

TORO®

MODEL NO. 30789 — 90001 & UP
 MODEL NO. 30721 — 90001 & UP
 MODEL NO. 30710 — 90001 & UP

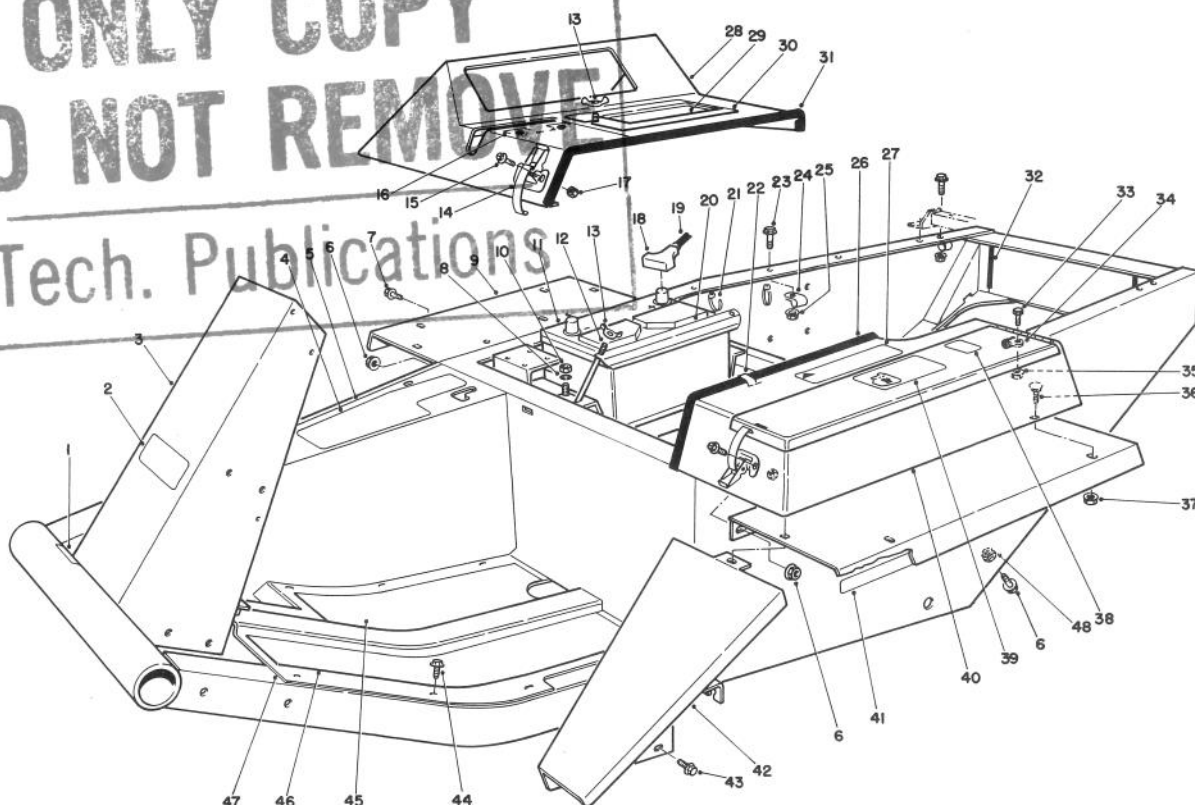
PARTS CATALOG

GROUNDMASTER® 345

(WITH POWER STEERING)

ONLY COPY
DO NOT REMOVE

Tech. Publications



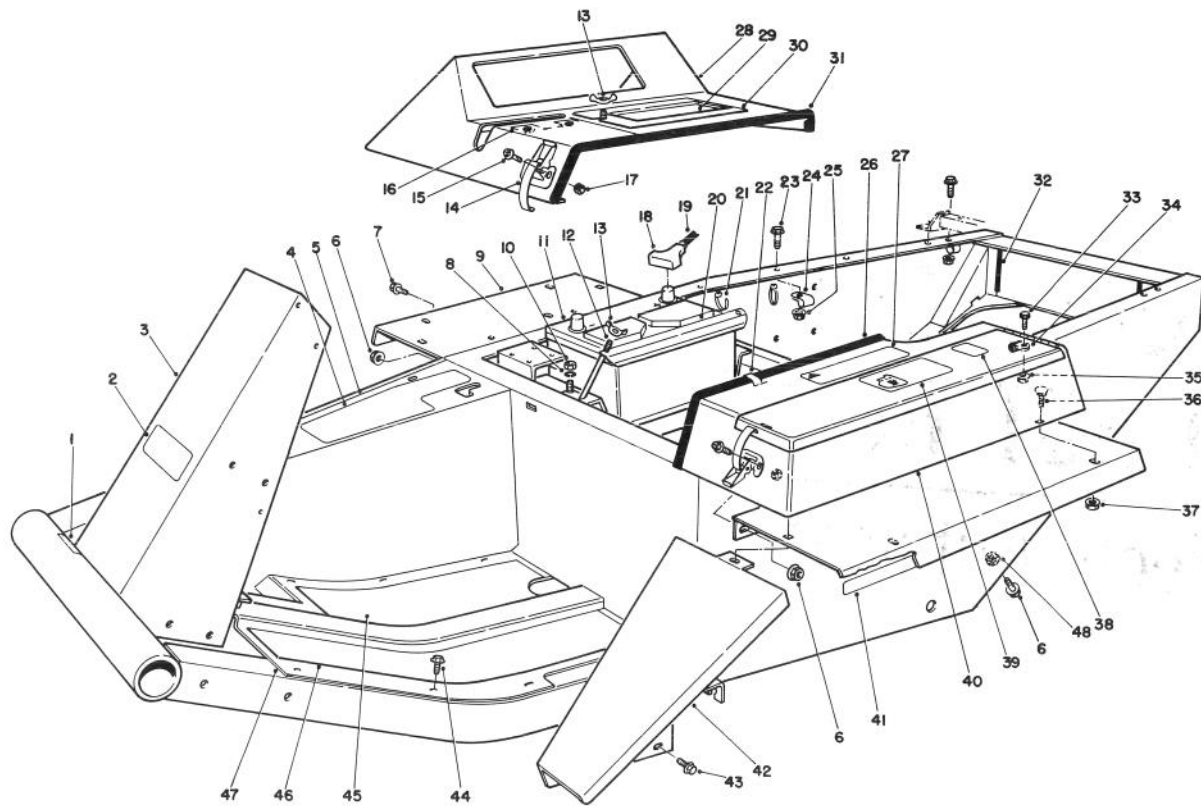
T-0913-89

MAIN FRAME

Ref. No.	Part No.	Description	No. Used
1	27-7320	Decal — Traction Pedal	1
2	63-3280	Decal — Toro	1
3	72-3630	Frame (Incl. Ref. #48)	1
4	66-6390	Decal — Caution	1
5	21-2660	Footrest	1
6	32128-21	Flange Locknut	10
7	3234-12	Screw — Flange Hex. Hd.	4
8	3253-4	Lockwasher	2
9	72-3690	Fender	2
10	3217-6	Nut	2
11†		Battery (Group Size 24)	1
12	24-6390	Stud Battery Hold Down	2
13	32103-2	Wing Nut	2
14	249-21	Hook Clamp	3
15	3290-144	Machine Screw	6

Ref. No.	Part No.	Description	No. Used
16	27-7290	Decal — Power Take Off	1
17	3296-2	Nut	6
18	28-1280	Cable Boot	1
19	70-1180	Cable — Battery Positive (Incl. Ref. #18)	1
20	24-6420	Hold Down Battery	1
21	3290-378	Cable Tie	2
22	2412-61	Clip Tinnerman	2
23	3234-11	Capscrew w/Locking Flange	5
24	2412-4	Clamp	3
25	3290-357	Locknut w/Flange	5
26	37-9650	Trim	1
27	67-1710	Decal — Caution	1
28	38-4550	Instrument Cover	1
29	27-7280	Decal — Starting Instructions	1

†Obtain Locally

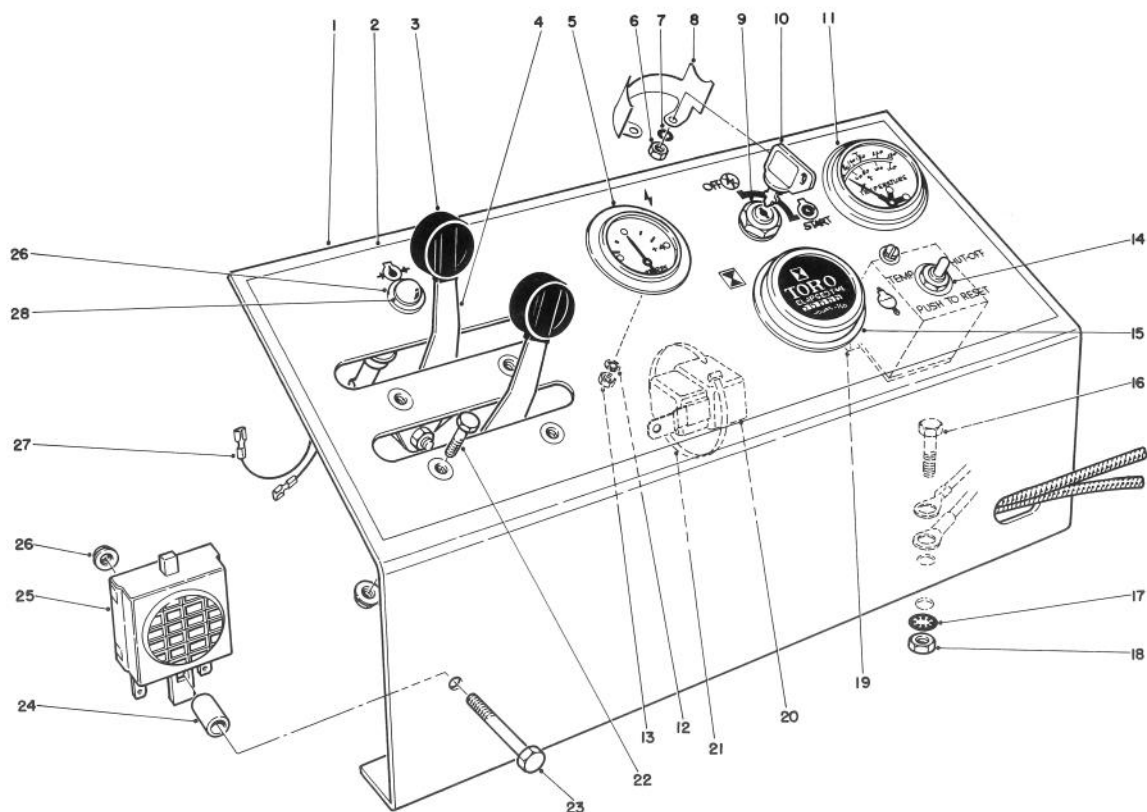


T-0913-89

MAIN FRAME (Continued)

Ref. No.	Part No.	Description	No. Used
30	24-9740	Cover — Battery Access	1
31	39-8020	Trim — Instrument Cover	1
32	43-4300	Trim — Rear Frame	2
33	322-5	Capscrew	1
34	2412-74	Clamp	1
35	32128-20	Nut — Flange Lock	1
36	3229-1	Carriage Bolt	5
37	32128-13	Flange Locknut	5
38	53-4420	Decal — Fuel	1
39	27-7310	Decal — Refueling	1

Ref. No.	Part No.	Description	No. Used
40	38-4530	Tool Box	1
41	67-1720	Decal — Torque	2
42	68-8610	Fender — Extension	1
43	3234-14	Capscrew, Hex. Hd.	2
44	12-3270	Screw, Self Tapping	11
45	21-2770	Pad — Foot Rest R.H.	1
46	21-2760	Pad — Foot Rest L.H.	1
47	23-5220	Floor Plate	1
48	3234-25	Screw — Flange Hex.	4



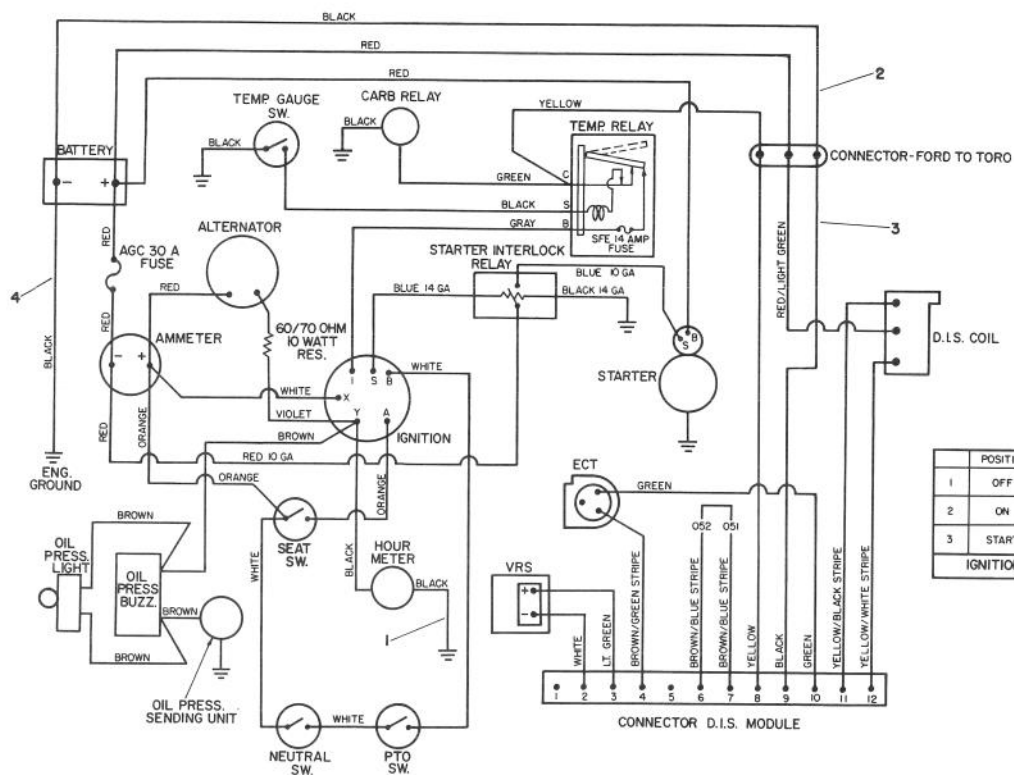
T-0914-89

INSTRUMENT PANEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	70-2030	Decal — Instrument Panel	1
2	28-1580	Panel Instrument	1
3	233-35	Knob Control	2
4	67-8560	Throttle & Choke Control (Incl. Ref. #3)	2
5	12-9990	Hour Meter	1
6	3219-14	Nut	2
7	3254-1	Lockwasher	2
8	38-1670	Mounting Clamp	1
9	27-2360	Key Switch	1
10	63-8360	Key	1
11	38-1660	Ammeter	1
12	3254-9	Lockwasher	2
13	3217-29	Nut, Hex	2
14	26-6740	Temperature Reset Relay	1
15	67-8550	Engine Temperature Gauge	1

Ref. No.	Part No.	Description	No. Used
16	322-5	Capscrew	2
17	3254-2	Lockwasher — Int. Tooth	4
18	3217-6	Nut	2
19†		Fuse Temp. Relay 14 amp SFE	1
20	63-7590	Relay	1
21	3290-379	Cable Tie	1
22	3290-134	Screw, Machine Hex. Hd.	4
23	3290-360	Screw, Machine Hex. Hd.	1
24	22-7810	Spacer	1
25	22-7820	Buzzer Assembly	1
26	32128-17	Nut, Flange Lock	5
27	44-2220	Lead Wire	2
28	218-516	Lens	1
29	44-2210	Warning Light (Incl. Ref. #28)	1

†Obtain Locally



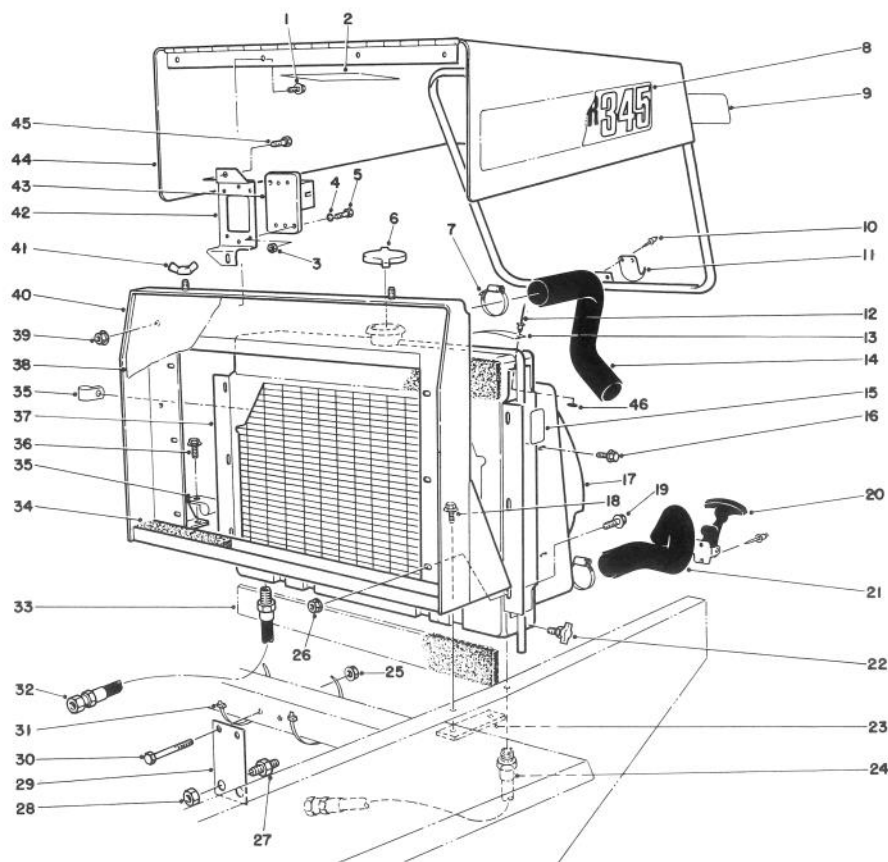
T-0915-89

ELECTRICAL SCHEMATIC

Ref. No.	Part No.	Description	No. Used
1	21-2370	Wire Hour Meter Ground	1
2	67-8580	Wire Harness Assembly	1

Ref. No.	Part No.	Description	No. Used
3†		Wire Harness (Ford)	1
4	67-8540	Ground Cable	1

†Obtain from Ford Motor Co.

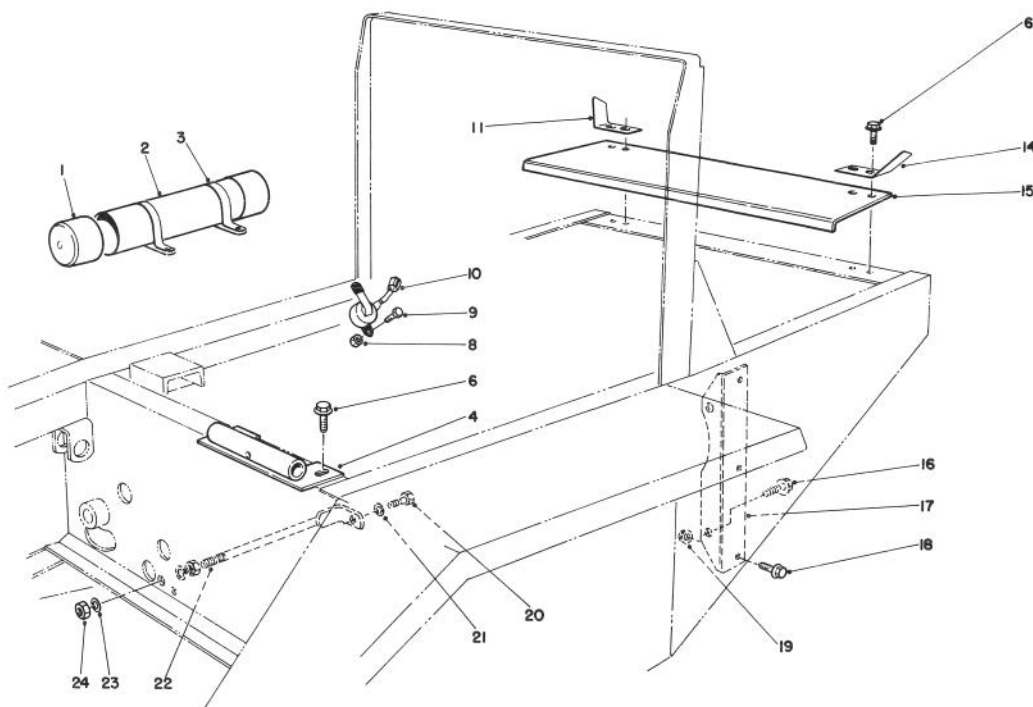


T-0916-89

RADIATOR & HOOD ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	32144-10	Screw — Hex. Hd., Self-Tapping	4	25	32128-21	Nut — Flange	2
2	26-7530	Decal — Coolant, Engine	1	26	32128-20	Nut — Flange	6
3	48-7890	Nut — Metric	2	27	340-71	Union — Bulkhead	2
4	43-5930	Washer — Metric	2	28	340-70	Locknut — Bulkhead	2
5	48-7630	Screw — Metric	2	29	68-9160	Bracket	1
6	66-3240	Cap — Pressure, Radiator	1	30	323-14	Screw — Cap, Hex Hd.	2
7	2412-3	Clamp — Hose	4	31	3290-379	Tie — Cable	4
8	67-8880	Decal — Groundsmaster 345	2	32	43-4310	Hose Assembly — Valve to Cooler	1
9	66-6140	Decal — Toro	1	33	43-3320	Foam — Radiator	2
10	3269-16	Rivet	4	34	70-1790	Strip — Foam, Sealing	1
11	249-40	Keeper	1	35	2412-39	Clamp	2
12	3269-13	Rivet	2	36	11-0590	Screw — Cap, Hex Hd. Self-Tapping	2
13	67-1650	Decal	1	37	67-8590	Radiator Assembly	1
14	70-1630	Hose — Radiator, Upper	1	38	67-8680	Grille — Radiator	1
15	54-0890	Decal — Warning	2	39	32128-33	Nut — Flange, Lock	2
16	32104-116	Screw — Flange, Hex Hd.	4	40	70-1840	Support — Radiator	1
17	67-8640	Shroud — Radiator	1	41	32103-2	Nut — Wing	2
18	3234-1	Screw — Cap, Flange Hd. Locking	2	42	70-1660	Bracket — E.S.C. Module — ESC	1
19	3234-14	Screw — Flange, Hex Hd.	6	43†		Hood	1
20	59-9740	Latch — Draw (Incl. Ref. #11)	1	44	12-5899	Hood	1
21	67-8660	Hose — Radiator, Lower	1	45	321-39	Screw — Cap, Hex Hd.	2
22	304-46	Draincock	1	46	3269-10	Washer	2
23	38-4600	Bar — Frame, L.H.	1				
24	63-9010	Hose Assembly — Cooler to Pump	1				

†Obtain from Ford Motor Co.

