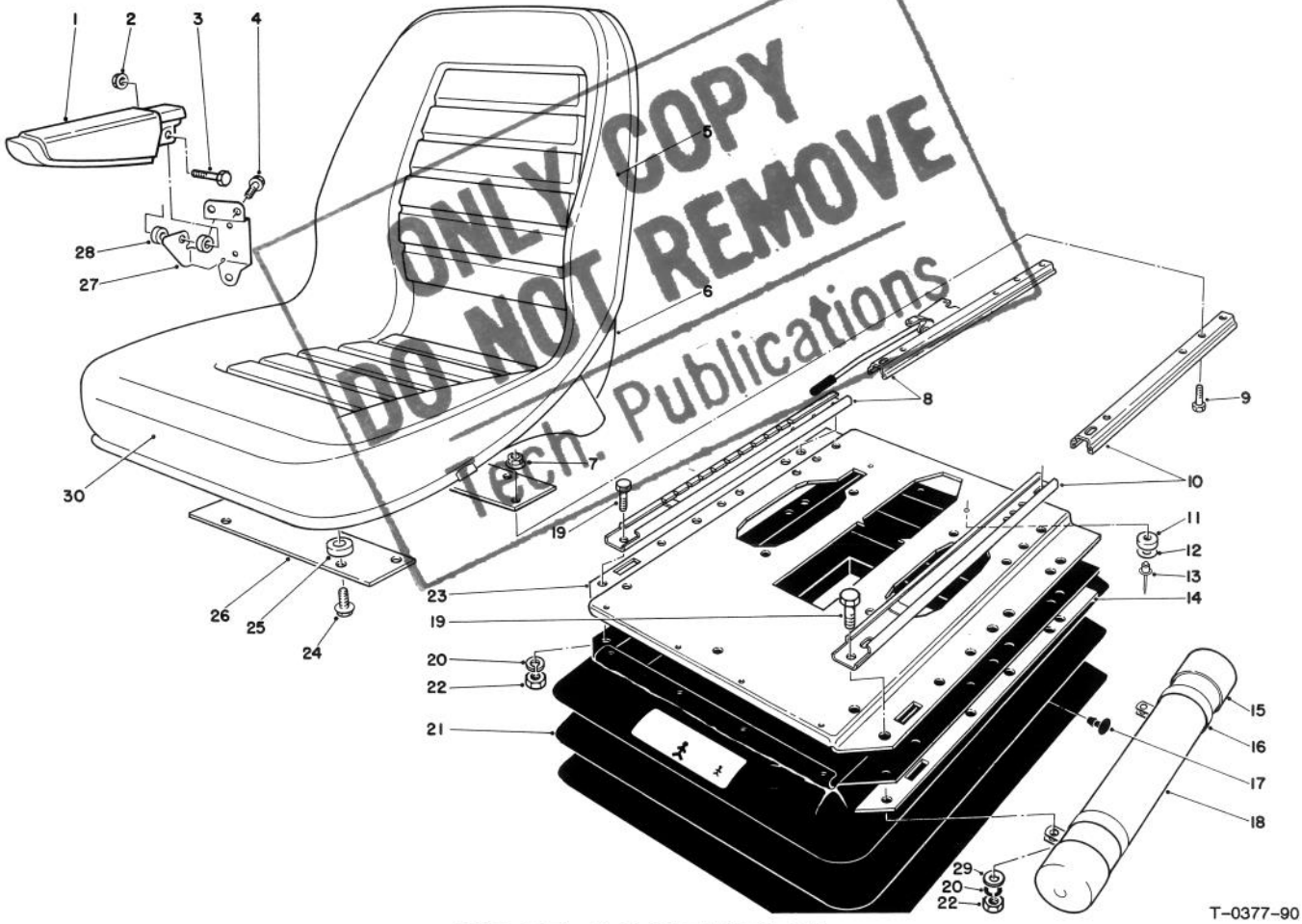
TORO®

MODEL NO. 30580-10001 & UP

PARTS CATALOG

GROUNDSMASTER® 580D

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SEAT ASSEMBLY

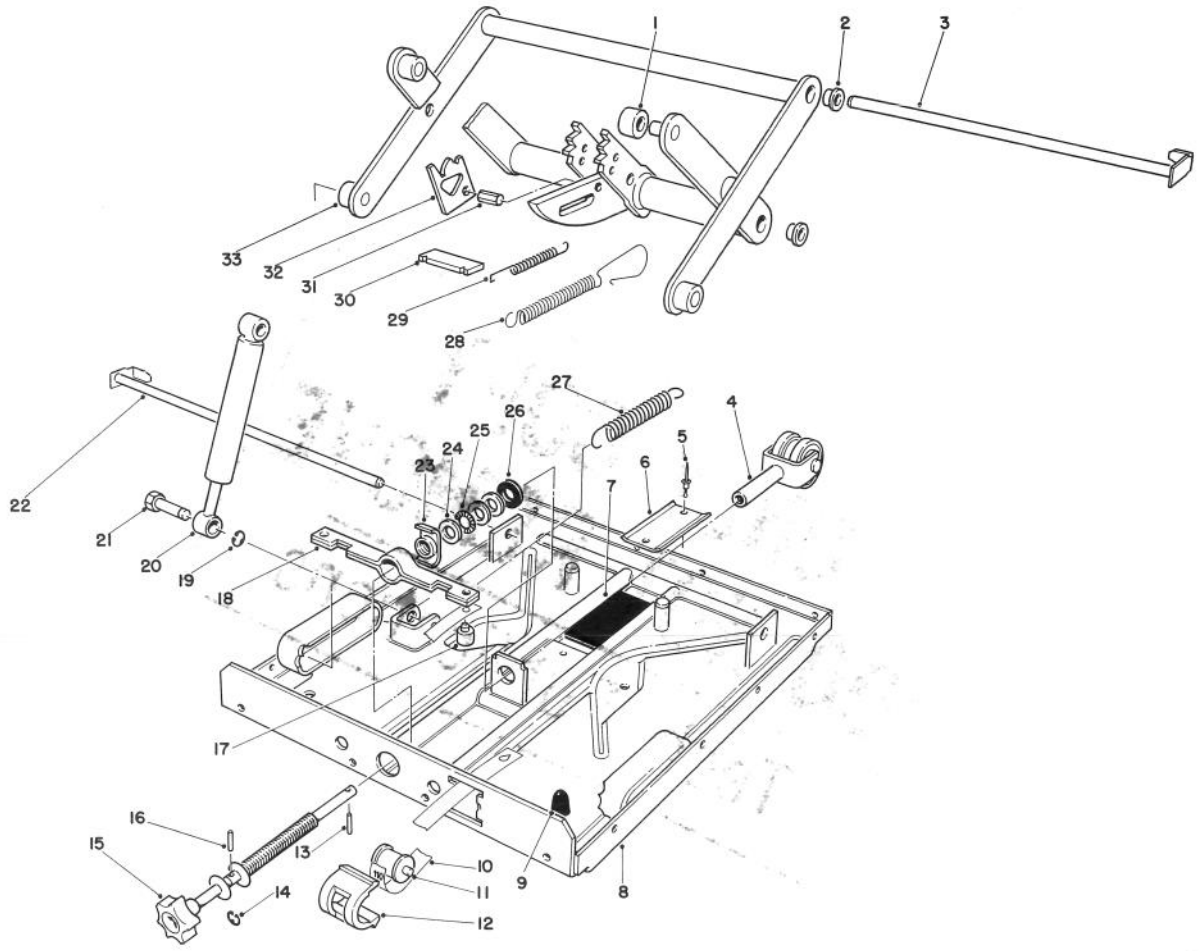
Ref. No.	Part No.	Description	No. Used
1	69-1180	Armrest	2
2	32128-19	Nut - Flange Lock	2
3	323-9	Screw - Cap Hex. Hd.	2
4	3234-23	Screw - Cap Hex. Hd.	6
5	66-5400	Seat Assembly (Incl. Ref. #6)	1
6	67-9560	Shell - Seat	1
7	32128-20	Nut - Flange Lock	4
8	40-3790	Track & Latch - Adjustment	1
9	322-1	Screw - Cap Hex. Hd.	4
10	40-3820	Track - Adjustment	1
11	71-2400	Bumper Assembly (Incl. Ref. #12 & 13)	2
12	71-2380	Washer	2
13	71-2390	Rivet - Pop	2
14	40-3890	Trim	2
15	65-5890	Cap - Tube	2

Ref. No.	Part No.	Description	No. Used
16	2412-102	Clamp - R	2
17	39-5710	Plug	21
18	65-5870	Tube - Manual	1
19	48-9460	Bolt	6
20	48-9570	Washer - Lock	6
21	71-2420	Bellows - Rubber	1
22	48-7930	Nut - Hex.	6
23	71-2410	Upper Suspension Plate (Incl. Ref. #11)	1
24	3234-5	Screw - Hex. Washer Hd.	4
25	48-2920	Spacer	4
26	69-9660	Plate - Seat Adapter	2
27	69-0770	Bracket - Armrest R.H.	1
*	69-0760	Bracket - Armrest L.H.	1
28	69-1260	Spacer	4
29	3256-23	Washer - Flat	2
30	67-9550	Cushion - Seat	1

*Not Illustrated

TPS

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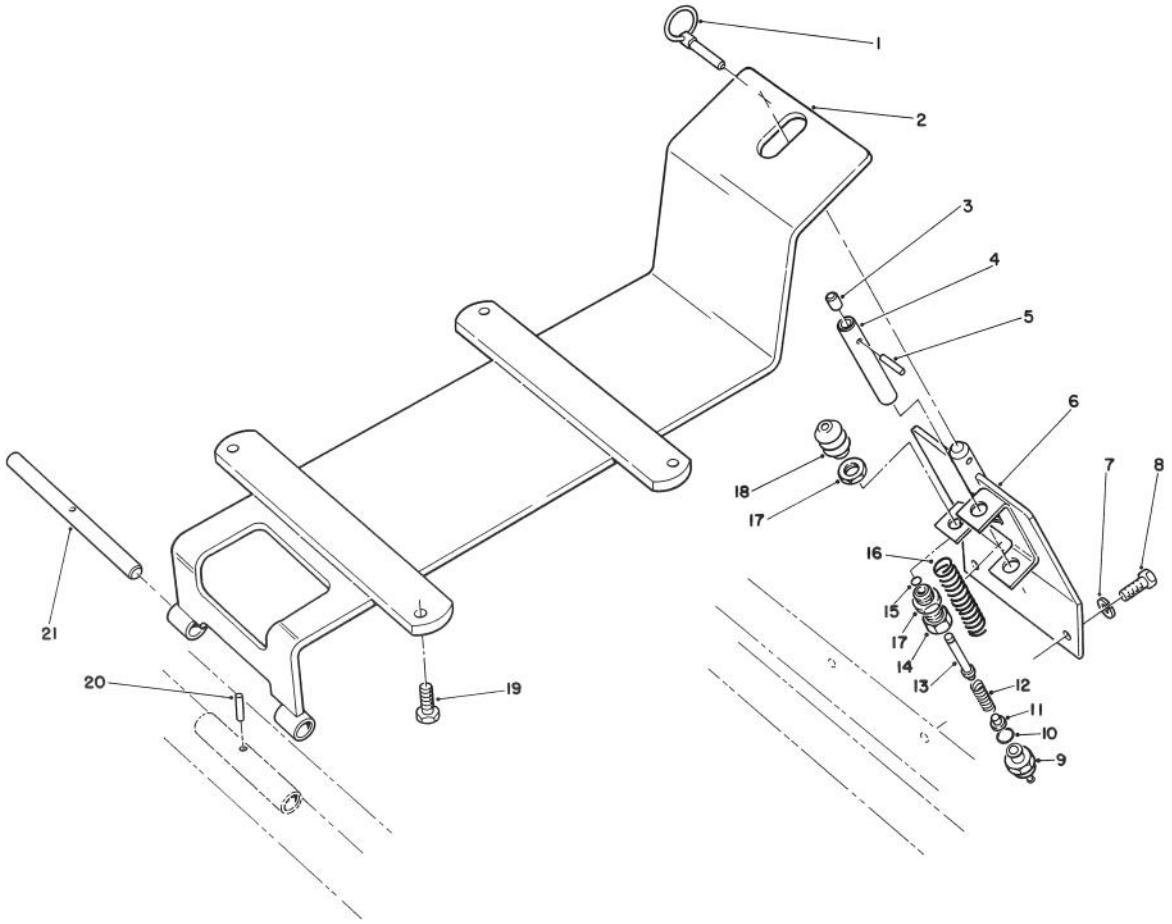
T-0483-90

SEAT SUSPENSION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	40-4010	Roller	4
2	71-2180	Bearing	4
3	71-2190	Pin	1
4	71-2290	Bearing - Trible	1
5	40-4090	Rivet - Pop	2
6	40-4080	Track - U	1
7	40-4120	Plate - Rubber	1
8	71-2310	Plate - Lower Suspension (Incl. Ref. #5-7 & 9)	1
9	71-2300	Bumper	2
10	71-2280	Band - Weight Indicator	1
11	40-4150	Roller	1
12	40-4160	Guide - Sleeve	1
13	71-2210	Pin	1
14	71-2230	Ring - Snap	1
15	71-2240	Knob Assembly (Incl. Ref. #13, 14 & 16)	1
16	71-2220	Pin	1
17	40-4230	Plug	1
18	71-2250	Bracket - Spring	1

Ref. No.	Part No.	Description	No. Used
19	71-2330	Ring - Snap	2
20	71-2340	Absorber - Shock	1
21	71-2320	Pin	2
22	71-2170	Pin	1
23	71-2270	Nut - Special	1
24	40-4070	Washer	3
25	40-4310	Bearing - Thrust Needle	1
26	40-4060	Washer - Rubber	1
27	71-2260	Spring	2
28	40-4340	Spring - Extension	1
29	40-4350	Spring - Extension	2
30	40-4360	Plate	1
31	40-4370	Bolt	1
32	40-4380	Bracket - Release	2
33	71-2200	Bracket - Swing Arm (Incl. Ref. #1-3, 22 & 29-32)	1
*	71-0480	Suspension Assembly (Incl. Ref. #1-33, & 11-13, 17 & 21, from page 1)	1

*Not Illustrated



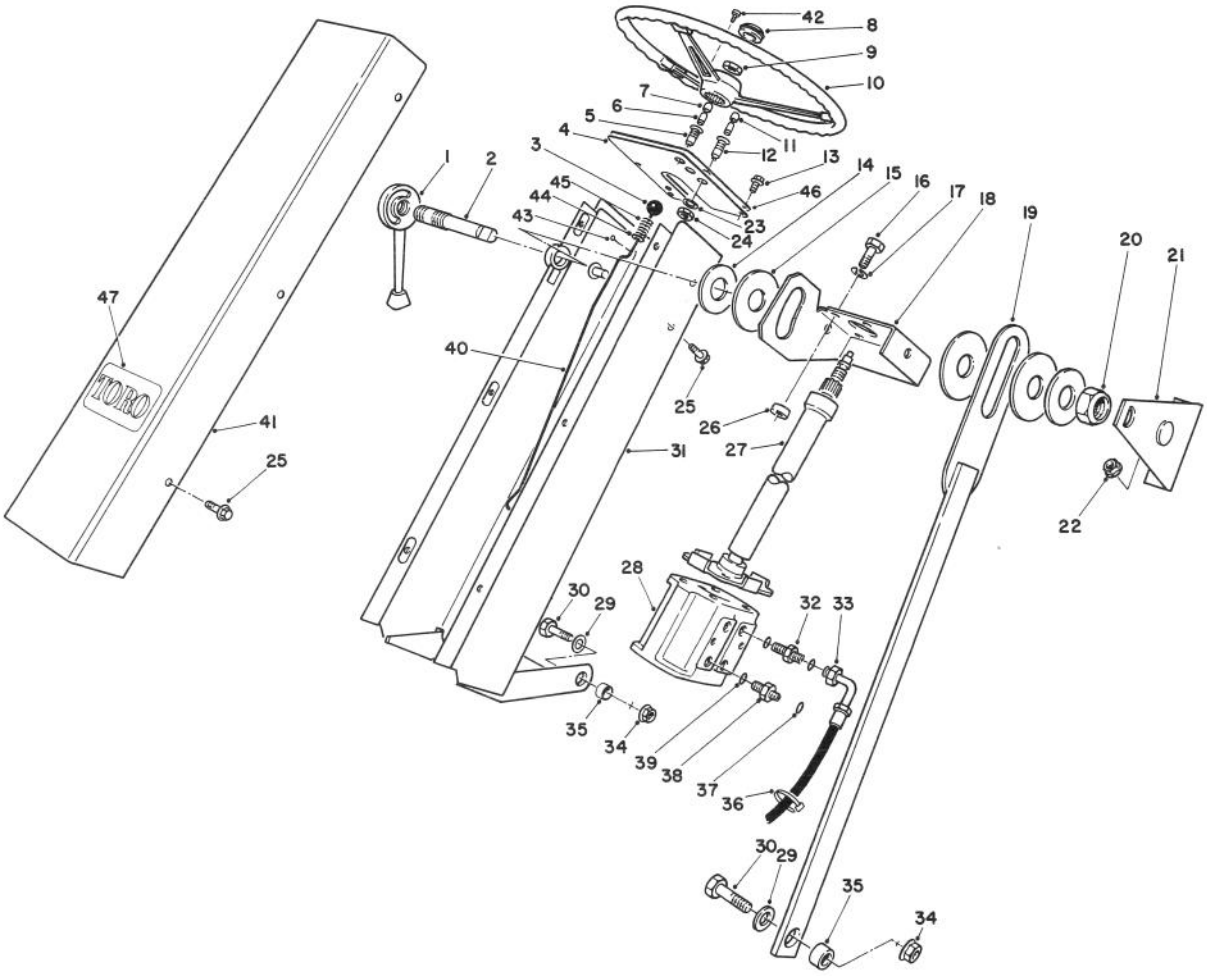
T-0343-90

SEAT PIVOT ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3290-243	Pin - Lynch	1
2	69-7990	Support - Seat	1
3	28-6180	Pin - Plastic	1
4	27-9870	Pin - Seat Switch	1
5	32121-6	Pin - Roll	1
6	69-8020	Bracket - Seat Support	1
7	3253-21	Washer - Lock	2
8	323-6	Screw - Cap Hex. Hd.	2
9	72-4320	Switch - Seat	1
10	237-30	Seal - O-Ring	1
11	43-8610	Guide - Spring & Ball Seat	1
12	43-8600	Spring - Compression	1

Ref. No.	Part No.	Description	No. Used
13	43-8860	Plunger - Switch	1
14	43-8620	Guide - Switch Pin	1
15	237-7	Seal - O-Ring	1
16	37-9780	Spring - Compression	1
17	218-461	Nut - Jam	2
18	43-8870	Boot - Switch	1
19	48-7780	Screw - Cap Hex. Hd.	4
20	32121-4	Pin - Roll	1
21	27-4720	Pin - Seat Pivot	1
*	43-9071	Switch Assembly (Incl. Ref. # 9-15, 17 & 18)	1

*Not Illustrated



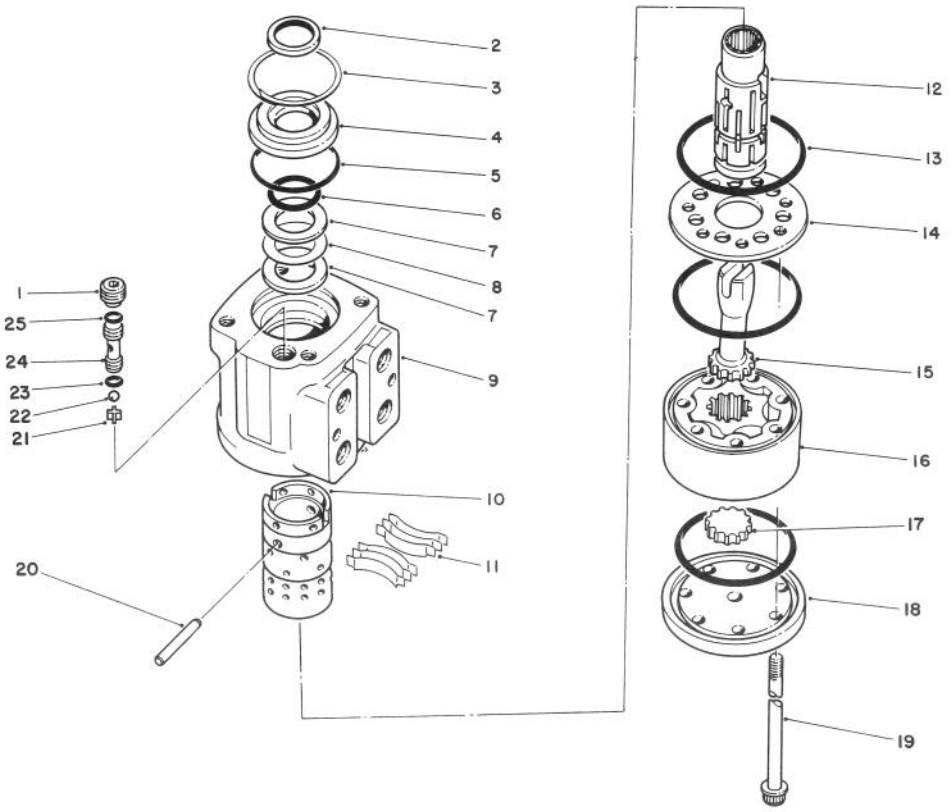
T-0338-90

STEERING TOWER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	69-1560	Lever - Lock	1
2	69-9230	Shaft - Steering Pivot	1
3	233-17	Knob	1
4	69-9440	Panel - Steering Tower	1
5	44-2210	Body - Indicator Light (Incl. Ref. #6-7 & 23-24)	1
†6		Bulb - Indicator Light (#1891)	3
7	218-533	Lens - Indicator Light (Red)	1
8	213-31	Cover - Steering Wheel	1
9	47-6990	Nut - Hex.	1
10	68-8080	Wheel - Steering	1
11	218-562	Lens - Indicator Light (Amber)	2
12	44-2212	Body - Indicator Light (Incl. Ref. #6, 11 & 23-24)	2
13	32144-64	Screw - Hex. Washer Hd.	4
14	20-9500	Spacer	2
15	31-0390	Washer - Friction	3
16	323-7	Screw - Cap Hex. Hd.	4
17	3253-21	Washer - Lock	4
18	69-9540	Bracket - Steering Gear	1
19	69-7760	Link - Steering Gear	1
20	3296-49	Nut - Lock	1
21	69-7740	Support - Steering Gear	1
22	32128-20	Nut - Flange Lock	2
23	218-536	Washer - Lock	3

Ref. No.	Part No.	Description	No. Used
24	218-535	Nut - Hex.	3
25	3234-14	Screw - Hex. Washer Hd.	8
26	46-1600	Spacer	4
27	71-0540	Column - Steering	1
28	69-1850	Valve - Power Steering	1
29	3256-26	Washer - Flat	3
30	325-5	Screw - Cap Hex. Hd.	3
31	69-8160	Tower - Steering	1
32	340-133	Fitting - Hydraulic Straight (Incl. Ref. #37 & 39)	3
33	69-5500	Hose - Hydraulic	4
34	32128-23	Nut - Flange Lock	3
35	28-0380	Spacer	3
36	3290-378	Tie-Cable	5
37	237-22	Seal - O-Ring	4
38	69-6980	Valve - Check (Incl. Ref. # 37 & 39)	1
39	237-79	Seal - O-Ring	4
40	71-4060	Rod - Brake Latch	1
41	69-8510	Cover - Steering Tower	1
42	32144-96	Screw - Mach. Round Hd.	3
43	3272-5	Pin - Cotter	1
44	3256-22	Washer - Flat	1
45	3-3251	Spring - Compression	1
46	69-0970	Panel - Control	1
47	62-5550	Decal	1

†Obtain Locally



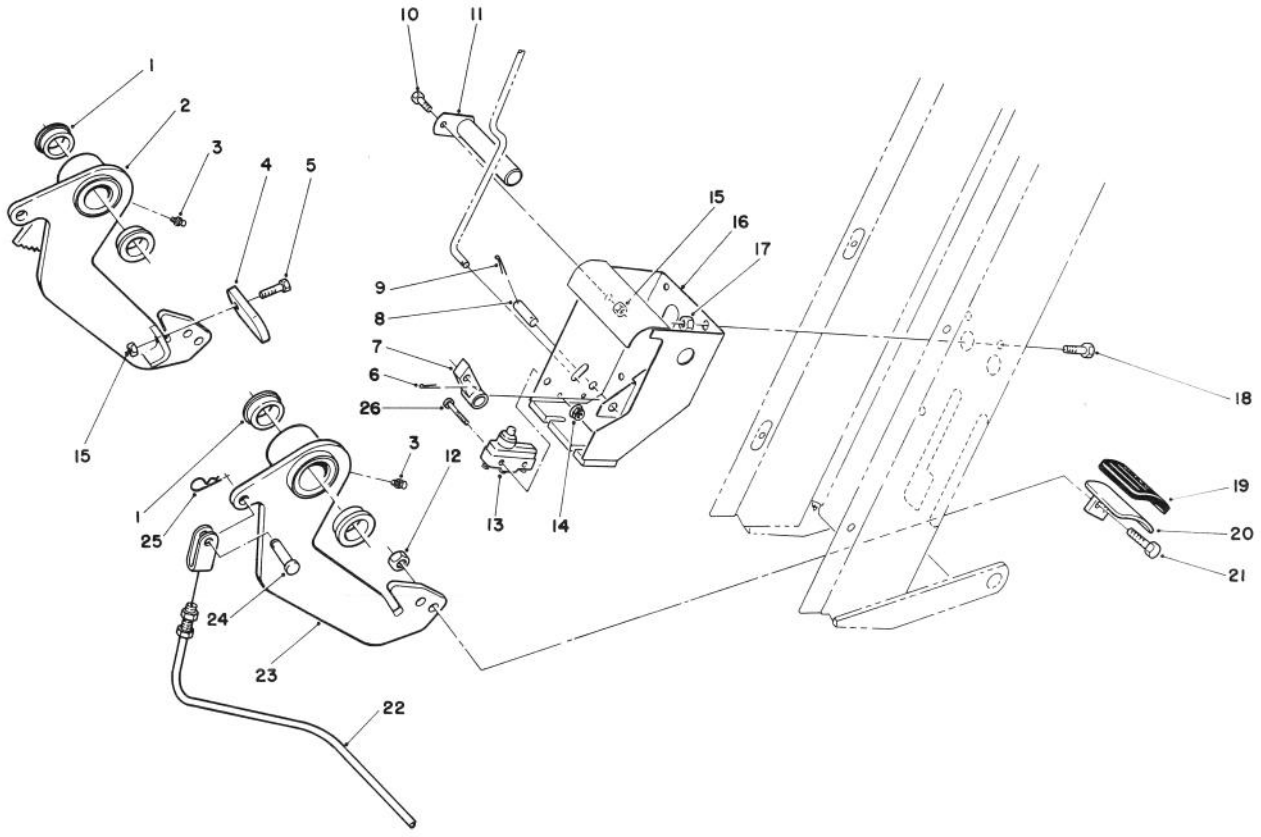
T-0383-90

POWER STEERING VALVE ASSEMBLY NO. 69-1850

Ref. No.	Part No.	Description	No. Used
1	52-9260	Screw - Set	1
†2		Seal - 1" ID	1
3	52-9230	Ring - Retaining	1
4	52-9240	Bushing - Gland Seal	1
†5		Seal - 1.875" ID	1
†6		Seal - Quad Ring	1
7	59-6730	Race - Bearing	2
8	59-6740	Bearing - Needle Thrust	1
†9		Housing	1
†10		Sleeve - Control	1
11	59-6820	Centering Spring Kit	1
†12		Spool - Control	1
†13		Seal	3
14	59-6850	Plate - Spacer	1
15	59-6860	Drive	1
16	69-1860	Gerotor	1

Ref. No.	Part No.	Description	No. Used
17	69-1880	Spacer	1
18	59-6890	Cap - End	1
19	69-1870	Screw - Cap	7
20	59-6830	Kit - Centering Pin	1
21	52-9290	Retainer - Check Ball	1
22	52-9280	Ball - Check	1
†23		Seal	1
24	52-9270	Seat - Check Ball	1
†25		Seal	1
*	52-9250	Needle Bearing Kit (Incl. Ref. #7-8)	1
*	59-6810	Control Parts Assembly (Incl. Ref. #9-12 & 20)	1
*	49-0170	Seal Kit (Incl. Ref. #2, 5-6, 13, 23 & 25)	1

*Not Illustrated
†Not Serviceable Separately



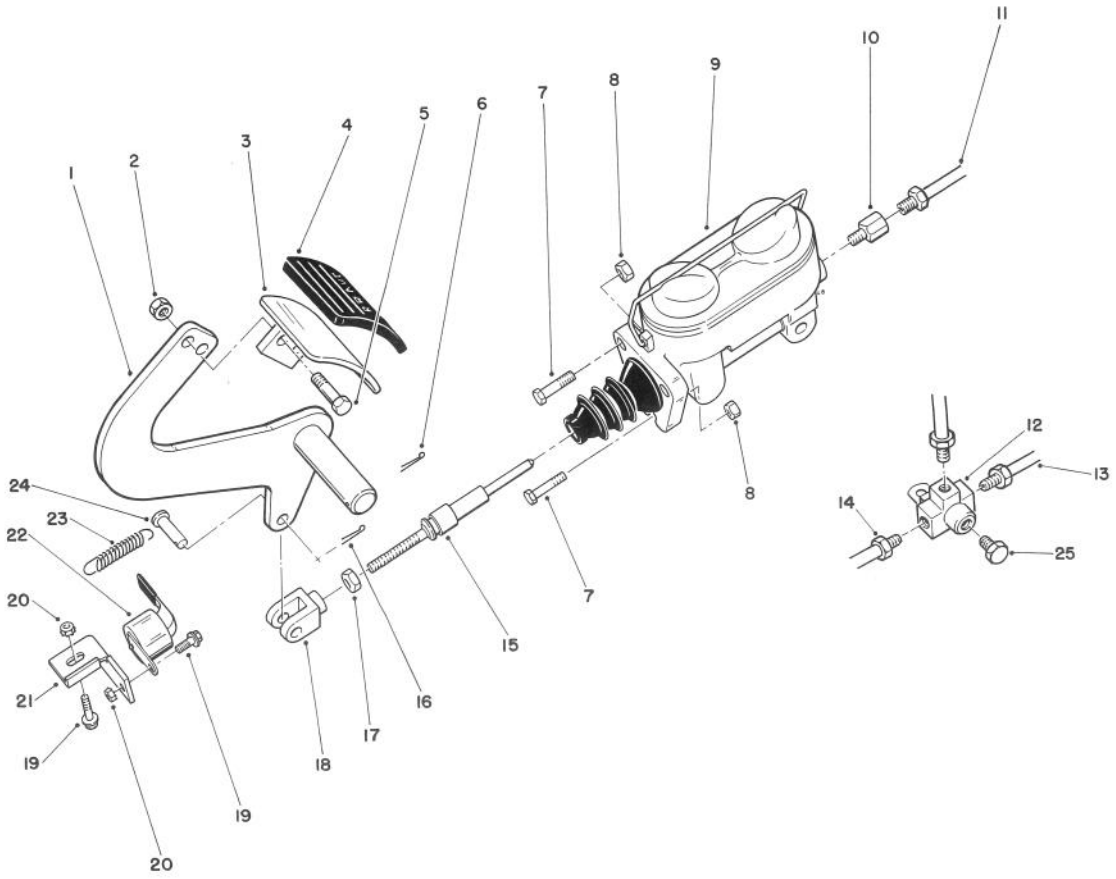
T-0339A-90

STEERING BRAKE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	256-247	Bushing - Flange	4
2	69-7890	Arm - Brake R.H. (Incl. Ref. #1 & 3)	1
3	302-5	Fitting - Grease	2
4	69-9210	Lever - Brake Latch	1
5	321-4	Screw - Cap Hex. Hd.	1
6	3272-5	Pin - Cotter	1
7	69-7720	Pawl - Brake	1
8	69-9200	Pin - Brake Pawl	1
9	3272-6	Pin - Cotter	2
10	321-2	Screw - Cap Hex. Hd.	1
11	69-7790	Pin - Brake Arm	1
12	32152-1	Nut - Lock	4
13	29-6162	Switch - Micro	1
14	3296-9	Nut - Lock	2

Ref. No.	Part No.	Description	No. Used
15	32152-4	Nut - Lock	2
16	69-7840	Mount - Brake Arm	1
17	32128-20	Nut - Lock	3
18	3234-14	Screw - Cap Hex. Hd.	3
19	49-6171	Pad - Brake Pedal L.H.	1
*	49-6172	Pad - Brake Pedal R.H.	1
20	69-7700	Pedal - Brake	2
21	323-4	Screw - Cap Hex. Hd.	4
22	69-5670	Cable - Brake	2
23	69-7880	Arm - Brake L.H. (Incl. Ref. #1 & 3)	1
24	283-1	Pin - Clevis	2
25	3290-307	Pin - Cotter, Hair	2
26	3249-11	Screw - Machine	2
*	3290-378	Tie - Cable	3

*Not Illustrated

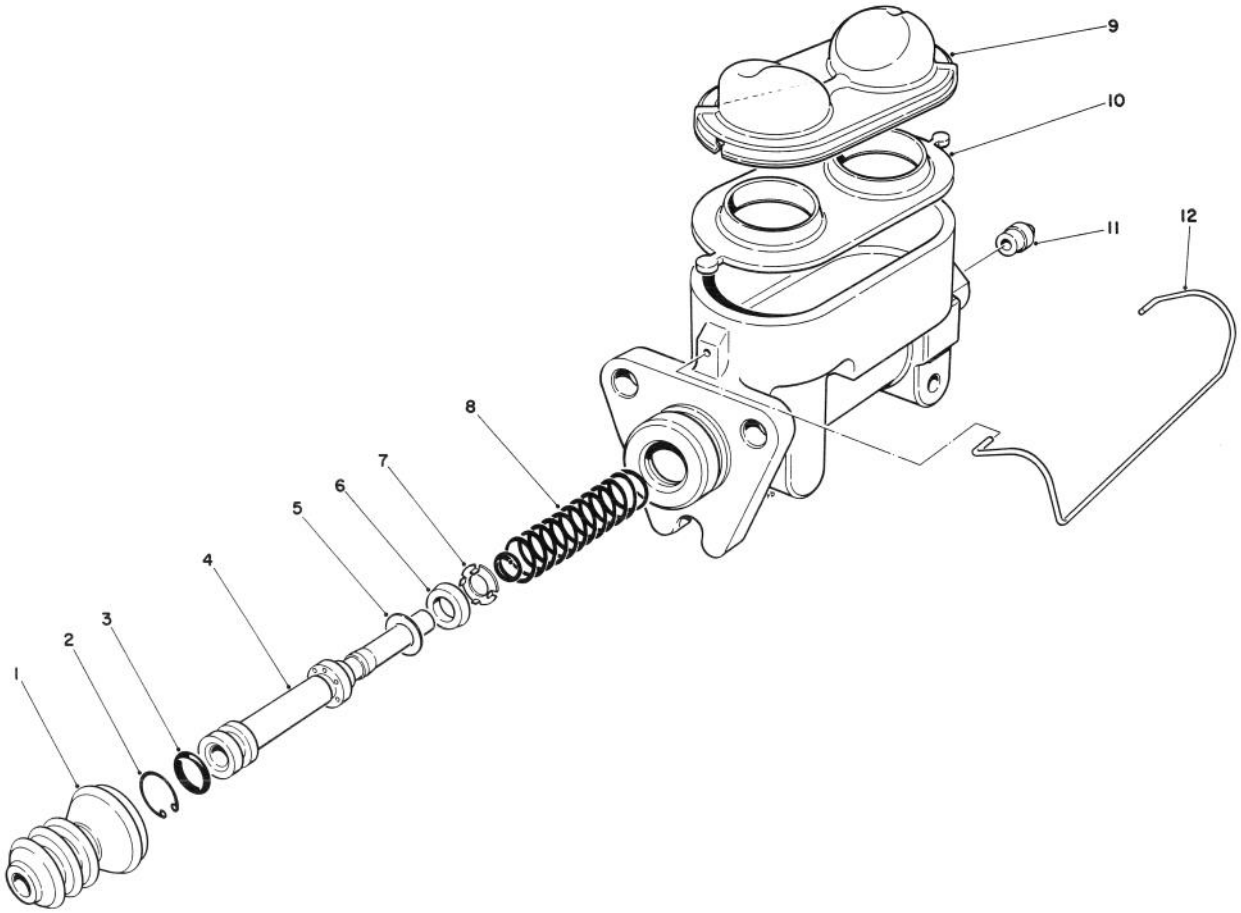


T-0341-90

SERVICE BRAKE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	69-8750	Arm - Brake	1
2	32152-1	Nut - Lock	2
3	69-7700	Pedal - Brake	1
4	49-6170	Pad - Brake	1
5	322-3	Screw - Cap Hex. Hd.	2
6	3272-12	Pin - Cotter	1
7	323-7	Screw - Cap Hex. Hd.	3
8	32128-21	Nut - Lock	3
9	69-2640	Master Cylinder Assembly	1
10	353-994	Adapter	1
11	74-2530	Tube - Hydraulic	1
12	304-2	Fitting - Tee	1
13	74-2510	Tube - Hydraulic L.H.	1

Ref. No.	Part No.	Description	No. Used
14	74-2520	Tube - Hydraulic R.H.	1
15	69-9340	Rod - Brake	1
16	3272-10	Pin - Cotter	1
17	3220-2	Nut - Jam	1
18	282-2	Clevis - Brake Rod	1
19	3234-13	Screw - Hex. Washer Hd.	2
20	32149-2	Nut - Keps	2
21	69-9160	Bracket - Brake Switch	1
22	69-0750	Switch - Brake	1
23	21-1830	Spring - Extension	1
24	283-1	Pin - Clevis	1
25	281-7	Plug - Pipe	1

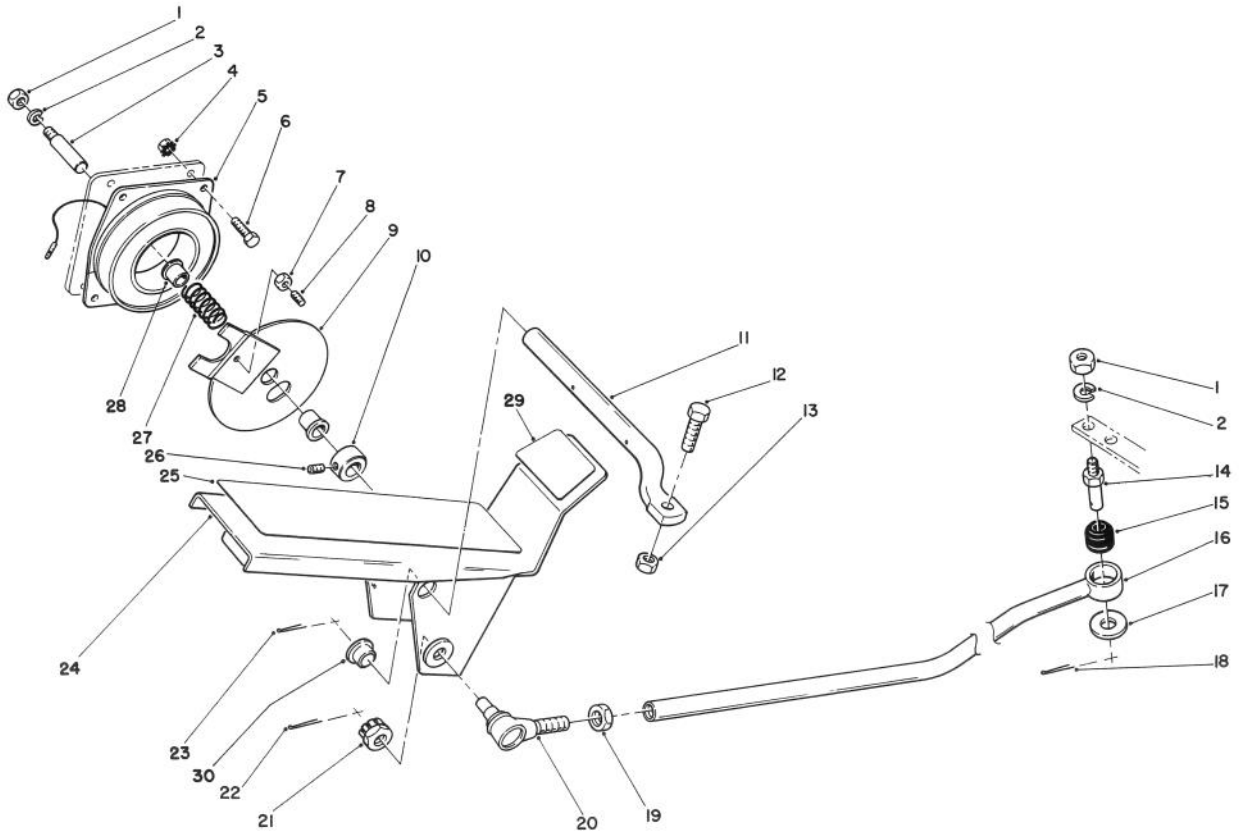


T-0384-90

BRAKE SYSTEM MASTER CYLINDER NO. 69-2640

Ref. No.	Part No.	Description	No. Used
1	69-2650	Boot - Rod	1
2	69-2660	Ring - Retaining	1
†3		Seal - Lip	1
†4		Piston	1
†5		Protector - Cup	1
†6		Cup - Pumping	1
†7		Retainer - Cup	1
†8		Spring - Piston Return	1
9	69-2750	Cover - Reservoir	1
10	69-2760	Gasket - Diaphragm	1
11	69-2770	Seat - Tube	1
12	69-2740	Bail - Cover	1
*	69-2730	Piston Assembly (Incl. Ref. #3-8)	1

*Not Illustrated
†Not serviceable separately.

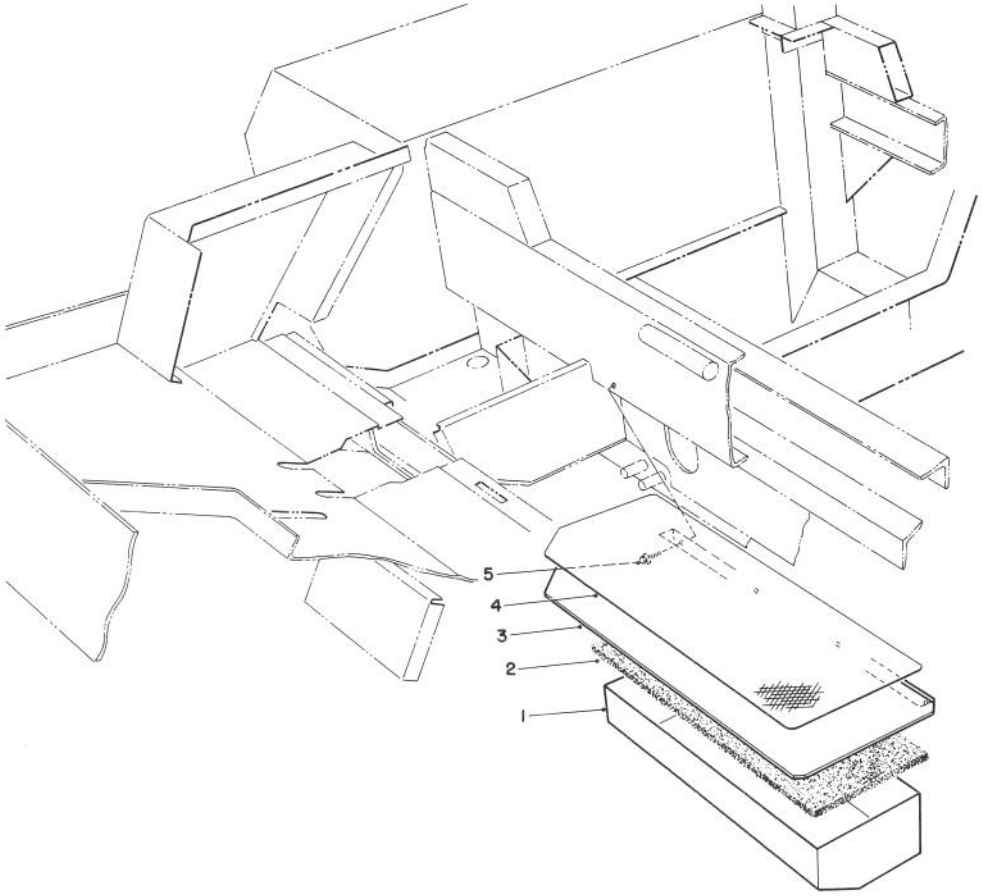


T-0351-90

TRACTION PEDAL & CRUISE CONTROL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3217-7	Nut - Lock	2
2	3253-21	Washer - Lock	2
3	69-9170	Shaft - Cruise Control	1
4	32149-2	Nut - Keps	4
5	42-1720	Field Core Coil Assembly	1
6	321-3	Screw - Cap Hex. Hd.	4
7	3217-26	Nut - Lock	1
8	3245-31	Screw - Set	1
9	43-6110	Plate - Clutch	1
10	43-6320	Collar - Locking	1
11	69-9390	Shaft - Pedal	1
12	3234-14	Screw - Cap Hex. Hd.	1
13	32128-20	Nut - Lock	1
14	69-9030	Post - Neutral Device	1
15	23-2270	Bushing - Rubber	1

Ref. No.	Part No.	Description	No. Used
16	74-2700	Rod - Control	1
17	3256-6	Washer - Flat	1
18	3272-10	Pin - Cotter	1
19	3220-5	Nut - Jam	1
20	21-0140	Joint - Ball (Incl. Ref. #21)	1
21	32136-4	Nut - Castle	1
22	3272-6	Pin - Cotter	1
23	3272-7	Pin - Cotter	2
24	69-7650	Pedal - Traction	1
25	71-0440	Abrasive - Pedal Front	1
26	3245-32	Screw - Set	1
27	43-6200	Spring - Compression	1
28	256-273	Bushing - Flange	2
29	71-0450	Abrasive - Pedal Rear	1
30	256-156	Bushing - Flange	2

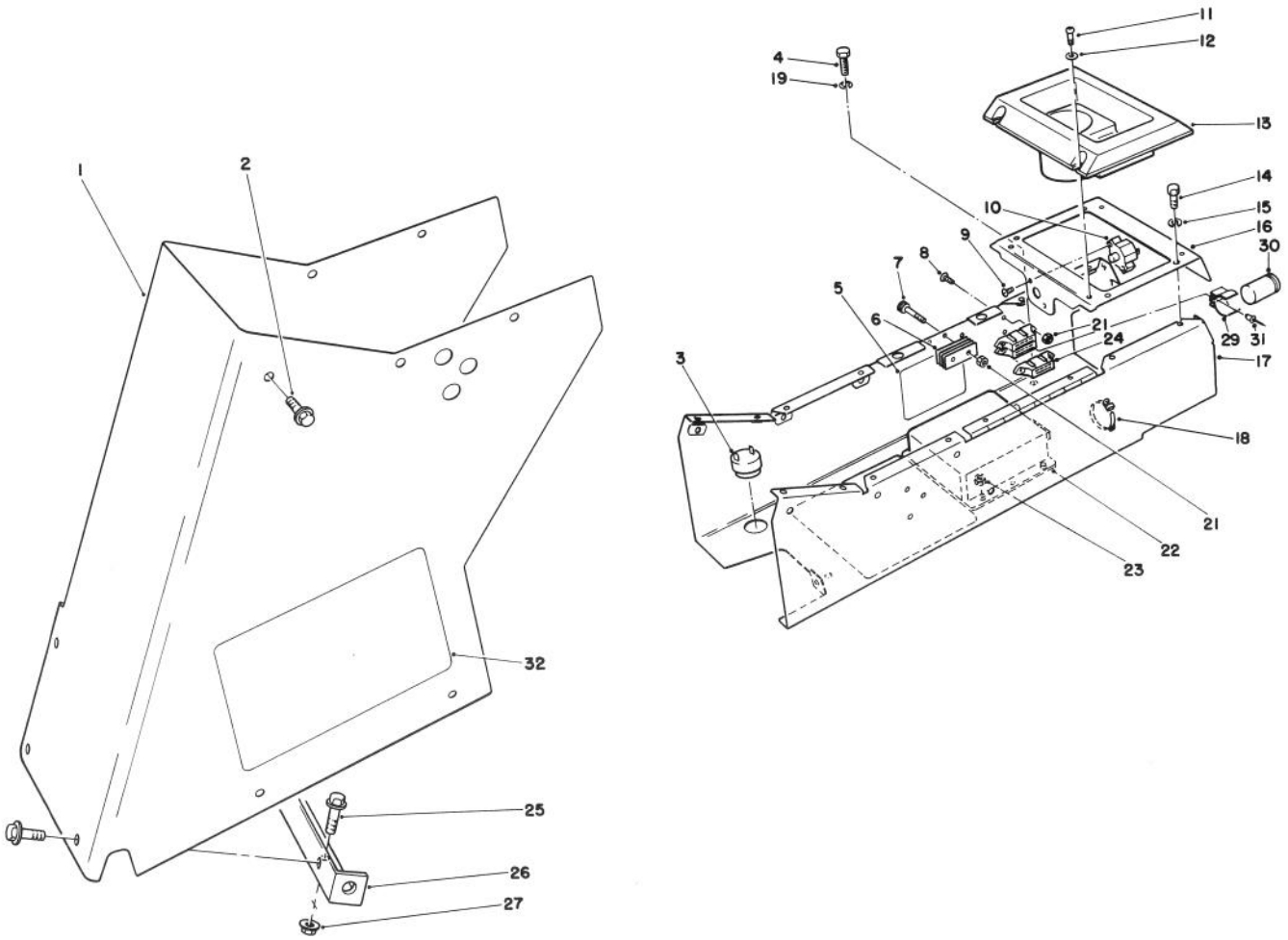


T-0876-90

TOOL BOX ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	69-8110	Box - Tool	1
2	69-9430	Foam - Tool Box	1
3	69-8080	Cover - Tool Box	1

Ref. No.	Part No.	Description	No. Used
4	71-0410	Cover - Abrasive	1
5	3234-14	Screw - Hex. Flange Hd.	4



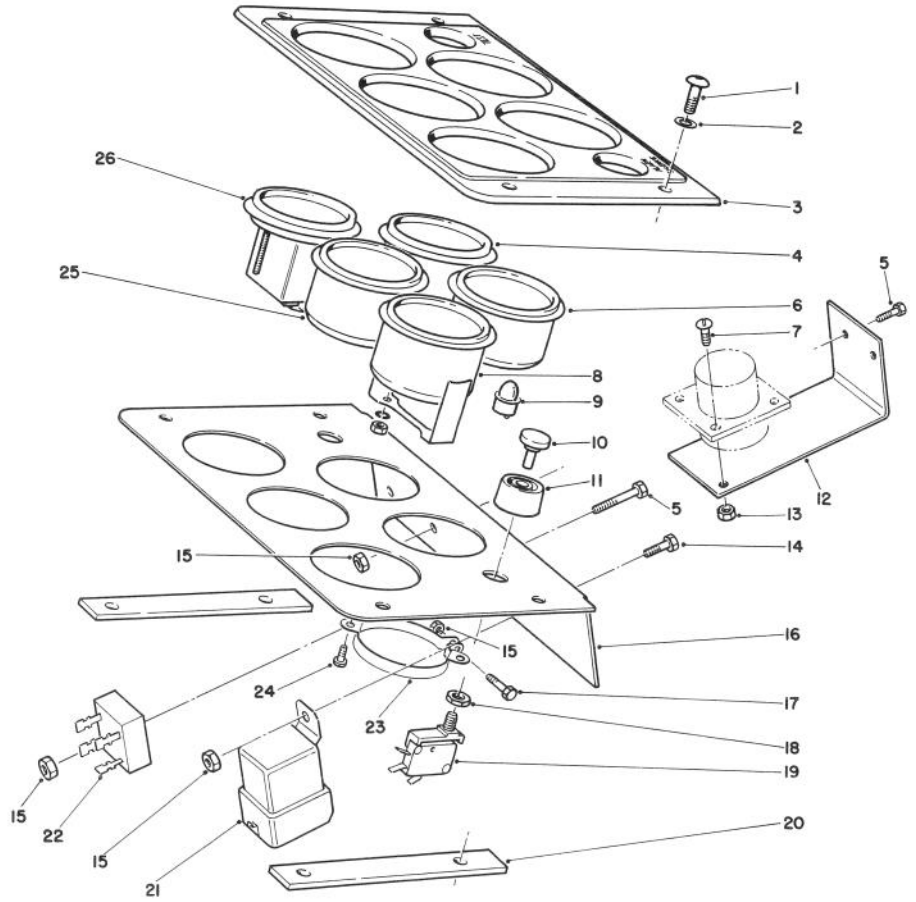
T-0340B-90

CONTROL BOX ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	69-9560	Housing - Control	1
2	3234-7	Screw - Hex. Washer Hd.	11
3	71-4180	Alarm - Audio	1
4	323-4	Screw - Cap Hex. Hd.	4
5	71-4270	Decal - Fuse	1
6	69-6260	Magnet	1
7	32105-1	Screw - Hex. Socket Hd.	2
8	32105-13	Screw - Round Hd.	4
9	32122-53	Screw - Round Hd.	2
10	43-4000	Breaker - Circuit 40A	1
11	3290-133	Screw - Round Hd.	4
12	3256-22	Washer - Flat	4
13	69-7040	Holder - Cup	1
14	321-3	Screw - Cap Hex. Hd.	4
15	3253-3	Washer - Lock	4
16	71-2430	Plate - Rear	1
17	71-4130	Support - Control	1
18	3290-378	Tie - Cable	2
19	3253-21	Washer - Lock	4

Ref. No.	Part No.	Description	No. Used
21	3296-2	Nut - Lock	6
22	71-2480	Controller	1
23	32149-7	Nut - Keps	3
24	67-7160	Block - Fuse	3
25	3234-14	Screw - Cap Hex. Hd.	2
26	69-8210	Support - Cover	1
27	32128-20	Nut - Flange Lock	2
29	74-2310	Clamp - Plastic	1
30	37-2690	Capacitor	1
31	3296-15	Rivet - Pop	2
32	80-4890	Decal - Service	1
*	69-0070	Wire Harness Assembly (Incl. *Diode Part No. 218-586 & Ref. #24)	1
*	218-586	Diode	1
*	218-573	Fuse - 5A	9
*	218-578	Fuse - 10A	1
*	218-581	Fuse - 15A	1
*	3290-378	Tie - Cable	25

