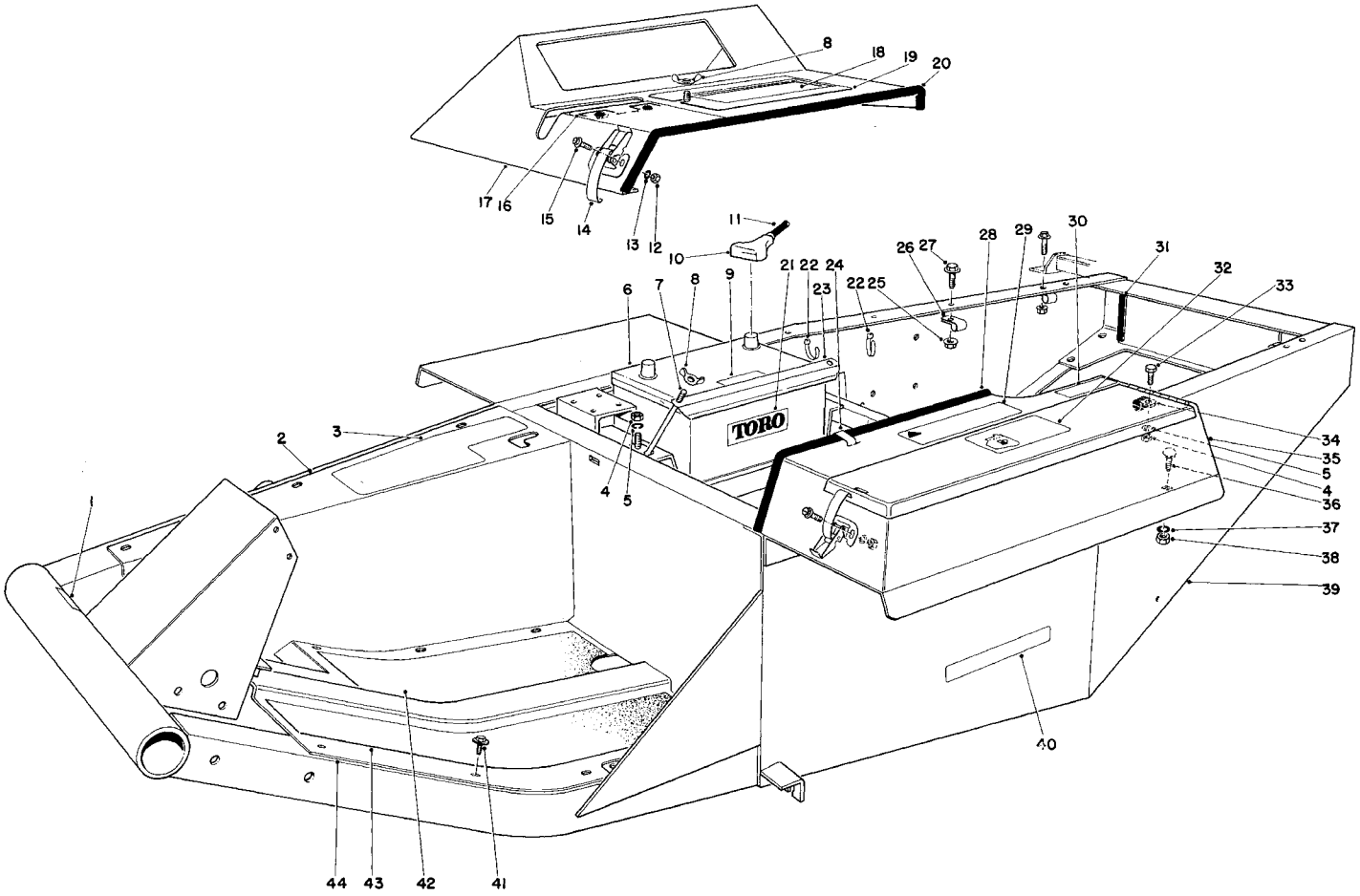
FORM NO. 3311-990

TORO®

MODEL NO. 30782 – 30001 & UP
MODEL NO. 30721 – 30001 & UP
MODEL NO. 30710 – 30001 & UP

PARTS CATALOG

GROUNDSMASTER 72® DIESEL

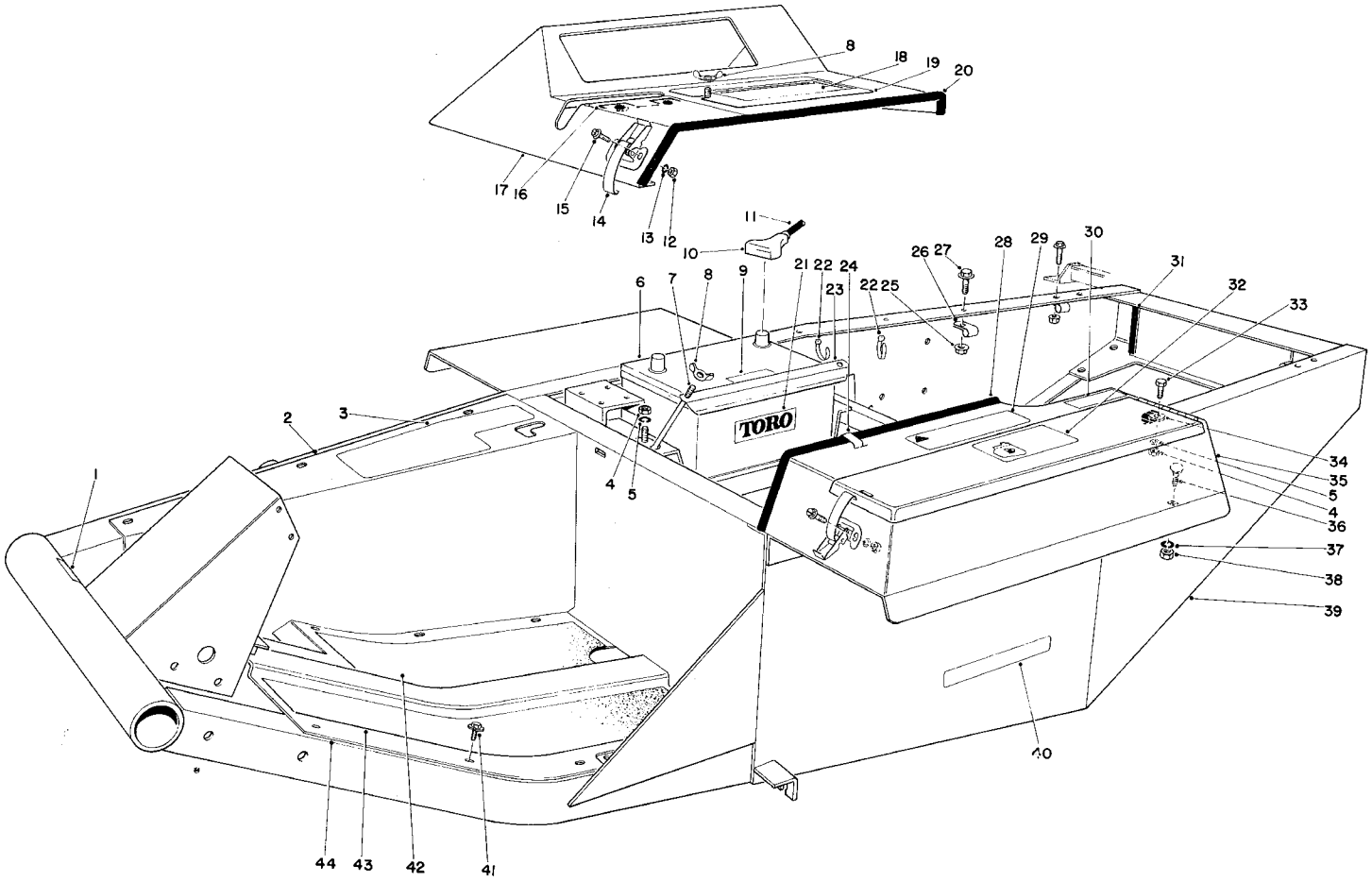


MAIN FRAME

Ref. No.	Part No.	Description	No. Used
1	27-7320	Decal – Traction Pedal	1
2	21-2660	Footrest	1
3	27-7270	Decal – Caution	1
4	3217-6	Nut	3
5	3253-4	Lockwasher	3
6	43-4240	Battery (Incl. Ref. #9 & 21)	1
7	24-6390	Stud Battery Hold Down	2
8	32103-2	Wing Nut	3
9		Decal	1
10	28-1280	Cable Boot	1
11	43-4030	Cable – Battery Positive (Incl. Ref. #10)	1
12	3217-26	Nut	6
13	3253-17	Lockwasher	6
14	249-21	Hook Clamp	3

Ref. No.	Part No.	Description	No. Used
15	3290-144	Machine Screw	6
16	27-7290	Decal – Power Take Off	1
17	38-4550	Instrument Cover	1
18	43-4290	Decal – Starting Instructions	1
19	24-9740	Cover – Battery Access	1
20	39-8020	Trim – Instrument Cover	1
21		Decal	1
22	3290-378	Cable Tie	2
23	24-6420	Hold Down Battery	1
24	2412-61	Clip Tinnerman	2
25	3290-357	Locknut w/Flange	5
26	2412-4	Clamp	4
27	3234-11	Capscrew w/Locking Flange	5
28	37-9650	Trim	1
29	28-3290	Decal – Caution	1

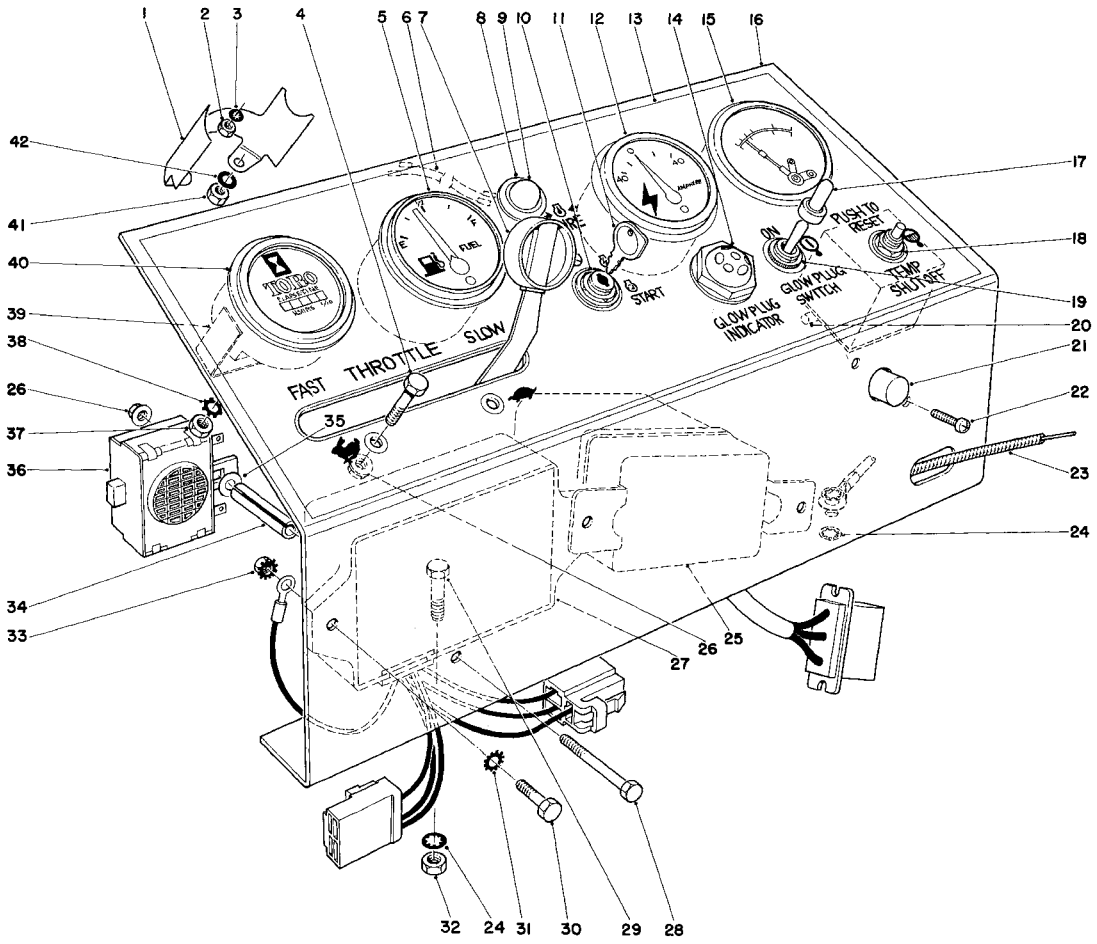
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MAIN FRAME (Continued)

Ref. No.	Part No.	Description	No. Used
30	43-5890	Decal – Diesel Fuel	1
31	43-4300	Trim – Rear Frame	2
32	27-7310	Decal – Refueling	1
33	322-3	Capscrew	1
34	2412-74	Clamp	1
35	38-4530	Tool Box	1
36	3229-10	Carriage Bolt	5
37	3253-3	Lockwasher	5

Ref. No.	Part No.	Description	No. Used
38	3217-5	Nut	5
39	43-3250	Frame	1
40	36-8000	Decal – Torque	2
41	32144-10	Hex Hd. Thread Forming Screw	11
42	21-2770	Pad – Foot Rest R.H.	1
43	21-2760	Pad – Foot Rest L.H.	1
44	23-5220	Floor Plate	1

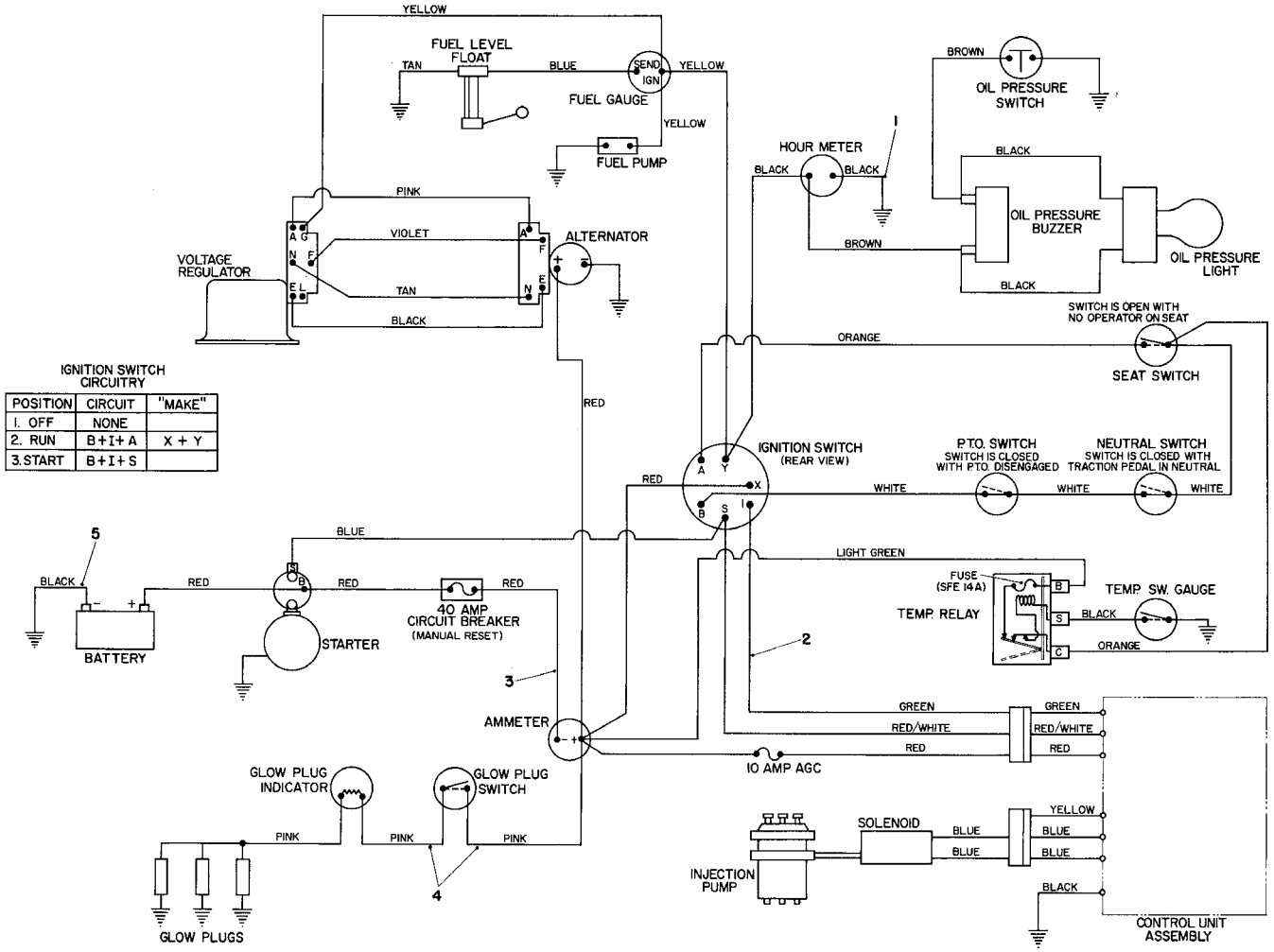


INSTRUMENT PANEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1		Clamp Mounting	2
2	3217-29	Nut	4
3	3254-9	Lockwasher Intl. Tooth	4
4	3290-134	Hex Hd. Machine Screw	2
5	38-1650	Fuel Gauge (Incl. Ref. #1)	1
6	44-2220	Wire Lead	2
7	233-35	Knob	1
8	44-2210	Warning Light	1
9	218-533	Lens	1
10	27-2360	Key Switch	1
11	218-412	Key & Ring Assembly	1
12	38-1660	Ammeter	1
13	43-3980	Decal – Instrument Panel	1
14	42-9180	Glow Lamp	1
15	26-6750	Engine Temperature Gauge	1
16	43-3970	Panel – Instrument	1
17	218-473	Toggle Switch Boot	1
18	26-6740	Temperature Reset Relay	1
19	6-1659	Toggle Switch	1
20†		Fuse, Temp. Relay 14 Amp. SFE	1
21	43-4000	Circuit Breaker	1