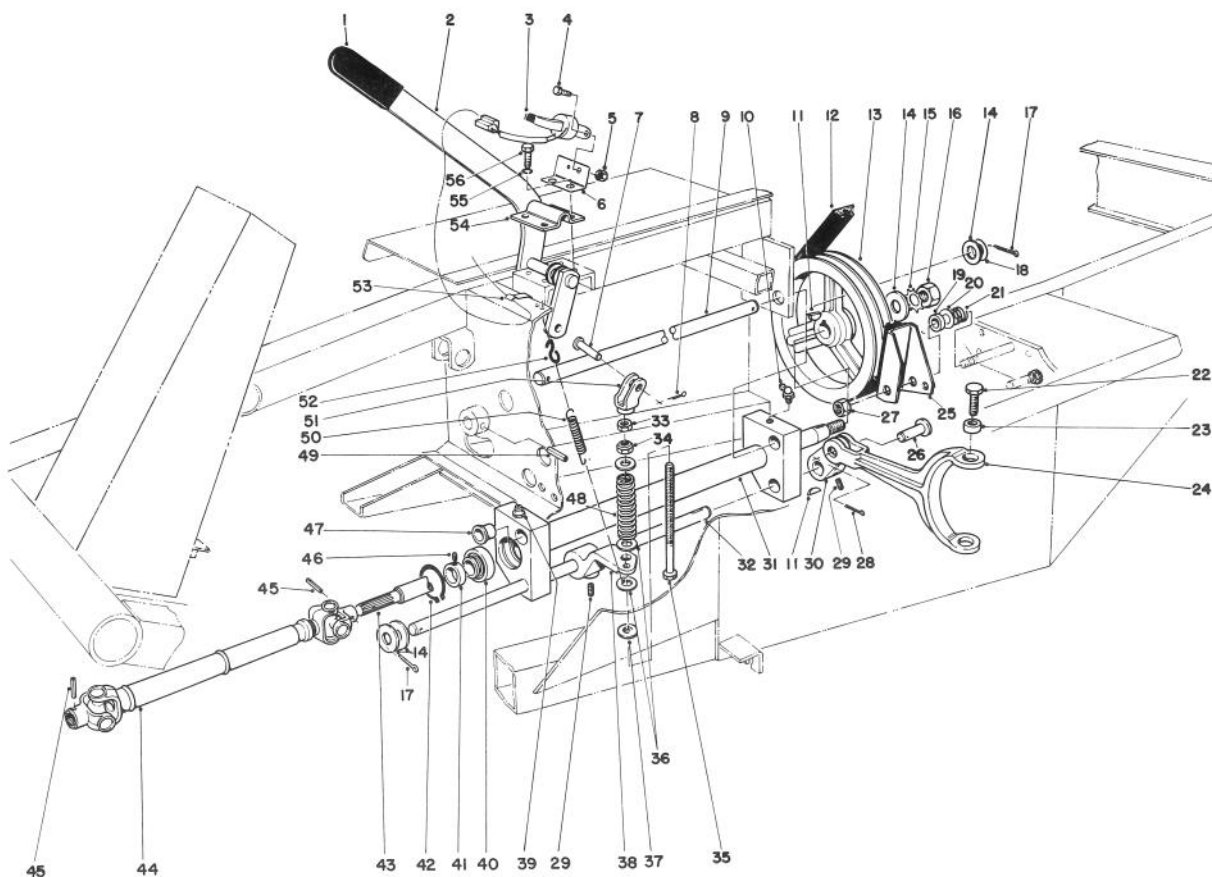


T-0917-89

INTERLOCK ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	65-5890	Cap	2
2	65-5870	Tube — Manual	1
3	2412-102	"R" Clamp	2
4	27-9810	Seat Pivot	1
6	3234-17	Capscrew — Flange	6
8	3296-42	Locknut Nylon Insert	1
9	321-2	Capscrew	2
10	29-6930	Switch	1
11	62-3010	Bracket R.H.	1
14	62-3020	Bracket L.H.	1

Ref. No.	Part No.	Description	No. Used
15	70-1890	Guard — Flywheel	1
16	3234-6	Capscrew w/Locking Flange	2
17	67-8190	Bracket — Engine Support	2
18	3234-11	Capscrew w/Locking Flange	6
19	3290-357	Nut w/Locking Flange	6
20	323-3	Screw — Cap Hex. Hd.	1
21	3253-21	Washer — Lock	1
22	24-9830	Support Axle	1
23	3256-5	Washer	2
24	3217-9	Nut	2

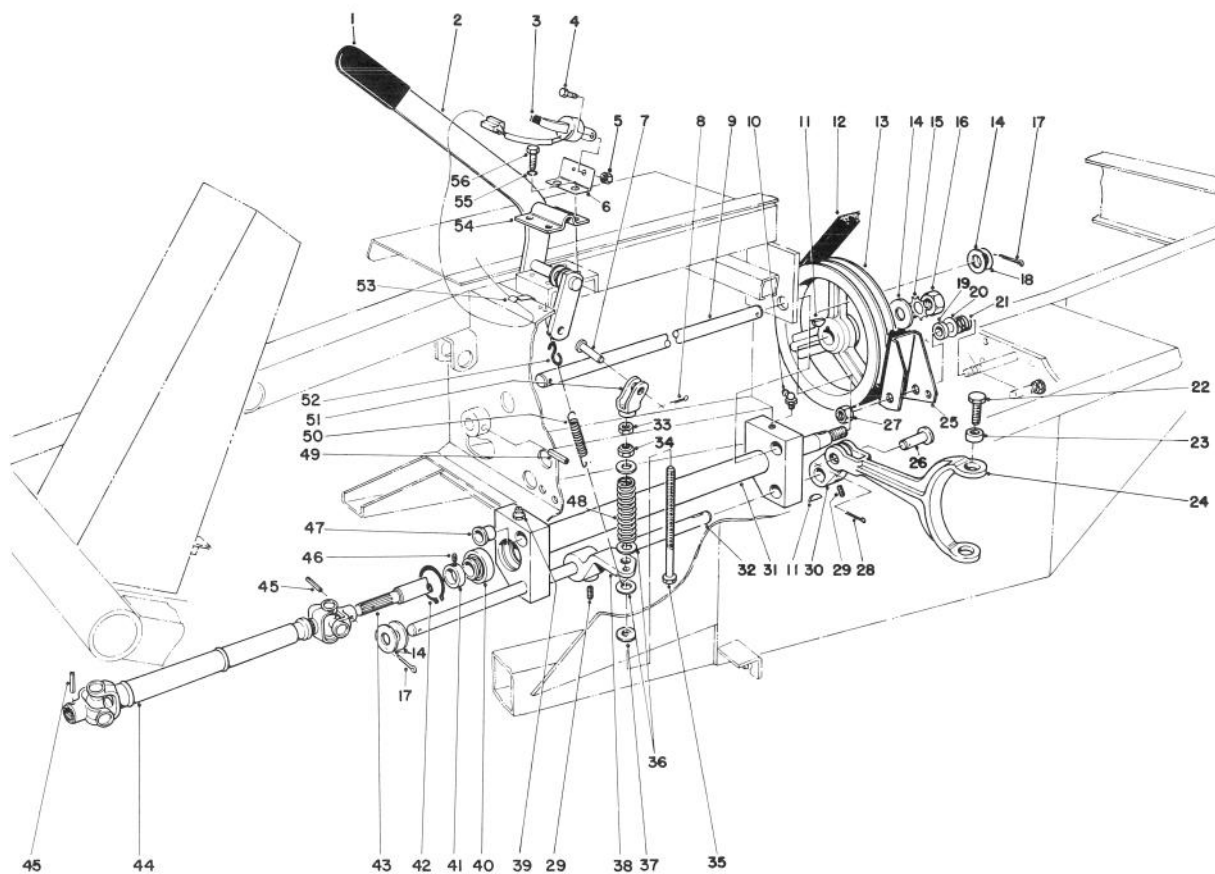


T-0413-89

POWER TAKE OFF ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	21-1880	Grip Handle	1
2	21-1550	Lever — P.T.O.	1
3	29-6930	Switch Arm	1
4	321-2	Capscrew	1
5	3296-42	Locknut	1
6	27-7260	Mount — Arm Switch	1
7	283-42	Clevis Pin	1
8	3272-10	Cotter Pin	1
9	43-3860	Shaft — Pivot P.T.O.	1
10	302-10	Grease Fitting	1
11	3257-5	Woodruff Key	3
12	53-9660	V-Belt Torque Team	1
13	21-0230	Pulley P.T.O.	1
14	3256-28	Washer	4
15	3254-7	Lockwasher	1
16	3219-7	Nut	1
17	3272-22	Cotter Pin	2
18	3-6498	Washer	A/R
19	3-8812	Spacer	1
20	3256-6	Washer	1
21	5-1747	Spring	1
22	30-2120	Capscrew Hex. Hd.	2
23	43-3800	Bushing — P.T.O. Fork	2

Ref. No.	Part No.	Description	No. Used
24	43-5610	Fork P.T.O.	1
25	27-7370	Brake Assembly P.T.O.	1
26	283-8	Clevis Pin	1
27	3296-28	Locknut	1
28	3272-11	Cotter Pin	1
29	3246-3	Set Screw	4
30	43-5590	Arm — P.T.O.	1
31	43-5500	Pivot P.T.O.	1
32	43-5550	Shaft — Actuator P.T.O.	1
33	3219-3	Nut	1
34	3296-6	Locknut	1
35	27-7900	Screw — Adjusting	1
36	3256-41	Washer	3
37	5-0652	Spacer	1
38	43-5570	Arm, Actuator — P.T.O.	1
39	302-2	Grease Fitting	1
40	251-252	Ball Bearing (Incl. Ref. #41)	2
41	251-234	Lock Collar (Incl. Ref. #46)	2
42	32120-22	Ring Retaining	2
43	43-5540	Shaft P.T.O.	1
44	62-4260	Drive Shaft Assembly	1
45	32121-34	Roll — Pin	2
46	3245-1	Set Screw	2

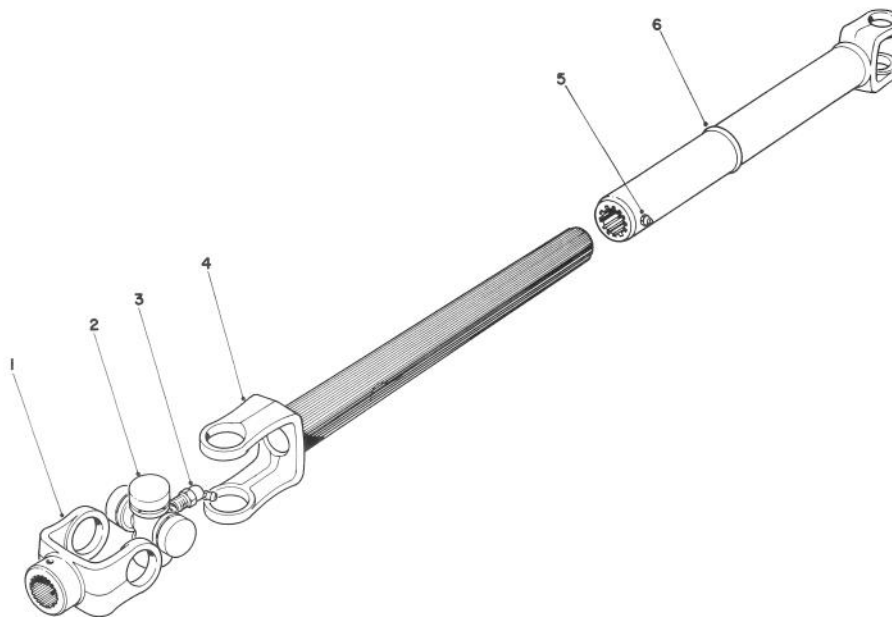


T-0413-89

POWER TAKE OFF ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
47	256-113	Flanged Bushing	4
48	21-0400	Spring — Compression	1
49	32121-9	Roll Pin	1
50	21-1830	Spring — Tension	1
51	43-5630	Yoke P.T.O.	1

Ref. No.	Part No.	Description	No. Used
52	5-0701	Spring — Anchor	1
53	212-93	Wire Clip	1
54	21-1600	Clamp P.T.O. Lever	1
55	3253-21	Lockwasher	4
56	32104-6	Hex Hd. Self Tapping Screw	4

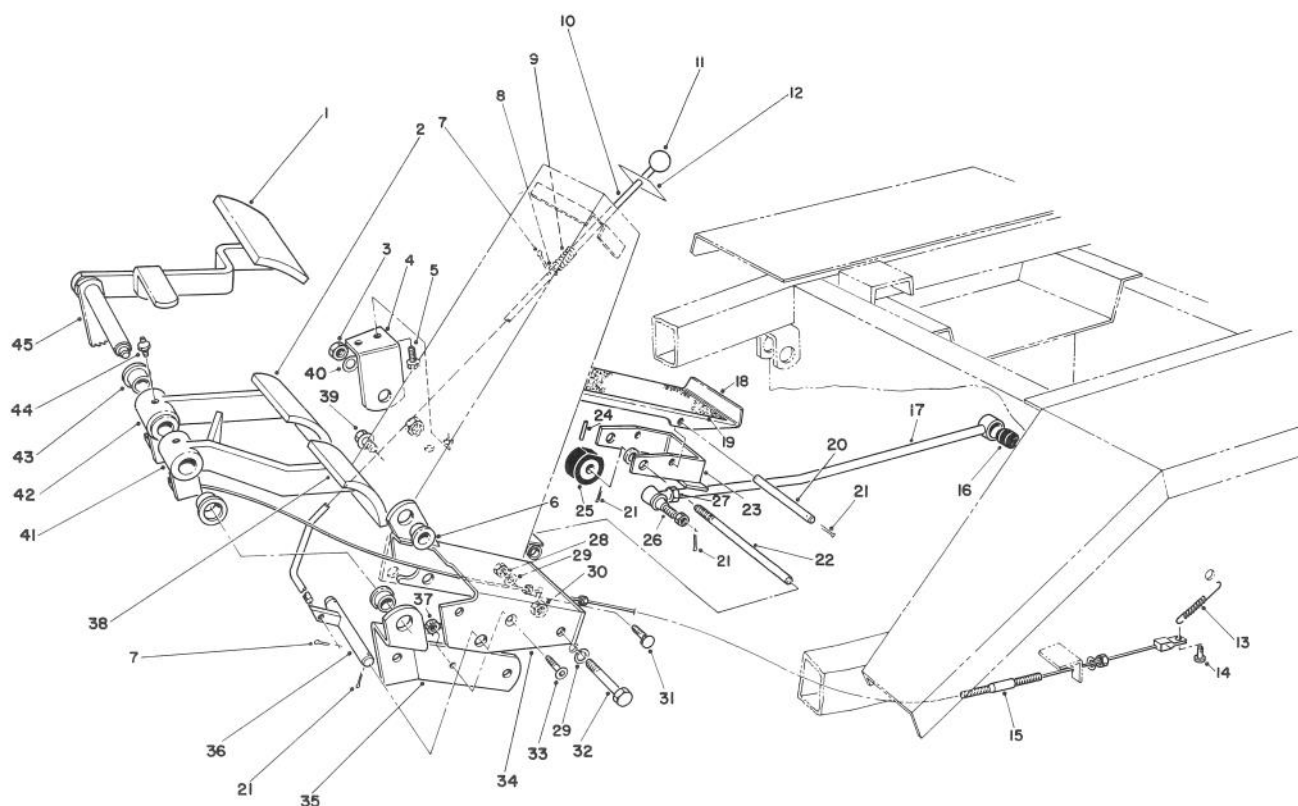


T-0414A-89

DRIVE SHAFT ASSEMBLY NO. 62-4260

Ref. No.	Part No.	Description	No. Used
1	62-3800	End Yoke	2
2	54-9180	U-Joint Kit	2
3	62-3820	Grease Fitting	1

Ref. No.	Part No.	Description	No. Used
4	63-3290	Slip Yoke Shaft	1
5	62-3880	Grease Fitting	1
6	62-3790	Slip Yoke Tube	1



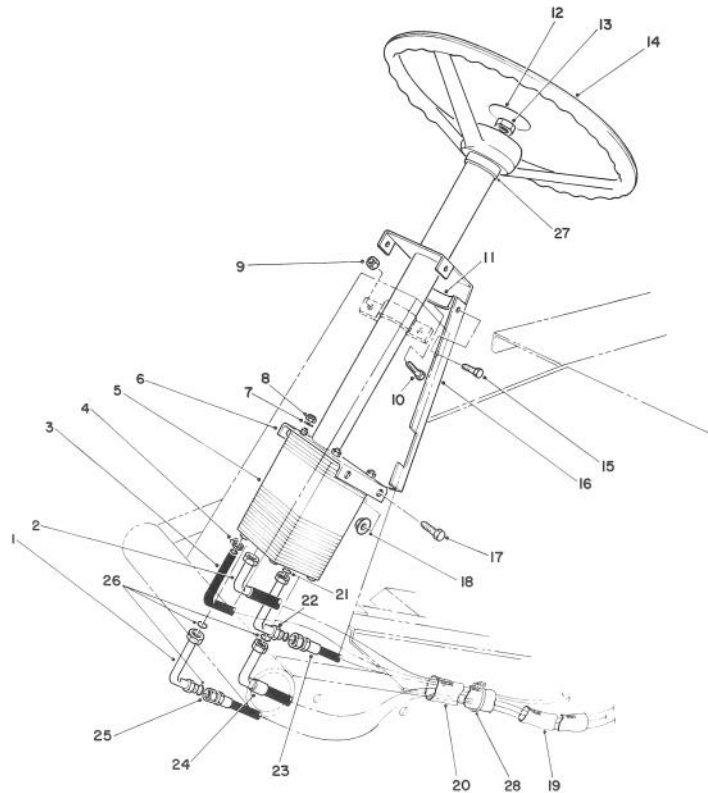
T-0415A-89

BRAKE PEDAL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	7-3900	Pad — Brake	1
2	27-7580	Pad — Right Turn	1
3	3218-5	Jam Nut	2
4	21-2850	Mount — R.H. Pedal	1
5	11-0590	Hex Hd. Self Tapping Screw	2
6	256-156	Bushing	4
7	3272-5	Cotter Pin	3
8	3256-22	Washer — Flat	1
9	3-3251	Spring — Compression	1
10	27-7660	Rod — Brake Latch	1
11	233-17	Knob	1
12	66-6190	Decal — Parking Brake	1
13	3-7243	Spring — Extension	2
14	283-58	Clevis Pin	2
15	21-3380	Cable — L.H. Brake	1
*	21-3370	Cable — R.H. Brake	1
16	23-2270	Bushing — Rubber	1
17	23-2240	Rod — Pump Control	1
18	28-5190	Pedal — Traction	1
19	28-5130	Pad — Pedal	1
20	28-5240	Pin — Traction Pedal	1
21	3272-6	Cotter Pin	7
22	28-5210	Shaft — Traction Pedal	1
23	28-5160	Bracket — Pivot	1

Ref. No.	Part No.	Description	No. Used
24	32121-16	Roll Pin	1
25	28-5220	Wheel — Friction	1
26	21-0140	Socket Assembly — R.H.	1
27	3220-5	Jam Nut	1
28	3217-7	Hex Nut	2
29	3253-21	Lockwasher	4
30	32153-2	Locknut	2
31	3231-21	Carriage Bolt	2
32	323-13	Hex Hd. Capscrew	2
33	3274-47	Hex Socket Flat Hd. Capscrew	1
34	27-7590	Mount — Brake	1
35	27-9270	Mount — Brake Pivot Shaft	1
36	27-7640	Shaft — Brake Latch	1
37	32149-2	Nut	1
38	27-7570	Pad — Left Turn	1
39	3234-11	Capscrew	3
40	3256-26	Washer — Flat	1
41	27-7490	Pedal — L.H. Brake (Incl. Ref. #43)	1
42	27-7510	Pedal — R.H. Brake (Incl. Ref. #43)	1
43	256-10	Bushing	4
44	302-5	Fitting — Grease	2
45	27-8550	Pedal — Parking Brake	1

*Not Illustrated

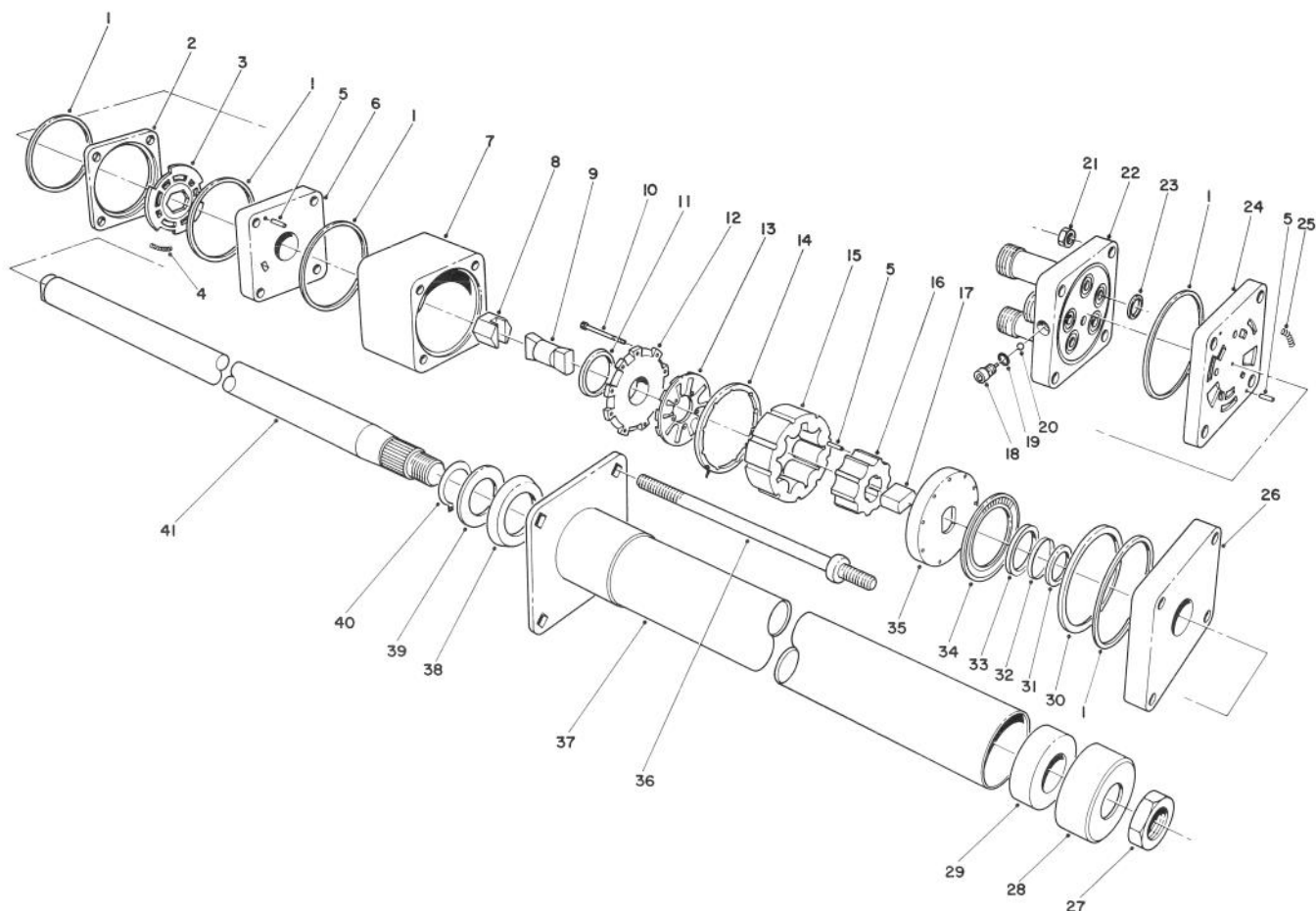


T-0416A-89

POWER STEERING ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	66-1740	90° Elbow	1
2	63-8980	Hose — Aux./Valve	1
3		Hose	1
4	2412-36	Clamp	2
5	63-9250	Valve — Power Steering	1
6	63-8870	Bracket — Column Mount	1
7	3256-3	Washer	4
8	3296-4	Locknut	4
9	3296-29	Locknut	2
10	322-5	Hex Hd. Capscrew	2
11	66-8890	Clamp Half	1
12	24-2090	Cap — Steering Wheel	1
13	66-9760	Hex Nut	1
14	24-2000	Wheel — Steering	1

Ref. No.	Part No.	Description	No. Used
15	32144-10	Hex Hd. Thr'd Form Screw	6
16	66-1680	Cover — Tower	1
17	323-3	Hex Hd. Capscrew	4
18	3290-357	Hex Flange Nut	4
19	70-1390	Sleeve — Protective	1
20	70-1380	Sleeve — Protective	1
21	237-30	O-Ring	1
22	66-1730	90° Elbow	1
23	63-8970	Hose — Trans./Str.	1
24	68-9730	Hose — Str./Cyl.	1
25	68-9720	Hose — Cyl./Str.	1
26	237-22	O-Ring	3
27	21-9260	Cover — Dust	1
28	3290-378	Tie — Cable	2



T-0417-89

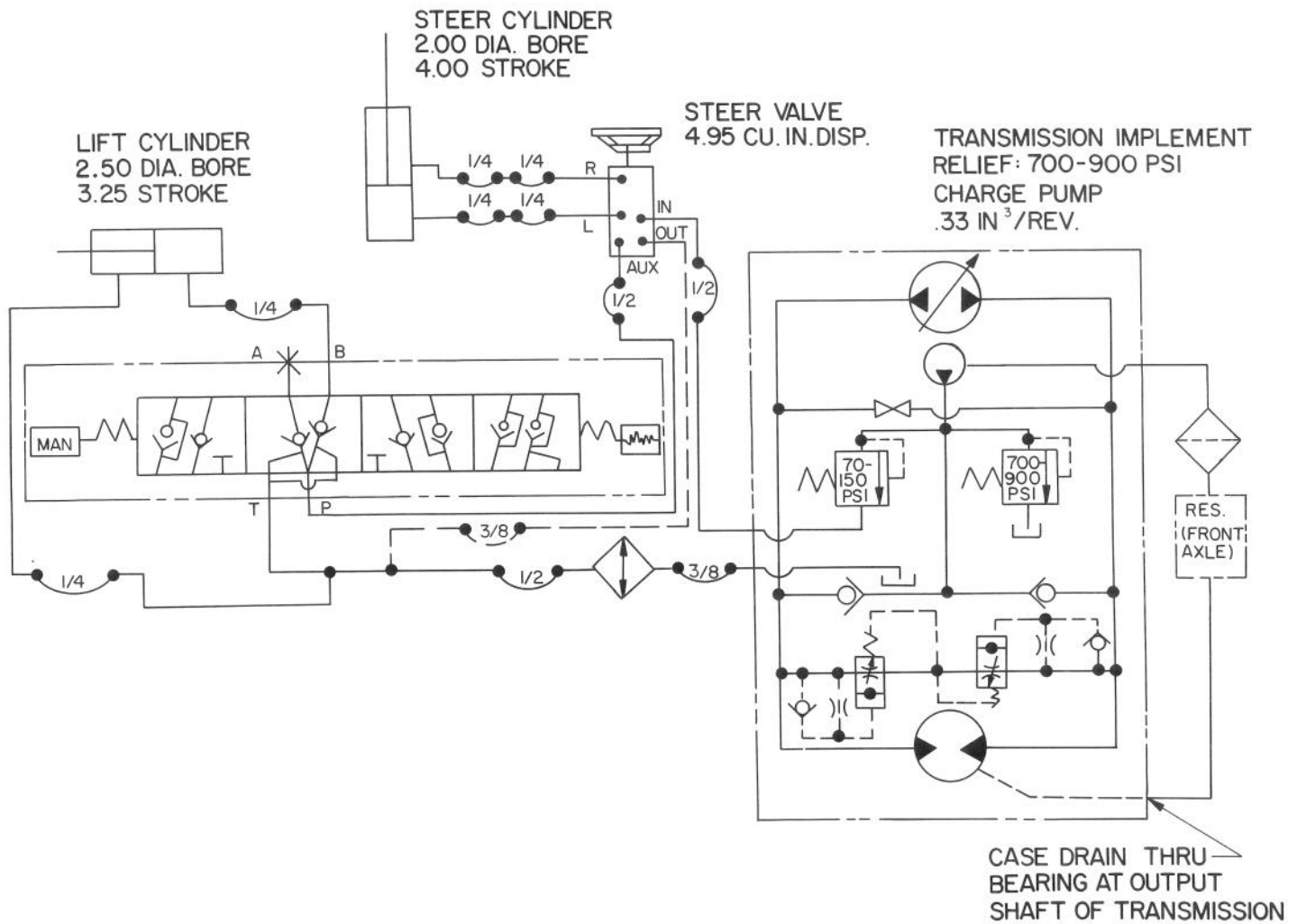
POWER STEERING VALVE ASSEMBLY NO. 63-9250

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
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