*Not Illustrated



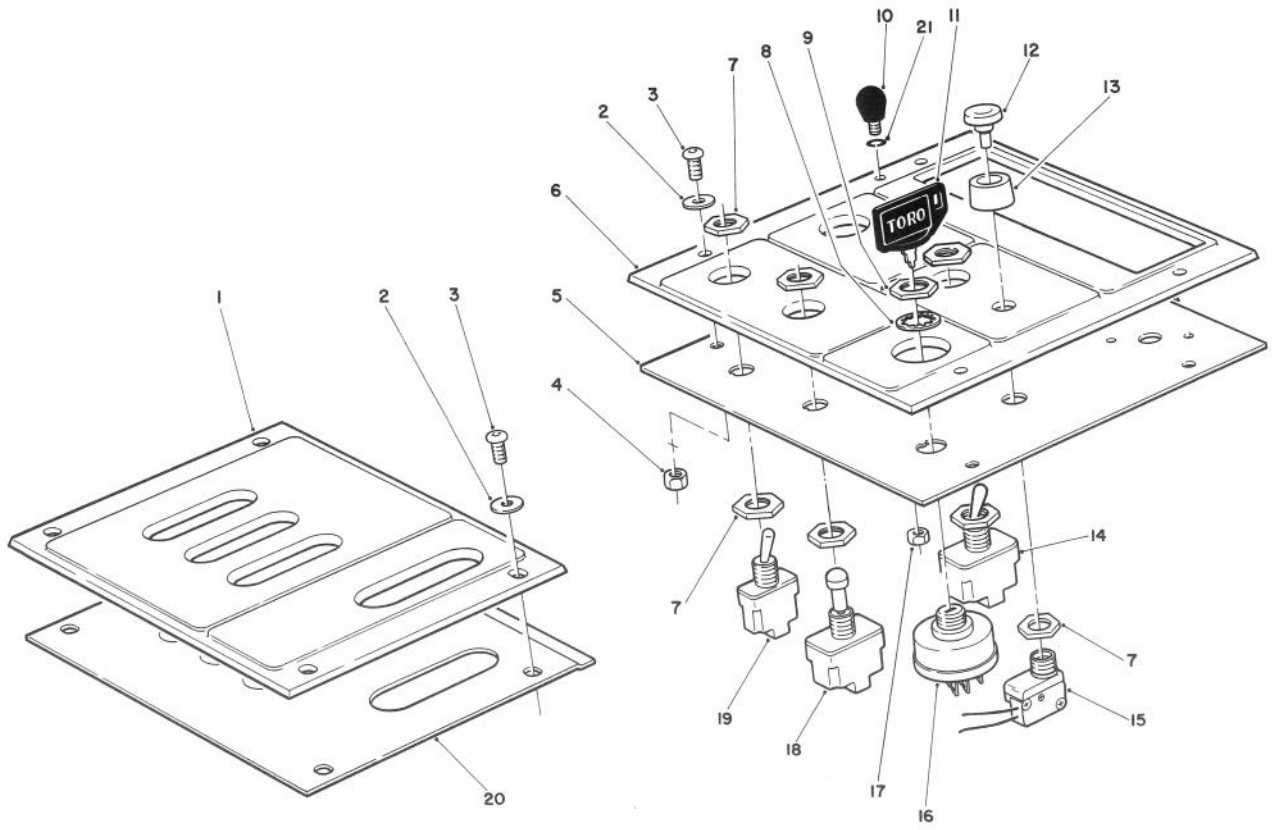
T-0877-90

UPPER CONTROL PANEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3290-133	Screw - Round Hd.	4
2	3256-23	Washer	4
3	71-4230	Panel	1
4	71-4210	Cluster - Warning Light	1
5	32105-13	Hex. Hd.	6
6	71-4200	Cluster - Warning Light	1
7	3290-330	Screw - Round Hd.	2
8	63-7430	Gauge - Temperature	1
9	219-17	Bulb - Light	8
10	43-6280	Button	2
11	43-6420	Bezel	2
12	69-9320	Bracket - Connector	1
13	3296-9	Nut - Lock	2
14	3290-321	Screw - Hex. Hd.	1

Ref. No.	Part No.	Description	No. Used
15	3296-2	Nut - Lock	9
16	71-4220	Plate	1
17	32105-1	Screw - Cap Hex. Hd.	2
18	218-498	Nut	2
19	43-6290	Switch (Incl. Ref. #18)	2
20	71-4250	Spacer	2
21	63-7590	Relay	1
22	37-7600	Rectifier	4
23	69-4780	Clamp - Gauge	2
24	32144-39	Screw - Round Hd.	4
25	66-2940	Gauge - Fuel	1
26	66-2950	Hourmeter	1
*	71-4240	Wire Harness - Gauge	1

*Not Illustrated

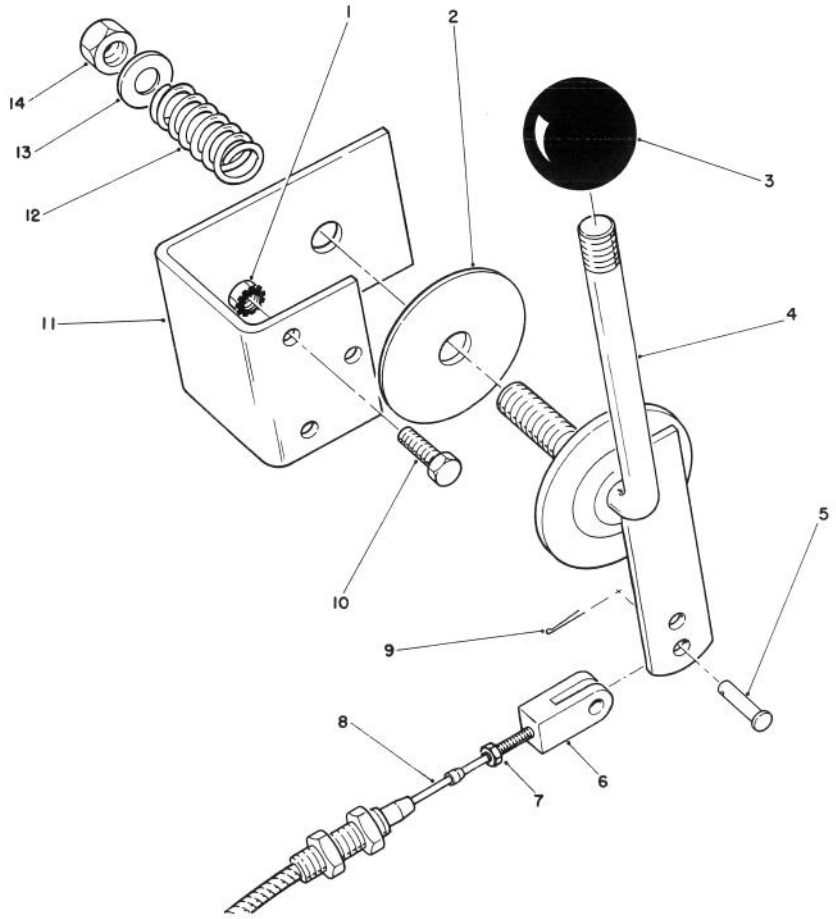


T-0371-90

LOWER CONTROL PANEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	69-0980	Panel - Lever	1
2	3256-22	Washer - Flat	8
3	3290-133	Screw - Round Hd.	8
4	3296-42	Nut - Lock	4
5	71-2460	Plate - Control	1
6	69-0990	Panel - Control	1
7	218-498	Nut - Hex	10
8	218-447	Washer - Lock	1
9	218-446	Nut - Hex	1
10	233-66	Knob	1
11	63-8360	Key - Ignition	1
12	43-6280	Button - Switch	2
13	43-6420	Bezel - Switch	2

Ref. No.	Part No.	Description	No. Used
14	69-9740	Switch - Toggle (Incl. Ref. #7)	1
15	72-9760	Switch - Push Button (Incl. Ref. #7, 12 & 13)	2
16	27-2360	Switch - Ignition (Incl. Ref. #8 & 9)	1
17	3290-392	Nut - Lock	1
18	69-9730	Switch - Toggle (Incl. Ref. #7)	1
19	71-4170	Switch - Toggle (Incl. Ref. #7)	1
20	69-9310	Plate - Lever	1
21	3253-15	Washer - Lock	A/R



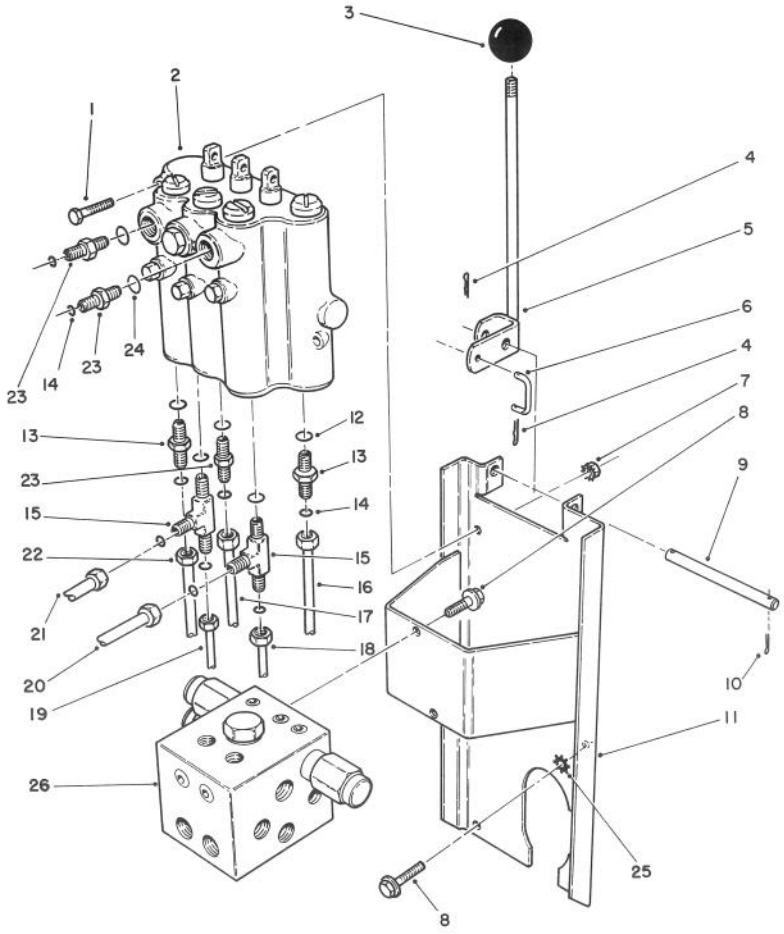
T-0352A-90

THROTTLE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3296-42	Nut - Keps	3
2	3-2858	Disc - Friction	1
3	233-48	Knob	1
4	69-8040	Arm - Throttle	1
5	283-67	Pin - Clevis Arm End	1
*	69-0090	Pin - Clevis Engine End	1
6	282-28	Clevis - Adjustable	2
7	3219-14	Nut - Hex.	2

Ref. No.	Part No.	Description	No. Used
8	77-2990	Cable - Throttle	1
9	3272-1	Pin - Cotter	3
10	321-3	Screw - Cap Hex. Hd.	3
11	69-9130	Bracket - Throttle	1
12	3-8596	Spring - Compression	1
13	3256-26	Washer - Flat	1
14	3296-23	Nut - Lock	1

*Not Illustrated



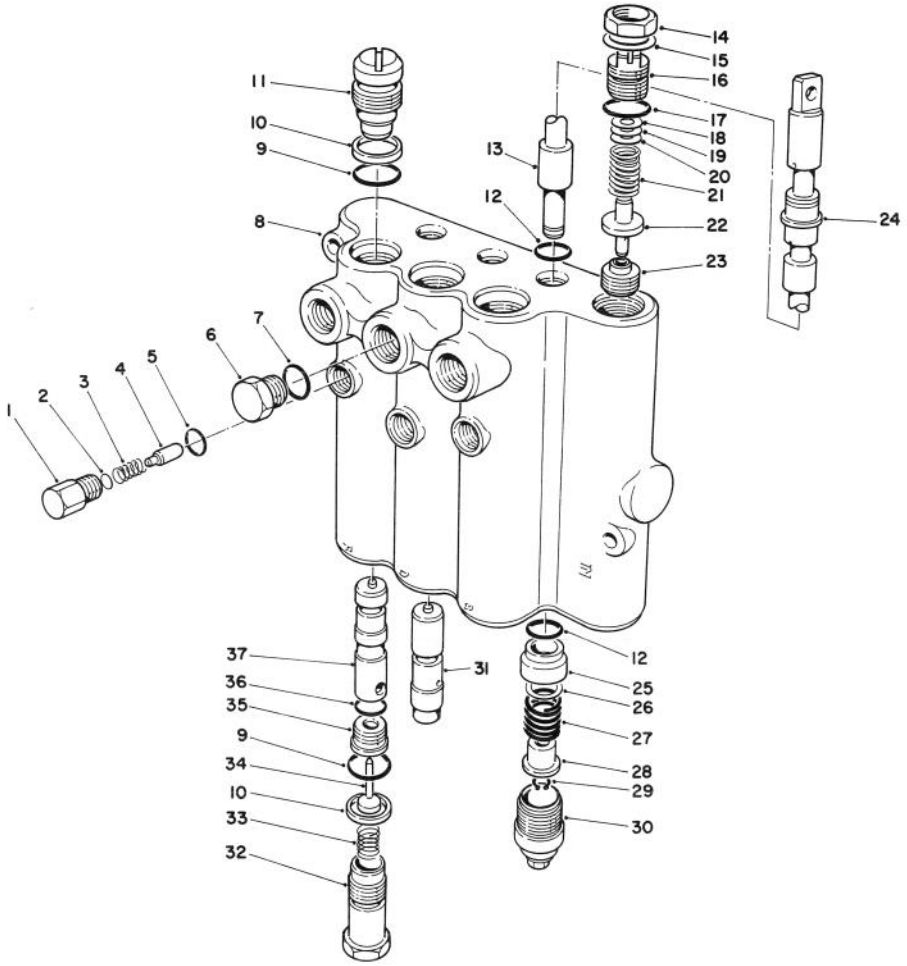
T-0355-90

LIFT VALVE INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	321-10	Screw - Cap Hex. Hd.	2
2	69-1780	Lift Valve Assembly	1
3	233-42	Knob	3
4	3272-1	Pin - Cotter	6
5	69-7010	Lever - Valve L.H.	1
*	69-6990	Lever - Valve Mid.	1
*	69-7000	Lever - Valve R.H.	1
6	69-9140	Link - Valve Lever	3
7	32149-2	Nut - Keps	2
8	3234-14	Screw - Hex. Flange Hd.	6
9	69-9150	Shaft - Valve Lever	1
10	3272-6	Pin - Cotter	2
11	69-7810	Bracket - Valve	1
12	237-79	Seal - O-Ring	2
13	340-3	Fitting - Hydraulic Straight (Incl. Ref. #12 & 14)	2

Ref. No.	Part No.	Description	No. Used
14	237-22	Seal - O-Ring	9
15	340-86	Fitting - Hydraulic Tee (Incl. Ref. #14 & 24)	2
16	69-5860	Tube - Hydraulic	1
17	69-5720	Tube - Hydraulic	1
18	69-5700	Tube - Hydraulic	1
19	69-5740	Tube - Hydraulic	1
20	69-5680	Tube - Hydraulic	1
21	69-5890	Tube - Hydraulic	1
22	69-5870	Tube - Hydraulic	1
23	340-2	Fitting - Hydraulic Straight (Incl. Ref. #14 & 24)	3
24	237-42	Seal - O-Ring	5
25	3254-6	Washer - Lock	1
26	69-4060	Counterbalance Manifold Assembly	1

*Not Illustrated



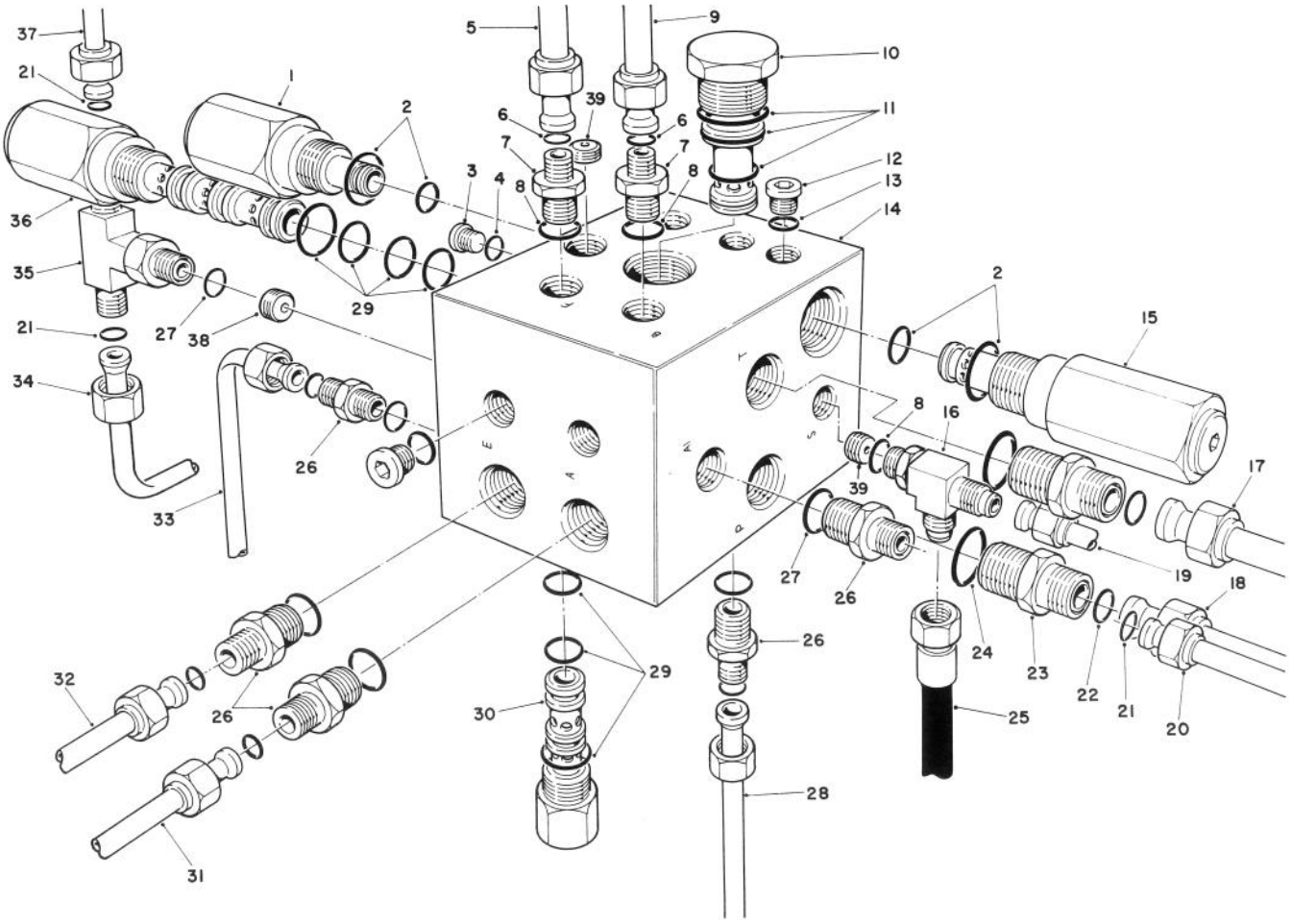
T-0379-90

LIFT VALVE ASSEMBLY NO. 69-1780

Ref. No.	Part No.	Description	No. Used
1	58-6780	Plug Assy. (Incl. Ref. #5)	3
2	60-6450	Disc	A/R
3	58-6760	Spring	3
4	58-6770	Plunger - Detent	3
5	58-6790	Seal - O-Ring	3
6	58-6710	Plug Assy. (Incl. Ref. #7)	1
7	58-6720	Seal - O-Ring	1
†8		Body	1
9	60-5720	Seal - O-Ring	6
10	58-6370	Washer - Back-Up	6
11	58-6350	Plug Assembly (Incl. Ref. #9-10)	3
12	58-6450	Seal - O-Ring	6
†13		Spool	3
14		Nut - Lock	1
15		Washer	1
16	69-1830	Plug Assembly (Incl. Ref. #14, 15 & 17)	1
17	58-6750	Seal - O-Ring	1
18	58-6470	Washer	A/R
19	58-6480	Washer	A/R
20	58-6490	Washer	A/R

Ref. No.	Part No.	Description	No. Used
21	69-1820	Spring - Black	1
22	58-6440	Poppet	1
†23		Seat	1
24	58-6320	Wiper - Seal	3
25	58-6400	Bushing	3
26	58-6700	Washer	3
27	58-6730	Spring	3
28	58-6310	Spacer	3
29	58-6460	Ring - Retaining	3
30	58-6420	Cap Assembly	3
31	69-1840	Plunger	1
32	69-1800	Plug Assembly (Incl. Ref. #9-10)	3
33	69-1810	Spring	3
34	58-6290	Poppet Assembly	3
35	58-6330	Seat Assy. (Incl. Ref. #36)	3
36	58-6340	Seal - O-Ring	3
37	69-1790	Plunger	2
*	60-3780	Seal Kit (Incl. Ref. #5, 7, 9, 10, 12, 17, 24, 29, 34, & 36)	

*Not Illustrated
†Not Serviceable Separately

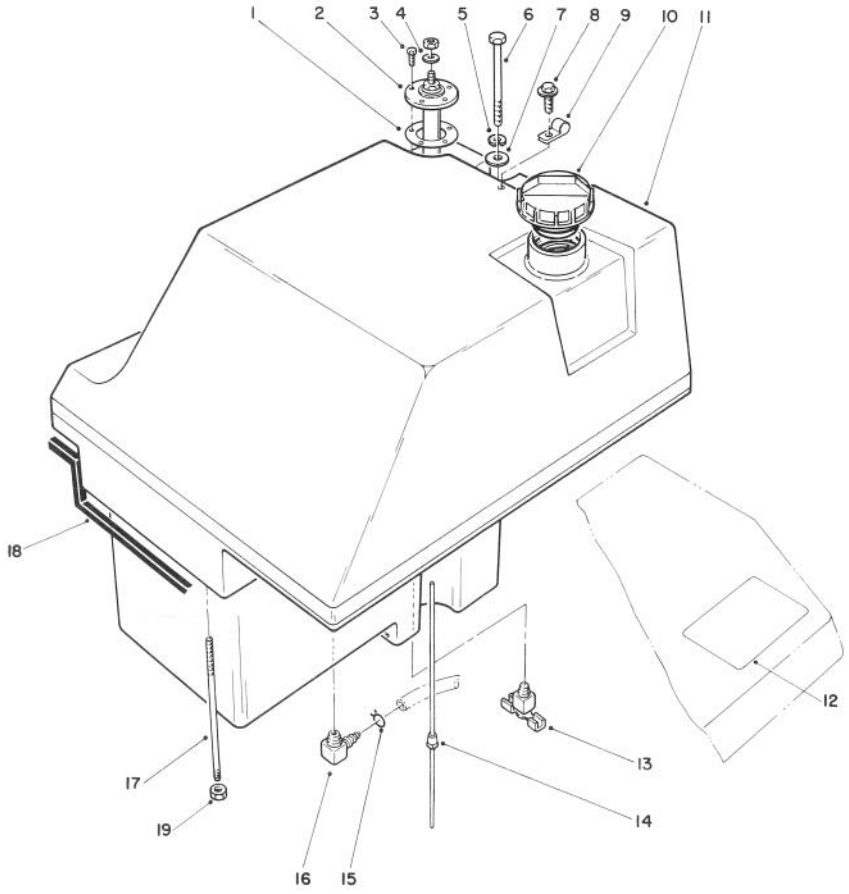


T-0356A-90

COUNTERBALANCE MANIFOLD ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	69-4080	Valve - Hydraulic Cartridge (Incl. Ref. #2)	1
2	69-4230	Kit - Seal	2
3	353-990	Plug - Hose (Incl. Ref. #4)	2
4	237-78	Seal - O-Ring	2
5	69-5890	Tube - Hydraulic	1
6	237-21	Seal - O-Ring	2
7	340-92	Fitting - Hydraulic Straight (Incl. Ref. #6 & 8)	2
8	237-78	Seal - O-Ring	3
9	69-5680	Tube - Hydraulic	1
10	69-4120	Valve - Hydraulic Cartridge (Incl. Ref. #11)	1
11	69-4240	Kit - Seal	1
12	353-991	Plug - Hole (Incl. Ref. #13)	8
13	237-156	Seal - O-Ring	8
14	69-4070	Manifold - Counter Balance	1
15	69-4100	Valve - Hydraulic Cartridge (Incl. Ref. #2)	1
16	353-566	Tee - Hydraulic (Incl. Ref. #8)	1
17	71-3970	Tube - Hydraulic	1
18	69-5850	Tube - Hydraulic	1
19	69-5910	Tube - Hydraulic	1
20	69-5710	Tube - Hydraulic	1
21	237-22	Seal - O-Ring	7
22	237-30	Seal - O-Ring	2
23	340-4	Fitting - Hydraulic Straight (Incl. Ref. #22 & 24)	2
24	237-79	Seal - O-Ring	2
25	69-5660	Hose - Hydraulic Diagnostic	1
26	340-2	Fitting - Hydraulic Straight (Incl. Ref. #21 & 27)	5
27	237-42	Seal - O-Ring	6
28	69-5870	Tube - Hydraulic	1
29	69-4250	Kit - Seal	3
30	69-4110	Valve - Hydraulic Cartridge (Incl. Ref. #29)	2
31	69-5820	Tube - Hydraulic	1
32	69-5830	Tube - Hydraulic	1
33	69-5730	Tube - Hydraulic	1
34	69-5860	Tube - Hydraulic	1
35	340-94	Tee - Hydraulic (Incl. Ref. #21 & 27)	1
36	69-4090	Valve - Hydraulic Cartridge (Incl. Ref. #29)	1
37	69-5920	Tube - Hydraulic	1
*	69-4060	Counterbalance Manifold (Incl. Ref. #1-4, 10-15, 29, 30 & 36)	1
38	69-4140	Plug - Orifice .120	1
39	69-4130	Plug - Orifice .047	2

*Not Illustrated

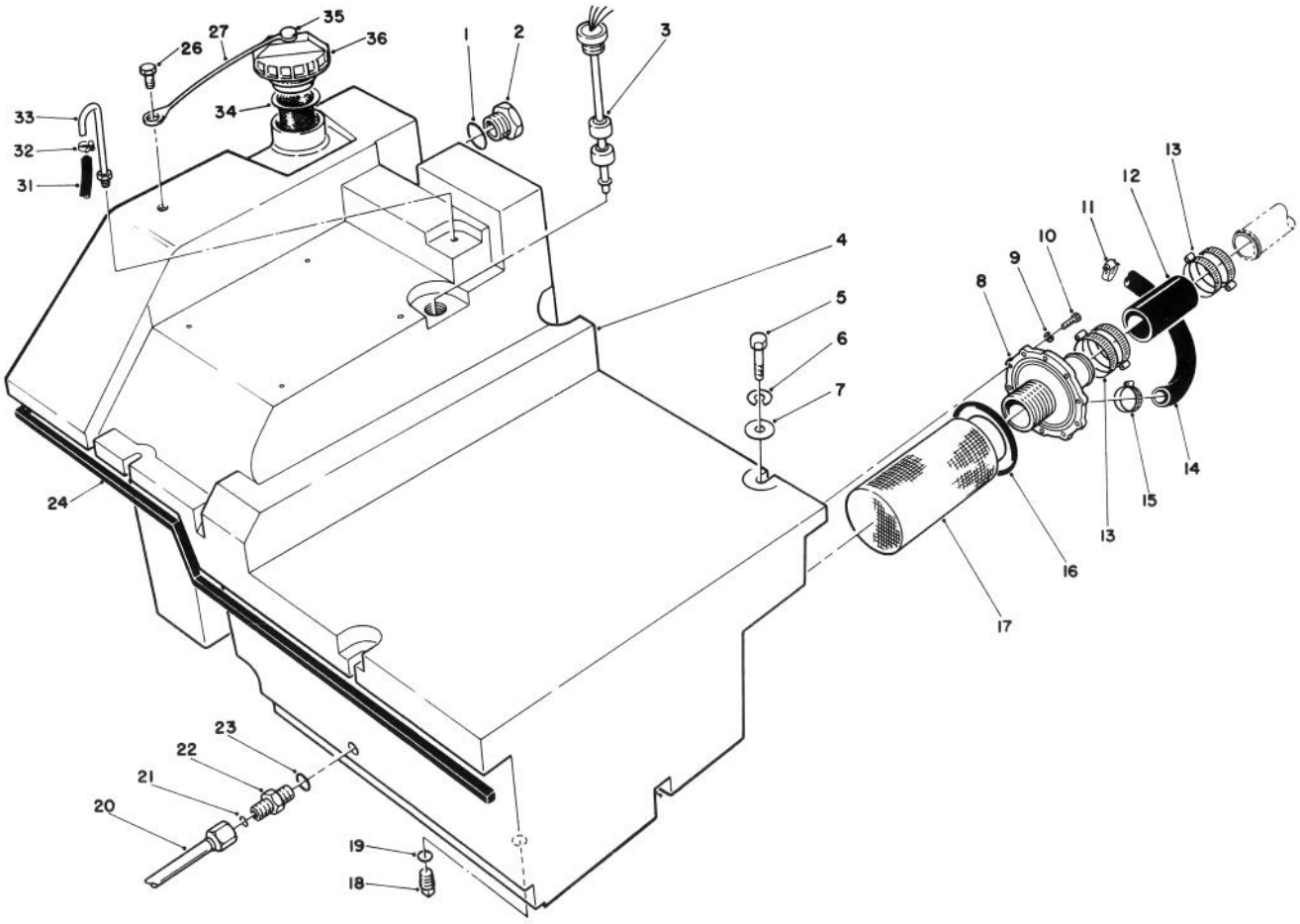


T-0353A-90

FUEL TANK ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	62-7650	Gasket - Level Sensing Unit	1
2	70-6990	Level Sensing Unit Assembly	1
3	32140-40	Screw - Cap Hex. Hd.	5
4	5-3637	Spacer - Terminal	1
5	3253-21	Washer - Lock	2
6	323-23	Screw - Cap Hex. Hd.	1
7	5-3177	Washer - Flat	1
8	3234-13	Screw - Hex. Washer Hd.	1
9	2412-89	Clamp - R	1
10	70-8620	Cap - Fuel	1

Ref. No.	Part No.	Description	No. Used
11	80-0010	Tank - Fuel	1
12	69-0930	Decal - Warning	1
13	304-46	Drain - Fuel Tank	1
14	69-7200	Tube - Vent	1
15	2412-6	Clamp - Hose	1
16	353-781	Fitting - Fuel 90 Elbow	1
17	72-9550	Stud - Fuel Tank	1
18	68-7572	Strip - Sealing	1
19	3217-7	Nut - Hex.	1

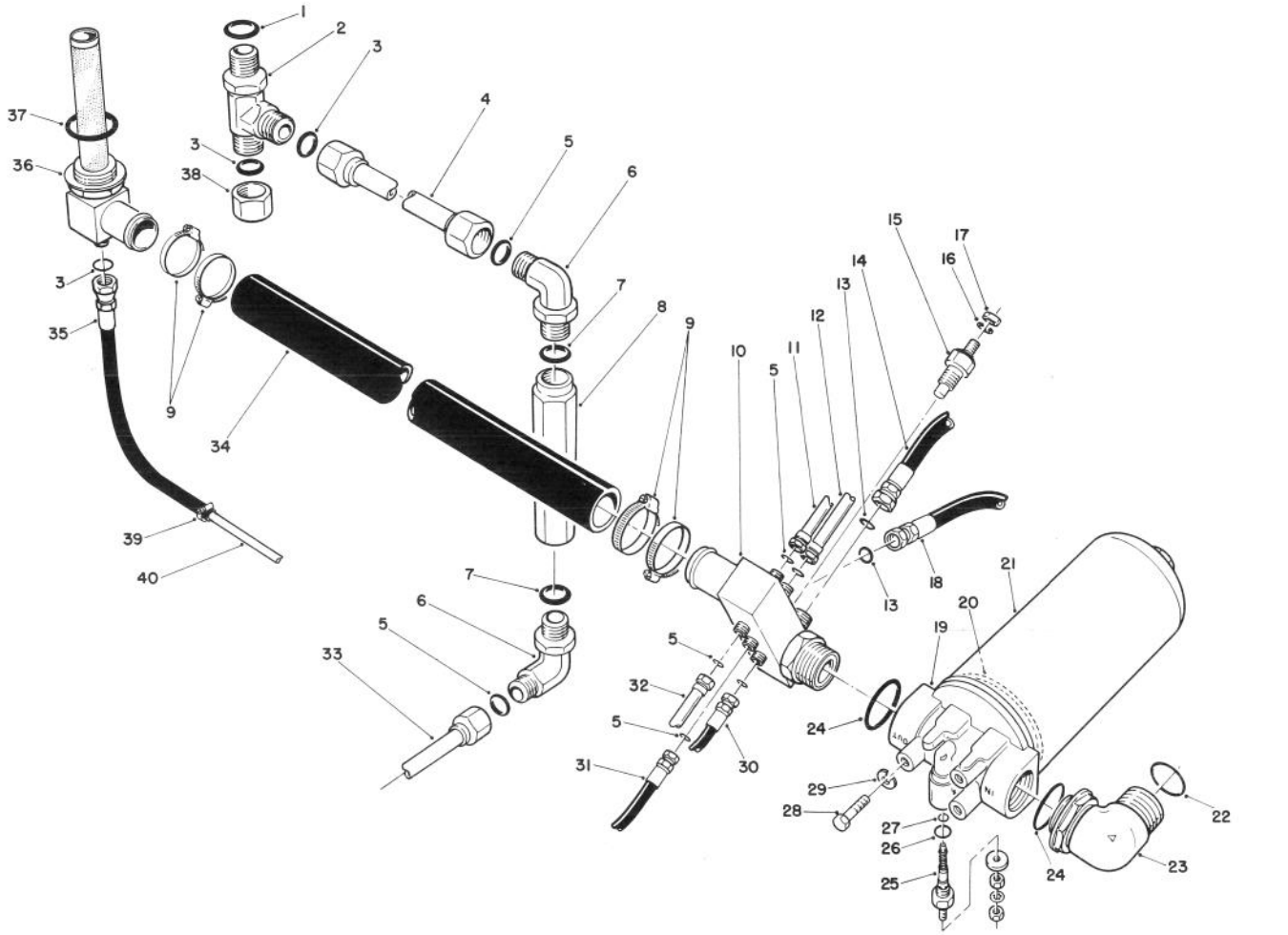


T-0354A-90

HYDRAULIC TANK ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	237-81	Seal - O-Ring	1
2	69-1170	Gauge - Sight (Incl. Ref. #1)	1
3	71-4190	Level Sensing Unit	1
4	77-5390	Tank - Hydraulic	1
5	323-10	Screw - Cap Hex. Hd.	4
6	3253-21	Washer - Lock	4
7	5-3177	Washer - Flat	4
8	69-1610	Adapter - Suction Hose	1
9	3253-3	Washer - Lock	10
10	321-5	Screw - Cap Hex. Hd.	10
11	2412-34	Clamp - Hose	1
12	69-5640	Hose - Suction	1
13	2412-42	Clamp - Hose	4
14	69-5370	Hose - Auxiliary Suction	1
15	2412-3	Clamp - Hose	1
16	237-157	Seal - O-Ring	1
17	69-1650	Screen - Suction	1

Ref. No.	Part No.	Description	No. Used
18	58-9160	Plug - Drain	1
19	237-80	Seal - O-Ring	3
20	69-5800	Tube - Hydraulic	1
21	237-22	Seal - O-Ring	1
22	340-3	Fitting - Hydraulic Straight (Incl. Ref. #21 & 23)	1
23	237-79	Seal - O-Ring	1
24	68-7571	Strip - Sealing	1
26	321-2	Screw - Cap, Hex. Hd.	1
27	75-0540	Tether - Cap, Reservoir	1
31	71-2680	Hose - Vent	1
32	2412-108	Clamp - Hose	2
33	69-4280	Tube - Hydraulic Vent	1
34	61-2790	Filler - Screen	1
35	2410-73	Pin - Tether	1
36	70-8640	Cap - Hydraulic (Incl. Ref. #27 & 35)	1

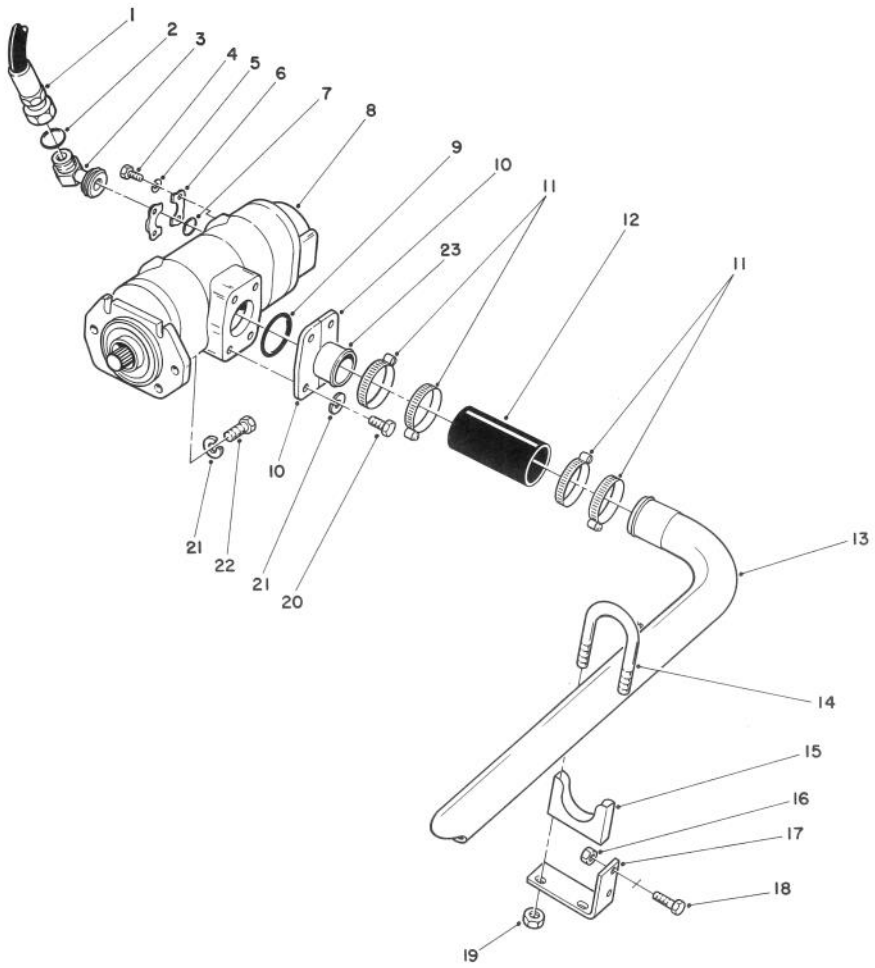


T-0367A-90

HYDRAULIC FILTER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	237-80	Seal - O-Ring	1
2	340-22	Fitting - Hydraulic Tee (Incl. Ref. #1 & 3)	1
3	237-65	Seal - O-Ring	3
4	76-4450	Tube - Hydraulic	1
5	237-22	Seal - O-Ring	5
6	340-18	Fitting - Hydraulic 90° Elbow (Incl. Ref. #5 & 7)	2
7	237-79	Seal - O-Ring	2
8	76-4470	Valve - Check	1
9	2412-92	Clamp - Hose	4
10	69-5410	Manifold - Return (Incl. Ref. #5, 13 & 24)	1
11	69-6000	Tube - Hydraulic (Incl. Ref. #5)	1
12	69-5990	Tube - Hydraulic (Incl. Ref. #5)	1
13	237-30	Seal - O-Ring	2
14	69-5460	Hose - Hydraulic	1
15	39-7592	Temperature Sending Unit	1
16	3253-2	Washer - Lock	1
17	3219-14	Nut - Hex.	1
18	69-5650	Hose - Hydraulic	1
19	69-1700	Hydraulic Filter Assembly (Incl. Ref. #20, 21 & 25-27)	1
20	237-155	Seal - O-Ring	1
21	69-1720	Element - Filter (Incl. Ref. #20)	1
22	340-65	Seal - O-Ring	1
23	340-79	Fitting - Hydraulic 90° Elbow (Incl. Ref. #22 & 24)	1
24	237-101	Seal - O-Ring	2
25	69-1710	Indicator - Filter (Incl. Ref. # 26 & 27)	1
†26		Seal - O-Ring	1
†27		Seal - O-Ring	1
28	323-4	Screw - Cap Hex. Hd.	3
29	3253-21	Washer - Lock	3
30	69-5440	Hose - Hydraulic	1
31	69-8440	Hose - Hydraulic	1
32	69-5950	Tube - Hydraulic	1
33	76-4440	Tube - Hydraulic	1
34	74-2660	Hose - Hydraulic Return	1
35	77-4970	Hose - Hydraulic	1
36	74-2670	Fitting - Tank Return (Incl. Ref. #17 & 35)	1
37	340-136	Seal - O-Ring	1
38	340-150	Cap - Hydraulic	1
39	2412-34	Clamp - Hose	1
40	77-4960	Tube - Hydraulic	1

†Not serviceable separately.



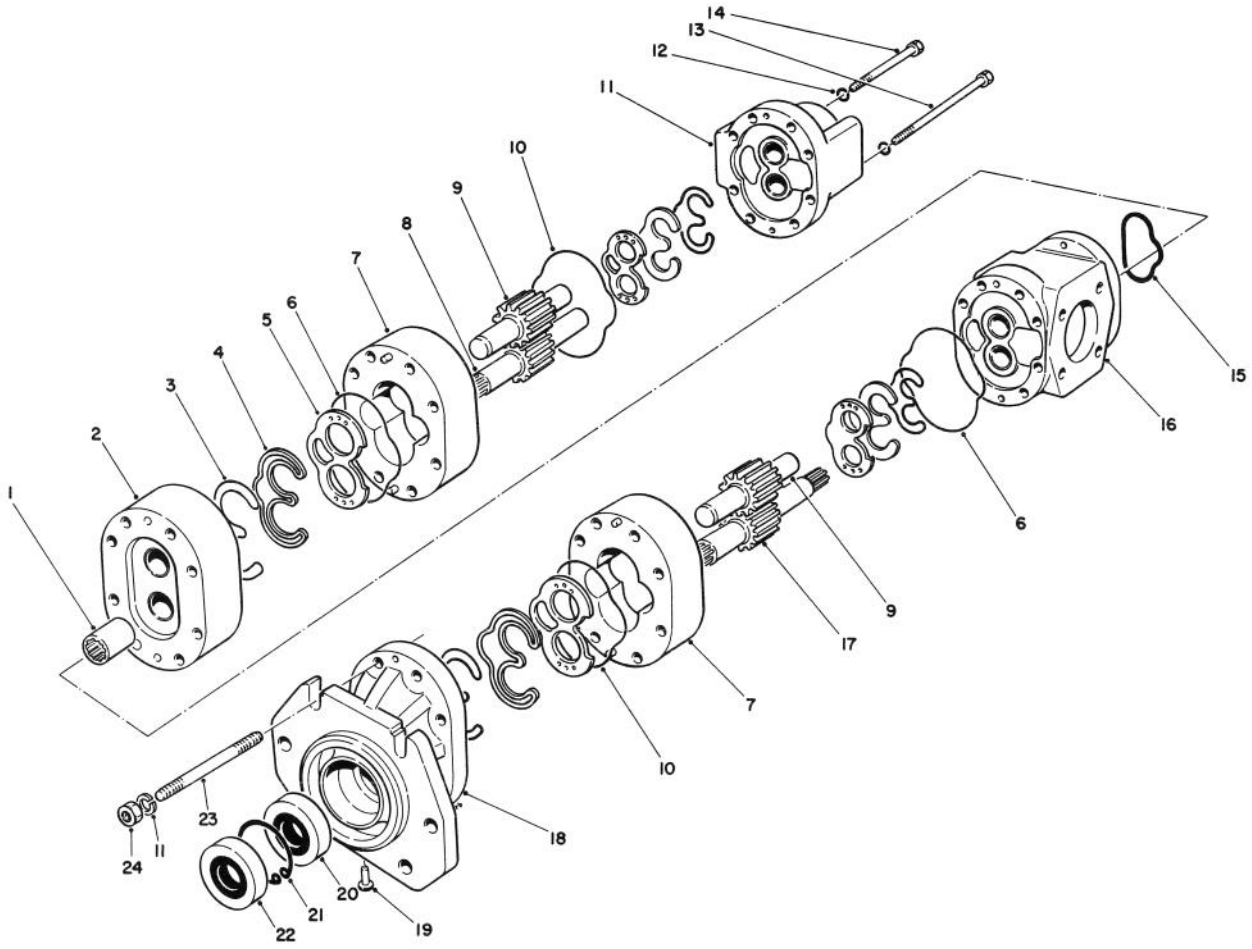
T-0349-90

HYDRAULIC PUMP INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	69-5590	Hydraulic Hose Assembly	2
2	237-58	Seal - O-Ring	2
3	69-6240	Fitting - Hydraulic 90° (Incl. Ref # 2 & 7)	2
4	323-7	Screw - Cap Hex. Hd.	8
5	3253-21	Washer - Lock	8
6	353-992	Flange - Fitting	4
7	340-135	Seal - O-Ring	2
8	69-2050	Hydraulic Pump Assembly	1
9	237-116	Seal - O-Ring	1
10	354-42	Flange - Half	2
11	2412-42	Clamp - Hose	4
12	69-5640	Hose - Hydraulic	1

Ref. No.	Part No.	Description	No. Used
13	69-6110	Hydraulic Tube Assembly	1
†14		Bolt - U	2
15	20-4840	Clamp - Tube (Incl. Ref. #14 & 19)	2
16	32152-2	Nut - Lock	4
17	69-9220	Support - Tube Clamp	2
18	323-6	Screw - Cap Hex. Hd.	4
19	3217-6	Nut - Lock	4
20	325-6	Screw - Cap Hex. Hd.	4
21	3253-7	Washer - Lock	8
22	3213-2	Screw - Cap Hex. Hd.	4
23	74-2270	Fitting - Suction	1

†Not serviceable separately.

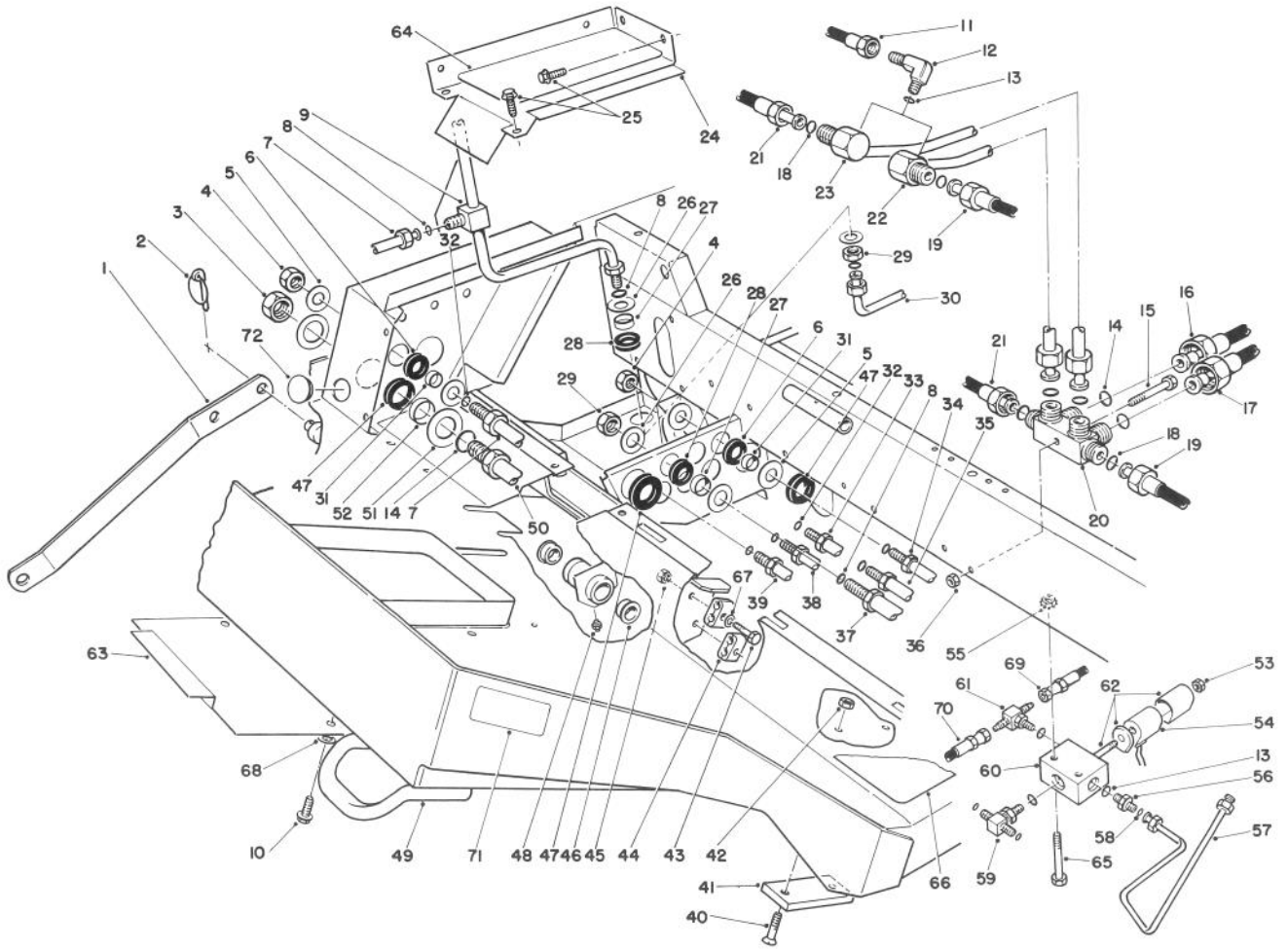


T-0382-90

DOUBLE GEAR PUMP NO. 69-2050

Ref. No.	Part No.	Description	No. Used
1	69-2110	Coupling	1
2	69-2170	Adapter Section Assembly	1
3	59-7990	Seal - Gland	4
4	59-8470	Retainer - Seal	4
5	69-2070	Plate - Flex	4
6	69-2200	Seal - O-Ring	2
7	69-2080	Center Section Assembly	2
8	69-2090	Gear/Shaft - Rear Drive	1
9	59-8600	Gear - Driven	2
10	69-2120	Seal - O-Ring	2
11	69-2100	Rear Cover Assembly	1
12	59-7590	Washer - Lock	16
13	69-2150	Screw - Cap Hex. Hd.	4

Ref. No.	Part No.	Description	No. Used
14	69-2140	Screw - Cap Hex. Hd.	4
15	69-2210	Seal - O-Ring	1
16	69-2160	Port Section Assembly	1
17	59-8500	Gear/Shaft - Front Drive	1
18	69-2060	Shaft End Cover Assembly	1
19	69-2130	Plug	1
20	59-8590	Seal - Shaft	1
21	59-8580	Ring - Retaining	1
22	59-8570	Seal - Shaft	1
23	59-7970	Stud - Threaded	8
24	59-7580	Nut - Hex.	8
*	59-8610	Repair Kit (Incl. Ref. #3, 4, 20 & 22)	1



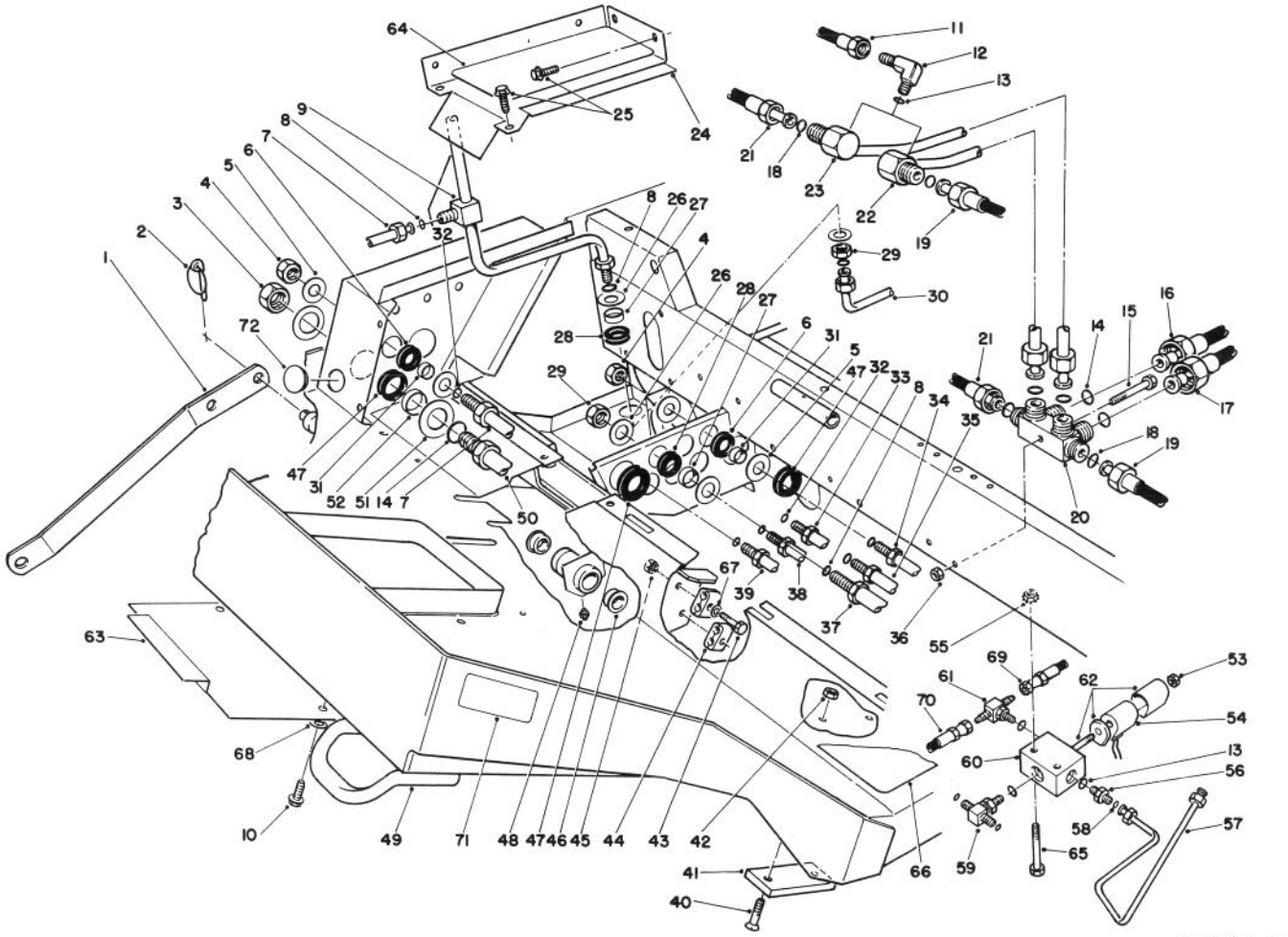
T-0357A-90

FRAME ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	77-4870	Link - Deck Tilt	1
2	32-0140	Pin - Lynch	2
3	340-126	Nut - Bulkhead	2
4	340-70	Nut - Bulkhead	6
5	69-8940	Washer	12
6	240-4	Grommet	6
7	69-5690	Tube - Hydraulic (Incl. Ref. #32)	1
8	237-30	Seal - O-Ring	3
9	71-3970	Tube - Hydraulic (Incl. Ref. #8)	1
10	3234-28	Screw - Hex. Flange Hd.	2
11	69-5660	Hose - Hydraulic	2
12	353-375	Fitting - Hydraulic 90° Elbow (Incl. Ref. #13)	2
13	237-78	Seal - O- Ring	5
14	237-58	Seal - O- Ring	4
15	322-10	Screw - Cap Hex. Hd.	1
16	69-5470	Hose - Hydraulic	1
17	69-5480	Hose - Hydraulic	1
18	237-65	Seal - O-Ring	6
19	69-5760	Hose - Hydraulic	2
20	69-5400	Fitting - Traction (Incl. Ref. #14 & 18)	1
21	69-5770	Hose - Hydraulic	2
22	69-6200	Tube - Hydraulic (Incl. Ref. #18)	1