Ref. No.	Part No.	Description	No. Used
22	3250-17	Screw Machine Cross Recess Pan Hd.	2
23	43-3990	Throttle Control	1
24	3254-2	Lockwasher Intl. Tooth	4
25	43-0410	Regulator Assembly	1
26	32128-17	Locknut Flanged	3
27	43-1880	Control Unit Assembly	1
28	3290-424	Hex. Hd. Machine Screw	1
29	322-3	Capscrew	2
30	321-4	Capscrew	3
31	3255-7	Lockwasher Ext. Tooth	3
32	3217-6	Hex Nut	2
33	32149-2	Locknut	3
34	43-3820	Spacer	1
35	3256-14	Washer, Plain	1
36	22-7820	Buzzer Assembly	1
37	3217-26	Nut	1
38	3254-1	Lockwasher	1
39	218-515	Mounting Bracket	1
40	12-9990	Hour Meter (Incl. Ref. #39)	1
41	3219-4	Nut	4
42	3253-17	Lockwasher	4

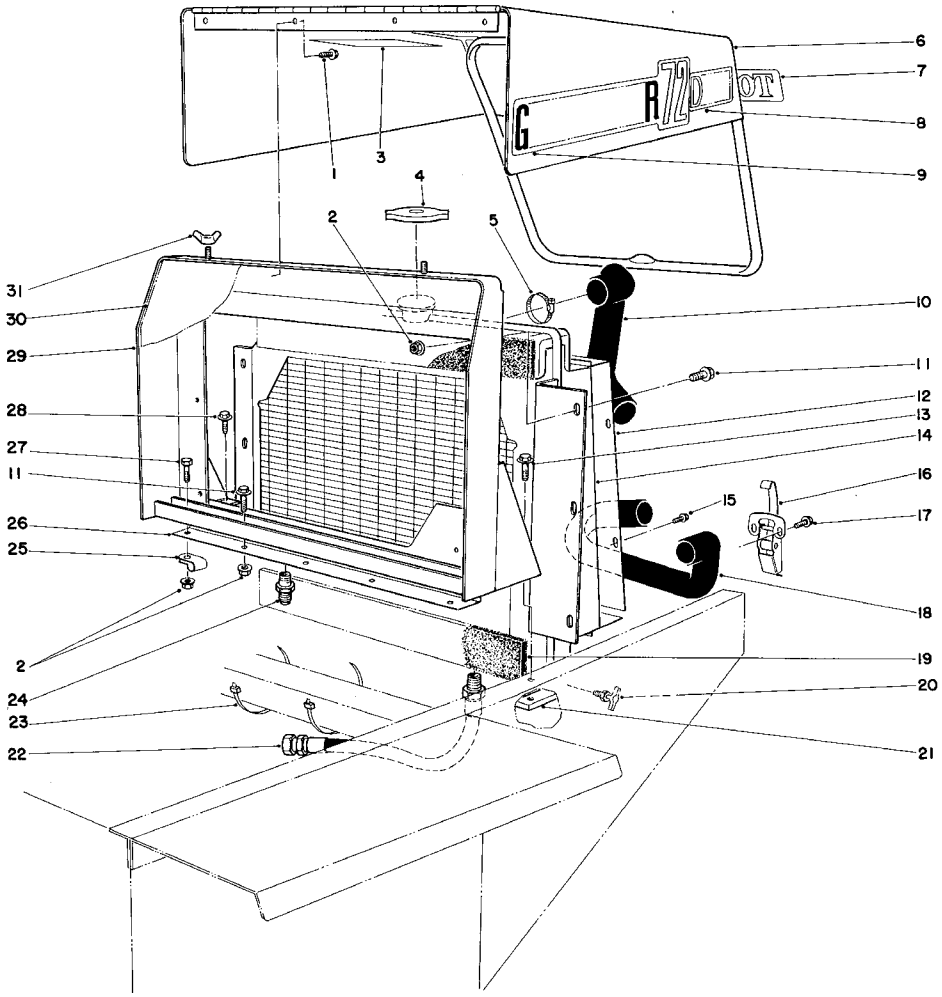
†Obtain Locally



ELECTRICAL SCHEMATIC

Ref. No.	Part No.	Description	No. Used
1	21-2370	Wire Hour Meter Ground	1
2	43-4050	Wire Harness Assembly	1
3	43-4040	Wire Assembly	1

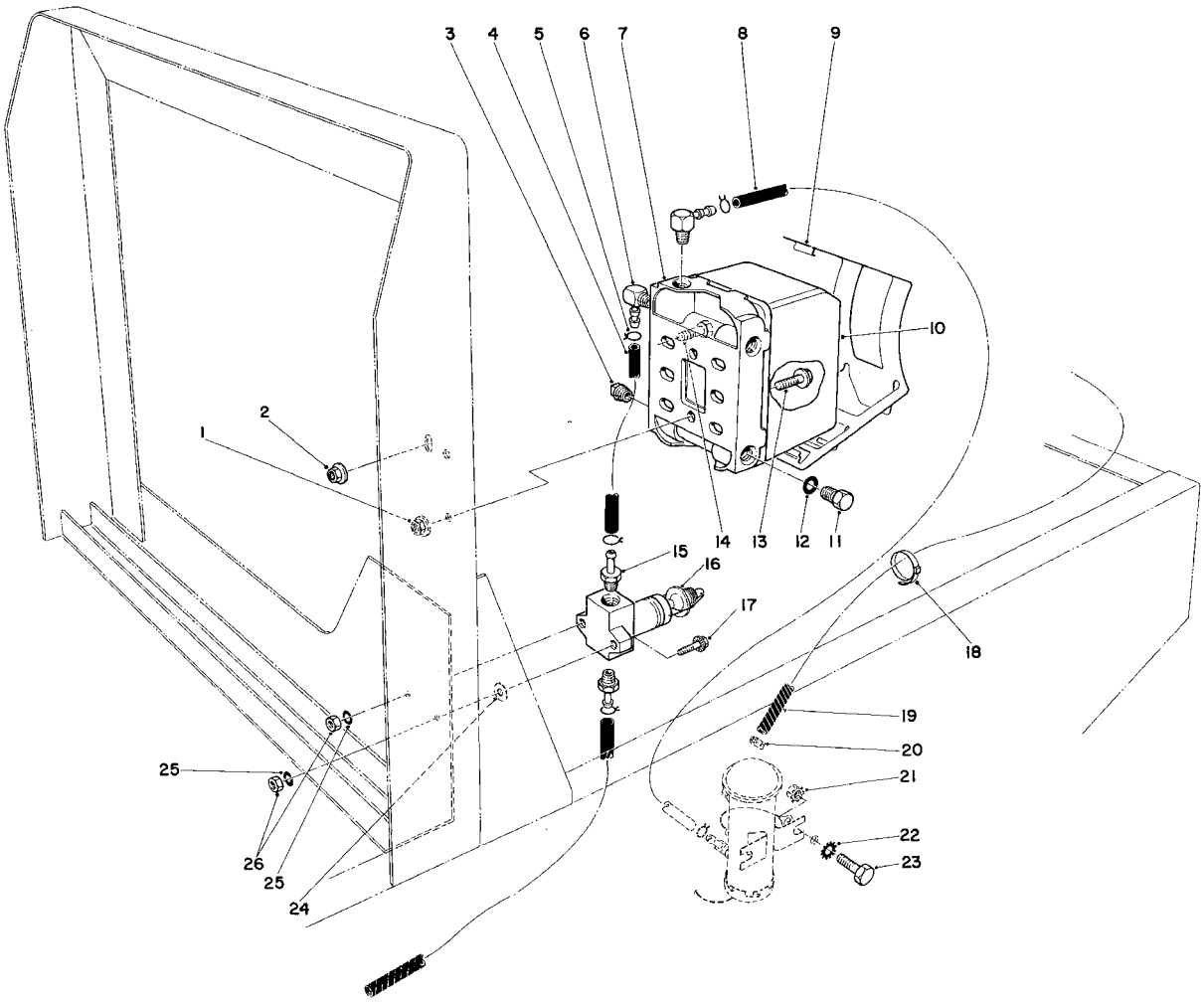
Ref. No.	Part No.	Description	No. Used
4	43-4010	Wire Assembly	2
5	19-3200	Ground Cable	1



RADIATOR & HOOD ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	32144-10	Screw – Thread Forming Hex Washer Hd.	4
2	32128-20	Hex Nut Flanged	12
3	26-7530	Decal Engine Coolant	1
4	18-2660	Radiator Pressure Cap Assembly	1
5	2412-3	Hose Clamp	4
6	43-4130	Hood	1
7	43-9020	Decal – Toro	1
8	43-9030	Decal – Diesel	2
9	43-9140	Decal – Groundsmaster 72 Diesel	2
10	43-3350	Hose Upper Radiator	1
11	3234-14	Screw Hex Flange	11
12	43-3330	Shroud – Radiator	1
13	3234-1	Screw-Cap Locking Hex Flange Hd.	2
14	43-3390	Radiator Support	1
15	32104-116	Screw Self Tapping	8

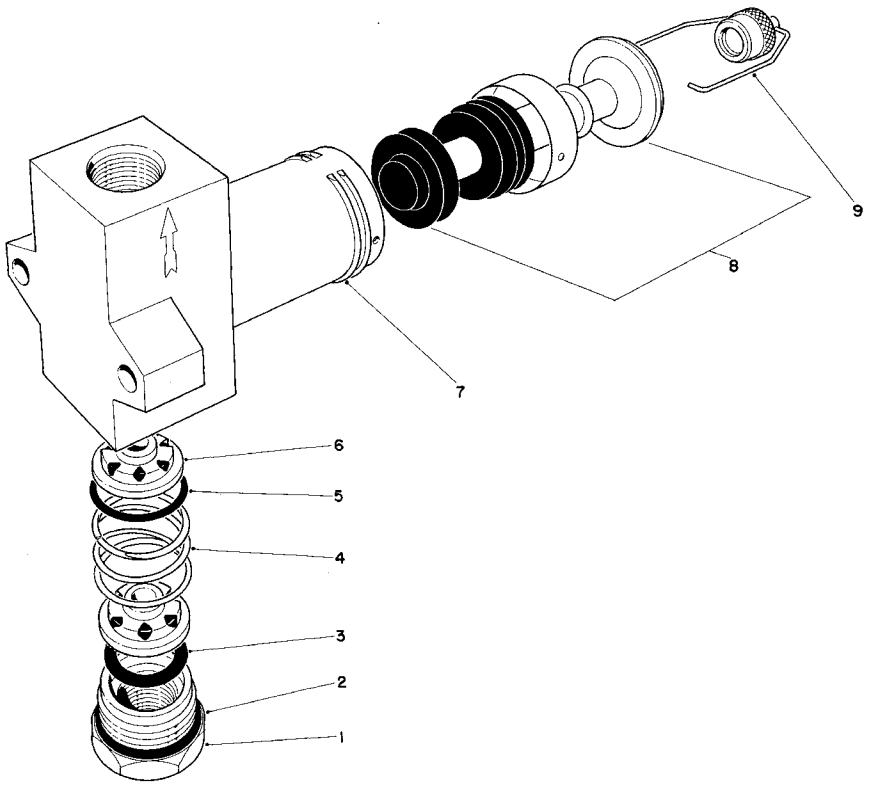
Ref. No.	Part No.	Description	No. Used
16	249-21	Clamp – Hook	1
17	32140-43	Screw	2
18	43-7020	Hose – Lower Radiator	1
19	43-3320	Foam – Radiator	2
20	304-46	Drain Cock	1
21	38-4600	Bar – Frame L.H.	1
22	43-4320	Hose Assembly – Cooler to Pump	1
23	3290-379	Cable Tie	2
24	44-9740	Fitting – .172 Orifice	1
25	2412-4	Clamp	1
26	43-3340	Grille – Sealing Plate	1
27	322-5	Capscrew	1
28	11-0590	Capscrew Self Tapping	2
29	33-2570	Radiator Assembly	1
30	43-3410	Grille	1
31	32103-2	Wing Nut	2



WATER SEPARATOR ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3290-357	Hex Nut Locking Flange	2
2	32128-20	Flanged Nut	1
3	43-5440	Pipe Plug	1
4	43-5410	Hose Fuel	1
5	2412-6	Clamp	5
6	353-781	Fitting – Water Separator	2
7	43-5430	Base Water Separator	1
8	29-4110	Hose	1
9	43-5420	Clamp – Water Separator	1
10	43-5470	Element Water Separator	1
11	43-5450	Plug, Drain Vent	2
12	43-5460	Washer, Drain & Vent Plug	2
13	3234-11	Hex. Hd. Capscrew Locking Flange	2

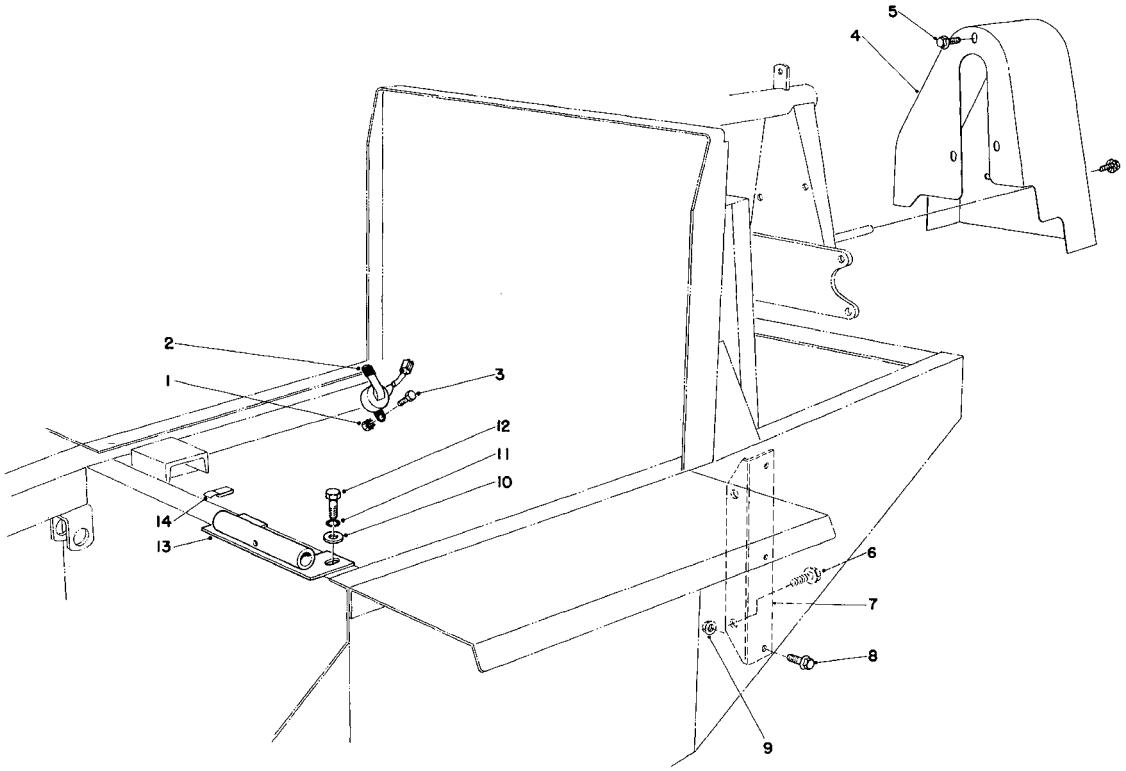
Ref. No.	Part No.	Description	No. Used
14	322-5	Capscrew	1
15	353-783	Fitting Pump	2
16	43-5760	Pump – Primer	1
17	3234-16	Capscrew	2
18	3290-378	Cable Tie	1
19	43-4220	Hose	1
20	2412-36	Clamp Worm Drive	1
21	32149-2	Locknut	2
22	3255-7	Lockwasher Ext. Tooth	2
23	321-6	Capscrew	2
24	3256-49	Washer	1
25	3253-17	Lockwasher	2
26	3217-26	Nut	2