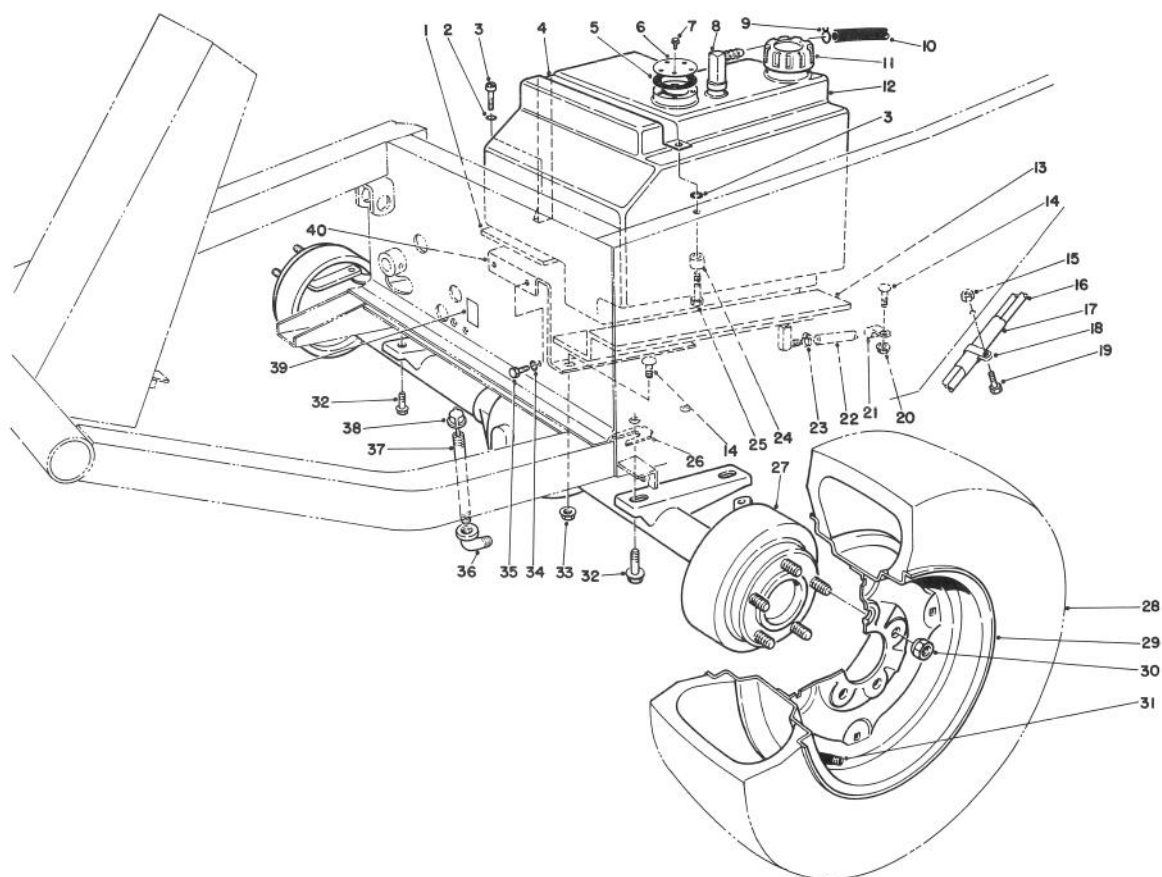
Ref. No.	Part No.	Description	No. Used
29	66-9780	Bushing	1
30		Spacer — Thrust Bearing	1
31		Spacer — Seal	1
32		Ring — Back Up	1
33		Seal — Face	1
34		Bearing — Thrust	1
35		Plate — Drive	1
36	66-9850	Bolt — Special	4
37	66-9860	Upper Cover & Jacket	1
38	66-9870	Plate — Retaining	1
39	66-9880	Washer — 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

HYDRAULIC SCHEMATIC



T-0418A-89



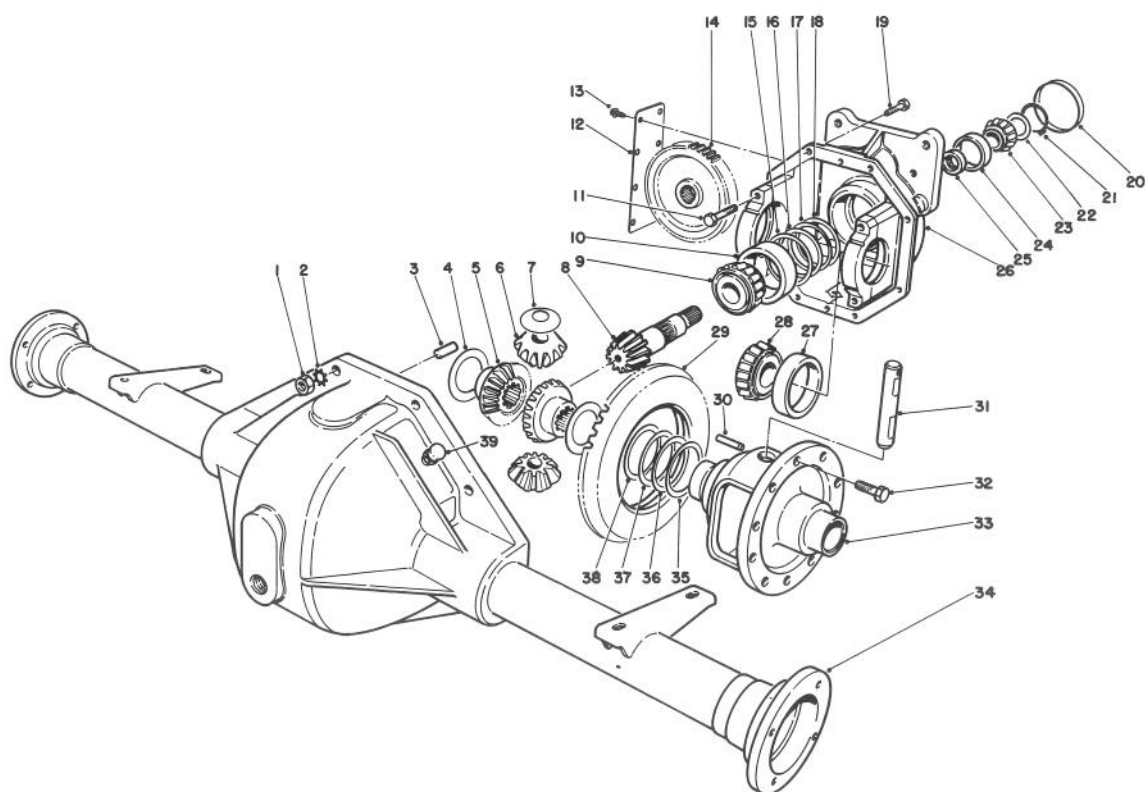
T-0918-89

FRONT AXLE & FUEL TANK ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	21-3600	Foam — Support, Tank	1
2	3253-3	Washer — Lock	2
3	32104-96	Screw — Cap, Hex Hd.	1
4	37-9550	Strap — Tank, Fuel	1
5	62-7650	Gasket — Tank, Fuel	1
6	43-9060	Cover — Tank, Fuel	1
7	32144-53	Screw — Thread Forming	5
8	353-536	Fitting — Tank, Fuel	2
9	2412-6	Clamp	1
10	63-7630	Hose — Vent, Fuel	1
11	55-3574	Cap — Tank, Fuel	1
12	43-9110	Tank — Fuel (Incl. Ref. #8)	1
13	21-3610	Foam — Support, Tank	1
14	3230-2	Bolt — Carriage	3
15	3296-20	Nut — Lock	2
16	68-9710	Hose — Steering Cylinder	2
17	56-7980	Sleeve — Protective	1
18	2412-39	R-Clamp	1
19	322-3	Screw — Cap, Hex Hd.	2
20	32128-20	Nut — Flange	1
21	2412-41	Clamp	1

Ref. No.	Part No.	Description	No. Used
22	67-9070	Hose — Fuel	1
23	2412-108	Clamp	1
24	22-7810	Spacer	1
25	321-6	Screw — Cap, Hex Hd.	1
26	42-6080	Shim — Axle	A/R
27	67-8220	Front Axle Assembly	1
28	231-101	Tire	2
29	217-117	Rim	2
30	23-7270	Nut — Wheel	10
31	232-31	Stem — Valve	2
32	32144-67	Screw — Thread Forming	4
33	32128-20	Nut — Flange	2
34	3253-21	Washer — Lock	2
35	32104-6	Screw — Self Tapping	2
36	2811-9	Elbow — Street	1
37	289-37	Nipple — Pipe	1
38	23-5180	Dipstick	1
39	53-4430	Decal — Oil	1
40	68-9760	Base — Tank, Fuel	1
*	231-90	Tube — Inner (Optional)	2

*Not Illustrated



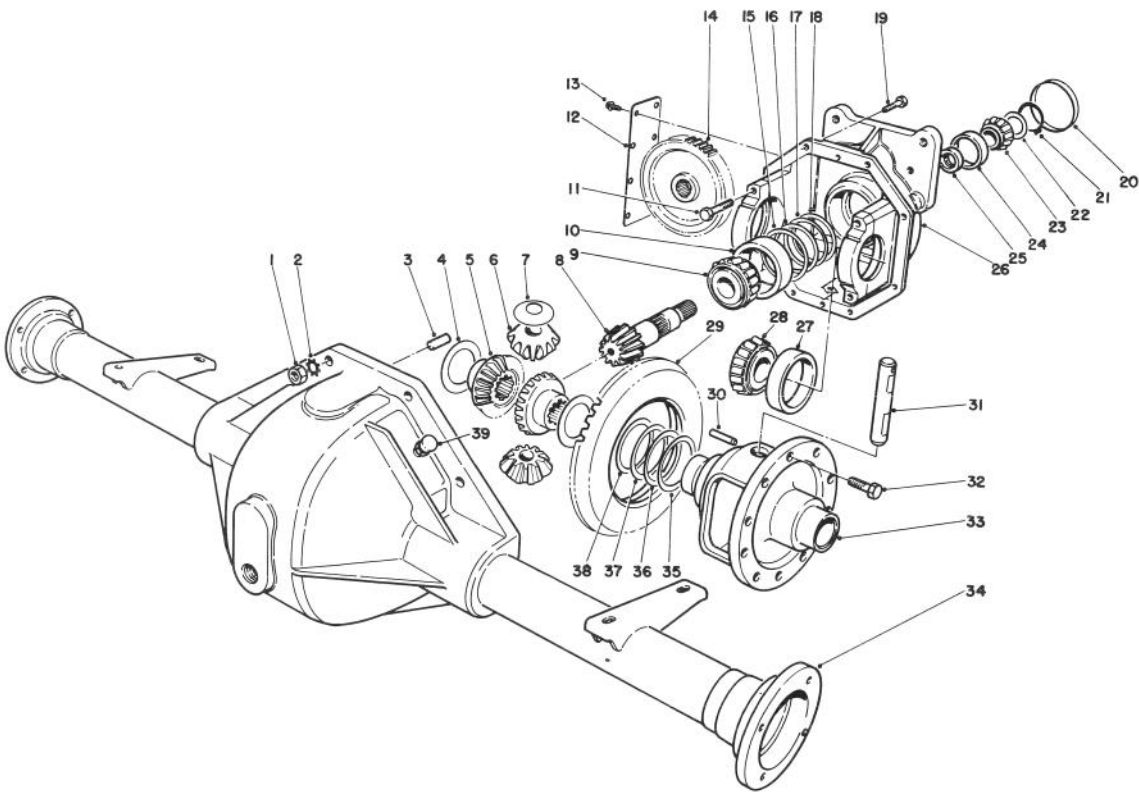
T-0919-89

FRONT AXLE ASSEMBLY NO. 67-8220

Ref. No.	Part No.	Description	No. Used
1	3219-2	Nut	8
2	3255-8	Lockwasher	8
3	21-8270	Dowel Pin	2
4	21-7720	Thrust Washer	2
5	24-8790	Differential Bevel Gear Side	2
6	21-7690	Pinion Gear	2
7	21-7730	Thrust Washer	2
8		Drive Pinion (Incl. Ref. #29)	1
9	43-6760	Tapered Roller Bearing Cone	1
10	43-6750	Tapered Roller Bearing Cup	1
11	324-23	Capscrew	4
12	21-7830	Gear Cover	1
13	12-5450	Thread Forming Screw	8
14	21-8150	Spur — Gear	1
15	43-6710	Differential Adjust. Shim .003	A/R
16	43-6711	Differential Adjust. Shim .005	A/R
17	43-6712	Differential Adjust. Shim .010	A/R
18	43-6713	Differential Adjust. Shim .030	A/R
19	3210-7	Capscrew	8
20	21-7850	Cup Plug	1
21	43-6550	Snap Ring	1
22	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

Ref. No.	Part No.	Description	No. Used
*	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
*	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
23	254-91	Bearing Cone	1
24	254-90	Bearing Cup	1
25	21-8020	Front Pinion Bearing — Spacer	1
26	68-9770	Upper Housing (Incl. Ref. #9)	1
27	254-66	Cup — Tapered Bearing	2
28	254-65	Cone — Tapered Bearing	2
29		Ring Gear	1
30	21-7710	Roll Pin	1
31	21-7700	Pinion Mate Shaft	1
32	21-7770	Drive Gear Screw	5
33	21-7670	Differential Case	1
34	43-6840	Lower Housing	1

*Not Illustrated



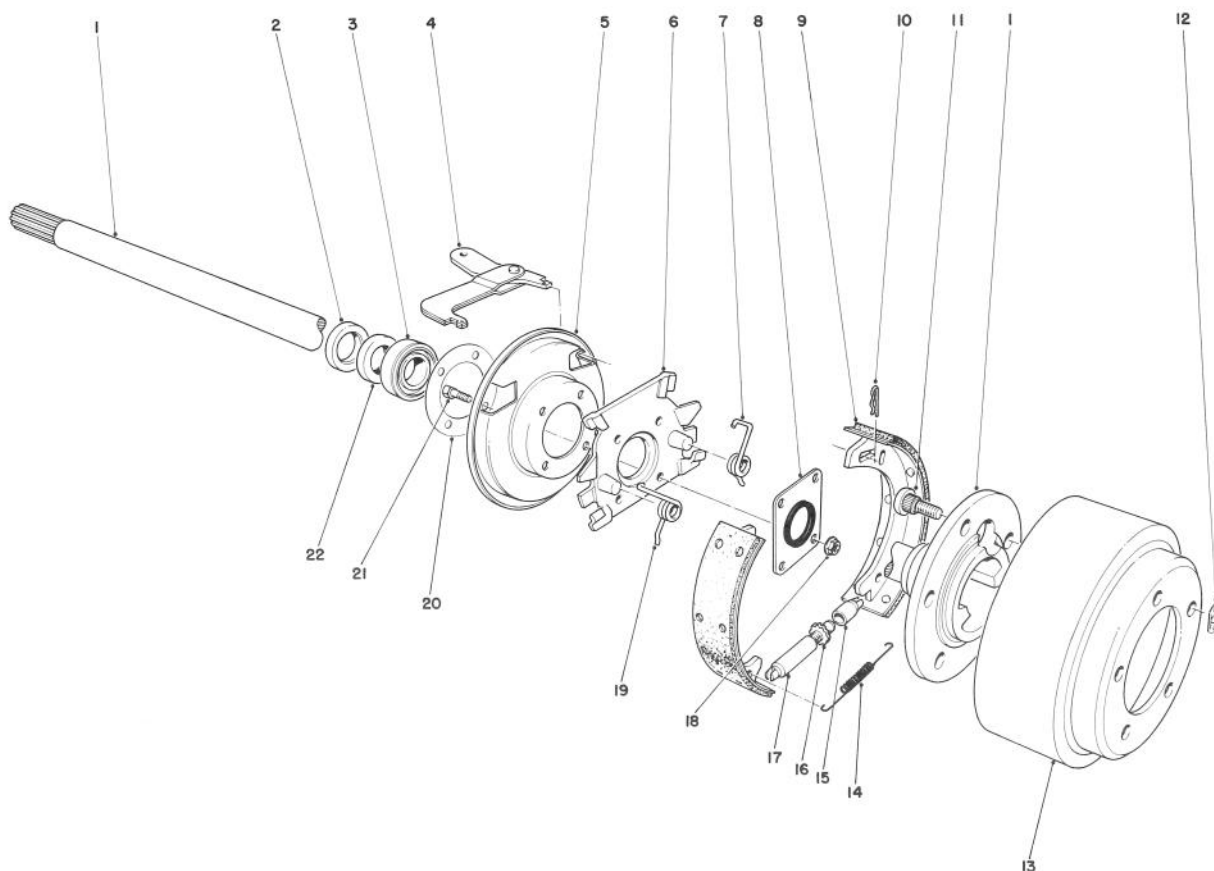
T-0919-89

FRONT AXLE ASSEMBLY NO. 67-8220

Ref. No.	Part No.	Description	No. Used
35	21-8120	Differential Adjust. Shim .030	A/R
36	21-8110	Differential Adjust. Shim .010	A/R
37	21-8100	Differential Adjust. Shim .005	A/R
38	21-8090	Differential Adjust. Shim .003	A/R

Ref. No.	Part No.	Description	No. Used
39	72-9420	Vent Tube Assembly	1
*	43-6510	Gear & Pinion Assembly (Incl. Ref. #8 & 29)	1

*Not Illustrated

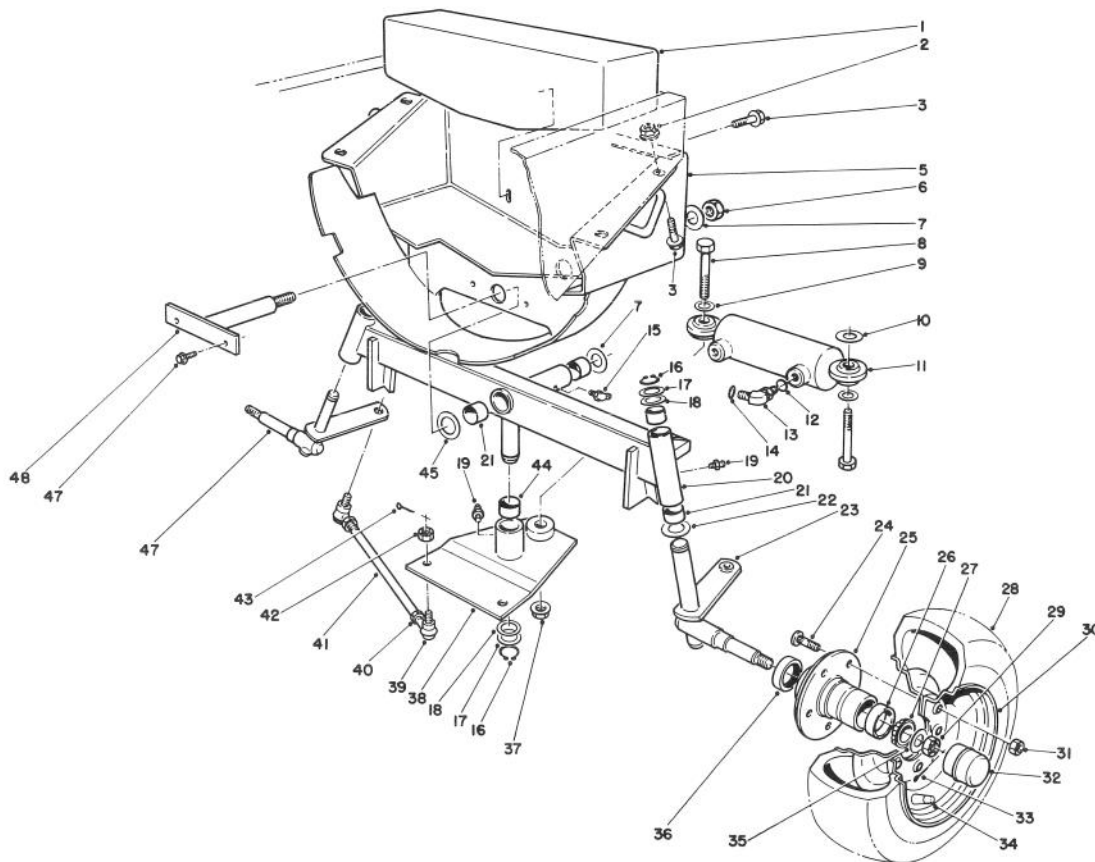


T-0421-89

BRAKE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	28-0650	Flanged Axle Shaft	2
2	21-8330	Oil Seal	2
3	21-8180	Bearing	2
4	24-9180	Strut & Lever Parking Brake	2
5	21-9450	Dust Shield	2
6	43-6810	Torque Spider	2
7	21-9430	Spring Shoe Return R.H.	2
8	28-0670	Oil Seal	2
9	43-2690	Shoe & Lining Assembly	4
10	21-9460	Retainer Parking Brake Lever	4
11	242-34	Axle Flange Stud	10

Ref. No.	Part No.	Description	No. Used
12	21-8360	Clip Retaining	2
13	28-0680	Brake Drum	2
14	21-9440	Spring Adjusting Screw	2
15	21-9390	Socket Adjusting Screw	2
16	21-9370	Adjusting Screw	2
17	21-9380	Pivot Nut	2
18	43-6800	Locknut	8
19	21-9420	Spring Shoe Return L.H.	2
20	21-8320	Gasket Wheel Bearing	2
21	28-0660	Capscrew	8
22	24-8840	Ring Wheel Bearing	2



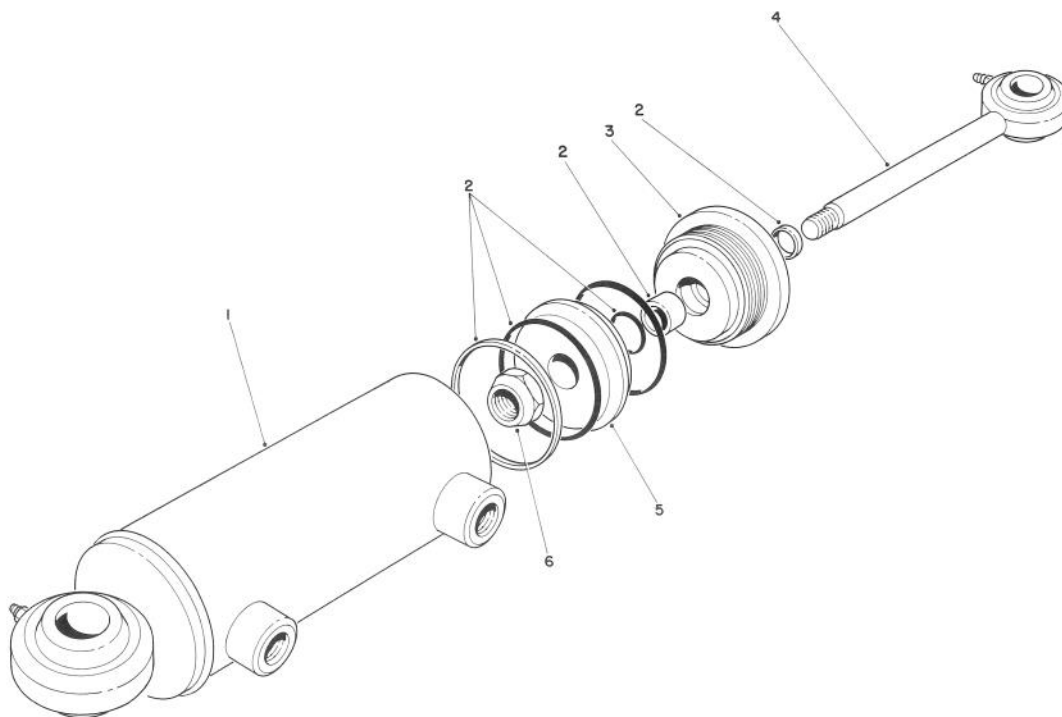
T-0920-89

REAR WHEEL & AXLE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	67-8960	Weight — Axle, Rear	1
2	32128-23	Nut — Lock, Flange	4
3	3234-32	Screw — Hex Hd., Flange	6
5	67-8130	Support — Axle, Rear	1
6	32146-20	Nut — Lock	1
7	71-4540	Washer — Thrust	2
8	328-25	Screw — Cap, Hex Hd.	2
9	67-9410	Washer	2
10	67-7250	Spacer — Ring	1
11	63-9240	Cylinder — Hydraulic	1
12	237-78	O-Ring	1
13	340-54	Fitting — 45°	1
14	237-22	O-Ring	1
15	302-11	Fitting	1
16	32151-36	Ring — Retaining	3
17	5-1226	Washer	A/R
18	10-8110	Washer	3
19	302-5	Fitting	3
20	67-9160	Axle — Rear (Incl. Ref. #21)	1
21	67-1750	Bushing — Axle	6
22	256-121	Bushing — Thrust	2
23	63-9170	Spindle Assy. — L.H.	1
24	10-6830	Stud — Drive	10
25	21-2820	Hub — Wheel (Incl. Ref. #24 & 26)	2
26	254-72	Cup — Bearing	4
27	254-94	Cone — Bearing	4

Ref. No.	Part No.	Description	No. Used
28	231-105	Tire	2
29	32136-5	Nut — Slotted	2
30	217-106	Wheel	2
31	242-50	Nut — Wheel	10
32	241-119	Cap — Dust	2
33	3272-13	Pin — Cotter	2
34	232-31	Stem — Valve w/Cap	2
35	3256-28	Washer	2
36	253-129	Closure	2
37	32128-45	Nut — Lock	2
38	63-9220	Pivot — Steering — (Incl. Ref. #44)	1
39	21-0140	Socket Assy. R.H. (Incl. Ref. #42)	2
*	21-0150	Socket Assy. — L.H. (Incl. Ref. #42)	2
40	3220-5	Nut — Jam, R.H. Thread	2
*	3220-12	Nut — Jam, L.H. Thread	2
41	21-2000	Rod — Tie, Assembly	2
42	32136-4	Nut — Slotted	4
43	3272-6	Pin — Cotter	4
44	256-242	Bushing	2
45	56-2460	Washer	A/R
46	63-9180	Spindle Assy. — R.H.	1
47	3234-14	Screw — Self Tapping	2
48	67-8170	Pin — Axle, Rear	1

