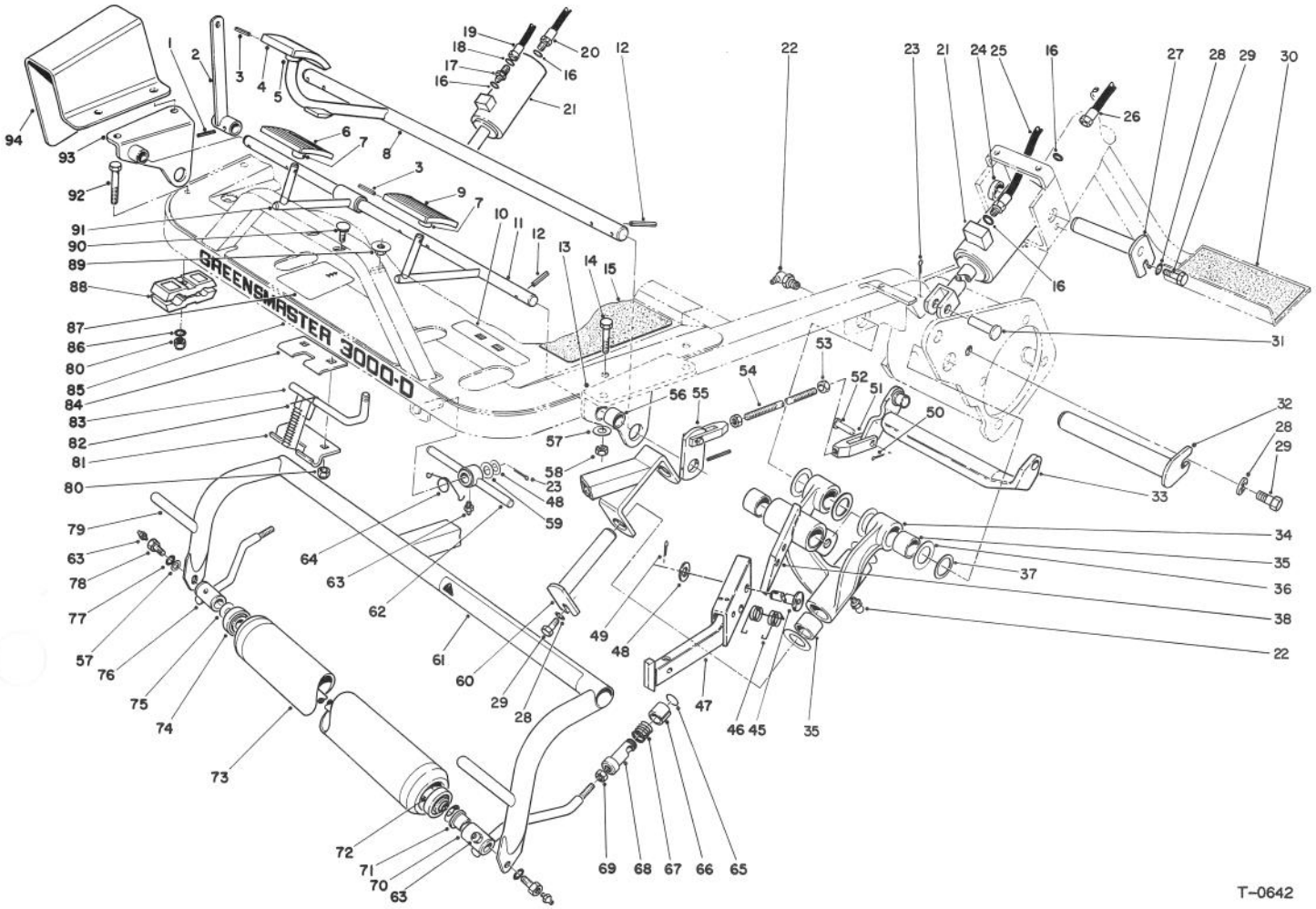
FORM NO. 3314-372

TORO®

MODEL NO. 04375-10001 & UP
MODEL NO. 04405-10001 & UP
MODEL NO. 04408-10001 & UP
MODEL NO. 04450-10001 & UP
MODEL NO. 04468-10001 & UP

PARTS CATALOG

GREENSMASTER® 3000D

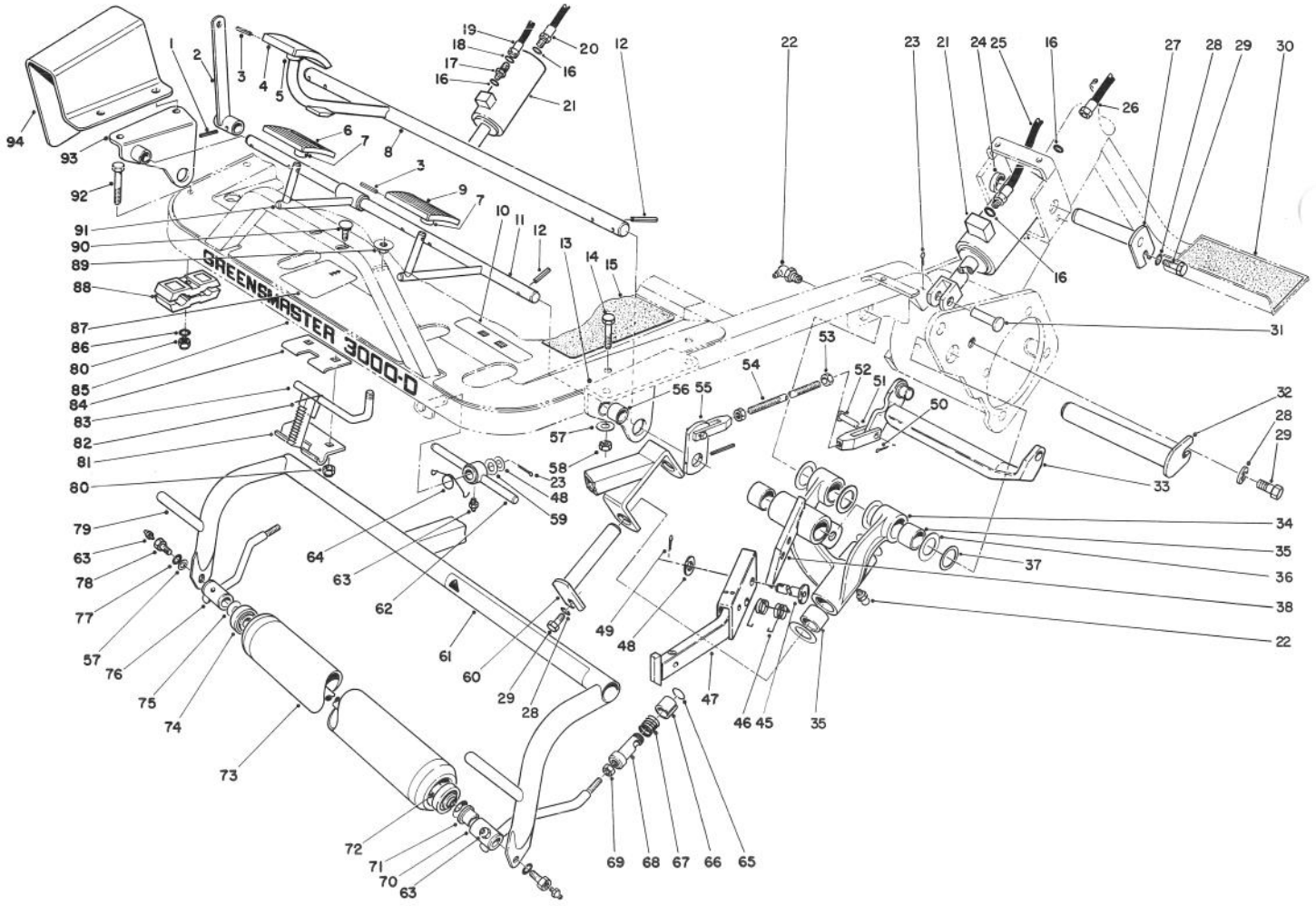


FOOT PEDALS & ROLLER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	32121-6	Pin - Roll	1
2	49-6200	Lever - Cutting Control	1
3	32121-45	Pin - Roll	3
4	49-6170	Foot Pad - Brake	1
5	49-6150	Foot Pedal - Brake	1
6	10-8250	Foot Pad - Mow	1
7	10-6540	Foot Pedal	2
8	49-6130	Brake Shaft	1
9	10-8240	Foot Pad - Lift	1
10	51-0050	Decal - Mow/Lift	1
11	49-6180	Shaft - Cutting Control	1
12	32121-35	Pin - Roll	8
13	49-6090	Lift Pivot Bracket - L.H. (Inc. Ref. #56)	1
14	323-10	Screw - Cap, Hex Hd.	4
15	49-6120	Pad - Footrest	1
16	237-78	O-Ring	4
17	340-92	Fitting - Straight (Incl. Ref. #16 & 18)	1
18	237-21	O-Ring	1
19	63-3950	Hose - Hydraulic	1
20	63-3880	Hose - Hydraulic	1
21	72-9720	Cylinder - Hydraulic, Front	2
22	302-60	Fitting - Grease	4
23	3272-11	Pin - Cotter	3
24	74-3730	Spacer - Cylinder	2
25	63-3850	Hose - Cylinder	1
26	63-3890	Hose - Cylinder	1
27	10-6060	Pin - Cylinder, Pivot	2
28	3253-4	Washer - Lock	5
29	322-1	Screw - Cap, Hex. Hd.	5
30	62-2660	Pad - Step	1
31	283-8	Pin - Clevis	2
32	10-6110	Pin - Hinge	2

TPS

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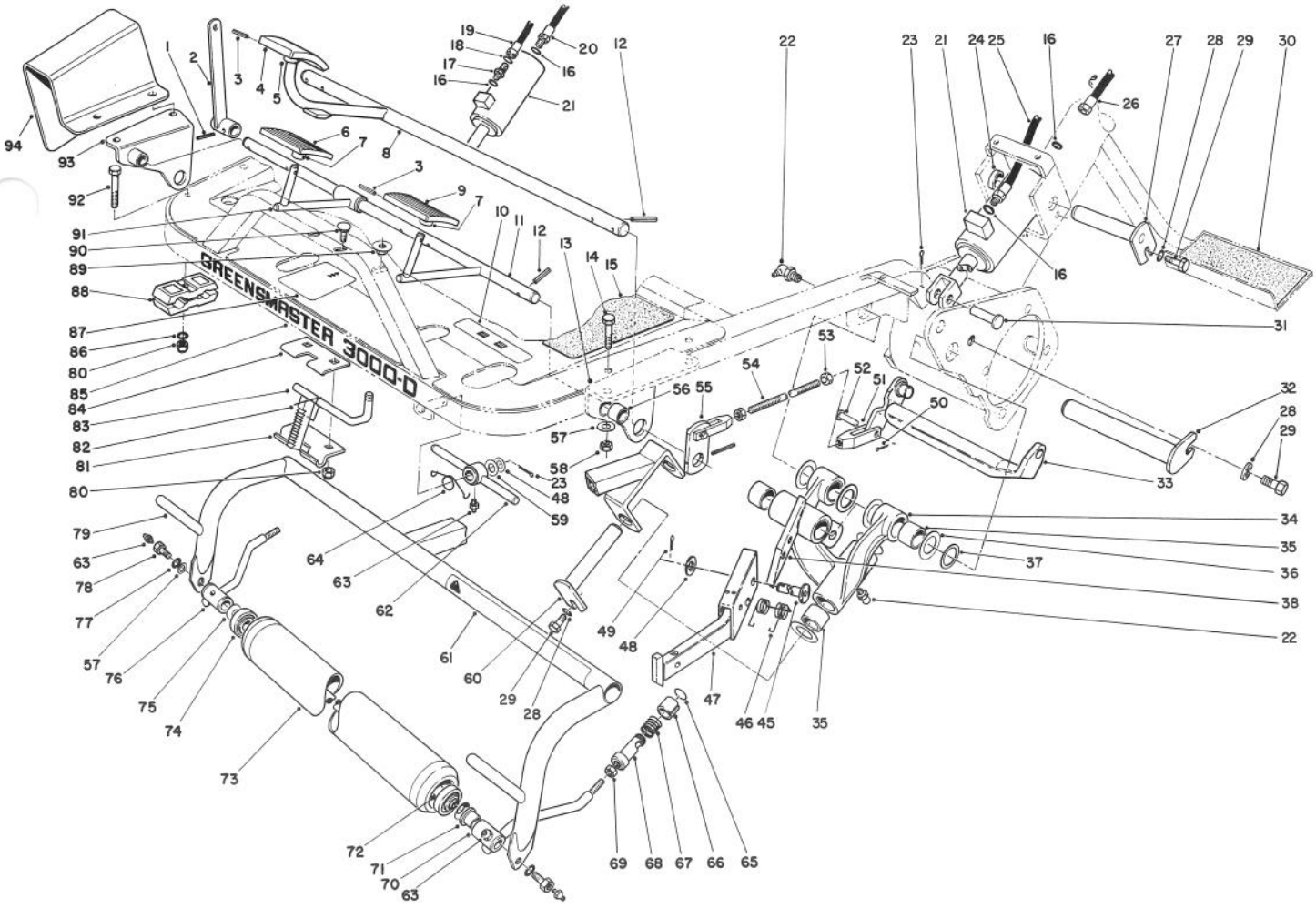


T-0642

FOOT PEDALS AND ROLLER ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
33	71-1510	Arm - Brake	1
34	10-7820	Pivot Hinge Assembly (Incl. Ref. #35)	1
35	3-0348	Bushing - Sleeve	6
36	10-8110	Washer - Thrust	6
37	5-1226	Washer - Shim	2
38	62-2460	Lift Arm Assembly - LH (Incl. Ref. #35)	1
45	63-8750	Pin - Pivot	1
46	57-7650	Spring - Torsion	1
47	62-2390	Bar - Lift, LH	1
48	3256-26	Washer - Flat	2
49	3272-12	Pin - Cotter	1
50	3272-6	Pin - Cotter	4
51	282-2	Yoke	4
52	283-1	Pin - Clevis	4
53	3220-2	Nut - Jam	4
54	27-2270	Rod - Adjustment, Brake	2
55	10-8100	Strap - Shaft, Brake	2
56	256-32	Bushing - Sleeve	2
57	3256-24	Washer - Flat	10
58	3296-59	Nut - Lock	4
59	3290-221	Washer - Spring	1
60	10-6090	Pin - Pivot	1
61	62-5070	Decal - Warning	1
62	12-9050	Pivot - Lift	1

Ref. No.	Part No.	Description	No. Used
63	302-5	Fitting - Grease	13
64	10-9090	Spring - Torsion	1
65		Ring - Retaining	6
66		Sleeve	6
67		Spring	6
68	8-7710	Ball Joint Receiver Assy. (Incl. Ref. #65-67)	6
69	3220-3	Nut - Jam	6
70	52-2740	Pull Arm Assembly - LH (Incl. Ref. #71)	3
71	3-1506	Bushing - Flange	12
72	21-8470	Shaft - Yoke, Roller	3
73	52-2720	Roller Assembly (Incl. Ref. #74)	3
74	251-141	Bearing - Ball	6
75	3290-317	Washer - Spring	6
76	52-2750	Pull Arm Assembly - RH (Incl. Ref. #71)	3
77	3253-21	Washer - Lock	8
78	11-0160	Screw Assy. - Shaft, Roller (Incl. Ref. #63)	6
79	47-5970	Frame - Pull, LH	1
80	3296-16	Nut - Lock	3
81	10-7890	Hinge - Lower, Park. Brake	1
82	10-8140	Spring - Latch, Brake	1
83	10-7850	Latch - Brake, Parking	1

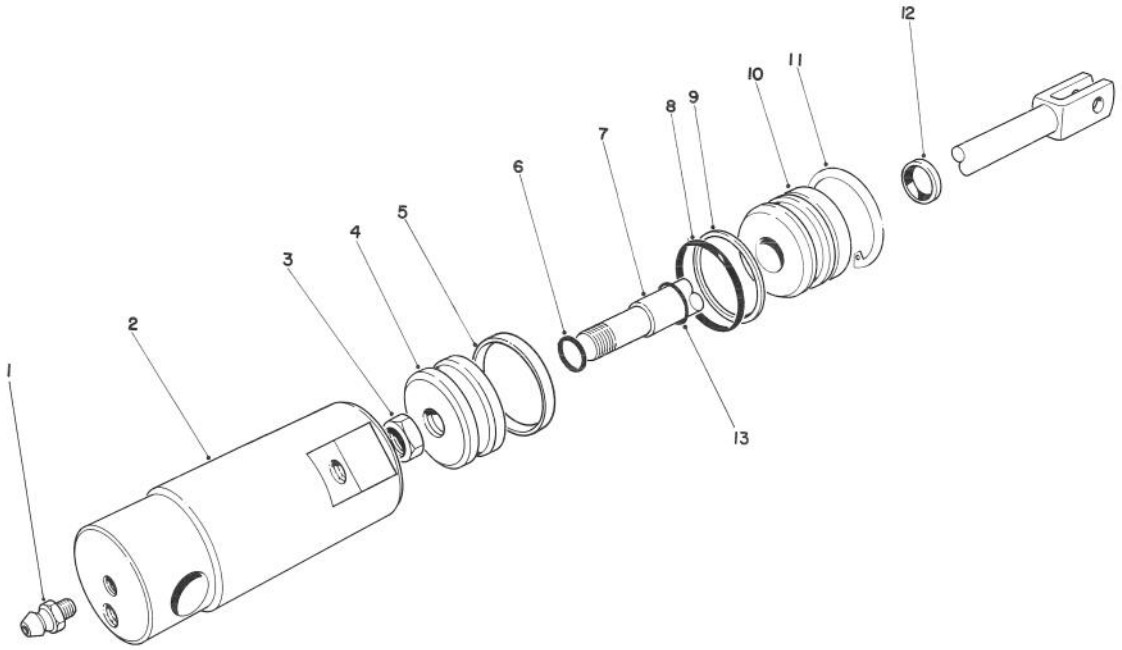


T-0642

FOOT PEDALS AND ROLLER ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
84	10-7880	Hinge - Upper, Park. Brake	1
85	74-3860	Decal - Greensmaster	1
86	3256-3	Washer - Flat	1
87	27-2830	Decal - Brake, Parking	1
88	56-7970	Clamp - Tube	2
89	32141-111	Nut - Lock, Flange Hd.	1

Ref. No.	Part No.	Description	No. Used
90	3229-22	Bolt - Carriage	2
91	10-6300	Pedal - Foot	1
92	321-23	Screw - Cap, Hex. Hd.	1
93	49-6070	Bracket - Lift, Pivot RH (Incl. Ref. #56)	1
94	49-6110	Guard - Rod, Transfer	1



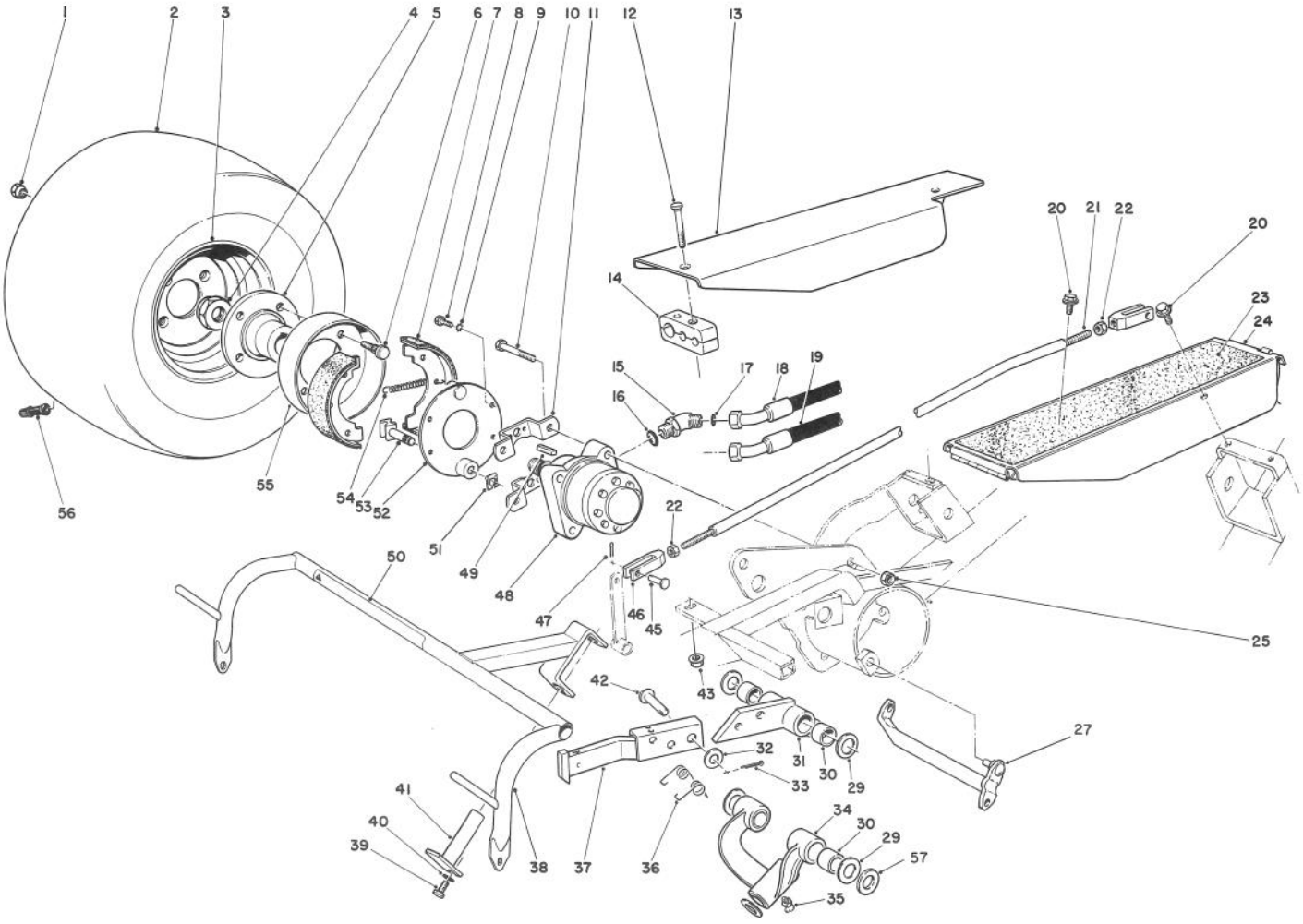
T-0292

FRONT HYDRAULIC CYLINDER NO. 72-9720

Ref. No.	Part No.	Description	No. Used
1	302-2	Fitting - Grease	2
2		Barrel Assembly	1
3	32152-10	Nut-Lock	1
4	52-1990	Piston	1
5		Uniring	1
		O-Ring	1
7	52-1980	Shaft with Clevis	1
8		O-Ring	1

Ref. No.	Part No.	Description	No. Used
9		Washer - Backup	1
10	65-4860	Head	1
11	32120-8	Ring - Retaining, Internal	1
12		Dust Seal	1
13		Sea] Polypak	1
*	72-9680	Seal Repair Kit (Incl. Ref.#5, 6, 8, 9 & 12-13)	1

*Not Illustrated



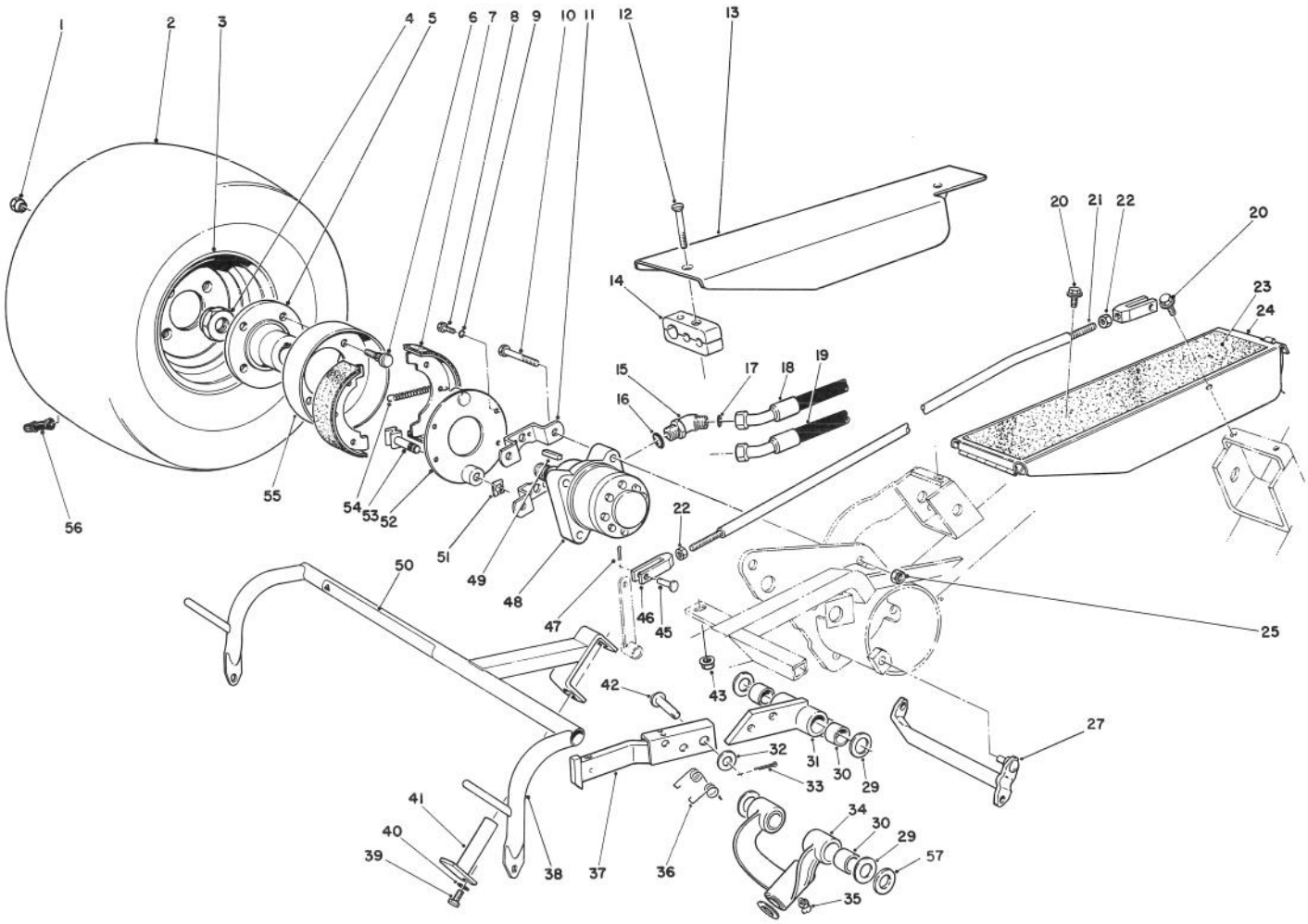
T-0644

WHEEL AND BRAKE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	242-50	Nut - Wheel	8
2	28-3680	Tire	2
*	231-124	Tire -Treaded (Optional)	2
*	232-37	Tube - Inner (Optional)	2
*	62-2580	Spacer (Optional) (For use with 231-124)	2
3	217-60	Rim	2
4	26-3790	Nut - Lock	2
5	10-6870	Hub - Wheel	2
6	10-6830	Stud - Drive Type	8
7	70-9840	Shoe & Lining Assembly	4
8	329-3	Screw - Cap, Hex. Hd.	8
9	3255-7	Washer - Lock, Ext. Tooth	8
10	325-11	Screw - Cap, Hex. Hd.	8
11	10-8000	Bracket - Brake	4
12	32108-100	Screw - Flat Head	3
13	49-5450	Plate - Cover	1
14	57-6140	Clamp - Tube, Side	4
15	340-14	Fitting - Hydraulic (Incl. Ref. #16 & 17)	4
16	237-80	O-Ring	4
17	237-65	O-Ring	4
18	70-8600	Hose - Hyd. Upper, RH	1
*	70-8610	Hose - Hyd. Upper, LH	1
19	70-7170	Hose - Hyd. Lower, RH	1
*	70-7150	Hose - Hyd. Lower, LH	1
20	3234-13	Screw - Hex. Flange Hd.	4
21	49-5430	Rod - Control	1

Ref. No.	Part No.	Description	No. Used
22	3220-2	Nut - Jam	2
23	10-8220	Pad - Tool Box	1
24	49-5410	Box - Tool	1
25	3296-23	Nut - Lock	8
27	71-1510	Lever - Brake	1
29	10-8110	Washer - Thrust	6
30	3-0348	Bushing - Sleeve	6
31	62-2440	Lift Arm Assembly RH (Incl. Ref. #30)	1
32	3256-26	Washer - Flat	1
33	3272-12	Pin - Cotter	1
34	10-7820	Pivot Hinge Assembly	1
35	302-60	Fitting - Grease	1
36	57-7650	Spring - Torsion	1
37	62-2420	Bar - RH Arm, Lift	1
38	47-5960	Frame - Pull, RH	1
39	322-1	Screw - Cap, Hex. Hd.	1
40	3253-4	Washer - Lock	1
41	10-6090	Pin - Pivot	1
42	63-8750	Pin - Pivot	1
43	3296-16	Nut - Lock	3
45	283-1	Pin - Clevis	2
46	282-2	Yoke	2
47	3272-6	Pin - Cotter	2
48	66-5292	Motor - Hydraulic (Incl. Ref. #49)	2
49	65-4640	Key - Square	2
50	62-5070	Decal - Warning	1

*Not Illustrated

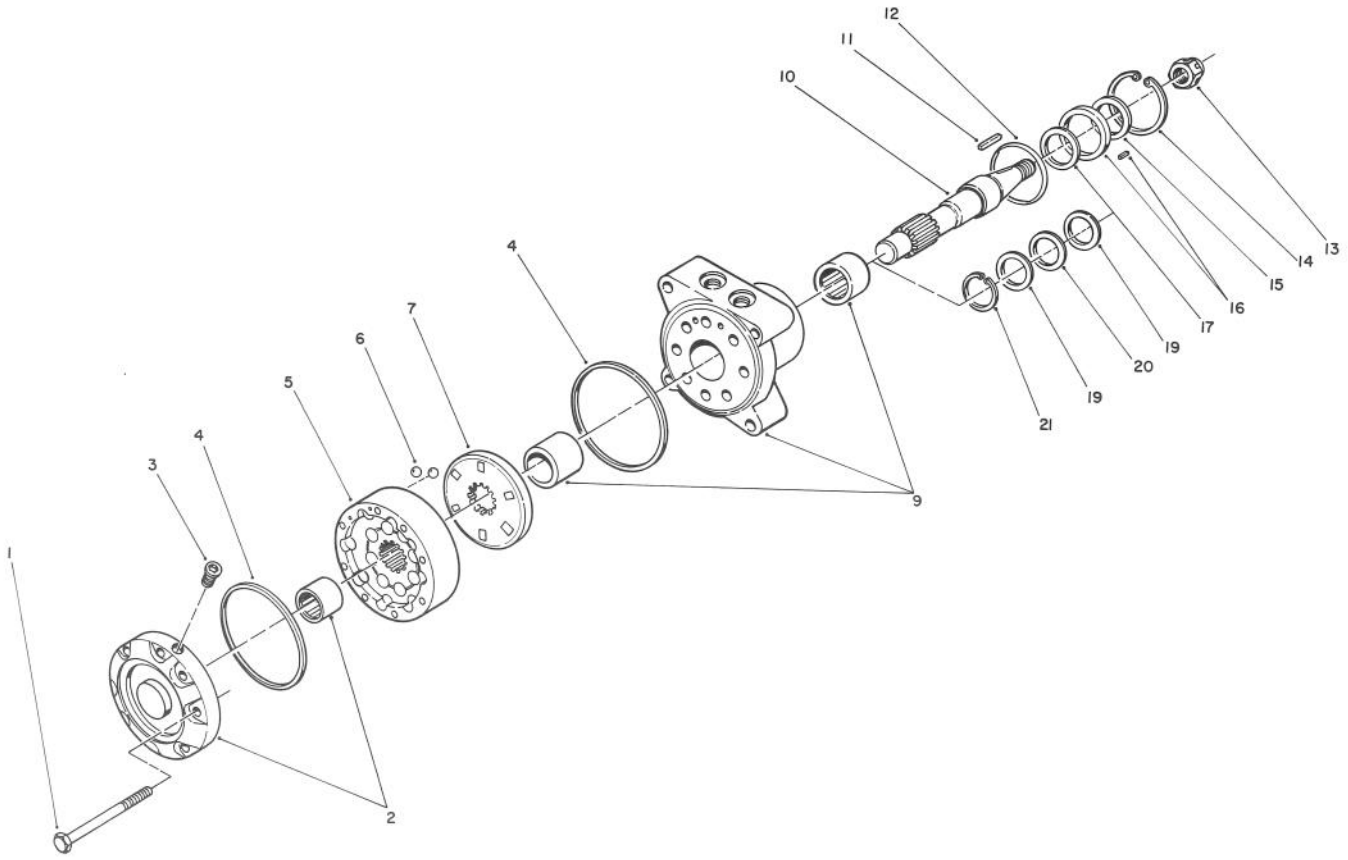


T-0644

WHEEL AND BRAKE ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
51	70-9850	Clip	2
52	70-9870	Plate - Support, Brake	2
53	70-9860	Cam - Brake	2
54	70-9880	Spring - Extension	4

Ref. No.	Part No.	Description	No. Used
55	10-6820	Brake Drum Assembly (Incl. Ref. #5 & 6)	2
56	232-24	Valve Stem & Cap	2
57	5-1226	Washer - Shim	2



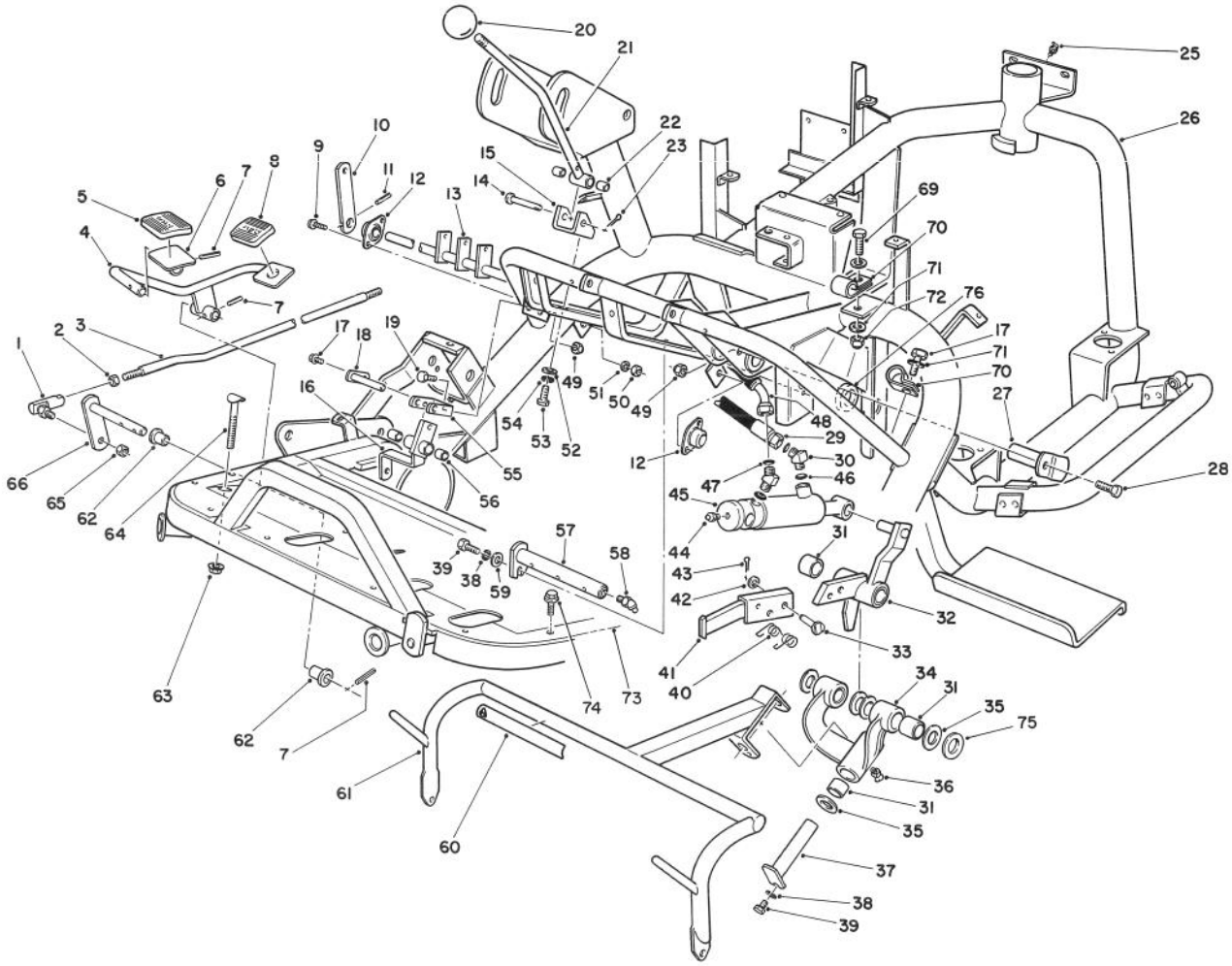
T-0274

HYDRAULIC DRIVE MOTOR NO. 66-5292

Ref. No.	Part No.	Description	No. Used
1	70-8160	Screw - Cap, Hex. Hd.	8
2		Cover & Bearing Assembly	1
3	65-4560	Plug - Hex. (Hollow)	1
4	65-4570	Seal - Square Ring	2
5	70-8180	IGR Assembly	1
6	65-4550	Valve - Ball, Check	2
7	70-8150	Plate - Valve	1
9	70-8140	Body & Bearing Assembly (Incl. Ref. #2)	1
10	70-8190	Shaft	1
11	65-4640	Key - Square	1
12	65-4620	O-Ring	1

Ref. No.	Part No.	Description	No. Used
13	65-4650	Nut - Slotted	1
14	65-4500	Seal - Snap Ring	1
†15		Seal - Dust	1
†16		Retainer - Pin	1
†17		Seal - Lip	1
*	65-4690	Seal/Retainer Assembly (Incl. Ref. #15-17)	1
19	65-4600	Washer - Thrust	2
20	65-4610	Bearing - Thrust	1
21	70-8170	Ring - Snap	1
*	65-4700	Body Seal Kit (Incl. Ref. #4, 12 & 15-17)	1

*Not Illustrated
†Not available from Toro as a replacement part.