Ref. No.	Part No.	Description	No. Used
23	69-6190	Tube - Hydraulic (Incl. Ref. #18	1
24	71-2450	Cover - Access	1
25	3234-14	Screw - Hex. Flange Hd.	4
26	69-8930	Washer	4
27	69-8960	Spacer	2
28	240-5	Grommet	2
29	340-127	Nut - Bulkhead	2
30	76-4460	Tube - Hydraulic	1
31	69-8970	Spacer	6
32	237-22	Seal - O-Ring	6
33	69-6050	Tube - Hydraulic (Incl. Ref. #32)	1
34	69-6040	Tube - Hydraulic (Incl. Ref. #32)	1
35	69-6030	Tube - Hydraulic (Incl. Ref. #32)	1
36	32152-1	Nut - Lock	1
37	69-5790	Tube - Hydraulic (Incl. Ref. #8)	1
38	69-6060	Tube - Hydraulic (Incl. Ref. #32)	1
39	69-5880	Tube - Hydraulic (Incl. Ref. #32)	1
40	32108-103	Screw - Machine Flat Hd.	4
41	69-9300	Cushion - Rubber	2
42	32152-1	Nut - Lock	4

*Not Illustrated



T-0357A-90

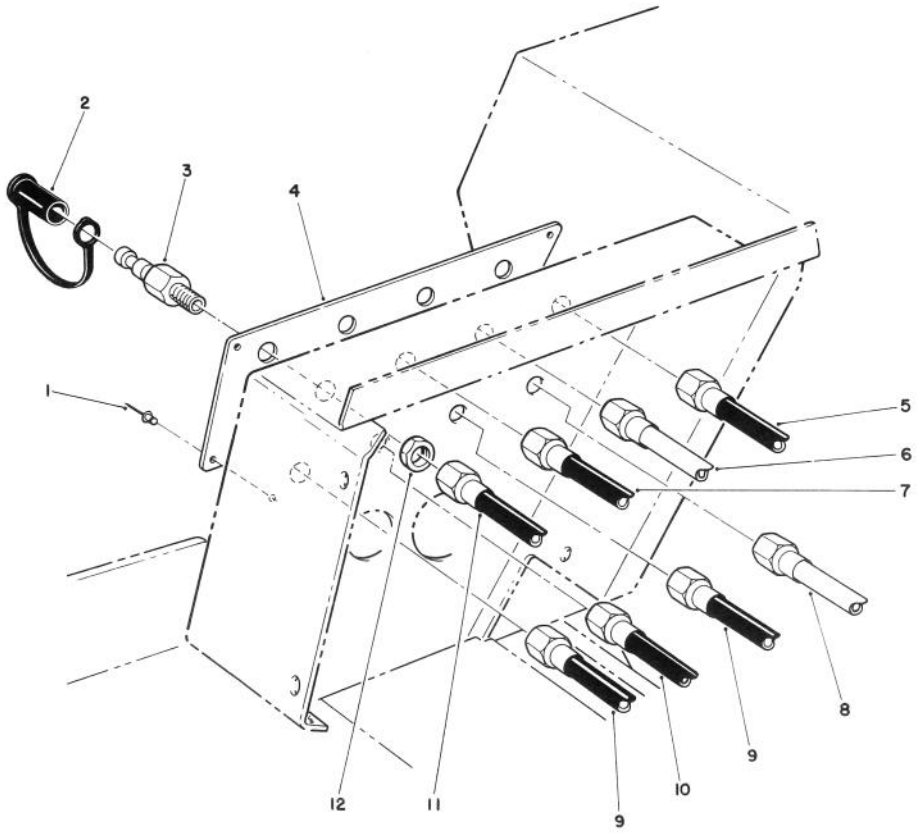
FRAME ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
43	321-9	Screw - Cap Hex. Hd.	2
44	56-7973	Clamp Half - Hydraulic Line	4
45	32152-4	Nut - Lock	2
46	256-247	Bushing - Flange	2
47	240-7	Grommet	4
48	302-5	Fitting - Grease	1
49	69-0100	Frame - Assembly (Incl. Ref. #46 & 48)	1
50	69-6100	Tube - Hydraulic Pressure (Incl. Ref. #14)	1
*	69-5810	Tube - Hydraulic Return (Incl. Ref. #14)	1
51	69-8910	Washer	4
52	69-8900	Spacer	2
53	3220-3	Nut	1
54	71-2660	Solenoid Coil Kit (Incl. Ref. #53)	3
55	32149-2	Nut - Keps	2
56	340-92	Fitting - Hydraulic (Incl. Ref. #13 & 58)	1
57	69-5950	Tube - Hydraulic	1
58	237-21	Seal - O-Ring	3

Ref. No.	Part No.	Description	No. Used
59	340-125	Fitting - Hydraulic (Incl. Ref. #13 & 58)	1
†60		Body - Valve	1
61	340-123	Fitting - Hydraulic (Incl. Ref. #13)	1
62	71-2640	Valve - Solenoid (Incl. Ref. #53-54)	1
63	69-9470	Cover - Access	1
64	71-0430	Cover - Abrasive	1
65	321-11	Screw - Cap Hex. Hd.	2
66	71-0420	Floor - Abrasive	1
67	3256-56	Washer - Flat	2
68	3256-23	Washer - Flat	2
69	69-5663	Hose - Diagnostic	1
70	69-5664	Hose - Diagnostic	1
71	72-4080	Decal - Danger	2
72	2410-10	Plug - Button	1
*	71-2650	Valve Seal Kit	1
*	71-2630	Solenoid Valve Assembly (Incl. Ref. #53, 54, 60 & 62)	1

*Not Illustrated

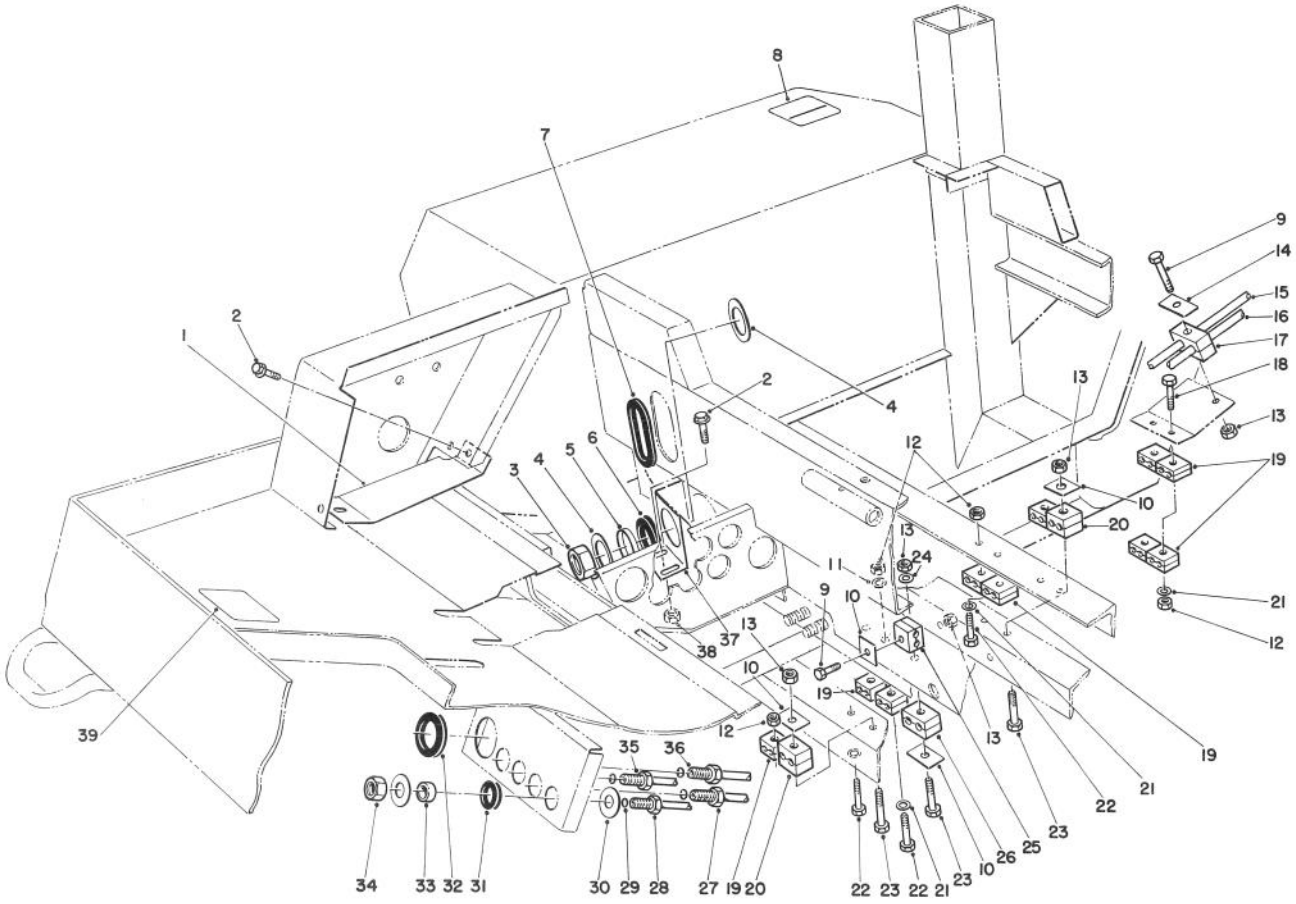
†Not serviceable separately.



T-0363A-90

HYDRAULIC SYSTEM DIAGNOSTIC PANEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3269-25	Rivet - Pop	4
2	353-947	Cap - Fitting	8
3	353-997	Fitting - Hydraulic Bulkhead (Incl. Ref. #12)	8
4	69-0960	Panel - Diagnostic	1
5	69-5660	Hose - Hydraulic Diagnostic	1
6	69-5910	Tube - Hydraulic Diagnostic	1
7	69-5664	Hose - Hydraulic Diagnostic	1
8	69-5920	Tube - Diagnostic	1
9	69-5662	Hose - Hydraulic Diagnostic	2
10	69-5665	Hose - Hydraulic Diagnostic	1
11	69-5661	Hose - Hydraulic Diagnostic	1
12	3220-4	Nut - Bulkhead	8

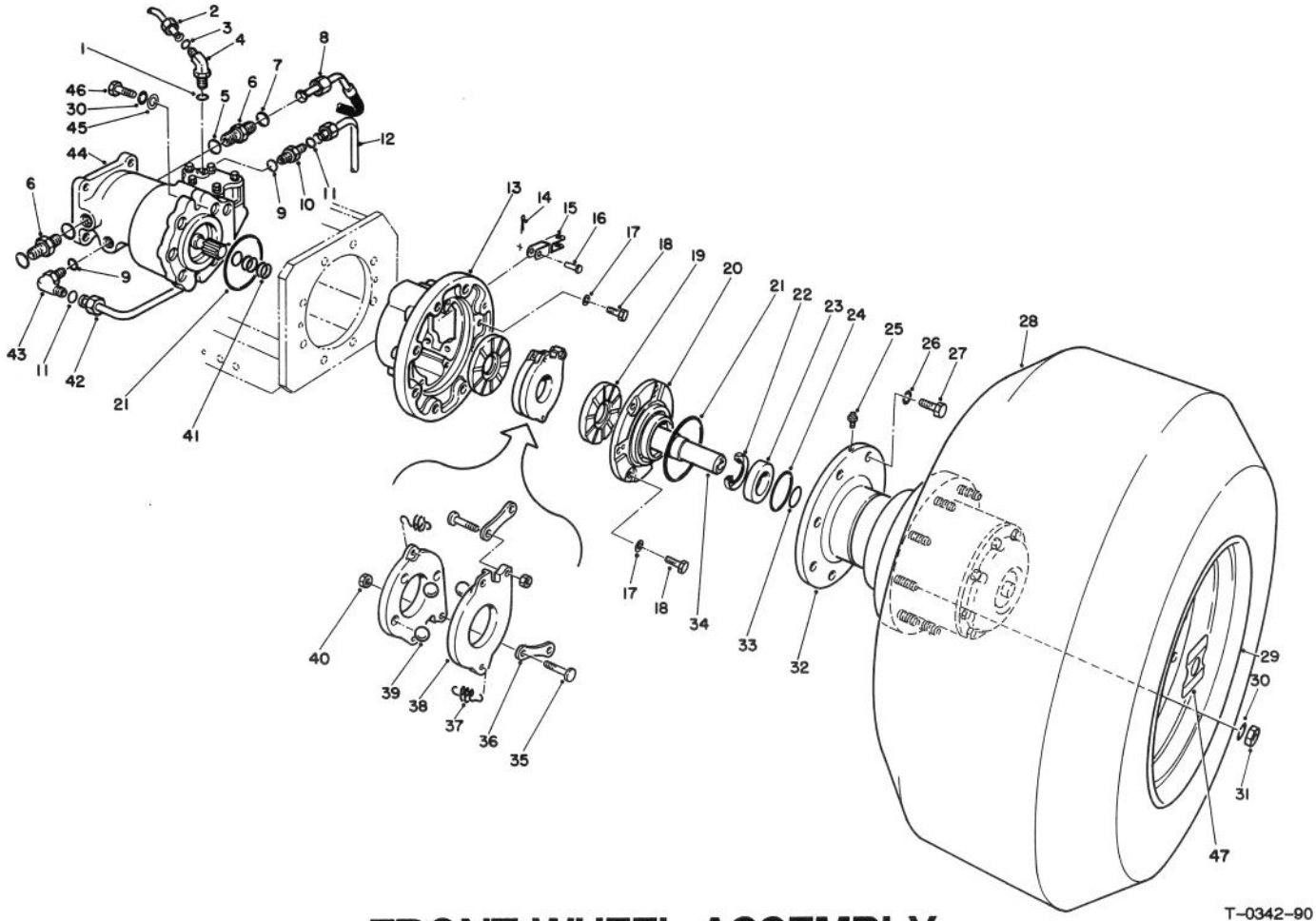


T-0358-90

HYDRAULIC LINE CLAMPS ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	69-9330	Cover	1
2	3234-14	Screw - Hex. Flange Hd.	6
3	340-128	Nut - Bulkhead	2
4	69-8920	Washer	4
5	69-8950	Spacer	2
6	240-2	Grommet	2
7	237-164	Grommet	1
8	69-0920	Decal - Hydraulic Oil	1
9	322-11	Screw - Cap Hex. Hd.	8
10	69-9760	Plate - Cover	10
11	3256-22	Washer - Flat	2
12	32152-4	Nut - Lock	6
13	32152-1	Nut - Lock	11
14	69-9761	Plate - Cover	1
15	69-6130	Tube - Hydraulic	1
16	69-6120	Tube - Hydraulic	1
17	56-7974	Clamp Half - Hydraulic Line	2
18	321-15	Screw - Cap Hex. Hd.	2
19	56-7973	Clamp Half - Hydraulic Line	20
20	56-7972	Clamp Half - Hydraulic Line	4
21	3256-56	Washer - Flat	8
22	321-9	Screw - Cap Hex. Hd.	6

Ref. No.	Part No.	Description	No. Used
23	322-10	Screw - Cap Hex. Hd.	3
24	3256-23	Washer - Flat	1
25	56-7975	Clamp Half - Hydraulic Line	14
26	56-7971	Clamp Half - Hydraulic Line	2
27	69-6090	Tube - Hydraulic (Incl. Ref. #29)	1
28	69-5800	Tube - Hydraulic (Incl. Ref. #29)	1
29	237-21	Seal - O-Ring	4
30	69-8980	Washer	8
31	240-6	Grommet	4
32	240-7	Grommet	1
33	69-8990	Spacer	4
34	340-78	Nut - Bulkhead	4
35	69-6080	Tube - Hydraulic (Incl. Ref. #29)	1
36	69-6070	Tube - Hydraulic (Incl. Ref. #29)	1
37	71-2560	Support - Bulkhead	2
38	32128-20	Nut - Lock	4
39	69-0940	Decal - Caution	1

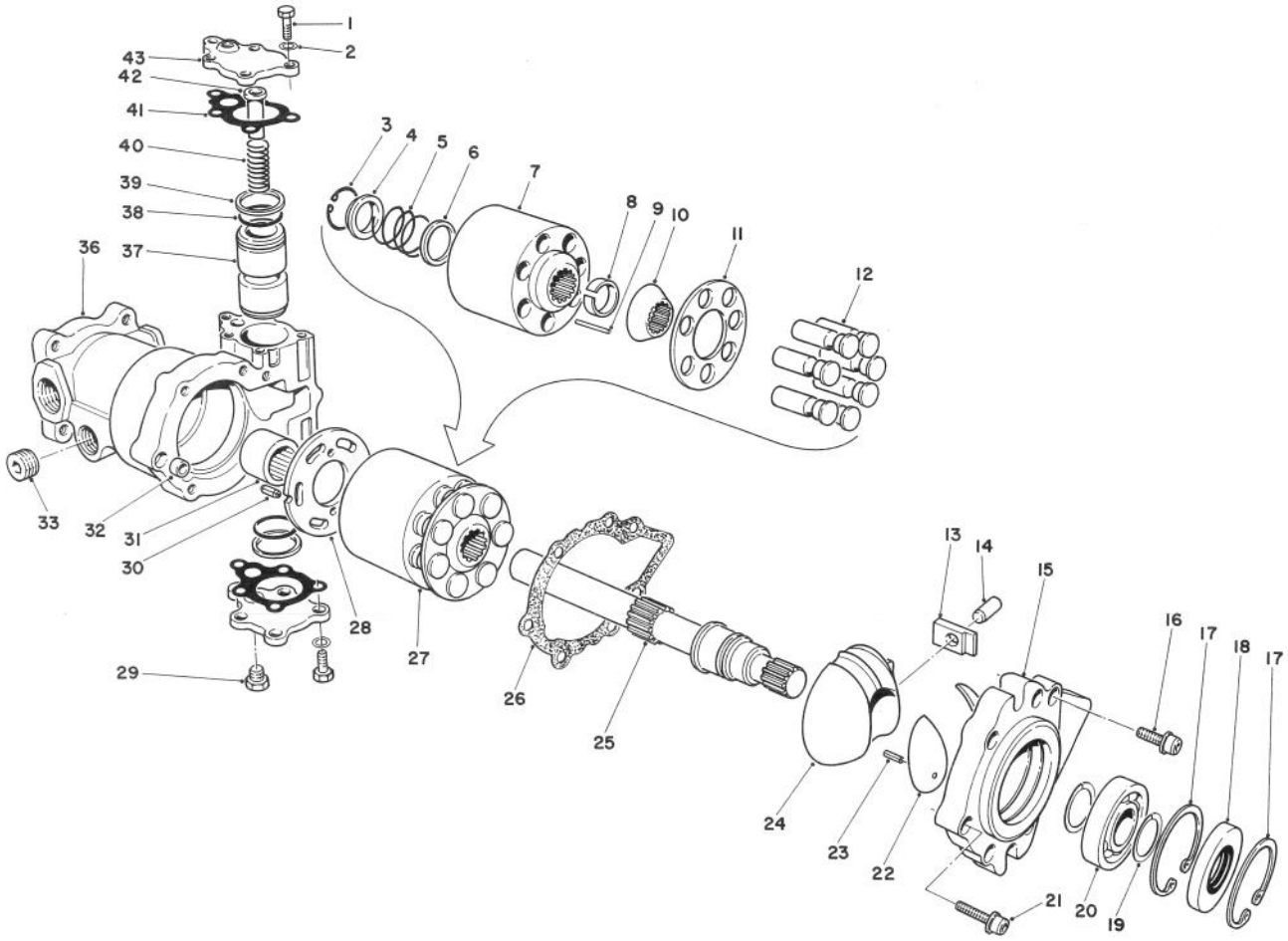


FRONT WHEEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	237-42	Seal - O-Ring	2
2	69-5940	Tube - Hydraulic L.H.	1
*	69-5930	Tube - Hydraulic R.H.	1
3	237-21	Seal - O-Ring	2
4	340-82	Fitting - Hydraulic Elbow (Incl. Ref. #1 & 3)	2
5	237-146	Seal - O-Ring	4
6	340-91	Fitting - Hydraulic Straight (Incl. Ref. #5 & 7)	4
7	237-58	Seal - O-Ring	6
8	69-5760	Hose - Hydraulic L.H.	2
*	69-5770	Hose - Hydraulic R.H.	2
9	237-81	Seal - O-Ring	4
10	340-8	Fitting - Hydraulic St. L.H. (Incl. Ref. #9 & 11)	1
*	340-148	Fitting - Hydraulic Tee R.H. (Incl. Ref. #7 & 9)	1
11	237-65	Seal - O-Ring	3
12	77-4960	Tube - Hydraulic L.H.	1
*	76-4440	Tube - Hyd. R.H. Run	1
*	76-4460	Tube - Hyd. R.H. Branch	1
13	71-4010	Housing - Brake	2
14	3272-6	Pin - Cotter	2
15	71-3880	Clevis - Brake Cable	2
16	283-2	Pin - Clevis	2
17	3253-21	Washer - Lock	14
18	323-6	Screw - Cap Hex. Hd.	14
19	71-0470	Disc - Middle	4
20	71-3990	Cap - Brake Housing	2
21	237-158	Seal - O-Ring	4

Ref. No.	Part No.	Description	No. Used
22	253-156	Seal - Oil	2
23	251-340	Bearing - Ball	2
24	32120-22	Ring - Retaining Internal	2
25	302-39	Vent	2
26	3253-8	Washer - Lock	16
27	327-22	Screw - Cap Hex. Hd.	16
28	69-9800	Tire	2
*	58-5620	Tube - Inner	1
*	231-133	Tire (Optional)	2
29	71-2470	Rim	2
30	3253-7	Washer - Lock	22
31	3219-5	Nut - Hex.	18
32	69-1730	Planetary Gear Drive Assy.	2
33	32120-84	Ring - Retaining External	2
34	71-3810	Coupling - Hydraulic Motor	2
35	69-9970	Stud	4
36	69-9960	Link	4
37	69-9950	Spring - Extension	4
38	69-9990	Disc - Actuating	4
39	69-9980	Ball	6
40	69-9940	Nut - Jam	4
41	253-157	Ring - Cup	8
42	71-3950	Tube - Hydraulic	1
43	340-139	Fitting - Hydraulic Elbow (Incl. Ref. #9 & 11)	2
44	69-3050	Motor - Hydraulic Wheel	2
45	3256-26	Washer - Flat	4
46	325-7	Screw - Cap Hex. Hd.	4
47	72-4070	Decal - Danger	2

*Not Illustrated

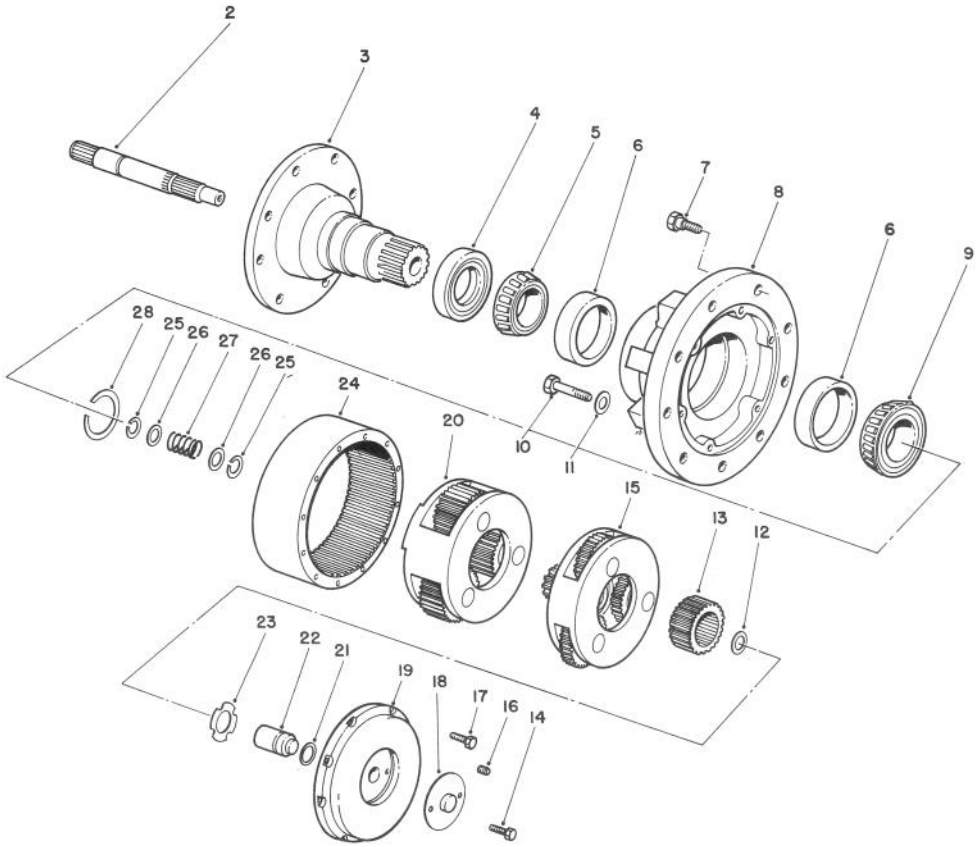


WHEEL MOTOR NO. 69–3050

Ref. No.	Part No.	Description	No. Used
1	69–3150	Screw Hex. Hd.	10
2	69–3070	Washer – Plain	10
†3		Ring – Retaining	1
†4		Washer	1
†5		Spring – Compression	1
†6		Washer	1
†7		Block – Cylinder	1
†8		Retainer	1
†9		Pin – Slipper Hold Down	3
†10		Guide – Retainer	1
†11		Guide – Slipper	1
†12		Piston Assembly	7
13	69–3500	Bearing – Sleeve	1
14	69–3510	Pin	1
15	76–4610	Cover – Front	1
16	76–4590	Screw	6
17	69–3200	Ring – Retaining	2
18	69–3190	Seal – Lip	1
19	69–3170	Ring – Retaining	2
20	69–3210	Bearing – Ball	1
21	69–3960	Screw	1
22	69–3970	Bearing – Journal	2

Ref. No.	Part No.	Description	No. Used
23	69–3520	Pin – Spring	2
24	69–3980	Swashplate – Variable	1
25	69–3950	Shaft – Motor	1
26	76–4600	Gasket – Front Cover	1
27	69–3910	Cylinder Block Kit (Incl. Ref. #3–12	1
28	69–3990	Plate – Motor Valve	1
29	69–3940	Plug	1
30	69–3450	Pin	1
31	69–3370	Bearing – Needle	1
32	69–3230	Pin – Spring	1
33	69–3130	Plug – Hole	1
†36		Housing	1
37	69–4020	Piston – Servo	1
38	69–3560	Seal – O-Ring	2
39	69–3570	Ring – Piston	2
40	69–4030	Spring – Servo	1
41	69–3710	Gasket – Servo Cover	2
42	69–4040	Stop – Servo Piston	1
43	69–3720	Cover – Servo	2
*	69–3920	Piston Ring & O-Ring Kit (Incl. Ref. #38 & 39)	1

*Not Illustrated
†Not serviceable separately.



T-0140-90

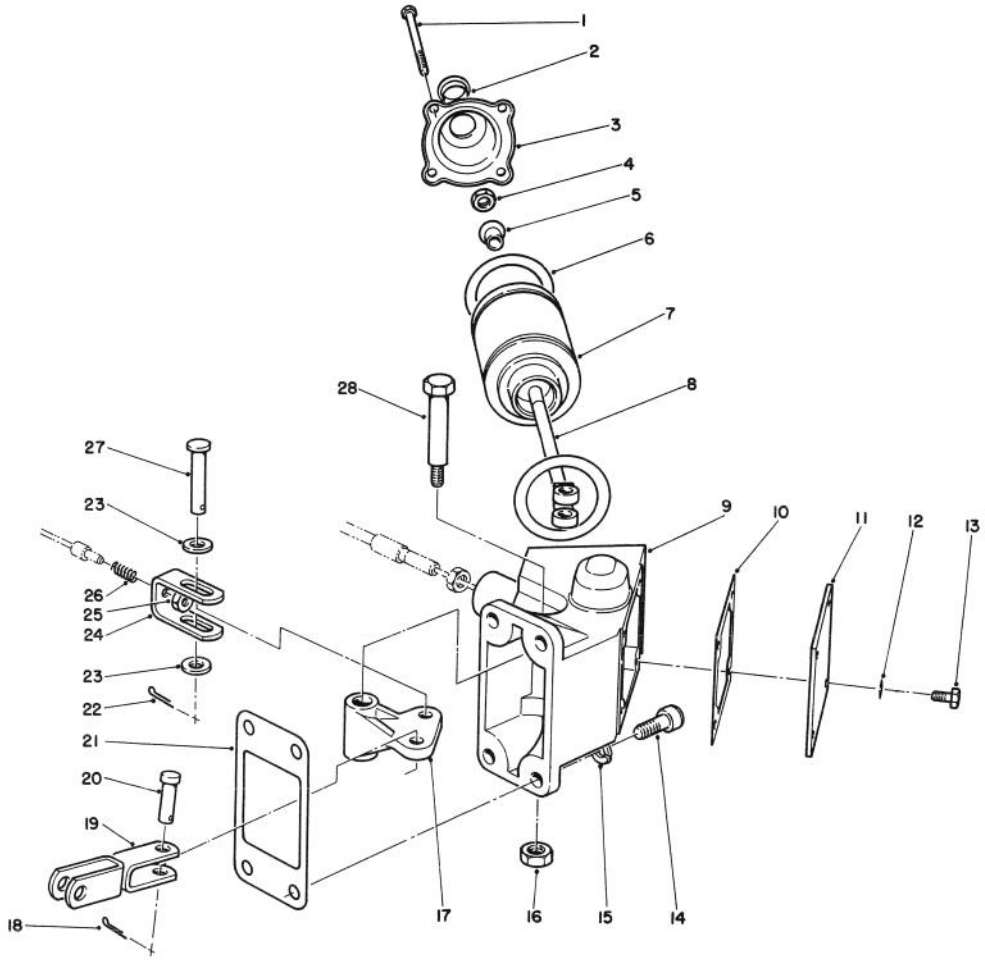
PLANETARY GEAR ASSEMBLY NO. 69–1730

Ref. No.	Part No.	Description	No. Used
2	60–3810	Shaft – Input	1
3	69–1740	Spindle	1
4	60–3830	Seal – Oil	1
5	60–3840	Cone – Bearing	1
6	60–3850	Cup – Bearing	2
7	60–3860	Bolt – Wheel	9
8	60–3870	Hub	1
9	60–3880	Cone – Bearing	1
10	60–3890	Bolt – Hex. Hd.	6
11	60–3910	Washer – Flat	6
12	60–3980	Washer – Thrust	1
13	60–3970	Gear – Primary Sun	1
14	60–4070	Bolt – Hex. Hd.	2
15	60–3960	Primary Carrier Assembly	1

Ref. No.	Part No.	Description	No. Used
16	60–4040	Plug – Pipe	1
17	60–4030	Bolt – Hex. Hd.	8
18	60–4060	Cover – Disengage	1
19	60–4050	Cover – Large	1
20	60–4000	Secondary Carrier Assy.	1
21	60–4020	Seal – O–Ring	1
22	60–4010	Plunger – Disengage	1
23	60–3990	Washer – Thrust	1
24	60–3900	Gear – Ring	1
25	60–3930	Ring – Retaining	2
26	60–3940	Washer	2
27	60–3950	Spring – Disengage	1
†28	62–6450	Kit – Retaining Ring	1
*	62–6460	Sealant – RTV (Tube)	1

*Not Illustrated

†Includes 7 different thickness retaining rings for service adjustment of bearings.

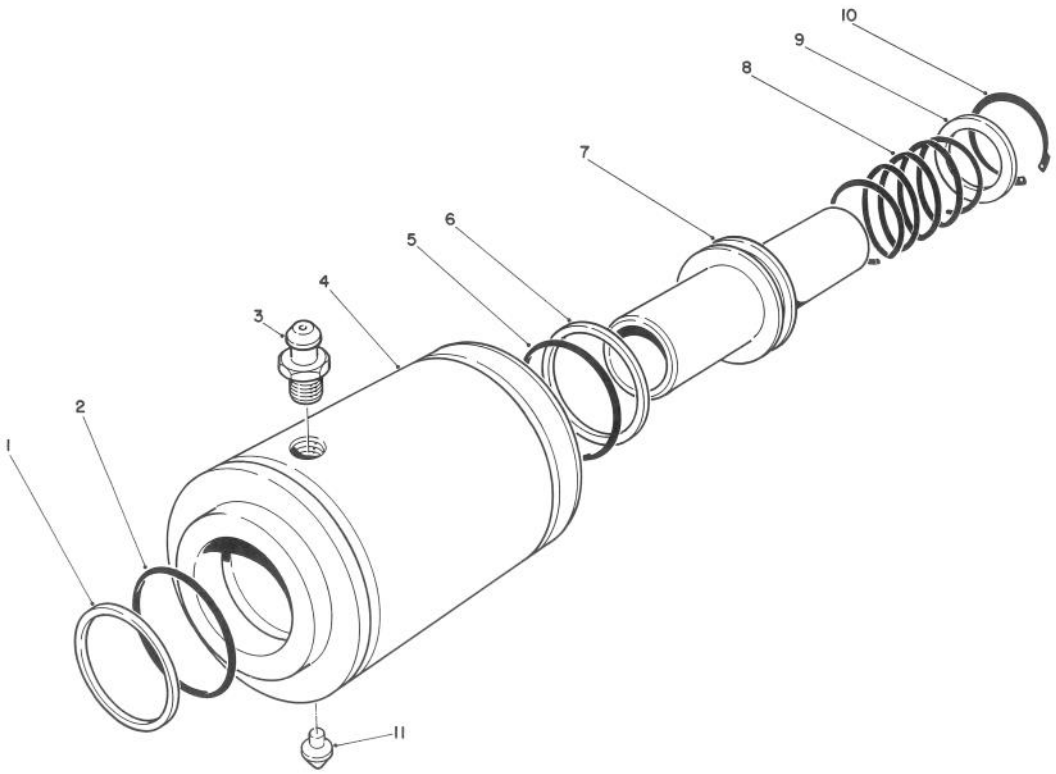


T-0878-90

WHEEL BRAKE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	321-38	Screw - Cap Hex. Hd.	8
2	2410-71	Plug	2
3	71-4110	Cap - Actuator	2
4	3296-59	Nut - Lock	2
5	71-3910	Collar	2
6	71-3920	Gasket	4
7	69-9820	Actuator - Brake	2
8	21-2070	Yoke - End	2
9	71-3800	Housing - Brake Actuator	2
10	71-3870	Gasket	2
11	71-3850	Cover - Housing	2
12	3253-3	Washer - Lock	8
13	321-2	Screw - Cap Hex. Hd.	8
14	3274-7	Screw - Cap Socket Hd.	8

Ref. No.	Part No.	Description	No. Used
15	3253-21	Washer - Lock	8
16	32128-25	Nut - Lock	2
17	71-3830	Bellcrank - Brake	2
18	3272-6	Pin - Cotter	2
19	71-3880	Clevis - Brake Cable	2
20	283-2	Pin - Clevis	2
21	71-3900	Gasket	2
22	3272-10	Pin - Cotter	2
23	3256-24	Washer - Flat	4
24	71-3860	Clevis	2
25	3296-3	Nut - Lock	2
26	69-0030	Spring - Compression	2
27	283-15	Pin - Clevis	2
28	12-8900	Bolt - Shoulder	2



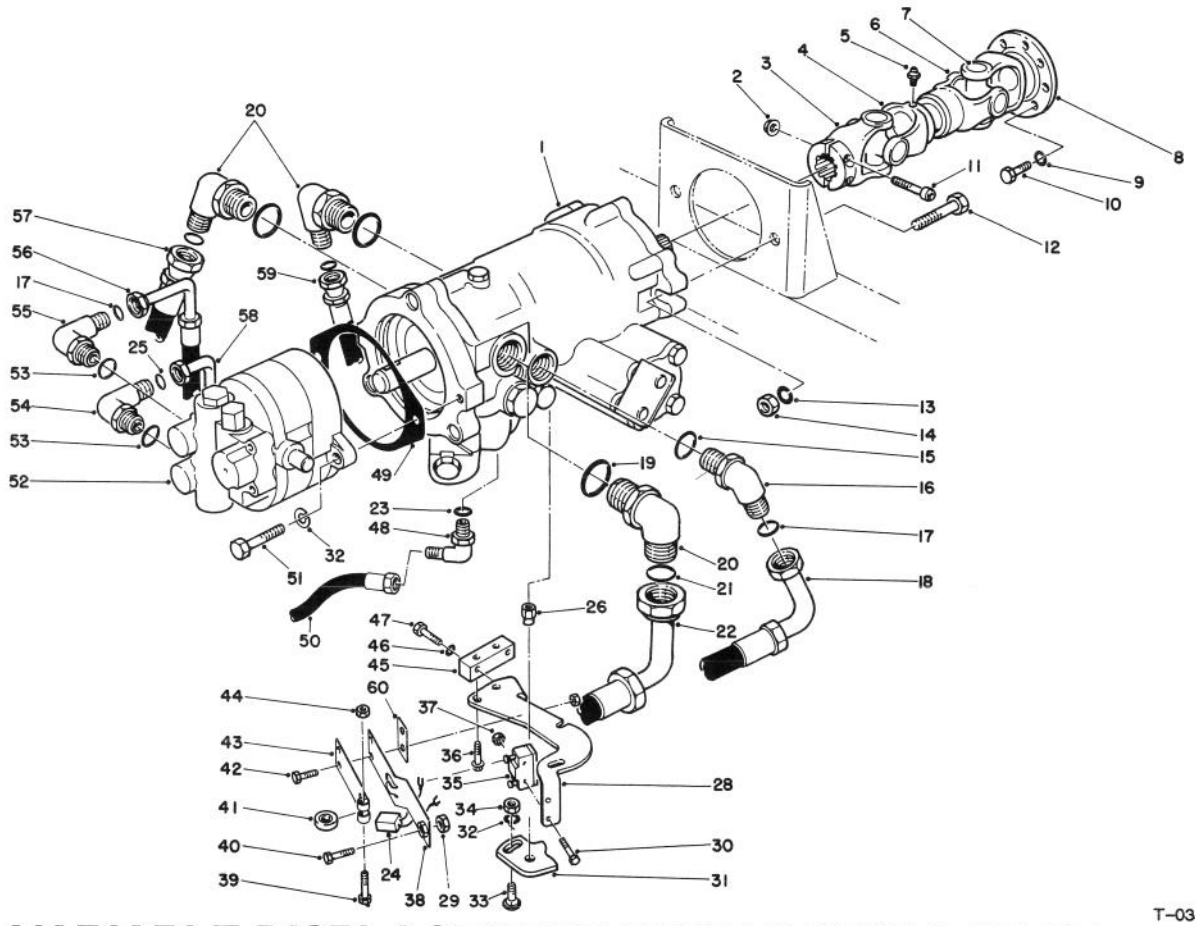
T-0879-90

BRAKE ACTUATOR ASSEMBLY NO. 69-9820

Ref. No.	Part No.	Description	No. Used
1		Ring - Backup	1
2		Packing - Pre-formed	1
3	69-9780	Screw - Bleeder	1
4		Housing	1
5		Packing - Pre-formed	1
6		Ring - Backup	1
7	69-9850	Piston - Actuator	1

Ref. No.	Part No.	Description	No. Used
8	69-9910	Spring - Compression	1
9	69-9920	Washer - Flat	1
10	69-9930	Ring - Retaining	1
11	69-9830	Insert - Seat	1
*	72-4690	Kit - Seal (Incl. Ref. #1, 2, 5 & 6)	1

*Not Illustrated

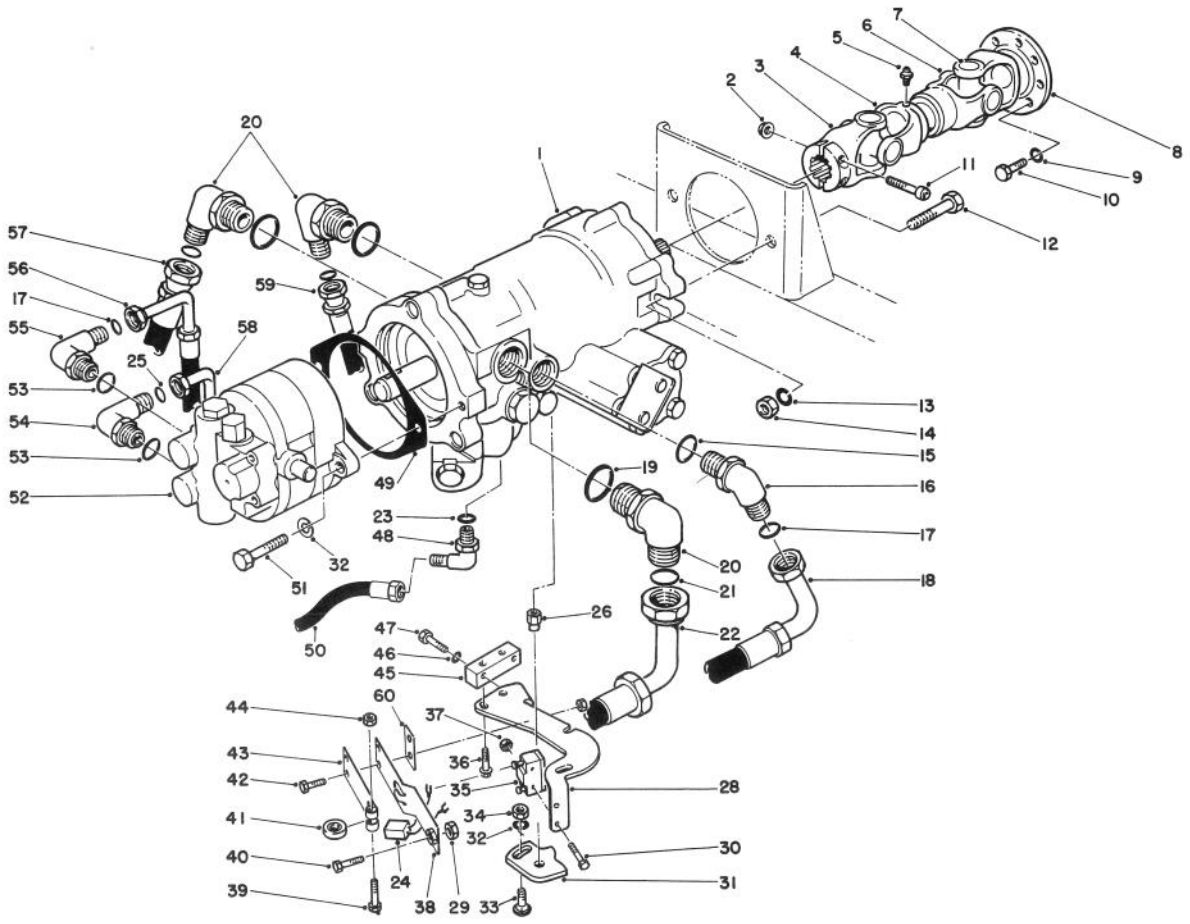


T-0350-90

VARIABLE DISPLACEMENT PUMP INSTALLATION

Ref. No.	Part No.	Description	No. Used
1	69-3040	Variable Displacement Pump	1
2	32128-21	Nut - Flange Lock	2
3	71-0520	Yoke - Pump End	1
4	71-0530	Tube - Slip Yoke	1
5	302-2	Fitting - Grease	1
6	71-0510	Shaft - Slip Yoke	1
7	2115-88	Kit - Universal Joint	2
8	71-0500	Yoke - Engine End	1
9	48-9570	Washer - Lock	8
10	48-7710	Screw - Cap Hex. Hd.	8
11	3274-50	Screw - Hex. Socket Hd.	2
12	325-7	Screw - Cap Hex. Hd.	2
13	3253-7	Washer - Lock	2
14	3217-9	Nut - Hex.	2
15	237-81	Seal - O-Ring	1
16	340-131	Fitting - Hydraulic Elbow (Incl. Ref. #15 & 17)	1
17	237-30	Seal - O-Ring	2
18	69-5460	Hose - Hydraulic	1
19	237-146	Seal - O-Ring	3
20	340-15	Fitting - Hydraulic Elbow (Incl. Ref. #19 & 21)	3
21	237-58	Seal - O-Ring	3
22	69-5650	Hose - Hydraulic	1
23	237-42	Seal - O-Ring	1
24	72-3790	Wire - Neutral Switch	1
26	69-9020	Nut - Special	1

Ref. No.	Part No.	Description	No. Used
27	32152-4	Nut - Lock	2
28	69-9480	Bracket - Neutral Device	1
29	3219-2	Nut - Hex.	1
30	3249-11	Screw - Cap Hex. Hd.	2
31	69-9040	Cam - Neutral Device	1
32	3253-21	Washer - Lock	3
33	3231-30	Bolt - Carriage	1
34	3217-7	Nut - Hex.	1
35	29-6162	Switch - Neutral	1
36	3234-13	Screw - Hex. Flange Hd.	4
37	3296-9	Nut - Lock	2
38	29-6170	Leaf Spring Assembly	1
39	322-17	Screw - Cap Hex. Hd.	1
40	3210-7	Screw - Cap Hex. Hd.	1
41	251-259	Bearing - Neutral Detent	1
42	321-4	Screw - Cap Hex. Hd.	2
43	29-6150	Spring - Leaf	1
44	32153-3	Nut - Lock	1
45	69-9050	Bar - Neutral Device	1
46	3253-3	Washer - Lock	2
47	321-10	Screw - Cap Hex. Hd.	2
48	340-134	Fitting - Hydraulic Elbow (Incl. Ref. #23)	1
49	41-8760	Gasket - Pump	1
50	69-5663	Hose - Hydraulic	1
51	323-7	Screw - Cap Hex. Hd	2
52	69-2220	Pump/Valve	1

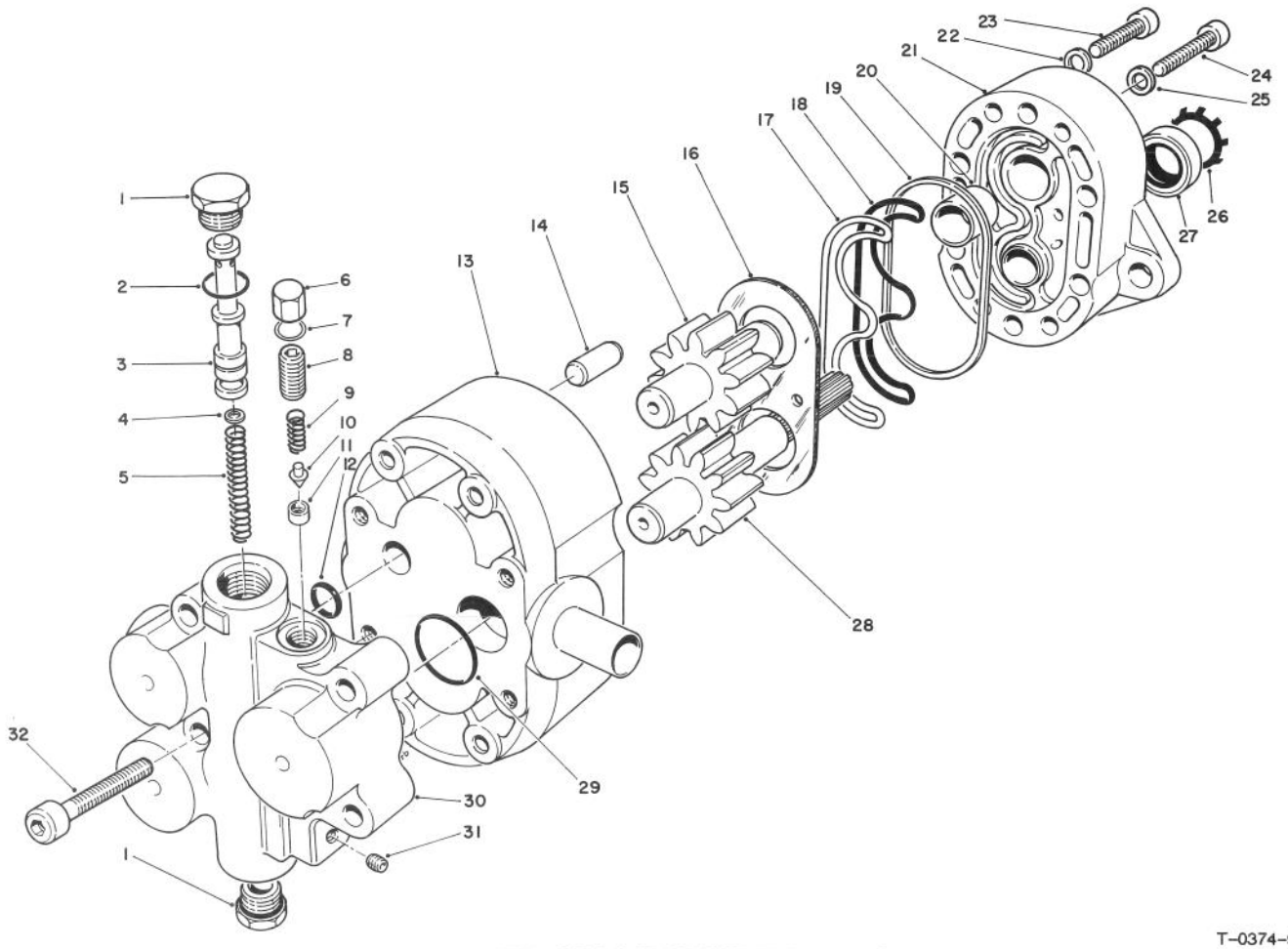


T-0350-90

VARIABLE DISPLACEMENT PUMP INSTALLATION (Cont.)