PRIMER PUMP ASSEMBLY NO. 43-5760

Ref. No.	Part No.	Description	No. Used
1	43-5830	Nut – Primer Valve	1
2	43-5820	Seal – Valve Nut	1
3	43-5810	Seal – Valve	1
4	43-5800	Spring – Valve Retainer	1
5	43-5790	Seal – Valve	1

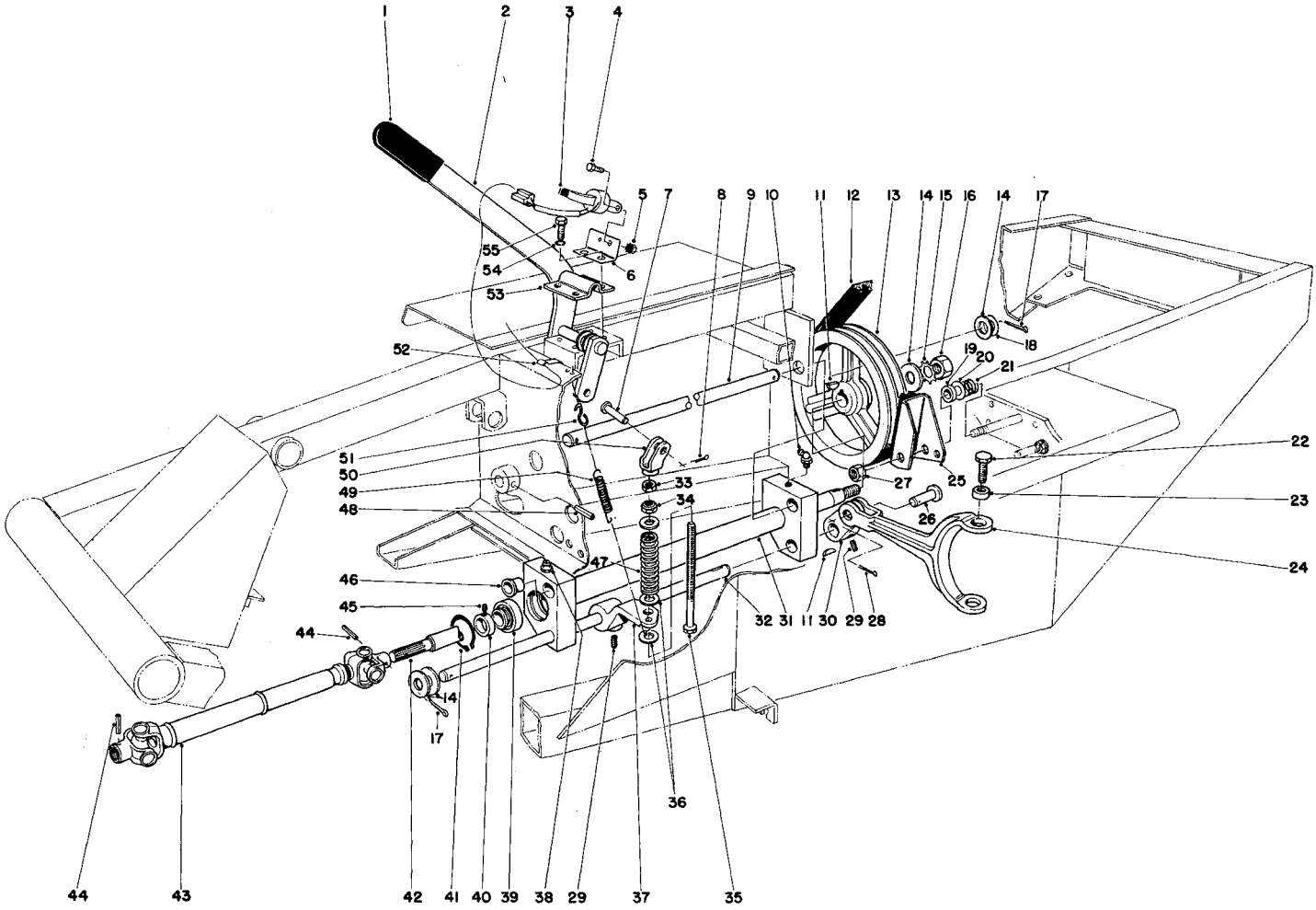
Ref. No.	Part No.	Description	No. Used
6	43-5780	Valve – Hand Primer	1
7	43-5770	Body – Hand Primer	1
8	42-6070	Plunger – Seal Assembly	1
9	43-5880	Clamp Screw & Wire Assembly	1



INTERLOCK ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3296-42	Locknut Nylon Insert	1
2	29-6930	Switch Arm	1
3	321-2	Capscrew	1
4	43-3900	Guard Fan Belt	1
5	3234-14	Capscrew	5
6	3234-6	Capscrew w/Locking Flange	2
7	43-3300	Bracket – Engine Support	2

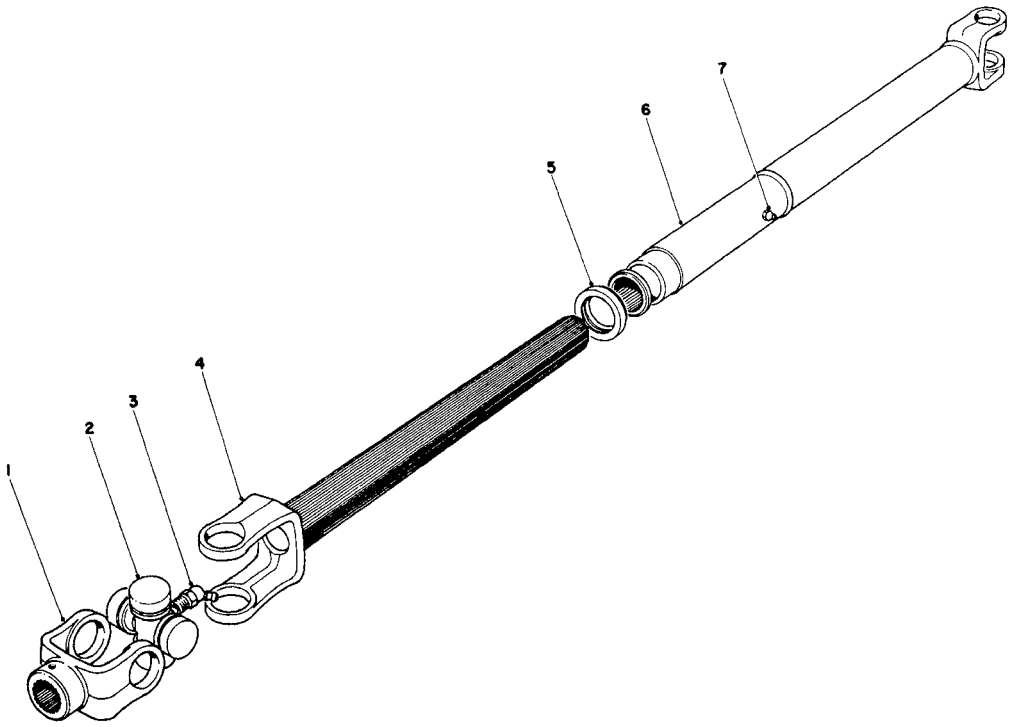
Ref. No.	Part No.	Description	No. Used
8	3234-11	Capscrew w/Locking Flange	6
9	3290-357	Nut w/Locking Flange	6
10	3256-23	Washer	1
11	3253-4	Lockwasher	2
12	322-5	Capscrew	2
13	27-9810	Seat Pivot	1
14	212-93	Wire Clip	2



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	2
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	23-1820	V-Belt Torque Team	1
13	21-0230	Pully P.T.O.	1
14	3256-28	Washer	3
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
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

Ref. No.	Part No.	Description	No. Used
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	43-5570	Arm, Actuator – P.T.O.	1
38	302-2	Grease Fitting	1
39	251-261	Ball Bearing	2
40	251-234	Lock Collar (Incl. Ref. #45)	2
41	32120-22	Ring Retaining	2
42	43-5540	Shaft P.T.O.	1
43	21-3090	Universal Joint	1
44	32121-34	Roll-Pin	2
45	3245-1	Set Screw	2
46	256-113	Flanged Bushing	4
47	21-0400	Spring – Compression	1
48	32121-9	Roll Pin	1
49	21-1830	Spring – Tension	1
50	43-5630	Yoke P.T.O.	1
51	5-0701	Spring – Anchor	1
52	212-93	Wire Clip	1
53	21-1600	Clamp P.T.O. Lever	1
54	3253-21	Lockwasher	4
55	32104-6	Hex Hd. Self Tapping Screw	4

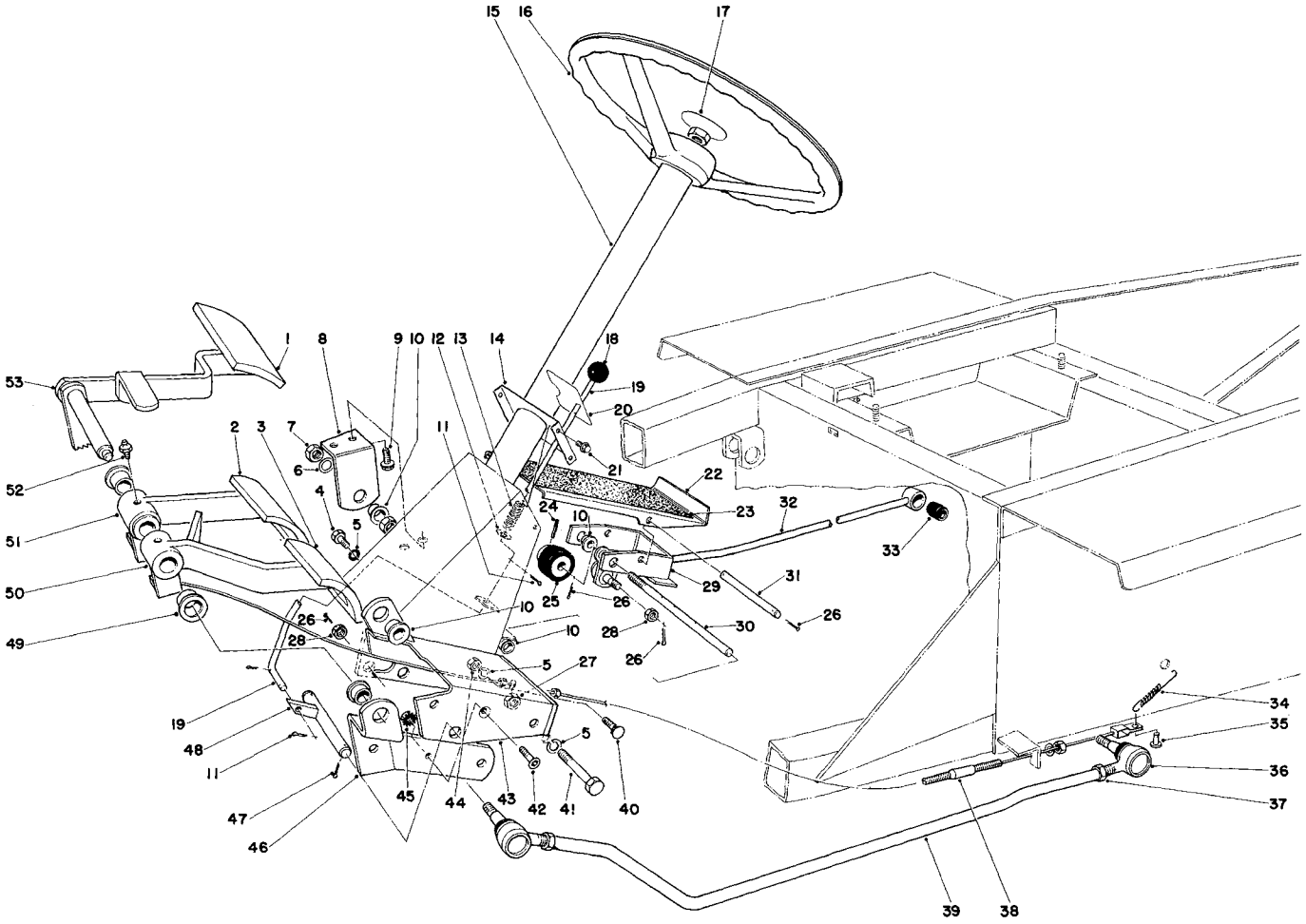


DRIVE SHAFT ASSEMBLY NO. 21-3090

Ref. No.	Part No.	Description	No. Used
1	21-5960	End Yoke	2
2	21-5970	U-Joint Kit	2
3	21-5980	Grease Fitting	2
4†		Slip Yoke Shaft	1

Ref. No.	Part No.	Description	No. Used
5	21-5990	Dust Cap Assembly	1
6	21-6020	Slip Yoke Tube	1
7	21-6010	Grease Fitting	1

†Not available as a service replacement part.

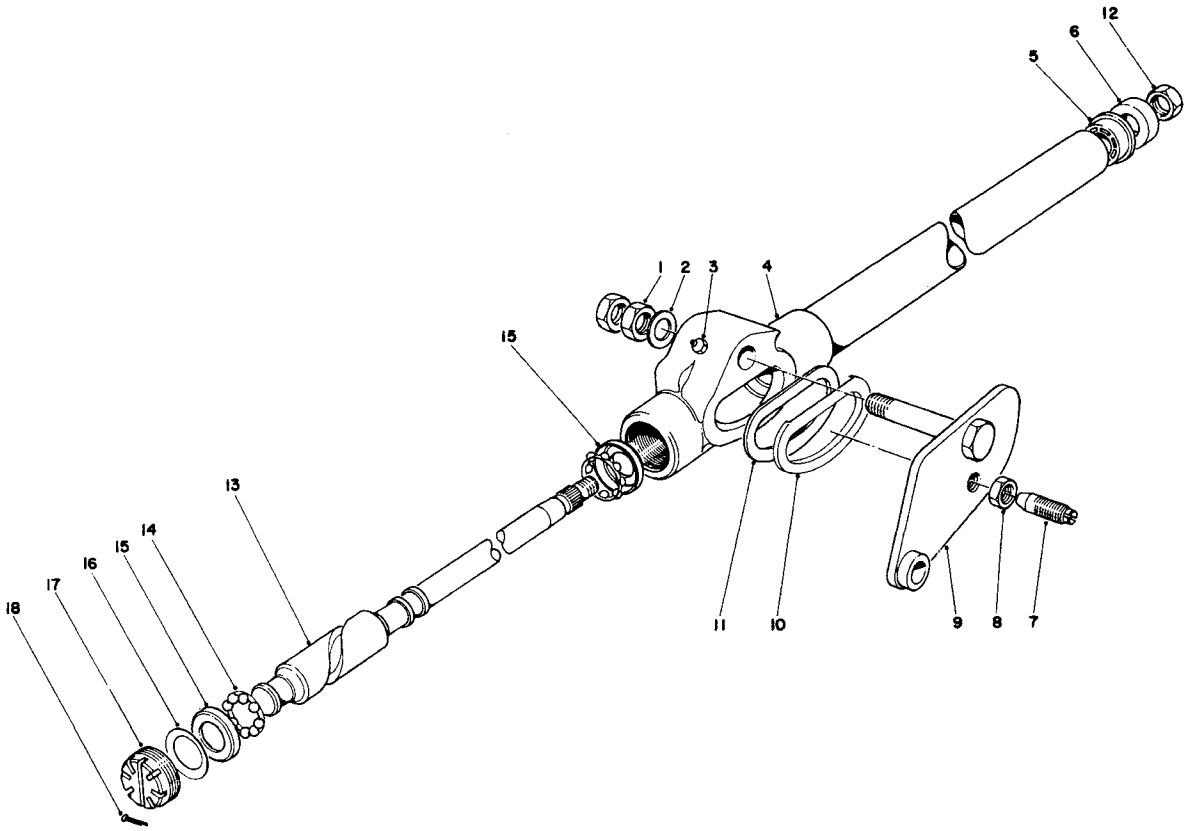


BRAKE & STEERING GEAR ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	7-3900	Pad Brake	1
2	27-7580	Pad Right Turn	1
3	27-7570	Pad Left Turn	1
4	323-6	Capscrew	3
5	3253-21	Lockwasher	7
6	3256-26	Flat Washer	1
7	3218-5	Jam Nut	2
8	21-2850	Pedal Mount R.H.	1
9	11-0590	Capscrew Self Tapping	2
10	256-156	Bushing	6
11	3272-5	Cotter Pin	3
12	3256-22	Flat Washer	1
13	3-3251	Compression Spring	1
14	27-9530	Support Steering Column	1
15	33-4350	Steering Gear Assembly	1
16	24-2000	Steering Wheel	1
17	24-2090	Cap Steering Wheel	1
18	233-17	Knob	1
19	27-7660	Rod Brake Latch	1
20	27-7300	Decal Parking Brake	1
21	32144-10	Screw Self Tapping	4
22	28-5190	Pedal Traction	1
23	28-5130	Pad Pedal	1
24	32121-16	Roll Pin	1
25	28-5220	Friction Wheel	1
26	3272-6	Cotter Pin	7
27	32146-2	Locknut	2