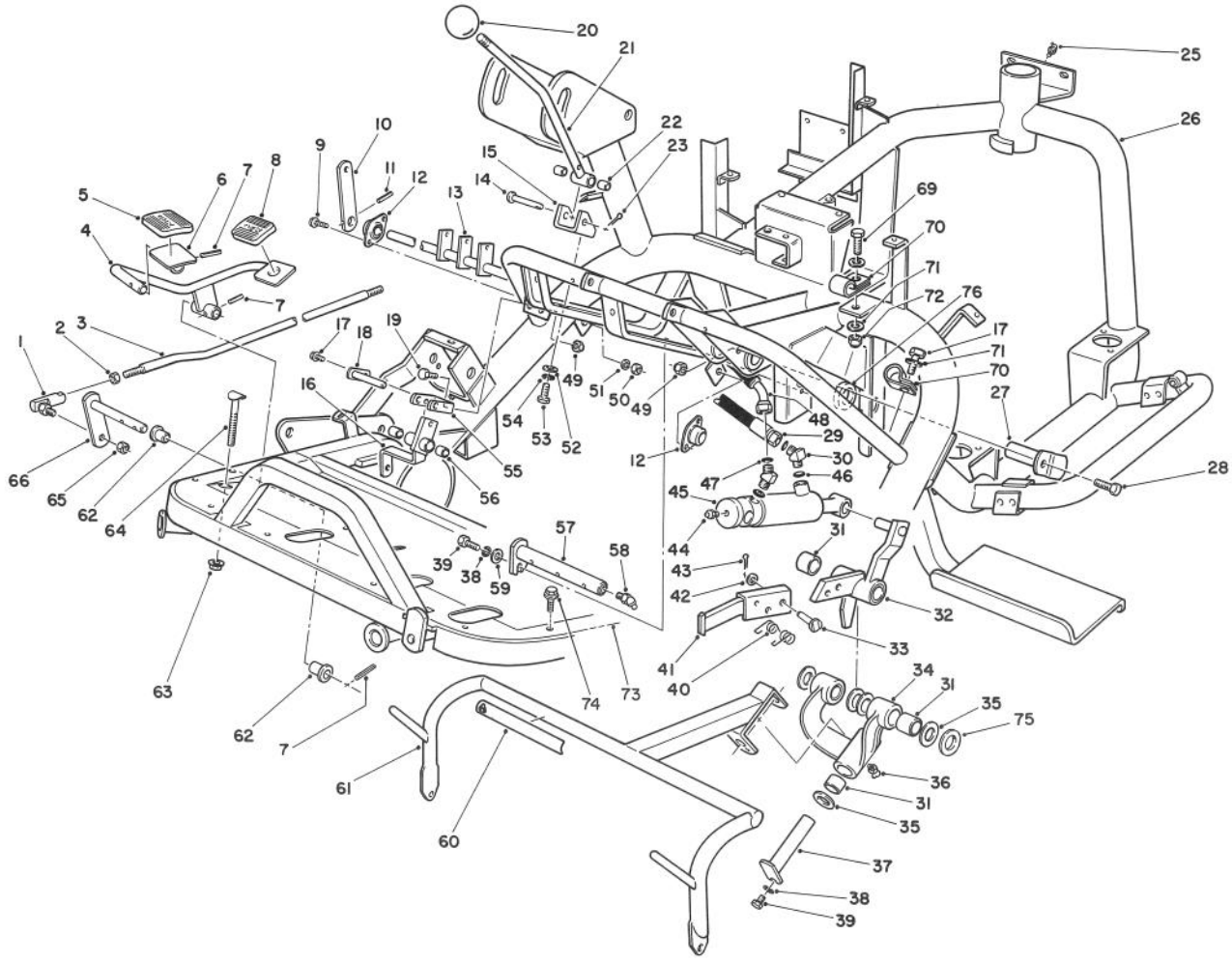


T-0641

FRAME ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	2411-32	Joint - Ball	2
2	3220-2	Nut - Jam	2
3	49-6320	Rod - Control, Traction	1
4	49-6380	Rod - Accelerator	1
5	49-6470	Pad - Pedal Forward	1
6	49-6440	Pedal - Accelerator	1
7	32121-45	Pin-Roll	2
8	49-6430	Pad - Pedal Reverse	1
9	3234-1	Screw - Hex. Flange Hd.	4
10	47-5320	Lever - Cutting Control	1
11	32121-6	Pin - Roll	1
12	27-2320	Bearing - Side Flange	2
13	44-0870	Camshaft - Rear	1
14	283-57	Pin - Clevis	1
15	49-6220	Bracket - Control Arm	1
16	49-6260	Traction Pivot Tube Assy. (Incl. Ref. #56)	1
17	12-3270	Screw - Hex. Flange Hd.	2
18	49-6290	Shaft - Pivot, Traction	1
19	322-5	Screw - Cap, Hex. Hd.	1
20	233-48	Knob	1
21	68-5930	Handle - Traction (Incl. Ref. #22)	1
22	256-251	Bushing	2
23	3272-4	Pin - Cotter	1
25	302-5	Fitting - Grease	1

Ref. No.	Part No.	Description	No. Used
26	75-9600	Frame (Incl. Ref. #25 & 62)	1
27	68-5560	Pin - Cylinder	1
28	322-3	Screw - Cap, Hex. Hd.	1
29	68-5830	Hose - Hydraulic	1
30	340-103	Fitting - Hydraulic (Incl. Ref. #46 & 47)	2
31	3-0348	Bushing - Sleeve	6
32	68-5380	Center Lift Arm Assembly (Incl. Ref. #31)	1
33	63-8750	Pin - Pivot	1
34	10-7820	Pivot Hinge Assembly	1
35	10-8110	Washer - Thrust	6
36	302-60	Fitting - Grease	1
37	10-6090	Pin - Pivot	1
38	3253-4	Washer - Lock	2
39	322-1	Screw - Cap, Hex. Hd.	2
40	57-7650	Spring - Torsion	1
41	62-2420	Bar - Arm, Lift	1
42	3256-26	Washer - Flat	1
43	3272-11	Pin - Cotter	1
44	302-2	Fitting - Grease	1
45	74-3710	Cylinder - Lift, Rear	1
46	237-78	O-Ring	2
47	237-35	O-Ring	2
48	68-5780	Hose - Hydraulic	1

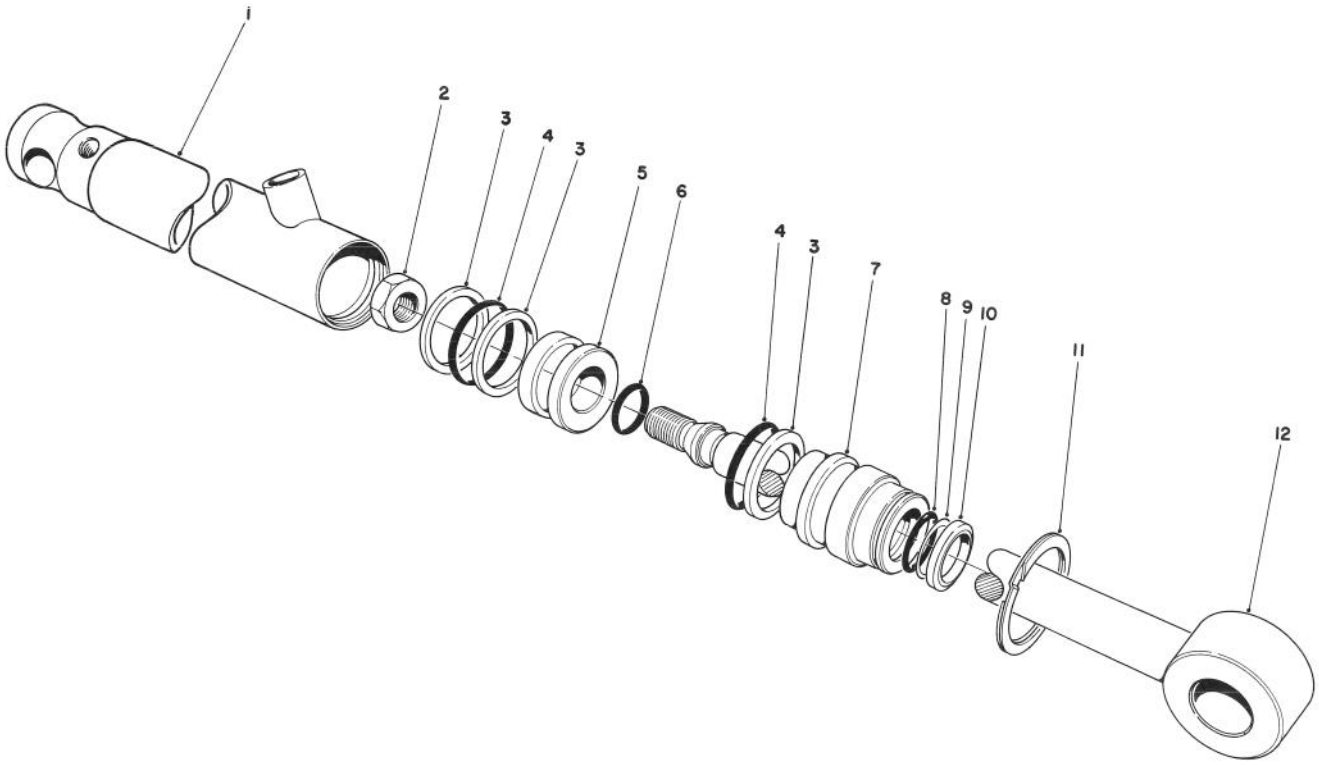


T-0641

FRAME ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
49	3296-29	Nut - Lock	2
50	3296-59	Nut - Lock	4
51	3256-24	Washer - Flat	4
52	3256-3	Washer - Flat	2
53	3211-1	Screw - Cap, Hex. Hd.	2
54	3254-6	Washer - Lock	2
55	49-6250	Bracket - Pivot, Traction	1
56	256-2	Bushing - Sleeve	2
57	27-2550	Pin - Hinge	1
58	302-11	Fitting - Grease	1
59	3256-23	Washer - Flat	1
60	62-5070	Decal - Warning	1
61	47-5960	Frame - Pull, Rear	1

Ref. No.	Part No.	Description	No. Used
62	256-155	Bushing - Flange	2
63	32128-20	Nut - Lock, Flange	1
64	17-9420	Screw - Stop, Accelerator	1
65	3296-4	Nut - Lock	2
66	49-6350	Shaft - Traction	1
69	321-3	Screw - Cap, Hex. Hd.	1
70	2412-41	Clamp - R	2
71	3256-1	Washer - Flat	3
72	3296-16	Nut - Lock	1
73	75-9490	Plate - Footrest	1
74	32144-14	Screw - Hex. Flange Hd.	9
75	5-1228	Washer - Shim	2
76	27-2540	Spacer - Hub	1



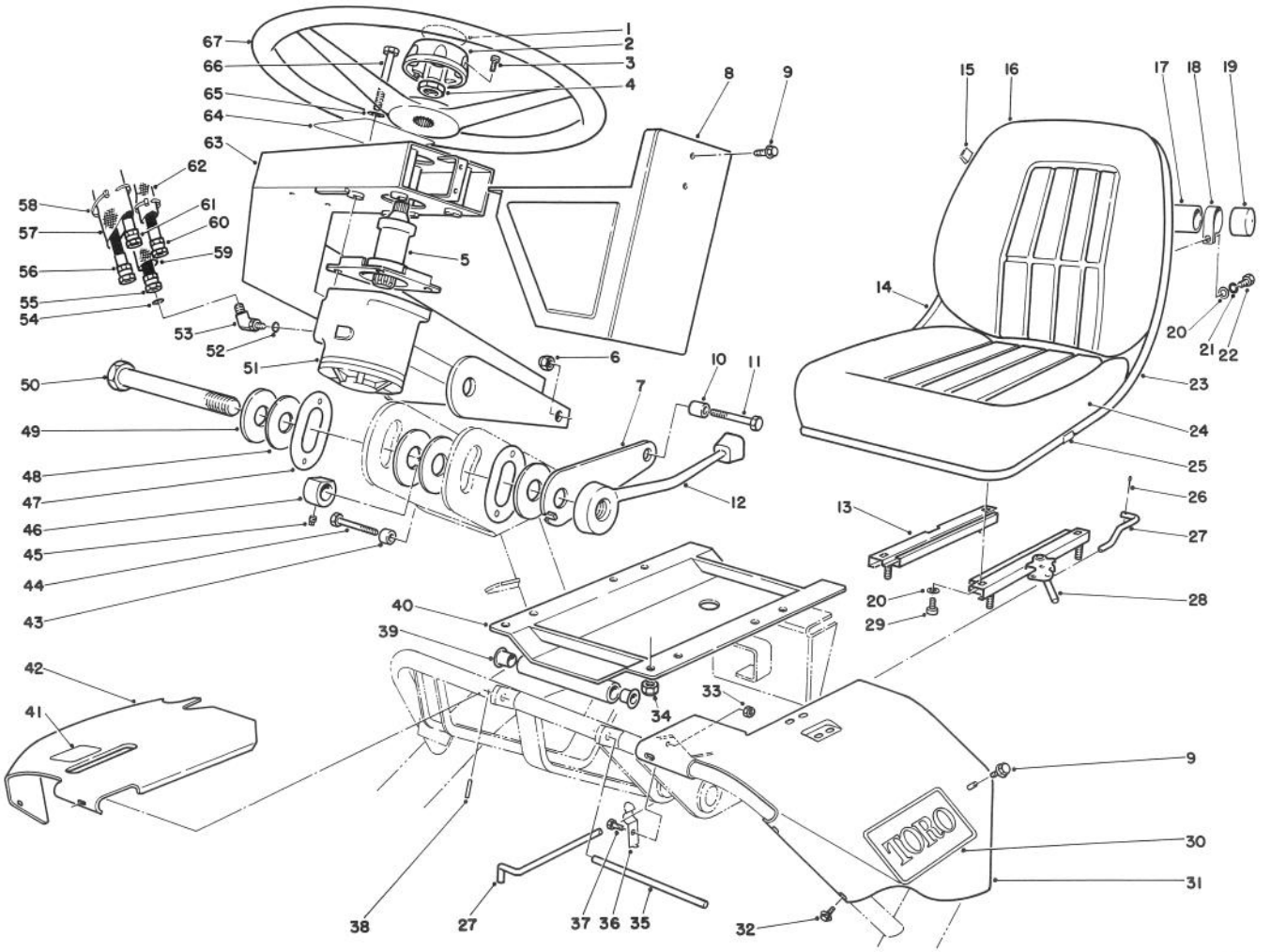
T-0640

REAR HYDRAULIC CYLINDER NO. 74-3710

Ref. No.	Part No.	Description	No. Used
1	70-8130	Barrel	1
2	32152-10	Nut	2
3		Washer - Backup	3
4		O-Ring	2
5	70-2780	Piston	1
6		O-Ring	1
7	70-2770	Head	

Ref. No.	Part No.	Description	No. Used
8		O-Ring	1
9		Leather	1
10		Seal - Dust	1
11	43-5220	Ring - Retaining	1
12	43-5230	Shaft/Clevis	1
*	74-3590	Seal Repair Kit (Incl. Ref. #3, 4, 6, 8-10)	1

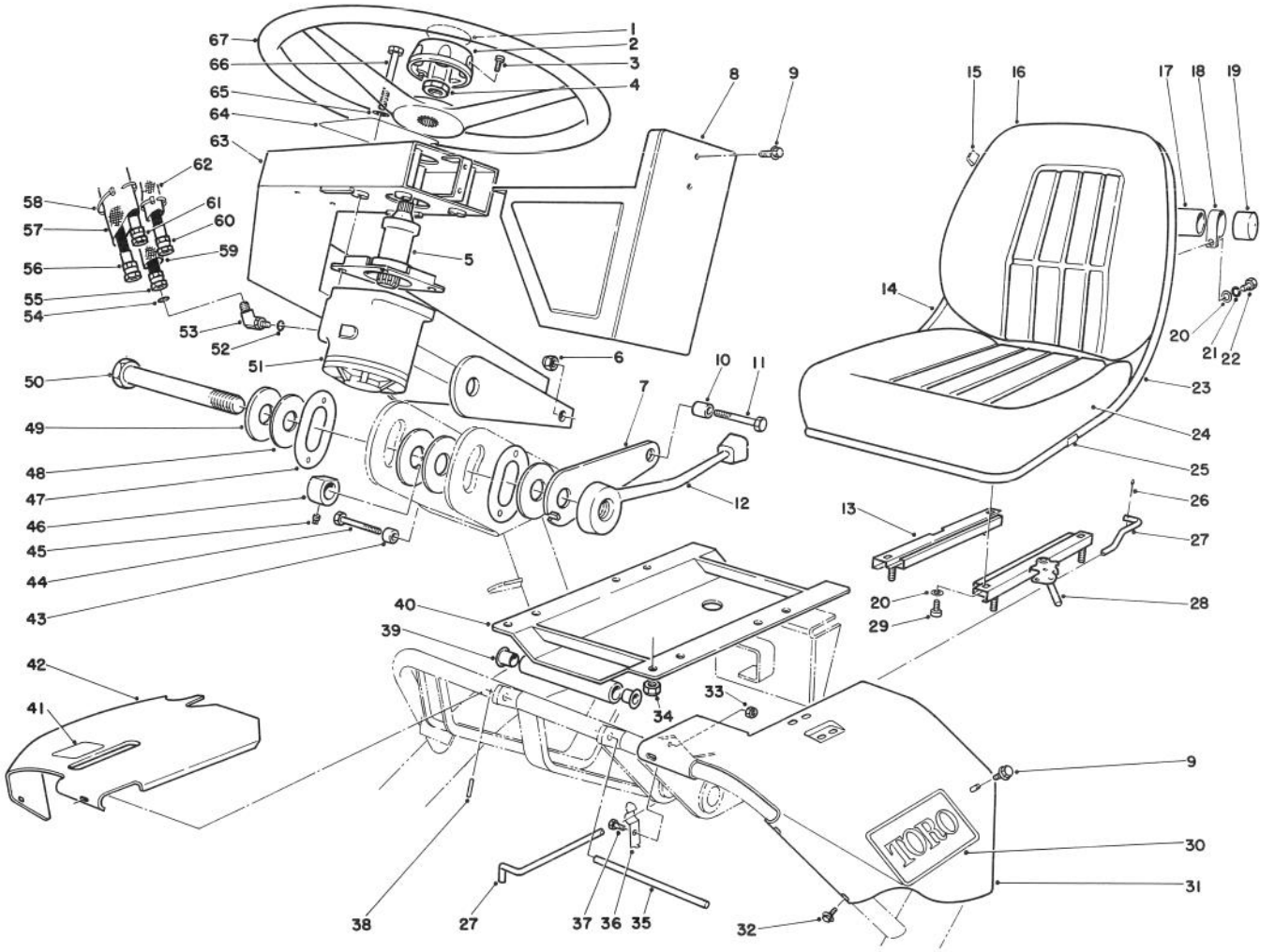
*Not Illustrated



T-0648

STEERING & SEAT ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	68-5370	Decal - Steering Wheel	1
2	68-5140	Cap - Steering Wheel (Incl. Ref. #3)	1
3	32144-21	Screw - Fillister Head	1
4	47-6990	Nut - Lock	1
5	68-5170	Column - Steering	1
6	3296-25	Nut - Lock	2
7	68-5480	Plate - Arm, Steering	1
8	68-5120	Cover - Valve, Steering	1
9	12-3270	Screw - Thread Forming	7
10	68-5450	Spacer - Arm, Pivot LH	1
11	325-8	Screw - Cap, Hex. Hd.	1
12	68-5300	Lever - Arm, Lock	1
13	51-0780	Slide - Seat	1
14	351-81	Shell - Seat	1
15	351-79	Clip - Seat	6
16	75-9810	Backrest (Incl. Ref. #15 & 25)	1
17	65-5871	Tube	1
18	2412-102	Clamp-R	2
19	65-5890	Cap - Tube	2
20	3256-23	Washer - Flat	6
21	3253-4	Washer - Lock	2
22	322-2	Screw - Cap, Hex. Hd.	2
23	351-78	Edging	2
24	75-9720	Cushion - Seat (Incl. Ref. #15 & 25)	1
25	351-80	Clip - Seat	1
26	3272-11	Pin - Cotter	1
27	68-5100	Rod - Seat	1
28	51-0790	Adjuster - Seat	1
29	3274-12	Screw - Cap, Hex. Hd.	4
30	43-5110	Decal - TORO	2
31	68-4690	Shield - Valve Cover, LH	1
32	32104-76	Screw - Self Tapping	5
33	3296-16	Nut - Lock	1
34	3296-29	Nut - Lock	4
35	49-5880	Shaft - Support, Seat	1
36	68-5310	Clip - Seat	1
37	321-3	Screw - Cap, Hex. Hd.	1
38	32121-45	Pin - Roll	1
39	256-219	Bushing	2
40	49-5840	Support - Seat (Incl. Ref. #39)	1
41	51-0010	Decal - Traction	1
42	68-4680	Shield - Valve Cover, RH	1
43	68-5440	Spacer - Arm, Pivot RH	1
44	325-7	Screw - Cap, Hex. Hd.	1
45	3242-1	Screw - Cap, Hex. Hd.	1
46	68-5420	Hub - Locking	1
47	68-5430	Plate - Wear	2
48	31-0390	Washer - Friction	4

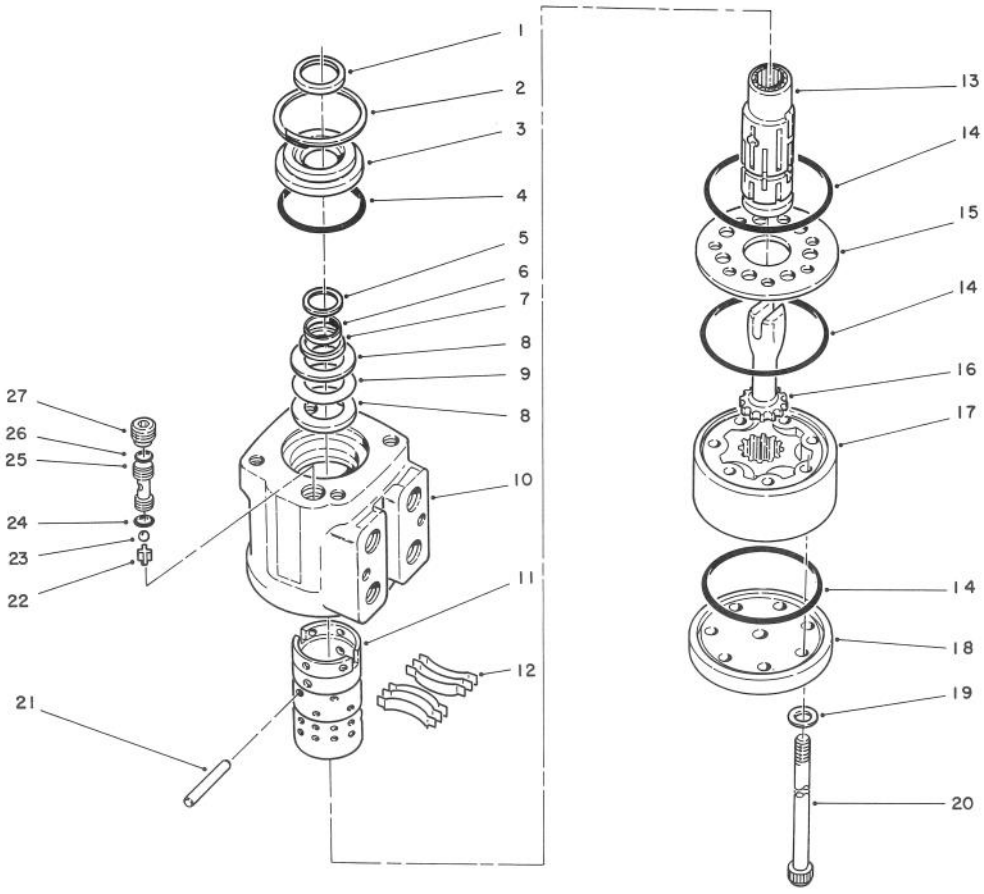


STEERING & SEAT ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
49	68-5290	Washer - Arm, Steering	1
50	3216-16	Screw - Cap, Hex. Hd.	1
51	58-3951	Steering Valve Assembly	1
52	237-42	O-Ring	4
53	340-137	Fitting - Hydraulic (Incl. Ref. #52 & 54)	4
54	237-35	O-Ring	4
55	68-5840	Hose Assembly (Incl. Ref. #58 & 59)	1
56	68-5750	Hose Assembly (Incl. Ref. #57 & 58)	1
57	56-7983	Sleeve - Protective	1
58	3290-378	Tie - Cable	6
59	70-8445	Sleeve - Protective	1

Ref. No.	Part No.	Description	No. Used
60	68-5740	Hose Assembly (Incl. Ref. #58 & 60)	1
61	68-5760	Hose Assembly (Incl. Ref. #57 & 58)	1
62	70-8446	Sleeve - Protective	1
63	68-4700	Arm - Steering	1
64	75-9380	Decal - Caution	1
65	3256-24	Washer - Flat	4
66	323-20	Screw - Cap, Hex. Hd.	4
67	68-5130	Wheel - Steering (Incl. Ref. #2 & 3)	1
*	75-9190	Seat Assembly (Incl. Ref. #14-16 & 23-24)	1

*Not Illustrated



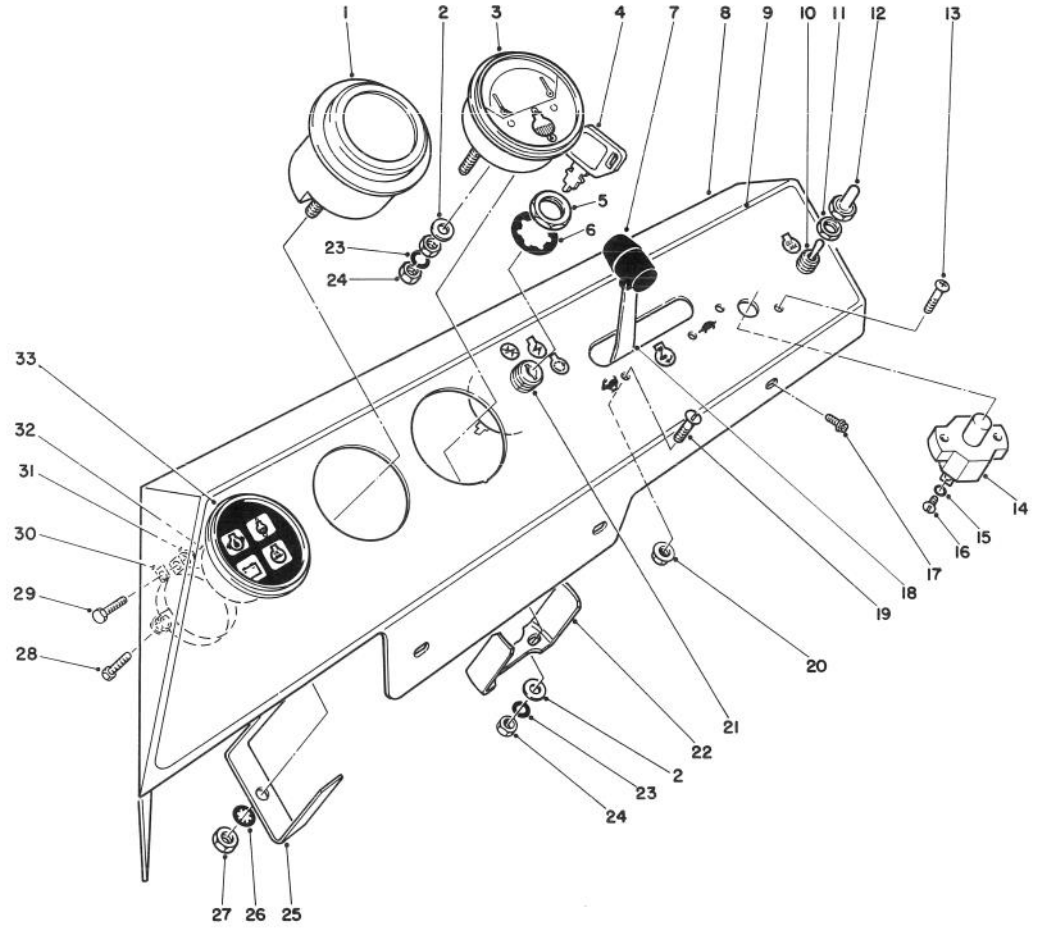
T-0639

POWER STEERING VALVE NO. 58-3951

Ref. No.	Part No.	Description	No. Used
1		Seal - Dust	1
2	52-9230	Ring - Retaining	1
3	70-8230	Bushing - Seal, Gland	1
4		O-Ring	1
5		Ring - Backup	1
6		O-Ring	1
7		Seal	1
8	59-6730	Race - Bearing	2
9	59-6740	Bearing - Needle, Thrust	1
†10		Housing	1
†11		Sleeve - Control	1
12	59-6820	Centering Spring Kit	1
†13		Spool - Control	1
14		O-Ring	3
15	59-6850	Plate - Spacer	1
16	70-8250	Drive	1
17	70-8320	Gerotor	1

Ref. No.	Part No.	Description	No. Used
18	59-6890	Cap - End	1
19	52-9350	Screw - Cap	7
20		Washer	7
21	59-6830	Centering Pin Kit	1
22	52-9290	Retainer - Ball, Check	1
23	52-9280	Ball - Check	1
24		O-Ring	1
25	52-9270	Seat - Ball, Check	1
26		O-Ring	1
*	52-9250	Needle Bearing Kit (Incl. Ref. #8 & 9)	1
*	70-8240	Control Parts Assembly (Incl. Ref. #10-13 & 21)	1
*	70-8300	Seal Kit (Incl. Ref. #1, 4-7, 14, 20, 24 & 26)	1

*Not Illustrated
†Not Serviced Separately



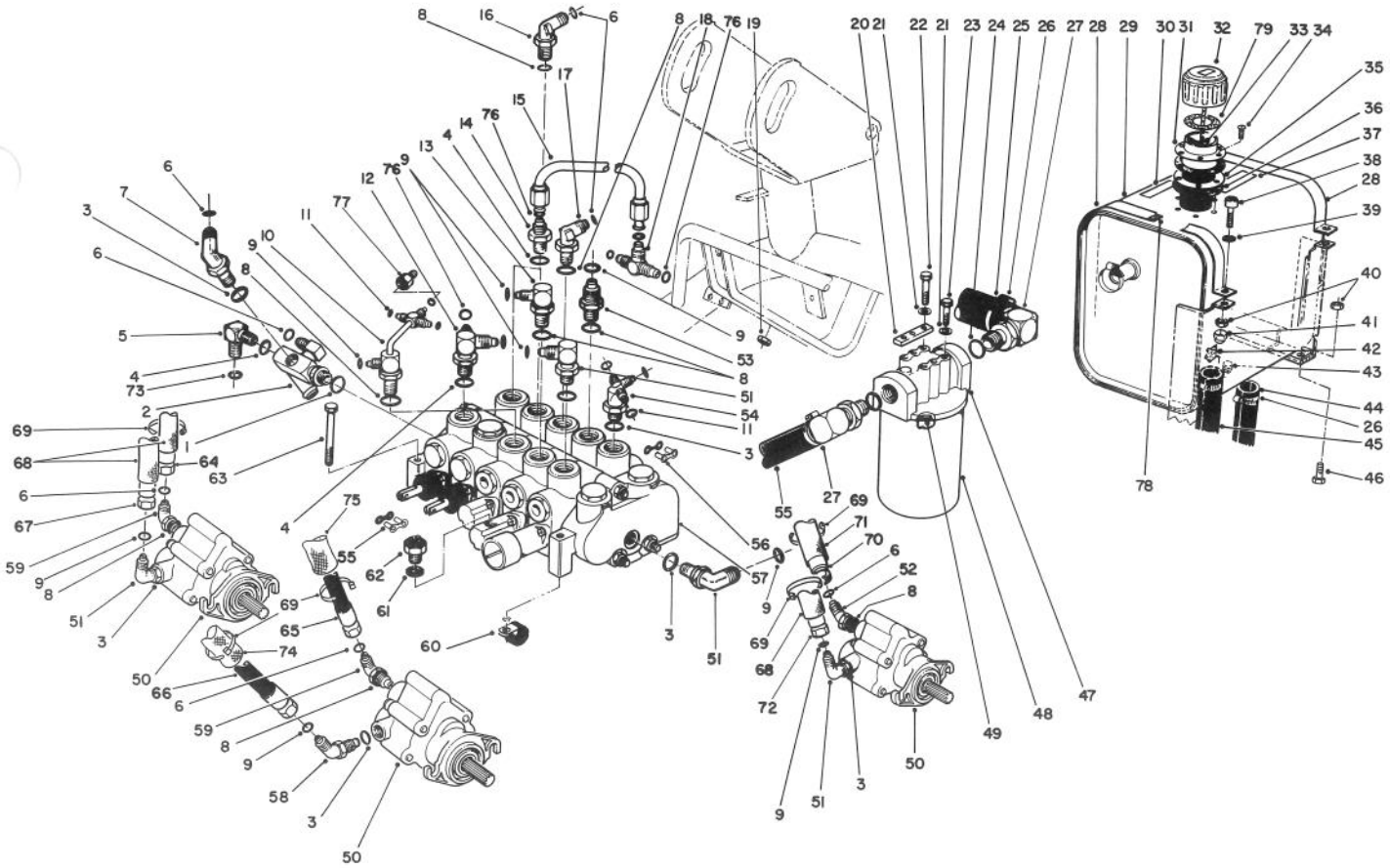
T-0814

INSTRUMENT PANEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	66-2950	Hour Meter	1
2	3256-14	Washer - Flat	4
3	63-7430	Gauge - Temperature	1
4	63-8360	Key	1
5	218-446	Nut	1
6	218-447	Washer - Lock	1
7	233-50	Knob - Throttle	1
8	68-5630	Panel - Instrument	1
9	70-8120	Decal- Panel, Instrument	1
10	6-1659	Switch - Glow (Incl. Ref. #11 & 12)	1
11	218-497	Nut	1
12	218-473	Boot - Switch	1
13	32122-53	Screw - Phillips Hd.	2
14	68-5210	Breaker - Circuit,15A	1
15	3253-15	Washer - Lock	2
16	3250-28	Screw - Cap, Round Hd.	2
17	32104-76	Screw - Acorn Washer Hd.	6
18	68-9931	Control Throttle (Inc. Ref. #7)	1

Ref. No.	Part No.	Description	No. Used
19	32105-8	Screw - Round Head	2
20	32149-7	Nut - Lock	2
21	27-2360	Switch - Key (Incl. Ref. #5 & 6)	1
22	39-9600	Clamp - Mounting	1
23	3253-12	Washer - Lock	5
24	3256-49	Nut - Lock	6
25	218-515	Bracket - Mounting	1
26	3254-1	Washer - Lock, Int. Tooth	1
27	3217-26	Nut	1
28	32144-1	Screw - Thread Forming	2
29	32105-1	Screw - Cap, Hex. Hd.	1
30	69-4780	Clamp Hose	1
31	3296-2	Nut - Lock	1
32	70-8200	Socket - Light	4
33	66-2960	Light - Cluster, Warning	1
*	219-17	Bulb - Light	4

*Not Illustrated

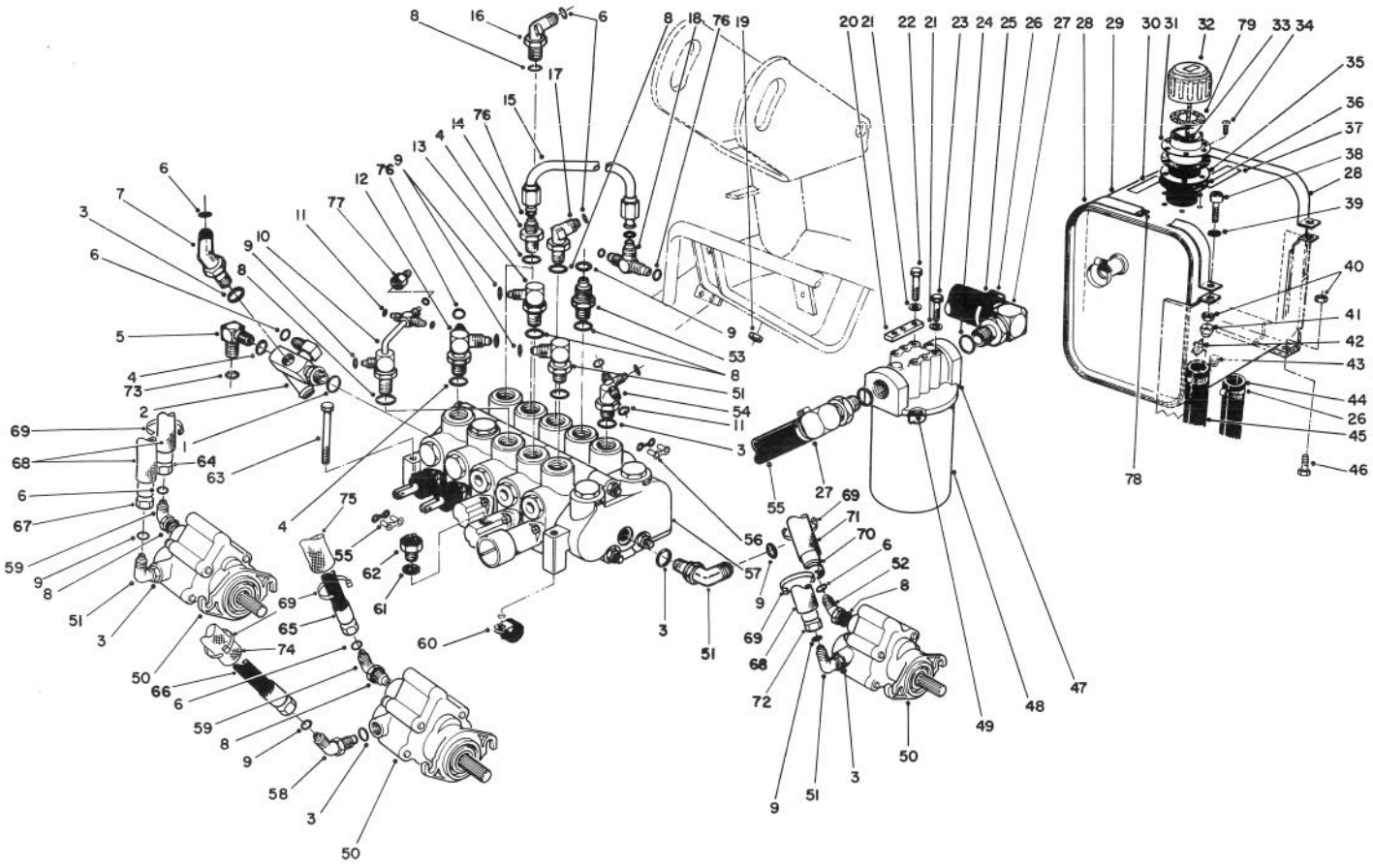


T-0643

VALVE BANK AND HYDRAULIC RESERVOIR ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	237-81	O-Ring	1
2	68-5260	Orifice - Manifold Drain (Incl. Ref. #1 & 6)	1
3	237-42	O-Ring	9
4	237-80	O-Ring	3
5	340-16	Fitting - Hydraulic (Incl. Ref. #3 & 4)	1
6	237-30	O-Ring	7
7	340-96	Fitting - Hydraulic (Incl. Ref. #3 & 6)	1
8	237-79	O-Ring	8
9	237-22	O-Ring	3
10	63-4060	Tube Assembly (Incl. Ref. #8, 9 & 11)	1
11	237-21	O-Ring	7
12	63-4050	Fitting - Traction, Upper (Incl. Ref. #4 & 76)	1
13	340-18	Fitting - Hydraulic (Incl. Ref. #5 & 9)	1
14	340-7	Fitting - Hydraulic (Incl. Ref. #4 & 76)	1
15	63-3980	Tube - Interconnect, Tract.	1
16	340-11	Fitting - Hydraulic (Incl. Ref. #6 & 8)	1
17	340-101	Fitting - Hydraulic (Incl. Ref. #6 & 8)	1

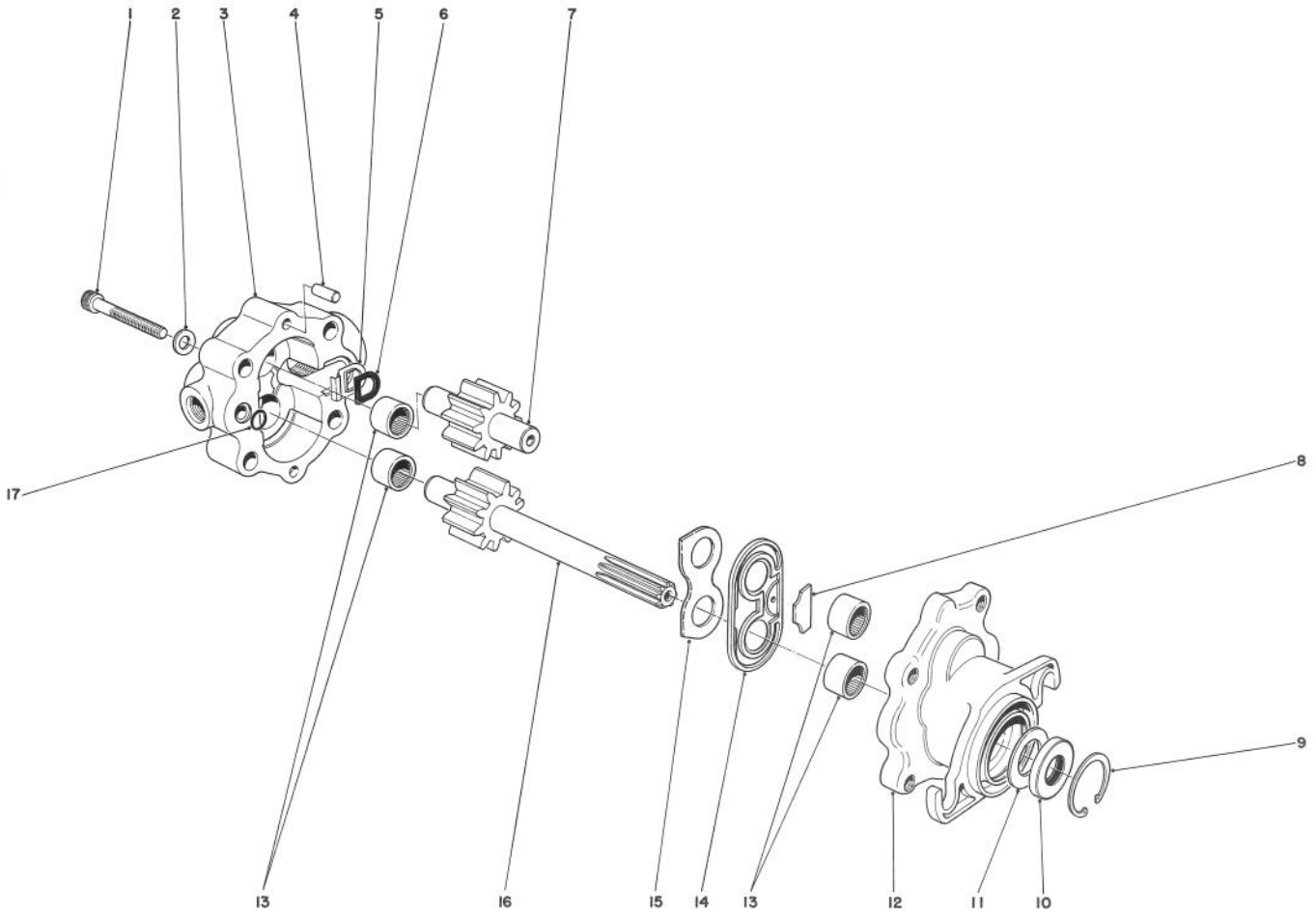
Ref. No.	Part No.	Description	No. Used
18	340-19	Fitting - Hydraulic (Incl. Ref. #76)	1
19	32128-20	Nut - Lock, Flange Hd.	3
20	27-2380	Spacer - Mount, Filter	1
21	3256-23	Washer - Flat	2
22	322-4	Screw - Cap, Hex. Hd.	2
23	322-2	Screw - Cap, Hex. Hd.	2
24	237-101	O-Ring	2
25	68-5890	Hose - Return, Filter	1
26	2412-3	Clamp - Hose	8
27	353-564	Fitting - Hydraulic (Incl. Ref. #24)	2
28	27-2400	Strap - Reservoir (Incl. Ref. #78)	2
29	55-8480	Reservoir - Hydraulic	1
30	58-6530	Decal - Oil	1
31	353-961	Adapter - Flange	1
32	62-2570	Cap - Breather (Incl. Ref. #31, 33, 36, 37 & 39)	1
33	353-962	Cap & Chain Assembly	1
34	32144-34	Screw	6
35	62-2610	Screen Assembly	1
36	353-963	Gasket	2
37	62-7290	Decal - Hot Surface	1
38	3274-19	Screw - Set	2



T-0643

VALVE BANK AND HYDRAULIC RESERVOIR ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
39	3256-22	Washer - Flat	2
40	3296-16	Nut - Lock	4
41	2410-66	Cap - Vinyl	1
42	27-2420	Felt - Angle	2
43	281-1	Plug - Oil	1
44	68-5860	Hose - Inlet, Pump LH	1
45	68-5870	Hose - Inlet, Pump RH	1
46	321-3	Screw - Cap, Hex. Hd.	2
47	44-5560	Head - Filter, Hydraulic	1
48	74-3570	Element - Filter (Incl. Ref. #49)	1
49	72-3850	Seal - Ring	1
50	70-9800	Motor - Reel	3
51	340-77	Fitting - Hydraulic (Incl. Ref. #3 & 9)	4
52	340-101	Fitting - Hydraulic (Incl. Ref. #6 & 8)	1
53	340-3	Fitting - Hydraulic (Incl. Ref. #8 & 9)	1
54	70-2630	Fitting - Hydraulic (Incl. Ref. #3 & 11)	1
55	68-5880	Hose - Inlet, Filter	1
56	57-6220	Link - Connector	5
57	70-8210	Control Valve Assembly	1
58	340-87	Fitting - Hydraulic (Incl. Ref. #3 & 9)	1
59	340-98	Fitting - Hydraulic (Incl. Ref. #6 & 8)	2
60	304-61	Clamp	1
61	38-0410	Nut - Hex.	2
62	43-8520	Switch	2
63	322-14	Screw - Cap, Hex. Hd.	3
64	63-3820	Hose - Assembly (Incl. Ref. #68 & 69)	1
65	63-3830	Hose - Assembly (Incl. Ref. #69 & 75)	1
66	63-3870	Hose - Assembly (Incl. Ref. #69 & 74)	1
67	63-3810	Hose - Assembly (Incl. Ref. #68 & 69)	1
68	56-7980	Sleeve - Protective	3
69	3290-378	Tie - Cable	12
70	63-3840	Hose - Assembly (Incl. Ref. #69 & 71)	1
71	56-7981	Sleeve - Protective	1
72	74-3830	Hose - Assembly (Incl. Ref. #68 & 69)	1
73	237-58	O-Ring	1
74	56-7986	Sleeve - Protective	1
75	56-7987	Sleeve - Protective	1
76	237-65	O-Rring	6
77	71-0990	Orifice - One Way	1
78	27-3030	Felt - Strap	2
79	76-1720	Gasket	1