*Not Illustrated

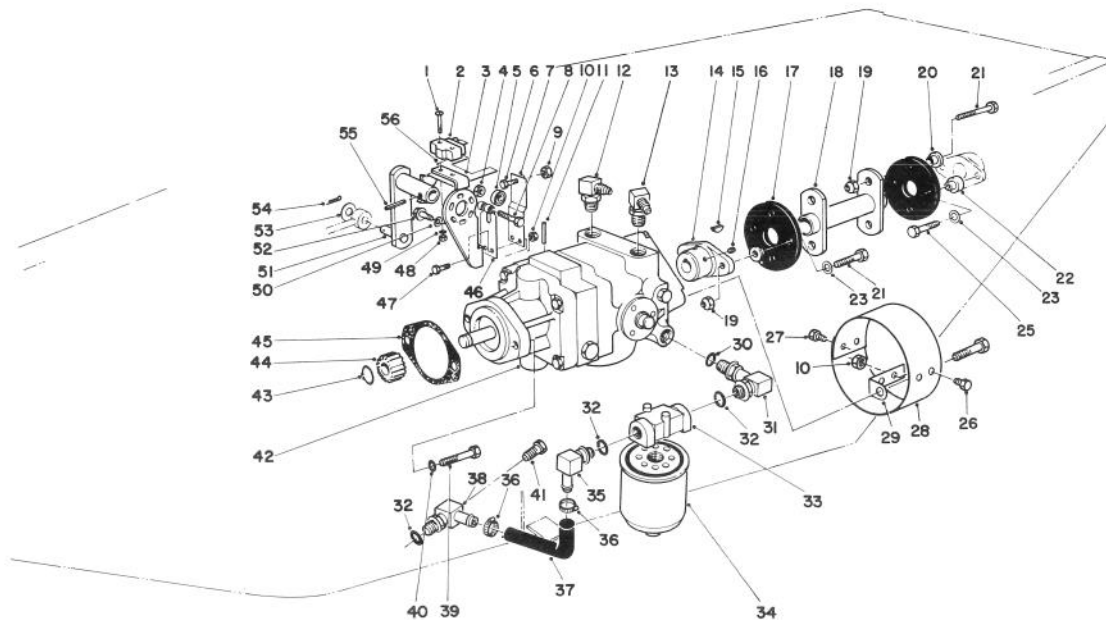


T-0423-89

HYDRAULIC STEERING CYLINDER ASSEMBLY NO. 63-9240

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

Ref. No.	Part No.	Description	No. Used
4	66-1910	Piston Rod Assembly	1
5	66-1940	Piston	1
6	66-1930	Locknut	1

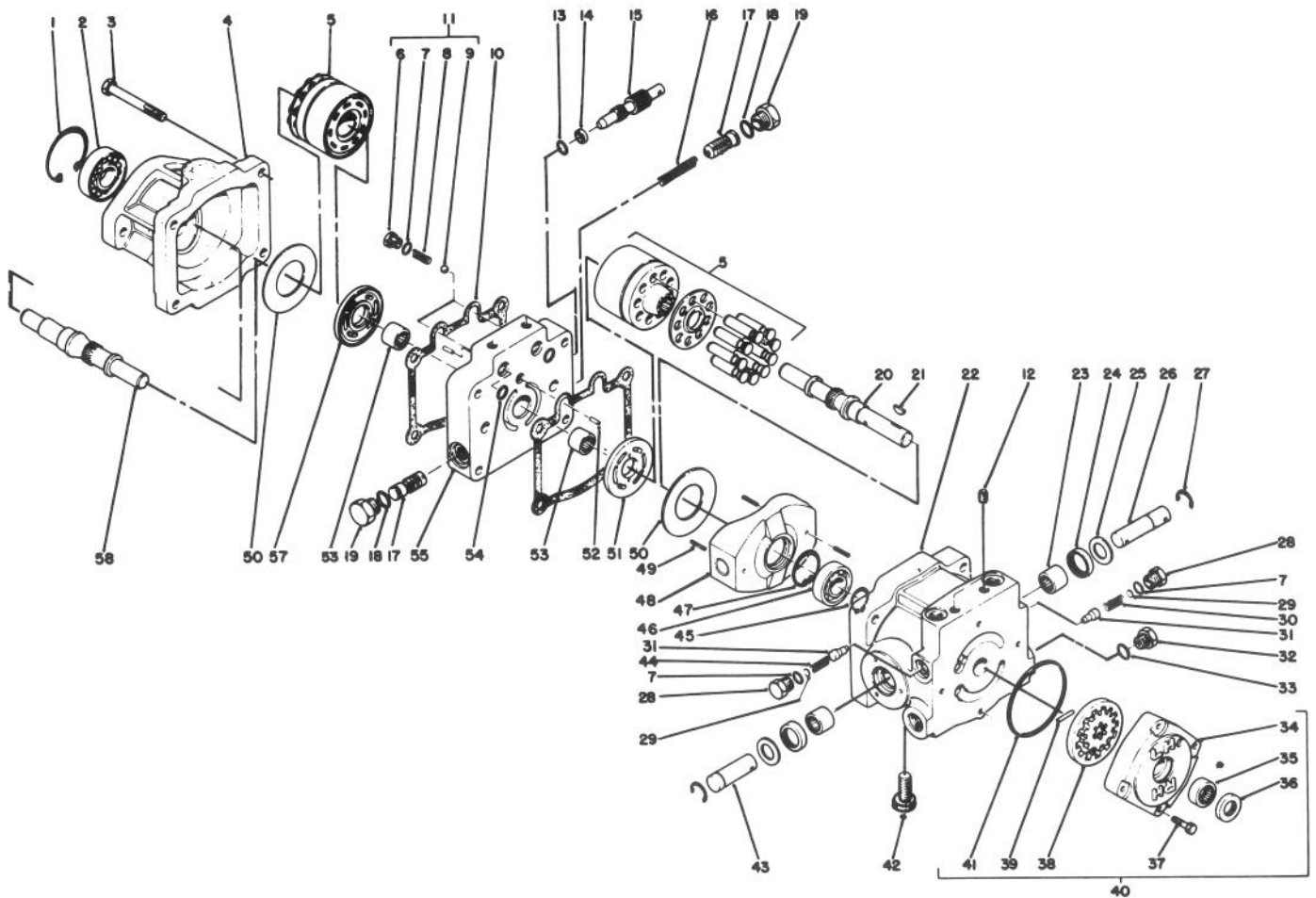


T-0424-89

HYDROSTATIC TRANSMISSION

Ref. No.	Part No.	Description	No. Used
1	3249-11	Round Hd. Machine Screw	2
2	29-6160	Micro Switch	1
3	29-6120	Pump Plate	1
4	3296-29	Locknut	1
5	251-259	Ball Bearing	1
6	3210-7	Capscrew	1
7	29-6170	Extended Leaf Spring	1
8	322-17	Capscrew	1
9	3219-2	Hex Nut	1
10	3296-42	Locknut	6
11	32121-6	Roll Pin	1
12	340-77	Elbow	1
13	340-99	Elbow	1
14	33-4380	Pump Hub	1
15	3257-32	Woodruff Key	1
16	3241-5	Square Hd. Set Screw	2
17	44-2230	Rubber Coupling	2
18	46-6390	Drive Coupling	1
19	32152-1	Locknut	8
20	27-6600	Spacer Rubber Coupling	6
21	322-6	Capscrew	6
22	27-6590	Spacer Rubber Coupling	2
23	3256-3	Washer	4
25	322-8	Capscrew	2
26	321-2	Capscrew	2
27	321-4	Hex Hd. Capscrew	2
28	54-9300	Cover	1
29	54-9290	Bracket	2

Ref. No.	Part No.	Description	No. Used
30	237-80	O-Ring	1
31	68-8660	Elbow	1
32	237-81	O-Ring	3
33	68-8990	Head — Filter	1
34	67-8110	Oil Filter	1
35	353-987	Elbow	1
36	2412-34	Clamp — Hose	2
37	68-9650	Hose — Axle	1
38	70-2620	Elbow — 90°	1
39	323-7	Capscrew	2
40	3253-21	Lockwasher	2
41	353-508	Plug — Drain	1
42	71-4370	Transmission — Inline	1
43	32120-72	Ring — Retaining External	1
44	23-4810	Gear Transmission Output	1
45	41-8760	Gasket Transmission	1
46	29-6150	Leaf Spring	1
47	321-4	Hex Hd. Capscrew	2
48	3217-16	Nut	2
49	3254-9	Lockwasher	2
50	3255-7	Washer — Lock	3
51	28-9570	Pump Lever	1
52	11-9760	Self Tapping Screw	3
53	3256-6	Washer	1
54	3272-10	Cotter Pin	1
55	32121-24	Roll Pin	1
56	46-8810	Stop — Leaf Spring	1

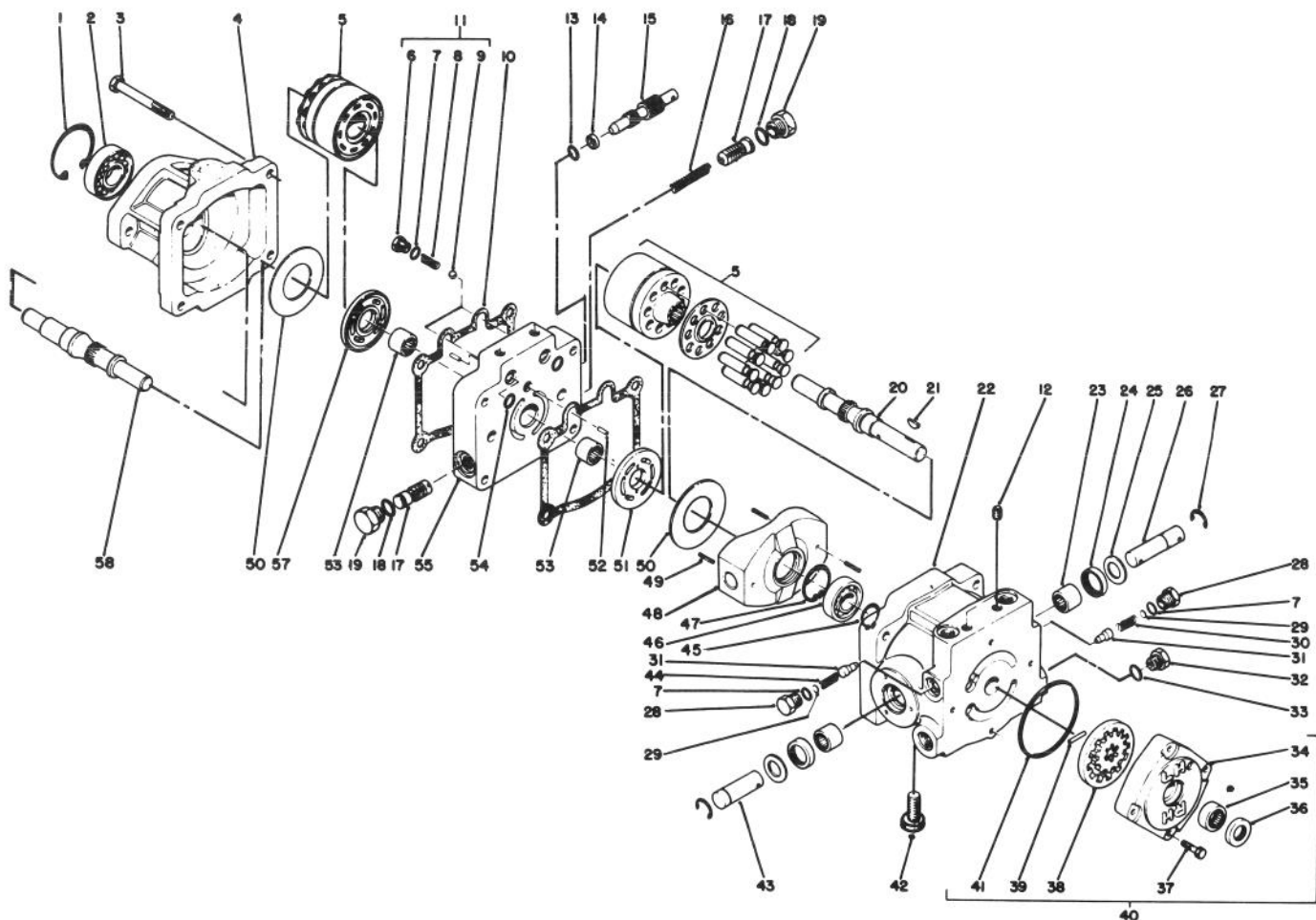


T-0425-89

TRANSMISSION ASSEMBLY (71-4370)

Ref. No.	Part No.	Description	No. Used
1	32120-8	Retaining Ring	1
2	72-3750	Ball Bearing	1
3	323-13	Capscrew	4
4	67-9080	Motor Housing	1
5	48-1800	Cylinder Block Kit	2
6	25-2650	Check Valve Plug	2
7	237-86	O-Ring	4
8	25-2640	Valve Spring	2
9	25-2490	Ball	2
10	67-9100	Gasket	2
11	25-3180	Check Valve Kit (Incl. Ref. #6-9)	2
12	285-17	Pipe Plug	6
13	237-22	O-Ring	1
14	25-2630	Back Up Ring	1
15	25-2620	By Pass Valve	1
16	25-2610	Accel. Valve Spring	1

Ref. No.	Part No.	Description	No. Used
17	25-2410	Accel. Valve Assembly	2
18	237-79	O-Ring	2
19	353-550	Hex. Hd. Plug	2
20	67-8020	Pump Shaft	1
21	3257-32	Woodruff Key	1
22	54-7890	Pump Housing	1
23	252-82	Needle Bearing	2
24	25-3210	Lip Seal	2
25	25-2510	Flat Washer	2
26	25-2580	Trunnion Shaft	1
27	32151-46	Retaining Ring	2
28	25-2460	Hex. Hd. Plug	2
29	25-2470	Shim Pack	2
30	25-2570	Valve Spring	1
31	25-2560	Relief Valve Cone	2
32	353-551	Hex. Hd. Plug	1
33	237-80	O-Ring	1

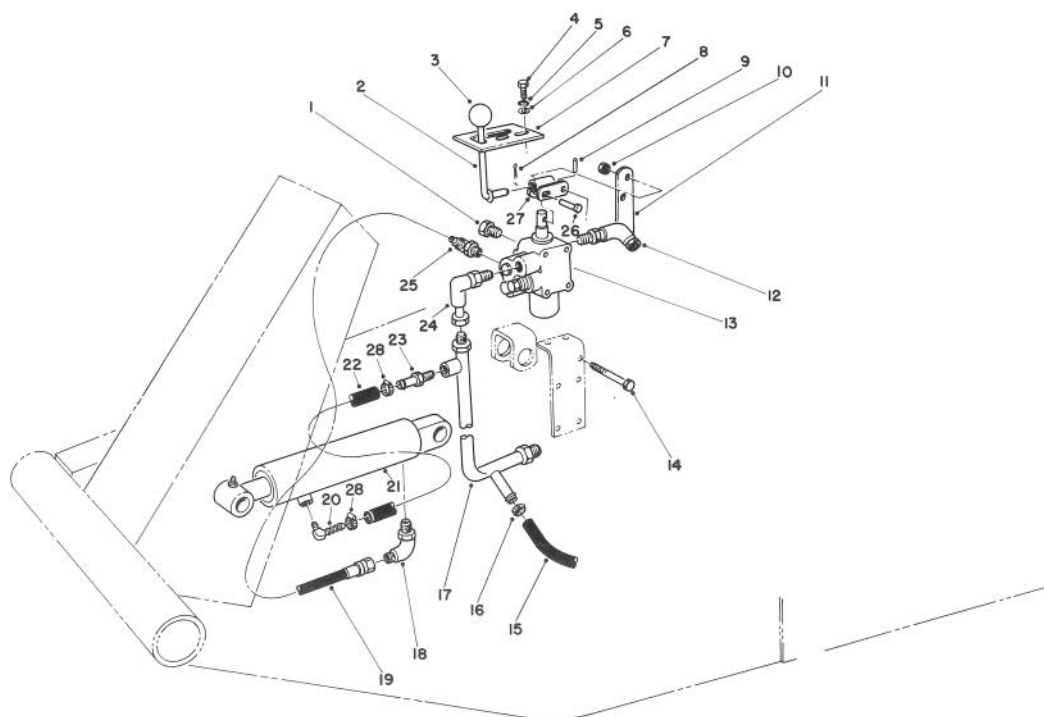


T-0425-89

TRANSMISSION ASSEMBLY (71-4370) (Continued)

Ref. No.	Part No.	Description	No. Used
34	25-2550	Charge Pump Housing	1
35	252-87	Needle Bearing	1
36	253-44	Lip Seal	1
37	322-4	Hex. Hd. Capscrew	4
38	25-2680	Gerotor Assembly	1
39	25-2530	Headless Straight Pin	1
40	25-3190	Charge Pump (Incl. Ref. #34-39 & 41)	1
41	237-95	O-Ring	1
42	67-9090	Filter Union	1
43	25-2500	Trunnion Shaft	1
44	25-2480	Valve Spring	1
45	32120-15	Retaining Ring	1

Ref. No.	Part No.	Description	No. Used
46	251-8	Ball Bearing	1
47	32120-11	Retaining Ring	1
48	25-2450	Variable Swashplate	1
49	32121-91	Coil Spring Pin	3
50	25-2380	Thrust Plate	2
51	25-2440	Pump Valve Plate	1
52	25-2430	Dowel Pin	2
53	46-8400	Needle Bearing	2
54	62-4290	O-Ring	2
55	25-2420	Center Section	1
57	25-2390	Motor Valve Plate	1
58	46-8410	Motor Shaft	1

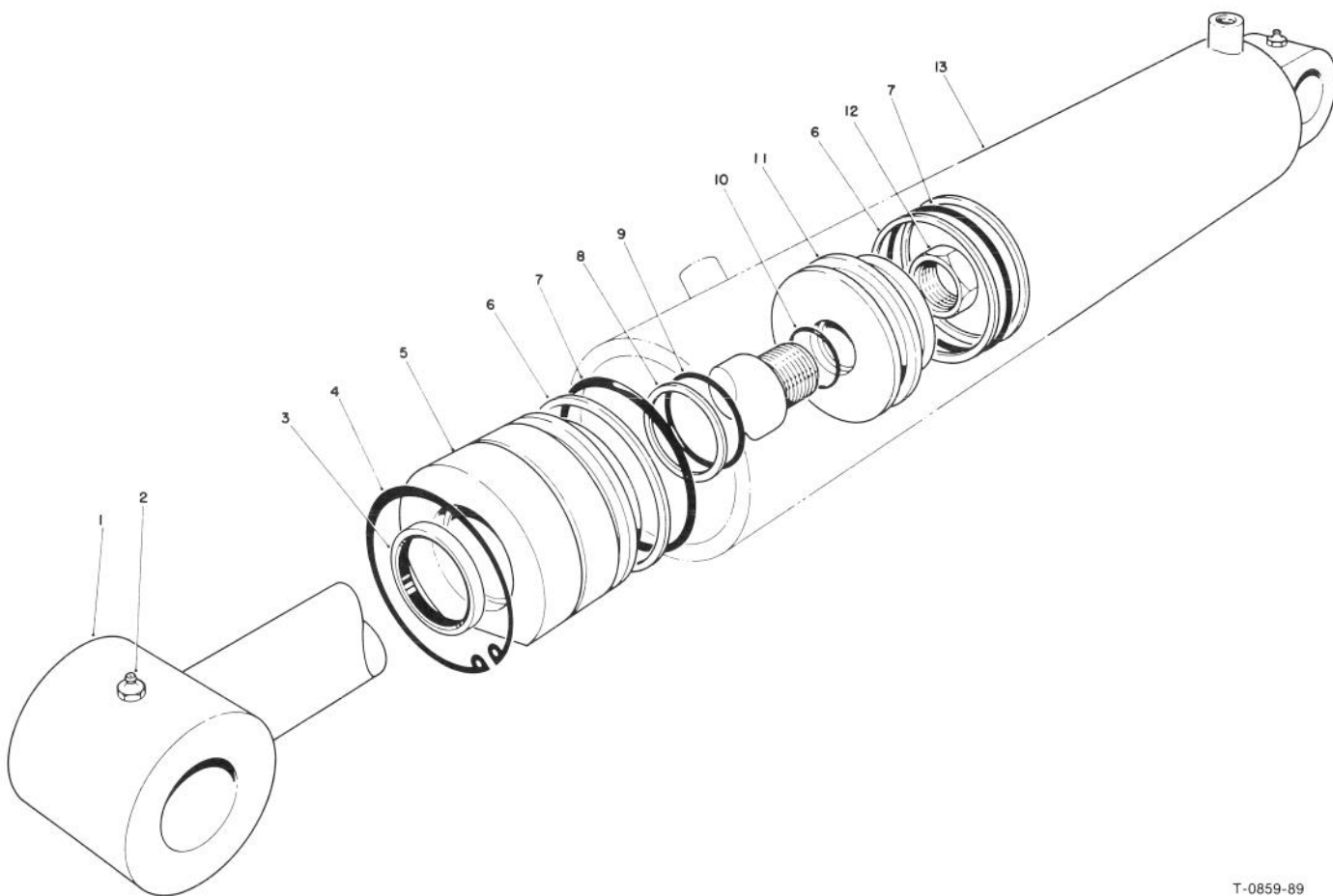


T-0426-89

VALVE & CYLINDER ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	353-512	Plug	1	16	2412-36	Clamp — Hose	3
2	21-8620	Lever — Valve	1	17	63-9260	Manifold — Valve	1
3	233-21	Knob	1	18	340-112	Elbow — 90°	1
4	321-4	Hex Hd. Capscrew	2	19	71-3580	Hose — Valve to Cylinder	1
5	3253-3	Lockwasher	2	20	304-75	Fitting — 90° Barb	1
6	3256-22	Washer	2	21	62-4250	Cylinder — Hydraulic	1
7	21-8640	Latch — Valve Lever	1	*	66-1250	Cylinder — Hydraulic (Optional)	1
8	3272-6	Cotter Pin	1	22	65-2970	Line — Gas	1
9	32121-73	Pin — Slotted Spring	1	23	304-73	Fitting — Straight Barb	1
10	3296-42	Locknut	5	24	340-110	Elbow — 90°	1
11	21-9010	Pivot Mount — Valve Lever	1	25	340-97	Fitting — 90°	1
12	340-99	Fitting — 90° Elbow	1	26	283-17	Pin	1
13	43-1710	Valve Assembly	1	27	21-8590	Link — Valve Lever	1
14	321-23	Hex Hd. Capscrew	5	28	2412-108	Clamp — Hose	1
15	63-8990	Hose	1				

*Not Illustrated



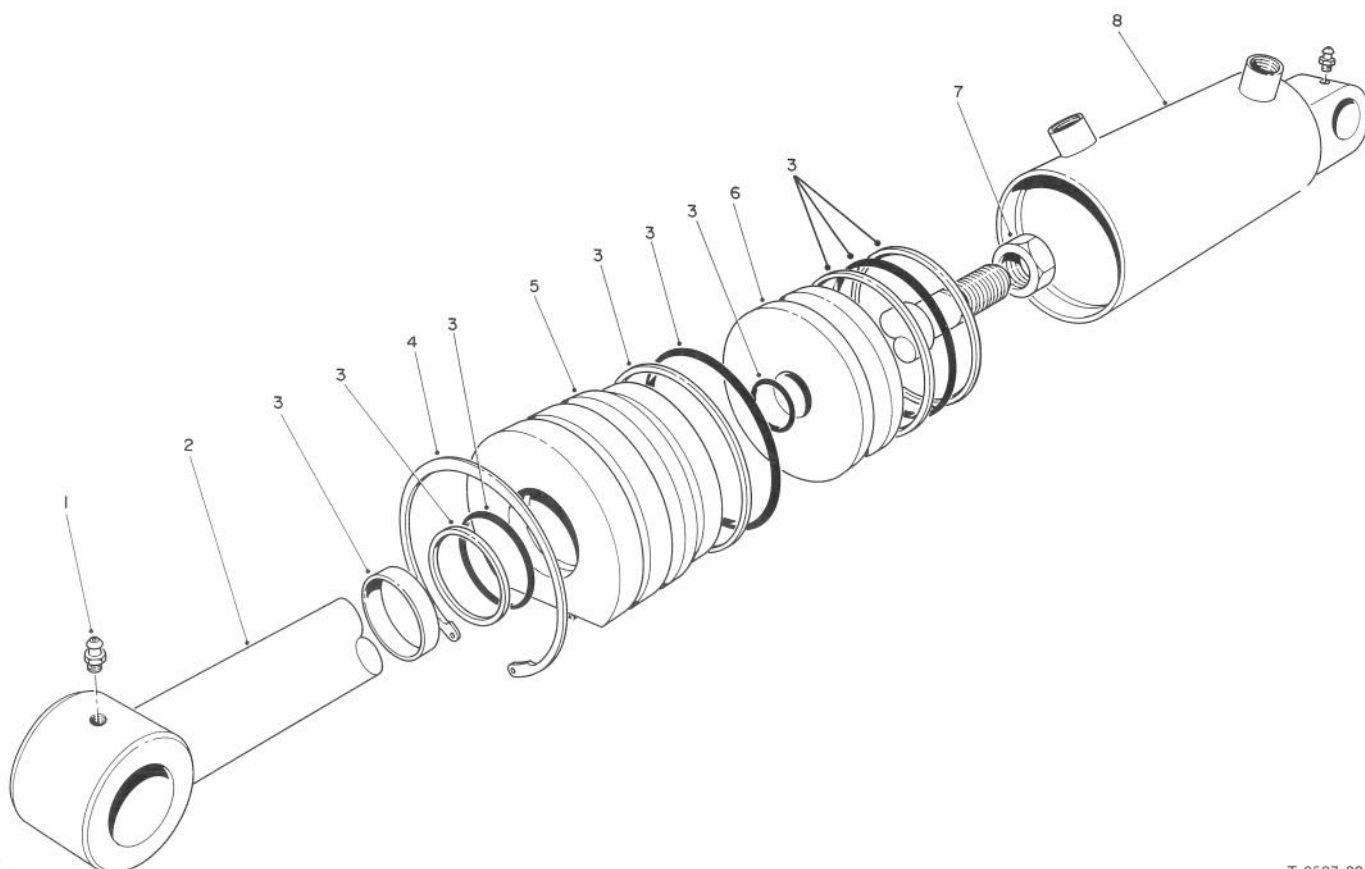
T-0859-89

HYDRAULIC LIFT CYLINDER ASSEMBLY NO. 62-4250

Ref. No.	Part No.	Description	No. Used
1	61-4980	Shaft w/Clevis	1
2	302-22	Grease Fitting	2
3		Dust Seal	1
4	61-4990	Retaining Ring	1
5	60-9780	Head	1
6		Ring — Back-up	3
7		O-Ring	2
8		Ring — Back-up	1

