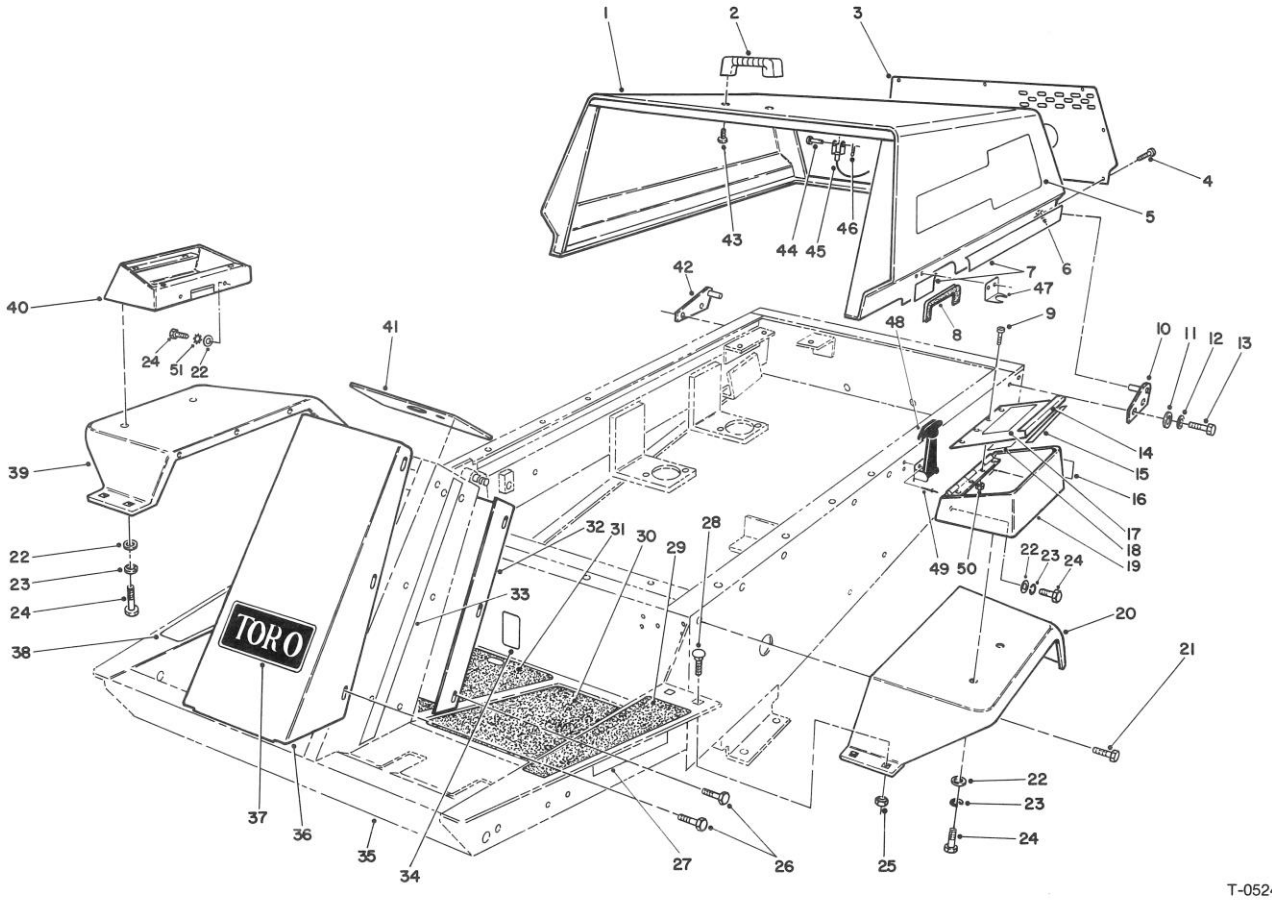
FORM NO. 3313-767

TORO®

MODEL NO. 30794 — 90350 & UP

PARTS CATALOG

GROUNDSMASTER® 220-D



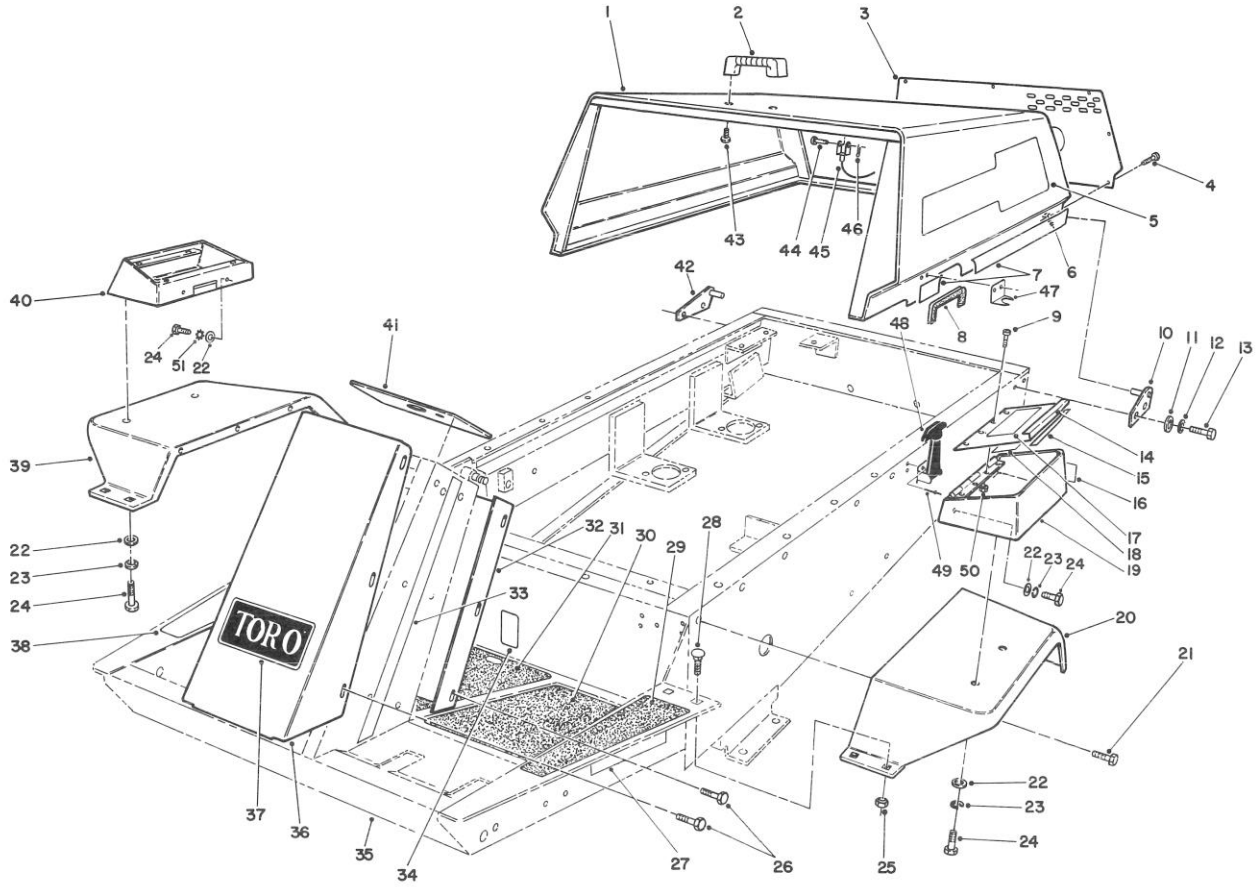
BODY ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	63-6950	Hood Assembly	1
2	65-5100	Handle — Hood	1
3	63-7030	Screen — Hood	1
4	321-39	Screw — Cap Hex. Hd.	7
5	63-7670	Decal— Groundsmaster 220-D	2
6	3296-42	Nut — Hex	7
7	66-8680	Decal — Hood L.H.	1
*	66-8670	Decal — Hood R.H.	1
8	66-8110	Trim — Hood	1
9	3290-359	Screw — Machine	4
10	63-6900	Plate Hinge L.H.	1
11	3256-23	Washer — Flat	4
12	3253-4	Washer — Lock	4
13	322-5	Screw — Cap Hex. Hd.	4
14	66-3040	Cover — Tool Box	1

Ref. No.	Part No.	Description	No. Used
15	66-3050	Strip — Magnetic	1
16	27-7310	Decal (over fill caution)	1
17	66-8880	Decal — Caution	1
18	72-4330	Decal — Service	1
19	66-2830	Box — Tool	1
20	63-7310	Fender L.H.	1
21	3234-14	Screw — Cap Hex. Hd.	8
22	3256-22	Washer — Flat	8
23	3253-3	Washer — Lock	7
24	321-4	Screw — Cap Hex. Hd.	8
25	32149-1	Nut — Hex	4
26	46-6810	Screw — Cap Hex. Hd.	14
27	67-1720	Decal — Caution	2
28	3230-23	Bolt — Carriage	4
29	66-3200	Tread — Foot Rest L.H.	1

*Not Illustrated

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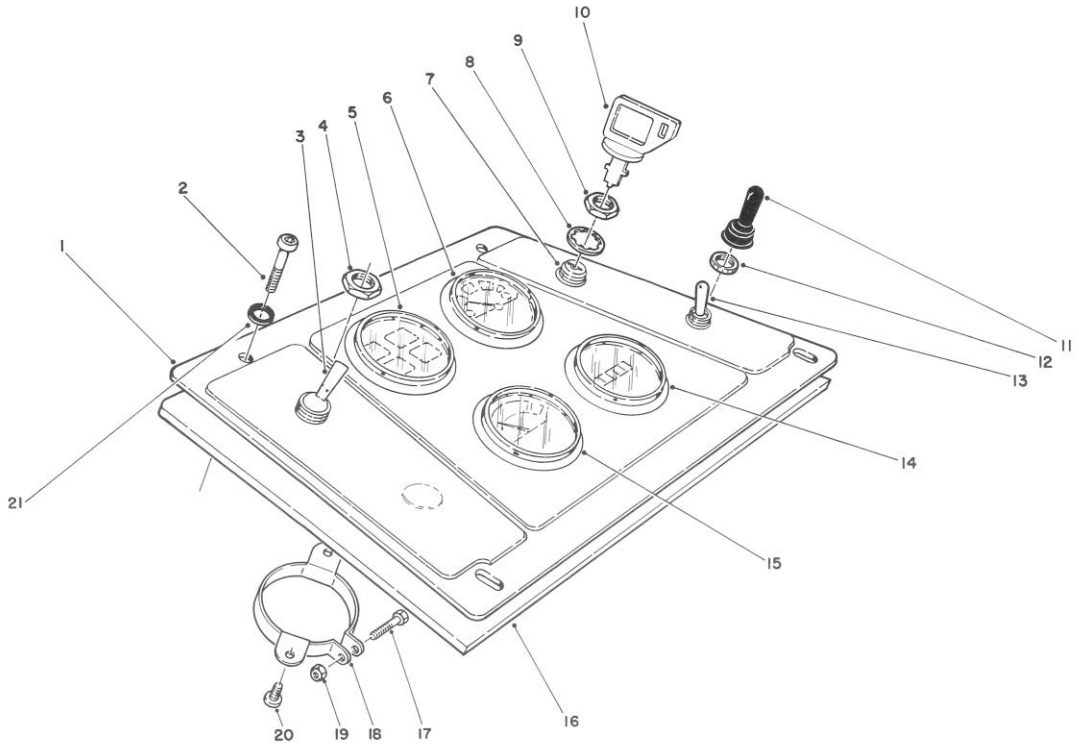
T-0524-89

BODY ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
30	66-3210	Tread — Foot L.H.	1
31	66-3220	Tread — Foot R.H.	1
32	63-7320	Cover — Tower Rear	1
33	66-8760	Decal — Tower L.H.	1
*	66-8770	Decal — Tower R.H.	1
34	53-4430	Decal — Oil	1
35	71-3110	Frame Assembly	1
36	63-7330	Cover — Tower Front	1
37	62-5550	Decal — TORO	1
38	66-8890	Decal Traction Pedal	1
39	63-7300	Fender — R.H.	1
40	63-8050	Box — Control	1

Ref. No.	Part No.	Description	No. Used
41	66-2470	Plate — Tower	1
42	63-6890	Plate — Hinge R.H.	1
43	46-8091	Screw — Cap Hex. Hd.	2
44	283-58	Pin — Clevis	1
45	66-2870	Cable — Hood Stop	1
46	3272-10	Pin — Cotter	1
47	60-8660	Keeper	1
48	60-8670	Latch — Flexible Draw	1
49	3290-271	Rivet	4
50	3296-12	Nut — Hex	4
51	3255-7	Washer — Ext. Tooth	1

*Not Illustrated

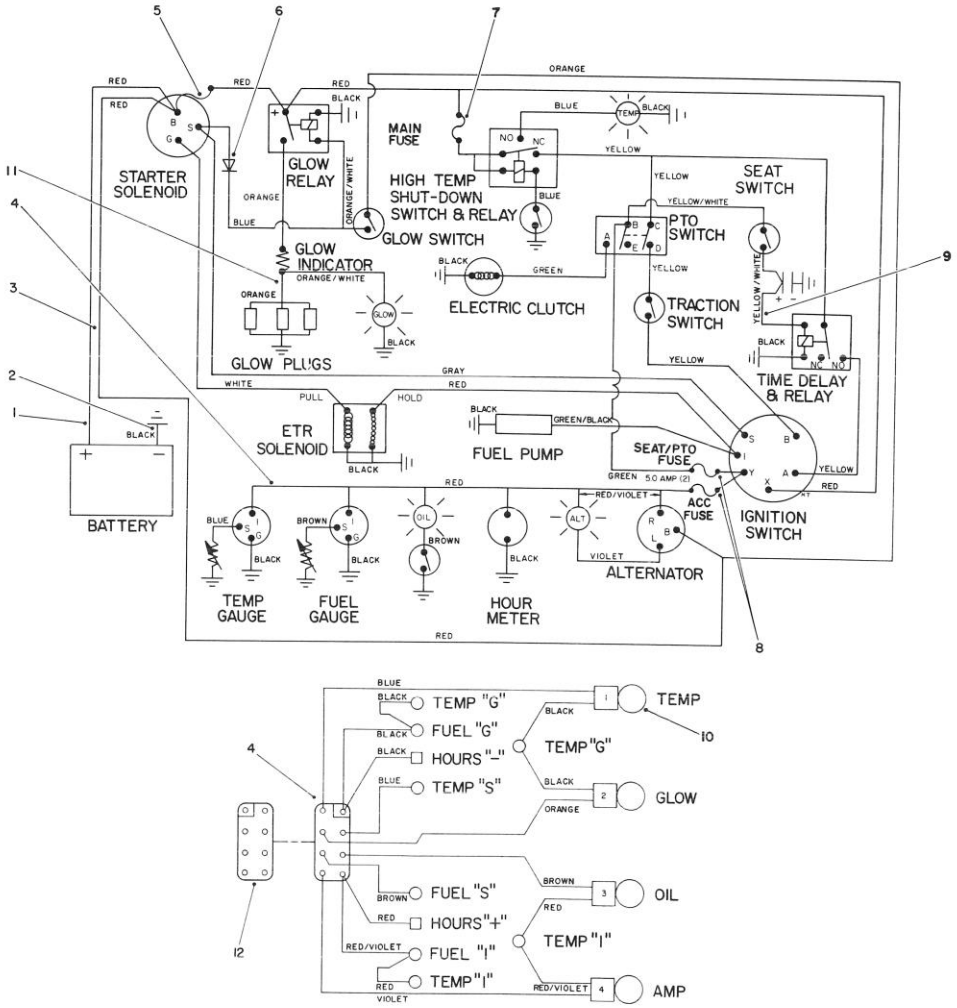


T-0525-89

CONTROL PANEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	66-2460	Plate — Control Panel	1
2	3274-68	Screw — Socket Button Hd.	4
3	37-2610	Switch — PTO (Incl. Ref. #4)	1
4	218-500	Nut — Hex	1
5	66-2960	Warning Light Cluster	1
6	66-2940	Gage — Fuel	1
7	27-2360	Switch — Ignition (Incl. Ref. #8-10)	1
8	218-447	Washer — Lock	1
9	218-446	Nut — Hex	1
10	63-8360	Key — Ignition	1

Ref. No.	Part No.	Description	No. Used
11	218-473	Boot — Switch	1
12	218-497	Nut — Face	1
13	6-1659	Switch — Glow Plugs (Incl. Ref. #11 & 12)	1
14	66-2950	Meter — Hour	1
15	63-7430	Gage — Temperature	1
16	63-7990	Panel — Control	1
17	32105-1	Screw	1
18	69-4780	Clamp — Gauge	1
19	3296-2	Nut — Lock	1
20	32144-39	Screw — Pan Hd. Thread Forming	2

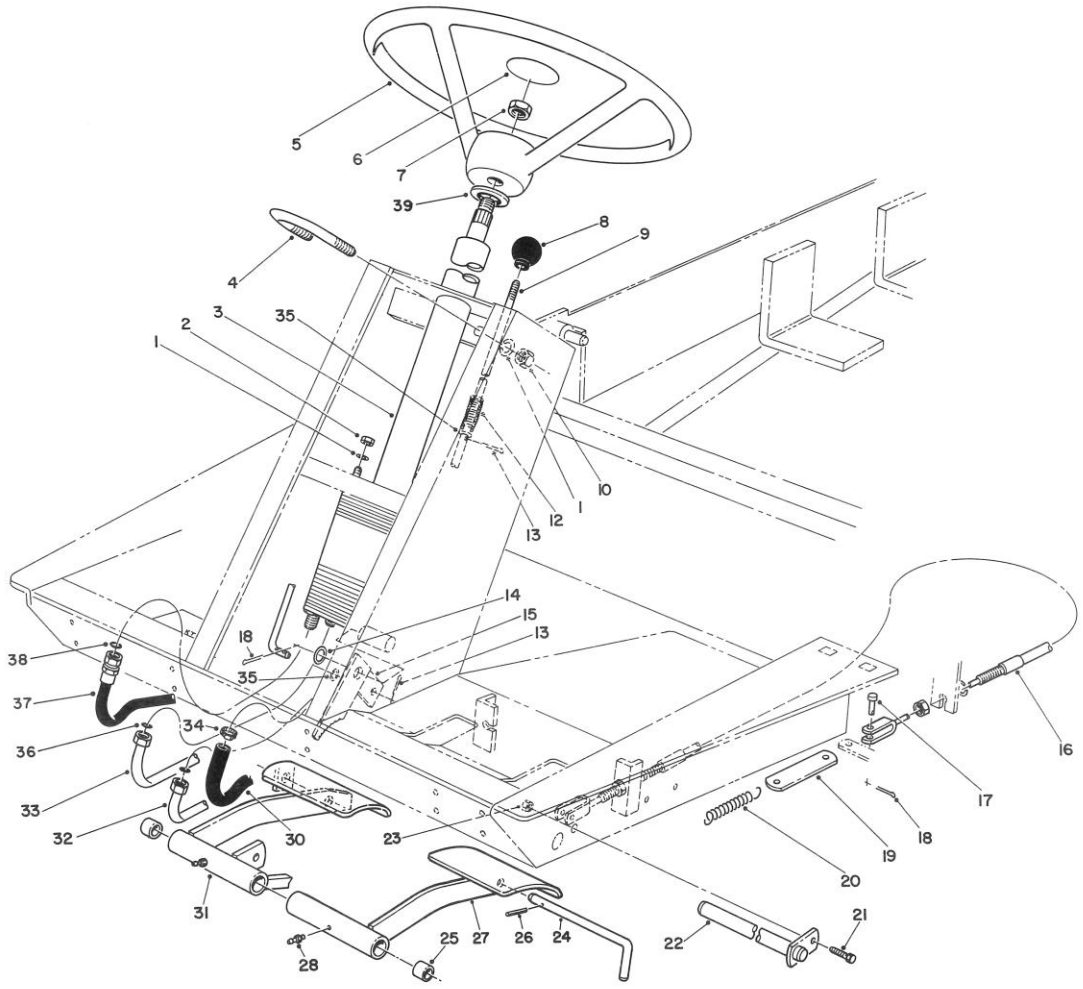


T-0526-89

ELECTRICAL SCHEMATIC

Ref. No.	Part No.	Description	No. Used
1	43-4031	Wire Positive	1
2	63-7340	Wire — Ground	1
3	71-1530	Wire Harness (Incl. Ref. #5 & 6)	1
4	66-8690	Lamp Harness (Incl. Ref. #10)	1
5	67-7120	Fusible Link	1

Ref. No.	Part No.	Description	No. Used
6	67-7130	Diode	1
7	218-574	Fuse 7.5A	1
8	218-573	Fuse 5.0A	2
9	67-7180	Wire — Seat	1
10	219-17	Light Bulb	4
11	68-7370	Wire — Glow	1
12	68-7380	Connector Assembly	1

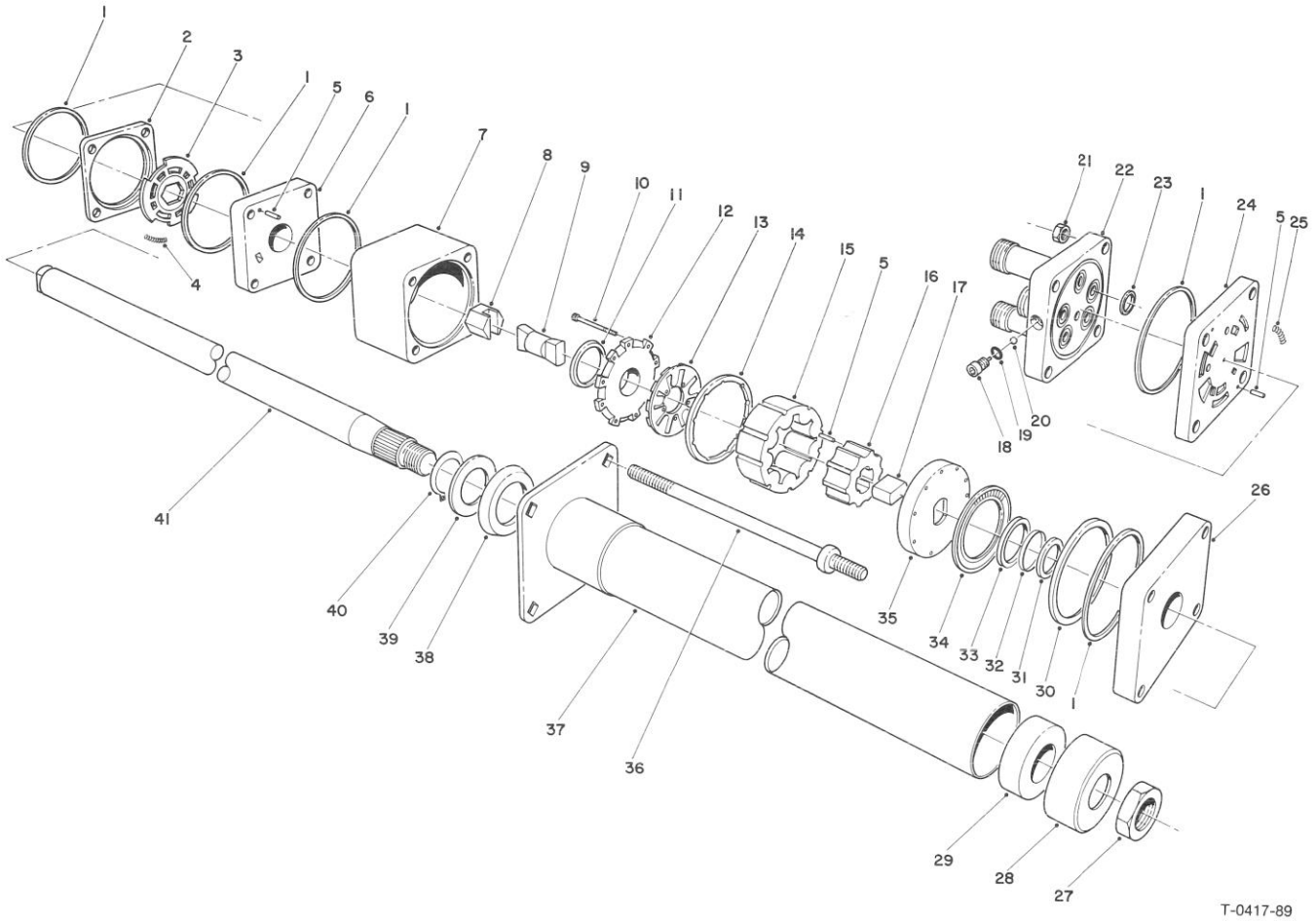


POWER STEERING & BRAKE PEDAL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3256-23	Washer — Flat	6
2	3296-20	Locknut	4
3	63-9250	Valve — Power Steering (Incl. Ref. #7)	1
4	54-8970	U-Bolt	1
5	24-2000	Wheel — Steering	1
6	24-2090	Cap — Steering Wheel	1
7	3220-6	Hex Nut	1
8	233-17	Knob	1
9	63-7910	Rod — Brake Latch	1
10	3296-29	Locknut	2
12	3-3251	Spring	1
13	3272-5	Cotter Pin	4
14	3256-26	Washer — Flat	1
15	63-7900	Rack — Brake	1
16	63-7730	Brake Cable Assy. L.H.	1
*	63-7731	Brake Cable Assy. R.H.	1
17	283-58	Pin — Clevis	4
18	3272-10	Cotter Pin	5
19	63-6750	Link — Brake Cable	2
20	3-7243	Spring — Return	2
21	321-3	Hex Hd. Capscrew	1

Ref. No.	Part No.	Description	No. Used
22	63-6210	Pin — Brake	1
23	3296-42	Locknut	1
24	63-7880	Pin — Brake Latch	1
25	256-42	Bushing	4
26	32121-50	Roll Pin	1
27	63-6180	Pedal — L.H. Brake (Incl. Ref. #25 & 28)	1
28	302-5	Fitting — Grease	2
29	7-3900	Foot Pad — Brake	2
30	66-8140	Hose	1
31	63-6190	Pedal — R.H. Brake (Incl. Ref. #25 & 28)	1
32	66-8630	Tube — Hydraulic (Str.-Lift)	1
33	66-8620	Tube — Hydraulic (Pump-Str.)	1
34	2412-36	Clamp	2
35	3256-22	Washer — Flat	3
36	237-30	O — Ring (-6)	2
37	66-8170	Hose — Hydraulic	2
*	44-8530	Sock — Hose	1
38	237-22	O — Ring (-8)	2
39	21-9260	Dust Cover	1

*Not Illustrated

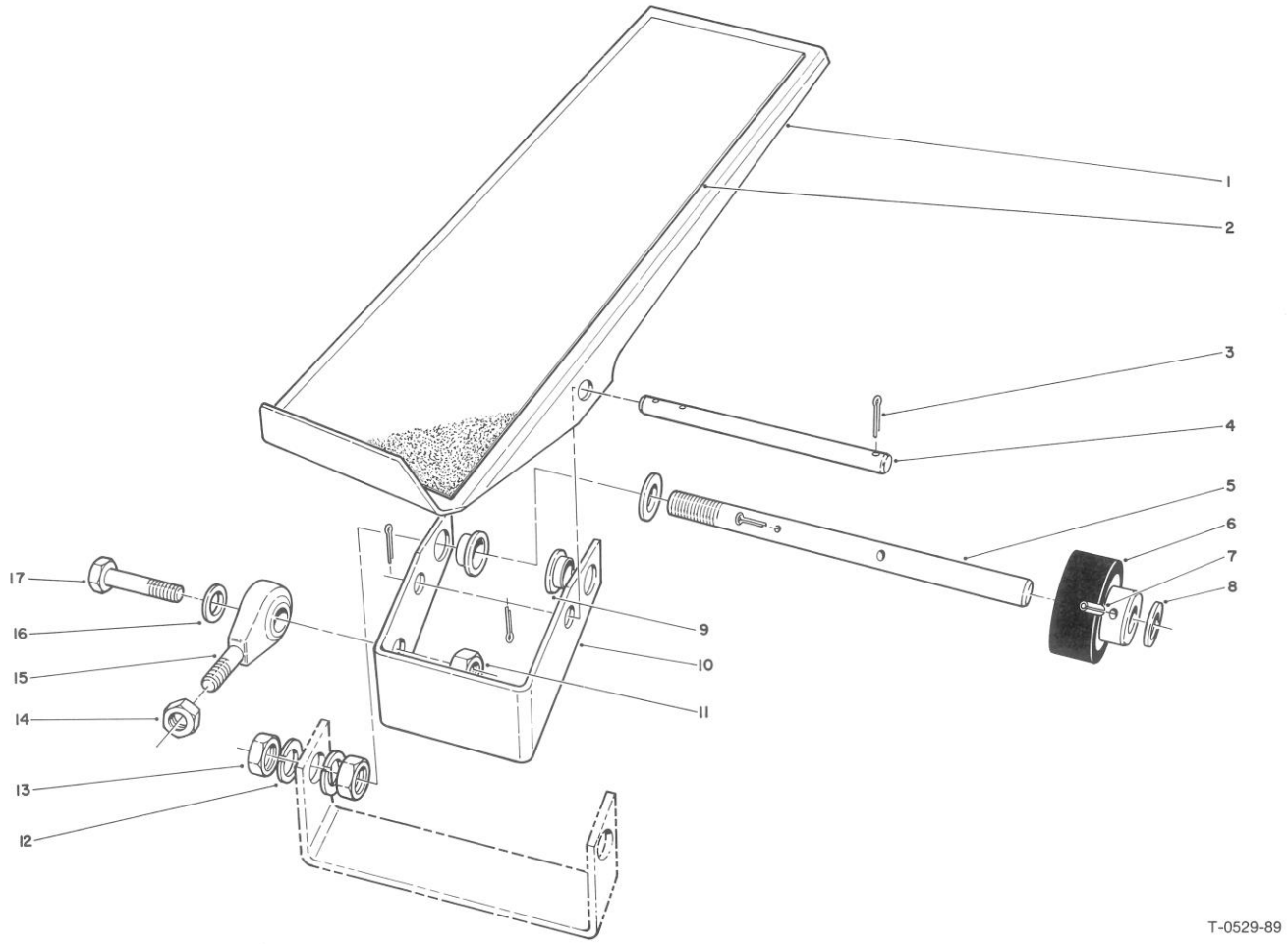


STEERING VALVE ASSEMBLY NO. 63-9250

Ref. No.	Part No.	Description	No. Used
1		Ring — Seal	5
2		Ring — Valve	1
3		Plate — Valve	1
4		Spring	3
5		Pin — Alignment	9
6		Manifold — Isolation	1
7		Ring — Metering	1
8		Hex Drive Assy.	1
9		Link — Drive	1
10		Hex Socket Hd. Screw	11
11		Seal — Commutator	1
12		Cover — Commutator	1
13		Commutator	1
14		Ring — Commutator	1
15		Stator	1
16		Rotor	1
17		Spacer — Drive Link	1
18		Plug	1
19		O-Ring	1
20		Ball	1
21		Hex Nut	4
22		Cover — Port	1

Ref. No.	Part No.	Description	No. Used
23		O-Ring	5
24		Manifold — Port	1
25		Spring	3
26		Plate — Upper Cover	1
27	3220-6	Nut	1
28	66-9770	Seal	1
29	66-9780	Bushing	1
30		Spacer — Thrust Bearing	1
31		Spacer — Seal	1
32		Ring — Back Up	1
33		Seal — Face - spring on the outside	1
34		Bearing — Thrust	1
35		Plate — Drive	1
36	66-9850	Bolt — Special	4
37	66-9860	Upper Cover & Jacket	1
38	66-9870	Plate — Retaining	1
39	66-9880	Washer — Retaining Plate	1
40	66-9890	Ring — Retaining	1
41	66-9900	Shaft — Input	1
*	66-9970	Spring Kit	1
*	66-9980	Seal Kit	1
*	66-9990	Needle Roller Kit	1

*Not Illustrated

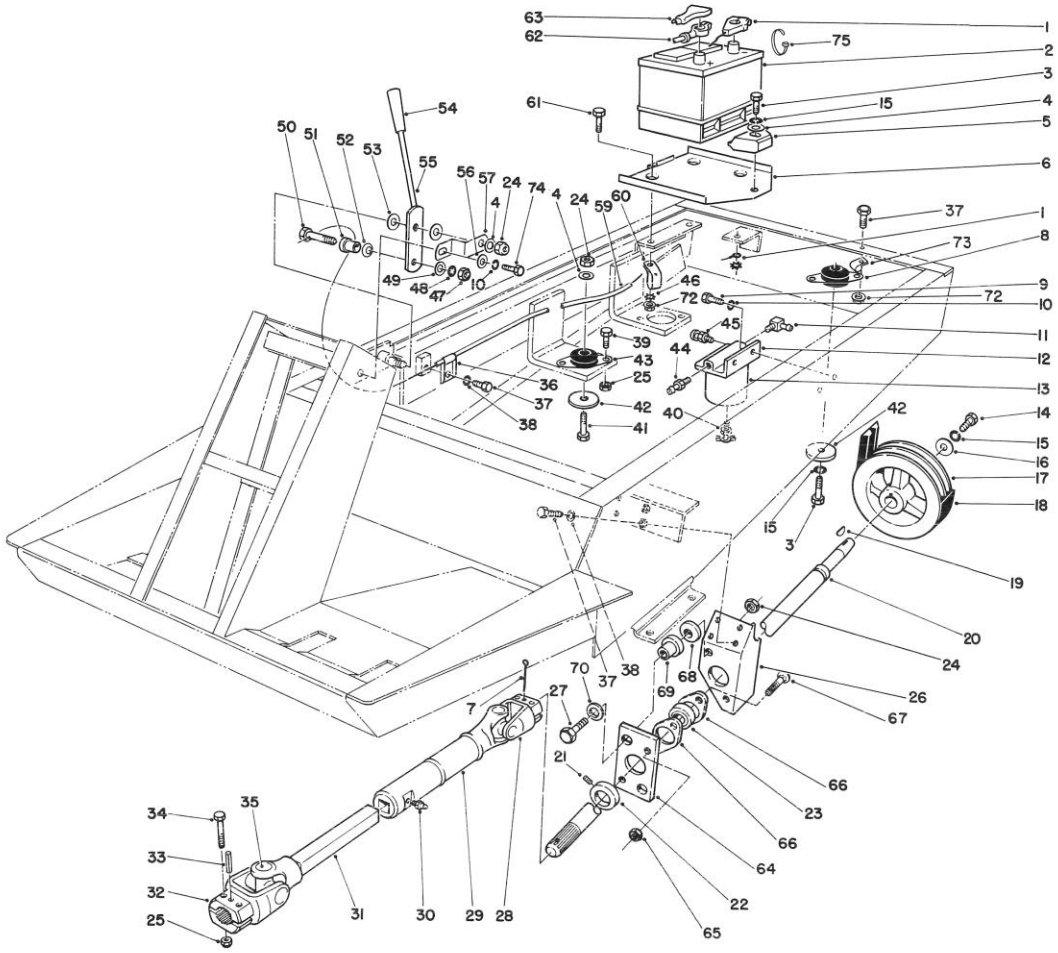


T-0529-89

TRACTION PEDAL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	63-7930	Pedal — Traction	1
2	28-5130	Pad — Traction Pedal	1
3	3272-10	Pin — Cotter	4
4	29-5630	Pin — Pedal Pivot	1
5	63-6160	Shaft — Traction Pedal	1
6	28-5220	Wheel — Friction	1
7	32121-16	Pin — Roll	1
8	5-7570	Washer	2
9	256-156	Bushing — Flange	2

Ref. No.	Part No.	Description	No. Used
10	63-6170	Pivot Bracket Assembly (Incl. Ref. #9)	1
11	3296-39	Nut — Lock	1
12	3253-7	Washer — Lock	2
13	3218-5	Nut — Jam	2
14	3220-3	Nut — Jam	1
15	2411-36	End — Rod	1
16	3256-24	Washer — Flat	1
17	323-8	Screw — Cap Hex. Hd.	1



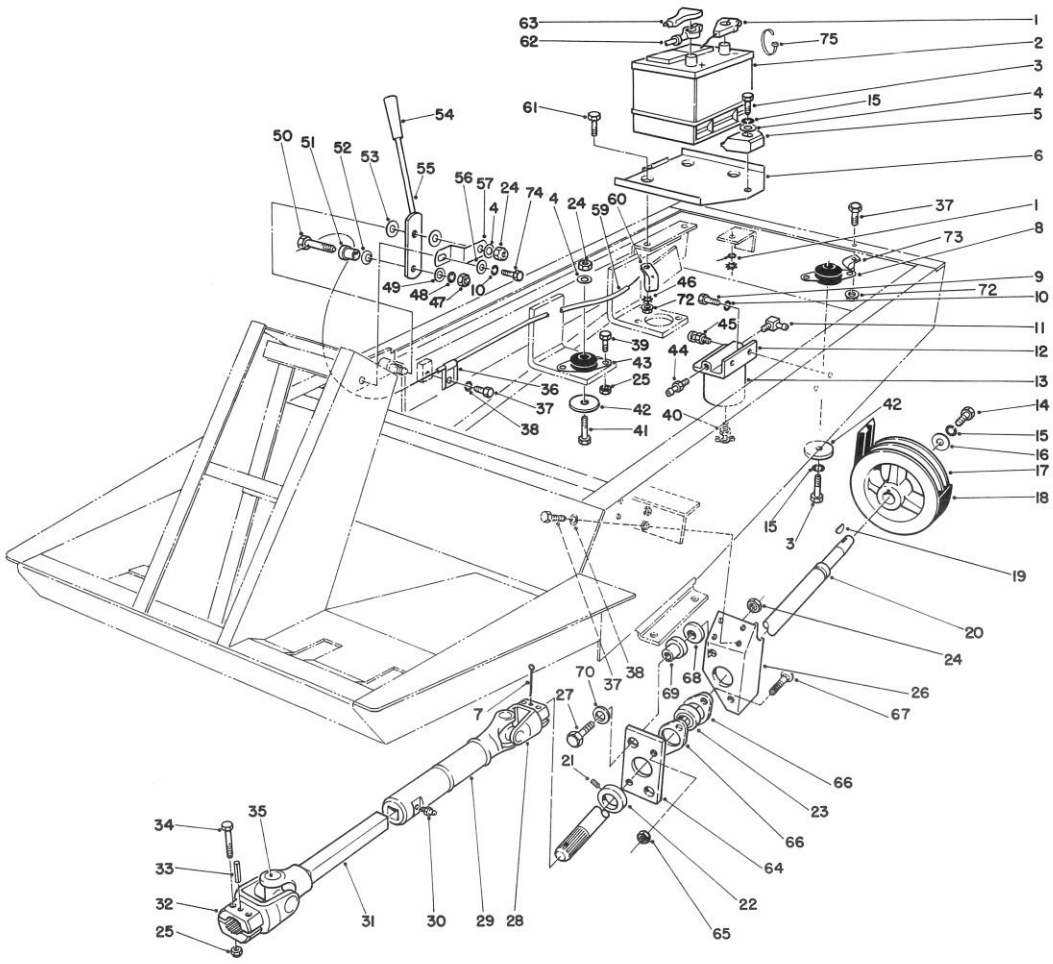
T-0530-89

POWER TAKE OFF BATTERY & ENGINE MOUNT

Ref. No.	Part No.	Description	No. Used
1	63-7340	Wire — Ground	1
2†		Battery	
		Type 26 SMF-5	1
3	323-9	Screw — Cap Hex Hd.	11
4	3256-24	Washer — Flat	4
5	66-2490	Clamp — Battery Retainer	1
6	66-2330	Base — Battery	1
7	3272-15	Pin — Cotter	1
8	63-7141	Mount — Shock (Red)	1
9	321-4	Screw — Cap	2
10	3253-3	Washer — Lock	3
11	353-707	Fitting 90°	1
12	63-8280	Head Assy.	1
13	63-8300	Element, Spin-On	1
14	323-18	Screw — Cap Hex Hd.	1
15	3253-21	Washer — Lock	8
16	29-4730	Washer — PTO	1
17	43-5320	Pulley — PTO	1
18	63-6240	Belt — PTO	1
19	3257-5	Key — Woodruff	1
20	63-6220	Shaft — PTO	1
21	3246-1	Setscrew	1
22	251-77	Collar — Locking	1

†Obtain Locally

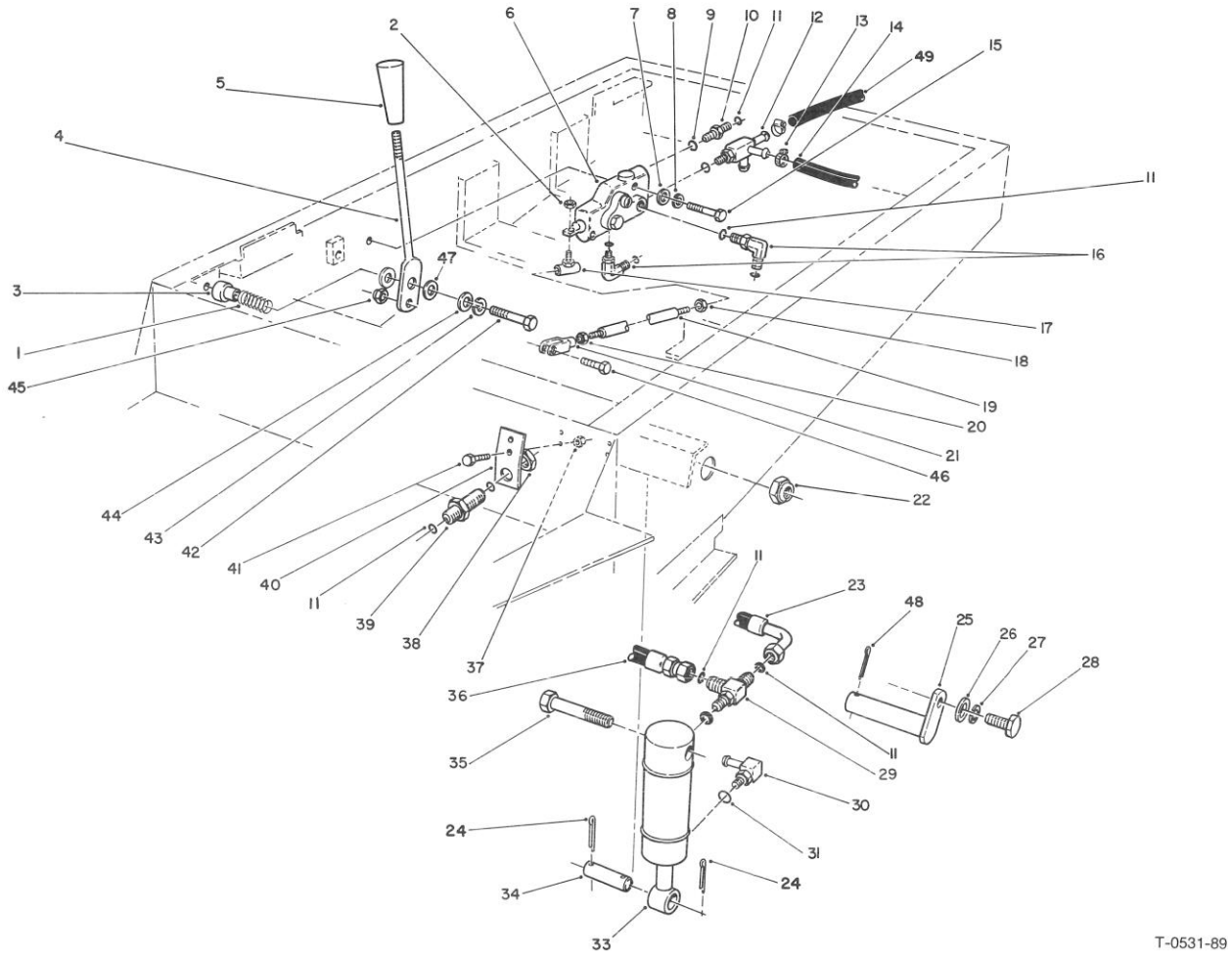
Ref. No.	Part No.	Description	No. Used
23	251-253	Bearing — PTO Shaft (Incl. Ref. #21 & 22)	1
24	3296-39	Locknut	3
25	3296-29	Nut — Lock	11
26	63-6530	Bracket — PTO Bearing	1
27	323-10	Screw — Cap Hex Hd.	2
28	54-9090	Yoke — End	1
29	54-9170	Tube — Slip Yoke	1
30	302-58	Zerk	1
31	54-9050	Shaft — Slip Yoke	1
32	54-9040	Yoke — End	1
33	32151-34	Pin — Roll	1
34	322-9	Screw — Cap Hex Hd.	5
35	54-9180	Kit — Universal Joint	2
36	3-6657	Clip — Cable	1
37	322-3	Screw — Cap Hex Hd.	6
38	3253-4	Washer — Lock	5
39	322-5	Screw — Cap Hex Hd.	8
40	63-8310	Valve — Drain	1
41	323-11	Screw — Cap Hex Hd.	3
42	63-7400	Washer — Rebound	4
43	63-7140	Mount — Shock (Blue)	3
44	353-783	Fitting — Straight	1



