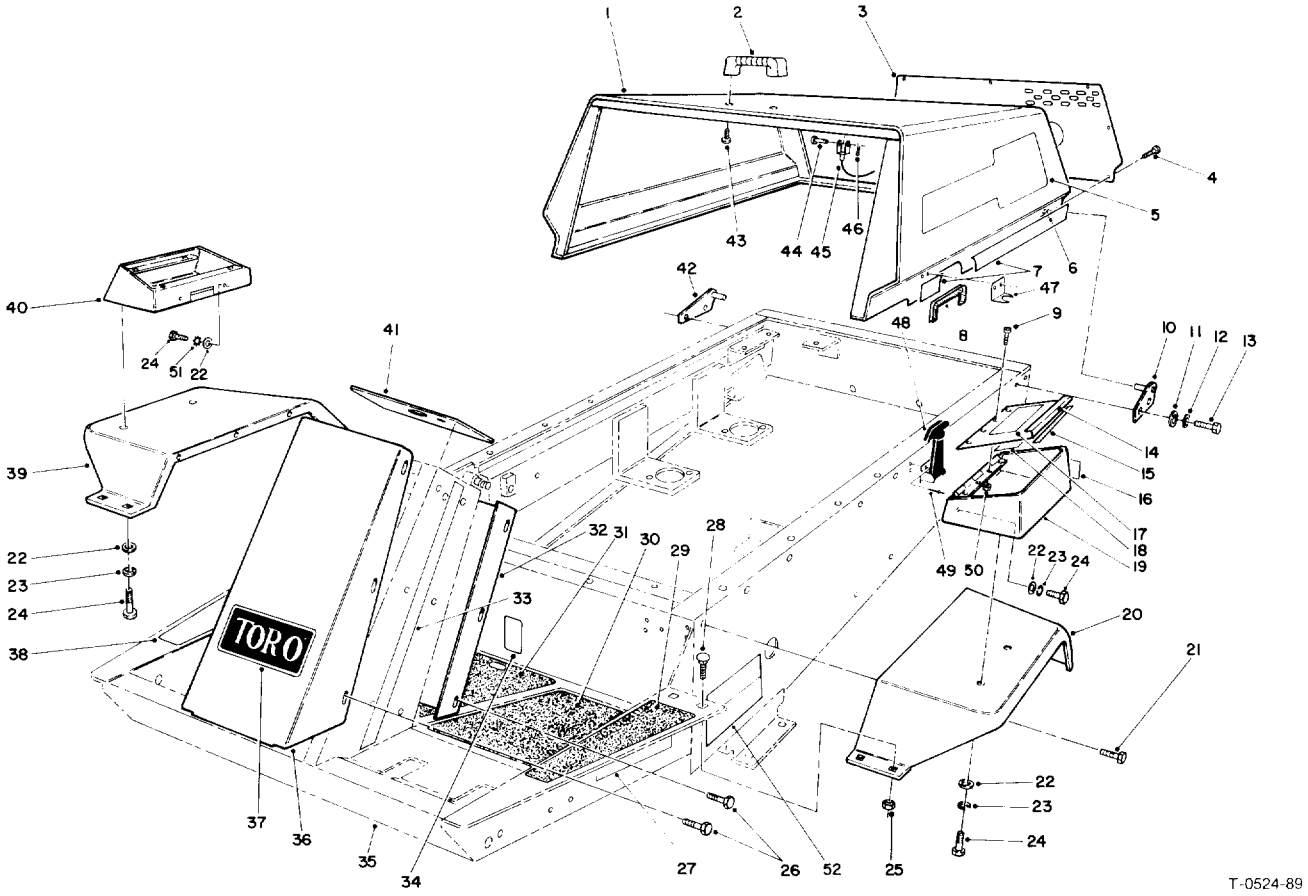
FORM NO. 3313-745 Rev. A

TORO®

MODEL NO. 30224 — 90001 & UP

PARTS CATALOG

GROUNDSMASTER® 224



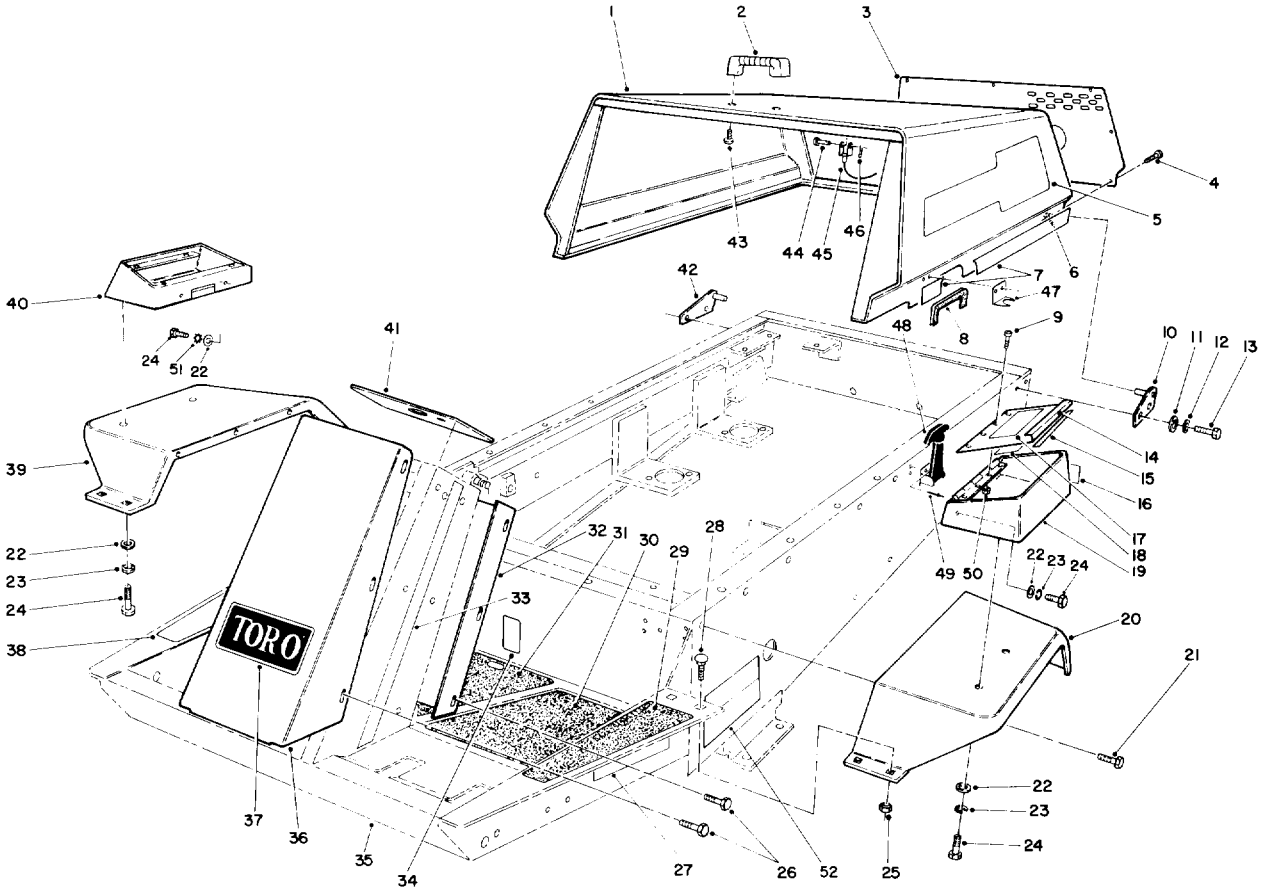
BODY ASSEMBLY

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	71-3390	Decal — Groundsmaster 224	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	71-2920	Decal — Caution	1
18	71-3520	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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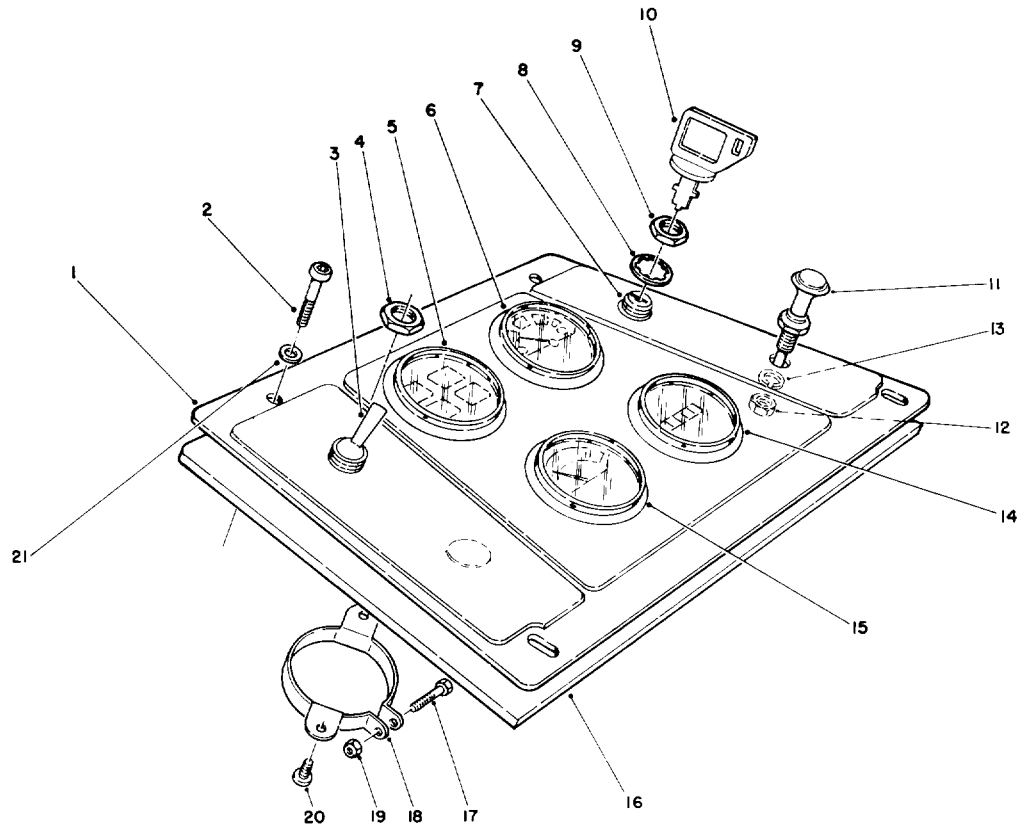
T-0524-89

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
52	70-1940	Decal — Caution	2

*Not Illustrated

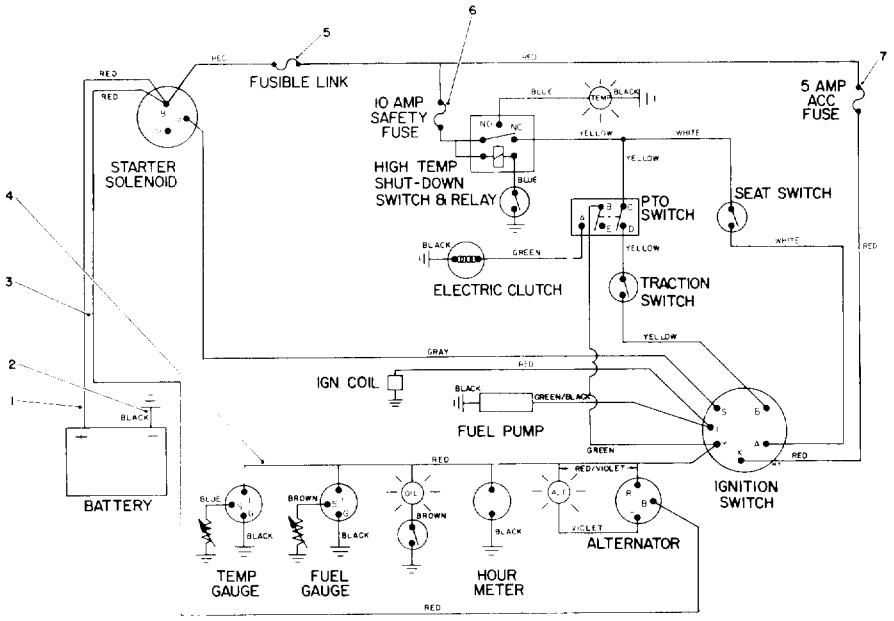


T-0841-89

CONTROL PANEL ASSEMBLY

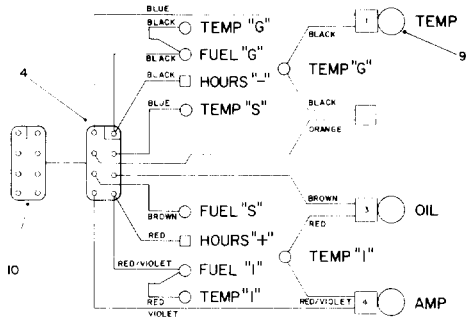
Ref. No.	Part No.	Description	No. Used
1	71-3480	Plate — Control Panel	1
2	3274-68	Screw — Socket Button Hd.	4
3	37-2610	Switch — PTO	
		(Incl. Ref. #44)	1
4	218-500	Nut — Hex	1
5	66-2960	Warning Light Cluster	1
6	66-2940	Gage — Fuel	1
7	27-2360	Switch — Ignition	
		(Incl. Ref. #8-10)	1
8	218-447	Washer — Lock	1
9	218-446	Nut — Hex	1
10	63-8360	Key — Ignition	1

Ref. No.	Part No.	Description	No. Used
11	71-2890	Control — Choke	1
12	3220-3	Nut — Jam	1
13	3253-21	Washer — Lock	1
14	66-2950	Meter — Hour	1
15	63-7430	Gage — Temperature	1
16	71-3490	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
21	3256-1	Washer — Flat	4



IGNITION SWITCH CIRCUITRY

POSITION	CIRCUIT	"MAKE"
1. OFF	NONE	
2. RUN	B+I+A	X + Y
3. START	B+I+S	

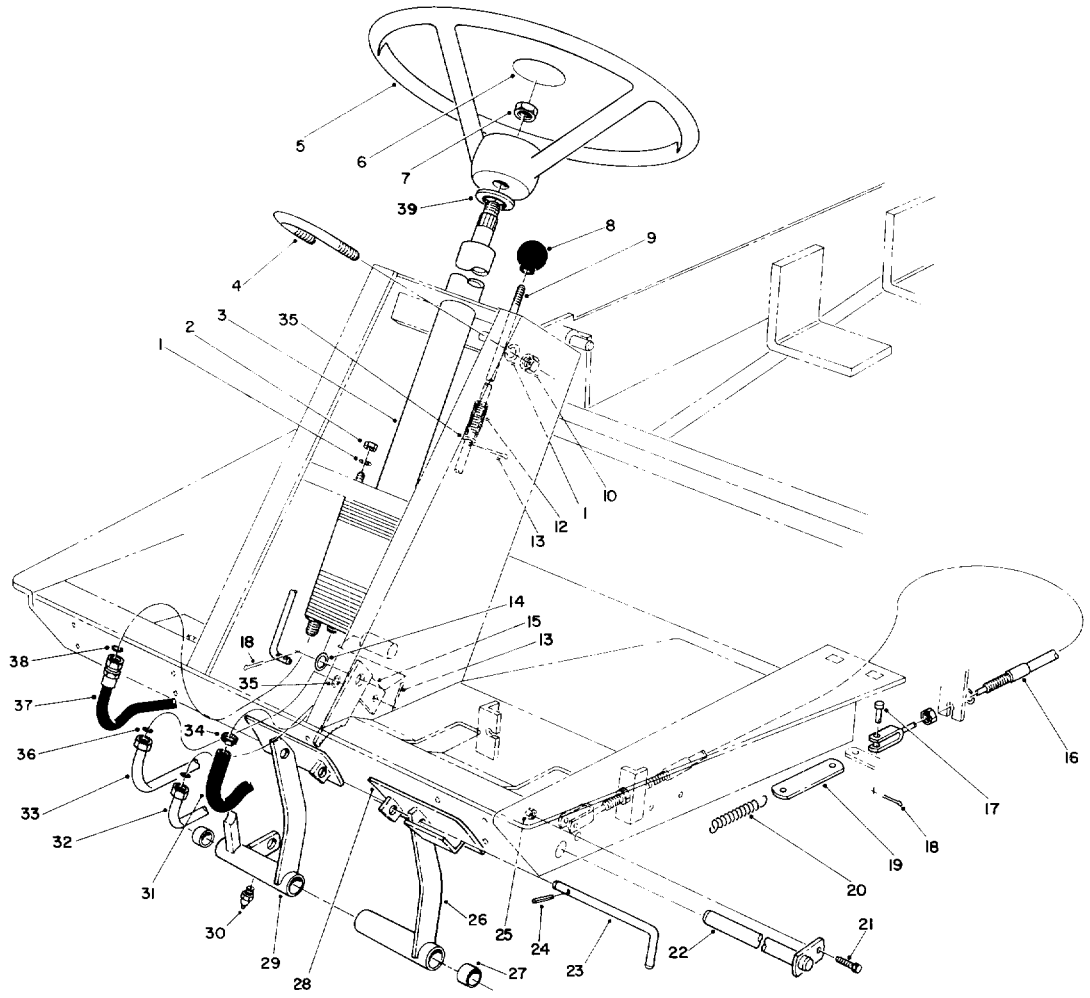


T-0843-89

ELECTRICAL SCHEMATIC

Ref. No.	Part No.	Description	No. Used
1	43-4031	Wire Positive	1
2	63-7340	Wire — Ground	1
3	71-3360	Wire Harness (Incl. Ref. #5, 6 & 9)	1
4	66-8690	Lamp Harness	1

Ref. No.	Part No.	Description	No. Used
5	67-7120	Fusible Link	1
6	218-578	Fuse 10.0 Amp	1
7	218-573	Fuse 5.0 Amp	1
9	219-17	Light Bulb	3
10	68-7380	Connector Assembly	1

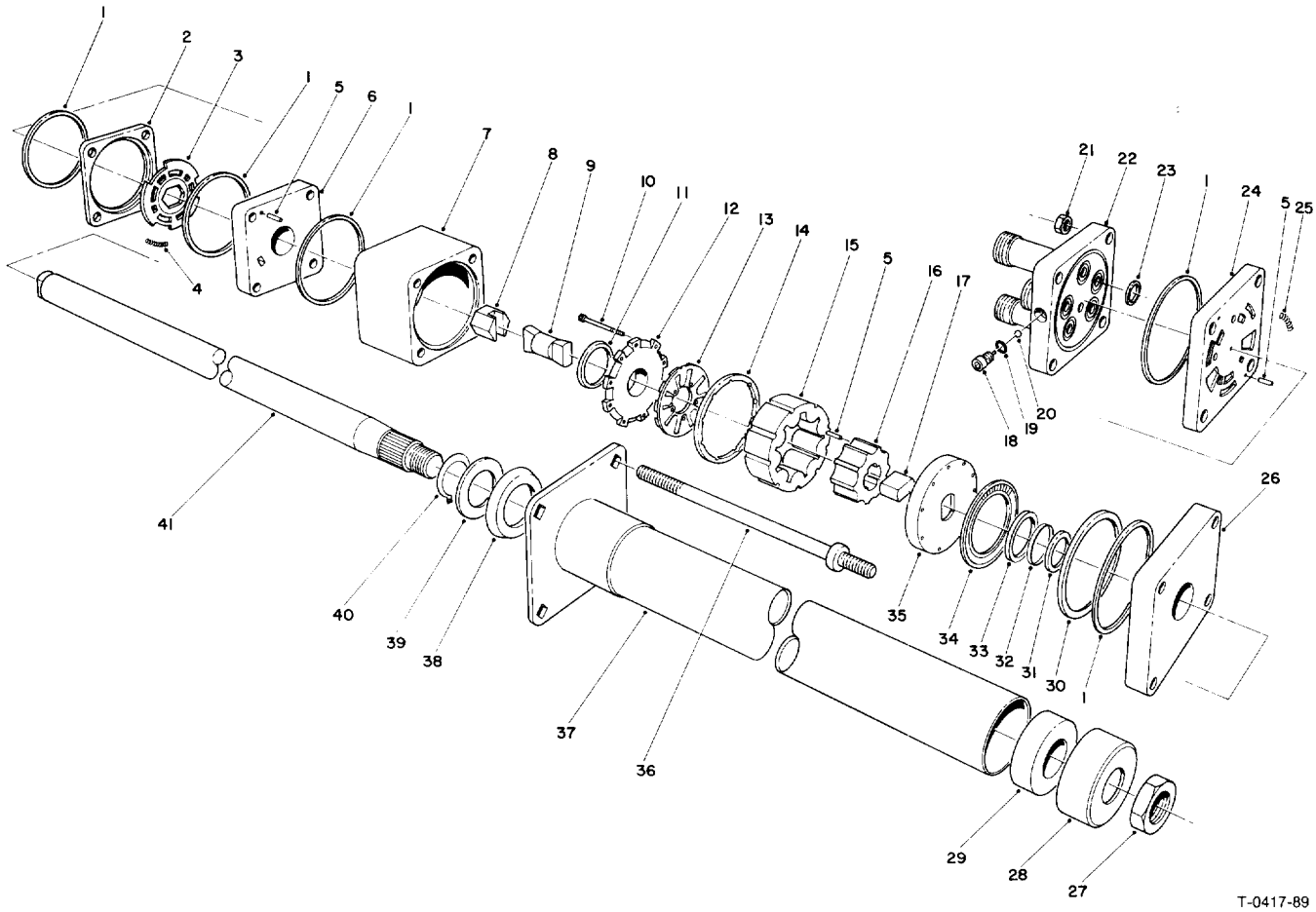


POWER STEERING & BRAKE PEDAL ASSEMBLY

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	63-7880	Pin — Brake Latch	1
24	32121-50	Roll Pin	1
25	3296-42	Locknut	1
26	63-6180	Pedal — L.H. Brake (Incl. Ref. #25 & 28)	1
27	256-42	Bushing	4
28	7-3900	Foot Pad — Brake	2
29	63-6190	Pedal — R.H. Brake (Incl. Ref. #25 & 28)	1
30	302-5	Fitting — Grease	2
31	66-8140	Hose	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

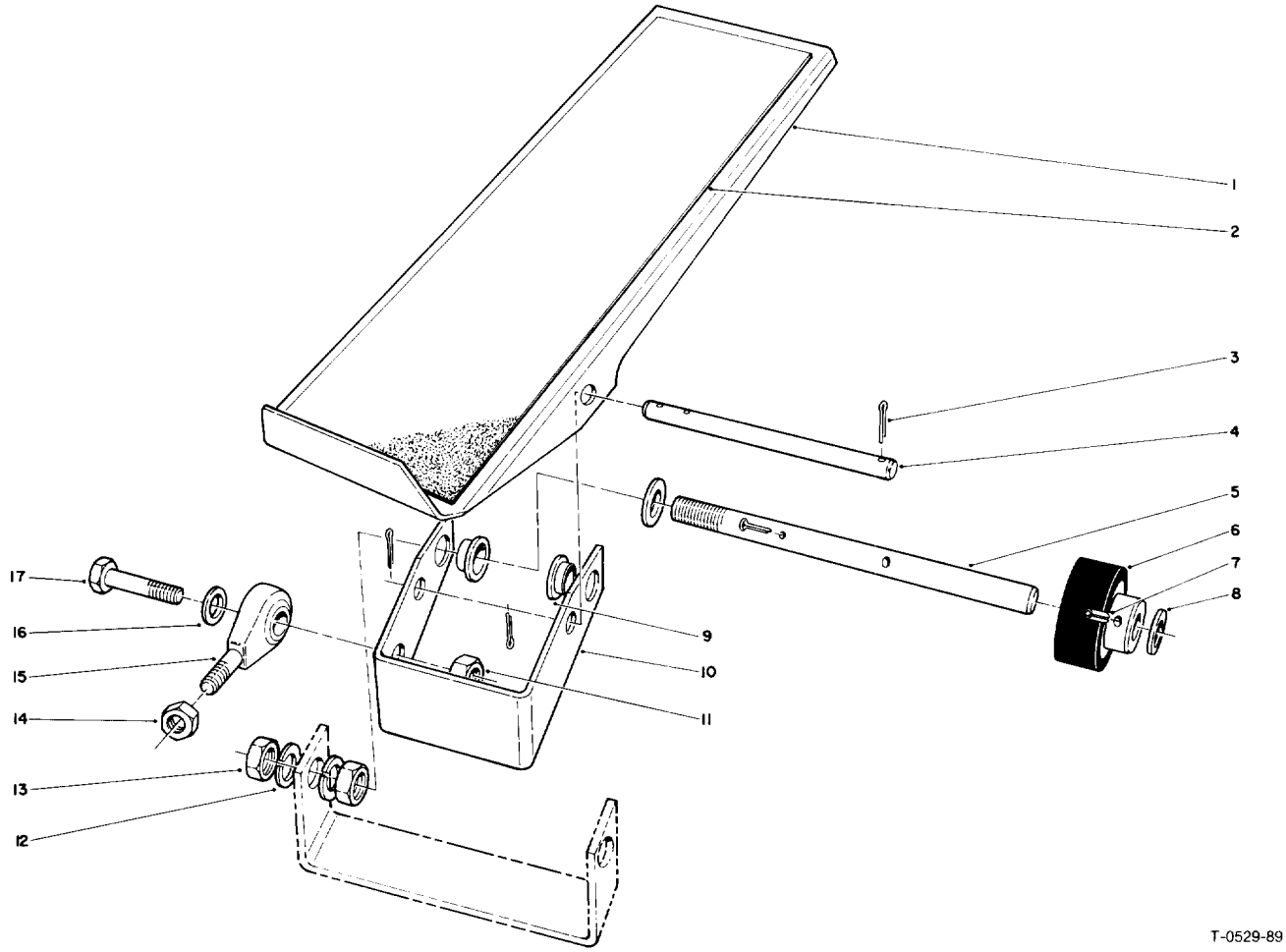


STEERING VALVE ASSEMBLY NO. 63-9250

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	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

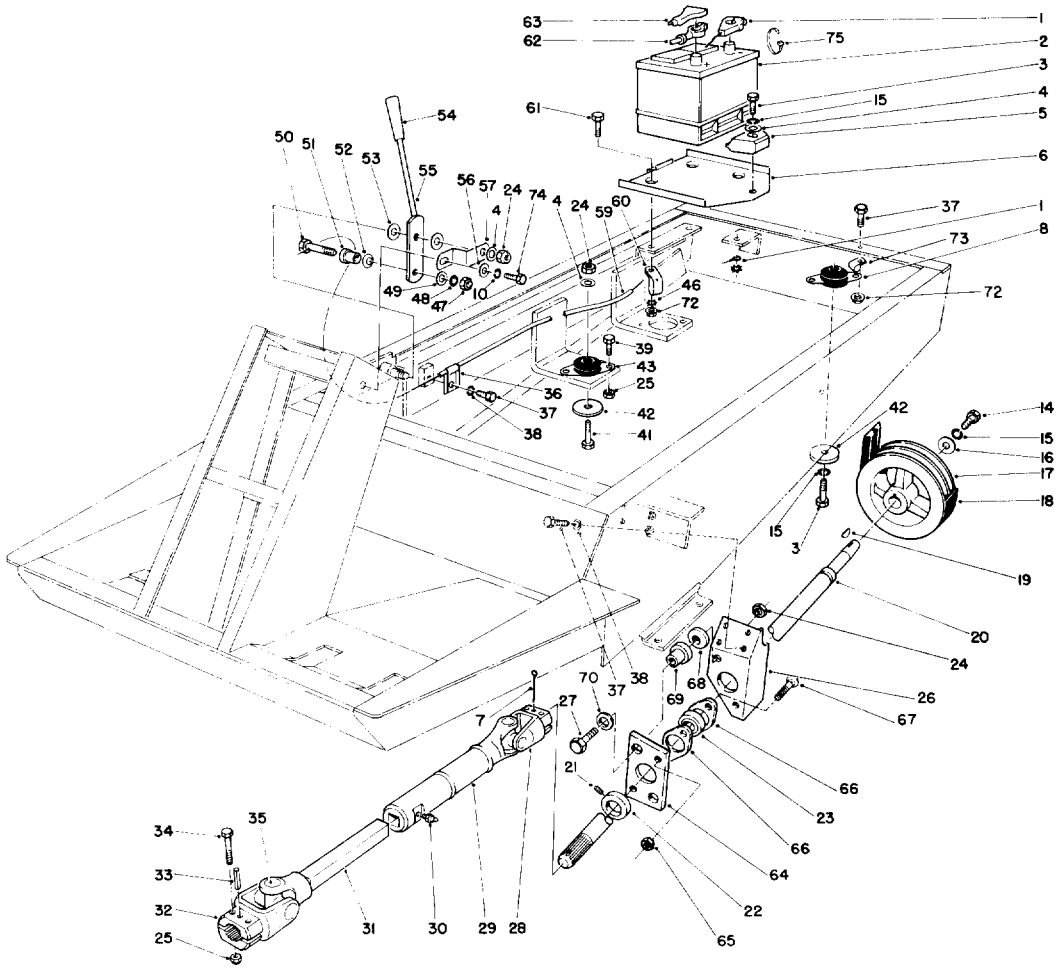
*Not Illustrated



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

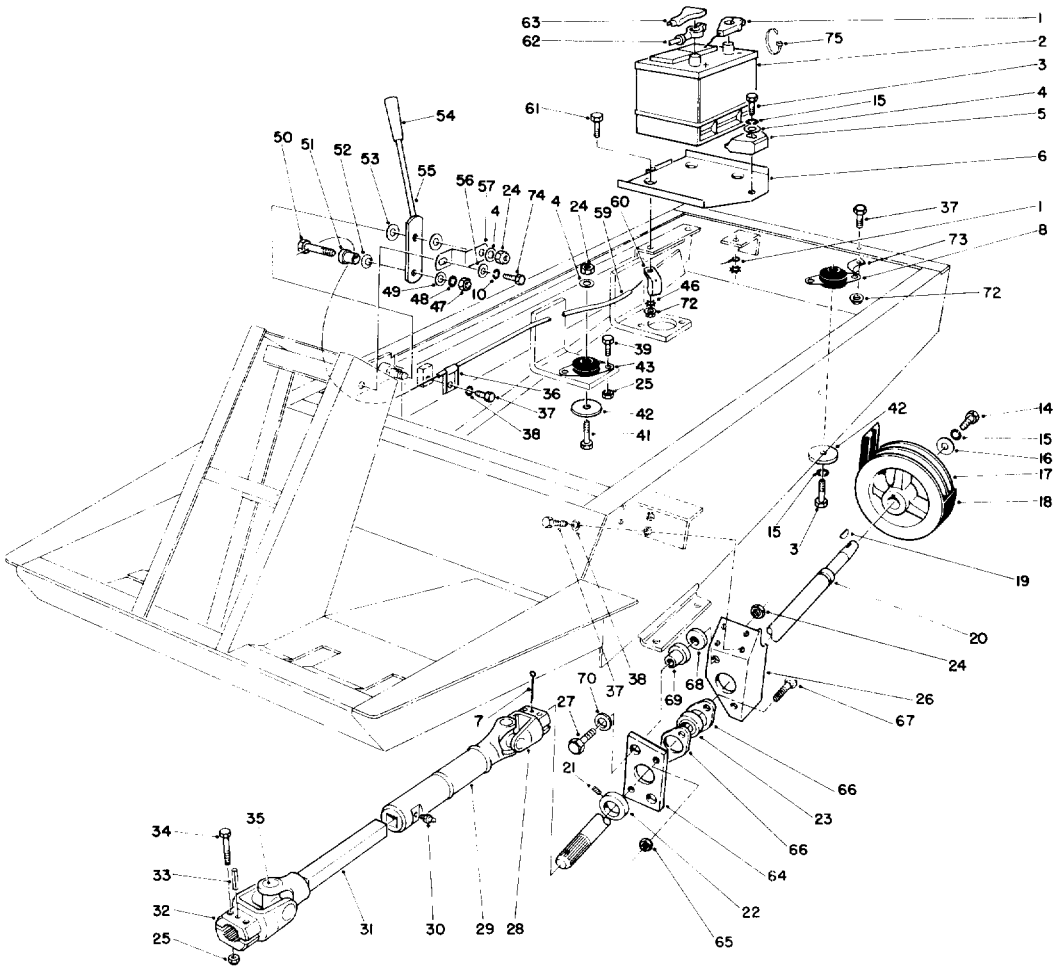


POWER TAKE OFF BATTERY & ENGINE MOUNT

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
10	3253-3	Washer — Lock	1
14	323-18	Scew — 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
23	251-253	Bearing — PTO Shaft	
		(Incl. Ref. #21 & 22)	1
24	3296-39	Locknut	3
25	3296-29	Locknut	11

Ref. No.	Part No.	Description	No. Used
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	322-5	Screw — Cap Hex Hd.	6
38	3253-4	Washer — Lock	5
39	322-5	Screw — Cap Hex Hd.	8
41	323-11	Screw — Cap Hex Hd.	3
42	63-7400	Washer — Rebound	4
43	63-7140	Mount — Shock (Blue)	3
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

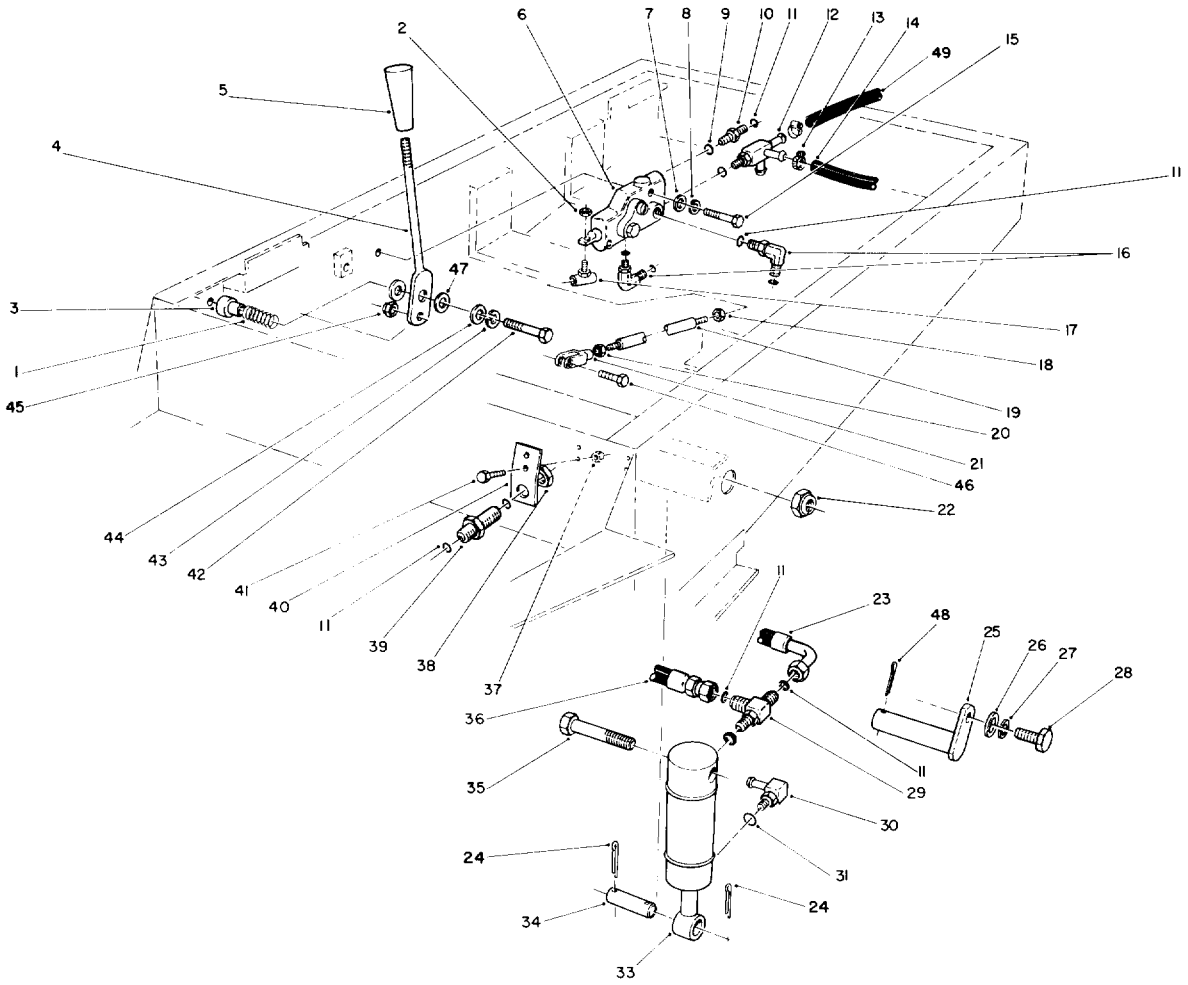
†Obtain Locally



POWER TAKE OFF BATTERY & ENGINE MOUNT (Continued)