Ref. No.	Part No.	Description	No. Used
28	32136-4	Slotted Nut	3
29	28-5160	Pivot Bracket (Incl. Ref.#10)	1
30	28-5210	Shaft Traction Pedal	1
31	28-5240	Pin Traction Pedal	1
32	23-2240	Pump Control Rod	1
33	23-2270	Rubber Bushing	1
34	3-7243	Spring Extension	2
35	283-30	Clevis Pin	2
36	21-0140	Socket Ass'y. (Incl. Ref. #28)	3
37	3220-5	Jam Nut	3
38	21-3380	Brake Cable L.H.	1
*	21-3370	Brake Cable R.H.	1
39	42-6060	Tube Front Steering	1
40	3231-21	Carriage Bolt	2
41	323-13	Capscrew	2
42	3274-47	Hex Socket Flat Hd. Capscrew	1
43	27-7590	Brake Mount	1
44	3217-7	Nut	2
45	32149-2	Nut	1
46	27-9270	Brake Pivot Shaft Mount	1
47	3272-6	Cotter Pin	2
48	27-7640	Brake Latch Shaft	1
49	256-10	Bushing	4
50	27-7490	Brake Pedal L.H. (Incl. Ref.#49)	1
51	27-7510	Brake Pedal R.H. (Incl. Ref.#49)	1
52	302-5	Grease Fitting	2
53	27-8550	Parking Brake Pedal	1

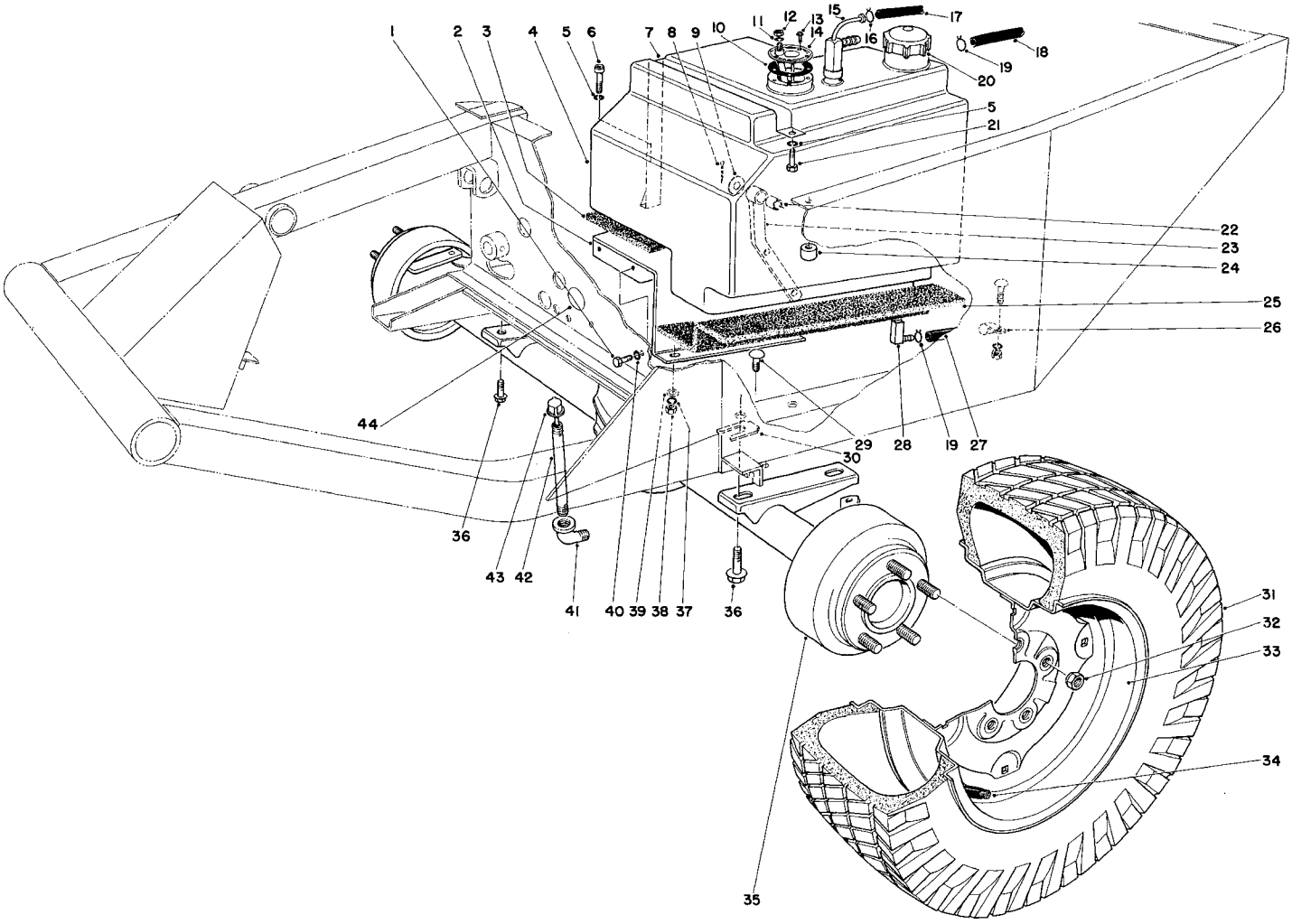
*Not Illustrated



STEERING GEAR ASSEMBLY NO. 33-4350

Ref. No.	Part No.	Description	No. Used
1	3220-7	Jam Nut	2
2	22-8310	Washer	1
3	302-16	Grease Fitting	1
4	33-4430	Housing & Jacket Tube Assy.	1
5	21-9270	Column Bearing	1
6	21-9260	Dust Cover	1
7	22-8300	Lever Stud	1
8	3219-10	Jam Nut	1
9	22-8280	Steering Lever & Bolt Assembly	1

Ref. No.	Part No.	Description	No. Used
10	22-8470	Seal Retainer	1
11	22-8460	Seal	1
12	3220-6	Jam Nut	1
13	21-9280	Cam & Tube Assembly	1
14	21-9170	Retainer & Ball Assembly	2
15	21-9160	Ball Cup	2
16	21-9150	Belleville Washer	1
17	21-9130	Adjusting Plug	1
18	3272-9	Cotter Pin	1

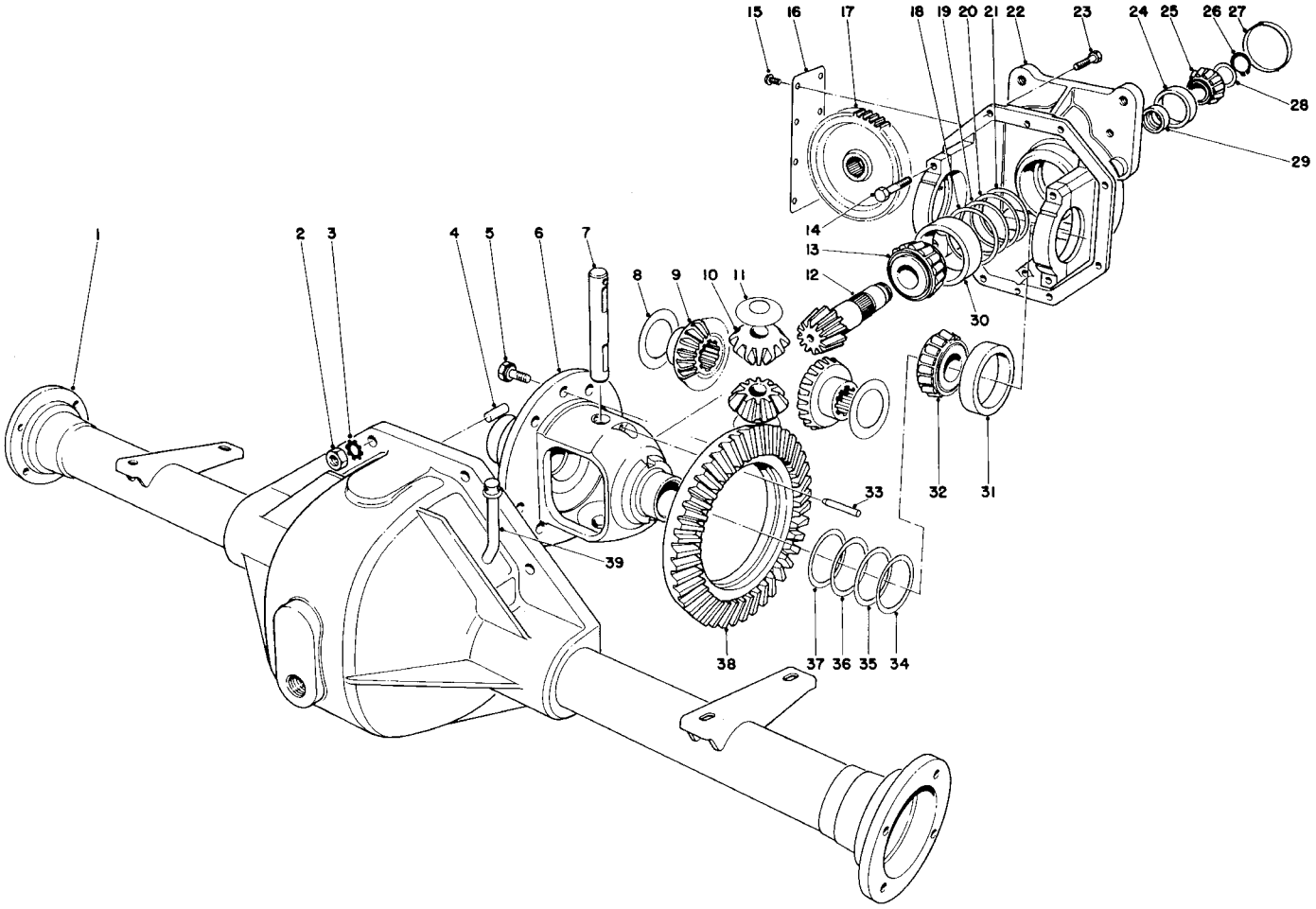


FRONT AXLE & FUEL TANK ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	32104-6	Self Tapping Screw	2
2	23-2100	Gas Tank Base	1
3	21-3600	Foam – Tank Support	1
4	43-4150	Fuel Tank (Incl. Ref. #15 & 28)	1
5	3253-3	Lockwasher	2
6	3274-51	Capscrew Socket Head	1
7	37-9550	Strap – Gas Tank	1
8	3272-13	Cotter Pin	1
9	10-8110	Thrust Washer	1
10	18-2380	Gasket	1
11	3253-17	Lockwasher	1
12	3219-14	Nut	1
13	32144-53	Screw – Thread Forming	5
14	24-0160	Sender Fuel Level	1
15	43-4160	Fitting Return & Vent	1
16	2412-79	Clamp	1
17	43-4230	Hose Return	1
18	43-5690	Hose – Vent Gas Tank	1
19	2412-6	Clamp	2
20	37-9540	Gas Cap	1
21	321-6	Capscrew	1
22	256-237	Bushing	1
23	23-2080	Steering Link (Incl. Ref. #22)	1

Ref. No.	Part No.	Description	No. Used
24	22-7810	Spacer	1
25	21-3610	Foam – Tank Support	1
26	2412-41	Clamp	1
27	43-4210	Hose Fuel	1
28	43-4190	Fitting Assembly	1
29	3230-2	Carriage Bolt	3
30	42-6080	Shim – Axle	A/R
31	231-101	Tire	2
32	23-7270	Wheel Nut	10
33	217-105	Rim	2
34	232-27	Valve Stem w/Cap	2
35	43-7630	Axle	1
36	3234-15	Hex Hd. Capscrew w/Locking Flange	4
37	3253-4	Lockwasher	3
38	3217-6	Nut	3
39	3256-23	Washer	2
40	3253-21	Lockwasher	2
41	2811-9	Street Elbow	1
42	289-37	Pipe Nipple	1
43	23-5180	Dipstick	1
44	11-6350	Decal Oil	1
*	231-90	Tube, Inner	2

*Not Illustrated

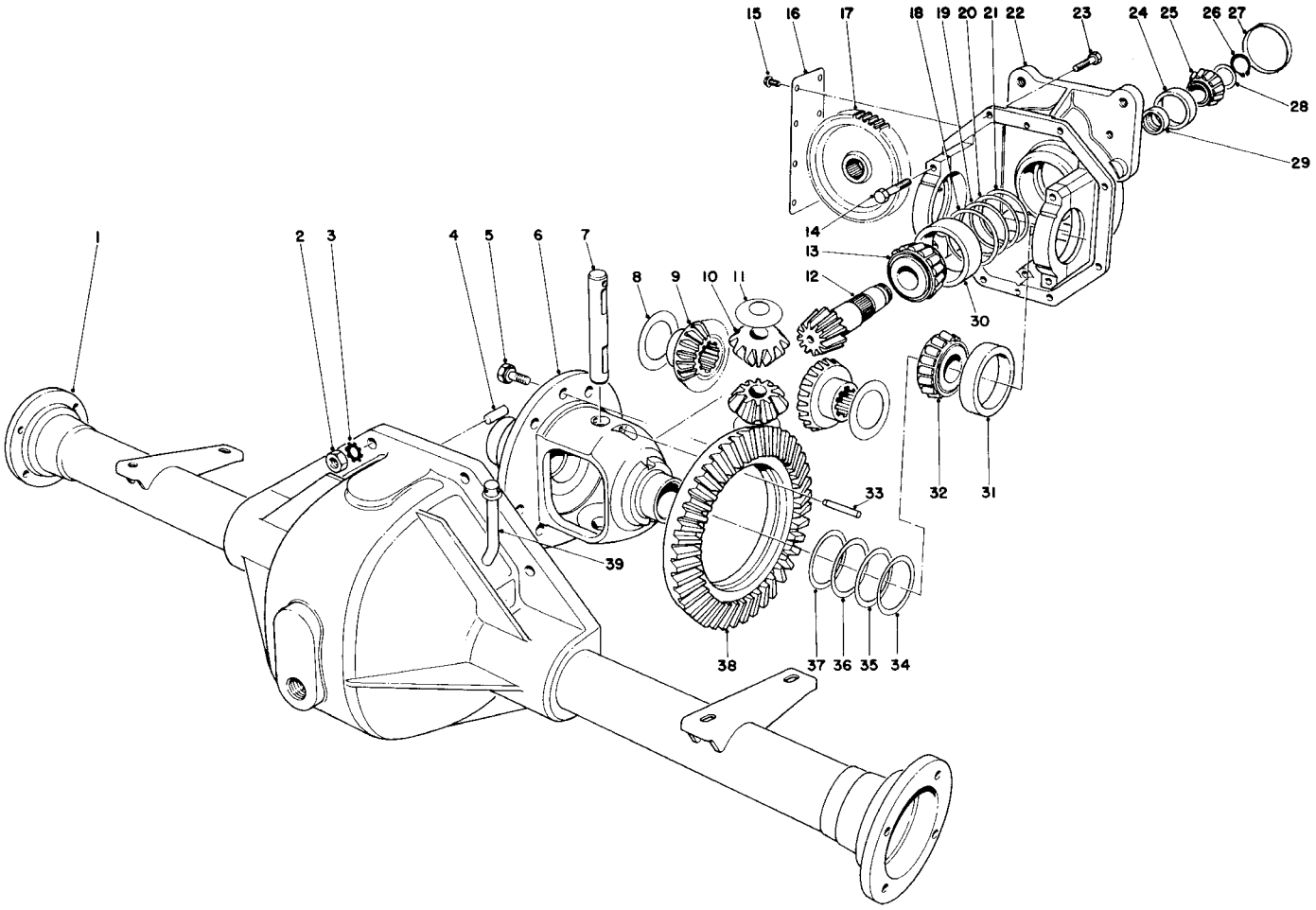


DIFFERENTIAL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	43-6840	Lower Housing	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 Gear Side	2
10	21-7690	Pinion Gear	2
11	21-7730	Thrust Washer	2
12		Drive Pinion (Incl. Ref. #38)	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	Differential–Adjust. Shim .003	A/R
19	43-6711	Differential–Adjust. Shim .005	A/R
20	43-6712	Differential–Adjust. Shim .010	A/R
21	43-6713	Differential–Adjust. Shim .030	A/R
22	43-6540	Upper Housing (Incl. Ref. #14)	1
23	3210-7	Capscrew	8