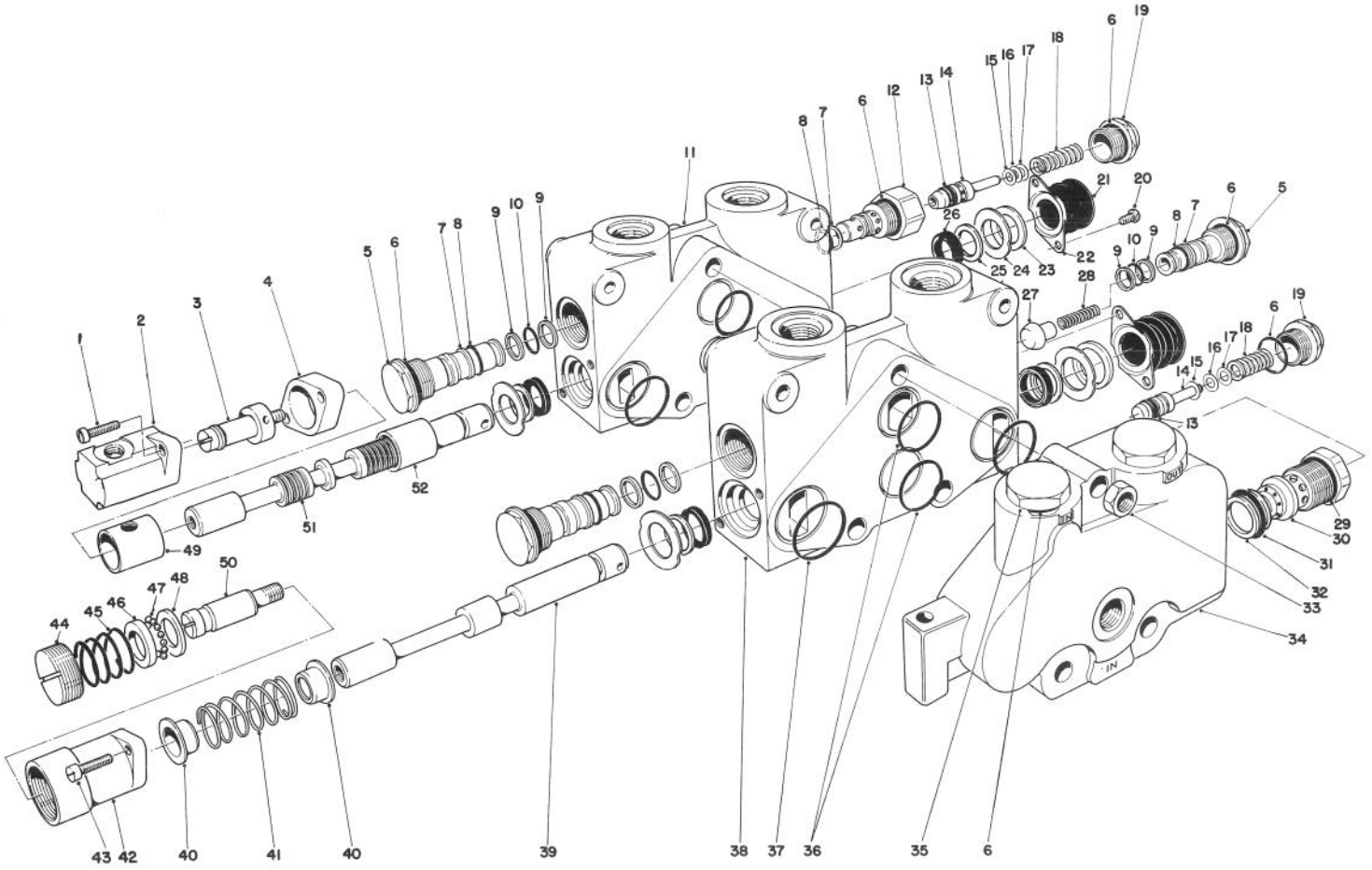


T-0300

REEL MOTOR NO. 70-9800

Ref. No.	Part No.	Description	No. Used
1	353-601	Screw - Hex Socket Hd.	4
2	353-600	Washer	4
3	353-588	Cover - Motor	1
4	353-599	Pin - Dowel	2
5	353-597	Bridging - Insert	1
6	353-598	Gasket - Insert	1
7	353-593	Idler Gear Assembly	1
8	353-591	Block - Anti-Extrusion	1
9	32151-41	Ring - Retaining	1
10		Seal - Shaft	1
11		Spacer	1
12	353-777	Body - Motor (Incl. Ref. #13)	1
13	353-586	Bearing - Needle	4
14	353-594	Seal Assembly	1
15	353-595	Plate - Wear	1
16	353-592	Drive Shaft Assembly	1
17	353-596	O-Ring	1
*	72-4380	Seal Kit (Incl. Ref. #9-11)	1
*	72-4390	Repair Kit (Incl. Ref. #5, 6, 8-11, 14, 15 & 17)	
*†		Seal Installer	1
*†		Seal Protector	1

*Not Illustrated
†Special Tool Ref. Page 69-70



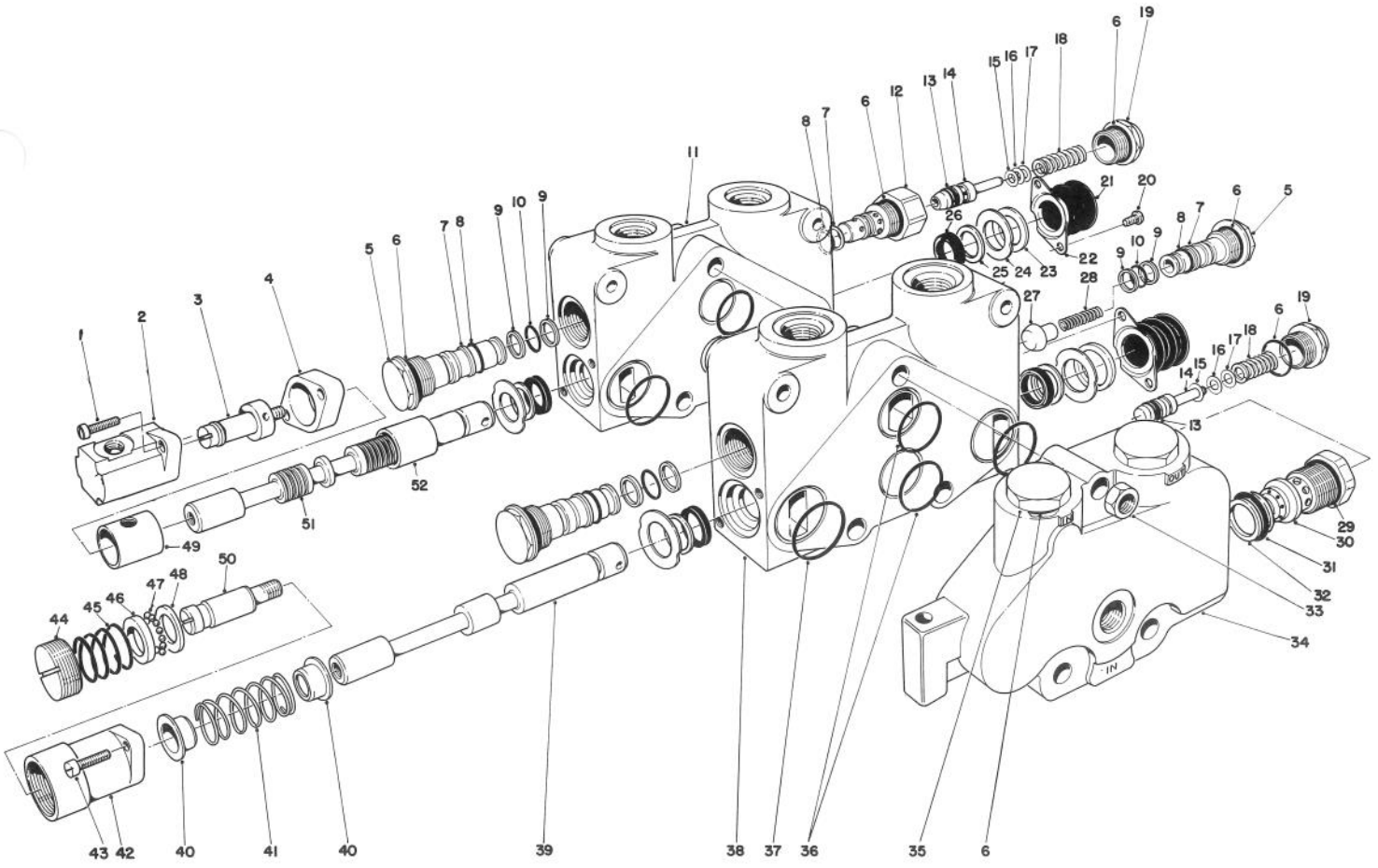
T-0301

CONTROL VALVE ASSY. NO. 70-8210 (Sections 1& 2)

Ref. No.	Part No.	Description	No. Used
1	3274-70	Screw - Hex, Socket Hd.	2
2	353-727	Bonnet	1
3	353-729	Spud - Detent	1
4	353-733	Spacer - Bonnet	1
5	353-481	Plug - Load Check (Incl. Ref. #6-10)	3
6	237-54	O-Ring	8
7	353-306	Ring - Backup	4
8	353-305	O-Ring	4
9	353-303	Ring - Backup	6
10	353-302	O-Ring	3
11		Housing V20T	1
12	353-851	Body - Relief CP-RC Mod.	1
13	353-392	Seal - Relief Poppet PTFE	2
14	353-531	Poppet Assy. (Incl. Ref. #13)	2
15	353-328	Washer - Shim	A/R
16	353-329	Washer - Shim	A/R
17	353-330	Washer - Shim	A/R
18	353-855	Spring	2
19	353-334	Cap - Relief	2
20	3274-52	Screw - Hex, Socket Hd.	4
21	353-575	Boot - Dust Cap	2
22	353-559	Retainer - Boot	2
23	353-560	Washer - Breather	2

Ref. No.	Part No.	Description	No. Used
24	353-959	Plate - Seal Retainer	4
25	353-958	Ring - Backup	4
26	353-957	Seal - Lip	4
27	353-301	Poppet	1
28	353-304	Spring	1
29	353-331	O-Ring	1
30	353-760	Body Relief	1
31	353-758	Seal - O-Ring	1
32	353-952	Ring - Backup	1
33	3217-7	Nut - Hex	3
34	353-772	Left End Cover	1
35	353-721	Plug (Incl. Ref. #6)	2
†36		O-Ring	4
†37		O-Ring	4
†38		Housing Section #1	1
†39		Spool V20 SPL	1
40	353-417	Collar Spring	2
41	353-530	Spring	1
42	353-780	Bonnet - R. Detent	1
43	3274-15	Screw - Fillister Hd.	2
44	353-763	Cap - Adjustment	1
45	353-579	Spring	1
46	42-2680	Race R. Detent	1
47	52-5880	Ball - Steel	12

†Parts Available as Assemblies Listed as (*Not Illustrated) on Following Page



T-0301

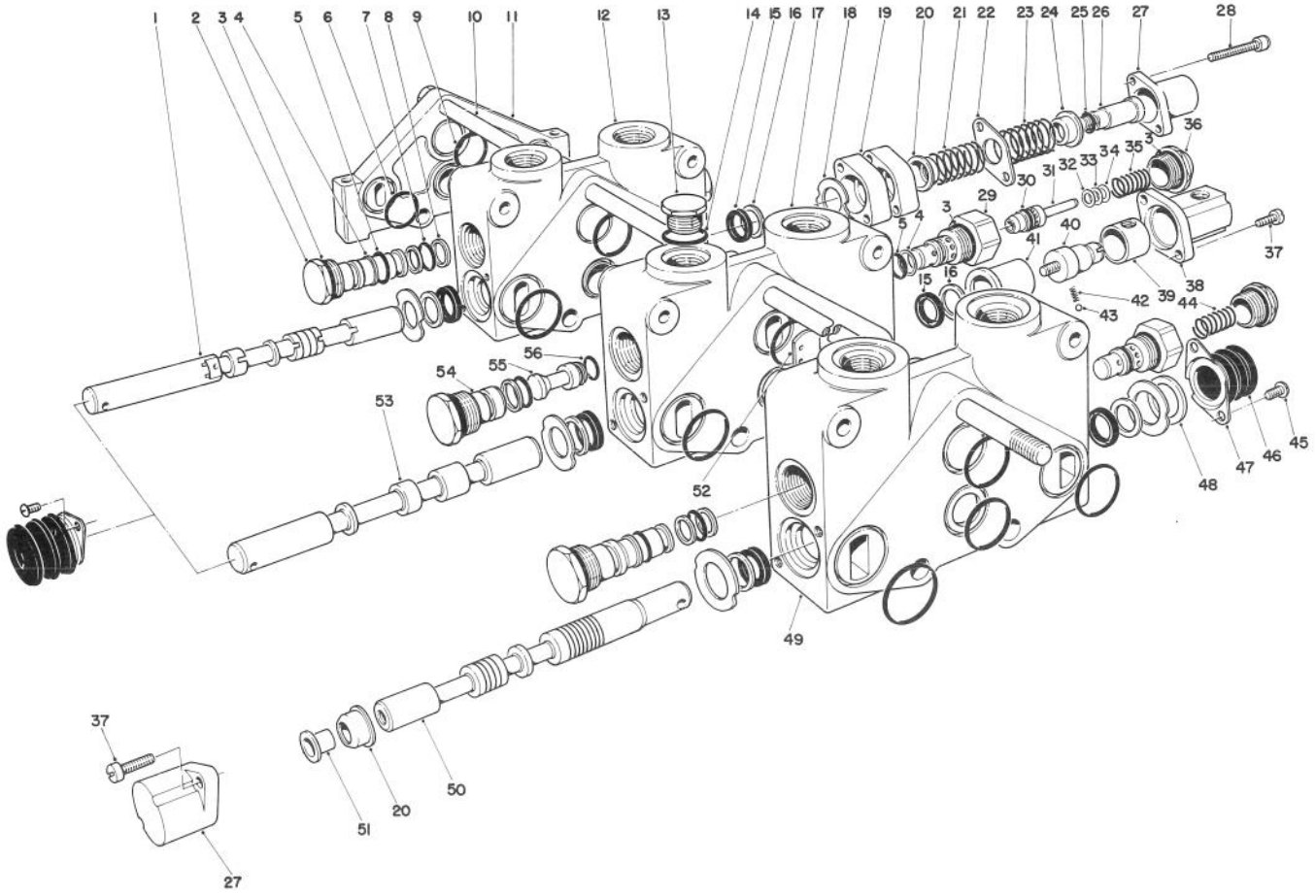
CONTROL VALVE ASSEMBLY NO. 70-8210
(Sections 1 And 2) (Continued)

Ref. No.	Part No.	Description	No. Used
48	354-29	Plate - Thrust	1
49	353-728	Sleeve	1
50	353-780	Spud - Detent Out (Incl. Ref. #44)	1
†51		Spool V20 3 Way F.F.	1
52	353-732	Sleeve - Detent	1
*	353-766	Relief WH (2000) PSI Assy. (Incl. Ref. #6,13-19, 29-32)	1
*	353-768	Section #1 Complete	1
*	353-837	Section #2 Complete	1
*	353-780	Positioner - R. Detent (Out) (Incl. Ref. #3 & 40-49)	1

Ref. No.	Part No.	Description	No. Used
*	353-839	Positioner - DI (SPL) Assy. (Incl. Ref. #1, 3-5, 50 & 52)	1
*	353-642	Relief - RC Mod. (Incl. Ref. #6-8 & 12-19)	2
*	353-835	Seals - Section Set (Incl. Ref. #36 & 37)	1
*	12-7009	Seal - Spool Set (Incl. Ref. #24-26)	1
*	353-854	Boot - Spool Assembly (Incl. Ref. #20-23)	2

*Not Illustrated

†Parts Available as Assemblies Listed as (*Not Illustrated) on This Page



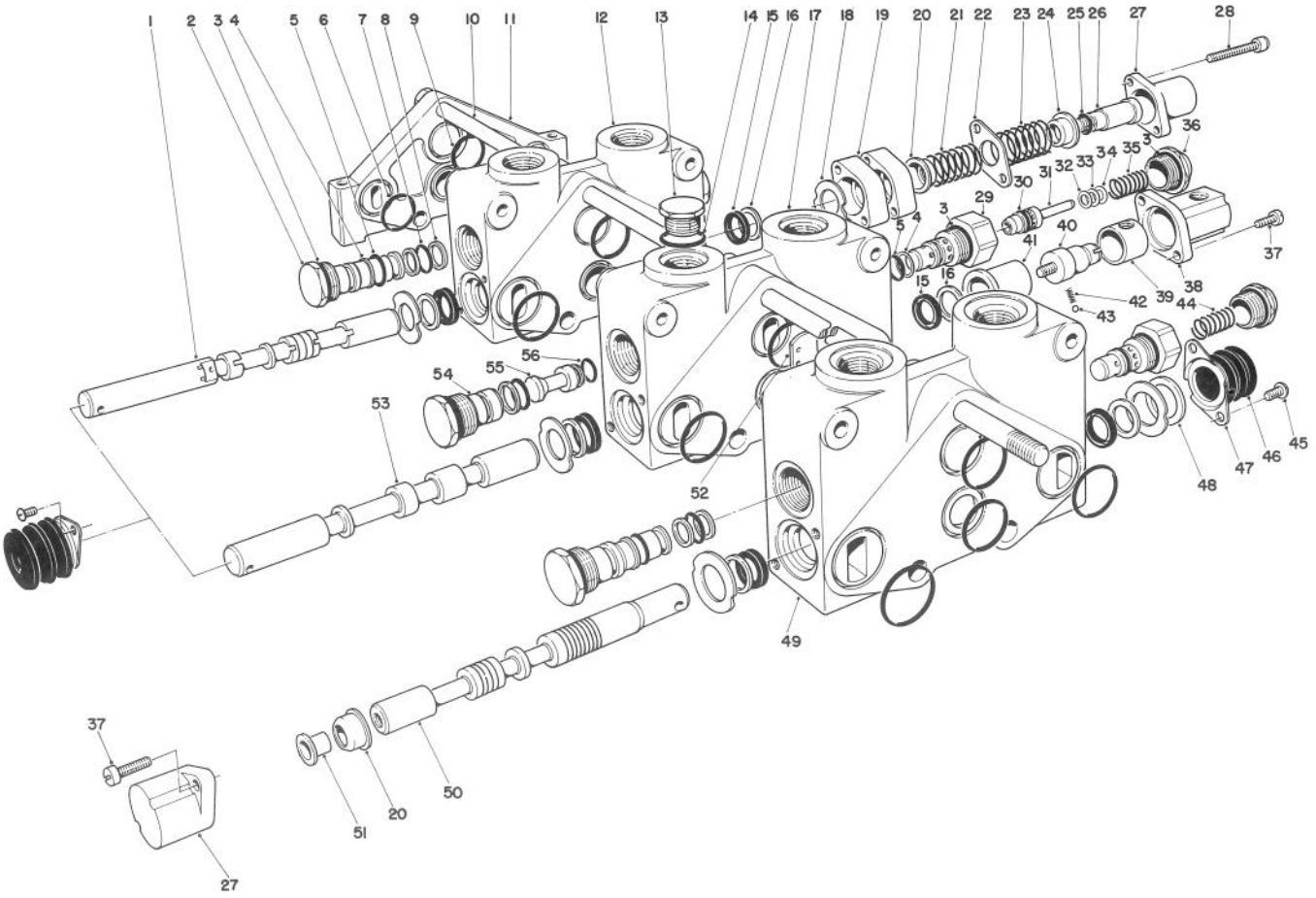
T-0302

CONTROL VALVE ASSY. NO. 70-8210 (Sections 3 Thru 5)

Ref. No.	Part No.	Description	No. Used
†1		Spool #5	1
2	353-481	Plug - Load Check (Incl. Ref. #3-5 & 7-8)	3
3	237-54	O-Ring	6
4	353-306	Ring - Backup	5
5	353-305	O-Ring	5
†6		O-Ring	8
7	353-302	O-Ring	3
8	353-303	Ring - Backup	6
†9		O-Ring	8
10	353-853	Bolt - Hex Hd.	3
11	353-668	Plate - Cap, Cover RH	1
12		Housing V20 #5	1
13	353-550	Plug Assembly (Incl. Ref. #14)	1
14	353-848	O-Ring	1
15	353-957	Seal - Lip	6
16	353-958	Ring - Backup	6
†17		Housing V20 #4	1
18	353-959	Plate - Seal Retainer	6
19	353-733	Spacer - Bonnet	2
20	353-417	Collar Spring	2
21	353-831	Spring	1
22	353-529	Plate Seal	1
23	353-530	Spring	1

Ref. No.	Part No.	Description	No. Used
24	353-808	Collar - Spring	1
25	353-830	O-Ring	1
26	353-829	Collar Spool	1
27	354-26	Bonnet	2
28	354-28	Screw - Hex, Socket Hd.	2
29	353-851	Body - Relief CP-RC Mod.	2
30	353-392	Seal - Relief Poppet PTFE	2
31	353-531	Poppet Assembly (Incl. Ref. #30)	2
32	353-328	Washer - Shim	A/R
33	353-329	Washer - Shim	A/R
34	353-330	Washer - Shim	A/R
35	353-398	Spring	1
36	353-334	Cap - Relief	2
37	52-5900	Screw - Fillister Hd.	4
38	353-847	Bonnet (SPL)	1
39	353-849	Sleeve	1
40	353-846	Spud - DI (SPL)	1
41	353-845	Sleeve - Detent	1
42	353-730	Spring	1
43	353-731	Ball	1
44	353-855	Spring	1
45	3274-52	Screw - Hex ,Socket Hd.	6
46	353-575	Boot - Dust Cap	3
47	353-559	Retainer - Boot	3

†Parts Available as Assemblies Listed as (*Not Illustrated) on Following Page



T-0302

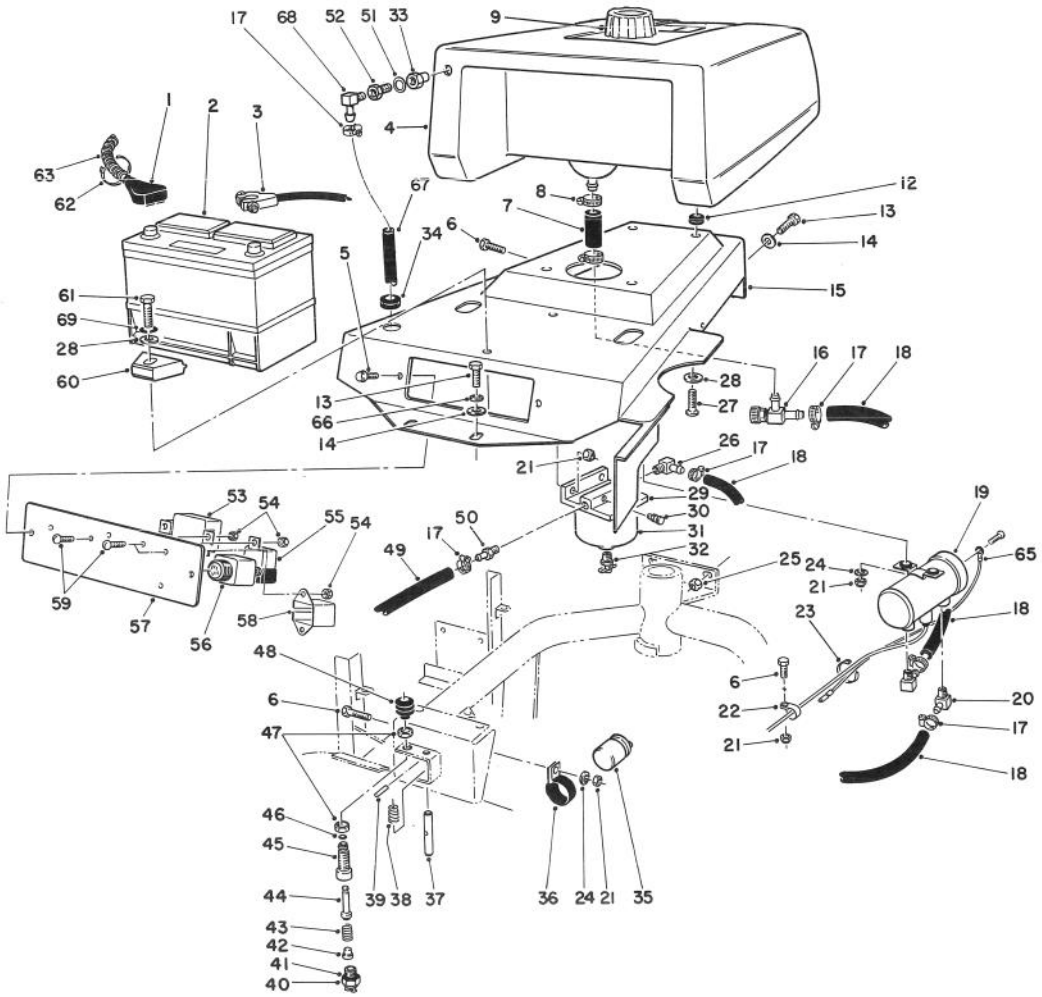
CONTROL VALVE ASSEMBLY NO. 70-8210
(Sections 3 Thru 5) (Continued)

Ref. No.	Part No.	Description	No. Used
†48	353-560	Washer - Breather	3
49		Housing V20 #2	1
†50		Spool V20 3 Way F.F.	1
51	52-5860	Collar - Spool	1
52	353-765	Disc - Seal	1
†53		Spool #4	1
54	353-953	Plug Assembly	1
55	353-844	Plus Series (Incl. Ref. #56)	1
56	353-850	O-Ring	1
57	3253-3	Washer - Lock	4
58	3274-84	Screw - Cap, Hex. Hd.	4
*	353-835	Seals - Section Set (Incl. Ref. #6 & 9)	1
*	12-7009	Seal - Spool Set (Incl. Ref. #15, 16 & 18)	1
*	353-854	Boot - Spool Assembly (Incl. Ref. #45-48)	3

Ref. No.	Part No.	Description	No. Used
*	353-770	Section #3 Assembly (Complete)	1
*	354-25	Section #4 Assembly (Complete)	1
*	353-834	Section #5 Assembly (Complete)	1
*	353-841	Position - Spool Assembly (Incl. Ref. #20 27 37 & 51)	1
*	353-840	Position - DI (SP) Assy. (Incl. Ref. #37-43)	1
*	353-642	Relief - RC Mod. Assembly (Incl. Ref. #3-5 & 29-36)	1
*	353-833	Positioner Assembly (Incl. Ref. #19-28)	1
*	70-8210	Control Valve Assembly Complete	1

*Not Illustrated

†Parts Available as Assemblies Listed as (*Not Illustrated) on This Page

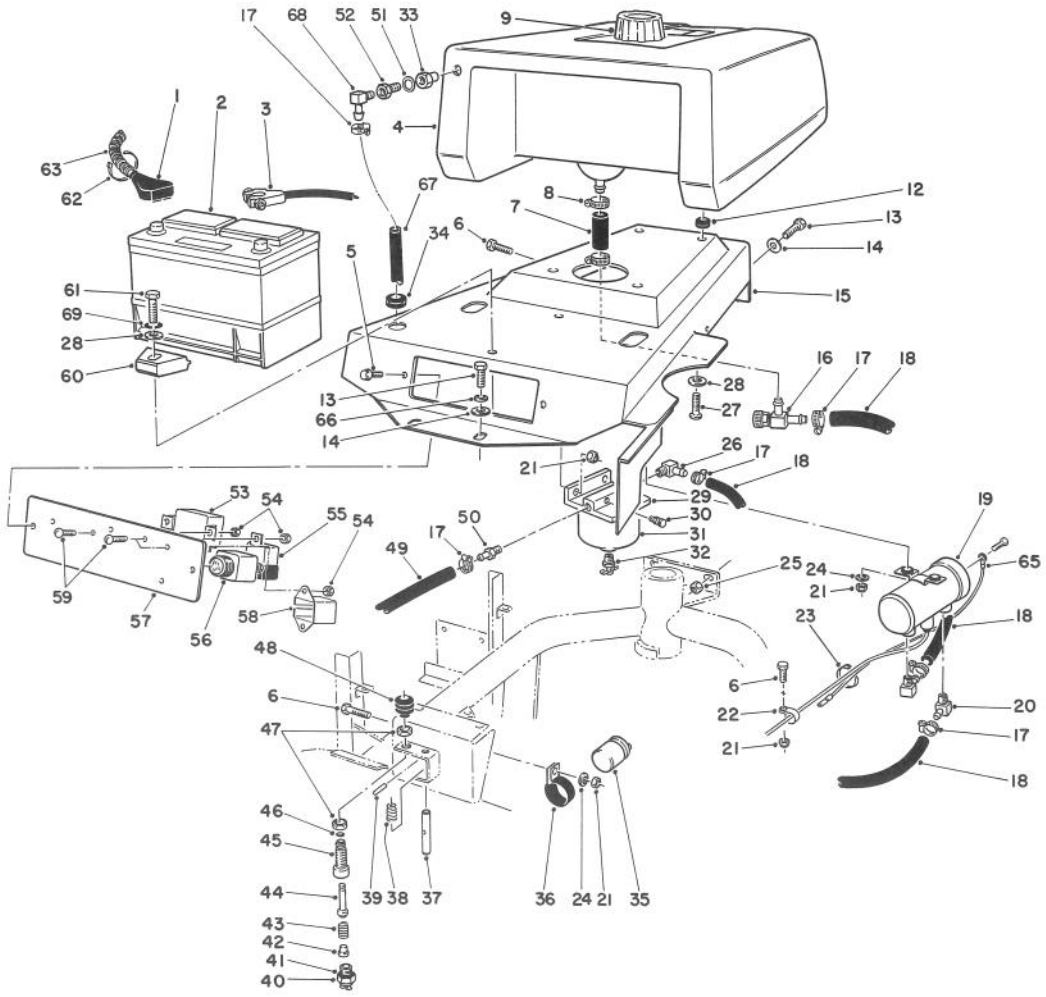


T-0637

GAS TANK & BATTERY ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	68-5460	Cable - Battery, Positive	1
2	13-6259	Battery	1
3	68-5500	Cable - Battery, Negative	1
4	76-4380	Tank - Fuel, Diesel	1
5	32144-1	Screw - Thread Forming	2
6	321-4	Screw - Cap, Hex. Hd.	4
7	56-2230	Hose - Fuel	1
8	2412-36	Clamp - Hose	2
9	55-3577	Cap - Fuel	1
12	237-136	Grommet	4
13	323-6	Screw - Cap, Hex. Hd.	4
14	3256-3	Washer - Flat	4
15	68-5510	Base - Tank, Fuel	1
16	56-2520	Valve - Shutoff, Fuel	1
17	2412-108	Clamp - Hose	8
18	63-7622	Hose - Fuel	2
19	53-8150	Pump - Fuel (Incl. Ref. #65)	1
20	67-1690	Fitting	2
21	3296-16	Nut - Lock	5
22	2412-89	Clamp-R	1
23	3290-379	Tie - Cable	3
24	3256-22	Washer - Flat	3
25	3296-39	Nut - Lock	2
26	353-707	Fitting	1
27	3250-36	Screw - Pan Head	4

Ref. No.	Part No.	Description	No. Used
28	3256-24	Washer - Flat	6
29	63-8280	Head Assembly	1
30	63-8290	Fitting - Vent	1
31	63-8300	Element - Filter	1
32	63-8310	Fitting - Drain	1
33	52-1890	Wellnut - Rubber	1
34	237-124	Grommet	1
35	37-2690	Capacitor	1
36	2412-74	Clamp-R	1
37	51-0350	Pin - Spring, Seat	1
38	3-6685	Spring - Compression	1
39	3284-3	Pin - Groove	1
40	38-0430	Switch - Neutral (Incl. Ref. #41)	1
41	237-30	O-Ring	1
42	43-8610	Guide - Spring & Ball Seat	1
43	43-8600	Spring - Compression	1
44	43-8860	Plunger - Switch	1
45	43-8620	Guide - Pin, Switch	1
46	237-7	O-Ring	1
47	218-461	Nut - Jam	2
48	43-8870	Boot - Switch	1
49	63-7623	Hose - Fuel	1
50	353-783	Fitting - Straight	1
51	53-9880	Washer	1
52	52-1880	Adapter - Fitting, Fuel	1



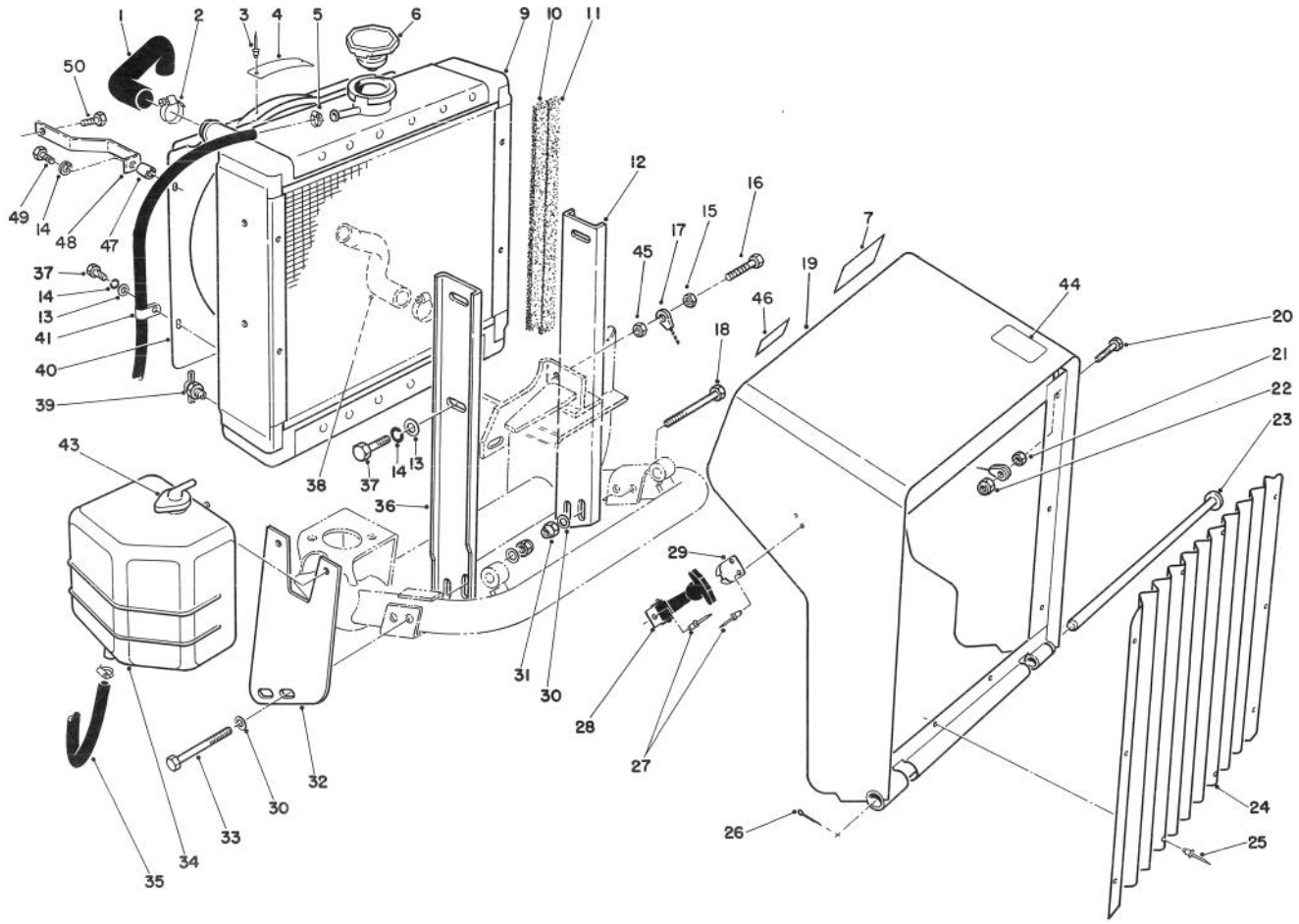
T-0637

GAS TANK & BATTERY (Continued)

Ref. No.	Part No.	Description	No. Used
53	66-8800	Relay - Glow	1
54	32149-7	Nut - KEPS	6
55	63-7590	Relay - SPDT	2
56	67-4700	Indicator - Glow (Incl. Ref. #58)	1
57	68-5680	Plate - Electrical	1
58		Retainer - Plug, Glow	1
59	32105-8	Screw - Machine	6
60	66-2490	Retainer - Battery	2
61	323-9	Screw - Cap, Hex. Hd.	2

Ref. No.	Part No.	Description	No. Used
62	3290-378	Tie - Cable	4
63	70-8510	Tubing - Convoluted	1
65	70-8530	Wire - Pump, Fuel	1
66	3253-21	Washer - Lock	2
67	76-4420	Hose - Fuel	1
68	76-4430	Fitting - Fuel	1
69	3254-6	Washer - Lock	2
*	44-1070	Switch Assembly (Incl. Ref. #40-48)	1

*Not Illustrated

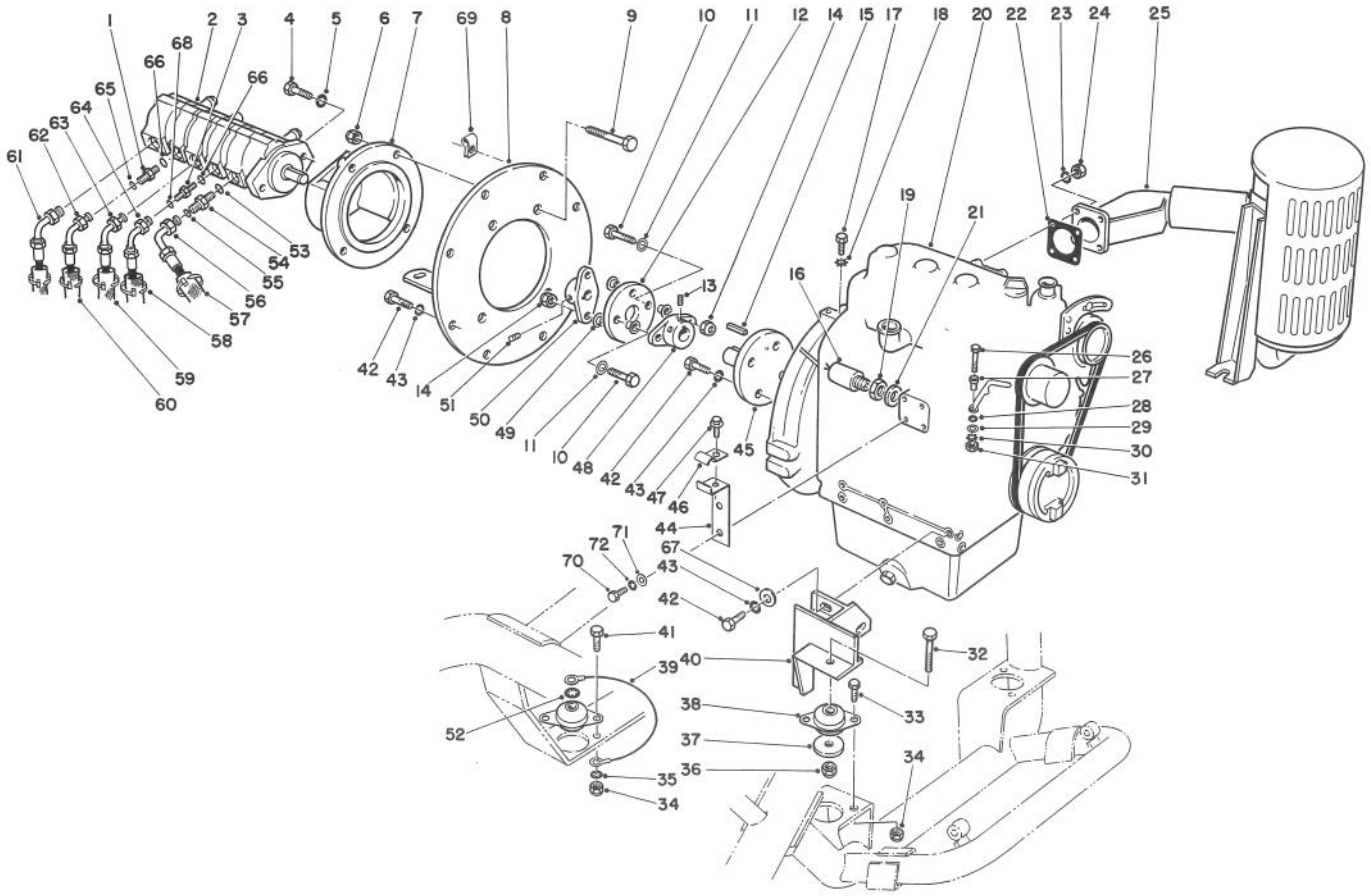


T-0649

RADIATOR & GRILLE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	68-4850	Hose - Upper	1
2	2412-3	Clamp	4
3	3290-271	Rivet	2
4	76-8750	Plate - Warning	1
5	2412-108	Clamp - Gear, Worm	2
6	66-3240	Cap - Radiator	1
7	54-7990	Decal - Coolant, Engine	1
9	68-5230	Radiator (Incl. Ref. #39)	1
10	68-5240	Strip - Foam	2
11	68-5241	Strip - Foam	2
12	68-5660	Support - Radiator, Rear	1
13	3256-23	Washer - Flat	7
14	3253-4	Washer - Lock	8
15	3217-6	Nut - Hex.	1
16	322-6	Screw - Cap, Hex. Hd.	1
17	72-9870	Cable	1
18	323-12	Screw - Cap, Hex. Hd.	2
19	68-4860	Hood - Radiator	1
20	321-6	Screw - Cap, Hex. Hd.	1
21	3218-1	Nut - Jam	1
22	3296-16	Nut - Lock	1
23	68-5610	Pin - Pivot, Hood	1
24	68-5670	Grille	1
25	3290-409	Rivet - Pop	10