Ref. No.	Part No.	Description	No. Used
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
61	322-5	Screw — Cap Hex Hd.	3
62	43-4031	Cable — Battery Pos.	1
63	28-1280	Boot — Pos. Cable	1

Ref. No.	Part No.	Description	No. Used
64	67-1640	Plate — Bushing Support	1
65	32149-1	Locknut	2
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	3290-378	Cable Tie	1

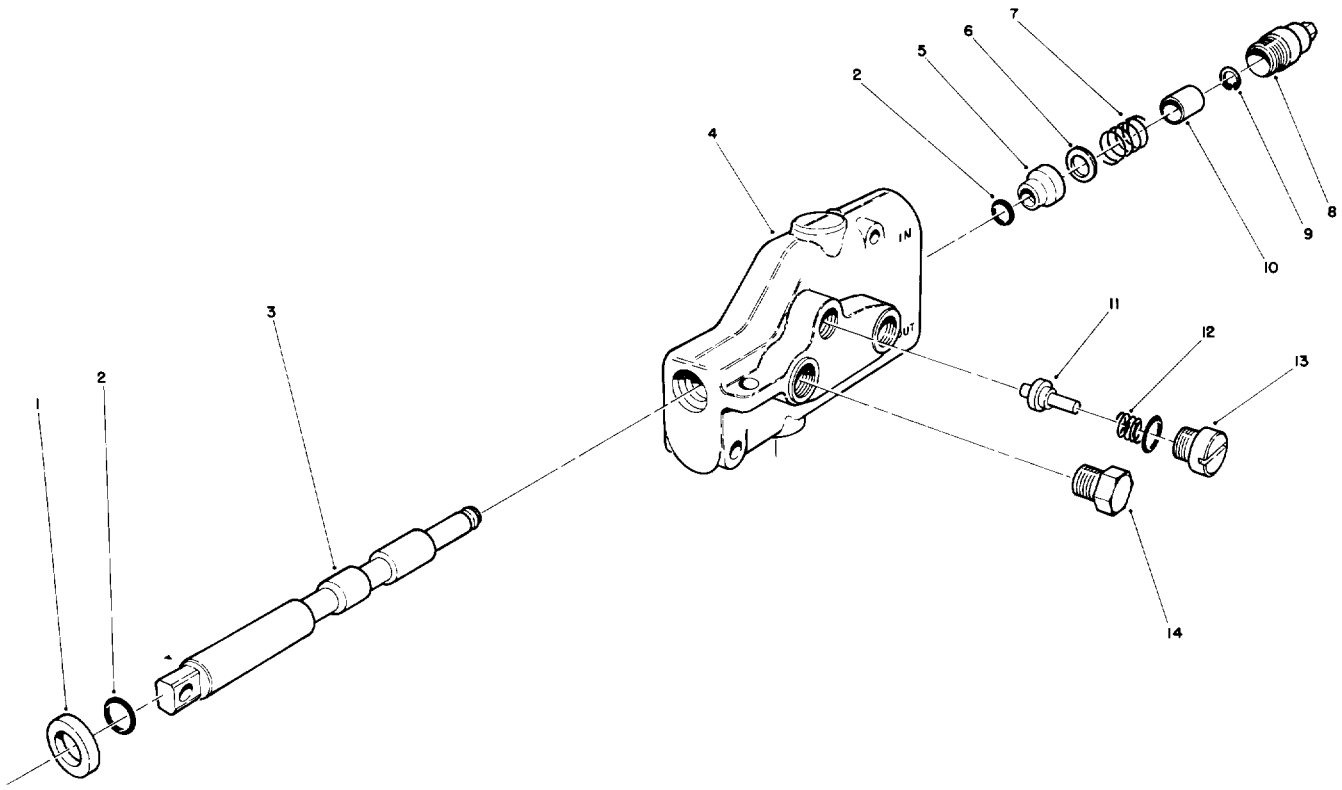


HYDRAULIC LIFT SYSTEM ASSEMBLY

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	3
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



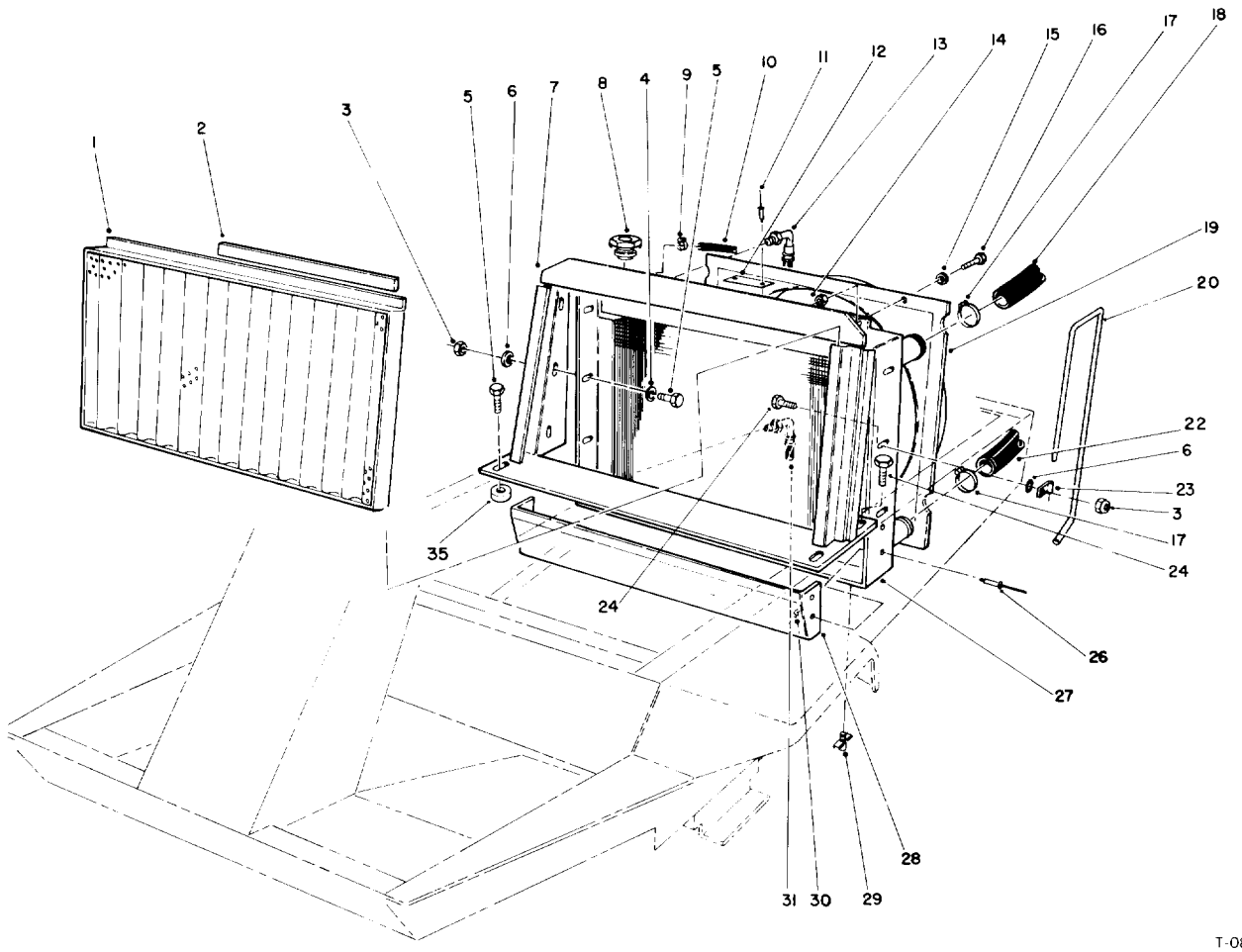
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LIFT VALVE ASSEMBLY NO. 63-7960

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

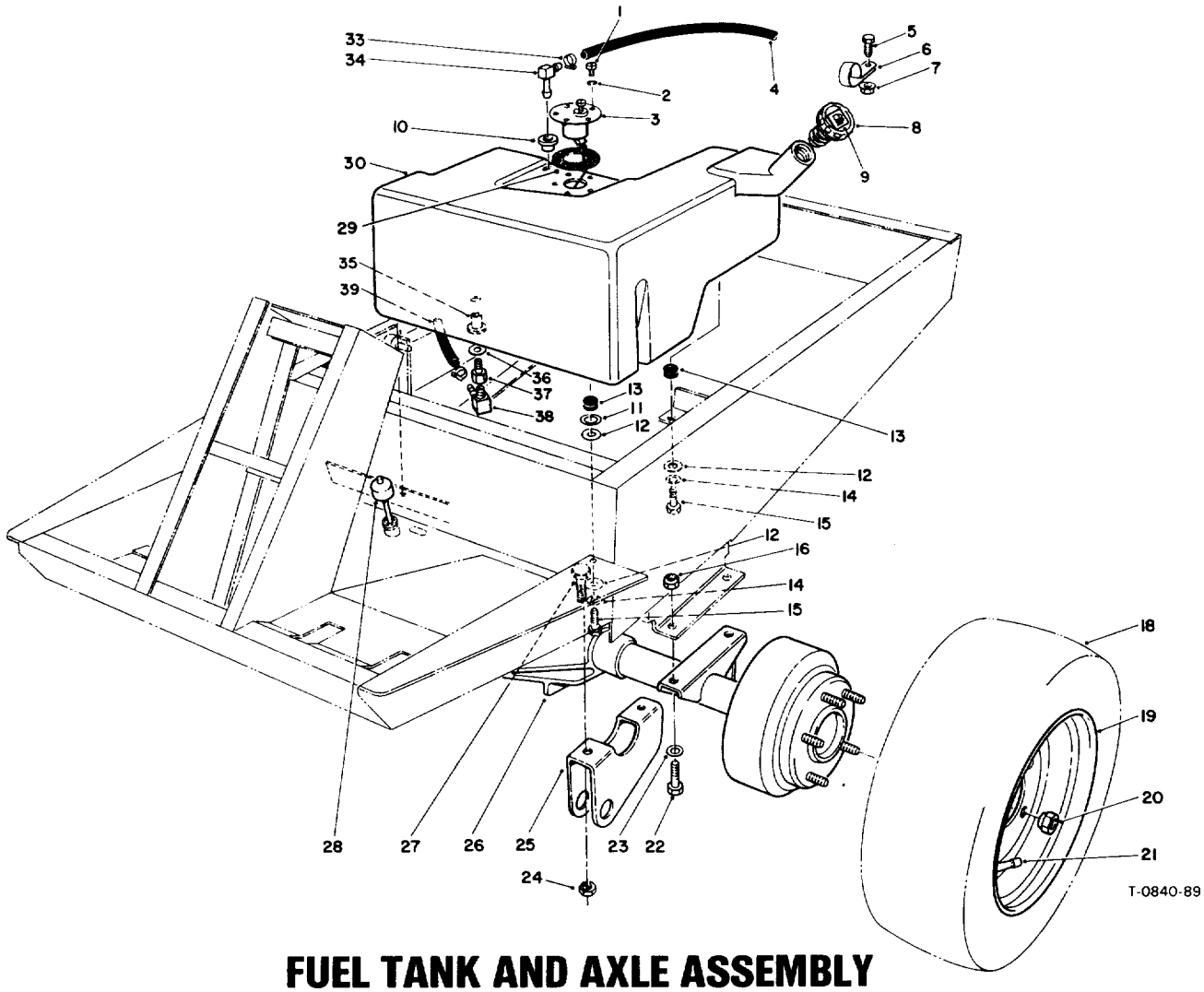


T-0842-89

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
5	3234-17	Screw — Hex	2
6	3256-23	Washer, Flat	8
7	63-6450	Radiator Support Assembly	1
8	66-3240	Cap — Radiator	1
9	2412-108	Clamp, Hose	4
10	71-3384	Hose	1
11	3290-55	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
18	63-6010	Hose, Upper	1

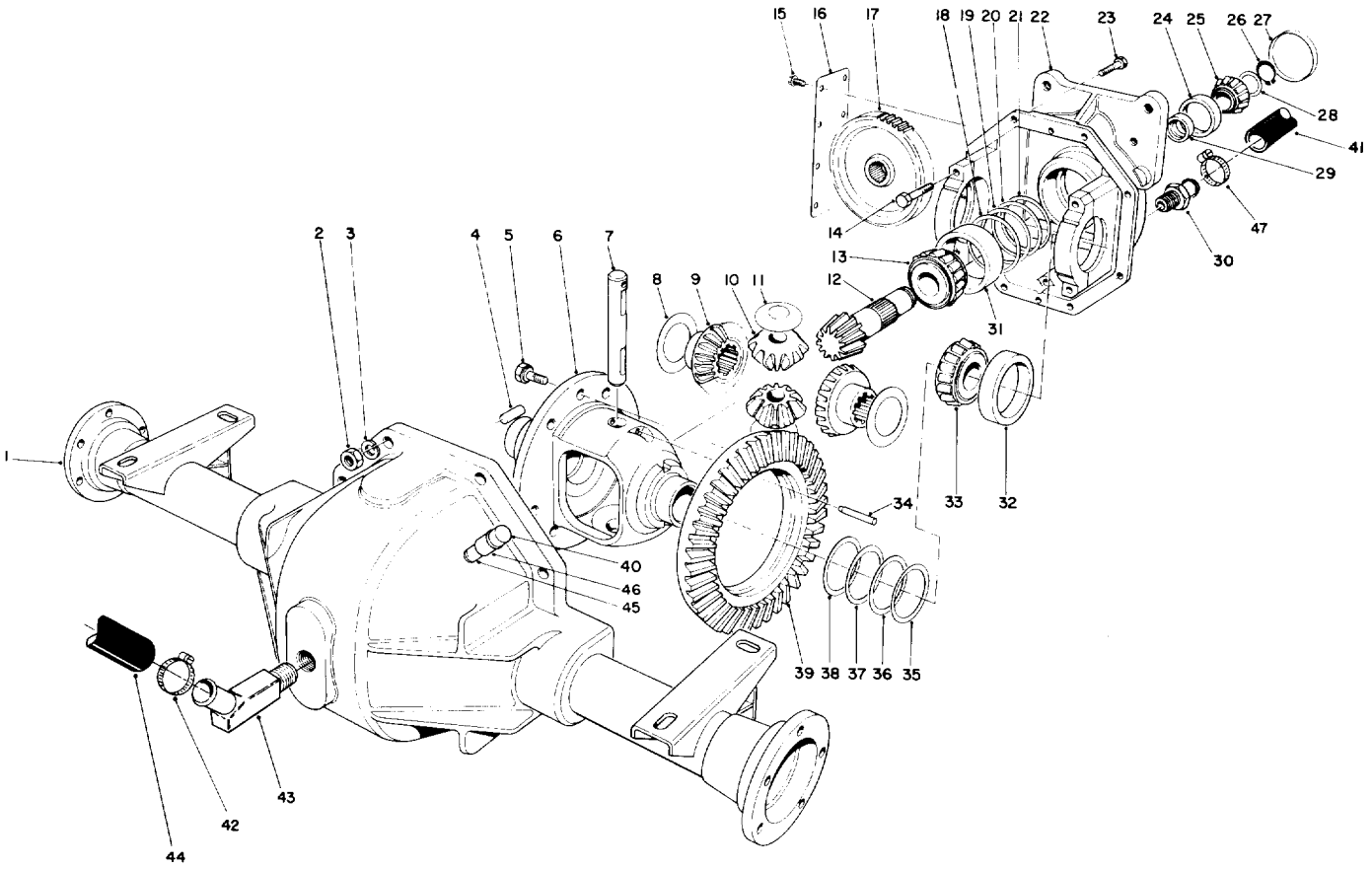
Ref. No.	Part No.	Description	No. Used
19	63-6510	Shroud — Fan	1
20	71-1540	Tube — Vent	1
21	66-3170	Hose	1
22	63-6020	Hose, Lower	1
23	2412-103	R-Clamp	2
24	3234-5	Capscrew	8
26	3290-55	Pop — Rivet	7
27	63-6150	Radiator Assembly	1
28	63-6440	Shield — Radiator	1
29	304-46	Drain Cock	1
30	3256-13	Washer — 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
35	70-9780	Spacer — Dampen	4



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	71-3383	Hose	1
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	71-3460	Decal — Fuel Cap	1
10	46-6560	Bushing	1
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
19	217-117	Rim	2

Ref. No.	Part No.	Description	No. Used
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	63-7371	Tank — Fuel	1
33	2412-108	Clamp	12
34	46-6550	Connector 90°	1
35	52-1890	Wellnut — Rubber	1
36	52-2860	Washer	1
37	52-1880	Adapter	1
38	353-536	Fitting 90°	1
39	71-3380	Hose — Fuel	1



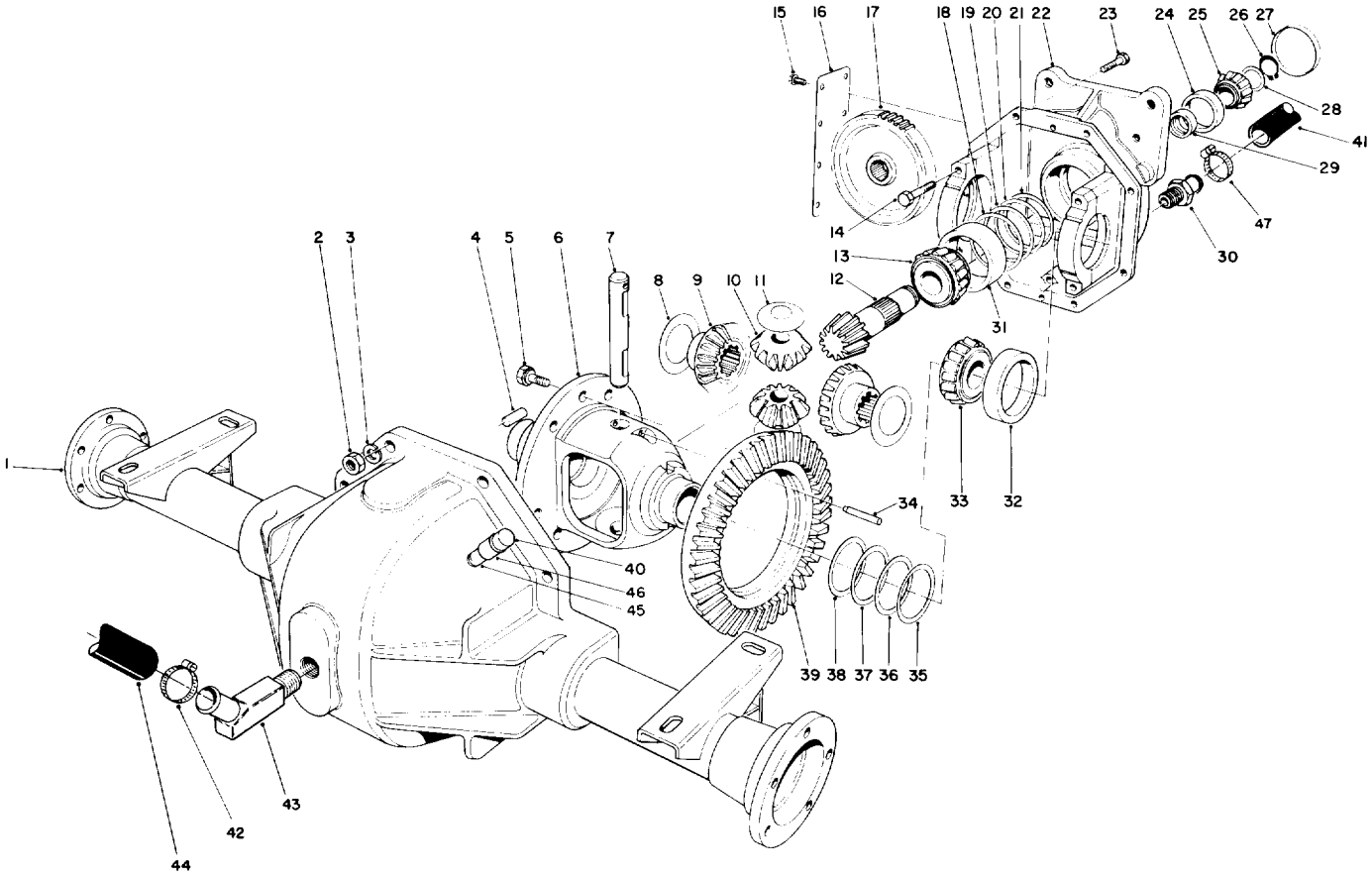
T-0604-89

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



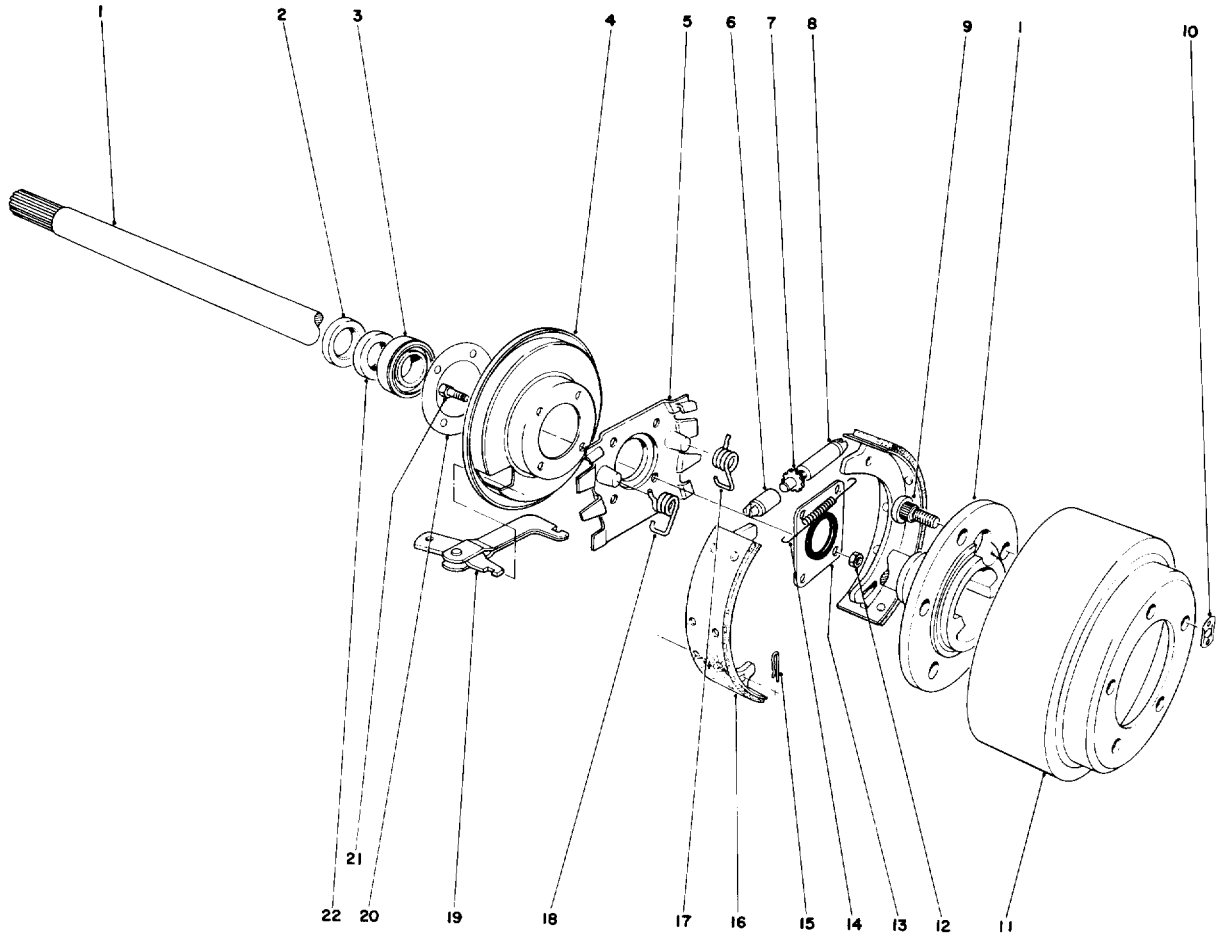
T-0604-89

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	2412-34	Clamp — Hose	2

*Not Illustrated



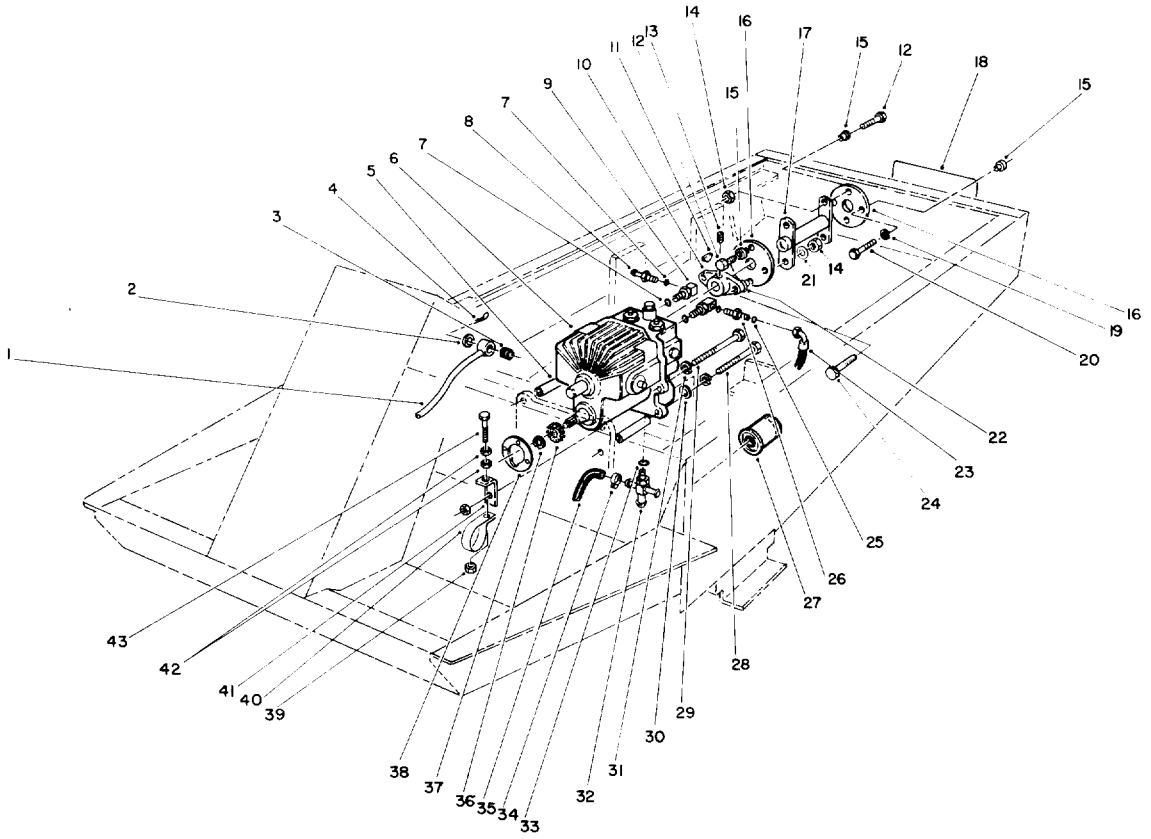
T-0535-89

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

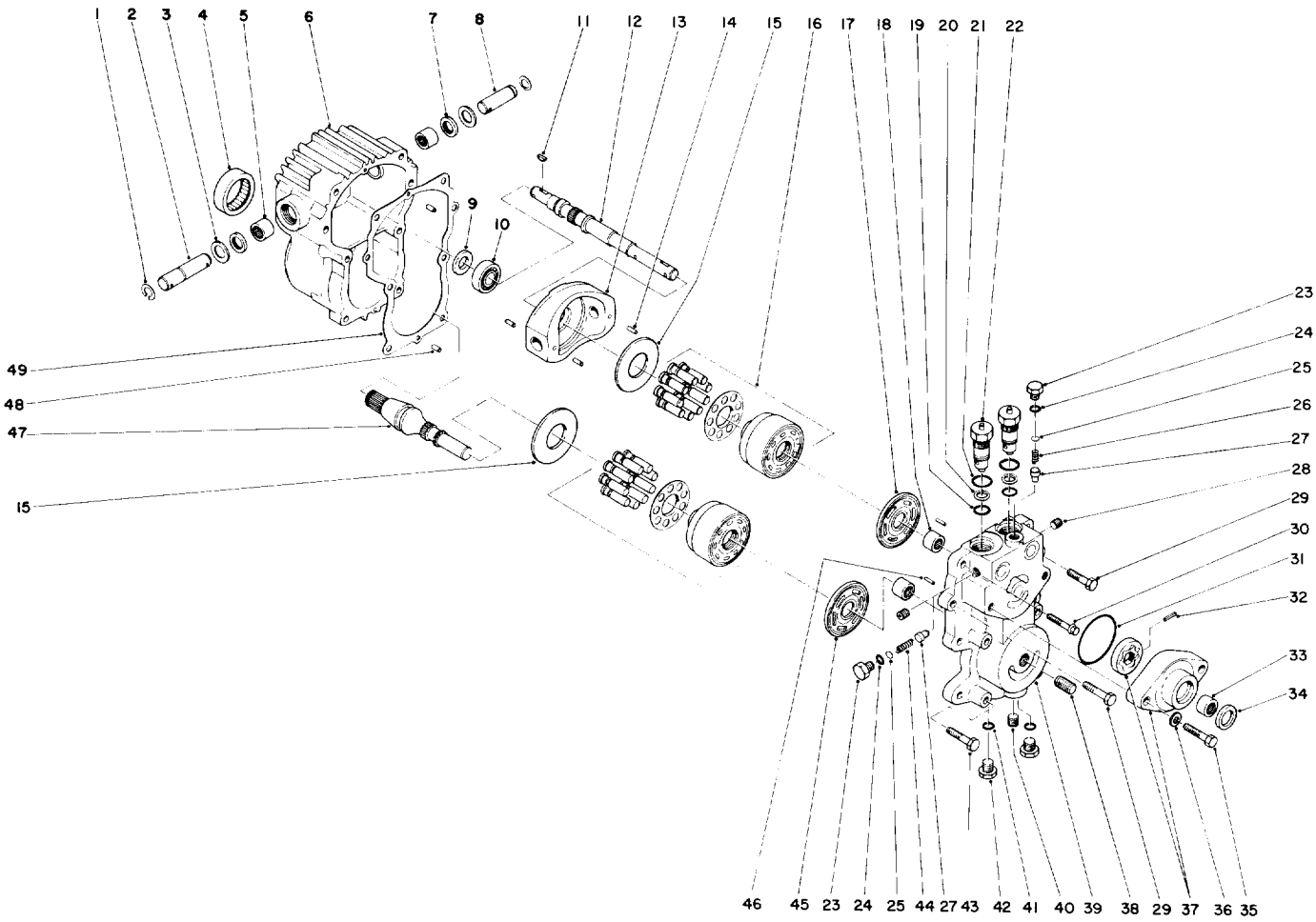


T-0605-89

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	3241-6	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	66-8160	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

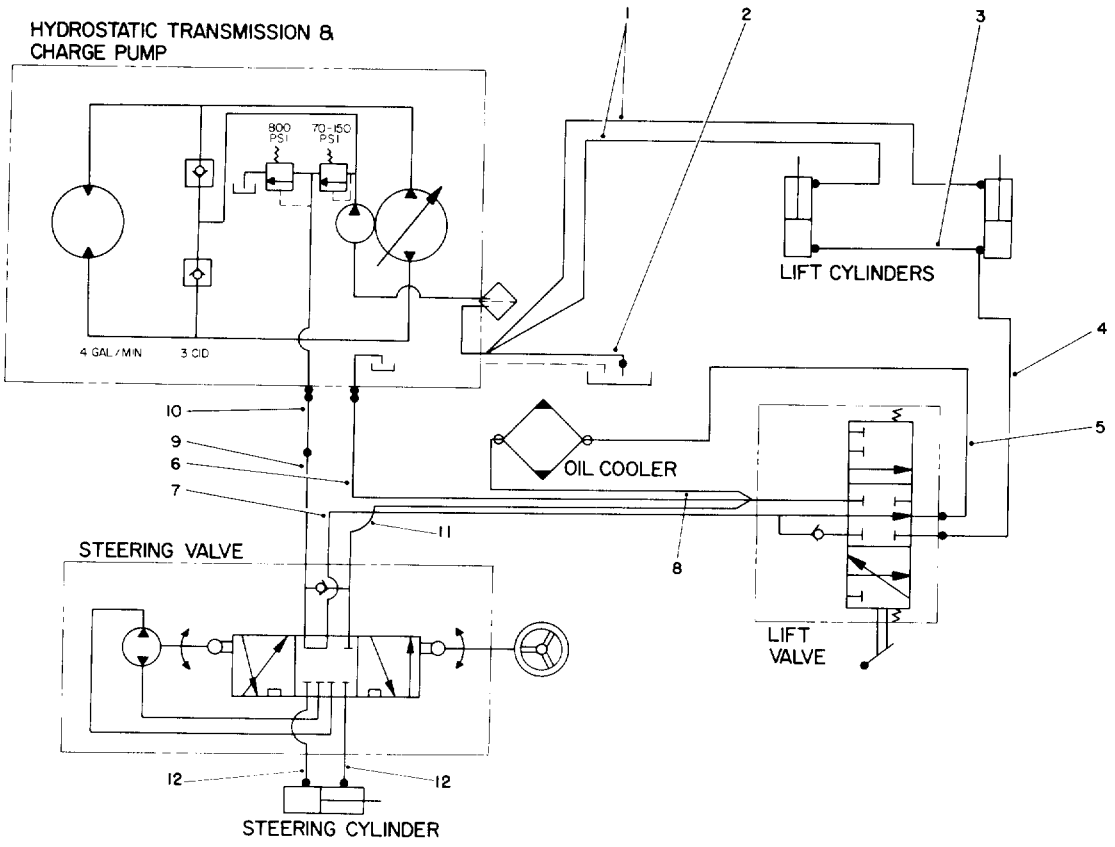


T-0536-89

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	353-599	Pin	2
49	28-3340	Gasket	1