Ref. No.	Part No.	Description	No. Used
24	254-90	Bearing Cup	1
25	254-91	Bearing Cone	1
26	43-6550	Snap Ring	1
27	21-7850	Cup 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
*	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	43-6750	Tapered Roller Bearing Cup	1
31	254-66	Cup – Tapered Bearing	2
32	254-65	Cone – Tapered Bearing	2
33	32121-15	Roll Pin	1

*Not Illustrated

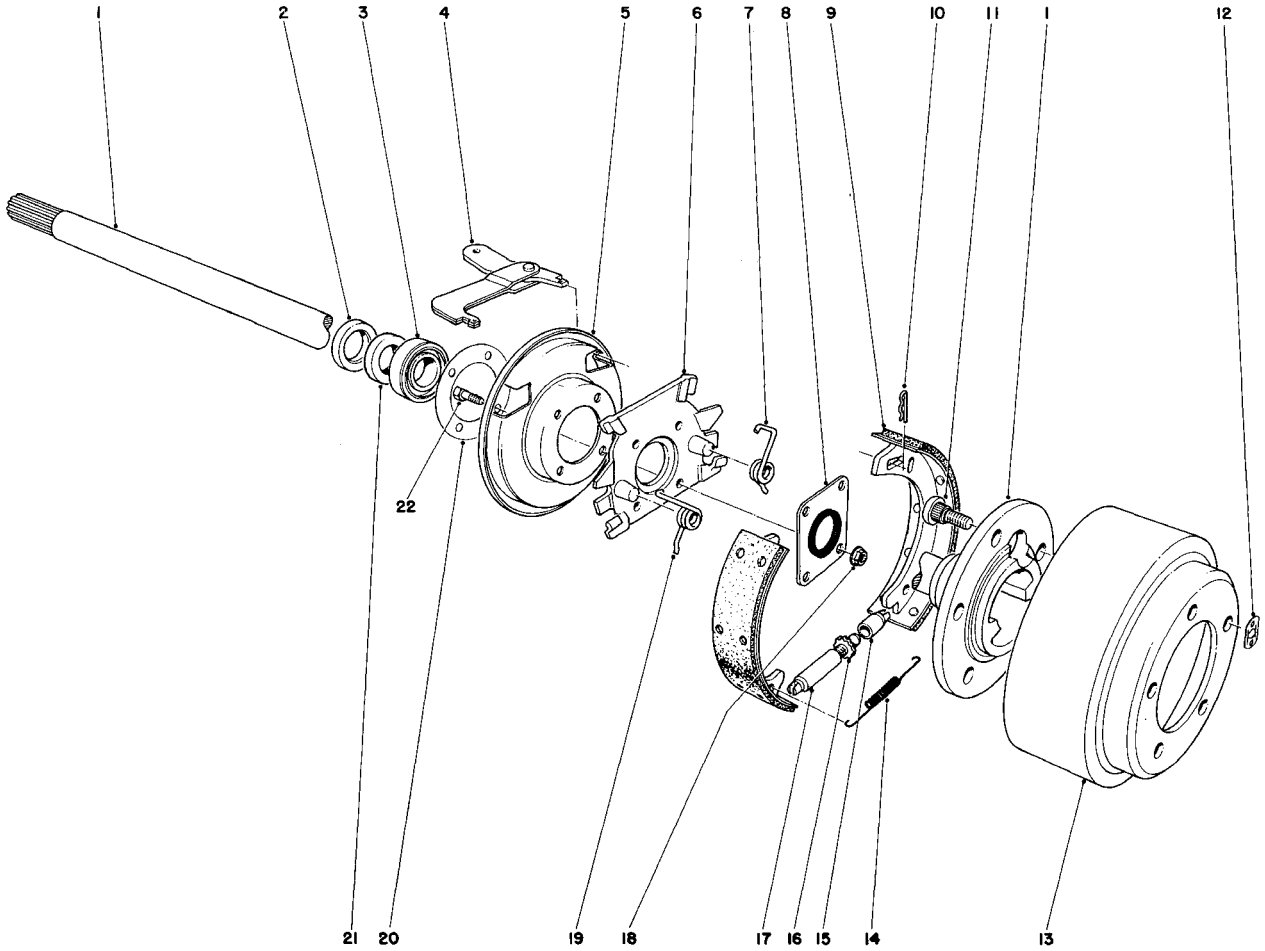


DIFFERENTIAL ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
34	21-8090	Differential Adjust. Shim .003	A/R
35	21-8100	Differential Adjust. Shim .005	A/R
36	21-8110	Differential Adjust. Shim .010	A/R
37	21-8120	Differential Adjust. Shim .030	A/R

Ref. No.	Part No.	Description	No. Used
38		Ring Gear	1
39	21-8230	Vent Tube Assembly	1
*	43-6510	Gear & Pinion Assembly (Incl. Ref. #12 & 38)	1

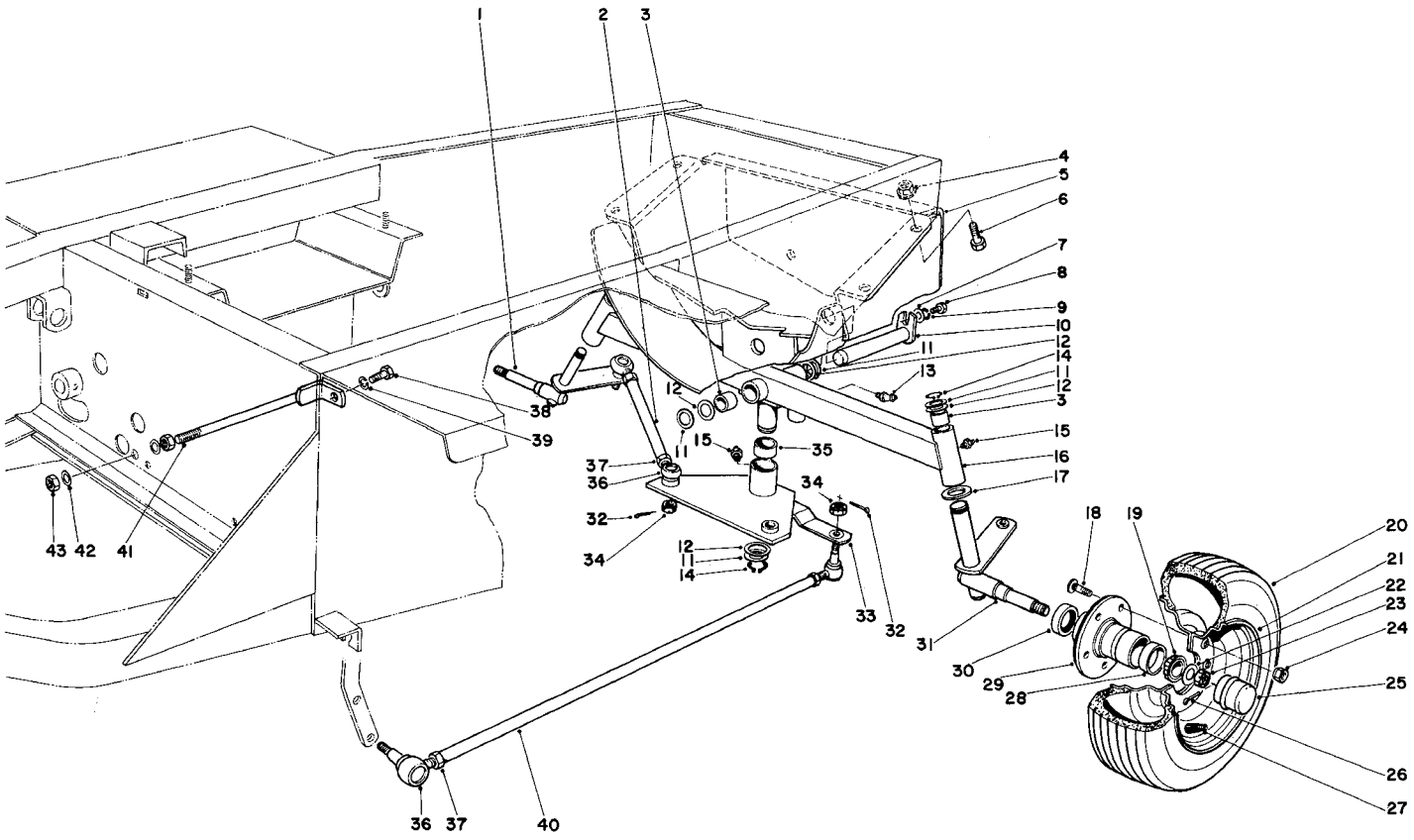
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BRAKE ASSEMBLY

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	1
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	24-8840	Ring – Wheel Bearing	2
22	28-0660	Capscrew	8

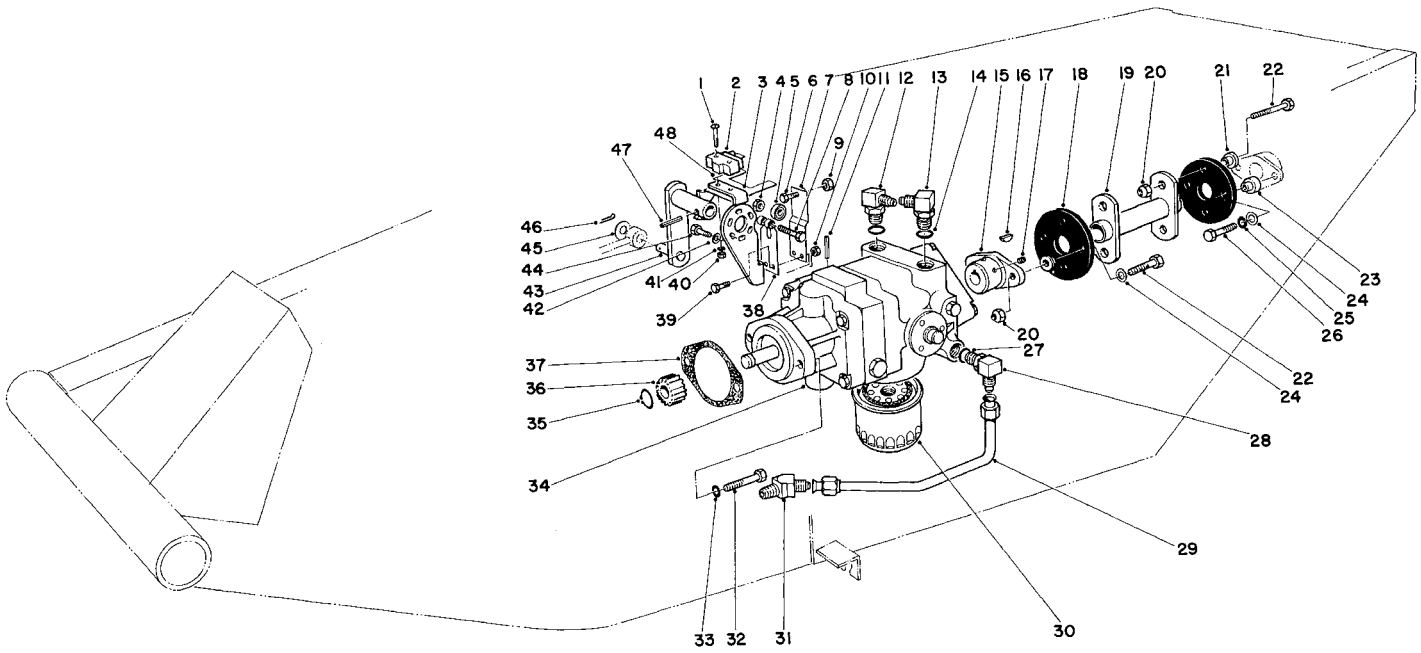


REAR AXLE & WHEEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	39-8040	Spindle Assembly R.H.	1
2	21-2000	Tie Rod Assembly	2
3	3-0348	Bushing	6
4	32128-23	Locknut Flanged	4
5	43-3440	Axle Support	1
6	3234-6	Hex. Hd. Capscrew W/Flange	4
7	3256-23	Washer	1
8	322-3	Capscrew	1
9	3253-4	Lockwasher	1
10	43-3480	Rear Axle Pin	1
11	5-1226	Washer	A/R
12	10-8110	Thrust Washer	5
13	302-11	Grease Fitting	1
14	32151-36	Ring – Retaining	3
15	302-5	Grease Fitting	3
16	33-2890	Rear Axle (Incl. Ref. #3)	1
17	256-121	Thrust Bushing	2
18	10-6830	Drive Stud	10
19	254-94	Bearing Cone	4
20	231-105	Tire	2
21	217-106	Wheel	2
22	3256-28	Washer	2
23	32136-5	Nut – Slotted	2
24	242-50	Wheel Nut	10
25	241-119	Dust Cap	2

Ref. No.	Part No.	Description	No. Used
26	3272-13	Cotter Pin	2
27	232-27	Valve Stem W/Cap	2
28	254-72	Bearing Cup	4
29	21-2820	Hub – Wheel (Incl. 18 & 28)	2
30	253-129	Closure	2
31	39-8050	Spindle Assembly L.H.	1
32	3272-6	Cotter Pin	6
33	46-8830	Rear Steering Pivot (Incl. Ref. #35)	1
34	32136-4	Slotted Nut	6
35	256-242	Bushing	2
36	21-0140	Socket Assembly R.H. Thread (Incl. Ref. #34)	3
*	21-0150	Socket Assembly L.H. Thread (Incl. Ref. #34)	3
37	3220-5	Jam Nut R.H. Thread	3
*	3220-12	Jam Nut L.H. Thread	3
38	323-6	Capscrew	1
39	3253-21	Lockwasher	1
40	43-4280	Tube – Rear	1
41	24-9830	Axle Support	1
42	3256-6	Washer	2
43	3217-9	Nut	2
*	231-91	Tire Inner Tube	2

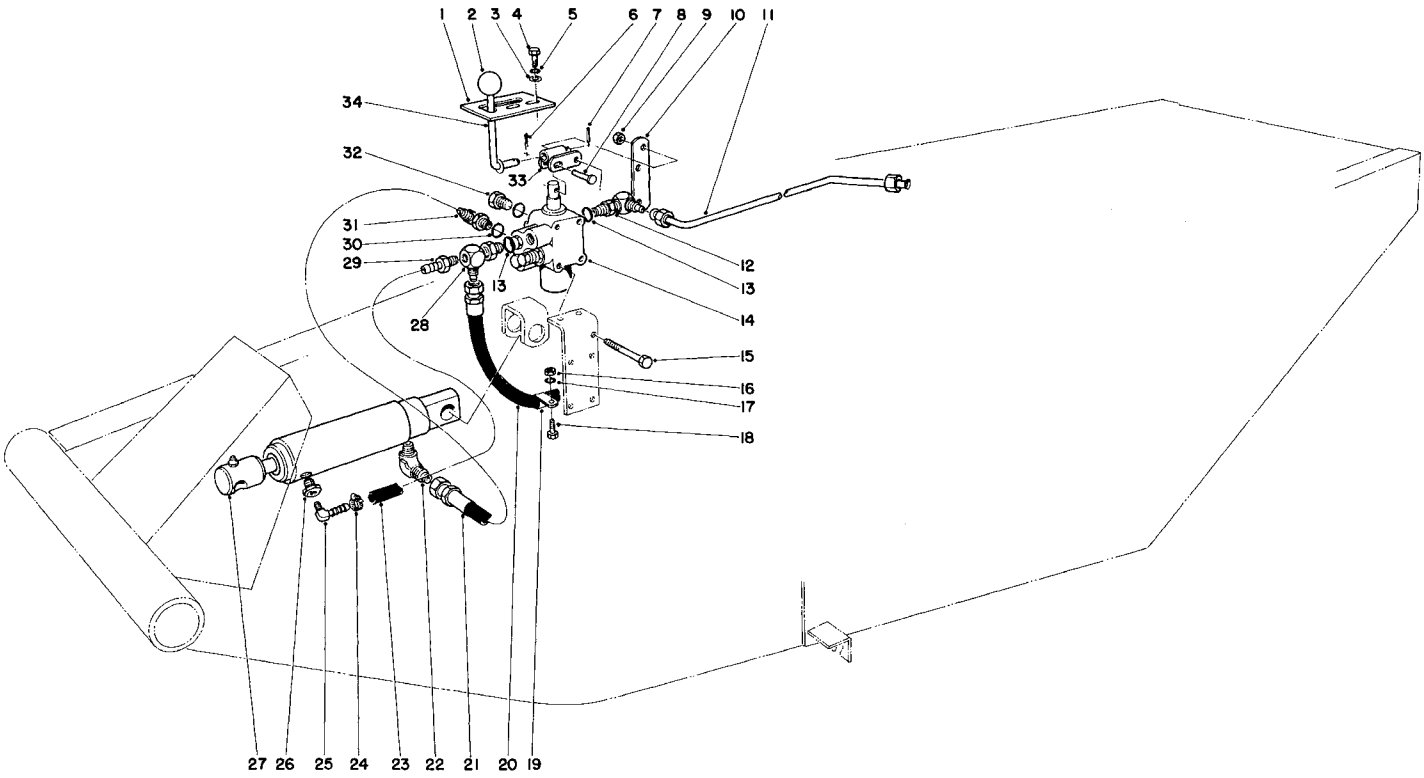
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HYDROSTATIC TRANSMISSION