Ref. No.	Part No.	Description	No. Used
9		O-Ring	1
10		O-Ring	1
11	60-9770	Piston	1
12	60-9760	Nut	1
13	61-4970	Barrel	1
*	61-4960	Seal Repair Kit (Incl. Ref. #3, 6-10)	

*Not Illustrated



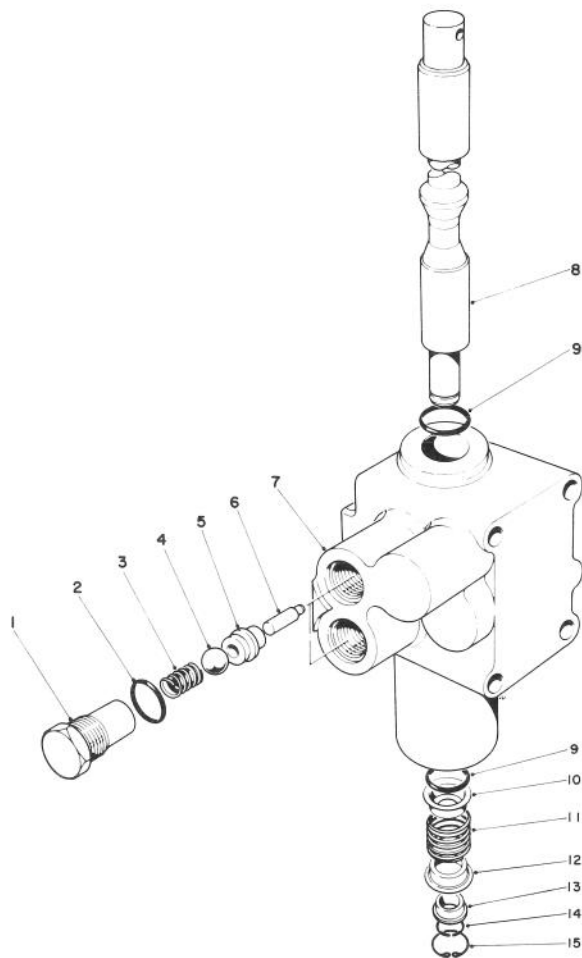
T-0527-89

HYDRAULIC LIFT CYLINDER NO. 66-1250 (Optional)

Ref. No.	Part No.	Description	No. Used
1	302-55	Grease Fitting	2
2	67-5480	Shaft	1
3	67-5500	Repair Kit	1
4	67-5470	Ring — Retaining	1

Ref. No.	Part No.	Description	No. Used
5	67-5460	Head	1
6	67-5450	Piston	1
7	60-9760	Hex Nut	1
8		Barrel	1

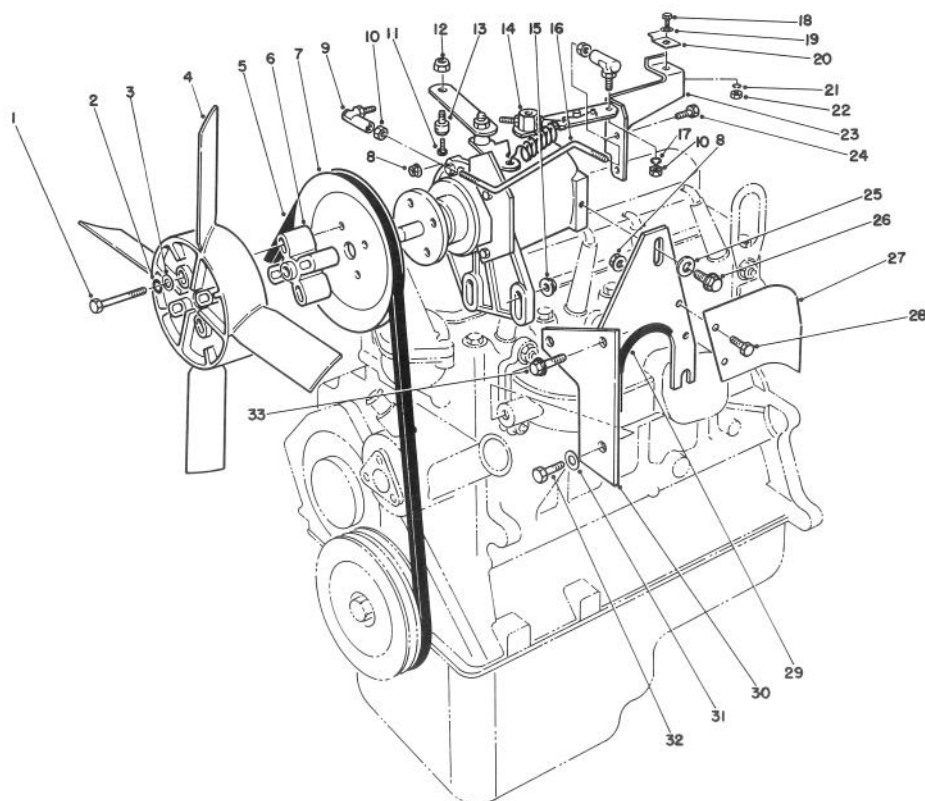
*Not Illustrated



CONTROL VALVE ASSEMBLY NO. 43-1710

[illegible]

Ref. No.	Part No.	Description	No. Used
9	22-8500	O-Ring	2
10	22-8380	Spring Retainer	1
11	22-8410	Spring	1
12	22-8390	Spring Retainer	1
13	22-8400	Spacer Float	1
14	22-8480	Spring Ring Spool	1
15	22-8490	Snap Ring	1



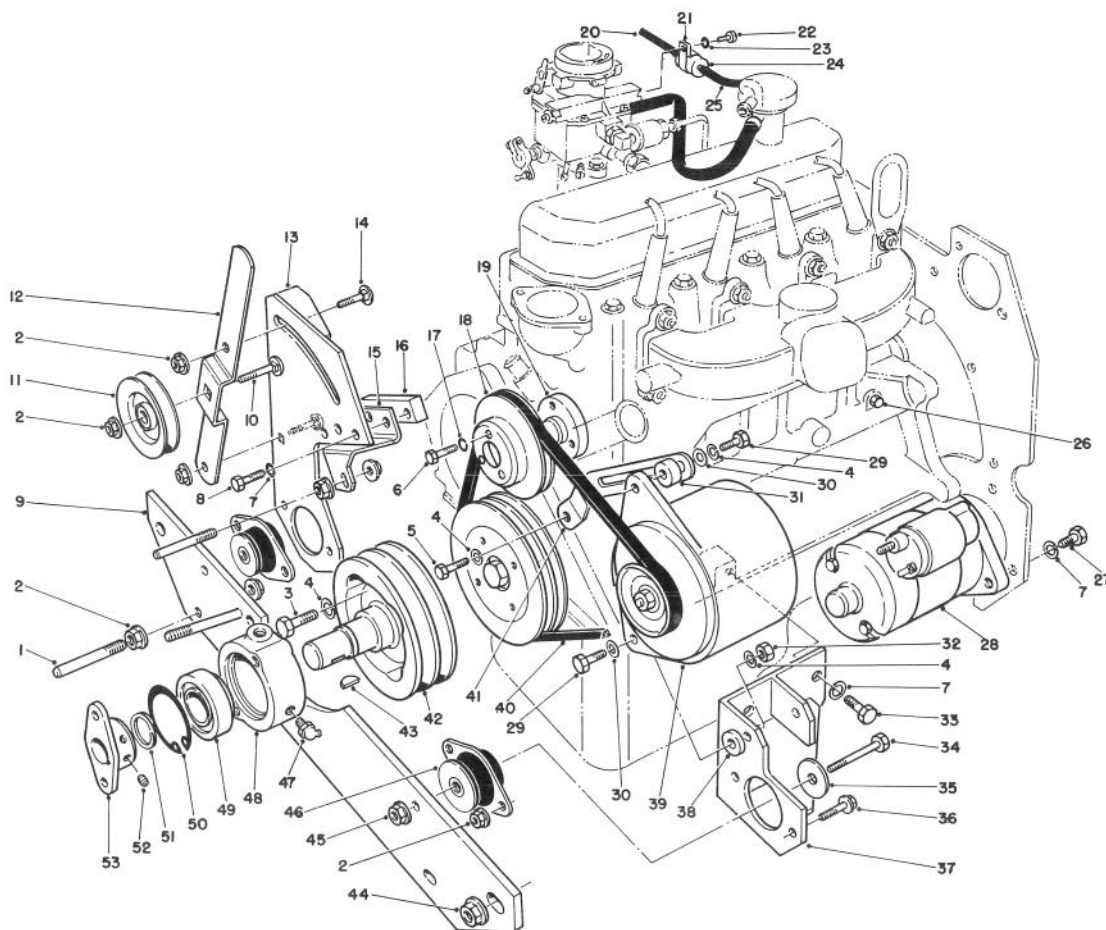
T-0921-89

ENGINE ASSEMBLY-67-8450

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	322-12	Screw — Cap, Hex Hd.	4	20	2412-31	Clamp — Cable	1
2	3253-4	Washer — Lock	4	21	3253-3	Washer — Lock	1
3	3256-2	Washer — Flat	4	22	3217-5	Nut	1
4†	E7JL-8600-AA	Fan	1	23	67-8240	Bracket — Throttle	1
5	67-8510	Belt — Fan	1	24	321-6	Screw — Cap, Hex Hd.	2
6	67-8390	Spacer — Fan	1	25	3256-56	Washer — Flat	1
7	67-8380	Pulley — Fan	1	26	3234-5	Screw — Flange, Lock	1
8	32128-33	Nut — Flange, Lock	4	27	67-8920	Shield — Heat	1
9	21-5640	Joint — Ball	2	28	321-39	Screw — Cap, Hex Hd.	2
10	3219-14	Nut — Hex	3	29	70-2040	Guard — Trim	1
11	25-8640	Screw — Machine	1	30	67-9150	Support — Governor	1
12	3296-20	Nut — Lock	1	31	42-9780	Washer — Flat	1
13	43-3780	Swivel — Cable, Throttle	1	32	48-7710	Screw — Cap, Hex Hd.	1
14	67-8360	Governor	1	33	3234-11	Screw — Flange, Lock	2
15	3240-357	Nut — Flange, Lock	2	*†	AGRF22	Spark Plugs	
16	67-8250	Rod — Throttle	1		or		
17	3253-12	Washer — Lock	1		AGSF-22C	(Motorcraft)	4
18	321-4	Screw — Cap, Hex Hd.	1	*†	FL400A	Engine Oil Filter	
19	3256-22	Washer — Flat	1			(Motorcraft)	1

*Not Illustrated

†Obtain from your local Ford dealer.



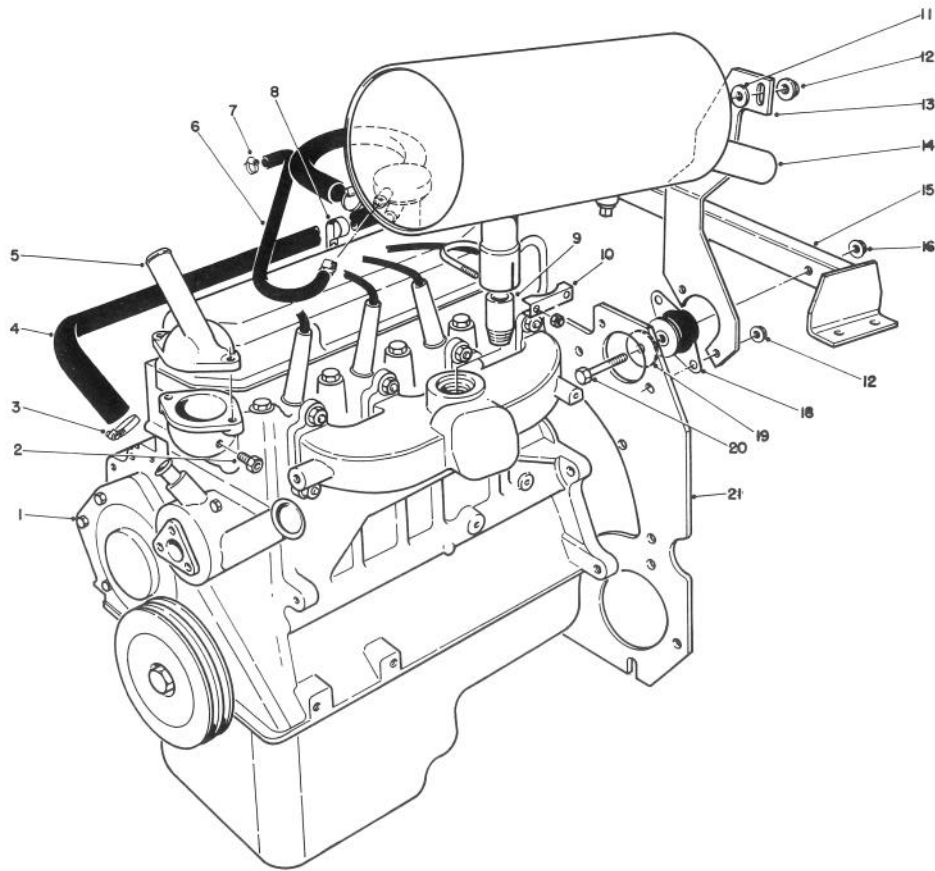
T-0922-89

ENGINE ASSEMBLY-67-8450

Ref. No.	Part No.	Description	No. Used
1	21-1820	Stud — Retainer, Belt	4
2	3290-357	Nut — Flange, Lock	13
3	42-9500	Screw — Metric	4
4	42-9850	Washer — Lock	8
5	48-7710	Screw — Metric	1
6	43-2600	Screw — Metric	3
7	42-9600	Washer — Lock	8
8	48-7800	Screw — Metric	3
9	67-8200	Support — Engine, Front	1
10	3231-28	Bolt — Carriage	1
11	63-8140	Pulley — Idler	1
12	67-8890	Arm — Idler	1
13	67-8310	Mount — Engine, Front R.H.	1
14	3231-22	Bolt — Carriage	2
15	67-8350	Bracket — Guide, Belt	1
16	67-8340	Bar — Spacer	1
17	43-5930	Washer — Lock	3
18†	DIZE-8A528-DA	Pulley — Water Pump	1
19	67-8910	Spacer — Pulley	1
20	70-1920	Hose — Vacuum	1
21†	384007-S	Clamp — Valve	1
22	3250-29	Screw — Pan Hd.	1
23	3256-21	Washer — Flat	1
24†	D23E-9C369-AA	Fuel Separator	1
25	70-1910	Hose — Vacuum Advance	1
26†	353055-57	Plug — Water Drain	1
27	48-9470	Screw — Metric	3

Ref. No.	Part No.	Description	No. Used
28†	D8RZ11002A	Starter	1
29	42-9530	Screw — Metric	3
30	42-9780	Washer — Flat	4
31	67-9010	Spacer — Arm, Alternator	1
32	48-7930	Nut — Metric	2
33	48-7780	Screw — Metric	2
34	324-12	Screw — Cap, Hex. Hd.	2
35	53-9480	Washer — Snubber	2
36	3234-11	Screw — Flange, Lock	4
37	67-8260	Mount — Engine, Front L.H.	1
38	67-8900	Spacer — Alternator	1
39†	86AB10300AB	Alternator	1
40	67-8520	Belt — Alternator	1
41†	898F-10145-AB	Arm — Adjust, Alternator	1
42	67-8460	Pulley — Engine	1
43	3257-33	Key — Woodruff	1
44	32128-23	Nut — Flange, Lock	2
45	32128-37	Nut — Flange, Lock	2
46	53-9680	Mount — Engine	2
47	302-10	Fitting — Grease	1
48	43-3720	Collar — Bearing	1
49	251-252	Bearing	1
50	32120-22	Ring — Retaining, Internal	1
51	32120-69	Ring — Retaining, External	1
52	3245-1	Screw — Set	2
53	27-1960	Hub — Engine	1
*†	FG795A	Fuel Filter (Motorcraft)	1

†Obtain from your local Ford dealer.

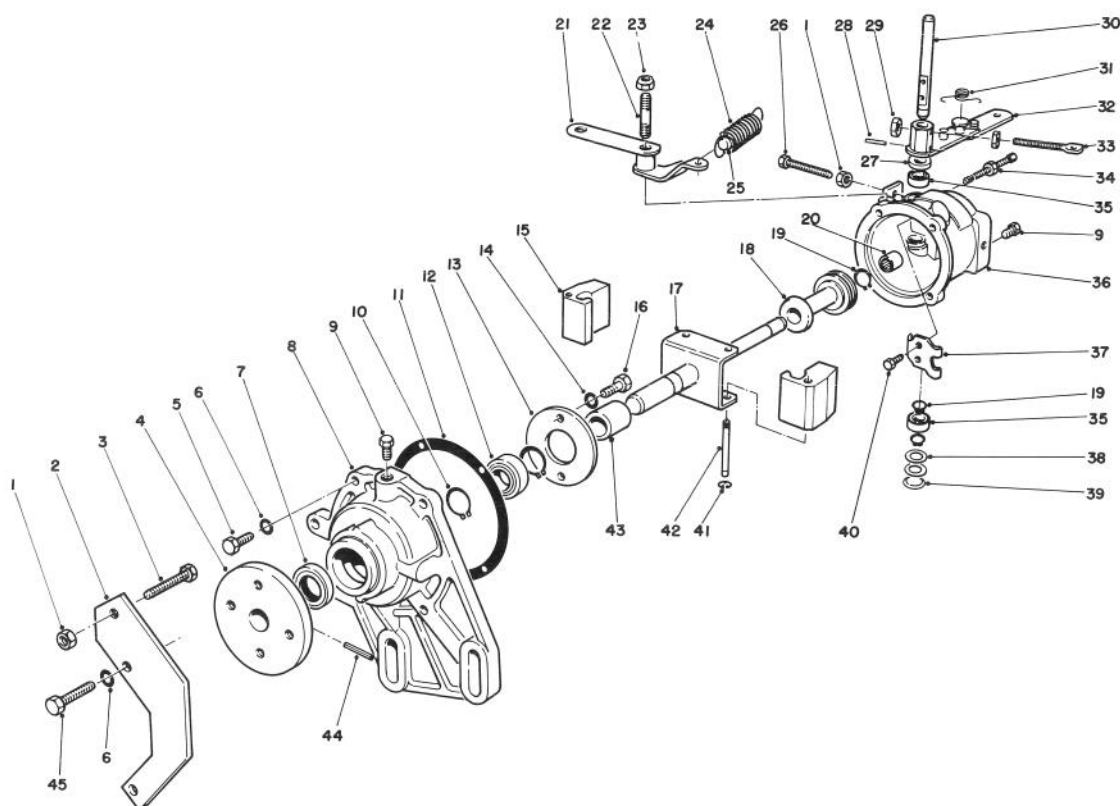


T-0923-89

ENGINE ASSEMBLY-67-8450

Ref. No.	Part No.	Description	No. Used
1	67-8450	Engine	1
2	70-1690	Adapter — Gauge, Temp.	1
3	2412-119	Clamp — Hose	2
4	70-1670	Hose — Heater	1
5	67-8940	Connector — Outlet, Water	1
6	67-8950	Hose — Breather	1
7	2412-108	Clamp	2
8	2412-39	Clamp — R	1
9	67-9130	Pipe — Muffler	1
10	2112-6	Clamp — Muffler	1
11	5-0652	Spacer	1

Ref. No.	Part No.	Description	No. Used
11	5-0652	Spacer	1
12	3290-357	Nut — Flange, Lock	5
13	67-8420	Bracket — Muffler	1
14	67-9120	Muffler	1
15	67-8480	Support — Engine, Rear	1
16	32128-37	Nut — Flange, Lock	2
18	53-9680	Mount — Engine	2
19	53-9480	Washer — Snubber	2
20	324-11	Screw — Cap, Hex Hd.	2
21	67-8440	Plate — Support, Engine	1

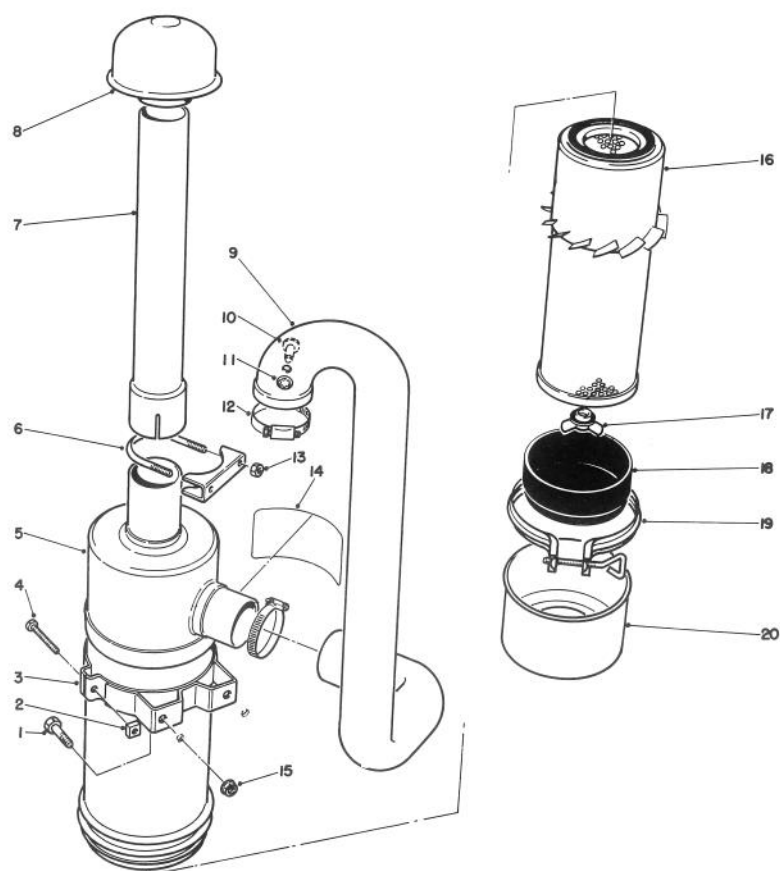


T-0933

GOVERNOR ASSEMBLY NO. 67-8360

Ref. No.	Part No.	Description	No. Used
1	3219-1	Nut	2
2	70-2160	Bracket — Speed Stop	1
3	72-5920	Screw	1
4	67-8370	Hub	1
5	18-5630	Screw	2
6	18-5630	Washer — Lock	4
7	18-5580	Seal — Oil, Front	1
8	70-2060	Cover — Governor	1
9	285-17	Plug — Pipe	2
10	18-5640	Ring — Retaining	2
11	18-5790	Gasket	1
12	70-2140	Bearing — Front	1
13	70-2130	Clamp — Bearing to Cover	1
14	18-5770	Washer — Lock	2
15	70-2150	Flyweight	2
16	329-3	Screw	2
17	70-2110	Main Shaft & Yoke	1
18	70-2100	Thrust Sleeve & Bearing Assy.	1
19	18-5540	Ring — Retaining	3
20	72-5940	Bearing — Needle	1
21	70-2070	Lever — Speed Adjusting	1
22	70-2090	Stud — Pivot, Lever	1
23	3296-5	Nut — Lock	1

Ref. No.	Part No.	Description	No. Used
24	72-5860	Spring — Governor	1
25	72-5850	Pin — Force Idle	1
26	72-5930	Screw	1
27	71-4780	Seal — Oil, Rocker Shaft	1
28	18-5750	Pin	1
29	3219-2	Nut	2
30	72-5890	Shaft — Rocker	1
31	18-5410	Spring — Torsion, Throttle Lever	1
32	72-5880	Throttle Lever Assy.	1
33	72-5870	Eyebolt	1
34	72-5910	Bumper Screw Assy.	1
35	18-5450	Bearing	2
36	70-2080	Body	1
37	18-5520	Lever — Rocker	1
38	18-5440	Spacer	2
39	18-5430	Plug — Expansion	1
40	18-5530	Screw & Lockwasher	2
41	18-5670	Retainer — Pin, Pivot	2
42	18-5660	Pin — Pivot, Flyweight	2
43	70-2120	Spacer	1
44	32121-51	Pin — Hub To Shaft	1
45	71-4770	Screw	2

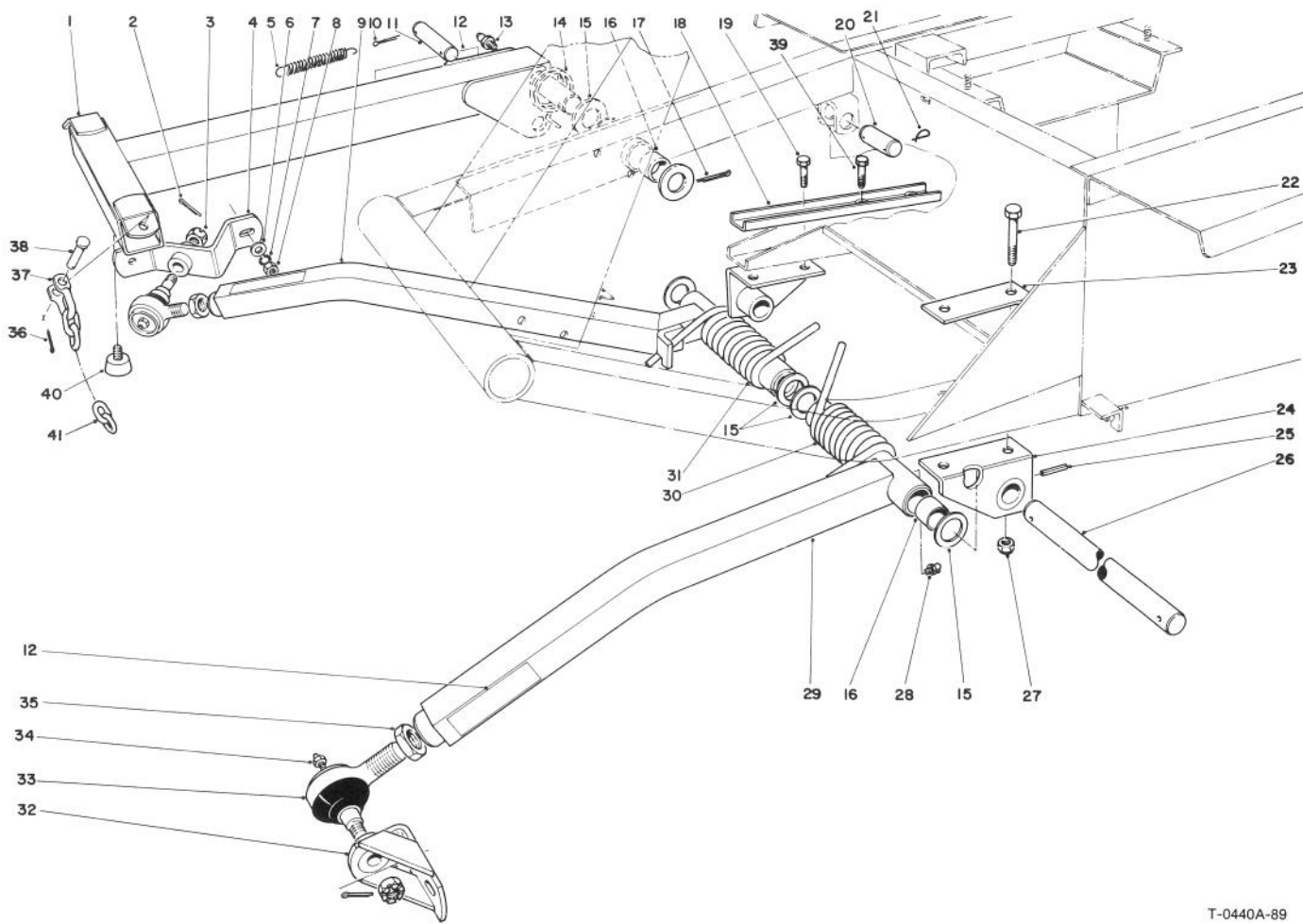


T-0934-89

AIR CLEANER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	322-3	Capscrew	4
2	32107-11	Nut	2
3	27-7170	Band Assy. (Incl. Ref. #2 & 4)	2
4	3258-19	Round Hd. Machine Screw	2
5	27-7100	Air Cleaner Assembly (Incl. Ref. #14-20)	1
6	20-4840	Muffler Clamp (Incl. Ref. #13)	1
7	43-3810	Tube Air Cleaner	1
8	27-7180	Cap Assembly — Air Inlet	1
9	67-8650	Hose — Air Cleaner	1
10	70-1800	Nipple	1