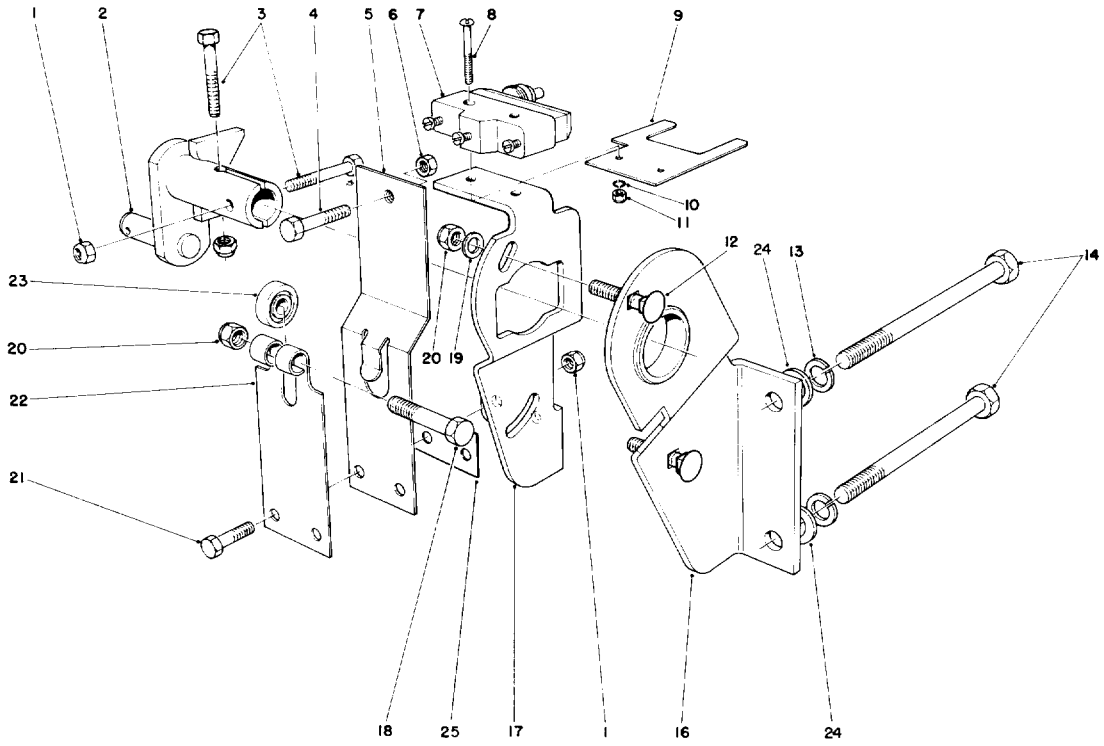


T-0537-89

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

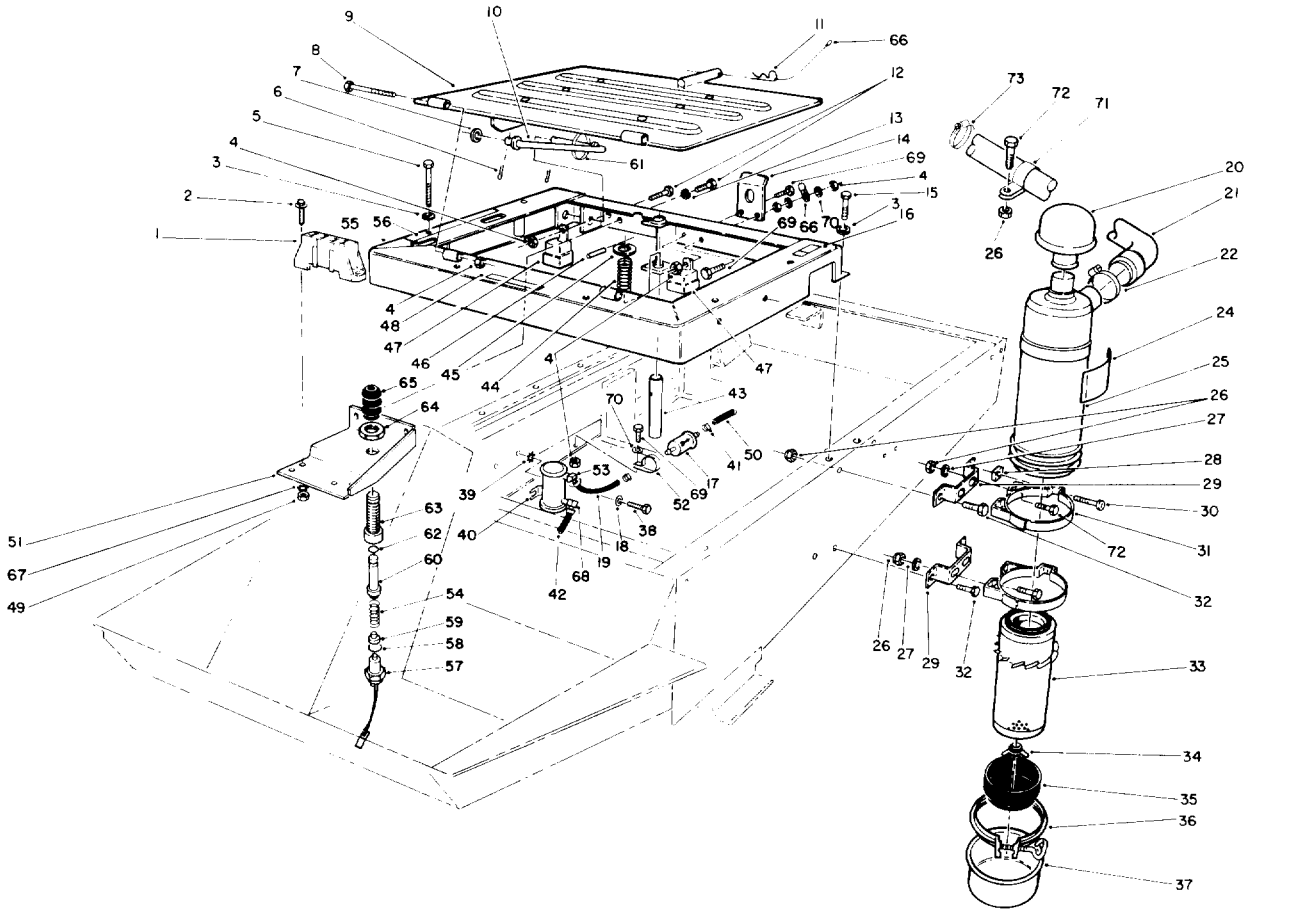


T-0538-89

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	29-6161	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	27-3680	Washer Flat	4
25	51-3150	Shim	1

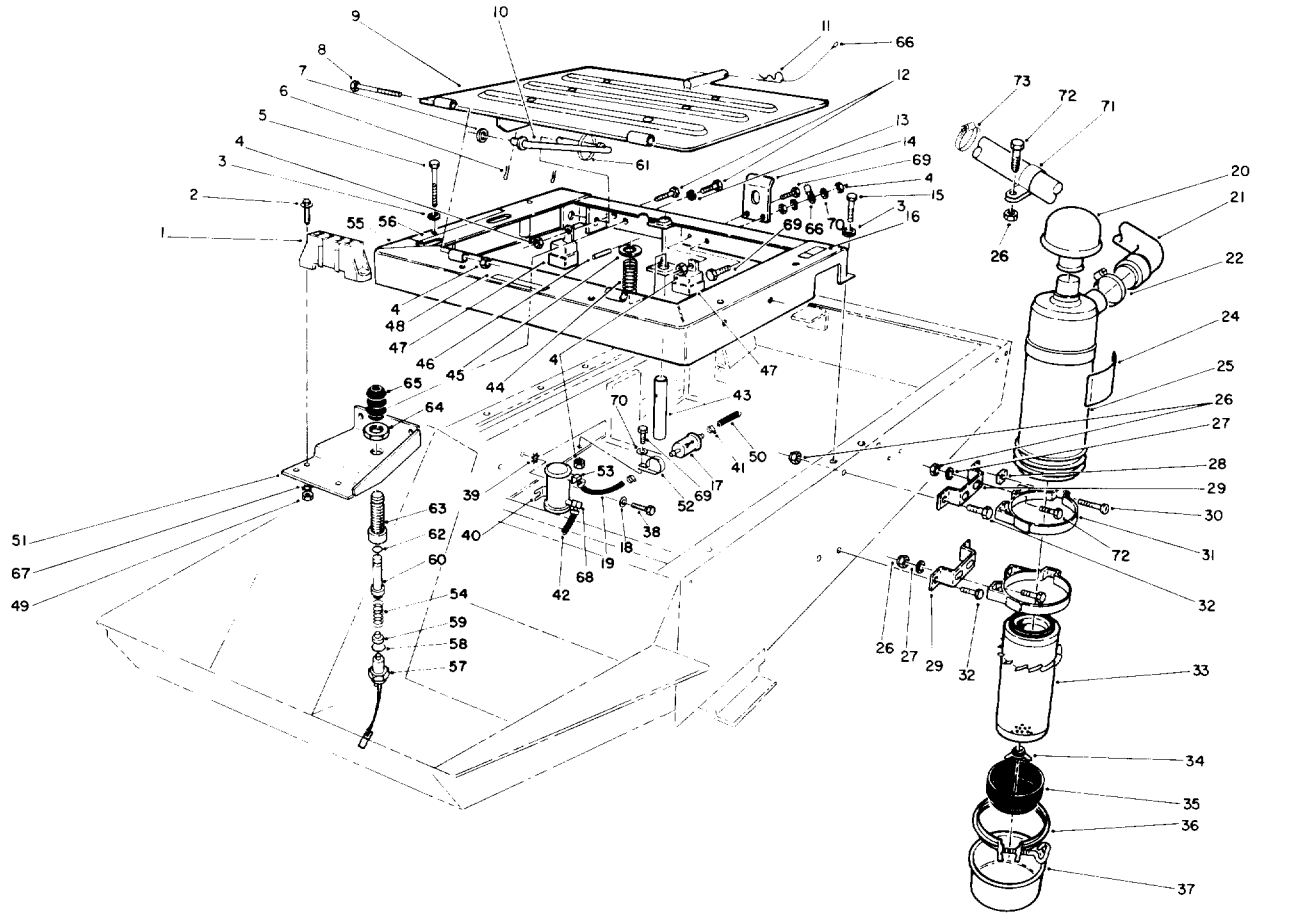


T-0839-89

SEAT FRAME & AIR CLEANER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	67-7160	Fuse Block	1
2	3290-126	Capscrew	2
3	3256-70	Washer — Flat	8
4	3296-42	Nut	10
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	8
13	3253-3	Lockwasher	3
14	66-2630	Latch — Seat	1
15	322-45	Capscrew	2
16	71-3730	Decal — Gas	1
17	18-1520	Filter Fuel	1
18	3256-22	Washer — Flat	2
19	71-3381	Hose	1
20	27-7180	Cap Assembly	1
21	71-3470	Hose —Air Cleaner Inlet	1
22	2412-42	Hose Clamp	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	3296-29	Nut — Lock	4
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	2
40	53-8150	Fuel Pump	1
41	2412-36	Hose Clamp	4
42	71-3380	Hose	1
43	66-2590	Pin — Seat Spring	1
44	37-9590	Spring — Compression	1

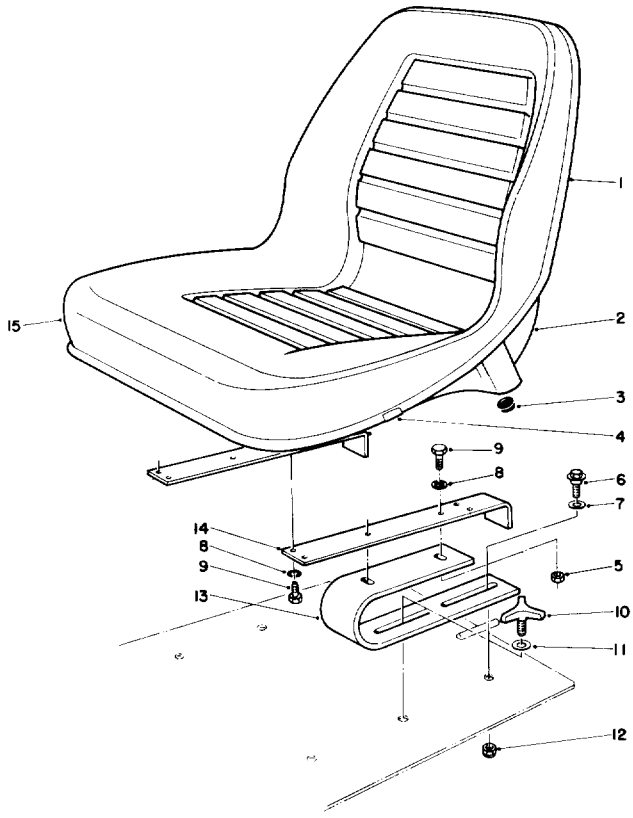


SEAT FRAME & AIR CLEANER ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
45	3256-27	Washer — Flat	1
46	32121-6	Roll Pin	1
47	63-7590	Relay	1
48	67-1710	Decal — Interlock	1
49	3296-12	Nut	2
50	71-3382	Hose — Fuel	1
51	70-7290	Bracket — Seat Switch	1
52	2412-96	Clamp	1
53	353-705	Fitting — Fuel 45° Barb	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
59	43-8610	Guide — Spring & Ball Seat	1

Ref. No.	Part No.	Description	No. Used
60	43-8860	Plunger — Switch	1
61	3290-318	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 — External Tooth	2
68	67-1690	Fitting	1
69	321-6	Screw — Hex. Hd.	3
70	3256-22	Washer — Flat	5
71	2412-107	R-Clamp	1
72	322-3	Capscrew Hex. Hd.	2
73	2412-92	Clamp — Hose	1
*	43-9071	Switch Assembly (Incl. Ref. #54, 57-60 & 62-65)	1

*Not Illustrated



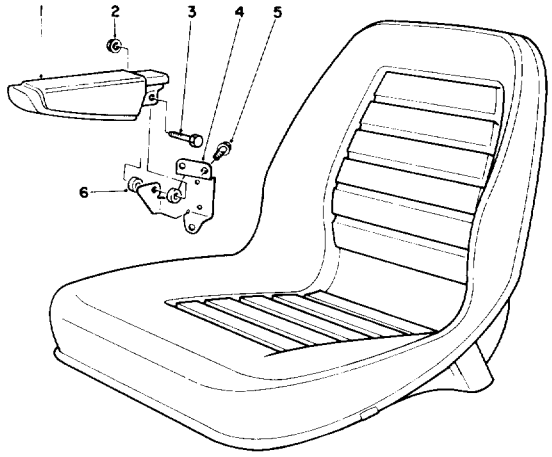
T-0777-89

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



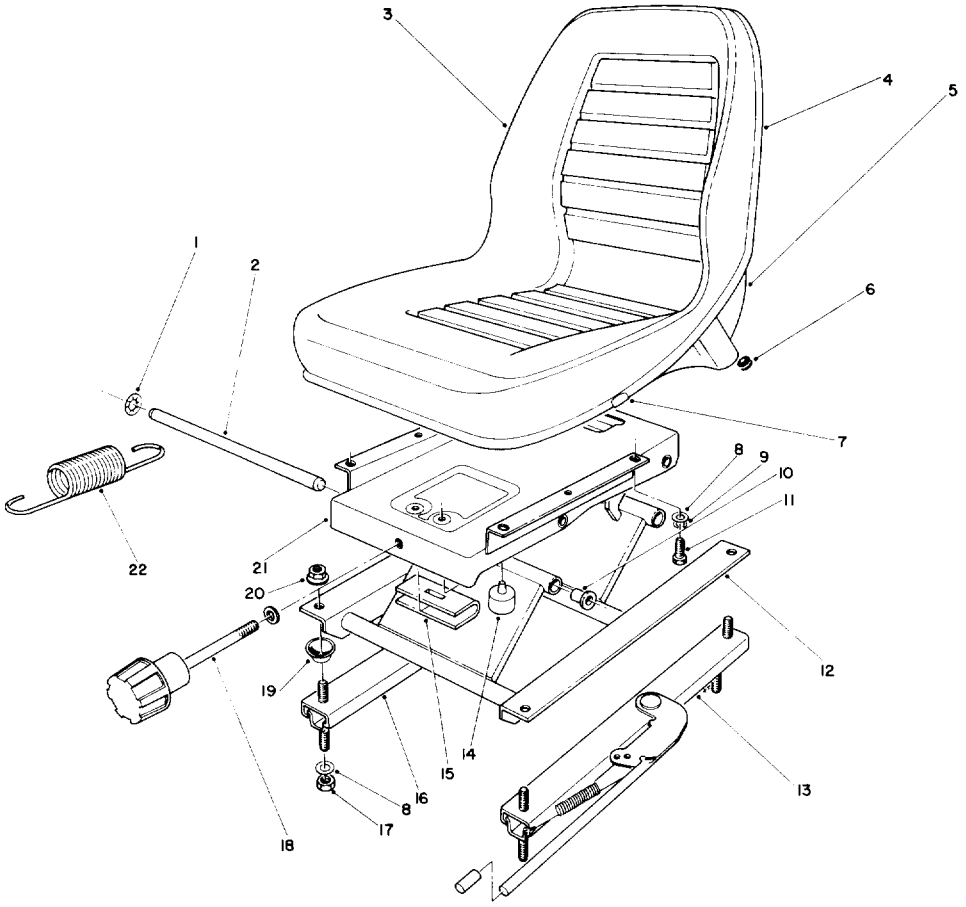
T-0634-89

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



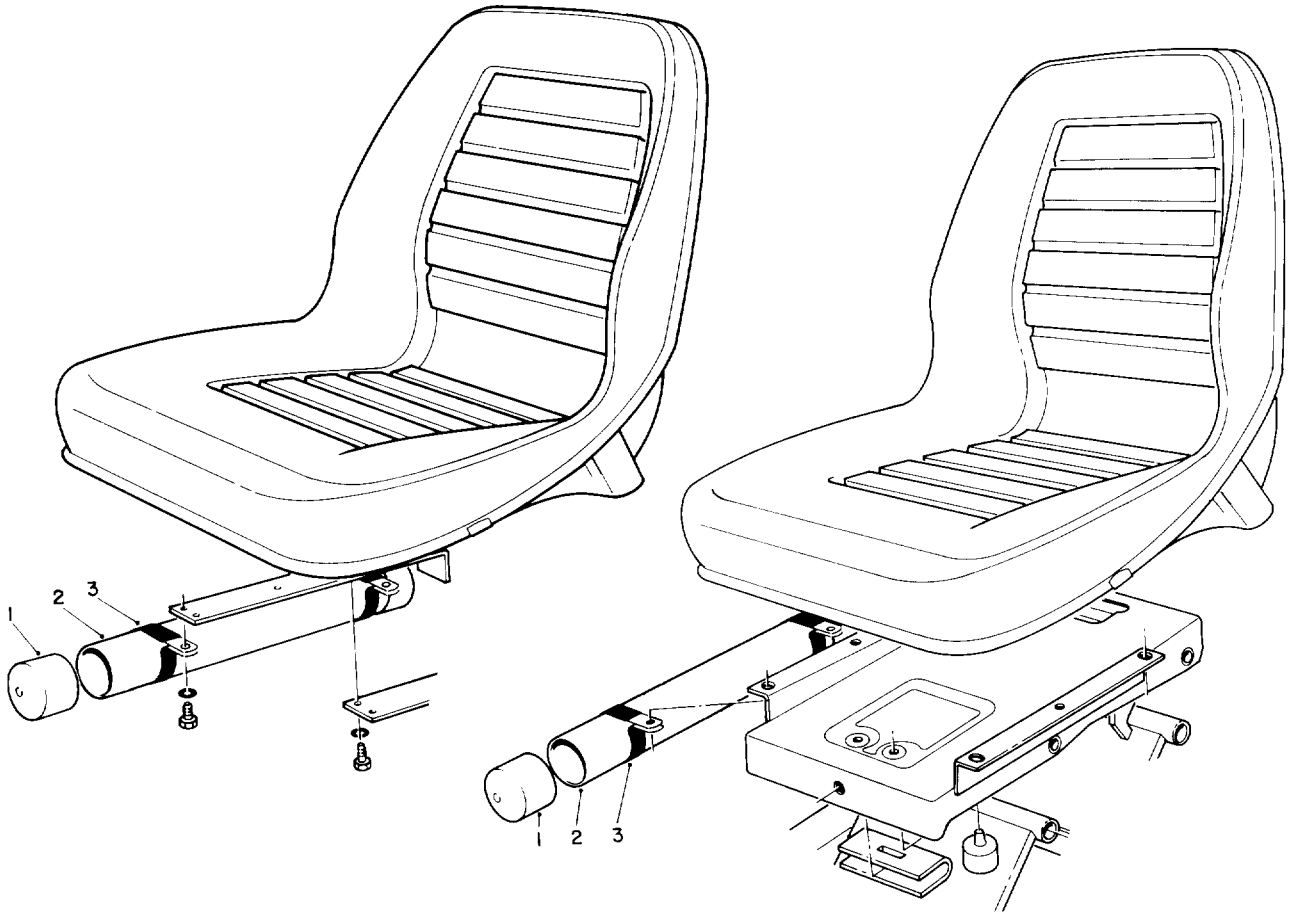
T-0776-89

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

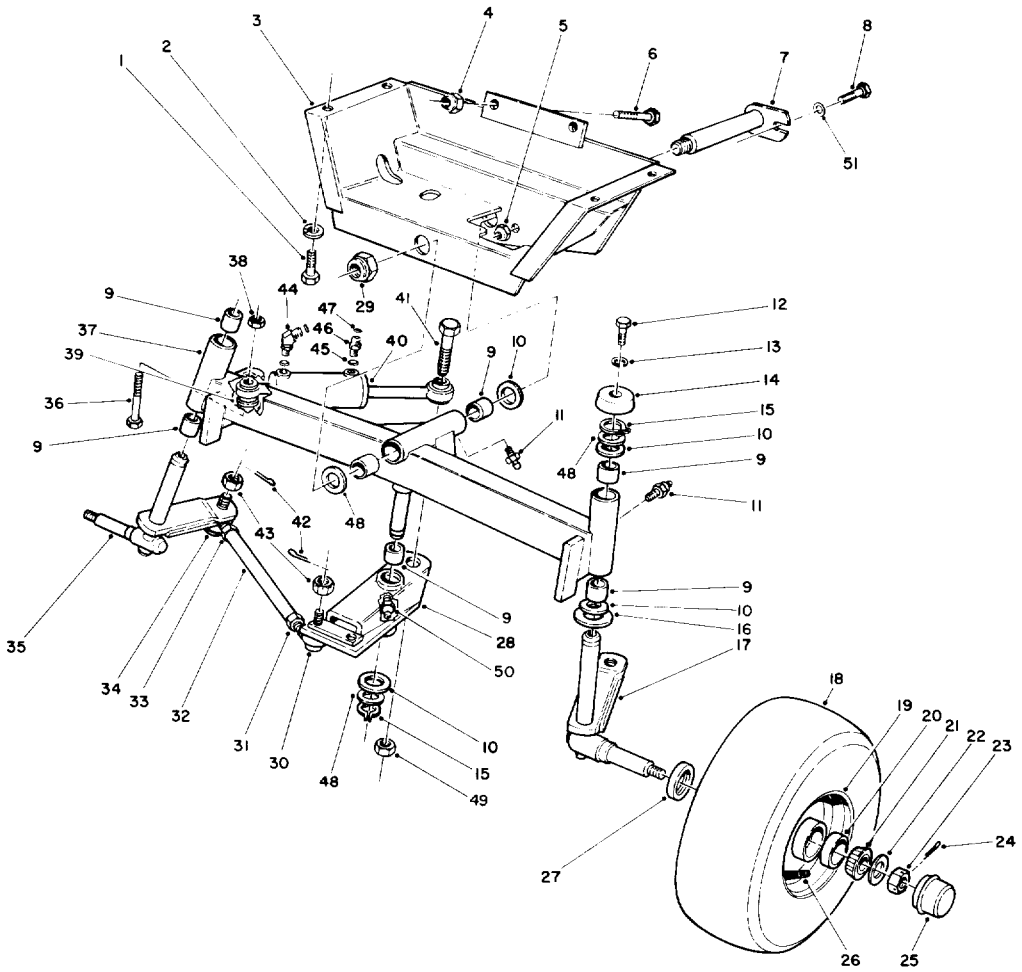


T-0778-89

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

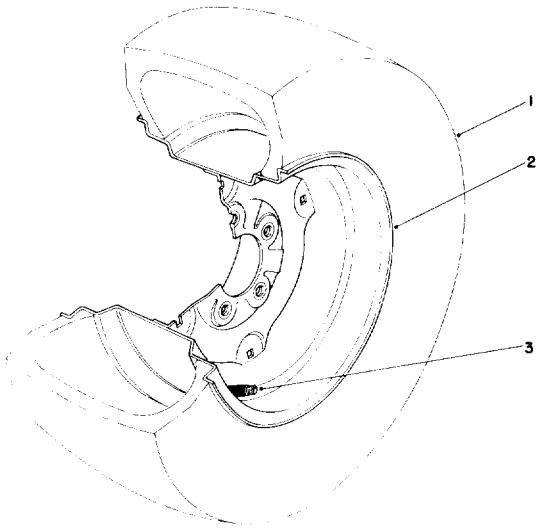
Ref. No.	Part No.	Description	No. Used



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

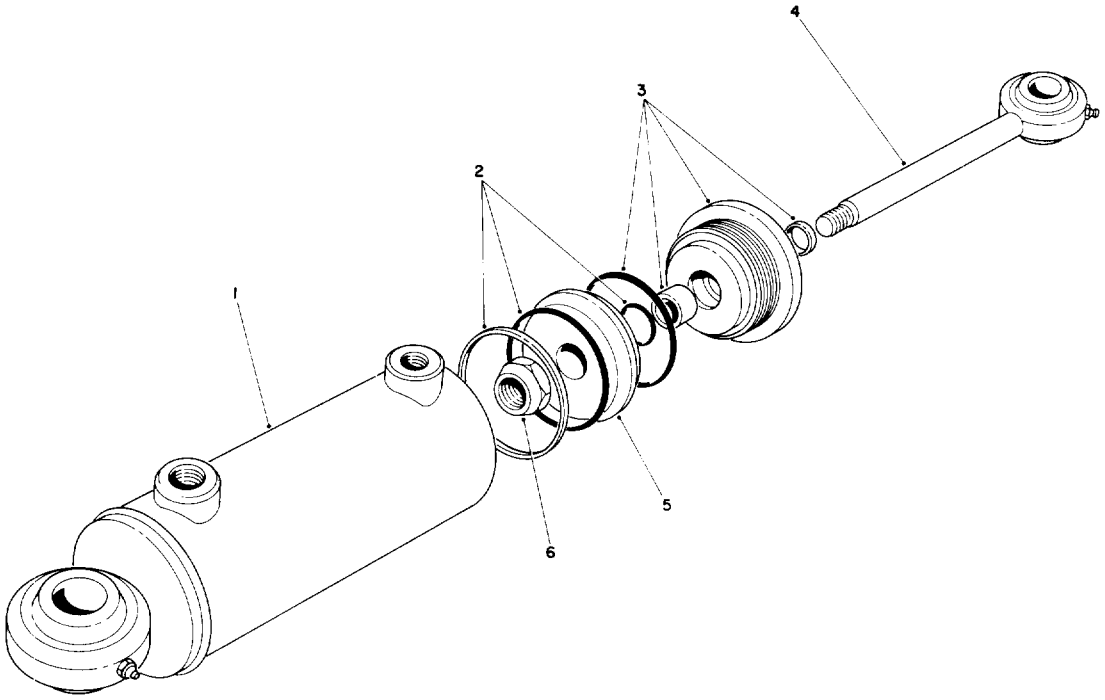


T-0449-89

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

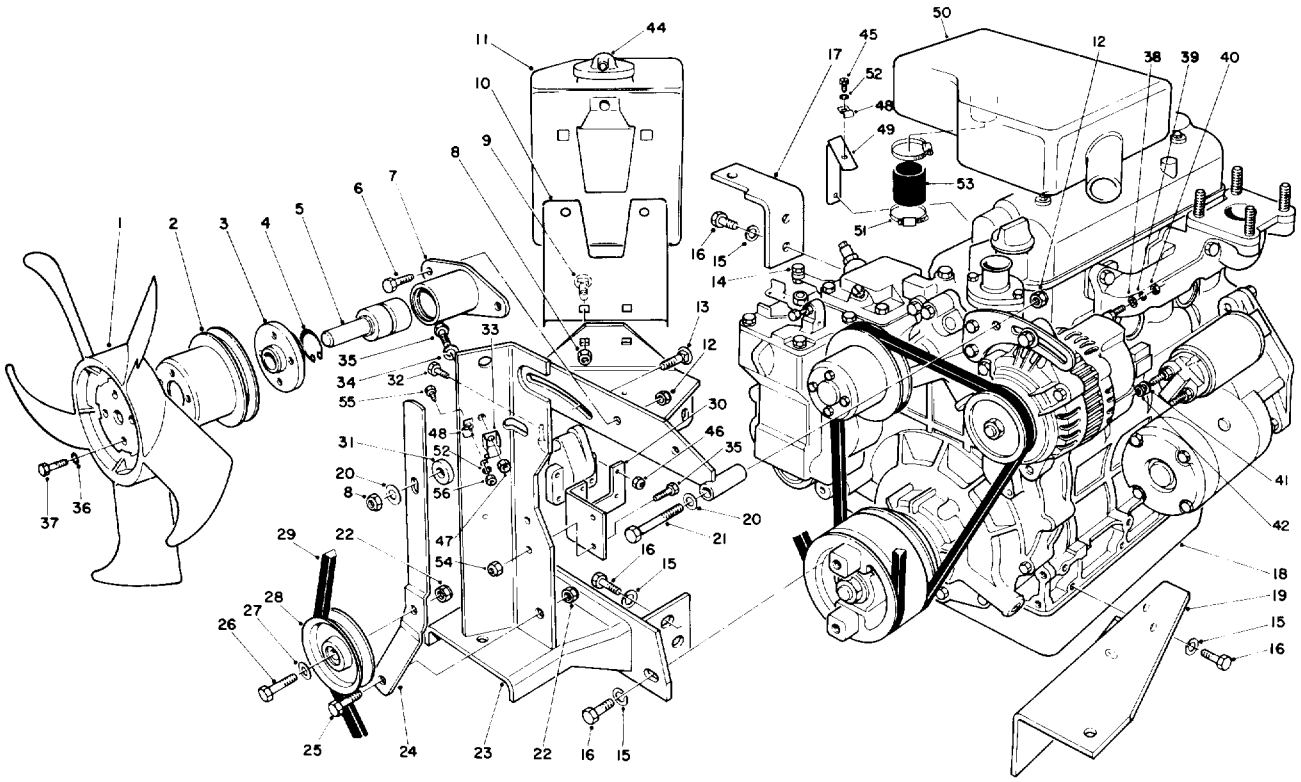


T-0541-89

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

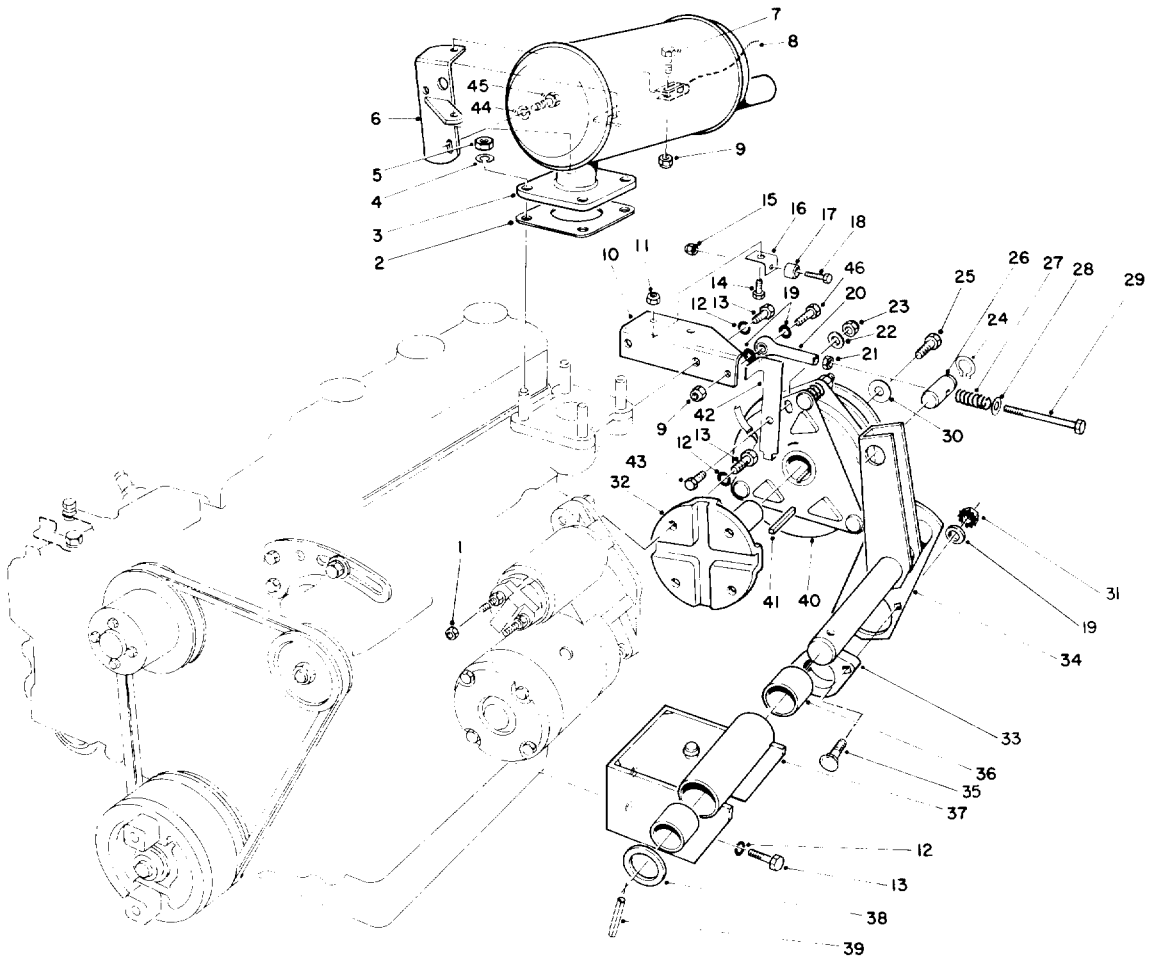


T-0838-89

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	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	68-9960	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	1
24	63-6720	Lever, Idler	1
25	323-6	Screw	1
26	323-8	Screw	1
27	3256-24	Washer	1