Ref. No.	Part No.	Description	No. Used
26	3272-6	Pin - Cotter	1
27	3290-55	Rivet - Pop	8
28	59-9740	Latch Assembly (Incl. Ref. #29)	2
29		Keeper	2
30	3256-3	Washer - Flat	6
31	3296-59	Nut - Lock	4
32	68-5640	Bracket - Tank, Reserve	1
33	323-13	Screw - Cap, Hex. Hd.	2
34	63-7380	Tank - Reserve	1
35	68-5470	Hose	1
36	68-5650	Support - Radiator, Front	1
37	322-3	Screw - Cap, Hex. Hd.	7
38	68-4840	Hose	1
39	304-46	Cock - Drain, Radiator	1
40	68-5180	Shroud - Radiator	1
41	2412-41	Clamp	1
43	71-1520	Cap - Tank, Reserve	1
44	63-8440	Decal - Hot Surface	1
45	3296-29	Nut - Lock	1
46	54-0910	Decal - Warning	1
47	75-9610	Spacer	1
48	75-9630	Brace	1
49	322-9	Screw - Cap, Hex. Hd.	1
50	32144-14	Screw - Cap, Hex. Hd.	1



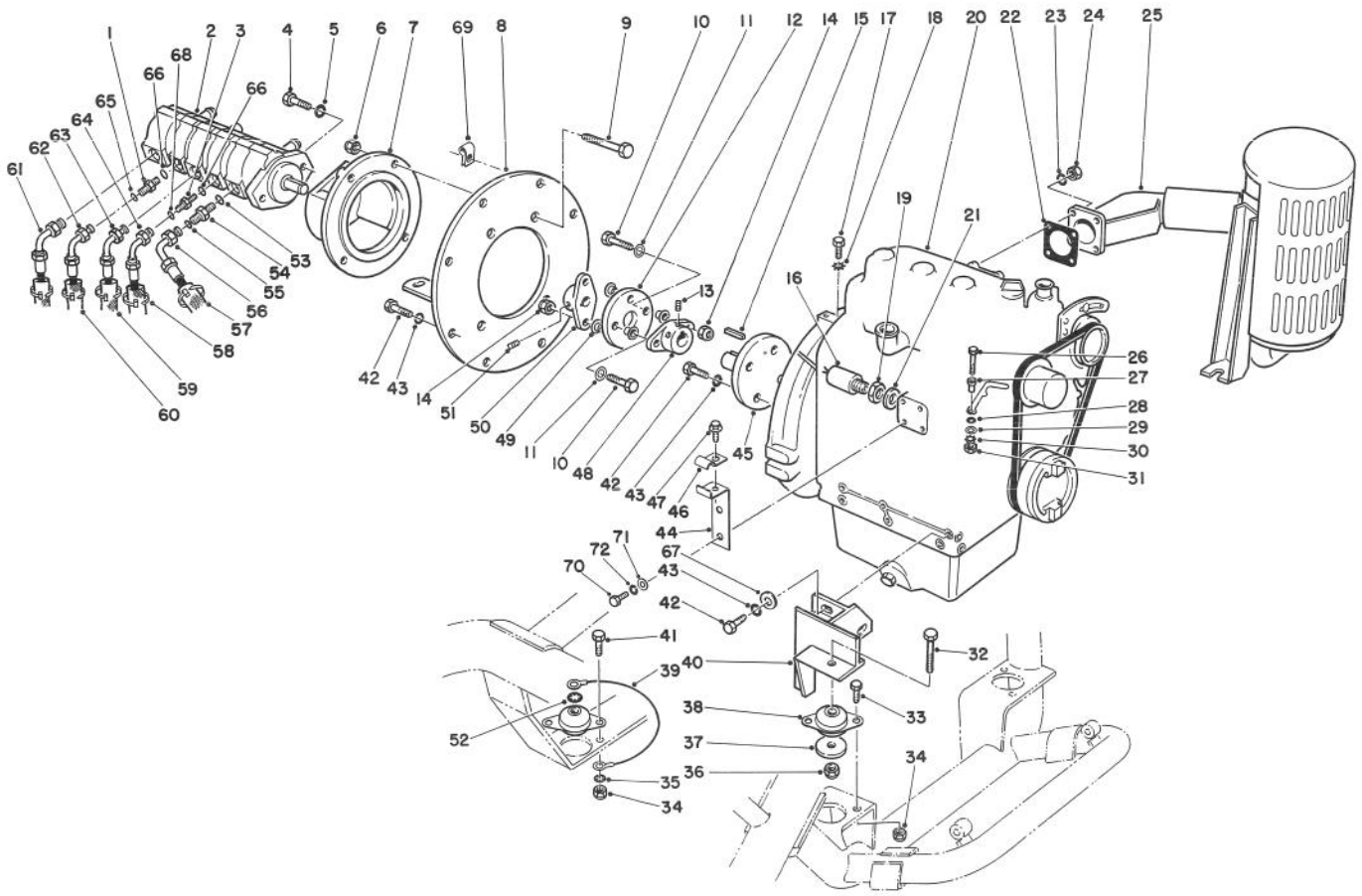
T-0646

ENGINE INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	340-1	Fitting - Hydraulic (Incl. Ref. #65 & 66)	1
2	68-4940	Pump - Gear	1
3	340-2	Fitting - Hydraulic (Incl. Ref. #65 & 68)	3
4	323-8	Screw - Cap, Hex. Hd.	2
5	3253-29	Washer - Lock	2
6	3296-48	Nut - Lock	4
7	68-4930	Mount - Pump	1
8	68-4960	Plate - Flywheel	1
9	324-7	Screw - Cap, Hex. Hd.	4
10	322-6	Screw - Cap, Hex. Hd.	4
11	3256-23	Washer - Flat	4
12	44-2230	Coupling - Rubber	1
13	3241-2	Screw - Set, Sq. Hd.	2
14	3296-29	Nut - Lock	4
15	67-7490	Key	1
16	63-7440	Solenoid - Stop	1
17	70-8470	Screw	1
18	3255-16	Washer - Lock, Int. Tooth	1
19	43-2750	Nut - Jam	1
20	68-4950	Engine Assembly	1
21	43-2740	Gasket - Solenoid	1
22	42-9110	Gasket - Muffler	1
23	42-9850	Washer - Lock	4
24	48-7930	Nut	4

Ref. No.	Part No.	Description	No. Used
25	68-5080	Muffler - Exhaust	1
26	67-5110	Bolt	1
27	67-5100	Bushing	1
28	67-5120	Washer - Spring	1
29	67-5130	Washer - Flat	1
30	67-5140	Washer - Serrated	1
31	67-5150	Nut	1
32	323-11	Screw - Cap, Hex. Hd.	4
33	322-4	Screw - Cap, Hex. Hd.	7
34	3296-29	Nut - Lock	8
35	3254-2	Washer - Lock, Int. Tooth	1
36	3296-59	Nut - Lock	4
37	63-7400	Washer - Rebound	4
38	63-7140	Mount - Shock	4
39	70-8220	Cable - Ground	1
40	68-4990	Bracket - Engine, RH	1
*	68-5050	Bracket - Engine, LH	1
41	322-5	Screw - Cap, Hex. Hd.	1
42	63-7790	Screw	18
43	48-9590	Washer - Lock	18
44	68-5090	Support - Cable, Throttle	1
45	68-4920	Hub - P.T.O.	1
46	2412-31	Clip - Cable	1
47	12-3270	Screw - Washer Hd.	1
48	27-1960	Hub	1
49	27-6600	Spacer	4

*Not Illustrated

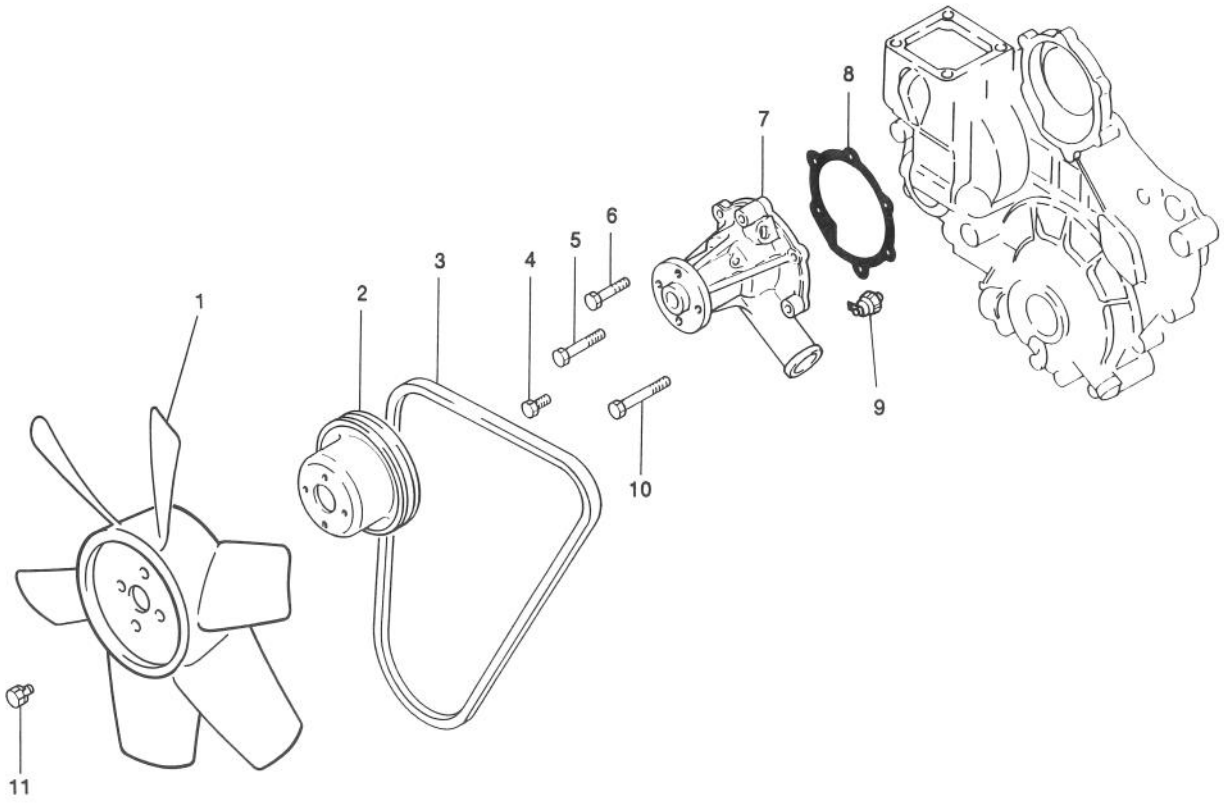


T-0646

ENGINE INSTALLATION ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
50	27-1970	Hub	1
51	3241-6	Screw - Set, Sq. Hd.	2
52	3254-6	Washer - Lock, Int. Tooth	1
53	237-80	O-Ring	1
54	340-6	Fitting - Hydraulic (Incl. Ref. #53 & 55)	1
55	237-30	O-Ring	1
56	68-5810	Hose - Assembly (Incl. Ref.#57 & 58)	1
57	56-7984	Sleeve - Protective	1
58	3290-378	Tie - Cable	10
59	70-8450	Sleeve - Protective	3
60	70-8445	Sleeve - Protective	1
61	68-5850	Hose - Assembly (Incl. Ref. #58 & 59)	1
62	68-5840	Hose - Assembly (Incl. Ref. #58 & 60)	1
63	68-5770	Hose - Assembly (Incl. Ref. #58 & 59)	1
64	68-5710	Hose - Assembly (Incl. Ref. #58 & 59)	1
65	237-35	O-Ring	1
66	237-42	O-Ring	4
67	3256-24	Washer	6
68	237-22	O-Ring	3
69	2412-39	Clamp	1
70	48-7630	Screw - Cap, Metric	1
71	48-8010	Washer - Flat	1
72	48-8020	Washer - Lock	1
*	70-8550	Spark Arrester (Optional)	1

*Not Illustrated

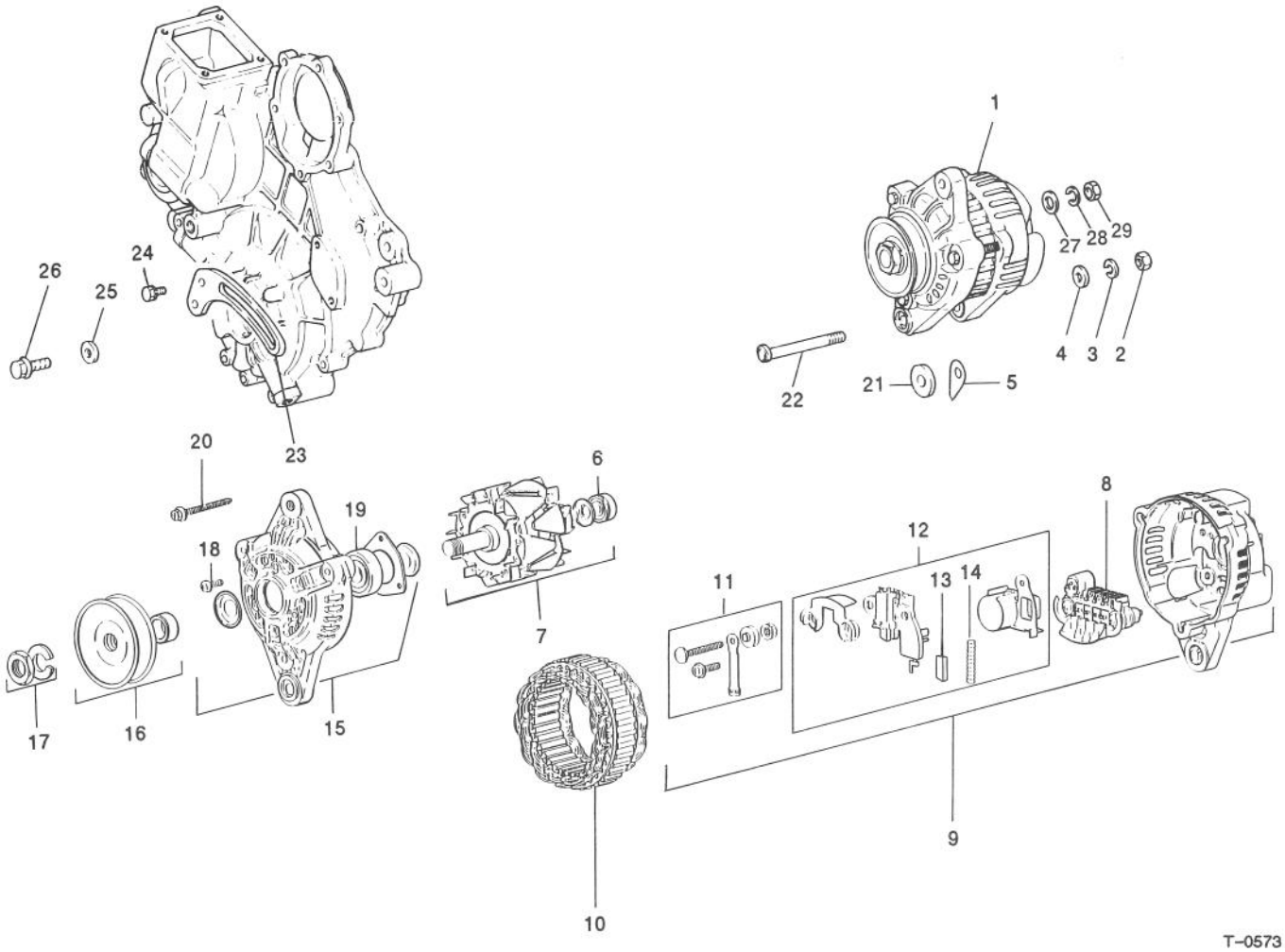


T-0614

WATER PUMP ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	70-8730	Fan	1
2	67-4370	Pulley	1
3	67-4410	Belt - V	1
4	67-2330	Bolt	2
5	67-4400	Bolt	1
6	67-2600	Bolt	1

Ref. No.	Part No.	Description	No. Used
7	70-8740	Pump Assembly	1
8	67-4390	Gasket	1
9	67-4350	Switch Assy. - Press. Oil	1
10	67-2610	Bolt	2
11	42-9490	Bolt & Washer	4

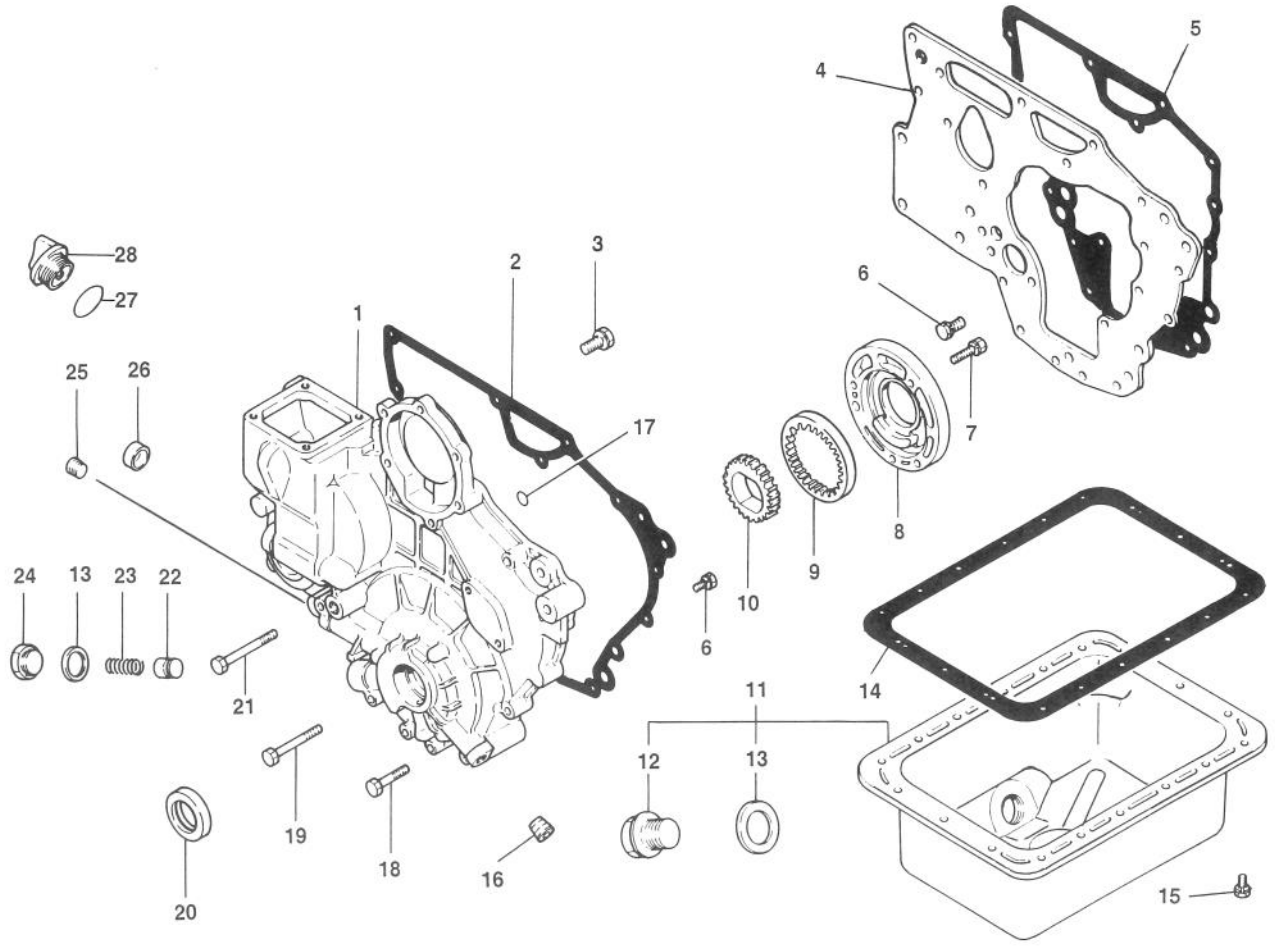


T-0573

ALTERNATOR ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	67-4630	Alternator Assembly (Incl. Ref. #6-17)	1
2	67-4670	Nutd	1
3	67-3260	Washer	1
4	42-9660	Washer	1
5	43-0370	Shim	1
6	67-4870	Bearing - Rear	1
7	67-4860	Rotor Assembly (Incl. Ref. #6)	1
8	67-4930	Rectifier Assembly	1
9	67-4890	Rear Bracket Assembly (Incl. Ref. #8, 11 & 12)	1
10	67-4880	Stator Assembly	1
11	67-4900	Terminal Set	1
12	67-4910	Regulator Assembly (Incl. Ref. #13 & 14)	1
13	67-4920	Brush	2
14	43-0510	Spring - Brush	2

Ref. No.	Part No.	Description	No. Used
15	67-4830	Front Bracket Assembly (Incl. Ref. #18 & 19)	1
16	67-4810	Pulley Set	1
17	43-1920	Nut - Special	1
18	67-4840	Screw - Set	1
19	67-4850	Bearing - Front	1
20	67-4820	Bolt Set	1
21	67-4620	Spacer	1
22	67-4640	Bolt	1
23	67-4650	Brace	1
24	42-9440	Bolt & Washer	1
25	54-8660	Washer	1
26	67-4660	Bolt - Flange	1
27	5-3637	Washer - Flat	1
28	43-5920	Washer - Lock	1
29	43-5970	Nut - Hex.	1



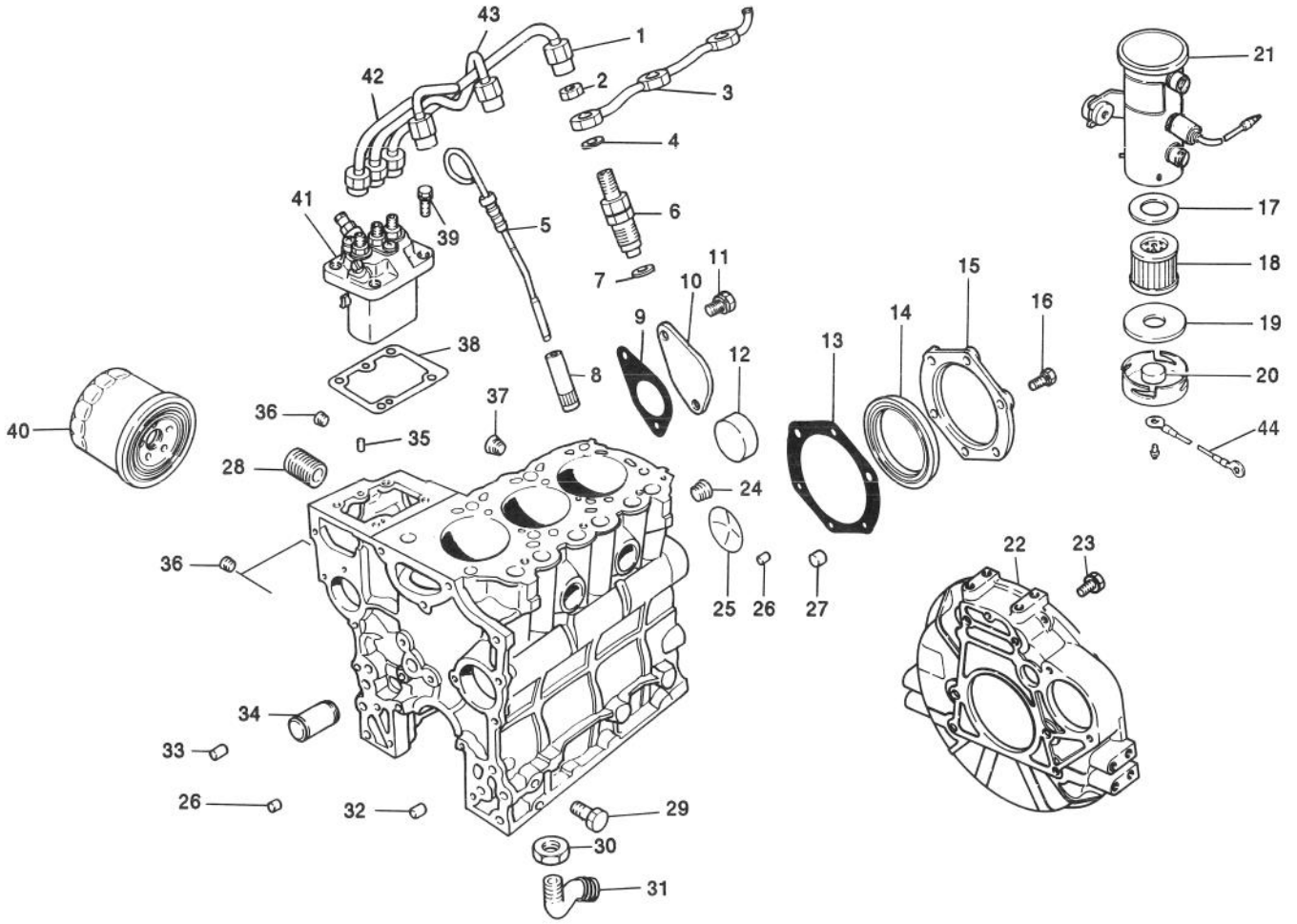
T-0613

CRANKCASE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	67-2490	Crankcase Sub-Assembly	1
2	67-2580	Gasket - Case	1
3	67-2340	Bolt & Washer	3
4	67-2310	Plate	1
5	67-2320	Gasket - Plate	1
6	42-9440	Bolt & Washer	11
7	67-2560	Bolt & Washer	3
8	67-2550	Housing - Pump, Oil	1
9	67-2540	Gear - Outer	1
10	67-2530	Gear - Inner	1
11	67-2470	Oil Pan Assembly (Incl. Ref. #15 & 16)	1
12	42-9260	Plug	1
13	42-7290	Gasket - Drain, Oil	2
14	67-2480	Gasket - Pan, Oil	1
15	42-9490	Bolt & Washer	18

Ref. No.	Part No.	Description	No. Used
16	42-7210	Plug	1
17	67-2630	O-Ring	2
18	67-2600	Bolt	3
19	67-2610	Bolt	4
20	67-2590	Seal - Oil	1
21	67-2620	Bolt	1
22	67-2500	Plunger	1
23	67-2510	Spring	1
24	67-2520	Plug	1
25	67-2570	Plug	1
26	67-2640	Cap	1
27	67-2660	O-Ring	1
28	67-2650	Oil Fill Cap Assembly (Incl. Ref. #27)	1
*	70-8790	GAsket Kit	1

*Not Illustrated

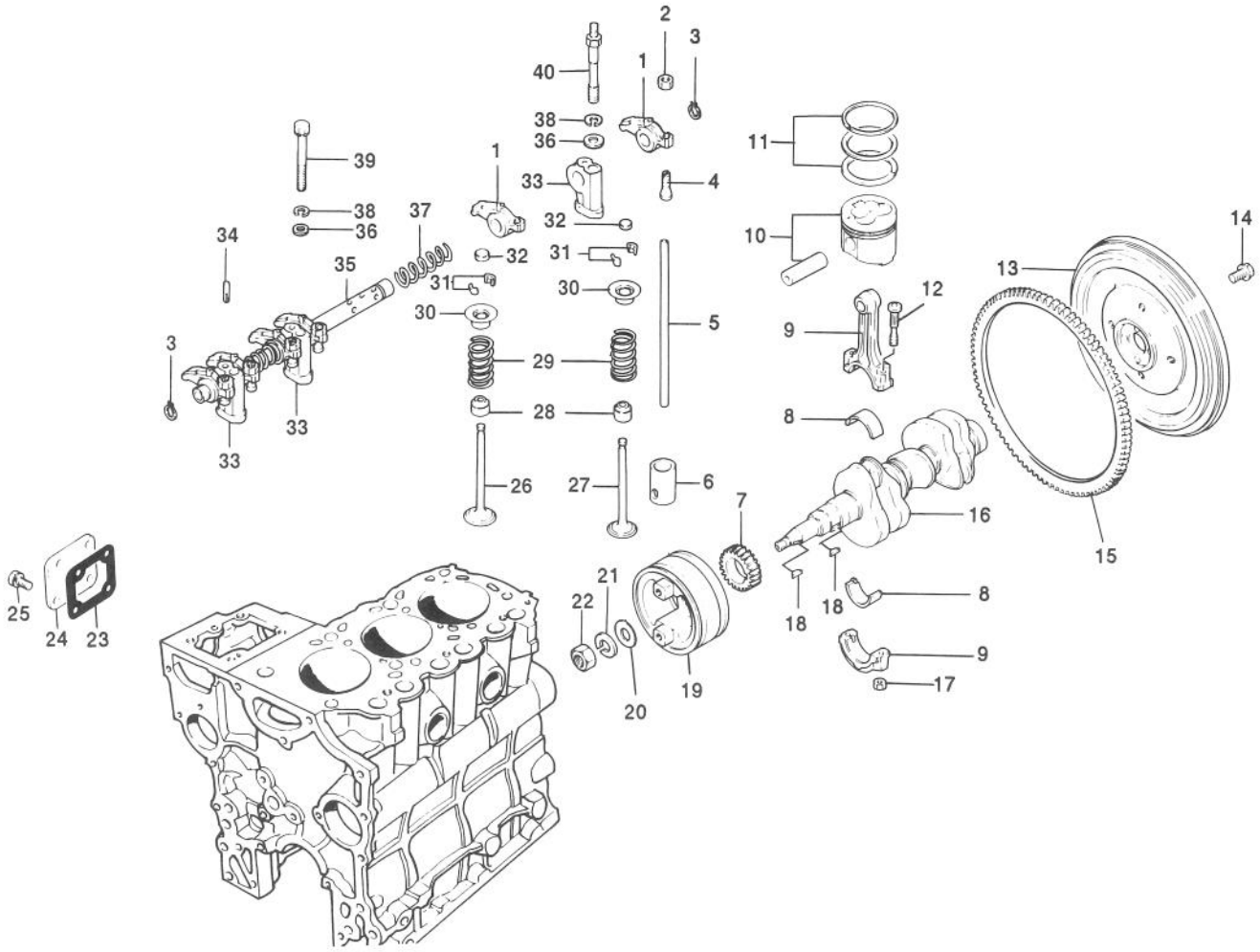


T-0569

FUEL SUPPLY & ENGINE BLOCK ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	67-3420	Pipe Assembly No. 3	1
2	67-3430	Nut	3
3	70-8700	Pipe - Return, Fuel	1
4	67-3440	Gasket	3
5	67-2450	Dipstick	1
6	67-3380	Nozzle & Holder Assembly	1
7	67-3390	Gasket	3
8	67-2220	Guide	1
9	67-2300	Gasket	1
10	67-2290	Cover	1
11	67-2340	Bolt & Washer	2
12	56-0020	Plug	1
13	67-2280	Gasket	1
14	67-2230	Seal - Oil	1
15	67-2270	Case	1
16	67-2330	Bolt	6
17	43-2570	Gasket	1
18	43-2550	Filter	1
19	43-2560	Gasket	1
20	43-2580	Magnet	1
21	53-8150	Pump Assembly (Incl. Ref. #17-20)	1
22	70-8890	Housing - Flywheel	1
23	67-2440	Bolt & Washer	9
24	67-2390	Plug	1
25	67-2350	Plug	1
26	67-2360	Bushing	2
27	67-2380	Bushing	3
28	56-1230	Shaft - Filter, Oil	1
29	67-2460	Bolt	4
30	42-9650	Nut - Jam	1
31	67-4340	Screen Assembly (Incl. Ref. #30)	1
32	67-2370	Bushing	1
33	42-7190	Bushing	1
34	67-2260	Shaft - Idler	1
35	56-0220	Pin	2
36	67-2210	Plug	3
37	56-0100	Plug	1
38	67-3280	Shim - 0.2	1
*	67-3290	Shim - 0.3	1
*	67-3300	Shim - 0.4	1
*	67-3310	Shim - 0.5	1
*	67-3320	Shim - 0.6	1
*	67-3330	Shim - 0.7	1
*	67-3340	Shim - 0.8	1
*	67-3350	Shim - 0.9	1
*	67-3360	Shim - 1.0	1
39	67-3370	Bolt & Washer	4
40	67-4330	Oil Filter Assembly	1
41	70-8690	Pump Assembly	1
42	67-3400	Pipe Assembly No.1	1
43	67-3410	Pipe Assembly No.2	1
44	70-8530	Wire Assembly	1

*Not Illustrated



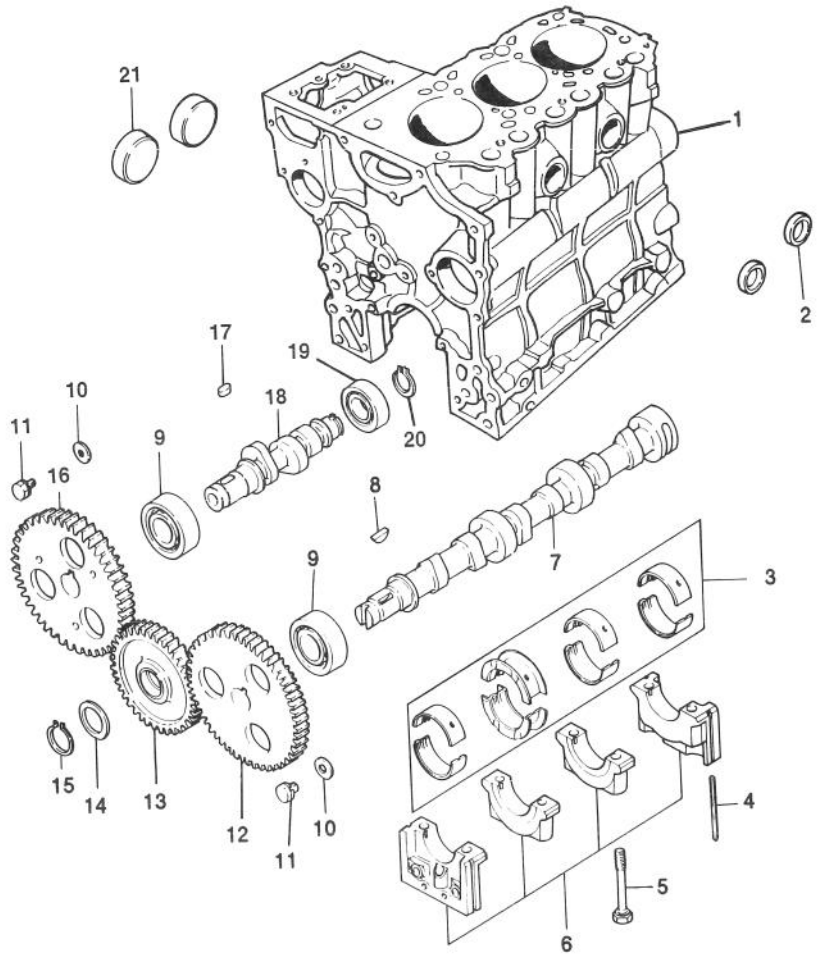
T-0611

VALVES & CRANKSHAFT ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	67-3160	Arm - Rocker	6
2	67-3230	Nut - Jam	6
3	67-3040	Ring - Snap	2
4	67-3210	Screw - Adjusting	6
5	67-3150	Rod - Push	6
6	67-3120	Tappet	6
7	67-2910	Gear	1
8	67-2880	Bearing Set - Std.	1
*	67-2890	Bearing Set - 0.25 U.	1
*	67-2900	Bearing Set - 0.50 U.	1
9	70-8860	Connecting Rod Assembly (Incl. Ref. #8, 9, 12 & 17)	3
10	70-8830	Piston & Pin Set - Std.	1
*	70-8840	Piston & Pin Set - 0.25 U.	1
*	70-8850	Piston & Pin Set - 0.50 U.	1
11	70-8800	Piston Ring Set - Std.	1
*	70-8810	Piston Ring Set - 0.25 U.	1
*	70-8820	Piston Ring Set - 0.50 U.	1
12	67-2860	Bolt	6
13	67-2970	Flywheel Assembly (Incl. Ref. #15)	1
14	67-2990	Bolt	4
15	67-2980	Gear - Ring	1
16	67-2920	Crankshaft	1

Ref. No.	Part No.	Description	No. Used
17	42-9590	Nut	6
18	56-0480	Key - Woodruff	2
19	70-8680	Pulley - Crankshaft	1
20	67-2950	Washer	1
21	67-2960	Washer - Lock	1
22	67-2940	Nut - Jam	1
23	67-4310	Gasket	1
24	67-4250	Cover	1
25	42-9440	Bolt & Washer	4
26	67-3130	Valve - Intake	3
27	67-3140	Valve - Exhaust	3
28	42-7870	Seal	6
29	67-3110	Spring	6
30	67-3100	Retainer	6
31	42-7860	Lock	12
32	67-3180	Cap	6
33	67-3200	Stay - Rocker	3
34	67-3220	Pin	1
35	67-3190	Rocker Shaft Assembly	1
36	42-9660	Washer	3
37	67-3170	Spring	2
38	67-3260	Washer	3
39	42-9510	Bolt	1
40	67-3250	Bolt - Stay, Rocker	2

*Not Illustrated



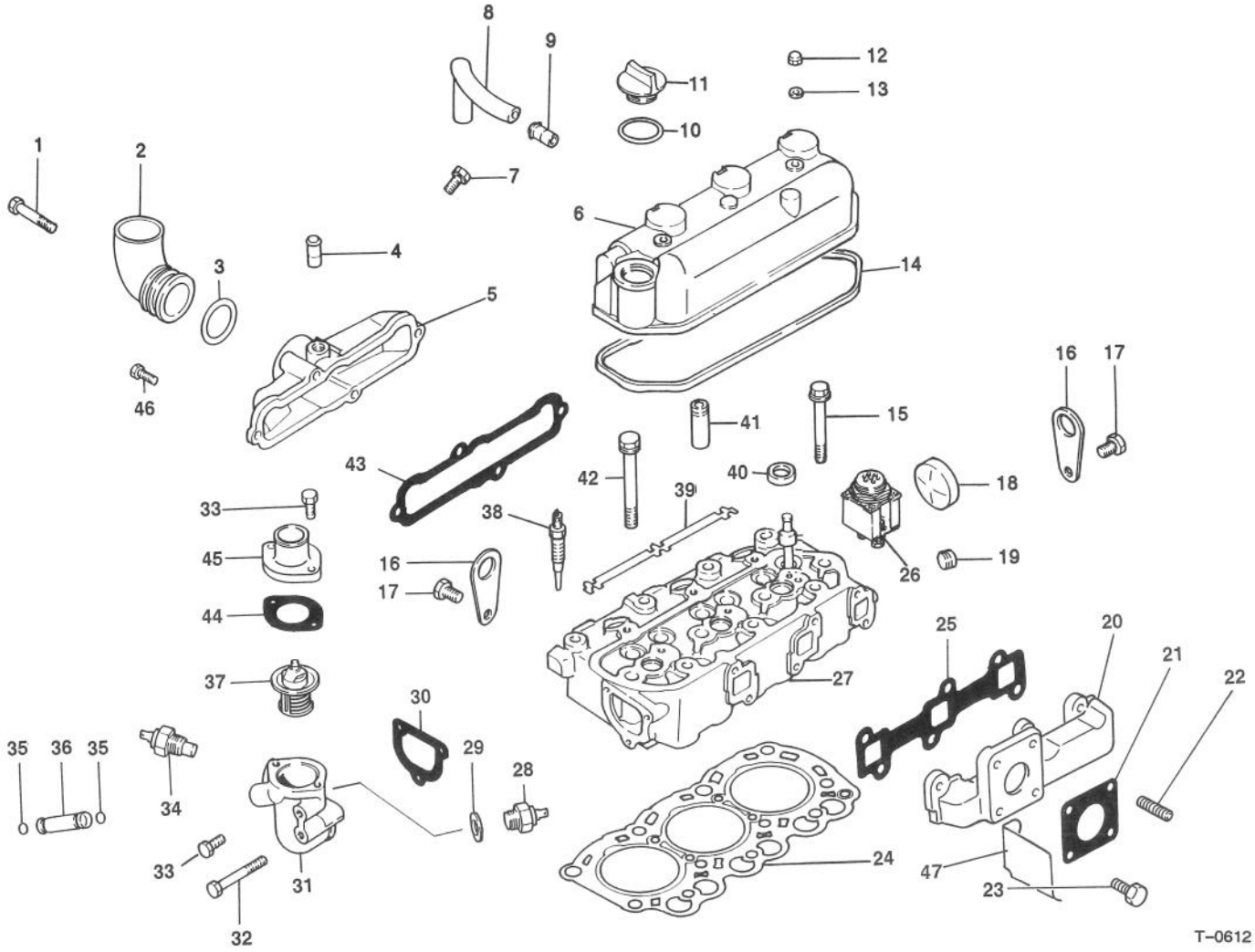
T-0610

CAMSHAFT ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	70-8650	Block - Sub-Assembly (Incl. Ref. #2, 5-6 & 21)	1
2	42-7080	Cap	2
3	67-2400	Bearing Set - Std.	1
*	67-2410	Bearing Set - 0.25	1
*	67-2420	Bearing Set - 0.50	1
4	67-2200	Seal	4
5	67-2250	Bolt	8
6		Cap Assembly	1
7	67-3010	Camshaft	1
8	56-0480	Key - Woodruff	1
9	67-3030	Bearing	2

Ref. No.	Part No.	Description	No. Used
10	67-3000	Washer	2
11	42-9490	Bolt & Washer	2
12	67-3020	Gear	1
13	67-3090	Gear Assembly	1
14	67-3040	Plate	1
15	56-1060	Ring - Snap	1
16	67-3070	Gear	1
17	42-7840	Key	1
18	67-3060	Shaft	1
19	67-3050	Bearing	1
20	67-3080	Ring - Snap	1
21	56-0020	Plug	2