Ref. No.	Part No.	Description	No. Used
53	327-80	Seal - O-Ring	2
54	340-130	Fitting - Hydraulic Elbow (Incl. Ref. #25 & 53)	1
55	340-105	Fitting - Hydraulic Elbow (Incl. Ref. #17 & 53)	1
56	69-5450	Hose - Hydraulic	1
57	69-5470	Hose - Hydraulic	1
58	69-5440	Hose - Hydraulic	1
59	69-5480	Hose - Hydraulic	1
60	51-3150	Shim - Spring	A/R
*	71-0490	Pump Drive Shaft Assembly (Incl. Ref. #3-8)	1

*Not Illustrated



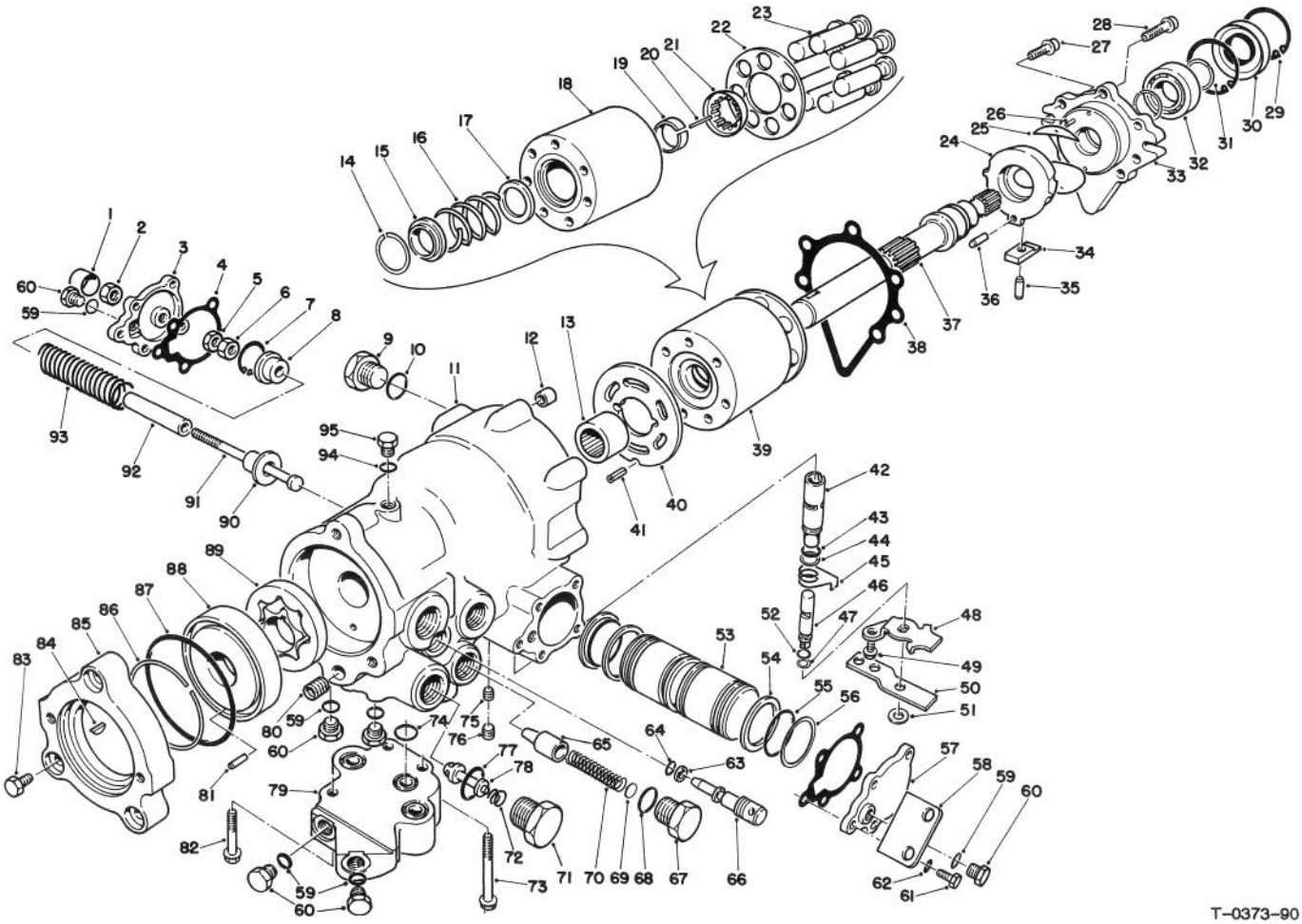
T-0374-90

GEAR PUMP & FLOW DIVIDER NO. 69-2220

Ref. No.	Part No.	Description	No. Used
1	69-2410	Plug (Incl. Ref. #2)	2
2	69-2420	Seal - O-Ring	2
3	69-2450	Piston	1
4	69-2440	Orifice	1
5	69-2430	Spring - Compression	1
6	69-2460	Cap	1
7	69-2470	Gasket - Cap	1
8	69-2480	Screw - Set	1
9	69-2490	Spring - Compression	1
10	69-2500	Poppet	1
11	69-2510	Seat	1
12	69-2530	Seal - O-Ring	1
13	69-2540	Cover Assembly (Incl. Ref. #20)	1
14	69-2340	Pin - Dowel	2
15	69-2280	Shaft/Gear - Idler	1
16	69-2320	Plate - Wear	1
17	69-2260	Seal - Load	1
18	69-2270	Seal - Pre-Load	1
19	69-2350	Ring - Sealing	1

Ref. No.	Part No.	Description	No. Used
20	69-2250	Bearing - Sleeve	4
21	69-2330	Body Assembly (Incl. Ref. #20)	1
22	69-2370	Washer	4
23	69-2360	Screw	4
24	69-2380	Screw	4
25	69-2390	Washer	4
26	69-2300	Ring - Retaining	1
27	69-2310	Seal - Shaft	1
28	69-2290	Shaft/Gear - Drive	1
29	69-2400	Seal - O-Ring	1
30	69-2230	Flow Divider Assembly (Incl. Ref. #1-11 & 31)	1
31	69-2520	Plug - Pipe	1
32	69-2240	Screw	4
*	69-2550	Repair Kit - Pump (Incl. Ref. #16-19, 22 & 25-27)	1
*	69-2560	Repair Kit - Pump & Divider Incl. Ref. #2, 7, 9-10, 12, 16-19, 22, 25-27 & 29)	1

*Not Illustrated



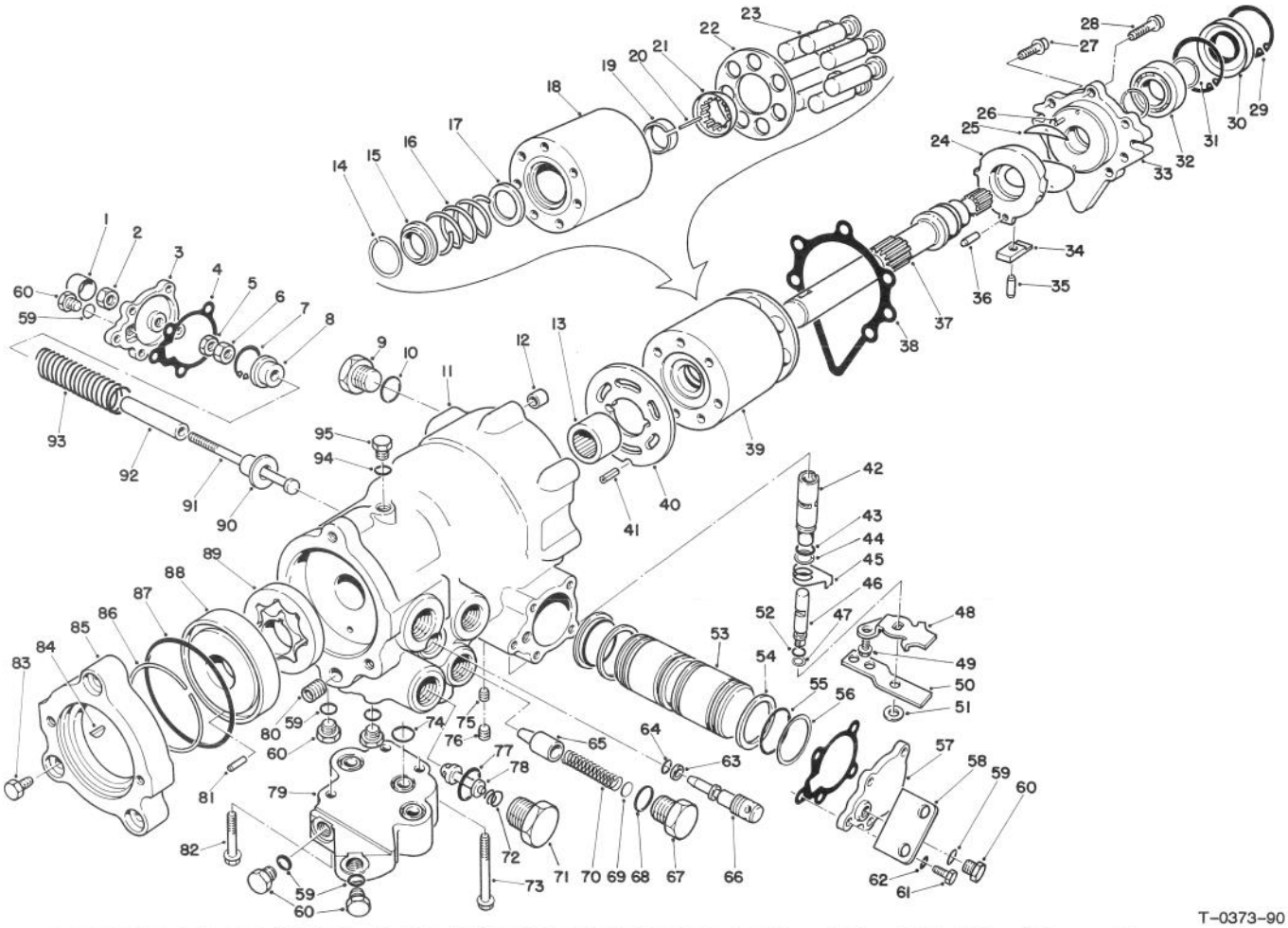
T-0373-90

VARIABLE DISPLACEMENT PUMP NO. 69-3040

Ref. No.	Part No.	Description	No. Used
1	69-3620	Cover - Servo Adjustment	1
2	69-3630	Nut Special	1
3	69-3640	Cover -Servo	1
4	69-3710	Gasket - Servo	2
5	69-3610	Nut - Jam	1
6	69-3600	Nut - Hex.	1
7	69-3590	Ring - Retaining	1
8	69-3580	Guide - Spring	1
9	69-3130	Plug (Incl. Ref. #10)	1
†10		Seal - O-Ring	1
†11		Housing - Pump	1
12	69-3230	Pin - Spring	1
13	69-3370	Bearing - Needle	1
†14		Ring - Retaining	1
†15		Washer	1
†16		Spring - Compression	1
†17		Washer	1
†18		Block - Cylinder	1
†19		Retainer	1
†20		Pin - Slipper Hold Down	3
†21		Guide - Retainer	1
†22		Guide - Slipper	1
†23		Piston - Assembly	7
24	69-3250	Swashplate - Variable	1
25	69-3240	Bearing - Journal	2
26	69-3520	Pin	2
27	76-4590	Screw	6

Ref. No.	Part No.	Description	No. Used
28	69-3220	Screw	1
29	69-3200	Ring - Retaining	2
30	69-3190	Seal - Lip	1
31	69-3170	Ring - Retaining	2
32	69-3210	Bearing - Ball	1
33	76-4610	Cover	1
34	69-3500	Sleeve - Bearing	1
35	69-3510	Pin	1
36	69-3470	Pin	1
37	69-3180	Shaft Pump	1
38	76-4600	Gasket - Cover	1
39	69-3910	Cylinder Block Assembly (Incl. Ref #14-23)	1
40	69-3360	Plate - Valve L.H.	1
41	69-3450	Pin	1
42	69-3820	Sleeve - Control Valve	1
43	28-3590	Seal O-Ring	1
44	28-3580	Ring - Back Up	1
45	69-3880	Spring - Neutral Return	1
46	69-3830	Spool - Rotary Valve	1
47	25-2630	Ring Back Up	1
48	69-3890	Bracket - Neutral Return	1
49	69-3860	Screw - Flange Hd.	1
50	69-3870	Handle - Control Valve	1
51	69-3900	Washer	1
52	69-3840	Seal - O-Ring	1
53	69-3650	Piston - Servo	1

†Not serviceable separately.



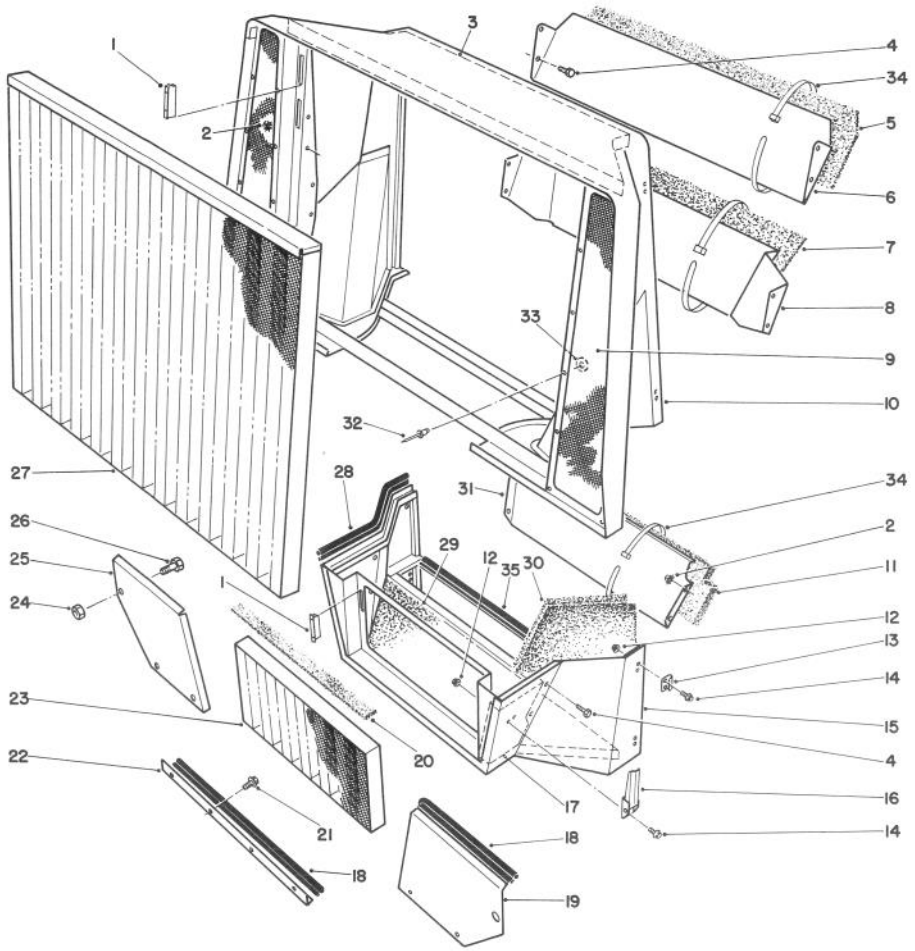
T-0373-90

VARIABLE DISPLACEMENT PUMP NO. 69-3040 (Continued)

Ref. No.	Part No.	Description	No. Used
54	69-3690	Bearing	2
55	69-3560	Seal - O-Ring	2
56	69-3570	Ring - Piston	2
57	69-3720	Cover Servo	1
58	69-3140	Bracket - Lifting	1
†59		Seal - O-Ring	6
60	69-3080	Plug (Incl. Ref. #59)	6
61	69-3150	Screw - Hex. Hd.	10
62	69-3070	Washer - Lock	10
63	25-2630	Ring - Back Up	1
64	237-22	Seal - O-Ring	1
65	69-3800	Valve	1
66	69-3810	Valve - By Pass	1
67	69-3780	Plug (Incl, Ref. #68)	1
68	237-80	Seal - O-Ring	1
69	69-3770	Shim	1
70	69-3790	Spring Compression	1
71	69-3760	Plug Special (Incl. Ref. #77)	2
72	69-3740	Spring - Compression	2
73	69-3110	Screw	2
74	69-3160	Seal -O-Ring	3
75	69-3530	Plug - Orifice	1

Ref. No.	Part No.	Description	No. Used
76	285-17	Plug - Pipe	2
77	69-3750	Seal -O-Ring	2
78	69-3730	Valve - Relief (Incl. Ref. #71, 72 & 77)	2
79	69-3090	Adapter - Suction	1
80	69-3460	Plug Expansion	1
81	69-3550	Pin	1
82	69-3100	Screw	1
83	69-3400	Screw Hex. Hd.	3
84	69-3430	Key - Woodruff	1
85	69-3410	Adapter - A Flange	1
86	69-3420	Ring - Temper Load	1
87	69-3440	Seal - O-Ring	1
88	69-3540	Cover - Gerotor	1
89	69-3390	Gerotor Assembly	1
90	69-3700	Guide - Spring	1
91	69-3660	Screw - Special	1
92	69-3680	Stop - Servo	1
93	69-3670	Spring - Compression Servo	1
†94		Seal O-Ring	1
95	69-3120	Plug (Incl, Ref. #94)	1

†Not serviceable separately.



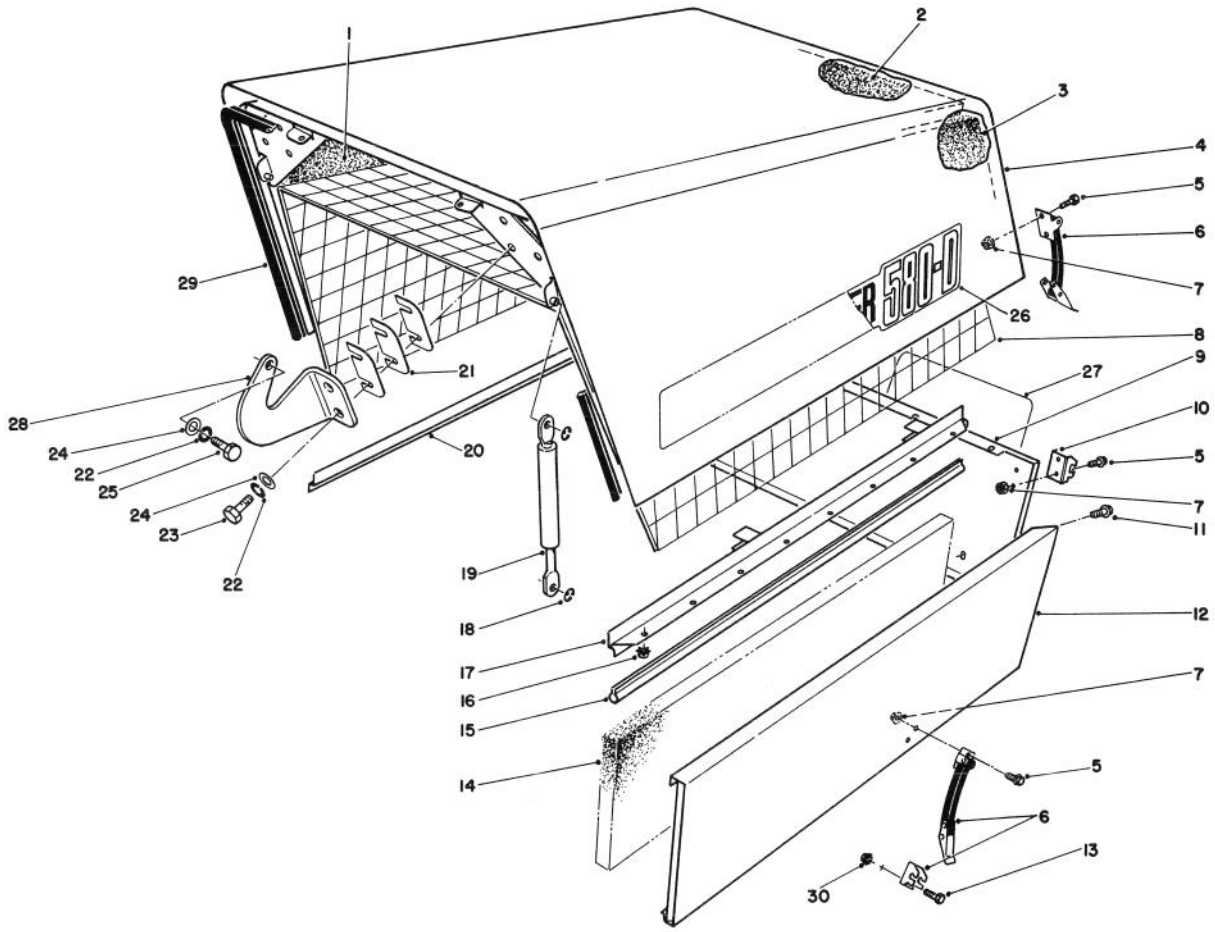
T-0368-90

COWL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	58-4250	Magnet	6
2	32149-2	Nut - Keps	16
3	71-0280	Foam - Cowl Top	1
4	321-2	Screw - Cap Hex. Hd.	16
5	71-0240	Foam - Louver Top	2
6	69-9370	Louver - Top	2
7	71-0230	Foam - Louver Middle	1
8	69-1130	Louver - Middle	1
9	69-9650	Screen - Cowl	2
10	69-8650	Cowl - Radiator	1
11	71-0220	Foam - Louver Lower	1
12	3296-2	Nut - Flange Lock	20
13	69-3030	Strike - Latch	8
14	3290-321	Screw - Hex. Washer Hd.	20
15	69-8690	Support - Grille	1
16	69-3020	Handle - Latch	2
17	71-0300	Foam - Low Front Cowl L.H.	1
*	71-0310	Foam - Low Front Cowl R.H.	1
18	69-9721	Strip - Sealing	3

Ref. No.	Part No.	Description	No. Used
19	75-9460	Bracket - Sealing L.H.	1
20	69-0040	Foam - Lower Grille	1
21	32144-11	Screw - Hex. Flange Hd.	8
22	75-9480	Bracket - Sealing Bottom	1
23	69-7150	Grille - Lower	1
24	32153-6	Nut Lock	2
25	75-9470	Bracket - Sealing R.H.	1
26	328-11	Screw - Cap Hex. Hd.	2
27	69-7120	Grille - Upper	1
28	69-9720	Strip - Sealing	2
29	71-0290	Foam - Cowl Bottom	1
30	71-0330	Foam - Low Rear Cowl L.H.	1
*	71-0320	Foam - Low Rear Cowl R.H.	1
31	69-1140	Louver - Lower	1
32	3269-15	Rivet - Pop	22
33	3269-6	Washer - Backup	22
34	250-5	Tie - Cable	16
35	69-9722	Trim - Sealing	1

*Not Illustrated



T-0360-90

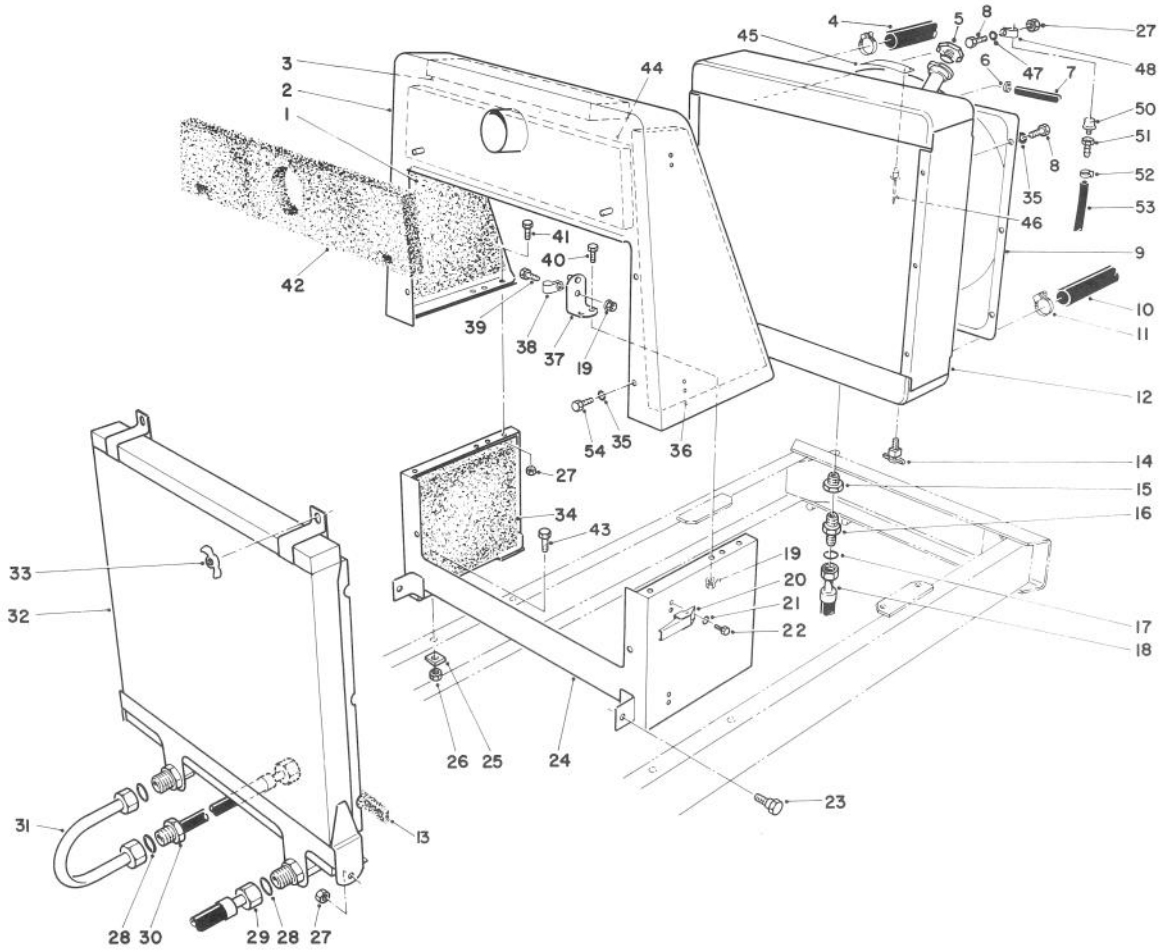
HOOD ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	71-0270	Foam - Hood Side R.H.	1
2	71-0250	Foam - Hood Top	1
3	71-0260	Foam - Hood Side L.H.	1
4	14-0639	Hood Assembly (Incl. Ref.#1-4, 8, 15-17, 20, 26 & 29)	1
5	3290-321	Screw - Cap Hex. Hd.	12
6	69-3010	Strap - Hold Down (Incl. Ref. #10)	4
7	3296-2	Nut - Flange Lock	12
8	71-0060	Support - Foam	1
9	69-9520	Panel - Rear	1
†10		Latch - Hold - Down	4
11	3234-14	Screw - Cap Hex. Hd.	6
12	69-1390	Panel - Side L.H.	1
*	69-1380	Panel - Side R.H.	1
13	3290-134	Screw - Cap Hex. Hd.	4

Ref. No.	Part No.	Description	No. Used
14	71-0400	Foam - Side Panel	2
15	69-9723	Seal - Hood Bottom	2
16	32149-2	Nut - Keps	16
17	69-8230	Bracket - Trim L.H.	1
18	32151-32	Ring Retaining	4
19	69-0740	Spring - Gas	2
20	69-8250	Bracket - Trim R.H	1
21	69-8500	Shim - Hinge Bracket	6
22	3253-21	Washer - Lock	6
23	323-6	Screw - Cap Hex. Hd.	4
24	3256-24	Washer - Flat	6
25	323-4	Screw - Cap Hex. Hd.	2
26	69-0950	Decal - 580D	2
27	66-6140	Decal - TORO	1
28	69-8520	Bracket - Hinge	2
29	69-9724	Seal - Hood Front	1
30	32149-7	Nut	4

*Not Illustrated

†Not serviceable separately.

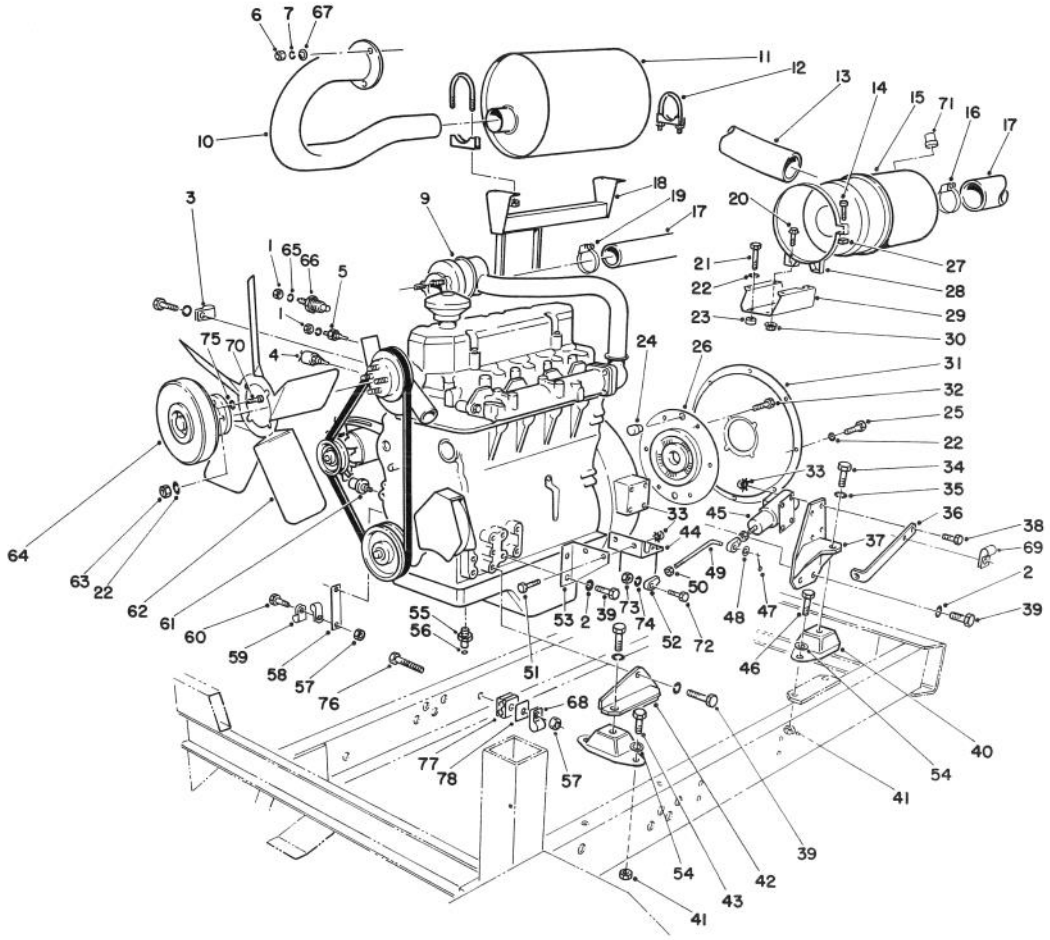


T-0359A-90

RADIATOR & OIL COOLER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	71-0350	Foam - Rad. Support R.H.	1
2	69-8590	Support - Radiator Upper	1
3	71-0360	Foam - Rad. Support Top	1
4	69-5380	Hose - Upper Radiator	1
5	66-3241	Cap - Radiator	1
6	2412-6	Clamp - Hose	1
7	23-2140	Hose - Radiator Vent	1
8	323-34	Screw - Cap Hex. Hd.	7
9	13-4239	Shroud - Fan (Incl. Ref. #45 & 46)	1
10	69-5390	Hose - Lower Radiator	1
11	2412-92	Clamp - Hose	4
12	69-1640	Radiator	1
13	71-0210	Foam - Radiator Seal	1
14	304-46	Valve - Drain	1
15	2812-4	Fitting - Reducer	2
16	340-124	Fitting - Hydraulic Straight (Incl. Ref. #17)	2
17	237-22	Seal - O-Ring	2
18	69-8430	Hose - Hydraulic	2
19	32128-20	Nut - Flange Lock	5
20	69-3020	Latch	8
21	3253-2	Washer - Lock	16
22	3290-321	Screw - Cap Hex. Hd.	16
23	46-3380	Bolt - Shoulder	2
24	69-7100	Support - Radiator Lower	1
25	3290-216	Washer - Bevel	4
26	32153-5	Nut - Lock	4

Ref. No.	Part No.	Description	No. Used
27	32152-2	Nut - Lock	7
28	340-65	Seal - O-Ring	3
29	69-5620	Hose - Hydraulic	1
30	69-8450	Hose - Hydraulic (Incl. Ref. #28)	1
31	69-5900	Tube - Hydraulic	1
32	69-1670	Cooler - Oil (Incl. Ref. #28)	1
33	32103-3	Nut - Wing	2
34	71-0370	Foam - Lower Rad. Support	2
35	3253-21	Washer - Lock	12
36	71-0340	Foam - Rad. Support L.H.	1
37	69-7260	Bracket - Hood Cylinder	2
38	2412-70	Clamp - R	1
39	322-5	Screw - Cap Hex. Hd.	1
40	322-6	Screw - Cap Hex. Hd.	4
41	323-7	Screw - Cap Hex. Hd.	4
42	71-0380	Foam - Rad. Support Front	1
43	325-6	Screw - Cap Hex. Hd.	2
44	71-0390	Foam - Rad. Support Rear	1
45	76-8750	Plate - Caution	2
46	3290-271	Rivet - Pop	4
47	3256-56	Washer - Flat	2
48	2412-82	Clamp - R	1
50	43-8510	Breather	1
51	354-32	Fitting	1
52	2412-108	Clamp - Hose	2
53	71-2680	Hose - Vent	1
54	32144-69	Screw - Cap, Hex. Hd.	6



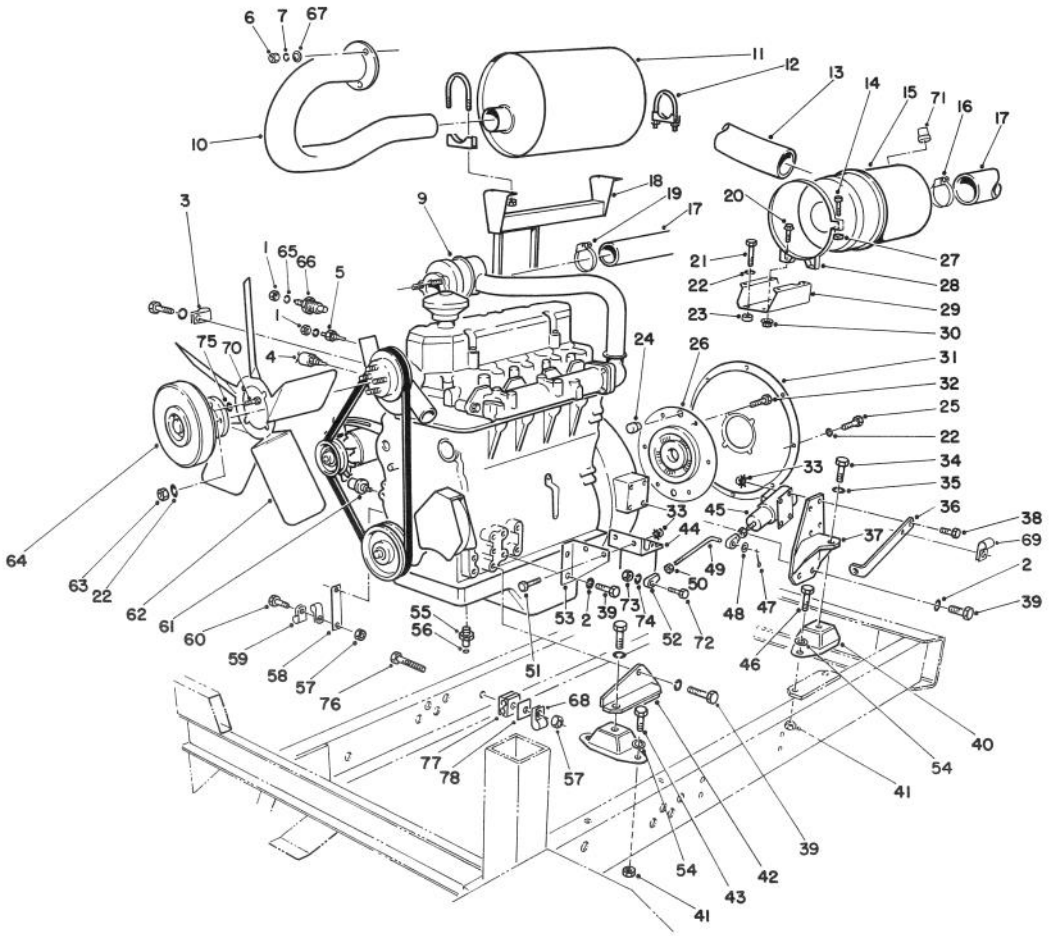
T-0347-90

ENGINE INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3219-14	Nut - Hex.	2
2	48-8070	Washer - Lock	16
3	2412-70	Clamp - R	1
4	67-4510	Sending Unit - Temperature	1
5	39-7592	Switch - Temperature	1
6	48-7930	Nut - Lock	3
7	48-9570	Washer - Lock	3
9	69-6250	Engine - Assembly	1
10	76-0980	Pipe - Exhaust	1
11	69-9420	Muffler	1
12	20-4840	Clamp - Exhaust	2
13	69-5350	Hose - Air Cleaner Inlet	1
14	3258-19	Screw - Machine	2
15	69-1890	Air Cleaner Assembly	1
16	2412-110	Clamp - Hose	3
17	69-5360	Hose - Air Cleaner	1
18	69-7610	Bracket - Muffler	1
19	2412-42	Clamp - Hose	1
20	3234-14	Screw - Hex. Washer Hd.	4
21	48-9480	Screw - Cap Hex. Hd.	4
22	48-9590	Washer - Lock	16
23	17-7190	Spacer	4
24	58-3590	Pin - Flywheel	2
25	48-9470	Screw - Cap Hex. Hd.	8
26	48-6260	Coupling - Spring Centering	1
27	32107-11	Nut - Square	2
28	69-1950	Band - Air Cleaner	

Ref. No.	Part No.	Description	No. Used
		(Incl. Ref. #14 & 27)	2
29	69-9530	Bracket - Air Cleaner	1
30	32128-20	Nut - Flange Lock	4
31	69-9550	Plate - Adapter	1
32	48-7780	Screw - Cap Hex. Hd.	6
33	32149-2	Nut - Keps	6
34	69-8410	Screw - Cap Hex. Hd.	4
35	69-8420	Washer - Lock	4
36	69-8490	Bracket - Throttle Cable	1
37	69-7540	Bracket - Rear Eng. Mount	2
38	321-6	Screw - Cap Hex. Hd.	4
39	69-0060	Screw - Cap Hex. Hd.	16
40	69-1660	Mount - Engine	4
41	32153-5	Nut - Lock	8
42	69-7580	Bracket - Front Engine Mount L.H.	1
*	69-7570	Bracket - Front Engine Mount R. H.	1
43	325-17	Screw - Cap Hex. Hd.	4
44	69-1750	Fuel Filter Assembly	1
45	69-4330	Solenoid - Engine Run	1
46	325-4	Screw - Cap Hex. Hd.	4
47	3272-6	Pin - Cotter	1
48	3256-1	Washer - Flat	1
49	69-9110	Rod - Engine Run Solenoid	1
50	3220-1	Nut - Jam	2
51	321-4	Screw - Cap Hex. Hd.	2

*Not Illustrated



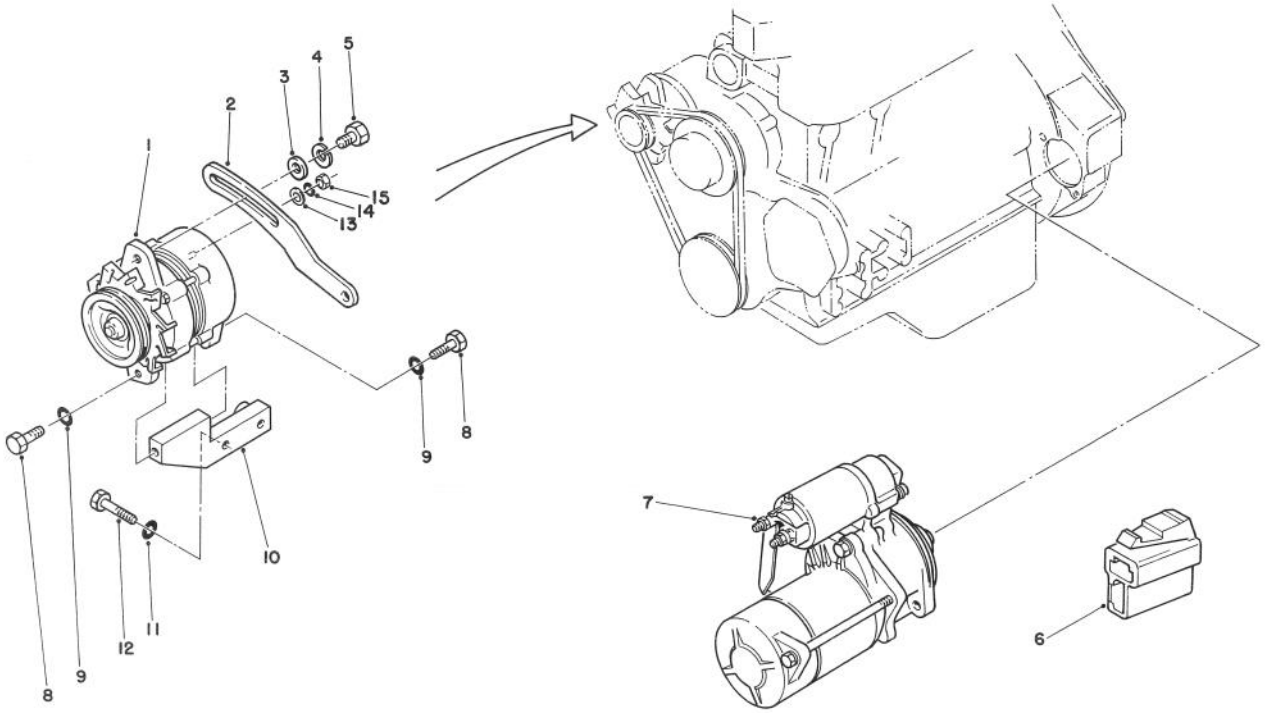
T-0347-90

ENGINE INSTALLATION ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
52	2411-41	End - Rod	2
53	69-9360	Bracket - Fuel Filter	1
54	3256-26	Washer - Flat	8
55	69-8460	Fitting - Hydraulic Straight (Incl. Ref. #56)	2
56	237-22	Seal - O-Ring	2
57	32152-1	Nut - Lock	2
58	69-9070	Bracket - Clamp	1
59	2412-41	Clamp - R	2
60	323-6	Screw - Cap Hex. Hd.	1
61	71-4280	Sending Unit - Oil Pressure	1
62	69-1680	Fan	1
63	69-9710	Nut - Lock	4
64	69-1690	Clutch - Fan	1

Ref. No.	Part No.	Description	No. Used
65	3253-2	Washer - Lock	2
66	39-7591	Thermo Switch Assembly	1
67	3256-3	Washer - Flat	3
68	2412-39	Clamp - R	1
69	2412-73	Clamp - R	1
70	323-4	Screw - Cap Hex. Hd.	4
71	69-1940	Indicator - Electrical	1
72	48-7630	Screw	1
73	48-7890	Nut - Hex.	1
74	3253-3	Washer - Lock	1
75	3253-21	Washer - Lock	4
76	322-13	Screw - Cap Hex. Hd.	1
77	56-7974	Clamp Half - Hydraulic Line	2
78	69-9761	Plate - Cover	1

*Not Illustrated

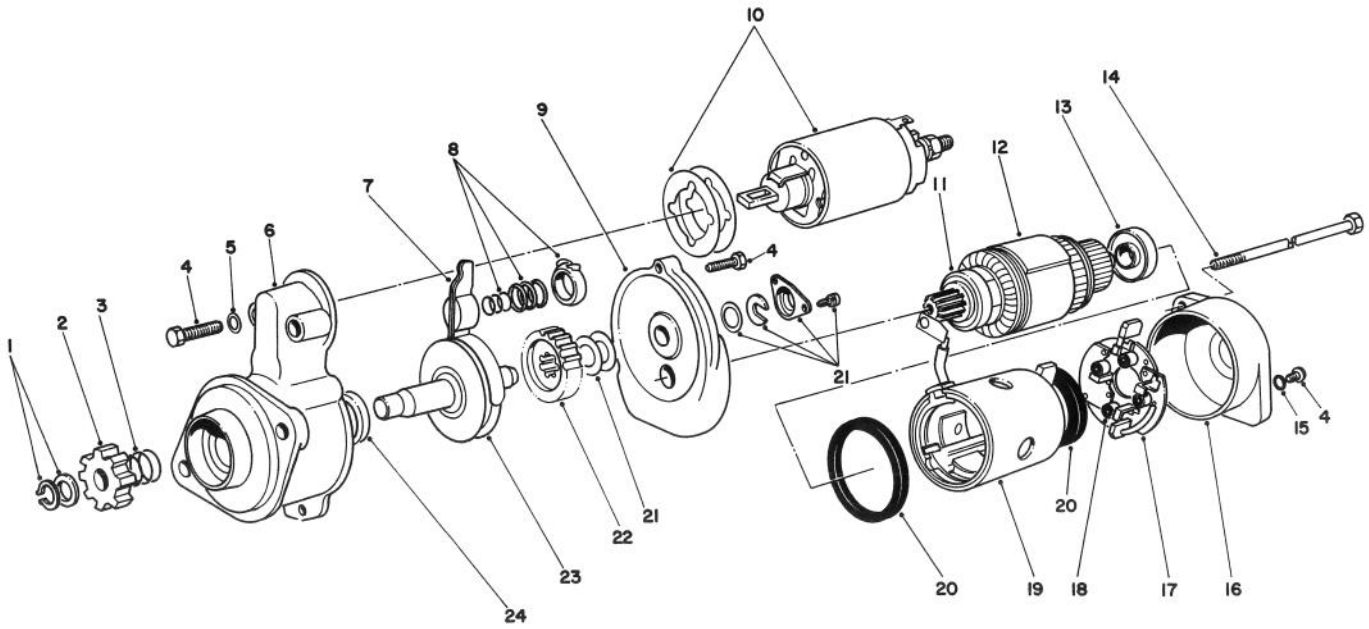


T-0580-90

STARTER & ALTERNATOR INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	70-5760	Alternator Assembly	1
2	70-5740	Plate	1
3	51-8590	Washer	1
4	51-7250	Washer - Lock	1
5	60-7370	Bolt	1
6	59-6910	Connector	1
7	70-5860	Starter Assembly	1
8	51-8640	Bolt	2

Ref. No.	Part No.	Description	No. Used
9	51-6390	Washer - Lock	2
10	70-5750	Bracket	1
11	51-8610	Washer - Lock	2
12	70-2940	Bolt	2
13	5-3637	Washer - Flat	1
14	43-5920	Washer - Lock	1
15	43-5970	Nut - Hex.	1



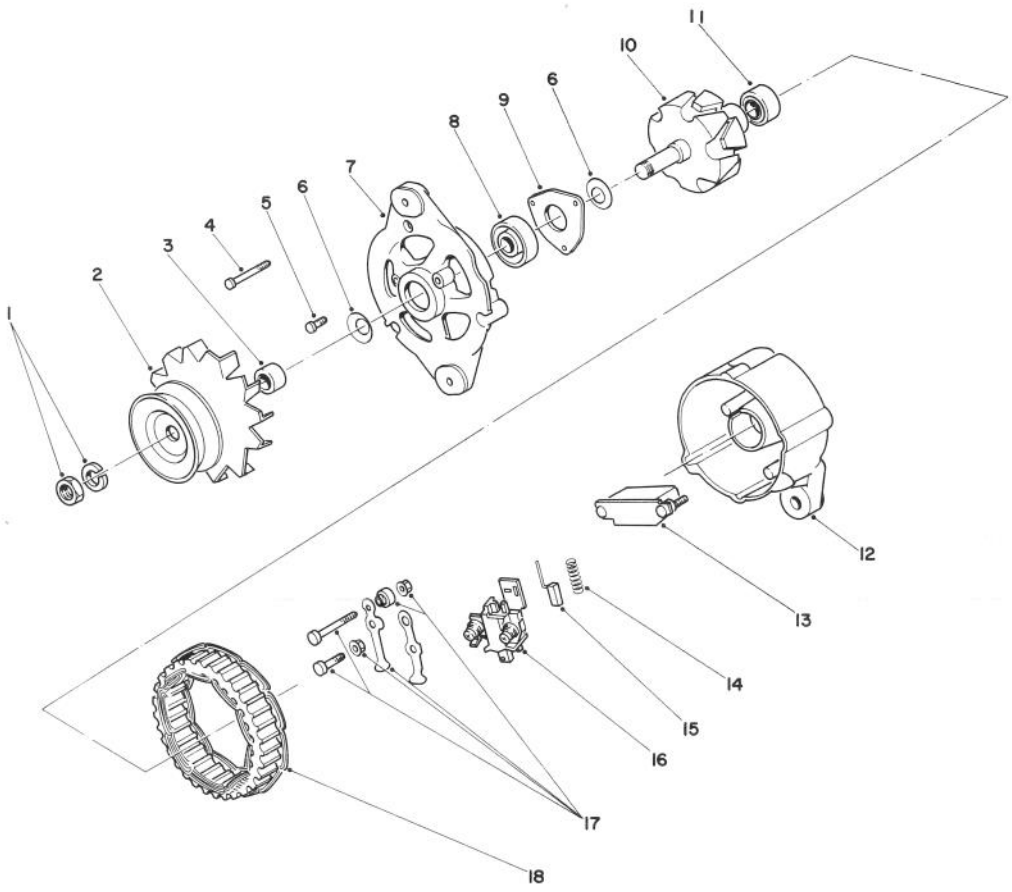
T-0160-90

STARTER MOTOR ASSEMBLY NO. 70-5860

Ref. No.	Part No.	Description	No. Used
1	51-7740	Retaining Ring Assembly	1
2	51-7730	Gear Pinion Assembly (Incl. Ref. #1 & 3)	1
†3		Spring	1
4	51-7600	Screw Set	1
5	51-7610	Packing	2
6	70-3280	Cover Assembly Front (Incl. Ref. #24)	1
7	51-7640	Lever Assembly	1
8	51-7650	Spring Assembly	1
9	51-7660	Bracket Assembly Center	1
10	51-7670	Solenoid	1
11	51-7690	Bearing	1
12	70-3260	Armature Assembly (Incl. Ref. #11 & 13)	1
13	70-3330	Bearing	1

Ref. No.	Part No.	Description	No. Used
14	70-3310	Bolt Set	1
15	51-7840	Ring - Rubber	2
16	51-7830	Cover - Rear	1
17	70-3290	Brush Holder Assembly (Incl. Ref. #18)	1
18	70-3270	Spring - Brush	4
19	70-3300	Yoke Assembly	1
20	51-7790	Packing	2
21	51-7780	Cover Assembly	1
22	51-7770	Gear - Pinion	1
23	51-7760	Shaft Assembly	1
24	51-7630	Seal - Oil	1
*	51-7750	Gear Assembly (Incl. Ref. #22 & 23)	1
*	51-7720	Clutch Assy. (Incl. Ref. #1-3 & 21-24)	1

*Not Illustrated
†Not Serviceable Separately



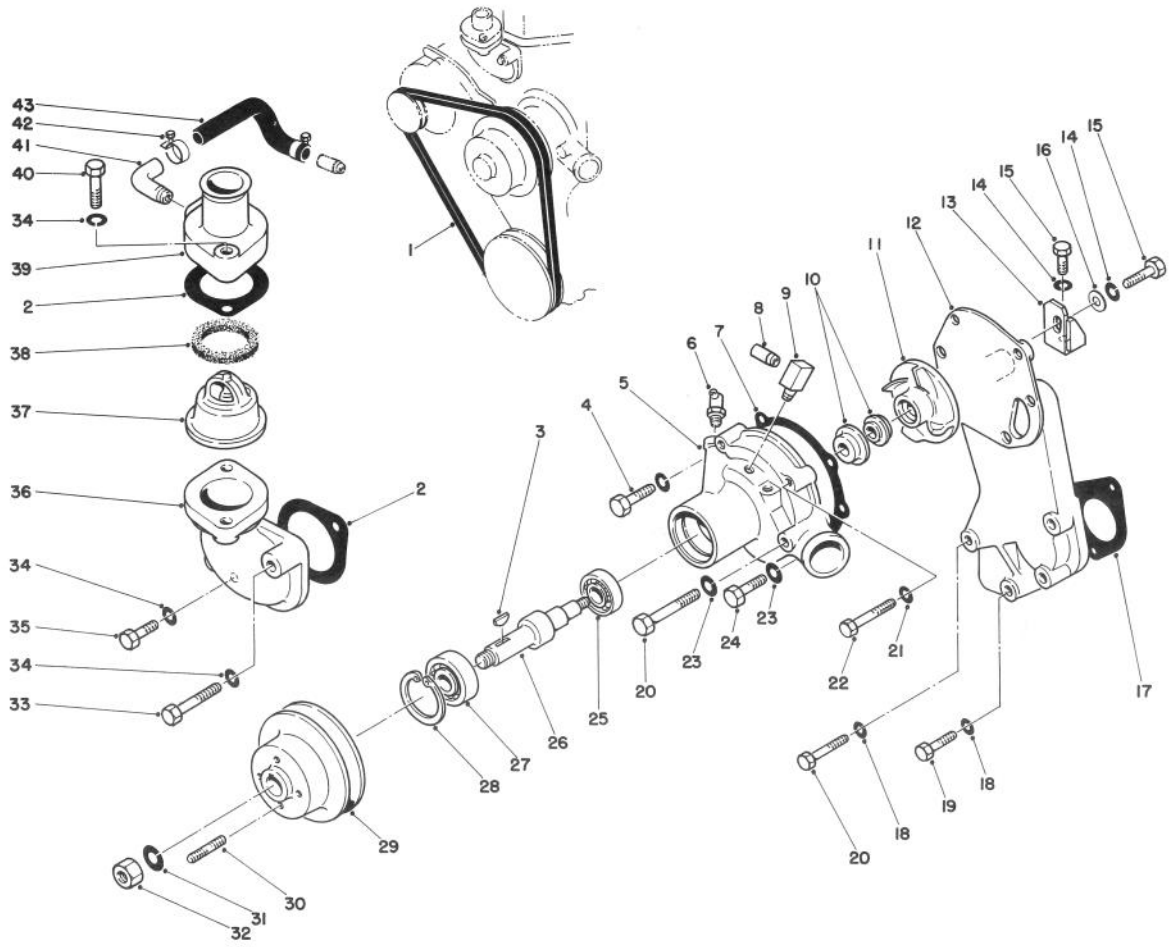
T-0161-90

ALTERNATOR ASSEMBLY NO. 70-5760

Ref. No.	Part No.	Description	No. Used
1	51-7850	Nut Assembly	1
2	70-2800	Pulley Assembly (Incl. Ref. #3)	1
†3		Collar - Shaft	1
4	51-7870	Screw Set	1
5	51-7890	Screw Set	1
†6		Spring Washer	2
7	60-5340	Cover Assembly - Front (Incl. Ref. #5, 6, 8 & 9)	1
8	70-3320	Bearing	1
†9		Plate - Bearing Retainer	1

Ref. No.	Part No.	Description	No. Used
10	51-7910	Rotor Assembly (Incl. Ref. #11)	1
11	60-5360	Bearing	1
12	60-5380	Cover Assembly - Rear (Incl. Ref. #13-17)	1
13	60-5370	Rectifier Assembly	1
14	70-2810	Spring - Return	2
15	51-7970	Brush	2
16	51-7960	Regulator Assembly (Incl. Ref. #14 & 15)	1
17	51-7950	Terminal Assembly	1
18	51-7930	Stator	1

†Not Serviceable Separately



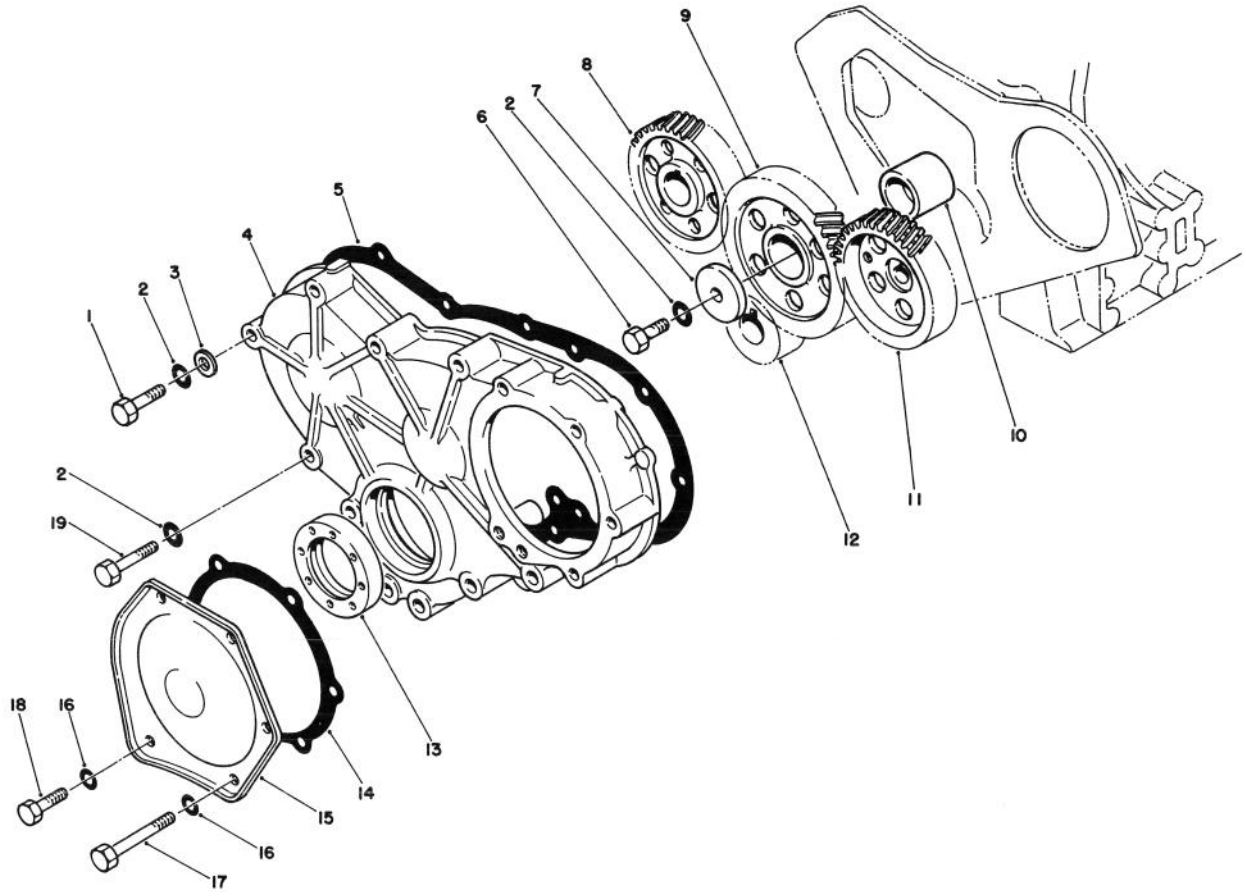
T-0581-90

WATER PUMP ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	70-3450	V-Belt	1
†2	51-7210	Gasket	2
3	51-6960	Key	1
4	70-2910	Bolt	1
5	70-5600	Water Pump Assembly (Incl. Ref #3-4, 6-11 & 25-32)	1
6	51-7020	Nipple	1
7	70-5650	Gasket	1
8	51-7170	Pipe	1
9	70-5620	Connector	1
10	51-7030	Seal	1
11	70-5610	Impeller	1
12	70-5640	Bracket	1
13	70-5670	Stay	1
14	51-6390	Washer - Lock	2
15	70-2890	Bolt	2
16	70-2990	Washer	1
†17	70-5660	Gasket	1
18	51-6390	Washer - Lock	4
19	70-2900	Bolt	1
20	70-2920	Bolt	3
21	51-6920	Washer - Lock	2