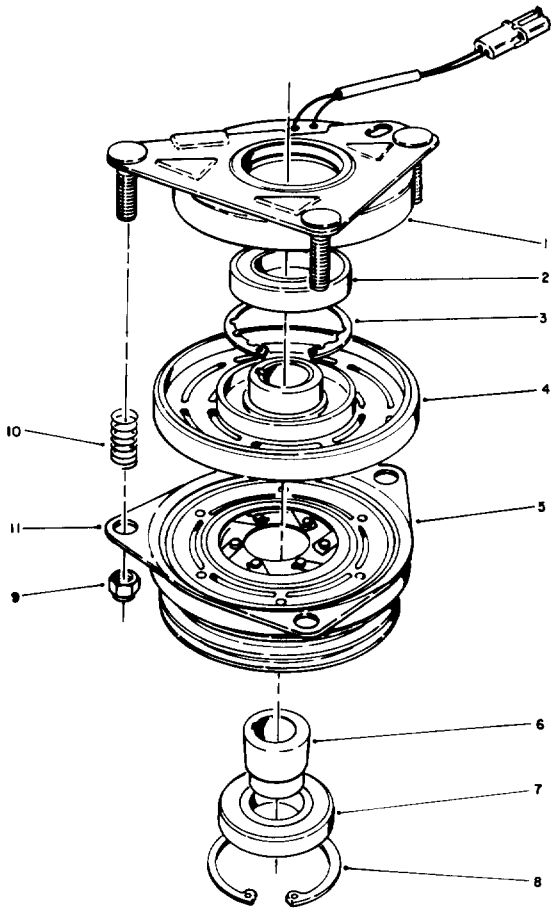
Ref. No.	Part No.	Description	No. Used
28	63-8140	Pulley	1
29	63-7130	Belt, Fan	1
30	71-2980	Bracket — Coil	1
31	27-9560	Spacer	1
32	3290-360	Screw — Cap Hex Hd.	4
33	3-6657	Clip — Skid	1
34	3253-3	Washer — Lock	1
35	321-4	Screw — Cap Hex. Hd.	3
36	3253-3	Washer, Lock	4
37	321-3	Screw	4
38	5-3637	Washer — 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
44	71-1520	Cap — Reservoir	1
45	32105-8	Screw	2
46	3296-2	Nut — Lock	4
47	3217-5	Nut — Hex	1
48	2412-58	Clamp	2
49	71-1460	Bracket — Clamp	1
50	71-2900	Induction Chamber	1
51	2412-92	Clamp	2
52	3253-2	Washer — Lock	2
53	71-3530	Hose — Carburetor	1
54	3296-42	Nut — Lock	2
55	32105-13	Screw — Cap Hex. Hd.	1
56	3217-26	Nut — Hex	1



POWER TAKE-OFF ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	57-6390	Nut Hex	2
2	53-8130	Gasket — Exhaust	1
3	63-6810	Muffler	1
*	66-1540	Spark Arrestor — 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	1
8	66-2870	Cable, Hood Stop	1
9	3296-39	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, Pan Head	2
19	3256-23	Washer	8
20	66-2900	Tie Rod End	1
21	3220-2	Nut, Jam	1
22	3256-24	Washer, Flat	1

Ref. No.	Part No.	Description	No. Used
23	3296-39	Nut — Hex Lock	1
24	32151-83	Snap Ring	2
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
32	63-6030	Hub, Clutch	1
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	3253-4	Washer — Lock	1
45	66-3160	Screw	1
46	322-6	Capscrew	1

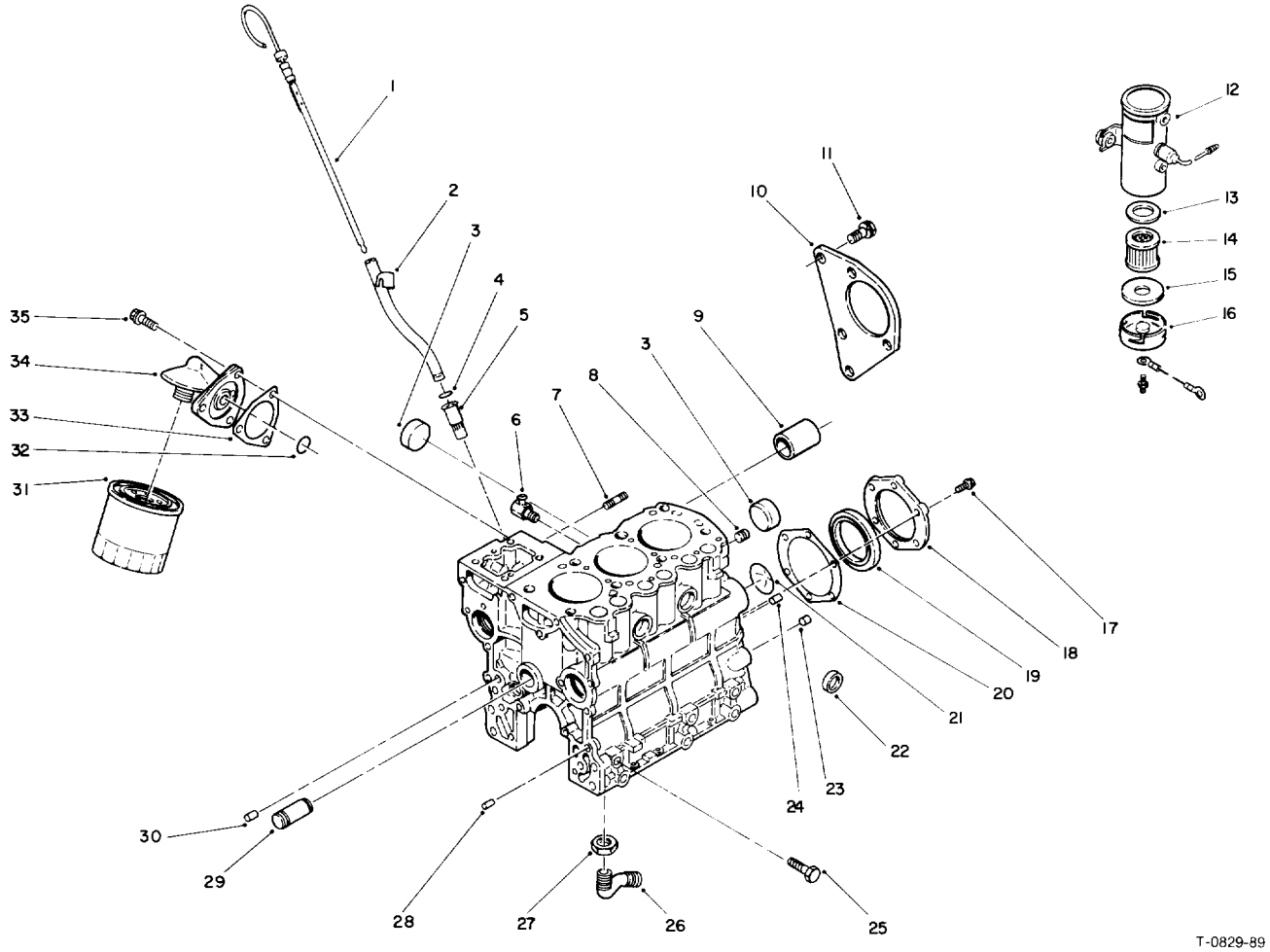


T-0544-89

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

Ref. No.	Part No.	Description	No. Used
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

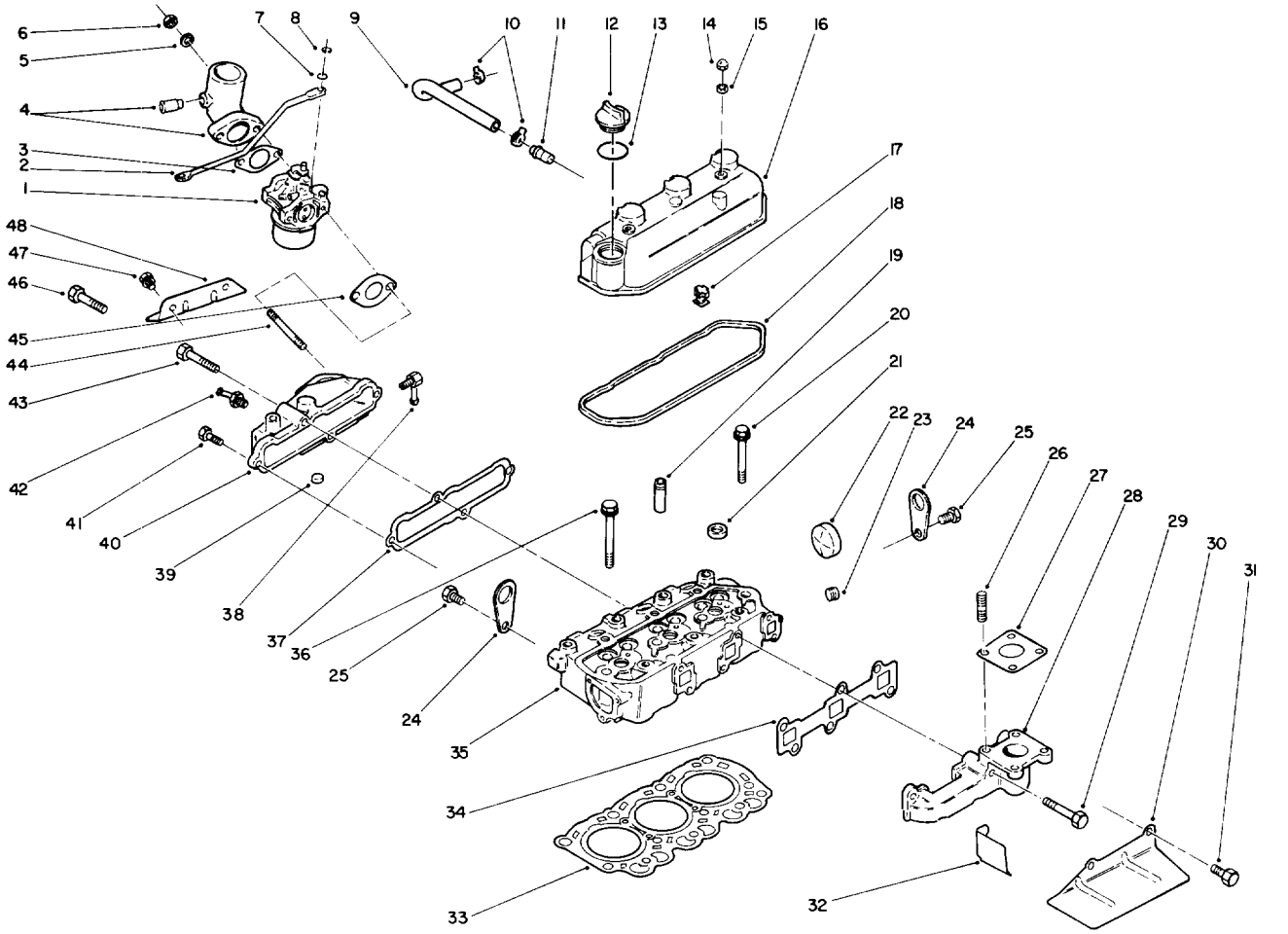


ENGINE BLOCK ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	72-6970	Gauge — Oil Level	1
2	70-8880	Guide — Oil Level Gauge	1
3	56-0020	Cap — Expansion	3
4	43-2710	O-Ring	1
5	72-6950	Retainer — Gauge Guide	1
6	72-6940	Joint — Water Drain	1
7	42-9560	Stud	1
8	67-2390	Plug — Taper	1
9	72-6010	Sleeve	1
10	67-2430	Bracket Starter	1
11	67-2440	Bolt w/Washer	3
12	53-8150	Pump Assembly — Electric Fuel (Incl. Ref. #13 - 16)	1
13	43-2570	Gasket — Coil Side	1
14	43-2550	Filter	1
15	43-2560	Gasket — Cover Side	1
16	43-2580	Magnet	1
17	67-2330	Bolt	6
18	67-2270	Case — Oil Seal	1
19	67-2230	Oil Seal	1

Ref. No.	Part No.	Description	No. Used
20	67-2280	Gasket — Oil Seal Case	1
21	67-2350	Plug Expansion	1
22	42-7080	Cap Sealing	2
23	67-2380	Bushing — Knock	3
24	67-2360	Bushing — Knock	2
25	67-2460	Bolt	4
26	67-4340	Screen Assembly — Oil (Incl. Ref. #27)	1
27	42-9650	Jam Nut	1
28	67-2370	Bushing — Knock	1
29	67-2260	Shaft Idler	1
30	42-7190	Bushing — Knock	2
31	67-4330	Filter Assembly — Oil	1
32	72-6990	O-Ring	1
33	72-6040	Gasket — Oil Filter Bracket	1
34	72-6030	Bracket — Oil Filter	1
35	72-6980	Bolt	3
*	72-6920	Gasket Kit	1
*	72-6000	Cylinder Block Assy	1

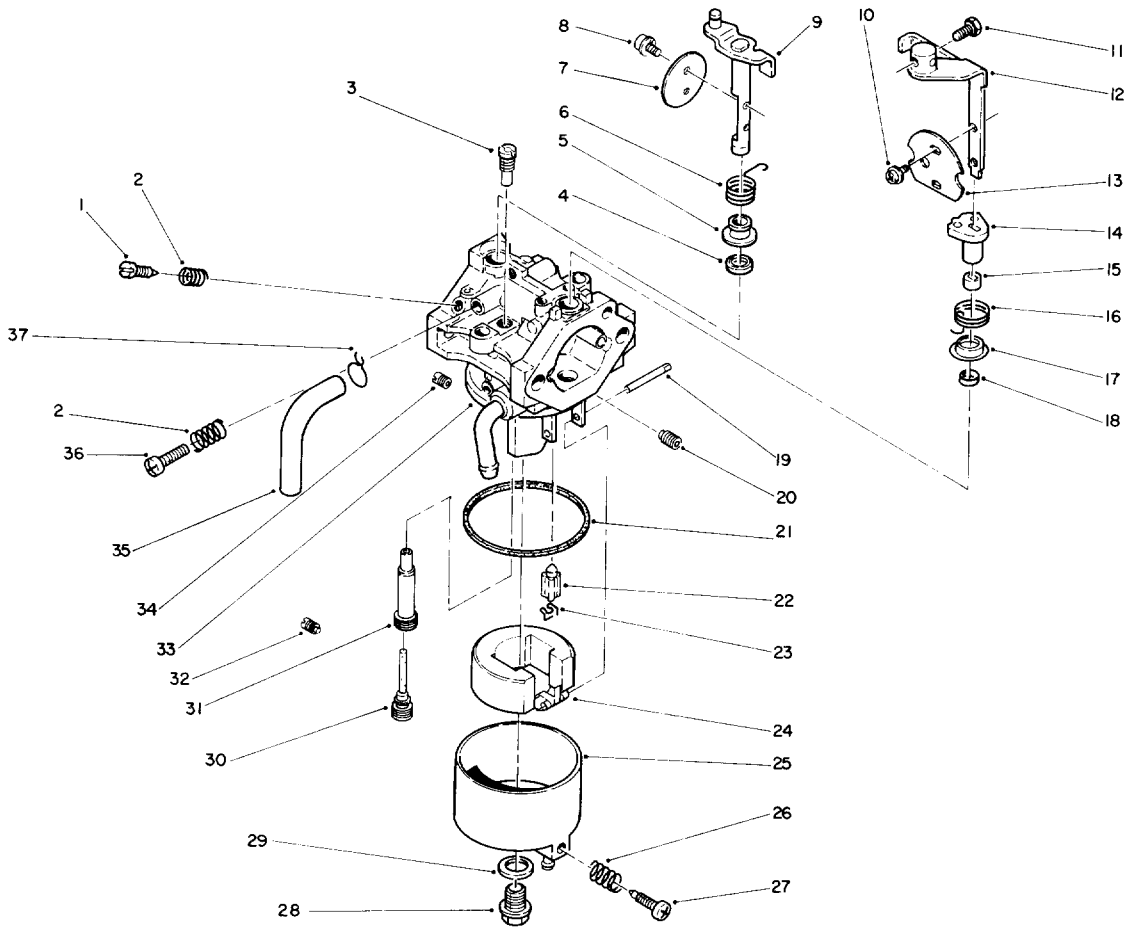
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CARBURETOR, CYLINDER HEAD AND MANIFOLD ASSEMBLIES

Ref. No.	Part No.	Description	No. Used
1	72-6260	Carburetor Assembly	1
2	72-6220	Rod — Link	1
3	72-6230	Gasket — Intake Pipe	1
4	72-6250	Pipe — Intake	1
5	72-7000	Lockwasher	2
6	67-4290	Nut	2
7	72-6210	Washer	2
8	67-4300	Snap Ring	2
9	72-7170	Pipe — Air Breather	1
10	72-7160	Clip — Hose	2
11	42-7510	Pipe	1
12	67-2650	Cap Assembly — Oil Filler (Incl. Ref. #13)	1
13	67-2660	O-Ring	1
14	67-2770	Nut — Cap	2
15	67-2780	Washer — Flat	2
16	67-2750	Cover Assembly — Rocker Arm (Incl. Ref. #11)	1
17	72-6070	Separator — Oil	1
18	67-2760	Gasket — Rocker Arm Cover	1
19	67-2700	Guide — Valve	6
20	67-2740	Bolt — Flange	3
21	67-2710	Cap — Sealing	3
22	56-0020	Plug Expansion	1
23	67-2570	Plug Taper	1
24	67-2680	Hanger — Engine	2

Ref. No.	Part No.	Description	No. Used
25	67-2340	Bolt w/Washer	2
26	42-9570	Stud	4
27	42-9110	Gasket	1
28	67-4560	Manifold — Exhaust	1
29	67-4580	Bolt	2
30	72-7020	Cover — Starter	1
31	67-4590	Bolt	4
32	72-6140	Cover — Alternator	1
33	67-2720	Gasket — Cylinder Head	1
34	67-4570	Gasket Exhaust Manifold	1
35	72-6050	Cylinder Head Assembly (Incl. Ref. #19 & 21-23)	1
36	67-2730	Bolt — Cylinder Head	8
37	67-4550	Gasket — Intake Manifold	1
38	72-6110	Joint	1
39	67-2710	Cap Sealing	1
40	72-6090	Cover Assembly Intake (Incl. Ref. #38, 39 & 42)	1
41	67-2330	Bolt	2
42	72-6120	Joint	1
43	67-2620	Bolt	1
44	72-6150	Stud	2
45	72-6240	Gasket — Carburetor	1
46	67-4400	Bolt	1
47	72-7100	Bolt	2
48	72-6130	Cover — Distributor	1

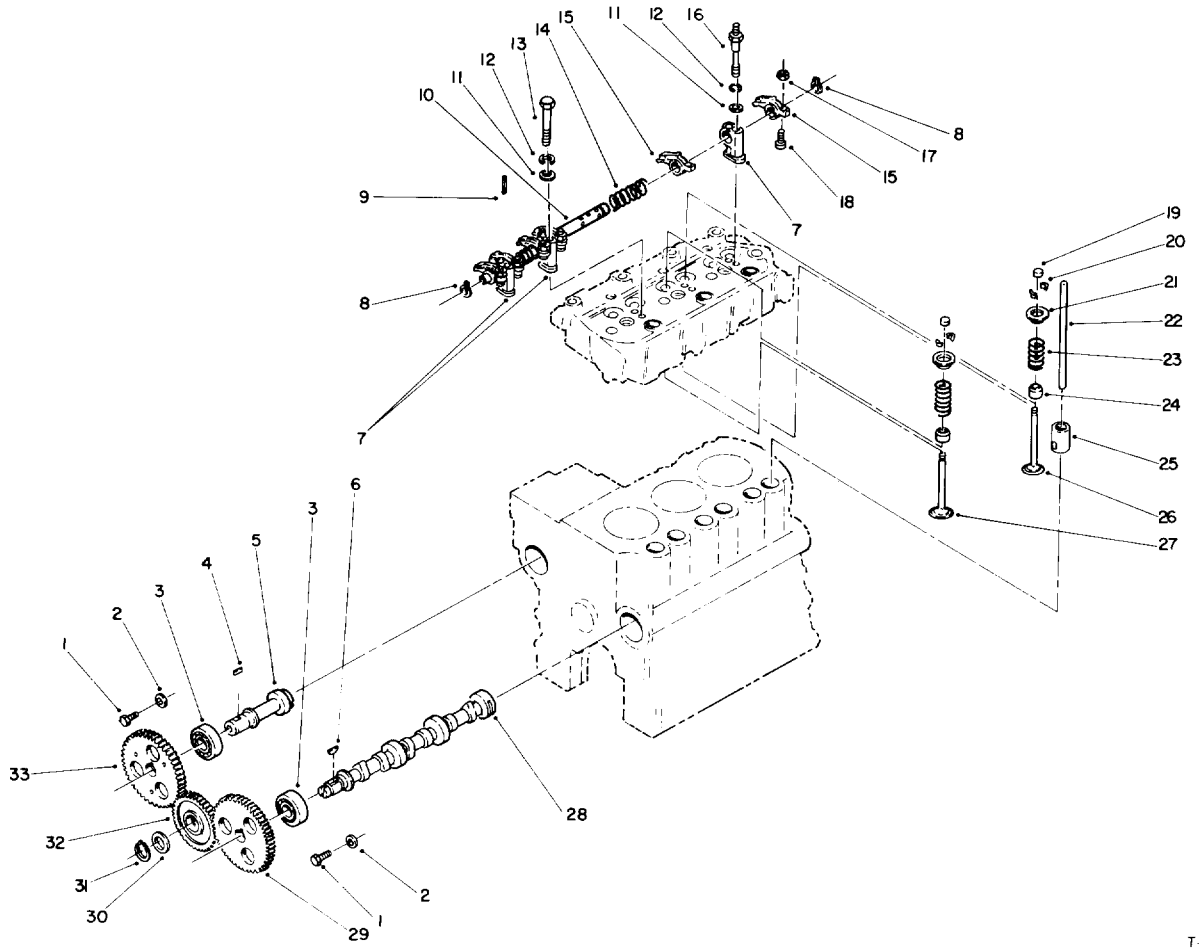


T-0833-89

CARBURETOR ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	72-6580	Adjuster Assembly	1
2	72-6570	Spring	2
3	72-6420	Jet, Pilot (40)	1
4	72-6320	Seal	1
5	72-6310	Ring	1
6	72-6300	Spring	1
7	72-6280	Valve, Throttle	1
8	72-6270	Screw	2
9	72-6290	Shaft Assembly, Throttle	1
10	72-6330	Screw	2
11	72-6360	Bolt	1
12	72-6350	Lever Assembly, Choke	1
13	72-6340	Valve, Choke	1
14	72-6370	Ring	1
15	72-6380	Ring	1
16	72-6390	Spring	1
17	72-6400	Cap	1
18	72-6410	Seal	1
19	72-6480	Pin	1

Ref. No.	Part No.	Description	No. Used
20	72-6490	Jet, Main Air (2.0)	1
21	72-6510	Gasket	1
22	72-6450	Needle Assembly	1
23	72-6460	Clip	1
24	72-6470	Float Assembly	1
25	72-6520	Body Assembly, Float	1
26	72-6550	Spring Stop	1
27	72-6560	Screw	1
28	72-6540	Bolt	1
29	72-6530	Gasket	1
30	72-6440	Nozzle	1
31	72-6430	Nozzle, Main	1
32	72-6650	Main Jet	1
33	72-6260	Carburetor Assembly (Incl. Ref. #1-31 & 33-37)	1
34	72-6500	Jet, Pilot Air (1.2)	1
35	72-6600	Hose	1
36	72-6610	Screw	1
37	72-6590	Clip, Spring	1

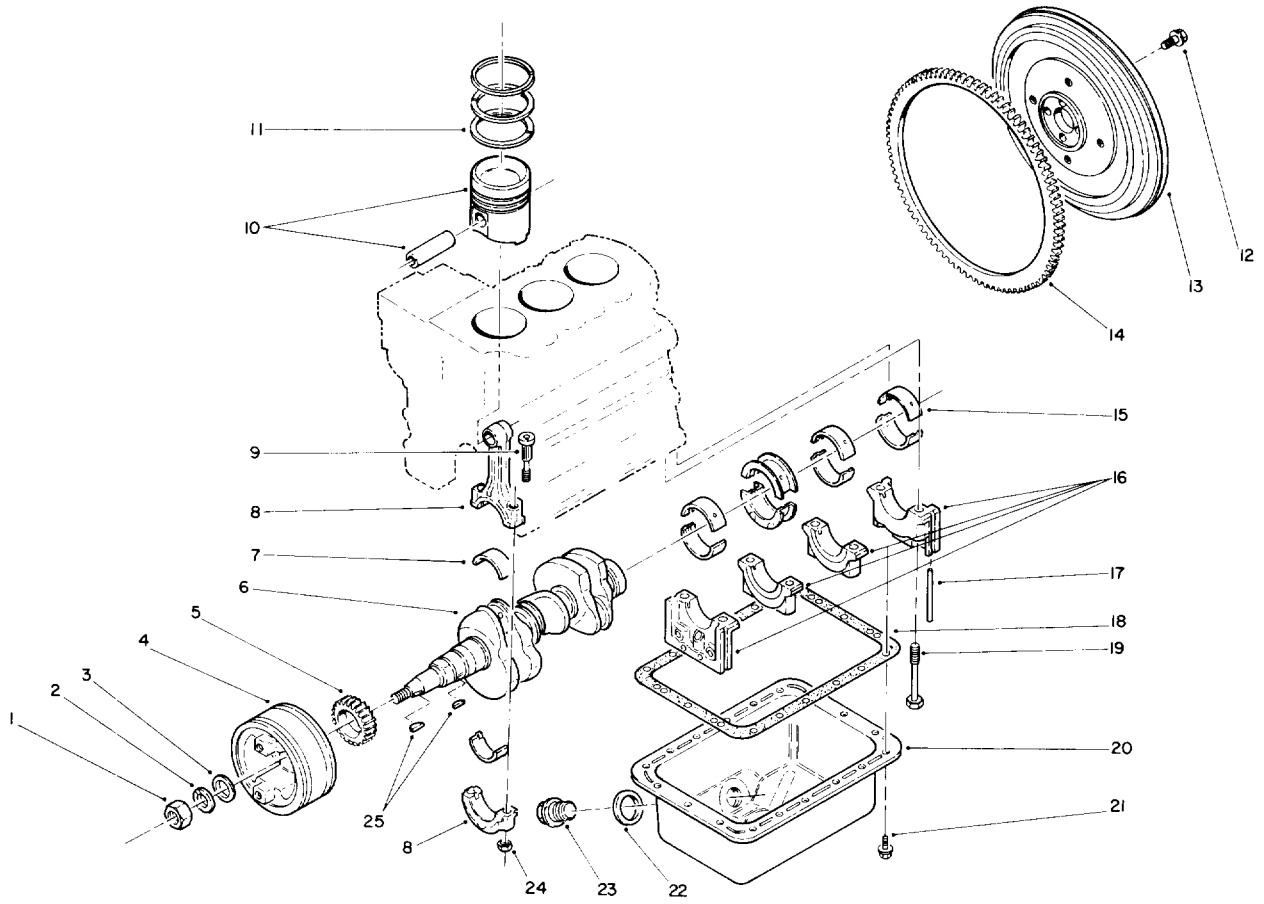


T-0828-89

CAMSHAFT & VALVE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	42-9490	Bolt w/Washer	1
2	67-3000	Washer, Camshaft Stopper	1
3	67-3030	Bearing, Ball	2
4	42-7840	Key, Sunk	1
5	72-6200	Shaft, Distributor	1
6	56-0480	Key, Woodruff	1
7	67-3200	Stay, Rocker	3
8	67-3240	Snap Ring	2
9	67-3220	Pin, Grooved	1
10	67-3190	Shaft Assembly, Rocker	1
11	42-9660	Washer, Plain	3
12	67-3260	Washer, Spring	3
13	42-9510	Bolt	1
14	67-3170	Spring, Rocker Shaft	2
15	67-3160	Arm, Rocker	6
16	67-3250	Bolt, Rocker Stay	2
17	67-3230	Nut, Jam	6

Ref. No.	Part No.	Description	No. Used
18	67-3210	Screw, Adjusting	6
19	67-3180	Cap, Valve Stem	6
20	42-7860	Lock, Valve Spring Retainer	12
21	67-3100	Retainer, Valve Spring	6
22	67-3150	Rod, Push	6
23	67-3110	Spring, Valve	6
24	42-7870	Seal, Valve Stem	6
25	67-3120	Tappet	6
26	67-3140	Valve, Exhaust	3
27	67-3130	Valve, Intake	3
28	67-3010	Camshaft	1
29	67-3020	Gear, Camshaft	1
30	67-3040	Spacer	1
31	56-1060	Snap Ring	1
32	67-3090	Gear Assembly, Idler	1
33	67-3070	Gear, Fuel Injection Pump Cam	1



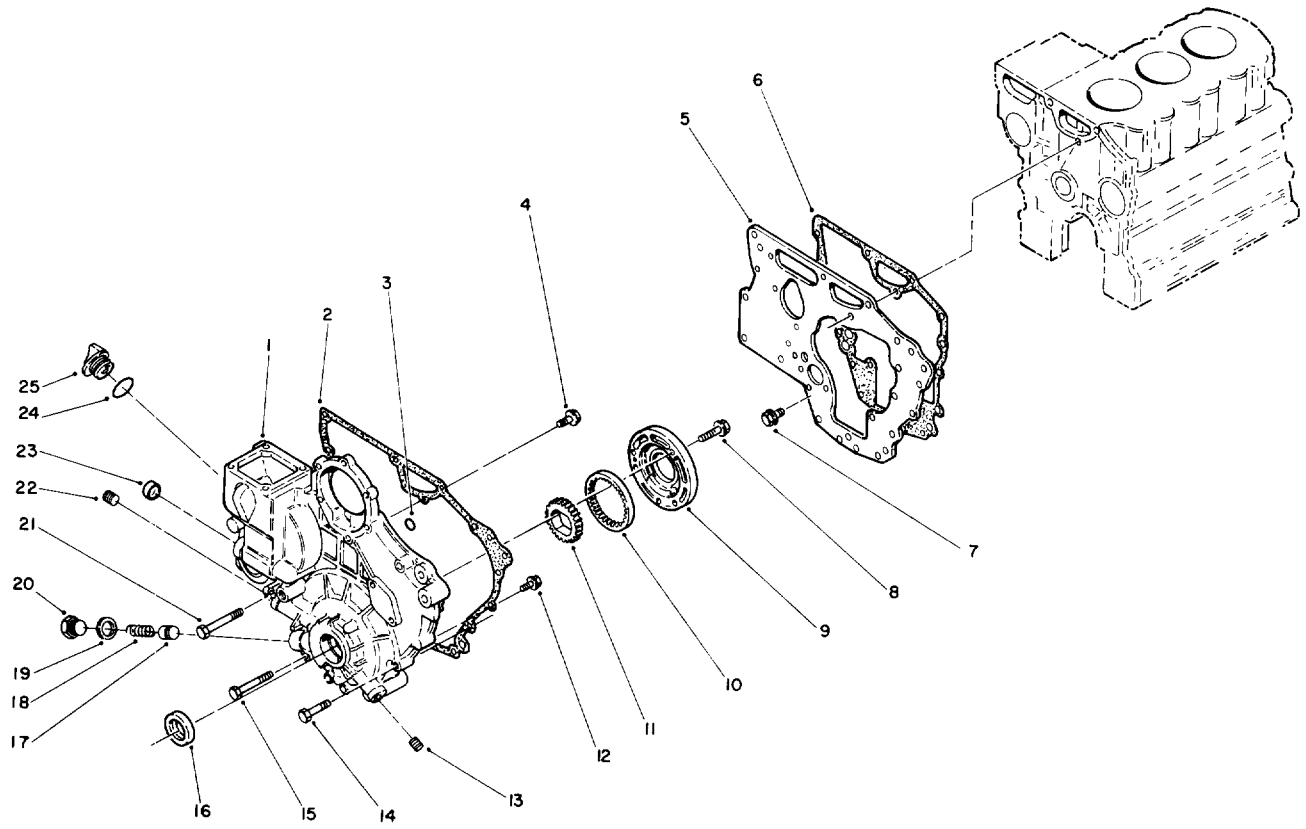
T-0830-89

PISTON, CAMSHAFT & FLYWHEEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	67-2940	Nut, Jam	1
2	67-2960	Washer, Spring	1
3	67-2950	Washer, Plain	1
4	67-2930	Pulley, Crankshaft	1
5	67-2910	Gear, Crankshaft	1
6	67-2920	Crankshaft	1
7	67-2880	Bearing Set, Connecting Rod Std.	3
*	67-2890	Bearing Set, Connecting Rod 0.25 US	3
*	67-2900	Bearing Set, Connecting Rod 0.50 US	3
8	67-2850	Rod Assembly, Connecting (Incl. Ref. #9 & 24)	3
9	67-2860	Bolt, Connecting Rod	6
10	72-6160	Piston & Pin Set Std.	3
*	72-6170	Piston & Pin Set 0.25 OS	3
*	72-6180	Piston & Pin Set 0.25 OS	3
11	67-2790	Ring Set, Piston Std.	3
*	67-2800	Ring Set, Piston 0.25 OS	3

Ref. No.	Part No.	Description	No. Used
*	67-2810	Ring Set, Piston 0.50 OS	3
12	67-2990	Bolt, Flywheel	4
13	67-2970	Flywheel Assembly (Incl. Ref. #14)	1
14	67-2980	Gear, Ring	1
15	67-2400	Bearing Set Crankshaft Std.	1
*	67-2410	Bearing Set Crankshaft 0.25	1
*	67-2420	Bearing Set Crankshaft 0.50	1
16		Cap Assembly Bearing	1
17	67-2200	Seal Slide	4
18	67-2480	Gasket, Oil Pan	1
19	67-2250	Bolt, Bearing Cap	1
20	67-2470	Pan Assembly, Oil (Incl. Ref. #22 & 23)	1
21	42-9490	Bolt, w/Washer	18
22	42-7290	Gasket, Oil Drain Plug	1
23	42-9260	Plug, Oil Drain	1
24	42-9590	Nut, Connecting Rod	6
25	56-0480	Key, Woodruff	2