POWER TAKE OFF BATTERY & ENGINE MOUNT (Continued)

Ref. No.	Part No.	Description	No. Used
45	63-8290	Vent — Air	1
46	3255-8	Lockwasher — External Tooth	1
47	67-5150	Nut — Hex	1
48	67-5140	Lockwasher — Internal Tooth	1
49	67-5130	Washer — Flat	1
50	67-5110	Screw — Special	1
51	67-5100	Sleeve — Connector	1
52	67-5120	Washer — Spring	1
53	66-2920	Washer — Friction	2
54	233-39	Knob	1
55	71-3500	Lever — Throttle	1
56	3256-22	Washer — Flat	1
57	66-2670	Bracket — Throttle	1
59	66-3080	Cable — Throttle	1
60	67-7210	Clamp — R	2

Ref. No.	Part No.	Description	No. Used
61	322-4	Screw — Cap Hex Hd.	3
62	43-4031	Cable — Battery Pos.	1
63	28-1280	Boot — Pos. Cable	1
64	67-1640	Plate — Bushing Support	1
65	32149-1	Locknut	1
66	251-326	Bearing Flange	2
67	3230-2	Carriage Bolt	2
68	67-1630	Spacer — PTO	2
69	63-9750	Mount	2
70	63-8410	Washer Flat	2
72	32128-25	Nut — Flange	4
73	2412-104	R-Clamp	1
74	321-2	Screw — Hex. Hd.	1
75	3240-378	Cable Tie	1

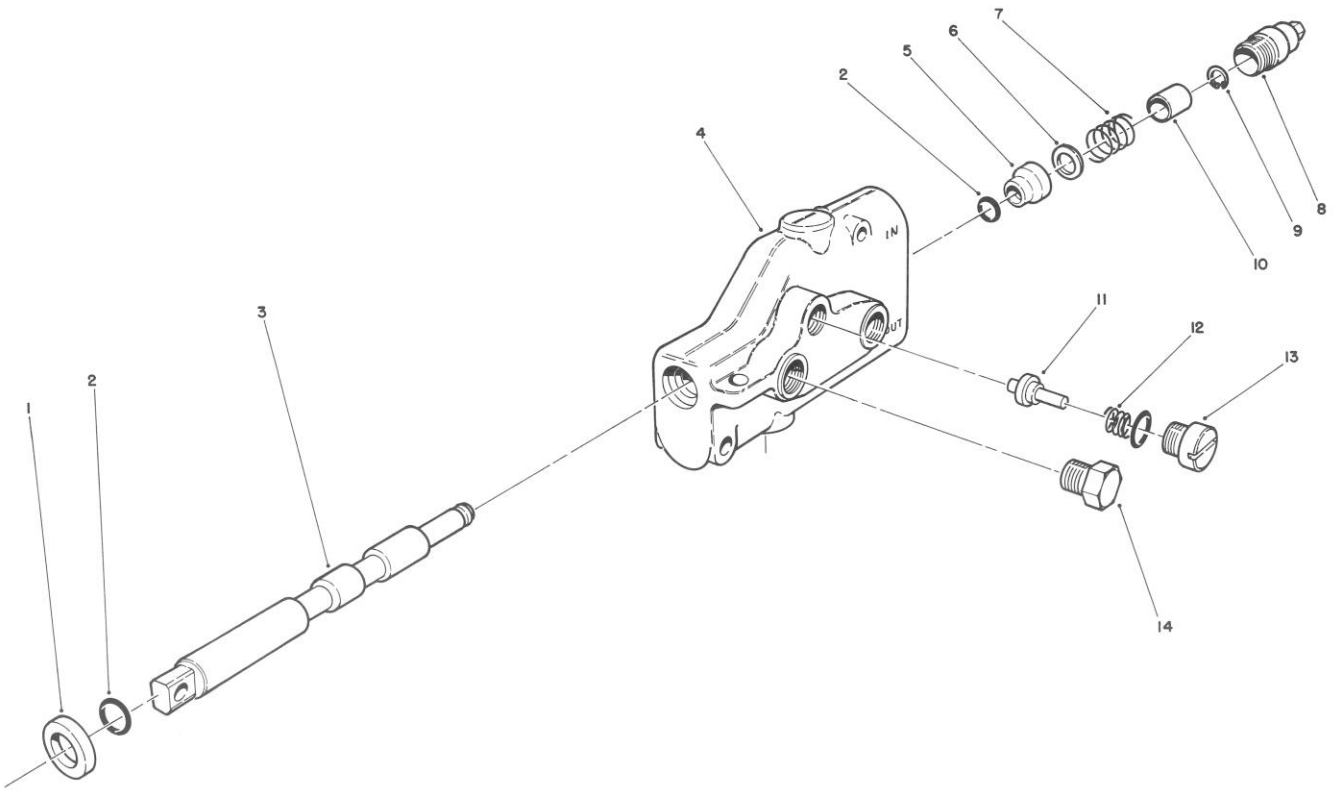


HYDRAULIC LIFT SYSTEM ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	70-7530	Spring — Compression	1
2	3296-27	Nut — Lock	1
3	66-2660	Spacer — Lever	1
4	66-2720	Lever — Lift	1
5	233-39	Knob	1
6	63-7960	Valve — Lift	1
7	3256-22	Washer — Flat	2
8	3253-3	Washer — Lock	2
9	237-65	Seal — O-Ring	5
10	340-2	Fitting — Straight (Incl. Ref. #9 & 11)	1
11	237-22	Seal — O-Ring	7
12	66-3130	Fitting — Tee (Incl. Ref. #9)	1
13	2412-36	Clamp — Hose	2
14	66-8150	Hose — Hydraulic	1
15	321-11	Screw — Cap Hex Hd.	2
16	340-77	Fitting — 90° Elbow (Incl. Ref. #9 & 11)	2
17	2411-37	Joint — Ball L.H.	1
18	3220-21	Nut — Jam L.H.	1
19	66-2680	Rod — Tie	1
20	3220-13	Nut — Jam R.H.	1
21	282-26	Clevis	1
22	3296-51	nut — Lock	2
23	66-8190	Hydraulic Hose Assembly	1
24	3272-23	Pin — Cotter	4
25	27-4310	Pin — Pivot	2
26	3256-22	Washer — Flat	2
27	3253-3	Washer — Lock	2

Ref. No.	Part No.	Description	No. Used
28	321-2	Screw — Cap Hex. Hd.	2
29	340-86	Fitting — Tee (Incl. Ref. #9 & 11) (Used on Cap End of Left Cylinder)	1
*	340-77	Fitting — 90° Elbow (Incl. Ref. #9 & 11) (Used on Cap End of Right Cylinder)	1
30	304-99	Fitting — 90° Elbow (Incl. Ref. #31)	2
31	237-22	Seal — O-Ring	2
33	63-6630	Cylinder — Lift	2
34	27-4240	Pin — Cylinder	2
35	328-20	Screw — Cap Hex Hd.	2
36	66-8640	Hydraulic Hose Assembly	1
37	3296-42	Nut — Lock	2
38	340-70	Nut — Fitting	1
39	340-71	Fitting — Bulkhead (Incl. Ref. #11 & 38)	1
40	63-7410	Bracket — Bulkhead	1
41	321-4	Screw — Cap Hex Hd.	1
42	322-9	Screw — Cap Hex Hd.	1
43	3253-4	Washer — Lock	1
44	3256-23	Washer — Flat	1
45	3296-12	Nut — Lock	1
46	3290-126	Screw Cap Hex Hd.	1
47	3256-26	Flatwasher	2
48	3272-17	Pin Cotter	2
49	66-8500	Hose	1

*Not Illustrated



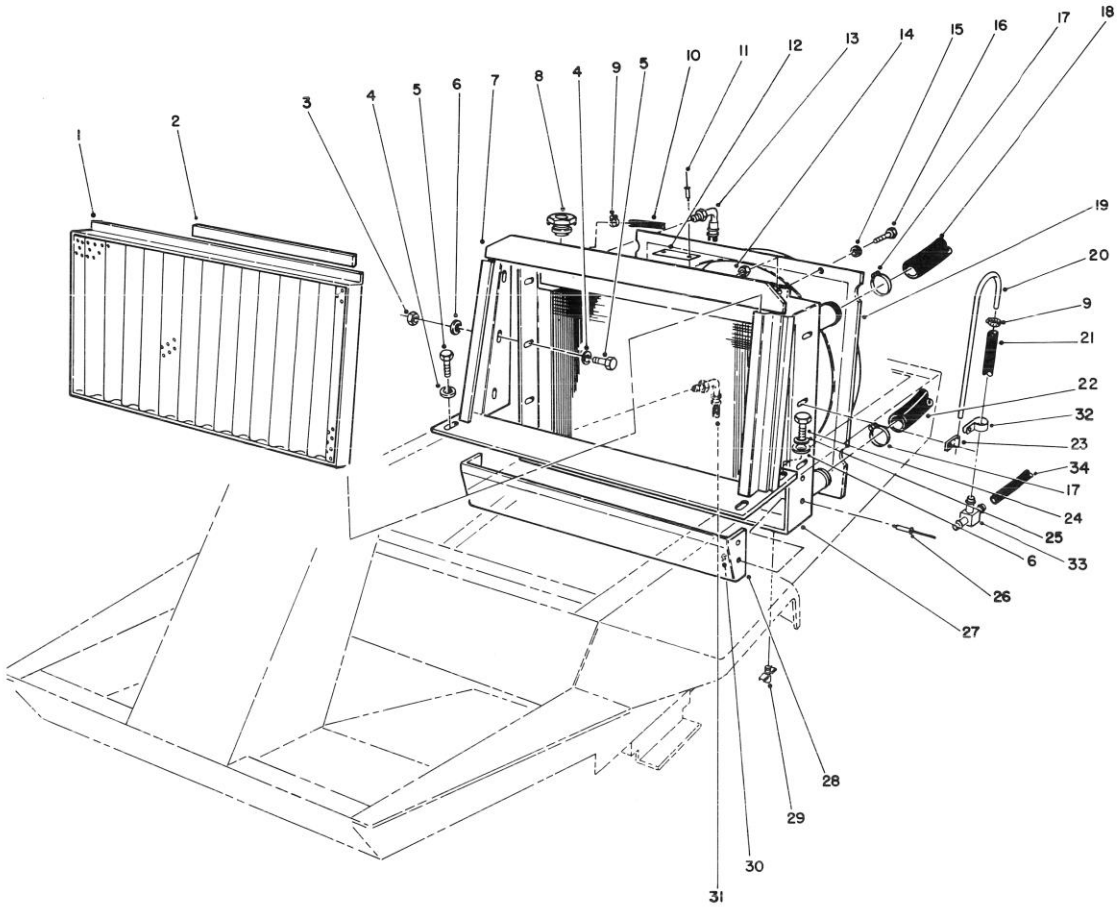
T-0532-89

LIFT VALVE ASSEMBLY NO. 63-7960

Ref. No.	Part No.	Description	No. Used
1	58-6320	Wiper Seal	1
2	58-6450	O-Ring	2
3		Spool	1
4		Body	1
5	58-6400	Bushing	1
6	65-2770	Washer	1
7	65-2950	Spring	1
8	58-6420	Cap Assembly	1

Ref. No.	Part No.	Description	No. Used
9	58-6460	Retaining Ring	1
10	65-2740	Spacer	1
11	65-2750	Plunger	1
12	65-2760	Spring	1
13	65-2930	Plug Assembly	1
14	58-6710	Plug Assembly	1
*	63-7960	Lift Valve Assembly (Incl. Ref. #3 & 4)	1

*Not Illustrated

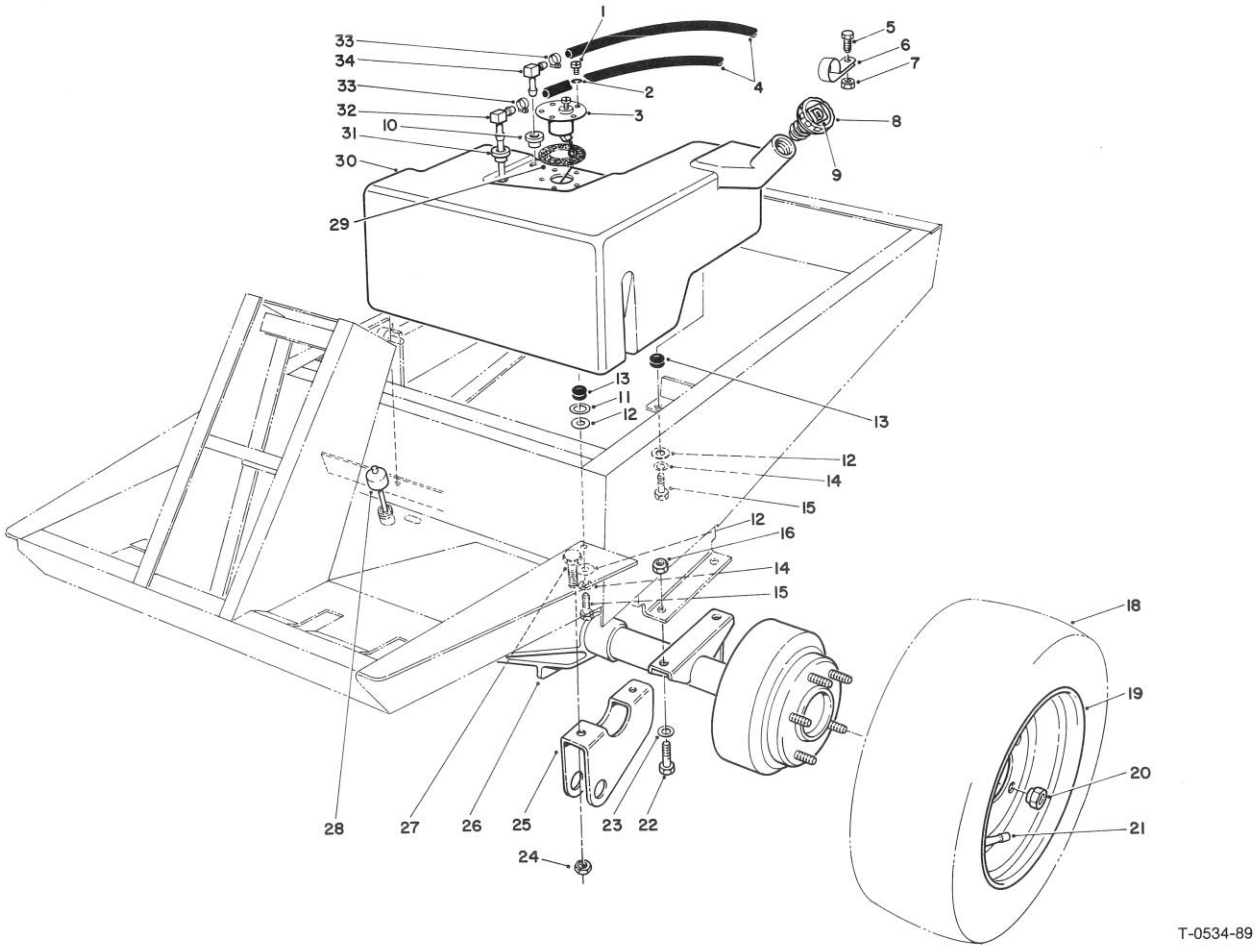


T-0533-89

RADIATOR ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	63-7700	Screen Frame Assembly	1
2	63-7710	Magnetic Strip	1
3	3296-29	Nut — Hex	6
4	3256-70	Washer, Flat	2
5	322-45	Screw — Hex	2
6	3256-23	Washer, Flat	10
7	63-6450	Radiator Support Assembly	1
8	66-3240	Cap — Radiator	1
9	2412-36	Clamp, Hose	4
10	71-3384	Hose	1
11	3290-271	Rivet	2
12	67-1650	Plate — Warning	1
13	66-8180	Hose Assembly	1
14	3296-42	Nut	4
15	3256-22	Washer, Flat	4
16	321-4	Capscrew	4
17	2412-3	Clamp, Hose	4

Ref. No.	Part No.	Description	No. Used
18	63-6010	Hose, Upper	1
19	63-6510	Shroud — Fan	1
20	66-3180	Tube	1
21	66-3170	Hose	1
22	63-6020	Hose, Lower	1
23	2412-103	R-Clamp	2
24	322-3	Capscrew	8
25	3253-4	Washer — Lock	2
26	3290-55	Pop — Rivet	7
27	63-6150	Radiator Assemby	1
28	63-6440	Shield — Radiator	1
29	304-46	Drain Cock	1
30	3256-13	Washer — Flat	7
31	66-8500	Hose Assembly	1
32	2210-185	R-Clamp	4
33	353-981	Fitting — Hyd. Tee	1
34	63-7600	Hose — Fuel	1

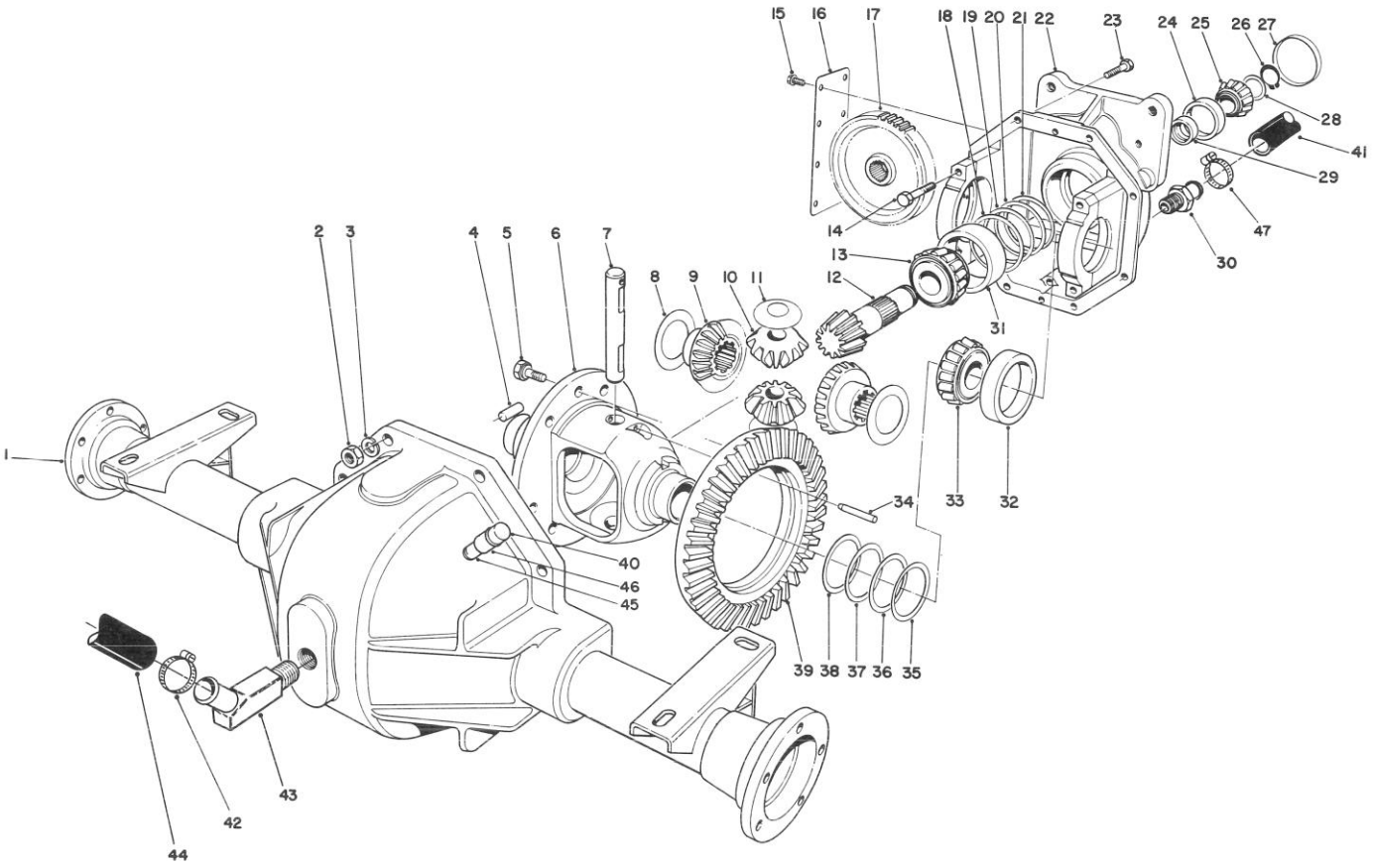


T-0534-89

FUEL TANK AND AXLE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	32122-24	Screw — Machine	5
2	3253-15	Washer — Lock	5
3	63-7640	Sender — Fuel	1
4	63-7630	Hose	2
5	322-5	Hex Hd. Capscrew	1
6	2412-96	R-Clamp	1
7	32128-25	Locknut	1
8	63-8220	Cap — Gas	1
9	63-4490	Decal — Fuel Cap	1
10	46-6560	Bushing	2
11	3256-26	Washer — Flat	2
12	3256-67	Washer — Flat	3
13	237-136	Grommet	3
14	3253-3	Washer — Lock	3
15	321-5	Screw — Hex Hd.	3
16	3296-48	Nut — Hex	4
18	231-101	Tire	2

Ref. No.	Part No.	Description	No. Used
19	217-117	Rim	2
20	23-7270	Nut — Lug	10
21	232-31	Valve Stem w/Cap	2
22	324-5	Screw — Hex Hd.	4
23	3256-25	Washer — Flat	4
24	3296-41	Nut — Hex	4
25	67-1830	Carrier Bracket	2
26	70-2740	Axle Assembly	1
27	3214-5	Screw — Hex	4
28	66-3060	Dipstick — Differential	1
29	62-7650	Gasket	1
30	63-7370	Tank — Fuel	1
31	46-6560	Bushing	2
32	66-8120	Standpipe	1
33	2412-36	Clamp	12
34	46-6550	Connector 90°	1



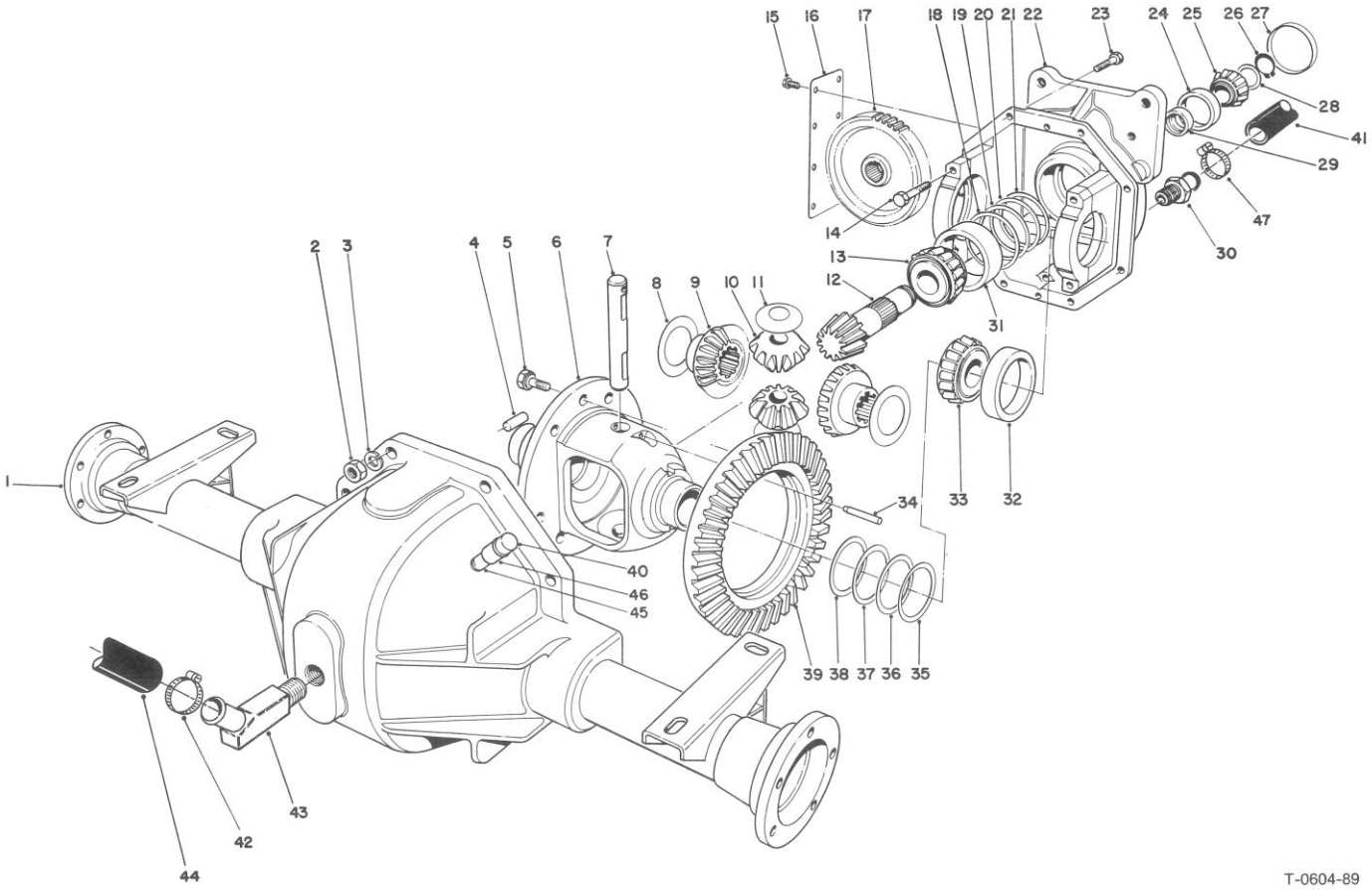
T-0604-89

DIFFERENTIAL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	63-8090	Lower Housing Assembly	1
2	3219-2	Nut	8
3	3255-8	Lockwasher	8
4	21-8270	Dowel Pin	2
5	21-7770	Drive Gear Screw	5
6	21-7670	Differential Case	1
7	21-7700	Pinion Mate Shaft	1
8	21-7720	Thrust Washer	2
9	24-8790	Differential Bevel Side Gear	2
10	21-7690	Pinion Gear	2
11	21-7730	Thrust Washer	2
12		Drive Pinion	1
13	43-6760	Tapered Roller Bearing Cone	1
14	324-23	Capscrew	4
15	12-5450	Thread Forming Screw	8
16	21-7830	Gear Cover	1
17	21-8150	Spur Gear	1
18	43-6710	Shim Adjusting Differential Bearing .003	A/R
19	43-6711	Shim Adjusting Differential Bearing .005	A/R
20	43-6712	Shim Adjusting Differential Bearing .010	A/R

Ref. No.	Part No.	Description	No. Used
21	43-6713	Shim Adjusting Differential Bearing .030	A/R
22	70-2760	Upper Housing Assembly (Incl. Ref. #14)	1
23	3210-7	Capscrew	8
24	254-90	Bearing Cup	1
25	254-91	Bearing Cone	1
26	43-6550	Retaining Ring	1
27	21-7850	Cap Plug	1
28	46-2210	Shim Front Pinion Bearing (.031)	A/R
*	46-2211	Shim Front Pinion Bearing (.033)	A/R
*	46-2212	Shim Front Pinion Bearing (.035)	A/R
*	46-2213	Shim Front Pinion Bearing (.037)	A/R
*	46-2214	Shim Front Pinion Bearing (.039)	A/R
*	46-2215	Shim Front Pinion Bearing (.041)	A/R
*	46-2216	Shim Front Pinion Bearing (.043)	A/R

*Not Illustrated



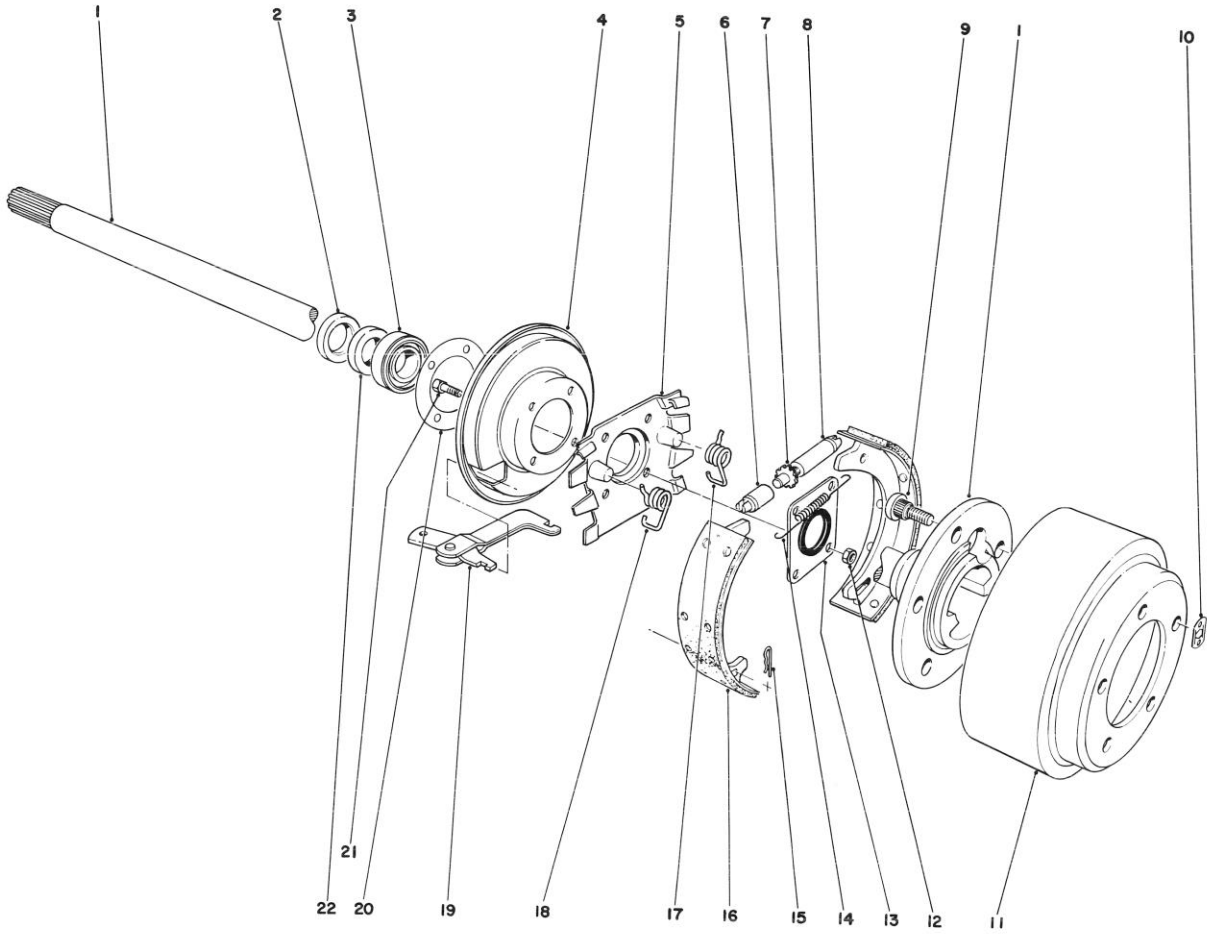
T-0604-89

DIFFERENTIAL ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
*	46-2220	Shim Front Pinion Bearing (.045)	A/R
*	46-2221	Shim Front Pinion Bearing (.047)	A/R
*	46-2222	Shim Front Pinion Bearing (.049)	A/R
*	46-2223	Shim Front Pinion Bearing (.051)	A/R
*	46-2224	Shim Front Pinion Bearing (.053)	A/R
*	46-2225	Shim Front Pinion Bearing (.055)	A/R
*	46-2226	Shim Front Pinion Bearing (.057)	A/R
29	21-8020	Front Pinion Bearing Spacer	1
30	354-18	Fitting — Straight	1
31	43-6750	Tapered Roller Bearing Cup	1
32	254-66	Cup — Tapered Bearing	2

Ref. No.	Part No.	Description	No. Used
33	254-65	Cone — Tapered Bearing	2
34	32121-15	Roll Pin	1
35	21-8090	Differential Adjust. Shim. .003	A/R
36	21-8100	Differential Adjust. Shim. .005	A/R
37	21-8110	Differential Adjust. Shim. .010	A/R
38	21-8120	Differential Adjust. Shim. .030	A/R
39		Ring Gear	1
40	21-8230	Vent Assembly	1
41	66-8130	Hose — Hydraulic	1
42	2412-34	Clamp — Hose	2
43	66-8740	Pipe Nipple	1
44	66-3140	Tube — Fill	1
*	43-6510	Gear & Pinion Assembly (Incl. Ref. #12 & 39)	1
45	289-6	Pipe Nipple	1
46	2810-1	Coupler	1
47	2412-36	Clamp — Hose	2

*Not Illustrated



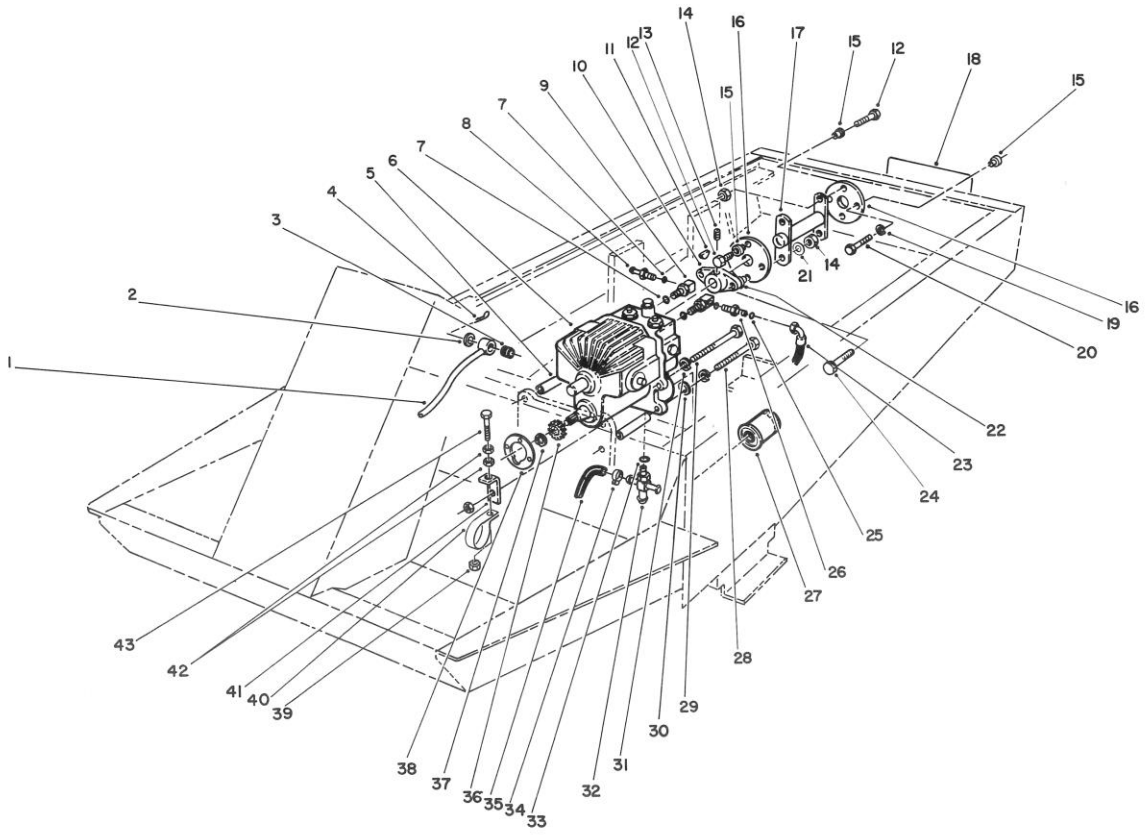
T-0535-89

BRAKE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	27-6861	Axle Shaft Flanged L.H.	1
*	27-6851	Axle Shaft Flanged R.H.	1
2	21-8330	Oil Seal	2
3	21-8180	Bearing — Tapered Roller	2
4	21-9450	Dust Shield	2
5	43-6810	Torque Spider	2
6	21-9390	Socket — Adjusting Screw	2
7	21-9370	Adjusting Screw	2
8	21-9380	Pivot Nut	2
9	242-34	Axle Flange Stud	10
10	21-8360	Clip Retaining	2
11	28-0680	Brake Drum	2

Ref. No.	Part No.	Description	No. Used
12	43-6800	Locknut — Flange Hd.	8
13	28-0670	Oil Seal	2
14	21-9440	Spring — Adjusting Screw	2
15	21-9460	Retainer — Parking Brake Lever	4
16	43-2690	Shoe & Lining Ass'y.	4
17	21-9420	Spring — Shoe Return L.H.	2
18	21-9430	Spring — Shoe Return R.H.	2
19	24-9180	Strut & Lever Parking Brake	2
20	21-8320	Gasket Wheel Bearing	2
21	28-0660	Capscrew	8
22	24-8840	Ring Wheel Bearing	2

*Not Illustrated

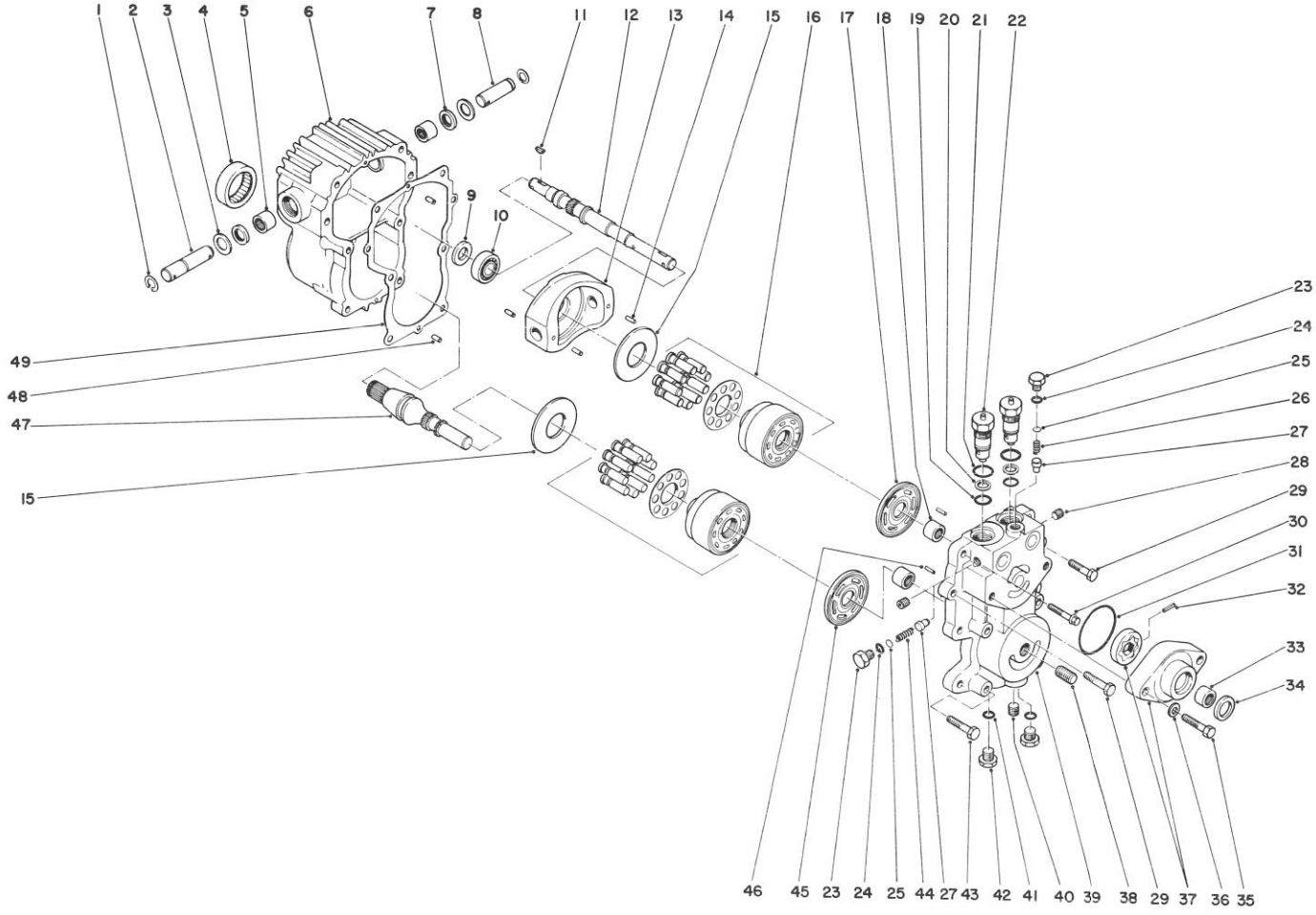


T-0605-89

TRANSMISSION & DRIVE COUPLING ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	63-6410	Tube — Traction Control	1
2	3256-26	Washer — Flat	1
3	23-2270	Bushing — Rubber	1
4	3272-10	Pin — Cotter	1
5	27-3680	Spacer — Mounting	4
6	49-7910	Transmission	1
7	237-65	O-Ring	4
8	353-979	Hose Barb	1
9	66-3110	Hyd. Fitting	2
10	27-4370	Pump Hub	1
11	3257-5	Woodruff Key	1
12	3210-5	Hex Hd. Capscrew	4
13	3241-5	Set Screw	2
14	32152-5	Nut — Lock	6
15	27-6600	Spacer — Rubber	6
16	44-2230	Coupling — Rubber	2
17	63-6610	Drive Shaft	1
18	62-7400	Decal — Toro	1
19	42-9850	Lockwasher	2
20	66-3160	Capscrew	2
21	3256-71	Flat Washer	2
22	27-6590	Spacer	2

Ref. No.	Part No.	Description	No. Used
23	66-8490	Hose Assembly	1
24	3210-8	Capscrew	2
25	237-30	O-Ring	1
26	340-2	Fitting	1
27	23-2300	Oil Filter	1
28	323-39	Capscrew	3
29	27-9620	Capscrew	1
30	3256-24	Washer Flat	2
31	3253-21	Lockwasher	4
32	66-3120	Hyd. Fitting — Cross	1
33	237-80	O-Ring	1
34	2412-36	Hose Clamp	4
35	60-8160	Hose	2
36	23-4810	Spur Gear	1
37	32120-72	Snap Ring	1
38	27-3690	Gasket — Transmission	1
39	3296-39	Nut — Lock	2
40	67-7210	R-Clamp	1
41	63-7170	Anchor — Transmission	1
42	3218-3	Nut — Jam	2
43	67-1900	Capscrew	1