Ref. No.	Part No.	Description	No. Used
11	249-45	Retainer	1
12	2412-42	Hose Clamp	2
13	3217-6	Nut	2
14	27-7160	Decal — Instructions	1
15	32128-20	Flange Nut	4
16	27-7110	Element Assembly	1
17	27-7120	Nut & Gasket Assembly	1
18	27-7140	Skirt — Baffle	1
19	27-7130	Clamp Assembly	1
20	27-7150	Cap Assembly	1

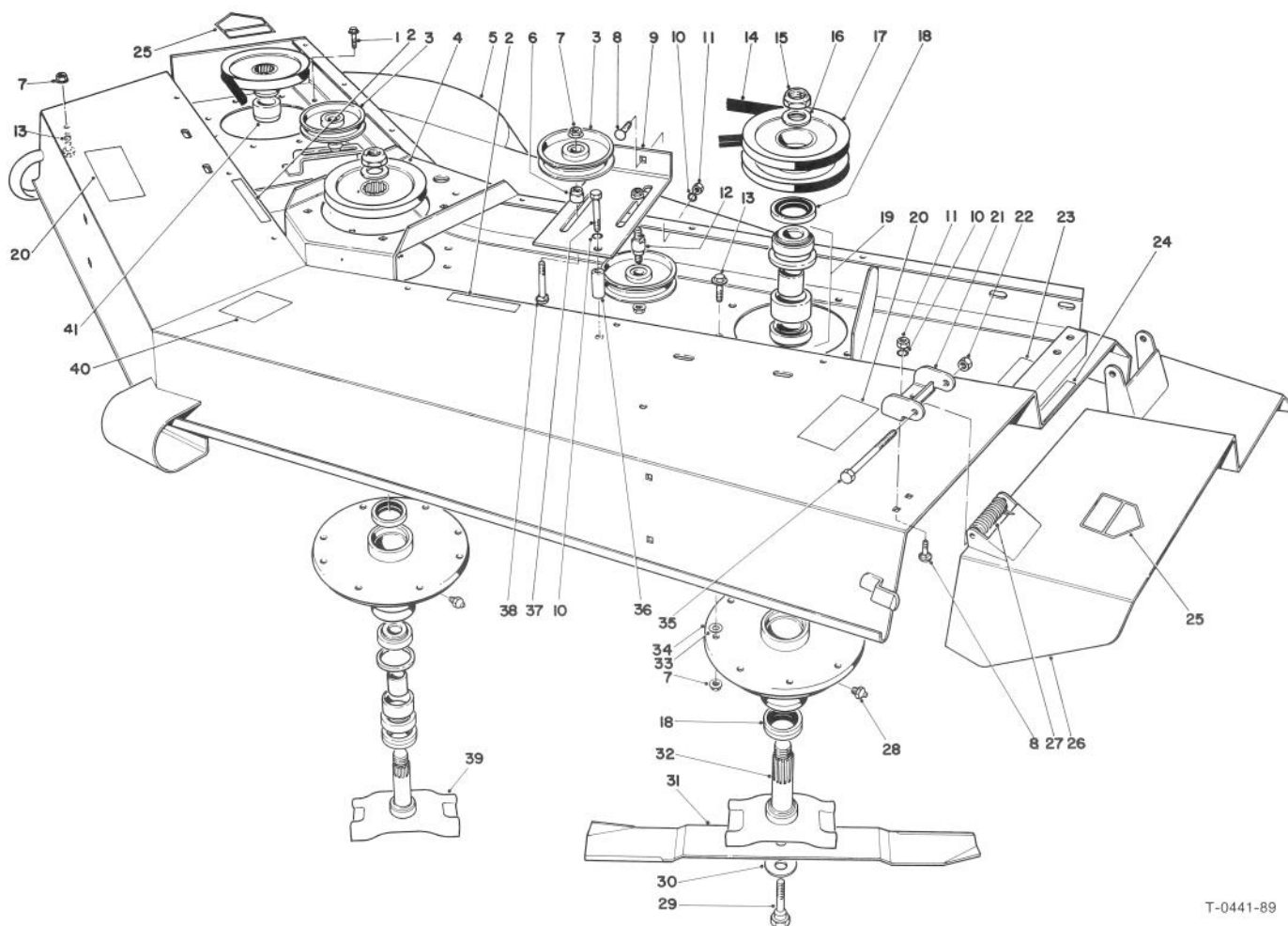


T-0440A-89

PUSH ARM ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	66-6370	Lift Arm	1
2	3272-11	Cotter Pin	2
3	32136-2	Nut	2
4	21-3020	Ball Joint Mount R.H.	1
5	21-1830	Spring Tension	1
6	3256-25	Flat Washer	1
7	3253-6	Lockwasher	2
8	3217-8	Full Nut	2
9	66-7150	Push Arm R.H. (Incl. Ref. #16 & 28)	1
10	3272-24	Cotter Pin	1
11	24-9510	Pin	1
12	61-3610	Warning Decal	3
13	302-5	Grease Fitting	1
14	46-8840	Spring Lift Arm	1
15	5-1754	Washer	6
16	256-126	Bushing	6
17	3272-33	Cotter Pin	1
18	23-1950	Support Reinforcement	1
19	324-4	Capscrew	2
20	3-7292	Pin	1
21	5-3126	Spring Pin	3

Ref. No.	Part No.	Description	No. Used
22	324-12	Capscrew	2
23	21-3750	Support Plate	1
24	21-2860	Push Arm Bracket	2
25	32121-84	Roll Pin	2
26	21-2990	Shaft Pivot	1
27	32152-9	Nut	4
28	302-33	Grease Fitting	2
29	21-2960	Push Arm L.H. (Incl. Ref. #16 & 28)	1
30	21-2900	Spring — Torsion L.H.	1
31	21-2890	Spring — Torsion R.H.	1
32	21-3050	Ball Joint Mount L.H.	1
33	21-0160	Ball Joint Assembly	2
34	302-2	Grease Fitting	2
35	21-3000	Jam Nut	2
36	3272-10	Cotter Pin	3
37	5-2942	Shackle	3
38	283-10	Pin	3
39	324-9	Hex Hd. Capscrew	1
40	67-9800	Bumper	1
41	3-1365	Chain — Lift	3



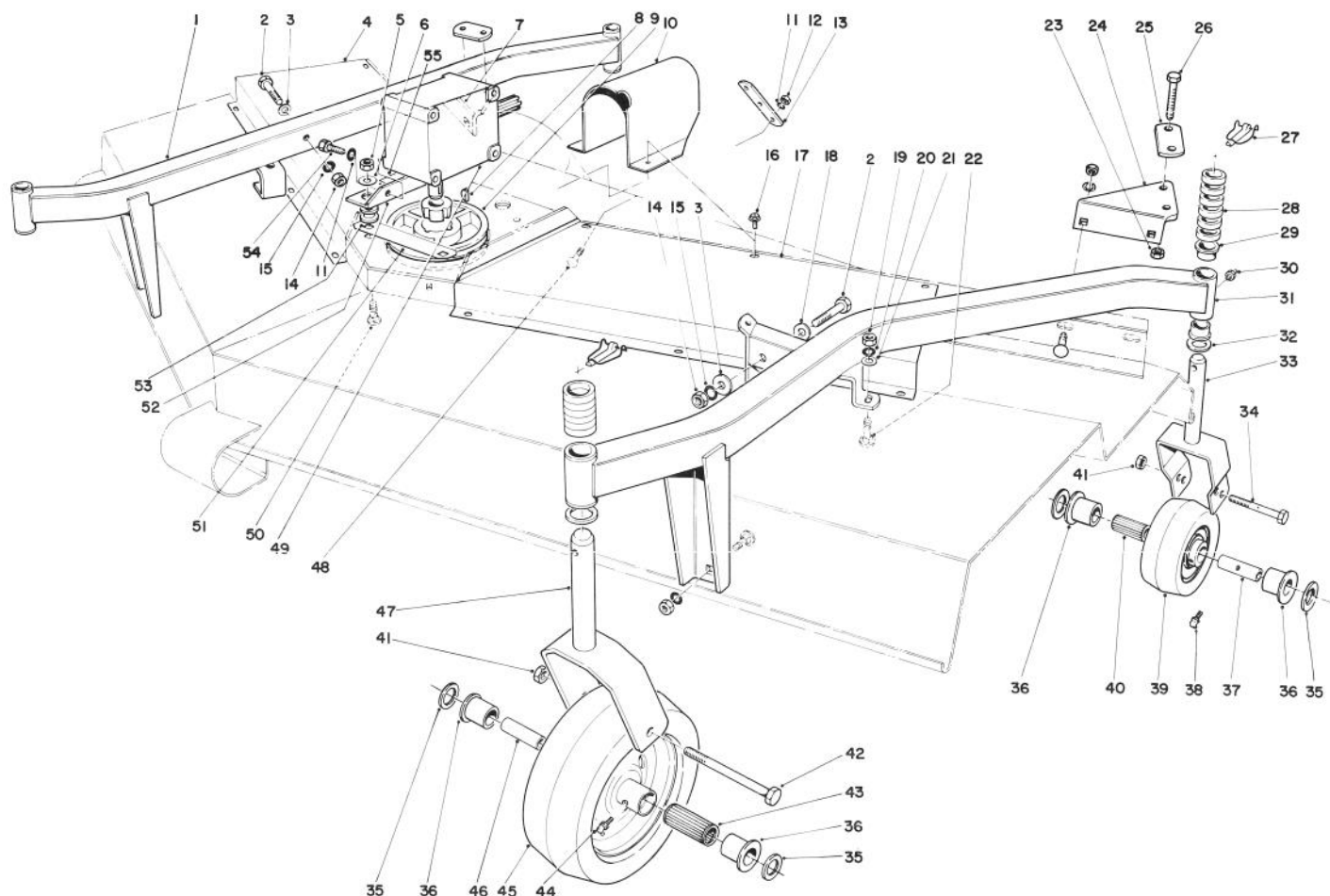
T-0441-89

CUTTING UNIT MODEL NO. 30721

Ref. No.	Part No.	Description	No. Used
1	3234-11	Hex Flange Screw	4
2	67-5360	Decal — Danger	2
3	26-1840	Idler Pulley	3
4	26-1760	Pulley	2
5	51-1570	Cutter Deck	1
6	26-1860	Spacer — Idler Pulley	2
7	32128-21	Flange Nut	31
8	3231-27	Carriage Bolt	6
9	26-1870	Idler Mount L.H.	1
10	3253-21	Lockwasher	7
11	3217-7	Nut	6
12	26-1850	Stud — Idler	1
13	3234-1	Hex Flange Screw	23
14	21-0890	V-Belt	3
15	3296-49	Nut	3
16	3-8514	Washer	3
17	26-9100	Pulley L.H.	1
18	253-138	Oil Seal	9
19	49-8320	Bearing Assembly w/Spacers (Matched Set)	3
20	66-1340	Decal — Danger	2
21	51-1530	Hinge Bracket	2

Ref. No.	Part No.	Description	No. Used
22	32153-5	Nut	2
23	68-7280	Decal — Blade Bolt Torque	1
24	66-6380	Decal — Deflector Missing	1
25	43-8480	Decal — Danger	2
26	51-1470	Deflector	1
27	51-1550	Spring	2
28	302-52	Grease Fitting	3
29	26-1820	Capscrew — Grade 8	3
30	26-1990	Washer — Belleville	3
31	29-5530	Blade	3
32	26-1690	Spindle Outer	2
33	3256-24	Washer	A/R
34	60-9700	Spindle Housing	3
35	325-17	Capscrew	2
36	26-1880	Spacer — Idler Mount	1
37	323-12	Capscrew	1
38	3231-29	Carriage Bolt	2
39	26-1680	Spindle Center	1
40	57-0280	Decal — 72"	1
41	26-1790	Spacer R.H. Spindle	1
*	23-2410	Blade — High Sail (Optional)	3

*Not Illustrated



T-0442-89

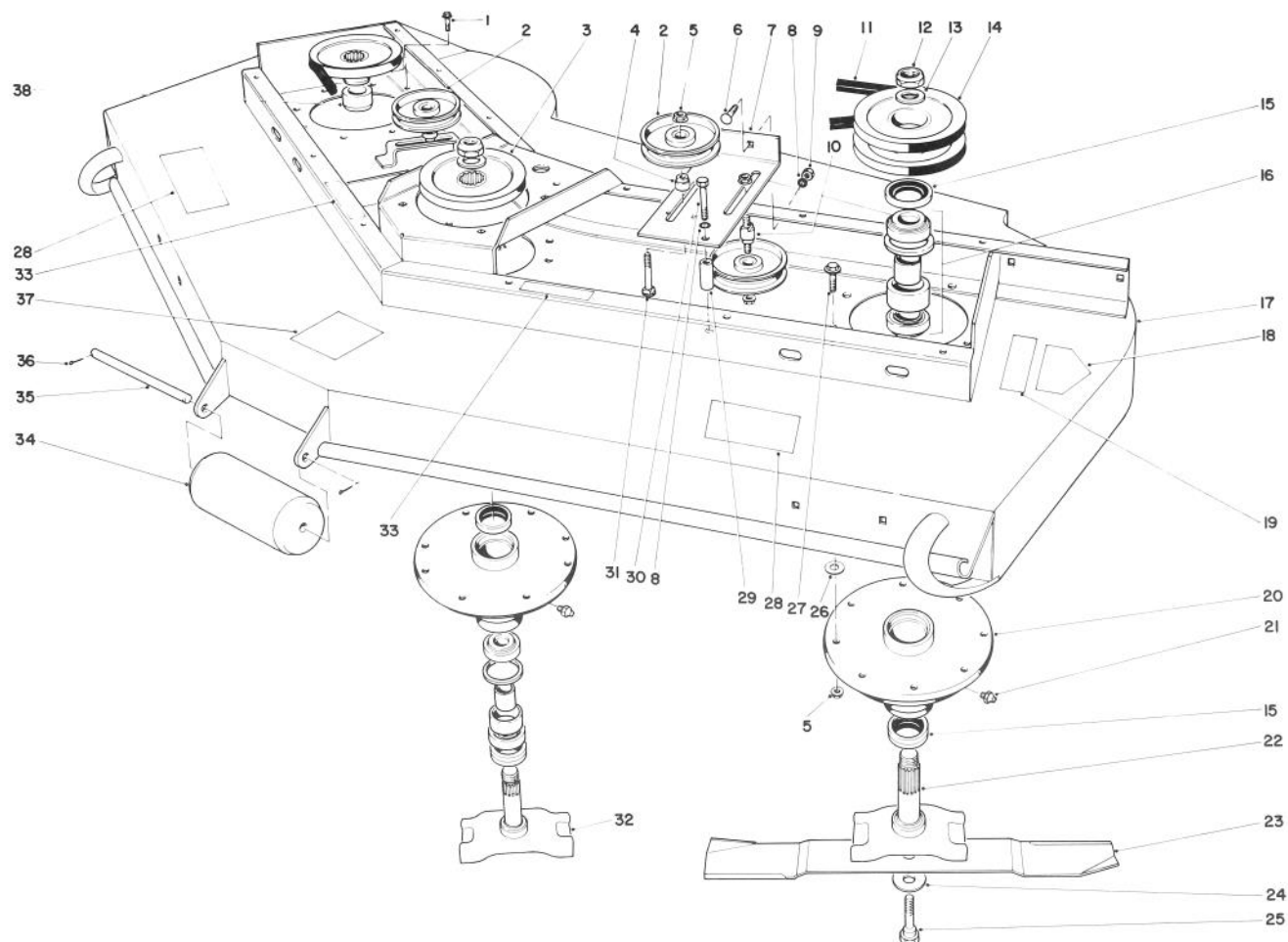
CUTTING UNIT MODEL 30721 (Continued)

Ref. No.	Part No.	Description	No. Used
1	26-1490	Caster Arm R.H. (Incl. Ref. #31)	1
2	324-12	Capscrew	4
3	3256-5	Flatwasher	4
4	26-1890	Cover — Deck R.H.	1
5	32153-2	Nut	4
6	63-8410	Washer	4
7	39-3340	Bracket — Caster Arm Clamp	1
8	3257-5	Key — Woodruff	1
9	26-1400	Pulley-Deck	1
10	63-1970	Shroud Universal	1
11	3253-21	Lockwasher	6
12	3217-7	Nut	2
13	21-3770	Lift Strap	1
14	3217-8	Nut	4
15	3253-6	Lockwasher	4
16	32104-82	Capscrew — Self Tapping	14
17	26-1900	Cover — Deck L.H.	1
18	3256-25	Flatwasher	2
19	3217-9	Nut	12
20	3253-7	Lockwasher	12
21	3256-26	Flatwasher	4
22	3233-2	Carriage Bolt	12
23	3296-23	Nut	4
24	39-7450	Bracket — Caster Arm Clamp	1
25	39-3330	Bar — Caster Clamp	2
26	325-14	Capscrew	4
27	3290-384	Lynch Pin — Safety Type	4
28	63-0070	Spacer 1/2"	24
29	28-9290	Bushing — Special	8

Ref. No.	Part No.	Description	No. Used
30	302-5	Grease Fitting	4
31	26-1430	Caster Arm L.H. (Incl. Ref. #31)	1
32	3-6781	Washer	4
33	26-1560	Caster Fork Rear	2
34	325-17	Capscrew	2
35	3256-6	Washer	8
36	62-5580	Bearing	8
37	63-1770	Spanner — Rear	2
38	302-11	Grease Fitting	2
39	63-8400	Caster Wheel — Rear (Incl. Ref. #38, 40 & 42)	2
40	63-8580	Roller Bearing	2
41	32153-5	Locknut	4
42	325-22	Capscrew	2
43	62-5570	Roller Bearing	2
44	302-40	Grease Fitting	2
45	62-4330	Caster Wheel — Front (Incl. Ref. #38, 42 & 45)	2
*†	54-8810	Pneumatic Tire & Wheel Assembly (Optional)	2
46	64-4340	Spanner — Front	2
47	26-1530	Caster Fork — Front	2
48	3231-27	Carriage Bolt	2
49	68-6810	Gear Case Assembly	1
50	3213-26	Carriage Bolt	4
51	68-9890	Cover — Gear Box Front	1
52	68-8560	Bracket — Gear Box	2
53	63-9750	Mount Isolation	4
54	323-4	Hex Hd. Capscrew	4
55	70-2560	Decal — Lube	1

*Not Illustrated

34†See page 42 for pneumatic tire & wheel assembly.



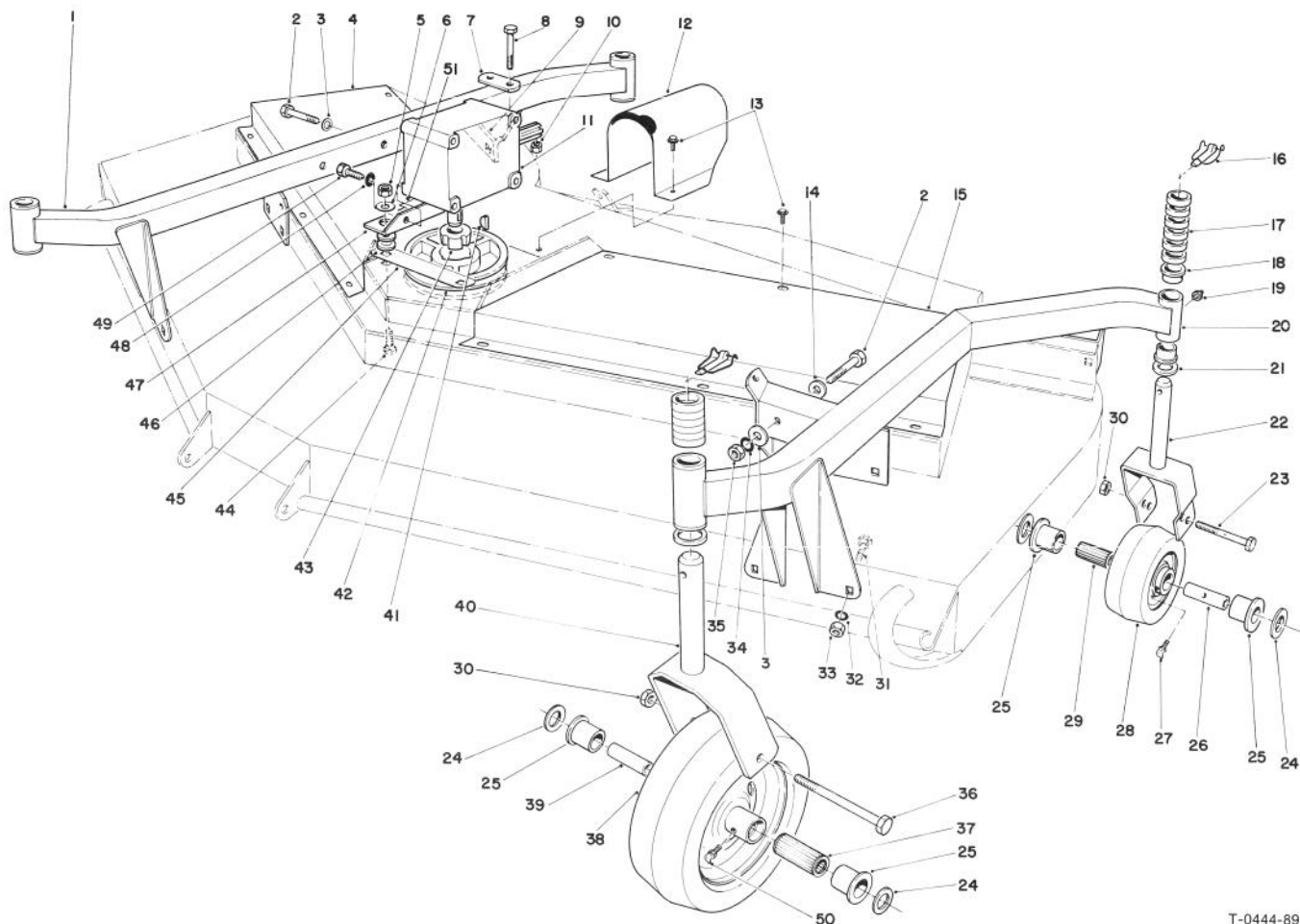
T-0443-89

CUTTING UNIT MODEL NO. 30710

Ref. No.	Part No.	Description	No. Used
1	3234-11	Hex Flange Screw	4
2	26-1840	Idler Pulley	3
3	26-1760	Pulley	2
4	26-1860	Spacer — Idler Pulley	2
5	32128-21	Flange Nut	31
6	3231-22	Carriage Bolt	2
7	26-1870	Idler Mount L.H.	1
8	3253-21	Lockwasher	3
9	3217-7	Nut	2
10	26-1850	Stud Idler	1
11	21-0890	V-Belt	3
12	3296-49	Nut	3
13	3-8514	Washer	3
14	26-9100	Pulley L.H.	1
15	253-138	Oil Seal	9
16	49-8320	Bearing Assembly w/Spacers (Matched Set)	3
17	38-9200	Cutter Deck	1
18	43-8480	Decal — Danger	2
19	68-7280	Decal — Blade Bolt Torque	1

Ref. No.	Part No.	Description	No. Used
20	60-9700	Spindle Housing	3
21	302-52	Grease Fitting	3
22	26-1690	Spindle Outer	2
23	29-5530	Blade	3
24	26-1990	Washer Belleville	3
25	26-1820	Capscrew	3
26	3256-24	Washer	A/R
27	3234-1	Hex Flange Screw	20
28	66-1340	Decal — Danger	2
29	26-1880	Spacer — Idler Mount	1
30	323-12	Capscrew	1
31	3231-29	Carriage Bolt	2
32	26-1680	Spindle Center	1
33	67-5360	Decal — Shield Missing	2
34	31-0750	Roller	1
35	32-9610	Roller Shaft	1
36	3272-11	Cotter Pin	2
37	57-0280	Decal — 72"	1
38	26-1790	Spacer R.H. Spindle	1
*	23-2410	Blade — High Lift (Optional)	3