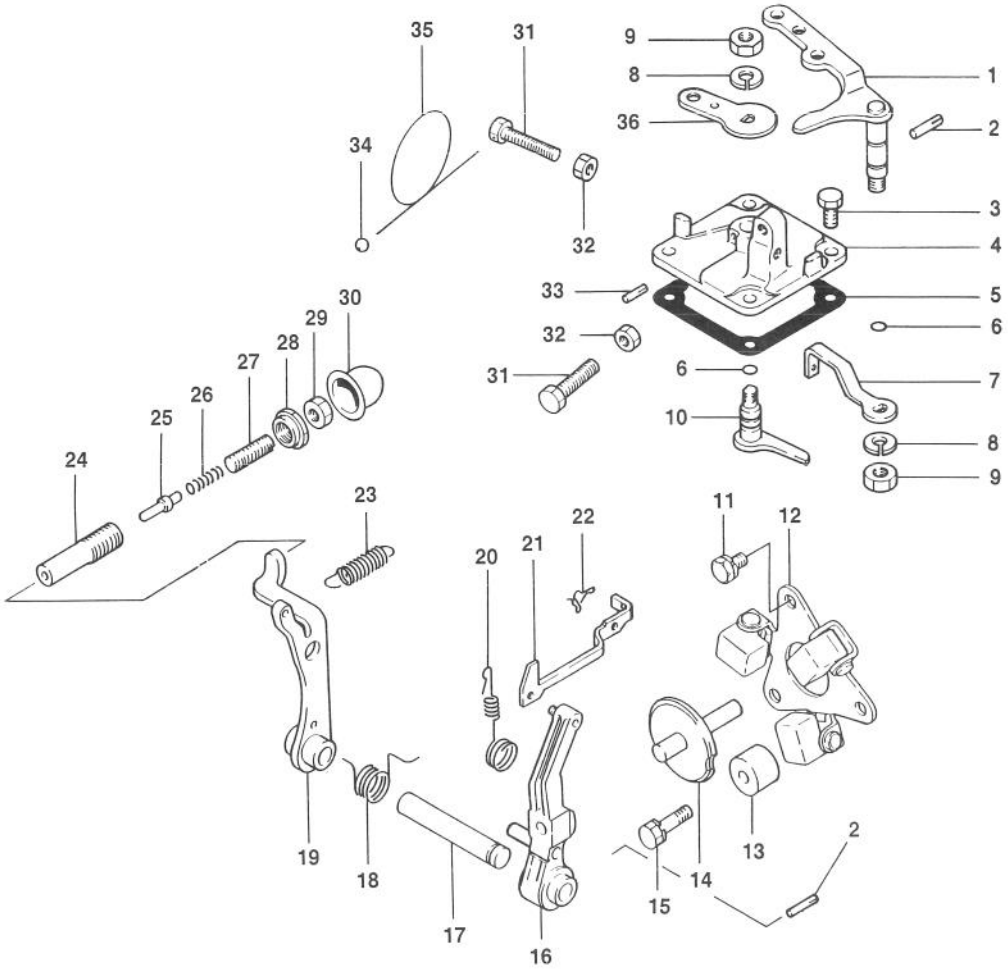
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CYLINDER HEAD ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	67-4400	Bolt	2
2	67-4520	Pipe	1
3	67-4540	O-Ring	1
4	42-7510	Pipe	1
5	67-4530	Cover - Intake (Incl. Ref. #4)	1
6	67-2750	Cover Assembly (Incl. Ref. #9)	1
7	42-9430	Bolt & Washer	1
8	67-2670	Hose - Breather	1
9	42-7510	Pipe	1
10	67-2660	O-Ring	1
11	67-2650	Oil Filler Cap Assembly (Incl. Ref. #10)	1
12	67-2770	Nut - Cap	2
13	67-2780	Washer	2
14	67-2760	Gasket	1
15	67-2140	Bolt - Flange	3
16	67-2680	Hanger - Engine	2
17	67-2340	Bolt & Washer	2
18	56-0020	Plug - Expansion	1
19	67-2570	Plug - Taper	1
20	70-8750	Manifold - Exhaust	1
21	42-9110	Gasket	1
22	42-9570	Stud	4
23	67-4590	Bolt	6

Ref. No.	Part No.	Description	No. Used
24	70-8670	Gasket - Head, Cylinder	1
25	67-4570	Gasket - Manifold, Exhaust	1
26	67-4700	Lamp - Glow	1
27	70-8660	Cylinder Head Assembly (Incl. Ref. #18, & 40-41)	1
28	67-4500	Switch - Thermal	1
29	67-4490	Gasket	1
30	67-4460	Gasket - Fitting, Thermostat	1
31	67-4450	Fitting - Thermostat	1
32	67-4470	Bolt	1
33	67-2330	Bolt	4
34	67-4510	Nut - Gauge, Temp.	1
35	43-2710	O-Ring	2
36	67-4480	Pipe - By-Pass	1
37	67-5050	Thermostat	1
38	67-4680	Plug - Glow	3
39	67-4690	Plate - Plug, Glow	1
40	67-2710	Cap - Sealing	3
41	67-2700	Guide - Valve	6
42	67-2730	Bolt	8
43	67-4550	Gasket - Manifold, Intake	1
44	67-4430	Gasket - Outlet, Water	1
45	67-4420	Fitting - Outlet, Water	1
46	67-2330	Bolt	2
47	72-6140	Shield - Heat, Alternator	1



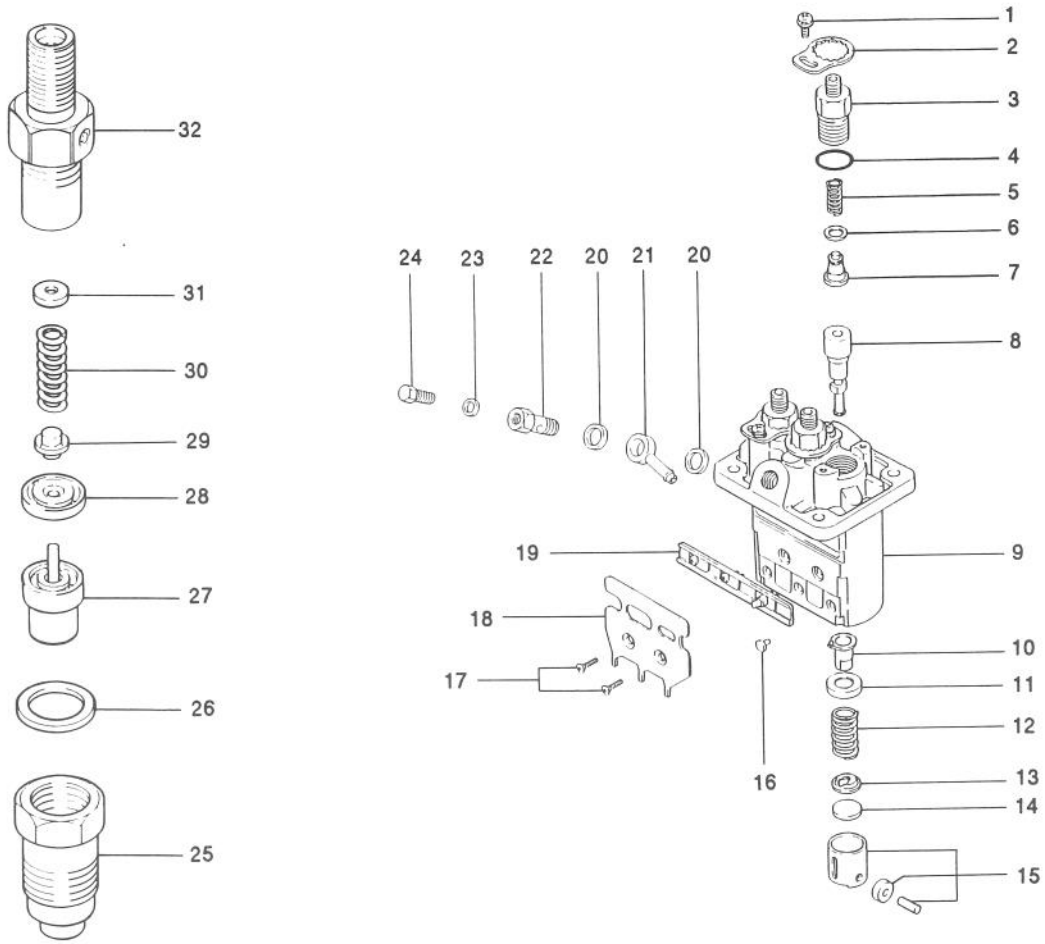
T-0615

GOVERNOR ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	67-3990	Speed Control Lever Assy.	1
2	67-4000	Pin	2
3	67-4270	Bolt	4
4	67-4130	Cover - Governor	1
5	67-4160	Gasket	1
6	42-8830	O-Ring	2
7	67-4020	Lever - Spring, Governor	1
8	67-3260	Washer	2
9	42-9640	Nut - Jam	2
10	67-4140	Lever - Stop Assembly	1
11	42-9430	Bolt & Washer	2
12	67-4040	Weight Assembly	1
13	67-4010	Stopper	1
14	67-4070	Sliding Shaft Assembly	1
15	67-4280	Bolt & Washer	1
16	67-4060	Governor Lever Assembly	1
17	67-4050	Shaft	1
18	67-5040	Spring	1
19	67-4090	Tension Lever Assembly	1
20	70-8720	Spring - Tie Rod	1
21	67-4030	Rod - Tie	1

Ref. No.	Part No.	Description	No. Used
22	67-4080	Clip	1
23	67-4260	Spring	1
24	67-4210	Case - Torque Spring	1
25	67-4230	Stopper	1
26	67-4190	Spring - Torque	1
27	67-4220	Screw - Adjusting	1
28	67-4200	Nut - Special	1
29	67-4180	Nut	1
30	67-4240	Cap	2
31	42-9420	Bolt	2
32	67-4290	Nut	2
33	67-4120	Pin	1
34	42-8690	Metal - Sealing	1
35	42-8700	Wire	1
36	67-4150	Lever - Stop	1
*	67-4110	Cover Assembly (Incl. Ref. #4, 6, 8-10, 33 & 36)	1
*	67-4170	Spring Set (Incl. Ref. #24-29)	1

*Not Illustrated



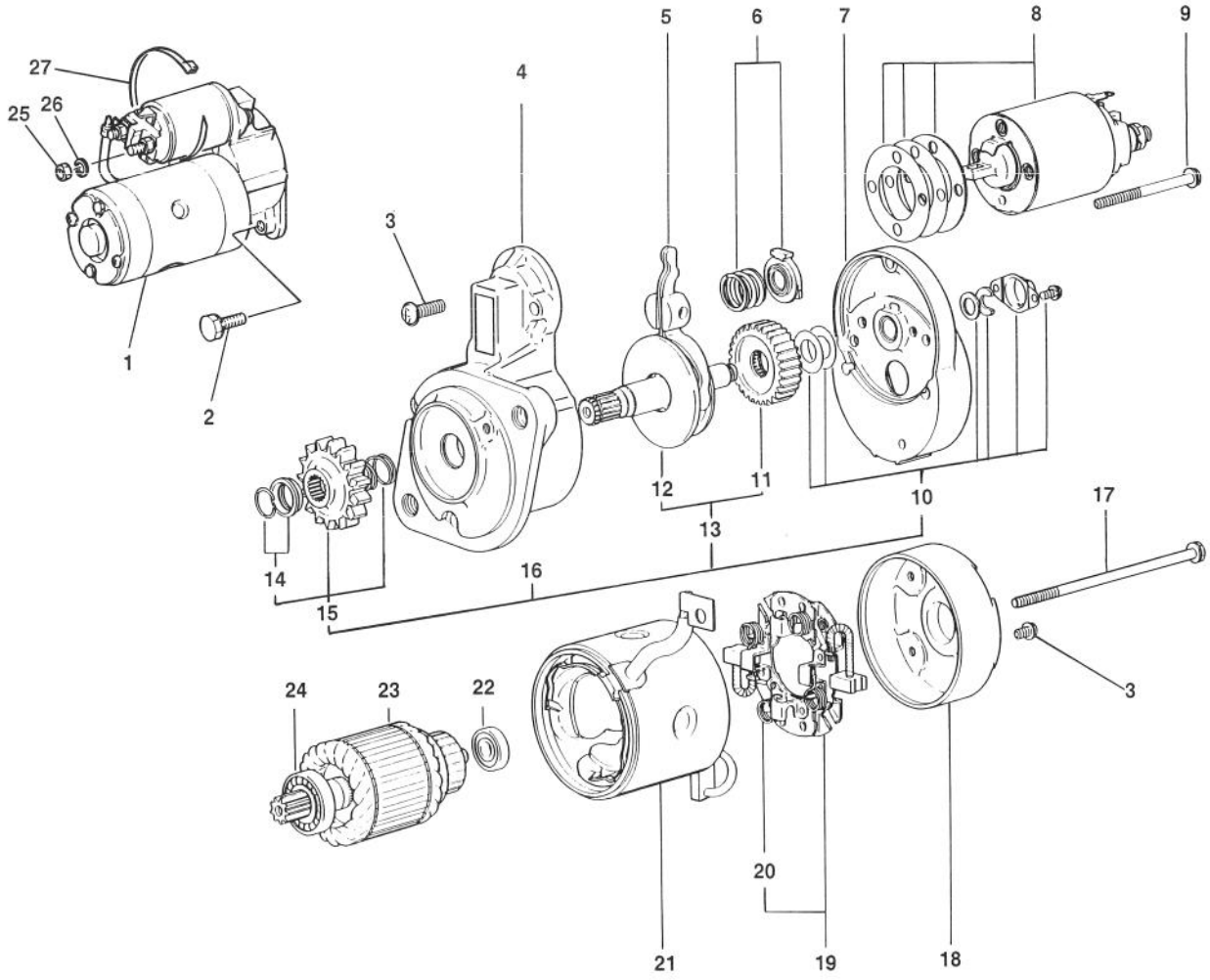
T-0570

FUEL INJECTION PUMP ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	67-3770	Screw & Washer	3
2	67-3760	Plate - Lock	3
3	67-3470	Holder - Delivery Valve	3
4	67-3480	O-Ring	3
5	67-3490	Spring	3
6	42-8240	Gasket	3
7	67-6500	Valve	3
8	70-8710	Element	3
9	67-3460	Housing - Pump	1
10	67-3520	Sleeve	3
11	67-3530	Seat	3
12	67-3540	Spring	3
13	67-3550	Seat	3
14	67-3560	Plate - Shim 1.85	1
*	67-3570	Plate - Shim 1.9	1
*	67-3580	Plate - Shim 1.95	1
*	67-3590	Plate - Shim 2.0	1
*	67-3600	Plate - Shim 2.05	1
*	67-3610	Plate - Shim 2.1	1
*	67-3620	Plate - Shim 2.15	1
*	67-3630	Plate - Shim 2.2	1
*	67-3640	Plate - Shim 2.25	1
*	67-3650	Plate - Shim 2.3	1
*	67-3660	Plate - Shim 2.35	1
*	67-3670	Plate - Shim 2.4	1
*	67-3680	Plate - Shim 2.45	1
*	67-3690	Plate - Shim 2.5	1
15	67-3700	Tappet Assembly	3
16	67-3810	Pin	3

Ref. No.	Part No.	Description	No. Used
17	67-3790	Screw	2
18	67-3800	Bracket	1
19	67-3780	Rack Assembly	1
20	67-3750	Washer	2
21	67-3740	Nipple	1
22	67-3730	Screw	1
23	67-3720	Washer	1
24	67-3710	Screw - Bleed, Air	1
25	67-3970	Nut	3
26	67-3980	Gasket	3
27	67-3960	Nozzle Assembly	3
28	67-3950	Piece	3
29	67-3940	Pin	3
30	67-3930	Spring	3
31	67-3830	Washer - 1.25	1
*	67-3840	Washer - 1.3	1
*	67-3850	Washer -1.35	1
*	67-3860	Washer - 1.4	1
*	67-3870	Washer - 1.45	1
*	67-3880	Washer - 1.5	1
*	67-3890	Washer - 1.55	1
*	67-3900	Washer - 1.6	1
*	67-3910	Washer - 1.65	1
*	67-3920	Washer - 1.7	1
32	67-3820	Body	3
*	70-8690	Pump Assembly (Incl. Ref. #1-24)	1
*	67-3380	Nozzle & Holder Assembly (Incl. Ref. #25-32)	3

*Not Illustrated

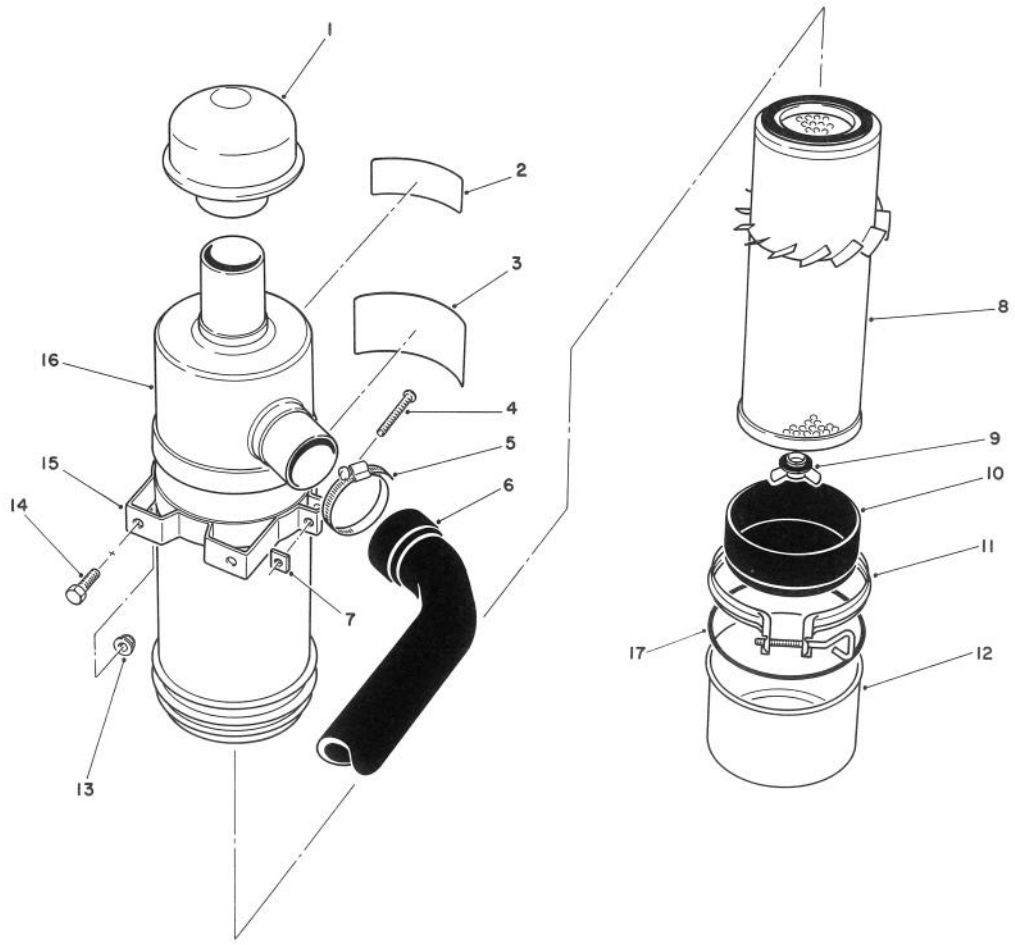


T-0616

STARTER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	70-8760	Starter Assembly (Incl. Ref. #3-24)	1
2	67-4610	Bolt & Washer	2
3	56-1510	Screw - Set	1
4	70-8770	Front Basket Assembly	1
5	67-4720	Lever Assembly	1
6	67-4730	Spring Set	1
7	70-8780	Center Bracket Assembly	1
8	67-4750	Switch Assembly	1
9	52-1570	Bolt Set	1
10	56-1680	Cover Set	1
11	56-1670	Gear	1
12	67-4790	Shaft Assembly	1
13	67-4780	Gear Set (Incl. Ref. #11 & 12)	1
14	56-1640	Stopper Set	1
15	67-4770	Pinion Set (Incl. Ref. #14)	1

Ref. No.	Part No.	Description	No. Used
16	67-4760	Shaft Assembly (Incl. Ref. #10, 13 & 15)	1
17	56-1610	Bolt	1
18	56-1720	Rear Bracket Assembly	1
19	56-1700	Brush Holder Assembly (Incl. Ref. #20)	1
20	56-1710	Spring - Brush	4
21	67-4800	Yoke Assembly	1
22	56-1600	Bearing - Rear	1
23	56-1580	Armature Set (Incl. Ref. #22 & 24)	1
24	56-1590	Bearing - Front	1
25	57-6390	Nut - Hex.	2
26	42-9850	Washer - Lock	2
27	3290-379	Tie - Cable	2

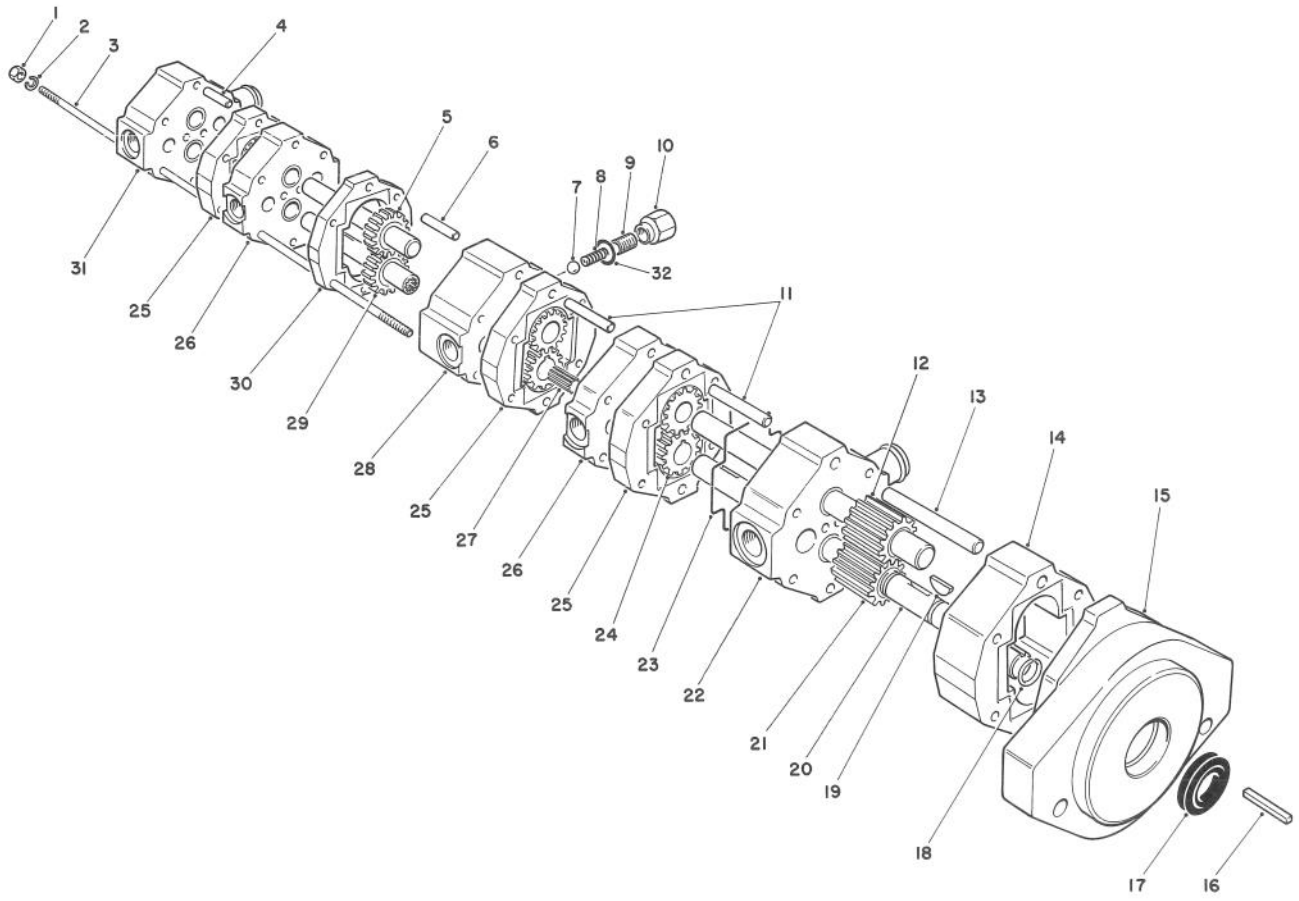


T-0636

AIR CLEANER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	27-7180	Cap - Inlet, Air Cleaner	1
2	67-1700	Decal - Fluid, Starting	1
3	27-7160	Decal - Instructions	1
4	3258-19	Screw - Round Head	2
5	2412-42	Clamp - Hose	2
6	68-5900	Hose - Cleaner, Air	1
7	32107-11	Nut	2
8	27-7110	Element - Cleaner, Air	1
9	27-7120	Nut & Gasket Assembly	1
10	27-7140	Skirt - Baffle	1

Ref. No.	Part No.	Description	No. Used
11	27-7130	Clamp Assembly	2
12	27-7150	Cap Assembly	1
13	32128-20	Nut - Lock, Flange	4
14	322-2	Screw - Cap, Hex. Hd.	4
15	27-7170	Band Assembly (Incl. Ref. #4 & 7)	2
16	27-7100	Air Cleaner Assembly (Incl. Ref. #3 & 8-12)	1
17	80-3330	Gasket	1

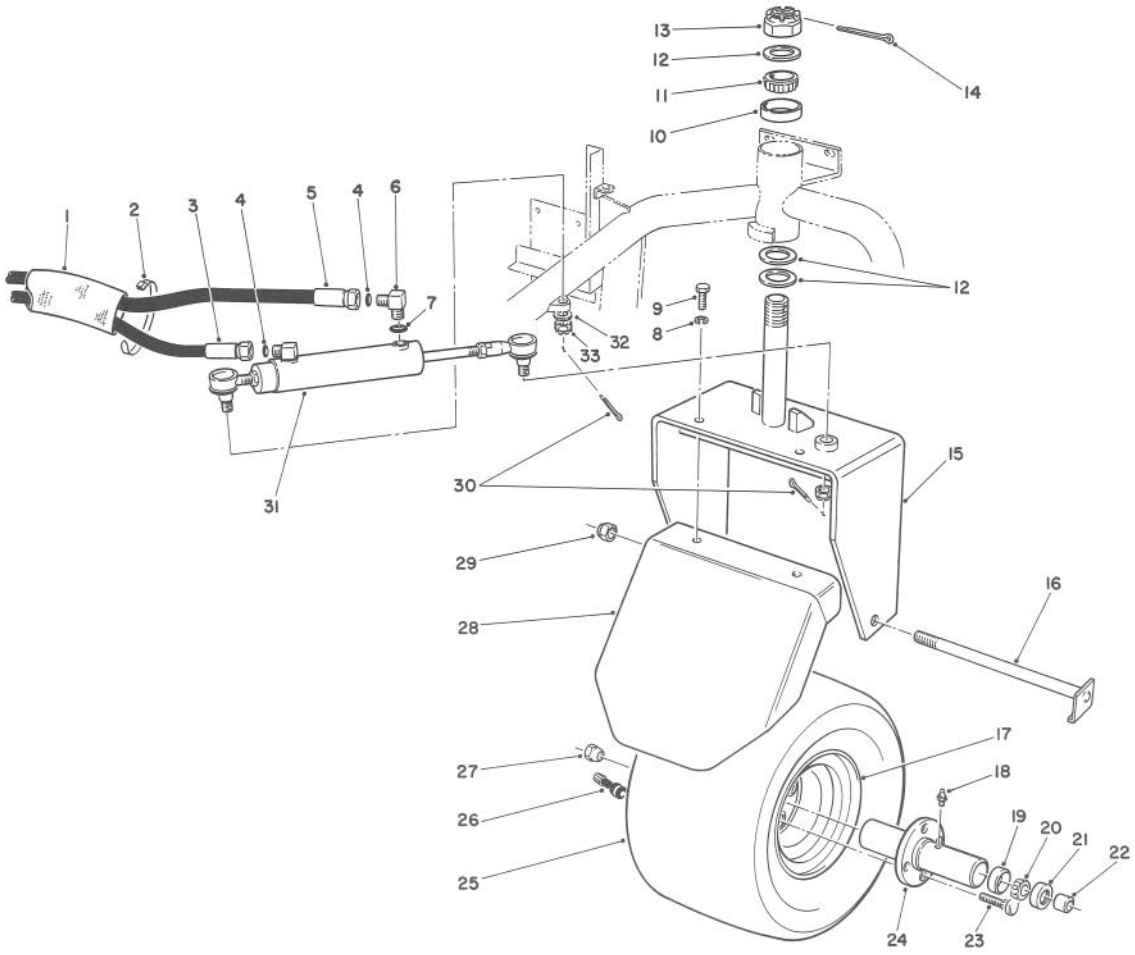


T-0645

HYDRAULIC PUMP 68-4940

Ref. No.	Part No.	Description	No. Used
1	3217-6	Nut - Lock	4
2	354-16	Washer - Lock	4
3	354-17	Stud - Threaded	4
4	354-11	Pin - Dowel	2
5	354-9	Idler Shaft - Gear Assy.	1
6	354-12	Pin - Dowel	2
7		Ball - Valve	1
8		Spring - Compression	1
9		Adjuster - Valve	1
10		Cap - Adjuster, Valve	1
11	354-13	Pin - Dowel	4
12	354-10	Ider Shaft - Gear Assy.	1
13	354-14	Pin - Dowel	2
14	353-971	Plate - Gear 66B	1
15	354-2	Body Assembly	1
16	5-0946	Key - Square	1
17	354-15	Seal - Shaft	1

Ref. No.	Part No.	Description	No. Used
18	353-886	Ring - Retaining	2
19	353-884	Key - Woodruff	4
20	354-1	Shaft - Drive	1
21	353-964	Gear - 66B	1
22	354-3	Bearing Plate Assembly	1
23	353-922	Seal - Ring	10
24	353-967	Gear - 33B	6
25	353-969	Plate - Gear 33B	3
26	353-923	Bearing Plate Assembly	2
27	354-5	Adapter - Splined	1
28	354-4	Bearing Plate Assembly (Incl. Ref. #7-10 & 32)	1
29	354-8	Drive Shaft - Gear Assy.	1
30	354-6	Plate - Gear 18B	1
31	354-7	Cover Assembly	1
32	354-35	Gasket	1

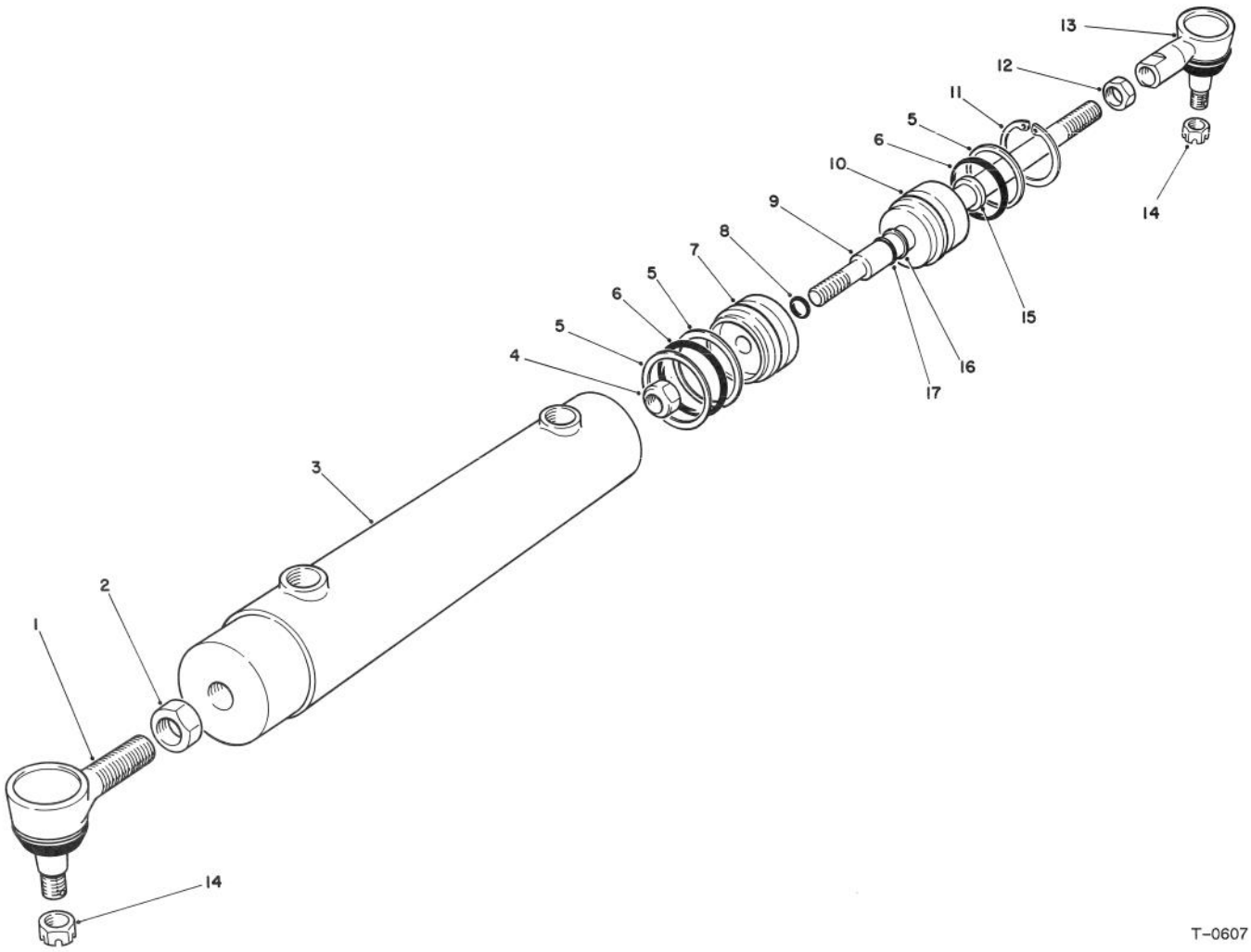


T-0638

REAR WHEEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	56-7983	Sleeve - Protective	1
2	3290-378	Tie - Cable	2
3	68-5750	Hose - Hydraulic	1
4	237-35	O-Ring	2
5	68-5760	Hose - Hydraulic	1
6	340-132	Fitting - Hydraulic (Incl. Ref. #4 & 7)	2
7	237-78	O-Ring	2
8	3253-4	Washer - Lock	2
9	322-3	Screw - Cap, Hex. Hd.	2
10	254-61	Cup - Bearing	2
11	254-70	Cone - Bearing	2
12	18-6320	Washer - Thrust	3
13	32136-9	Nut - Castle	1
14	3272-37	Pin - Cotter	1
15	70-8330	Fork - Caster	1
16	70-8370	Bolt - Wheel, Castor	1
17	242-86	Rim	1

Ref. No.	Part No.	Description	No. Used
18	302-5	Fitting - Grease	1
19	254-79	Cup - Bearing	2
20	254-78	Cone - Bearing	2
21	253-111	Seal - Bearing	2
22	70-8490	Spacer	2
23	10-6830	Stud - Drive	4
24	75-9440	Hub Assembly (Incl. Ref. #18, 19 & 23)	1
25	70-8500	Tire	1
26	232-24	Stem - Valve	1
27	242-50	Nut - Lock	4
28	70-8400	Fender - Rear	1
29	3296-50	Nut - Lock	1
30	3274-4	Pin - Cotter	2
31	68-4770	Cylinder - Steering, Hyd.	1
32	3256-24	Washer - Flat	1
33	32136-4	Nut - Slotted	2

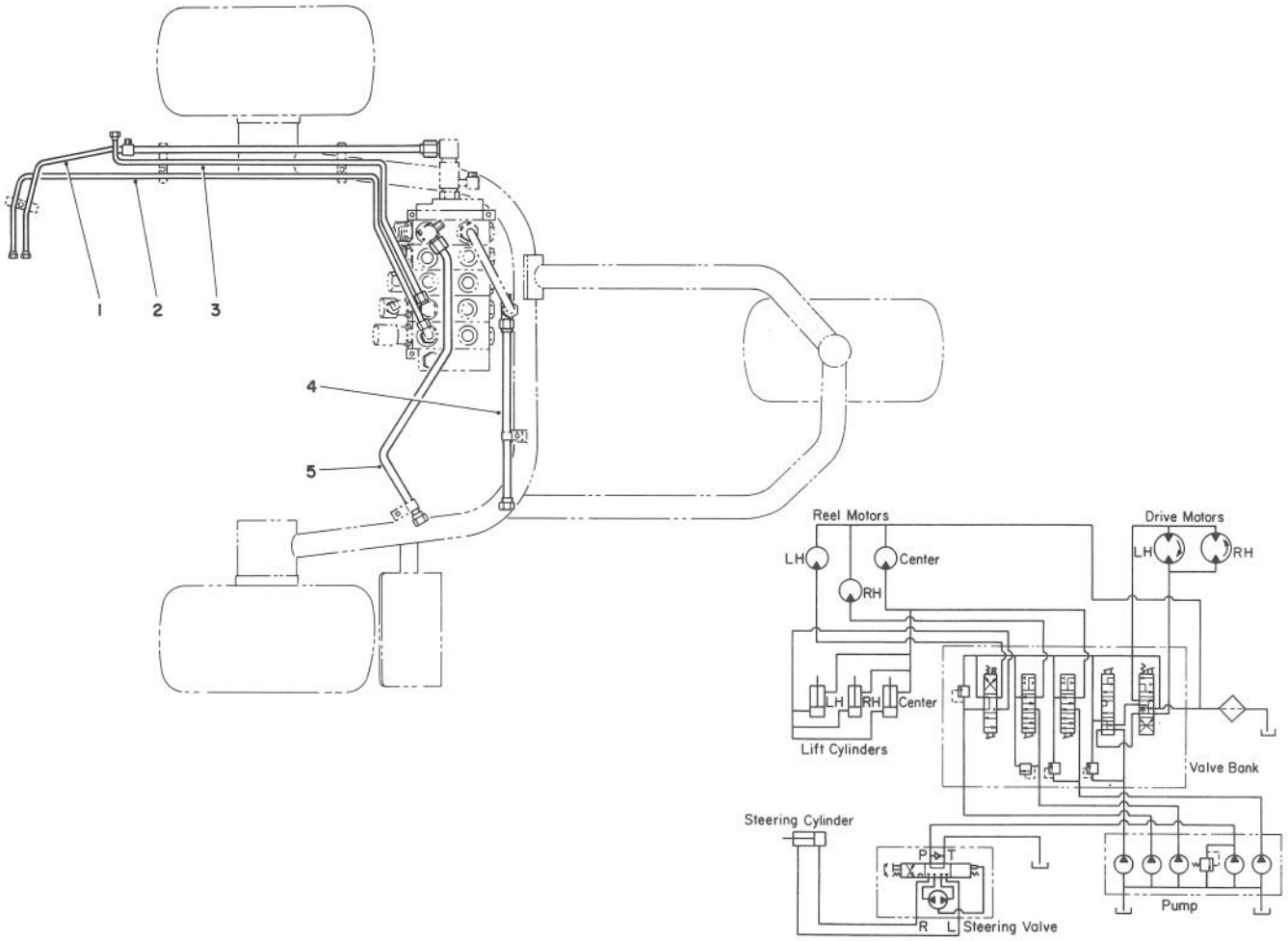


T-0607

HYDRAULIC STEERING CYLINDER

Ref. No.	Part No.	Description	No. Used
1	21-0140	Joint - Ball (Incl. Ref. #14)	1
2	3219-5	Nut - Jam	1
3	68-4820	Barrel	1
4	32152-7	Nut - Lock	1
5		Washer - Backup	3
6		O-Ring	2
7	68-4790	Piston - Cylinder	1
8		O-Ring	1
9	68-4800	Shaft - Cylinder	1
10	68-4780	Head - Cylinder	1
11	68-4810	Ring - Retaining	1

Ref. No.	Part No.	Description	No. Used
12	3218-5	Nut - Jam	1
13	68-5150	Joint - Ball (Incl. Ref. #14)	1
14	32136-4	Nut - Castle	2
15		Seal - Dust	1
16		Washer - Backup	1
17		Seal - Dust	1
*	68-4830	Cylinder Repair Kit (Incl. Ref. #5-6, 8 & 14-15)	1
*	68-4770	Hydraulic Steering Cylinder (Incl. Ref. #3-11 & 15-17)	1

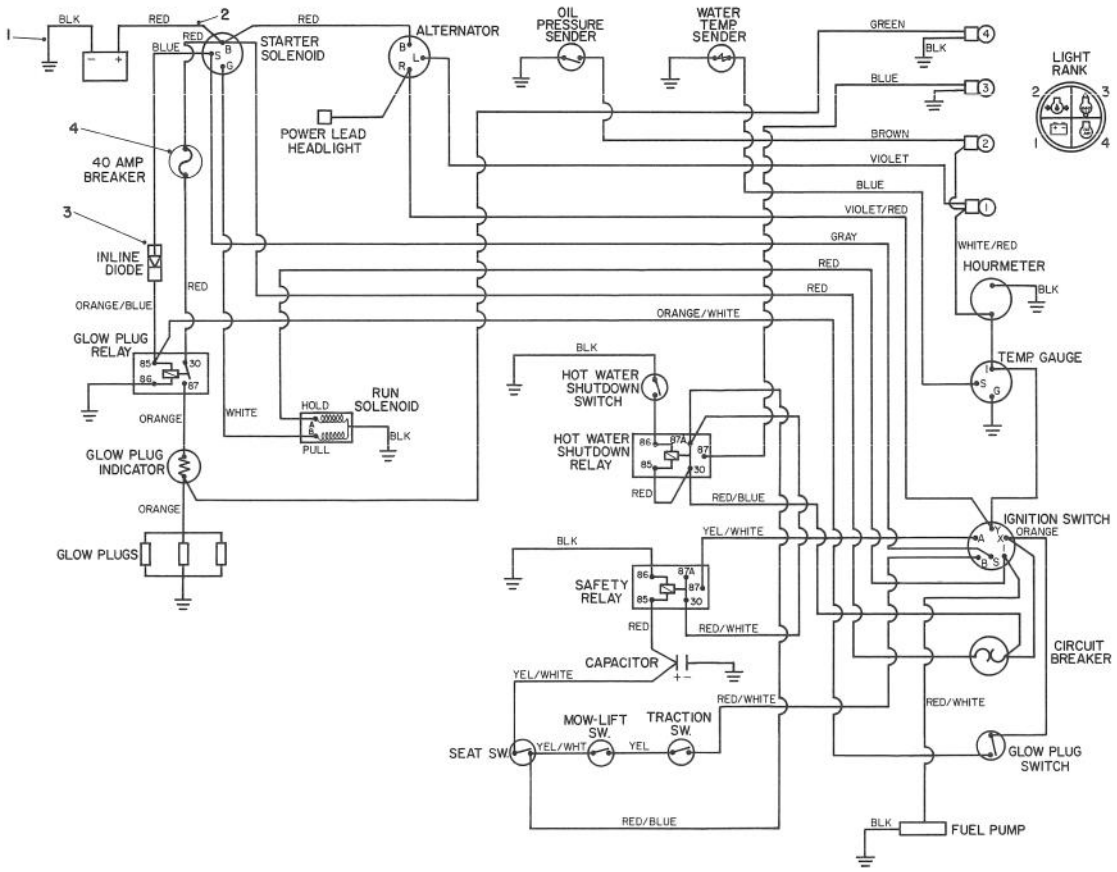


T-0647

HYDRAULIC SYSTEM ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	63-4040	Tube - Hydraulic	1
2	63-4020	Tube - Hydraulic	1
3	63-4030	Tube - Hydraulic	1

Ref. No.	Part No.	Description	No. Used
4	70-7120	Tube - Hydraulic	1
5	70-7130	Tube - Hydraulic	1