*Not Illustrated

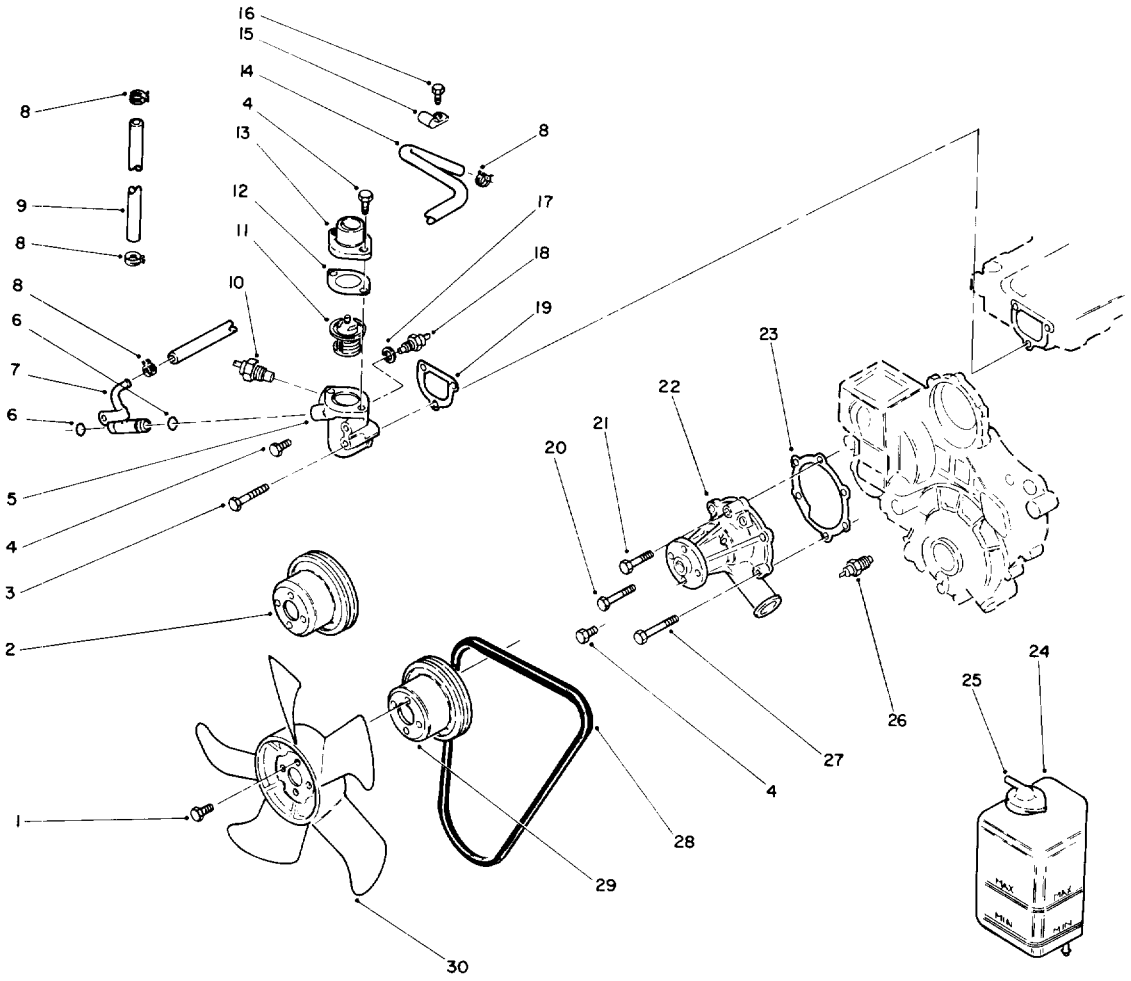


T-0836-89

GEAR CASE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	67-2490	Case Sub Assembly — Gear	1
2	67-2580	Gasket — Gear Case	1
3	67-2630	O-Ring	2
4	67-2340	Bolt w/Washer	3
5	67-2310	Plate — Front	1
6	67-2320	Gasket — Front Plate	1
7	42-9440	Bolt w/Washer	7
8	67-2560	Bolt w/Washer	3
9	67-2550	Housing — Oil Pump	1
10	67-2540	Gear — Oil Pump Outer	1
11	67-2530	Gear — Oil Pump Inner	1
12	42-9440	Bolt w/Washer	4
13	42-7210	Plug — Taper	1

Ref. No.	Part No.	Description	No. Used
14	67-2600	Bolt	3
15	67-2610	Bolt	4
16	67-2590	Oil Seal	1
17	67-2500	Plunger — Relief	1
18	67-2510	Spring — Relief	1
19	42-7290	Gasket — Drain Plug	1
20	67-2520	Plug	1
21	67-2620	Bolt	1
22	67-2570	Plug Taper	1
23	67-2640	Cap — Sealing	1
24	67-2660	O-Ring	1
25	67-2650	Cap — Assembly — Oil Filter (Incl. Ref. #24)	1

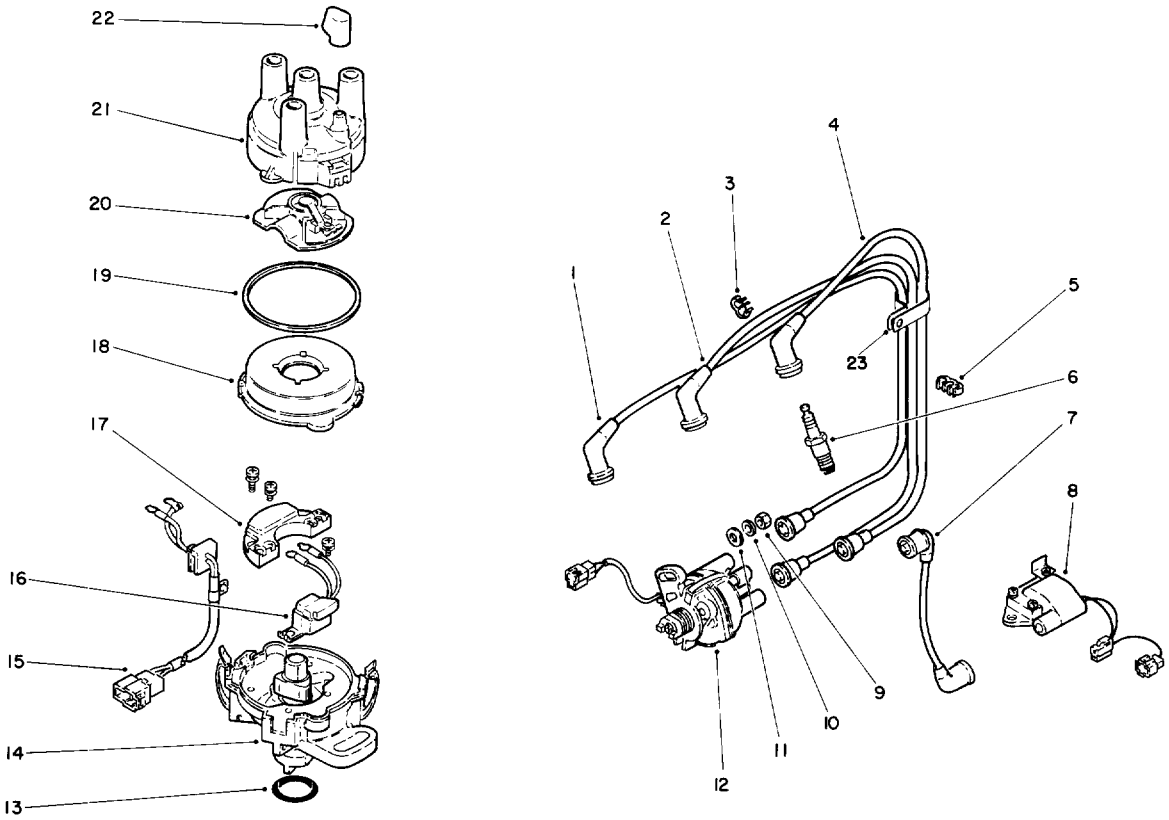


T-0826-89

WATER PUMP ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	42-9490	Bolt, w/Washer	4
2	42-9070	Pulley, Water Pump	1
3	67-4470	Bolt	1
4	67-2330	Bolt	6
5	67-4450	Fitting, Thermostat	1
6	43-2710	O-Ring	2
7	72-6740	Pipe, Bypass	1
8	72-7080	Clip, Hose	4
9	72-7090	Hose, Fuel	1
10	67-4510	Gauge Unit, Water Temp.	1
11	67-4440	Thermostat	1
12	67-4430	Gasket, Water Outlet Fitting	1
13	67-4420	Fitting, Water Outlet	1
14	72-7120	Hose, Fuel	1
15	72-7110	Clip	1
16	72-7100	Bolt	1

Ref. No.	Part No.	Description	No. Used
17	67-4490	Gasket — Switch	1
18	67-4500	Switch — Temp. Shut Down	1
19	67-4460	Gasket, Thermostat Fitting	1
20	67-4400	Bolt	1
21	67-2600	Bolt	1
22	67-4380	Pump Assembly, Water	1
23	67-4390	Gasket, Water Pump	1
24	67-7380	Tank Assembly, Reservoir (Incl. Ref. #23)	1
25	71-1520	Cap Assembly, Reservoir	1
26	67-4350	Switch — Oil Pressure	1
27	67-2610	Bolt	2
28	67-4410	V-Belt	1
29	67-4360	Pulley, Water Pump	1
30	43-1910	Fan Cooling	1



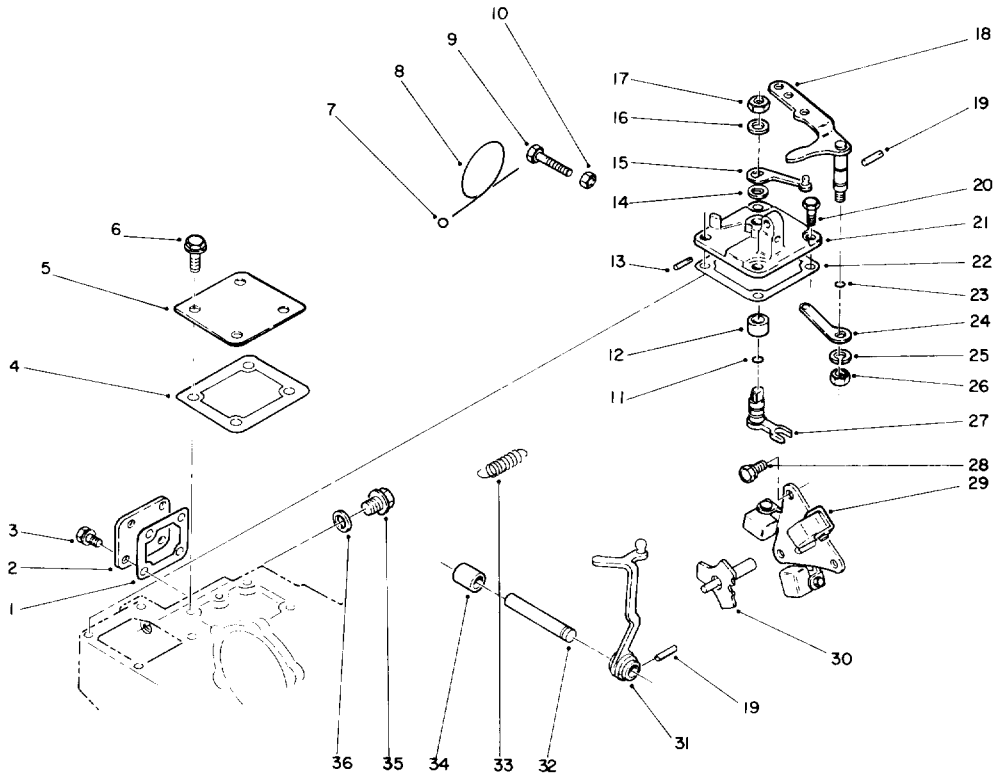
T-0834-89

DISTRIBUTOR ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	72-6890	Cable Assembly, Spark Plug No. 1	1
2	72-6900	Cable Assembly, Spark Plug No. 2	1
3	72-7150	Clamp, Emission Hose	1
4	72-6910	Cable Assembly, Spark Plug No. 3	1
5	72-7140	Clip, Hose	1
6	72-7130	Plug Assembly, Spark (BP4ES)	3
7	72-6190	Cable Assembly, High Tension	1
8	72-6880	Coil Assembly, Ignition	1
9	67-4180	Nut	1
10	67-3260	Washer, Spring	1

Ref. No.	Part No.	Description	No. Used
11	42-9660	Washer, Plain	1
12	72-6750	Distributor Assembly	1
13	72-6830	O-Ring	1
14	72-6820	Housing Set	1
15	72-6850	Lead Wire Set, w/Screws	1
16	72-6810	Pick Up Set, w/Screws	1
17	72-6800	Igniter Set, w/Screws	1
18	72-6790	Cover	1
19	72-6780	Gasket	1
20	72-6770	Rotor Assembly	1
21	72-6760	Cap Assembly (Incl. Ref. #22)	1
22		Cap Assembly	3
23	2412-106	R-Clamp	1
*	72-6840	Screw Set, Distributor	1

*Not Illustrated

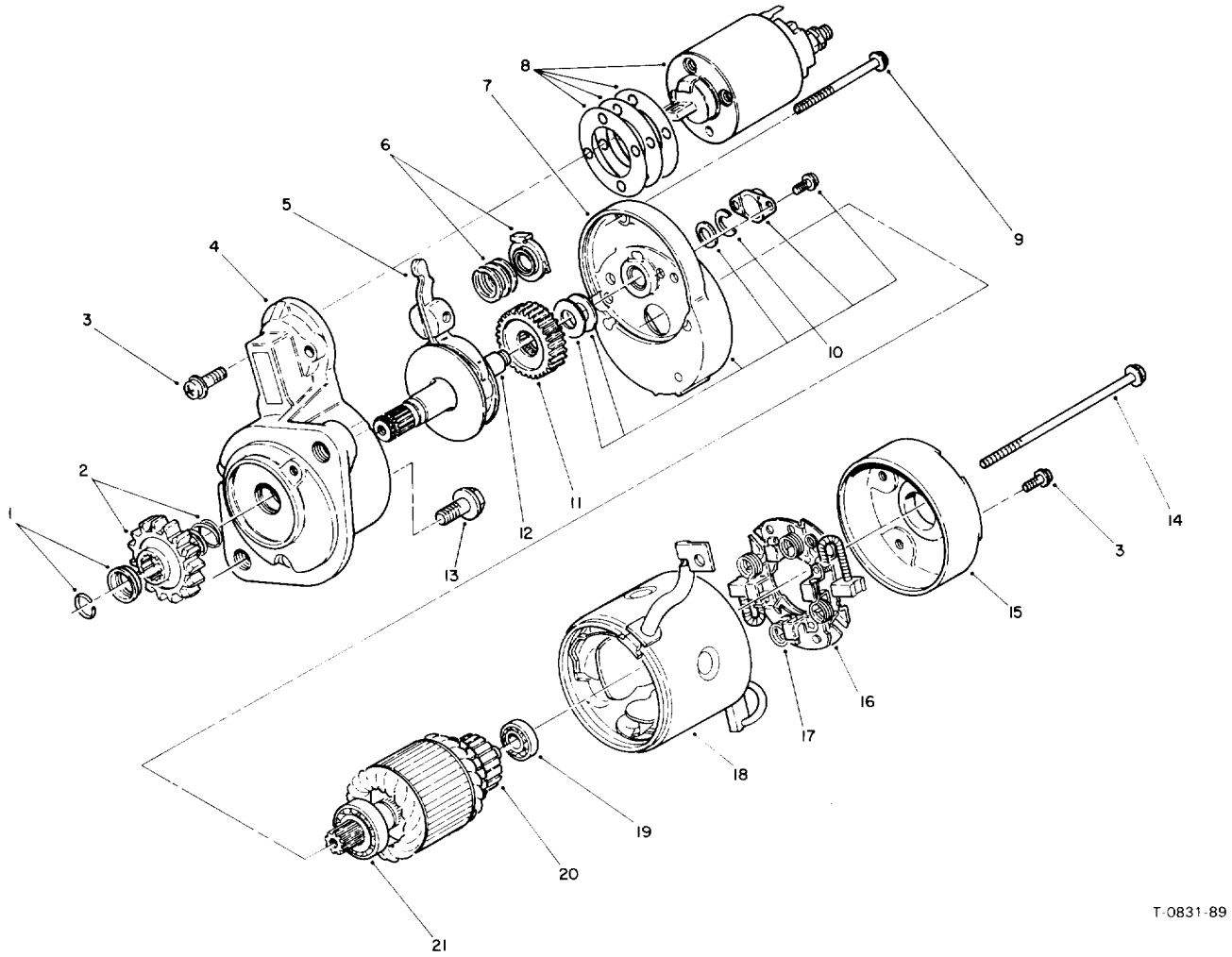


T-0835-89

GOVERNOR ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	67-4310	Gasket, Tie Rod Cover	1
2	67-4250	Cover, Tie Rod	1
3	42-9440	Bolt, w/Washer	4
4	72-6870	Gasket, Cover	1
5	72-6860	Cover	1
6	72-7070	Bolt, w/Washer	4
7	42-8690	Metal, Sealing	1
8	42-8700	Wire	1
9	42-9420	Bolt, Speed Set	1
10	67-4290	Nut	1
11	72-6660	O-Ring	1
12	72-6670	Bushing	1
13	67-4120	Pin, Grooved	1
14	72-6710	Seal, Dust	1
15	72-6700	Lever, Throttle	1
16	67-3260	Washer, Spring	1
17	42-9640	Nut, Jam	1
18	67-3990	Lever Assembly, Speed Control	1

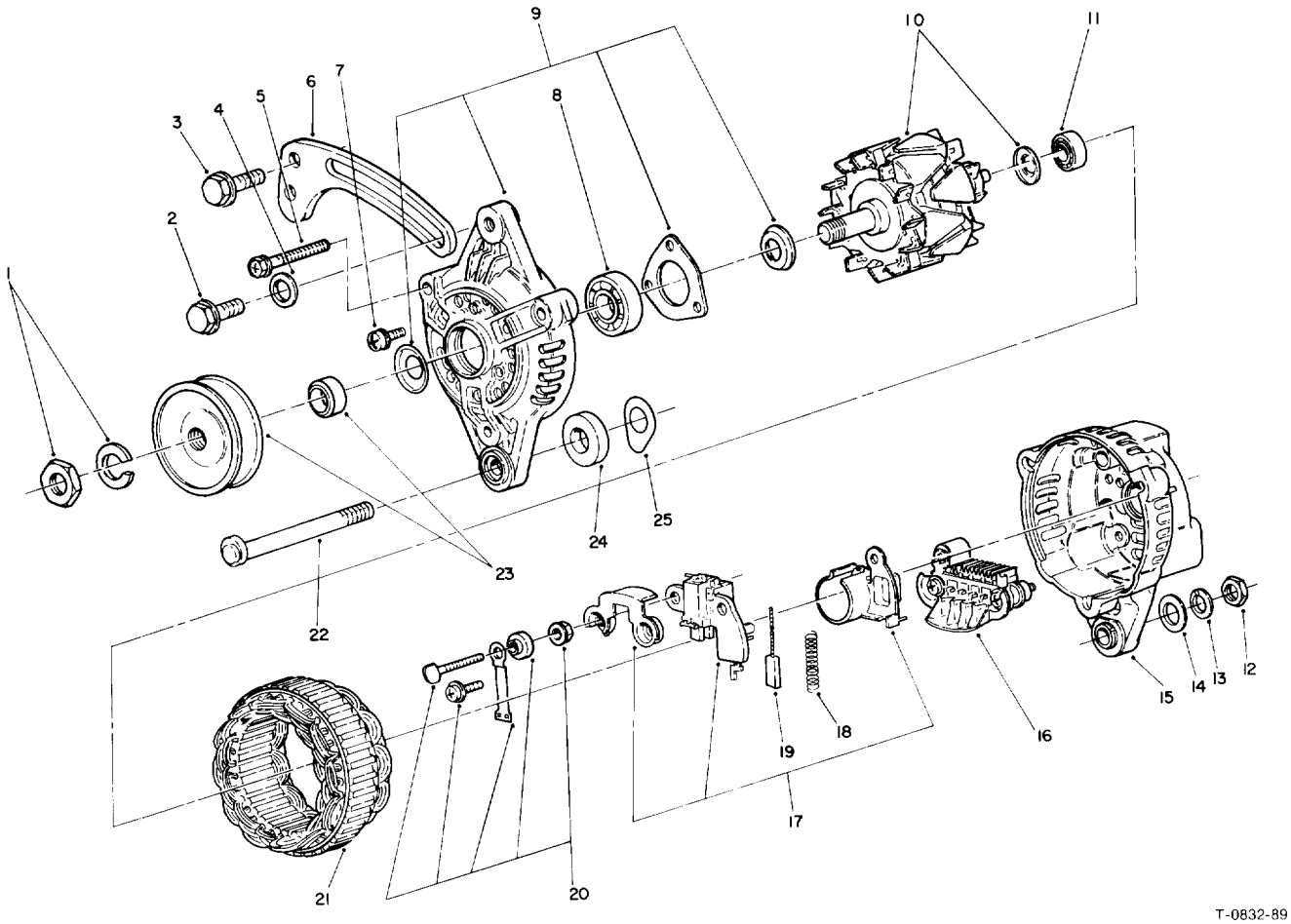
Ref. No.	Part No.	Description	No. Used
19	67-4000	Pin Grooved	2
20	67-4270	Bolt	4
21	67-4130	Cover, Governor	1
22	67-4160	Gasket, Governor Cover	1
23	42-8830	O-Ring	1
24	72-6630	Lever, Governor Spring	1
25	67-3260	Washer, Spring	1
26	42-9640	Nut, Jam	1
27	72-6690	Lever Assembly, Inner	1
28	42-9430	Bolt, w/Washer	3
29	72-6720	Weight Assembly, Governor	1
30	72-6730	Shaft Assembly, Sliding	1
31	72-6640	Lever Assembly, Governor	1
32	67-4050	Shaft, Governor	1
33	72-7050	Spring, Governor	1
34	72-7040	Bushing	1
35	72-6620	Plug	1
36	72-7030	Gasket	1



STARTER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	56-1640	Stopper Set	1
2	67-4770	Pinion Set (Incl. Ref. #1)	1
3	56-1510	Set Screw	2
4	67-4710	Bracket Assembly — Front	1
5	67-4720	Lever Assembly	1
6	67-4730	Spring Set	1
7	67-4740	Bracket Assembly — Center	1
8	67-4750	Switch Assembly	1
9	52-1570	Bolt Set	1
10	56-1680	Cover Set (Incl. Ref. #7)	1
11	56-1670	Gear	1
12	67-4790	Shaft Assembly	1
*	67-4780	Gear Set (Incl. Ref. #11 & 12)	1
*	67-4760	Shaft Assembly — Clutch Set (Incl. Ref. #1-12)	1

Ref. No.	Part No.	Description	No. Used
13		Bolt — Engine Mtg.	2
14	56-1610	Bolt	2
15	56-1720	Bracket Assembly — Rear	1
16	56-1700	Holder Assembly (Incl. Ref. #17)	1
17	56-1710	Spring — Brush	4
18	67-4800	Yoke Assembly	1
19	56-1600	Bearing — Rear	1
20	56-1580	Armature Set (Incl. Ref. #19, 21)	1
21	56-1590	Bearing — Front	1
*	67-4600	Starter Assembly (12V-1.6 Kw) Complete (Incl. Ref. #1-21)	1



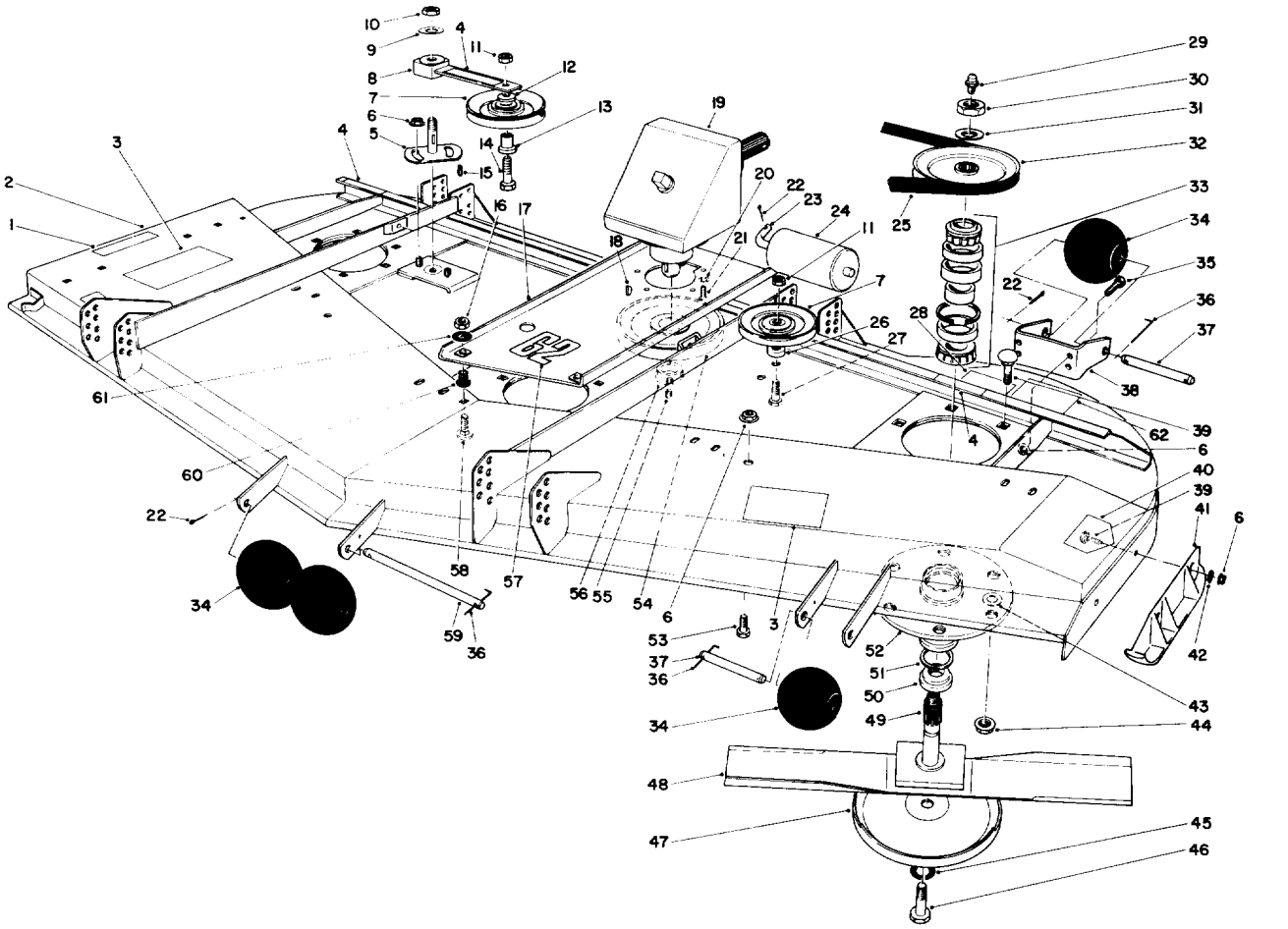
T-0832-89

ALTERNATOR ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	43-1920	Nut — Set	1
2	67-4660	Bolt — Flange	1
3	42-9440	Bolt w/Washer	1
4	54-8660	Washer — Flat	1
5	67-4820	Bolt Set	1
6	67-4650	Brace — Generator	1
7	67-4840	Screw Set	1
8	67-4850	Bearing — Front	1
9	67-4830	Bracket Assembly — Front (Incl. Ref. #7 & 8)	1
10	67-4860	Rotor Assembly (Incl. Ref. #11)	1
11	67-4870	Bearing — Rear	1
12	67-4670	Nut	1
13	67-3260	Lockwasher	1
14	42-9660	Washer — Flat	1

Ref. No.	Part No.	Description	No. Used
15	67-4890	Bracket Assembly — Rear (Incl. Ref. #16 - 20)	1
16	67-4930	Rectifier Assembly	1
17	67-4910	Regulator Assembly (Incl. Ref. #18, 19)	1
18	43-0510	Spring — Brush	2
19	67-4920	Brush	2
20	67-4900	Terminal Set	1
21	67-4880	Stator Assembly	1
22	67-4640	Bolt	1
23	67-4810	Pulley Set	1
24	67-4620	Spacer	1
25	43-0370	Shim	5
*	67-4630	Alternator Assembly — Complete (Incl. Ref #1 - 25)	1

*Not Illustrated

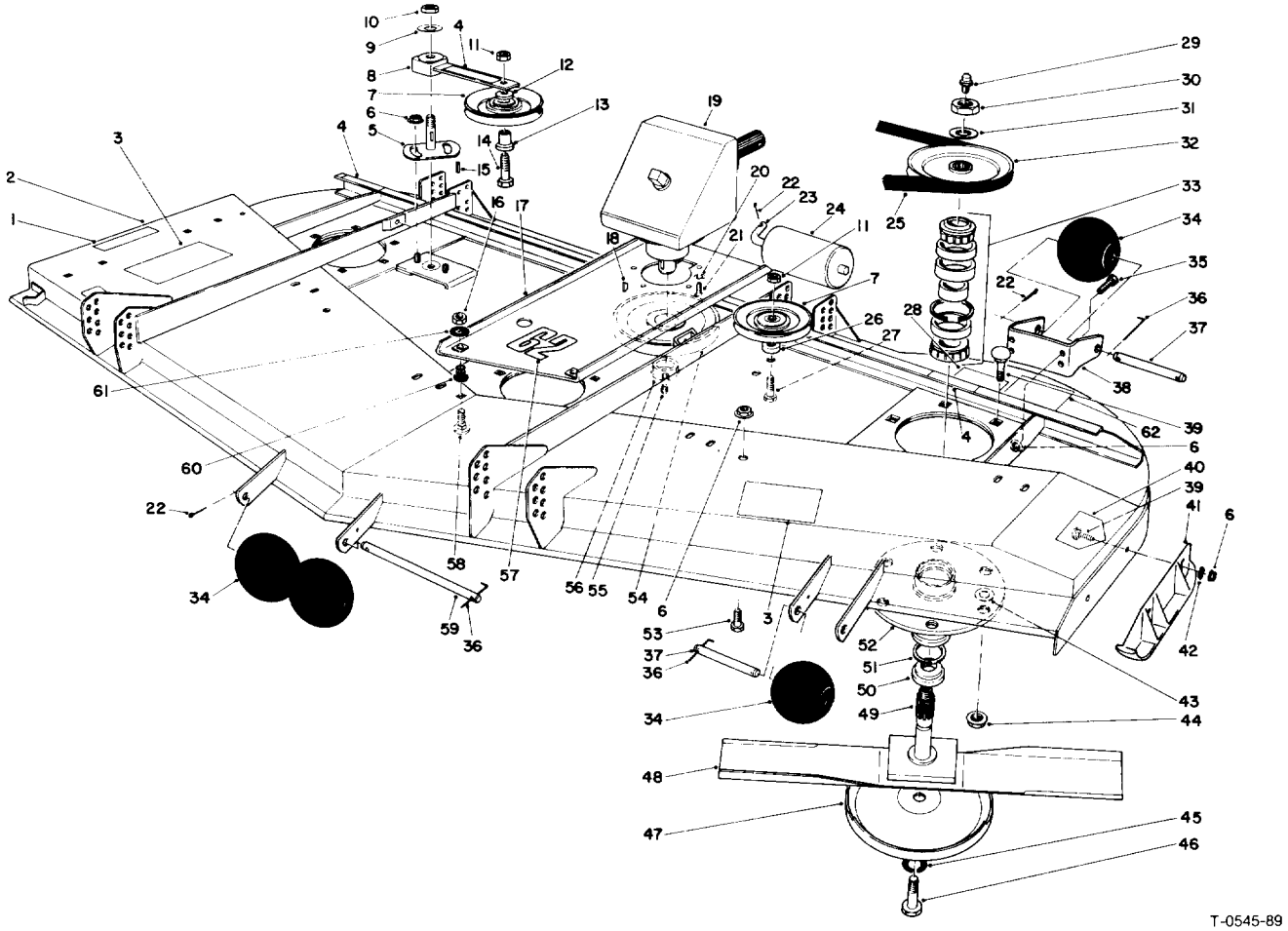


T-0545-89

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

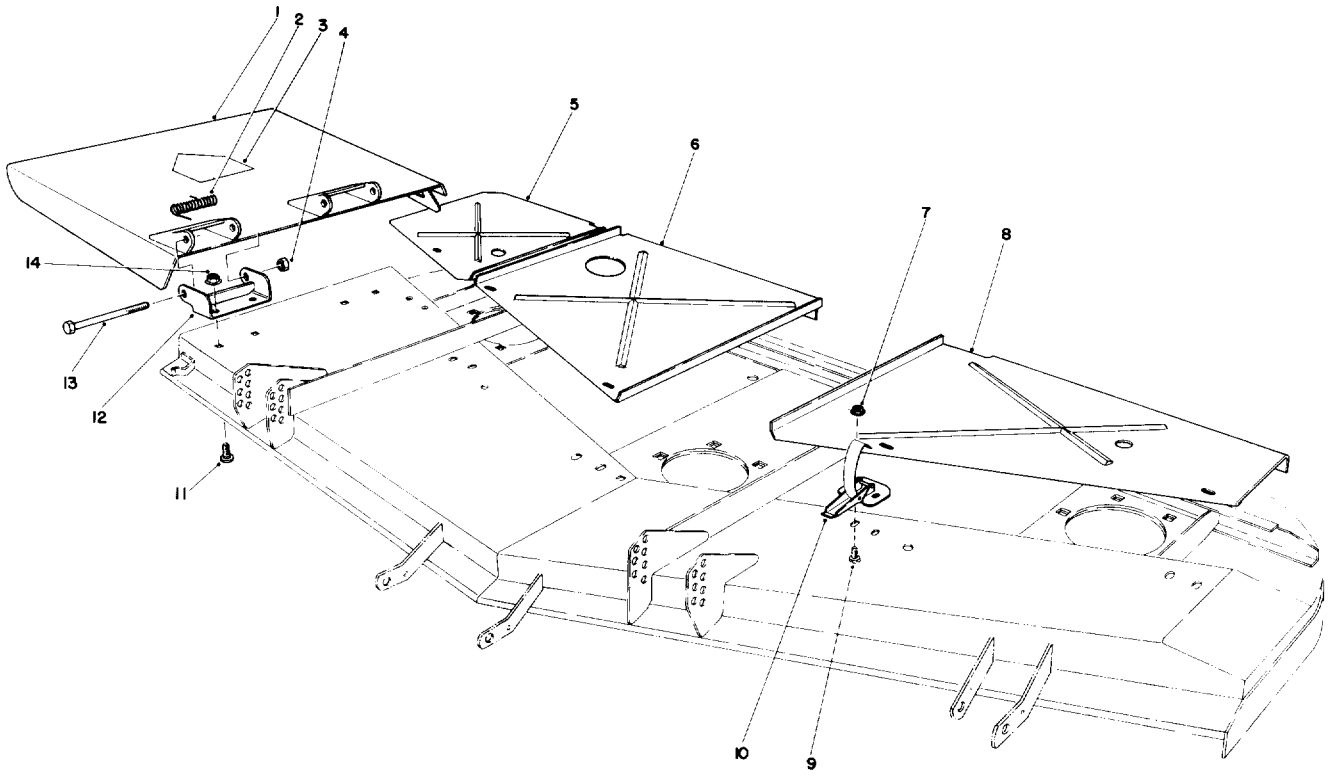


CUTTING UNIT MODEL NO. 30564 (Continued)