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	2
11	32121-6	Roll Pin	1
12	353-511	Elbow	1
13	353-374	Elbow	1
14	237-42	O-Ring	2
15	33-4380	Pump Hub	1
16	3257-32	Woodruff Key	1
17	3245-1	Socket Hd. Set Screw	2
18	44-2230	Rubber Coupling	2
19	46-6390	Drive Coupling	1
20	32152-1	Locknut	6
21	27-6600	Spacer Rubber Coupling	6
22	322-6	Capscrew	6
23	27-6590	Spacer Rubber Coupling	2
24	3256-3	Washer	4

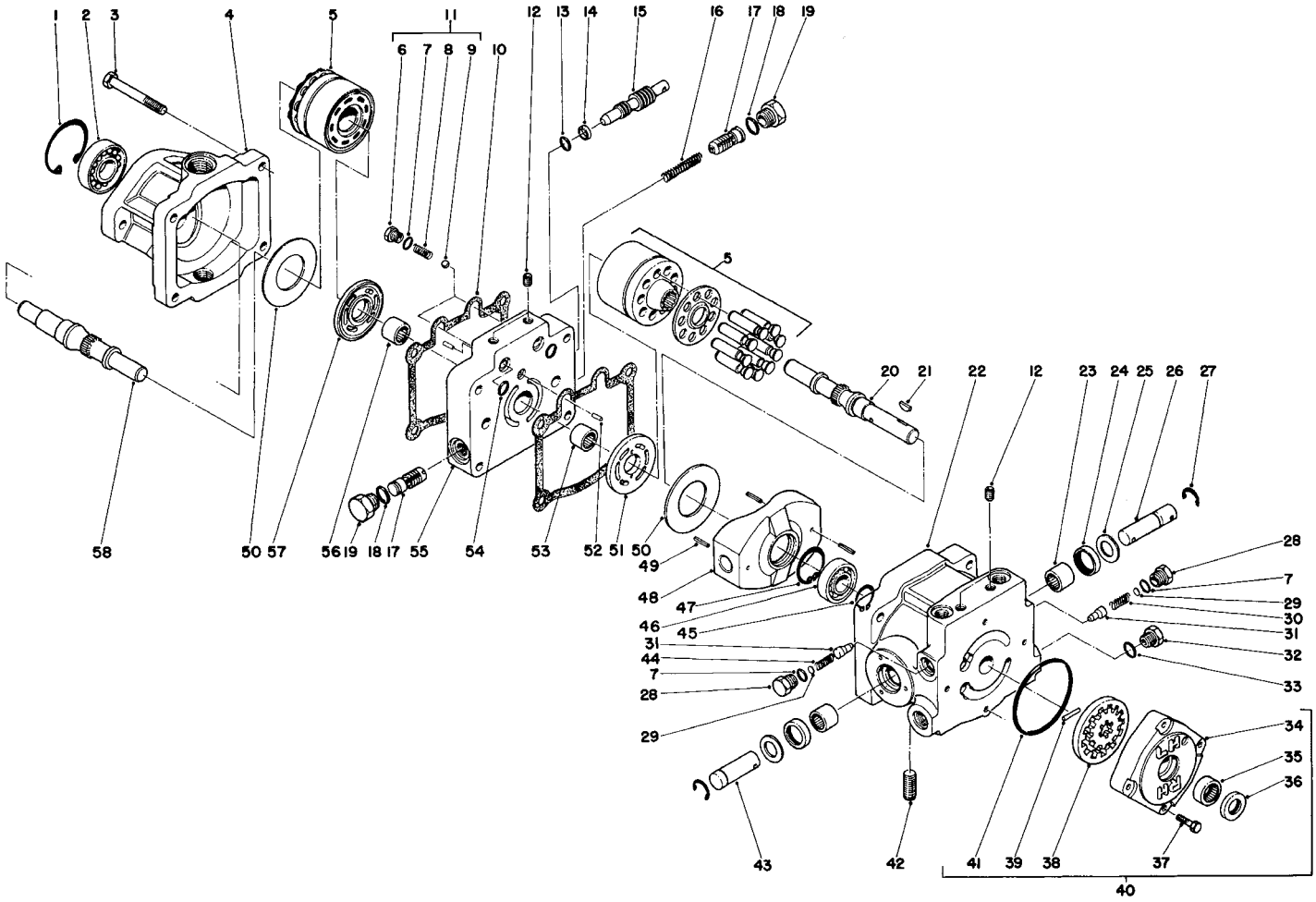
Ref. No.	Part No.	Description	No. Used
25	3253-4	Lockwasher	2
26	322-8	Capscrew	2
27	237-80	O-Ring	1
28	353-370	Elbow	1
29	23-1900	Tube Assembly Axle to Pump	1
30	23-2300	Oil Filter	1
31	353-535	Elbow	1
32	323-7	Capscrew	2
33	3253-21	Lockwasher	2
34	46-8390	Transmission – Inline	1
35	32120-72	Ring – Retaining External	1
36	23-4810	Gear Transmission Output	1
37	41-8760	Gasket Transmission	1
38	29-6150	Leaf Spring	1
39	321-4	Capscrew	2
40	3217-16	Nut	2
41	3254-9	Lockwasher	2
42	3255-7	Washer – Lock	3
43	28-9570	Pump Lever	1
44	32104-42	Hex. Hd. Thread Cutting Screw	3
45	3256-6	Washer	1
46	3272-10	Cotter Pin	1
47	32121-24	Roll Pin	1
48	46-8810	Stop – Leaf Spring	1



VALVE & CYLINDER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	21-8640	Latch – Valve Lever	1
2	233-21	Knob	1
3	3256-22	Washer	2
4	321-4	Capscrew	2
5	3253-3	Lockwasher	2
6	3272-6	Cotter Pin	1
7	32121-73	Slotted Spring Pin	1
8	283-17	Pin	1
9	3296-42	Locknut	5
10	21-9010	Pivot Mount – Valve Lever	1
11	23-1880	Tube Pressure Line	1
12	353-374	Fitting 90° Elbow	1
13	237-42	O-Ring	2
14	43-1710	Valve Assembly	1
15	321-23	Capscrew	5
16	3217-7	Nut	1
17	3253-21	Lockwasher	1

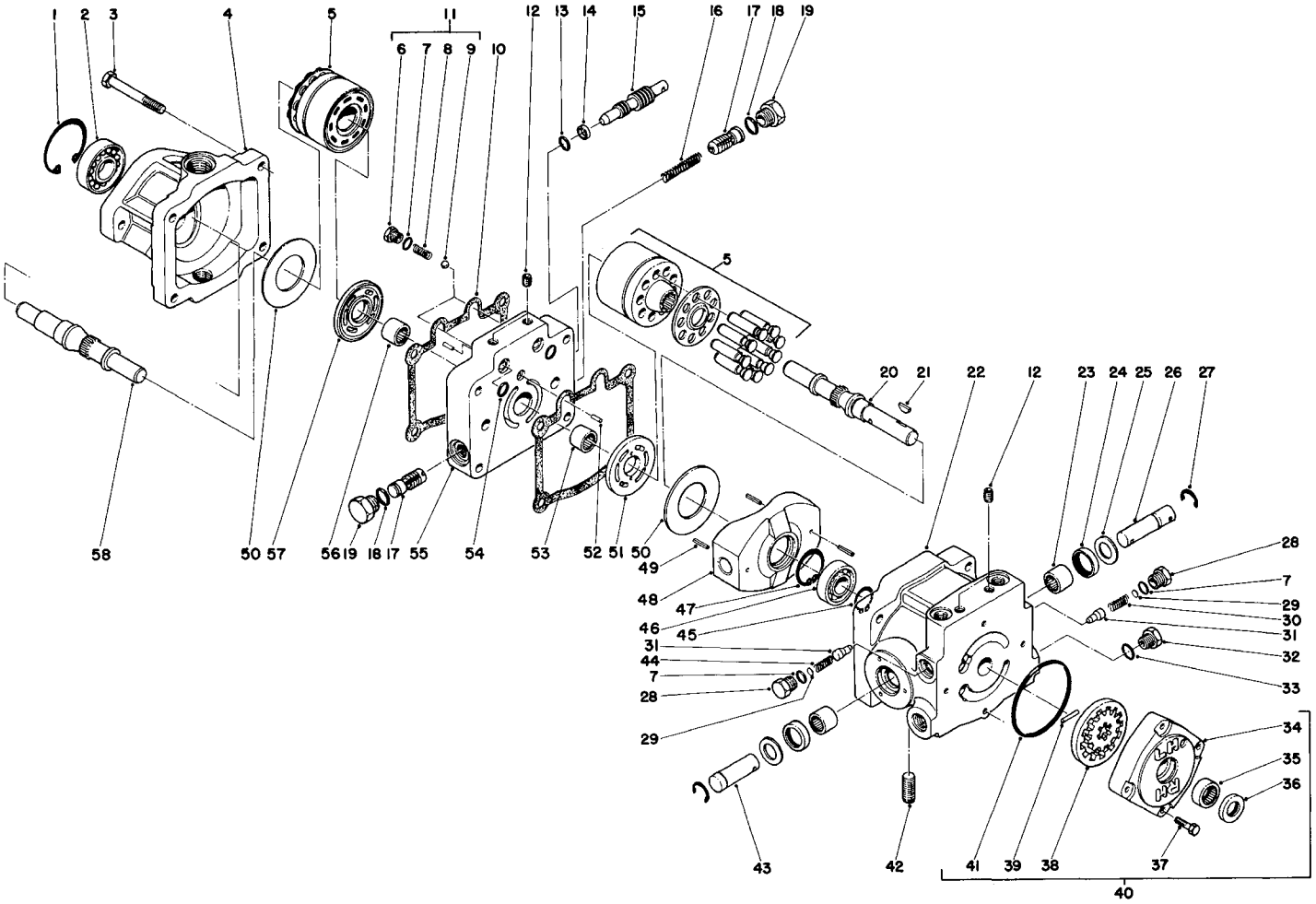
Ref. No.	Part No.	Description	No. Used
18	323-6	Capscrew	1
19	2412-4	Clamp	1
20	43-4310	Hose – Valve to Cooler	1
21	21-8580	Hose – Valve to Cylinder	1
22	5-6560	Elbow .078 Orifice	1
23	6-1190	Hose	1
24	2412-36	Clamp	2
25	304-75	Barb 90° Fitting	1
26	304-97	Reducer Bushing	1
27	21-0390	Hydraulic Cylinder	1
28	21-4940	Fitting Assembly	1
29	304-73	Barb Straight Fitting	1
30	237-78	O-Ring	2
31	353-375	Fitting 90° Elbow	1
32	353-512	Plug	1
33	21-8590	Valve Lever Link	1
34	21-8620	Valve Lever	1



TRANSMISSION ASSEMBLY (46-8390)

Ref. No.	Part No.	Description	No. Used
1	32120-8	Retaining Ring	1
2	251-263	Ball Bearing	1
3	323-13	Capscrew	4
4	25-2360	Motor Housing	1
5	25-2600	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	25-2400	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

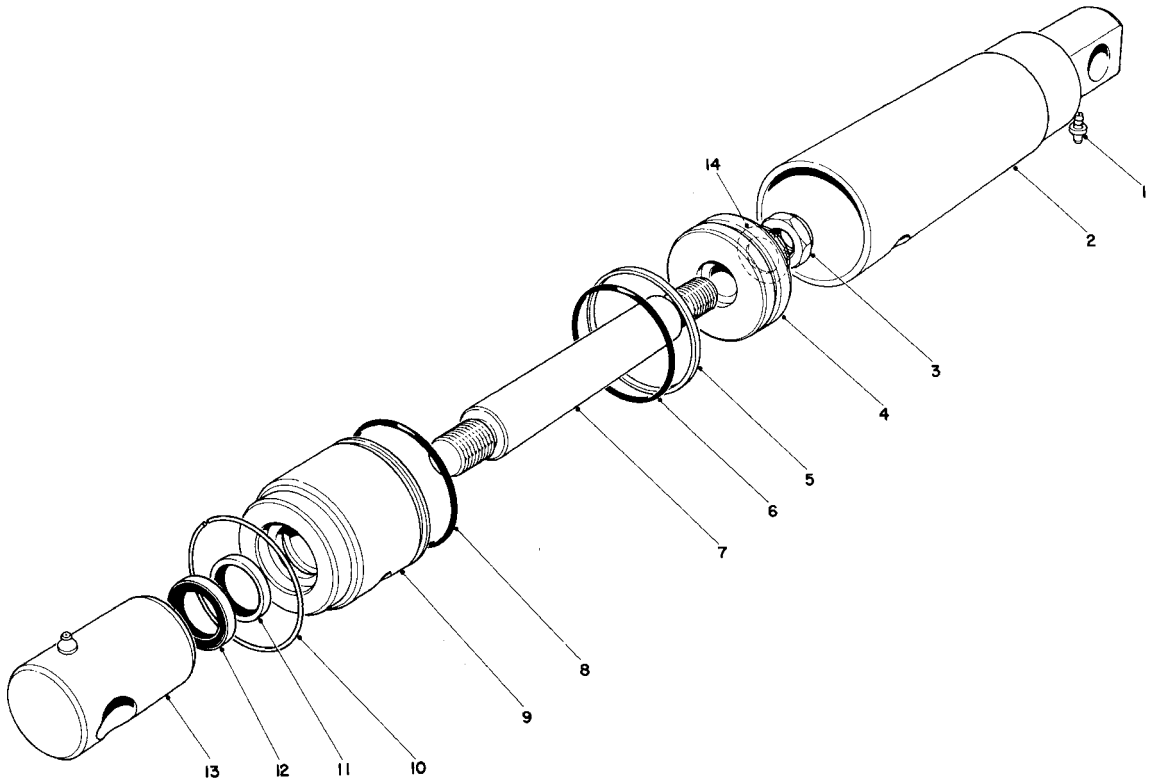
Ref. No.	Part No.	Description	No. Used
17	25-2410	Accel. Valve Assembly	2
18	237-79	O-Ring	2
19	353-550	Hex. Hd. Plug	2
20	36-5370	Pump Shaft	1
21	3257-32	Woodruff Key	1
22	25-2520	Pump Housing	1
23	252-82	Needle Bearing	2
24	25-3210	Lip Seal	2
25	25-2510	Flat Washer	2
26	25-2580	Trunnion Shaft	1
27	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



TRANSMISSION ASSEMBLY (46-8390) (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	25-2540	Gerator 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	25-2660	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	25-3300	Needle Bearing	1
54	237-30	O-Ring	2
55	25-2420	Center Section	1
56	46-8400	Needle Bearing	1
57	25-2390	Motor Valve Plate	1
58	46-8410	Motor Shaft	1

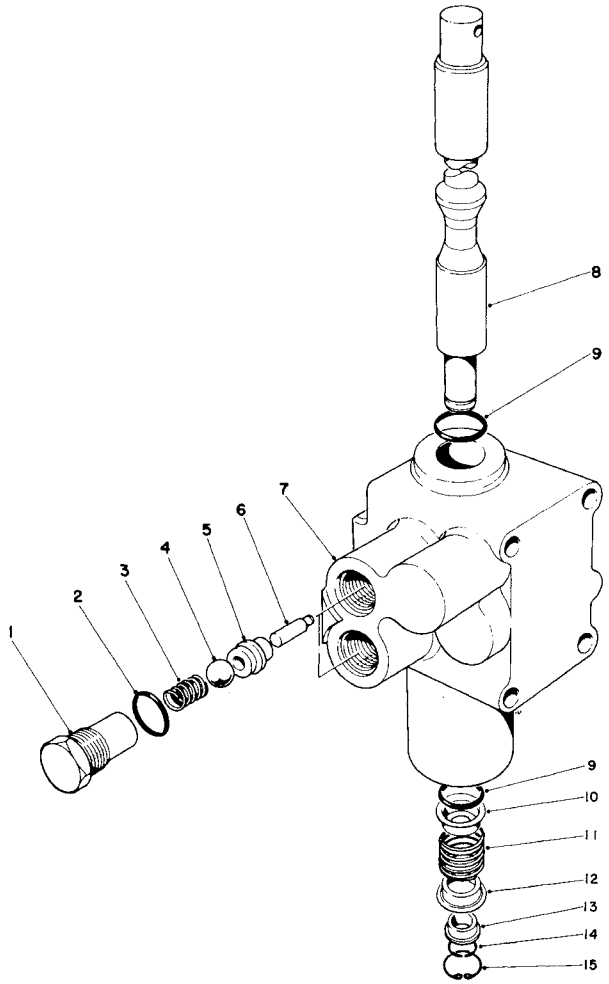


HYDRAULIC CYLINDER ASSEMBLY NO. 21-0390

Ref. No.	Part No.	Description	No. Used
1	302-22	Grease Fitting	2
2	21-9040	Barrel Assembly	1
3	3296-15	Locknut	1
4	21-9080	Piston	1
5		Slipper Ring	1
6		O-Ring	1
7	21-9030	Piston Rod	1
8		O-Ring	1