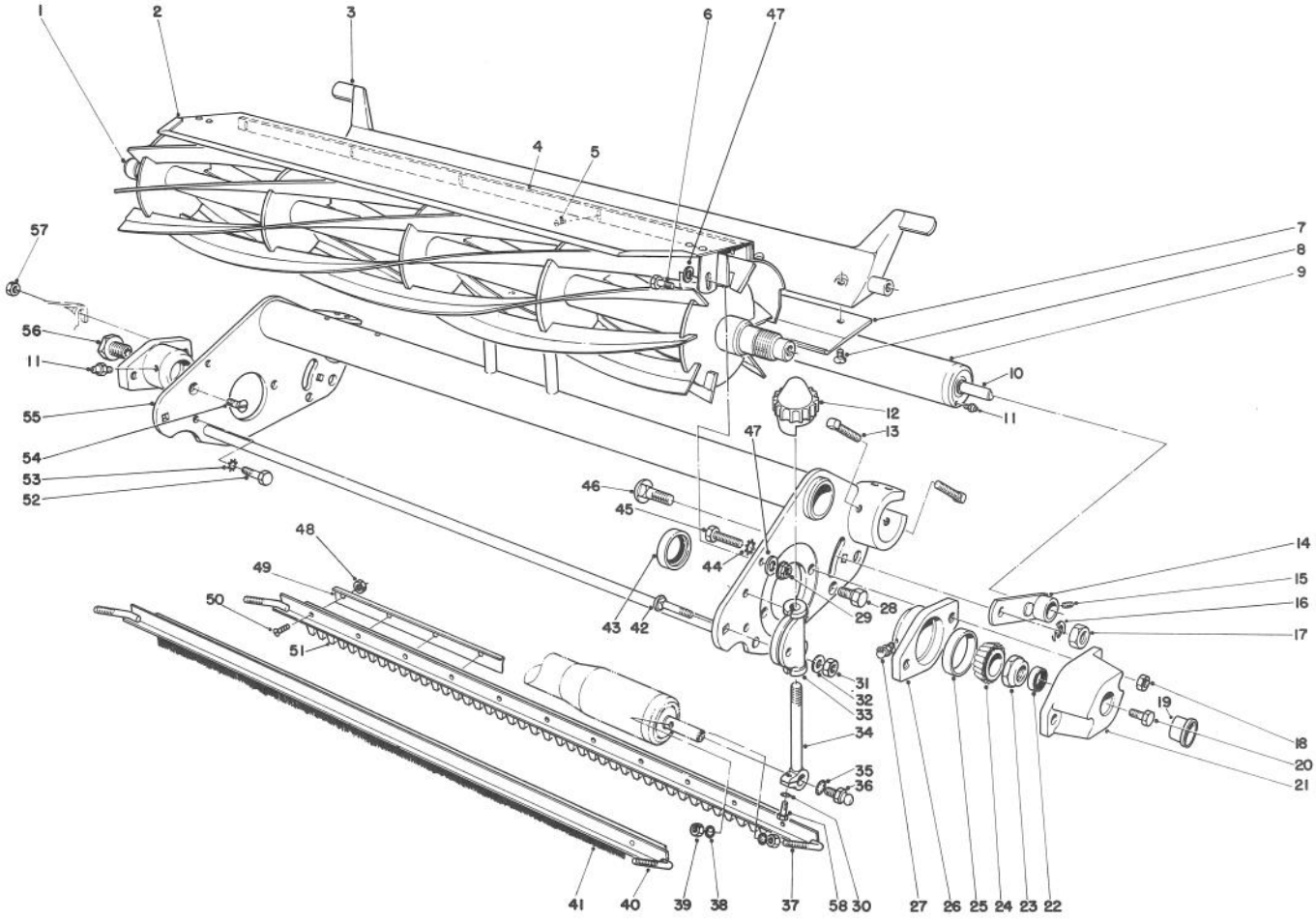
T-0819

ELECTRICAL SCHEMATIC

Ref. No.	Part No.	Description	No. Used
1	68-5500	Cable - Battery, Positive	1
2	68-5460	Cabe - Battery, Negative	1
3	67-7130	Diode - Inline	1

Ref. No.	Part No.	Description	No. Used
4	70-8570	Breaker - Circuit	1
*	68-5190	Wire Harness Assembly (Incl. Ref. #3 & 4)	1

*Not Illustrated



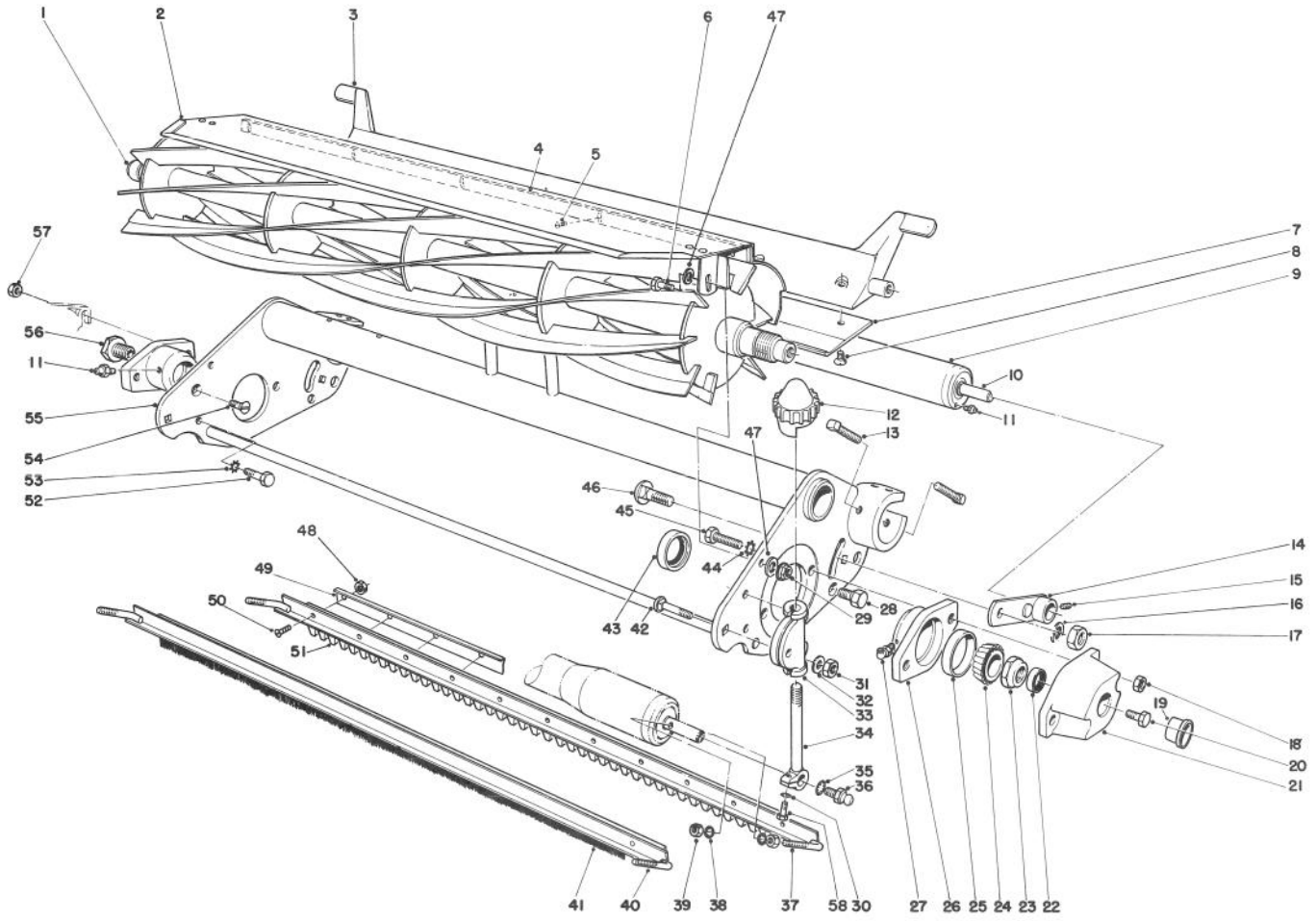
T-0307

CUTTING UNIT MODEL NO. 04405 & 04408

Ref. No.	Part No.	Description	No. Used
1	12-3599	Reel Assy. 8 Blade (04408)	1
*	12-8779	Reel Assy. 5 Blade (04405)	1
2	36-7190	Grass Shield	1
3	10-4930	Bed Bar	1
4	36-7260	Cut-Off Bar	1
5	32144-73	Screw - Round Hd.	5
6	321-5	Screw - Cap, Hex. Hd.	2
7	63-8500	Bed Knife 1/8"	1
*	62-2510	Bed Knife 3/16"	1
*	63-8550	Bed Knife - Tournament	1
*	63-8610	Bed Knife - Fairway	1
†8	57-4910	Screw - Special	7
9	21-8450	Rear Roller Assembly (Incl. Ref. #10 & 11)	1
10	21-8430	Rear Bearing	2
11	302-5	Fitting - Grease	3
12	10-5040	Knob - Height Adjustment	2
13	3243-13	Screw - Set, Sq. Hd.	4
14	27-2650	Height-of-Cut Adjustment	2
15	3290-125	Screw - Set	2
16	3253-7	Washer - Lock	2
17	3217-9	Nut - Lock	2
18	3296-39	Nut - Lock	2
19	12-0460	Caplug	1
20	323-2	Screw - Mach. Hex Hd.	1
21	10-5080	End Cap	1

Ref. No.	Part No.	Description	No. Used
22	253-61	Seal	1
23	3296-60	Stop Nut	1
24	254-94	Cone - Bearing	2
†25	254-72	Cup - Bearing	2
26	10-5120	Housing - Bearing	2
27	302-40	Fitting - Grease	1
28	217-74	Wheel Bolt	2
29	3296-42	Nut - Lock	2
30	3253-3	Washer - Lock	2
31	3296-29	Nut - Lock	2
32	3256-23	Washer - Flat	2
33	10-5060	Bracket Height of Cut	2
34	10-5010	Screw - Roller Adjustment	2
35	3254-6	Washer - Lock	2
36	2411-7	Ball Stud	2
37	11-0070	Scraper Comb Assembly (Incl. Ref. #48-51)	1
38	3254-8	Washer - Lock	4
39	3219-1	Nut - Hex	4
40	33-1000	Scraper Brush Assembly (Incl. Ref. #41) (Optional)	1
41	33-0630	Brush	1
42	3-7253	Bolt - Carriage	2
†43	253-96	Oil Seal	2
44	3255-9	Washer - Lock	4
45	57-3210	Screw - Mach. Special	4

*Not Illustrated



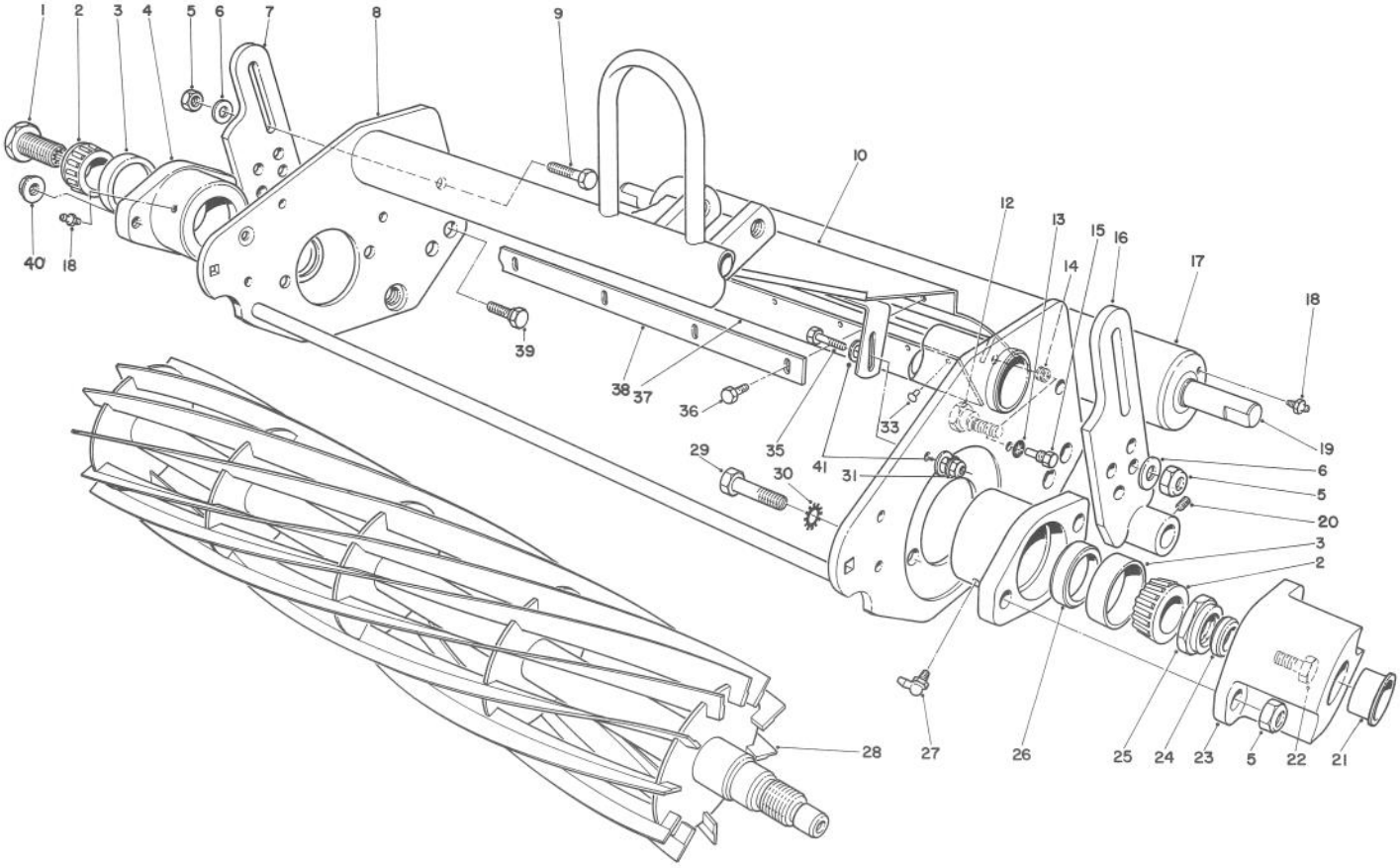
T-0307

CUTTING UNIT MODEL NO. 04405 & 04408 (Continued)

Ref. No.	Part No.	Description	No. Used
46	3233-26	Bolt - Carriage	2
47	3256-22	Washer - Flat	4
48	3296-9	Nut - Lock	11
49	8-2520	Support Comb	1
50	3249-3	Screw - Round Head	11
51	8-2530	Comb - Urethane	1
52	322-5	Screw - Cap, Hex. Hd.	2
53	3255-8	Washer - Lock	2
54	32108-20	Screw - Flat Head	2
55	70-1100	Frame - Reel	1

Ref. No.	Part No.	Description	No. Used
56	10-5100	Nut - Spline	1
57	32128-36	Nut - Nut, Flange	2
58	321-4	Screw - Cap, Hex. Hd.	2
*	13-8199	Bar Adj. Gauge (Includes †)	1
*	36-7250	Grasss Basket Assy.	3
*†	32122-22	Screw - Truss Head	1
*†	3219-14	Nut - Hex	1

*Not Illustrated
†Special Tool for Installation



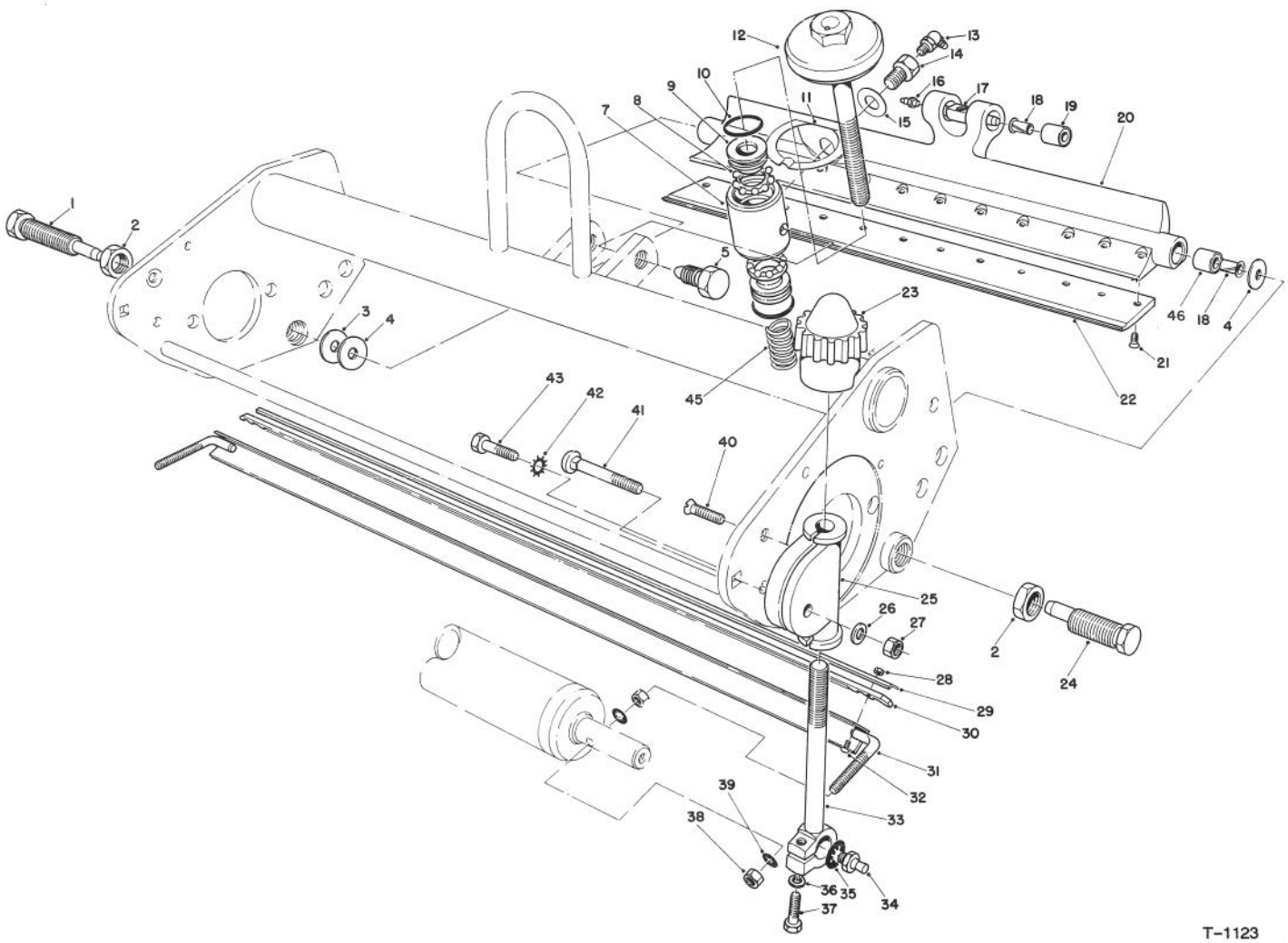
T-0309

CUTTING UNIT MODEL NO. 04450 (11 Blade)
CUTTING UNIT MODEL NO. 04468 (8 Blade)

Ref. No.	Part No.	Description	No. Used
1	77-0340	Nut - Spline	1
2	254-94	Cone - Bearing	2
†3	254-72	Cup - Bearing	2
4	10-5120	Housing - Bearing	2
5	3296-39	Nut - Lock	6
6	3256-24	Washer - Flat	4
7	77-1060	Bracket - Height of Cut (R.H.)	1
8	70-1200	Frame - Reel	1
9	323-7	Screw - Cap, Hex Hd.	2
10	57-5200	Grass Shield Assembly (Incl. Ref. #33 & 37)	1
12	52-3100	Bolt - Eccentric (Height of Cut L.H.)	1
13	3254-6	Washer - Lock	2
14	237-84	Grommet	2
15	57-9910	Screw- Pivot	2
16	77-1080	Bracket - Height of Cut (L.H.)	1
17	52-3120	Rear Roller Assembly (Incl. Ref. #18 & 19)	1
18	302-5	Fitting - Grease	3
19	21-8430	Bearing - Rear Roller	2
20	3246-2	Screw - Set	2
21	12-0460	Caplug	1
22	323-2	Screw - Machine, Hex Hd.	1

Ref. No.	Part No.	Description	No. Used
23	10-5080	Cap-End	1
24	253-61	Seal	1
25	3296-60	Nut - Lock	1
26	253-96	Seal	2
27	302-40	Fitting - Grease	1
28	12-2789	Reel - 11 Blade (Model No. 04450)	1
*	12-3599	Reel - 8 Blade (Model No. 04468)	1
29	57-3210	Screw - Machine ,Special	4
30	3255-9	Washer - Lock	4
31	3296-42	Nut - Lock	2
33	3295-46	Rivet	13
35	321-5	Screw - Cap, Hex Hd.	2
36	32144-73	Screw - Self Tapping	5
37	57-5210	Flap - Shield	1
38	36-7260	Cut-Off Bar	1
39	52-3110	Bolt - Shoulder (Height of Cut R.H.)	1
40	32128-36	Nut - Lock, Flange	2
41	3256-22	Washer - Flat	4
*	13-8199	Bar Adj. Gauge (Includes †)	1
*†	32122-2	Screw - Truss Hd.	1
*†	3219-14	Nut - Hex	1
*‡		Backlapping Brush Assy.	1

*Not Illustrated
†Special Tool for Installation



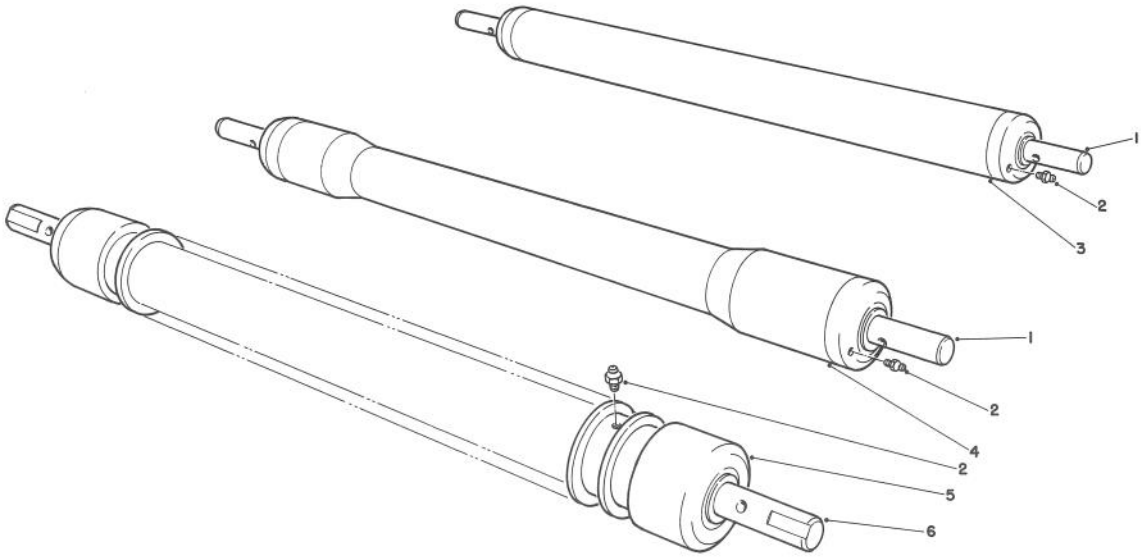
BEDBAR & SCRAPER COMB ASSEMBLY FOR CUTTING UNIT MODEL NO. 04450 & 04468

Ref. No.	Part No.	Description	No. Used
1	52-2930	Bolt - Adjustment Shoulder	1
2	3220-6	Nut - Hex ,Jam	2
3	52-2860	Washer	1
4	52-2900	Washer - Poly	2
5	66-7240	Screw - Pivot SPA	2
7	77-0330	Pivot - Single Point Adjust.	1
8	77-0350	Retainer - Bearing	2
10	257-5	Washer - Steel	2
11	66-7220	Arm - Spring	1
12	77-0300	Handle Assembly	1
14	324-25	Screw - Cap, Hex. Hd.	1
15	3256-25	Washer - Flat	1
16	302-18	Fitting - Grease	1
17	57-5260	Pivot - Bedbar	1
18	52-2890	Bushing - Flanged	4
19	62-5510	Rubber Bushing Assembly	2
20	57-4940	Bedbar	1
†21	57-4910	Screw - Special	13
22	63-8470	Bed Knife 1/8"	1
*	62-2500	Bed Knife 3/16"	1
*	63-8560	Bed Knife - Tournament	1
*	63-8600	Bedknife - Fairway	1
23	10-5040	Knob - Height Adjustment	2
24	52-2910	Bolt - Eccentric Shoulder (L.H.)	1
25	10-5060	Bracket - Height of Cut	2

Ref. No.	Part No.	Description	No. Used
26	3256-23	Washer - Flat	2
27	3296-29	Nut - Lock	2
28	3296-9	Nut - Lock	11
29	8-2520	Support - Comb	1
30	8-2530	Comb - Urethane	1
31	11-0070	Scraper Comb Assembly (Incl. Ref. #28-30 & 32)	1
32	3249-3	Screw - Round Hd.	11
33	10-5010	Screw - Roller Adjustment	2
34	2411-7	Ball Stud	2
35	3254-6	Washer - Lock	2
36	3253-3	Washer - Lock	2
37	321-4	Screw - Cap, Hex Hd.	2
38	3219-1	Nut - Hex	4
39	3254-8	Washer - Lock	4
40	32108-20	Screw - Machine, Flat Hd.	2
41	3-7253	Bolt - Carriage	2
42	3255-8	Washer - Lock	2
43	322-5	Screw - Cap, Hex Hd.	2
45	66-7230	Spring - Compression	1
46	63-9510	Rubber Bushing Assembly	2
47	77-0490	Decal - Bolt, Eccentric	1
*	36-7250	Grass Basket Assembly	2
*	13-3659	Overhaul Kit	1
*†		Tool - Bed Knife Screw	1

*Not Illustrated

*†Special Tool for Installation



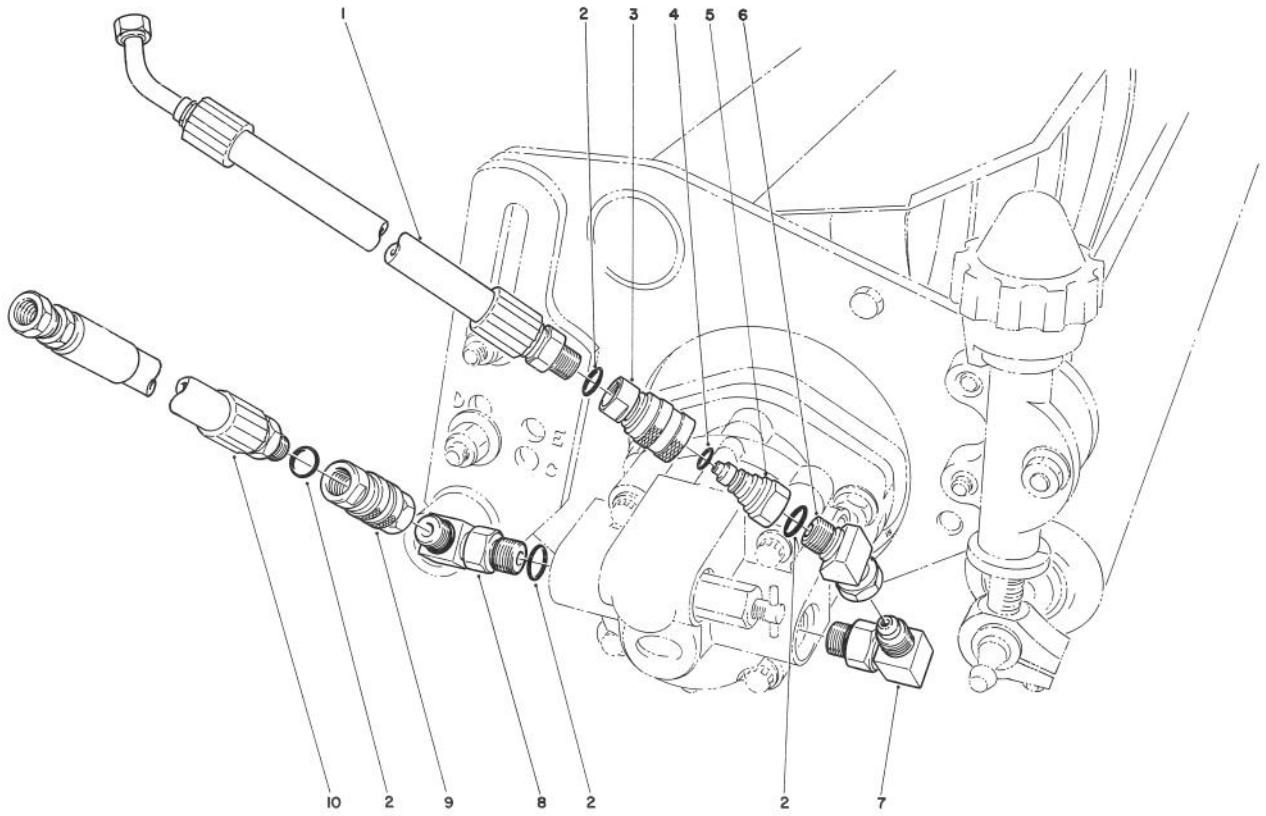
T-0956

CUTTING UNIT ROLLER OPTIONS

Ref. No.	Part No.	Description	No. Used
1	52-3180	Bearing - Front Roller	2
2	302-5	Fitting - Grease	2
3	52-3170	Full Front Roller Assembly (Incl. Ref. #1 & 2)	1
4	52-3590	Swaged Roller Assembly (Incl. Ref. No.1 & 2)	1

Ref. No.	Part No.	Description	No. Used
5	71-1550	Wiehle Roller Assembly (Incl. Ref. #2 & 6)	1
6	52-3210	Bearing - Wiehle Roller	2
*	04412	Full Roller Carton of 3	1
*	04414	Swaged Roller Carton of 3	1
*	04424	Wiehle Roller Carton of 3	1

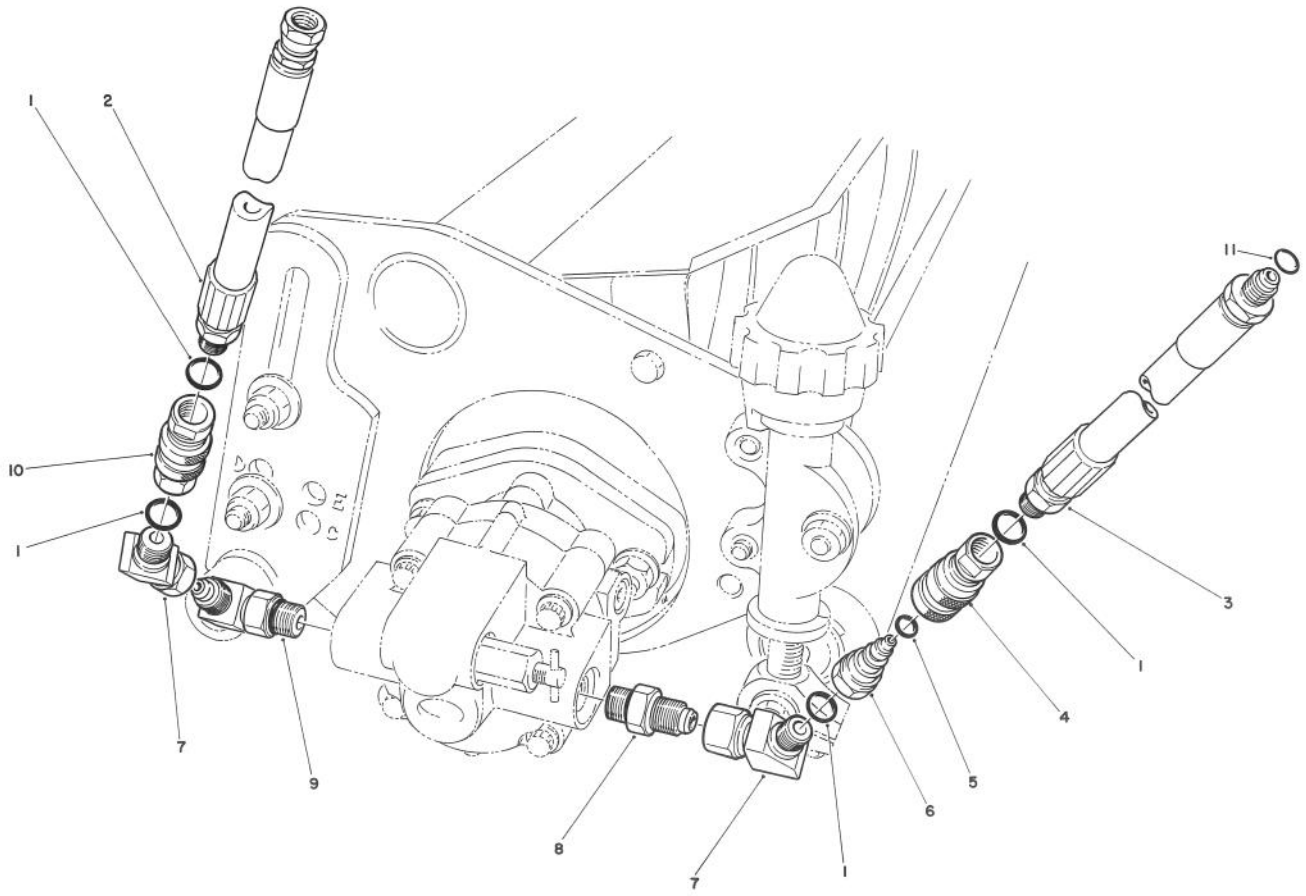
*Not Illustrated



T-0316

BACKLAPPING KIT NO. 63-4960 (Optional) #1 Cutting Unit

Ref. No.	Part No.	Description	No. Used
1	70-9960	Hose Assembly - Pressure (Incl. Ref. #2)	1
2	237-42	O-Ring	6
3	353-934	Coupling	2
4	237-142	O-Ring	2
5	353-933	Coupling	2
6	54-9530	Fitting - 45° Swivel Elbow (Incl. Ref. #2)	1
7	353-374	Fitting - 90° Adjustable El.	1
8	54-9540	Fitting - 90° Adjustable El. (Incl. Ref. #2)	1
9	54-9620	Coupling - Quick Disconn. (Incl. Ref. #3-5)	2
10	70-9950	Hose Assembly - Return (Inc. Ref. #2)	1

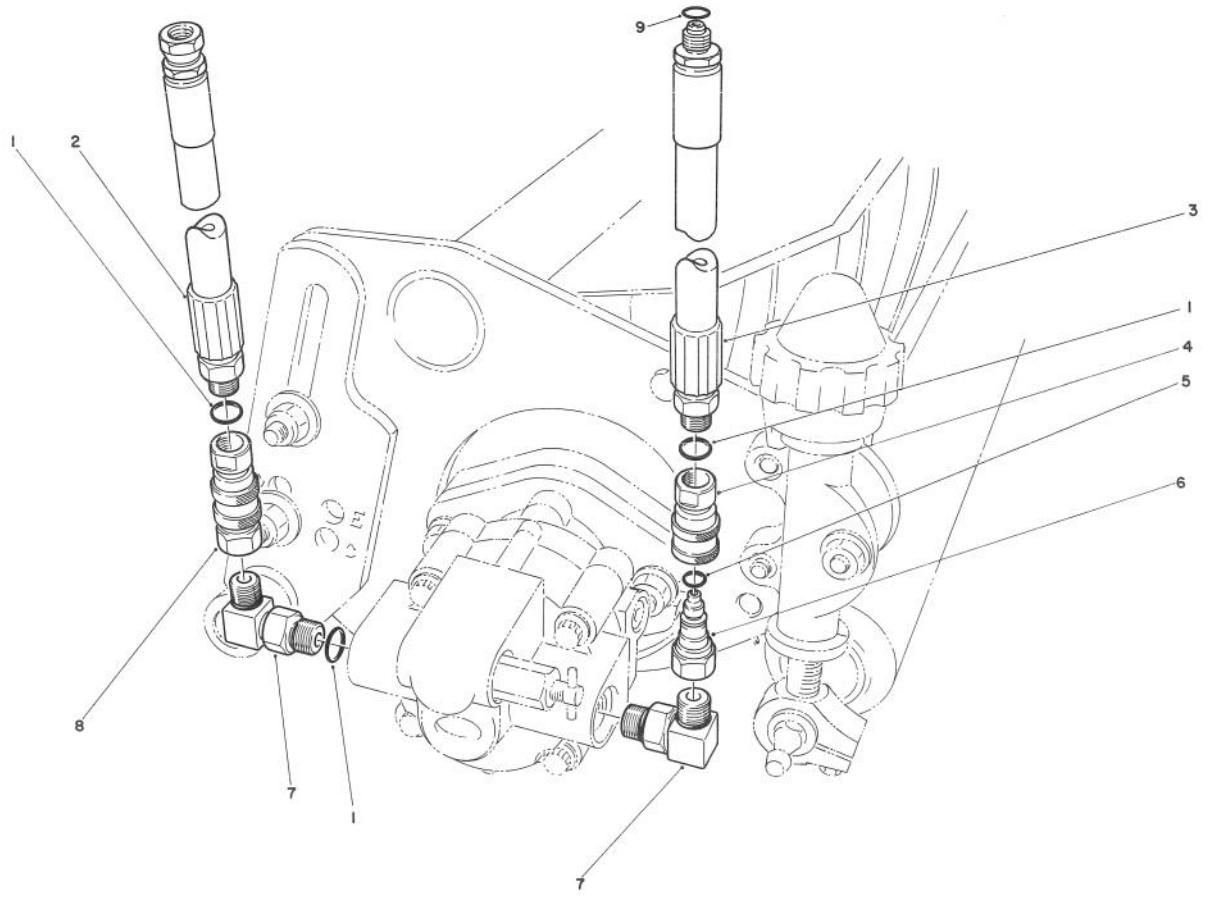


T-0317

BACKLAPPING KIT NO. 63-4960 (Cont.) #2 Cutting Unit

Ref. No.	Part No.	Description	No. Used
1	237-42	O-Ring	6
2	70-9950	Hose Assembly - Return (Incl. Ref. #1)	1
3	70-9940	Hose Assembly - Pressure (Incl. Ref. #1 & 11)	1
4	353-934	Coupling	2
5	237-142	O-Ring	2
6	353-933	Coupling	2

Ref. No.	Part No.	Description	No. Used
7	54-9530	Fitting - 45° Swivel Elbow (Incl. Ref. #1)	2
8	353-384	Fitting - Straight	1
9	353-374	Fitting - 90° Adjustable El.	1
10	54-9620	Coupling - Quick Disconn. (Incl. Ref. #4-6)	2
11	237-22	O-Ring	1

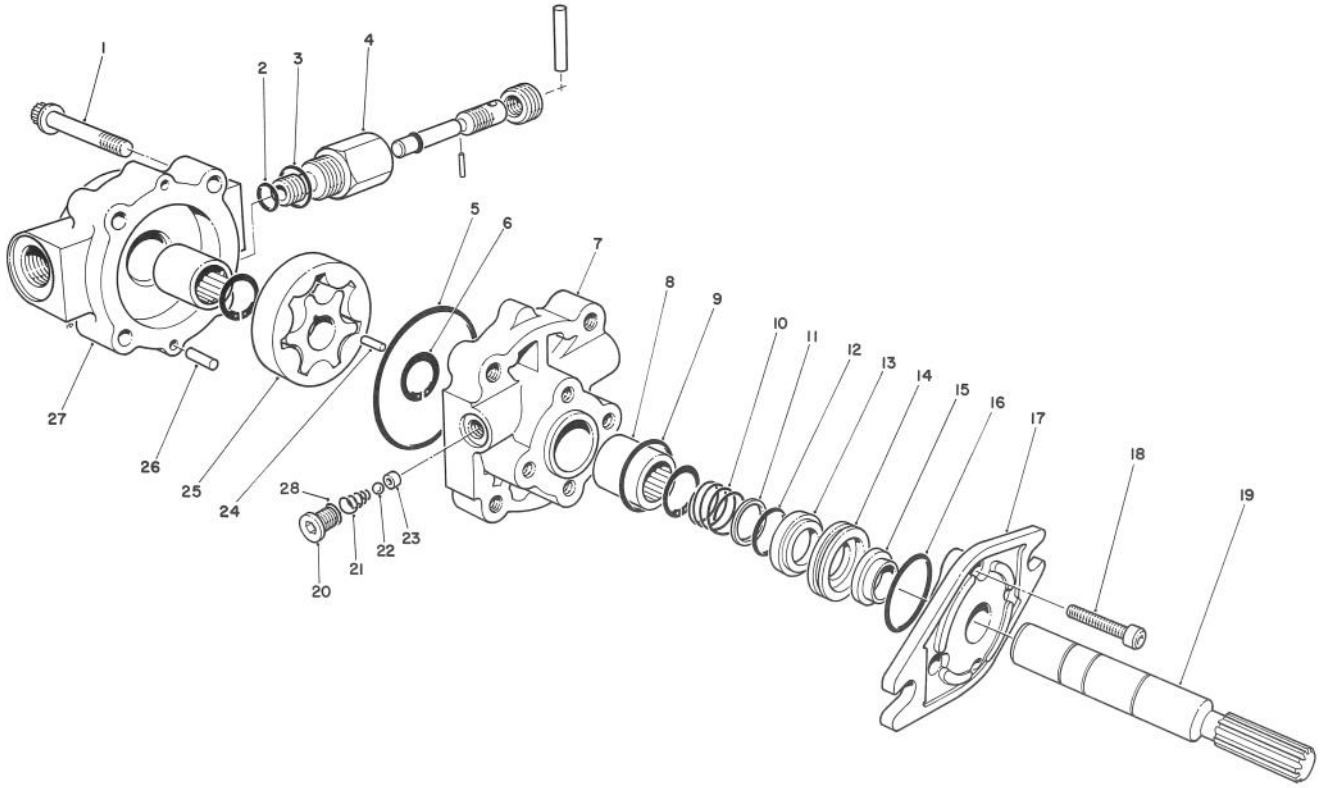


T-0318

BACKLAPPING KIT NO. 63-4960 (Cont.) No. 3 Cutting Unit

Ref. No.	Part No.	Description	No. Used
1	237-42	O-Ring	6
2	70-9950	Hose Assembly - Return (Incl. Ref. #1)	1
3	70-9940	Hose Assembly - Pressure (Incl. Ref. #1 & 9)	1
4	353-934	Coupling	2
5	237-142	O-Ring	2

Ref. No.	Part No.	Description	No. Used
6	353-933	Coupling	2
7	353-374	Fitting - 90° Adjustable El. (Incl. Ref. #1)	2
8	54-9620	Coupling - Quick Disconn. (Incl. Ref. #4-6)	2
9	237-22	O-Ring	1



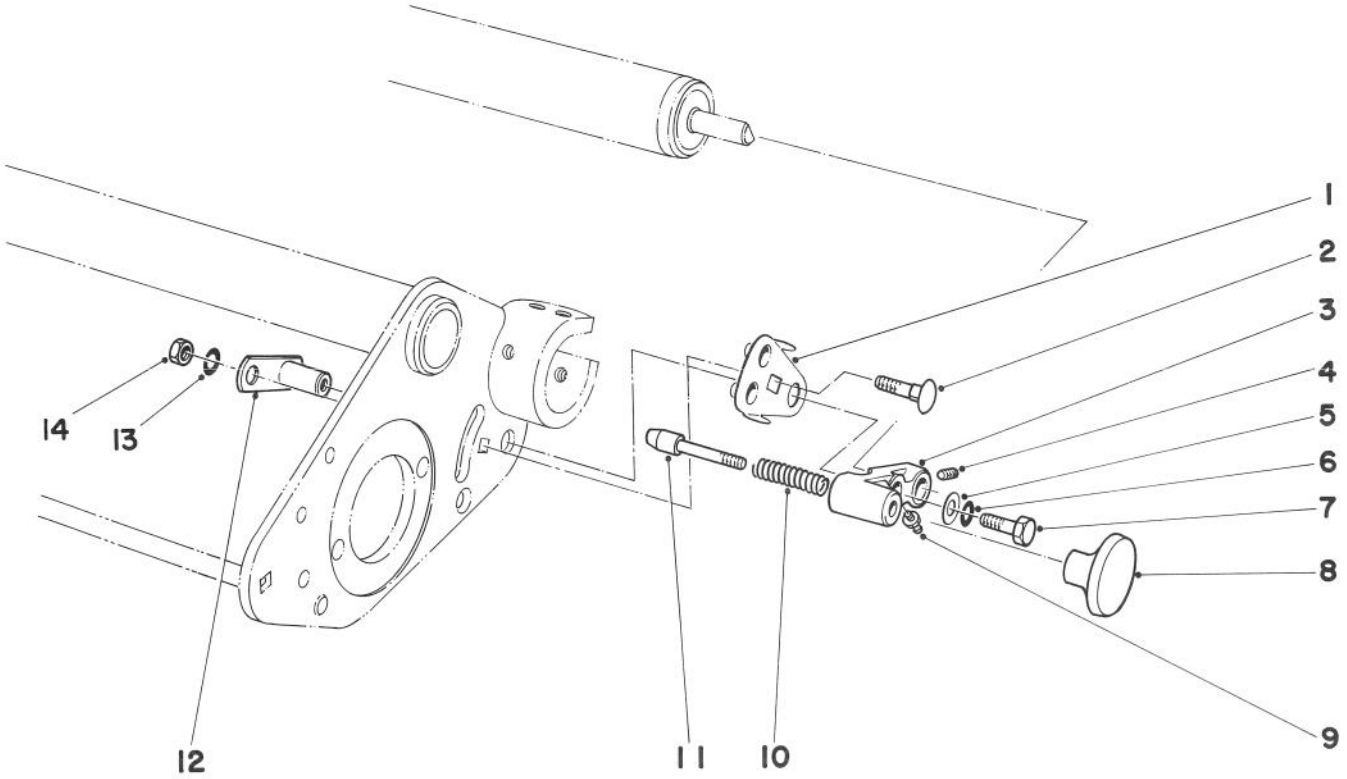
T-0319

BACKLAPPING KIT NO. 63-4960 (Cont.)