*Not Illustrated



T-0444-89

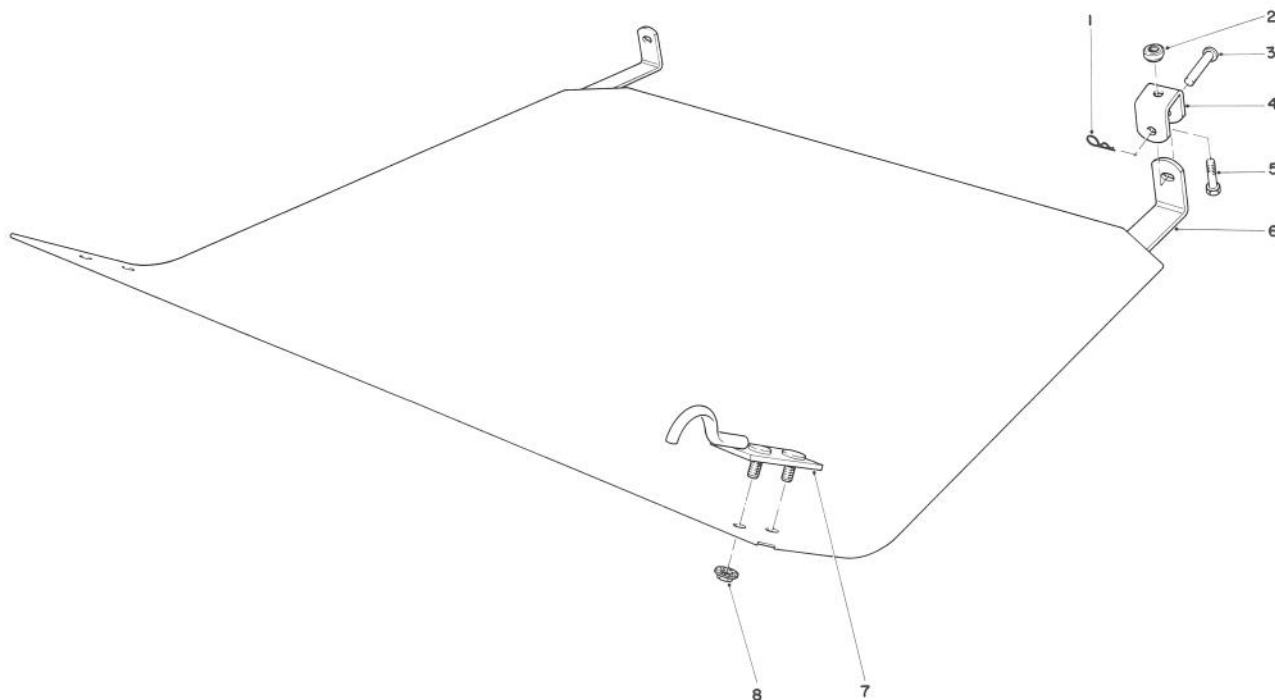
CUTTING UNIT MODEL NO. 30710 (Continued)

Ref. No.	Part No.	Description	No. Used
1	38-9370	Caster Arm R.H. (Incl. Ref. #22)	1
2	324-12	Capscrew	4
3	3256-5	Washer	4
4	26-1890	Cover Deck R.H.	1
5	32153-2	Nut	4
6	63-8410	Washer	4
7	39-3330	Bar — Castor Arm Clamp	1
8	325-14	Capscrew	2
9	39-3340	Bracket — Castor Arm Clamp	1
10	3296-23	Locknut	2
11	68-6810	Gear Box Assembly	1
12	63-1970	Shroud Universal	1
13	32104-82	Capscrew — Self Tapping	14
14	3256-25	Flat Washer	2
15	26-1900	Cover Deck L.H.	1
16	3290-384	Lynch Pin Safety Type	4
17	63-0070	Spacer 1/2"	24
18	28-9290	Bushing — Special	8
19	302-5	Grease Fitting	4
20	38-9420	Castor Arm L.H. (Incl. Ref. #22)	1
21	3-6781	Washer	4
22	26-1560	Caster Fork — Rear	2
23	325-17	Capscrew	2
24	3256-6	Washer	8
25	62-5580	Bushing	8
26	63-1770	Spanner — Rear	2
27	302-11	Grease Fitting	4
28	63-8400	Castor Wheel — Rear (Incl. Ref. #29, 31, & 33)	2

Ref. No.	Part No.	Description	No. Used
29	63-8580	Roller Bearing	2
30	32153-5	Locknut	4
31	3233-2	Carriage Bolt	12
32	3253-7	Lockwasher	12
33	3217-9	Nut	12
34	3253-6	Lockwasher	4
35	3217-8	Nut	4
36	325-22	Capscrew	2
37	62-5570	Roller Bearing	2
38	62-4330	Caster Wheel — Front (Incl. Ref. #25 & 29)	2
39	62-4340	Spanner — Front	2
40	26-1530	Caster Fork	2
41	3257-5	Key — Woodruff	1
42	26-1400	Pulley — Deck	1
43	23-1640	Bushing — Taper Lock	1
44	3231-26	Carriage Bolt	4
45	68-9890	Cover — Gear Box Front	1
46	63-9750	Mount Isolation	4
47	68-8560	Bracket — Gearbox	2
48	3253-21	Lockwasher	4
49	323-4	Hex. Hd. Capscrew	4
*†	54-8810	Pneumatic Tire & Wheel Assembly (Optional)	2
50	302-40	Grease Fitting	2
51	70-2560	Decal — Lube	1

*Not Illustrated

36† See page 42 for pneumatic tire & wheel assembly.

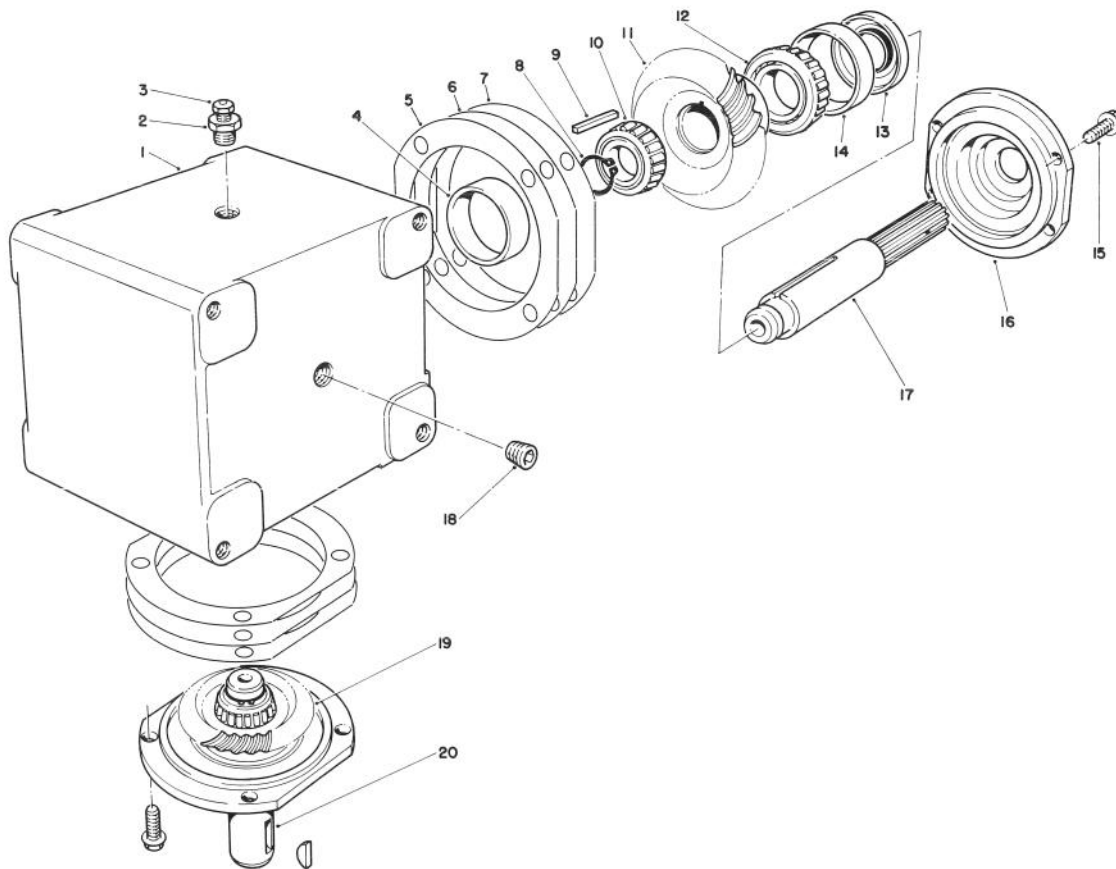


T-0445-89

CUTTING UNIT MODEL NO. 30710 (Continued)

Ref. No.	Part No.	Description	No. Used
1	3290-322	Hair Pin Cotter	2
2†	46-1600	Spacer	2
3	283-23	Clevis Pin	2
4	39-1470	Hanger — Belly Shield	2

Ref. No.	Part No.	Description	No. Used
5	323-7	Capscrew	2
6	39-1410	Belly Shield	1
7	39-1440	Belly Shield Hook	2
8	32128-20	Flange Nut	4

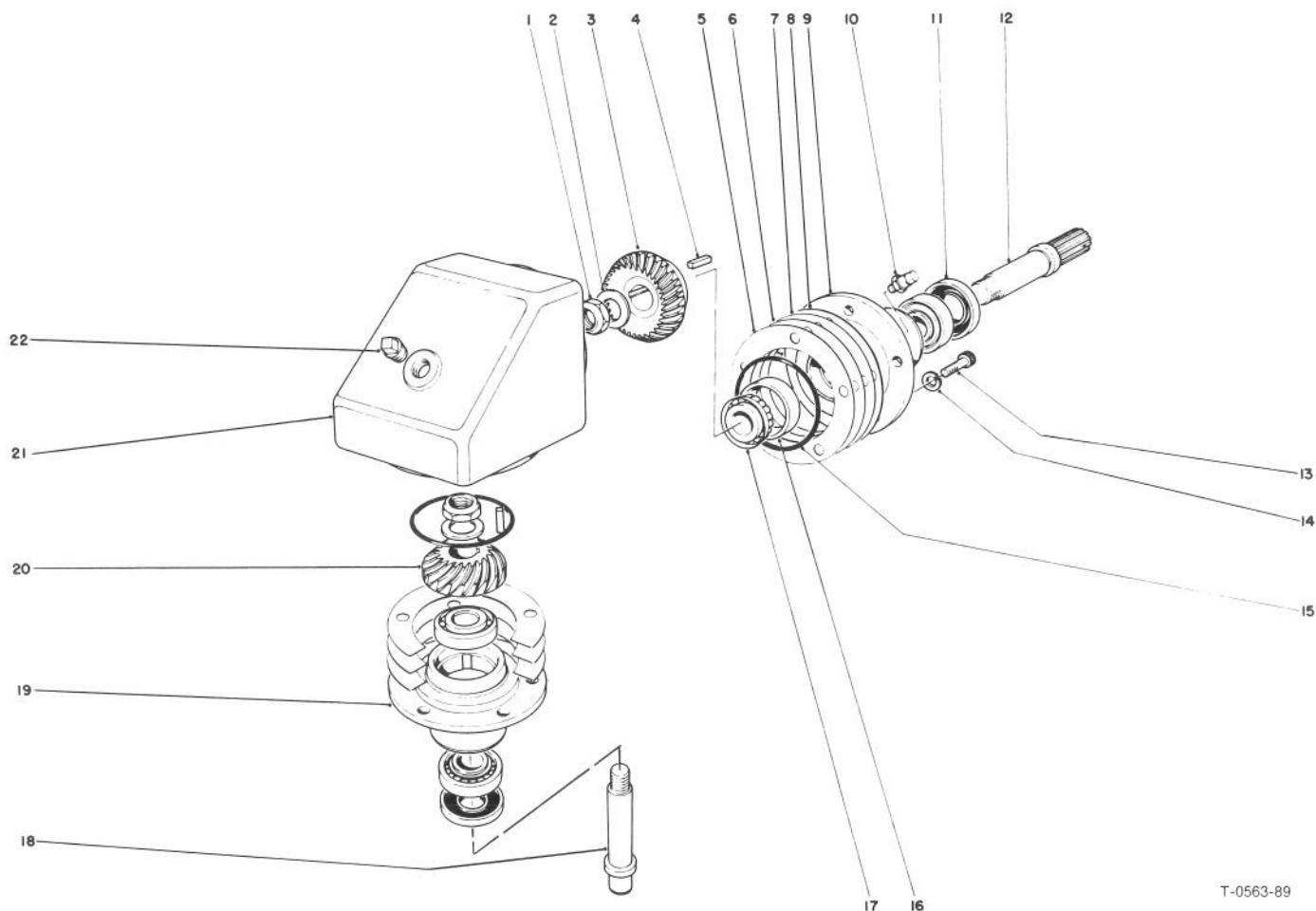


T-0211-89

GEAR BOX ASSEMBLY NO. 68-6810

Ref. No.	Part No.	Description	No. Used
1	68-7030	Housing	1
2	62-3550	Bushing — Reducer	1
3	62-3520	Valve — Pressure Relief	1
4	62-3370	Cup — Bearing	2
5	62-3420	Gasket (.015)	A/R
6	62-3430	Gasket (.005)	A/R
7	62-3440	Gasket (.003)	A/R
8	68-7070	Ring — Retaining	2
9	62-3380	Key	2
10	62-3360	Cone — Bearing	2

Ref. No.	Part No.	Description	No. Used
11	68-7080	Gear	1
12	62-3330	Cone — Gear	1
13	62-3400	Seal	2
14	62-3340	Cup — Bearing	2
15	62-3310	Screw — Sems, Cap	8
16	62-3410	Cap	2
17	68-7050	Shaft	1
18	62-3490	Plug — Pipe (Solid)	1
19	68-7060	Gear	1
20	68-7040	Shaft	1

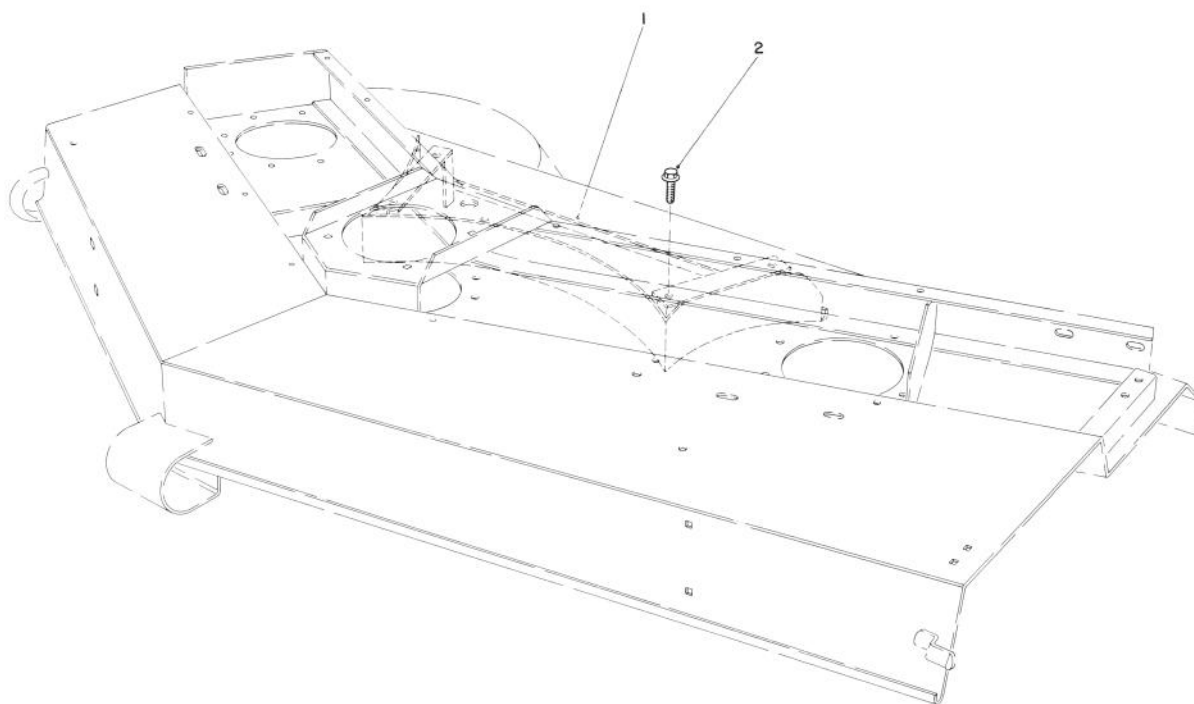


T-0563-89

GEAR BOX ASSEMBLY NO. 63-9870

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

Ref. No.	Part No.	Description	No. Used
12	26-1310	Shaft — Input	1
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



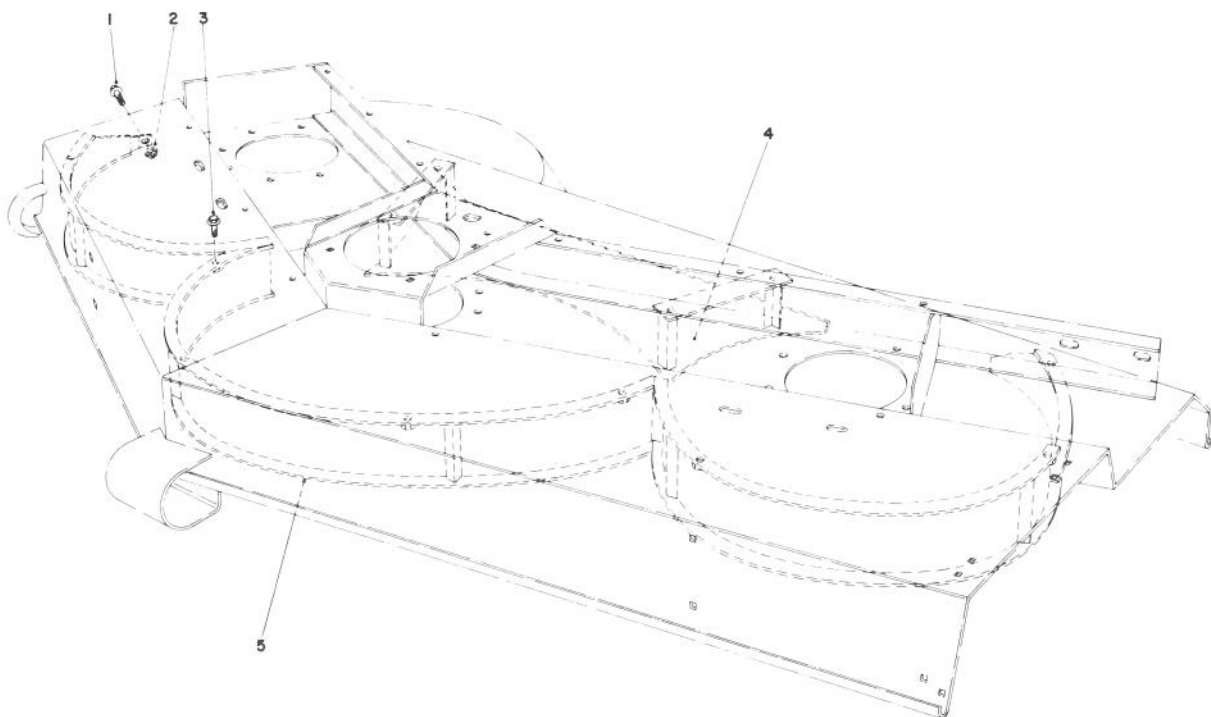
T-0446-89

REAR BAFFLE KIT MODEL NO. 51-1460 (Optional)

Ref. No.	Part No.	Description	No. Used
1		Rear Baffle	1

Ref. No.	Part No.	Description	No. Used
2	3234-1	Screw — Hex. Flange Locking	4

Note: Will not fit with Cutting Unit Model No. 30710.



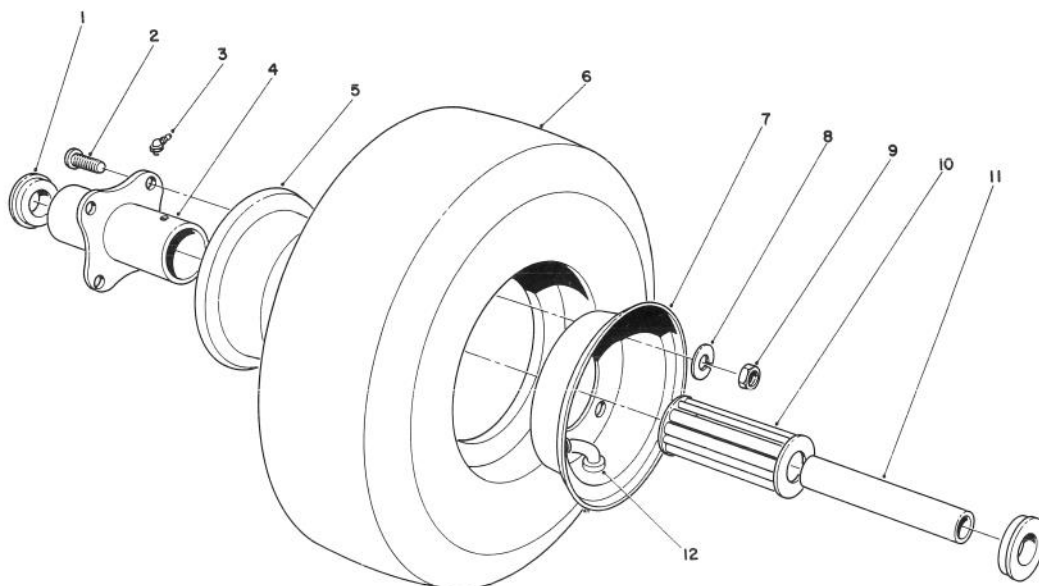
T-0447-89

MULCHER KIT MODEL NO. 30732 (Optional)

Ref. No.	Part No.	Description	No. Used
1	3234-11	Hex Flange Screw	1
2	32128-21	Flange Nut	13
3	3234-1	Hex Flange Screw	12

Ref. No.	Part No.	Description	No. Used
4	23-4190	Bottom Rear Shield	1
5	27-5430	Mulcher Screen	1

Note: Will not fit with Cutting Unit 30710.

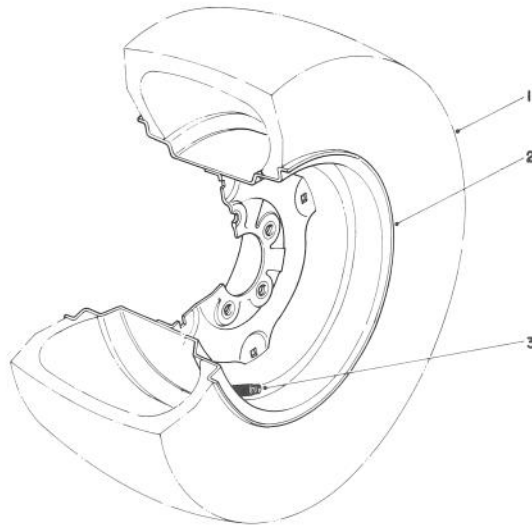


T-0448-89

CUTTING UNIT PNEUMATIC TIRE & WHEEL ASSEMBLY NO. 54-8810 (Optional)

Ref. No.	Part No.	Description	No. Used
1	54-8930	Retainer	2
2	54-8890	Bolt - Wheel	4
3	302-10	Fitting - Grease	1
4	54-8920	Hub - Centered	1
5	54-8910	Wheel Half - Female	1
6	54-8960	Tire	1

Ref. No.	Part No.	Description	No. Used
7	54-8900	Wheel Half - Male	1
8	3253-4	Washer - Lock	4
9	3217-6	Nut - Hex	4
10	54-8940	Bearing - Roller, Open Cage	1
11	55-7080	Bushing - Spanner	1
12	54-8950	Tube w/Valve	1



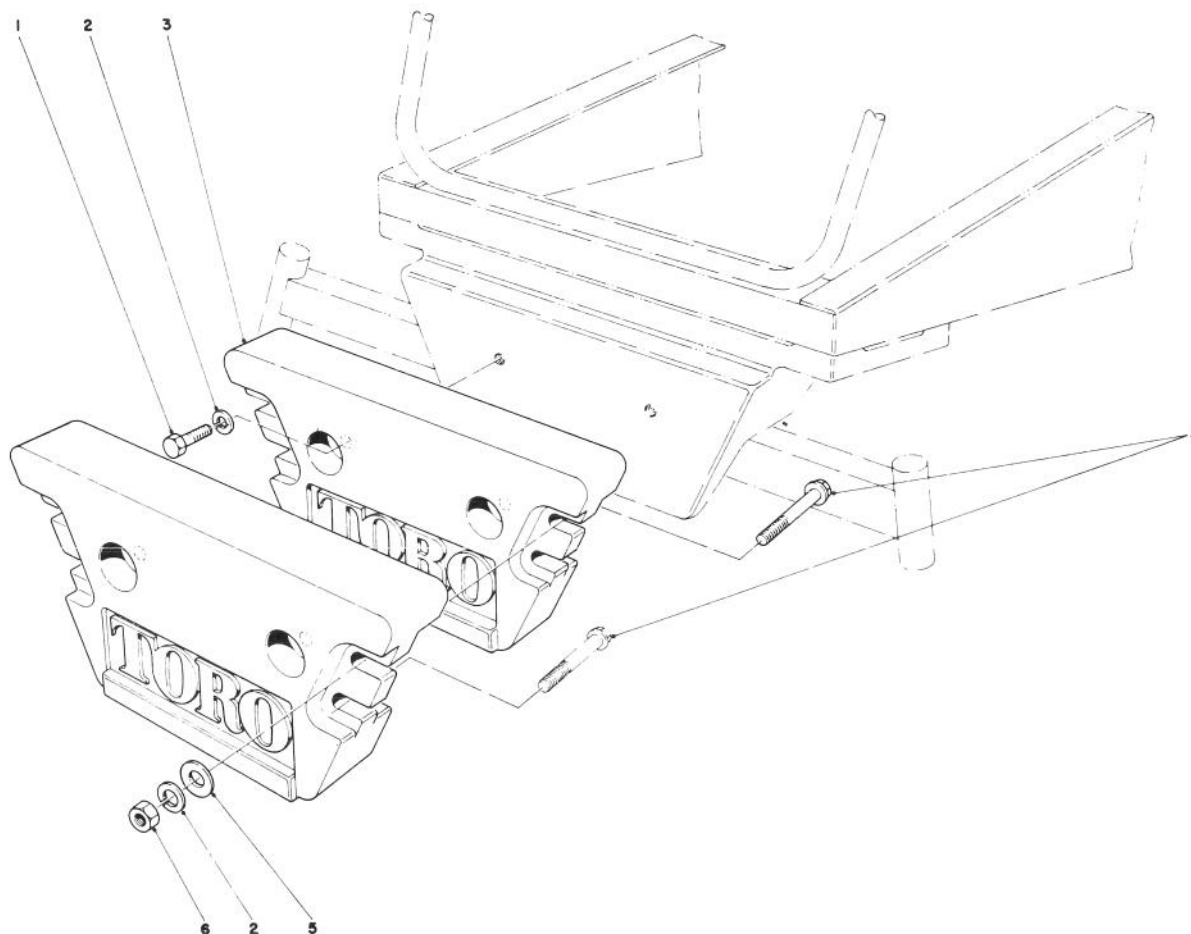
T-0449-89

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

Note: Will not fit with Cutting Unit 30710.