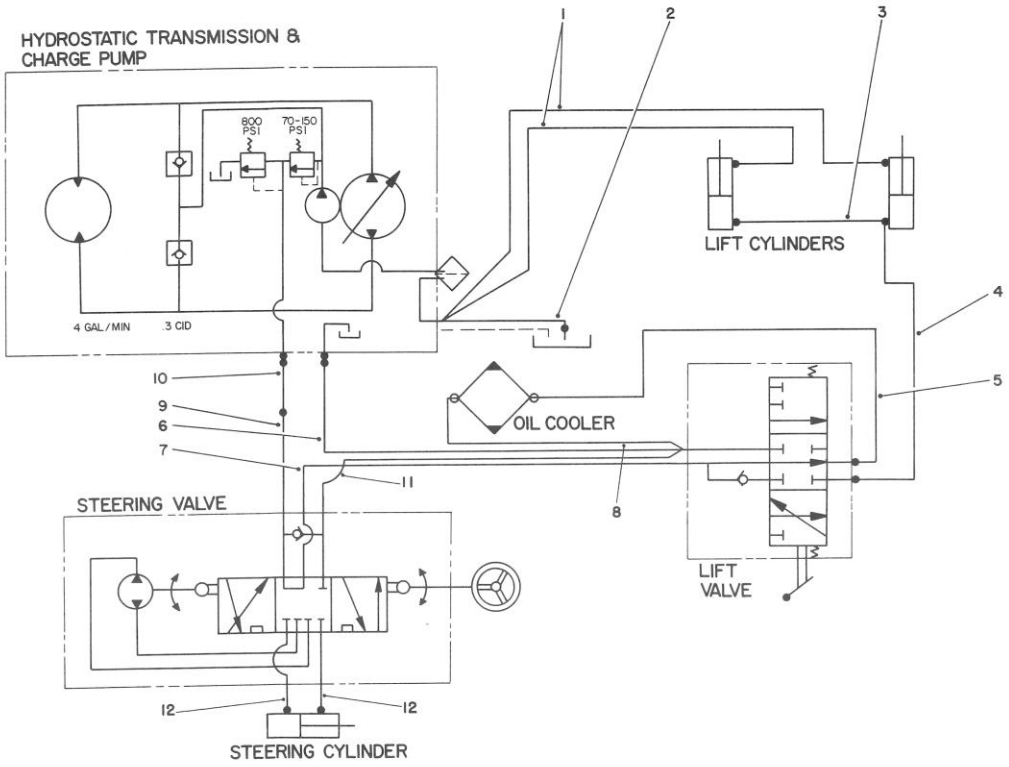


T-0536-89

TRANSMISSION ASSEMBLY 49-7910

Ref. No.	Part No.	Description	No. Used
1	32151-46	Retaining Ring	2
2	25-2500	Trunnion Shaft	1
3	25-2510	Washer	2
4	28-3300	Roller Bearing	1
5	28-3310	Needle Bearing	2
6	49-7870	Housing	1
7	25-3210	Lip Seal	2
8	28-3670	Trunnion Shaft	1
9	28-3660	Lip Seal	1
10	28-3650	Ball Bearing	1
11	3257-5	Woodruff Key	2
12	28-3640	Pump Shaft	1
13	49-7820	Variable Swashplate	1
14	32121-91	Pin	3
15	25-2380	Thrust Plate	2
16	48-1800	Cylinder Block Kit	2
17	46-7320	Pump Valve Plate	1
18	25-3300	Needle Bearing	2
19	28-3590	"O" Ring	2
20	28-3580	Back Up Ring	2
21	28-3570	"O" Ring	2
22	49-7830	Check Valve Assembly (Incl. Ref. #19-21)	2
23	25-2460	Hex Hd. Plug	2
24	28-3400	"O" Ring	2
25	25-2470	Shim Pack	A/R

Ref. No.	Part No.	Description	No. Used
26	46-7310	Relief Valve Spring Imp.	1
27	28-3420	Relief Valve Cone Chg.	2
28	285-17	Pipe Plug	4
29	323-8	Capscrew	2
30	28-3530	Capscrew	2
31	28-3520	"O" Ring	1
32	38-2680	Pin	1
33	28-3480	Needle Bearing	1
34	28-3470	Lip Seal	1
35	324-23	Hex Hd. Capscrew	2
36	28-3450	Flat Washer	2
37	38-2670	Charge Pump Kit (Incl. Ref. #31-34)	1
38	25-2660	Filter Union	1
39	49-7850	Center Section	1
40	46-7280	Plug — Pipe	1
41		"O" Ring	2
42	28-3440	Threaded Plug (Incl. Ref. #41)	2
43	323-10	Capscrew	4
44	25-2480	Relief Valve Spring Chg.	1
45	28-3380	Motor Valve Plate	1
46	25-2430	Pin	2
47	49-8200	Motor Shaft	1
48	28-3350	Pin	2
49	28-3340	Gasket	1

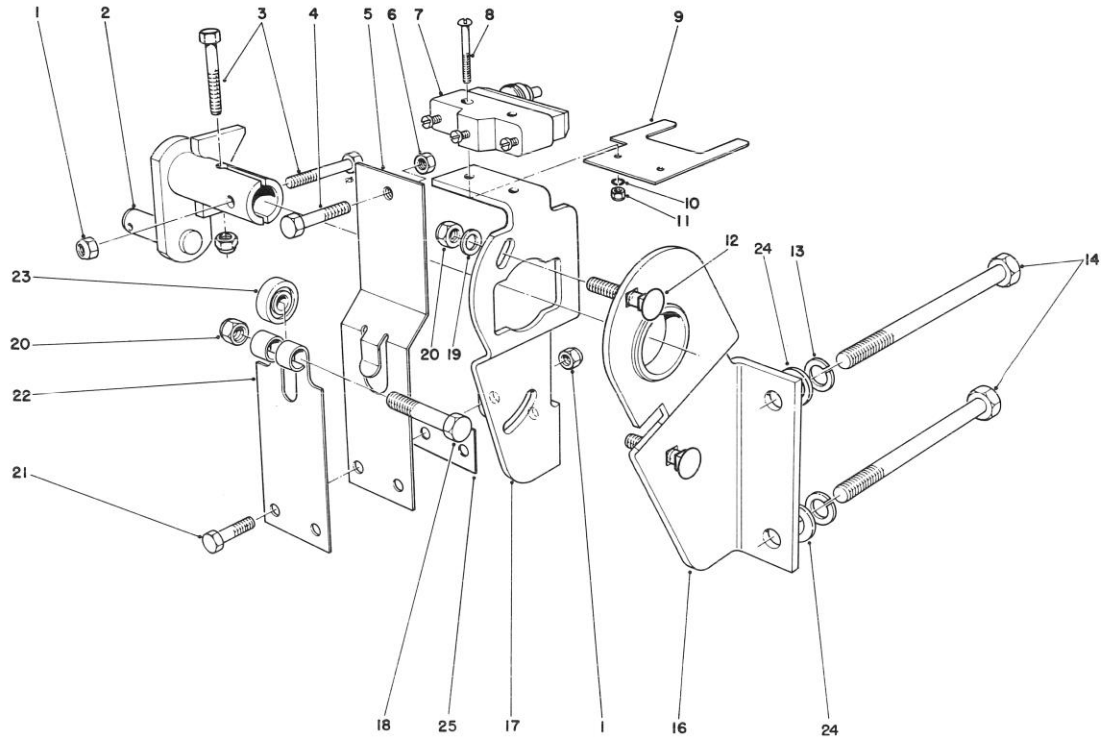


T-0537-89

HYDRAULIC SCHEMATIC

Ref. No.	Part No.	Description	No. Used
1	66-8160	Hose	2
2	66-8130	Hose	1
3	66-8190	Hose	1
4	66-8640	Hose	1
5	66-8180	Hose	1
6	66-8150	Hose	1

Ref. No.	Part No.	Description	No. Used
7	66-8630	Tube	1
8	66-8500	Hose	1
9	66-8620	Tube	1
10	66-8490	Hose	1
11	66-8140	Hose	1
12	66-8170	Hose	2

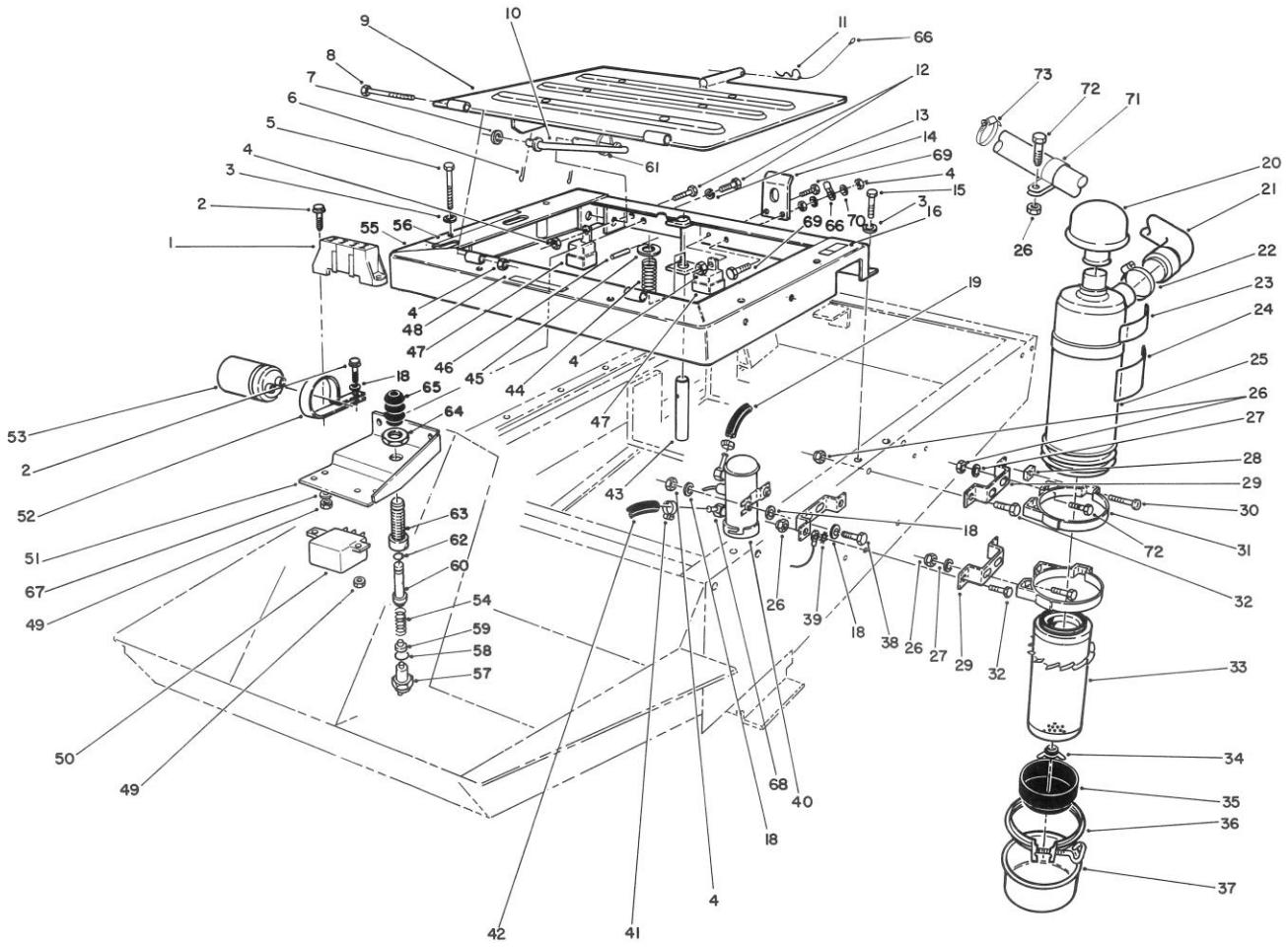


T-0538-89

TRANSMISSION INTERLOCK ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3296-42	Nut — Lock	4
2	29-9790	Pump Lever	1
3	321-9	Capscrew	2
4	3210-7	Screw — Cap Hex Hd.	1
5	29-6170	Extended Leaf Spring	1
6	3219-2	Nut Hex	1
7	29-6160	Micro Switch	1
8	3249-11	Screw — Machine, Round Head	2
9	46-8810	Stop — Leaf Spring	1
10	3254-9	Washer — Lock Internal Tooth	2
11	3217-16	Nut — Hex	2
12	3230-2	Carriage — Bolt	2

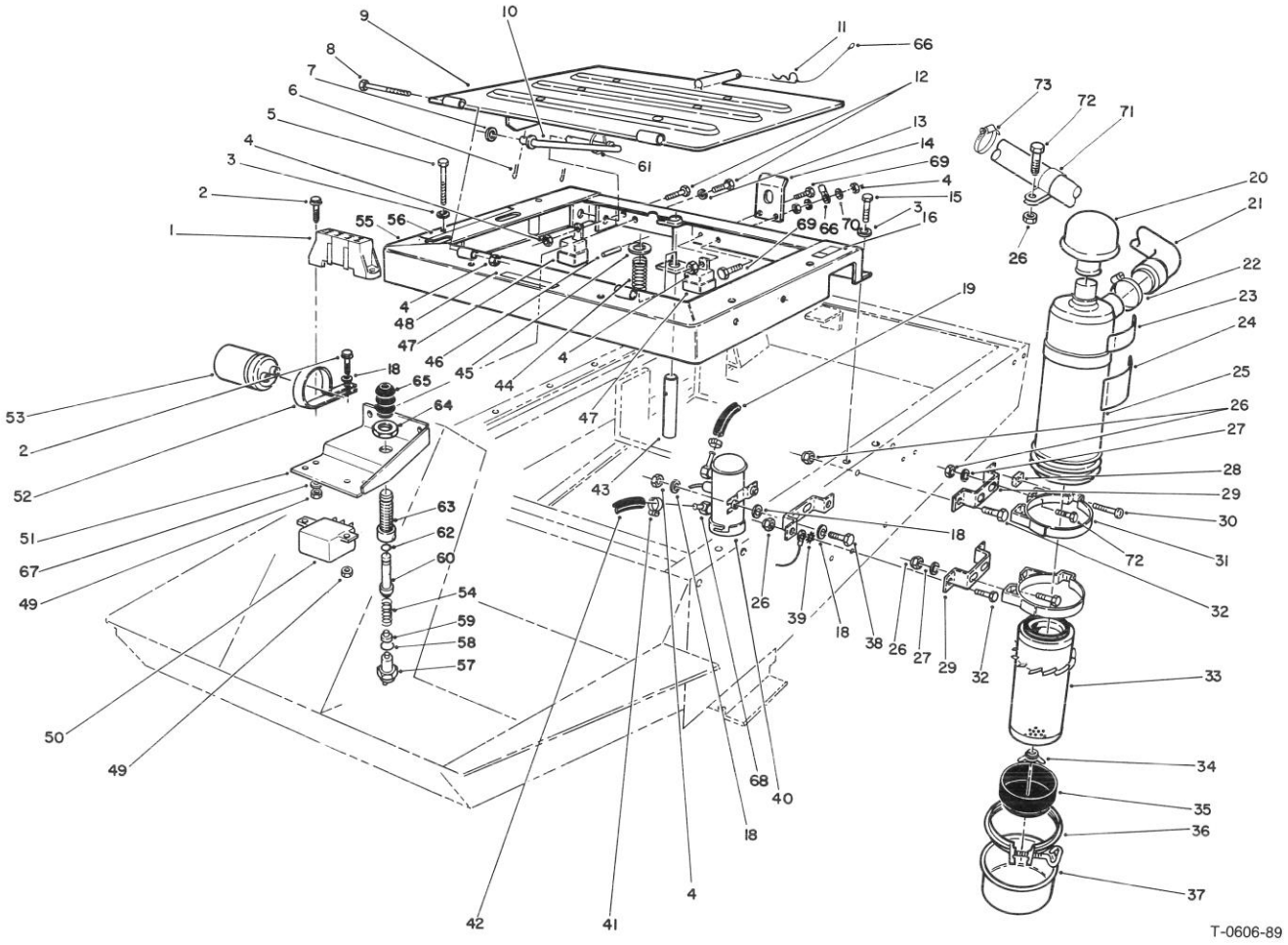
Ref. No.	Part No.	Description	No. Used
13	3253-21	Washer — Lock	2
14	323-39	Screw — Cap Hex. Hd.	2
16	52-8890	Mounting Bracket	2
17	52-9070	Pump Plate	1
18	322-17	Screw — Cap Hex. Hd.	1
19	3256-23	Washer	2
20	3296-29	Nut — Lock	3
21	321-4	Screw — Cap Hex. Hd.	2
22	29-6150	Leaf Spring	1
23	251-259	Ball Bearing	1
24	3256-24	Washer Flat	4
25	51-3150	Shim	1



SEAT FRAME & AIR CLEANER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	67-7160	Fuse Block	1
2	3290-126	Capscrew	4
3	3256-70	Washer — Flat	8
4	3296-42	Nut	9
5	322-33	Capscrew	6
6	3272-11	Cotter Pin	2
7	3256-24	Washer, Flat	1
8	321-15	Capscrew	2
9	63-7080	Plate Seat	1
10	66-2800	Rod — Seat Support	1
11	3290-255	Hair Pin, Cotter	1
12	321-4	Capscrew	3
13	3253-3	Lockwasher	2
14	66-2630	Latch — Seat	1
15	322-45	Capscrew	2
16	52-1320	Decal — Diesel Fuel Only	1
18	3256-22	Washer — Flat	7
19	63-7620	Hose	1
20	27-7180	Cap Assembly	1
21	63-6040	Hose — Air Cleaner Inlet	1
22	2412-42	Hose Clamp	1
23	67-1700	Decal — Starting Fluid	1
24	27-7160	Decal — Instructions	1

Ref. No.	Part No.	Description	No. Used
25	27-7100	Air Cleaner Assembly (Incl. Ref. #24 & 32-36)	1
26	3256-29	Nut — Lock	6
27	3256-23	Washer — Flat	4
28	32107-11	Nut — Square	2
29	66-2450	Bracket — Air Cleaner	3
30	3258-19	Capscrew	2
31	27-7170	Mounting Band Assembly (Incl. Ref. #28 & 30)	2
32	322-5	Capscrew	8
33	27-7110	Element Assembly	1
34	27-7120	Nut & Gasket Assembly	1
35	27-7140	Skirt — Baffle	1
36	27-7130	Clamp Assembly	1
37	27-7150	Cup Assembly	1
38	321-8	Capscrew	2
39	3255-8	Lockwasher Ext. Tooth	1
40	53-8150	Fuel Pump	1
41	2412-36	Hose Clamp	4
42	63-7630	Hose	1
43	66-2590	Pin — Seat Spring	1
44	37-9590	Spring — Compression	1

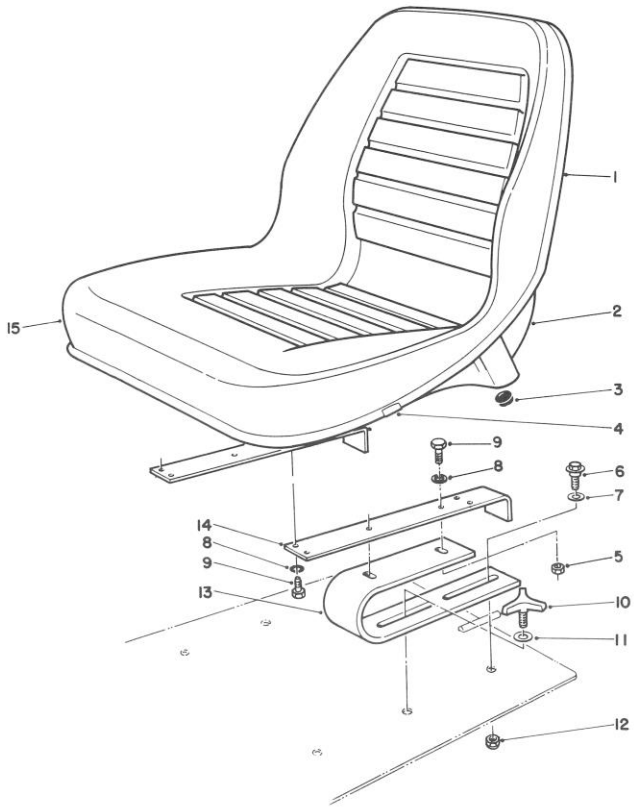


SEAT FRAME & AIR CLEANER ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
45	3256-27	Washer — Flat	1
46	32121-6	Roll Pin	1
47	63-7590	Relay	2
48	67-1710	Decal — Interlock	1
49	3296-12	Nut	4
50	66-8800	Relay	1
51	70-7290	Bracket — Seat Switch	1
52	2412-74	R-Clamp	1
53	37-2690	Capacitor	1
*	43-9071	Switch — Seat (Incl. Ref. #54, 57-60 & 62-65)	1
54	43-8600	Spring — Compression	1
55	63-7290	Frame — Seat	1
56	66-8750	Decal — Control Levers	1
57	72-4320	Switch	1
58	237-30	O-Ring	1

Ref. No.	Part No.	Description	No. Used
59	43-8610	Guide — Spring & Ball Seat	1
60	43-8860	Plunger — Switch	1
61	3290-378	Cable Tie	1
62	237-7	O-Ring	1
63	43-8620	Guide — Switch Pin	1
64	218-461	Jam Nut	1
65	43-8870	Boot — Switch	1
66	28-8070	Lanyard	1
67	3255-5	Washer — Extended Tooth	2
68	67-1690	Fitting	2
69	321-6	Screw — Hex Hd.	1
70	3256-1	Washer — Flat	4
71	2412-107	R-Clamp	1
72	322-3	Hex Hd. Capscrew	2
73	2412-92	Clamp — Hose	1

*Not Illustrated



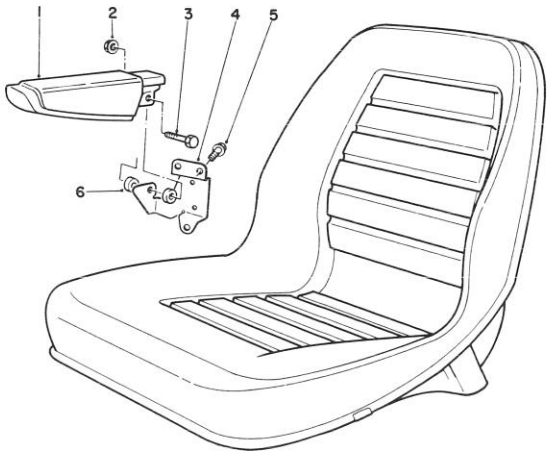
T-0777-89

STANDARD SEAT KIT MODEL NO. 30769

Ref. No.	Part No.	Description	No. Used
1		Edging	1
2	67-9560	Shell — Seat	1
3		Grommet	2
4		Clip	2
5	3217-6	Nut — Hex	4
6	27-5240	Bolt — Shoulder	2
7	3256-26	Washer — Flat	2
8	3253-4	Washer — Lock	8
9	322-5	Screw — Cap Hex. Hd.	8

Ref. No.	Part No.	Description	No. Used
10	27-4570	Handle — Adjustment	2
11	36-8020	Washer	2
12	3296-39	Nut — Lock	2
13	46-9110	Spring — Seat	2
14	46-9120	Mount — Seat	2
15	67-9550	Cushion — Seat	1
*	66-5400	Seat Assembly (Incl. Ref. #1, 2 & 15)	1

*Not Illustrated



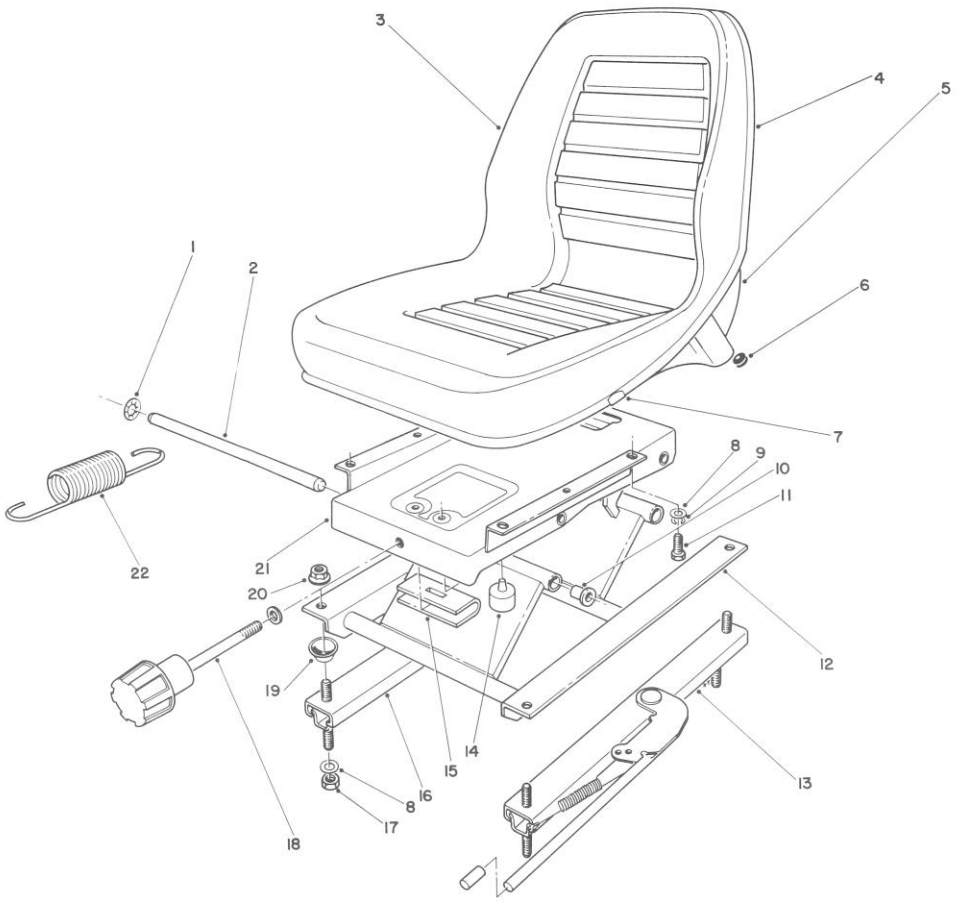
T-0634-89

ARMREST KIT MODEL NO. 30707

Ref. No.	Part No.	Description	No. Used
1	69-1180	Armrest	2
2	32128-19	Flange Locknut	2
3	323-9	Hex Hd. Capscrew	2
4	69-0770	Bracket — R.H. Arm	1

Ref. No.	Part No.	Description	No. Used
*	69-0760	Bracket — L.H. Arm	1
5	3234-14	Hex Flange Capscrew	6
6	69-1260	Spacer	4

*Not Illustrated



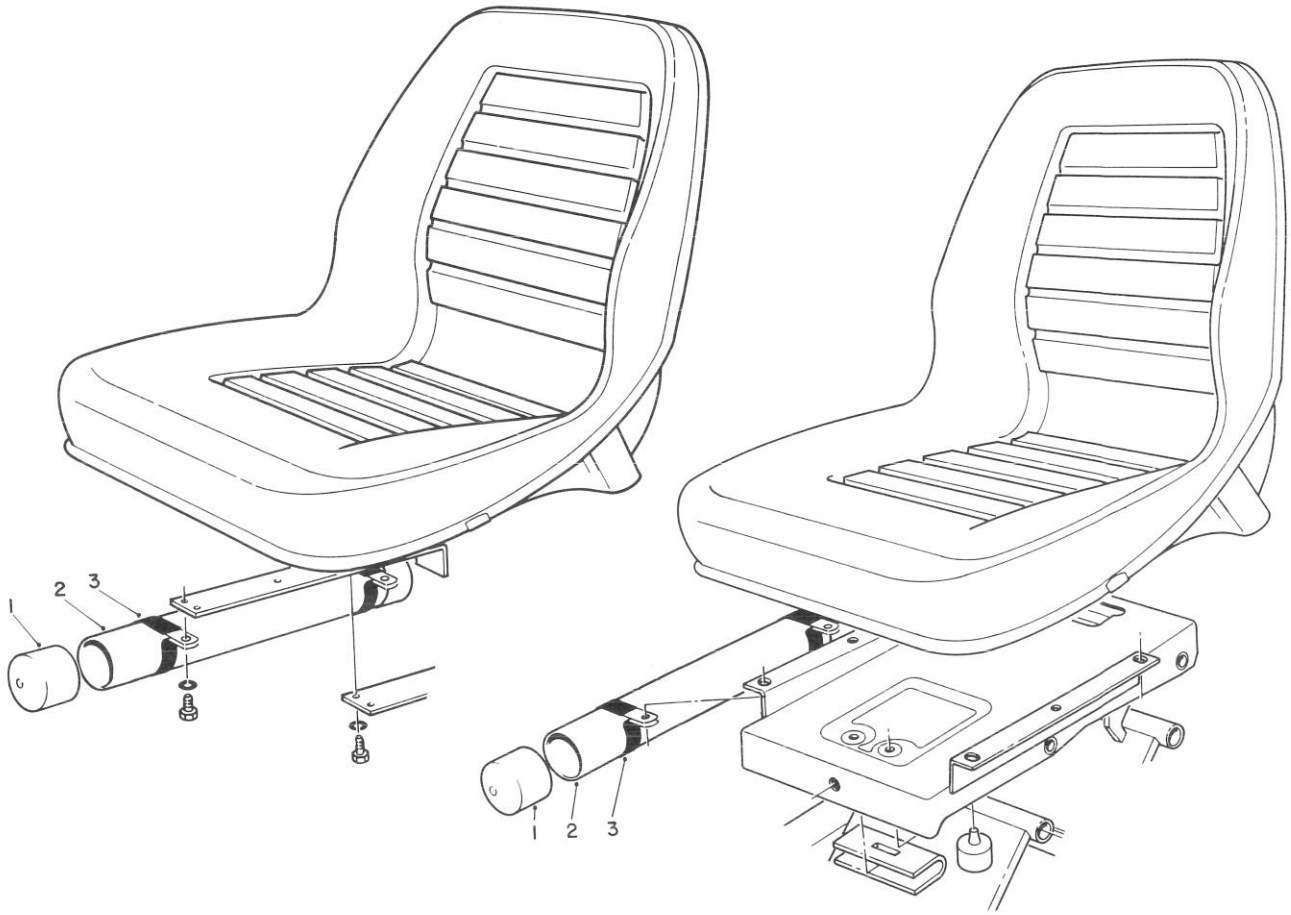
T-0776-89

DELUXE SEAT KIT MODEL NO. 30772

Ref. No.	Part No.	Description	No. Used
1	66-8560	Nut — Push	4
2	66-8550	Shaft — Pivot	2
3	67-9550	Cushion — Seat	1
4		Trim — Seat	1
5	67-9560	Base — Seat	1
6		Grommet	1
7		Cup	1
8	3256-2	Washer — Flat	8
9	3253-4	Lockwasher	4
10	66-8580	Bearing — Flange	4
11	322-3	Hex. Hd. Capscrew	4
12	66-8610	Frame — Lower	1

Ref. No.	Part No.	Description	No. Used
13	66-8510	Adjuster w/Handle	1
14	66-8520	Bumper — Stop	2
15	66-8540	Hanger — Spring	1
16	66-8530	Adjuster	1
17	3296-29	Hex Nut	4
18	66-8590	Knob — Adjustment	1
19	66-9290	Spacer — Suspension	4
20	32128-25	Flange Locknut	4
21	66-8600	Frame — Upper	1
22	66-8570	Spring — Extension	2
*	66-5400	Seat Assembly (Incl. Ref. #3-7)	1

*Not Illustrated

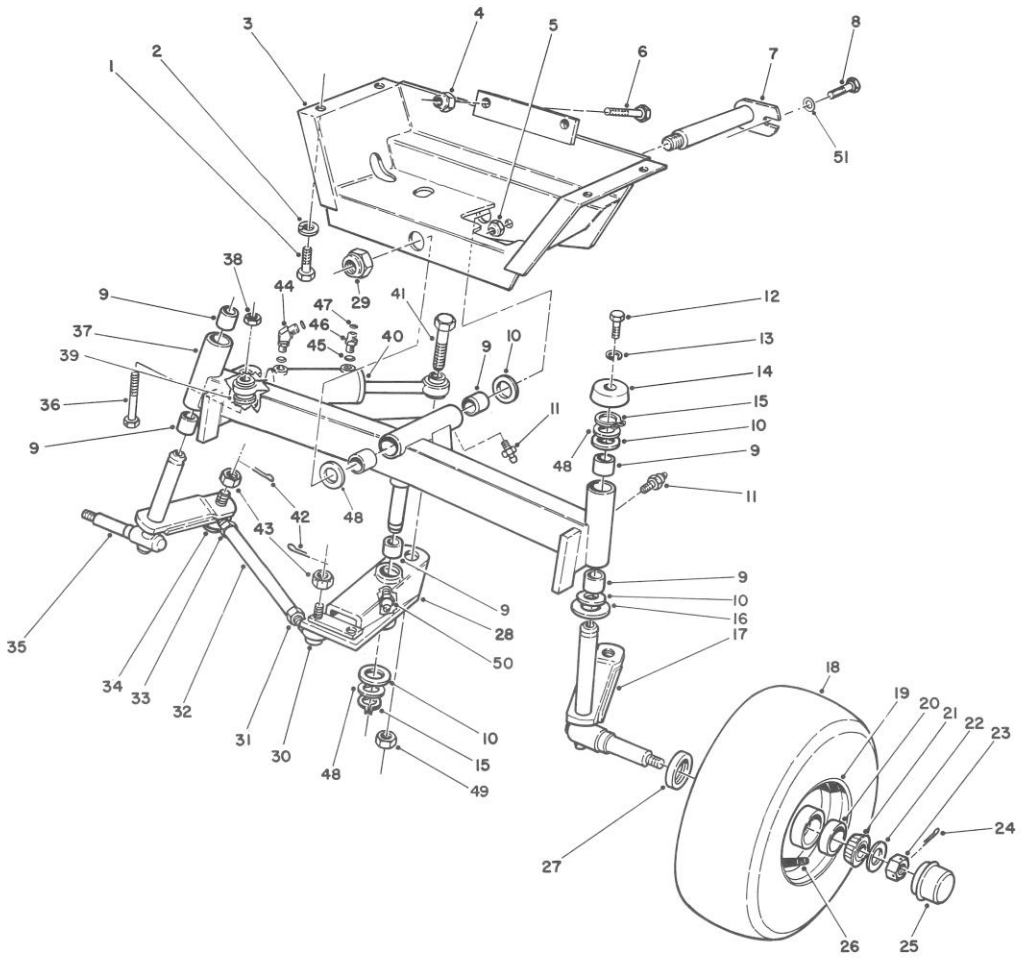


T-0778-89

MANUAL STORAGE

Ref. No.	Part No.	Description	No. Used
1	65-5890	Cap — End	2
2	65-5870	Tube — Manual	1
3	2412-102	R-Clamp	2

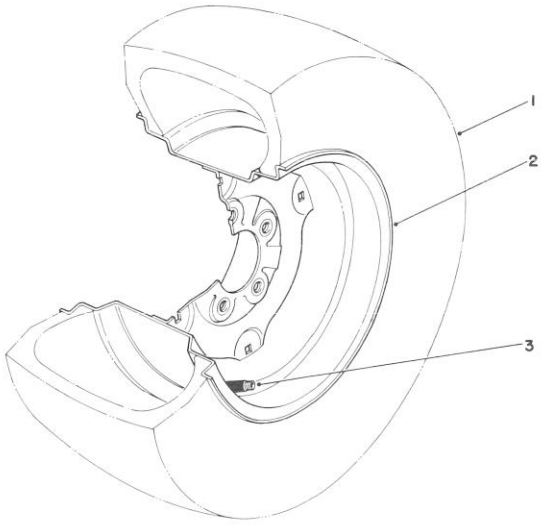
Ref. No.	Part No.	Description	No. Used



REAR AXLE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	323-6	Screw — Cap Hex. Hd.	4
2	3253-5	Washer — Lock	4
3	63-6430	Frame — Rear	1
4	3296-25	Nut — Lock	2
5	3296-42	Nut — Lock	1
6	325-5	Screw — Cap Hex. Hd.	2
7	63-6770	Pin — Rear Axle	1
8	321-4	Screw — Cap Hex. Hd.	1
9	67-1750	Bushing	8
10	10-8110	Washer	6
11	302-5	Fitting — Grease	3
12	321-2	Screw —Cap Hex. Hd.	2
13	3253-3	Washer — Lock	2
14	66-2990	Cap — Spindle	2
15	32151-36	Ring — Retaining	3
16	256-121	Washer — Thrust	2
17	63-6090	Spindle — Wheel L.H.	1
18	231-105	Tire	2
19	217-118	Rim	2
20	254-72	Cup — Bearing	4
21	254-94	Cone — Bearing	4
22	3256-28	Washer — Flat	2
23	32136-5	Nut — Castle	2
24	3272-13	Pin — Cotter	2
25	241-119	Cap — Hub	2
26	232-35	Stem — Valve	2

Ref. No.	Part No.	Description	No. Used
27	253-129	Seal — Hub	2
28	63-6570	Pivot — Steering (Incl. Ref. #9 & 50)	1
29	3296-51	Nut — Lock	1
30	21-0150	Joint — Ball L.H.	2
31	3220-12	Nut — Jam L.H.	2
32	63-6880	Rod — Tie	2
33	3220-5	Nut — Jam R.H.	2
34	21-0140	Joint — Ball R.H.	2
35	63-6100	Spindle — Wheel R.H.	1
36	67-7300	Screw Hex Hd.	1
37	63-6120	Axle — Rear (Inc. Ref. #9 & 11)	1
38	32153-6	Nut — Hex Lock	1
39	67-7250	Spacer Cyl.	1
40	63-6740	Cylinder — Steering	1
41	67-7240	Screw — Cap Hex. Hd.	1
42	3272-6	Pin — Cotter	4
43	32136-4	Nut — Castle	4
44	340-103	Fitting — 45° Elbow (Incl. Ref. #45 & 47)	1
45	237-78	Seal — O-Ring	2
46	340-92	Fitting — Straight	1
47	237-21	Seal — O-Ring	2
48	5-1226	Washer — Flat	A/R
49	3218-7	Nut Hex Jam	1
50	302-62	Fitting — Grease	1
51	3256-22	Washer — Flat	1

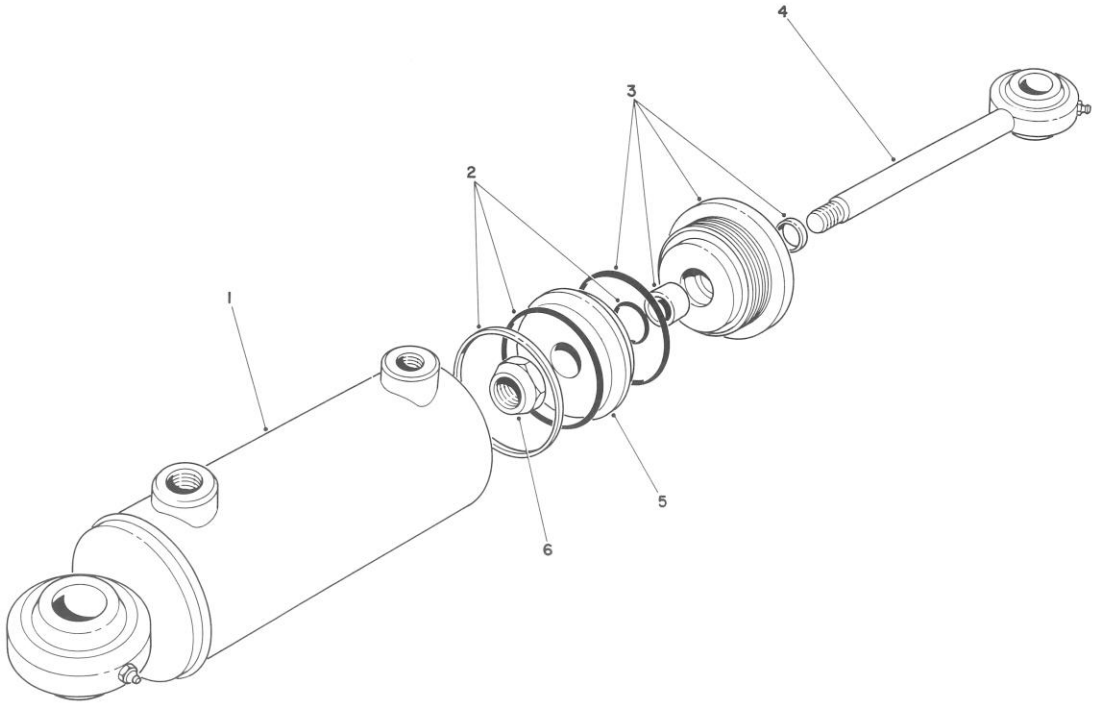


T-0449-89

TIRE & WHEEL ASSEMBLY 23 X 10.50 X 12 (Optional) NO. 62-7020

Ref. No.	Part No.	Description	No. Used
1	231-95	Tire	1
2	217-116	Rim	1

Ref. No.	Part No.	Description	No. Used
3	232-27	Valve Stem	1

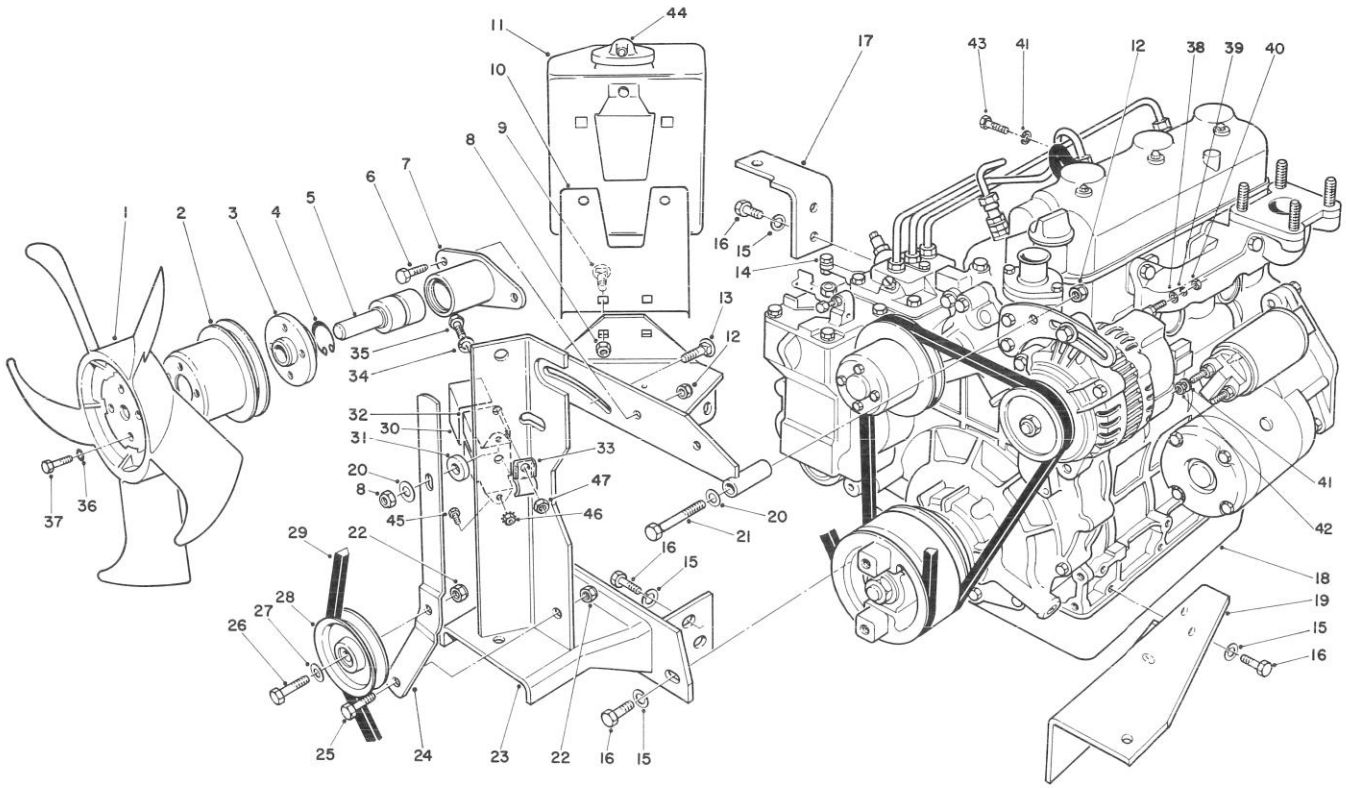


T-0541-89

HYDRAULIC (STEERING) CYLINDER NO. 63-6740

Ref. No.	Part No.	Description	No. Used
1	66-2770	Tube — Cylinder	1
2	66-1960	Kit — Seal	1
3	66-1950	Kit — Gland	1