Ref. No.	Part No.	Description	No. Used
1	353-892	Screw- 12 Pt.	4
2	353-850	O-Ring	1
3	353-914	O-Ring	1
4	54-9520	Valve - By-Pass (Incl. Ref. #2 & 3)	1
5		O-Ring	1
6	353-907	Ring - Retaining	3
7	353-895	Cover (Incl. Ref. #23)	1
8	353-910	Bearing - Needle	2
9		O-Ring	1
10	353-906	Spring	1
11	353-897	Washer-Seal	1
12		O-Ring	1
13	353-899	Cup - Seal	1
14		Seat - Seal	1
15		Seal - Block	1

Ref. No.	Part No.	Description	No. Used
16		O-Ring	1
17	353-900	Flange - Mounting	1
18	353-905	Screw	4
19	353-904	Shaft	1
20	353-911	Plug	2
21	353-912	Spring - Conical	2
22	353-664	Ball	2
23		Seat	2
24	353-893	Pin - Drive	1
25	353-909	Element - Gerotor	1
26	353-894	Pin - Dowel	2
27	353-891	Body	1
28	237-156	O-Ring	2
*	353-913	Bearing & Seal Kit (Incl. Ref. #5, 8, 9 & 12-16)	1
*	54-9510	Motor & By-Pass Assy. (Complete)	3

*Not Illustrated



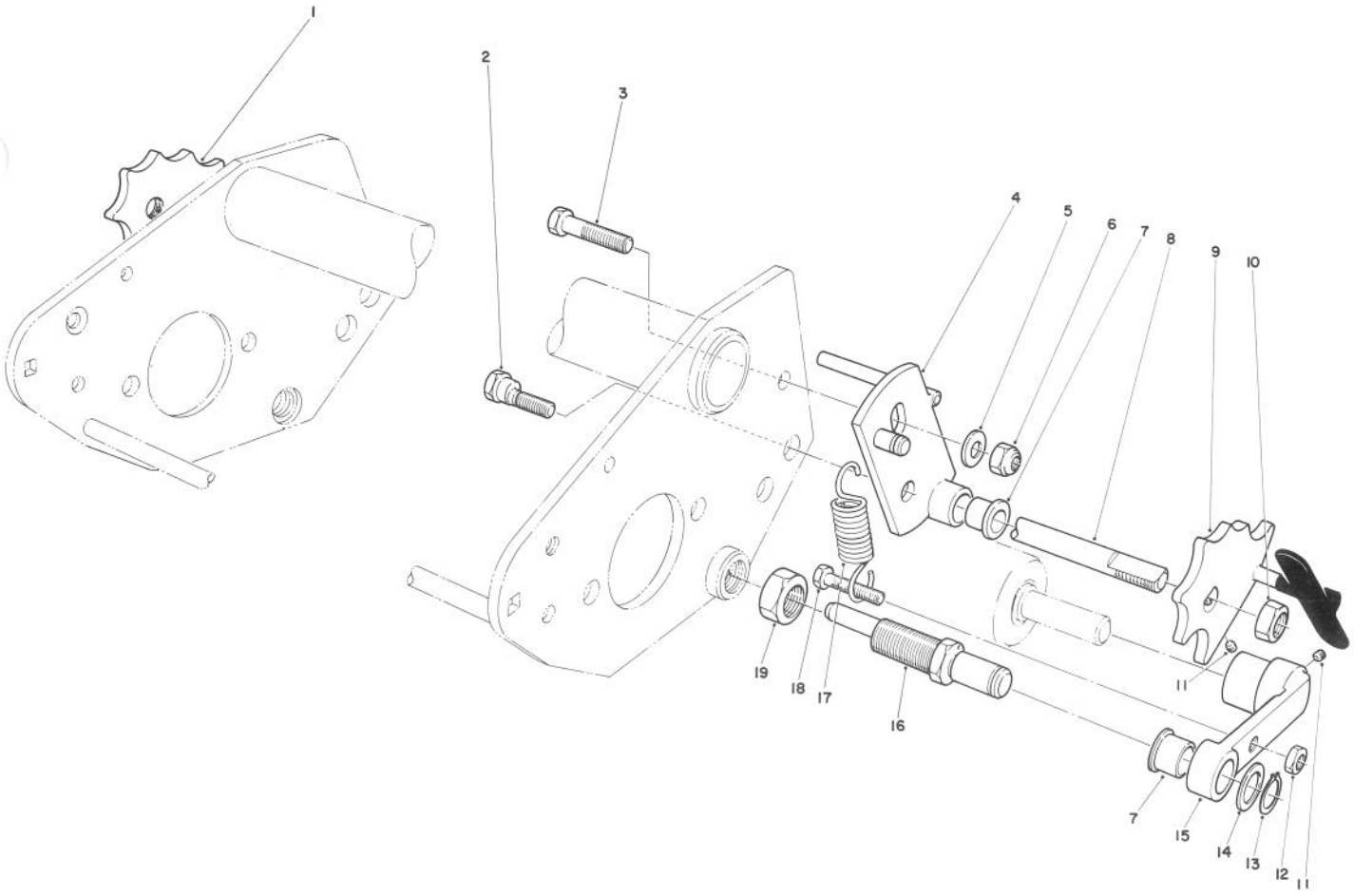
T-0320

QUICK HEIGHT-OF-CUT KIT NO. 29-5910
(CUTTING UNIT MODEL NO. 04405 & 04408)

Ref. No.	Part No.	Description	No. Used
1	10-5140	Adj. Plate - Height-of-Cut	6
2	3230-23	Bolt - Carriage	6
3	10-4870	Bracket Height-of-Cut	6
4	3245-7	Screw - Set	6
5	3256-2	Washer - Flat	6
6	3253-3	Washer - Lock	6
7	321-3	Screw - Cap, Hex. Hd.	6
8	233-28	Knob	6

Ref. No.	Part No.	Description	No. Used
9	302-18	Fitting - Grease	6
10	10-4850	Spring - Compression	6
11	10-4880	Pin - Height-of-Cut	6
12	20-4700	Pivot Pin	6
13	3253-4	Washer - Lock	6
14	3217-6	Nut - Hex.	6

Note: Use Rear Roller No. 21-8450 (21-5/8" Lg.) with this Kit.



T-0321

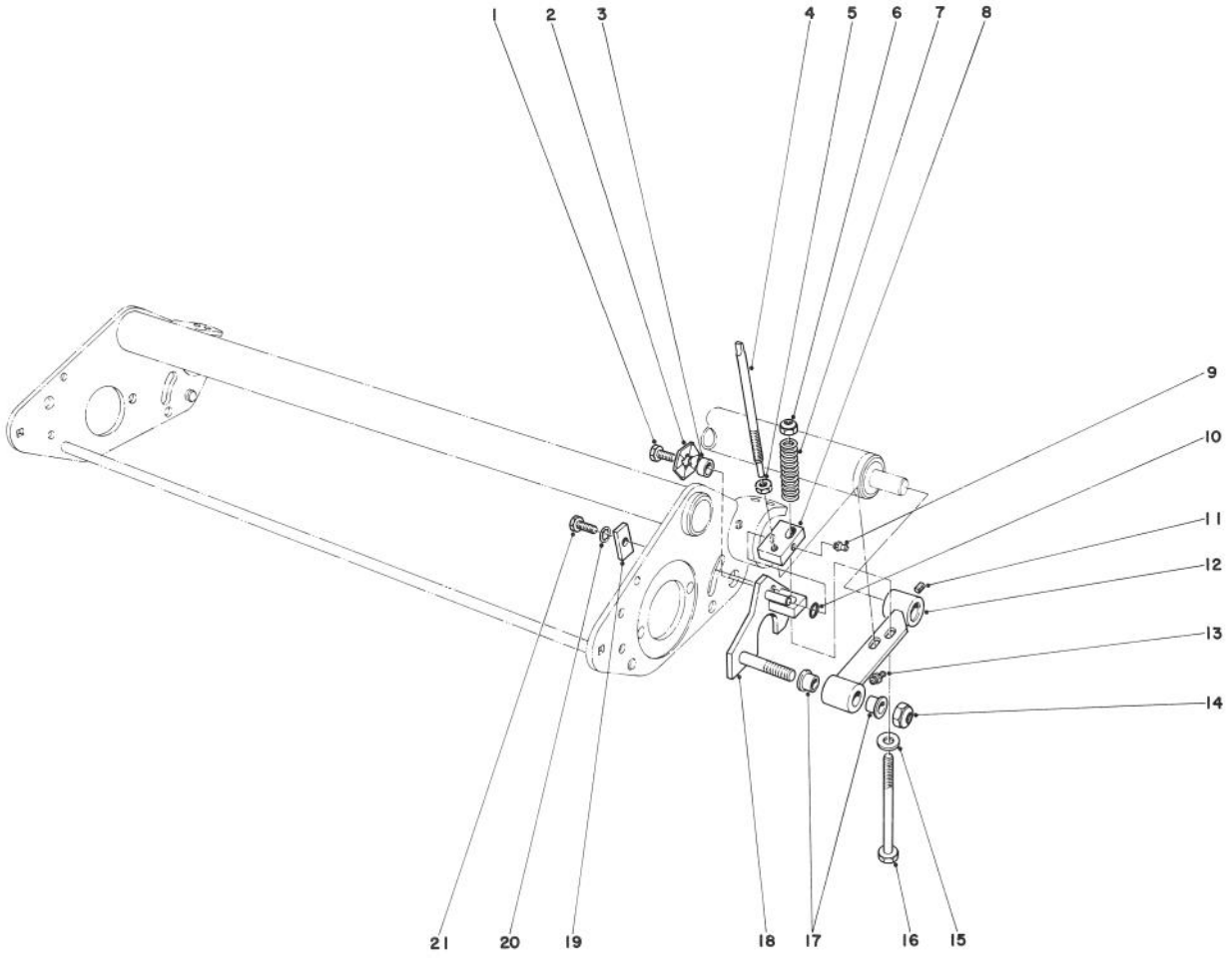
QUICK HEIGHT-OF-CUT SINGLE POINT ADJUST KIT
MODEL NO. 04451 (Optional)

Ref. No.	Part No.	Description	No. Used
1	54-7190	Cam - Quick H.O.C.	3
2†	52-3100	Bolt - H.O.C. (L.H. Eccentric)	3
*†	52-3110	Bolt - H.O.C. (R.H. Shoulder)	3
3†	323-7	Screw - Cap, Hex Hd.	6
4	54-7250	Bracket - Quick H.O.C. (L.H.) (Incl. Ref. #7)	3
*	54-7120	Bracket - Quick H.O.C. (R.H.) (Incl. Ref. #7)	3
5†	3256-24	Washer - Flat	12
6†	3296-39	Nut - Lock	12
7	256-155	Bushing - Flange	12
8	54-7180	Shaft-Cam	3
9	54-7240	Cam - Quick H.O.C. (L.H. & Center)	2
*	54-7200	Cam - Quick H.O.C. (R.H.)	1

Ref. No.	Part No.	Description	No. Used
10	32153-7	Nut - Lock	6
11	3290-125	Screw - Set	12
12	3218-2	Nut - Jam	6
13	32120-3	Ring - Snap	6
14	36-4780	Washer	6
15	54-7140	Pull Arm Assembly (Incl. Ref. #7)	6
16	54-7300	Bolt - Bedbar (L.H. Eccentric)	3
*	54-7310	Bolt - Bedbar (R.H. Shoulder)	3
17	54-7170	Spring - Extension	6
18	322-9	Screw- Cap, Hex Hd.	6
19†	3220-6	Nut - Lock	6

*Not Illustrated

†Items NOT included in kit obtain from existing cutting unit.



T-0322

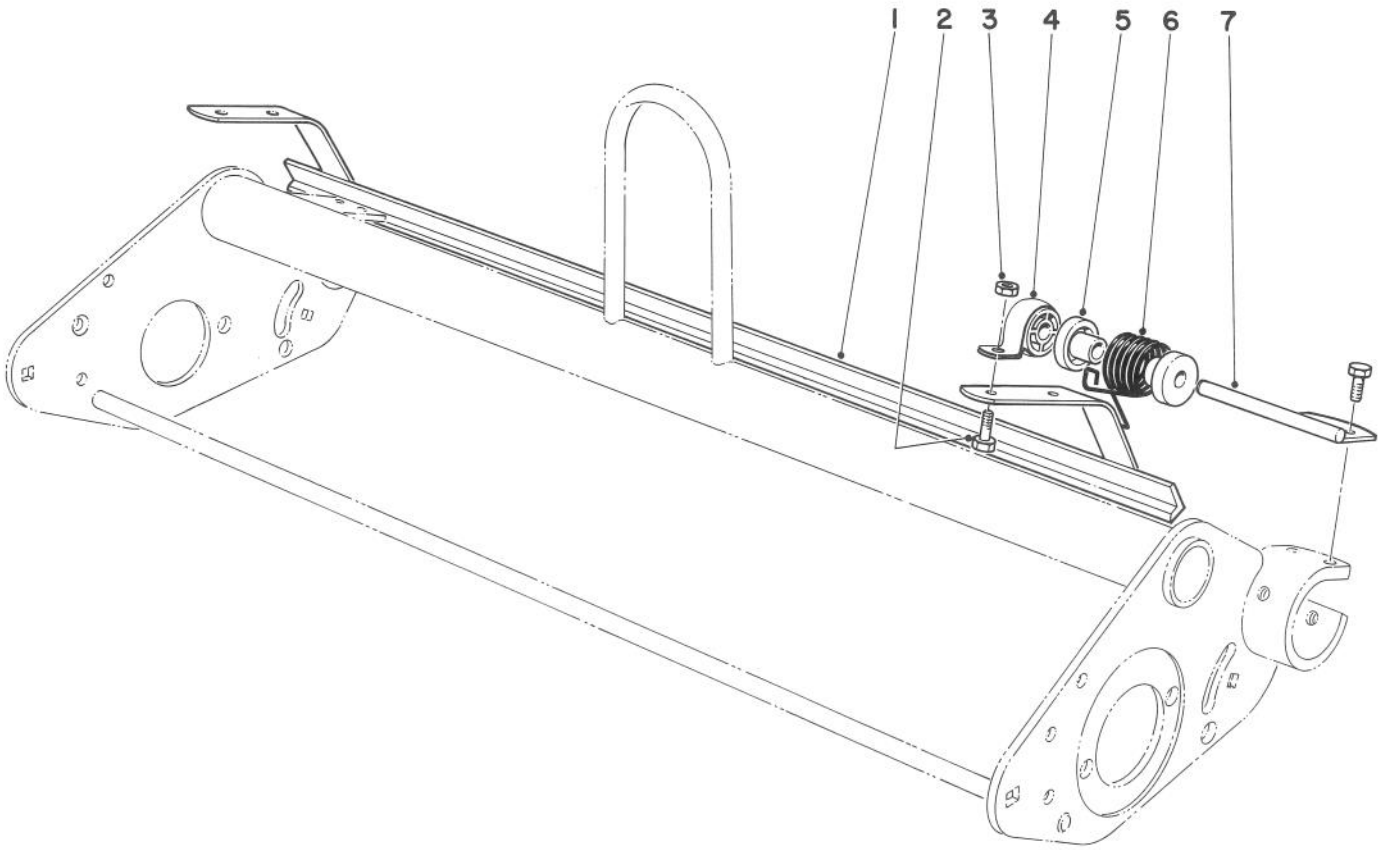
VARIABLE QUICK HEIGHT-OF-CUT KIT NO. 29-9400 (Optional)

Ref. No.	Part No.	Description	No. Used
1	322-2	Screw - Cap, Hex. Hd.	2
2	3290-238	Washer - Lock	2
3	24-9200	Spacer - Mounting	2
4	24-9260	Rod - Adjustment	2
5	3218-2	Nut - Jam	2
6	3296-29	Nut - Lock	2
7	24-9370	Spring - Compression	2
8	24-9220	Pivot Plate	2
9	302-22	Fitting - Grease	2
10	237-21	O-Ring	2
11	3245-1	Screw - Set	2
12	24-9330	Pivot Arm L.H. (Incl. Ref. #13 & 17)	1
*	24-9340	Pivot Arm R.H. (Incl. Ref. #13 & 17)	1

Ref. No.	Part No.	Description	No. Used
13	302-5	Fitting - Grease	2
14	3296-44	Nut - Lock	2
15	3256-23	Washer - Flat	2
16	322-23	Screw - Cap, Hex. Hd.	2
17	256-116	Bushing	4
18	24-9320	Base Plate L.H.	1
*	24-9310	Base Plate R.H.	1
19	24-9240	Washer	2
20	3254-2	Washer - Lock	2
21	322-3	Screw - Cap, Hex. Hd.	2

*Not Illustrated

Note: Use Rear Roller No. 21-8450 (21-5/8" Lg.) with this Kit



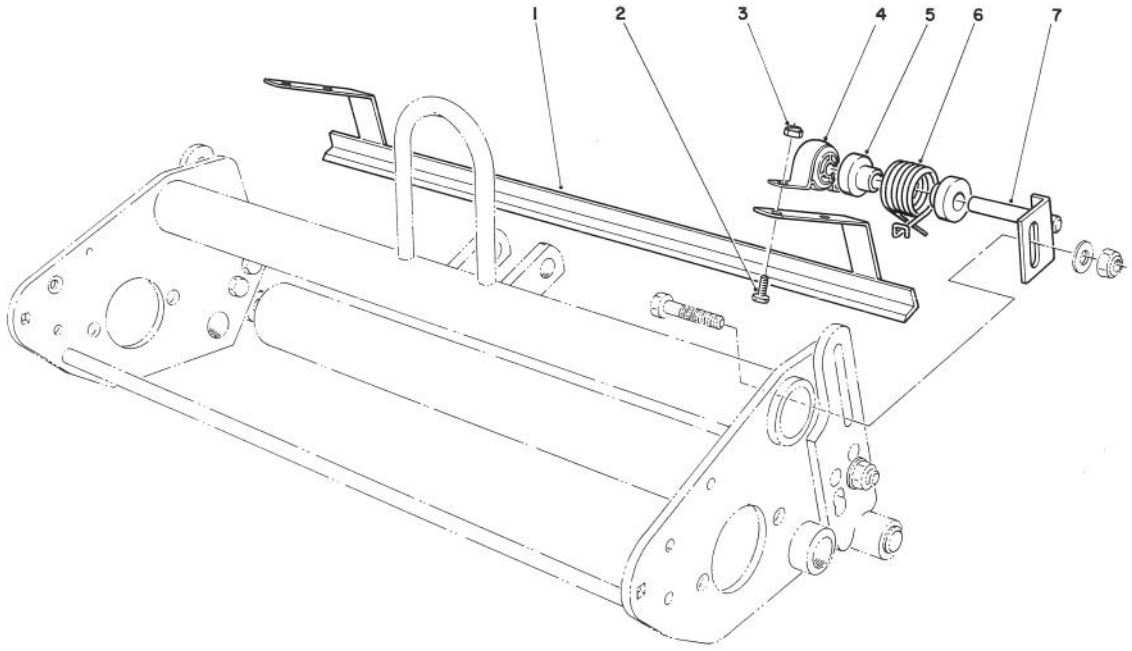
T-0324

ROLLER SCRAPER KIT NO. 42-4820 (Optional)

Ref. No.	Part No.	Description	No. Used
1	42-4800	Scraper Bar	1
2	321-3	Screw - Cap, Hex. Hd.	8
3	32152-4	Nut - Lock	4
4	256-239	Bearing	2
5	19-9560	Spacer - Spring	4

Ref. No.	Part No.	Description	No. Used
6	19-9540	Spring L.H.	1
*	19-9550	Spring R.H.	1
7	42-4780	Scraper Mount L.H.	1
*	42-4790	Scraper Mount R.H.	1

*Not Illustrated



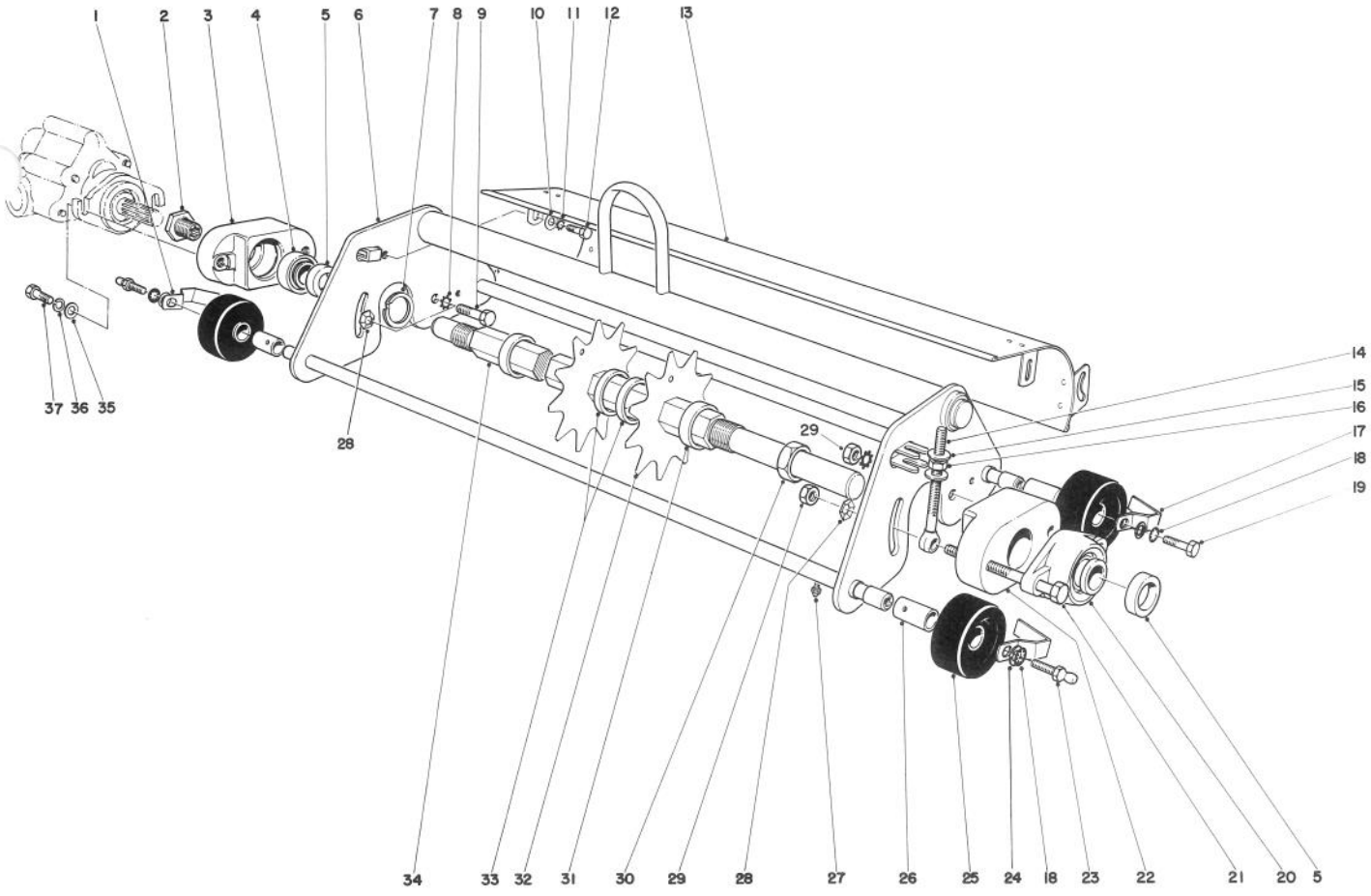
T-0323

ROLLER SCRAPER KIT NO. 53-9240 (FOR MODEL NO. 04450 & 04468 CUTTING UNITS) (OPT.)

Ref. No.	Part No.	Description	No. Used
1	42-4800	Bar - Scraper	1
2	321-3	Screw - Cap, Hex. Hd.	4
3	32152-4	Nut - Lock	4
4	256-239	Bearing	2

Ref. No.	Part No.	Description	No. Used
5	19-9560	Spacer - Spring	4
6	19-9540	Spring - Torsion LH	1
*	19-9550	Spring - Torsion RH	1
7	53-9250	Bracket - Mount., Scraper	2

*Not Illustrated



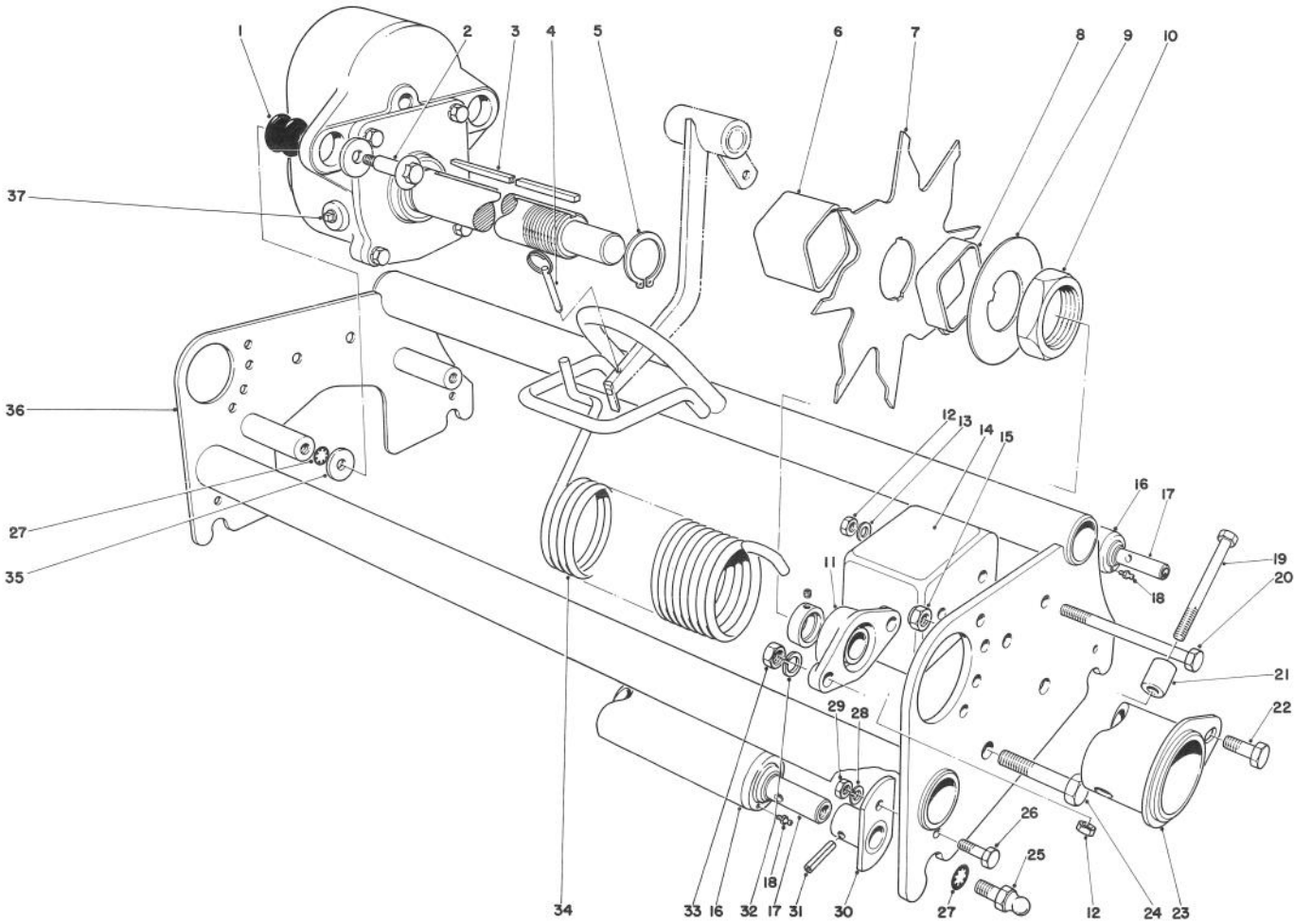
T-0325

THATCHING REEL ATTACHMENT MODEL NO. 04416 (Optional)

Ref. No.	Part No.	Description	No. Used
1	17-1650	Scraper - Wheel R.H.	2
2	10-5100	Nut - Spline	1
3	17-1610	Housing - Bearing	1
4	251 -206	Bearing	1
5	251-77	Lock Collar	2
6	17-1450	Frame W.A.	1
7	32120-77	Ring -Retaining	1
8	3255-16	Washer - Lock, Ext. Tooth	2
9	324-6	Screw - Cap, Hex. Hd.	2
10	3256-22	Washer - Flat	4
11	3255-7	Washer - Lock, Ext. Tooth	4
12	329-1	Screw - Cap, Hex. Hd.	4
13	17-1530	Grass Shield	1
14	17-1510	Eye Bolt	2
15	17-1710	Washer	4
16	3217-7	Nut - Hex.	2
17	17-1640	Scraper-Wheel L.H.	2
18	3254-6	Washer - Lock, Ext. Tooth	4
19	3211-3	Screw - Cap, Hex. Hd.	2
20	251-247	Housing - Bearing	1

Ref. No.	Part No.	Description	No. Used
21	324-13	Screw - Cap, Hex. Hd.	2
22	17-1520	Counterweight	1
23	2411-7	Ball Stud	2
24	3256-3	Washer - Flat	4
25	17-1630	Wheel	4
26	17-1620	Bushing - Wheel	4
27	302-5	Fitting -Grease	4
28	3290-334	Washer - Lock, Pyramidal	2
29	3217-8	Nut - Hex.	2
30	3220-18	Nut - Jam	2
31	17-1580	Spacer	2
32	17-1590	Blade	37
33	17-1600	Spacer	72
34	17-1570	Shaft Hex	1
35	3256-24	Washer - Flat	2
36	3255-9	Washer - Lock	2
37	323-6	Screw - Cap, Hex. Hd.	2
*	17-2290	Gauge .060	2
*	17-2300	Gauge .120	2
*	17-2310	Gauge .250	2

*Not Illustrated



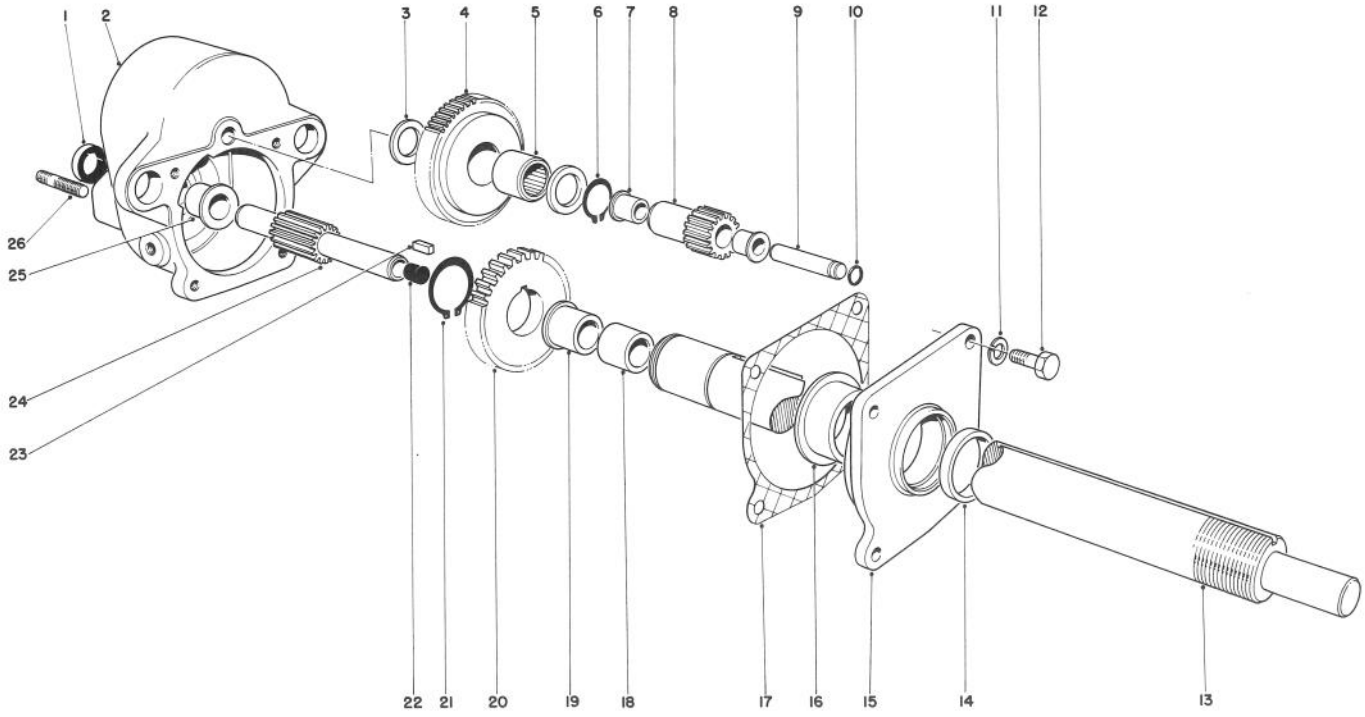
T-0326

SPIKER ATTACHMENT MODEL NO. 04420 (Optional)

Ref. No.	Part No.	Description	No. Used
1	237-90	Grommet	2
2	3-2652	Bolt	2
3	20-7370	Key - Square	1
4	21-9110	Pin - Ball, Lock	1
5	32151-44	Ring - Retaining	1
6	20-7390	Spacer	9
7	20-7380	Blade	10
8	20-7400	Spacer	1
9	20-7790	Washer	1
10	3218-17	Nut - Nut	1
11	251-247	Bearing Assembly	1
12	3296-39	Nut - Lock	3
13	3256-4	Washer - Flat	2
14	20-7720	Counter - Weight	1
15	3296-47	Nut - Lock	1
16	52-3170	Roller Assembly (Complete) (Incl. Ref. #17 & 18)	2
17	52-3180	Front Roller Bearing	4
18	302-5	Fitting - Grease	4

Ref. No.	Part No.	Description	No. Used
19	323-15	Screw - Cap, Hex. Hd.	1
20	323-11	Screw - Cap, Hex. Hd.	2
21	20-7530	Spacer	1
22	322-3	Screw - Cap, Hex. Hd.	1
23	20-7540	Spring Tube	1
24	324-6	Screw - Cap, Hex. Hd.	2
25	2411-7	Ball Stud	2
26	321-4	Screw - Cap, Hex. Hd.	4
27	3254-6	Washer - Lock, Int. Tooth	4
28	3253-3	Washer - Lock	4
29	3217-5	Nut - Hex.	4
30	20-7570	Roller Mounting Bracket	4
31	32121-16	Pin - Roll	4
32	3255-16	Washer - Lock	2
33	3217-8	Nut - Hex.	2
34	20-7520	Spring	1
35	20-7510	Spacer	4
36	20-7420	Frame	1
37	281-2	Plug - Pipe	1
*	21-6000	Spiker Depth Gauge	1

*Not Illustrated

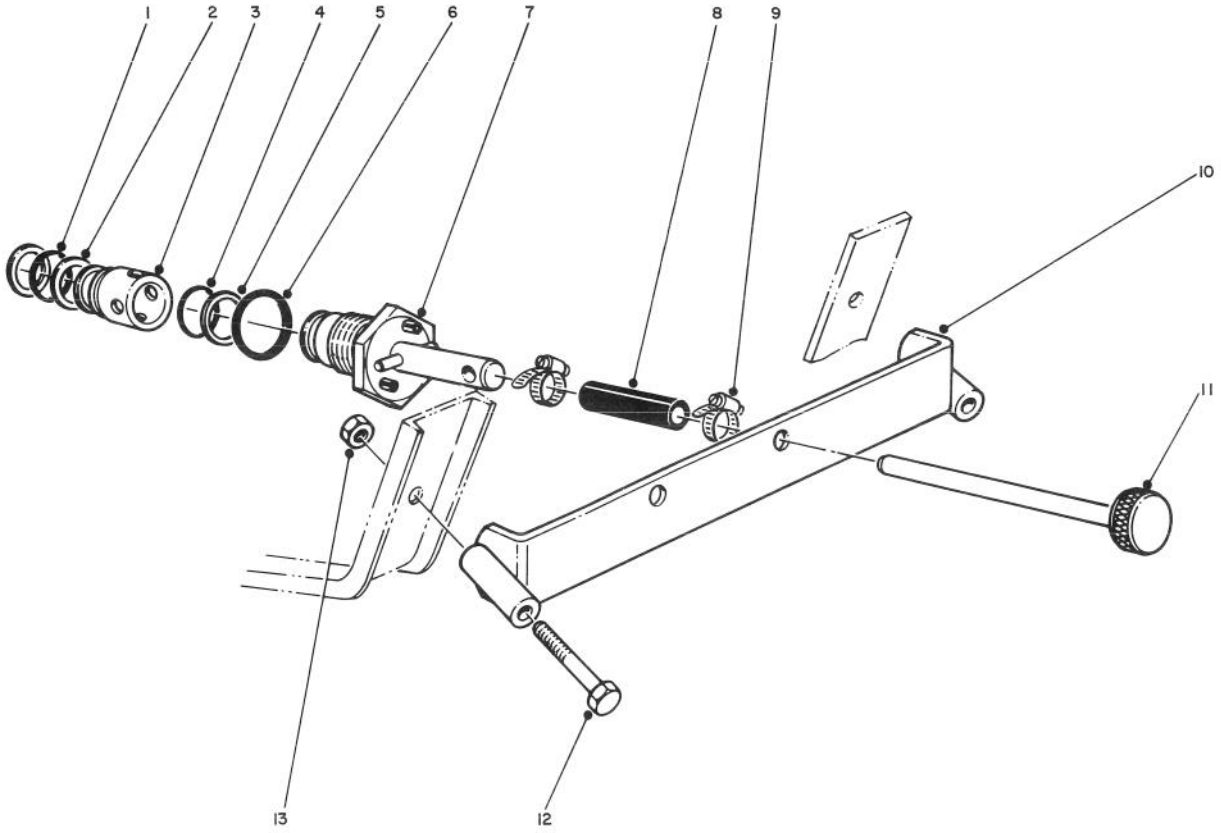


T-0327

SPIKER ATTACHMENT MODEL NO. 04420 (Optional) (Continued)

Ref. No.	Part No.	Description	No. Used
1	253-131	Seal	1
2	53-9960	Housing Assembly (Incl. Ref. #1 & 25-26)	1
3	256-115	Washer - Thrust	2
4	20-7850	Gear 64T	1
5	352-284	Bearing	1
6	32151-29	Ring - Retaining	1
7	256-243	Bushing	2
8	20-7690	Gear 15T (Incl. Ref. #7)	1
9	20-7330	Countershaft	1
10	237-22	O-Ring	1
11	3253-4	Washer - Lock	4
12	322-5	Screw - Cap, Hex. Hd.	4
13	23-5150	Shaft Assembly	1

Ref. No.	Part No.	Description	No. Used
14	253-130	Seal	1
15	20-7700	Cover Assembly (Incl. Ref. #14 & 16)	1
16	20-7740	Bushing	1
17	20-7410	Gasket	1
18	256-27	Bushing	1
19	256-117	Bushing	1
20	20-7820	Gear 45T	1
21	32151-35	Ring - Retaining	1
22	2410-34	Plug	1
23	20-7360	Key	1
24	20-7750	Gear 16T	1
25	256-244	Bushing	1
26	20-7350	Stud	2