Ref. No.	Part No.	Description	No. Used
9	21-9070	Bearing	1
10		Lock Ring	1
11		Seal	1
12		Seal Wiper	1
13	21-9060	Rod End	1
14	3-6498	Washer Thrust	1
*	21-9100	Seal Repair Kit (Incl. Ref. 5-6, 8 & 10-12)	1

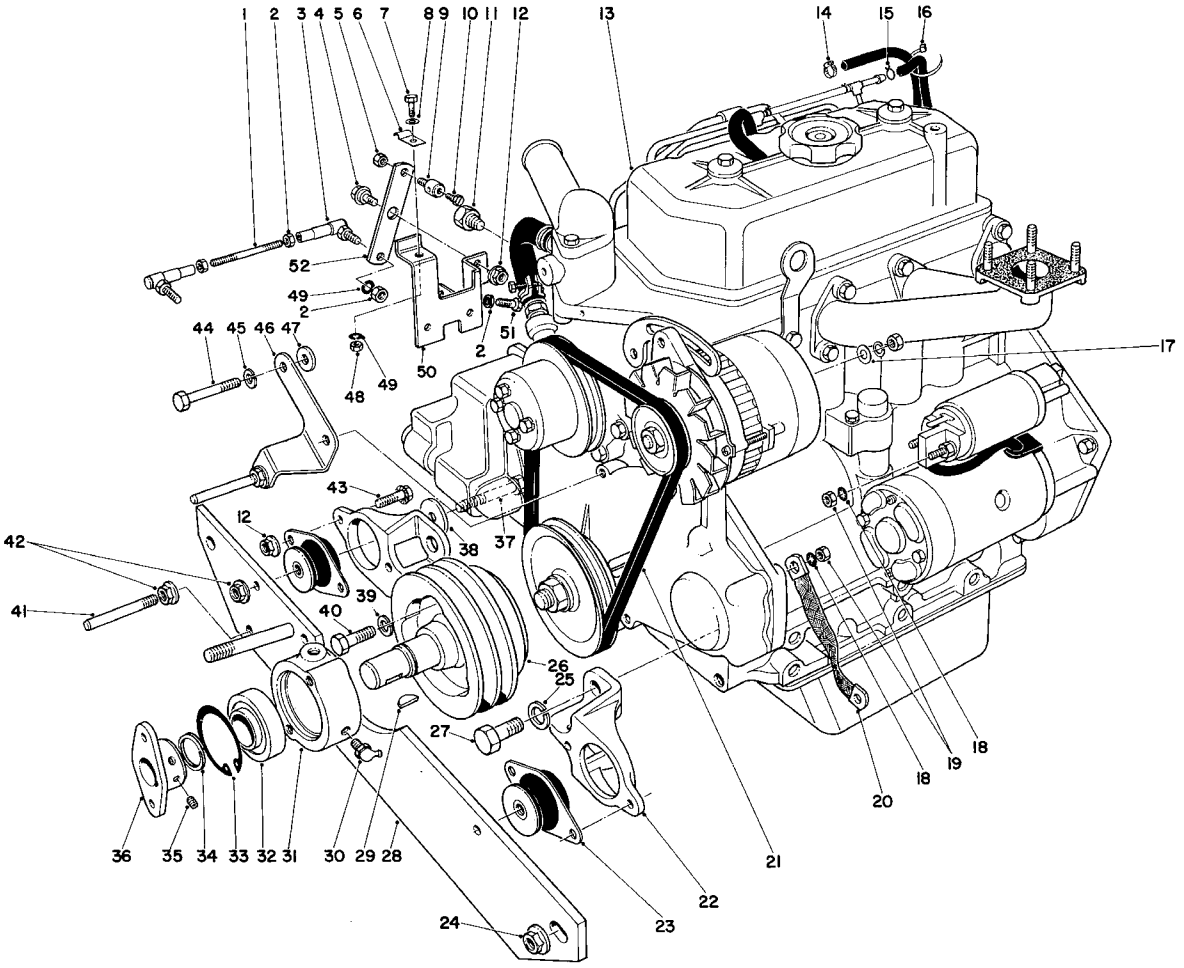
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CONTROL VALVE ASSEMBLY NO. 43-1710

Ref. No.	Part No.	Description	No. Used
1	22-8330	Plug	2
2	237-42	O-Ring	2
3	22-8340	Spring	2
4	22-8350	Ball	2
5	22-8370	Seat – Check Valve	2
6	22-8360	Pin – Cam	2
7	43-1730	Body	1
8	22-8420	Spool	1

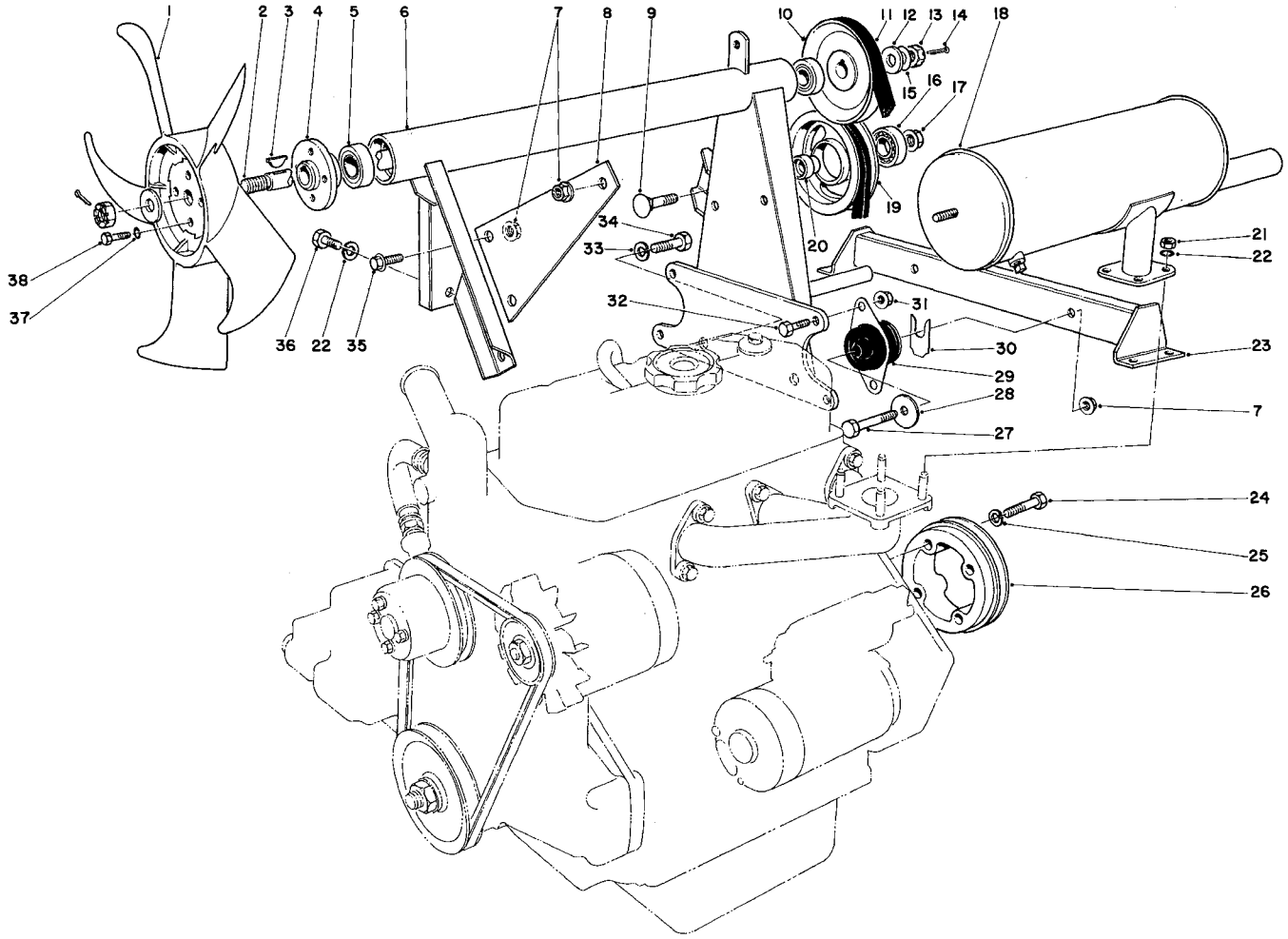
Ref. No.	Part No.	Description	No. Used
9	22-8500	O-Ring	2
10	22-8380	Spring Retainer	1
11	22-8410	Spring	1
12	22-8390	Spring Retainer	1
13	22-8400	Spacer Float	1
14	22-8480	Spring Ring Spool	1
15	22-8490	Snap Ring	1



ENGINE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	43-3770	Link – Throttle	1
2	3219-1	Nut	5
3	18-1720	Ball Joint Assembly	2
4	37-8770	Shoulder Bolt	1
5	3296-20	Nut-Lock, Nylon Insert	1
6	2412-31	Clamp – Bodine	1
7	321-4	Capscrew	1
8	3256-22	Washer	1
9	43-3780	Swivel – Throttle Control	1
10	25-8640	Machine Screw	1
11	43-1940	Adapter – Temp. Gauge	1
12	32128-20	Locknut w/Flange	5
13	221-695	Engine	1
14	2412-36	Clamp Worm Drive	1
15	2412-79	Clamp	1
16	3290-378	Cable Tie	1
17	5-3637	Washer	1
18	3254-2	Lockwasher Int. Tooth	3
19	42-9580	Nut	2
20	18-2770	Ground Strap	1
21	42-9100	Belt Fan	1
22	44-0240	Engine Mount	2
23	44-5240	Engine Mount – Rubber	2
24	32128-23	Locknut w/Flange	2
25	43-5950	Lockwasher	4
26	43-3510	Pulley Engine	1

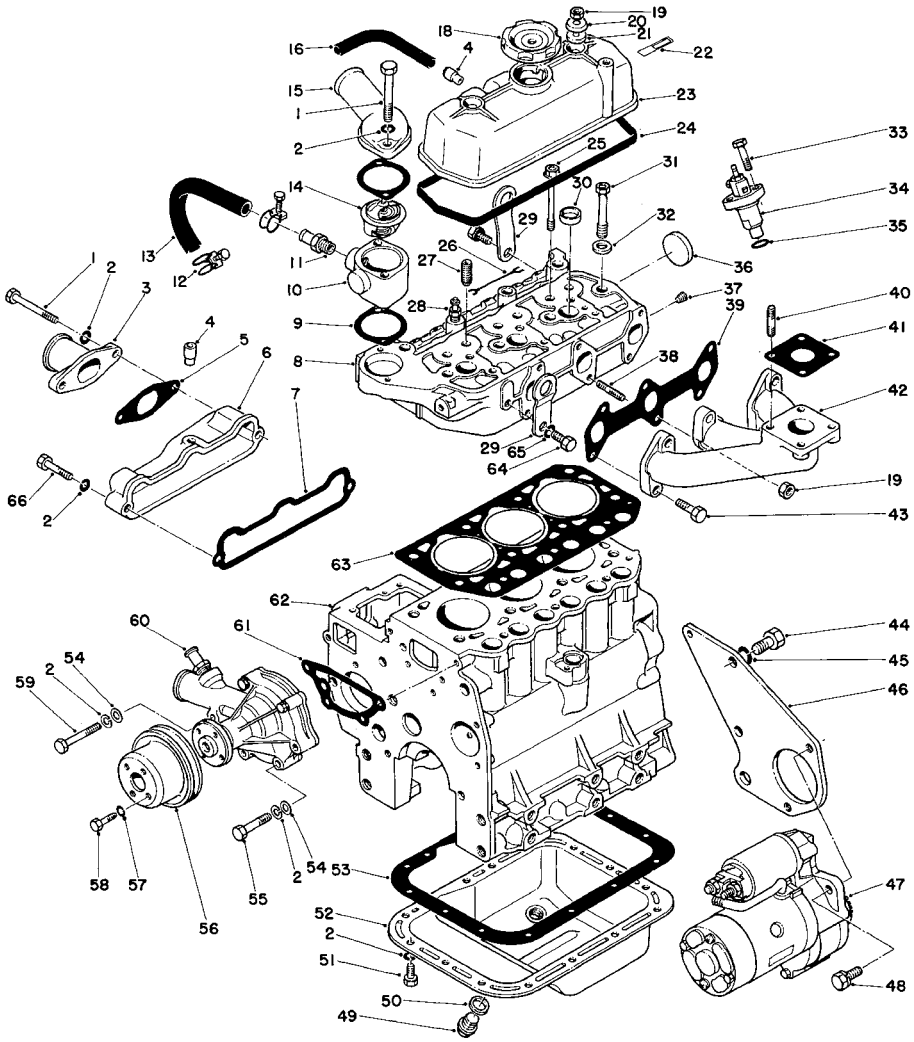
Ref. No.	Part No.	Description	No. Used
27	43-3210	Capscrew	4
28	43-4250	Engine Support Front	1
29	3257-33	Key Woodruff	1
30	302-10	Grease Fitting	1
31	43-3720	Collar – Bearing	1
32	251-261	Ball Bearing	1
33	32120-22	Ring – Retaining Internal	1
34	32120-69	Ring – Retaining External	1
35	3245-1	Set Screw Socket Head	2
36	27-1960	Hub Engine	1
37	323-11	Capscrew	2
38	3-4685	Washer	2
39	42-9600	Lockwasher	3
40	43-3190	Capscrew	3
41	21-1820	Stud – Belt Retainer	4
42	3290-357	Locking Nut w/Flange	8
43	3234-5	Capscrew	4
44	43-3220	Capscrew	2
45	42-9850	Lockwasher	2
46	43-3790	Bracket Belt Guide	1
47	4-2390	Washer	1
48	3217-5	Nut	1
49	3253-3	Lockwasher	3
50	43-3730	Bracket Throttle Control	1
51	329-7	Capscrew	1
52	43-3760	Lever Throttle	1



ENGINE ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
1	43-1910	Fan, Cooling	1
2	43-3690	Fan Shaft	1
3	3257-30	Key Woodruff	2
4	43-3700	Hub – Fan	1
5	38-7820	Bearing	2
6	43-3590	Fan Mount	1
7	3290-357	Nut w/Locking Flange	5
8	43-3870	Support Muffler	1
9	3233-14	Carriage Bolt	1
10	43-3880	Pulley	1
11	43-5910	V-Belt	1
12	29-8910	Washer	2
13	32136-3	Hex Slotted Nut	2
14	3272-16	Cotter Pin	2
15	3-6803	Washer	A/R
16	31-0530	Ball Bearing	1
17	32128-23	Locknut Flange Side Lock	1
18	43-3850	Muffler	1
19	33-5370	Idler Pulley (Incl. Ref. #16)	1