Ref. No.	Part No.	Description	No. Used
4	66-2760	Piston Rod Assembly	1
5	66-1940	Piston	1
6	66-1930	Nut — Lock	1

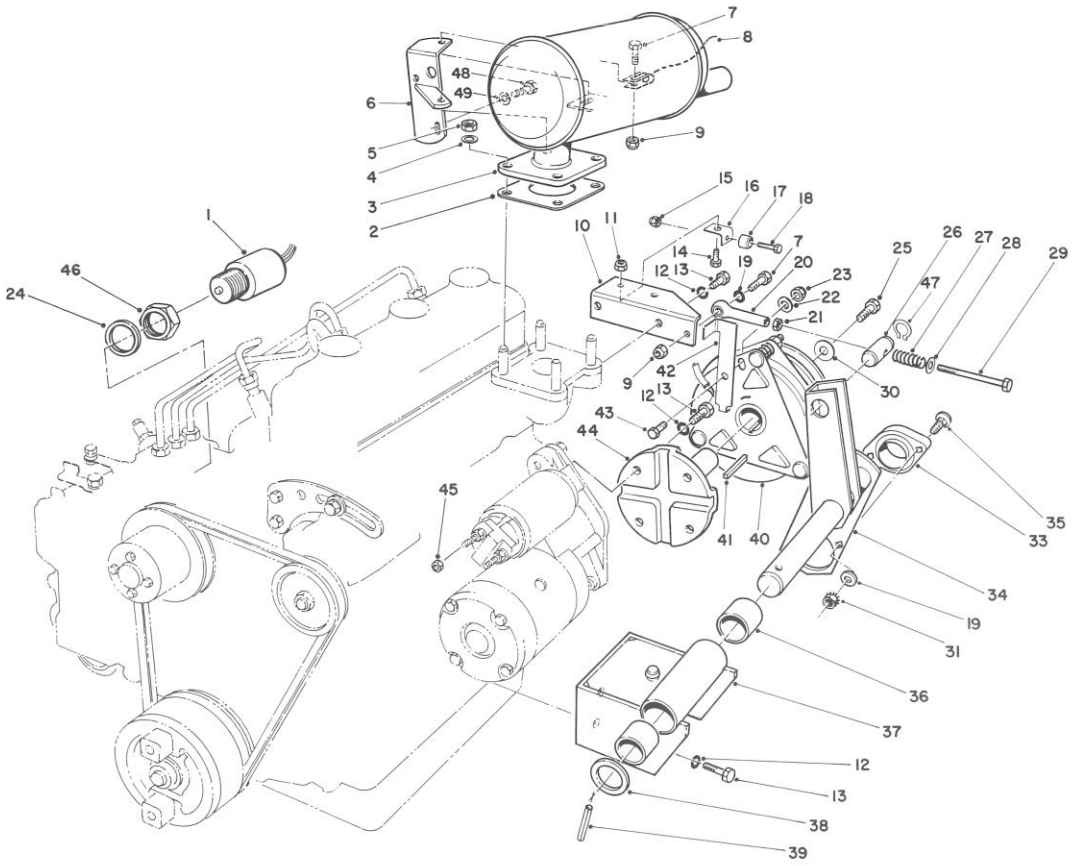


T-0542-89

ENGINE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	43-1910	Fan — Cooling	1
2	42-9070	Pulley — Fan	1
3	53-8680	Hub, Fan	1
4	32120-10	Ring, Retaining	1
5	36-7290	Shaft w/Bearing	1
6	322-4	Screw	2
7	66-2390	Hub W.A.	1
8	32149-1	Nut — Lock	3
9	3230-23	Carriage Bolt	2
10	66-2440	Plate, Reservoir	1
11	63-7380	Tank — Expansion (Incl. Ref. #44)	1
12	3296-29	Nut, Lock	3
13	3230-2	Carriage Bolt	1
14	63-6760	Swivel, Throttle Cable	1
15	45-9590	Washer, Lock	12
16	63-7790	Screw	12
17	71-2910	Angle, Engine Mount	1
18	63-7060	Engine	1
19	66-2320	Mount, Engine	1
20	3256-23	Washer	2
21	322-11	Screw	1
22	3296-39	Nut, Lock	2
23	71-1450	Bracket WA.	1

Ref. No.	Part No.	Description	No. Used
24	63-6720	Lever, Idler	1
25	323-6	Screw	1
26	323-8	Screw	1
27	3256-24	Washer	1
28	63-8140	Pulley	1
29	63-7130	Belt, Fan	1
30	70-8560	Retainer — Glow Plug	1
31	27-9560	Spacer	1
32	66-8700	Indicator — Glow (Incl. Ref. #30)	1
33	3-6657	Clip — Skid	1
34	3253-3	Washer — Lock	1
35	321-4	Screw — Cap Hex. Hd.	1
36	3253-3	Washer, Lock	4
37	321-2	Screw	4
38	5-3637	Washer — Flat	1
39	43-5920	Washer — Lock	1
40	43-5970	Nut — Hex	1
41	42-9850	Washer — Lock	3
42	57-6390	Nut — Hex	2
43	48-7680	Screw — Hex	1
44	71-1520	Cap — Reservoir	1
45	32105-8	Screw	2
46	32149-7	Nut — Keps	2
47	3217-5	Nut — Hex	1



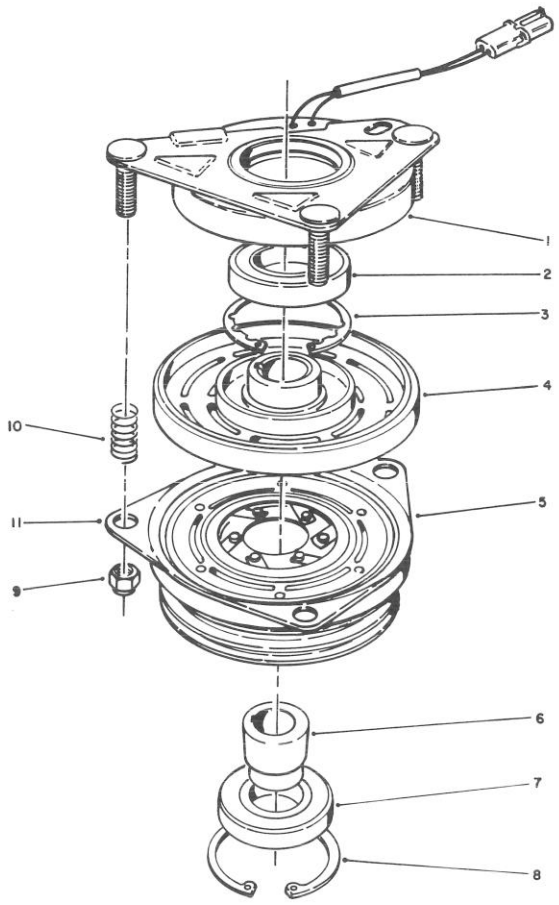
T-0543-89

POWER TAKE-OFF ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	63-7440	Solenoid — Stop	1
2	53-8130	Gasket — Exhaust	1
3	63-6810	Muffler	1
*	66-1540	Spark Arrester — Muffler (Optional)	1
4	42-9850	Washer — Lock	4
5	48-7930	Nut — Hex	4
6	66-2360	Muffler Support	2
7	322-5	Screw	2
8	66-2870	Cable, Hood Stop	1
9	3296-29	Nut, Lock	2
10	63-6700	Bracket	1
11	3296-42	Nut, Lock	2
12	48-9590	Washer, Lock	8
13	63-7790	Screw	8
14	321-3	Screw	2
15	3296-9	Nut, Lock	2
16	63-8230	Angle, Clutch Anchor	2
17	66-2910	Bumper, Rubber	2
18	3250-39	Screw, Pad Head	2
19	3256-23	Washer	5
20	66-2900	Tie Rod End	1
21	3220-2	Nut, Jam	1
22	3256-24	Washer, Flat	1
23	3296-39	Nut — Hex Lock	1

Ref. No.	Part No.	Description	No. Used
24	43-2740	Gasket	1
25	3212-5	Screw	1
26	63-6290	Pin, Tension	1
27	3-6624	Spring	1
28	4-2390	Washer	1
29	66-3100	Screw	1
30	67-1631	Spacer	1
31	32149-1	Nut, Keps	2
33	251-335	Bearing	1
34	63-6250	Shaft, PTO Tension	1
35	3230-4	Bolt, Carriage	2
36	256-299	Bushing	2
37	67-1800	Pivot Plate (Incl. Ref. #36)	1
38	3-4324	Washer	1
39	32121-32	Roll Pin	1
40	63-6050	Clutch, Electric	1
41	63-8150	Key	1
42	63-6690	Lever, Clutch Anchor	1
43	323-34	Screw	1
44	63-6030	Hub, Clutch	1
45	57-6390	Nut — Hex	2
46	43-2750	Nut — Hex, Jam	1
47	32151-83	Snap Ring	2
48	66-3160	Screw	1
49	3253-4	Washer — Lock	1

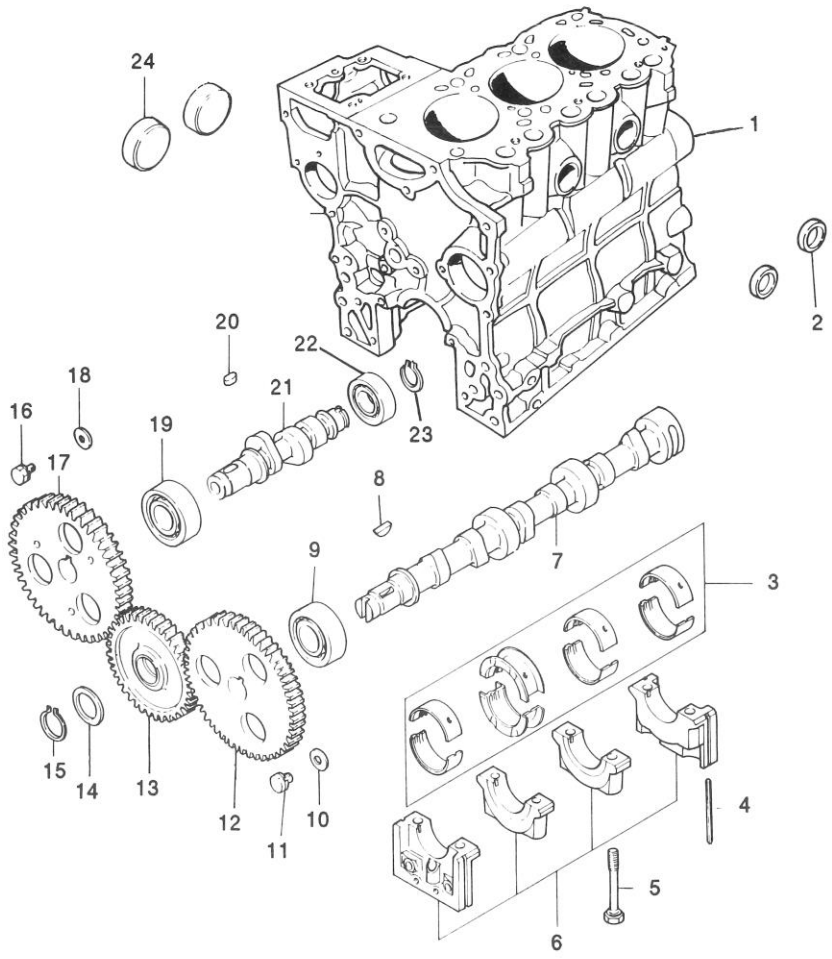
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T-0544-89

CLUTCH ASSEMBLY NO. 63-6050

Ref. No.	Part No.	Description	No. Used
1	67-7050	Field Rotor Assy. (Incl. Ref. #2-4)	1
2		Bearing — Field	1
3		Retaining Ring	1
4		Field Coil, Rotor & Bearing Assembly	1
5	67-7070	Armature & Pulley Assembly (Inc. Ref. #3)	1
6	67-7080	Bearing Collar	1
7	67-7090	Bearing — Pulley	1
8	67-7060	Retaining Ring	1
9	3296-6	Locknut	3
10	44-8320	Spring	3
11	67-7100	Brake Plate	1

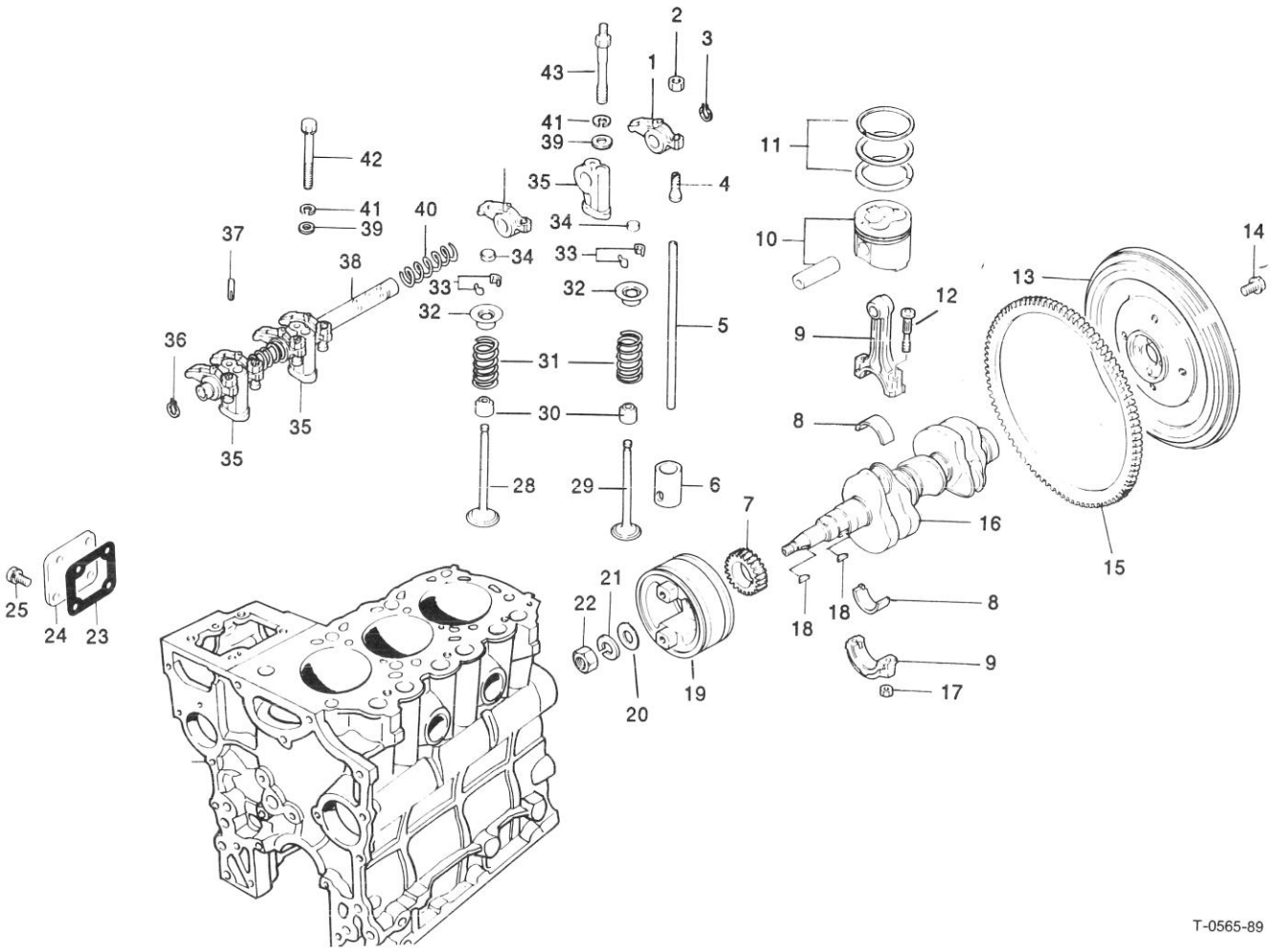


T-0564-89

CAMSHAFT ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	67-2240	Block Sub-Assy (Incl. Ref. #2,5, 6 & 24)	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	Cam Shaft	1
8	56-0480	Key, Woodruff	1
9	67-3030	Bearing	1
10	67-3000	Washer	1
11	42-9490	Bolt w/Washer	1

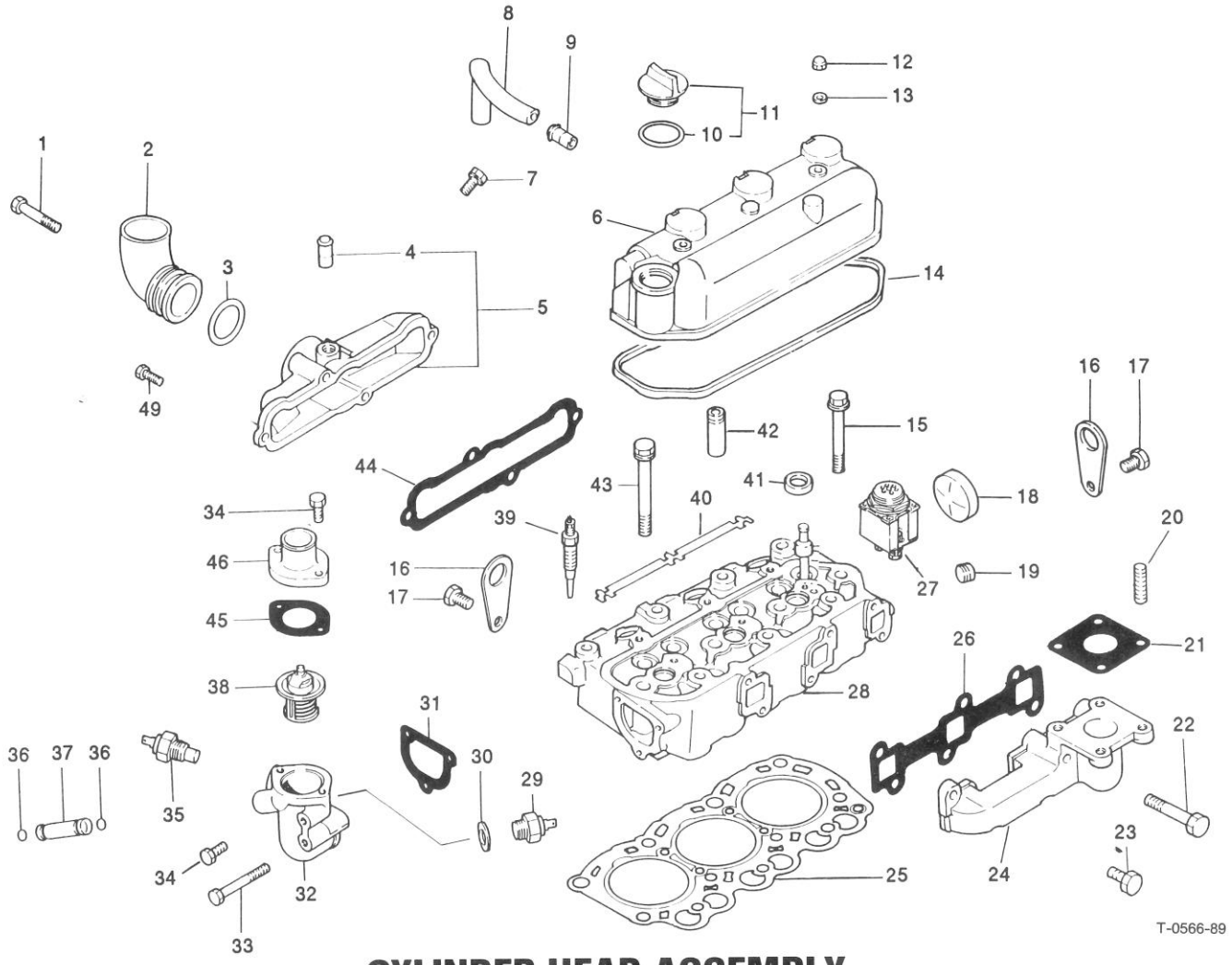
Ref. No.	Part No.	Description	No. Used
12	67-3020	Gear	1
13	67-3090	Gear Assembly	1
14	67-3040	Plate	1
15	56-1060	Snap Ring	1
16	42-9490	Bolt w/Washer	1
17	67-3070	Gear	1
18	67-3000	Washer	1
19	67-3030	Bearing	1
20	42-7840	Key	1
21	67-3060	Shaft	1
22	67-3050	Bearing	1
23	67-3080	Snap Ring	1
24	56-0020	Plug	3



VALVES AND CRANKSHAFT ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	67-3160	Arm, Rocker	6
2	67-3230	Nut, Jam	6
3	67-3040	Snap Ring	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	3
	67-2890	Bearing Set 0.25 US	3
	67-2900	Bearing Set 0.50 US	3
9	67-2850	Rod Assembly, (Connecting) (Incl. Ref. #8, 9, 12 & 17)	3
10	68-8310	Piston & Pinset STD	3
	68-8320	Piston & Pinset 0.25 OS	3
	68-8330	Piston & Pinset 0.50 OS	3
11	67-2790	Ring Set STD	3
	67-2800	Ring Set 0.25 OS	3
	67-2810	Ring Set 0.50 OS	3
12	67-2860	Bolt	6
13	67-2970	Fly Wheel Assy. (Incl. Ref. #14)	1
14	67-2990	Bolt	4
15	67-2980	Gear, Ring	1
16	67-2970 20	Crankshaft	1
17	42-9590	Nut	6

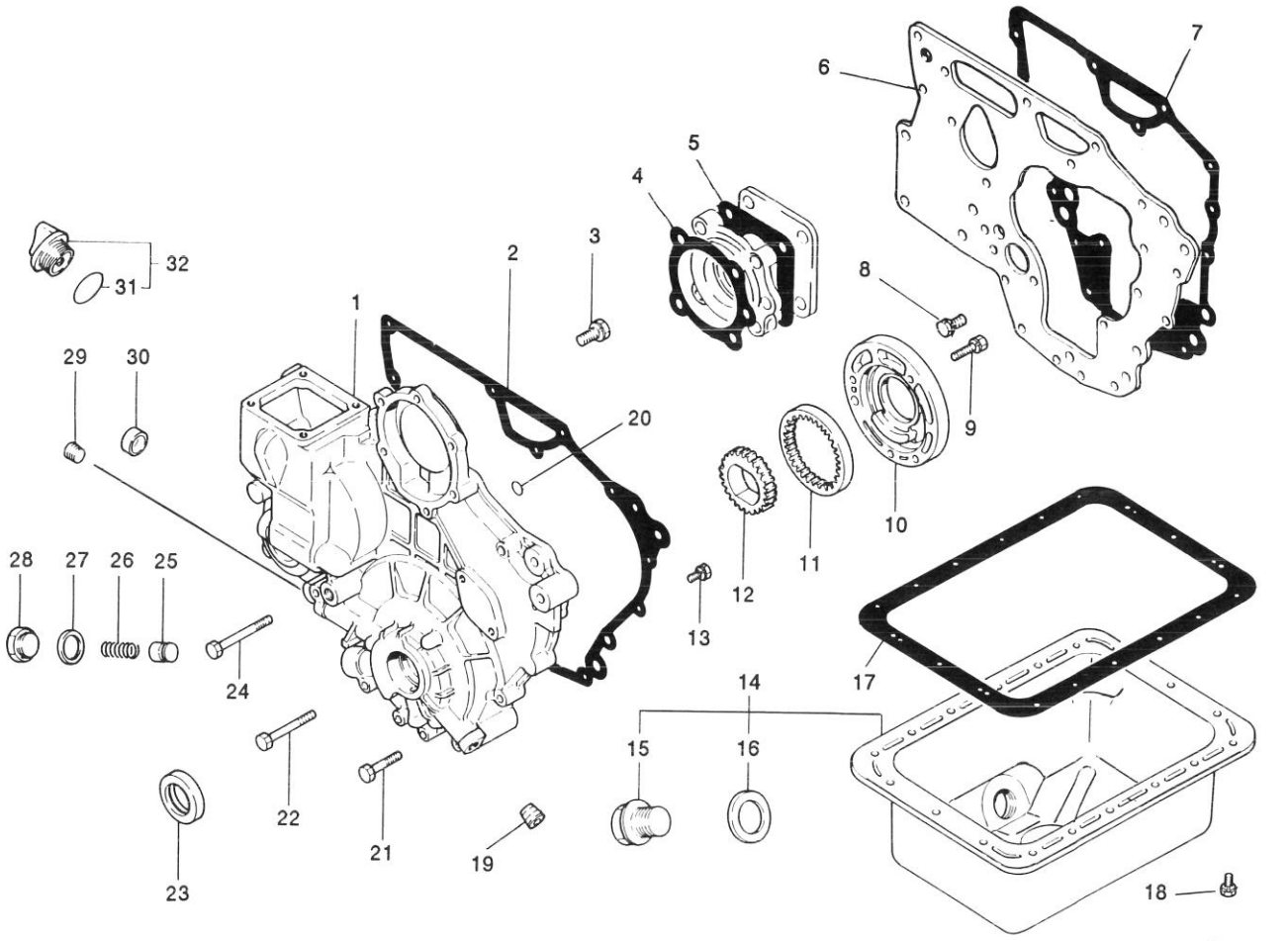
Ref. No.	Part No.	Description	No. Used
18	56-0480	Key, Woodruff	2
19	67-2930	Pulley, Crankshaft	1
20	67-2950	Washer	1
21	67-2960	Washer, Lock	1
22	67-2940	Nut, Jam	1
23	67-4310	Gasket	1
24	67-4250	Cover	1
25	42-9440	Bolt W/Washer	4
28	67-3130	Valve, Intake	3
29	67-3140	Valve, Exhaust	3
30	42-7870	Seal	6
31	67-3110	Spring	6
32	67-3100	Retainer	6
33	42-7860	Lock	12
34	67-3180	Cap	6
35	67-3200	Stay, Rocker	3
36	67-3240	Snap Ring	2
37	67-3220	Pin	1
38	67-3190	Shaft Assy, (Rocker)	1
39	42-9660	Washer	4
40	67-3170	Spring	2
41	67-3260	Washer	6
42	42-9510	Bolt	1
43	67-3250	Bolt, Rockers Stray	2



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, Sub-Assy (Intake)	1
6	67-2150	Cover, Assy. (Incl. Ref. #9)	1
7	42-9430	Bolt w/Washer	1
8	67-2670	Hose, Breather	1
9	42-7510	Pipe	1
10	67-2660	O-Ring	1
11	67-2650	Cap, Assy. (Oil Filler)	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	4
17	67-2340	Bolt w/Washer	4
18	56-0020	Plug, Expansion	1
19	67-2570	Plug, Taper	1
20	42-9570	Stud	4
21	42-9110	Gasket	1
22	67-4580	Bolt	2
23	67-4590	Bolt	4
24	67-4560	Manifold, Exhaust	1

Ref. No.	Part No.	Description	No. Used
25	67-2720	Gasket, Cylinder Head	1
26	67-4570	Gasket, Exhaust Manifold	1
27	67-4700	Lamp, Glow	1
28	67-2690	Head Assy., Cylinder (Incl. Ref. #18, 41 & 42)	1
29	67-4500	Switch Assy., (Thermo)	1
30	67-4490	Gasket	1
31	67-4460	Gasket (Thermostat Fitting)	1
32	67-4450	Fitting, Thermostat	1
33	67-4470	Bolt	1
34	67-2330	Bolt	4
35	67-4510	Gauge Nut, Water Temp.	1
36	43-2710	O-Ring	2
37	67-4480	Pipe, By-Pass	1
38	67-4440	Thermostat	1
39	67-4680	Plug, Glow	3
40	67-4690	Plate, Glow Plug	1
41	67-2710	Cap, Sealing	3
42	67-2700	Guide, Valve	6
43	67-2730	Bolt	8
44	67-4550	Gasket, Intake Manifold	1
45	67-4430	Gasket, Water Outlet Fitting	1
46	67-4420	Fitting, Water Outlet	1
49	67-2330	Bolt	2

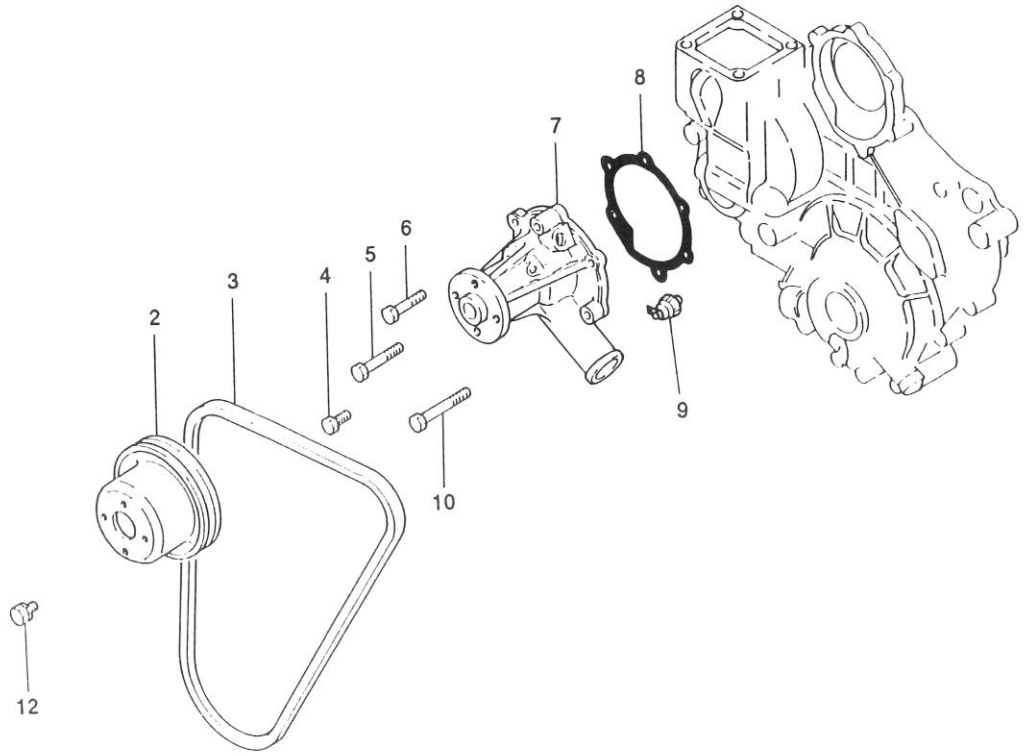


CRANKCASE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	67-2490	Case Sub-Assy.	1
2	67-2580	Gasket, Case	1
3	67-2340	Bolt w/Washer	3
4	67-4970	Gasket, Housing	1
5	42-7380	Gasket, Oil Pump Cover	1
6	67-2310	Plate	1
7	67-2320	Gasket, Plate	1
8	42-9440	Bolt w/Washer	7
9	67-2560	Bolt w/Washer	3
10	67-2550	Housing, Oil Pump	1
11	67-2540	Gear, Outer	1
12	67-2530	Gear, Inner	1
13	42-9440	Bolt w/Washer	4
14	67-2470	Pan Assy. (Oil) (Includes Ref. #15-16)	1
15	42-9260	Plug	1
16	42-7290	Gasket, Oil Drain	1

Ref. No.	Part No.	Description	No. Used
17	67-2480	Gasket, Oil Pan	1
18	42-9490	Bolt w/Washer	18
19	42-7210	Plug	1
20	67-2630	O-Ring	2
21	67-2600	Bolt	3
22	67-2610	Bolt	4
23	67-2590	Oil Seal	1
24	67-2620	Bolt	1
25	67-2500	Plunger	1
26	67-2510	Spring	1
27	42-7290	Gasket, Oil Drain Plug	1
28	67-2520	Plug	1
29	67-2570	Plug	1
30	67-2640	Cap	1
31	67-2660	O-Ring	1
32	67-2650	Cap Assy. (Oil Fill)	1
*	67-4940	Gasket Kit	1

*Not Illustrated

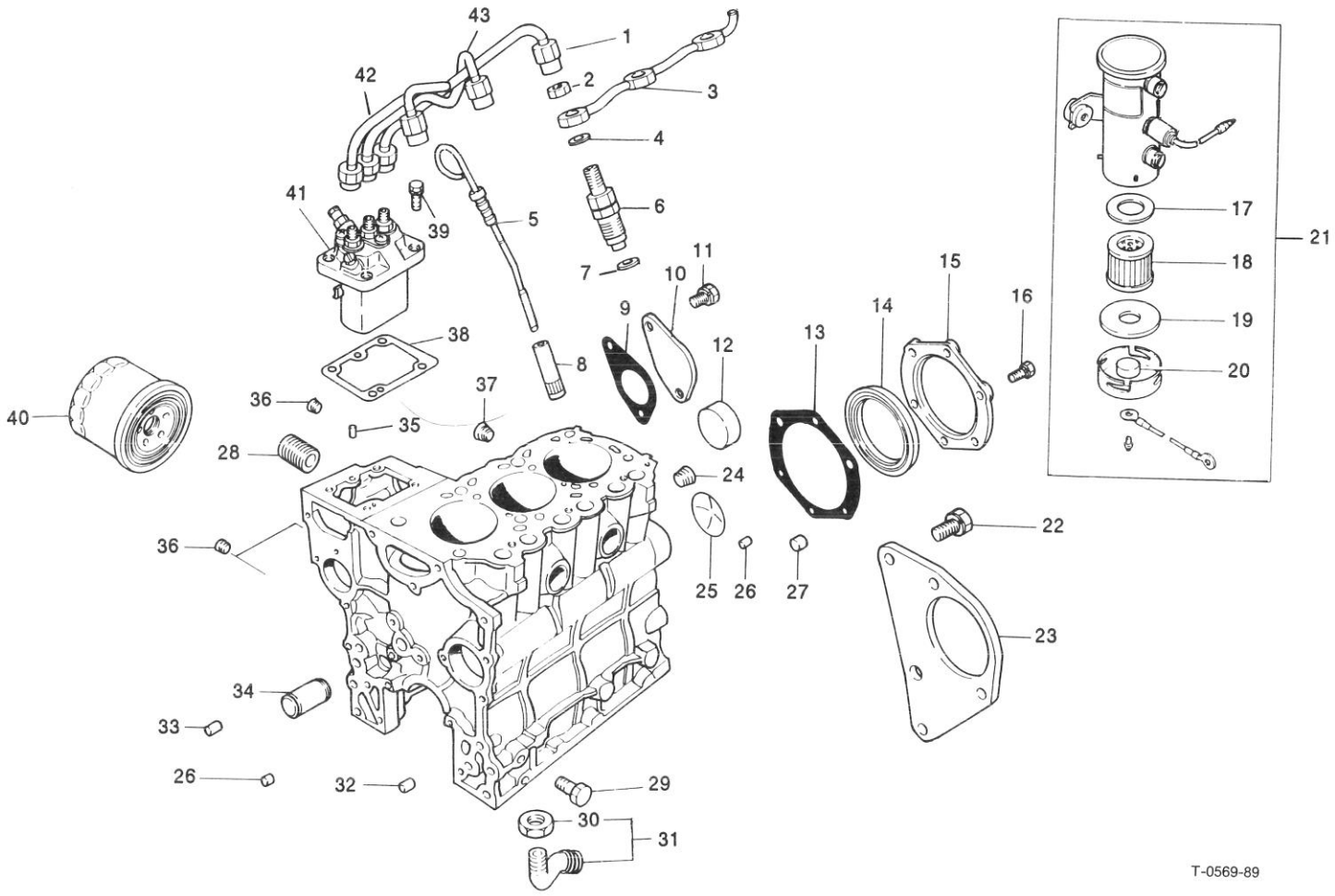


T-0568-89

WATER PUMP ASSEMBLY

Ref. No.	Part No.	Description	No. Used
2	67-4360	Pulley	1
3	67-4410	V-Belt	1
4	67-2330	Bolt	2
5	67-4400	Bolt	1
6	67-2600	Bolt	1

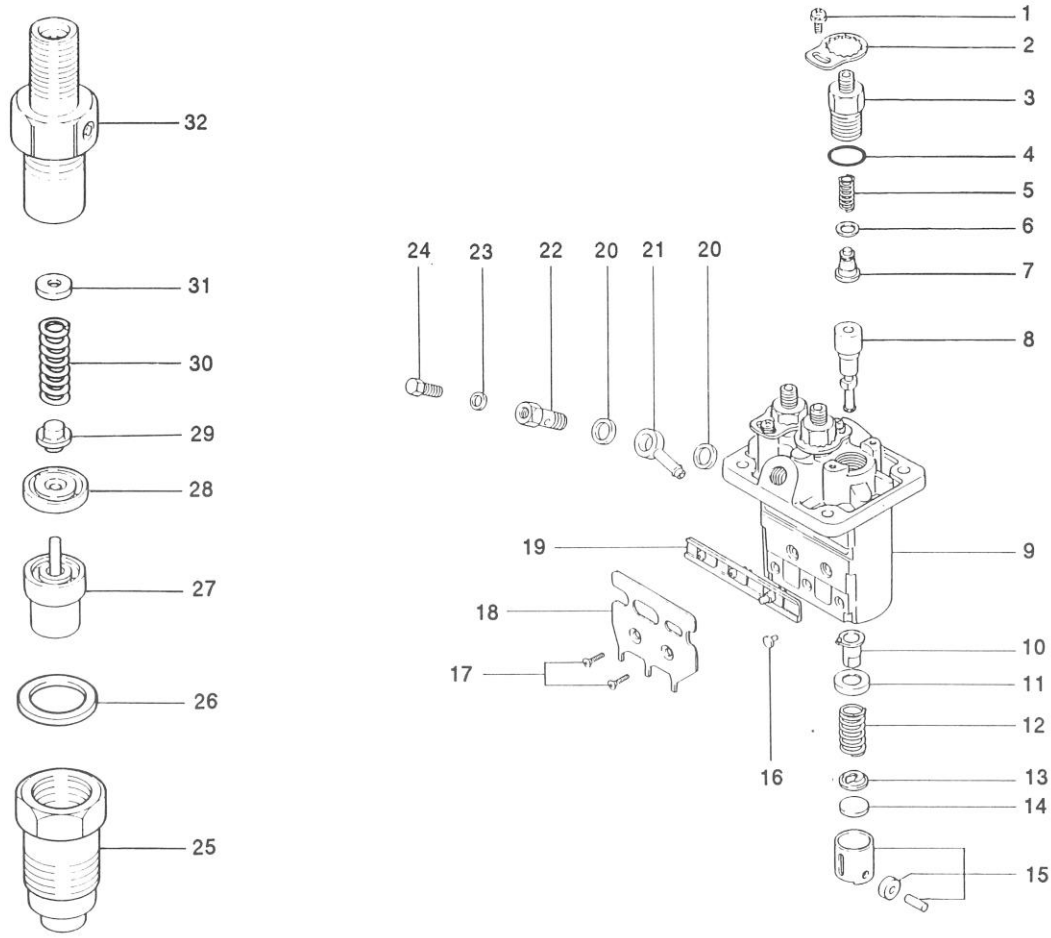
Ref. No.	Part No.	Description	No. Used
7	67-4380	Pump Assy.	1
8	67-4390	Gasket	1
9	67-4350	Switch Assy. (Oil Pressure)	1
10	67-2610	Bolt	2
12	42-9490	Bolt w/Washer	4



FUEL SUPPLY & ENGINE BLOCK ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	67-3420	Pipe Assy. No. 3	1
2	67-3430	Nut	3
3	67-3450	Pipe, Fuel Return	1
4	67-3440	Gasket	3
5	67-2450	Dipstick	1
6	67-3380	Nozzle & Holder Assy.	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 w/Washer	2
12	56-0020	Plug	3
13	67-2280	Gasket	1
14	67-2230	Oil Seal	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 Assy. (Incl. Ref. #17-20)	1
22	67-2440	Bolt w/Washer	3
23	67-2430	Bracket	1
24	67-2390	Plug	1
25	67-2350	Plug	1
26	67-2360	Bushing	2

Ref. No.	Part No.	Description	No. Used
27	67-2380	Bushing	3
28	56-1230	Shaft, Oil Filter	1
29	67-2460	Bolt	4
30	42-9650	Nut, Jam	1
31	67-4340	Screen Assy. (Incl. Ref. #30)	1
32	67-2370	Bushing	1
33	42-7190	Bushing	2
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 0.5	1
	67-3310	Shim 0.4	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 w/Washer	4
40	67-4330	Filter Assy, Oil	1
41	67-3270	Pump Assy.	1
42	67-3400	Pipe Assy. No. 1	1
43	67-3410	Pipe Assy. No. 2	1



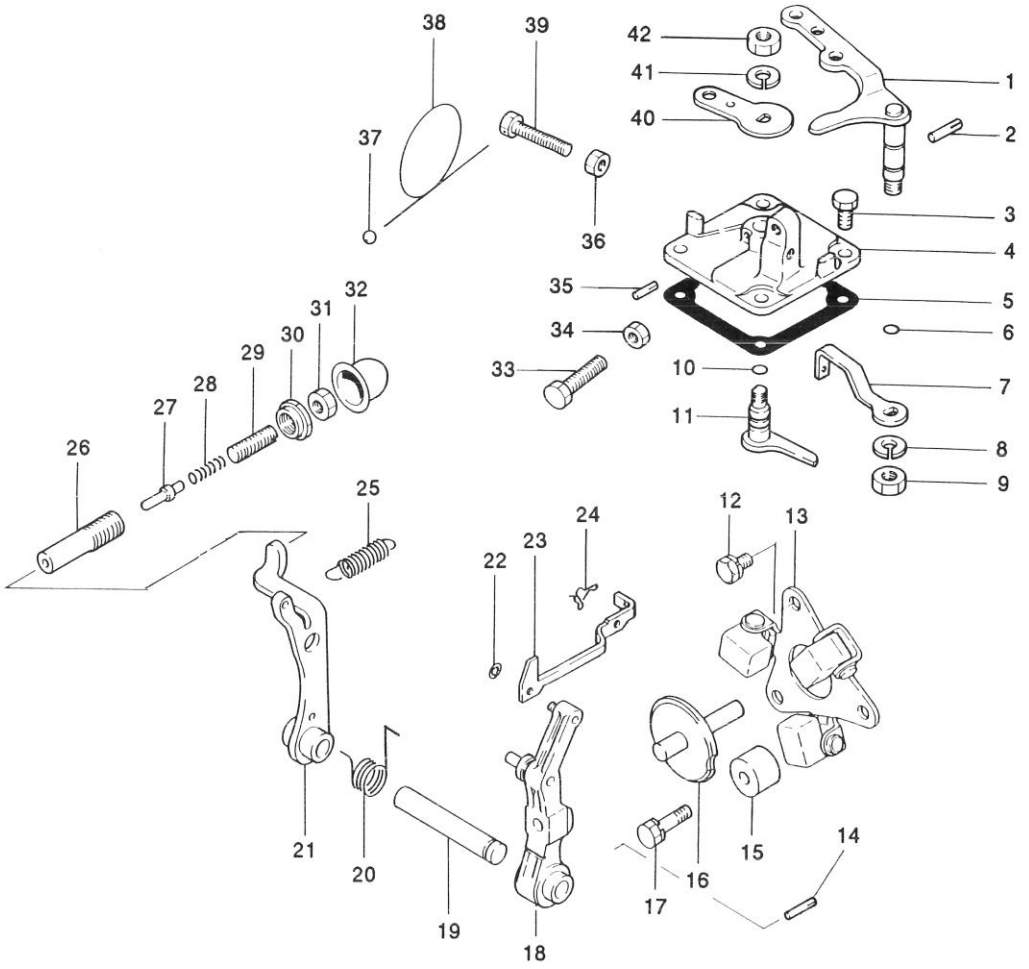
T-0570-89

FUEL INJECTION PUMP ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	67-3770	Screw w/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	67-3500	Valve Sub-Assy.	3
8	67-3510	Element Sub-Assy.	3
9	67-3460	Housing Sub-Assy, Pump	1
10	67-3520	Sleeve Sub-Assy.	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	
	67-3580	Plate, Shim 1.95	
	67-3590	Plate, Shim 2.0	
	67-3600	Plate, Shim 2.05	
	67-3610	Plate, Shim 2.1	
	67-3620	Plate, Shim 2.15	
	67-3630	Plate, Shim 2.2	
	67-3640	Plate, Shim 2.25	
	67-3650	Plate, Shim 2.3	
	67-3660	Plate, Shim 2.35	
	67-3670	Plate, Shim 2.4	
	67-3680	Plate, Shim 2.45	
	67-3690	Plate, Shim 2.5	
15	67-3700	Tappet Assy.	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 Assy.	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, Air Bleed	1
25	67-3970	Nut	3
26	67-3980	Gasket	3
27	67-3990	Nozzle Assy.	3
28	67-3950	Piece	3
29	67-3940	Pin	3
30	67-3930	Spring	3
31	67-3830	Washer 12.5	1
	67-3840	Washer 1.3	
	67-3850	Washer 1.35	
	67-3860	Washer 1.4	
	67-3870	Washer 1.45	
	67-3880	Washer 1.5	
	67-3890	Washer 1.55	
	67-3900	Washer 1.6	
	67-3910	Washer 1.65	
	67-3920	Washer 1.7	
32	67-3820	Body Sub-Assy.	3
*	67-3270	Pump Assy. (Incl. Ref. #1-24)	1
*	67-3380	Nozzle and Holder Assy. (Incl. Ref. #25-32)	3