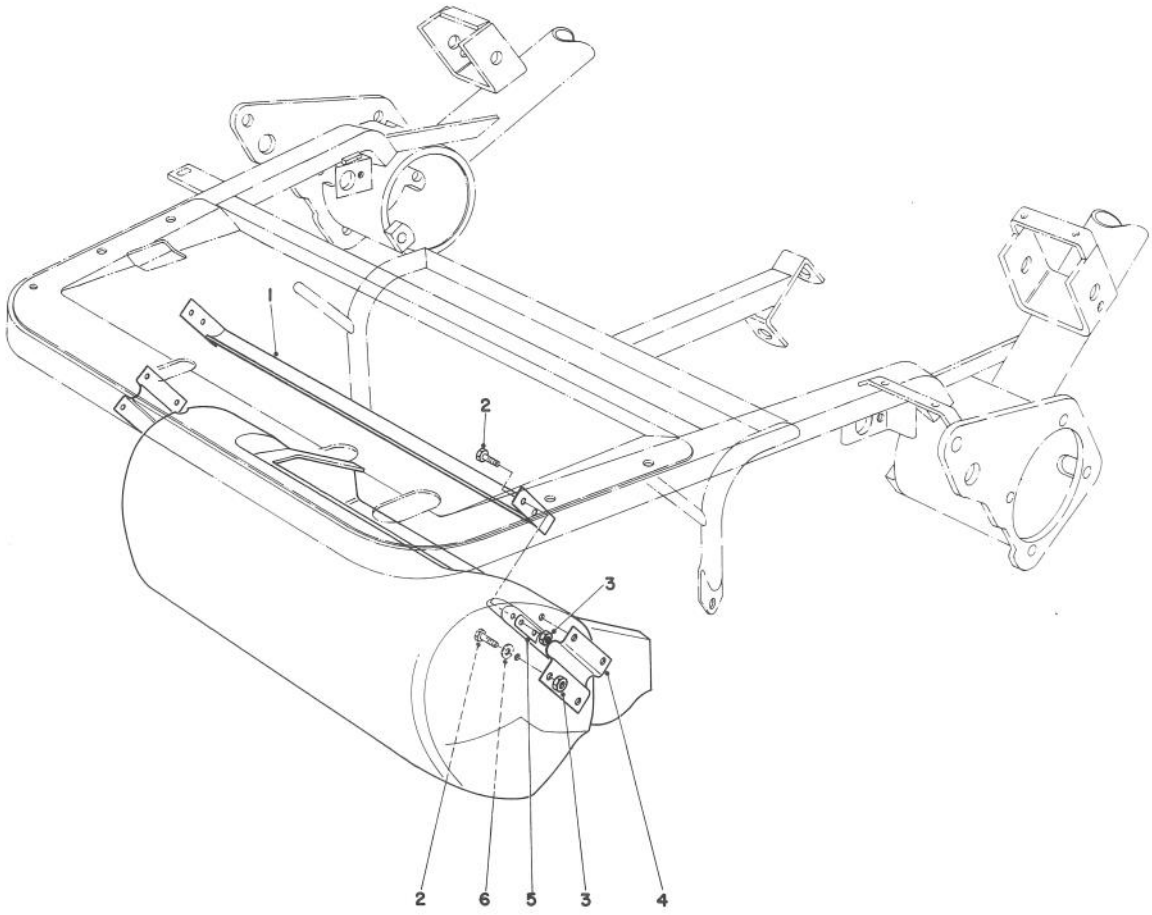


T-0328

REEL SHUTOFF KIT NO. 28-2150 (Optional)

Ref. No.	Part No.	Description	No. Used
1	353-302	O-Ring	2
2	353-303	Backup Seal	4
3	353-484	Check (Inc. Ref. #1 & 2)	2
4	353-305	O-Ring	2
5	353-306	Washer - Backup	2
6	237-54	O-Ring	2
7	353-503	Shutoff Valve Set (2 Valves Per Set) (Incl. Ref. #1-6)	1
8	18-2400	Hose - Rubber	2

Ref. No.	Part No.	Description	No. Used
9	2412-45	Hose Clamp	4
10	28-2070	Front Bracket	1
11	20-2210	Knob Assembly	2
12	321-10	Screw - Cap, Hex. Hd.	2
13	3217-5	Nut - Hex.	2

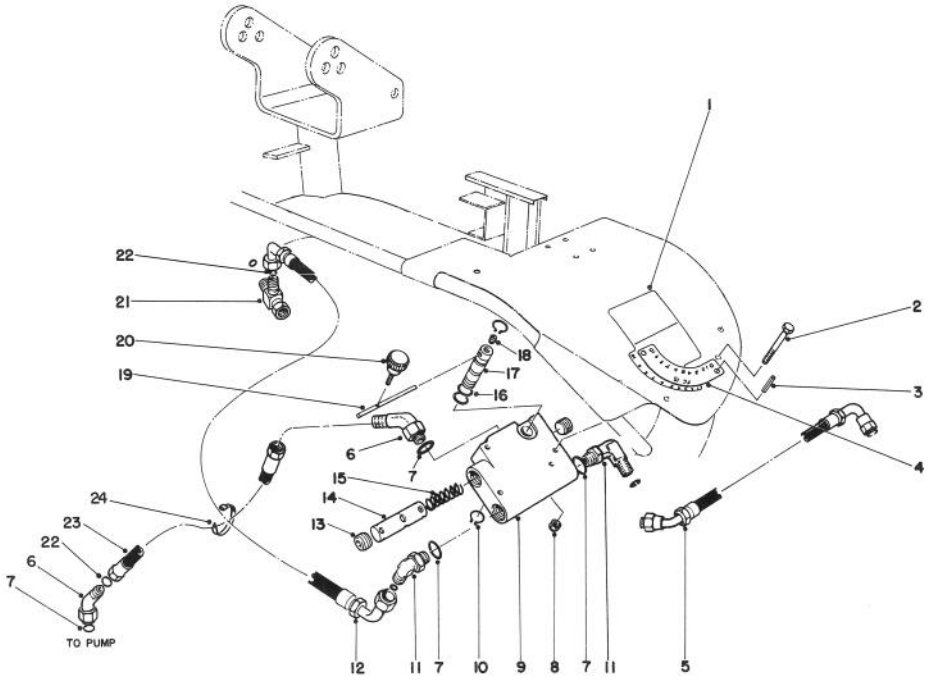


T-0333

BASKET REINFORCEMENT KIT NO. 26-0900 (Optional)

Ref. No.	Part No.	Description	No. Used
1	26-0930	Support - Lift	3
2	321-2	Screw - Cap, Hex. Hd.	36
3	32153-4	Nut - Lock	36

Ref. No.	Part No.	Description	No. Used
4	26-0940	Plate - Wear	6
5	26-0950	Plate Dished	6
6	3256-2	Washer - Flat	24



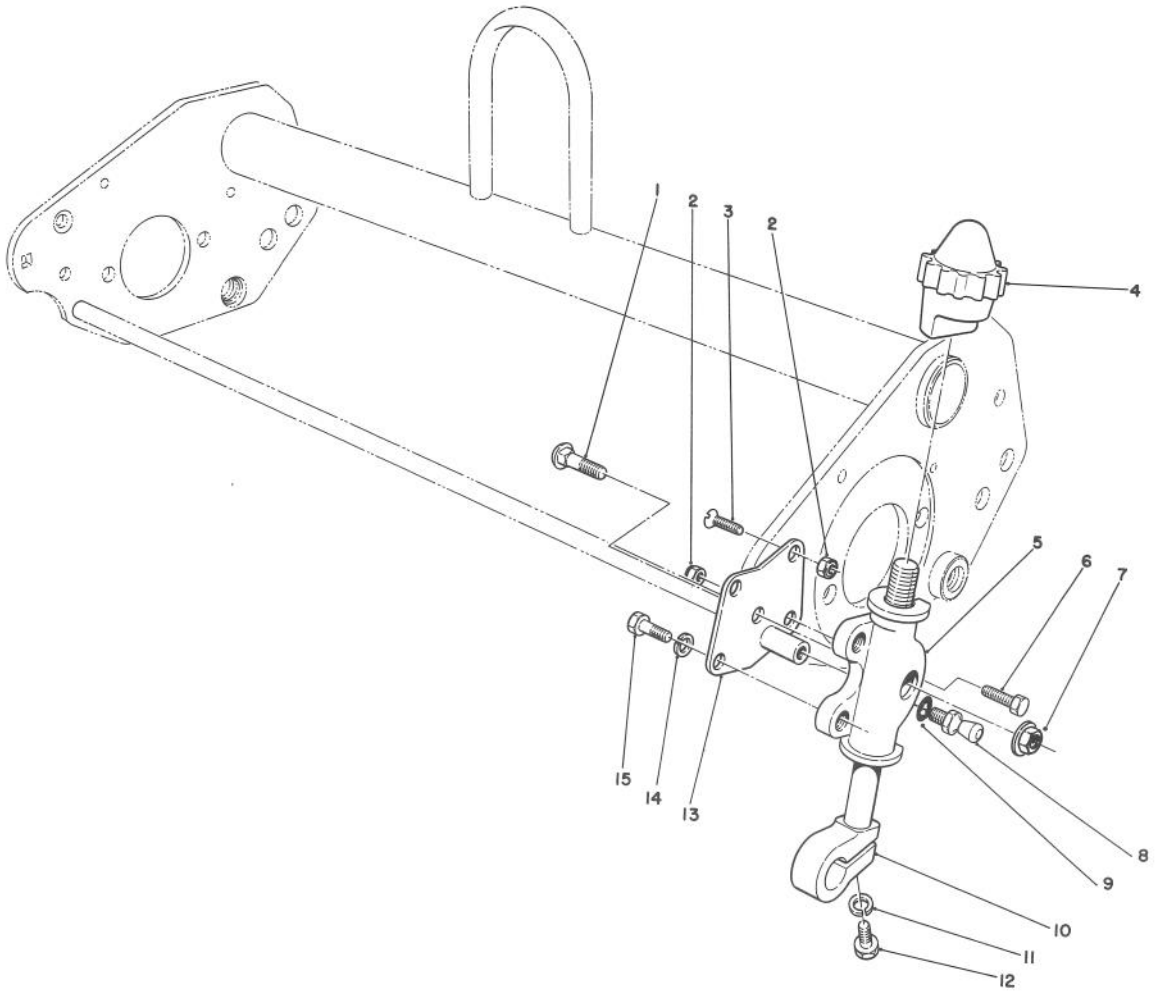
T-0385

VARIABLE TRACTION CONTROL KIT MODEL NO. 04421 (Optional)

Ref. No.	Part No.	Description	No. Used
1	74-3490	Decal - Traction Control	1
2	321-33	Screw- Cap Hex Hd.	2
3	32121-4	Pin - Roll Slotted	2
4	49-0320	Plate - Dial	1
5	68-5820	Hose - Hydraulic (Pressure)	1
6	340-89	Elbow - 45° (Incl. Ref. #7)	2
7	237-80	O-Ring	4
8	3296-56	Nut - Lock	2
9		Body-Main	1
10	32120-76	Ring - Snap	2
11	340-105	Elbow - 90° Adjustable	2
12	68-5790	Hose - Hydraulic (Return)	1
13	49-0300	Plug Pipe	2

Ref. No.	Part No.	Description	No. Used
14	49-0370	Spool - Metering	1
15	49-0340	Spring - Metering	1
16	237-54	O-Ring	2
17	66-1660	Spool - Lever Side	1
18	3274-42	Screw - Set Hex Socket	1
19	49-0350	Handle	1
20	49-0360	Screw - Thumb	1
21	340-104	Tee - Swivel Run	1
22	237-30	O-Ring	7
23	68-5800	Hose - Hydraulic	1
24	3290-378	Tie - Cable	3
*	47-6640	Valve Flow Control (Incl. Ref. #3, 4, 9, 10 & 13-20)	1

*Not Illustrated



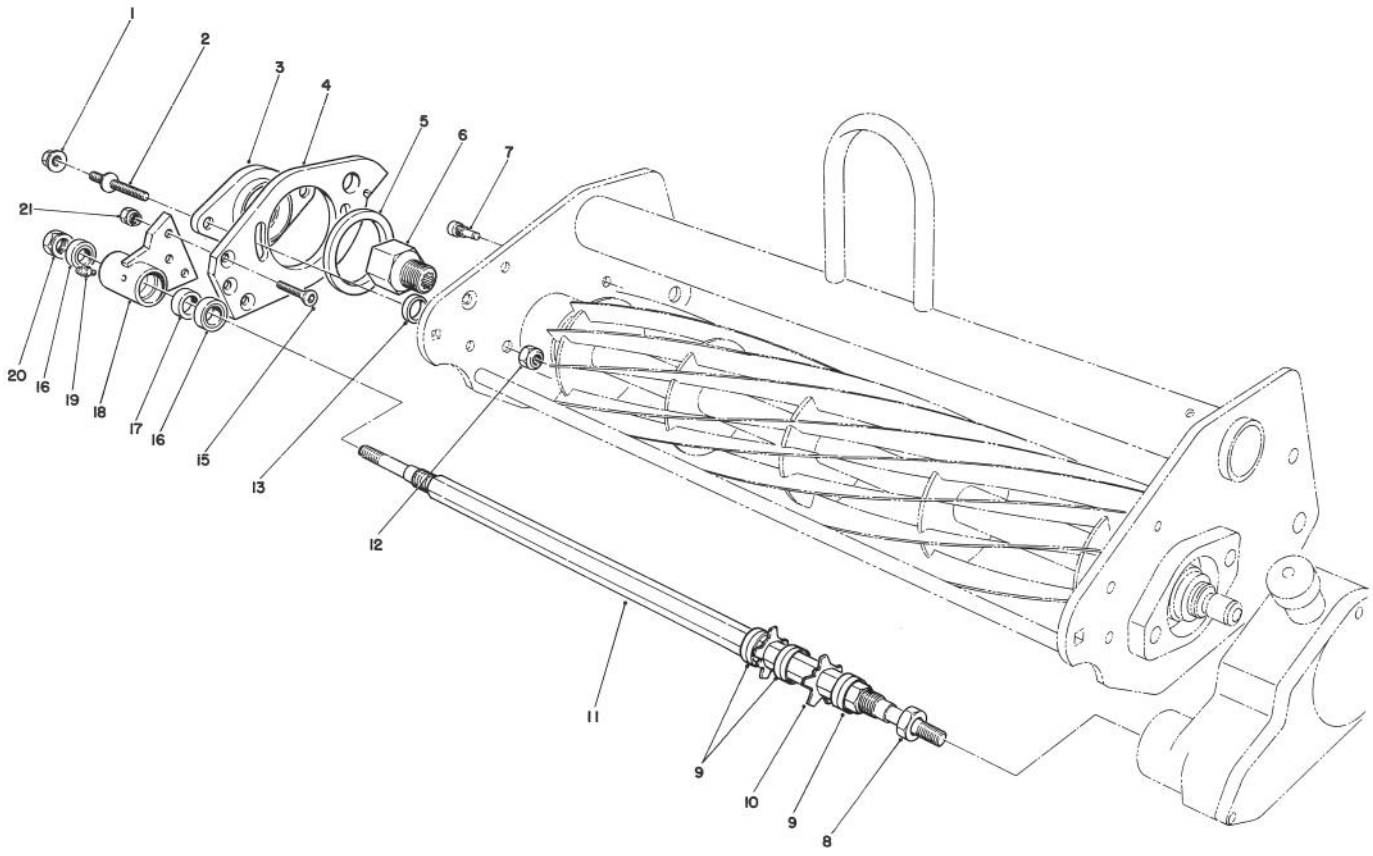
T-0329

8 & 11 BLADE CUTTING UNITS w/GROOMER
MODEL NO. 04460 & 04465

Ref. No.	Part No.	Description	No. Used
1	3230-5	Bolt - Carriage	2
2	3296-47	Nut - Lock	4
3	32108-20	Screw - Mach. Flat Hd.	2
4	10-5040	Knob - Height Adjustment	2
5	65-9490	Bracket - HOC	2
6	322-3	Screw - Cap, Hex. Hd.	2
7	32128-25	Nut - Hex. Flange	2
8	2411-7	Stud - Ball	2

Ref. No.	Part No.	Description	No. Used
9	3254-6	Washer - Lock, Int. Tooth	2
10	65-9500	Screw - Roller Adjustment	2
11	3253-3	Washer - Lock	2
12	321-4	Screw - Cap, Hex. Hd.	2
13	65-9530	Roller Extension W.A.- LH	1
*	65-9460	Roller Extension W.A.- RH	1
14	3253-4	Washer - Lock	4
15	322-2	Screw - Cap, Hex. Hd.	4

*Not Illustrated

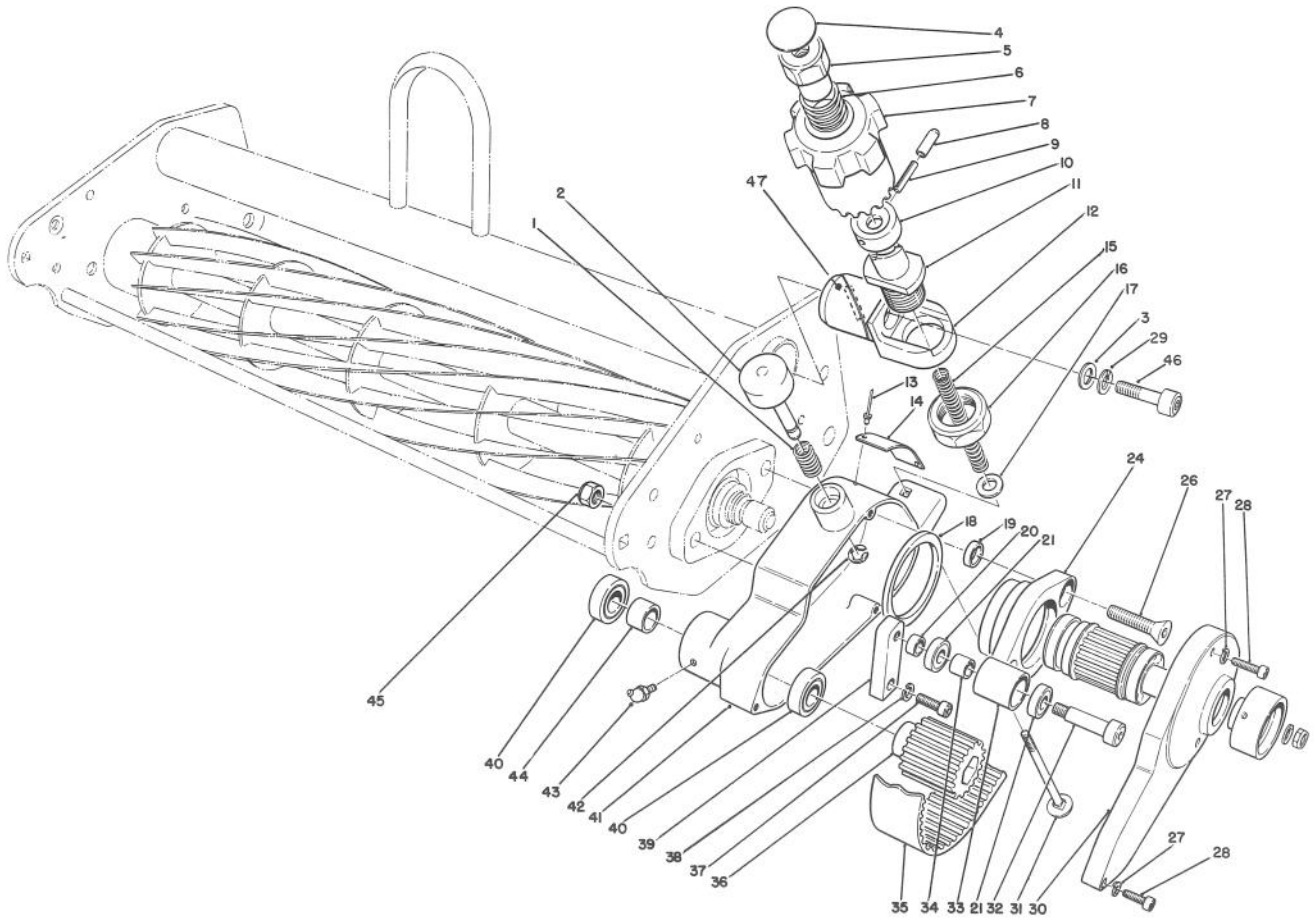


T-0330

8 & 11 BLADE CUTTING UNITS w/GROOMER MODEL NO. 04460 & 04465 (Continued)

Ref. No.	Part No.	Description	No. Used
1	32128-36	Nut - Flange	2
2	65-9970	Stud	2
3	65-9350	Adapter	1
4	65-9230	Plate - Side	1
5	65-9860	Bearing	1
6	77-0560	Nut - Splined	1
7	65-9960	Screw - Pivot	2
8	3296-60	Nut - Lock	2
9	70-1350	Spacer (41 Blade Reel)	84
10	70-1170	Blade (41 Blade Reel)	41

Ref. No.	Part No.	Description	No. Used
11	75-9980	Shaft	1
12	32152-2	Nut - Lock	2
13	65-9820	Spacer	2
15	3289-21	Screw - Hex. Soc. Fl. Hd.	3
16	251-327	Bearing - Ball	2
17	65-9300	Spacer	1
18	65-9220	Housing - Bearing	1
19	302-5	Fitting - Grease	1
20	3296-62	Nut	1
21	3296-4	Nut - Lock	3



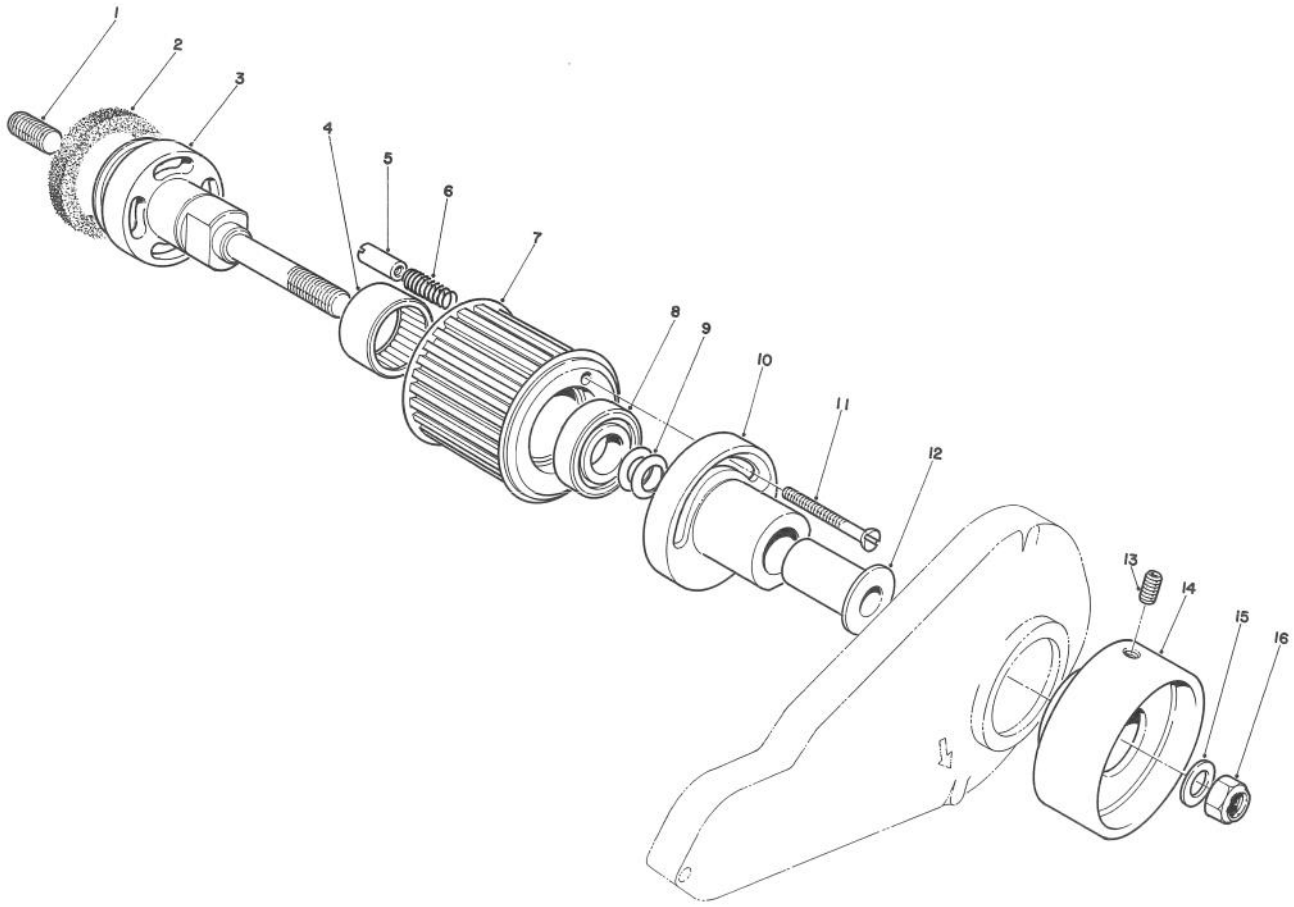
T-0651

8 & 11 BLADE CUTTING UNITS w/GROOMER MODEL NO. 04460 & 04465 (Continued.

Ref. No.	Part No.	Description	No. Used
1	65-9940	Spring	1
2	65-9930	Cap	1
3	3256-74	Washer - Flat	1
4	284-3	Plug - Expansion	2
5	65-9670	Driver	2
6	65-9580	Spring	2
7	65-9560	Adj. Knob Assembly (Incl. Ref. #4-6)	2
8	2410-68	Cover - Pin	2
9	32121-15	Pin - Roll	2
10	65-9550	Cap	2
11	65-9830	Ramp	2
12	70-7470	Block - Mounting (Modifed)	2
13	3290-271	Rivet - Pop	2
14	65-9950	Plate - Caution	1
15	65-9810	Spring	2
16	3296-49	Nut - Lock	2
17	3256-24	Washer - Flat (LH Side)	1
*	65-9850	Washer (RH Side)	1
18	65-9860	Bearing	1
19	65-9820	Spacer	2
20	65-9330	Spacer	1
21	251-328	Bearing	2

Ref. No.	Part No.	Description	No. Used
24	65-9350	Adapter	1
26	3289-19	Screw - Flat Hd. Socket	2
27	3253-12	Washer - Lock	3
28	3274-13	Screw - Cap, Soc. Head	3
29	3253-4	Washer - Lock	2
30	65-9710	Cover - Belt	1
31	65-9890	Bolt - Carriage	1
32	65-9340	Screw - Shoulder	1
33	65-9320	Idler - Pulley	1
34	65-9980	Spacer - Pulley, Idler	1
35	65-9700	Belt	1
36	65-9290	Pulley - Driven	1
37	3274-22	Screw - Cap, Hex. Soc.	1
38	3253-4	Washer - Lock	1
39	65-9310	Block - Idler	1
40	251-327	Bearing	2
41	65-9270	Housing - Drive, Belt	1
42	32120-18	Ring - Retaining	1
43	302-11	Fitting - Grease	1
44	65-9300	Spacer - Pulley, Driven	1
45	32152-2	Nut - Lock	2
46	3274-86	Screw - Cap, Soc. Hd.	2
47	257-10	Washer	2

*Not Illustrated

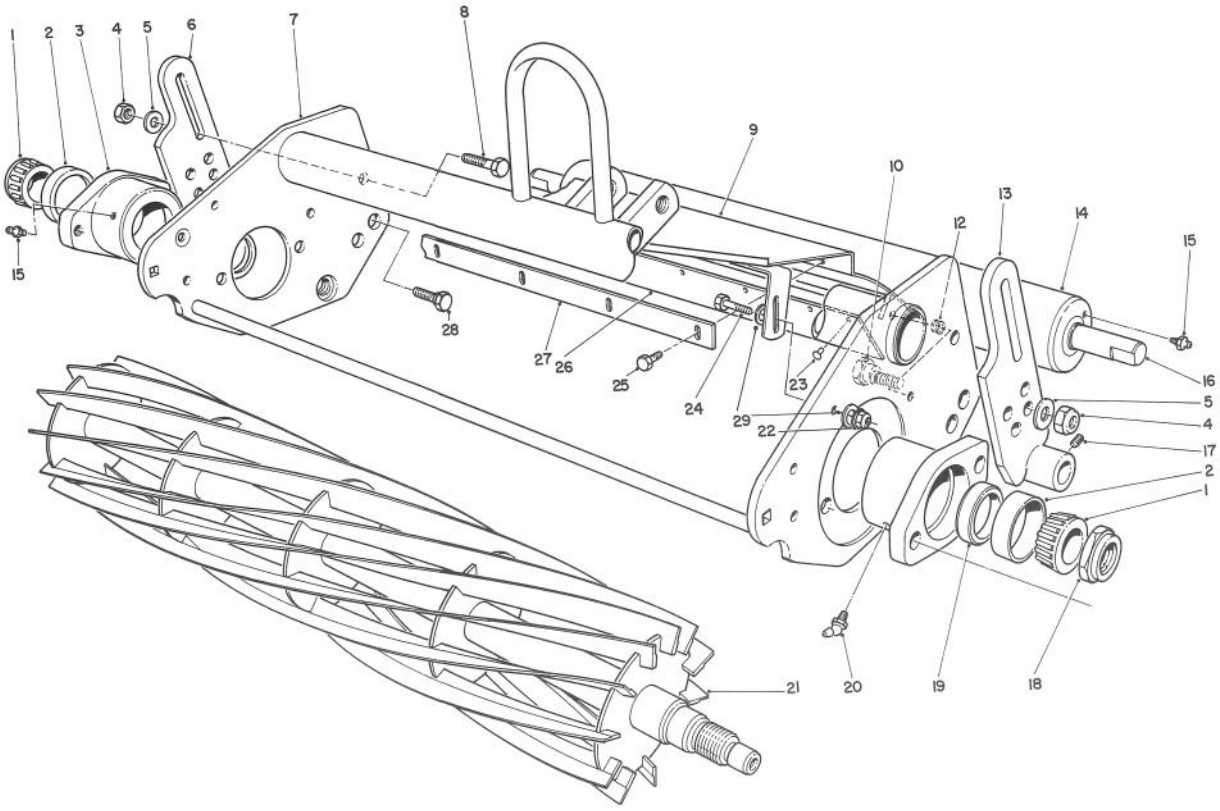


T-0322

8 & 11 BLADE CUTTING UNITS w/GROOMER MODEL NO. 04460 & 04465 (Continued)

Ref. No.	Part No.	Description	No. Used
1	75-9540	Screw - Set, Soc. Hd.	1
2	65-9900	Seal - Felt	1
3	65-9610	Adapter	1
4	252-110	Bearing - Needle	1
5	65-9660	Pin - Clutch	1
6	65-9670	Spring - Compression	1
7	65-9630	Pulley - Driver	1
8	251-327	Bearing - Roller	1

Ref. No.	Part No.	Description	No. Used
9	3290-480	Washer - Belleville	2
10	65-9640	Disc - Release, Clutch	1
11	65-9650	Screw - Special	1
12	256-300	Bushing - Flange	1
13	32110-13	Screw - Set	2
14	65-9680	Knob - Clutch	1
15	3256-24	Washer - Flat	1
16	3296-39	Nut - Lock	1



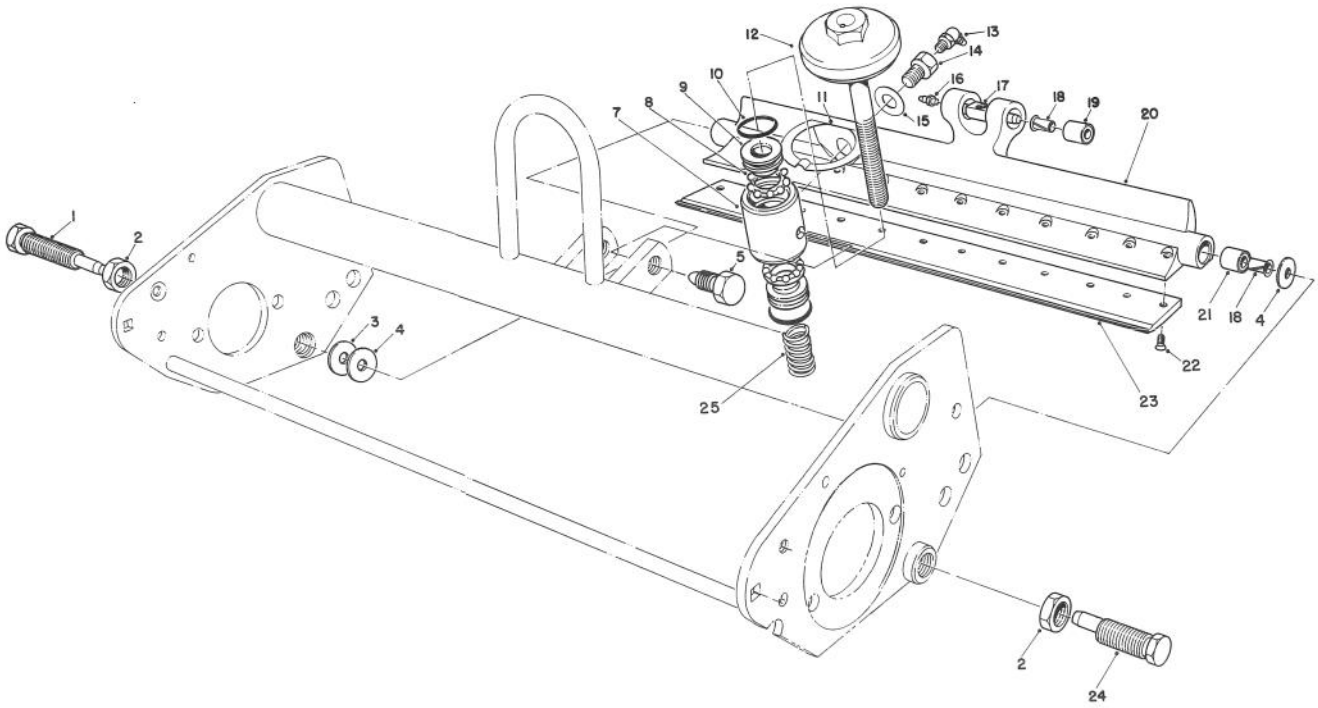
T-1124

8 & 11 BLADE CUTTING UNITS w/GROOMER MODEL NO. 04460 & 04465 (Continued)

Ref. No.	Part No.	Description	No. Used
1	254-94	Cone - Bearing	2
2	254-72	Cup - Bearing	2
3	10-5120	Housing - Bearing	2
4	3296-39	Nut - Lock	4
5	3256-24	Washer - Flat	4
6	77-1060	HOC Adjustment - RH	1
7	70-1200	Frame - Reel	1
8	323-7	Screw - Cap, Hex. Hd.	2
9	57-5200	Grass Shield Assembly (Incl. Ref. #26 & 27)	1
10	52-3100	Bolt - Eccentric, HOC - LH	1
12	237-84	Grommet	2
13	77-1080	HOC Adjustment - LH	1
14	52-3120	Rear Roller Adjustment (Incl. Ref. #15 & 16)	1
15	302-5	Fitting - Grease	2
16	21-8430	Bearing - Roller, Rear	2
17	3246-2	Screw - Set	2
18	3296-60	Nut - Lock	1
19	253-96	Seal	2

Ref. No.	Part No.	Description	No. Used
20	302-11	Fitting - Grease	1
21	12-2789	Reel - 11 Blade (Model No. 04450)	1
*	12-3599	Reel 8 Blade (Model No. 04465)	1
22	3296-42	Nut - Lock	2
23	3295-46	Rivet	13
24	321-5	Screw - Cap, Hex. Hd.	2
25	32144-73	Screw - Self Tapping	5
26	57-5210	Flap - Shield	1
27	36-7260	Cut-Off Bar	1
28	52-3110	Bolt - Shoulder, HOC - RH	1
29	3256-22	Washer - Flat	4
*	13-8199	Bar Adj. Gauge (Includes †)	1
†	32122-2	Screw - Truss Head	1
†	3219-4	Nut	1
*†		Brush - Backlapping	1
*†		Bearing Replacement Tool Kit	1

*Not Illustrated
*†Special Tool for installation



T-1125

8 & 11 BLADE CUTTING UNITS w/GROOMER MODEL NO. 04460 & 04465 (Continued)

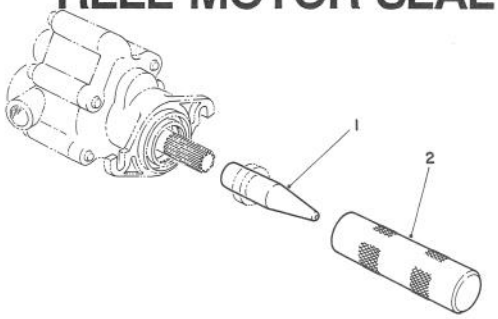
Ref. No.	Part No.	Description	No. Used
1	52-2930	Bolt - Shoulder, RH	1
2	3220-6	Nut - Hex. Jam	2
3	52-2860	Washer	1
4	52-2900	Washer - Poly	2
5	66-7240	Screw - Pivot, SPA	2
7	77-0330	Pivot - Single Point Adj.	1
8	77-0350	Washer - Thrust, Nylon	2
10	257-5	Washer - Steel	1
11	66-7220	Arm - Spring	1
12	77-0300	Handle Assembly	1
14	324-25	Screw - Cap, Hex. Hd.	1
15	3256-25	Washer - Flat	1
16	302-18	Fitting - Grease	1
17	57-5260	Pivot - Bedbar	1

Ref. No.	Part No.	Description	No. Used
18	52-2890	Bushing - Flanged	4
19	62-5510	Bushing Assy. - Rubber	2
20	57-4940	Bedbar	1
21	63-9510	Bushing Assy. - Rubber	1
22	57-4910	Screw - Special	13
23	63-8560	Bed Knife - Tournament	1
*	62-2500	Bed Knife - 3/16"	1
*	63-8470	Bed Knife - 1/8"	1
*	63-8600	Bed Knife - Fairway	1
24	52-2910	Bolt - Eccentric, LH	1
25	66-7230	Spring - Compression	1
26	77-0490	Decal - Bolt, Eccentric	1
*	13-3659	Overhaul Kit	1
*†		Tool - Bed Knife Screw	1

*Not Illustrated
*†Special Tool for installation

SPECIAL TOOLS

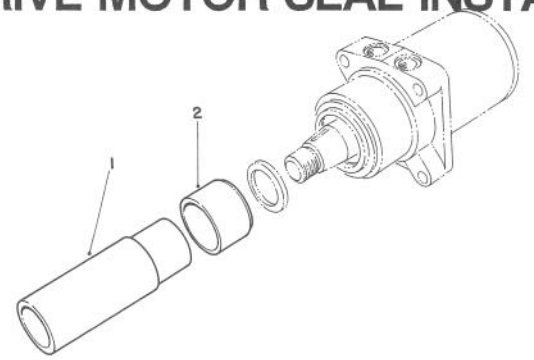
REEL MOTOR SEAL INSTALLATION TOOLS



T-0727

Ref. No.	Part No.	Description	No. Used
1	49-1430	Protector - Seal	1
2	49-1450	Installer - Seal	1

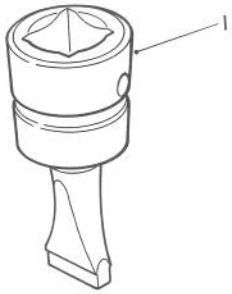
DRIVE MOTOR SEAL INSTALLATION TOOL NO. 19-2660



T-0728

Ref. No.	Part No.	Description	No. Used
1		Driver- Seal	1
2		Holder - Seal	1

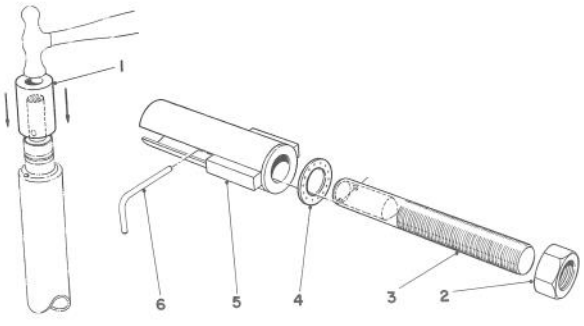
BED KNIFE SCREW TOOL NO. 51-0880



T-0729

Ref. No.	Part No.	Description	No. Used
1		Tool - Bed Knife Screw	1

BEARING REPLACEMENT TOOL KIT NO. 23-8900



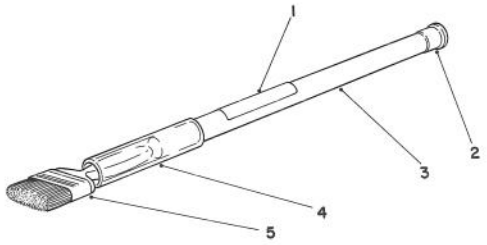
T-0730

Ref. No.	Part No.	Description	No. Used
1	23-8880	Driver - Bearing	2
2	3219-18	Nut - Hex.	1
3	23-8840	Puller - Bolt	1
4	22-6090	Washer - Thrust	1
5	23-8850	Tube - Support	1
6	23-8860	Pin - Bearing Rplcmnt.	1

Note: Special tools may be ordered from: Owatonna Tool Co. 2013 4th St. NW Owatonna, Mn 55060

SPECIAL TOOLS (Continued)

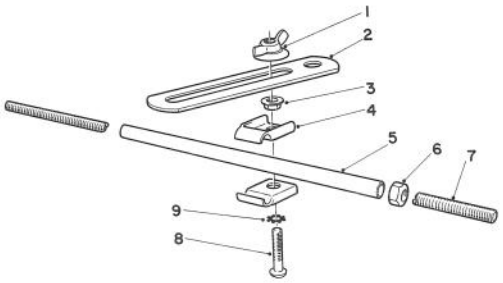
BACKLAPPING BRUSH ASSEMBLY NO. 29-9100



T-0731

Ref. No.	Part No.	Description	No. Used
1	12-9140	Decal	1
2	2410-18	Plug	1
3	29-9080	Handle	1
4	29-9090	Hose - Handle	1
5	36-4310	Brush	1

ALIGNMENT TOOL NO. 20-0120



T-0732

Ref. No.	Part No.	Description	No. Used
1	3-4808	Nut - Wing	1
2	20-0110	Bracket - Alignment	1
3	32128-20	Nut - Lock, Flange	1
4	3-6657	Clip - Skid	2
5	20-0070	Tube	1
6	3219-2	Nut - Hex.	1
7	20-0080	Rod	1
8	32122-35	Screw - Truss Hd.	1
9	3255-8	Washer - Lock. Int. Tooth	1

Note: Special tools may be ordered from: Owatonna Tool Company
2013 4th St. NW
Owatonna, Mn 55060

MAINTENANCE RECORD

Date								

PRODUCT CHANGES

In an effort to make improvements available to TORO owners as quickly as possible minor changes are incorporated into Toro's products from time to time that do not become immediately shown in the Parts Catalog. If such a change has been made in your unit which is not reflected in your manual see your TORO Distributor or his Authorized TORO Service Dealer for information and part numbers.

IDENTIFICATION AND ORDERING

MODEL AND NUMBERS

The Greensmaster 3000D has two identification numbers; a model number and a serial number. The two numbers are stamped on a plate which is located on the main frame under the seat. In any correspondence concerning the Greensmaster 3000D supply model and serial numbers to assure that correct information and replacement parts are obtained.

To order replacement parts from an Authorized TORO Service Dealer supply the following information:

1. Model and serial number of the Greensmaster 3000D.
2. Part number description and the quantity of part(s) desired.

NOTE: Do not order by reference number if a parts catalog is being used; use the PART NUMBER.

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Certifie Conforme au Reglement sur le Brouillage Radioelectrique.

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