Ref. No.	Part No.	Description	No. Used
22	70-2850	Bolt	2
23	51-6390	Washer - Lock	4
24	51-4910	Bolt	2
25	51-6980	Bearing	1
26	70-5630	Shaft	1
27	51-6950	Bearing	1
28	51-6940	Ring	1
29	70-5680	Pulley	1
30	70-2950	Stud	4
31	51-6920	Washer - Lock	1
32	51-6910	Nut	1
33	70-2860	Bolt	1
34	51-7250	Washer - Lock	4
35	60-7280	Bolt	1
36	70-5690	Elbow	1
37	51-7230	Thermostat	1
†38	51-7220	Gasket	1
39	70-5050	Cover	1
40	60-7040	Bolt	2
41	70-5590	Connector	1
42	51-7200	Clamp	2
43	70-5040	Hose	1

†Included in Gasket Set No. 70-6950



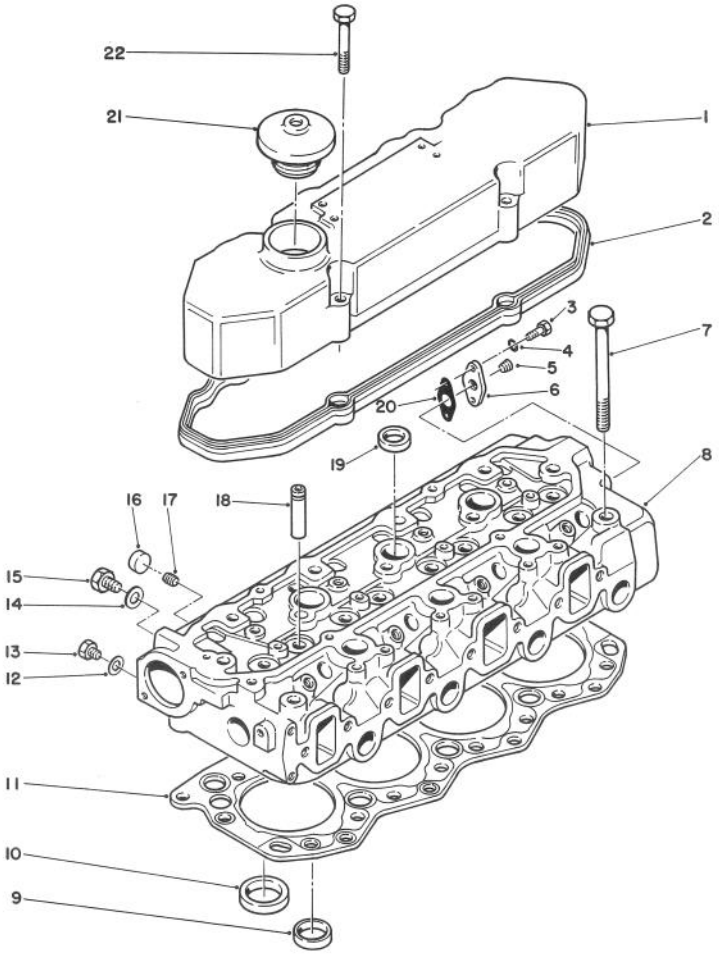
T-0582-90

TIMING GEAR CASE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	51-4920	Bolt	1
2	51-6390	Washer - Lock	11
3	70-2990	Washer	1
4	70-5790	Case	1
†5	70-5370	Gasket	1
6	60-7210	Bolt	1
7	51-6400	Plate	1
8	70-5020	Gear - Camshaft	1
9	70-5450	Idler Assembly (Incl. Ref. #10)	1

Ref. No.	Part No.	Description	No. Used
10	51-6430	Bushing	1
11	70-6040	Gear - Injection Pump	1
12	70-5830	Gear - Crankshaft	1
†13	70-5780	Seal	1
†14	51-5860	Gasket	1
15	51-5850	Cover	1
16	51-7250	Washer - Lock	5
17	70-2860	Bolt	4
18	60-7110	Bolt	1
19	70-2930	Bolt	9

†Included in Gasket Set No. 70-6950
‡Included In Oil Seal Kit No. 70-6960



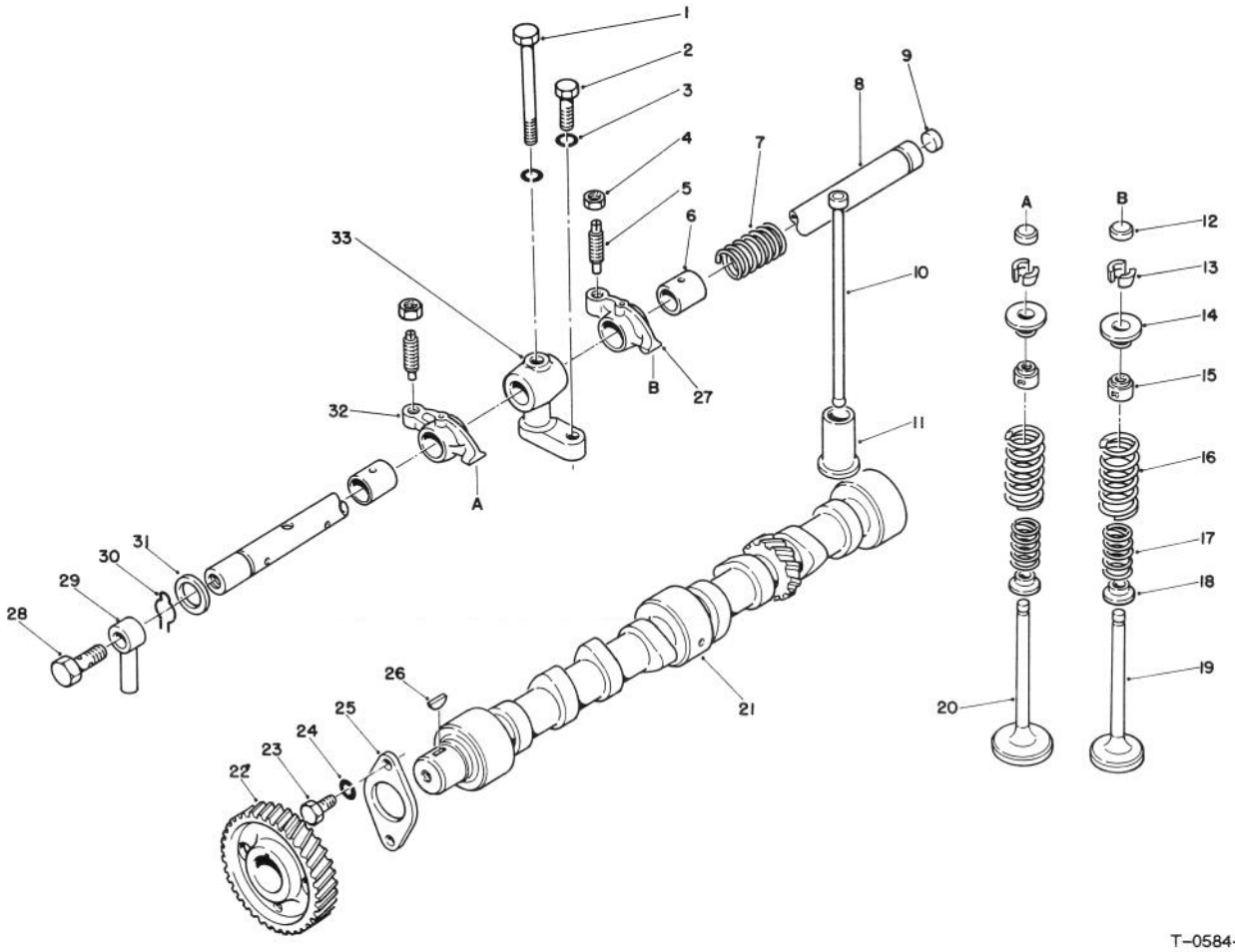
T-0583-90

ROCKER COVER & CYLINDER HEAD ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	70-5220	Cover	1
†2	70-5210	Gasket	1
3	60-7280	Bolt	2
4	51-7250	Washer - Lock	2
5	70-5140	Plug	1
6	70-5890	Flange	1
7	63-4740	Bolt	17
8	70-5900	Cylinder Head Assembly (Incl. Ref. #3-6, 9-10 & 12-20)	1
9	70-5870	Insert - Exhaust	4
10	70-5880	Insert - Inlet	4

Ref. No.	Part No.	Description	No. Used
†11	70-5130	Gasket	1
†12	51-5840	Washer	1
13	70-3100	Plug	1
†14	51-6890	Gasket	1
15	70-3230	Plug	1
16	70-3360	Cap	4
17	70-3390	Plug	4
18	51-4950	Guide	8
19	70-3380	Cap	15
20	70-5090	Gasket	1
21	51-5350	Cap	1
22	70-2930	Bolt	4

†Included in Gasket Set No. 70-6950



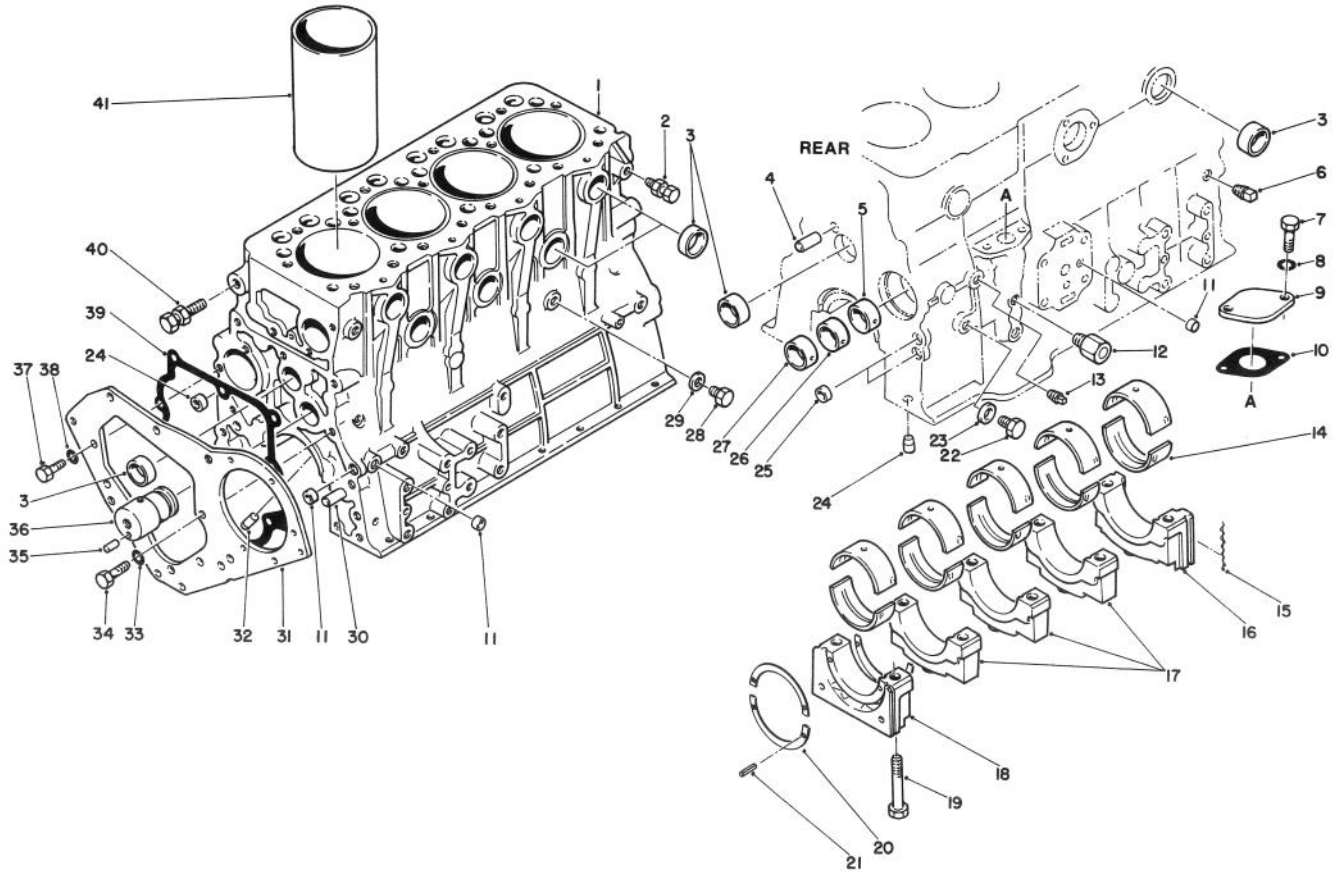
T-0584-90

VALVE & CAMSHAFT ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	70-2870	Bolt	4
2	60-7280	Bolt	4
3	51-7250	Washer - Lock	8
4	70-2970	Nut	8
5	70-3160	Screw	8
6	70-5080	Bushing	8
7	70-5190	Spring	3
8	70-5180	Rocker Shaft Assembly (Incl. Ref. #9)	1
9	51-5090	Plug	1
10	70-5230	Rod - Push	8
11	70-5010	Tappet	8
12	51-5280	Cap	8
13	51-5290	Cotter (Available in set w/pair)	16
14	51-5300	Retainer	8
‡15	51-5310	Seal	8
16	70-5930	Spring	8
17	70-4990	Spring	8

Ref. No.	Part No.	Description	No. Used
18	70-5000	Retainer	8
19	70-5920	Valve - Exhaust	4
20	70-5910	Valve - Inlet	4
21	70-5940	Camshaft	1
22	70-5020	Gear - Camshaft	1
23	60-7110	Bolt	2
24	51-7250	Washer - Lock	2
25	51-5470	Plate	1
26	51-5460	Key	1
27	70-5160	Rocker Assembly - Exhaust (Incl. Ref. #4-6)	4
28	70-3050	Bolt	1
29	70-5170	Pipe	1
30	51-5260	Ring - Retaining	2
31	70-5110	Washer	2
32	70-5150	Rocker Assembly - Intake (Incl. Ref. #4-6)	4
33	70-5200	Bracket	4

‡Included in Oil Seal Kit No. 70-6960



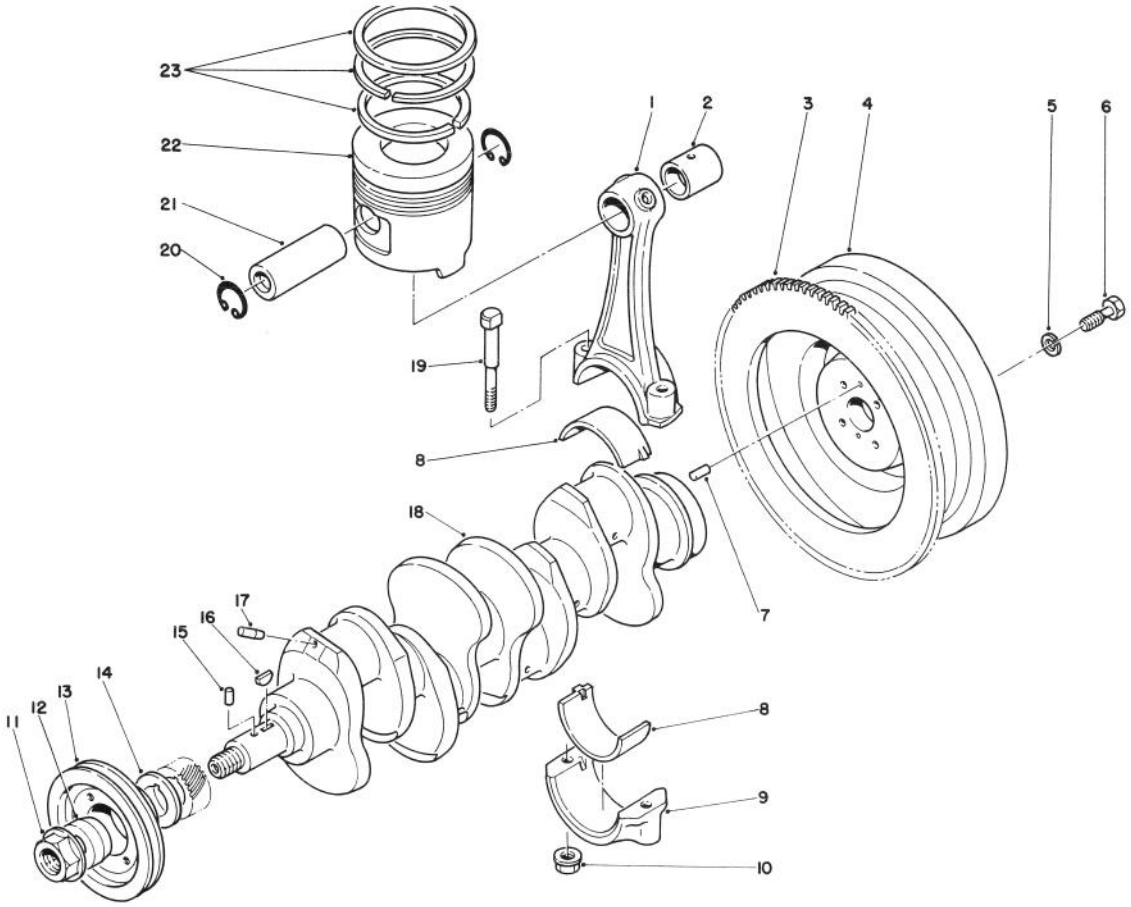
T-0585-90

CRANKCASE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	70-5960	Crankcase Assembly (Incl. Ref. #2-6, 11, 13, 15-19, 21-30, 32, 35-36, & 40-41)	1
2	51-5580	Hanger	1
3	51-5600	Cap	11
4	70-3000	Pin	2
5	51-5500	Bushing No. 1	1
6	70-3400	Plug	6
7	60-7280	Bolt	2
8	51-7250	Washer	2
9	51-6480	Cover	1
†10	51-6490	Gasket	1
11	70-3350	Cap	6
12	70-5950	Connector	1
13	70-3410	Plug	1
14	70-5350	Bearing - Main (Std.)	10
‡15	70-5240	Seal	4
16		Cap - Bearing No. 1	1
17		Cap - Bearing No. 2,3, & 4	3
18		Cap - Bearing No. 5	1
19	70-5300	Bolt	10
20	70-5360	Plate - Thrust (Std.)	3

Ref. No.	Part No.	Description	No. Used
21	51-5650	Pin	6
22	70-3120	Plug	1
†23	70-3080	Gasket	1
24		Plug	2
25	70-3370	Cap	3
26	51-5510	Bushing - No. 2	1
27	51-5520	Bushing - No. 3	1
28	51-8280	Bolt	1
†29	51-8270	Washer	1
30	70-5320	Pin	2
31	70-5250	Plate	1
32	70-5340	Valve	4
33	51-6390	Washer	1
34	70-2890	Bolt	1
35	51-5650	Pin	1
36	51-5640	Idler Shaft Assembly (Incl. Ref. #35)	1
37	60-7110	Bolt	1
38	51-7250	Washer	1
†39	70-5260	Gasket	1
40	70-5290	Hanger	1
41	70-5280	Sleeve	4

†Included in Gasket Set No. 70-6950
‡Included In Oil Seal Kit No. 70-6960

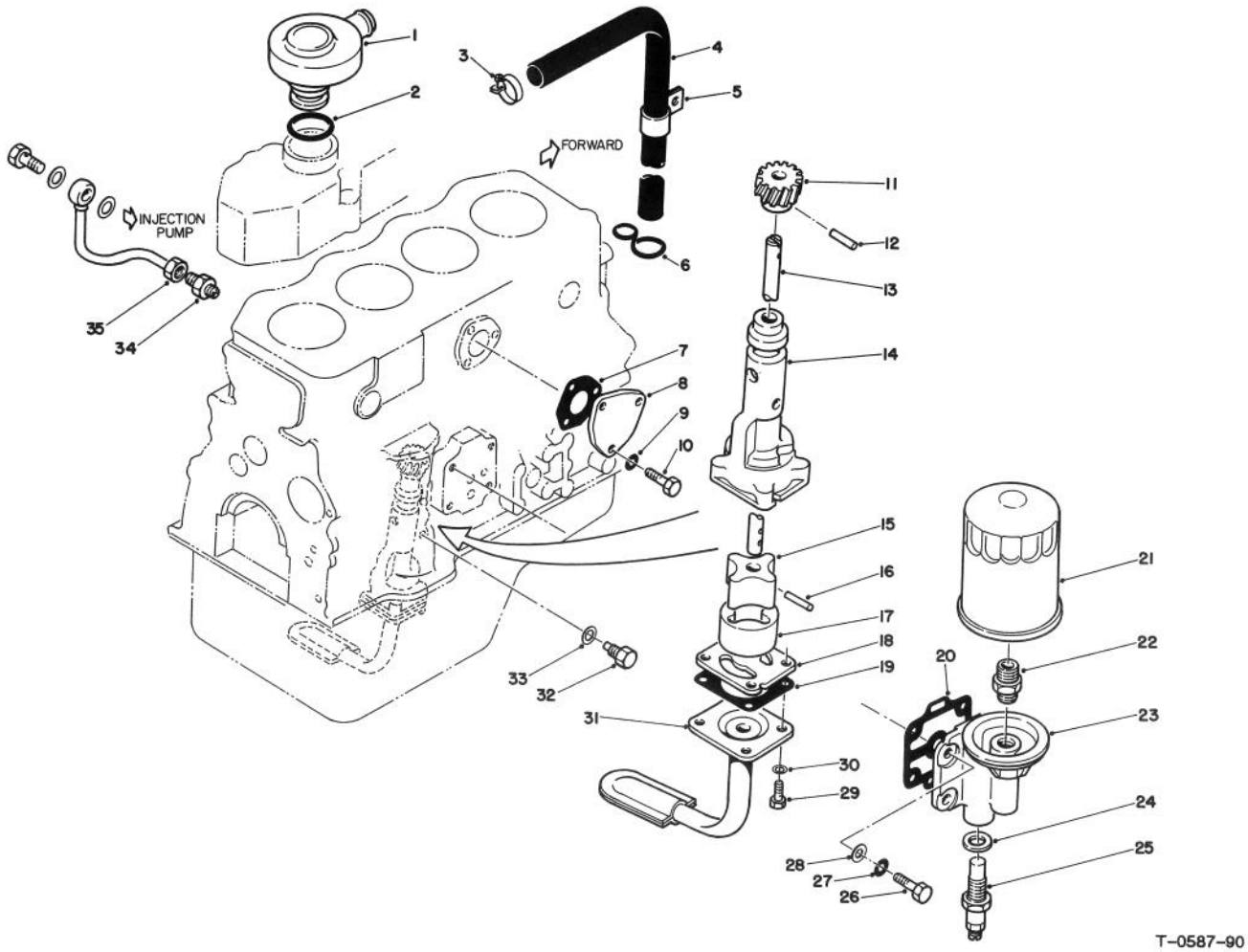


T-0586-90

PISTON, CONNECTING ROD, CRANKSHAFT & FLYWHEEL

Ref. No.	Part No.	Description	No. Used
1	70-5990	Connecting Rod - Std. (Incl. Ref. #2, 8-10 & 19)	4
2	70-6000	Bushing	4
3	51-6350	Gear	1
4	70-6030	Flywheel Assembly (Incl. Ref. #3)	1
5	51-8610	Washer - Lock	4
6	70-2880	Bolt	4
7	70-5800	Pin	2
8	70-5430	Bearing - Rod (Std.)	8
9		Cap	4
10	70-5420	Nut	8
11	70-3170	Nut	1

Ref. No.	Part No.	Description	No. Used
12	70-5820	Cone	1
13	70-5440	Pulley	1
14	70-5810	Plate	1
15	51-5650	Pin	1
16	51-5460	Key	1
17		Plug	2
18	70-6020	Crankshaft Assembly (Incl. Ref. #7, 11, & 15-17)	1
19	70-6010	Bolt	8
20	70-3020	Ring	8
21	70-5410	Pin	4
22	70-5980	Piston (Std.)	4
23	70-5400	Ring Set - Std.	4



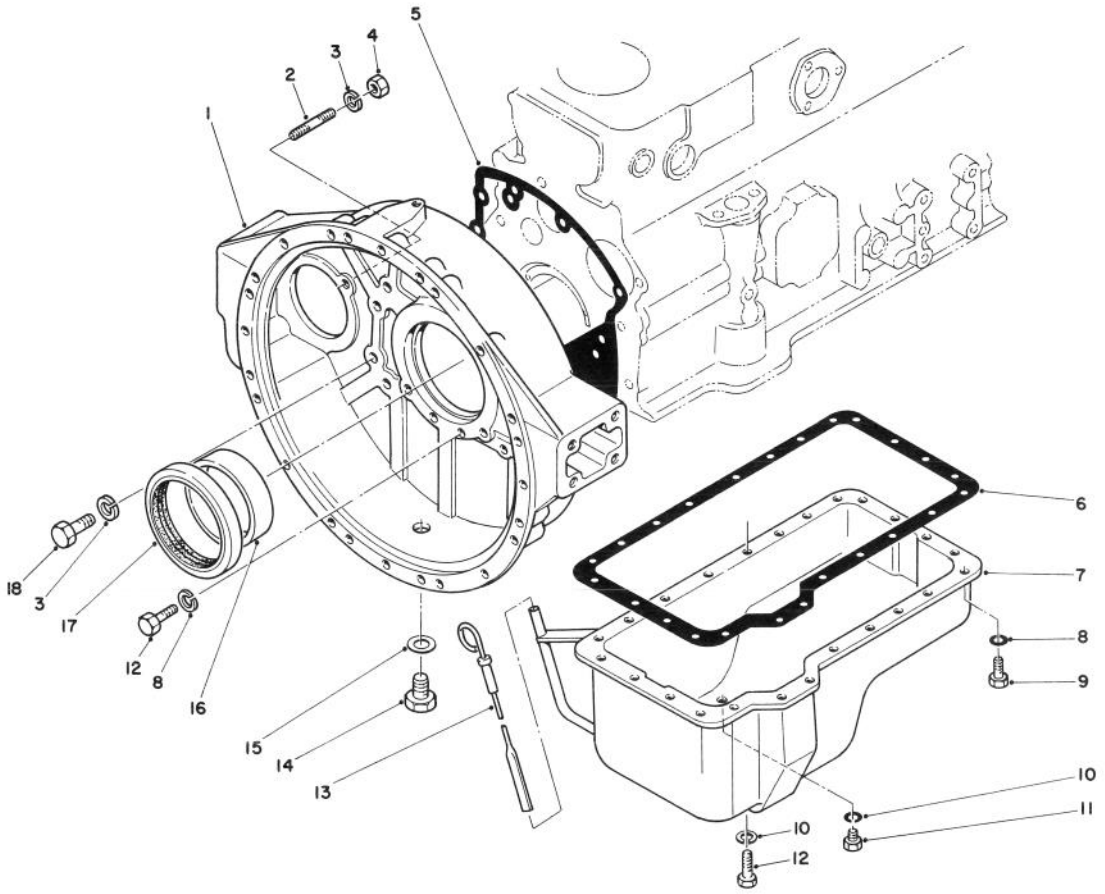
T-0587-90

OIL PUMP, BREATHER & FILTER

Ref. No.	Part No.	Description	No. Used
1	70-5570	Breather	1
†2	70-3220	O-Ring	1
3	70-3090	Clamp	1
4	70-3030	Tube	1
5	70-3420	Clip	1
6	70-5580	Stay	1
†7	70-5100	Gasket	1
8	70-5270	Cover	1
9	51-7250	Washer	3
10	60-7110	Bolt	3
11		Gear	1
12		Pin	1
13		Shaft	1
14	70-5840	Oil Pump Assembly (Incl. Ref. #11-13, 15-18 & 29-30)	1
15		Rotor	1
16		Pin	2
17		Rotor	1
18	70-5850	Cover	1

Ref. No.	Part No.	Description	No. Used
†19	70-5510	Gasket	1
†20	70-5550	Gasket	1
21	49-2500	Element Assembly	1
22	70-5520	Union	1
23	70-5530	Bracket Assembly (Incl. Ref. #22, 24 & 25)	1
24	51-6820	Washer	1
25	51-6830	Relief Valve Assembly	1
26	60-7480	Bolt	4
27	51-6390	Washer - Lock	4
28	70-2990	Washer	4
29	60-7290	Bolt	4
30	51-7400	Washer	4
31	70-5500	Strainer	1
32	70-5120	Bolt	1
†33	70-3070	Gasket	1
34	70-3340	Connector	1
35	70-5030	Pipe	1
*	70-5540	Oil Filter Assembly (Incl. Ref. #21-25)	1

†Included in Gasket Set No. 70-6950



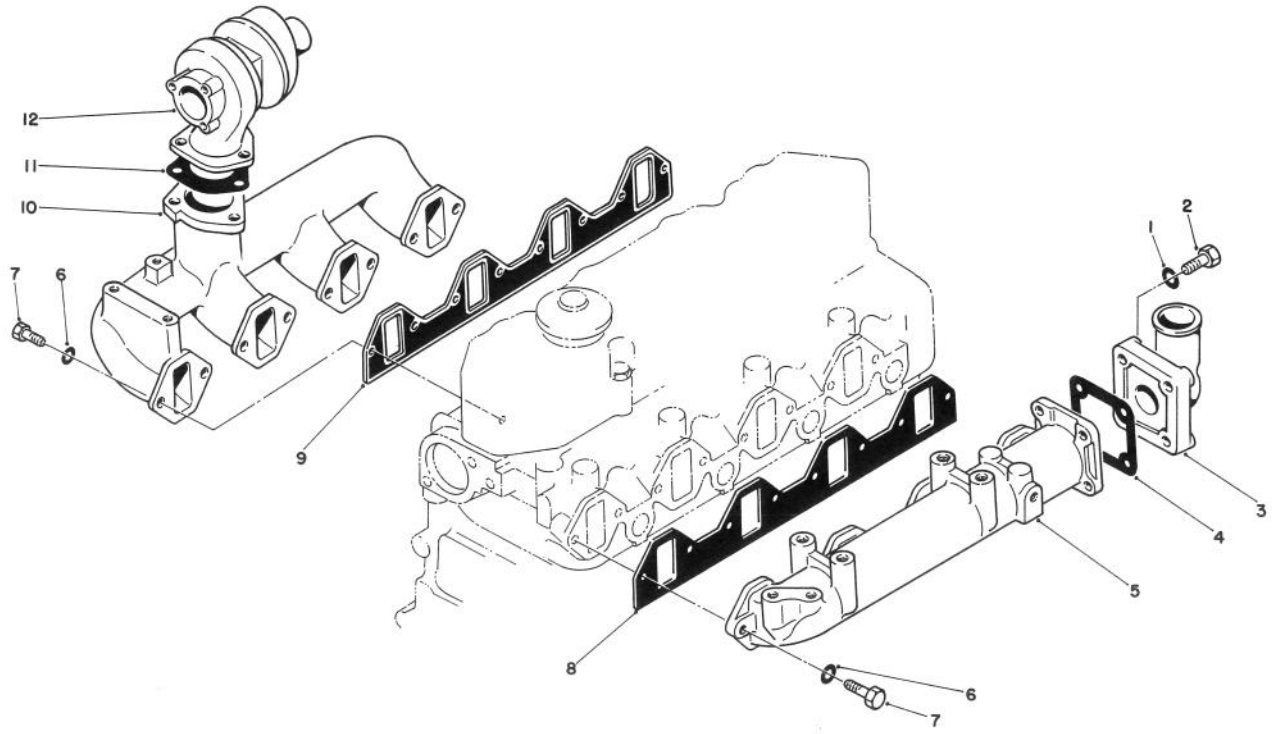
T-0588-90

FLYWHEEL HOUSING & OIL PAN ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	70-5970	Housing	1
2	51-5950	Stud	2
3	51-6390	Washer - Lock	13
4	51-5970	Nut	2
†5	70-5330	Gasket	1
†6	70-5390	Gasket	1
7	70-5380	Pan - Oil (Incl. Ref. #10 & 11)	1
8	51-7250	Washer - Lock	28
9	60-7280	Bolt	23

Ref. No.	Part No.	Description	No. Used
†10	70-3470	Washer - Drain Plug	1
11	70-3110	Plug - Drain	1
12	60-7370	Bolt	5
13	70-5560	Gage	1
14	70-3230	Plug	1
†15	51-6890	Gasket - Plug	1
16		Sleeve	1
‡17	51-5890	Oil Seal Assembly (Incl. Ref. #16)	1
18	70-2900	Bolt	11

†Included in Gasket Set No. 70-6950
‡Included In Oil Seal Kit No. 70-6960



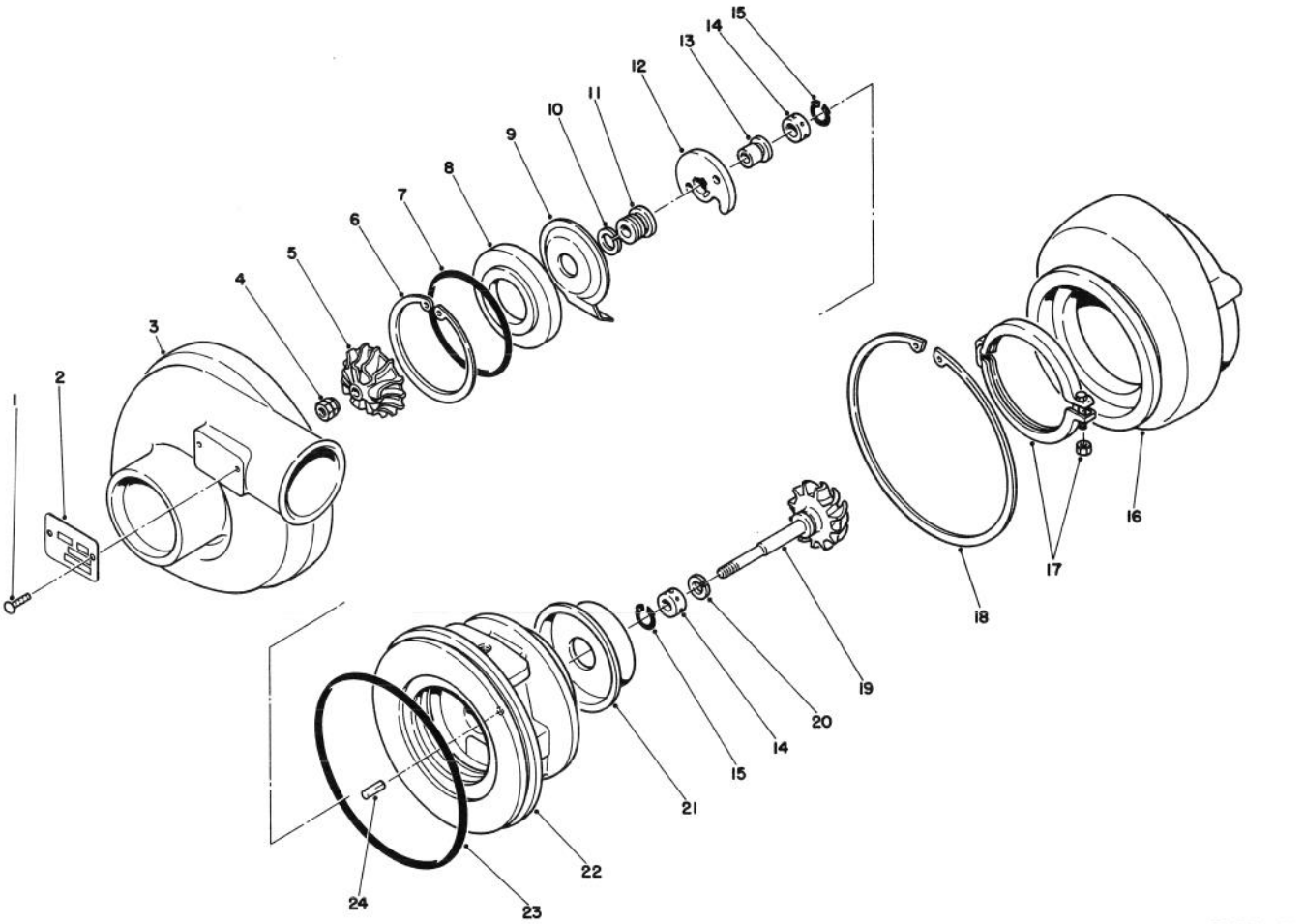
T-0590-90

INTAKE & EXHAUST MANIFOLD ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	51-7250	Washer	4
2	60-7370	Bolt	4
3	70-6090	Elbow	1
†4	70-3130	Gasket	1
5	70-6050	Manifold	1
6	51-7250	Washer	16

Ref. No.	Part No.	Description	No. Used
7	60-7370	Bolt	16
†8	70-6060	Gasket	1
†9	70-5460	Gasket	1
10	70-5470	Manifold	1
†11	70-6250	Gasket	1
12	70-6430	Turbocharger Assembly	1

†Included in Gasket Set No. 70-6950

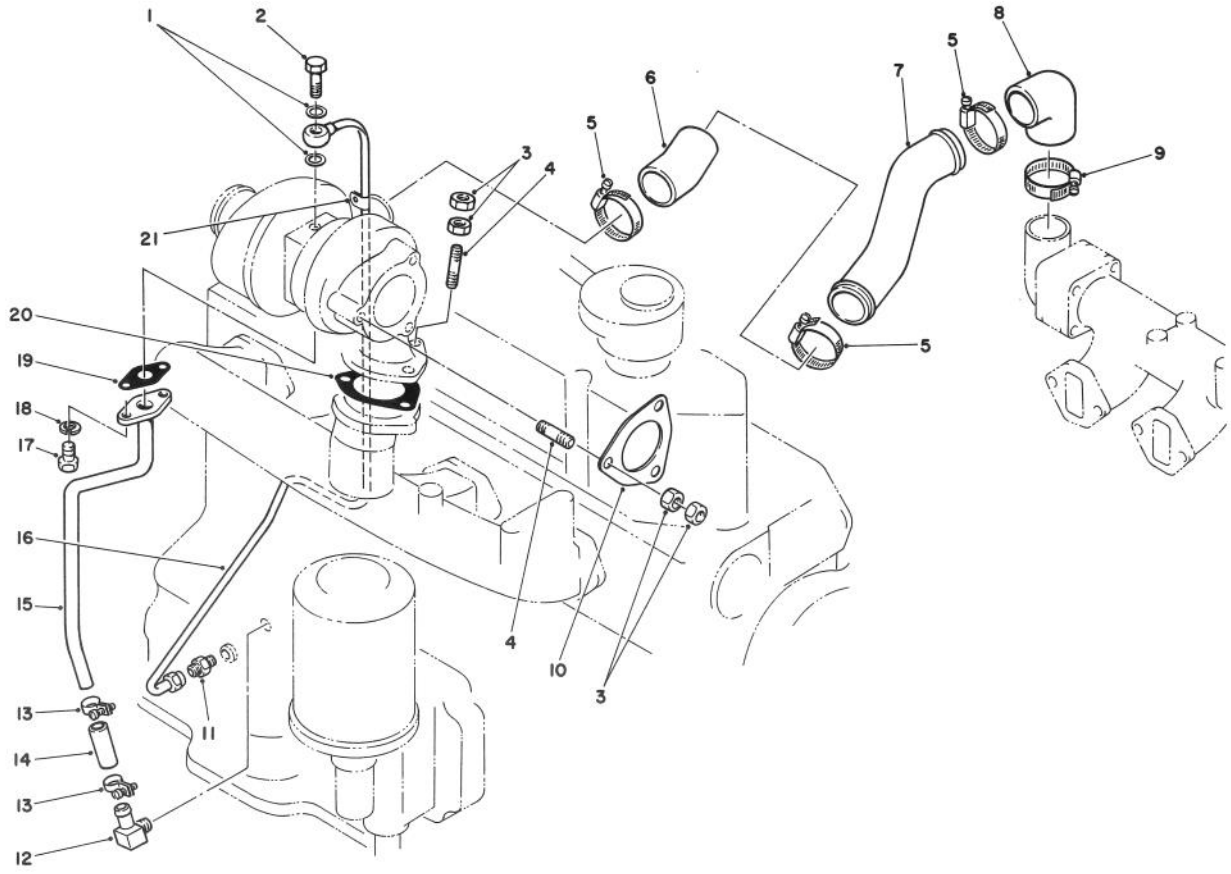


T-0591-90

TURBOCHARGER ASSEMBLY NO. 70-6430

Ref. No.	Part No.	Description	No. Used
1	60-7160	Rivet	2
2	70-6360	Plate	1
3	70-6340	Cover	1
4	70-6330	Nut	1
5	70-6320	Wheel	1
6	70-6300	Ring	1
7	70-6270	O-Ring	1
8	70-6290	Insert	1
9	70-6280	Deflector	1
10	70-6310	Ring	1
11	70-6410	Sleeve	1
12	70-6380	Bearing	1
13	70-6420	Ring	1
14	70-6370	Bearing	2

Ref. No.	Part No.	Description	No. Used
15	70-6390	Ring	2
16	70-6450	Housing	1
17	70-6230	Coupling Assembly	1
18	70-6400	Ring	1
19	70-6470	Shaft & Turbine Wheel Assy.	1
20	70-6350	Ring	1
21	70-6260	Plate	1
22	70-6460	Bearing Housing Assembly (Incl. Ref. #24)	1
23	70-3010	O-Ring	1
24		Pin	1
*	70-6440	Cartridge Assembly (Incl. Ref. #4-15 & 19-24)	1



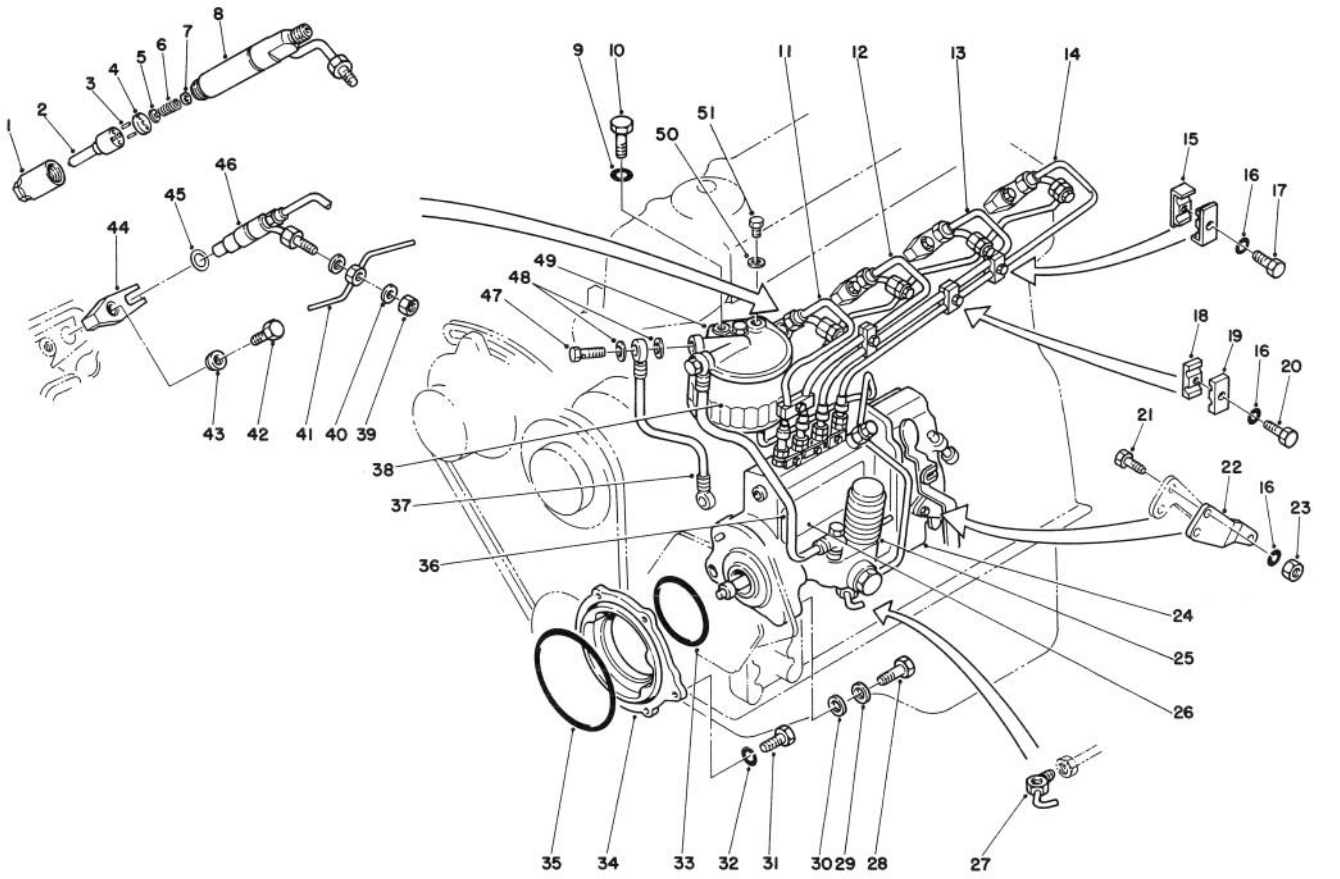
T-0592-90

TURBOCHARGER OIL PIPE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
†1	70-3060	Gasket	2
2	70-4980	Bolt - Cap Hex Hd.	1
3	60-7120	Nut - Hex.	12
4	70-3480	Stud	6
5	70-3430	Clamp - Hose	3
6	70-6080	Hose	1
7	70-6070	Pipe	1
8	70-4950	Hose - 90° Elbow	1
9	70-3440	Clamp - Hose	1
10	70-6240	Gasket	1
11	70-3340	Connector	1

Ref. No.	Part No.	Description	No. Used
12	70-5310	Fitting - 90° Elbow	1
13	70-3090	Clamp - Hose	2
14	70-3040	Hose	1
15	70-5490	Pipe - Oil	1
16	70-5480	Pipe - Oil	1
17	70-2830	Bolt - Cap Hex. Hd.	2
18	51-7400	Washer - Lock	2
19	70-4970	Gasket	1
†20	70-6250	Gasket	1
21	70-4960	Clamp - R	1

†Included in Gasket Set No. 70-6950



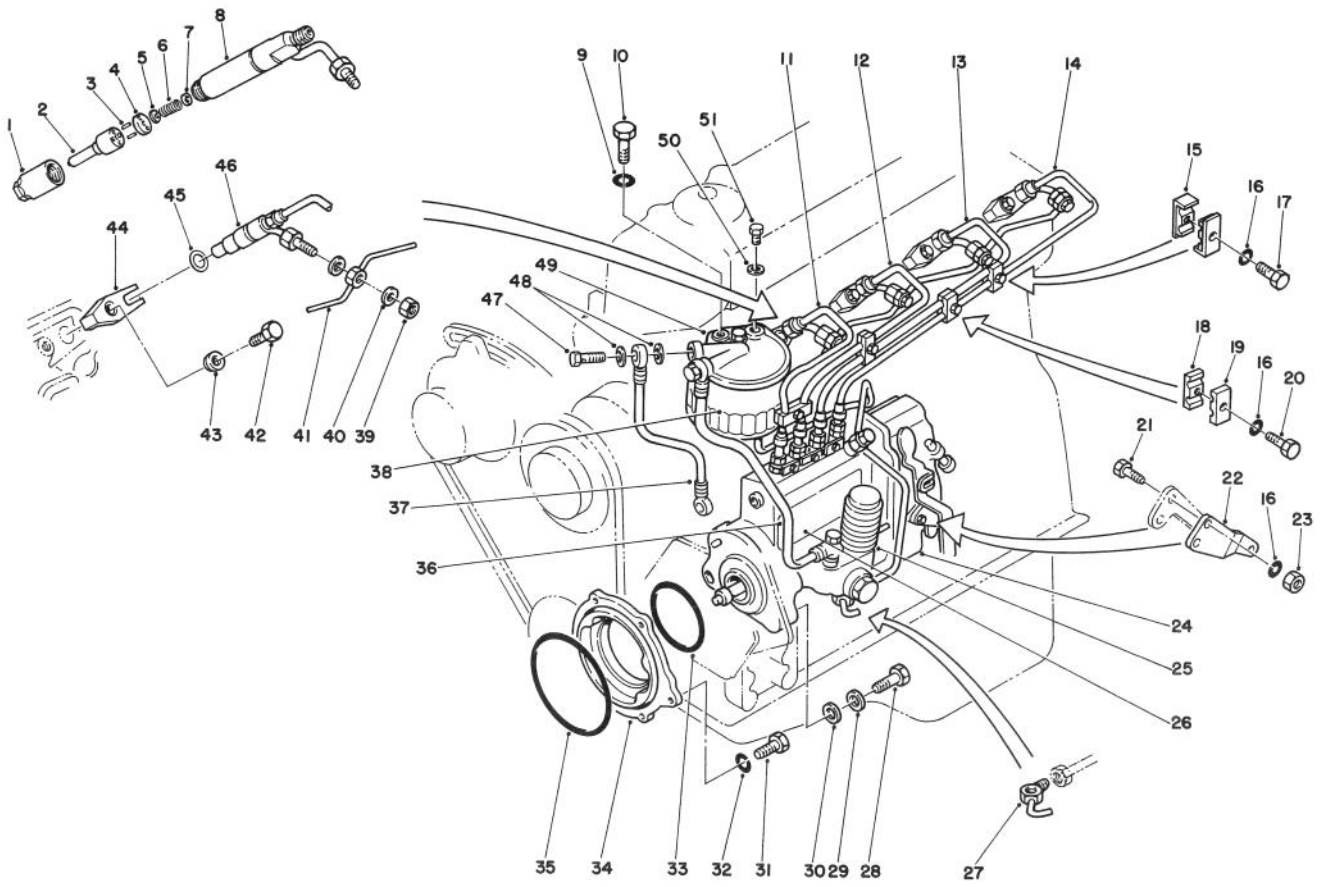
T-0593-90

FUEL SYSTEM ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	70-4840	Nut	4
2	70-6170	Nozzle Tip Assembly	4
3	70-6830	Pin	8
4	70-4930	Packing	4
5	70-4820	Pin	4
6	70-4830	Spring	4
7	70-4860	Washer 1.00 mm	A/R
*	70-4870	Washer 1.05 mm	A/R
*	70-4880	Washer 1.10 mm	A/R
*	70-4850	Washer 2.15 mm	A/R
*	70-4890	Washer 1.275 mm	A/R
*	70-4900	Washer 1.325 mm	A/R
*	70-4910	Washer 1.775 mm	A/R
*	70-4920	Washer 0.95 mm	A/R
8	70-4810	Body Assembly	4
9	51-6390	Washer - Lock	2
10	60-7480	Bolt	2
11	70-6190	Pipe - No. 1	1
12	70-6100	Pipe - No. 2	1
13	70-6200	Pipe - No. 3	1
14	70-6110	Pipe - No. 4	1
15	60-5210	Clamp	2
16	51-7400	Washer - Lock	6
17	70-2840	Bolt	1

Ref. No.	Part No.	Description	No. Used
18	70-3180	Clamp	3
19	70-3190	Clamp	3
20	70-2830	Bolt	3
21	70-2820	Bolt	2
22	70-5770	Lever	1
23	70-2960	Nut	2
24		Governor	1
25	70-5700	Fuel Feed Pump	1
26	70-6180	Injection Pump (Incl. Ref. #24 & 25)	1
27	70-5060	Joint	1
28	51-4910	Bolt	4
29	51-6390	Washer	4
30	70-2990	Washer	4
31	60-7280	Bolt	2
32	51-7250	Washer - Lock	2
†33	70-6130	O-Ring	1
34	70-6210	Flange	1
†35	70-5070	O-Ring	1
36	70-3140	Pipe	1
37	70-3150	Pipe	1
38	70-5730	Filter Element Assembly	1
39	70-2980	Nut	4
†40	70-3460	Washer	8

*Not Illustrated
†Included in Gasket Set No. 70-6950



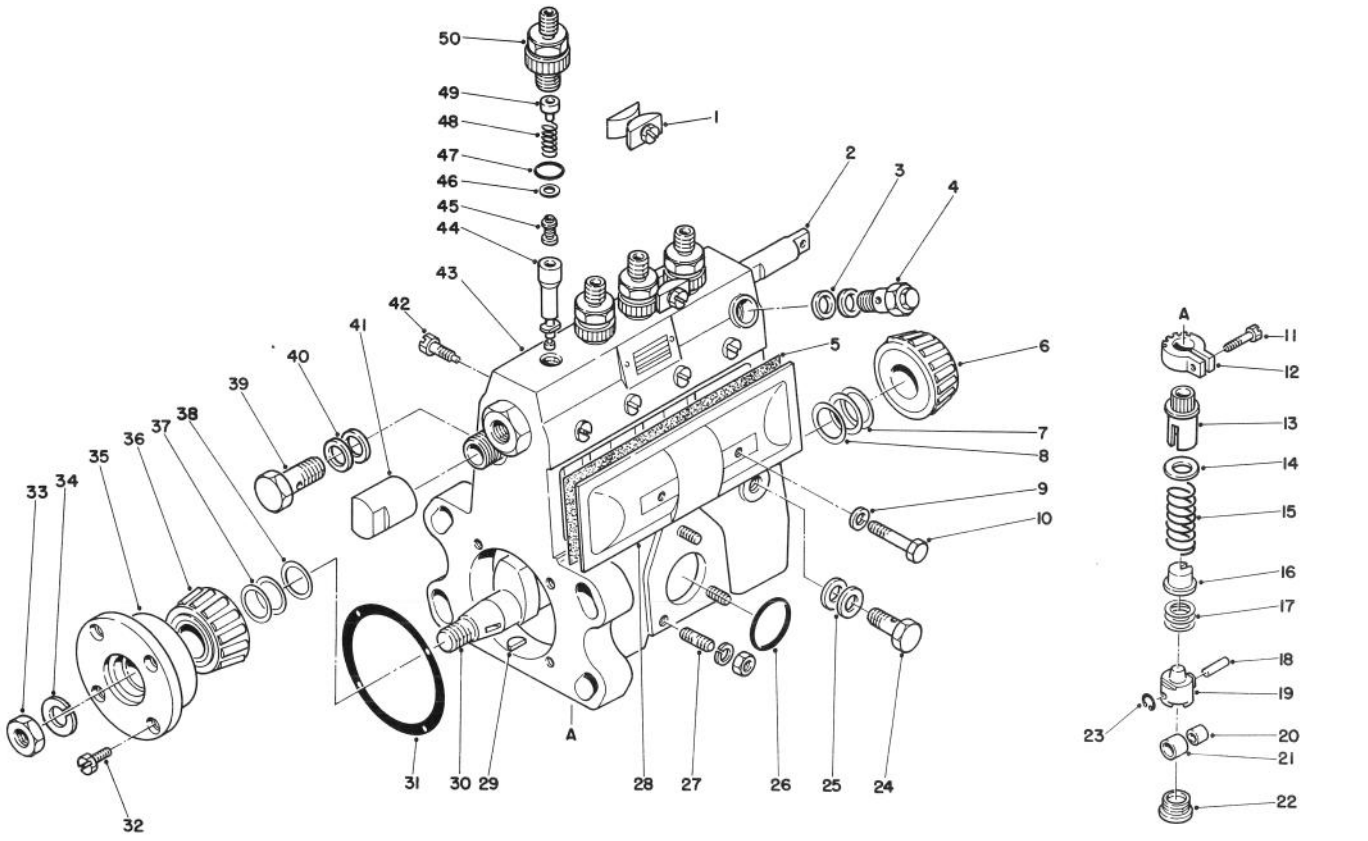
T-0593-90

FUEL SYSTEM ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
41	70-6120	Pipe	1
42	70-2850	Bolt	4
43	70-6140	Washer	4
44	70-6220	Gland	4
†45	70-6150	Gasket	4
46	70-6160	Nozzle Assembly (Incl. Ref. #1-8)	4