*Not Illustrated



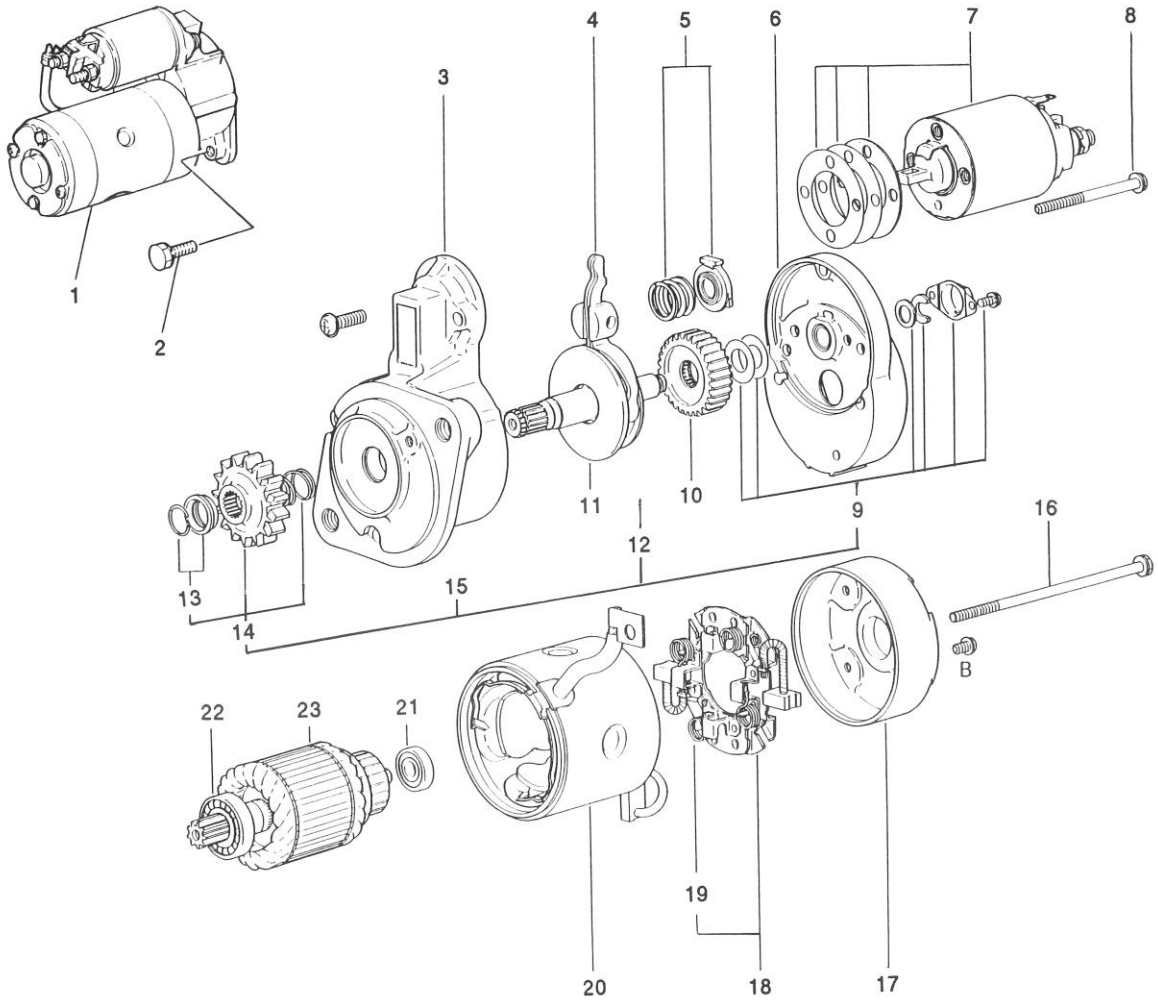
T-0571-89

GOVERNOR ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	67-3990	Lever Assy., (Speed Control)	1
2	67-4000	Pin	2
3	67-4270	Bolt	4
4	67-4310	Cover, Governor	1
5	67-4160	Gasket	1
6	42-8830	O-Ring	1
7	67-4020	Lever, Governor Spring	1
8	67-3260	Washer	1
9	42-9640	Nut, Jam	1
10	42-8830	O-Ring	1
11	67-4140	Lever Assy. (Stop)	1
12	42-9430	Bolt w/Washer	2
13	67-4040	Weight Assy.	1
14	67-4000	Pin	2
15	67-4010	Stopper	1
16	67-4070	Shaft Assy. (Sliding)	1
17	42-9440	Bolt w/Washer	1
18	67-4060	Lever Assembly (Governor)	1
19	67-4050	Shaft	1
20	67-4100	Spring	1
21	67-4190	Lever Assembly (Tension)	1
22	67-4300	Snap Ring	1
23	67-4030	Rod, Tie	1

Ref. No.	Part No.	Description	No. Used
24	67-4080	Clip	1
25	67-4260	Spring	1
26	67-4210	Case, Torque Spring	1
27	67-4230	Stopper	1
28	67-4190	Spring, Torque	1
29	67-4220	Screw, Adjusting	1
30	67-4200	Nut, Special	1
31	67-4180	Nut	1
32	67-4240	Cap	1
33	42-9420	Bolt	2
34	67-4290	Nut	2
35	67-4120	Pin	1
36	67-4290	Nut	2
37	42-8690	Metal, Sealing	1
38	42-8700	Wire	1
39	42-9420	Bolt	2
40	67-4150	Lever, Stop	1
41	67-3260	Washer	1
42	42-9640	Nut, Jam	1
*	67-4110	Cover Assembly (Includes Ref. #4, 10, 11, 35 & 40-42)	1
*	67-4170	Spring Set (Incl. Ref. #26-31)	1

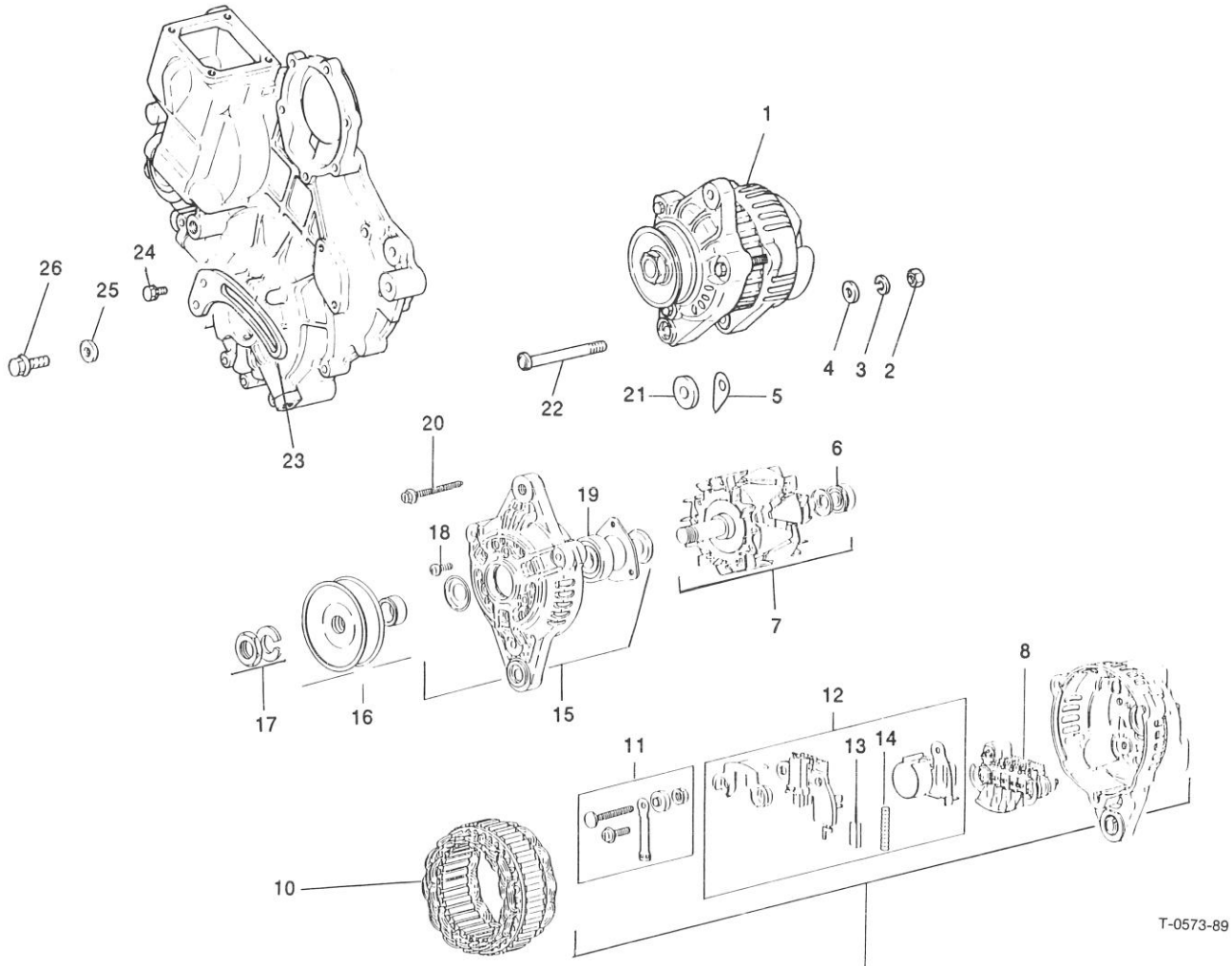
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STARTER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	67-4600	Starter Assy. (Incl. REf. #3-23)	1
2	67-4610	Bolt w/Washer	2
3	67-4710	Bracket Assy. (Front)	1
4	67-4720	Lever Assy.	1
5	67-4730	Spring Set	1
6	67-4740	Bracket Assy. (Center)	1
7	67-4750	Switch Assy.	1
8	52-1570	Bolt Set	1
9	56-1680	Cover Set	1
10	56-1670	Gear	1
11	67-4790	Shaft Assy.	1
12	67-4780	Gear Set (Incl. Ref. #10 & 11)	1
13	56-1640	Stopper Set	1

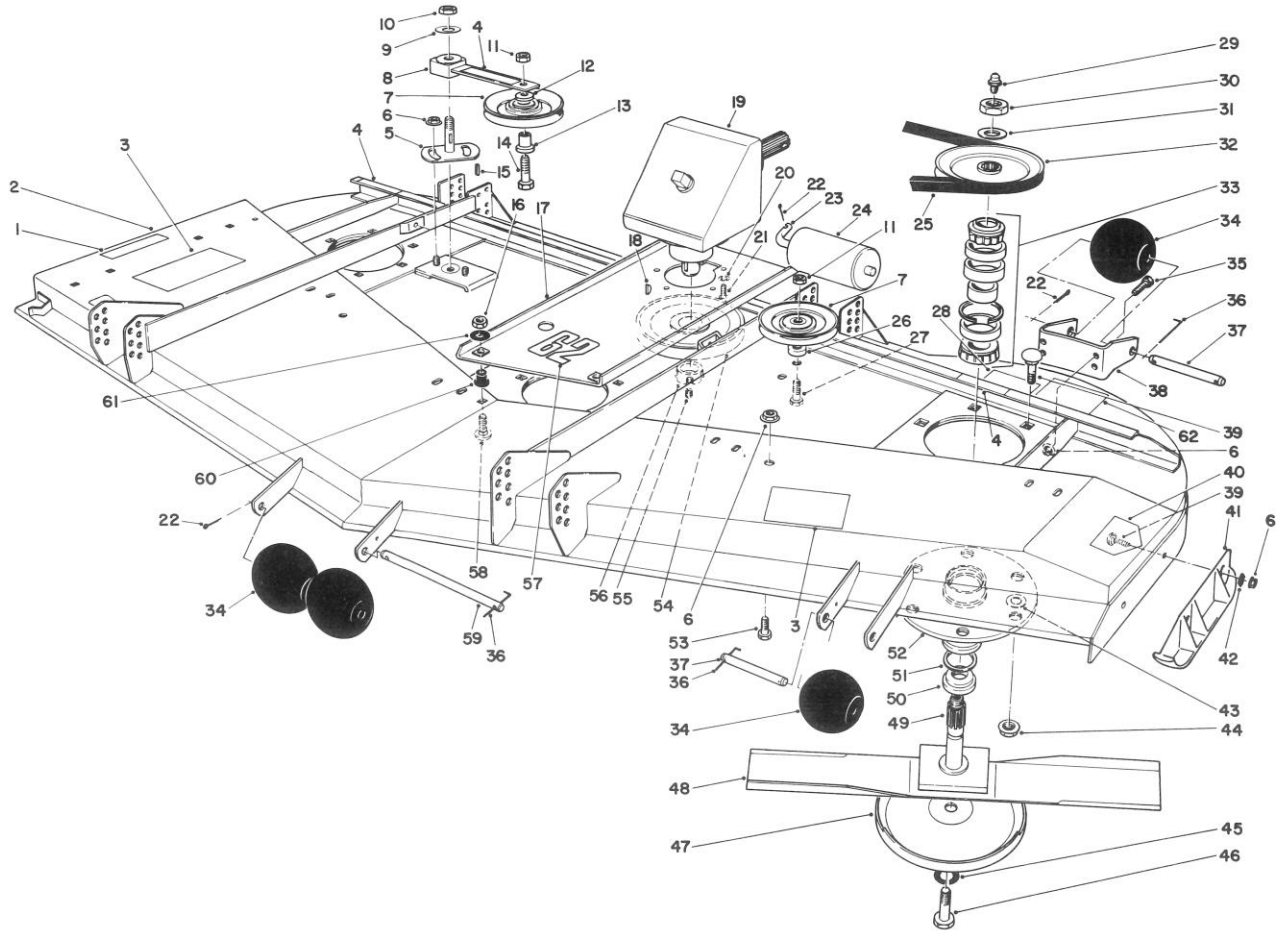
Ref. No.	Part No.	Description	No. Used
14	67-4770	Pinion Set (Incl. Ref. #13)	1
15	67-4760	Shaft Assy. (Incl. Ref. #9, 12 & 14)	1
16	56-1610	Bolt	1
17	56-1720	Bracket Assy. (Rear)	1
18	56-1700	Holder Assy. (Brush) (Incl. Ref. #19)	1
19	56-1710	Spring, Brush	4
20	67-4800	Yoke Assy.	1
21	56-1600	Bearing, Rear	1
22	56-1590	Bearing, Front	1
23	56-1580	Armature Set (Incl. Ref. #21 & 22)	1



ALTERNATOR ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	67-4630	Alternator Assy. (Incl. Ref. #6-17)	1
2	67-4670	Nut	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 Assy. (Incl. Ref. #6)	1
8	67-4930	Rectifier Assy.	1
9	67-4890	Bracket Assy. Rear (Incl. Ref. #8, 11 & 12)	1
10	67-4880	Stator Assy.	1
11	67-4900	Terminal Set	1
12	67-4910	Regulator Assy. (Incl. Ref. #13 & 14)	1

Ref. No.	Part No.	Description	No. Used
13	67-4920	Brush	2
14	43-0510	Spring, Brush	2
15	67-4830	Bracket Assy., Front (Incl. Ref. #18 & 19)	1
16	67-4810	Pulley Set	1
17	43-1920	Nut Set	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 w/Washer	1
25	54-8660	Washer	1
26	67-4660	Bolt, Flange	1

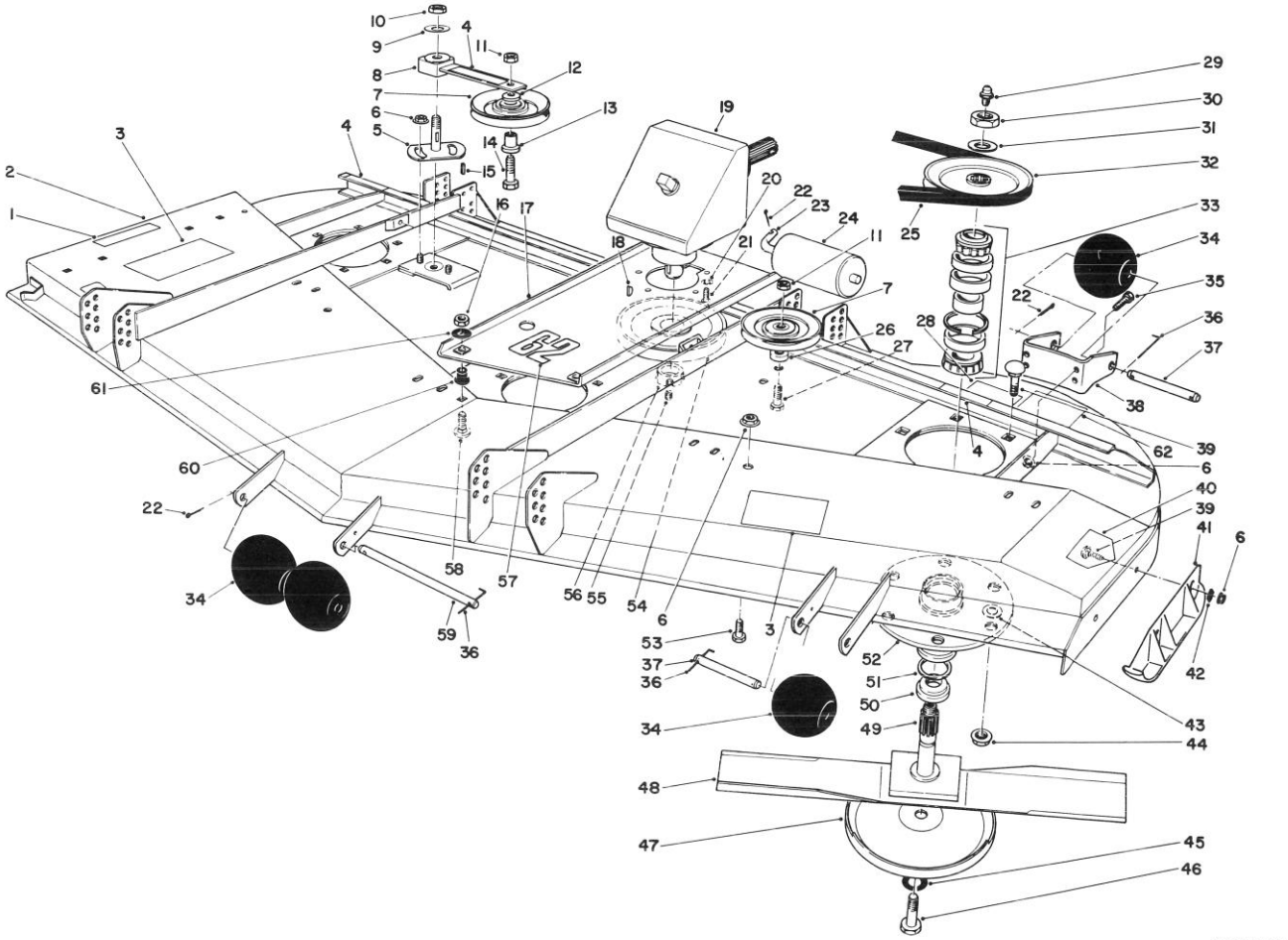


T-0545-89

CUTTING UNIT MODEL NO. 30564

Ref. No.	Part No.	Description	No. Used
1	66-6380	Decal, Deflector Missing	1
2	63-9840	Cutting Deck	1
3	66-1340	Decal — Danger	2
4	67-5360	Decal — Shield Missing	3
5	44-6300	Plate, Idler	1
6	3290-357	Nut, Lock	8
7	65-5940	Pulley, Idler	2
8	27-8580	Idler Socket & Bushing Assy.	1
9	3256-27	Washer	1
10	3296-33	Nut, Lock	1
11	3296-5	Nut, Lock	2
12	7-0081	Washer — Special	2
13	65-5950	Bushing — Pulley	2
14	3211-8	Screw, Cap Hex Hd.	1
15	5-1077	Key, Square	1
16	32153-2	Nut, Lock	4
17	63-9780	Base, Gear Box	1
18	3257-5	Key, Woodruff	1
19	8-0909	Gear Box	1
20	3253-21	Washer, Lock	5
21	3274-1	Screw, Cap Socket Hd.	5
22	3272-11	Cotter Pin	5
23	40-0340	Shaft, Rear Roller	2
24	36-1740	Roller, Deck	2
25	44-6260	V-Belt	1
26	44-6390	Spacer	1

Ref. No.	Part No.	Description	No. Used
27	3211-9	Screw, Cap Hex Hd.	1
28	68-8340	Decal — Blade Bolt Torque	1
29	302-2	Grease Fitting	3
30	32146-20	Nut, Jam	3
31	7-4150	Washer	3
32	44-6340	Pulley, Hub Spindle	3
33	46-8530	Bearing Assembly	3
34	29-4820	Roller	4
35	323-6	Hex Hd. Capscrew	2
36	57-0690	Cotter Pin — Special	3
37	57-0680	Shaft, Short	2
38	57-0580	Bracket — Roller Left Rear	1
39	3231-22	Bolt Carriage Short Neck	20
40	43-8480	Decal — Danger	1
41	57-0570	L.H. Skid	1
42	3290-224	Pyramidal Washer	2
43	3256-24	Washer	A/R
44	32128-21	Nut, Flange	18
45	3253-27	Washer — Lock	3
46	44-2200	Capscrew — Blade	3
47	27-1000	Anti-Scalp Cup	3
48	44-6250	Blade	3
49	27-0920	Spindle Shaft	3
50	27-0950	Spacer	3
51	253-139	Seal	6
52	61-4160	Spindle Housing	3

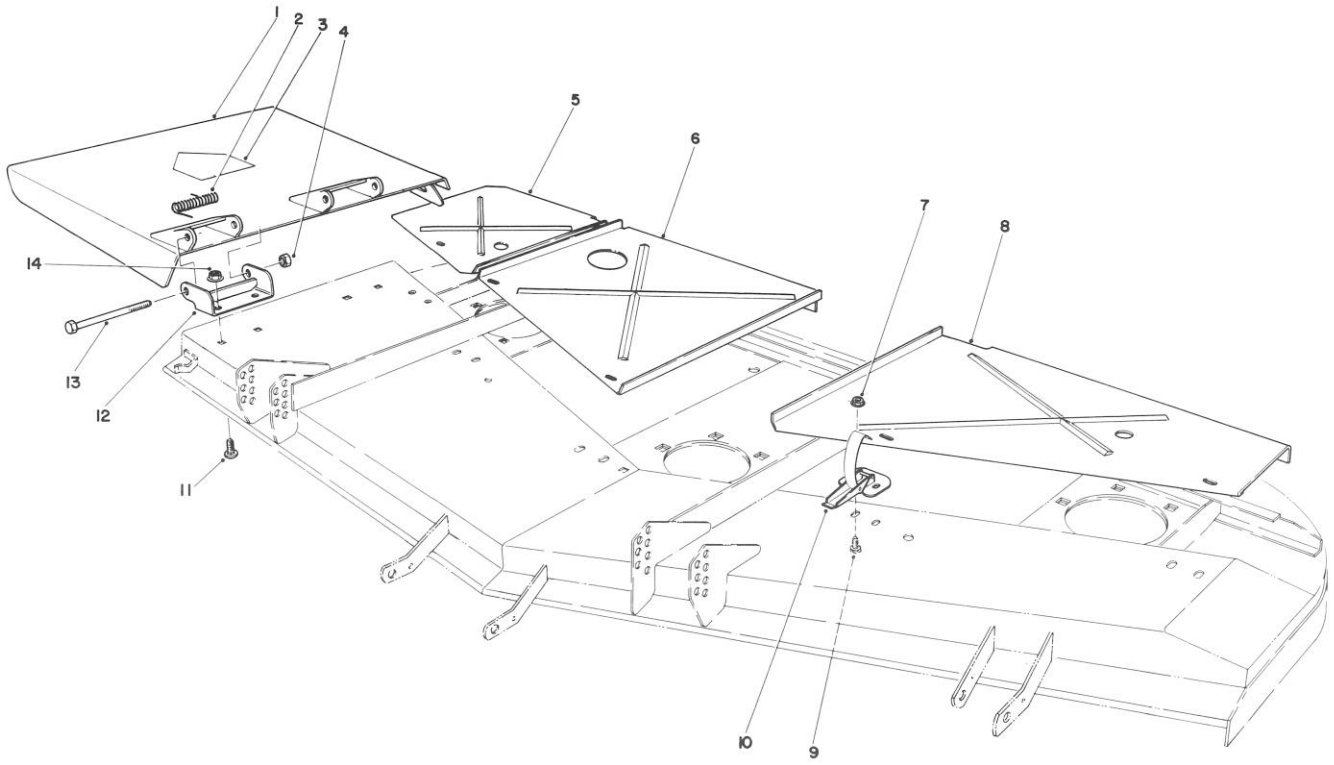


CUTTING UNIT MODEL NO. 30564 (Continued)

Ref. No.	Part No.	Description	No. Used
53	323-4	Screw, Cap Hex Hd.	2
54	63-9900	Pulley, Gear Box	1
55	3245-9	Screw — Set, Socket Hd.	2
56	27-6140	Bushing, Taper Lock (Incl. Ref. #55)	1
57	66-1630	Decal — 62	1
58	3231-26	Bolt, Carriage	4

Ref. No.	Part No.	Description	No. Used
59	40-6400	Shaft — Long	1
60	63-9750	Mount	4
61	63-8410	Washer	4
62	68-7260	Decal — Rear Weight 35	1
*	44-6370	Spindle Assembly (Incl. Ref. #29-33 & 49-52)	3

*Not Illustrated

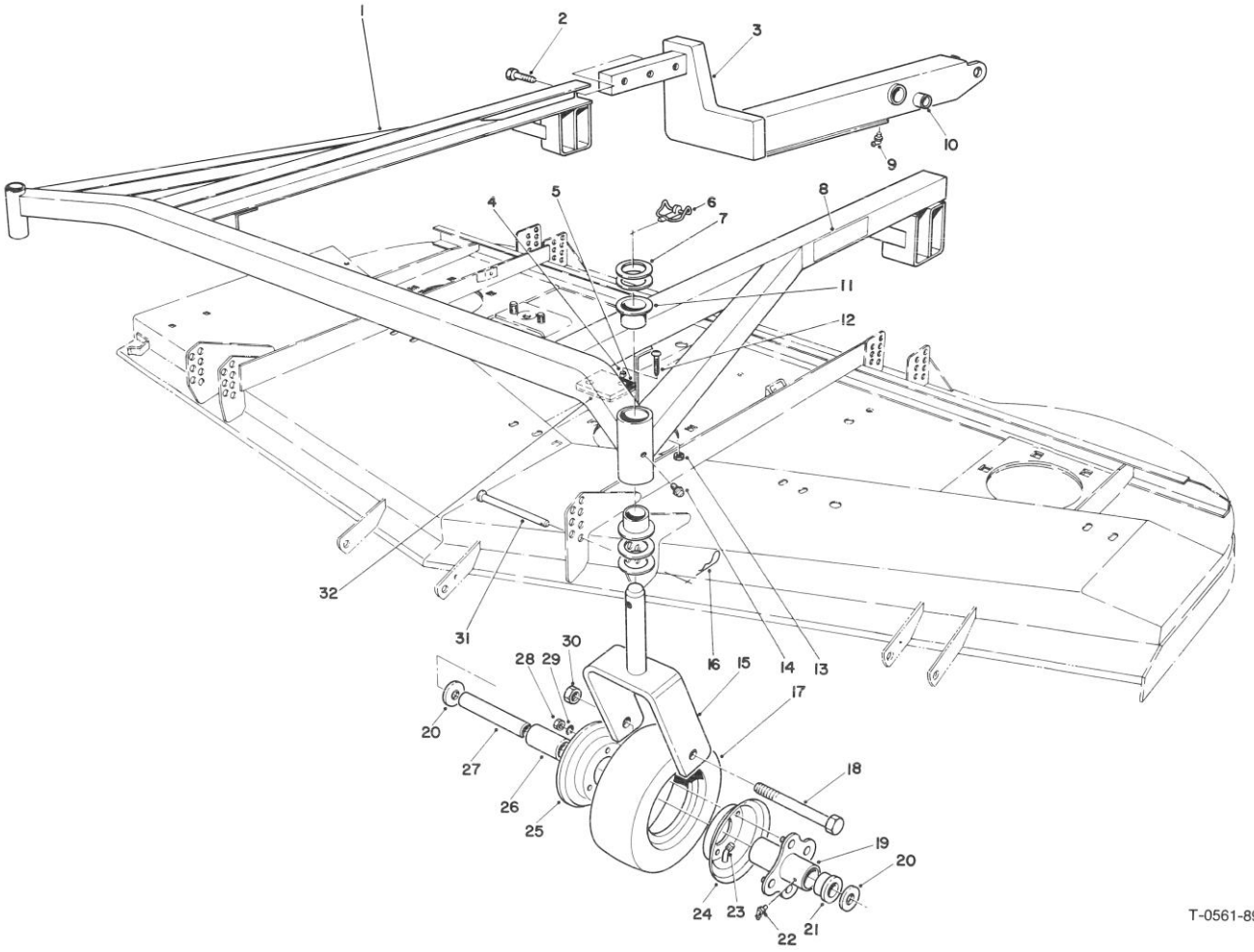


T-0560-89

CUTTING UNIT MODEL NO. 30564 (Continued)

Ref. No.	Part No.	Description	No. Used
1	52-5790	Deflector	1
2	51-1550	Spring	2
3	43-8480	Decal — Danger	1
4	32153-5	Nut — Lock	2
5	63-9830	Cover — Deck R.H.	1
6	65-5900	Cover — Deck Center	1
7	32128-17	Nut — Lock, Flange	10

Ref. No.	Part No.	Description	No. Used
8	44-6290	Cover — Deck L.H.	1
9	3290-321	Screw — Machine Hex Slotted	10
10	249-21	Latch Draw	5
11	3231-27	Bolt — Carriage	4
12	51-1530	Hinge Bracket	2
13	325-17	Screw — Cap Hex. Hd.	2
14	3290-357	Nut — Lock	4



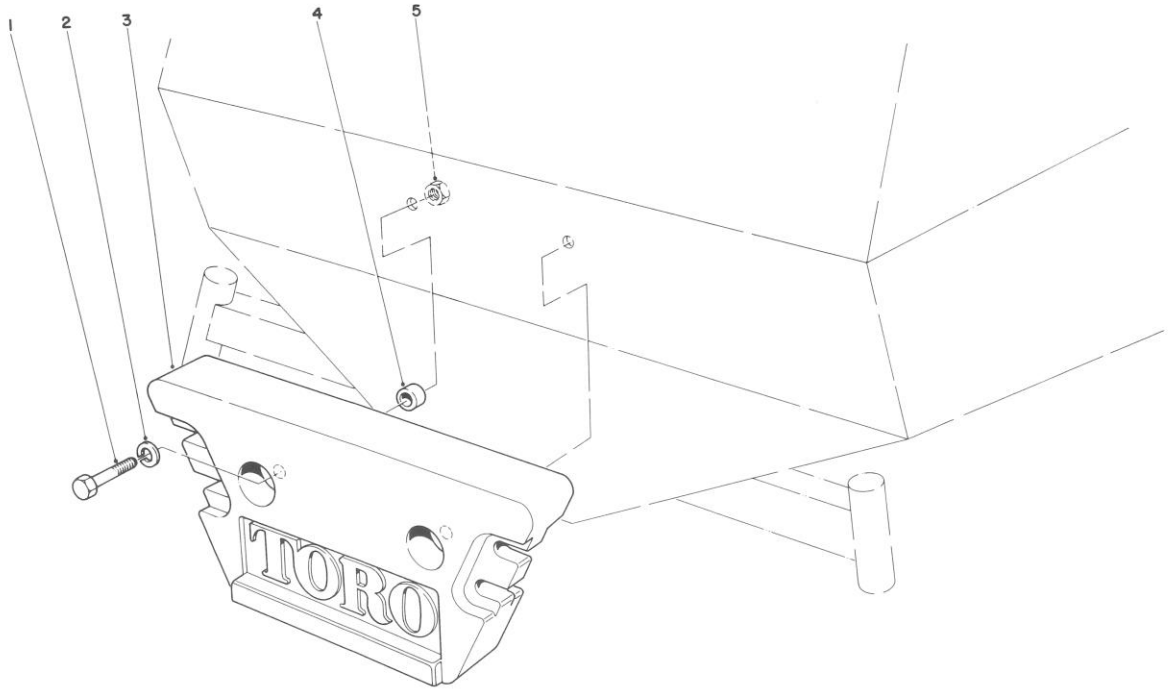
T-0561-89

CUTTING UNIT MODEL NO. 30564 (Continued)

Ref. No.	Part No.	Description	No. Used
1	67-2000	Frame (Incl. Ref. #9 & 10)	1
2	325-6	Hex Hd. Capscrew	6
3	67-1910	Lift Arm — R.H.	1
*	67-1920	Lift Arm — L.H.	1
4	40-9520	Spacer — Split	4
5	40-0330	Cushion — Rubber	2
6	3290-384	Lynch Pin	2
7	3-6781	Washer — Thrust	8
8	68-8360	Decal — H.O.C.	1
9	302-40	Grease Fitting	2
10	256-101	Bushing	4
11	28-9290	Bushing Special	4
12	32122-28	Screw — Machine Truss Hd.	4
13	3296-2	Nut — Lock	4
14	302-5	Grease Fitting	2
15	68-8900	Front Castor Fork	2
16	3290-355	Pin — Hair	4
17	68-8960	Tire	2

Ref. No.	Part No.	Description	No. Used
18	325-19	Screw Cap Hex Hd.	2
19	68-8940	Hub — Center	2
20	3256-6	Thrust Washer	4
21	62-5580	Bushing	4
22	302-61	Fitting — Grease	2
23	68-8950	Tube — w/Valve	2
24	68-8920	Wheel Half — Female	2
25	68-8930	Wheel Half — Male	2
26	62-5570	Roller Bearing	2
27	68-8980	Spanner Bushing	2
28	3217-6	Hex Nut	8
29	3253-4	Lockwasher	8
30	32153-5	Locknut	2
31	283-55	Pin Clevis	4
32	42-6200	Shim — Cushion	A/R
*	13-3869	Castor Wheel Assembly (Incl. Ref. #17, 19, 21-26, & 28-29)	2

*Not Illustrated

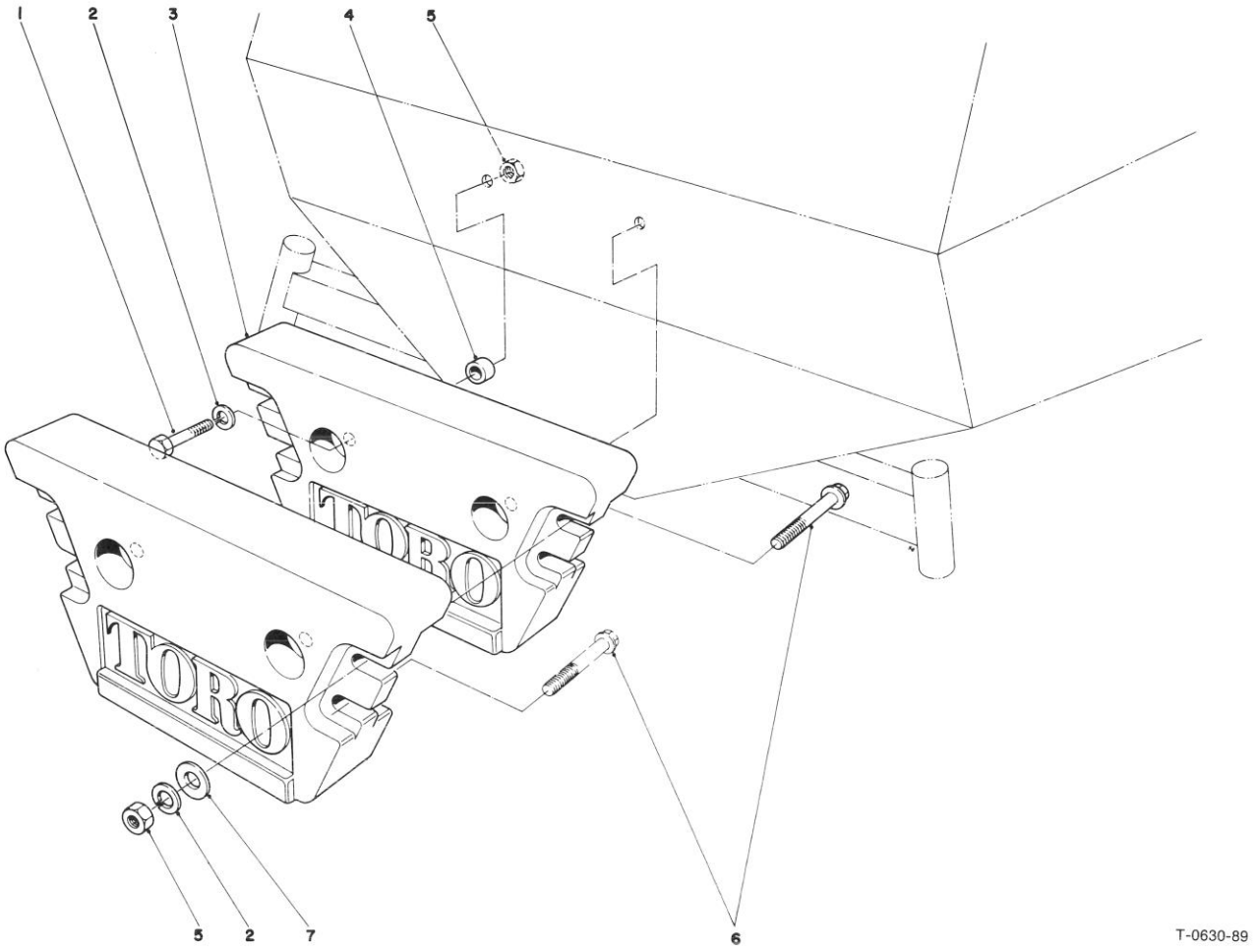


T-0562-89

REAR WEIGHT†

Ref. No.	Part No.	Description	No. Used
1†	325-8	Screw – Cap, Hex Hd.	2
2†	3253-7	Washer – Lock, Spring	2
3†	24-5790	Rear Weight	1
4†	57-4230	Spacer	2
5†	3217-9	Nut – Hex	2

†One required on Groundsmaster 220D with 62" cutting unit. Parts must be ordered separately.



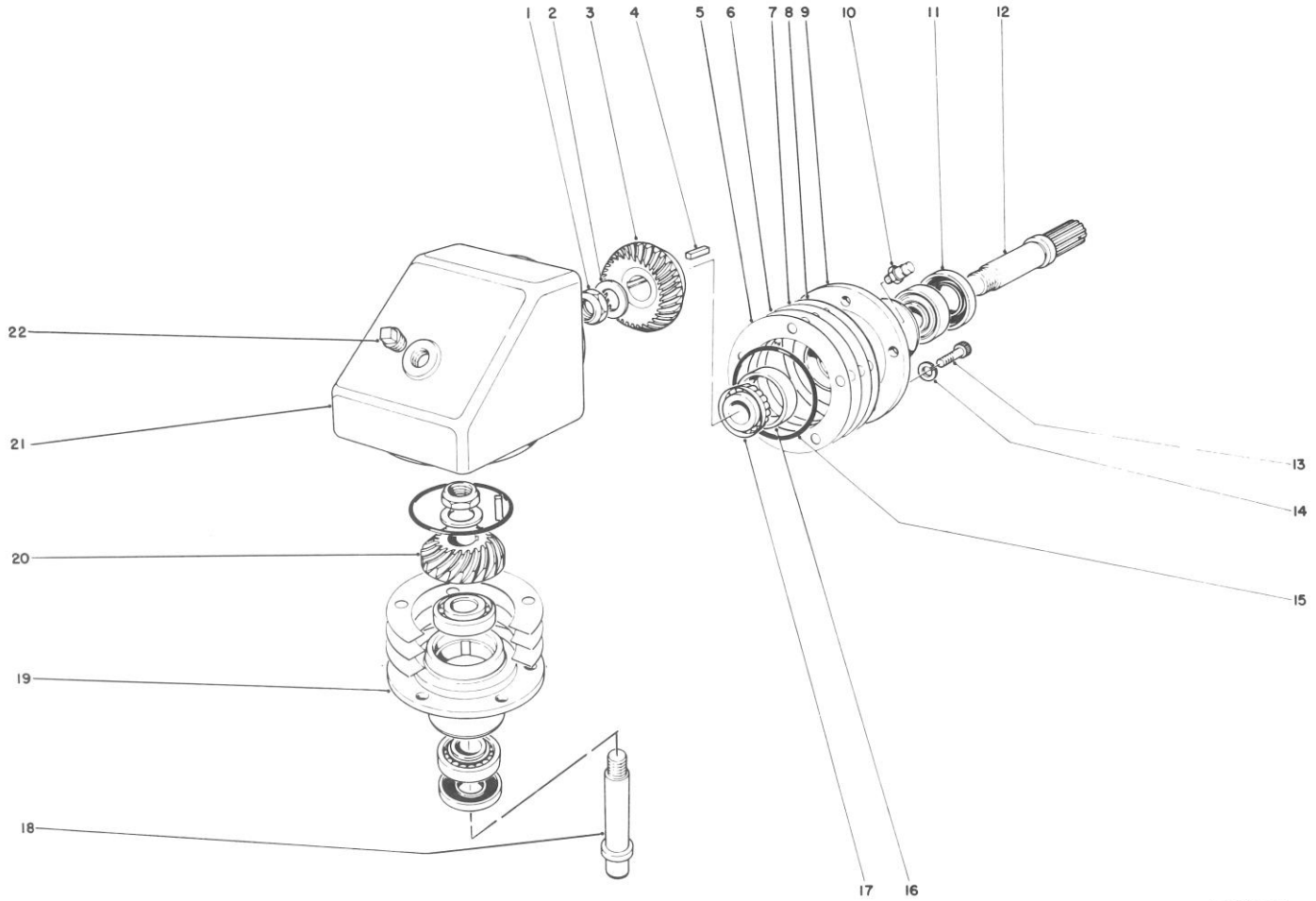
T-0630-89

†REAR WEIGHT KIT NO. 24-5780 (Optional)

Ref. No.	Part No.	Description	No. Used
1	325-8	Capscrew	2
2	3253-7	Lockwasher	6
3	24-5790	Rear Weight	2
4	57-4230	Spacer	2

Ref. No.	Part No.	Description	No. Used
5	3217-9	Nut	6
6	325-14	Capscrew	4
7	3256-26	Flatwasher	8

†One kit (two weights) required on Groundsmaster 220-D with 72" Cutting Unit.