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

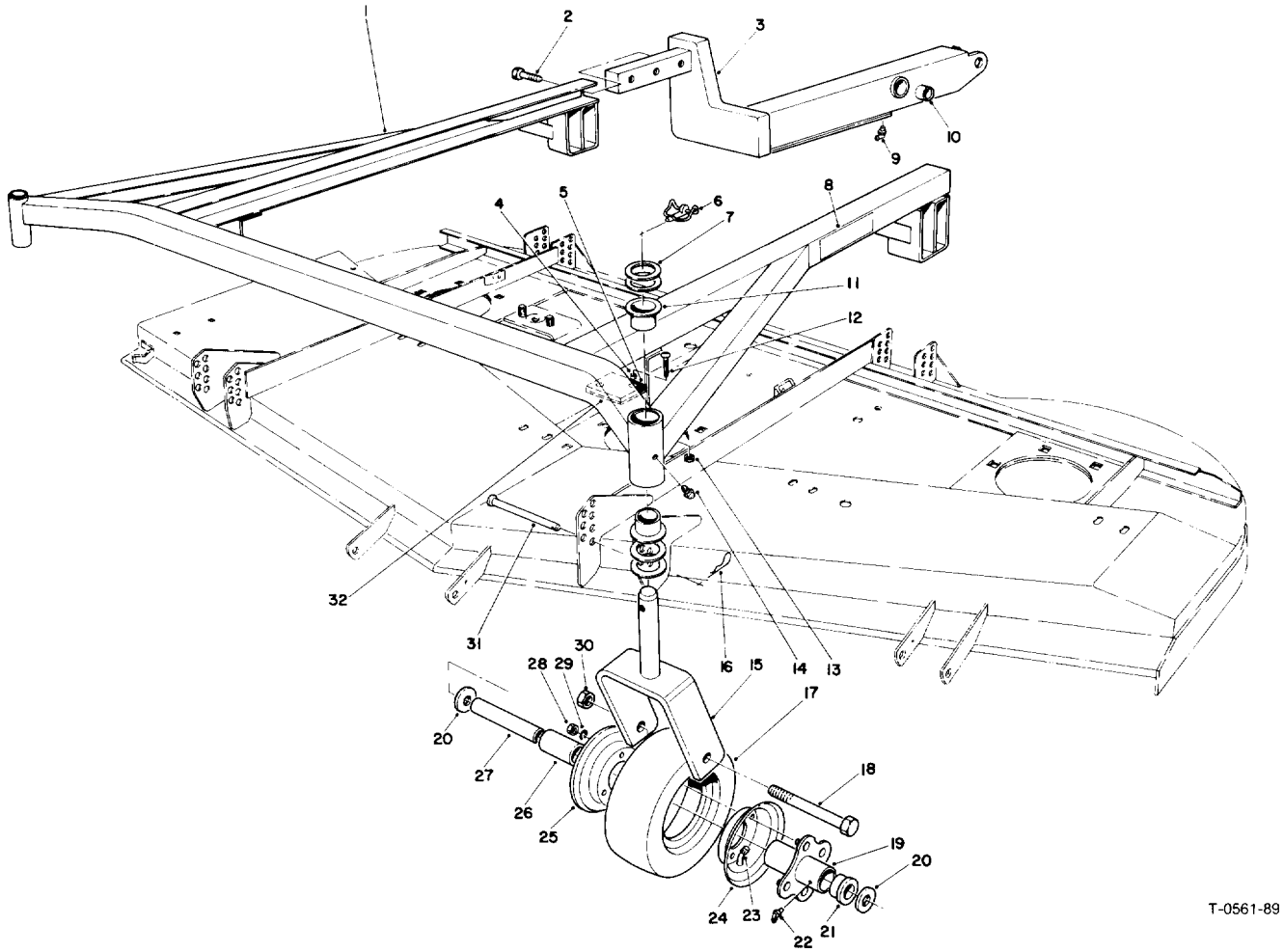


T-0560-89

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

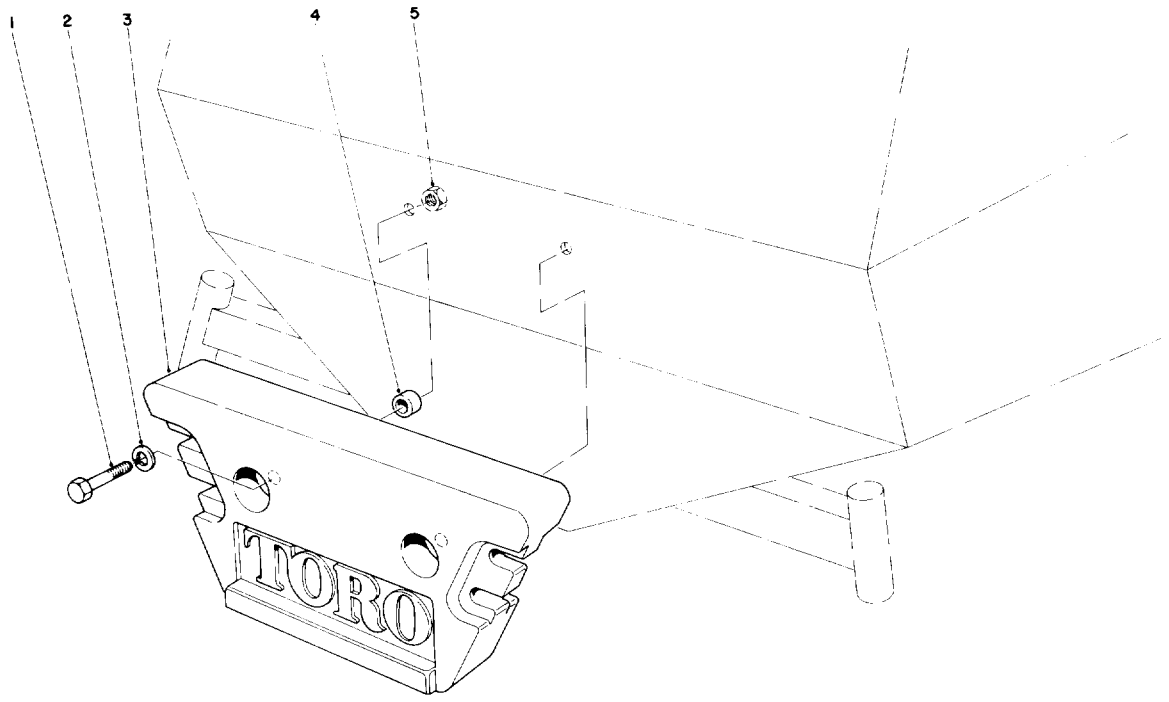


CUTTING UNIT MODEL NO. 30564 (Continued)

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

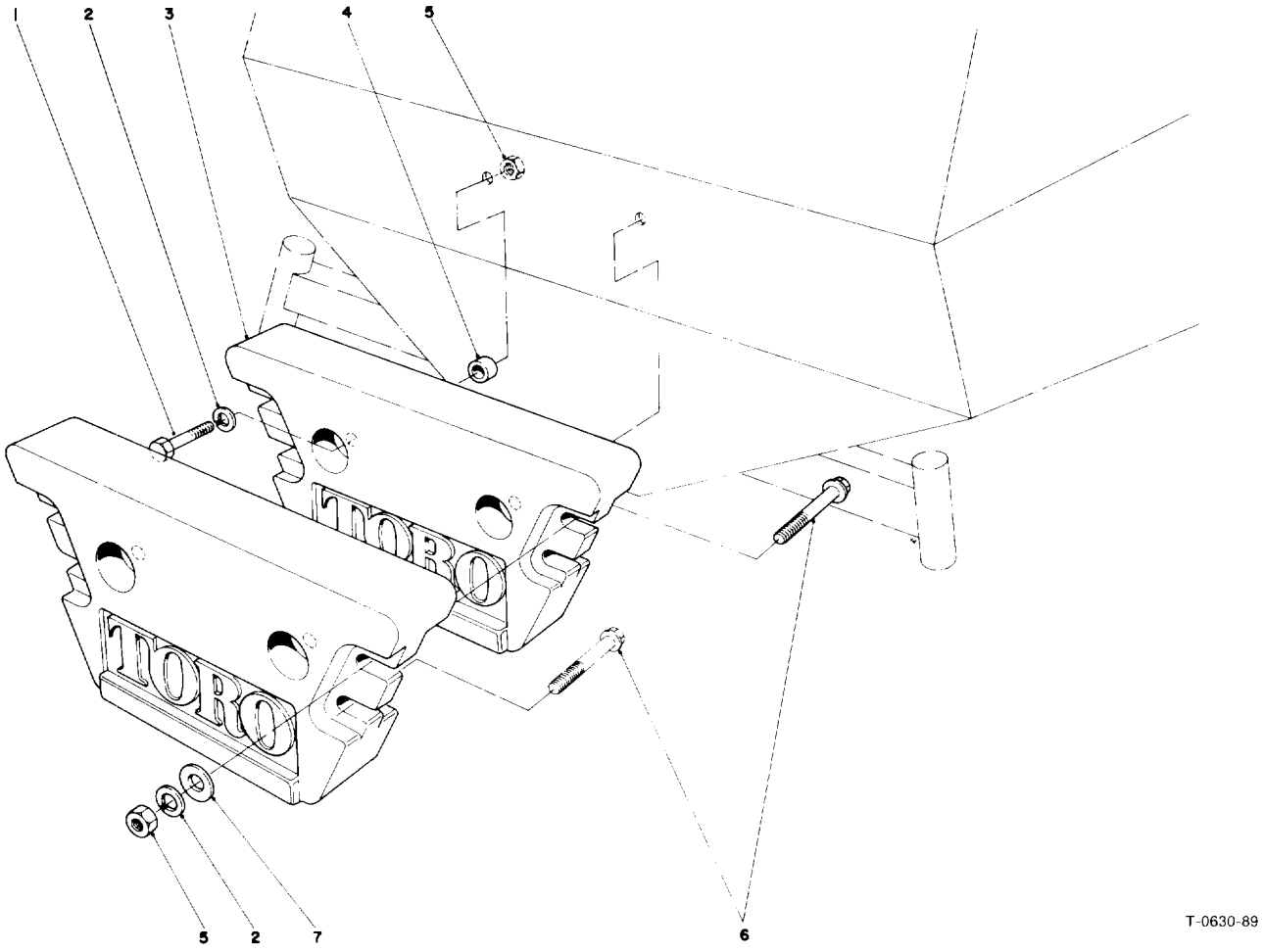


T-0562-89

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 224 with 62" cutting unit. Parts must be ordered separately.



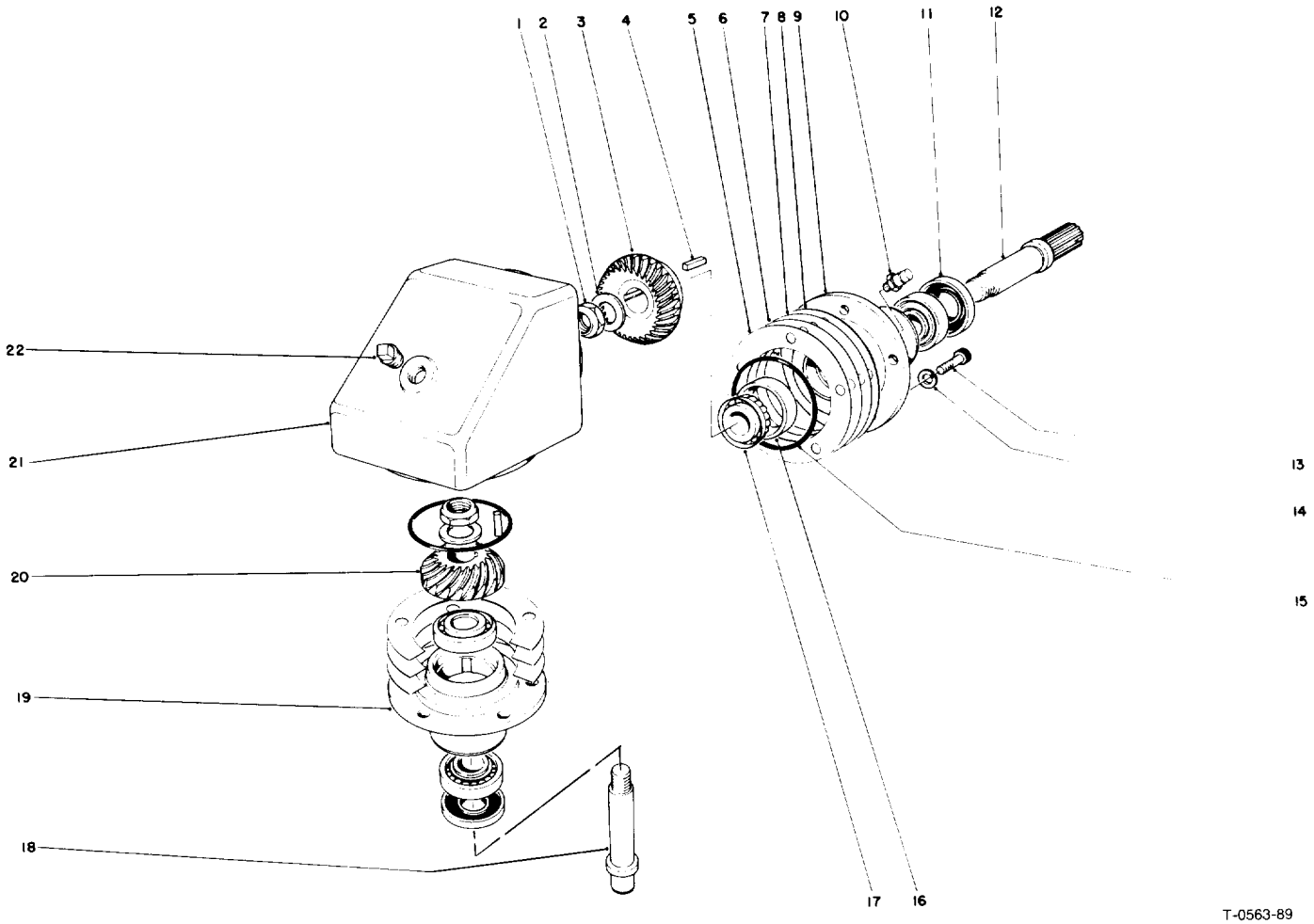
T-0630-89

†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 224 with 72" cutting unit.

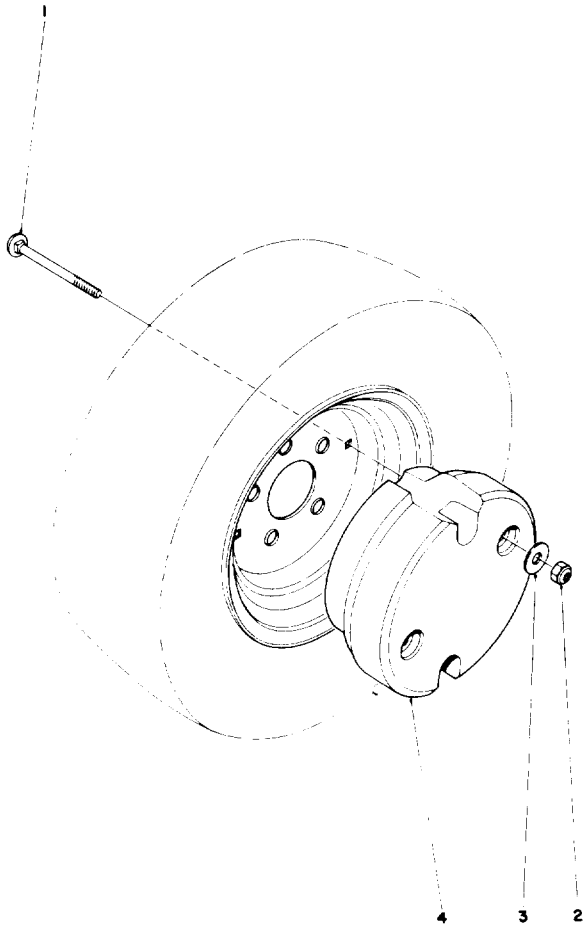


T-0563-89

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



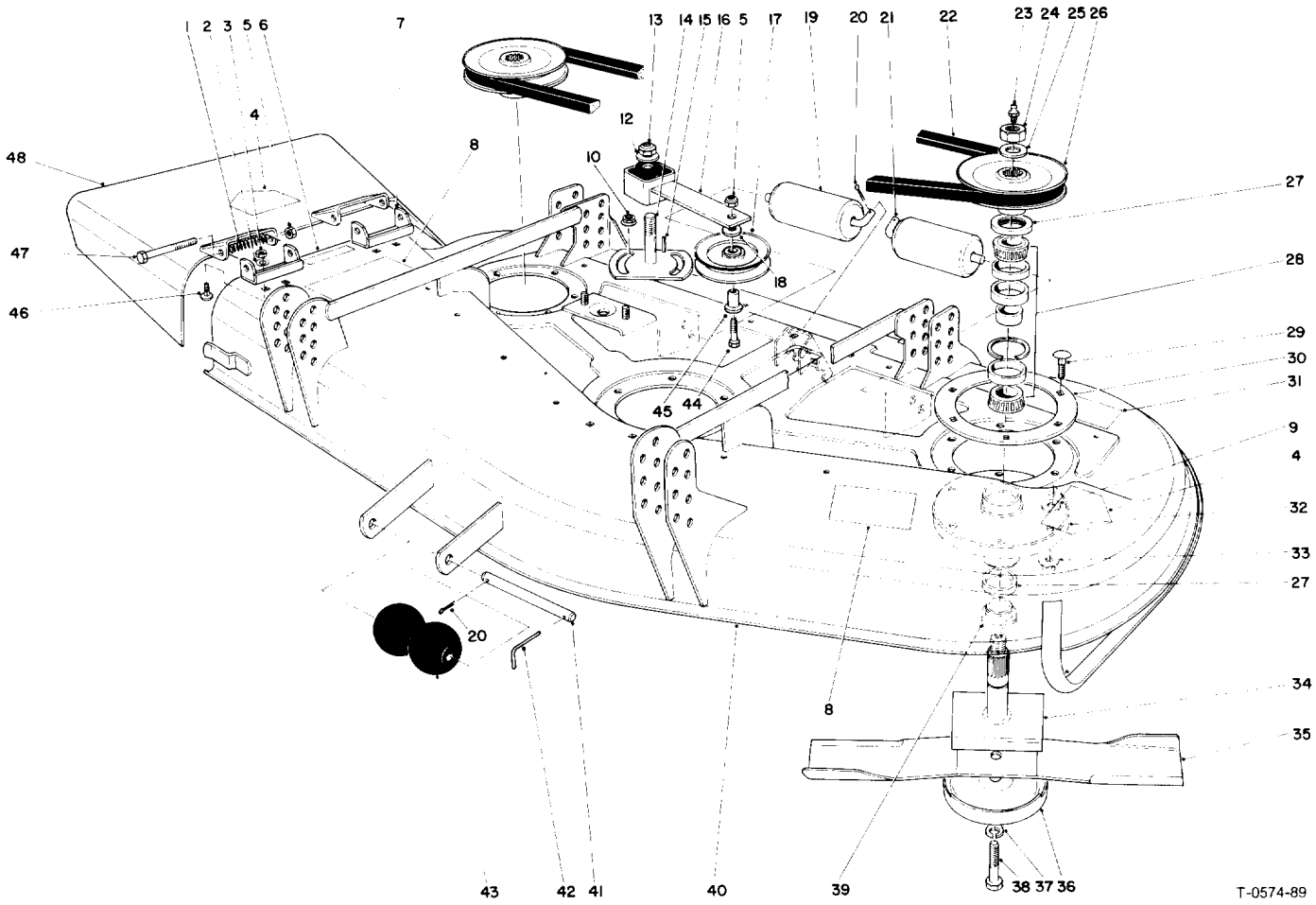
T-0635-89

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

Ref. No.	Part No.	Description	No. Used
3	3256-24	Washer	4
4†		Wheel Weight	2

†Order Replacement Kit Model No. 30762

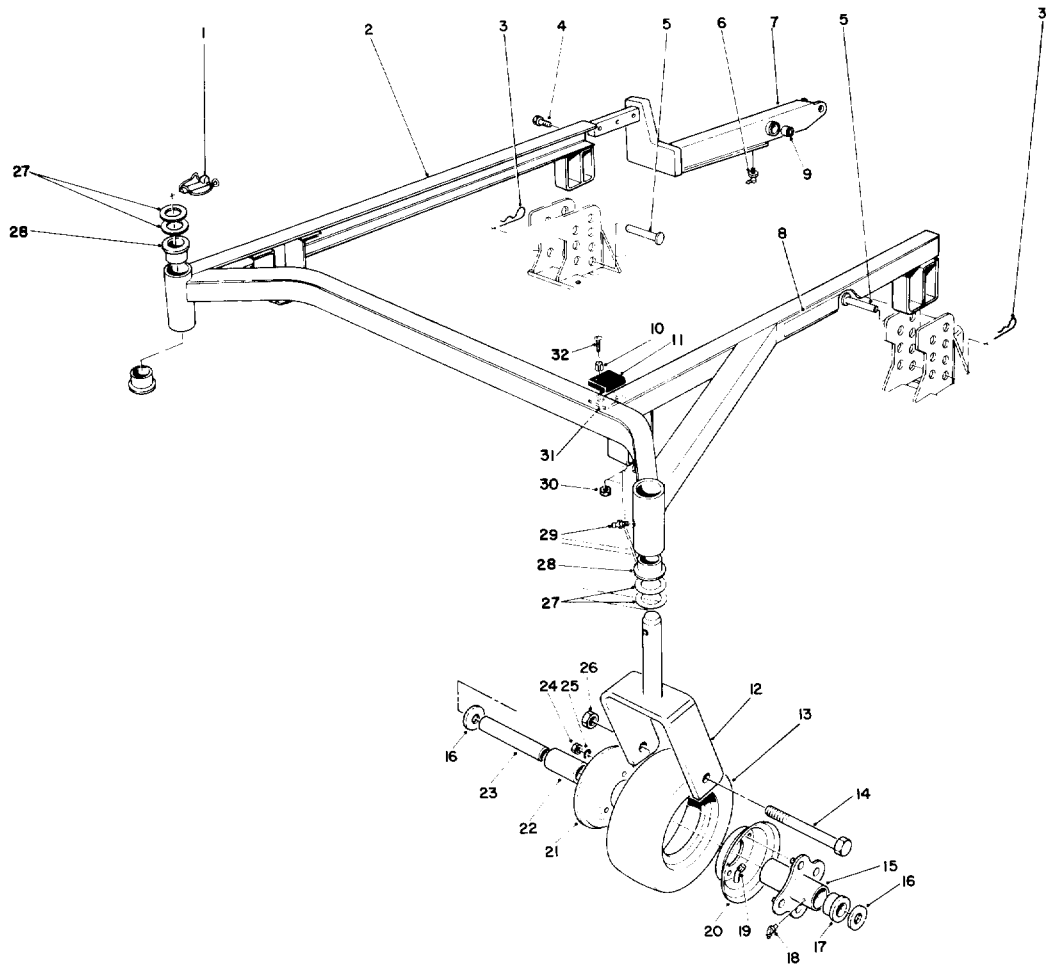


CUTTING UNIT MODEL NO. 30555

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



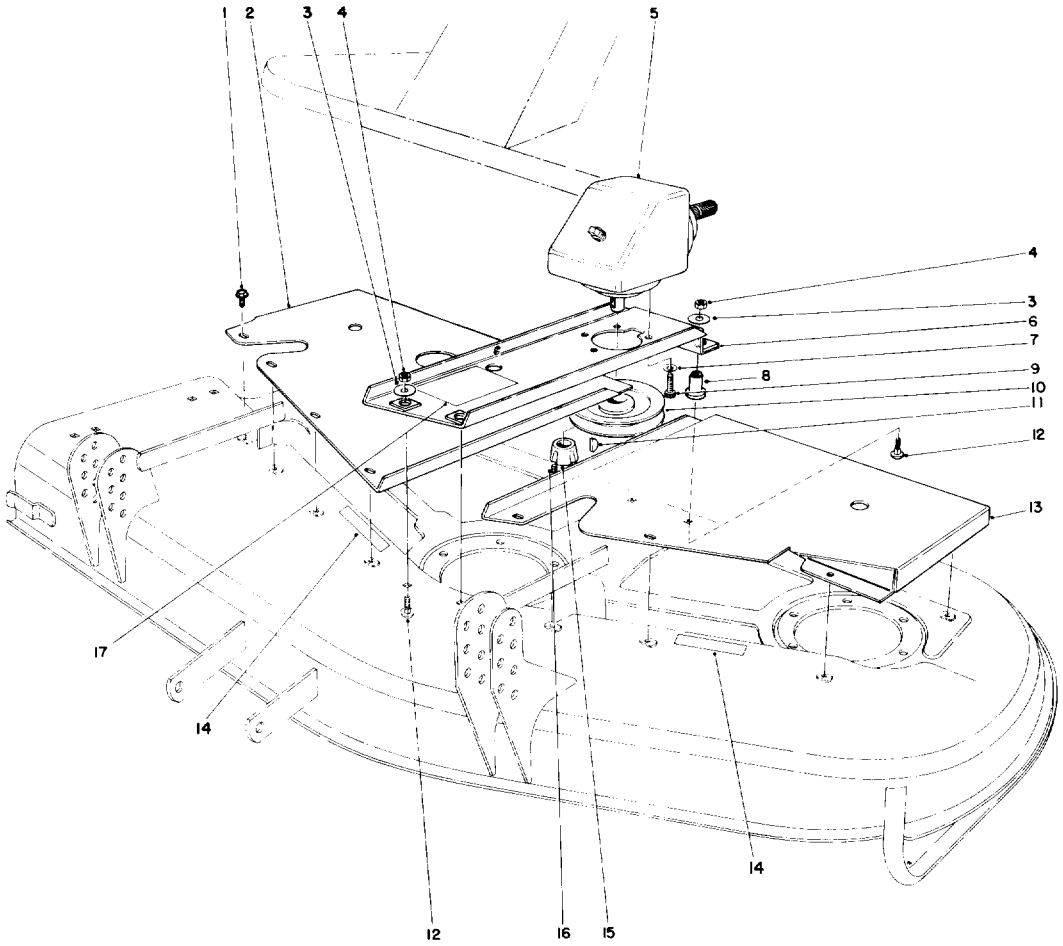
T-0629-89

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

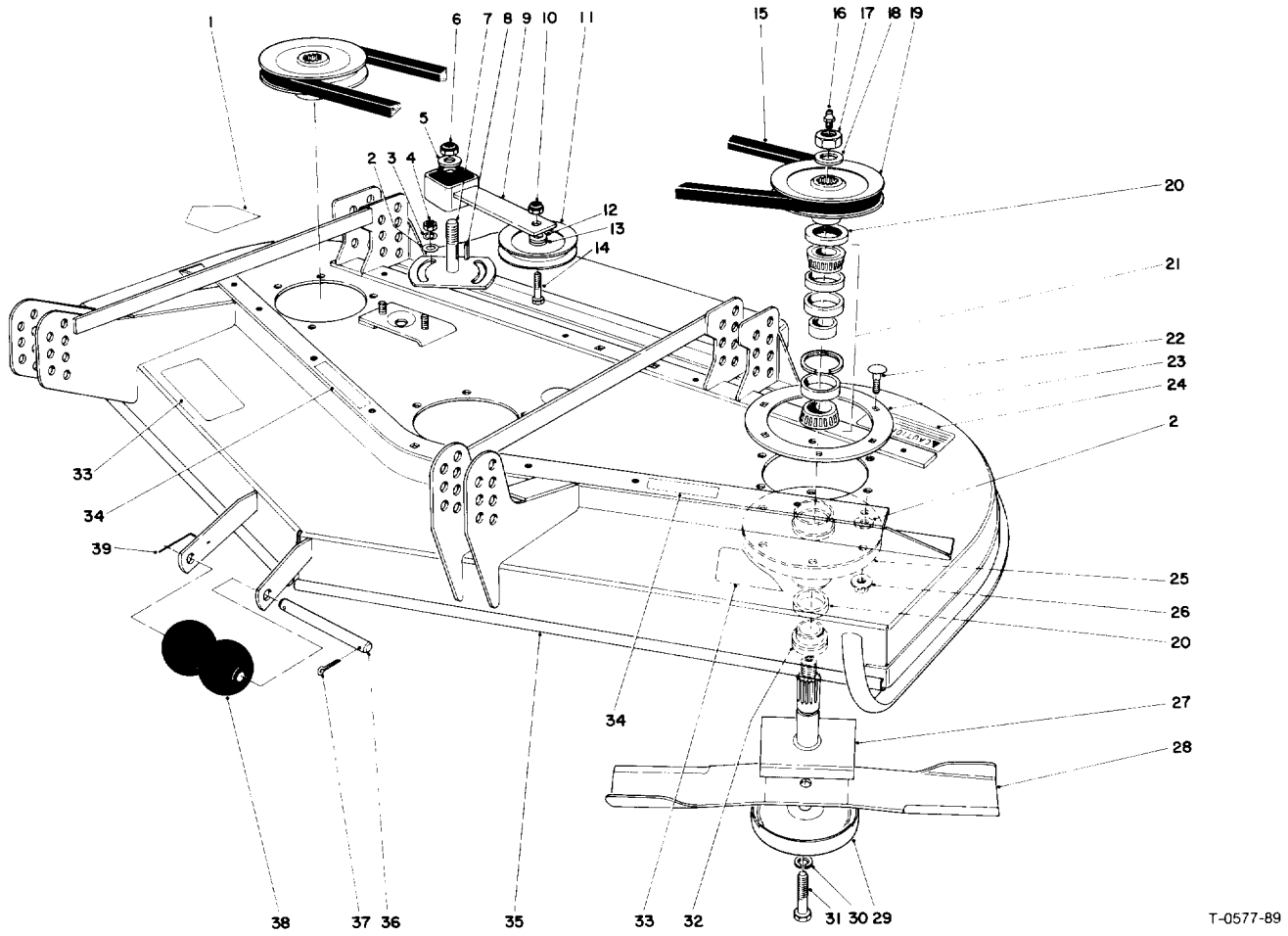


T-0576-89

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

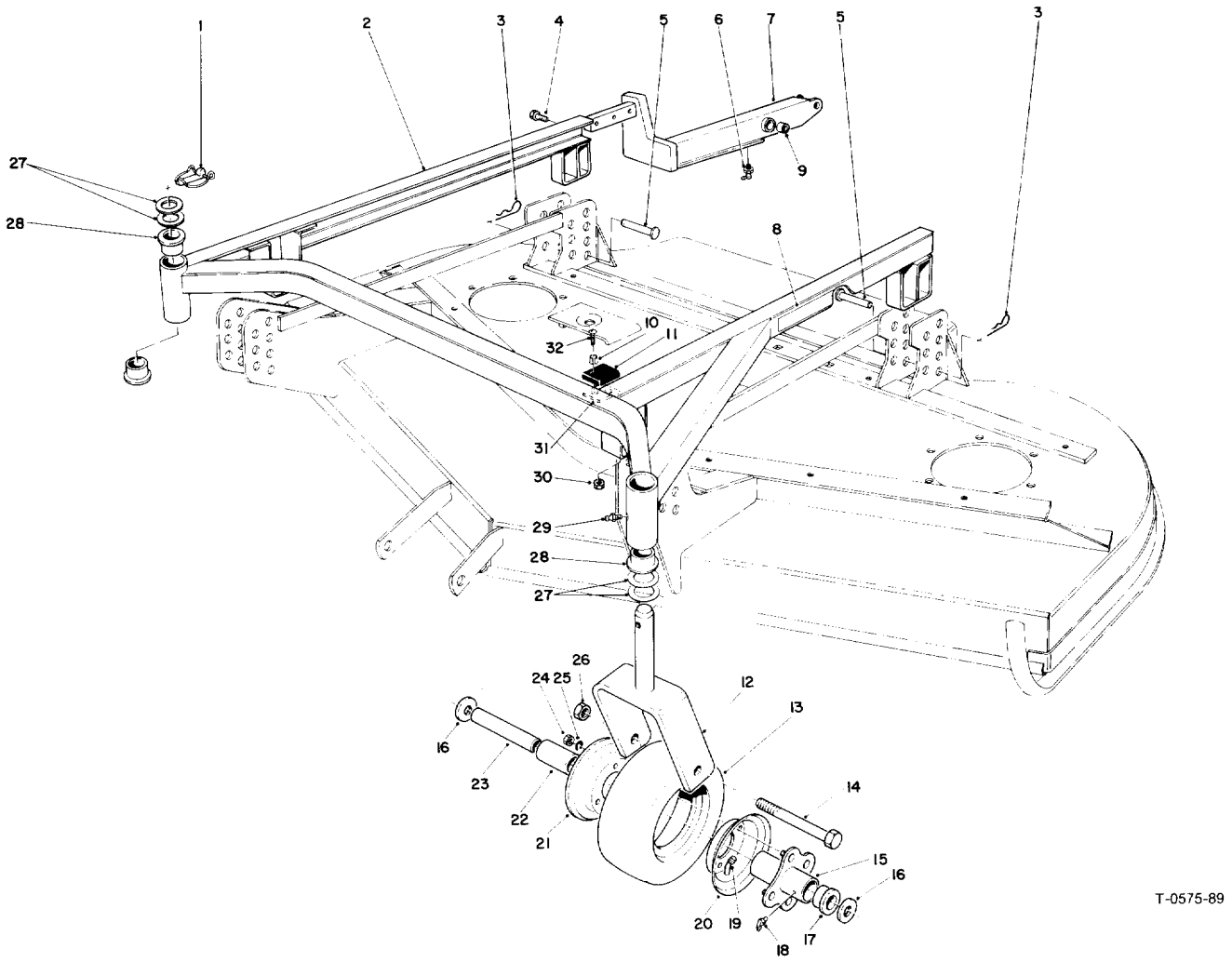


CUTTING UNIT MODEL NO. 30568

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

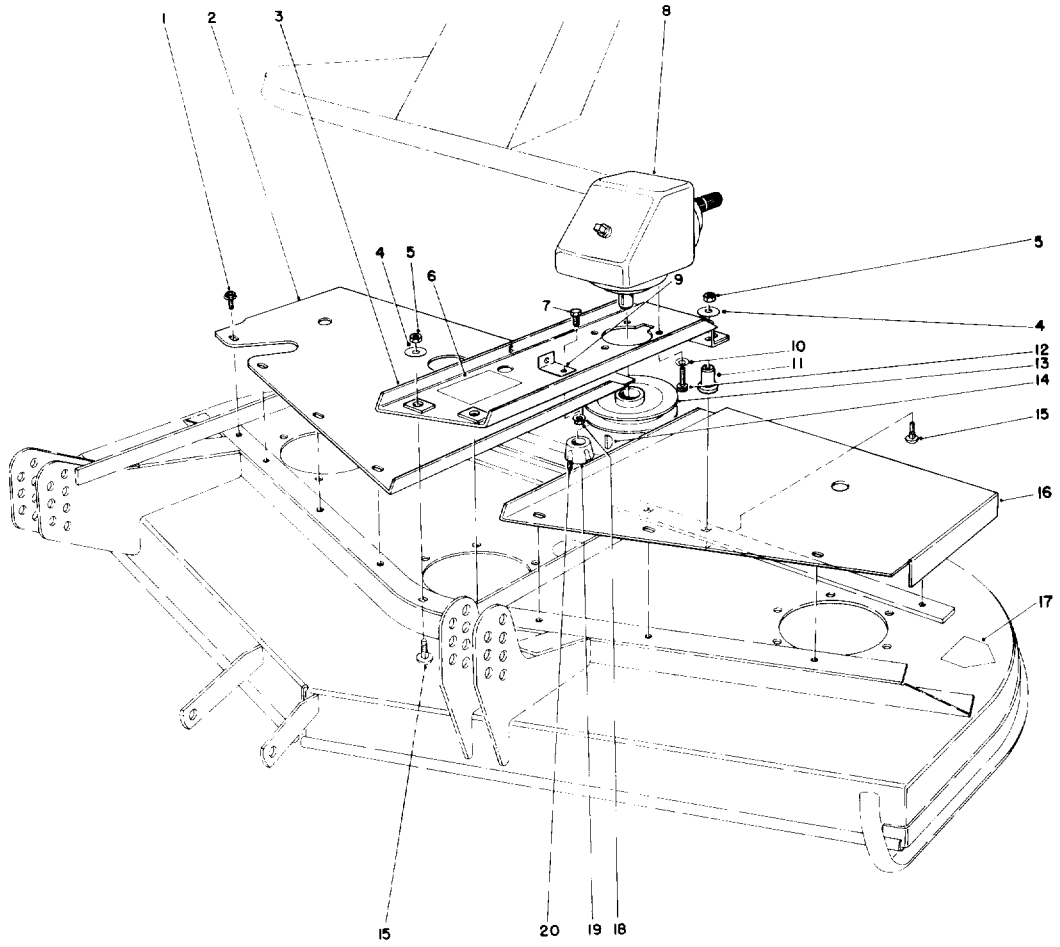


CUTTING UNIT MODEL NO. 30568 (Continued)