Ref. No.	Part No.	Description	No. Used
47	70-3250	Bolt	2
48	70-3210	Packing	4
49	70-5720	Bracket	1
50	70-3200	Washer	1
51	70-3240	Plug	1
*	70-5710	Fuel Filter Assembly (Incl. Ref. #38 & 47-51)	1

*Not Illustrated
†Included in Gasket Set No. 70-6950



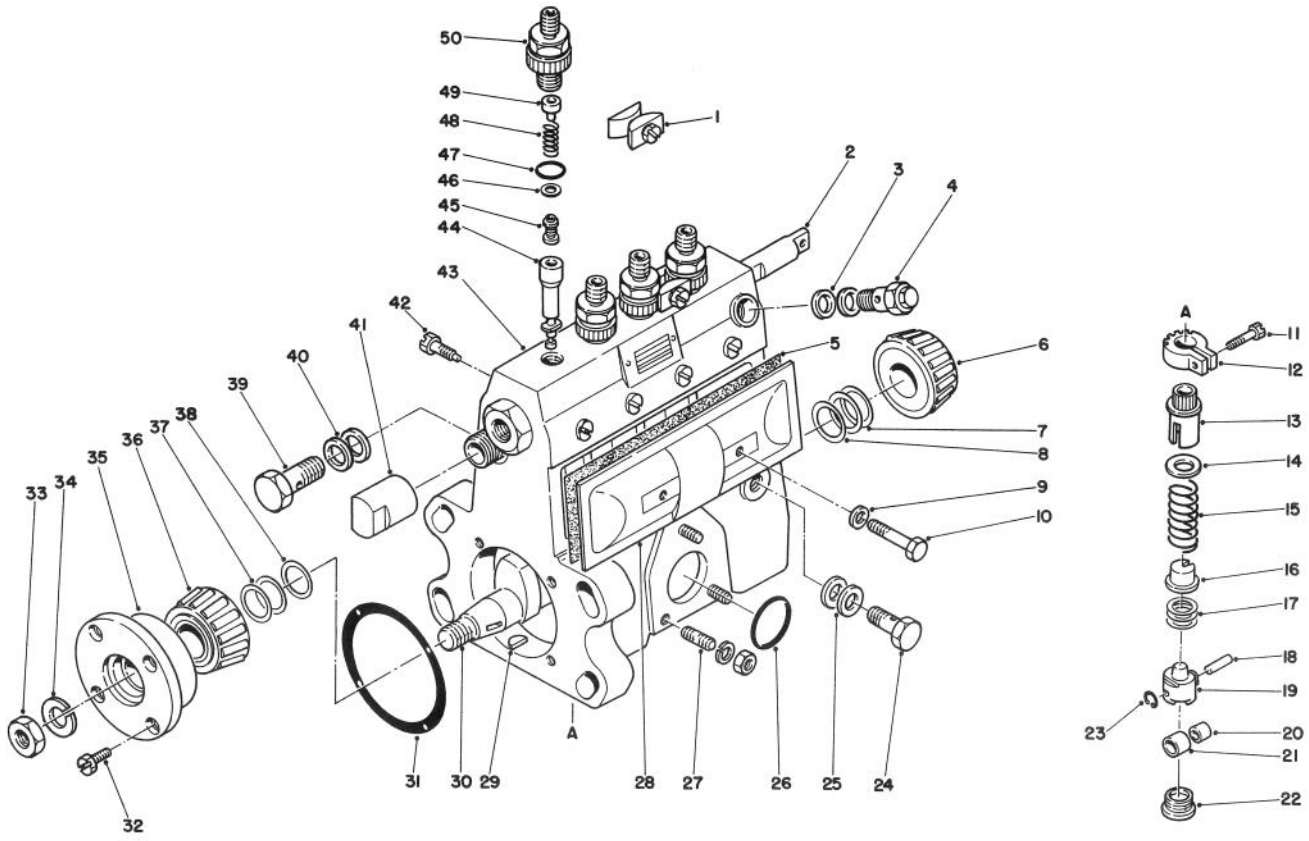
T-0594-90

FUEL INJECTION PUMP ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	70-3880	Plate	2
2	70-3840	Rack	1
3	70-3860	Washer	2
4	70-3960	Valve	1
5	70-3930	Gasket	1
6	70-6850	Bearing	2
7	70-3710	Plate - 0.10	A/R
*	70-3720	Plate - 0.12	A/R
*	70-3730	Plate - 0.14	A/R
*	70-3740	Plate - 0.16	A/R
*	70-3750	Plate - 0.18	A/R
*	70-3760	Plate - 0.50	A/R
*	70-3770	Plate - 0.30	A/R
8	70-3690	Ring	1
9	70-3900	Packing	2
10	70-3950	Screw	2
11	70-3570	Screw	4
12	70-3560	Pinion	4
13	70-3580	Sleeve	4
14	70-3590	Seat	4
15	70-3600	Spring	4
16	70-3610	Seat	4

Ref. No.	Part No.	Description	No. Used
17	70-3970	Plate - 0.6	A/R
*	70-3980	Plate - 0.7	A/R
*	70-3990	Plate - 0.8	A/R
*	70-4000	Plate - 0.9	A/R
*	70-4010	Plate - 1.0	A/R
*	70-4020	Plate - 1.1	A/R
*	70-4030	Plate - 1.2	A/R
*	70-4040	Plate - 1.3	A/R
*	70-4050	Plate - 1.4	A/R
*	70-4060	Plate - 0.1	A/R
*	70-4070	Plate - 0.2	A/R
*	70-4080	Plate - 0.3	A/R
*	70-4090	Plate - 0.4	A/R
*	70-4100	Plate - 0.5	A/R
*	70-4110	Plate - 0.15	A/R
18	70-3640	Pin	4
19	70-3620	Body	4
20	70-3650	Bushing	4
21	70-3660	Roller	4
22	70-3670	Plug	4
23	70-6800	E-Ring	4
24	70-6930	Screw	1

*Not Illustrated



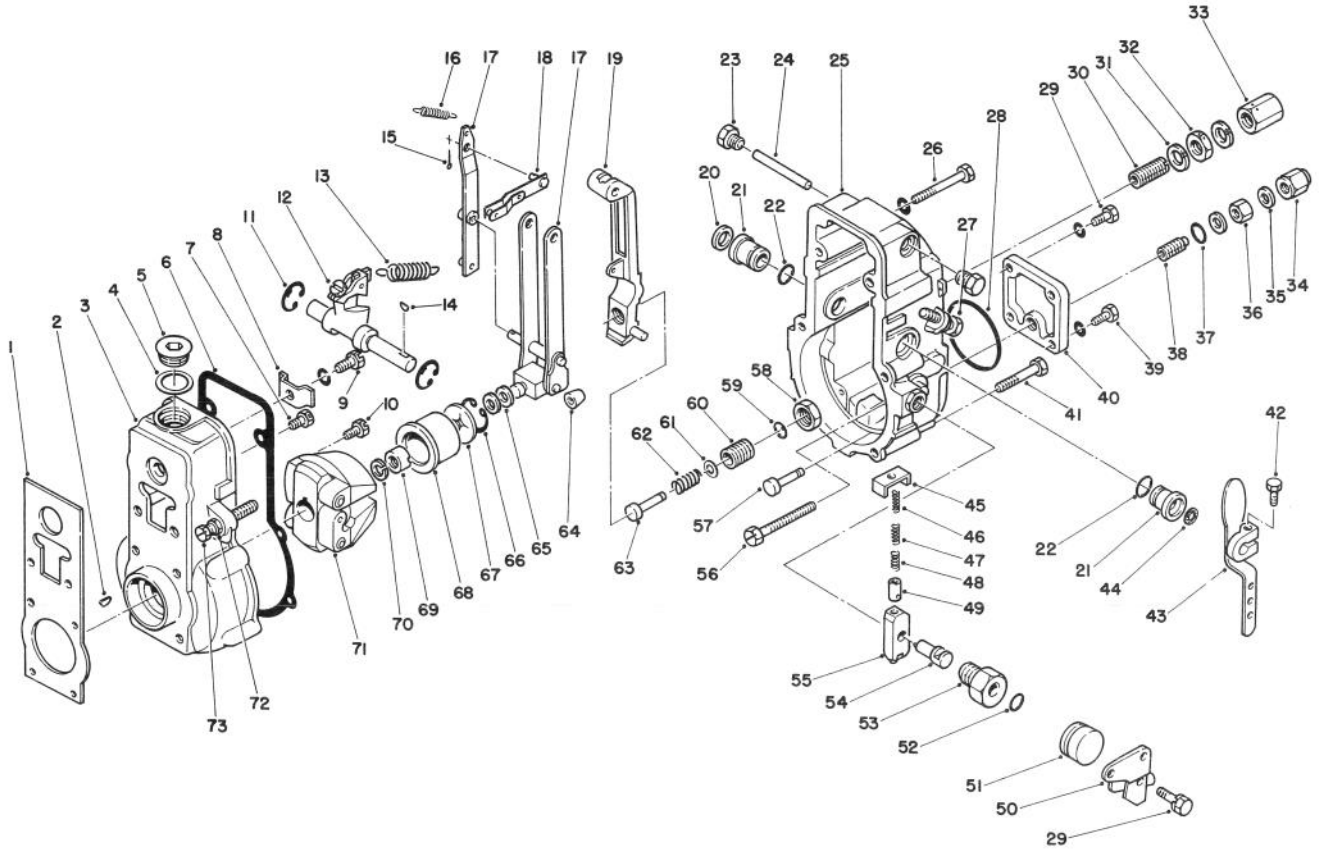
T-0594-90

FUEL INJECTION PUMP ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
25	70-3910	Washer	2
26	70-6900	O-Ring	1
27	70-6720	Stud	3
28	70-3940	Plate	2
29	70-6880	Key	1
30	70-3680	Camshaft	1
31	70-3830	Gasket	1
32	70-6540	Bolt	4
33	70-6780	Nut	1
34	70-6680	Washer	1
35	70-3820	Cover	1
36	70-6840	Bearing	1
37	70-3780	Plate - 0.1	A/R
*	70-3790	Plate - 0.15	A/R
*	70-3800	Plate - 0.3	A/R
*	70-3810	Plate - 0.5	A/R
38	70-3700	Ring	1

Ref. No.	Part No.	Description	No. Used
39	70-6940	Screw	1
†40	70-3870	Washer	2
41	70-3490	Cover	1
42	70-3850	Screw	1
43	70-4940	Housing Assembly (Incl. Ref. #27)	1
44	70-3550	Element Assembly	4
45	70-3540	Valve Assembly	4
46	70-3530	Gasket	4
47	70-6910	O-Ring	4
48	70-3520	Spring	4
49	70-3510	Stopper	4
50	70-3500	Holder	4
*	70-3920	Cover Assembly (Incl. Ref. #5, 9-10 & 28)	1
*	70-3630	Tappet Assembly (Incl. Ref. #18-21 & 23)	1

*Not Illustrated
†Included in Gasket Set No. 70-6950

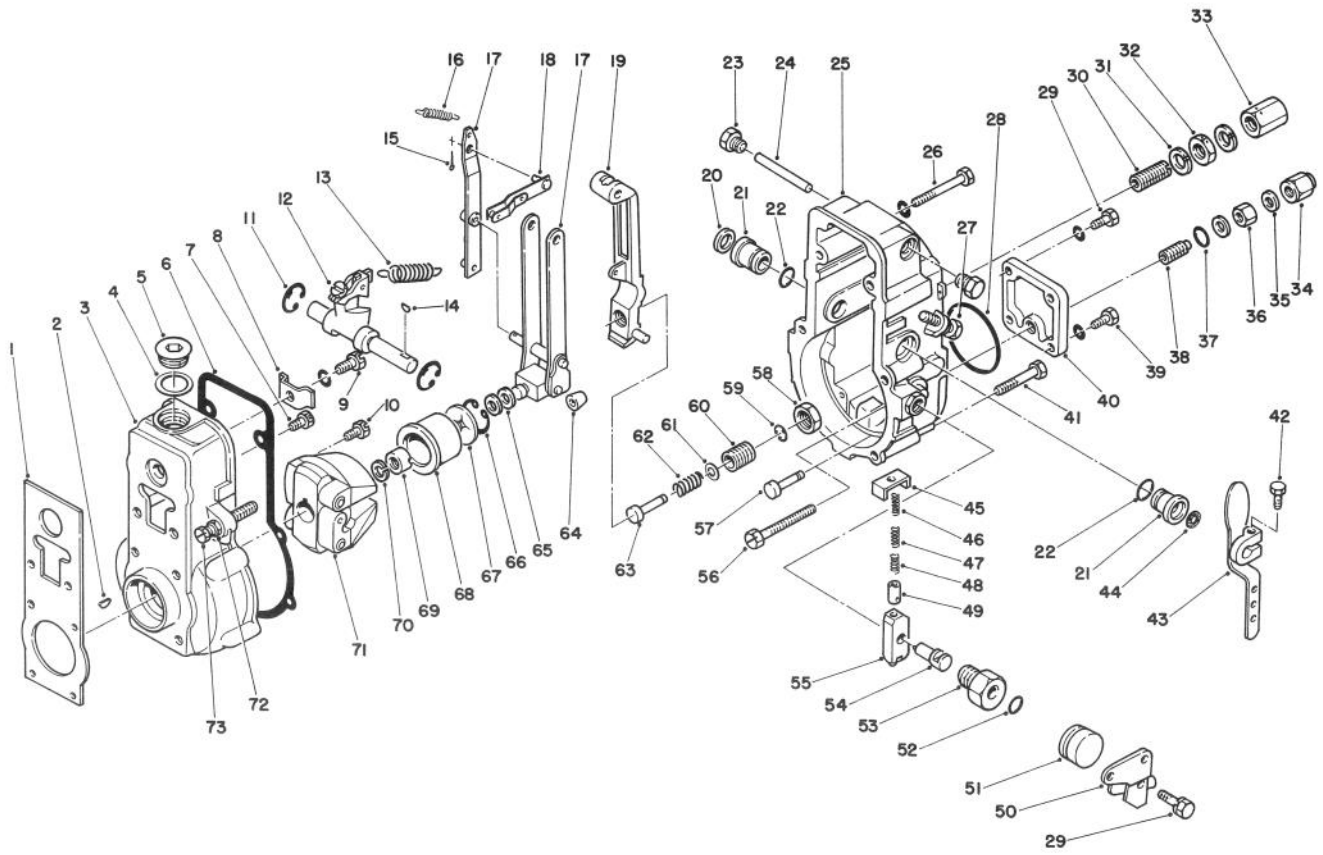


T-0595-90

GOVERNOR ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	70-4160	Gasket	1
2	70-6870	Key	1
3	70-4130	Housing	1
4	70-6710	Washer	1
5	70-4590	Plug	1
6	70-4150	Gasket	1
7	70-6530	Bolt	5
8	70-4210	Plate	1
9	70-6550	Bolt	1
10	70-6520	Bolt	1
11	70-6810	E-Ring	2
12	70-4220	Swiveling Lever Assembly	1
13	70-4370	Spring	1
14	70-6860	Key	1
15	70-6480	Pin	1
16	70-4380	Spring	1
17	70-4320	Lever Assembly	1
18	70-4340	Shackle Assembly	1
19	70-4250	Tension Lever Assembly	1
20	70-4580	Cap	1
21	70-4230	Bushing	2
22	70-6510	O-Ring	2
23	70-4360	Plug	2
24	70-4350	Shaft	1
25	70-4400	Cover	1
26	70-6740	Bolt	2

Ref. No.	Part No.	Description	No. Used
27	70-4140	Stopper	1
28	70-6790	Packing	1
29	70-6520	Bolt & Washer	3
30	70-4120	Capsule	1
31	70-3890	Washer	2
32	70-4310	Nut	1
33	70-4440	Nut	1
34	70-4450	Nut	1
35	70-6690	Washer	2
36	70-6770	Nut	1
37	70-6500	O-Ring	1
38	70-4330	Bushing	1
39	70-6760	Bolt & Washer	2
40	70-4550	Plate	1
41	70-6750	Bolt	4
42	70-6730	Bolt	1
43	70-4560	Adjusting Lever Assembly	1
44	70-6920	Seal	1
45	70-4460	Plate	1
46	70-4500	Spring	1
47	70-4520	Spring	1
48	70-4510	Spring	1
49	70-4490	Cup	1
50	70-4570	Stop Lever Assembly	1
51	70-4530	Cover	1
52	70-6890	O-Ring	1



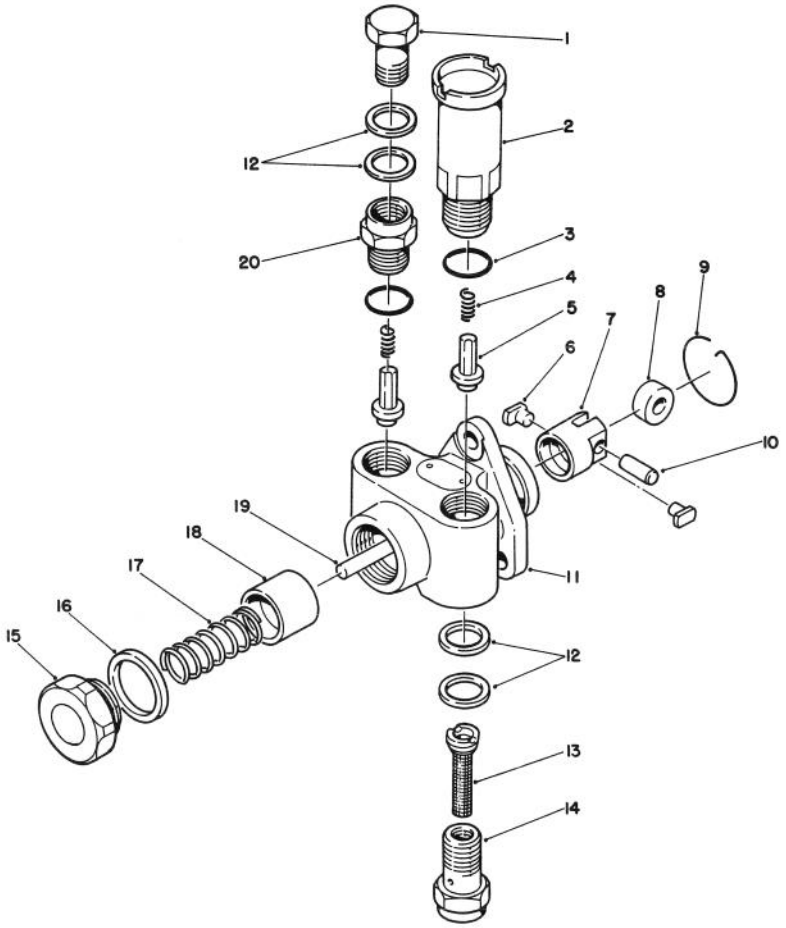
T-0595-90

GOVERNOR ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
53	70-4420	Bushing	1
54	70-4480	Shaft	1
55	70-4470	Lever	1
56	70-4390	Screw	1
57	70-4410	Pin	1
58	70-4300	Nut	1
59	70-4240	E-Ring	1
60	70-4270	Screw	1
61	70-6570	Washer - 0.1	A/R
*	70-6600	Washer - 0.2	A/R
*	70-6580	Washer - 0.25	A/R
*	70-6590	Washer - 0.5	A/R
*	70-6660	Washer - 1.0	A/R
62	70-4280	Spring	1
63	70-4290	Adapter	1
64	70-4540	Slider	1

Ref. No.	Part No.	Description	No. Used
65	70-6610	Washer - 0.2	A/R
*	70-6620	Washer - 0.3	A/R
*	70-6630	Washer - 0.4	A/R
*	70-6640	Washer - 0.1	A/R
*	70-6650	Washer - 1.0	A/R
66	70-6490	Ring	1
67	70-4200	Plate	1
68	70-4190	Sleeve	1
69	70-4180	Nut	1
70	70-6670	Washer	1
71	70-4170	Flyweight Assembly	1
72	70-6560	Nut	2
73	70-4430	Screw	1
*	70-4260	Adapter Assembly (Incl. Ref. #59-63)	1

*Not Illustrated



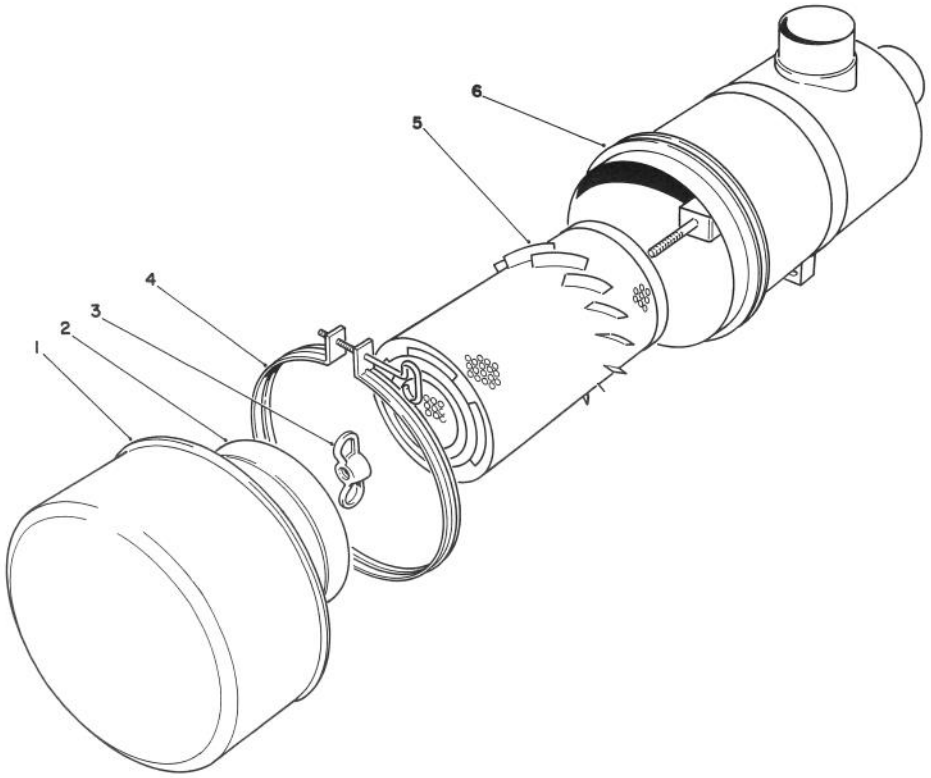
T-0596-90

FUEL FEED PUMP ASSEMBLY NO. 70-5700

Ref. No.	Part No.	Description	No. Used
1	70-6940	Screw	1
2	70-4650	Pump Assembly	1
3	70-4630	Gasket	2
4	70-4620	Spring	2
5	70-4610	Valve	2
6	70-4760	Block	2
7	70-4730	Tappet	1
8	70-4740	Roller	1
9	70-6820	Ring	1
10	70-4750	Pin	1
11	70-4600	Housing Assembly	1
†12	70-3870	Washer	4
13	70-4790	Filter	1

Ref. No.	Part No.	Description	No. Used
14	70-4800	Screw	1
15	70-4780	Plug	1
16	70-6700	Washer	1
17	70-4770	Spring	1
18	70-4720	Piston	1
19	70-4660	Rod, Blue Small Dia.	A/R
*	70-4670	Rod, Red Small Dia.	A/R
*	70-4680	Rod, Yellow Small Dia.	A/R
*	70-4690	Rod, Green Small Dia.	A/R
*	70-4700	Rod, White Small Dia.	A/R
*	70-4710	Rod, Brown Big Dia.	A/R
20	70-4640	Support	1

*Not Illustrated
†Included in Gasket Set No. 70-6950

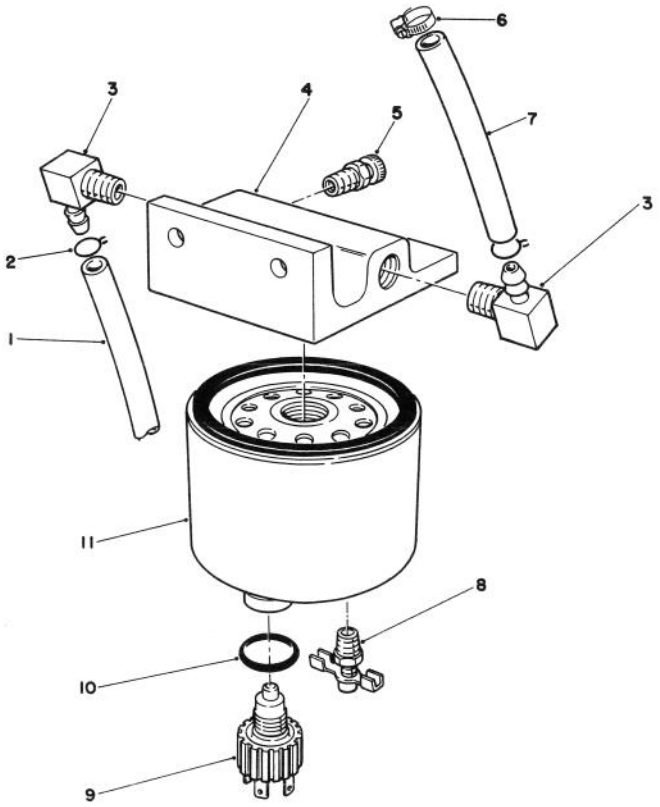


T-0387-90

AIR CLEANER ASSEMBLY NO. 69-1890

Ref. No.	Part No.	Description	No. Used
1	69-1930	Cup Assembly	1
2	69-1920	Baffle	1
3	27-7120	Nut	1
4	69-1910	Clamp Assembly	1
5	69-1900	Element Assembly	1
†6		Housing	1
*	27-7220	Detergent - Element	1

*Not Illustrated
†Not Serviceable

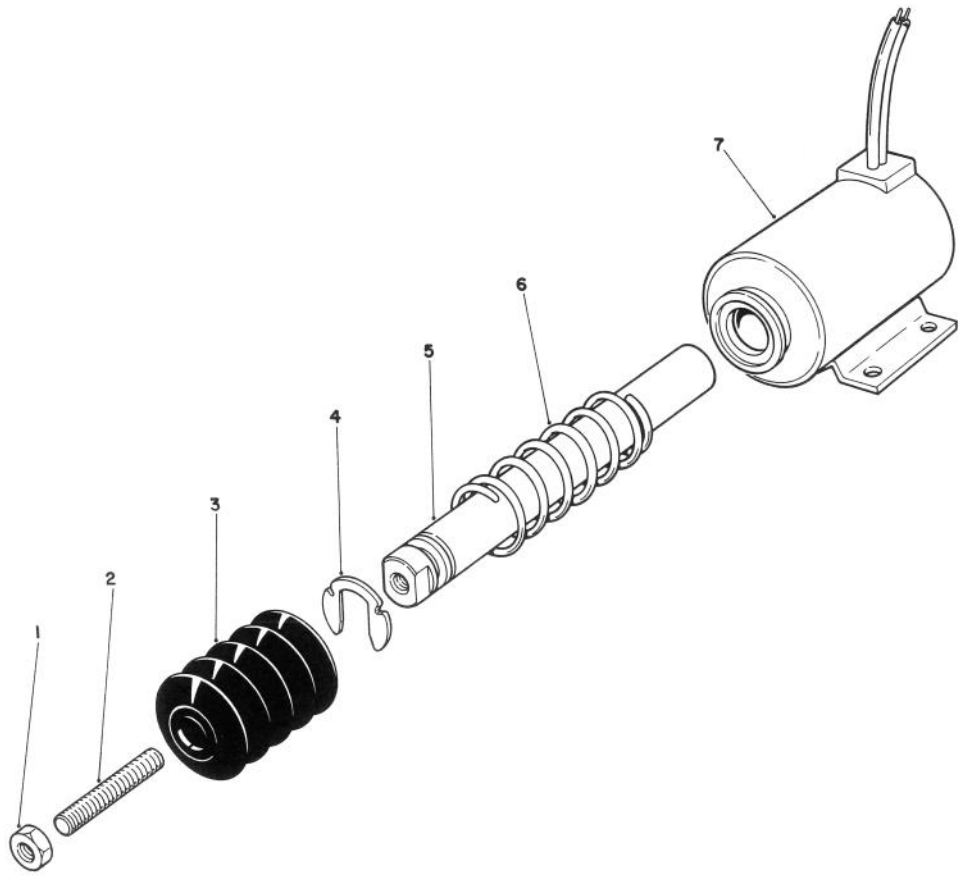


T-0376-90

FUEL FILTER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	37-9560	Hose - Fuel	1
2	2412-6	Clamp - Hose	2
3	353-781	Fitting - Fuel Elbow	2
4	63-8280	Head - Fuel Filter (Incl. Ref. #5)	1
5	63-8290	Vent - Air	1
6	2412-108	Clamp - Hose	1
7	71-2690	Hose - Fuel	1
8	63-8310	Valve - Drain	1
9	69-1760	Sensor - Water	1
10	237-154	Seal - O-Ring	1
11	69-1770	Element - Spin-On (Incl. Ref. #6)	1
*	69-1750	Fuel Filter Assembly (Incl. Ref. #4, 5 & 8-11)	1

*Not Illustrated

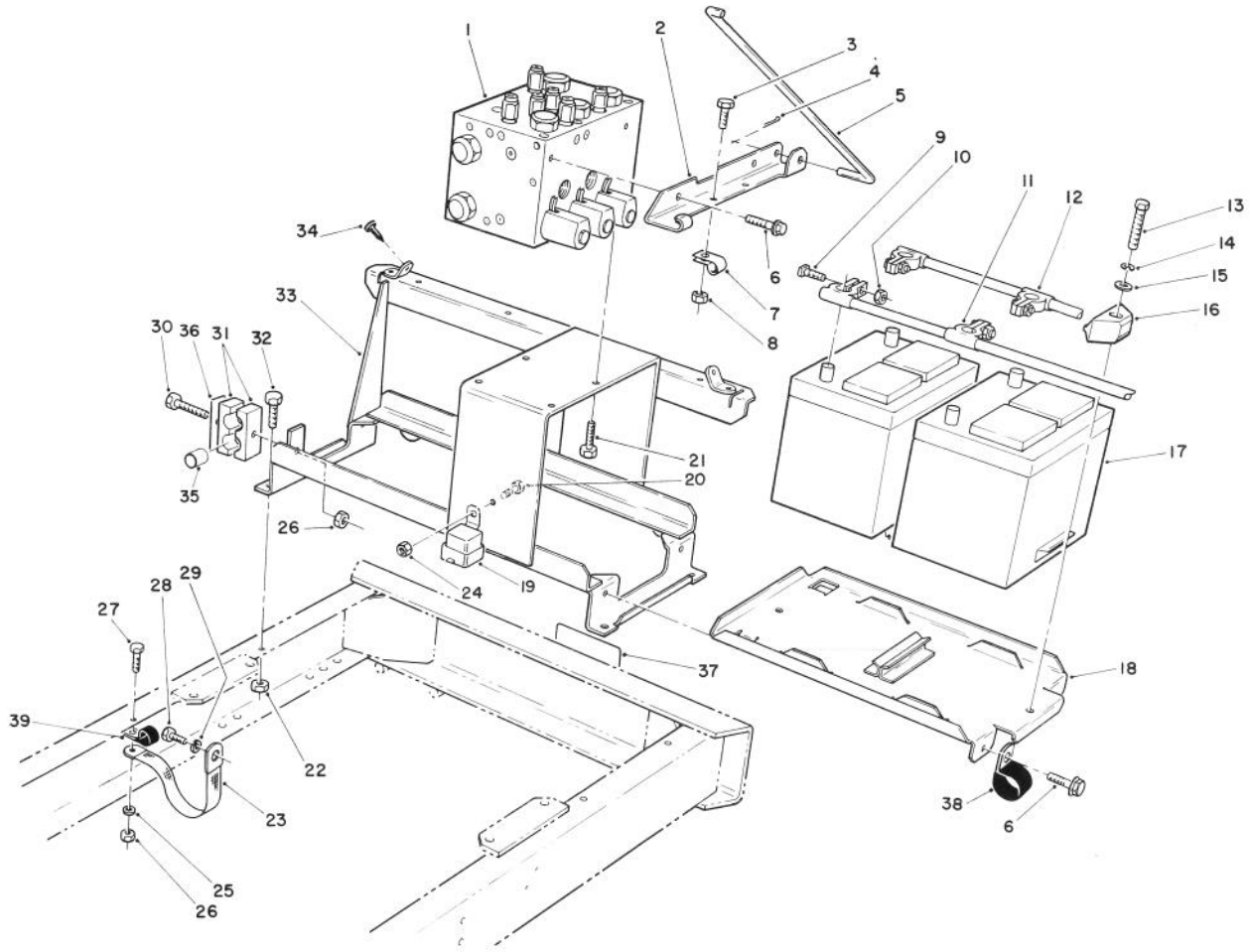


T-0375-90

SOLENOID VALVE NO. 69–4330

Ref. No.	Part No.	Description	No. Used
1	3220–1	Nut – Jam	1
2	69–4370	Stud – Threaded	1
3	69–4360	Boot – Rubber	1
4	69–4350	Ring – Retaining	1
5		Plunger – Solenoid	1
6	69–4340	Spring – Return	1
7		Body – Solenoid	1
*	69–4330	Solenoid Valve Assembly (Incl. Ref. #1–7)	1

*Not Illustrated

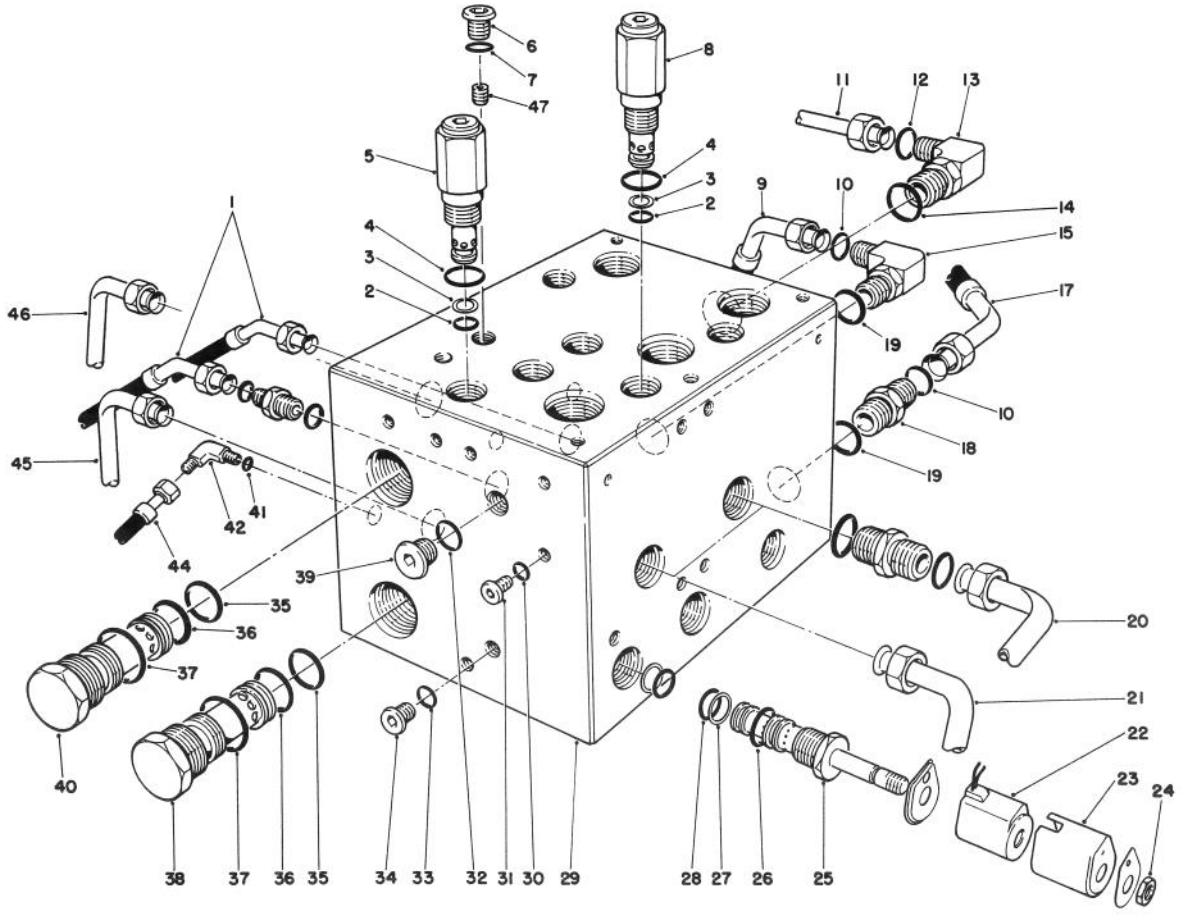


BATTERY FRAME ASSEMBLY (On serial #00219 and up)

Ref. No.	Part No.	Description	No. Used
1	69-4150	PTO Manifold Assembly	1
2	69-9350	Bracket - Hood Prop Rod	1
3	321-3	Screw - Cap Hex. Hd.	3
4	3272-6	Pin - Cotter	1
5	69-9120	Rod - Hood Prop	1
6	3234-17	Screw - Hex. Flange Hd.	4
7	2412-73	Clamp - R	3
8	32149-2	Nut - Keps	3
†9		Bolt - Clamp	4
†10		Nut - Clamp	4
11	80-0130	Cable - Negative	1
12	80-0120	Cable - Positive	1
13	323-8	Screw - Cap Hex. Hd.	2
14	3253-21	Washer - Lock	2
15	3256-24	Washer - Flat	2
16	66-2490	Hold-Down - Battery	2
‡17		Battery (Type 24, LTV)	2
18	80-0160	Tray - Battery	1
19	63-7590	Relay	1
20	3290-321	Screw - Cap Hex. Hd.	1

Ref. No.	Part No.	Description	No. Used
21	323-4	Screw - Cap Hex. Hd.	4
22	32152-2	Nut - Lock	4
23	18-2770	Strap - Ground	1
24	3296-2	Nut - Flange Lock	1
25	3254-2	Washer - Lock	1
26	32152-1	Nut - Lock	2
27	322-5	Screw - Cap Hex Hd.	1
28	69-0060	Screw - Cap Hex. Hd.	1
29	48-8070	Washer - Lock	1
30	322-11	Screw - Cap Hex. Hd.	1
31	56-7974	Clamp - Hydraulic Lines	2
32	323-6	Screw - Cap Hex. Hd.	4
33	69-8290	Frame - Battery	1
34	237-37	Bumper - Rubber	4
35	23-7250	Spacer	1
36	69-9761	Plate - Clamp	1
37	72-4080	Decal - Danger	1
38	2412-93	Clamp	2
39	2412-39	Clamp	1

†Not serviceable separately.
‡Obtain Locally



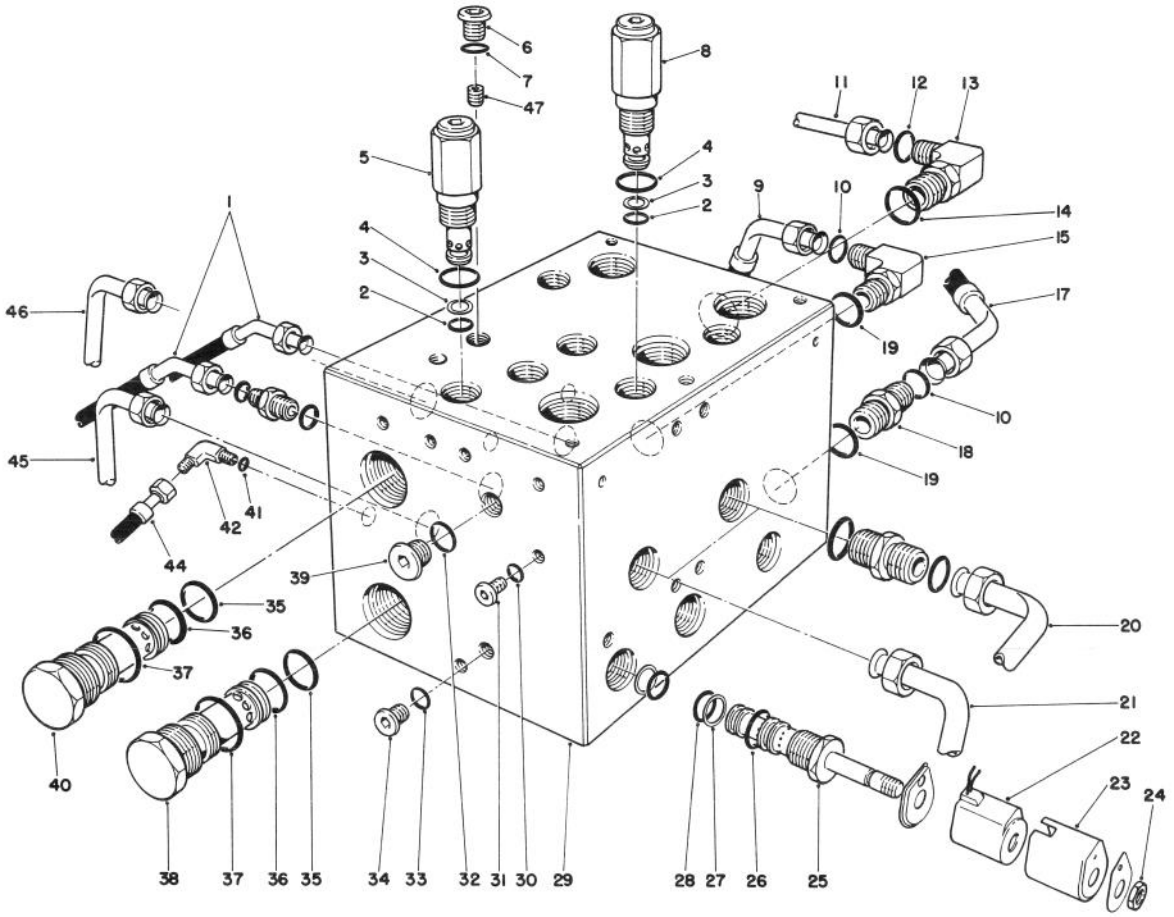
T-0364A-90

PTO MANIFOLD ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	69-5590	Hose - Hydraulic	2
†2		Seal - O-Ring	6
†3		Seal - Washer	6
†4		Seal - O-Ring	6
5	69-4170	Valve - Cartridge (600 lbs) (Incl. Ref. #2-4)	3
6	353-989	Plug (Incl. Ref. #7)	1
7	237-42	Seal - O-Ring	1
8	69-4180	Valve - Cartridge (3000 lbs) (Incl. Ref. #2-4)	3
9	69-5600	Hose - Hydraulic	1
10	237-58	Seal - O-Ring	8
11	69-6160	Tube - Hydraulic	1
12	340-65	Seal - O-Ring	2
13	340-129	Fitting - Hydraulic Elbow (Incl. Ref. #12 & 14)	1
14	237-146	Seal - O-Ring	1
15	340-142	Fitting - Hydraulic Elbow (Incl. Ref. #10 & 16)	1
17	69-5610	Hose - Hydraulic	1
18	340-9	Fitting - Hydraulic Straight (Incl. Ref. #10 & 19)	7
19	237-81	Seal - O-Ring	8
20	69-6180	Tube - Hydraulic	1
21	69-6170	Tube - Hydraulic	1
22	69-4290	Coil - Solenoid Valve (Incl. Ref. #24)	3

Ref. No.	Part No.	Description	No. Used
23	69-4210	Solenoid Valve Assembly (Incl. Ref. #22, 24-28)	3
24	69-4300	Nut - Jam	3
†25		Spool - Solenoid Valve	3
†26		Seal - O-Ring	3
†27		Seal - Washer	6
†28		Seal - O-Ring	6
29	69-4160	Manifold - PTO	1
30	237-156	Seal - O-Ring	30
31	353-991	Plug (Incl. Ref. #30)	30
32	237-79	Seal - O-Ring	4
33	237-78	Seal - O-Ring	1
34	353-990	Plug (Incl. Ref. #33)	1
†35		Seal - O-Ring	6
†36		Seal - O-Ring	6
†37		Seal - O-Ring	6
38	69-4200	Valve - Cartridge (75 lbs) (Incl. Ref. #35-37)	3
39	353-988	Plug (Incl. Ref. #32)	4
40	69-4190	Valve - Cartridge (20 lbs) (Incl. Ref. #35-37)	3
41	237-78	Seal - O-Ring	2
42	353-431	Fitting - Hydraulic 45° Elbow (Incl. Ref. #41 & 43)	2
44	69-5662	Hose - Diagnostic	2
45	69-6140	Tube - Hydraulic	1
46	69-6150	Tube - Hydraulic	1

†Not serviceable separately.

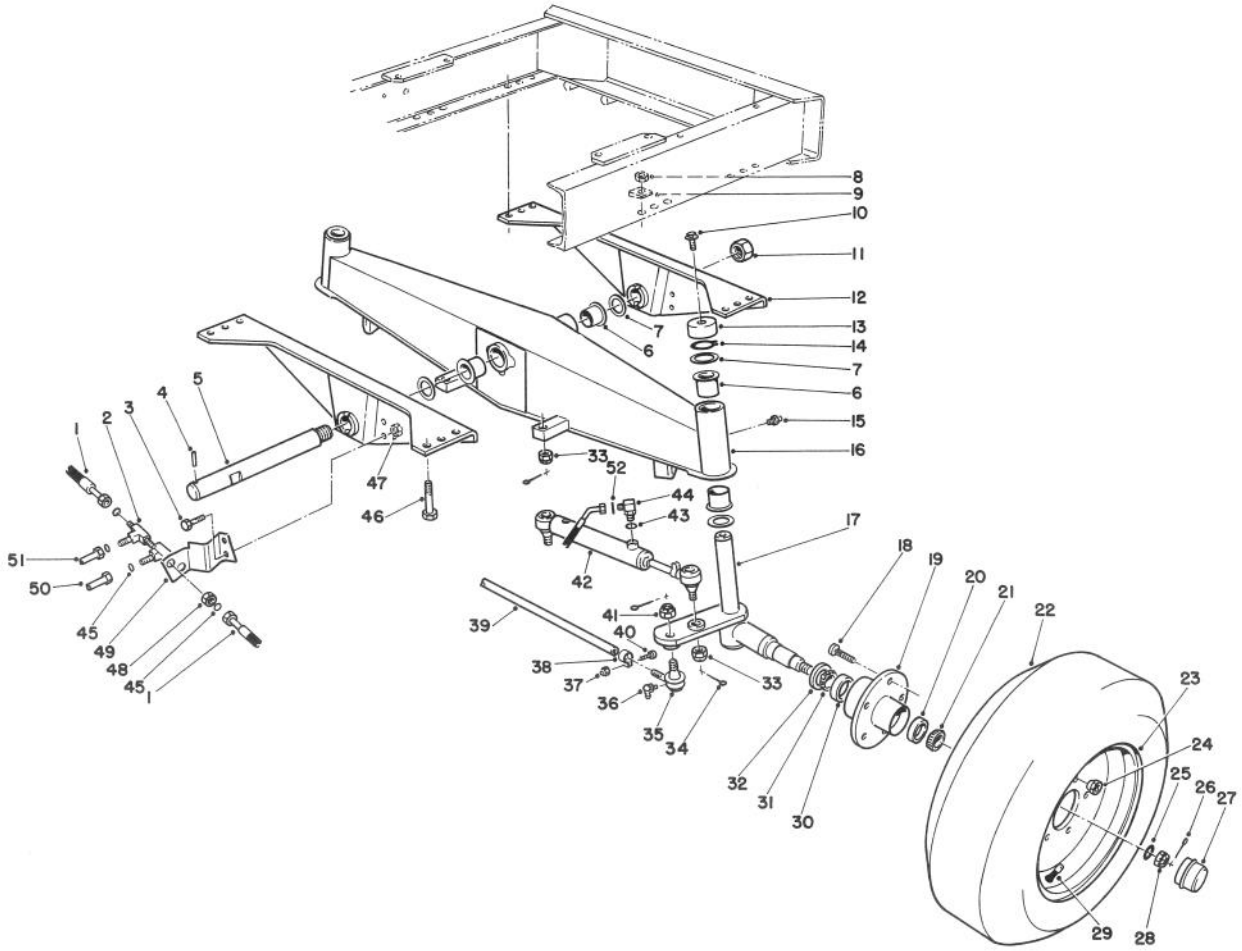


T-0364A-90

PTO MANIFOLD ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
47	69-4220	Plug - Orifice	1
*	69-4230	Cartridge Valve Seal Kit (Incl. Ref. #2-4)	6
*	69-4270	Cartridge Valve Seal Kit (Incl. Ref. #35-37)	6
*	69-4260	Solenoid Valve Seal Kit (Incl. Ref. #26-28)	3
*	69-4150	PTO Manifold Assembly (Incl. Ref. #2-8, 22-40 & 47)	1

*Not Illustrated



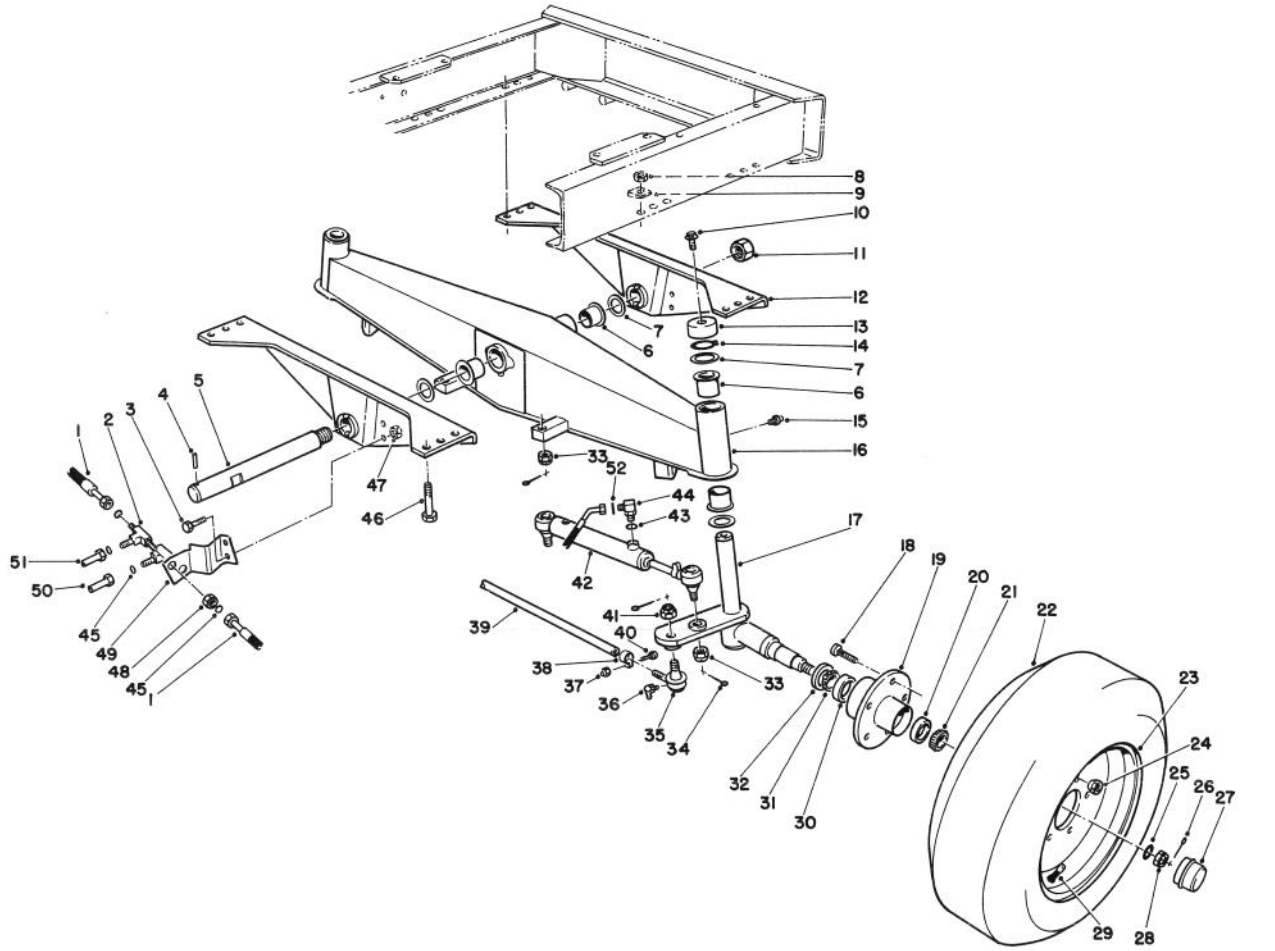
REAR AXLE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	69-5510	Hose - Hydraulic	4
2	340-68	Fitting - Hydraulic Bulkhead Tee (Incl. Ref. #45)	2
3	323-6	Screw - Cap Hex. Hd.	2
4	32121-110	Pin - Roll	1
5	71-2590	Shaft - Pivot	1
6	69-6470	Bushing - Flange	6
7	256-304	Washer - Thrust	6
8	32128-23	Nut - Lock	12
9	3290-216	Washer - Bevel	12
10	3234-12	Screw - Hex. Flange Hd.	2
11	3296-68	Nut - Lock	1
12	69-7960	Support - Axle	2
13	69-8890	Cap - Spindle	2
14	32151-10	Ring - Retaining	2
15	302-5	Fitting - Grease	3
16	69-7420	Axle - Rear (Incl. Ref. #6 & 15)	1
17	69-7370	Spindle - Wheel L.H.	1
*	69-7360	Spindle - Wheel R.H.	1
18	69-2990	Screw - Drive	10
19	69-2960	Hub - Rear Wheel (Incl. Ref. #18, 20 & 30)	2
20	254-72	Cup - Bearing Outer	2
21	254-92	Cone - Bearing Outer	2
22	69-9880	Tire	2
23	217-116	Rim	2

Ref. No.	Part No.	Description	No. Used
24	23-7270	Nut - Lug	10
25	49-0010	Washer	2
26	3272-13	Pin - Cotter	2
27	69-2970	Cap - Hub	2
28	32136-5	Nut - Castle	2
29	232-27	Stem - Valve	2
30	254-107	Cup - Bearing Inner	2
31	254-106	Cone - Bearing Inner	2
32	69-2980	Seal - Inner	2
33	32136-13	Nut - Castle	4
34	3272-12	Pin - Cotter	6
35	2116-4	Joint - Ball R.H.	1
*	2116-3	Joint - Ball L.H.	1
36	302-33	Fitting - Grease	2
†37		Nut - Lock	2
38	2412-7	Clamp Assembly (Incl. Ref. #37 & 40)	2
39	3-3710	Tie Rod Assembly (Incl. Ref. #35-41)	1
†40		Screw - Cap Hex. Hd.	2
41	32136-2	Nut - Castle	2
42	69-1960	Cylinder - Steering	2
43	237-78	Seal - O-Ring	4
44	340-132	Fitting - Hydraulic Elbow (Incl. Ref. #43 & 52)	4
45	237-22	Seal - O-Ring	6
46	325-6	Screw - Cap Hex. Hd.	12

*Not Illustrated

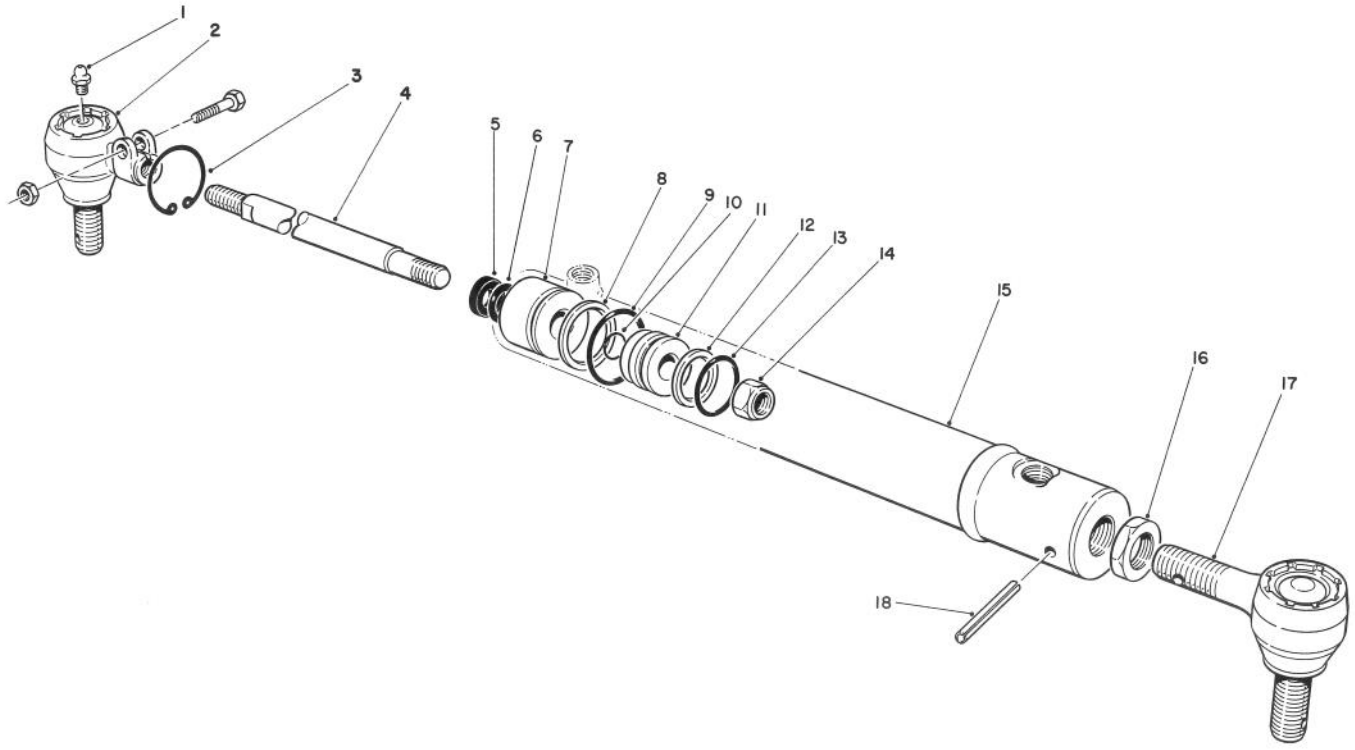
†Not serviceable separately.