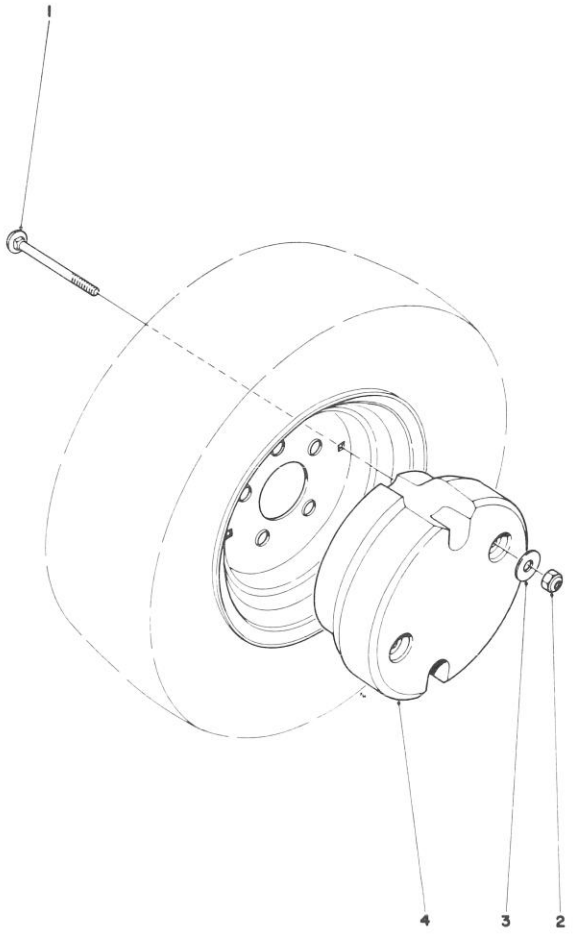


T-0563-89

GEAR BOX ASSEMBLY NO. 8-0909
CUTTING UNIT MODEL NO. 30564, 30555, 30568 & 30575

Ref. No.	Part No.	Description	No. Used
1	3296-15	Nut	2
2	3-6514	Thrust Washer	2
3	26-1340	Gear – Spiral Bevel	1
4	18-6430	Square Key	2
5	26-1350	Shim .002 Thick Red	A/R
6	26-1360	Shim .005 Thick Blue	A/R
7	26-1370	Shim .015 Thick Pink	A/R
8	33-2040	Shim .020 Thick Yellow	A/R
9	26-1290	Bearing Housing – Input	1
10	302-14	Vent Plug	1
11	253-137	Oil Seal	2
12	26-1310	Shaft – Input	1

Ref. No.	Part No.	Description	No. Used
13	3274-7	Capscrew Socket Head	5
14	3253-21	Lockwasher	5
15	237-97	O-Ring	2
16	254-90	Bearing Cup	4
17	254-91	Bearing Cone	4
18	26-1320	Shaft – Output	1
19	26-1380	Bearing Housing – Output	1
20	26-1330	Pinion Spiral	1
21	26-1270	Gear Box	1
22	281-11	Pipe Plug Sq. Hd.	1

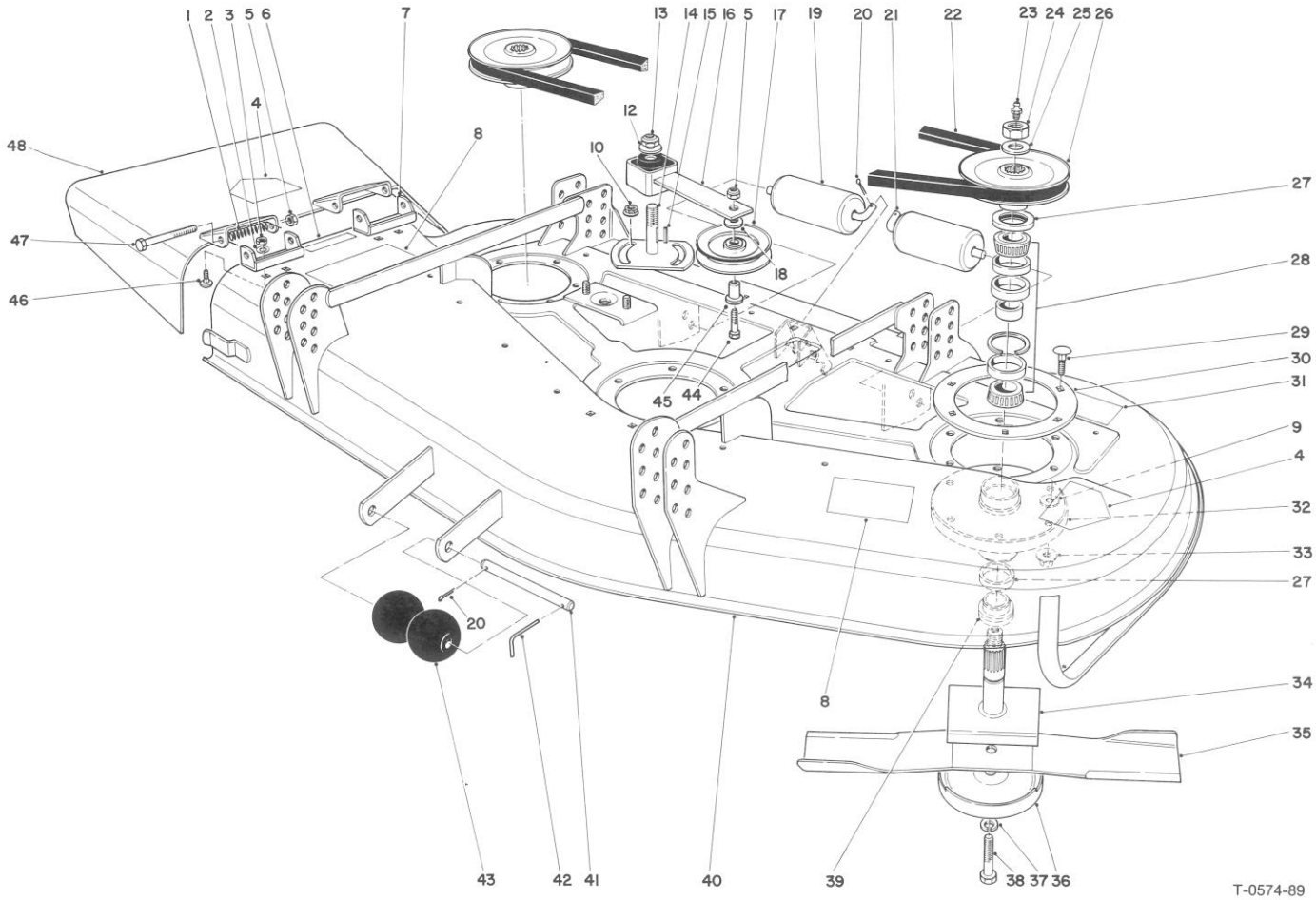


T-0635-89

WHEEL WEIGHT KIT MODEL NO. 30762 (Optional)

Ref. No.	Part No.	Description	No. Used
1	3231-24	Carriage Bolt	4
2	3296-26	Nut	4
3	3256-24	Washer	4
4†		Wheel Weight	2

†Order Replacement Kit Model No. 30762

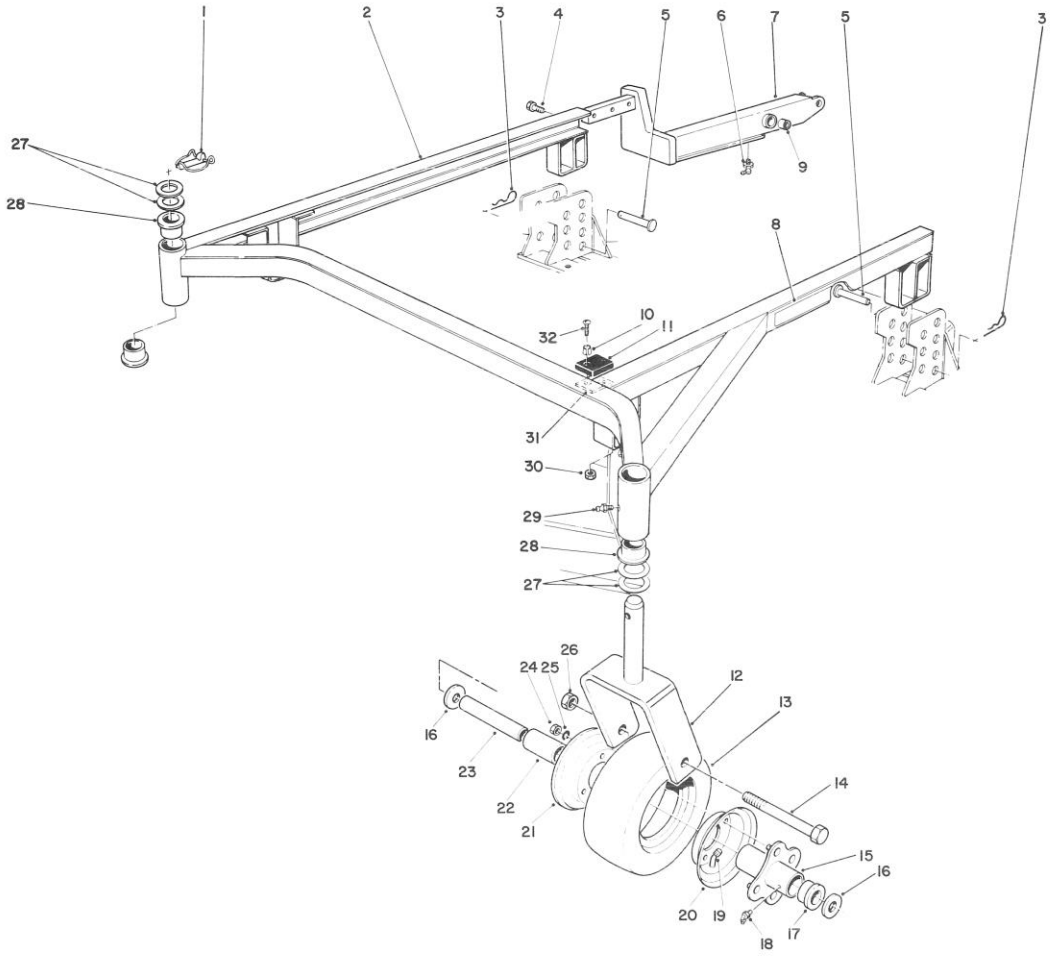


CUTTING UNIT MODEL NO. 30555

Ref. No.	Part No.	Description	No. Used
1	40-6230	Spring — Torsion	2
2	3253-4	Lockwasher	4
3	3217-6	Nut	4
4	43-8480	Decal — Danger	2
5	3296-5	Locknut	3
6	66-6380	Decal — Deflector Missing	1
7	29-5590	Pivot Bracket — Deflector	2
8	66-1340	Decal — Danger	2
9	3256-24	Washer — Flat	18
10	3290-357	Nut — Lock	2
12	3256-27	Washer — Flat	1
13	3296-33	Locknut	1
14	28-9060	Plate — Idler	1
15	5-1077	Key Square	1
16	27-8580	Idler Socket	1
17	65-5940	Pulley — Idler	1
18	7-0081	Washer — Special	1
19	36-1740	Roller — Deck	2
20	3272-11	Cotter Pin	3
21	40-0340	Shaft — Rear Roller	2
22	27-1160	V-Belt	1
23	302-2	Grease Fitting	3
24	32146-20	Locknut	3
25	7-4150	Washer	3
26	27-0970	Pulley	3

Ref. No.	Part No.	Description	No. Used
27	253-139	Seal — Wave	6
28	46-8530	Bearing Assembly	3
29	3231-22	Carriage Bolt	18
30	27-7680	Ring — Deck Support	3
31	43-8480	Decal — Blade Bolt Torque	1
32	61-4160	Spindle Housing	3
33	32128-21	Locknut — Flange	18
34	27-0920	Spindle Shaft	3
35	27-0990	Blade	3
36	27-1000	Anti-Scalp Cup	3
37	3253-27	Lockwasher	3
38	44-2200	Screw — Blade Bolt	3
39	27-0950	Spacer — Spindle Bearing	3
40	40-0020	Cutting Deck	1
41	40-6400	Shaft — Roller	1
42	57-0690	Cotter Pin — Special	1
43	29-4820	Roller	2
44	3211-8	Capscrew	1
45	65-5950	Bushing — Pulley	1
46	3230-20	Carriage Bolt	4
47	3211-15	Capscrew	2
48	40-6200	Grass Deflector	1
*	44-5480	Blade — High Sail (Optional)	3
*	27-0870	Spindle Assembly (Incl. Ref. #23-28, 32, 34 & 39)	3

*Not Illustrated



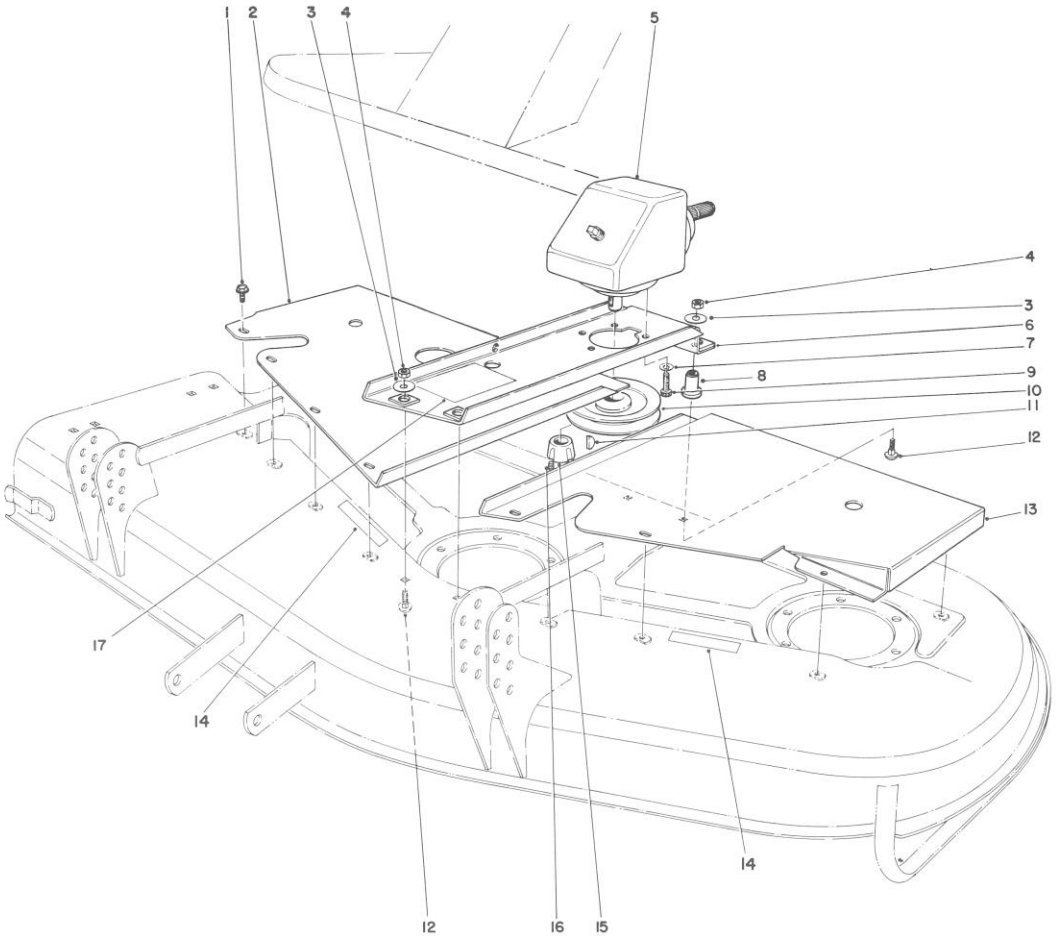
T-0629-89

CUTTING UNIT MODEL NO. 30555 (Continued)

Ref. No.	Part No.	Description	No. Used
1	3290-384	Lynch Pin	2
2	67-2110	Frame — Deck Suspension (Incl. Ref. #28)	1
3	3290-355	Pin — Hair	4
4	325-7	Hex Hd. Capscrew	6
5	283-55	Pin Clevis	4
6	302-40	Grease Fitting	2
7	67-1910	Lift Arm — R.H.	1
*	67-1920	Lift Arm — L.H.	1
8	68-8360	Decal — H.O.C.	1
9	256-101	Bushing	4
10	40-9520	Spacer — Split	4
11	40-0330	Cushion — Rubber	2
12	68-8900	Front Castor Fork	2
13	68-8960	Tire	2
14	325-19	Screw — Cap Hex Hd.	2
15	68-8940	Hub — Center	2
16	3256-6	Thrust Washer	4
17	62-5580	Bushing	4

Ref. No.	Part No.	Description	No. Used
18	302-61	Fitting — Grease	2
19	68-8950	Tube w/Valve	2
20	68-8920	Wheel Half — Female	2
21	68-8930	Wheel Half — Male	2
22	62-5570	Roller Bearing	2
23	68-8980	Spanner Bushing	2
24	3217-6	Hex Nut	8
25	3253-4	Lockwasher	8
26	32153-5	Nut — Lock	2
27	3-6781	Washer — Thrust	8
28	28-9290	Bushing — Special	4
29	302-5	Grease — Fitting	2
30	3296-2	Locknut	4
31	42-6200	Shim Cushion	A/R
32	32122-28	Machine Screw Truss Head	4
*	13-3869	Castor Wheel Assembly (Incl. Ref. #13, 15, 17-22, & 24-25)	2

*Not Illustrated

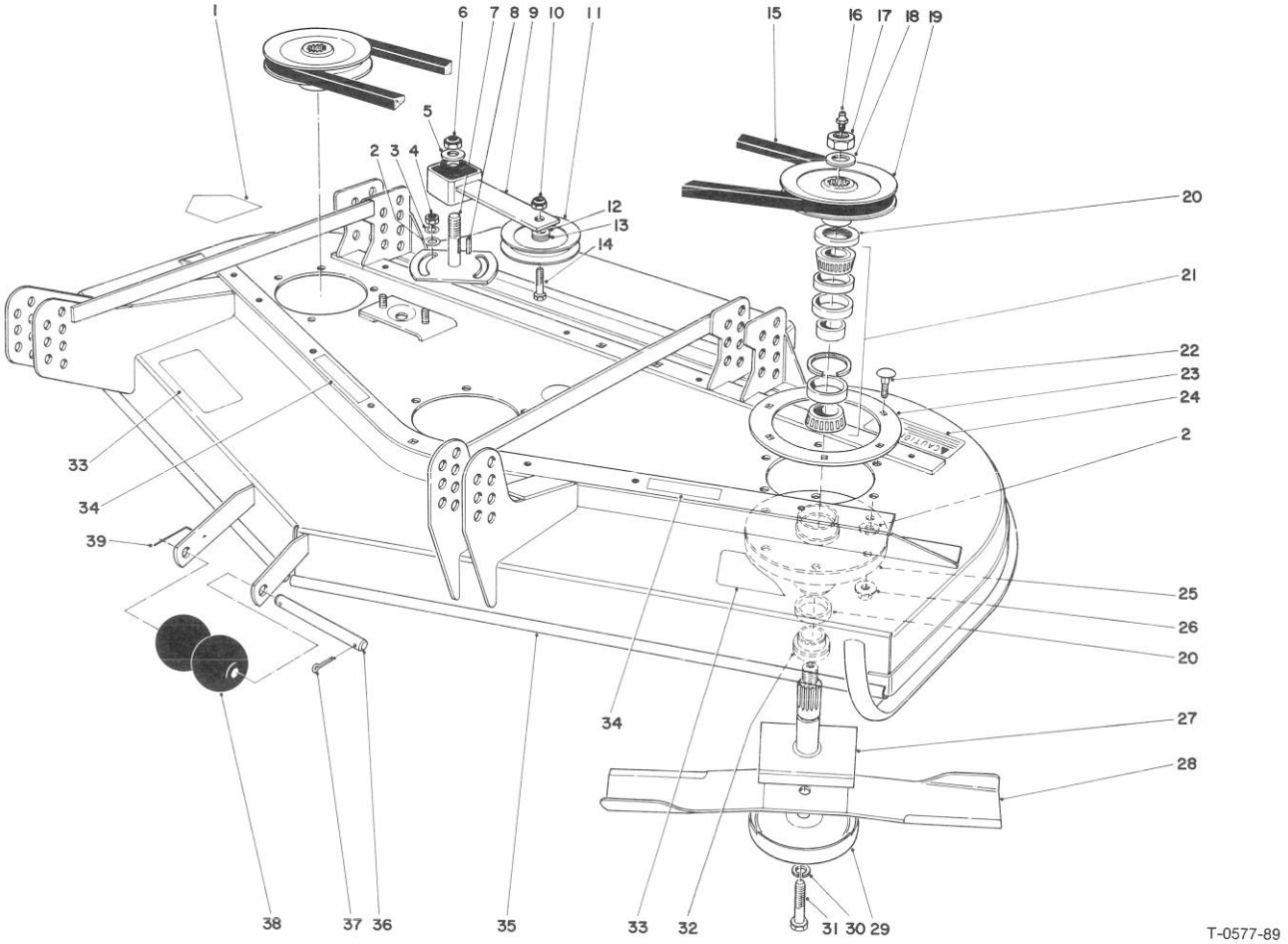


T-0576-89

CUTTING UNIT MODEL NO. 30555 (Continued)

Ref. No.	Part No.	Description	No. Used
1	46-8560	Self Tapping Screw Hex Hd. w/Locking Flange	11
2	40-0410	Cover R.H.	1
3	63-8410	Lockwasher	4
4	32153-2	Nut	4
5	8-0909	Gear Box Assembly	1
6	63-9760	Base — Gear Box	1
7	3253-21	Lockwasher	5
8	63-9750	ISO Mount — Gear Box	4
9	3274-1	Capscrew — Socket Hd.	5

Ref. No.	Part No.	Description	No. Used
10	63-9900	Pulley — Gear Box	1
11	3257-5	Key Woodruff	1
12	3231-26	Carriage Bolt	4
13	40-0390	Cover L.H.	1
14	67-5360	Decal — Shield Missing	2
15	27-6140	Bushing — Taper Lock (Incl. Ref. #16)	1
16	3245-9	Set Screw — Socket Hd.	1
17	51-3960	Decal — 52"	1

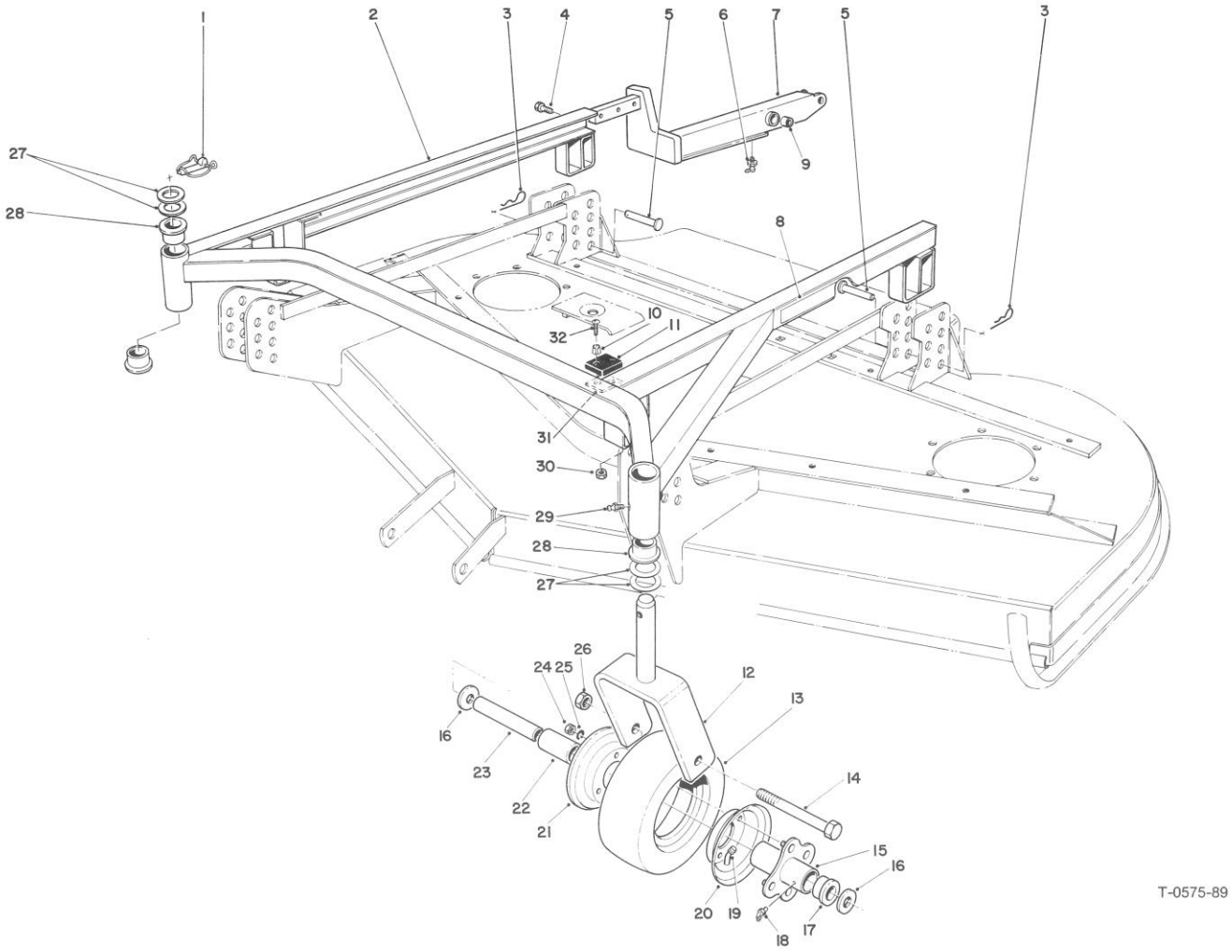


CUTTING UNIT MODEL NO. 30568

Ref. No.	Part No.	Description	No. Used
1	43-8480	Decal — Danger	1
2	3256-24	Washer — Plain	20
3	3253-31	Washer — Lock	2
4	3218-3	Nut — Jam	2
5	3256-27	Washer — Plain	1
6	3296-33	Nut — Lock	1
7	28-9060	Plate — Idler	1
8	5-1077	Key Square	1
9	27-8580	Idler Socket	1
10	3296-5	Nut — Lock	1
11	65-5940	Pulley — Idler	1
12	7-0081	Washer	1
13	65-5950	Bushing	1
14	3211-8	Screw — Cap Hex Hd.	1
15	27-1160	V-Belt	1
16	302-2	Grease Fitting	3
17	32146-20	Nut — Hex Lock Jam	3
18	7-4150	Washer	3
19	27-0970	Pulley	3
20	253-139	Seal — Wave	6

Ref. No.	Part No.	Description	No. Used
21	46-8530	Bearing Assembly	3
22	3231-22	Bolt — Carriage	18
23	27-7680	Ring Deck Support	2
24	68-8340	Decal — Blade Bolt Torque	1
25	61-4160	Housing — Spindle	3
26	32128-21	Nut — Locking Flange	18
27	27-0920	Spindle Shaft	3
28	27-0990	Blade	3
29	27-1000	Cup — Anti Scalp	3
30	3253-27	Washer — Lock	3
31	44-2200	Screw — Blade	3
32	27-0950	Spacer — Spindle Bearing	3
33	66-1340	Decal — Danger	2
34	67-5360	Decal — Shield Missing	2
35	42-4650	Cutting Deck	1
36	40-6400	Shaft — Roller	1
37	3272-11	Pin — Cotter	1
38	29-4820	Roller	2
39	57-0690	Cotter Pin Special	1
*	27-0870	Spindle Assembly (Incl. Ref. #16-21, 25, 27, 32)	3

*Not Illustrated



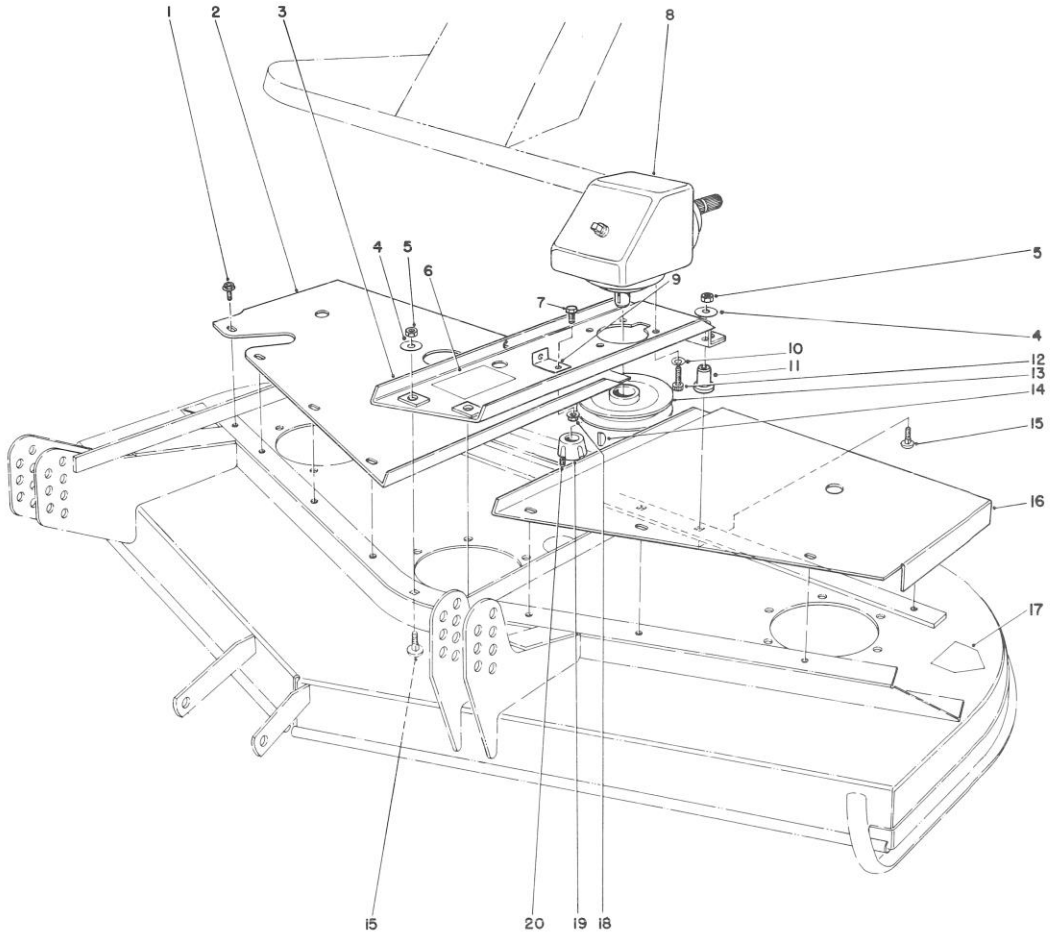
T-0575-89

CUTTING UNIT MODEL NO. 30568 (Continued)

Ref. No.	Part No.	Description	No. Used
1	3290-384	Lynch Pin	2
2	67-2110	Frame — Deck Assembly (Incl. Ref. #28)	1
3	3290-355	Pin — Hair	4
4	325-6	Hex Hd. Capscrew	6
5	283-55	Pin Clevis	4
6	302-40	Grease Fitting	2
7	67-1910	Lift Arm — R.H. (Incl. Ref. #6 & 9)	1
*	67-1920	Lift Arm — L.H. (Incl. Ref. #6 & 9)	1
8	71-2760	Decal — H.O.C.	1
9	256-101	Bushing	4
10	40-9520	Spacer — Split	4
11	40-0330	Cushion Rubber	2
12	68-8900	Front Castor Fork	2
13	68-8960	Tire	2
14	325-19	Screw — Cap. Hex. Hd.	2
15	68-8940	Hub — Center	2

Ref. No.	Part No.	Description	No. Used
16	3256-6	Thrust Washer	4
17	62-5580	Bushing	4
18	302-61	Fitting — Grease	2
19	68-8950	Tube w/Valve	2
20	68-8920	Wheel Half — Female	2
21	68-8930	Wheel Half — Male	2
22	62-5570	Roller Bearing	2
23	68-8980	Spanner Bushing	2
24	3217-6	Hex Nut	8
25	3253-4	Lockwasher	8
26	32153-5	Nut — Lock	2
27	3-6781	Washer — Thrust	8
28	28-9290	Bushing — Special	4
29	302-5	Fitting — Grease	2
30	3296-2	Nut — Lock	4
31	42-6200	Shim — Cushion	A/R
32	32122-28	Screw — Machine Truss Hd.	4
*	13-3869	Castor Wheel Assembly (Incl. Ref. #13, 15, 17-22 & 24-25)	2

*Not Illustrated

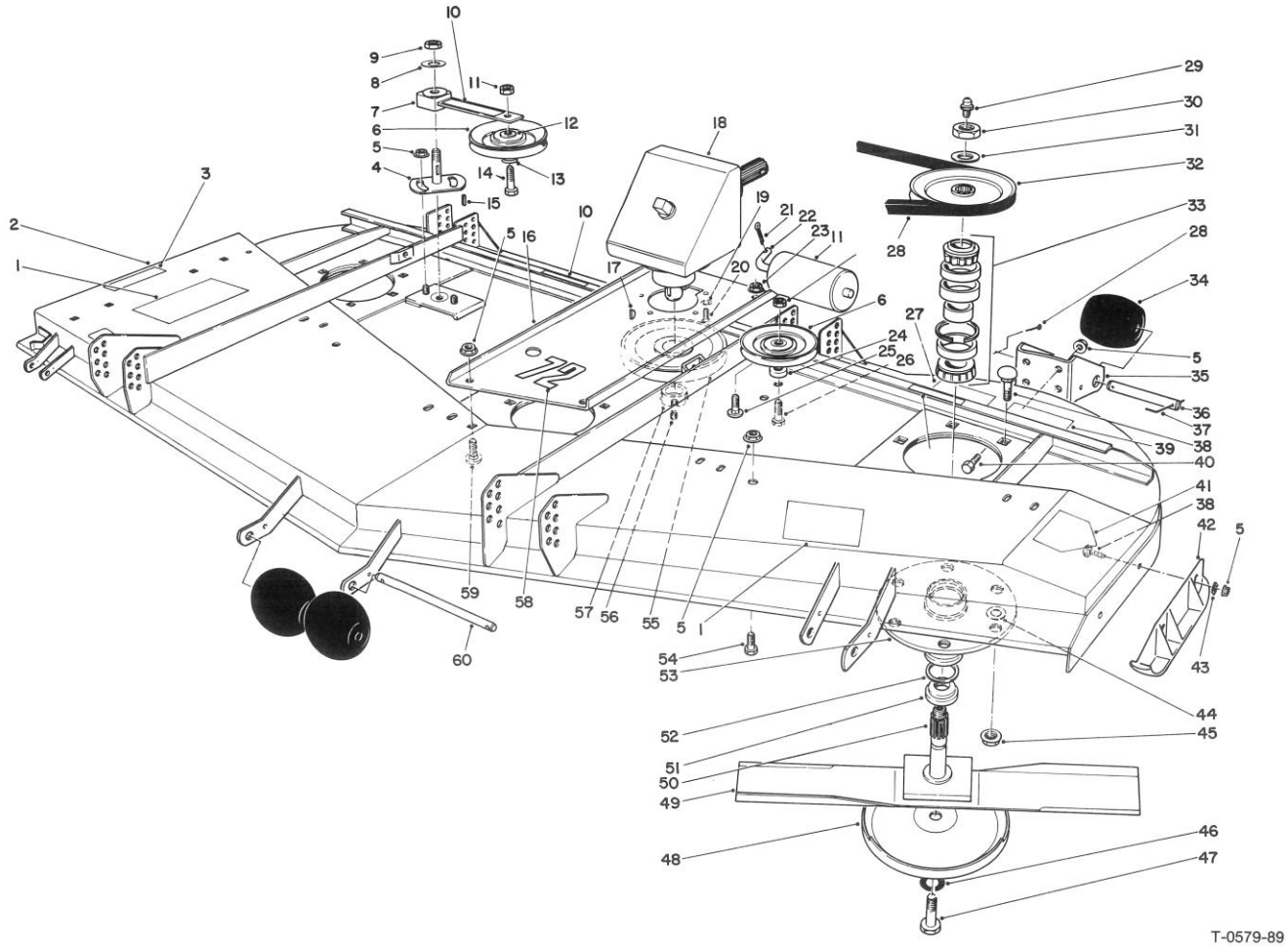


T-0578-89

CUTTING UNIT MODEL NO. 30568 (Continued)

Ref. No.	Part No.	Description	No. Used
1	46-8560	Screw Self Tapping Flange Hex. Hd.	11
2	40-0410	Cover R.H.	1
3	63-9760	Base — Gear Box	1
4	63-8410	Washer — Lock	4
5	32153-2	Nut	4
6	51-3960	Decal — "52"	1
7	322-4	Screw — Cap Hex. Hd.	2
8	8-0909	Gear Box	1
9	46-3590	Bracket — Extension	1
10	3253-21	Lockwasher	5

Ref. No.	Part No.	Description	No. Used
11	63-9750	ISO Mount — Gear Box	4
12	3274-1	Capscrew Socket Hd.	5
13	63-9900	Pulley	1
14	3257-5	Key Woodruff	1
15	3231-29	Bolt — Carriage	4
16	42-4660	Cover L.H.	1
17	43-8480	Decal — Danger	1
18	32128-20	Nut — Lock Flange Hex	2
19	27-6140	Bushing — Taper Lock (Incl. Ref. #20)	1
20	3245-9	Set Screw Socket Hd.	1

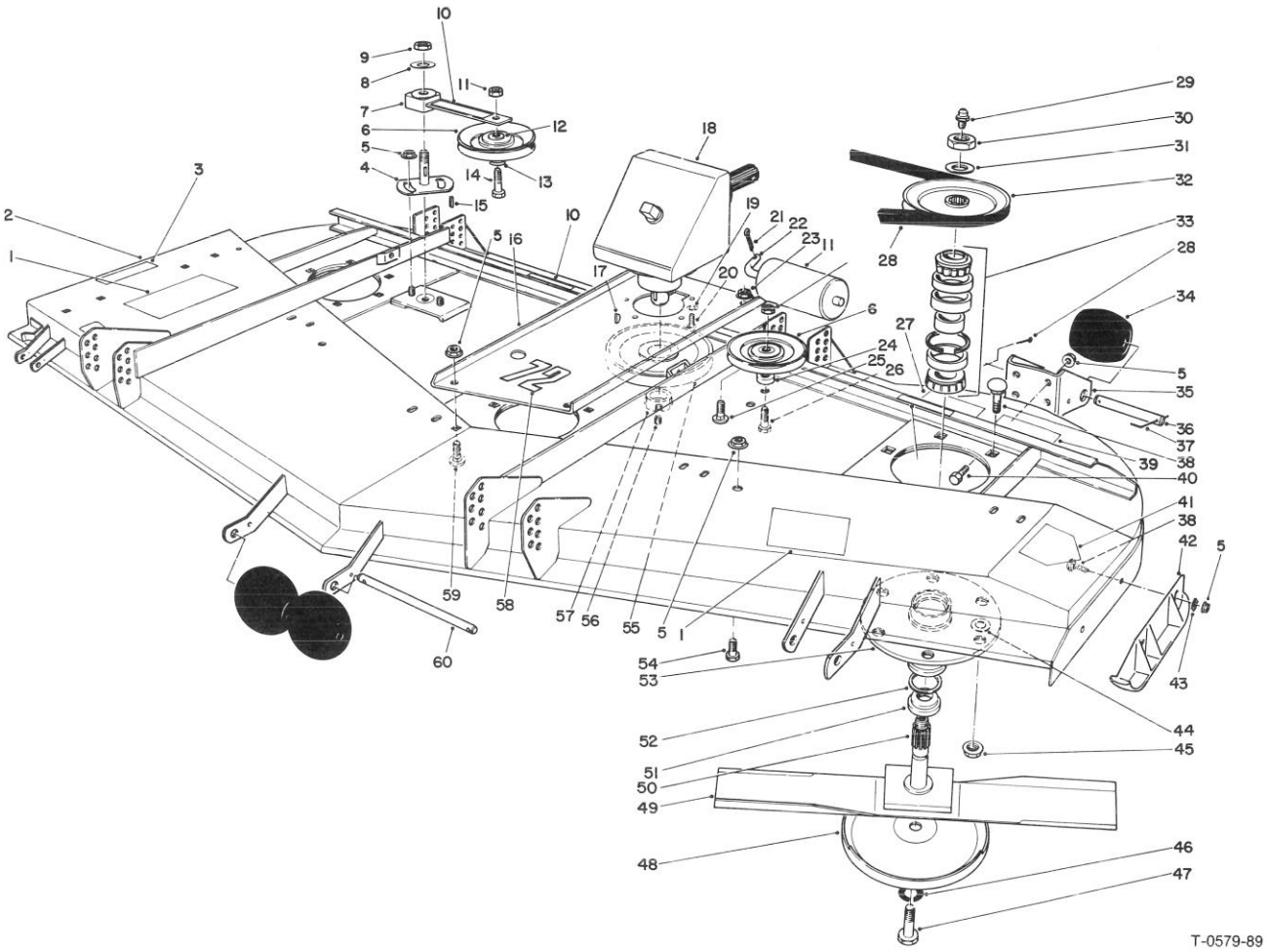


CUTTING UNIT MODEL NO. 30575

Ref. No.	Part No.	Description	No. Used
1	66-1340	Decal — Danger	2
2	57-0300	Housing	1
3	66-6380	Decal — Deflector Missing	1
4	44-6300	Idler Plate	1
5	3290-357	Nut — Lock	14
6	65-5940	Pulley — Idler	2
7	27-8580	Idler Socket & Bushing Assembly	1
8	3256-27	Washer	1
9	3296-33	Nut — Lock	1
10	67-5360	Decal — Shield Missing	3
11	3296-5	Nut — Lock	2
12	7-0081	Washer — Special	2
13	65-5950	Bushing — Pulley	2
14	3211-8	Screw — Cap Hex. Hd.	1
15	5-1077	Key Square	1
16	57-0540	Base — Gear Box	1
17	3257-5	Key — Woodruff	1
18	8-0909	Gear Box	1
19	3253-21	Washer — Lock	5
20	3274-1	Screw — Cap Socket Hd.	5
21	3272-11	Pin — Cotter	7
22	40-0340	Shaft — Rear Roller	2

Ref. No.	Part No.	Description	No. Used
23	36-1740	Roller — Deck	2
24	44-6390	Spacer	1
25	3231-27	Bolt — Carriage	2
26	3211-9	Screw — Cap Hex. Hd.	1
27	68-8340	Decal — Blade Bolt Torque	1
28	57-0240	V-Belt	1
29	302-2	Fitting Grease	3
30	32146-20	Nut — Hex Jam	3
31	7-4150	Washer	3
32	57-0560	Pulley	3
33	46-8530	Bearing Assembly	3
34	29-4820	Roller	6
35	57-0580	Bracket — Roller Left Rear	1
*	57-0590	Bracket — Roller Right Rear	1
36	57-0680	Roller Shaft	4
37	57-0690	Cotter Pin — Special	5
38	3231-22	Bolt — Carriage	20
39	68-7270	Decal — Rear Weight 70	1
40	323-7	Screw — Cap Hex. Hd.	4
41	43-8480	Decal — Danger	1
42	57-0570	Skid	1
43	3290-224	Washer — Lock	2
44	3256-24	Washer	A/R