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

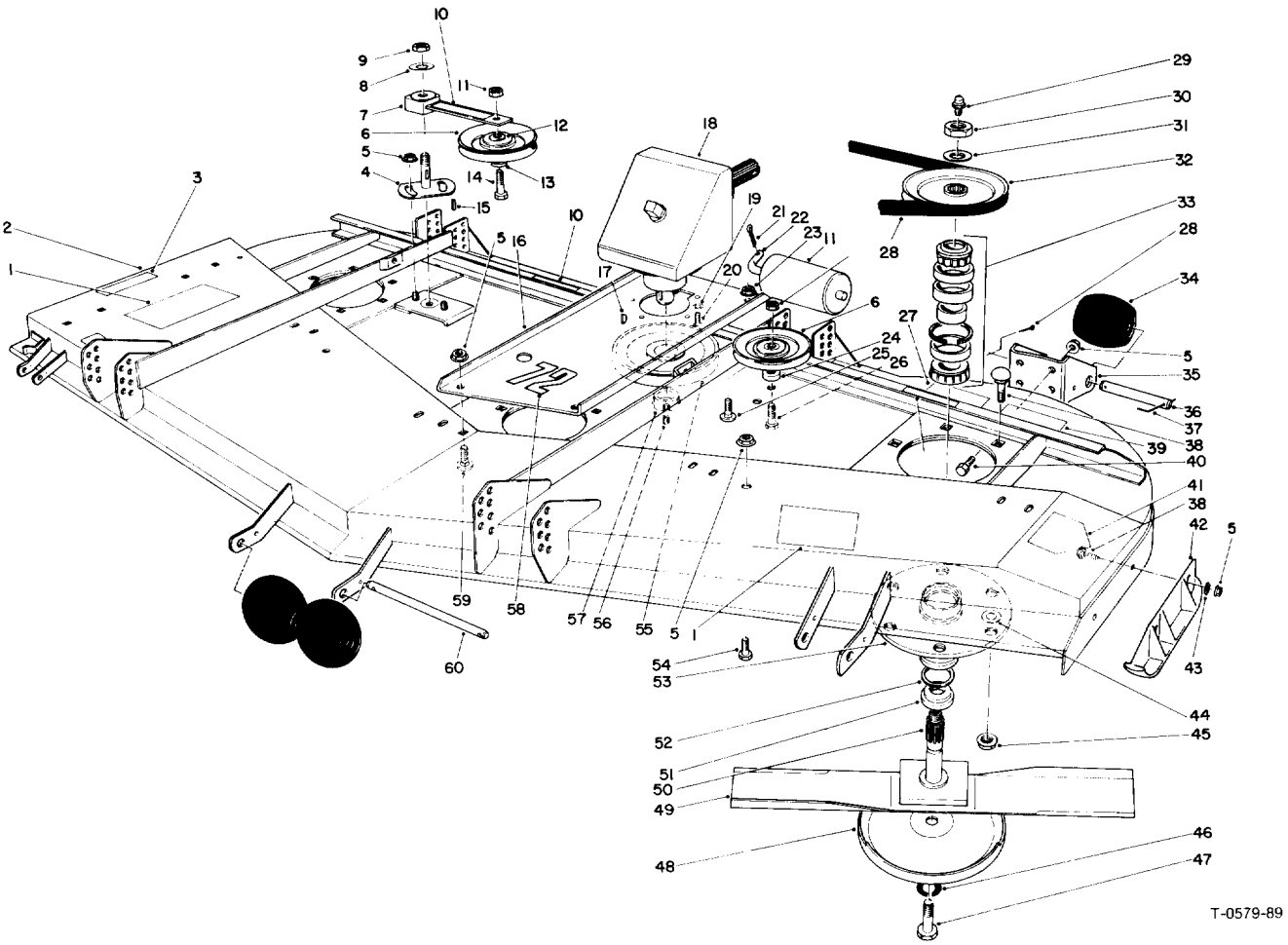


T-0578-89

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

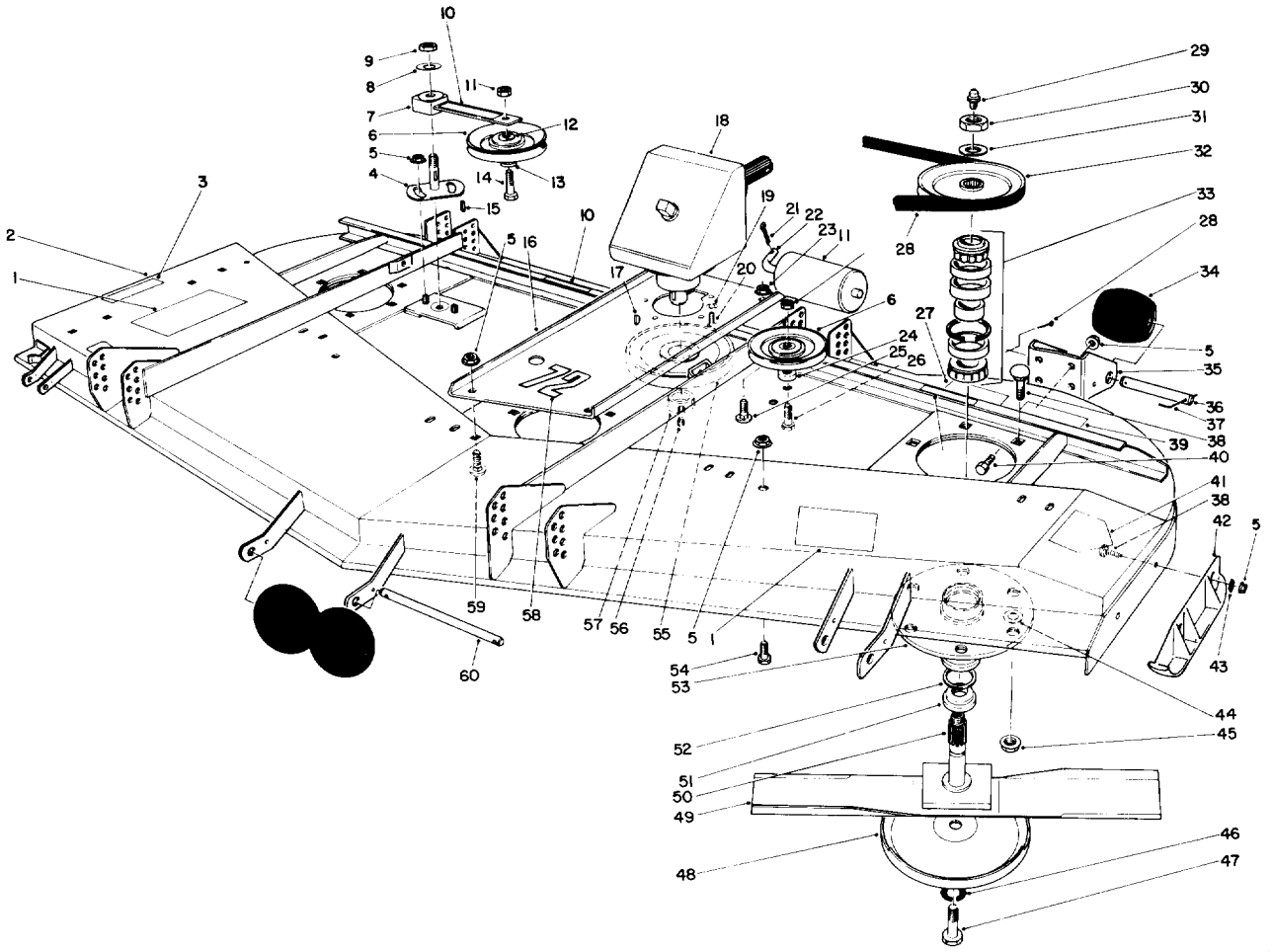


CUTTING UNIT MODEL NO. 30575

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

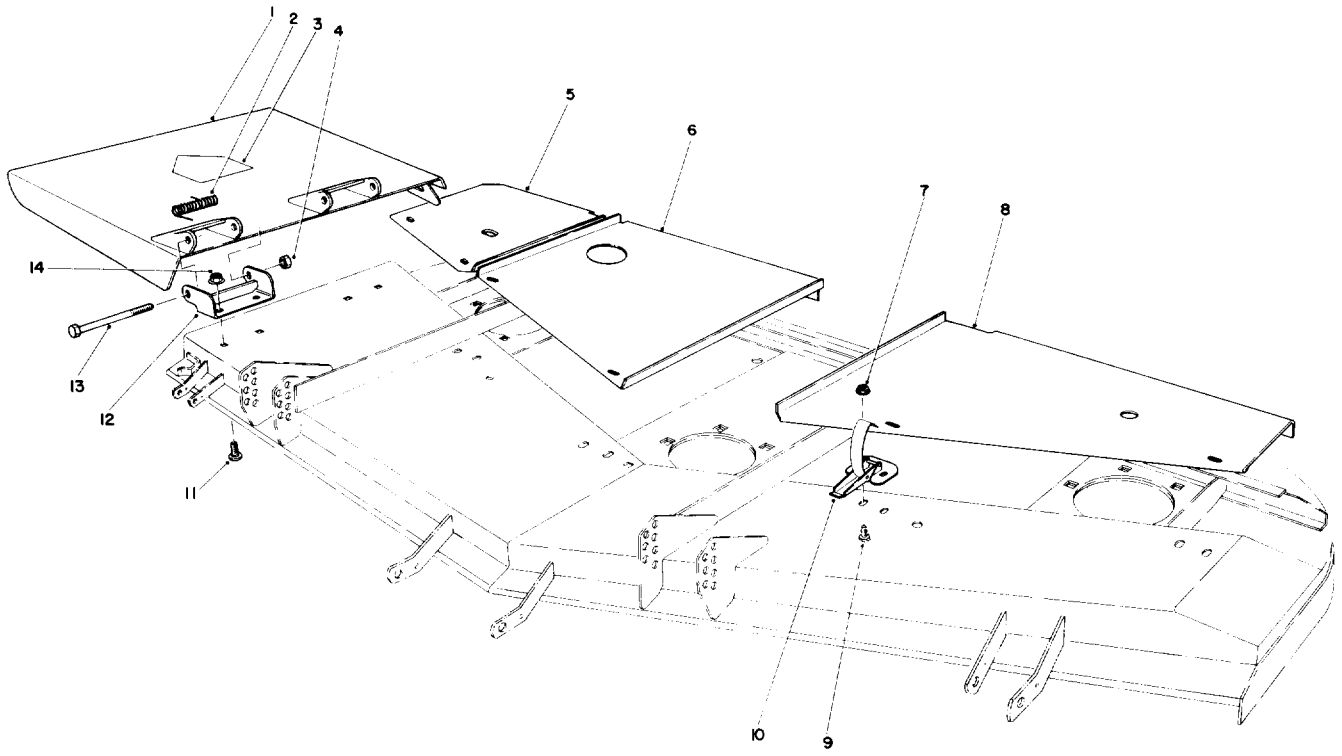


CUTTING UNIT MODEL NO. 30575 (Continued)

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

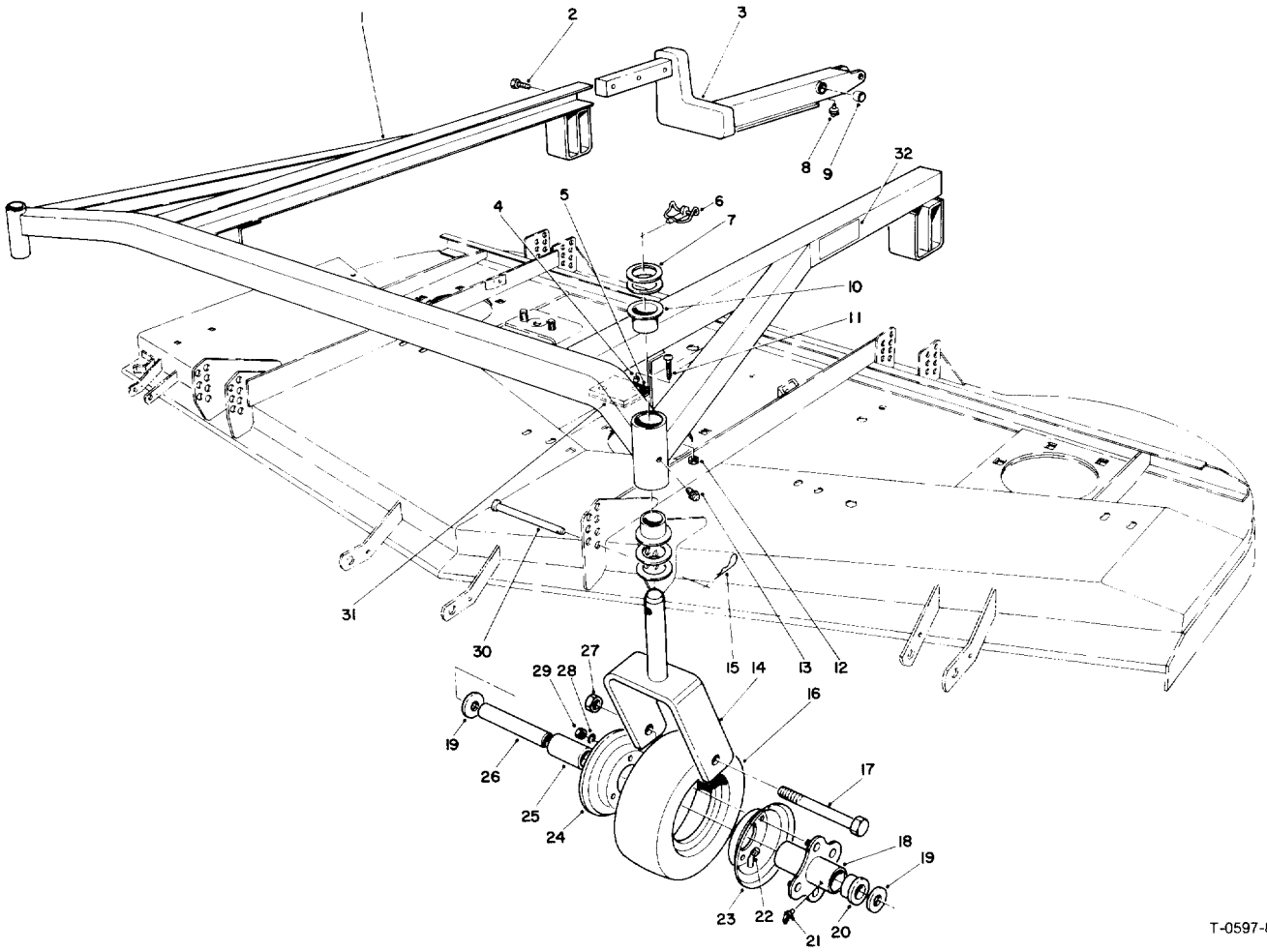


T-0589-89

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



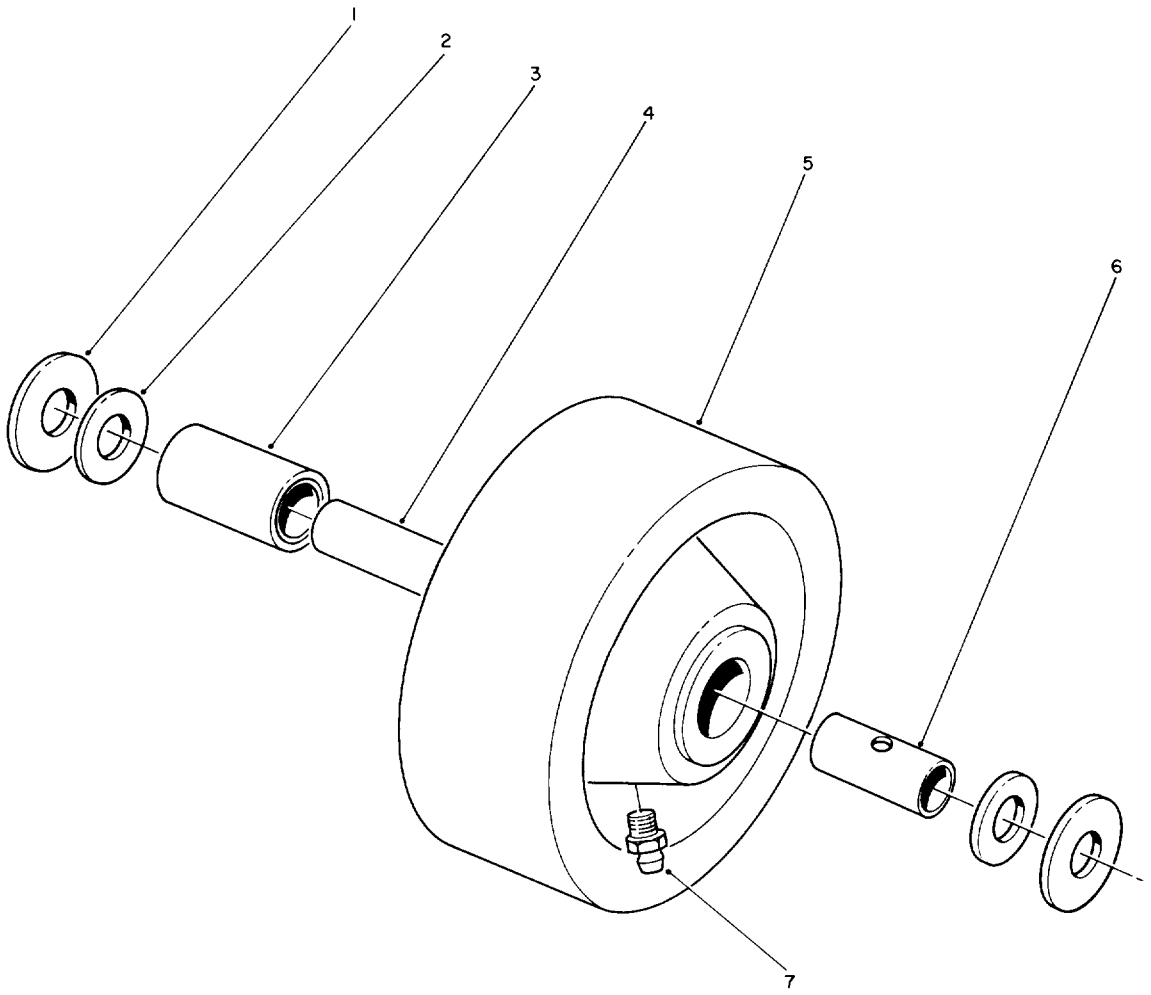
T-0597-89

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 (Incl. Ref. #16, 18, 20-25, & 28-29)	1
*			2

*Not Illustrated

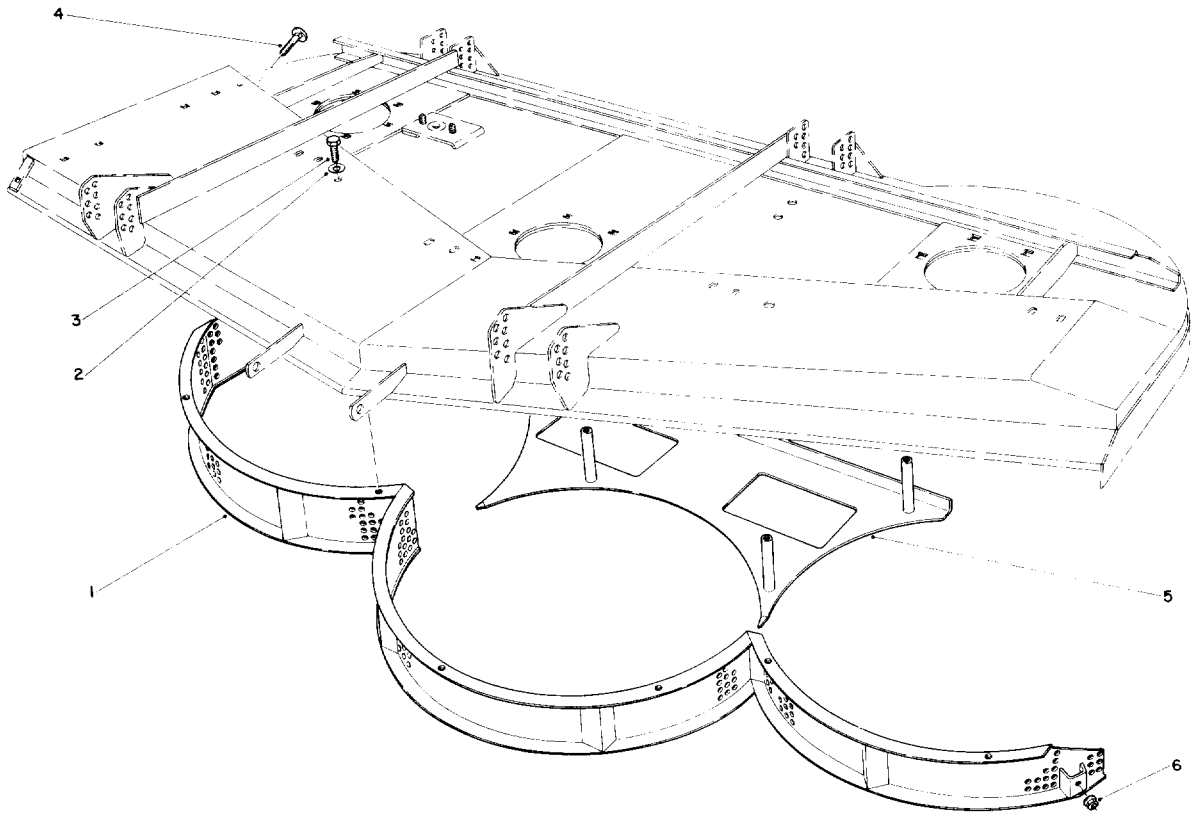


PHENOLIC WHEEL ASSEMBLY NO. 27-1050 (Optional)

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.



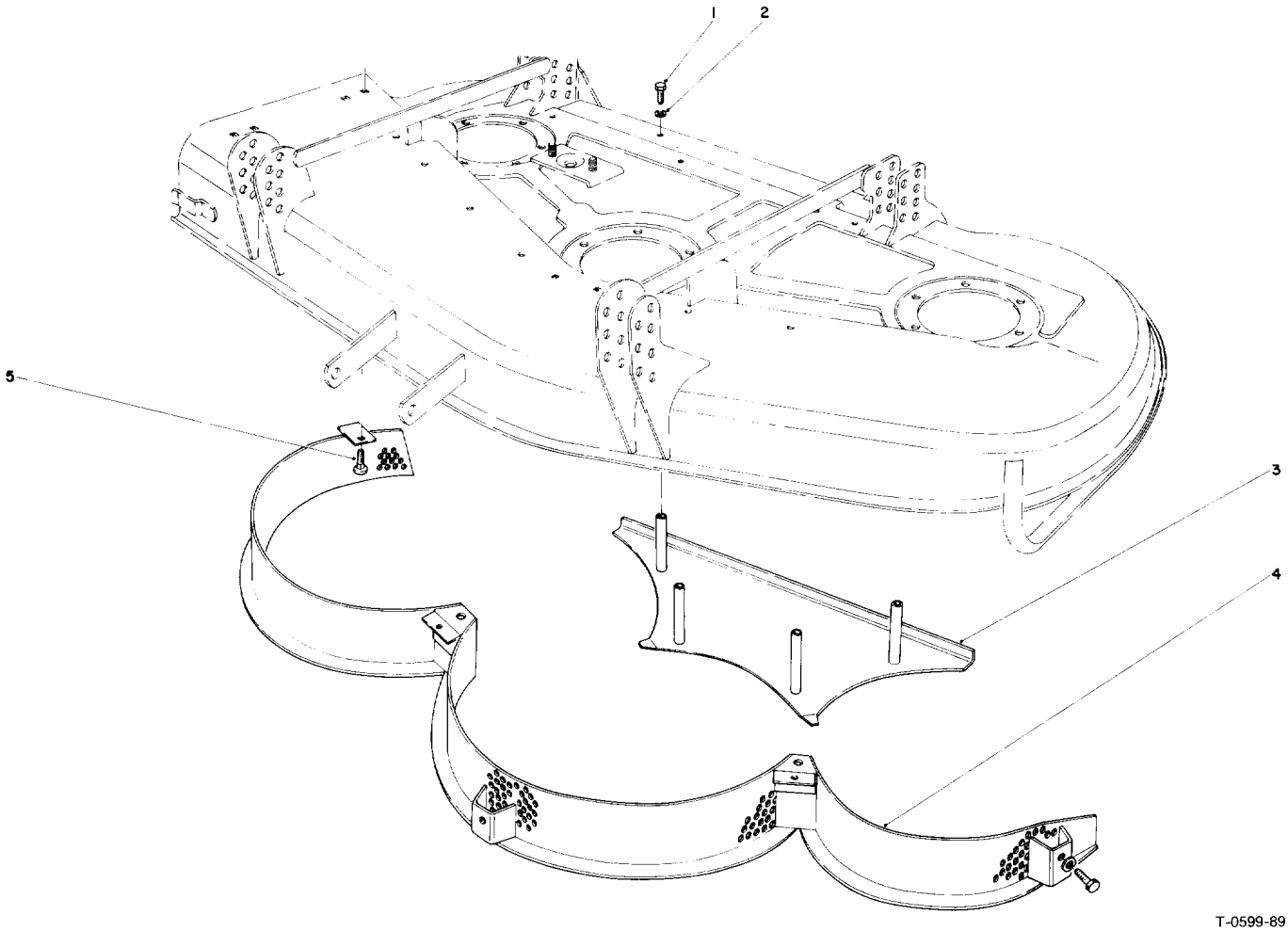
T-0598-89

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



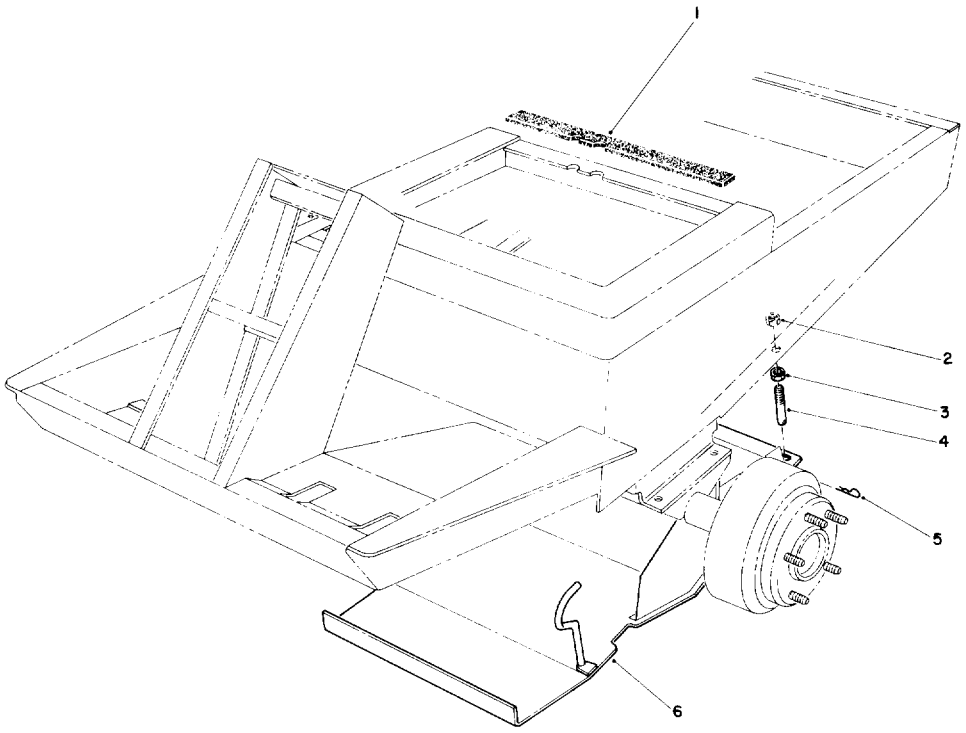
T-0599-89

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

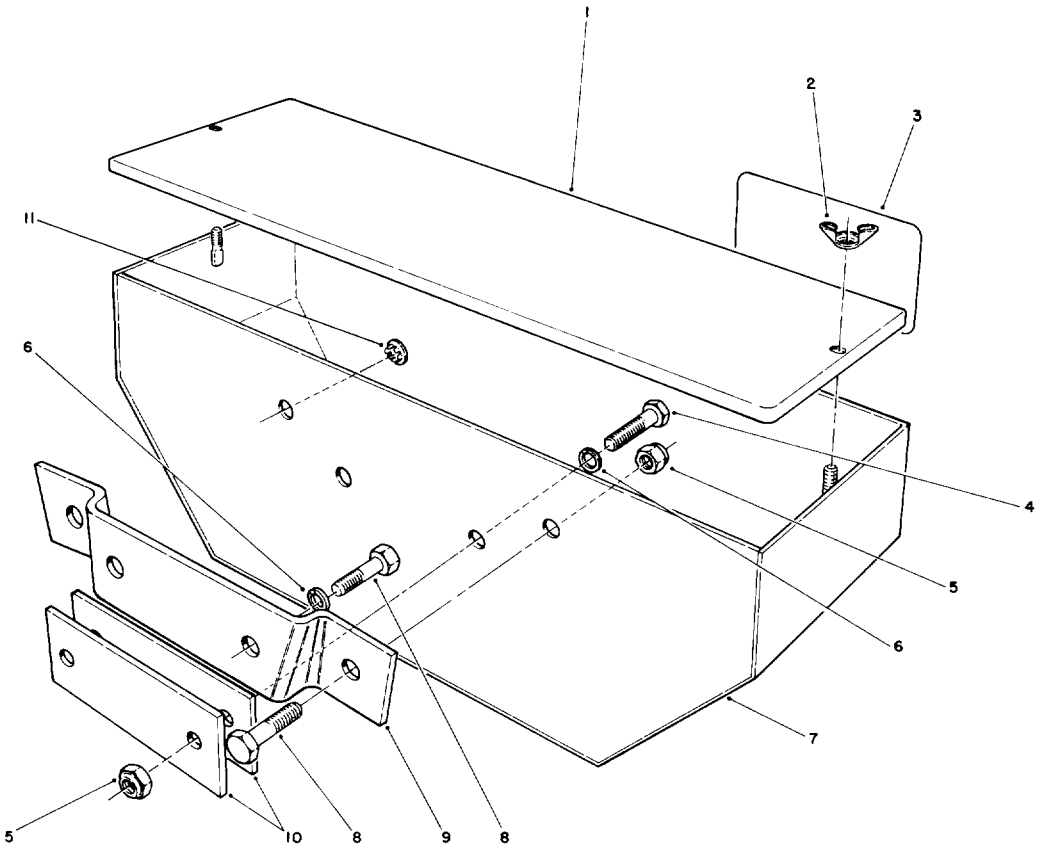


T-0193-88

TRACTOR SHIELD KIT MODEL NO. 30567 (Optional)

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

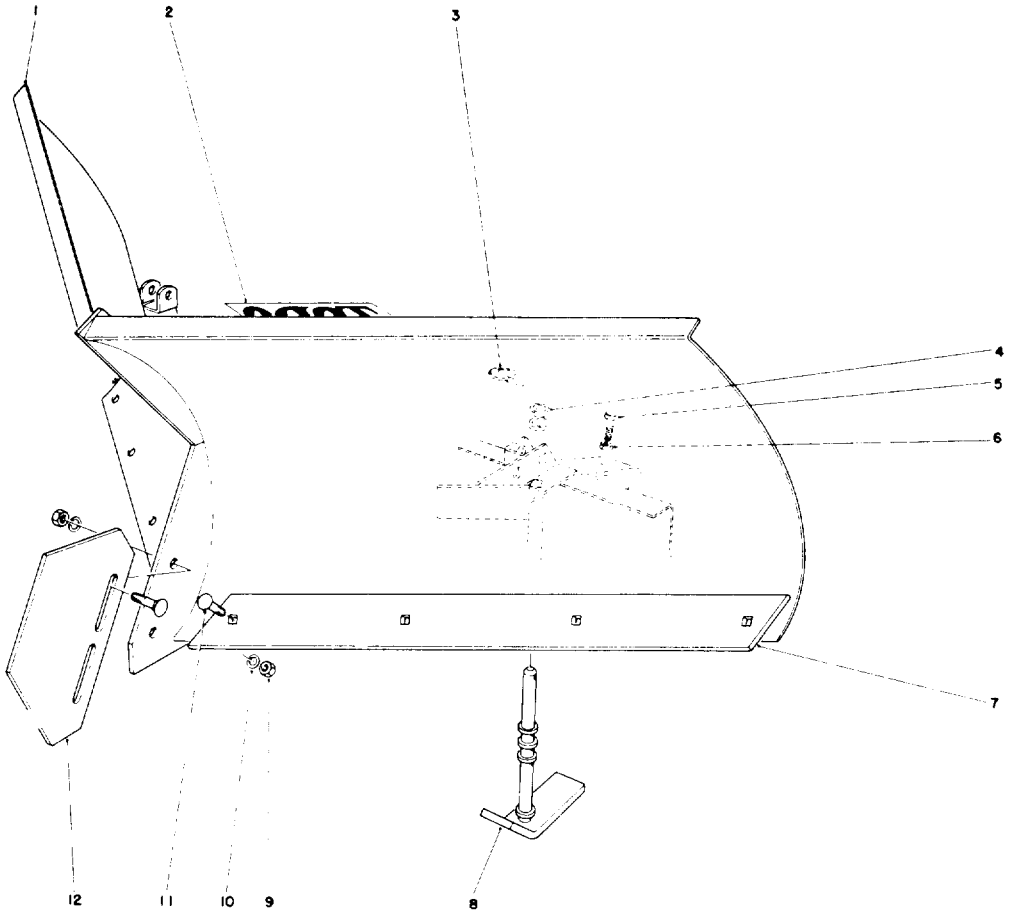


T-0404-89

WEIGHT BOX KIT NO. 62-6590 (Optional)

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, 224, 322D & 327)	2
5	3296-25	Locknut (GM-220, 224 Only)	4
5	3296-25	Locknut (GM-117, 217-D, 220, 224 & 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 & 224)	4
9	61-4140	Bracket (GM-117, 217-D, 220 & 224)	1
10	62-6710	Plate (GM-322D, 327)	2
11	2410-67	Plug	2

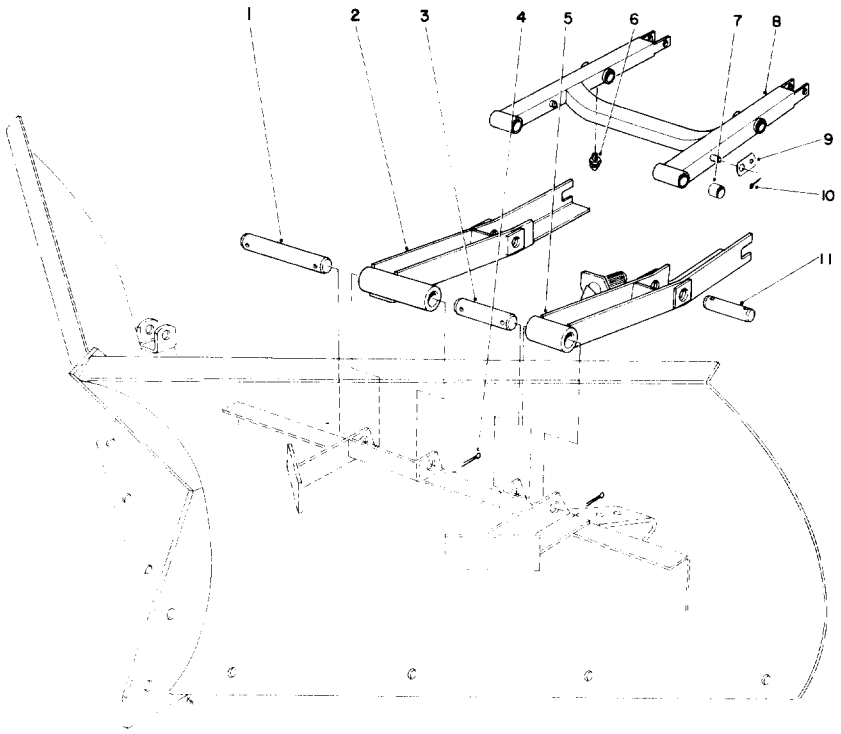


T-0452-89

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



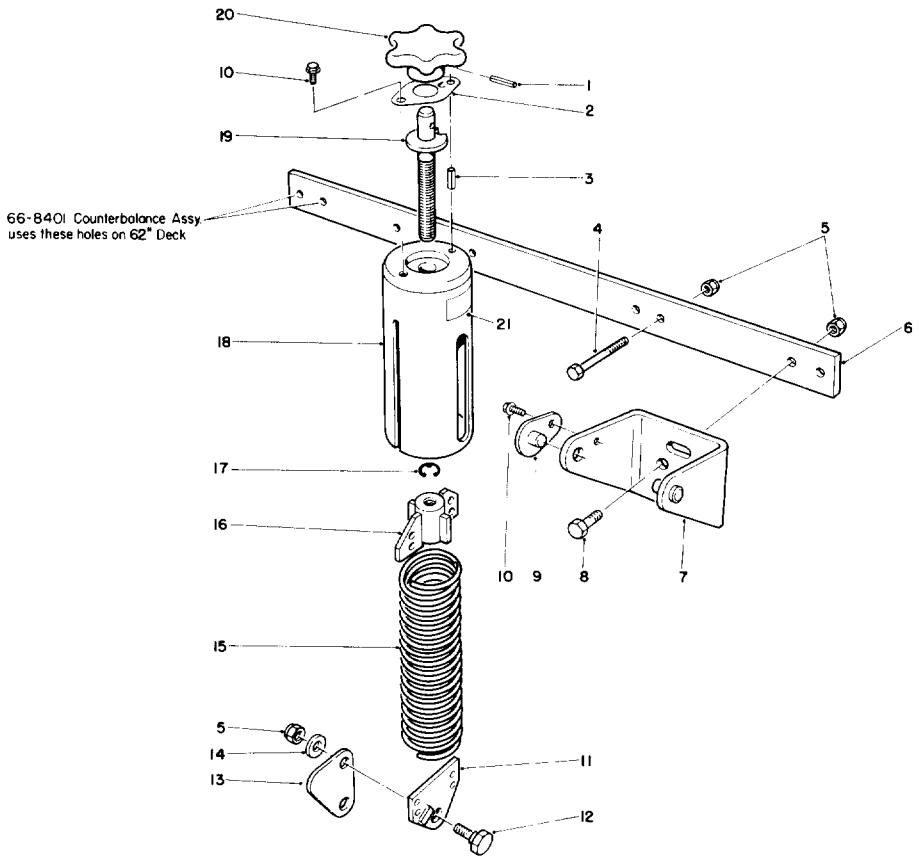
T-0631-89

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.