REAR AXLE ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
47	32152-2	Nut - Lock	2
48	340-70	Nut - Bulkhead	2
49	69-9400	Bracket - Hose Support	1

Ref. No.	Part No.	Description	No. Used
50	69-6010	Tube - Hydraulic	1
51	69-6020	Tube - Hydraulic	1
52	237-21	Seal - O-Ring	4

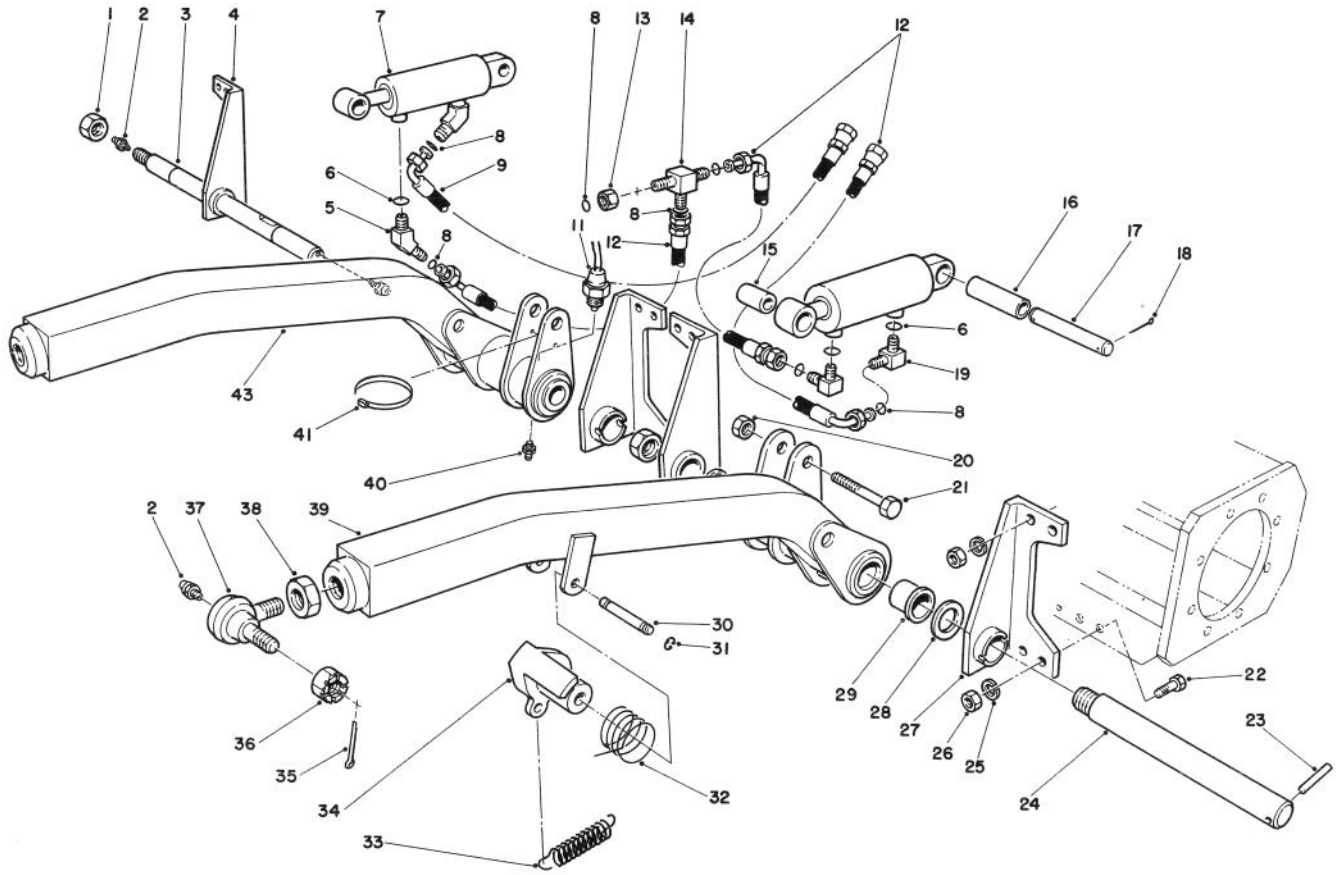


T-0378-90

HYDRAULIC STEERING CYLINDER

Ref. No.	Part No.	Description	No. Used
1	302-5	Fitting - Grease	1
2	69-9810	Joint - Ball	1
3		Ring - Retaining	1
4	69-2020	Rod - Piston	1
5		Wiper - Rod	1
6		Seal - U-Cup	1
7	69-2030	Ring - Head	1
8		Ring - Back-Up	1
9		Seal - O-Ring	1
10		Seal - O-Ring	1
11	69-2000	Piston	1
12		Ring - Piston	1
13		Seal - O-Ring	1
14	69-1990	Nut - Lock	1
15		Barrel - Cylinder	1
16	69-1980	Nut - Jam	1
17	69-1970	Joint - Ball	1
18	32121-34	Pin - Roll	1
*	69-2040	Repair Kit (Incl. Ref. #3, 5, 6, 8-10 & 12-13)	1
*	69-1960	Steering Cylinder (Complete) (Incl. Ref. #3-18)	2

*Not Illustrated

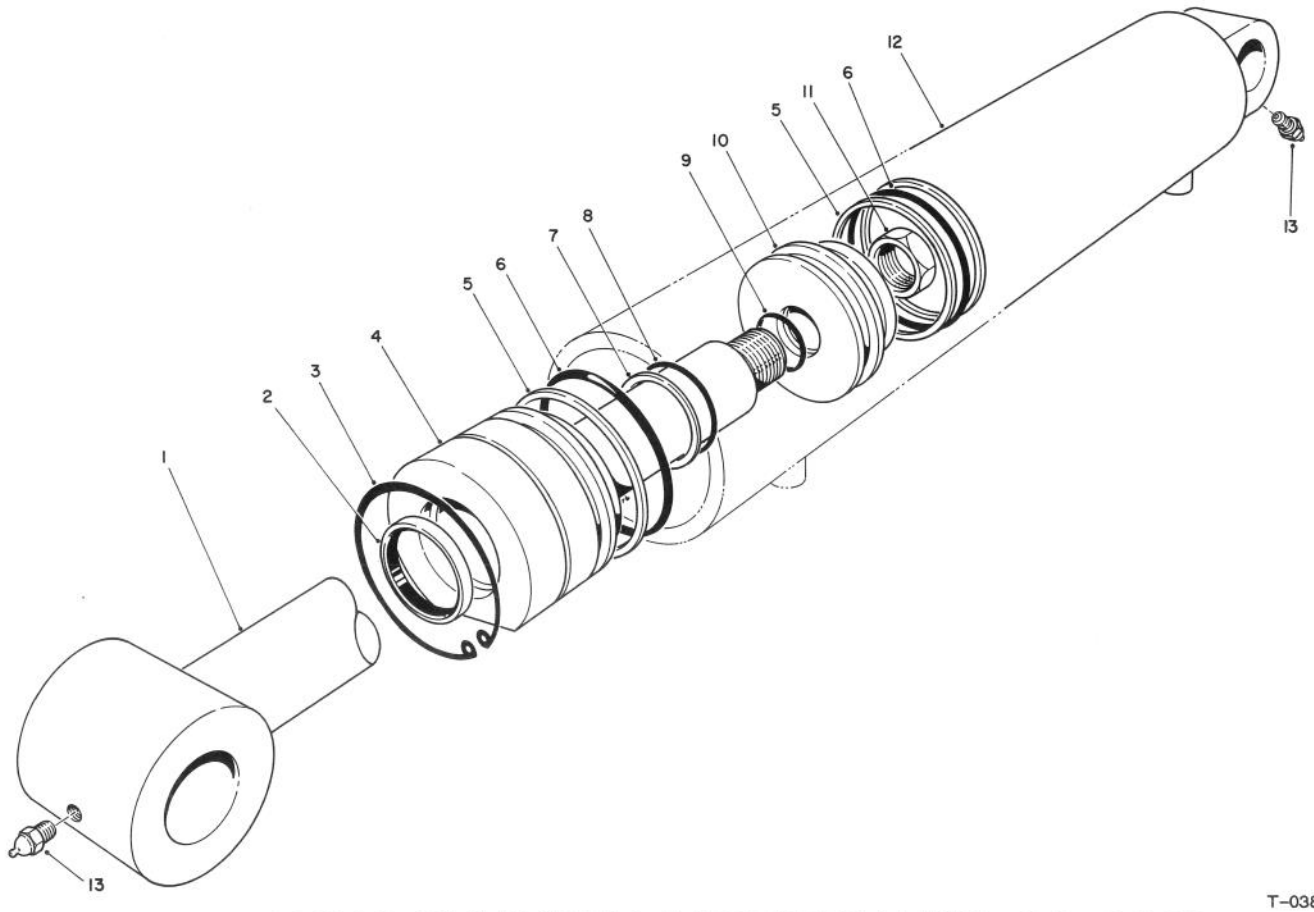


T-0344-90

FRONT LIFT ARM ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3296-68	Nut - Lock	2
2	302-2	Fitting - Grease	4
3	71-2570	Shaft - Pivot	1
4	69-7940	Support - Lift Arm R.H.	2
5	340-87	Fitting - Hydraulic Elbow (Incl. Ref. #6 & 8)	2
6	237-42	Seal - O-Ring	4
7	69-2180	Cylinder - Hydraulic	2
8	237-22	Seal - O-Ring	7
9	69-8440	Hose - Hydraulic	1
11	72-4310	Switch - Ball	1
12	69-5440	Hose - Hydraulic	3
13	340-70	Nut - Bulkhead	1
14	340-68	Fitting - Hydraulic Bulk. Tee (Incl. Ref. #8)	1
15	69-9190	Tube - Cylinder Bushing	2
16	20-4360	Tube - Spacer	2
17	69-9180	Pin - Cylinder	2
18	3272-23	Pin - Cotter	4
19	340-77	Fitting - Hydraulic Elbow (Incl. Ref. #6 & 8)	2
20	32153-6	Nut - Lock	2
21	328-10	Screw - Cap Hex. Hd.	2

Ref. No.	Part No.	Description	No. Used
22	325-6	Screw - Cap Hex. Hd.	12
23	32121-110	Pin - Roll	2
24	71-2590	Shaft - Pivot	1
25	3253-7	Washer - Lock	16
26	3217-9	Nut - Hex.	16
27	69-7920	Support - Lift Arm L.H.	2
28	256-304	Washer - Thrust	2
29	69-6470	Bushing - Flange	4
30	69-9080	Pin - Latch	1
31	32120-47	Ring - Retaining	2
32	69-8470	Spring - Torsion	1
33	76-1670	Spring - Extension	1
34	69-1540	Pivot - Spring	1
35	3272-12	Pin - Cotter	2
36	32136-2	Nut - Slotted	2
37	21-0160	Joint - Ball (Incl. Ref. #36)	2
38	21-3000	Nut - Jam	2
39	69-9580	Front Lift Arm Assy. L.H. (Incl. Ref. #29 & 40)	1
40	302-5	Fitting - Grease	2
41	3290-378	Tie - Cable	1
43	69-9570	Front Lift Arm Assy. R.H. (Incl. Ref. #29 & 40)	1



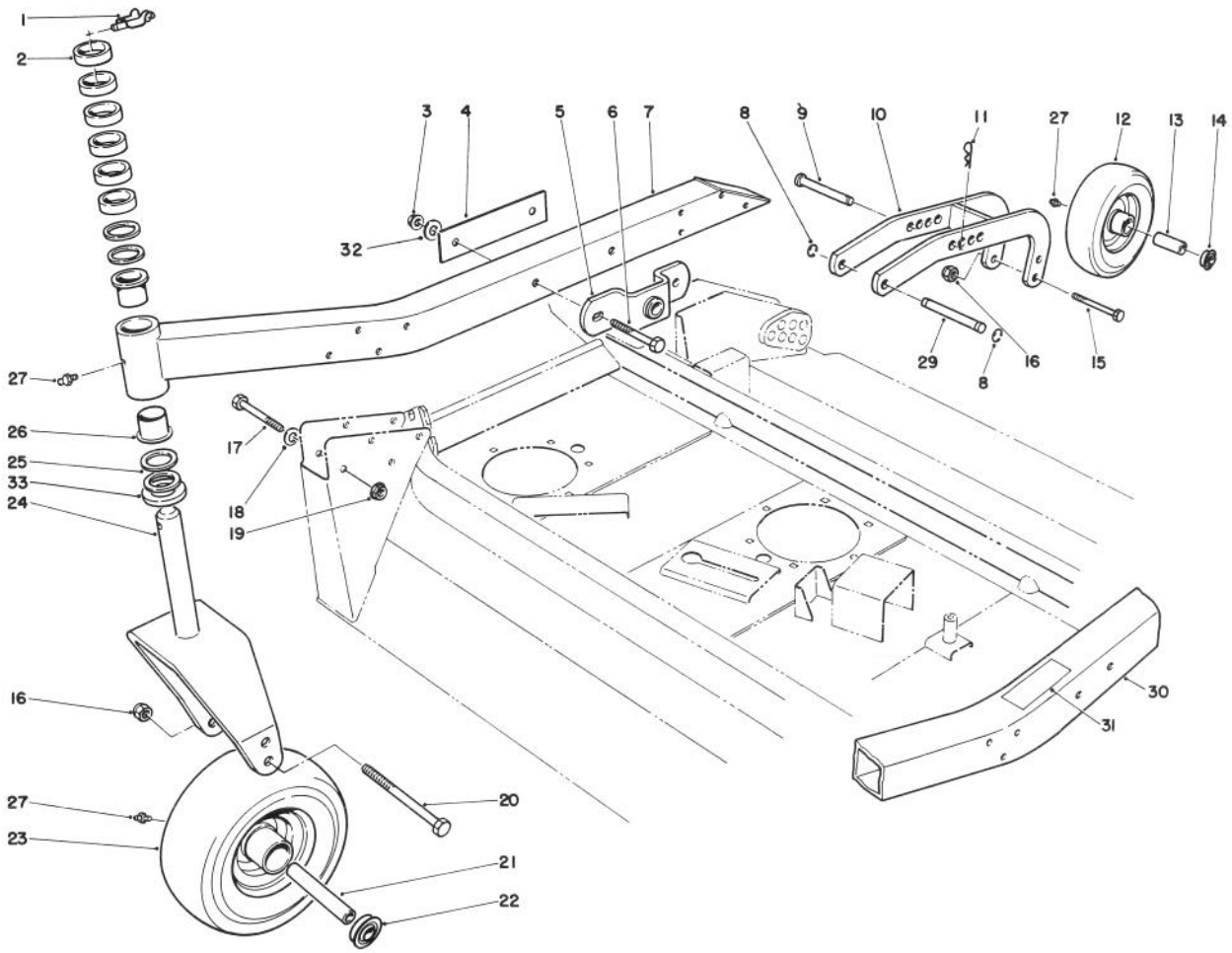
T-0380-90

HYDRAULIC CYLINDER ASSEMBLY NO. 69-2180

Ref. No.	Part No.	Description	No. Used
1	69-2580	Shaft w/clevis	1
†2		Seal - Dust	1
3	61-4990	Ring - Retaining	1
4	69-2570	Head	1
†5		Ring - Back-Up	3
†6		Seal - O-Ring	2
†7		Ring - Back-Up	1
†8		Seal - O-Ring	1

Ref. No.	Part No.	Description	No. Used
†9		Seal - O-Ring	1
10	60-9770	Piston	1
11	60-9760	Nut - Lock	1
†12		Barrel	1
13	302-5	Fitting - Grease	2
*	69-2620	Seal Repair Kit (Incl. Ref. #2 & 5-9)	1

*Not Illustrated
†Not serviceable separately.

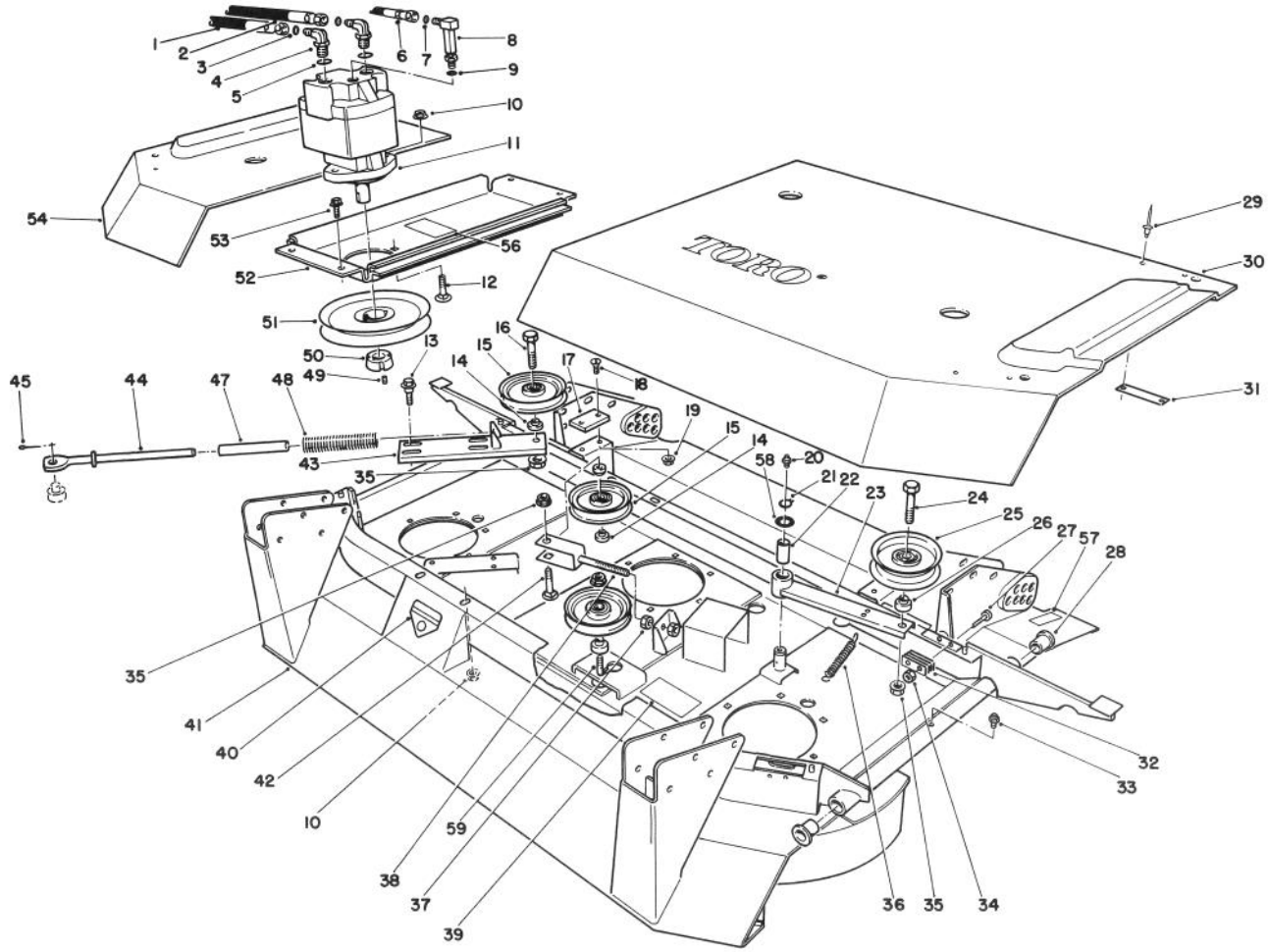


T-0362A-90

CENTER DECK MODEL NO. 30592
CARRIER FRAME ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3290-384	Pin - Lynch	2
2	69-1510	Spacer - Caster	12
3	32128-23	Nut - Flange Lock	4
4	69-8790	Plate - Reinforcing	2
5	69-7290	Mount - Ball Joint	2
6	325-15	Screw - Cap Hex. Hd.	4
7	69-8860	Arm - Castor R.H. (Incl. Ref. #26-27)	1
8	32151-48	Ring - Retaining	4
9	283-70	Pin - Hitch (Incl. Ref. #11)	2
10	75-9790	Arm - Pivot	2
11	3290-343	Pin - Cotter Hair	2
12	69-6930	Castor Wheel Assembly (Incl. Ref. #13-14, & 27)	2
13	251-332	Spacer Bearing	2
14	251-321	Bearing - Castor	4
15	327-24	Screw Cap Hex. Hd.	2
16	3296-53	Nut - Lock	4

Ref. No.	Part No.	Description	No. Used
17	323-15	Screw - Cap Hex. Hd.	16
18	5-0838	Washer - Flat	16
19	32128-43	Nut - Lock	16
20	327-15	Screw - Cap Hex. Hd.	2
21	251-333	Spacer - Bearing	2
22	251-321	Bearing - Castor	4
23	69-6940	Castor Wheel Assembly (Incl. Ref. #21-22, & 27)	2
24	75-9650	Fork - Castor	2
25	69-6860	Washer - Castor	8
26	69-6470	Bushing - Flange	4
27	302-5	Fitting - Grease	6
29	69-9260	Pin - Clevis	2
30	13-5069	Arm - Castor L.H. (Incl. Ref. #26-27, & 31)	1
31	69-0880	Decal - Torque	1
32	30-8770	Washer - Flat	2
33	77-0950	Washer - Castor	2

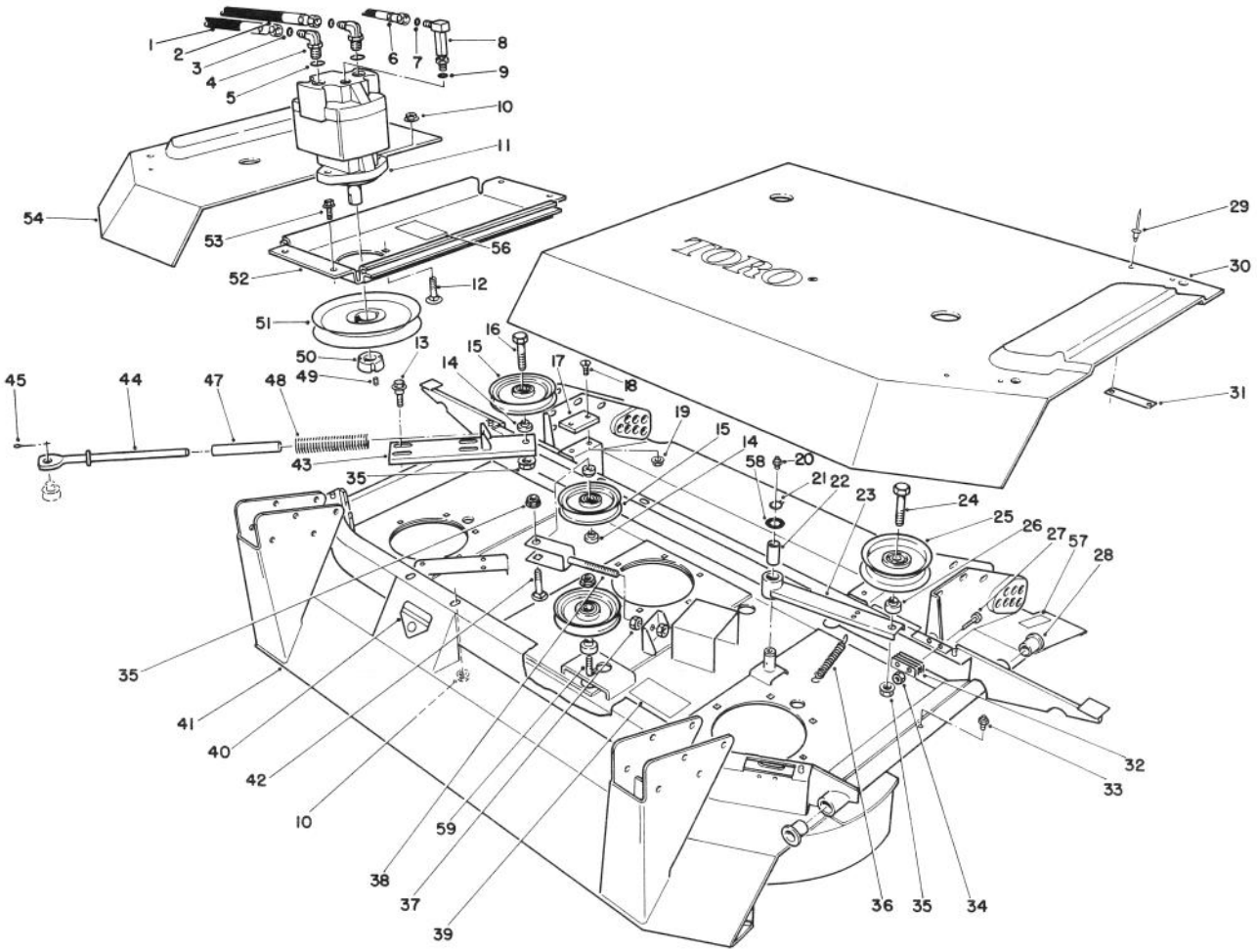


T-0361B-90

CENTER DECK MODEL NO. 30592

Ref. No.	Part No.	Description	No. Used
1	76-2760	Hydraulic Hose Assembly	1
2	76-2750	Hydraulic Hose Assembly	1
3	237-58	Seal - O-Ring	2
4	340-142	Fitting - Hydraulic Elbow (Incl. Ref #3 & 5)	2
5	237-81	Seal - O-Ring	2
6	76-2770	Hydraulic Hose Assembly	1
7	237-22	Seal - O-Ring	1
8	69-4320	Fitting - Hydraulic 90°Elbow (Incl. Ref. #7 & 9)	1
9	237-42	Seal O-Ring	1
10	32128-21	Nut - Flange Lock	6
11	69-2780	Motor - Hydraulic	1
12	3231-28	Bolt - Carriage	2
13	19-1470	Bolt - Shoulder	4
14	69-6960	Spacer - Idler	4
15	63-1540	Pulley - Idler	3
16	325-7	Screw - Cap Hex. Hd.	1
17	69-9290	Pad - Bumper	2
18	32108-103	Screw - Flat Hd.	4
19	32128 -20	Nut - Lock	4
20	302-2	Fitting - Grease	1
21	32120-72	Ring - Retaining	1
22	256-188	Bushing - Sleeve	1
23	69-6610	Arm - Idler (Incl. Ref. #22)	1
24	325-8	Screw - Cap Hex. Hd.	1
25	69-5430	Pulley-Idler	1

Ref. No.	Part No.	Description	No. Used
26	69-6970	Spacer - Idler	1
27	32105-1	Screw - Machine	8
28	256-117	Bushing - Flange	4
29	3269-25	Rivet - Pop	8
30	69-6780	Cover - Center Left	1
31	69-6870	Plate - Magnet	4
32	69-6260	Magnet - Cover	4
33	302-5	Fitting - Grease	2
34	3296-2	Nut - Lock	8
35	32128-23	Nut - Flange Lock	4
36	76-1670	Spring - Extension	1
37	3217-9	Nut - Jam	2
38	69-6550	Arm - Tension	1
39	69-0910	Decal - Belt Routing	1
40	43-8480	Decal - Danger	1
41	13-4969	Deck - Center (Incl. Ref. #20, 28, 33, 39, 40 & 57)	1
42	3233-27	Bolt - Carriage	1
43	69-6490	Plate - Tension	1
44	77-2830	Rod - Spring	1
45	3272-7	Pin - Cotter	1
47	69-6890	Spacer - Spring	1
48	69-9270	Spring - Compression	1
49		Screw - Set	2



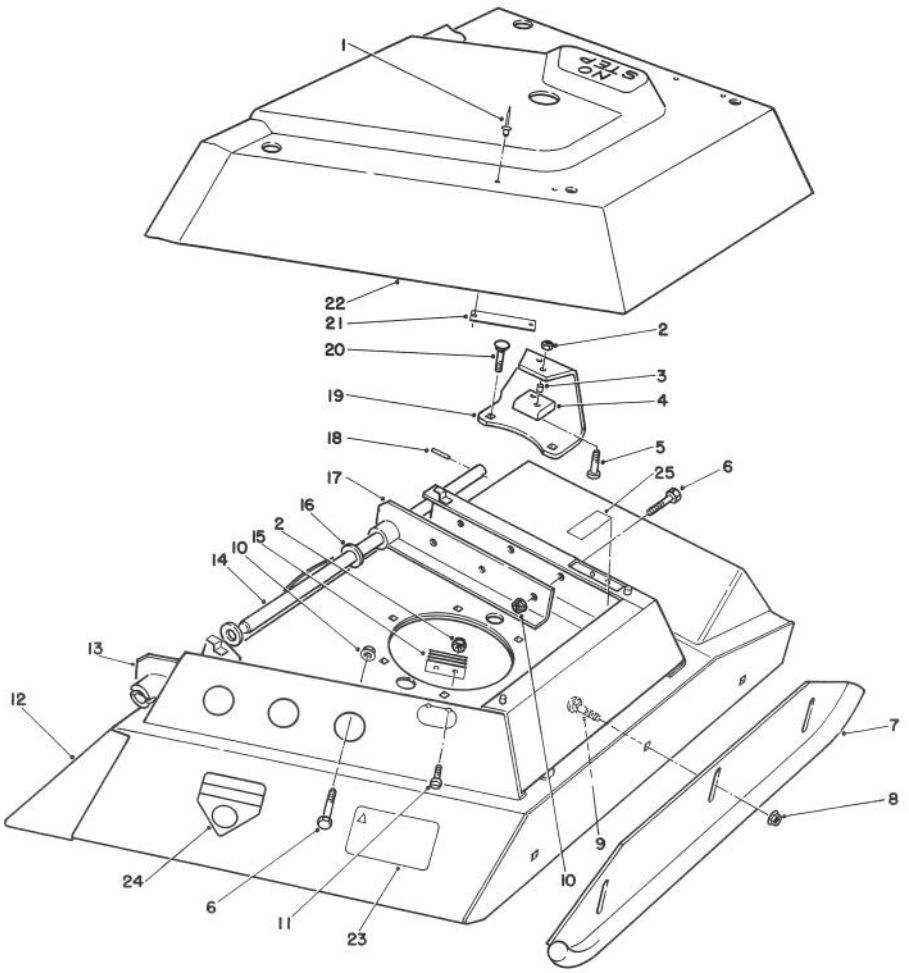
T-0361A-90

CENTER DECK MODEL NO. 30592 (Continued)

Ref. No.	Part No.	Description	No. Used
50	23-1640	Bushing - Taper Lock (Incl. Ref. #49)	1
51	63-0660	Pulley - Drive	1
52	69-6390	Plate - Gearbox	1
53	3234-12	Screw - Hex. Flange Hd.	4
54	69-6790	Cover - Center Right	1

Ref. No.	Part No.	Description	No. Used
56	71-4260	Decal - H.O.C.	1
57	69-0820	Decal - H.O.C.	1
58	3-6498	Washer - Flat	1
*	69-6220	Hex.-Belt - Deck Drive	1
*	3290-378	Tie - Cable	2

*Not Illustrated



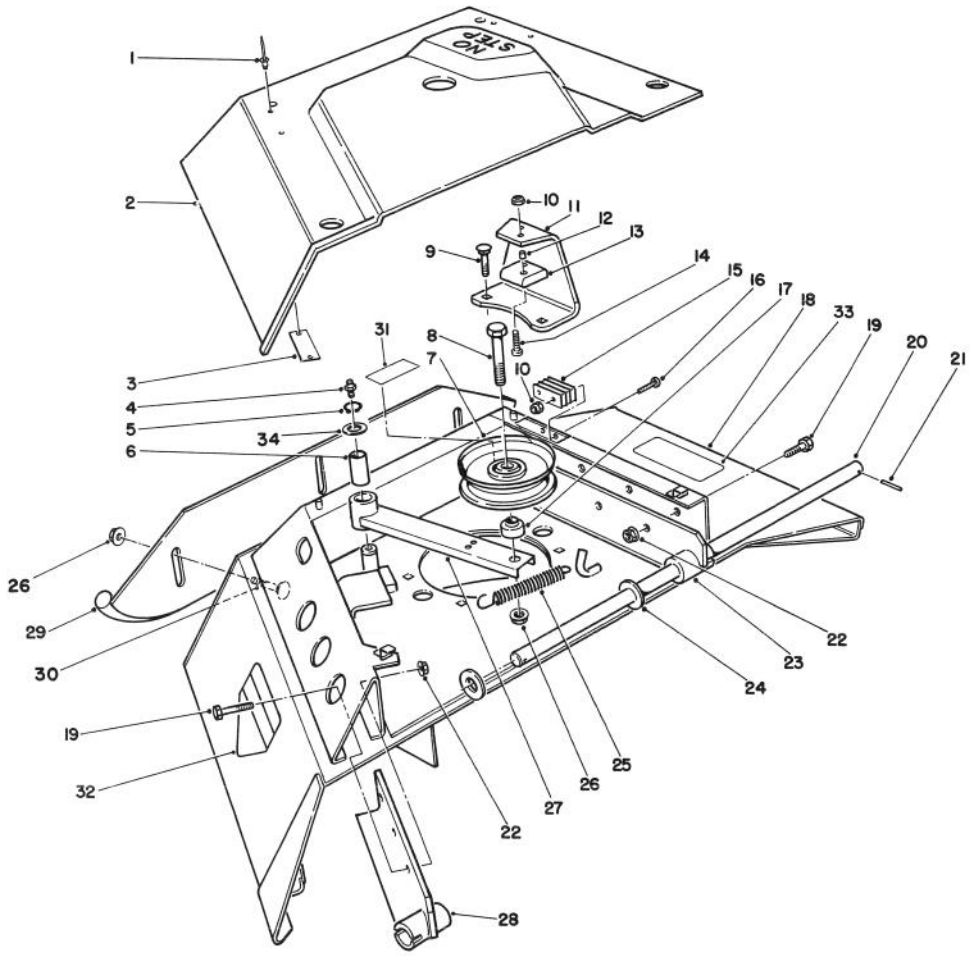
T-0366-90

CENTER DECK MODEL NO. 30592 LEFT WING ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3269-25	Rivet - Pop	4
2	3296-2	Nut - Lock	6
3	40-9520	Spacer - Split	2
4	40-0330	Cushion - Rubber	1
5	3250-27	Screw - Truss Hd.	2
6	323-6	Screw - Cap Hex. Hd.	6
7	69-6730	Skid	1
8	32128-23	Nut - Flange Lock	3
9	3233-9	Bolt - Carriage	3
10	32128-21	Nut - Flange Lock	6
11	32105-1	Screw - Machine	4
12	13-4989	Deck - Left Wing (Incl. Ref. #23-25)	1
13	69-6640	Hinge - Left Front	1

Ref. No.	Part No.	Description	No. Used
14	69-6900	Shaft - Hinge	1
15	69-6260	Magnet - Cover	2
16	256-305	Washer - Thrust	2
17	69-6670	Hinge - Left Rear	1
18	32121-6	Pin - Roll	2
19	69-6910	Bracket - Support	1
20	3231-25	Bolt - Carriage	2
21	69-6870	Plate - Magnet	2
22	69-6850	Cover - Left Wing	1
23	66-1340	Decal - Danger	1
24	43-8480	Decal - Danger	1
25	67-5360	Decal - Danger	1
*	76-2060	V-Belt	1
*	42-6200	Shim - Cushion	A/R

*Not Illustrated



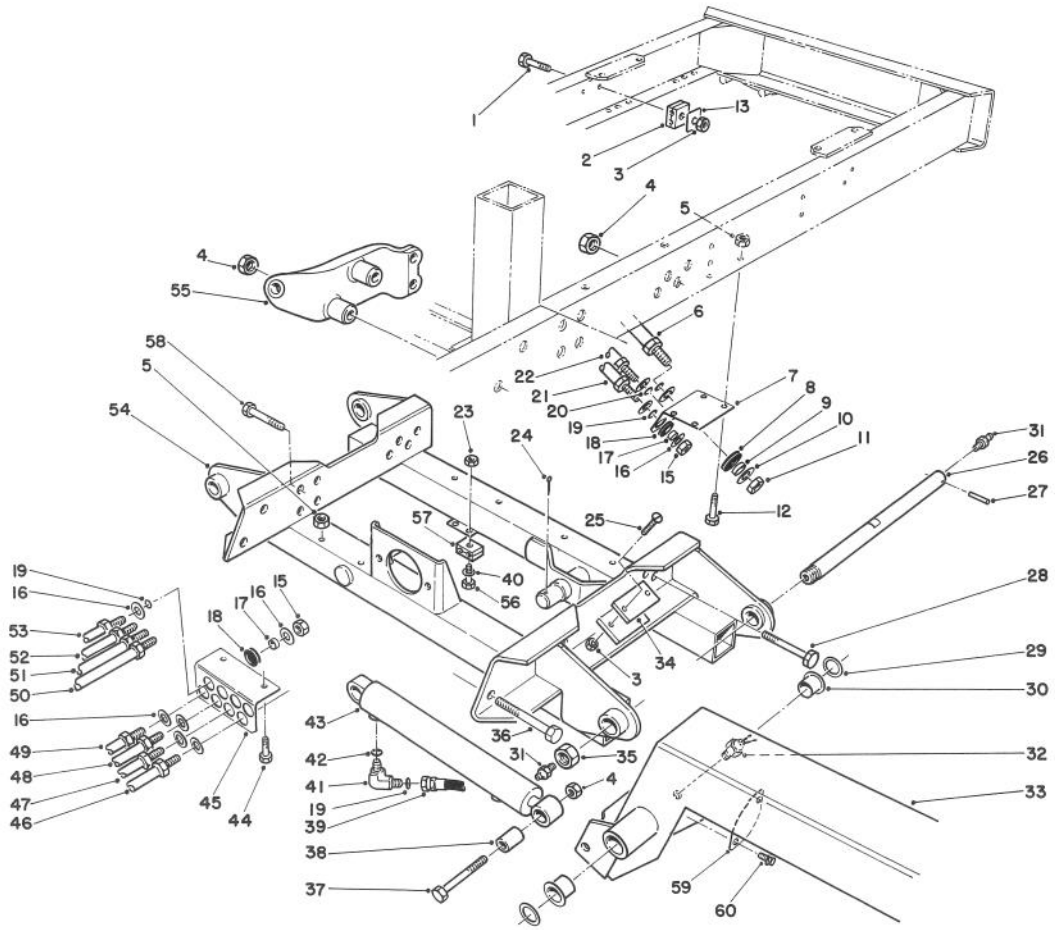
T-0365-90

CENTER DECK MODEL NO. 30592 RIGHT WING ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3269-25	Rivet - Pop	4
2	69-6840	Cover - Right Wing	1
3	69-6870	Plate - Magnet	2
4	302-2	Fitting - Grease	1
5	32120-72	Ring - Retaining	1
6	256-188	Bushing - Sleeve	1
7	69-5430	Pulley - Idler	1
8	325-8	Screw - Cap Hex. Hd.	1
9	3231-25	Bolt - Carriage	2
10	3296-2	Nut - Lock	6
11	69-6910	Bracket - Support	1
12	40-9520	Spacer - Split	2
13	40-0330	Cushion - Rubber	1
14	3250-27	Screw - Truss Hd.	2
15	69-6260	Magnet - Cover	2
16	32105-1	Screw - Machine	4
17	69-6970	Spacer - Idler	1
18	13-4979	Deck - Right Wing (Incl. Ref. #4, 32 & 33)	1

Ref. No.	Part No.	Description	No. Used
19	323-6	Screw - Cap Hex. Hd.	6
20	69-6900	Shaft - Hinge	1
21	32121-6	Pin - Roll	2
22	32128-21	Nut - Flange Lock	6
23	69-6710	Hinge - Right Rear	1
24	256-305	Washer - Thrust	2
25	76-1670	Spring - Extension	1
26	32128-23	Nut - Flange Lock	4
27	69-6610	Arm - Idler (Incl. Ref. #6)	1
28	69-6690	Hinge - Right Front	1
29	69-6730	Skid	1
30	3233-9	Bolt - Carriage	3
31	67-5360	Decal - anger	1
32	43-8480	Decal - Danger	1
33	66-1340	Decal - Danger	1
34	3-6498	Washer	1
*	76-2060	V-Belt	1
*	42-6200	Shim - Cushion	A/R

*Not Illustrated



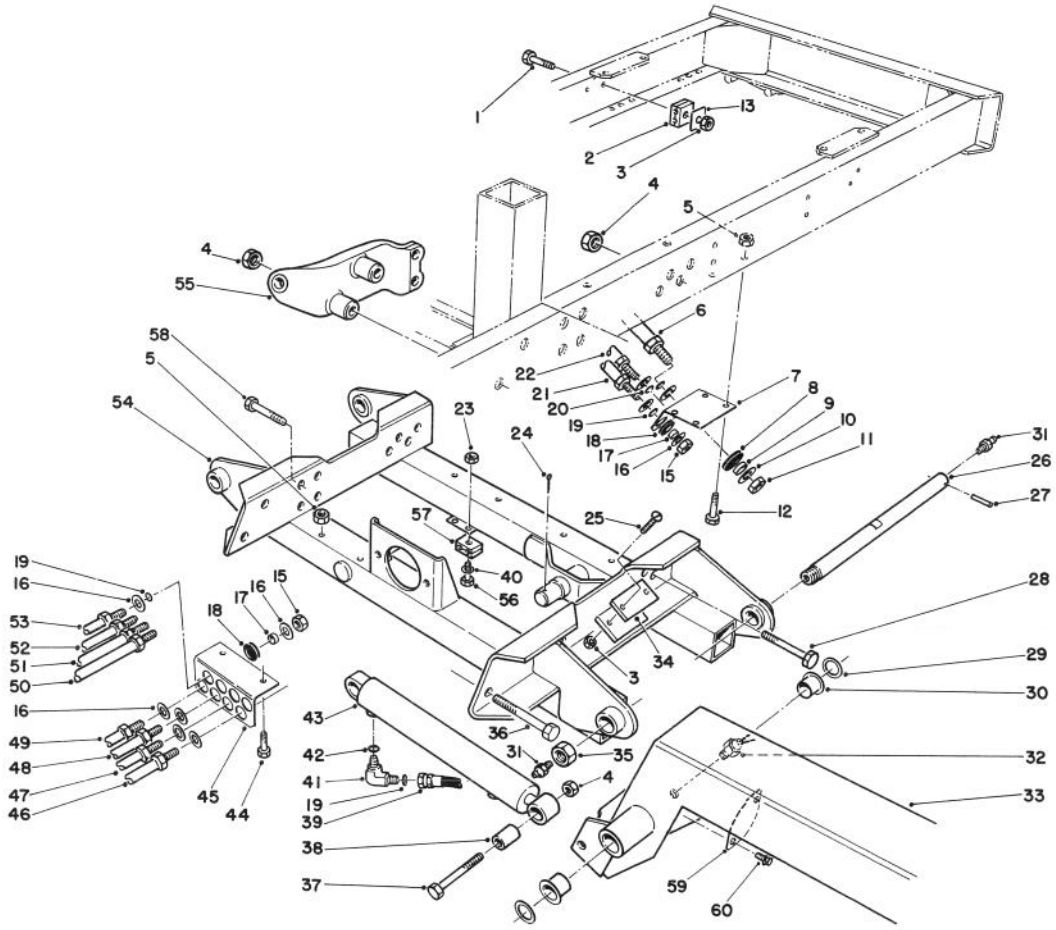
T-0348-90

WING DECK LIFT ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	322-11	Screw - Cap Hex. Hd.	1
2	56-7974	Clamp Half - Hydraulic Line	2
3	32152-1	Nut - Lock	5
4	32153-6	Nut - Lock	22
5	32152-2	Nut - Lock	6
6	69-6170	Tube - Hydraulic L.H. (Incl. Ref. #20)	1
*	69-6140	Tube - Hydraulic R.H. (Incl. Ref. # 20)	1
7	69-9450	Bracket - Wing Hose L.H.	1
*	69-9460	Bracket - Wing Hose R.H.	1
8	240-3	Grommet	4
9	69-9000	Spacer	4
10	69-9010	Washer	8
11	340-74	Nut - Bulkhead	4
12	323-6	Screw - Cap Hex. Hd.	4
13	69-9761	Plate - Cover	1
15	340-70	Nut - Bulkhead	10
16	69-8940	Washer	20
17	69-8970	Spacer	10
18	240-4	Grommet	10
19	237-22	Seal - O-Ring	14
20	237-65	Seal - O-Ring	4
21	69-5980	Tube - Hydraulic L.H. (Incl. Ref. #19)	1
*	69-5970	Tube - Hydraulic R.H. (Incl. Ref #19)	1

Ref. No.	Part No.	Description	No. Used
22	69-6180	Tube - Hydraulic L.H. (Incl. Ref. #20)	1
*	69-6150	Tube - Hydraulic R.H. (Incl. Ref. #20)	1
23	32152-4	Nut Lock	3
24	3272-33	Pin - Cotter	2
25	32108-103	Screw - Machine Flat Hd.	4
26	71-2580	Shaft - Lift Arm Pivot	2
27	32121-110	Pin - Roll	2
28	328-26	Screw - Cap Hex. Hd.	12
29	256-304	Washer - Thrust	4
30	69-6470	Bushing - Flange	4
31	302-2	Fitting - Grease	4
32	72-4310	Switch - Lift	2
33	71-0160	Lift Arm Assembly L.H. (Incl. Ref. #30-31)	1
*	71-0150	Lift Arm Assembly R.H. (Incl. Ref. #30-31)	1
34	69-9300	Cushion - Rubber	2
35	3296-68	Nut Lock	2
36	328-8	Screw - Cap Hex. Hd.	4
37	328-10	Screw - Cap Hex. Hd.	2
38	69-9190	Bushing - Cylinder	2
39	69-5490	Hose - Cylinder	4
40	3256-56	Washer - Flat	3
41	340-77	Fitting - Hydraulic Elbow (Incl. Ref. #19 & 42)	4

*Not Illustrated

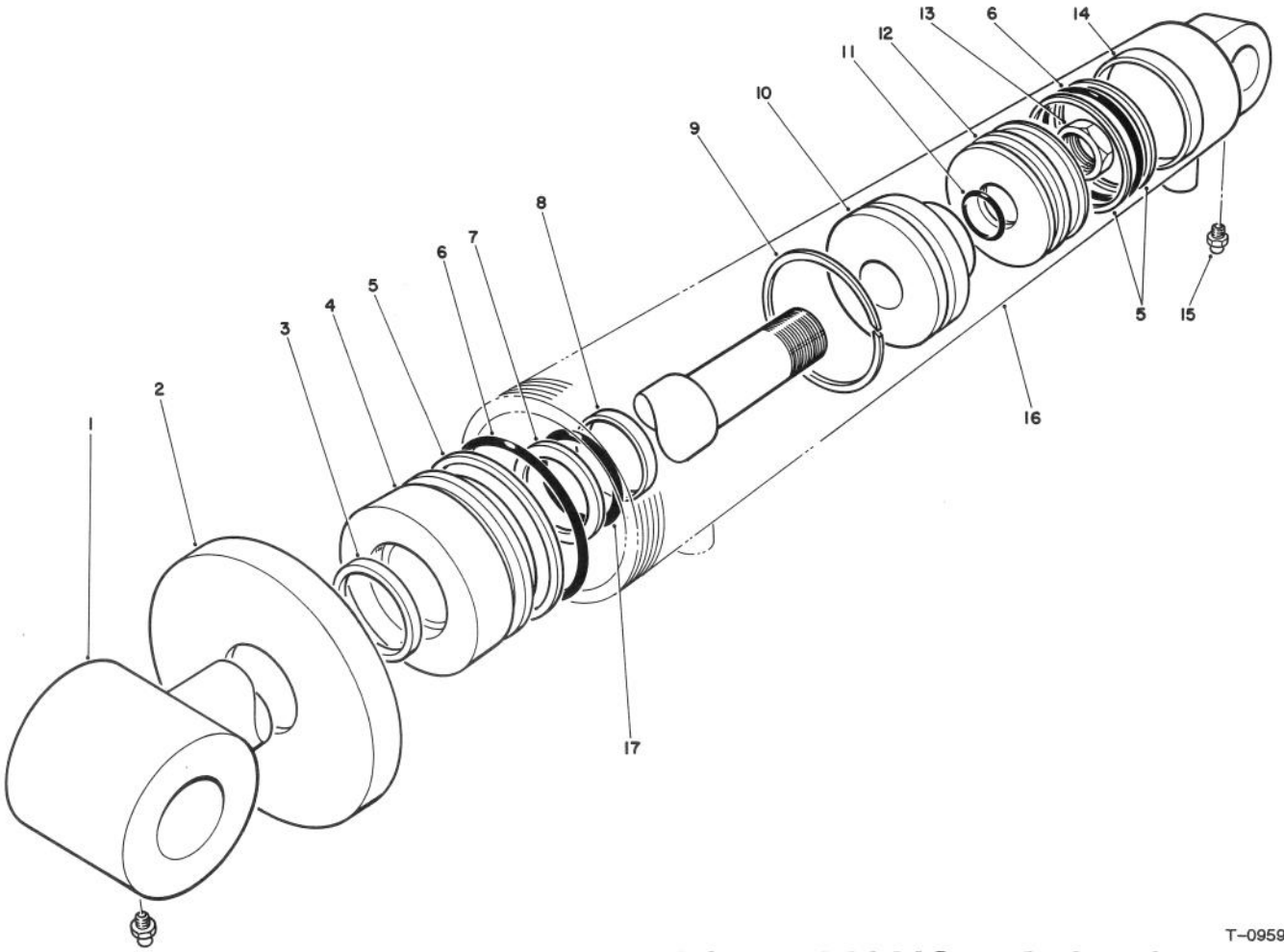


T-0348-90

WING DECK LIFT ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
42	237-42	Seal - O-Ring	4
43	74-2170	Cylinder - Lift	2
44	323-15	Screw - Cap Hex. Hd.	2
45	74-2680	Bracket - Bulkhead	1
46	69-6030	Tube - Hydraulic (Incl. Ref. #19)	1
47	69-6060	Tube - Hydraulic (Incl. Ref. #19)	1
48	69-6070	Tube - Hydraulic (Incl. Ref. #19)	1
49	69-6000	Tube - Hydraulic (Incl. Ref. #19)	1
50	69-6040	Tube - Hydraulic (Incl. Ref. #19)	1
51	69-6050	Tube - Hydraulic (Incl. Ref. #19)	1
52	69-6080	Tube - Hydraulic (Incl. Ref. #19)	1
53	69-5990	Tube - Hydraulic (Incl. Ref. #19)	1
54	69-4400	Carrier -Wing Deck	1
55	69-1580	Anchor - Latch L.H.	1
*	69-1600	Anchor - Latch R.H.	1
56	321-9	Screw - Cap Hex. Hd.	3
57	56-7973	Clamp Half - Hydraulic Line	6
58	328-24	Screw - Cap Hex. Hd.	4
59	39-7650	Plate - Cover	2
60	32144-11	Screw - Thread Forming	4
*	3290-378	Tie - Cable	3

*Not Illustrated



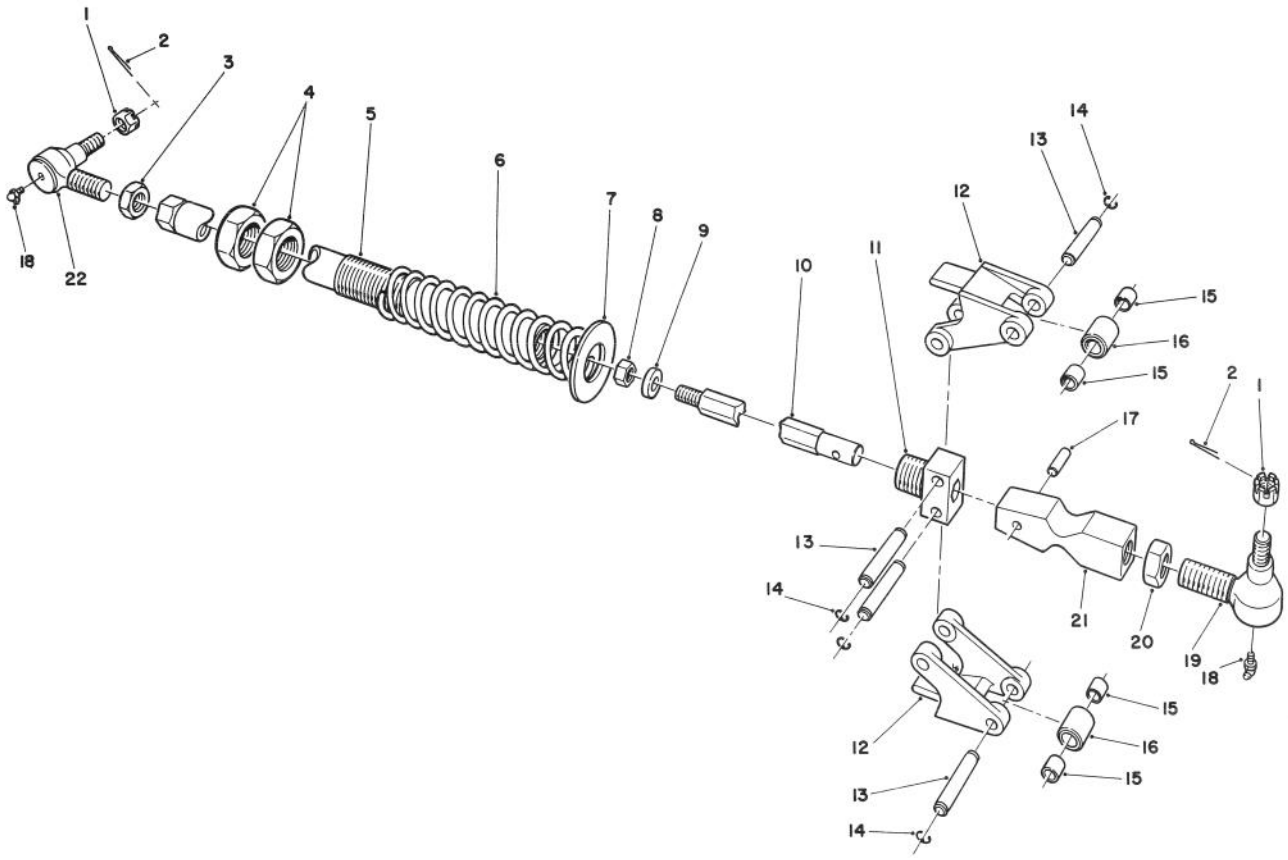
T-0959-90

HYDRAULIC CYLINDER ASSEMBLY NO. 74-2170

Ref. No.	Part No.	Description	No. Used
1	74-2230	Shaft/Clevis	1
2	74-2220	Collar	1
†3		Seal - Dust	1
4	74-2200	Head	1
†5		Ring - Back-Up	3
†6		Seal - O-Ring	2
†7		Ring - Back-Up	1
†8		Ring - Wear	1
9	74-2180	Ring - Steel	1
10	74-2190	Cushion	1

Ref. No.	Part No.	Description	No. Used
†11		Seal - O-Ring	1
12	74-2210	Piston	1
13	60-9760	Nut - Lock	1
†14		Ring - Wear	1
15	302-5	Fitting - Grease	2
†16		Barrel/Clevis	1
†17		Seal - O-Ring	1
*	74-2250	Seal Repair Kit (Incl. Ref. #3, 5-8, 11, 14 & 17)	1

*Not Illustrated
†Not serviceable separately.