*Not Illustrated

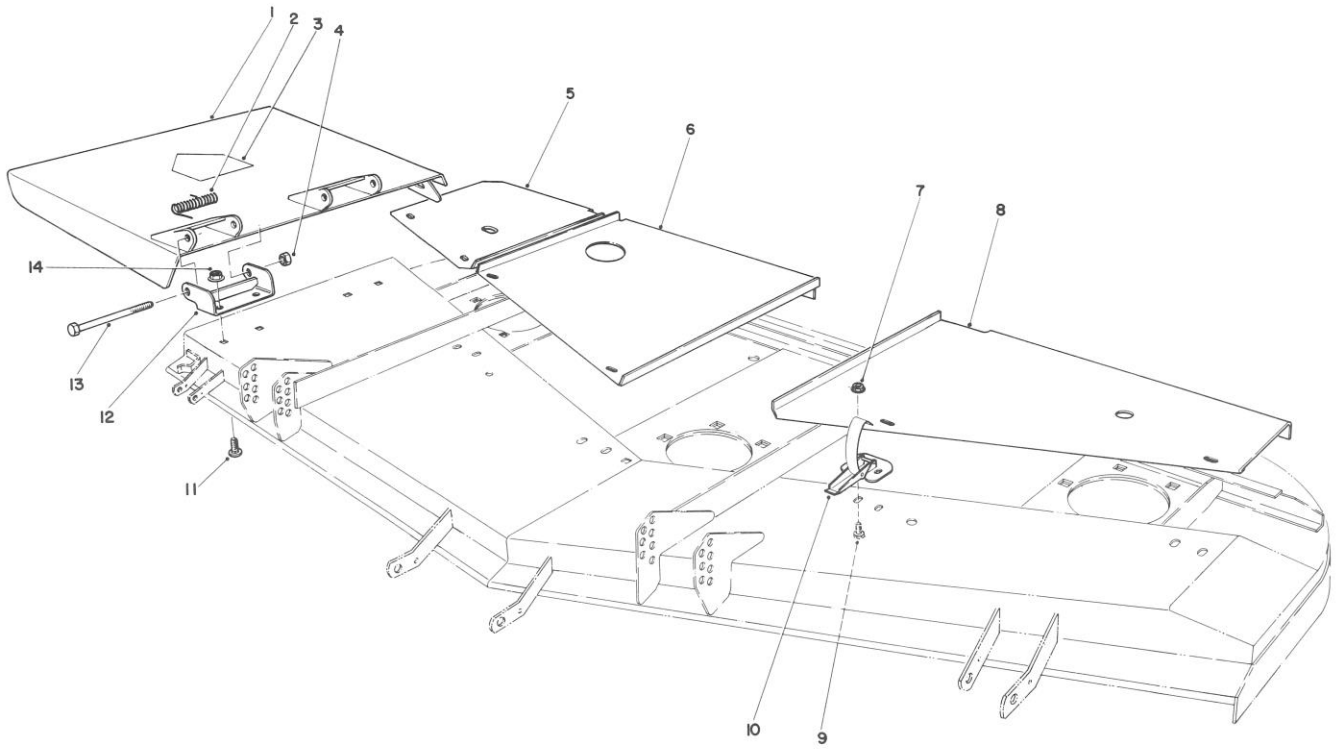


CUTTING UNIT MODEL NO. 30575 (Continued)

Ref. No.	Part No.	Description	No. Used
45	32128-21	Nut — Lock Flange	18
46	3253-27	Washer — Lock	3
47	44-2200	Capscrew Blade	3
48	27-1000	Anti-Scalp Cup	3
49	57-0250	Blade	3
50	27-0920	Spindle Shaft	3
51	27-0950	Spacer — Spindle Bearing	3
52	253-139	Seal — Wave	6
53	61-4160	Spindle Housing	3
54	323-4	Screw — Cap Hex. Hd.	2

Ref. No.	Part No.	Description	No. Used
55	27-6110	Pulley — Gear Box	1
56	3245-9	Screw — Set Socket Hd.	2
57	27-6140	Bushing Taper Lock (Incl. Ref. #56)	1
58	57-0280	Decal — 72	1
59	3231-21	Bolt — Carriage	2
60	40-6400	Shaft — Roller	1
*	57-0260	Spindle Housing Assembly (Incl. Ref. #29-33, 50-53)	3

*Not Illustrated

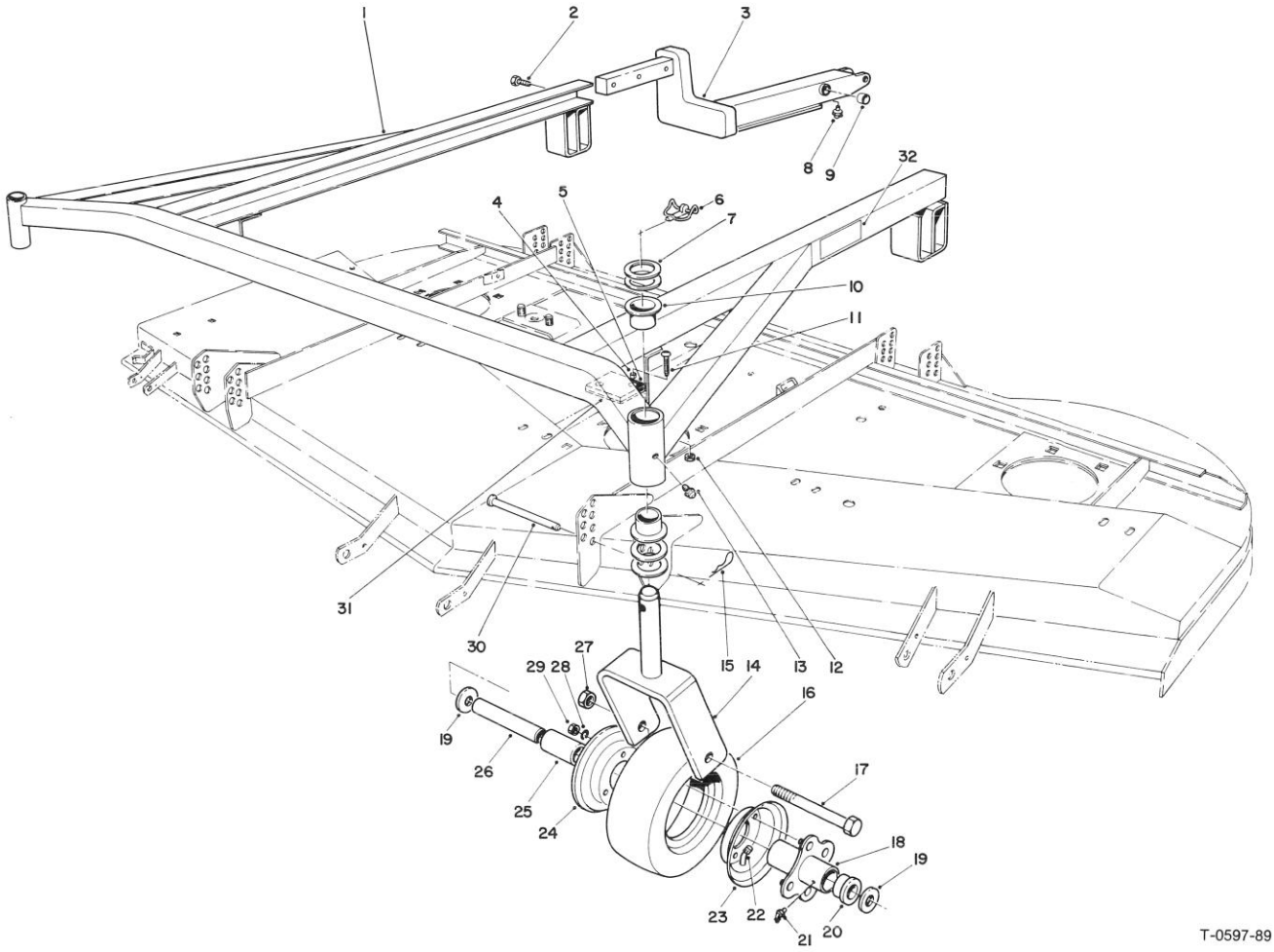


T-0589-89

CUTTING UNIT MODEL NO. 30575 (Continued)

Ref. No.	Part No.	Description	No. Used
1	52-5790	Deflector	1
2	51-1550	Spring	2
3	43-8480	Decal — Danger	1
4	32153-5	Nut — Lock	2
5	57-0230	Cover R.H.	1
6	57-0210	Cover — Center	1
7	32128-17	Nut — Lock	12

Ref. No.	Part No.	Description	No. Used
8	57-0220	Cover L.H.	1
9	3290-321	Screw — Machine Hex Slotted	12
10	249-21	Latch — Draw	6
11	3231-27	Bolt — Carriage	4
12	51-1530	Hinge Bracket	2
13	325-17	Screw — Cap Hex. Hd.	2
14	3290-357	Nut — Lock, Hex Flange	4



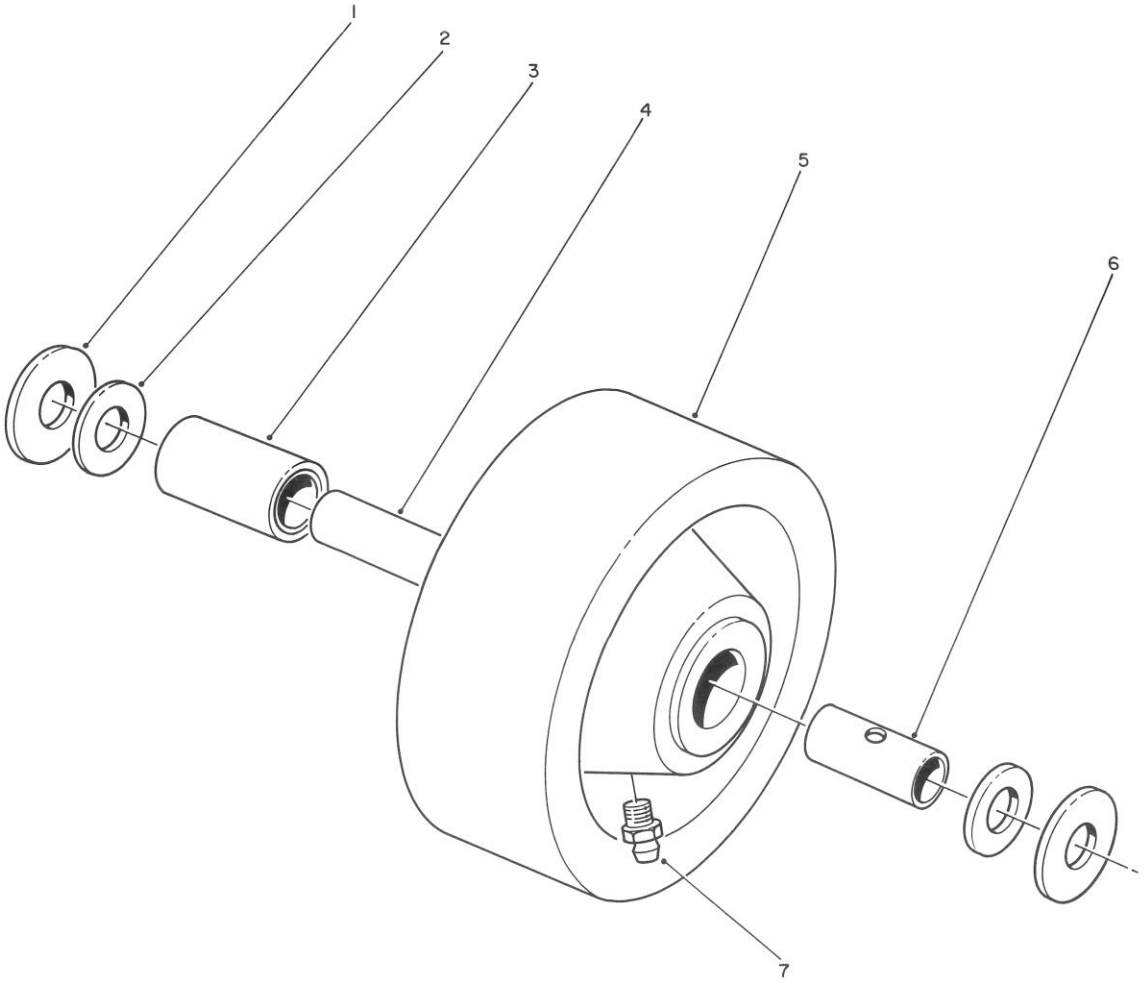
T-0597-89

CUTTING UNIT MODEL NO. 30575 (Continued)

Ref. No.	Part No.	Description	No. Used
1	68-4250	Carrier Frame (Incl. Ref. #10)	1
2	325-6	Hex Hd. Capscrew	6
3	67-1910	Lift Arm —R.H. (Incl. Ref. #8-9)	1
*	67-1920	Lift Arm —L.H. (Incl. Ref. #8-9)	1
4	40-9520	Spacer — Split	4
5	40-0330	Cushion — Rubber	2
6	3290-384	Lynch Pin	2
7	3-6781	Washer — Thrust	8
8	302-40	Fitting — Grease	2
9	256-101	Bushing	4
10	28-9290	Bushing — Special	4
11	32122-28	Screw — Machine Truss Hd.	4
12	3296-2	Nut — Lock	4
13	302-5	Grease Fitting	2
14	68-8900	Castor Fork	2
15	3290-355	Pin — Hair	4
16	68-8960	Tire	2
17	325-19	Screw — Cap Hex. Hd.	2

Ref. No.	Part No.	Description	No. Used
18	68-8940	Hub — Center	2
19	3256-6	Thrust Washer	4
20	62-5580	Bushing	4
21	302-61	Grease Fitting	2
22	68-8950	Tube w/Valve	2
23	68-8920	Wheel Half — Female	2
24	68-8930	Wheel Half — Male	2
25	62-5570	Roller Bearing	2
26	68-8980	Spanner Bushing	2
27	32153-5	Nut — Lock	2
28	3253-4	Lockwasher	8
29	3217-6	Hex Nut	8
30	283-55	Pin — Clevis	4
31	42-6200	Shim — Cushion	A/R
32	68-8360	Decal — Height Of Cut	1
*	13-3869	Castor Wheel Assembly	1
*		(Incl. Ref. #16, 18, 20-25, & 28-29)	2

*Not Illustrated



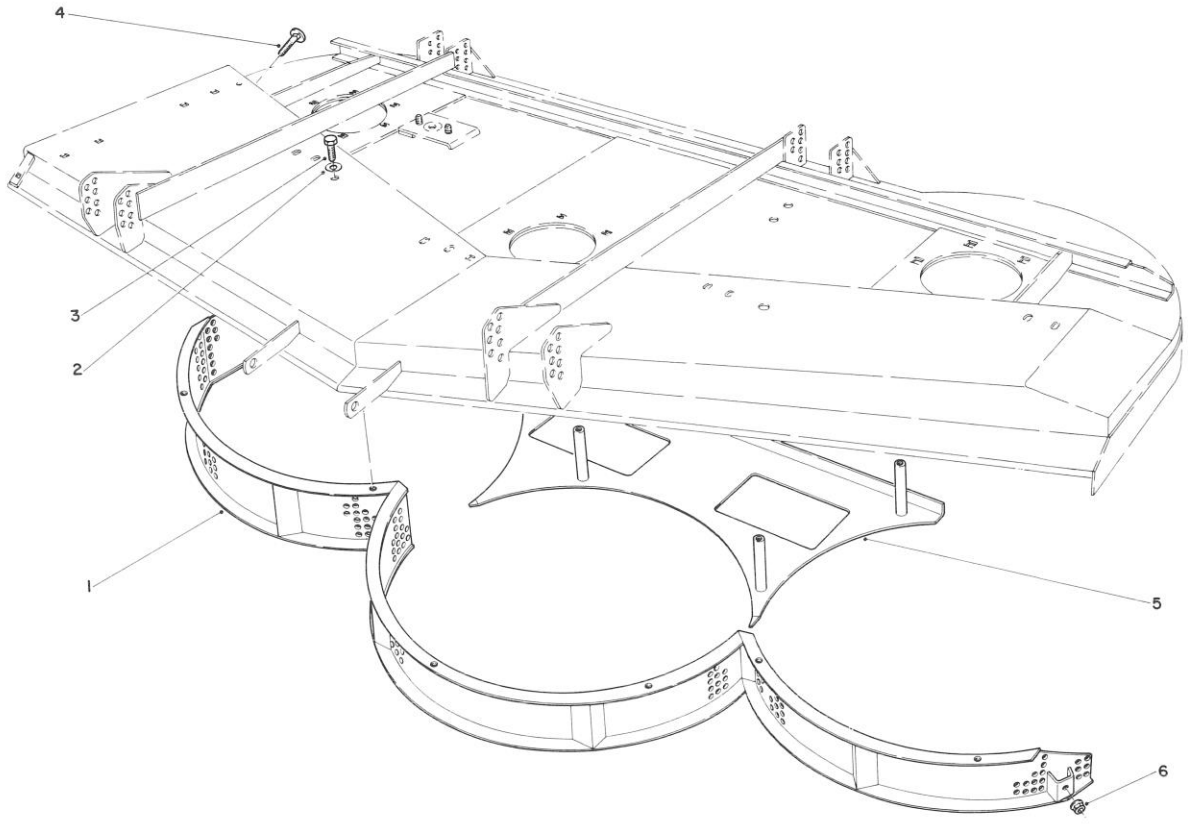
T-0633-89

PHENOLIC WHEEL ASSEMBLY NO. 27-1050 (Optional)

Ref. No.	Part No.	Description	No. Used
1	27-1170	Washer — Thrust	2
2	27-1180	Retainer — Bearing	2
3	27-1210	Bearing — Roller	1
4†	68-8980	Bushing — Spanner	1

Ref. No.	Part No.	Description	No. Used
5	27-1190	Wheel — Caster	1
6	27-1200	Bushing — Spanner	1
7	302-55	Fitting — Grease	1

†Must be ordered separately for use with 1/2" bolt.

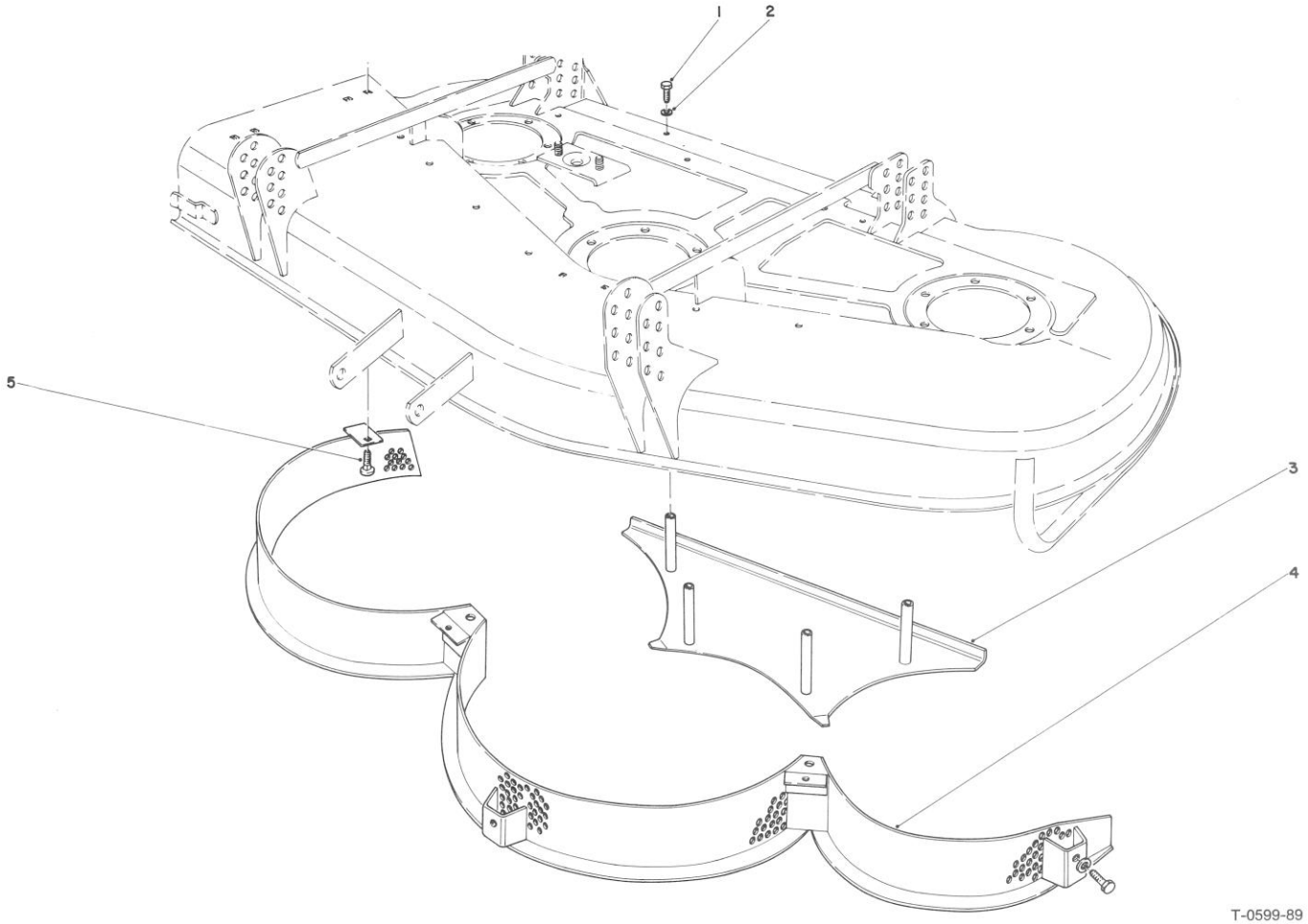


T-0598-89

MULCHER KIT MODEL NO. 30792 (Optional)
(Used With Model 30564 Cutting Unit)

Ref. No.	Part No.	Description	No. Used
1	46-3010	Mulcher Screen	1
2	3253-21	Washer – Lock	10
3	323-4	Capscrew – Hex. Hd.	11

Ref. No.	Part No.	Description	No. Used
4	3230-2	Bolt – Carriage	1
5	46-3150	Shelf – Bottom Rear	1
6	3290-357	Nut – Lock Hex Flange	6



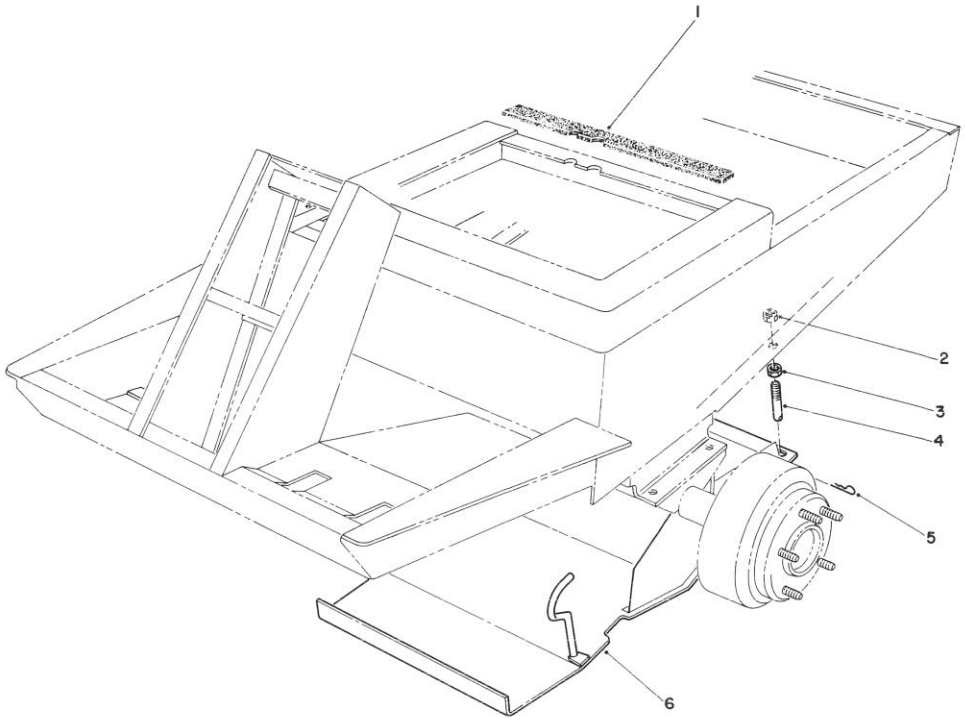
T-0599-89

MULCHER KIT MODEL NO. 30700 (Optional)

(For Cutting Unit Model 30555)

Ref. No.	Part No.	Description	No. Used
1	323-6	Capscrew	8
2	3253-21	Lockwasher	8
3	42-6340	Bottom Rear Shelf	1

Ref. No.	Part No.	Description	No. Used
4	42-6310	Mulcher Screen	1
5	3230-1	Carriage Bolt	1



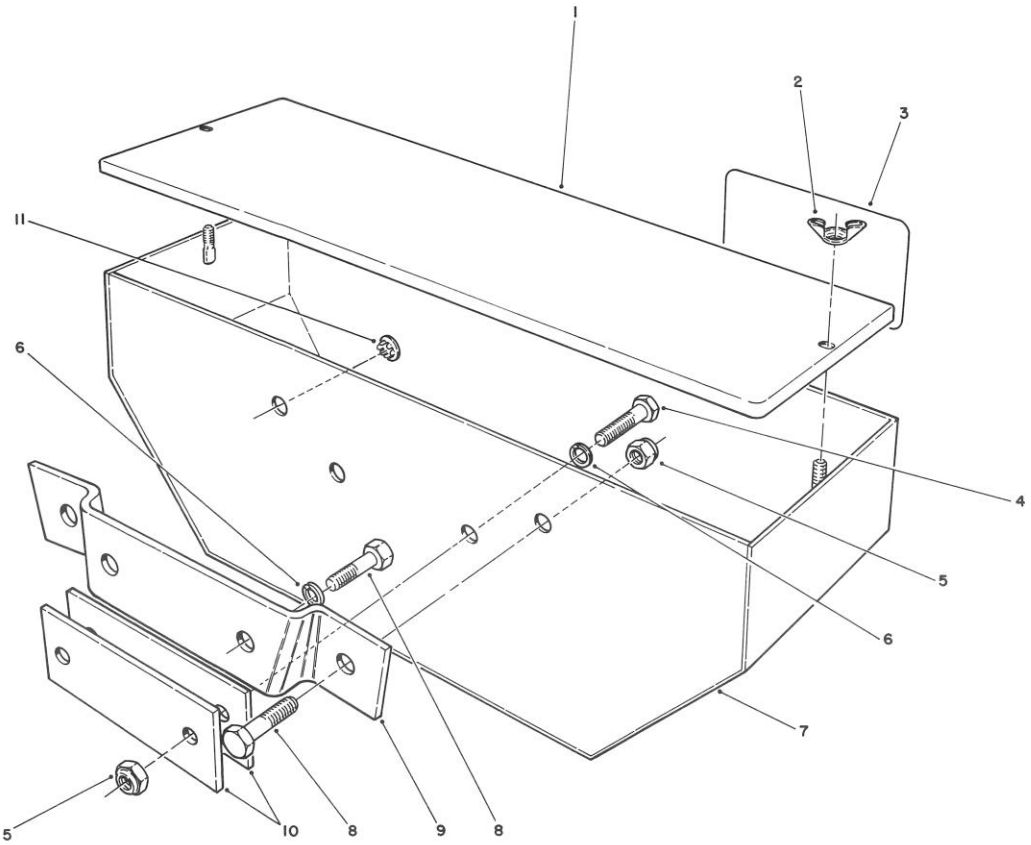
T-0193-88

TRACTOR SHIELD KIT MODEL NO. 30567

(Used With Model 30568 Rear Discharge Cutting Unit)

Ref. No.	Part No.	Description	No. Used
1	67-9580	Seal — Foam	1
2	3217-9	Hex Nut	2
3	3218-5	Hex Jam Nut	2

Ref. No.	Part No.	Description	No. Used
4	67-9590	Pin — Mounting	2
5	3290-468	Hair Pin Cotter	2
6	67-9610	Shield Assembly	1

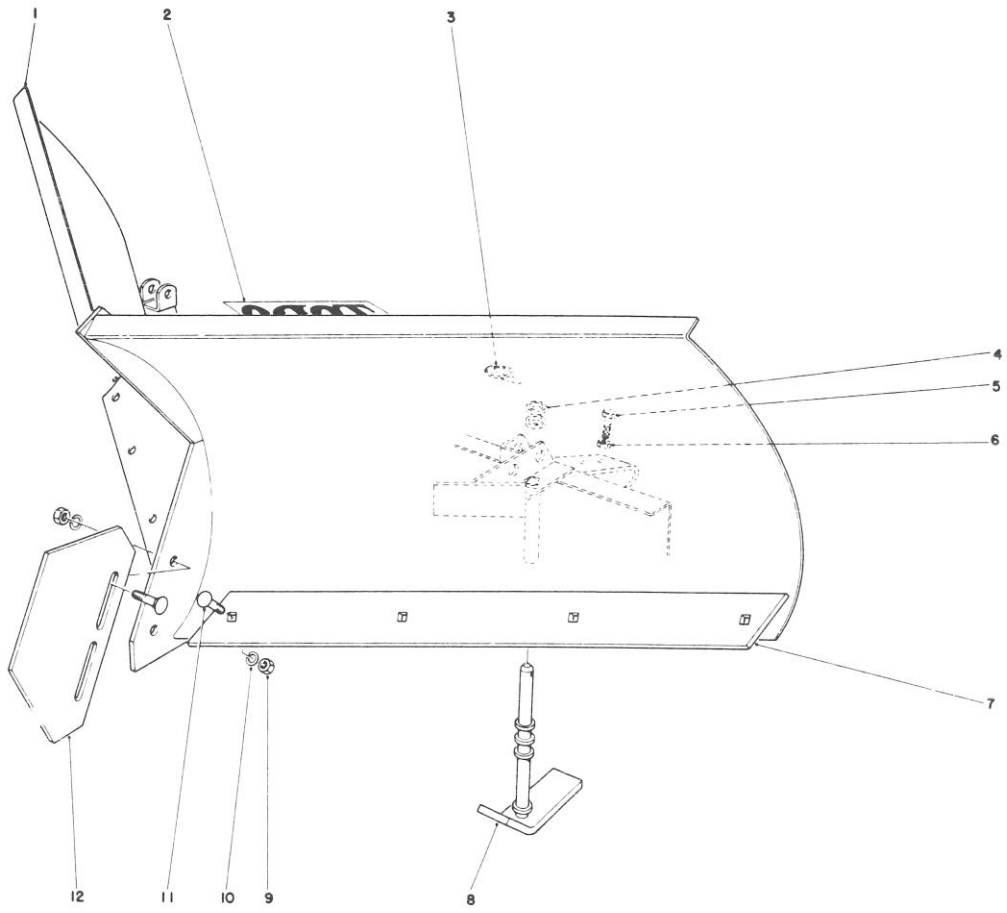


T-0404-89

WEIGHT BOX KIT NO. 62-6590

Ref. No.	Part No.	Description	No. Used
1	61-4130	Cover — Weight Box	1
2	32103-2	Nut — Wing	2
3	43-5110	Decal	1
4	325-7	Capscrew (GM-220, 322D & 327)	2
5	3296-25	Locknut (GM-220 Only)	4
5	3296-25	Locknut (GM-117, 217-D, 220 & 322D)	2
6	3253-7	Lockwasher (GM-117, 217-D & 327)	2

Ref. No.	Part No.	Description	No. Used
7	41-4090	Weight Box	1
8	325-5	Capscrew (GM-117, 217-D & 220)	4
9	61-4140	Bracket (GM-117, 217-D & & 220)	1
10	62-6710	Plate (GM-322D, 327)	2
11	2410-67	Plug	2

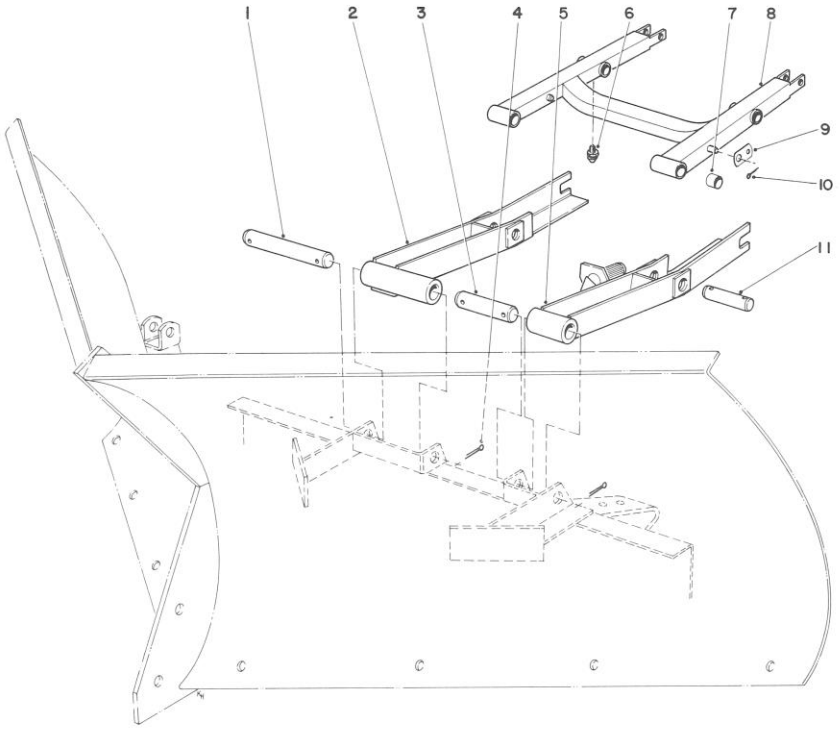


T-0452-89

V-PLOW MODEL NO. 30750 (Optional)

Ref. No.	Part No.	Description	No. Used
1	23-9960	V-Plow	1
2	66-6140	Decal	1
3	3290-243	Lynch Pin	2
4	20-4370	Spacer Tubes	10
5	325-6	Capscrew	1
6	3218-5	Jam Nut	1

Ref. No.	Part No.	Description	No. Used
7	24-5570	Scraper Blade	2
8	24-5540	Skid	2
9	3217-9	Nut	10
10	3253-7	Lockwasher	10
11	3233-2	Carriage Bolt	10
12	24-5530	Nose Skid	1



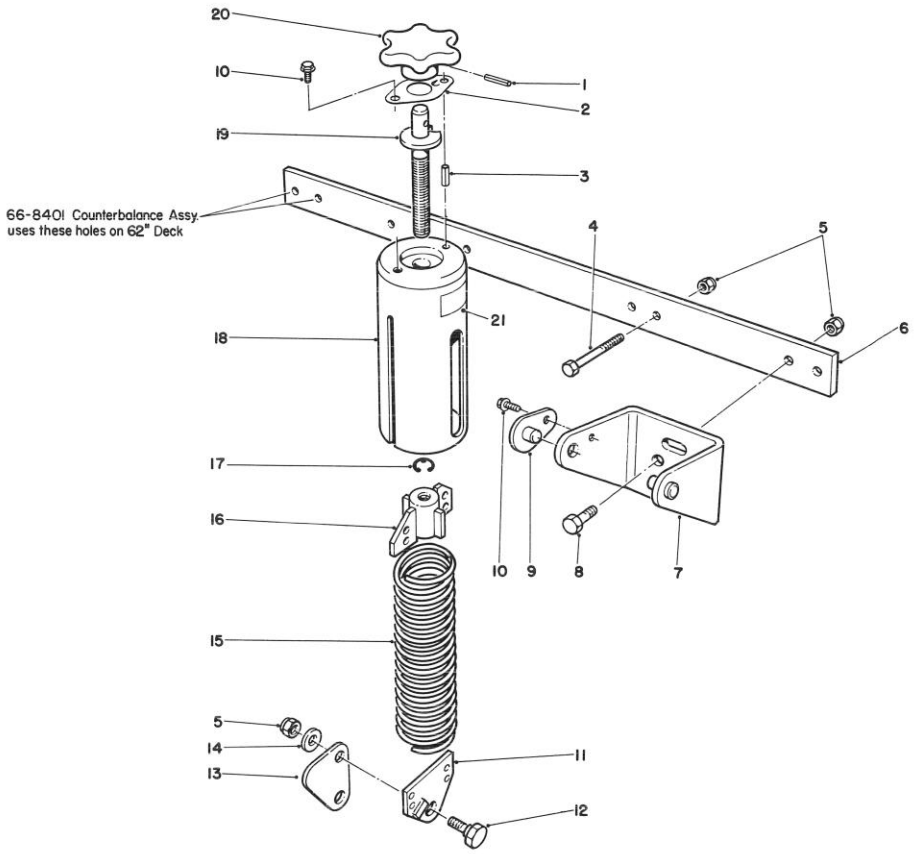
T-0631-89

V-PLOW INSTALLATION KIT MODEL NO. 30755 (Optional)

Ref. No.	Part No.	Description	No. Used
1	28-5490	Pin R.H.	1
2	28-5510	Push Arm R.H.	1
3	25-1350	Pin L.H.	1
4	3272-23	Cotter Pin	8
5	28-5500	Push Arm L.H.	1
6	302-53	Grease Fitting	2

Ref. No.	Part No.	Description	No. Used
7	256-101	Bushing	8
8†	27-4270	Lift Arm (Incl. Ref. #6 & 7)	1
9†	27-5270	Strap Brake Spring	2
10†	3272-12	Cotter Pin	2
11	28-6460	Pin	2
*‡	28-5470	Tire Chains	1

†Parts must be ordered separately for mounting V-Plow on Model No. 30790.
*Not Illustrated.
‡Optional Equipment.



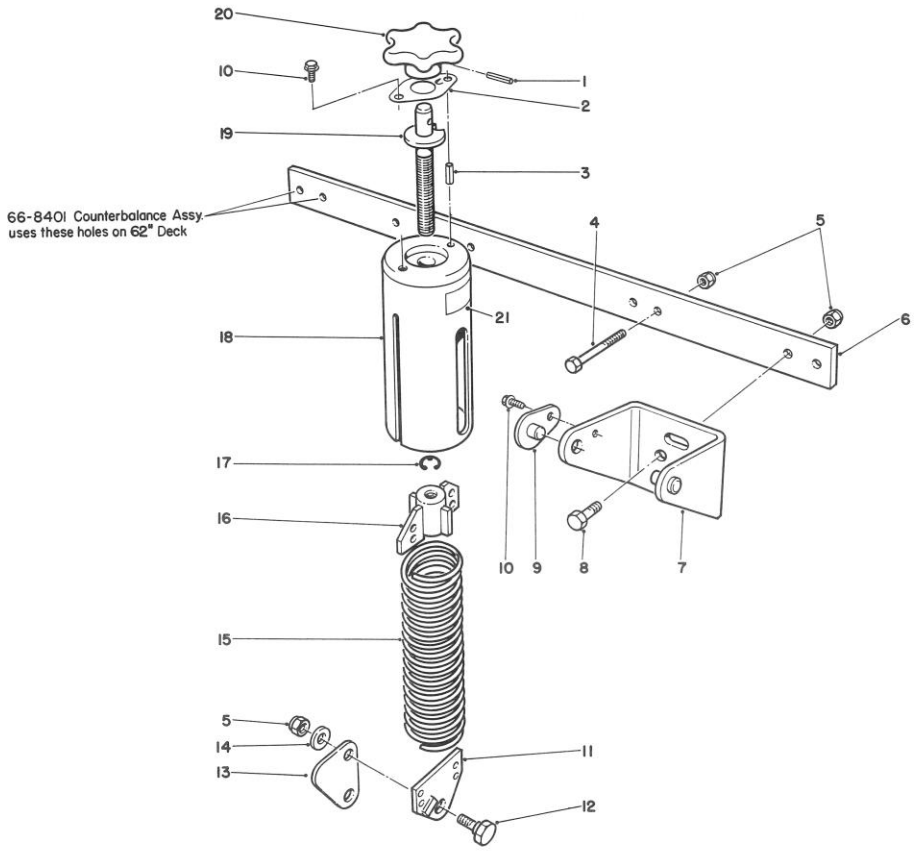
T-0600-89

52" WEIGHT TRANSFER MODEL NO. 30702

Ref. No.	Part No.	Description	No. Used
1	32121-12	Roll Pin	1
2	66-8330	Spring — Detent	1
3	32121-13	Roll Pin	1
4	323-11	Screw — Cap Hex Hd.	2
5	3296-39	Nut — Hex	4
6†**	66-8210	Adapter	—
7†	66-8220	Bracket	—
*	66-8470	Bracket	1
8	323-6	Screw — Cap Hex Hd.	—
9	66-8250	Lockpin	1
10	12-3270	Screw — Self-Tap	1
11	66-8420	Spring End	1
12	46-3380	Bolt — Shoulder	2
13	66-8450	Link — Knee	1

Ref. No.	Part No.	Description	No. Used
*†	66-8440	Link — Knee	—
14	3256-24	Washer — Flat	2
15	66-8390	Spring — Heavy Duty	1
*†	66-8410	Spring — Light Duty	—
16	66-8340	Spring End	1
17	32120-47	E-Ring	1
18	66-8300	Cover Assembly	1
19	66-8270	Shaft	1
20	59-4380	Knob	1
21	55-4300	Decal — Caution	2
*	66-8400	Counterbalance Assy. (Incl. Ref. #1-3 & 11-20)	1
*†	66-8401	Counterbalance Assy. (Incl. Ref. #1-3 & 11-20)	—

*Not Illustrated
†Not used for 52" Cutting Unit
**Adapter not included. Not required for 52" weight transfer kit.



T-0600-89

62" WEIGHT TRANSFER MODEL NO. 30703

Ref. No.	Part No.	Description	No. Used
1	32121-12	Roll Pin	2
2	66-8330	Spring — Detent	2
3	32121-13	Roll Pin	2
4	323-11	Screw — Cap Hex Hd.	4
5	3296-39	Nut — Hex	12
6**	66-8210	Adapter	1
7	66-8220	Bracket	2
*†	66-8470	Bracket	—
8	323-6	Screw — Cap Hex Hd.	4
9	66-8250	Lockpin	2
10	12-3270	Screw — Self-Tap	2
11	66-8420	Spring End	2
12	46-3380	Bolt — Shoulder	4
13†	66-8450	Link — Knee	—

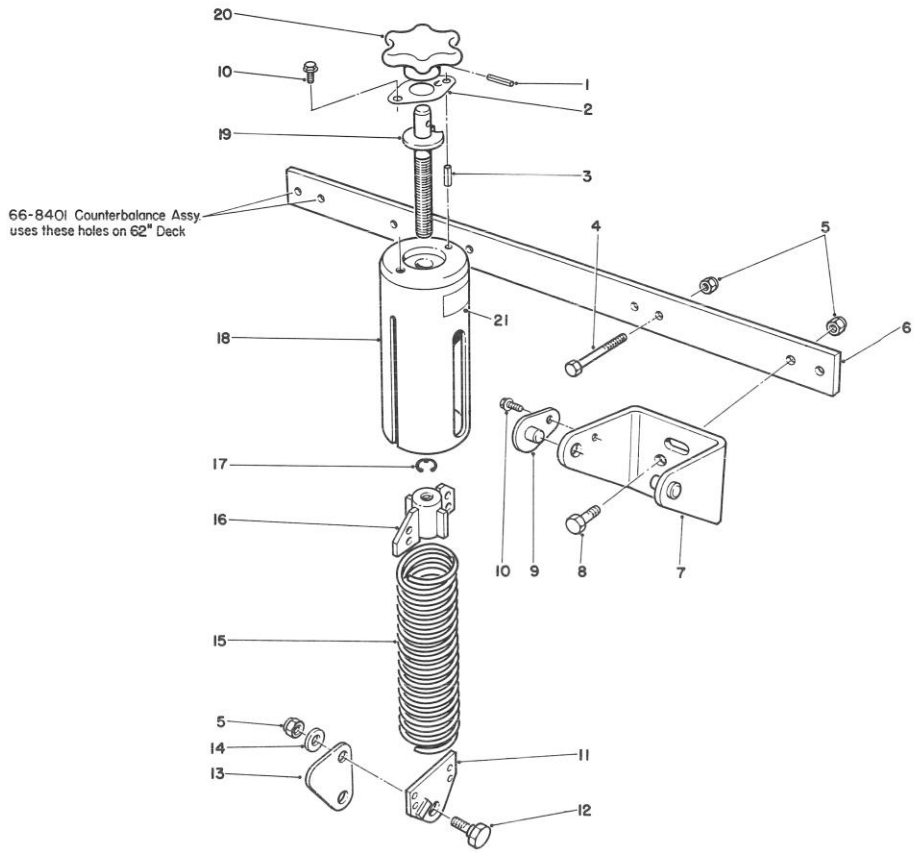
Ref. No.	Part No.	Description	No. Used
*	66-8440	Link — Knee	2
14	3256-24	Washer — Flat	4
15	66-8390	Spring — Heavy Duty	1
*††	66-8410	Spring — Light Duty	1
16	66-8340	Spring End	1
17	32120-47	E-Ring	2
18	66-8300	Cover Assembly	2
19	66-8270	Shaft	2
20	59-4380	Knob	2
21	55-4300	Decal — Caution	4
*	66-8400	Counterbalance Assy. (Incl. Ref. #1-3 & 11-20)	1
*	66-8401	Counterbalance Assy. (Incl. Ref. #1-3 & 11-20)	1

*Not Illustrated

†Not used for 62" Cutting Unit

**Not included in kit. Not required for GM220D or GM224.

††Light duty spring (66-8410) used on discharge side.