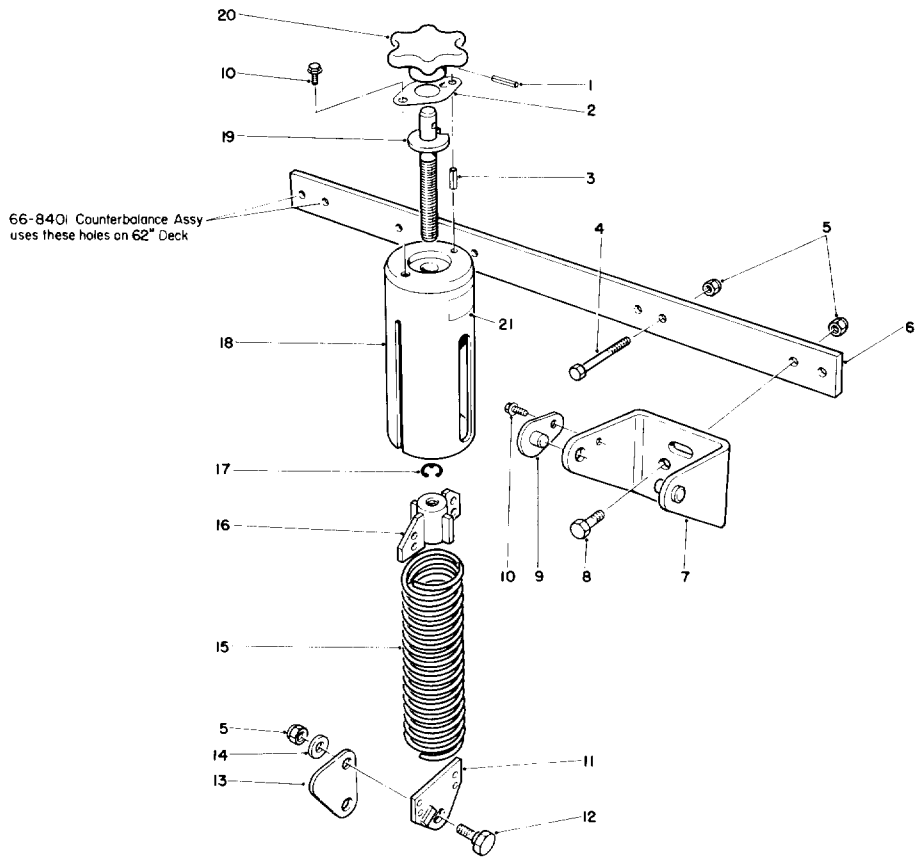
T-0600-89

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	—

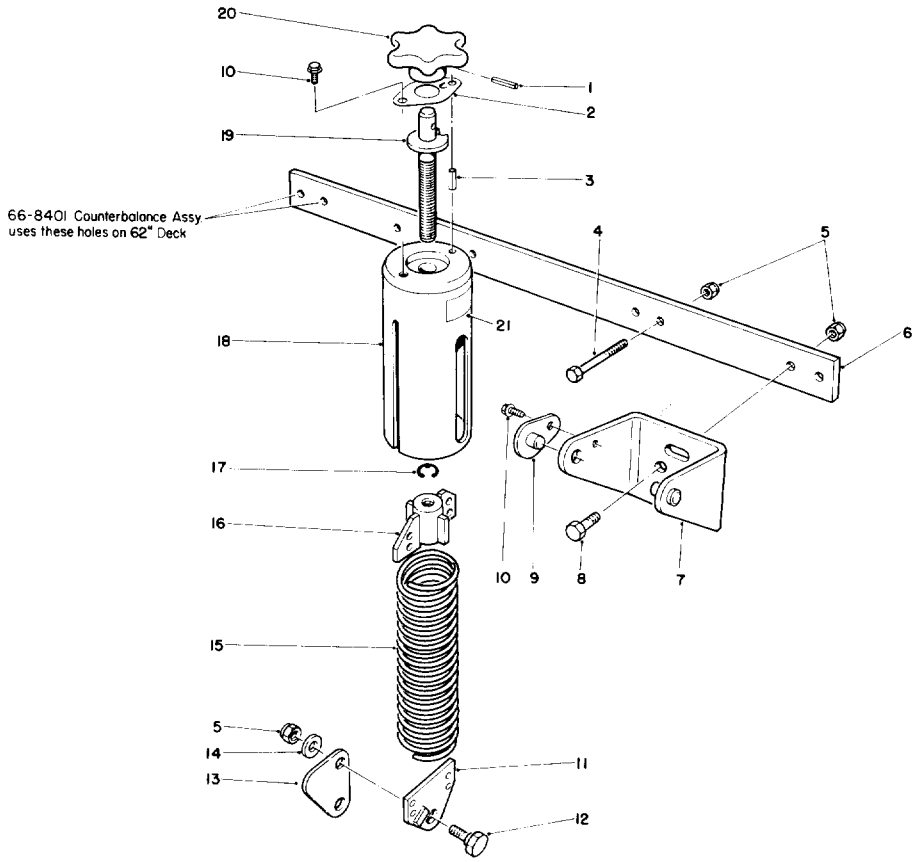
Ref. No.	Part No.	Description	No. Used
*	66-8440	Link — Knee	2
14	3256-24	Washer — Flat	4
15	66-8390	Spring — Heavy Duty	1
*††	66-8410	Spring — Light Duty	1
16	66-8340	Spring End	1
17	32120-47	E-Ring	2
18	66-8300	Cover Assembly	2
19	66-8270	Shaft	2
20	59-4380	Knob	2
21	55-4300	Decal — Caution	4
*	66-8400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



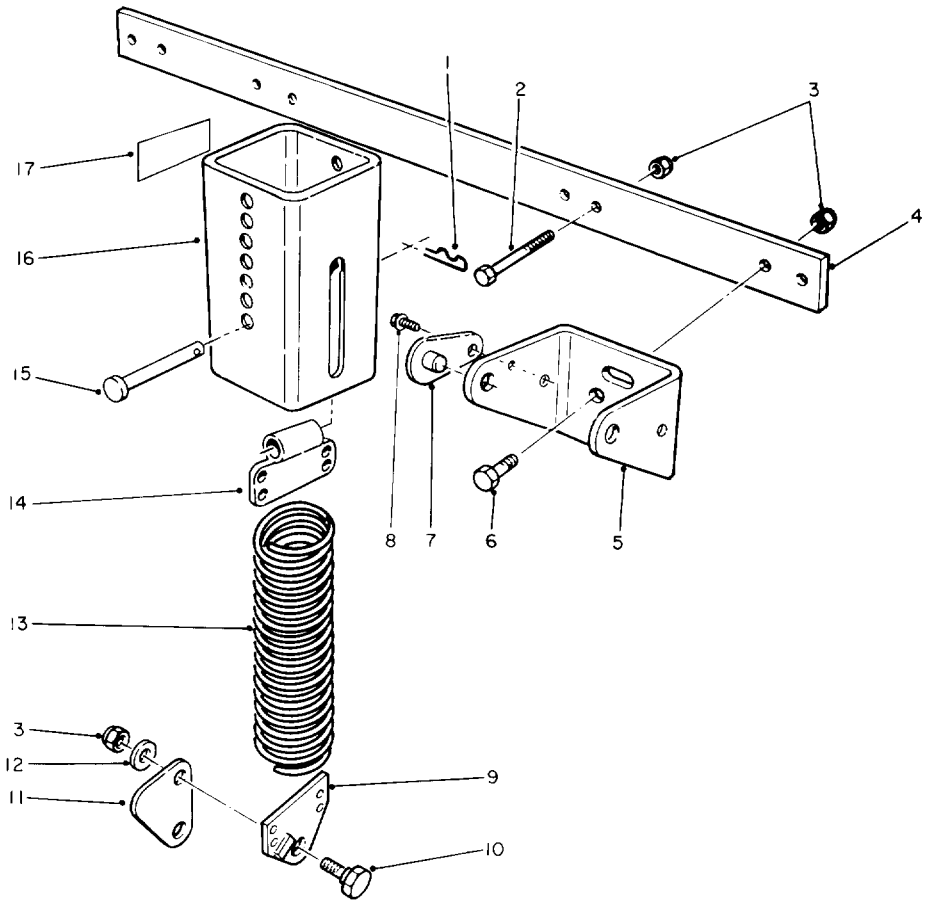
T-0600-89

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.



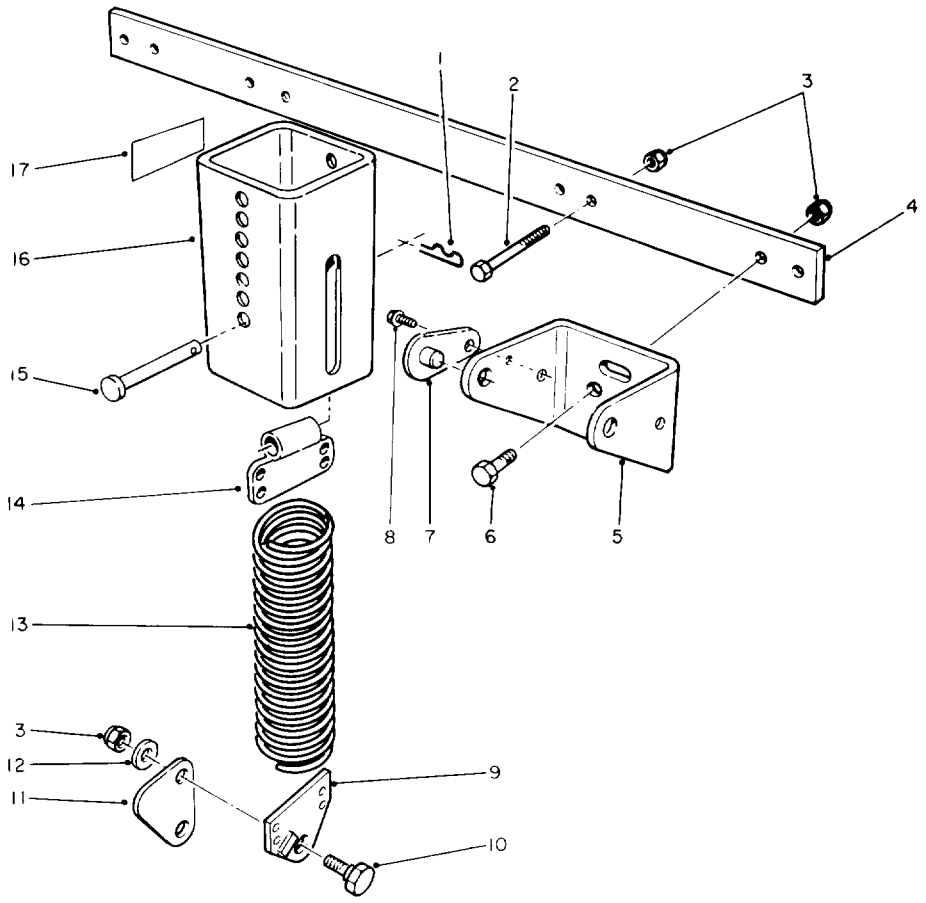
T-0632-89

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



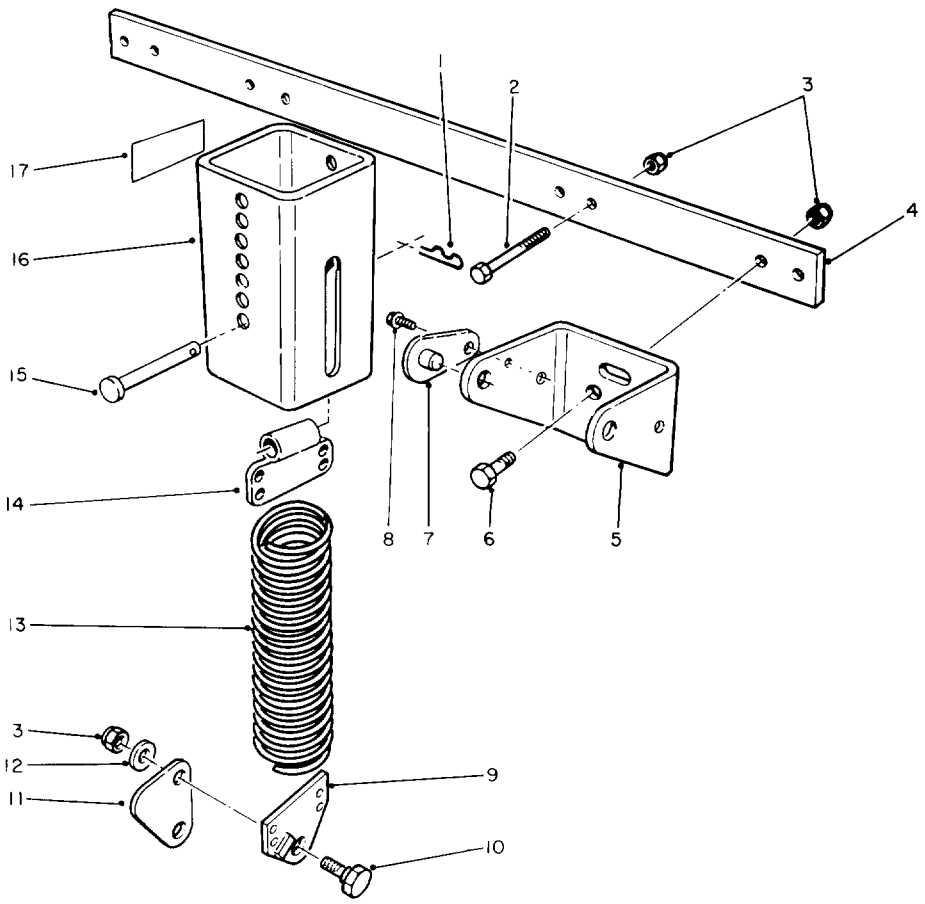
T-0632-89

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.



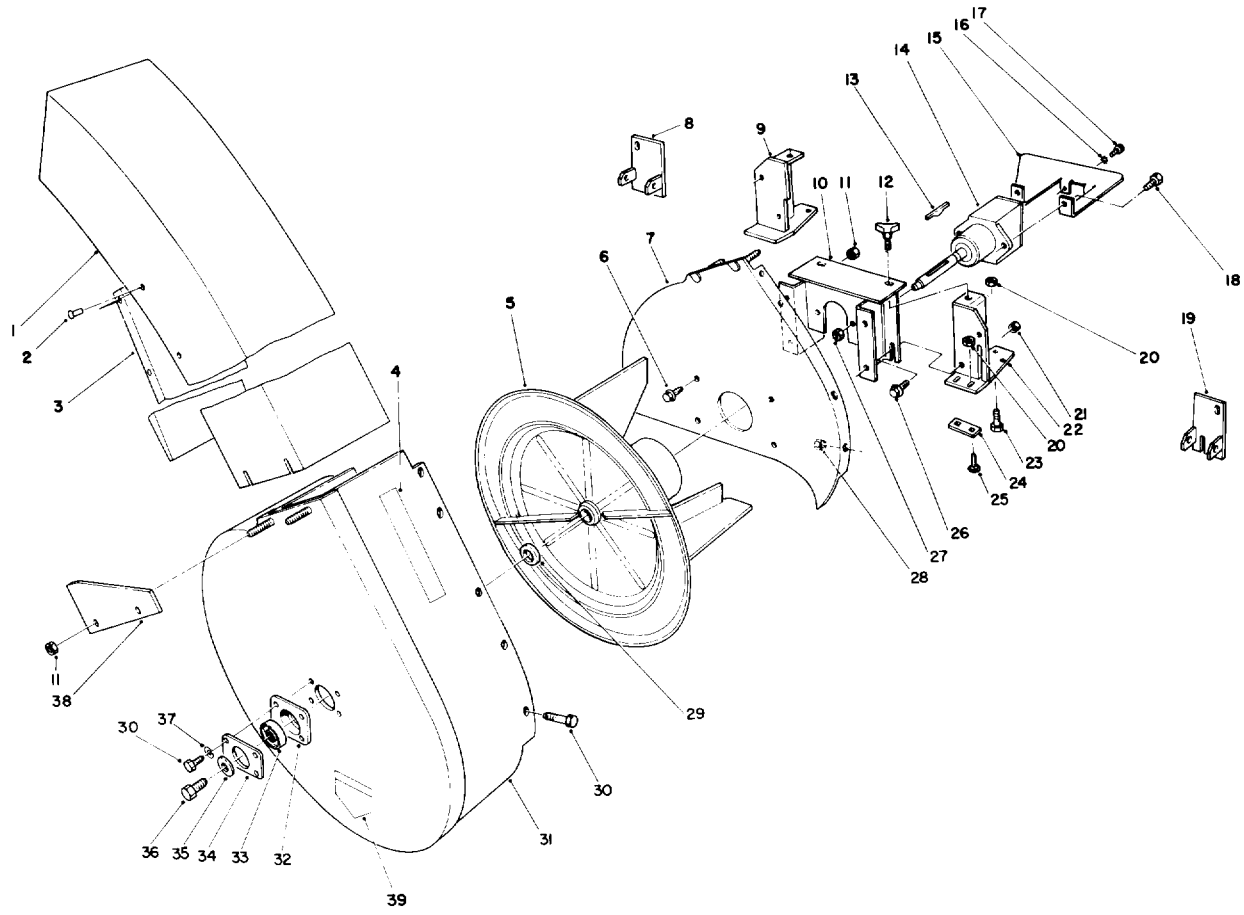
T-0632-89

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.

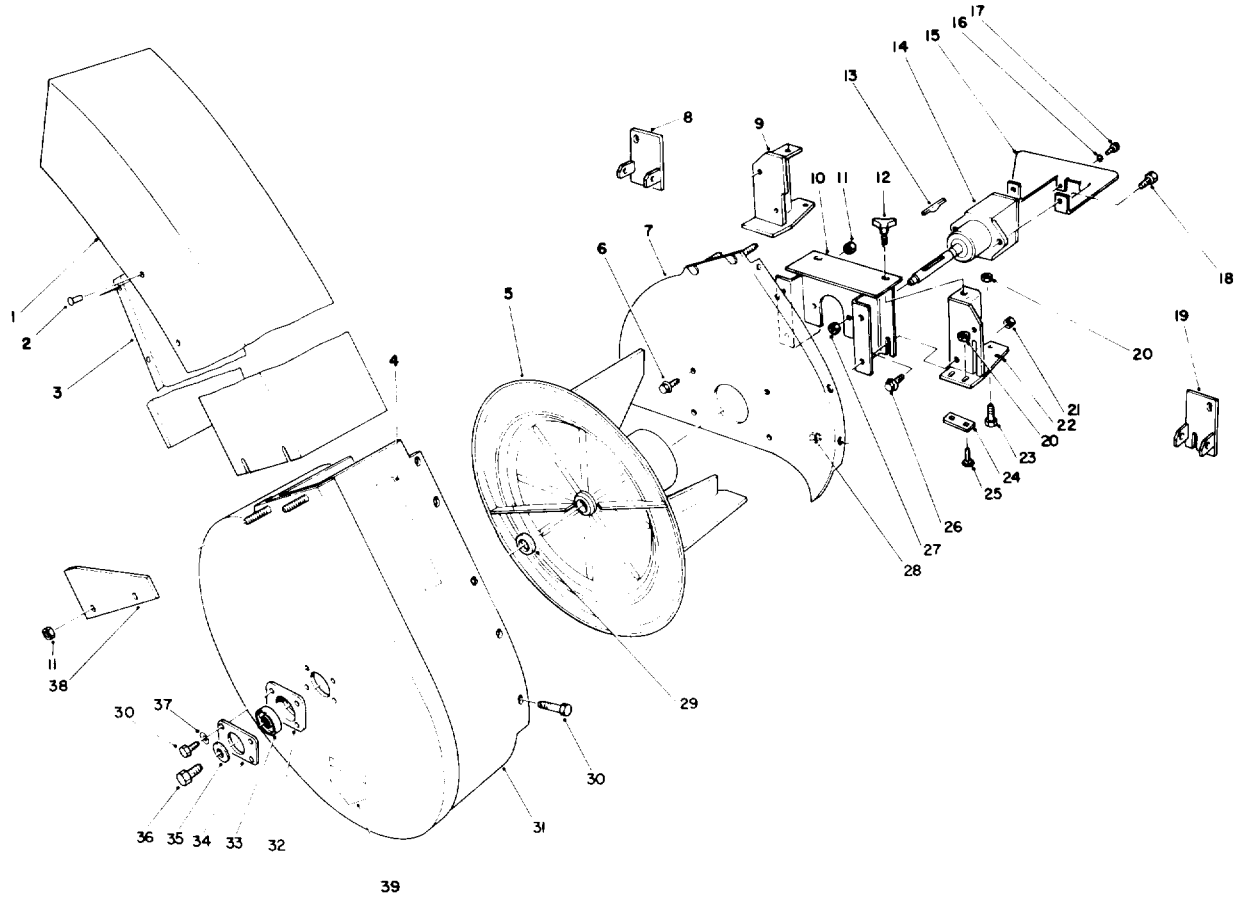


T-0601-89

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

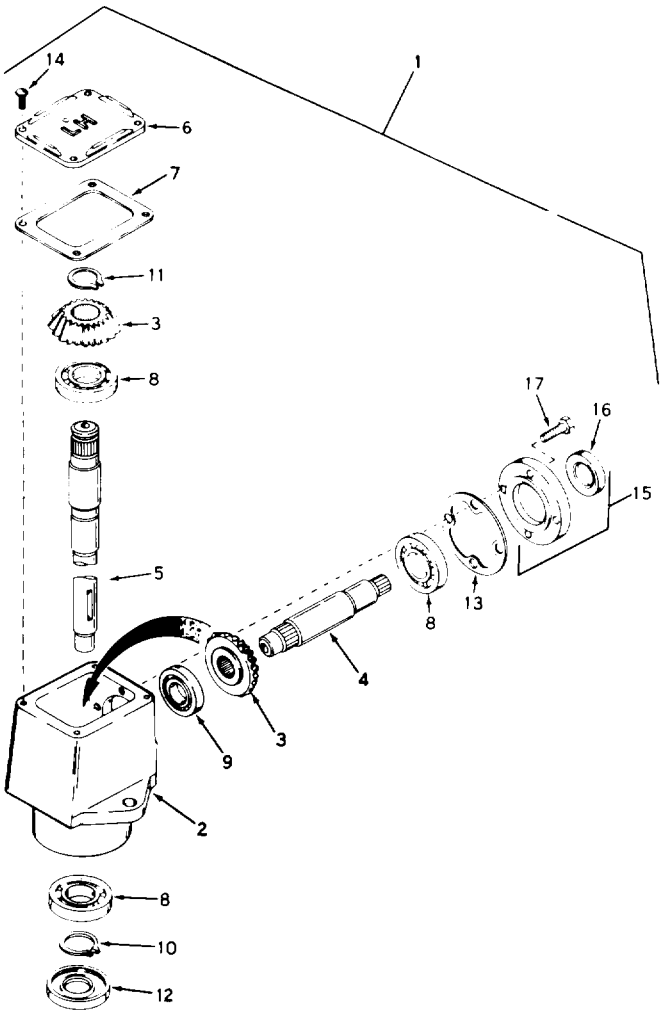


T-0601-89

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

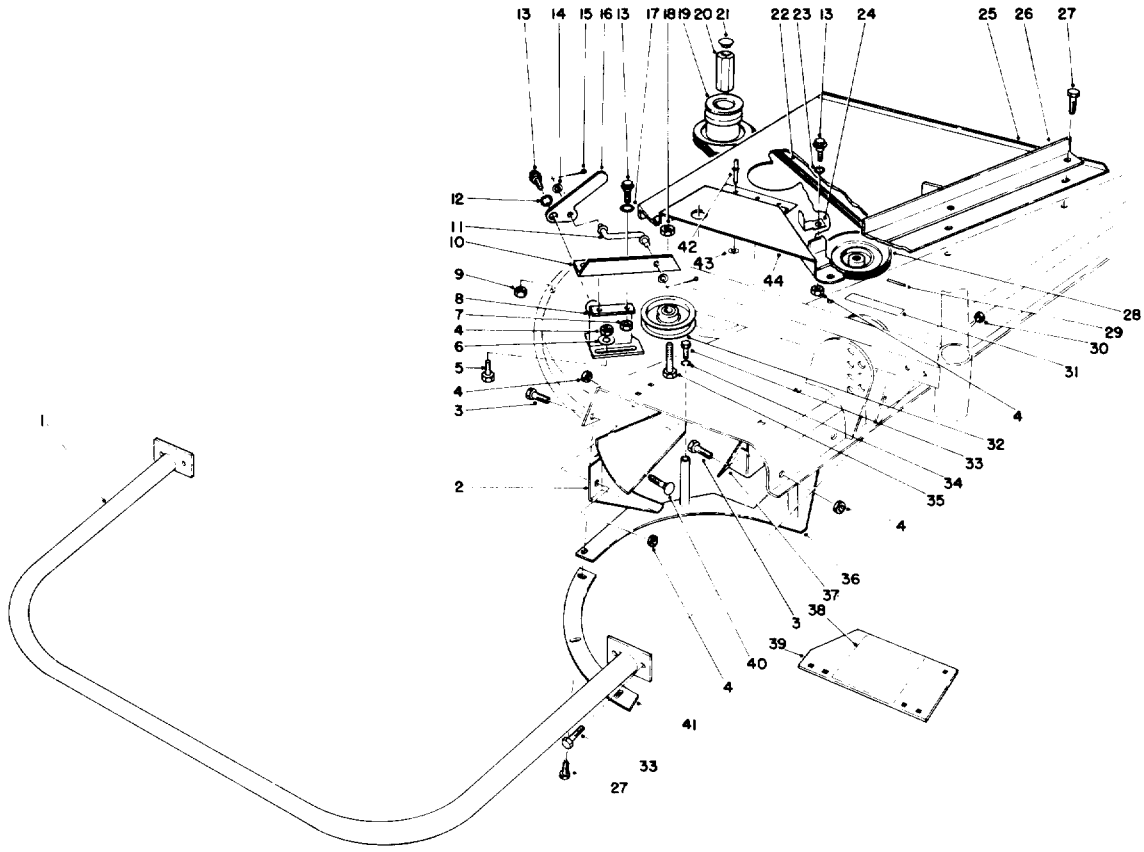
Ref. No.	Part No.	Description	No. Used
35	43-0940	Spacer — Blower Hub	1
36	3235-22	Capscrew	1
37	3253-3	Lockwasher	4
38	43-0960	Bracket — Chute	1
39	43-8480	Decal — Danger	1



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



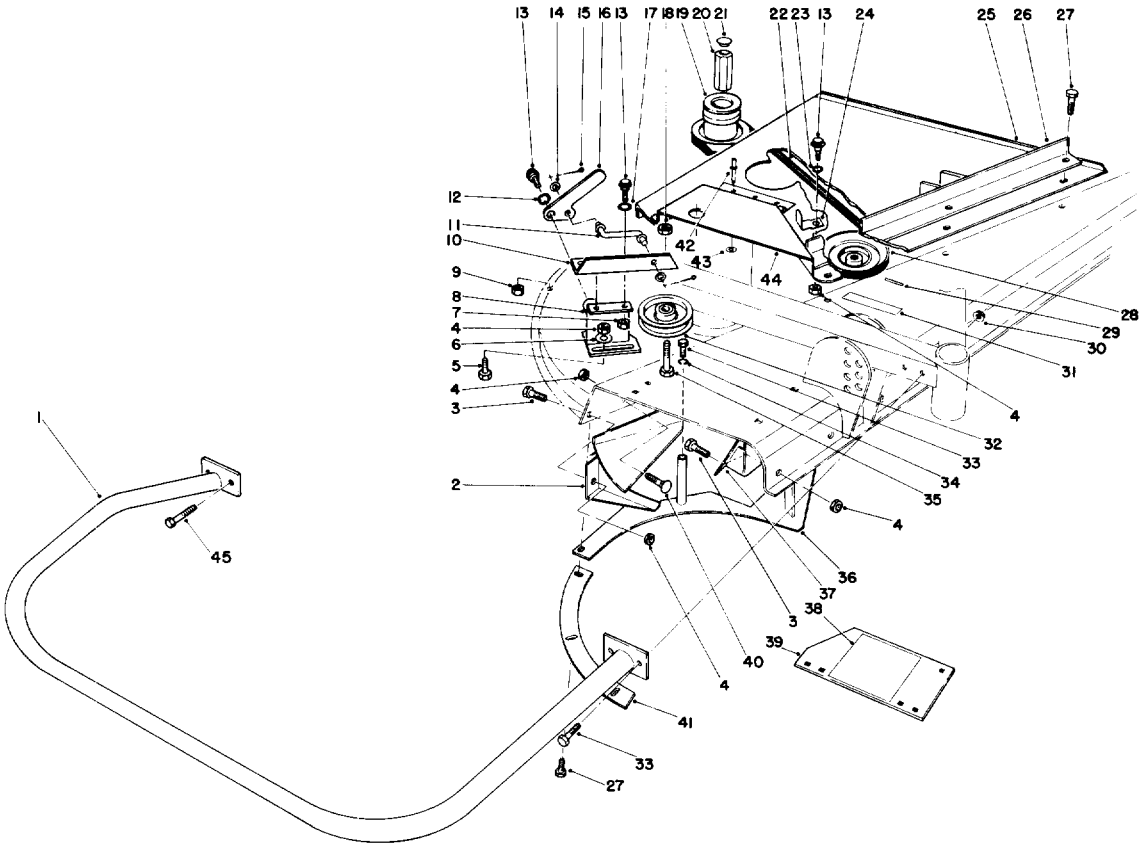
T-0624-89

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

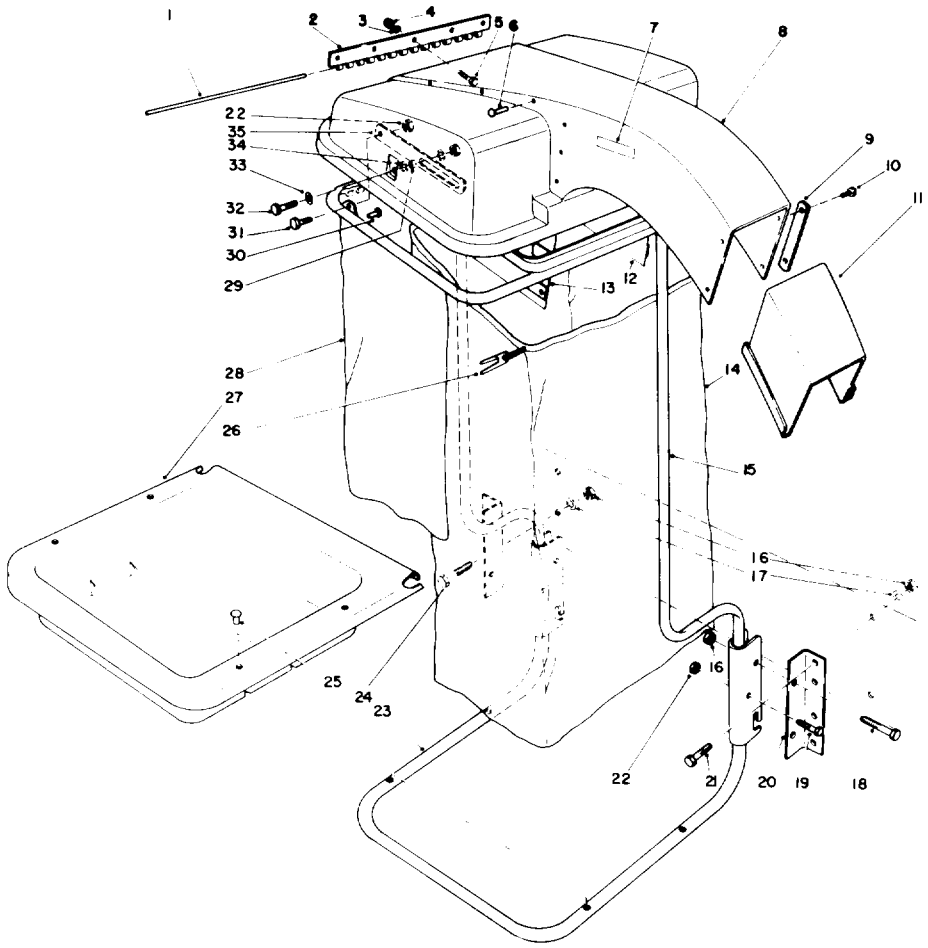
GRASS COLLECTOR MODEL 30561 (Optional) (Continued)
(USED ON UNITS WITH SERIAL NO. 90501 & UP)

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.