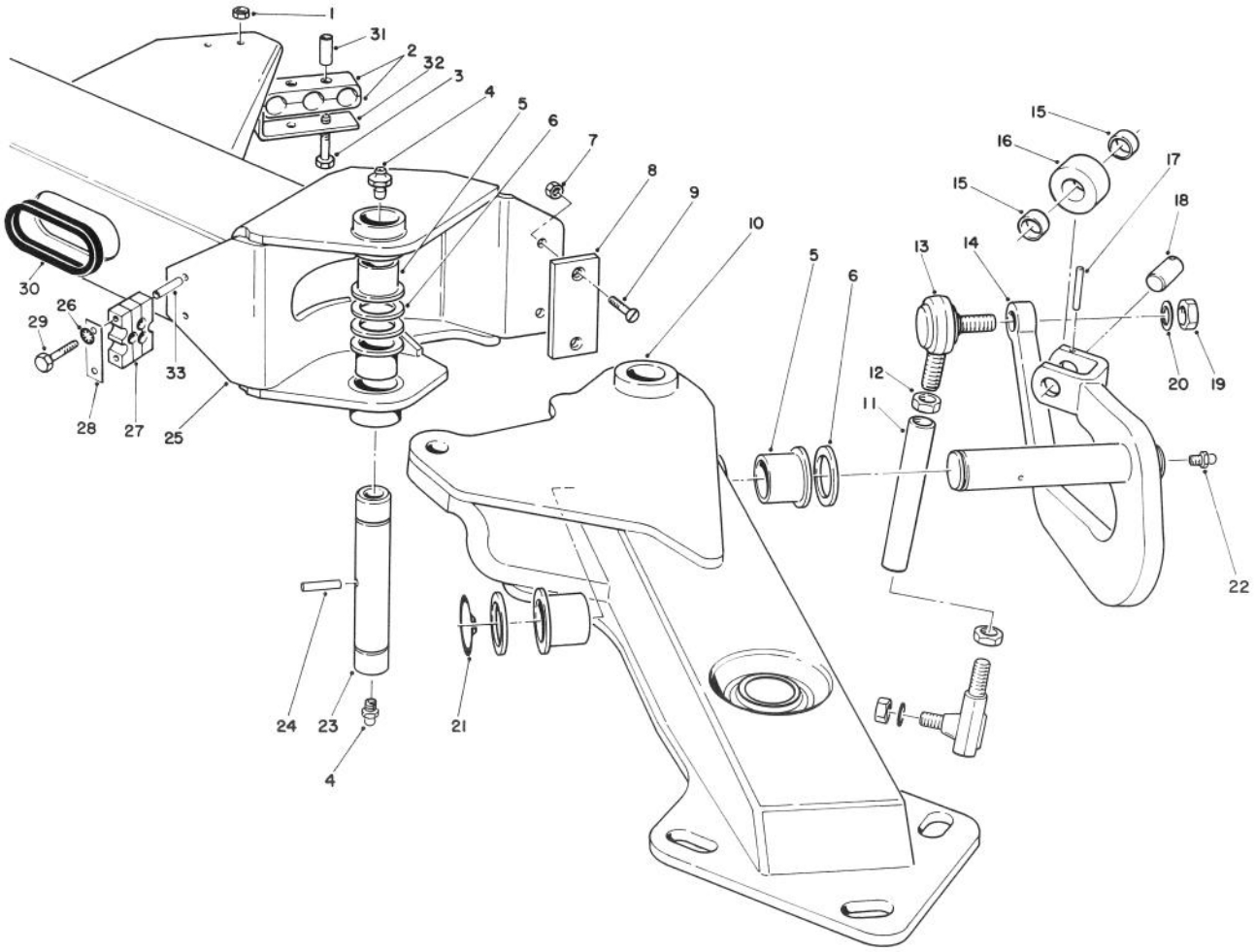


T-0369-90

WING DECK LATCH ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	32136-2	Nut - Castle	4
2	3272-12	Pin - Cotter	4
3	21-3001	Nut - Jam L.H. Thread	2
4	3220-22	Nut - Jam	4
5	69-7210	Tube - Latch	2
6	69-8480	Spring - Compression	2
7	69-9100	Washer - Latch	2
8	3296-41	Nut - Lock	2
9	71-2550	Washer - Latch Shaft	2
10	69-9680	Shaft - Latch	2
11	69-9690	Block - Latch Pivot	2

Ref. No.	Part No.	Description	No. Used
12	69-1630	Arm - Latch Pivot	4
13	69-9080	Pin - Latch	8
14	32120-47	Ring - Retaining	16
15	256-172	Bearing - Sleeve	8
16	69-9090	Roller - Latch	4
17	32121-49	Pin - Roll	2
18	302-33	Fitting - Grease	4
19	21-0160	Joint - Ball ((Incl. Ref. #1)	2
20	21-3000	Nut - Jam	2
21	69-9670	Cam - Spring Trip	2
22	21-0161	Joint - Ball (Incl. Ref. #1)	2



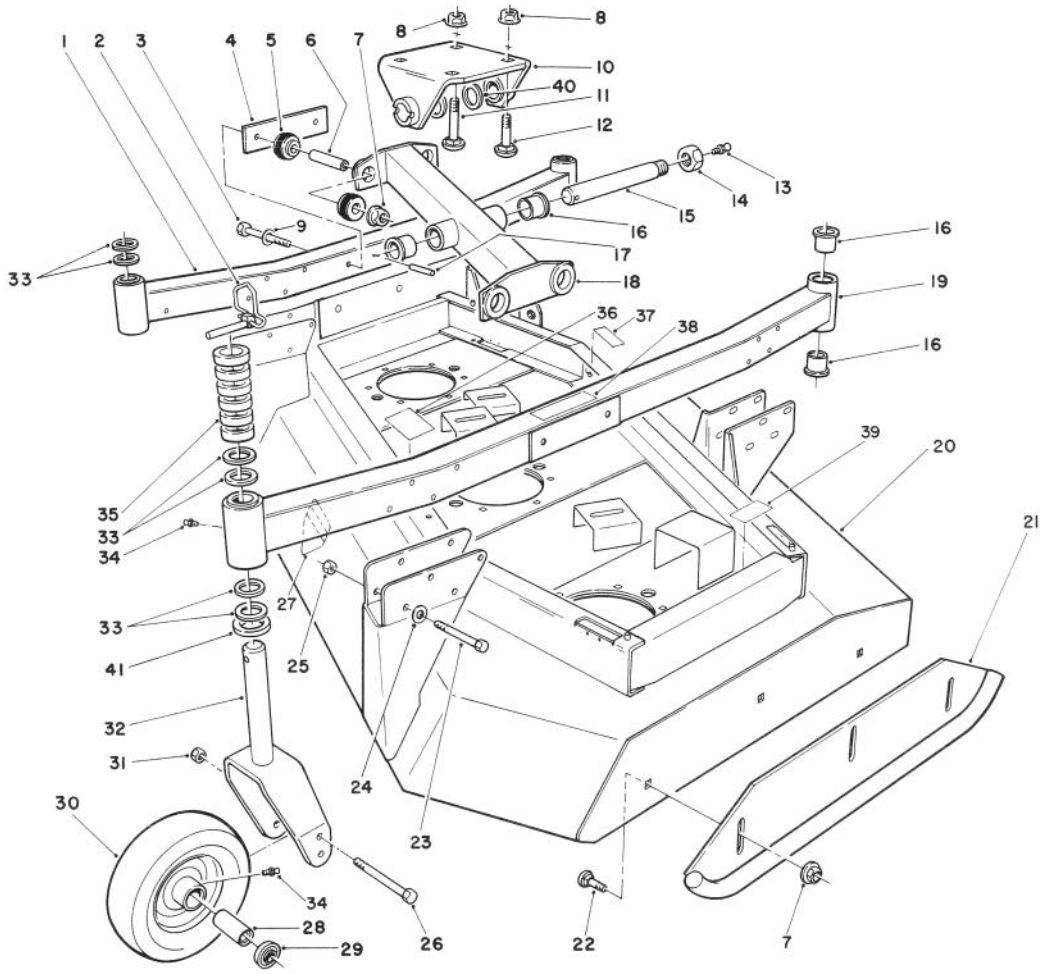
T-0370A-90

WING DECK LIFT ARM ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	32152-4	Nut - Lock	4
2	74-2710	Clamp Half - Hydraulic Line	4
3	321-15	Screw - Cap Hex. Hd.	4
4	302-2	Fitting - Grease	4
5	69-6470	Bushing - Flange	8
6	256-304	Washer - Thrust	8
7	32152-1	Nut - Lock	4
8	69-9300	Cushion - Rubber	2
9	32108-103	Screw - Machine Flat Hd.	4
10	71-0180	Arm - Outer Lift L.H. (Incl. Ref. #5)	1
*	71-0170	Arm - Outer Lift R.H. (Incl. Ref. #5)	1
11	71-2600	Tube - Anti - Sway	2
12	3220-7	Nut - Jam	4
13	2411-40	Joint - Ball	4
14	69-7310	Arm - Anti-Sway L.H. (Incl. Ref. #22)	1
*	69-7350	Arm - Anti-Sway R.H. (Incl. Ref. #22)	1
15	256-76	Bushing - Sleeve	4

Ref. No.	Part No.	Description	No. Used
16	69-9240	Roller - Cam	2
17	32121-34	Pin - Roll	2
18	69-9250	Shaft - Roller	2
19	3219-7	Nut - Lock	4
20	3253-9	Washer - Lock	4
21	32151-10	Ring - Retaining	2
22	302-5	Fitting - Grease	2
23	71-2620	Shaft - Lift Arm Elbow	2
24	32121-110	Pin Roll	2
25	71-0160	Lift Arm Assembly L.H. (Incl. Ref. #5)	1
*	71-0150	Lift Arm Assembly R.H. (Incl. Ref. #5)	1
26	3254-8	Washer	4
27	82-8170	Clamp - Hose	6
28	71-4100	Plate - Clamp	2
29	321-19	Screw - Cap Hex. Hd.	4
30	240-8	Grommet	4
31	74-2730	Tube - Clamp	4
32	74-2750	Retainer - Clamp	2
33	82-8160	Spacer	4

*Not Illustrated

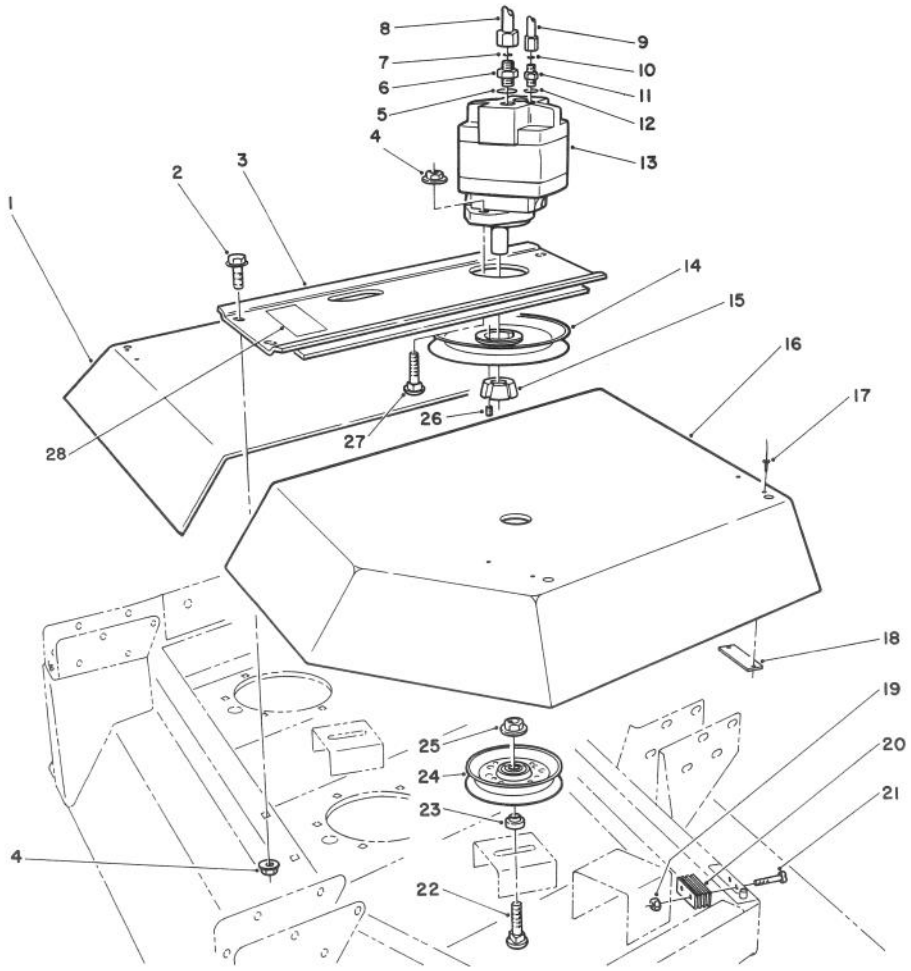


T-0335A-90

WING DECK MODEL NO 30591 L.H. & 30593 R.H.

Ref. No.	Part No.	Description	No. Used
1	69-8830	Arm - Inside Castor (Incl. Ref. #16 & 34)	2
2	3290-384	Pin - Lynch	8
3	325-20	Screw - Cap Hex. Hd.	8
4	69-8790	Plate - Reinforcing	2
5	69-9700	Mount - Rubber (Incl. Ref. #6)	8
6		Spacer	8
7	32128-23	Nut - Flange Lock	20
8	32128-46	Nut - Lock	8
9	30-8770	Washer - Flat	8
10	69-7170	Clevis - Deck	2
11	3233-29	Bolt - Carriage	2
12	3233-28	Bolt - Carriage	6
13	302-2	Fitting - Grease	2
14	3296-68	Nut - Lock	2
15	71-2610	Shaft - Deck Pivot	2
16	69-6470	Bushing - Flange	20
17	32121-110	Pin - Roll	2
18	69-6420	Bar - Lift L.H. (Incl. Ref. #16)	1
*	69-6480	Bar - Lift R.H. (Incl. Ref. #16)	1
19	13-5059	Arm - Outside Castor (Incl. Ref. #16, 34 & 41)	2
20	13-5009	Deck - Wing L.H. (Incl. Ref. #27, 36, 37 & 39)	1
*	13-4999	Deck - Wing R.H. (Incl. Ref. #27, 36, 37 & 39	1
21	69-6730	Skid	4
22	3233-9	Bolt - Carriage	12
23	323-15	Screw - Cap Hex. Hd.	32
24	5-0838	Washer - Flat	32
25	32128-43	Nut - Lock	32
26	327-17	Screw Cap Hex. Hd.	8
27	43-8480	Decal - Danger	2
28	251-332	Spacer - Bearing	8
29	251-321	Bearing - Castor	16
30	69-6930	Castor Wheel Assembly (Incl. Ref. #28, 29 & 34)	8
31	3296-53	Nut - Lock	8
32	75-9670	Fork - Castor	8
33	69-6860	Washer - Thrust	28
34	302-5	Fitting - Grease	16
35	69-1510	Spacer - Castor	48
36	69-0890	Decal - Belt Routing L.H.	1
*	69-0900	Decal - Belt Routing R.H.	1
37	66-1340	Decal - Danger	2
38	69-0880	Decal - Torque	2
39	67-5360	Decal - Danger	4
40	256-304	Washer - Thrust	4
41	77-0950	Washer - Castor	8

*Not Illustrated



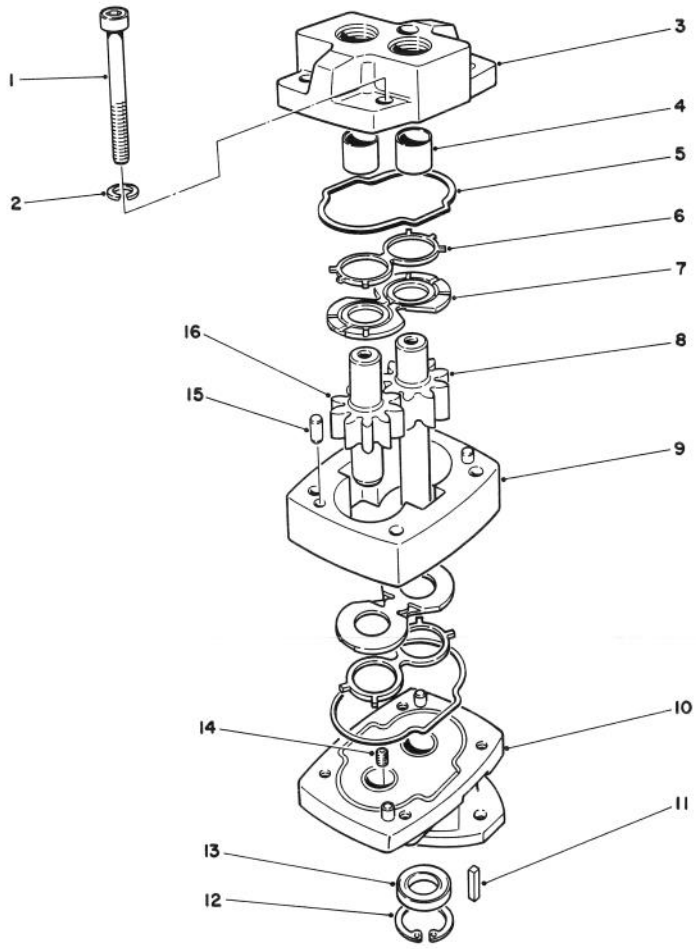
T-0336-90

WING DECK MODEL NO. 30591 L.H. & 30593 R.H. DRIVE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	69-6800	Cover - Inner L.H.	1
*	69-6820	Cover - Inner R.H.	1
2	3234-12	Screw - Hex. Washer Hd.	8
3	69-6360	Plate - Motor Mounting L.H.	1
*	69-6340	Plate - Motor Mounting R.H.	1
4	32128-21	Nut - Flange Lock	12
5	237-81	Seal - O-Ring	4
6	340-8	Fitting - Hydraulic Straight (Incl. Ref. #5 & 7)	4
7	237-65	Seal - O-Ring	4
8	76-2730	Hose - Hydraulic	4
9	76-2740	Hose - Hydraulic	2
10	237-22	Seal - O-Ring	2
11	340-2	Fitting - Hydraulic Straight (Incl. Ref. # 10 & 12)	2
12	237-42	Seal - O-Ring	2
13	69-2780	Motor - Hydraulic	2
14	63-0660	Pulley - Wing Deck Drive	2

Ref. No.	Part No.	Description	No. Used
15	23-1640	Bushing - Taper Lock (Incl. Ref. #26)	2
16	69-6810	Cover - Outer L.H.	1
*	69-6830	Cover - Outer R.H.	1
17	3269-25	Rivet - Pop	16
18	69-6870	Plate - Magnet	8
19	3296-2	Nut - Lock	16
20	69-6260	Magnet - Cover	8
21	32105-1	Screw - Pan Hd.	16
22	3233-30	Bolt - Carriage	6
23	69-6960	Spacer - Idler	6
24	63-1540	Pulley - Idler	6
25	32128-23	Nut - Flange Lock	6
26		Screw - Set	4
27	3231-28	Bolt - Carriage	4
28	71-4260	Decal - H.O.C.	2
*	76-2060	V-Belt	6
*	3290-378	Tie - Cable	24

*Not Illustrated

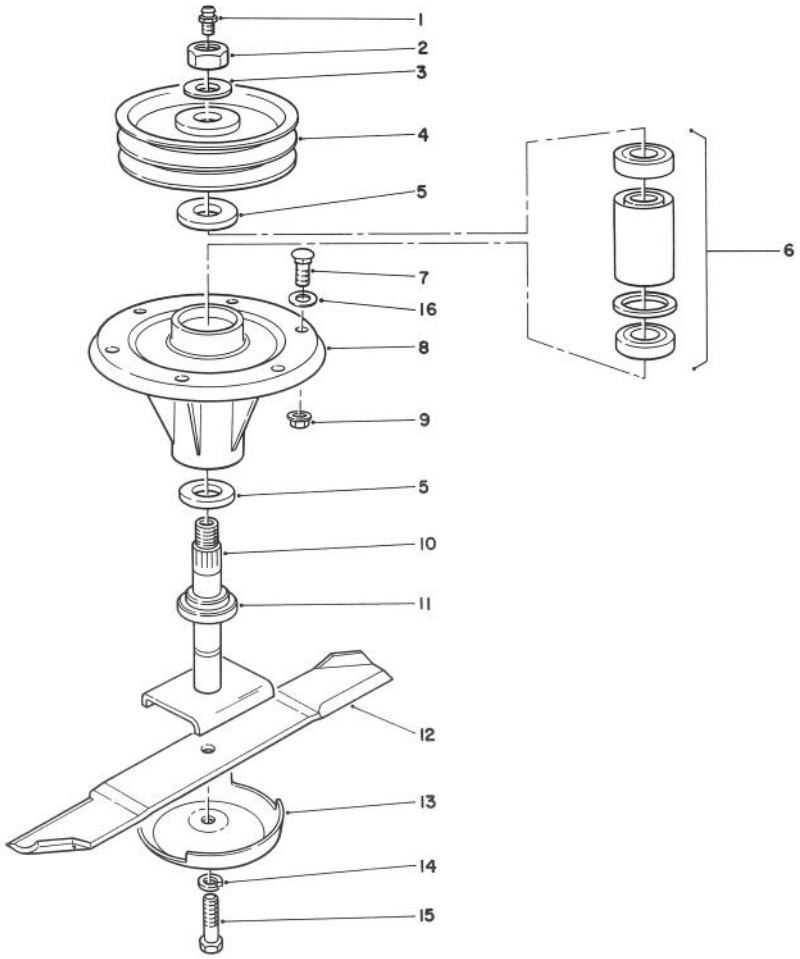


T-0386-90

HYDRAULIC MOTOR ASSEMBLY NO. 69-2780

Ref. No.	Part No.	Description	No. Used
1	69-2890	Screw - Hex. Socket Hd.	4
2	69-2910	Washer	4
3	69-2800	Cover Assembly (Incl. Ref. #4)	1
†4		Bushing - Sleeve	4
5	69-2920	Seal - Square	2
6	69-2850	Seal - Load	2
7	69-2840	Plate - Wear	2
8	69-2830	Shaft/Gear - Drive	1
9	69-2810	Plate - Gear	1
10	69-2790	Body Assembly (Incl. Ref. #4 & 14)	1
11	69-2880	Key - Square	1
12	69-2930	Ring - Retaining	1
13	69-2860	Seal - Oil	1
14	69-2900	Plug - Pipe	2
15	69-2870	Pin - Dowel	4
16	69-2820	Shaft/Gear - Idler	1
*	69-2940	Repair Kit (Incl. Ref. #5, 6 & 13)	1

*Not Illustrated
†Not serviced separately.



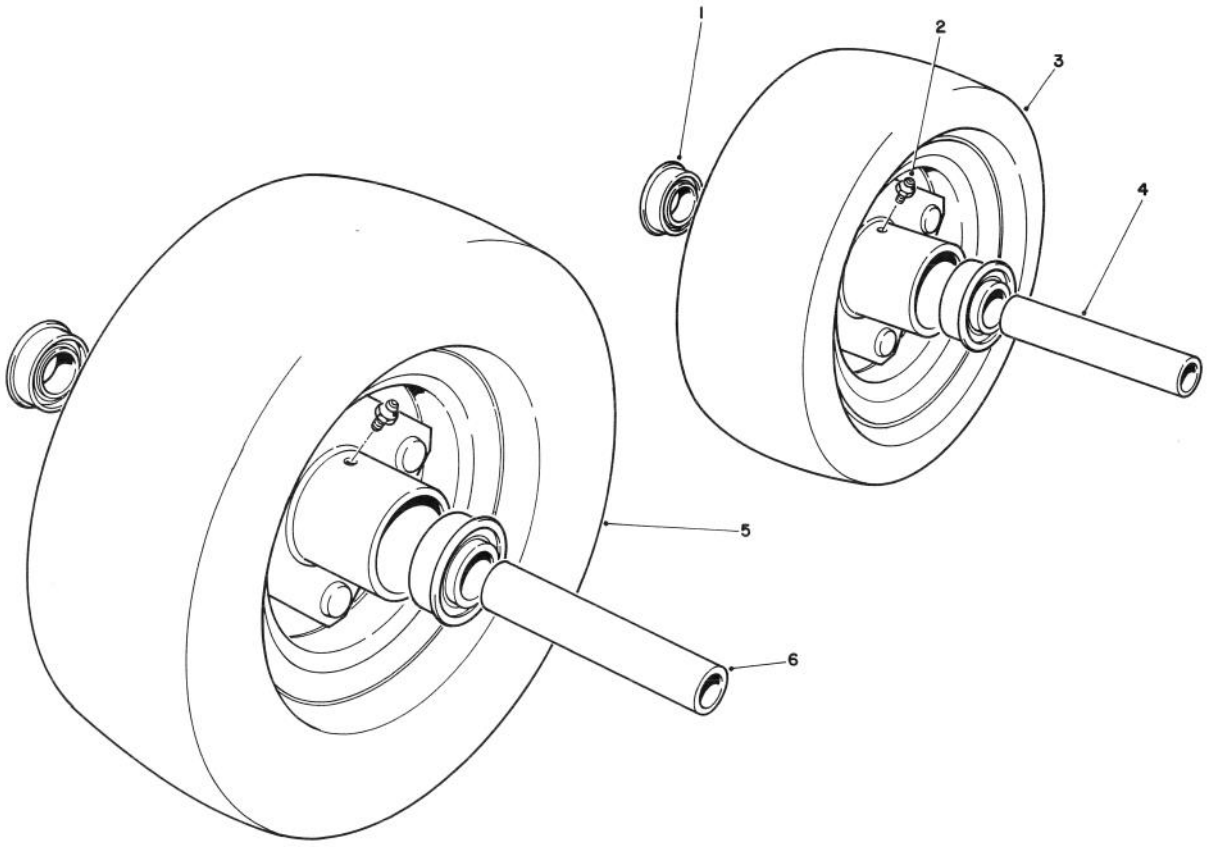
T-0337-90

SPINDLE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	302-2	Fitting - Grease Str.	1
*	302-10	Fitting - Grease 45° (Used only on wing deck center & inside spindles)	1
2	3296-49	Nut - Lock	1
3	3-8514	Washer	1
4	69-8390	Pulley - Spindle	1
5	253-154	Seal - Wave	2
6	71-2530	Bearing Assembly	1
7	3231-22	Bolt - Carriage	6

Ref. No.	Part No.	Description	No. Used
8	69-1530	Housing - Spindle	1
9	32128-21	Nut - Flange Lock	6
10	69-6760	Shaft - Spindle	1
11	69-6950	Spacer - Spindle	1
12	69-6920	Blade - 20"	1
13	67-7561	Cup - Anti Scalp	1
14	3253-8	Washer - Lock	1
15	51-4060	Bolt - Blade	1
16	3256-24	Washer - Flat	A/R

*Not Illustrated

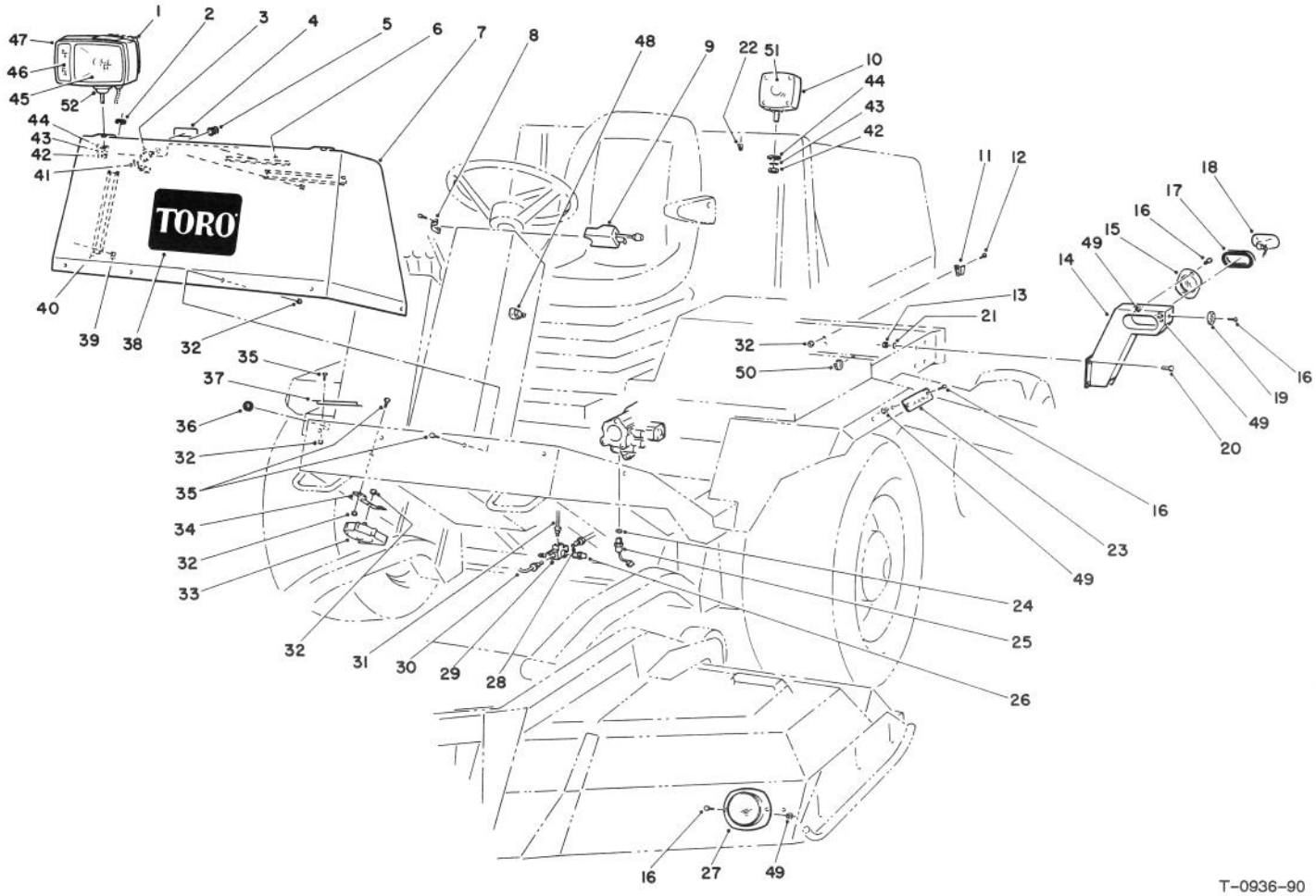


T-0992-90

10" & 13" SEGMENTED TIRE ASSEMBLIES (Optional)

Ref. No.	Part No.	Description	No. Used
1	251-321	Bearing - Ball	2
2	302-5	Fitting - Grease	1
3	76-1880	10" Segmented Tire Assy. (Incl. Ref. #1, 2 & 4)	1

Ref. No.	Part No.	Description	No. Used
4	251-332	Spacer - Inner	1
5	76-1890	13" Segmented Tire Assy. (Incl. Ref. #1, 2 & 6)	1
6	251-333	Spacer - Inner	1



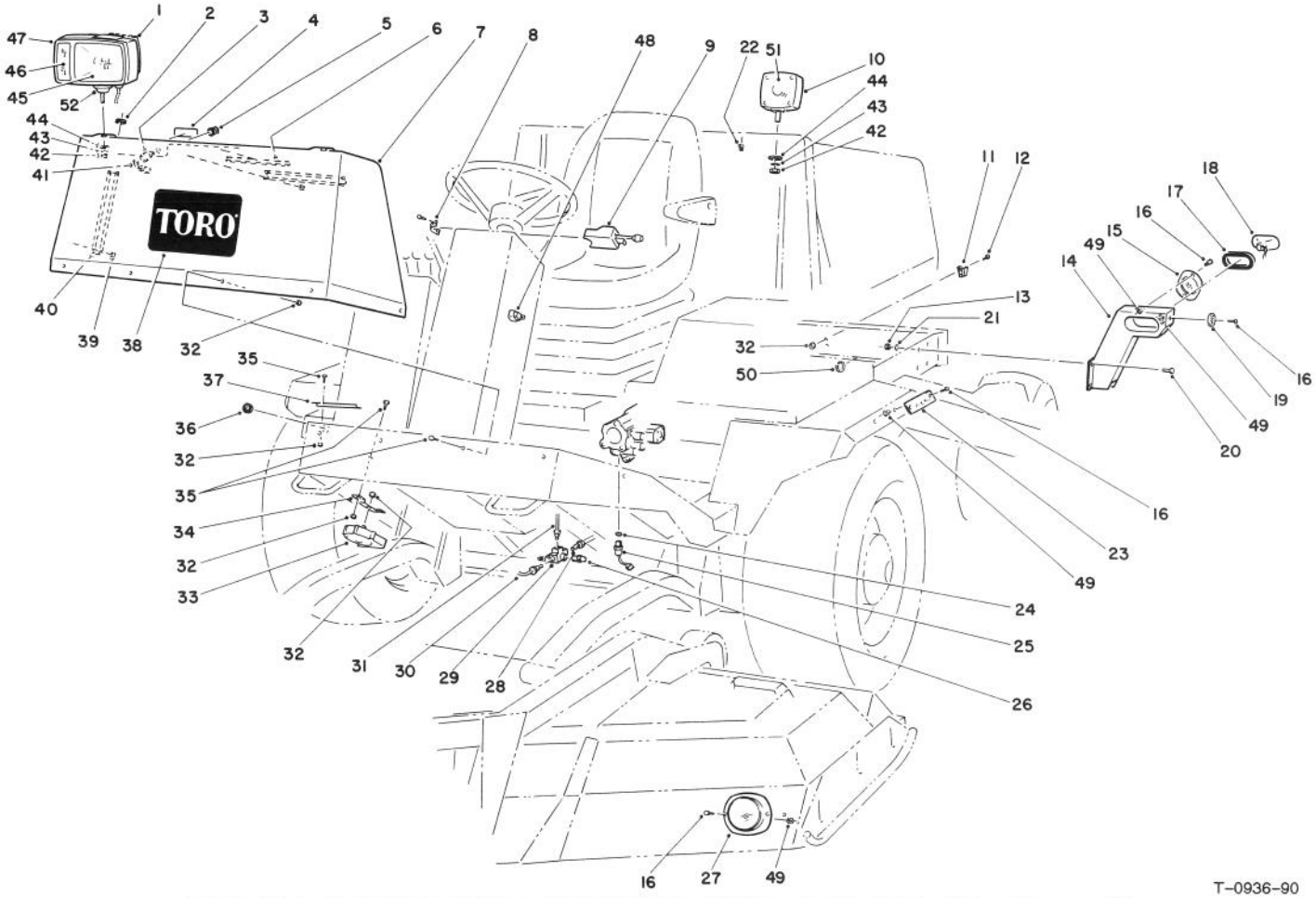
T-0936-90

ROAD LIGHT KIT MODEL NO. 30585 (Optional)
CHASSIS COMPONENTS

Ref. No.	Part No.	Description	No. Used
1	75-9740	Headlight Assembly R.H. (Incl. Ref. #42, 43, 45-47)	1
*	75-9730	Headlight Assembly L.H. (Incl. Ref. #42, 43, 45-47)	1
*†		Bulb - Flasher (GE #1157)	4
2	237-41	Grommet	2
3	18-2830	Switch - Horn (Incl. Ref. #5)	1
4	74-2330	Decal - Horn	1
5		Cover - Horn Switch	1
6	66-8110	Trim - Shroud	1
7	74-2320	Front Shroud Assembly (Incl. Ref. #4 & 38)	1
8		Clamp - Signal Controller	1
9	63-4460	Signal Controller Assembly (Incl. Ref. #8 & 48)	1
10	38-6190	Flashing Lamp Assembly (Incl. Ref. #42-44 & 51)	2
*†		Bulb - Flasher (GE #1156)	2
11	38-6200	Socket - S.M.V.	1
12	3230-22	Bolt - Carriage	2
13	3217-7	Nut - Hex.	8

Ref. No.	Part No.	Description	No. Used
14	74-2460	Arm - Light L.H.	1
*	74-2480	Arm - Light R.H.	1
15	74-2370	Reflector - 3" Red	2
16	32144-1	Screw - Cap Hex. Hd.	14
17	74-2360	Grommet	2
18	74-2350	Taillight	2
19	74-2390	Reflector - 2" Red	2
20	3234-11	Screw - Cap Hex. Hd.	8
21	3253-5	Washer - Lock	8
22	249-47	Clip - Wire	4
23	74-2540	Reflector - Amber	2
24	237-42	Seal - O-Ring	1
25	74-2420	Switch - Brake (Incl. Ref. #24)	1
26	218-242	Switch - Brake	1
27	74-2371	Reflector - 3" Amber	2
28	74-2530	Brake Line Assembly Front	1
29	218-243	Tee - Brake Line	1
30	74-2520	Brake Line Assembly R.H.	1
31	74-2510	Brake Line Assembly L.H.	1
32	32128-20	Nut - Flange Lock	13
33	19-6050	Horn	1
34	18-2820	Bracket - Horn	1
35	3234-7	Screw - Hex. Flange Hd.	11

*Not Illustrated
†Obtain Locally

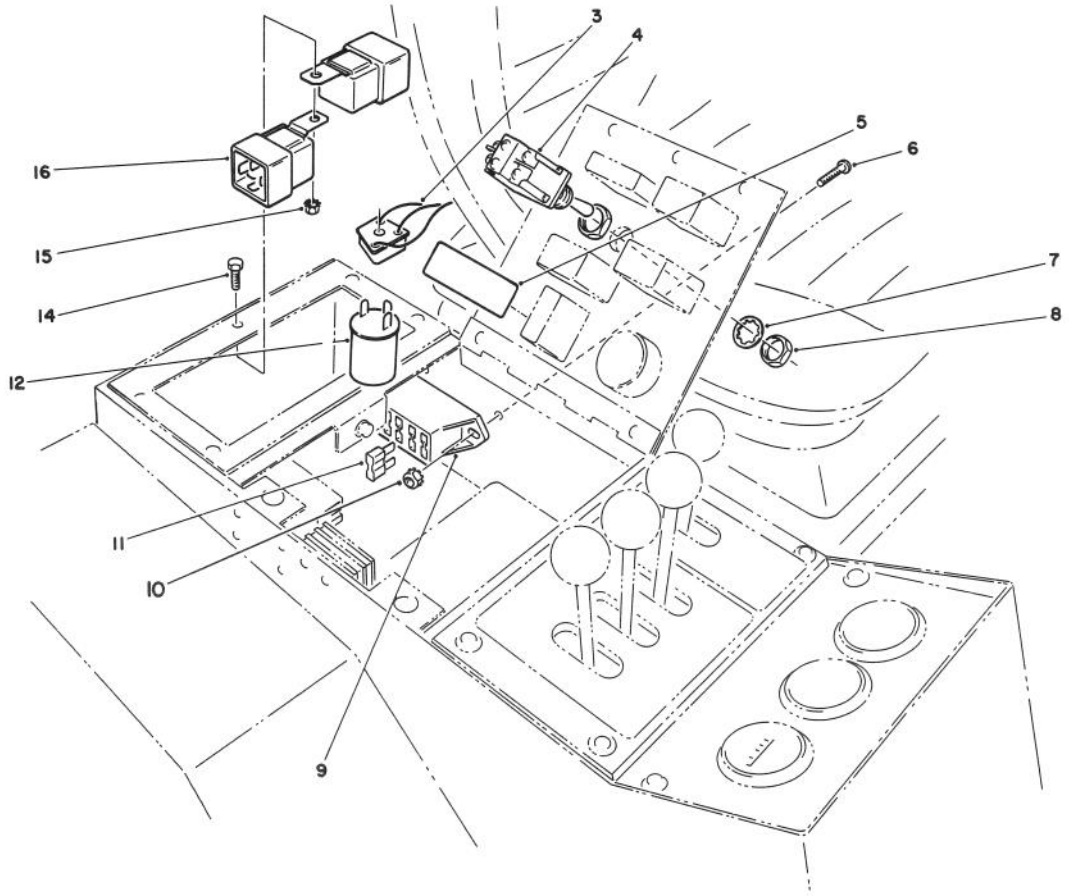


ROAD LIGHT KIT MODEL NO. 30585 (Optional)
CHASSIS COMPONENTS (Continued)

Ref. No.	Part No.	Description	No. Used
36	240-3	Grommet	1
37	74-2400	Cover - Wire	1
38	67-7310	Decal - TORO	1
39	32149-2	Nut - Lock	8
40	74-2550	Cover - Wire	2
41	72-3790	Wire Assembly	1
42	3219-5	Nut - Hex.	4
43	3253-7	Washer - Lock	4
44	3256-6	Washer - Flat	4
45	75-9750	Bulb - Sealed Beam (GE #6054 HP)	2
46	75-9760	Lens - Amber	2

Ref. No.	Part No.	Description	No. Used
47	75-9770	Bezel - Headlight	2
48	63-7590	Relay	1
49	32149-7	Nut - Keps	14
50	3290-378	Tie - Cable	30
51	218-587	Lens - Amber	4
52	80-4870	Adaptor - Ferrule	2
*	237-88	Grommet (Used when mounting the flashing lamps to a ROPS kit with a sun shield)	2

*Not Illustrated
†Obtain Locally



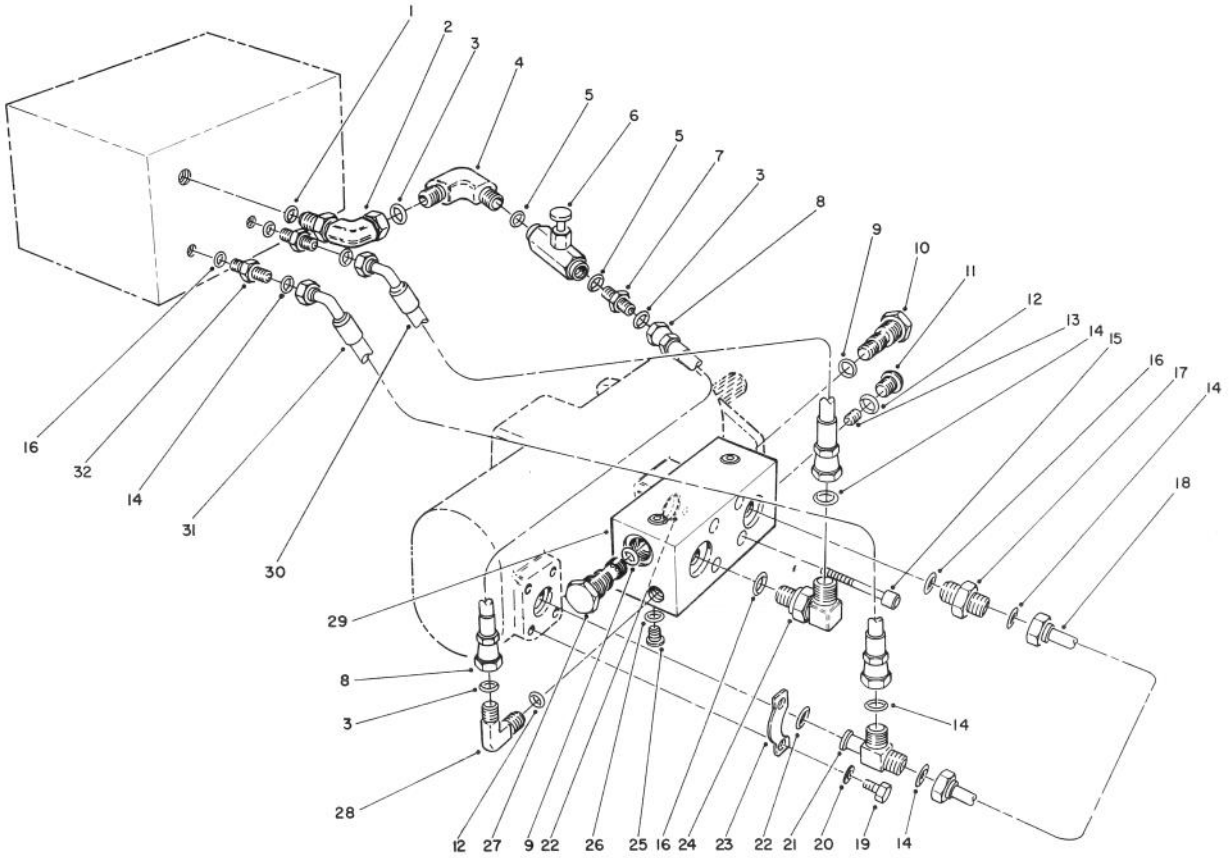
T-0937-90

ROAD LIGHT KIT MODEL NO. 30585 (Optional)
CONTROL BOX COMPONENTS

Ref. No.	Part No.	Description	No. Used
3	74-2410	Harness - Wire (Incl. Ref. #9 & 11)	1
4	74-2300	Switch - Toggle (Incl. Ref. #7 & 8)	1
5	74-2340	Decal - Fuse	1
6	32105-13	Screw - Mach. Round Hd.	2
7		Washer - Lock	1
8		Nut - Hex.	2

Ref. No.	Part No.	Description	No. Used
9	67-7160	Block - Fuse	1
10	32149-7	Nut - Keps	2
11	218-581	Fuse - 15A	4
12	218-456	Relay - Flasher	2
14	321-2	Screw - Cap Hex. Hd.	1
15	32149-2	Nut - Keps	1
16	63-7590	Relay	2
*	74-2430	Tubing - Shrink	1

*Not Illustrated

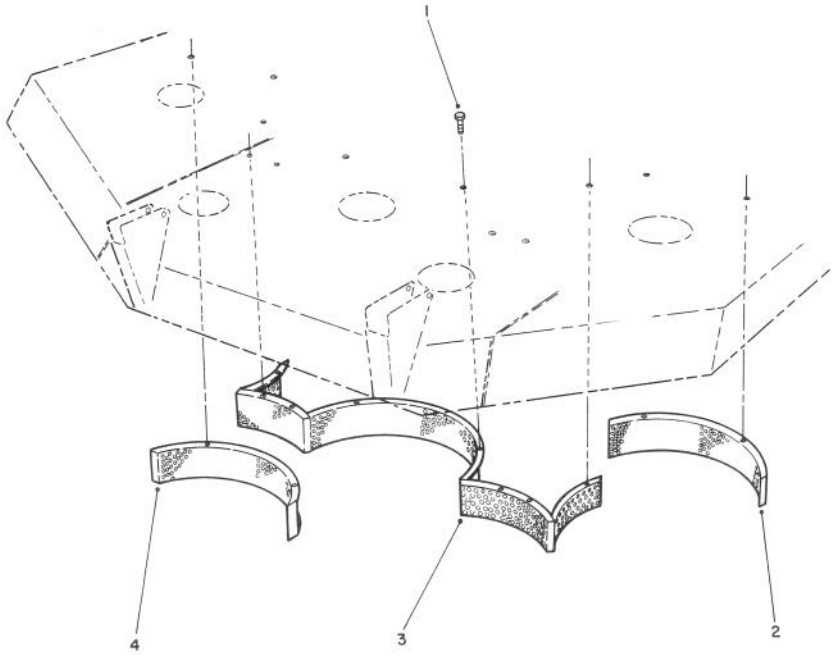


T-1145-90

FLOW COMBINE KIT MODEL No. 30586

Ref. No.	Part No.	Description	No. Used
1	237-79	O-Ring	1
2	340-18	Fitting	1
3	237-22	O-Ring	2
4	340-110	Fitting - Swivel	1
5	237-42	O-Ring	2
6	76-2810	Valve - Needle	1
7	340-2	Fitting	1
8	77-5130	Hose - Hydraulic	1
9	69-4270	Seal Kit	1
10	69-4190	Cartridge - Logic, N.C.	1
11	353-990	Plug - Hex Socket	1
12	237-78	O-Ring	2
13	69-4130	Plug - Orifice	2
14	237-58	O-Ring	2
15	3274-20	Screw - Cap, Socket Hd.	4
16	237-81	O-Ring	2
17	340-9	Fitting	1

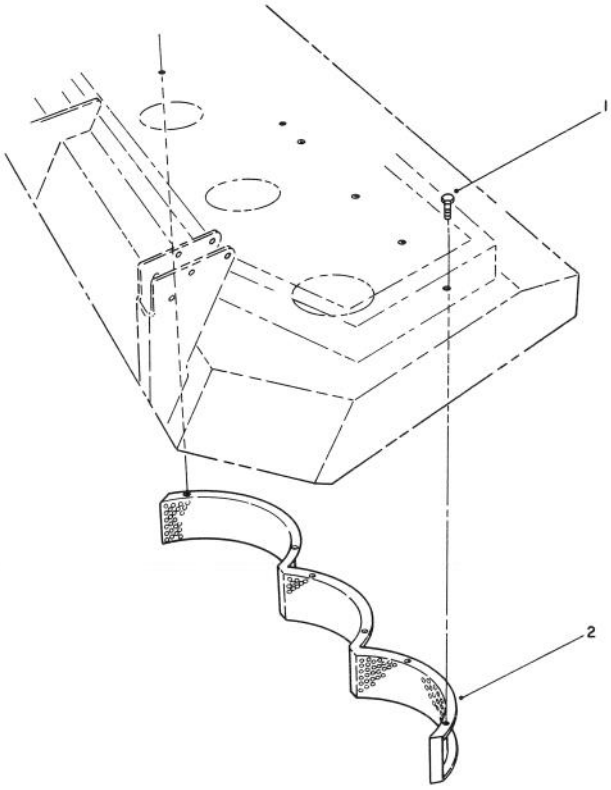
Ref. No.	Part No.	Description	No. Used
18	74-2610	Tube Assembly - Hydraulic	1
19	323-7	Screw - Cap, Hex. Hd.	4
20	3253-21	Washer - Lock	4
21	74-2590	Fitting - Tee	1
22	340-135	O-Ring	1
23	353-992	Fitting - Flange	2
24	340-142	Fitting	1
25	353-991	Plug - Hex. Socket	4
26	237-156	O-Ring	4
27	74-2560	Cartridge - Logic, N.C.	1
28	340-97	Fitting	1
29	74-2580	Valve - Flow Combining (Incl. Ref. #9-13, 22, & 25-27)	1
30	77-0940	Hose Assembly - Hydraulic	1
31	69-5590	Hose Assembly (Existing)	1
32	340-9	Fitting (Existing)	1



T-1146-90

MULCHER KIT – FRONT DECKS (Model No. 30588)

Ref. No.	Part No.	Description	No. Used
1	323-5	Screw – Cap, Hex. Hd.	12
2	77-0740	Screen – Deck, L.H.	1
3	77-0730	Screen – Deck, Center	1
4	77-0750	Screen – Deck, R.H.	1



T-1147-90

MULCHER KIT – REAR WING DECKS (Model No. 30588)

Ref. No.	Part No.	Description	No. Used
1	323-5	Screw - Cap, Hex. Hd.	12
2	77-0720	Screen - Mulcher (R.H. Shown)	2

Ref. No.	Part No.	Description	No. Used

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