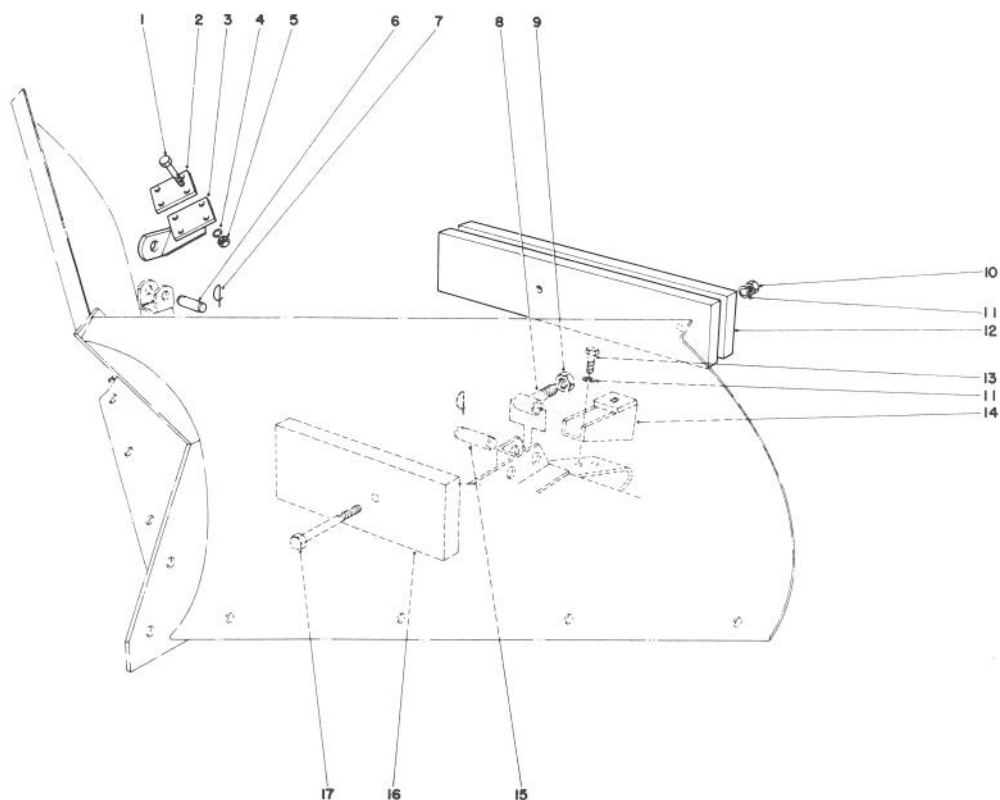


T-0427-89

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

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

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



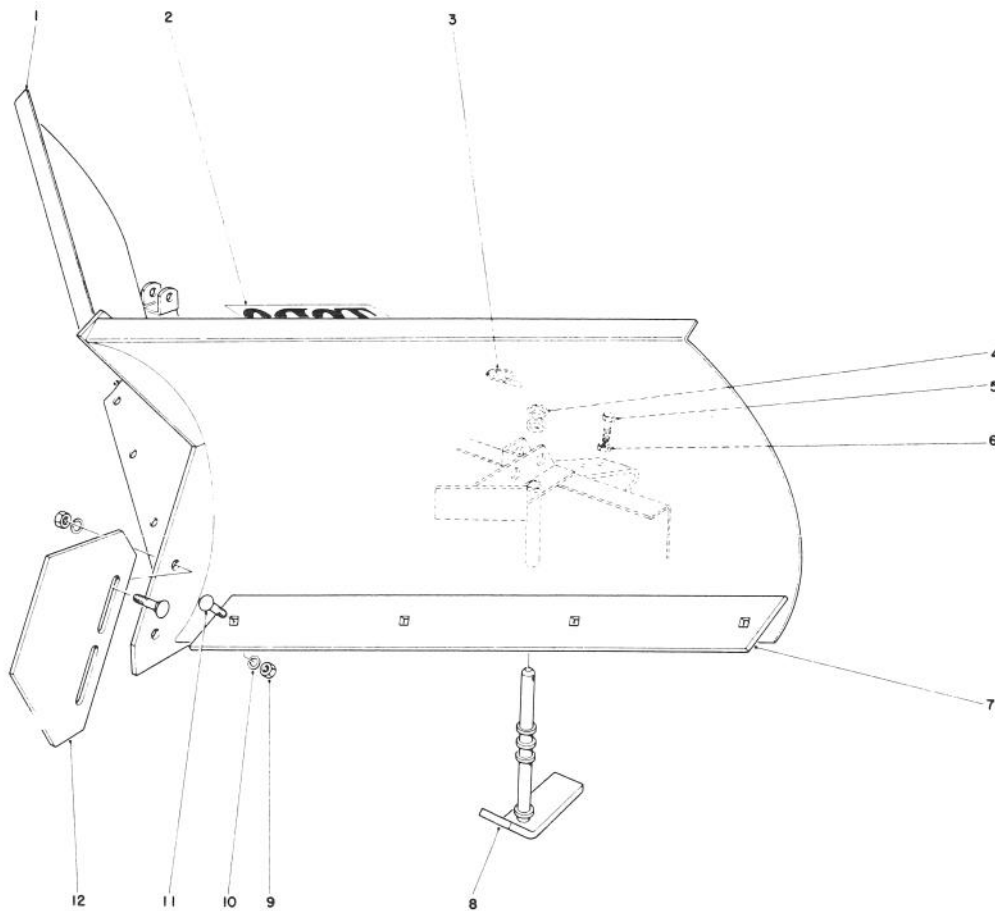
T-0451-89

V-PLOW INSTALLATION KIT MODEL NO. 30757 (Optional)

Ref. No.	Part No.	Description	No. Used
1	323-14	Capscrew	4
2	24-2690	Clamp Plate	1
3	24-2680	Push Arm Bracket	1
4	3253-21	Lockwasher	4
5	3217-7	Nut	4
6	5-3505	Pin	1
7	5-3126	Spring Pin	4
8	23-9930	Push Pin	1
9	21-3000	Jam Nut	1

Ref. No.	Part No.	Description	No. Used
10	3217-9	Nut	2
11	3253-7	Lockwasher	4
12	24-2660	Outside Weight	2
13	325-4	Capscrew	2
14	24-2630	Stop	1
15	25-1350	Pin	1
16	24-2670	Inside Weight	2
17	325-22	Capscrew	2
*	11-0390	Chains (1 Pair)	1

*Not Illustrated

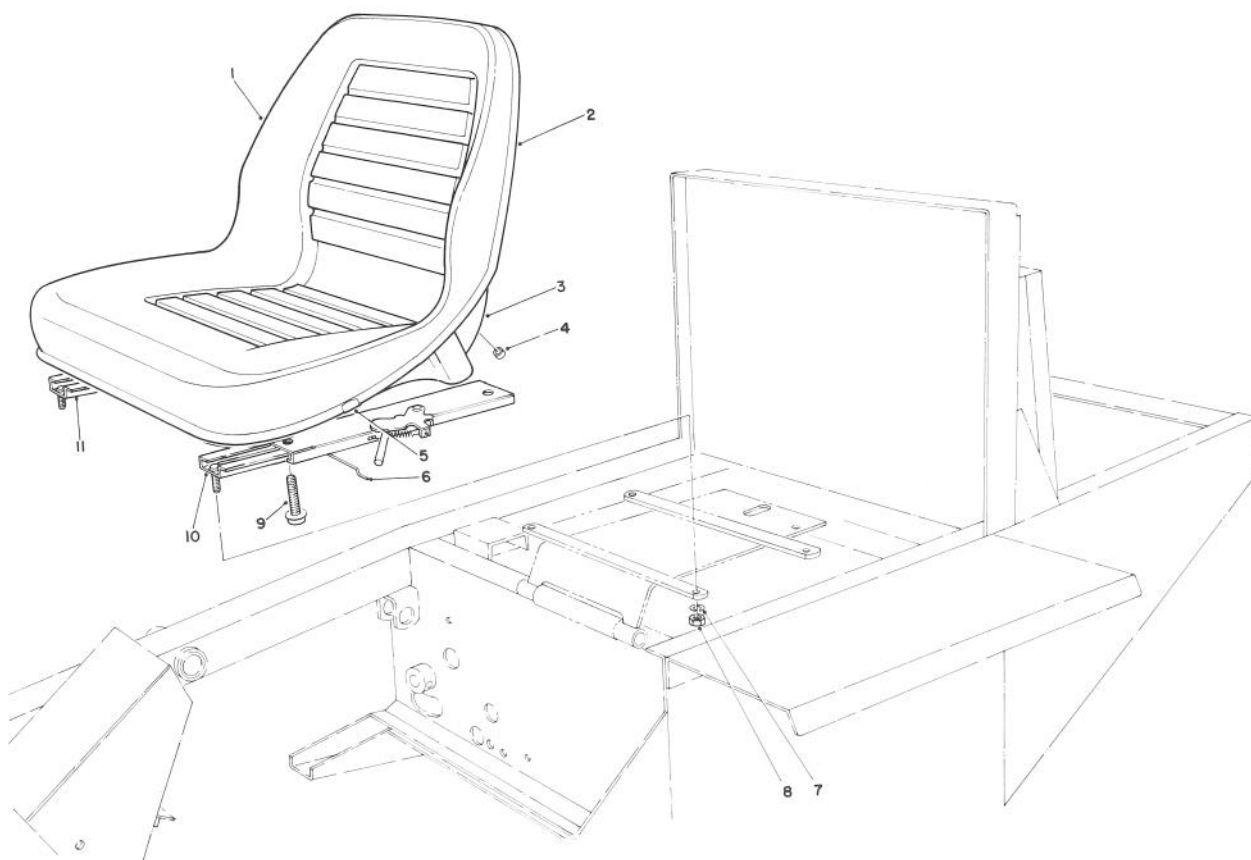


T-0452-89

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



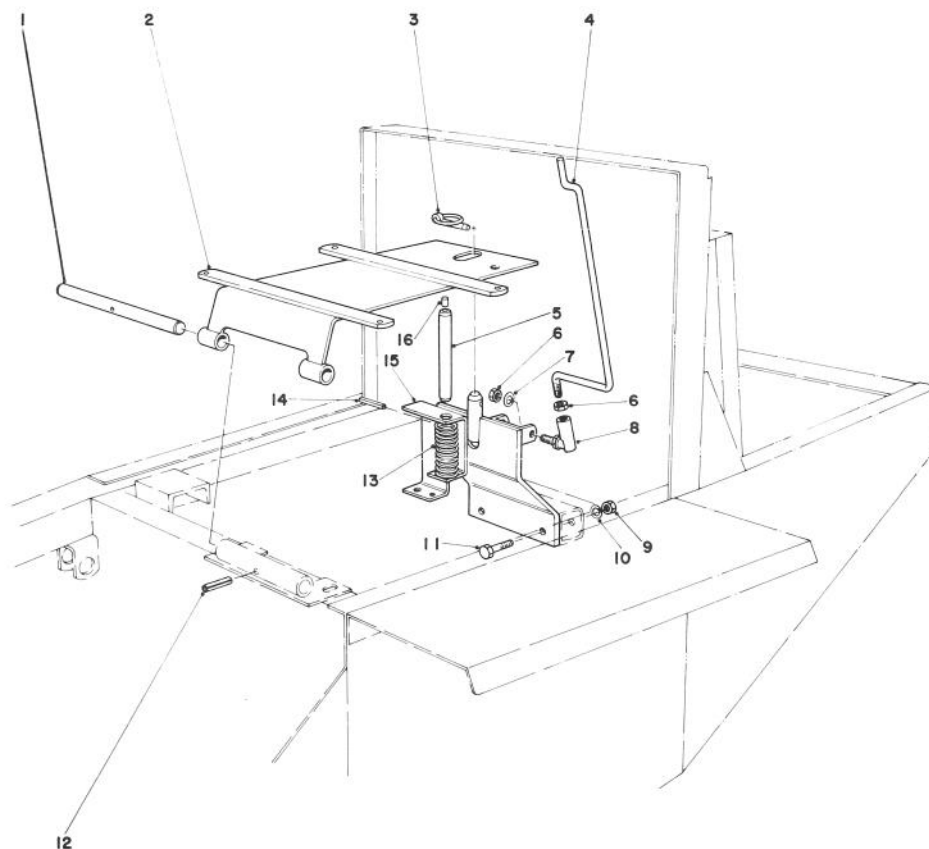
T-0450-89

STANDARD SEAT KIT MODEL NO. 30770

Ref. No.	Part No.	Description	No. Used
1		Cushion	1
2		Trim	1
3		Base	1
4		Grommet	1
5		Clip	1
6	52-4890	Rod — Connecting	1
7	3253-4	Lockwasher	4

Ref. No.	Part No.	Description	No. Used
8	3217-6	Nut	4
9	3234-5	Hex Flange Hd. Capscrew	4
10	51-0790	Adjuster — L.H.	1
11	52-4880	Adjuster — R.H.	1
*	66-5400	Seat Assembly (Incl. Ref. #1-5)	1

*Not Illustrated

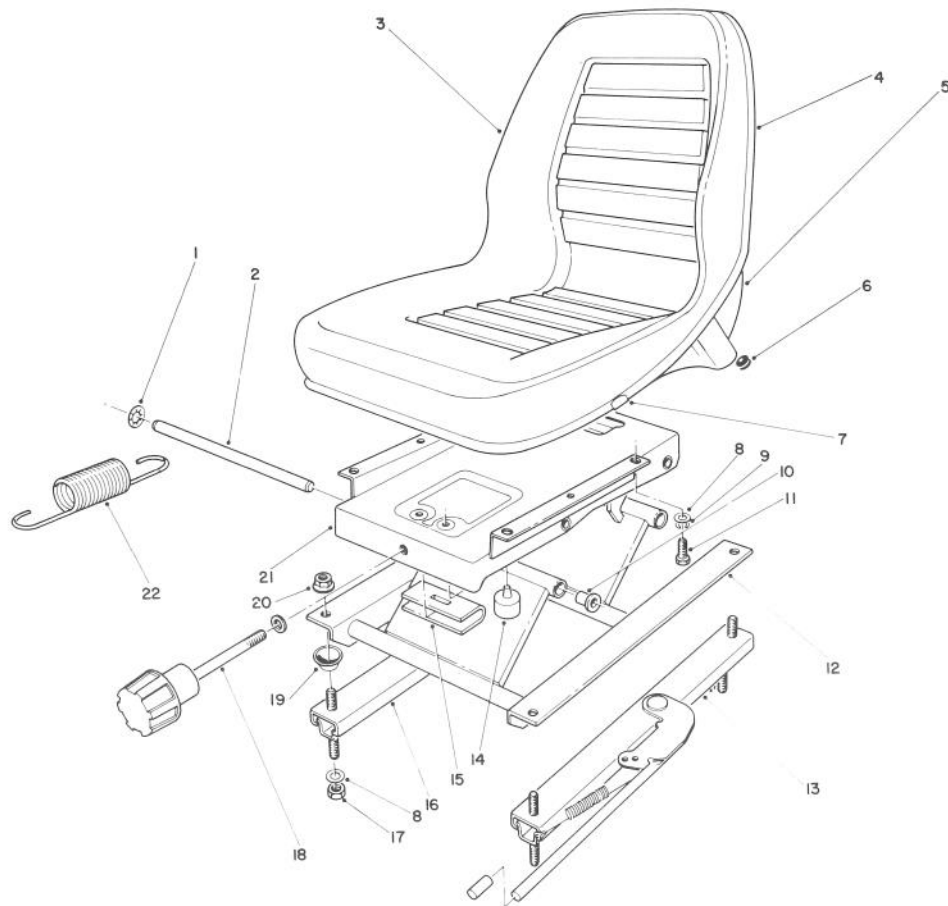


T-0453-89

STANDARD SEAT KIT MODEL NO. 30770 (Continued)

Ref. No.	Part No.	Description	No. Used
1	27-4720	Shaft	1
2	36-7550	Seat Support	1
3	283-76	Lynch Pin	1
4	37-9580	Seat Prop	1
5	27-9870	Pin — Seat Switch	1
6	3220-2	Jam Nut	2
7	3253-24	Lockwasher	1
8	37-9570	Ball Joint	1

Ref. No.	Part No.	Description	No. Used
9	32128-21	Nut	2
11	323-14	Capscrew	2
12	32121-4	Spring Pin	1
13	28-0570	Spring Compression	1
14	32121-6	Spring Pin	1
15	71-4490	Seat Support Bracket	1
16	28-6180	Pin — Plastic	1



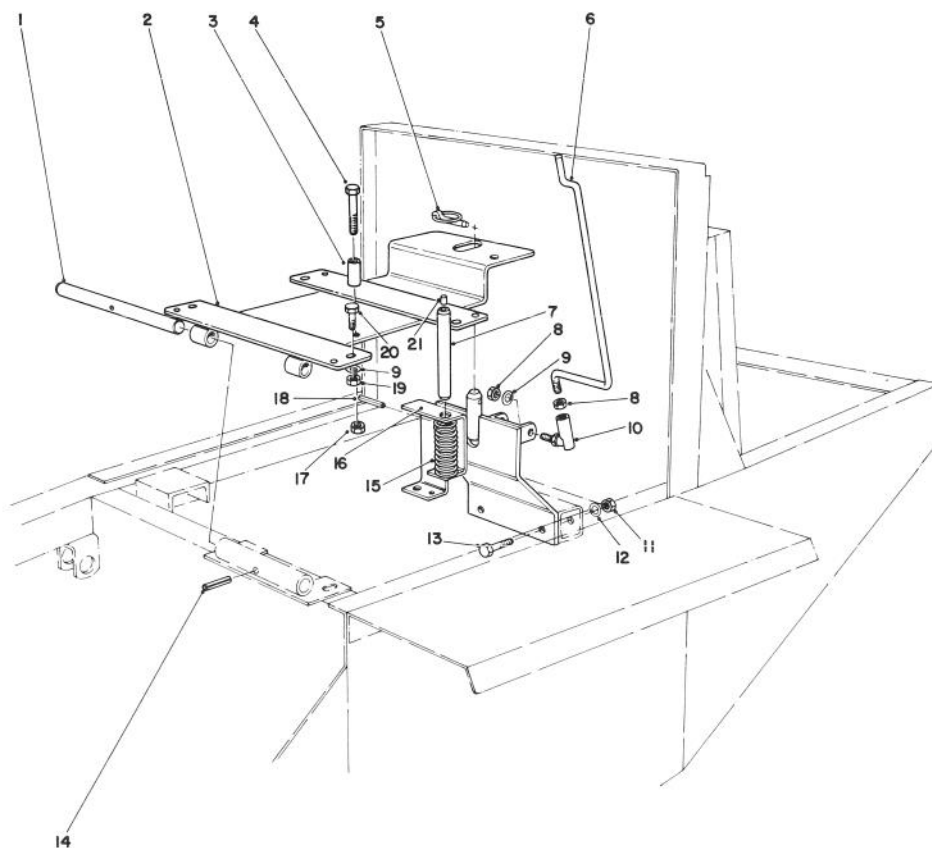
T-0454-89

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		Cushion — Seat	1
4		Trim — Seat	1
5		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

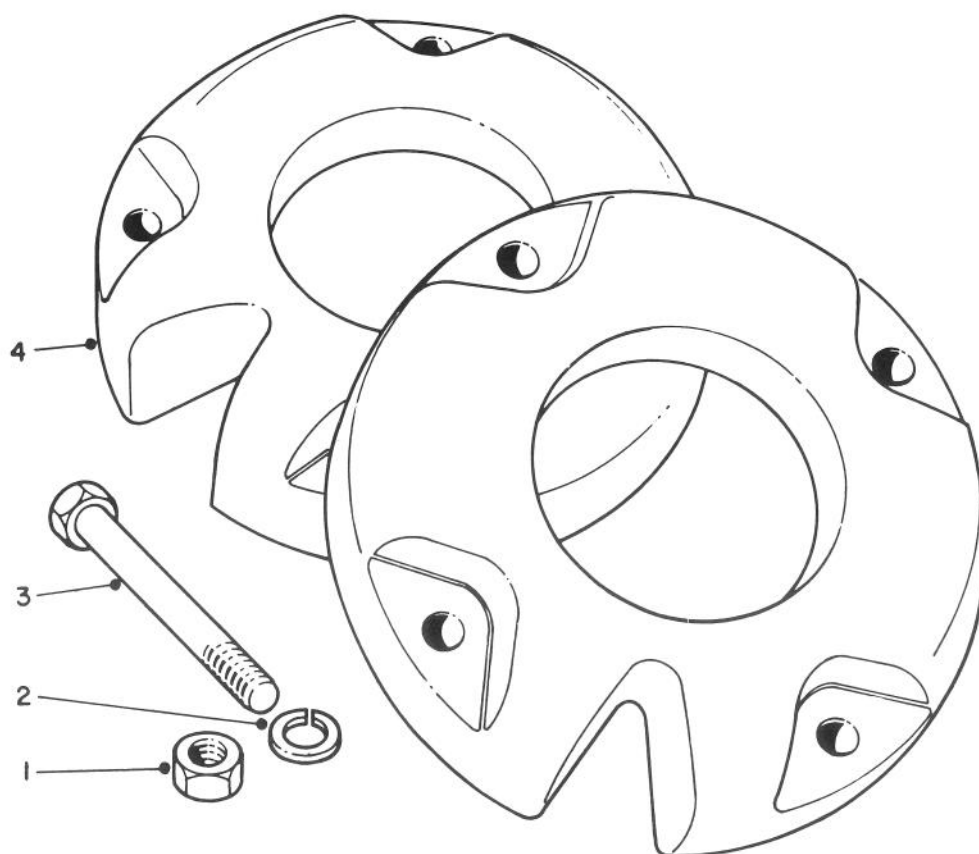


T-0212-89

DELUXE SEAT ADAPTER KIT MODEL NO. 30791

Ref. No.	Part No.	Description	No. Used
1	27-4720	Shaft	1
2	67-9860	Support — Seat	1
3	67-9210	Spacer	1
4	322-10	Hex Hd. Capscrew	1
5	283-76	Lynch Pin	1
6	37-9580	Prop — Seat	1
7	27-9870	Pin — Seat Switch	1
8	3220-2	Jam Nut	2
9	3253-24	Lockwasher	5
10	37-9570	Ball Joint	1

Ref. No.	Part No.	Description	No. Used
11	32128-21	Nut	2
13	323-4	Hex Hd. Capscrew	2
14	32121-4	Pin — Spring	1
15	37-9590	Spring — Compression	1
16	71-4490	Bracket — Seat Support	1
17	32146-5	Locknut	1
18	32121-6	Pin — Spring	1
19	3217-6	Nut	4
20	322-4	Hex Hd. Capscrew	4
21	28-6180	Pin — Plastic	1



T-0457-89

WHEEL WEIGHTS MODEL NO. 11-0440 (Optional)

Ref. No.	Part No.	Description	No. Used
1	3218-5	Nut	8
2	3253-7	Lockwasher	8

Ref. No.	Part No.	Description	No. Used
3	325-14	Capscrew	8
4	7-2111	Wheel Weight	2

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 345 has two identification numbers: a model number and a serial number. The two numbers are stamped on a plate which is riveted on main frame located under seat. In any correspondence concerning the Groundsmaster 345, 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 345.
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	Description	Page
Main Frame	1-2	Control Valve Assembly No. 43-1710	26
Instrument Panel Assembly	3	Engine Assembly-67-8450	27-29
Electrical Schematic	4	Governor Assembly No. 67-8360	30
Radiator & Hood Assembly	5	Air Cleaner Assembly	31
Interlock Assembly	6	Push Arm Assembly	32
Power Take Off Assembly	7-8	Cutting Unit Model No. 30721	33-34
Drive Shaft Assembly No. 62-4260	9	Cutting Unit Model No. 30710	35-37
Brake Pedal Assembly	10	Gear Box Assembly No. 68-6810	38
Power Steering Assembly	11	Gear Box Assembly No. 63-9870	39
Power Steering Valve Assembly No. 63-9250	12	Rear Baffle Kit No. 51-1460 (Optional)	40
Hydraulic Schematic	13	Mulcher Kit Model No. 30732 (Optional)	41
Front Axle and Fuel Tank Assembly	14	Cutting Unit Pneumatic Tire & Wheel Assembly No. 54-8810 (Optional)	42
Front Axle Assembly No. 67-8220	15-16	Tire & Wheel Assembly 23 x 10.50 x 12 (Optional) No. 62-7020	43
Brake Assembly	17	Rear Weight Kit Model No. 24-5780 (Optional)	44
Rear Axle and Wheel Assembly	18	V-Plow Installation Kit Model No. 30757 (Optional)	45
Hydraulic Steering Cylinder Assembly No. 63-9240	19	V-Plow Model No. 30750 (Optional)	46
Hydrostatic Transmission	20	Standard Seat Kit Model No. 30770	47-48
Transmission Assembly No. 71-4370	21-22	Deluxe Seat Kit Model No. 30772	49
Valve and Cylinder Assembly	23	Deluxe Seat Adapter Kit Model No. 30791	50
Hydraulic Lift Cylinder Assembly No. 66-4250 (Optional)	24	Wheel Weights Model No. 11-0440 (Optional)	51
Hydraulic Lift Cylinder Assembly No. 66-1250 (Optional)	25		