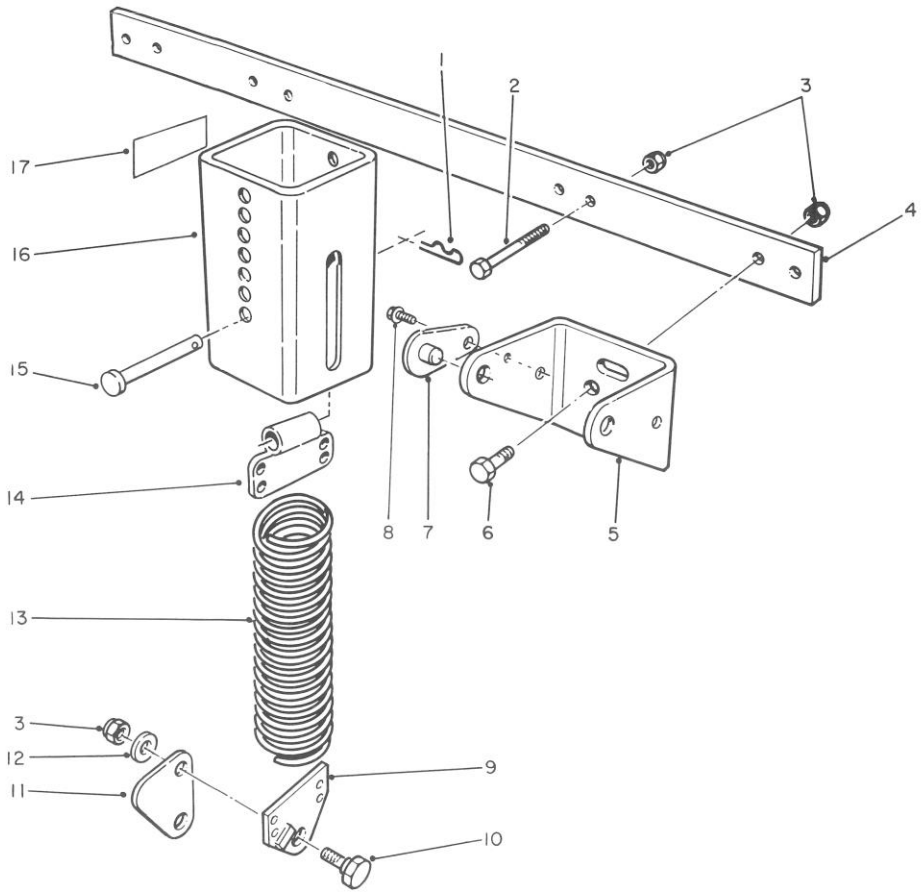
T-0600-89

72" WEIGHT TRANSFER MODEL NO. 30704

Ref. No.	Part No.	Description	No. Used
1	32121-12	Roll Pin	2
2	66-8330	Spring — Detent	2
3	32121-13	Roll Pin	2
4	323-11	Screw — Cap Hex Hd.	4
5	3296-39	Nut — Hex	12
6**	66-8210	Adapter	1
7	66-8220	Bracket	2
*†	66-8470	Bracket	—
8	323-6	Screw — Cap Hex Hd.	4
9	66-8250	Lockpin	2
10	12-3270	Screw — Self-Tap	2
11	66-8420	Spring End	2
12	46-3380	Bolt — Shoulder	4
13†	66-8450	Link — Knee	—

Ref. No.	Part No.	Description	No. Used
*	66-8440	Link — Knee	2
14	3256-24	Washer — Flat	4
15	66-8390	Spring — Heavy Duty	2
*†	66-8410	Spring — Light Duty	—
16	66-8340	Spring End	2
17	32120-47	E-Ring	2
18	66-8300	Cover Assembly	2
19	66-8270	Shaft	2
20	59-4380	Knob	2
21	55-4300	Decal — Caution	4
*	66-8400	Counterbalance Assy. (Incl. Ref. #1-3 & 11-20)	2
*†	66-8401	Counterbalance Assy. (Incl. Ref. #1-3 & 11-20)	—

*Not Illustrated
†Not used for 72" Cutting Unit
**Not included in kit. Not required for GM220D or GM224.



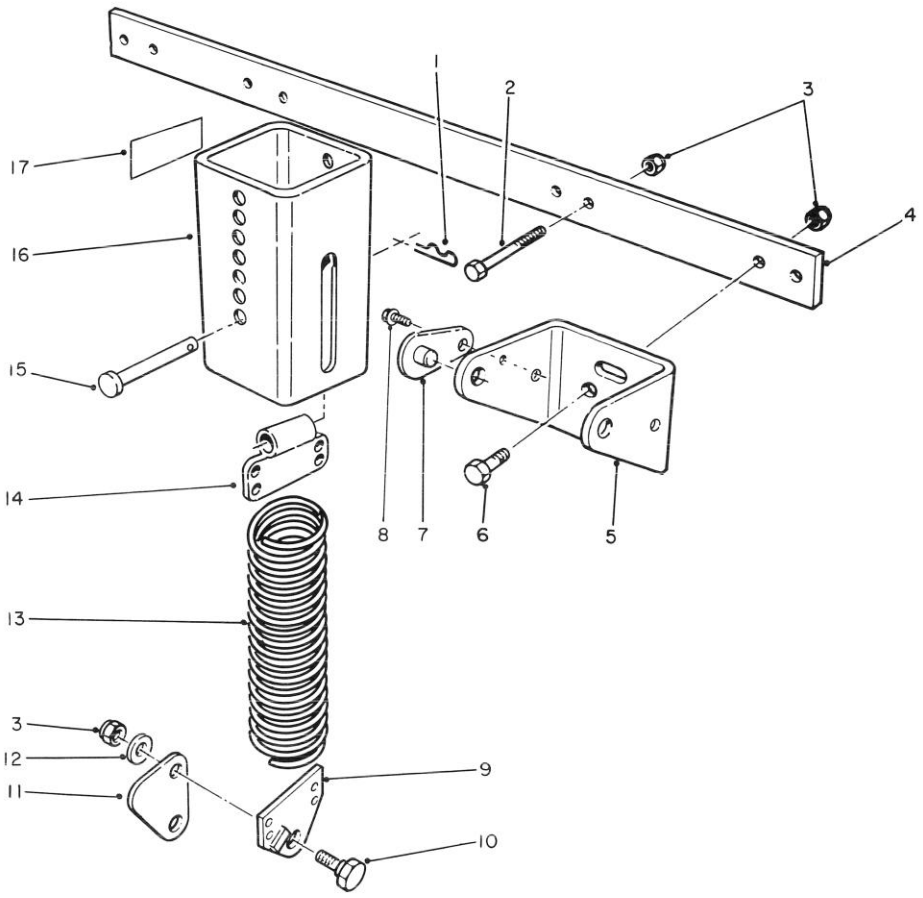
T-0632-89

52" COUNTER BALANCE KIT MODEL NO. 30712

Ref. No.	Part No.	Description	No. Used
1	3290-355	Hair Pin Cotter	1
2	323-11	Capscrew — Hex. Hd.	2
3	3296-39	Nut — Hex	4
4†	66-8210	Adapter	1
5	66-8460	Bracket — Mounting	1
6	323-6	Capscrew — Hex. Hd.	2
7	70-7920	Lock Pin Assembly	2
8	12-3270	Screw — Self Tapping	2
9	66-8420	End Spring	1

Ref. No.	Part No.	Description	No. Used
10	46-3380	Bolt — Shoulder	2
11	66-8450	Link — Knee	1
12	3256-24	Washer — Flat	2
13	66-8390	Spring — Extension	1
14	70-7940	End Spring	1
15	283-69	Pin — Clevis	1
16	70-7970	Spring Cover Assembly	1
17	55-4300	Decal Caution	2

†Not used on 52" Cutting Unit



T-0632-89

62" COUNTER BALANCE KIT MODEL NO. 30713

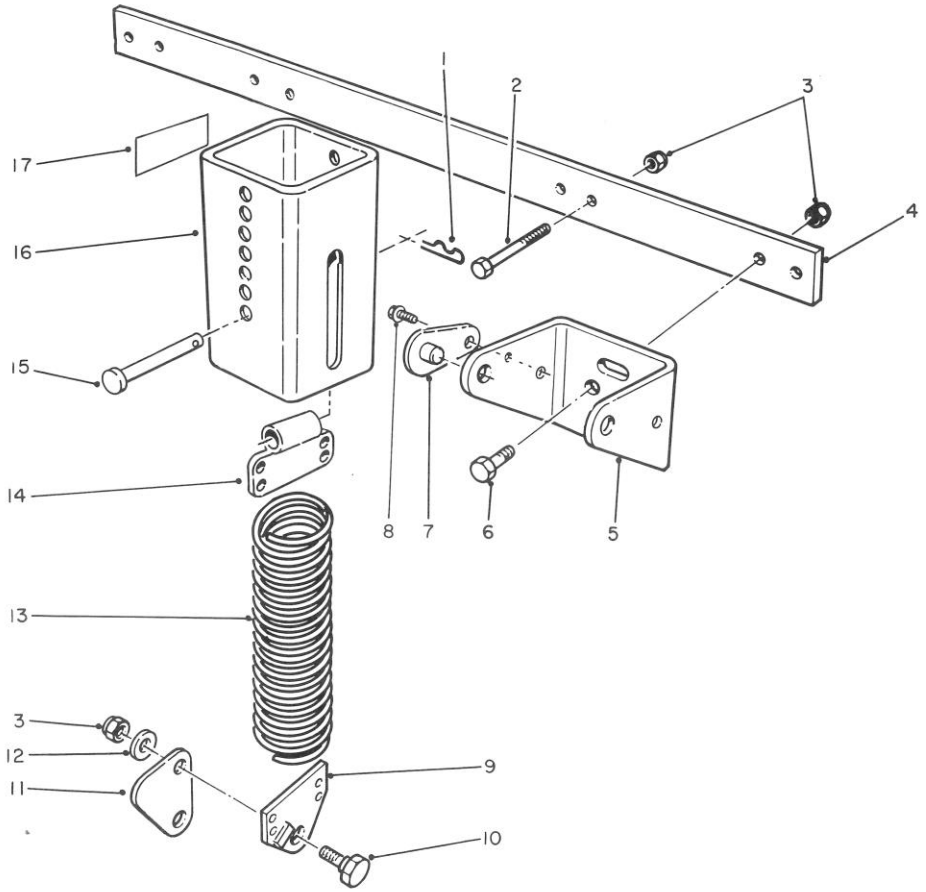
Ref. No.	Part No.	Description	No. Used
1	3290-355	Hair Pin Cotter	2
2	323-11	Capscrew — Hex. Hd.	4
3	3296-39	Nut — Hex	12
4**	66-8210	Adapter	1
5	66-8230	Bracket — Mounting	2
6	323-6	Capscrew — Hex. Hd.	4
7	70-7920	Lock Pin Assembly	4
8	12-3270	Screw — Self Tapping	4
9	66-8420	End Spring	2
10	46-3380	Bolt — Shoulder	4

Ref. No.	Part No.	Description	No. Used
11	66-8440	Link — Knee	2
12	3256-24	Washer — Flat	4
13	66-8390	Spring — Extension (Heavy Duty)	1
*†	66-8410	Spring — Extension (Light Duty)	1
14	70-7940	End Spring	2
15	283-69	Pin — Clevis	2
16	70-7970	Spring Cover Assembly	2
17	55-4300	Decal Caution	4

*Not Illustrated

†Light duty spring (66-8410) used on discharge side.

**Not included in kit. Not required for GM220D or GM224.



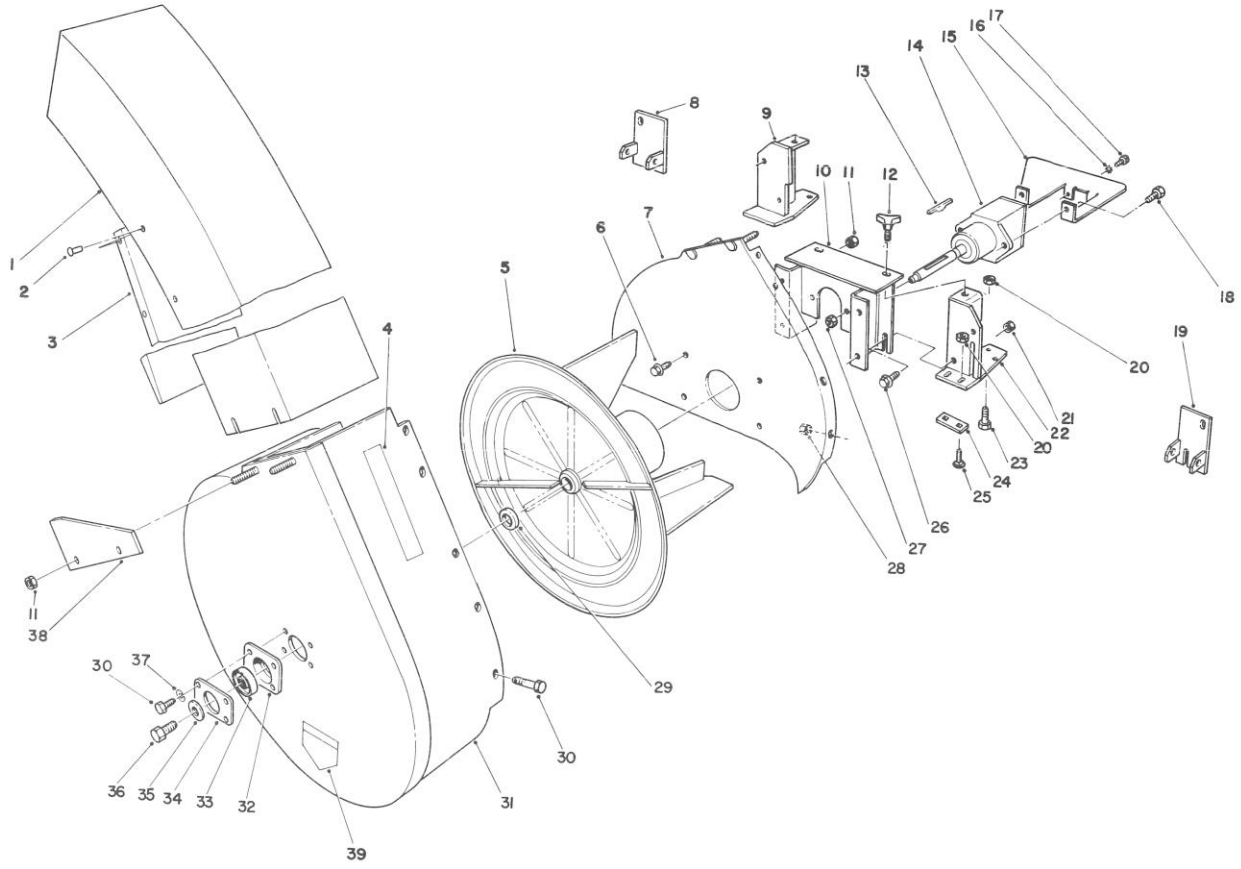
T-0632-89

72" COUNTER BALANCE KIT MODEL NO. 30714

Ref. No.	Part No.	Description	No. Used
1	3290-355	Hair Pin Cotter	2
2	323-11	Capscrew — Hex. Hd.	4
3	3296-39	Nut — Hex	12
4**	66-8210	Adapter	1
5	66-8230	Bracket — Mounting	2
6	323-6	Capscrew — Hex. Hd.	4
7	70-7920	Lock Pin Assembly	4
8	12-3270	Screw — Self Tapping	4
9	66-8420	End Spring	2

Ref. No.	Part No.	Description	No. Used
10	46-3380	Bolt — Shoulder	4
11	66-8440	Link — Knee	2
12	3256-24	Washer — Flat	4
13	66-8390	Spring — Extension	2
14	70-7940	End Spring	2
15	283-69	Pin — Clevis	2
16	70-7970	Spring Cover Assembly	2
17	55-4300	Decal Caution	4

**Not included in kit. Not required for GM220D or GM224.

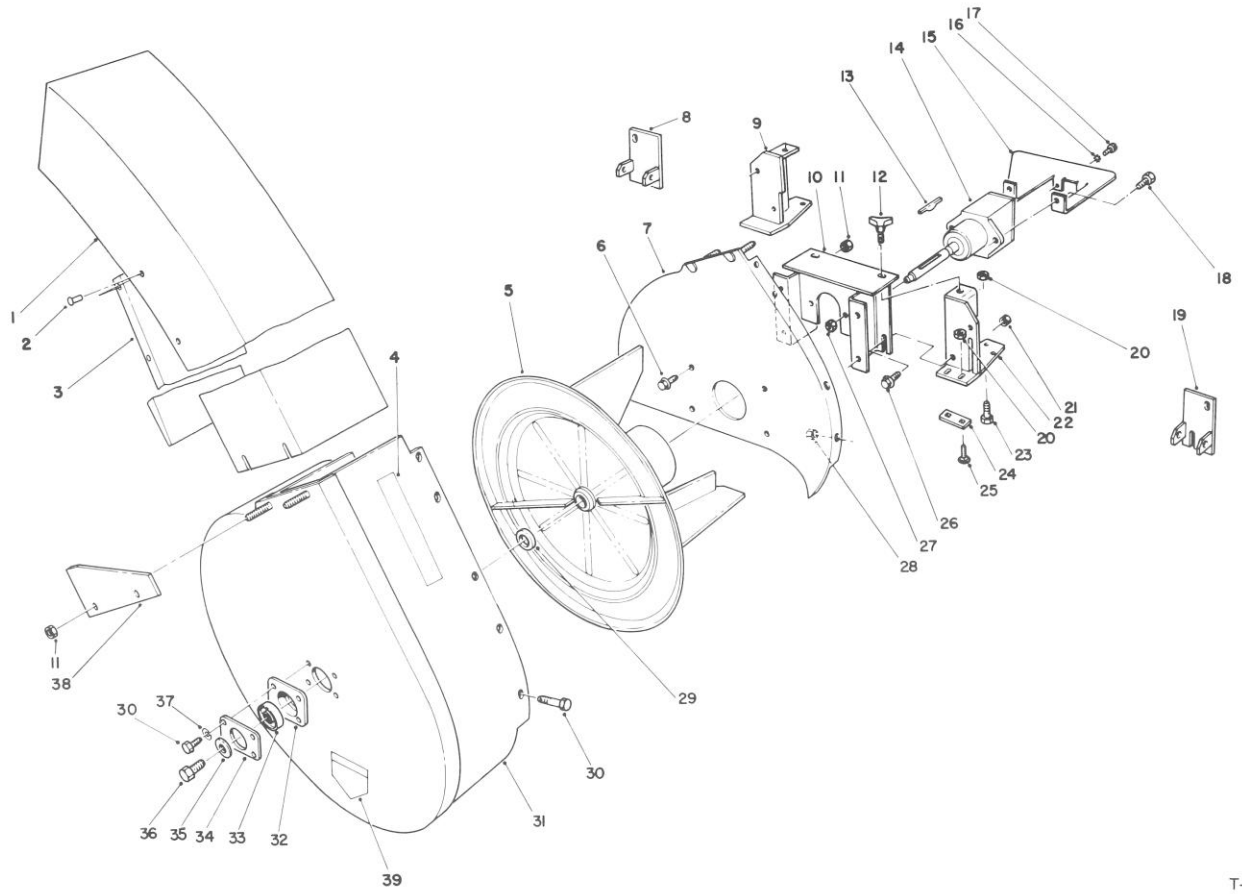


T-0601-89

GRASS COLLECTOR MODEL 30561 (Optional)

Ref. No.	Part No.	Description	No. Used
1	44-5300	Chute Assembly (Incl. Ref. #2 & 3)	1
2	3290-409	Rivet	8
3		Deflector — Chute	1
4	43-1110	Decal — Warning	1
5	56-4780	Impeller	1
6	3234-5	Screw — Flange	4
7	59-5070	Mounting Plate	1
8	59-4980	Pivot Bracket — Deflector L.H.	1
9	59-5050	Bracket L.H.	1
10	59-5140	Blower Mount	1
11	3296-29	Nut	8
12	62-6520	Knob	2
13	3257-40	Key — Hi Pro	1
14	53-4530	Gear Box Assembly	1

Ref. No.	Part No.	Description	No. Used
15	59-5150	Cover — Gear Box	1
16	3255-17	Lockwasher	2
17	3290-134	Capscrew	2
18	323-7	Capscrew	2
19	59-5000	Pivot Bracket — Deflector R.H.	1
20	32152-1	Locknut	6
21	3218-3	Nut — Jam	2
22	59-5090	Bracket R.H.	1
23	322-3	Capscrew	2
24	44-5460	Plate Bracket L.H.	2
25	3230-1	Bolt — Carriage	4
26	3234-11	Screw Flange	2
27	3296-44	Nut	2
28	3296-42	Nut	9
29	63-9710	Spacer — Bearing	1

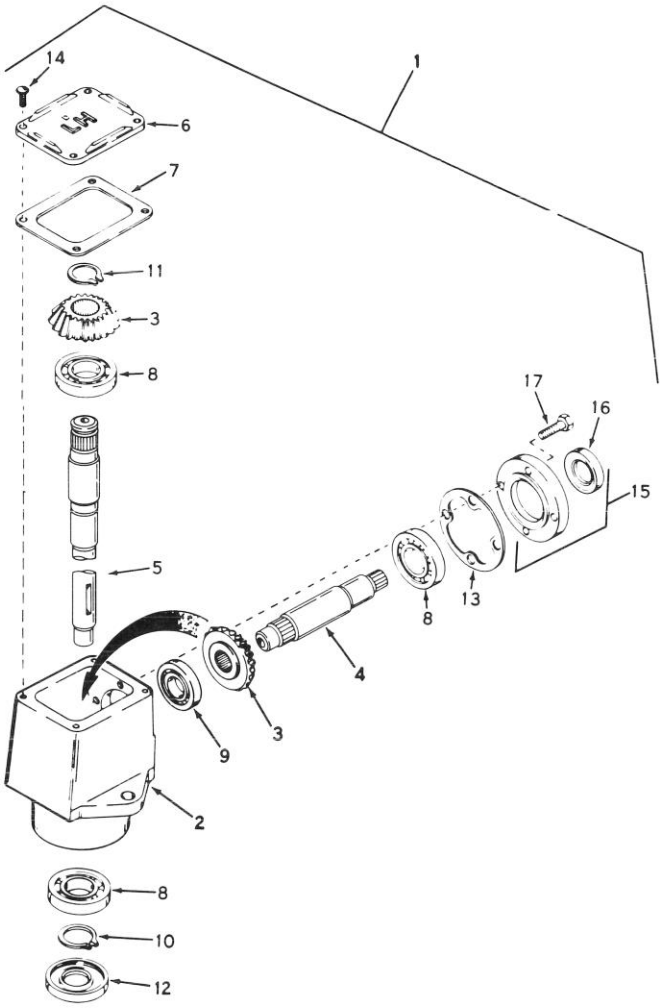


T-0601-89

GRASS COLLECTOR MODEL 30561 (Optional)(Continued)

Ref. No.	Part No.	Description	No. Used
30	321-3	Capscrew	13
31	13-0269	Blower Housing (Incl. Ref. #4)	1
32	37-6730	Cup-Bearing	1
33	38-7820	Bearing — Ball	1
34	63-9700	Plate Cover	1

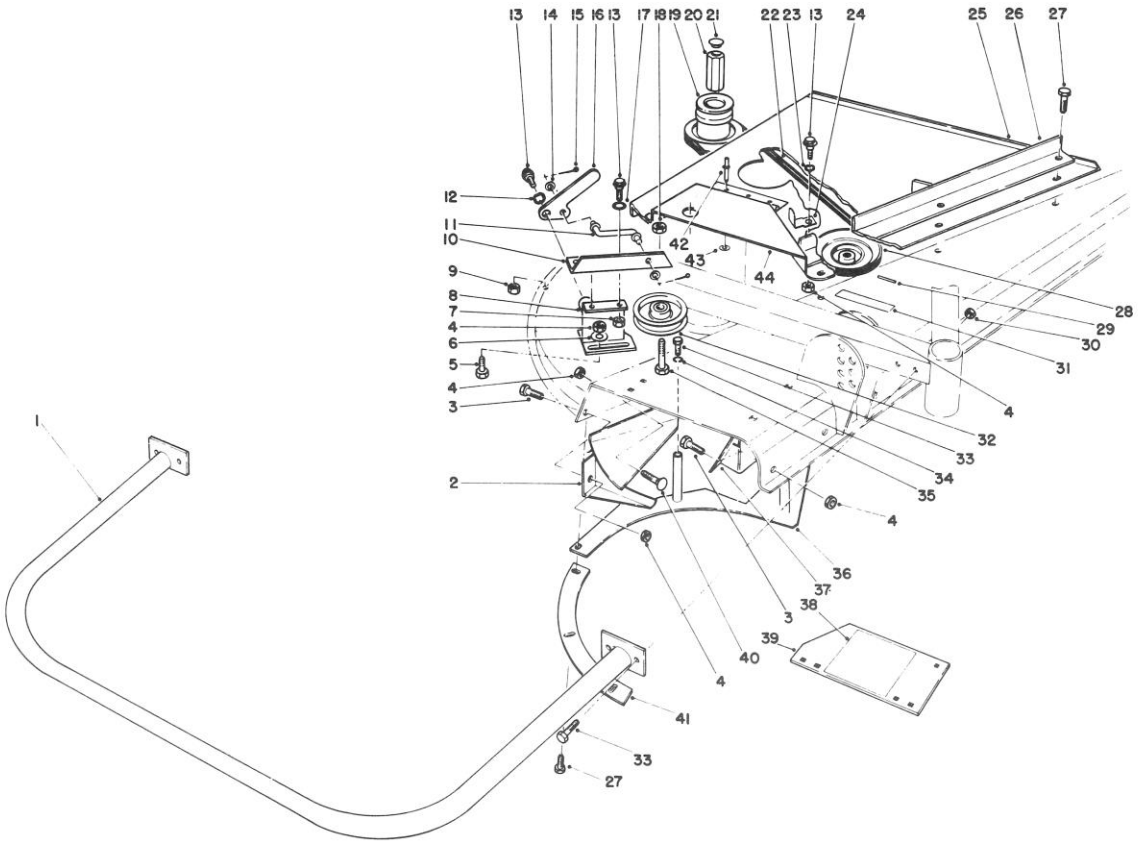
Ref. No.	Part No.	Description	No. Used
35	43-0940	Spacer — Blower Hub	1
36	3235-22	Capscrew	1
37	3253-3	Lockwasher	4
38	43-0960	Bracket — Chute	1
39	43-8480	Decal — Danger	1



GRASS COLLECTOR MODEL 30561 (Optional)(Continued)

Ref. No.	Part No.	Description	No. Used
1	794402	Head Assy., Left Hand (Incl. Ref. #2-15)	1
2	770026A	Housing, Right Angle Drive	1
3	778046	Gear, Miter	2
4	776250	Shaft, Input	1
5	776249	Shaft, Output	1
6	772035	Cover	1
7	788028	Gasket, Cover	1
8	780034	Bearing, Ball	3
9	780024	Bearing, Ball	1

Ref. No.	Part No.	Description	No. Used
10	788019	Ring, Snap	1
11	788018	Ring, Snap	1
12	788029	Seal, Oil	1
13	788030	Gasket, Cap	1
14	792025	Screw, Rd. Hd. Self-Tap	4
15	786029	Cap & Seal Assy., Retainer (Incl. Ref. #16 & 17)	1
16	788031	Seal, Oil	1
17	792026	Screw, Hex. Hd.	4



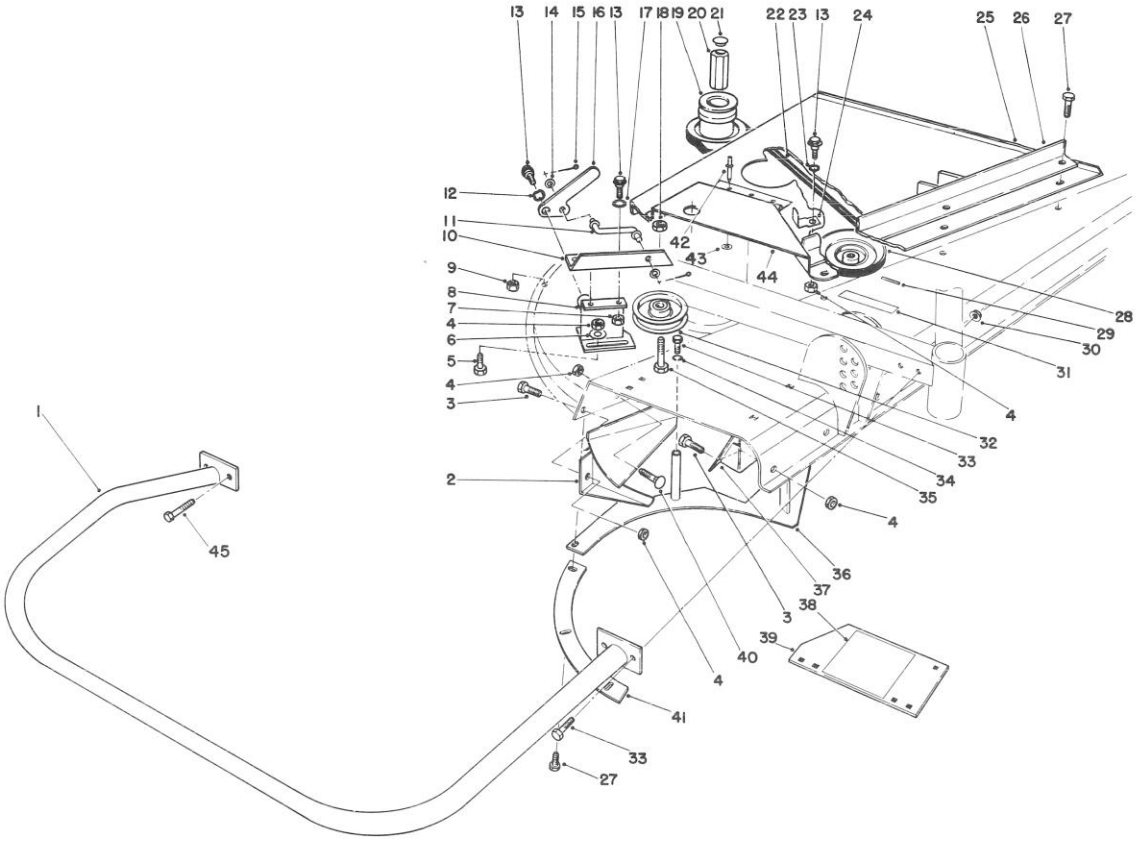
T-0624-89

GRASS COLLECTOR MODEL 30561 (Optional) (Continued) USED ON UNITS WITH SERIAL NO. 90001 THRU 90200

Ref. No.	Part No.	Description	No. Used
1	44-7570	Bumper	1
2	43-1060	Deflector — Rear	1
3	322-4	Screw — Hex. Hd.	4
4	32152-1	Nut — Lock	10
5	322-3	Screw Hex. Hd.	3
6	3256-56	Washer — Plain	3
7	3296-29	Nut — Hex	2
8	59-4920	Bracket — Idler Mounting	1
9	32152-4	Nut — Lock	4
10	59-4930	Slide — Idler	1
11	59-4940	Idler Rod	1
12	3290-211	Washer — Spring	1
13	19-1470	Bolt — Shoulder	4
14	3256-23	Washer — Plain	2
15	3272-6	Pin — Cotter	2
16	56-4900	Lever — Idler	1
17	23-1120	Washer — Flat	2
18	3296-44	Nut — Hex	1
19	59-5170	Pulley (Splined)	1
20	59-5190	Nut — Pulley	1
21	59-5310	Cover — Nut	1
22	59-5270	V-Belt	1
23	3290-211	Washer — Spring	1

Ref. No.	Part No.	Description	No. Used
24	59-5290	Latch	1
25	59-5280	Cover — Right	1
26	66-8790	Spring Bracket	1
27	321-4	Capscrew	7
28	56-4810	Pulley — Gear Box	1
29	32121-8	Pin — Roll	1
30	32152-2	Nut — Lock	4
31	43-1120	Decal — Warning	1
32	56-4920	Pulley — Idler	1
33	323-6	Capscrew	8
34	3253-21	Washer — Lock	4
35	323-7	Screw — Hex. Hd.	1
36	44-7770	Rear Shelf	1
37	67-7540	Front — Deflector	1
38	40-5730	Decal — Caution	1
39	44-5750	Cover Plate Assembly (Incl. Ref. #38)	1
40	3230-1	Carriage Bolt	2
41	44-7780	Shelf R.H.	1
42	3290-409	Rivet — Pop	3
43	3256-21	Washer	3
44	61-8630	Cover Pulley	1
*	44-5480	Blade — High Sail (18") (Opt)	1

*Not Illustrated



T-0602-89

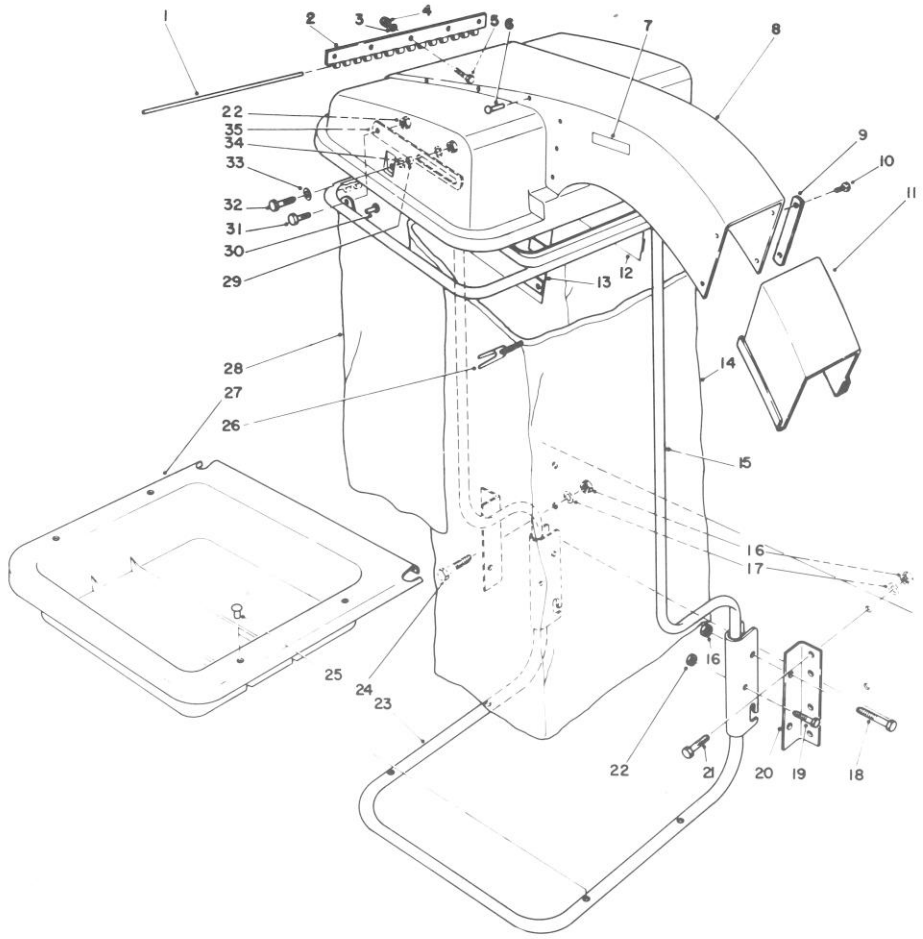
GRASS COLLECTOR MODEL 30561 (Optional) (Continued)
(USED ON UNITS WITH SERIAL NO. 90501 & UP)

Ref. No.	Part No.	Description	No. Used
1	70-8050	Bumper	1
2	43-1060	Deflector — Rear	1
3	322-4	Screw — Hex. Hd.	4
4	32152-1	Nut — Lock	10
5	322-3	Screw Hex. Hd.	3
6	3256-56	Washer — Plain	3
7	3296-29	Nut — Hex	2
8	59-4920	Bracket — Idler Mounting	1
9	32152-4	Nut — Lock	4
10	59-4930	Slide — Idler	1
11	59-4940	Idler Rod	1
12	3290-211	Washer — Spring	1
13	19-1470	Bolt — Shoulder	4
14	3256-23	Washer — Plain	2
15	3272-6	Pin — Cotter	2
16	56-4900	Lever — Idler	1
17	23-1120	Washer — Flat	2
18	3296-44	Nut — Hex	1
19	59-5170	Pulley (Splined)	1
20	59-5190	Nut — Pulley	1
21	59-5310	Cover — Nut	1
22	59-5270	V-Belt	1
23	3290-211	Washer — Spring	1
24	59-5290	Latch	1

Ref. No.	Part No.	Description	No. Used
25	59-5280	Cover — Right	1
26	66-8790	Spring Bracket	1
27	321-4	Capscrew	7
28	56-4810	Pulley — Gear Box	1
29	32121-8	Pin — Roll	1
30	32128-43	Nut — Lock	2
31	43-1120	Decal — Warning	1
32	56-4920	Pulley — Idler	1
33	323-6	Capscrew	6
34	3253-21	Washer — Lock	4
35	323-7	Screw — Hex. Hd.	1
36	44-7770	Rear Shelf	1
37	67-7540	Front — Deflector	1
38	40-5730	Decal — Caution	1
39	44-5750	Cover Plate Assembly (Incl. Ref. #38)	1
40	3230-1	Carriage Bolt	2
41	44-7780	Shelf R.H.	1
42	3290-409	Rivet — Pop	3
43	3256-21	Washer	3
44	61-8630	Cover Pulley	1
45	325-6	Hex. Hd. Capscrew	2
*	44-5480	Blade — High Sail (18") (Opt.)	1
*†	32128-23	Nut — Lock Flange	2

*Not Illustrated

†Required on older units for mounting bumper 70-8050 to carrier frame.



T-0603-89

GRASS COLLECTOR MODEL 30561 (Optional)(Continued)

Ref. No.	Part No.	Description	No. Used
1	43-1000	Hinge Pin — Hood	1
2	43-0610	Hinge Half	1
3	3256-14	Washer — Flat	5
4	3296-2	Nut — Lock	5
5	3290-134	Screw — Machine Hex. Hd.	5
6	3290-412	Rivet — Pop	14
7	43-1100	Decal — Caution	2
8	67-7110	Hood Assembly (Incl. Ref. #2-7 & 12-13)	1
9	67-1730	Nut Plate	1
10	3274-31	Button Head Screw	1
11	67-1740	Snout Extension	1
12	43-0600	Screen — Left Hand	1
13	43-0570	Screen — Right Hand	1
14	43-0990	Bag — Cloth 32" (7 bushel capacity)	1
*	43-0980	Bag — Cloth 38" (10 bushel capacity) (Optional)	1
15	67-7500	Support Tube Assembly — (Upper (Incl. Ref. #25 & 28)	1
16	32152-2	Nut — Lock	12

Ref. No.	Part No.	Description	No. Used
17	3256-3	Washer — Plain	8
18	323-11	Screw — Cap Hex. Hd.	4
19	322-11	Screw — Cap Hex. Hd.	2
20	43-1010	Bracket — Frame	4
21	323-7	Screw — Cap Hex. Hd.	7
22	32152-1	Nut — Lock	6
23	43-0720	Support Tube Assembly — Lower (Incl. Ref. #25 & 27)	1
24	323-10	Screw — Cap Hex. Hd.	1
25	3290-409	Rivet — Pop	21
26	3-2781	Cord Retainer	1
*†	36-7770	Cord Retainer (optional)	1
27		Tray — Lower	1
28		Skirt — Bagging Frame	1
29	43-1020	Spacer — Pivot Arm	2
30	322-3	Screw — Hex. Hd.	2
31	322-4	Screw — Hex. Hd.	2
32	3256-56	Washer — Flat	2
33	3256-57	Washer — Fender	4
34	43-1050	Stop — Hood	2
*	44-9720	Template — Bracket	1

*Not Illustrated

†For use with 30 gallon plastic bag.

V36-753

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 apparently has been made in your unit, which is not reflected in your manual, see your TORO Distributor for information and part numbers.

IDENTIFICATION AND ORDERING

Model and Serial Numbers

The Groundsmaster 220D has two identification numbers: a model number and a serial number. The two numbers are stamped on a plate which is located on the right hand side seat cover support. In any correspondence concerning the Groundsmaster 220D, supply model and serial numbers to assure that correct information and replacement parts are obtained.

To order replacement parts from an Authorized TORO Distributor, supply the following information.

1. Model and serial number of the Groundsmaster 220D.
2. Part number, description, and quantity of part(s) desired.

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

INDEX

Description	Page
Body Assembly	1-2
Control Panel Assembly	3
Electrical Schematic	4
Power Steering & Brake Pedal Assembly	5
Steering Valve Assembly No. 63-9250	6
Traction Pedal Assembly	7
Power Take Off Battery & Engine Mount	8-9
Hydraulic Lift System Assembly	10
Lift Valve Assembly No. 63-7960	11
Radiator Assembly	12
Fuel Tank and Axle Assembly	13
Differential Assembly	14-15
Brake Assembly	16
Transmission & Drive Coupling Assembly	17
Transmission Assembly No. 49-7910	18
Hydraulic Schematic	19
Transmission Interlock Assembly	20
Seat Frame & Air Cleaner Assembly	21-22
Standard Seat Kit Model No. 30769	23
Armrest Kit Model No. 30707	24
Deluxe Seat Kit Model No. 30772	25
Manual Storage	26
Rear Axle Assembly	27
Tire & WheelAssembly 23 x 10.50 x 12 (Optional) No. 62-7020	28
Hydraulic Steering Cylinder No. 63-6740	29
Engine Assembly	30
Power Take-Off Assembly	31
Clutch Assembly No. 63-6050	32
Camshaft Assembly	33
Valves & Crankshaft Assembly	34
Cylinder Head Assembly	35
Crankcase Assembly	36

Description	Page
Water Pump Assembly	37
Fuel Supply & Engine Block Assembly	38
Fuel Injection Pump Assembly	39
Governor Assembly	40
Starter Assembly	41
Alternator Assembly	42
Cutting Unit Model No. 30564	43-46
Rear Weight	47
Rear Weight Kit No. 24-5780 (Optional)	48
Gear Box Assembly No. 8-0909 Cutting Unit Model No. 30564, 30555, 30568 & 30575	49
Wheel Weight Kit Model No. 30762 (Optional)	50
Cutting Unit Model No. 30555	51-53
Cutting Unit Model No. 30568	54-56
Cutting Unit Model No. 30575	57-60
Phenolic Wheel Assembly No. 27-1050 (Optional)	61
Mulcher Kit Model No. 30792 (Optional) (Used with Model 30564 Cutting Unit)	62
Mulcher Kit Model No. 30700 (Optional) (For Cutting Unit Model 30555)	63
Tractor Shield Kit Model No. 30567 (Optional)	64
Weight Box Kit No. 62-6590 (Optional)	65
V-Plow Model No. 30750 (Optional)	66
V-Plow Installation Kit Model No. 30755 (Optional)	67
52" Weight Transfer Model No. 30702	68
62" Weight Transfer Model No. 30703	69
72" Weight Transfer Model No. 30704	70
52" Counter Balance Kit Model No. 30712	71
62" Counter Balance Kit Model No. 30713	72
72" Counter Balance Kit Model No. 30714	73
Grass Collector Model No. 30561 (Optional)	74-79