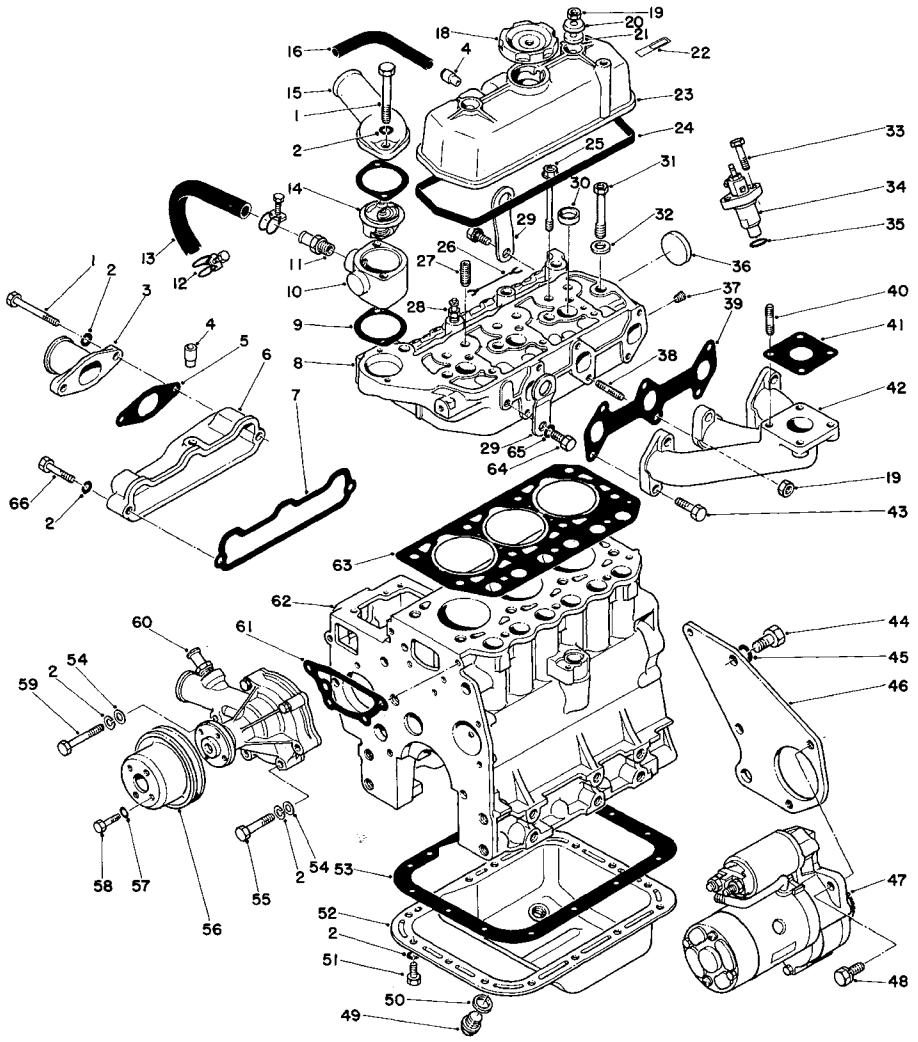
Ref. No.	Part No.	Description	No. Used
20	43-7690	Spacer	1
21	42-9580	Nut	4
22	42-9850	Lockwasher	5
23	43-5640	Engine Mount	1
24	43-3200	Capscrew	4
25	42-9600	Lockwasher	4
26	43-3530	Pulley Flywheel	1
27	323-11	Capscrew	2
28	3-4685	Washer	2
29	44-5240	Engine Mount Rubber	2
30	42-6080	Shim	A/R
31	32128-20	Locking Nut w/Flange	4
32	3234-5	Capscrew	4
33	43-5940	Lockwasher	2
34	43-3180	Capscrew	2
35	3234-12	Capscrew w/Locking Flange	2
36	42-9230	Capscrew	1
37	3253-3	Lockwasher	4
38	321-3	Capscrew	4



ENGINE

Ref. No.	Part No.	Description	No. Used
1	42-9310	Capscrew	4
2	42-9850	Lockwasher	24
3	42-9150	Pipe Inlet	1
4	42-7510	Pipe	2
5	42-9160	Gasket, Inlet Pipe	1
6	42-9120	Manifold Assembly, Intake	1
7	42-9140	Gasket, Intake Manifold	1
8	42-7450	Head Assembly, Cylinder	1
9	42-7550	Gasket	2
10	43-1790	Fitting Thermostat	1
11	42-7740	Nipple, Hose	1
12	43-3140	Clamp, Hose	2
13	43-3130	Hose, Water (Incl. Ref. #12)	1
14	43-1780	Thermostat	1
15	42-7540	Fitting, Water Outlet	1
16	42-7430	Pipe, Air Breather	1
18	42-7420	Cap, Oil Filter	1
19	42-9580	Nut (8)	3
20	42-9800	Washer	2
21	42-7490	Seal, Oil	2
22	42-7530	Label, Engine No.	1
23	42-7500	Cover Assembly, Rocker	1
24	42-7520	Gasket, Rocker Cover	1

Ref. No.	Part No.	Description	No. Used
25	42-9330	Bolt, Cylinder Head (10 x 90)	3
26	42-9180	Wire Glow Plug Lead	2
27	42-7460	Guide Valve	6
28	42-7480	Glow Plug	3
29	42-7440	Hanger, Engine	2
30	42-7080	Cap, Sealing (25)	3
31	42-9320	Bolt, Cylinder Head (12 x 98)	8
32	42-9790	Washer, Cylinder Head Bolt	8
33	42-9390	Bolt (8 x 32)	6
34	44-8070	Nozzle & Holder Assembly	3
35	42-8120	Gasket, Nozzle Holder	3
36	42-7090	Cap, Sealing (45)	1
37	42-7410	Plug, Taper 1/8	1
38	42-9570	Stud (8 x 25)	1
39	42-9170	Gasket, Exhaust Manifold	1
40	42-9570	Stud (8 x 25)	4
41	42-9110	Gasket	1
42	43-1870	Manifold, Exhaust	1
43	42-9520	Capscrew (8 x 30)	5
44	42-9240	Capscrew (12 x 28)	3
45	43-5940	Lockwasher	3
46	43-1770	Plate, Rear	1
47	46-7610	Starter Assembly	1

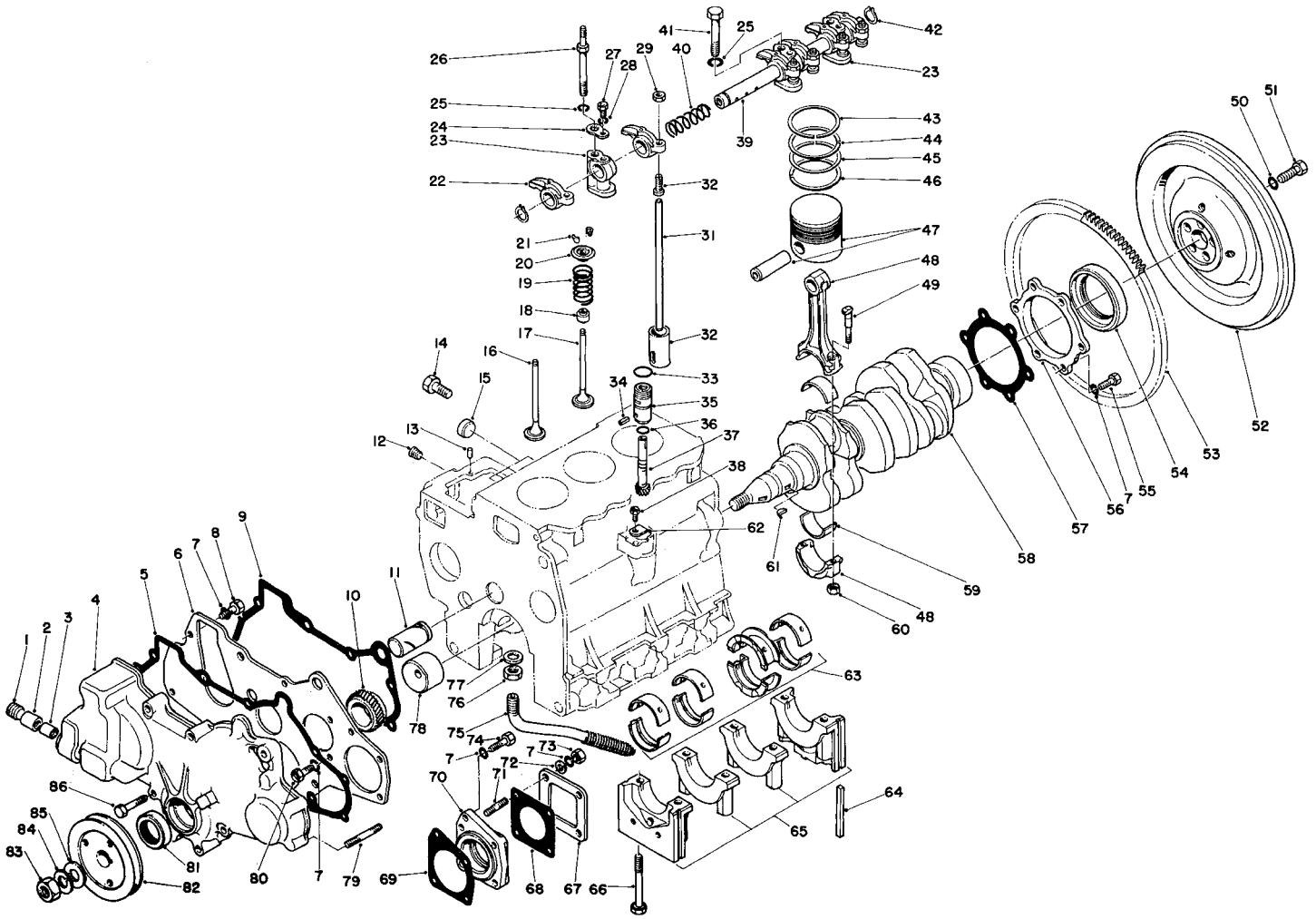


ENGINE (Continued)

Ref. No.	Part No.	Description	No. Used
48	43-0090	Capscrew (10 x 25)	2
49	42-9260	Plug, Oil Drain	1
50	42-7290	Gasket, Oil Drain Plug (18)	1
51	42-9230	Capscrew (8 x 16)	15
52	42-7280	Pan Assembly Oil (Incl. Ref. #49 & 50)	1
53	42-7300	Gasket, Oil Pan	1
54	42-9660	Washer, Plain (8)	4
55	42-9500	Capscrew (8 x 45)	3
56	42-9070	Pulley, Water Pump	1
57	43-5930	Lockwasher	4
58	42-9490	Capscrew (6 x 12)	4
59	42-9510	Capscrew (8 x 60)	1
60	42-9080	Pump Assembly, Water	1

Ref. No.	Part No.	Description	No. Used
61	42-9090	Gasket, Water Pump	1
62	42-7070	Block Sub Assembly, Cylinder	1
63	42-7470	Gasket, Cylinder Head	1
64	42-9300	Capscrew (10 x 20)	2
65	42-9600	Lockwasher	2
66	42-9530	Capscrew (8 x 40)	1
*	42-9200	Complete Gasket Set	1
*	43-6440	Compression Gauge Adapter	1
*	43-6450	Tool – Camshaft Bushing Installation	1
*	43-6460	Piston Setting Tool	1
*	43-7580	Nozzle Tester Connecting Pipe	1
*	46-3610	Nozzle – Tester	1
*	46-3630	Compression Gauge	1

*Not Illustrated



ENGINE (Continued)

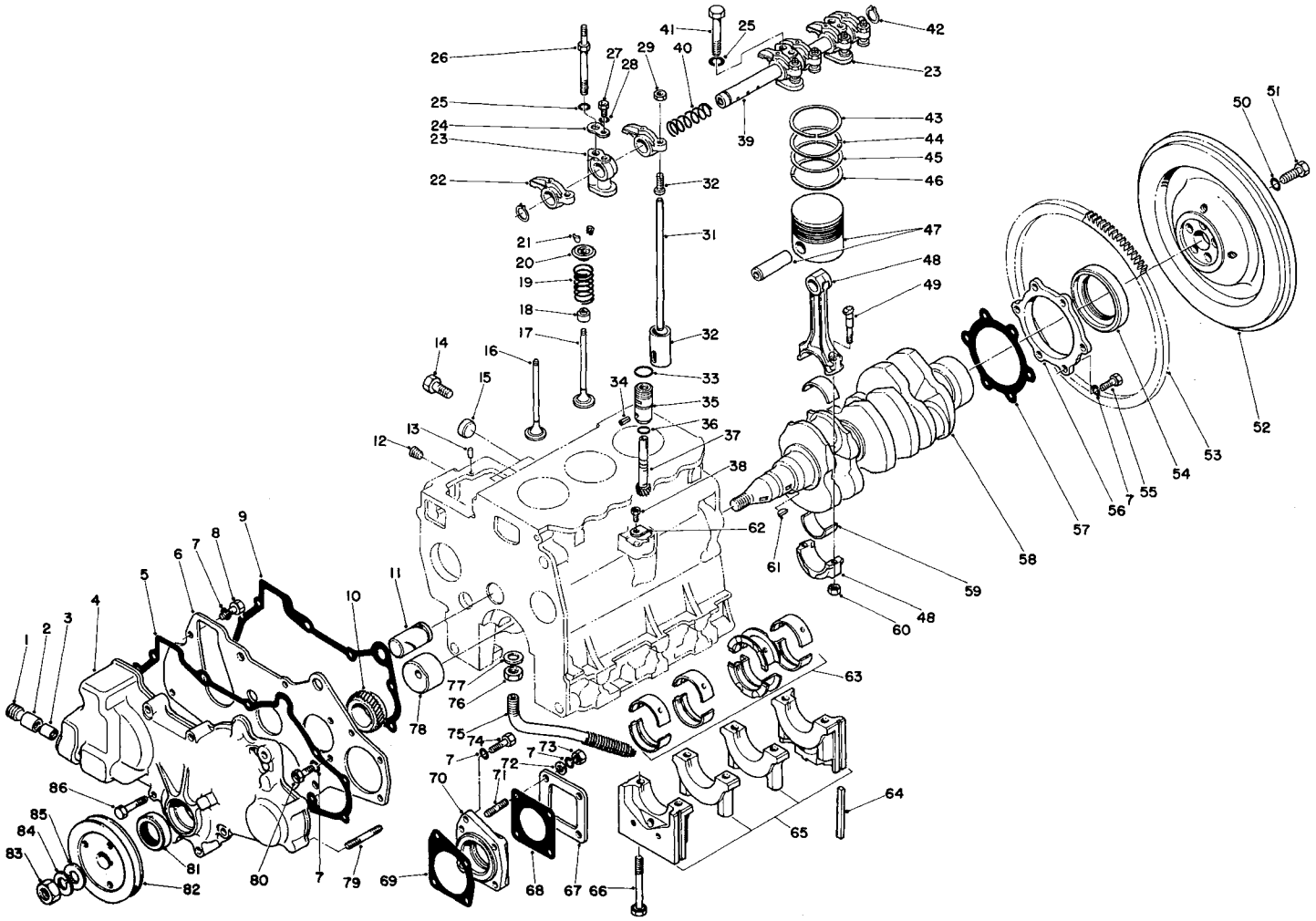
Ref. No.	Part No.	Description	No. Used
1	42-7400	Plug, Taper (1/2)	1
2	42-7320	Bearing, Needle	1
3	42-7310	Bearing, Needle	1
4	42-7330	Case, Gear	1
5	42-7340	Gasket, Gear Case	1
6	42-7140	Plate, Front	1
7	42-9850	Lockwasher	16
8	43-0110	Capscrew (8 x 20)	2
9	42-7150	Gasket, Front Plate	1
10	42-7700	Gear, Crankshaft	1
11	42-7110	Shaft, Idler	1
12	42-7210	Plug, Taper (PT 1/4)	3
13	42-7030	Pin, Dowel	2
14	42-9250	Capscrew (12 x 25)	4
15	42-7080	Cap, Sealing (25)	2
16	42-7900	Valve, Intake	3
17	42-7910	Valve, Exhaust	3
18	42-7870	Seal, Valve Stem	6
19	42-7880	Spring, Valve	6
20	42-7850	Retainer, Valve Spring	6
21	42-7860	Lock, Valve Spring Retainer	12
22	42-7940	Arm, Rocker	6
23	42-7970	Stay, Rocker	3
24	42-7950	Washer Seat	2
25	42-9600	Washer, Spring (10)	3
26	42-9360	Bolt	2
27	42-9350	Capscrew (6 x 16)	2

Ref. No.	Part No.	Description	No. Used
28	43-5930	Lockwasher	2
29	42-9620	Nut, Jam (10)	6
30	42-7980	Screw, Adjusting	6
31	42-7920	Rod, Push	6
32	42-7890	Tappet	6
33	42-9010	O-Ring (18)	1
34	42-8970	Pin, Spring	1
35	42-8980	Sleeve, Speedmeter Driven Gear	1
36	42-8990	O-Ring B	1
37†		Gear, Speedmeter Driven	1
38	42-9440	Capscrew (6 x 14)	1
39	42-7960	Shaft Assembly, Rocker	1
40	42-7930	Spring, Rocker Shaft L.H.	1
41	42-9370	Capscrew (10 x 70)	1
42	42-7990	Ring, Snap (19)	2
43	42-7570	Ring, Set, Piston Std.	3
44‡	42-7580	Ring Set, Piston 0.25 (.010)O.S.	3
45‡	42-7590	Ring Set, Piston 0.50 (.020)O.S.	3
46‡	42-7600	Ring Set, Piston 0.75 (.030)O.S.	3
47	42-7610	Piston & Piston Pin Std.	3
* ‡	42-7620	Piston & Piston Pin 0.25 (.010) O.S.	3
* ‡	42-7630	Piston & Piston Pin 0.50 (.020) O.S.	3
* ‡	42-7640	Piston & Piston Pin 0.75 (.030) O.S.	3
48	42-7650	Rod Assembly, Connecting	3

*Not Illustrated

†Not serviced separately

‡Dimension's in parenthesis are given in inches.



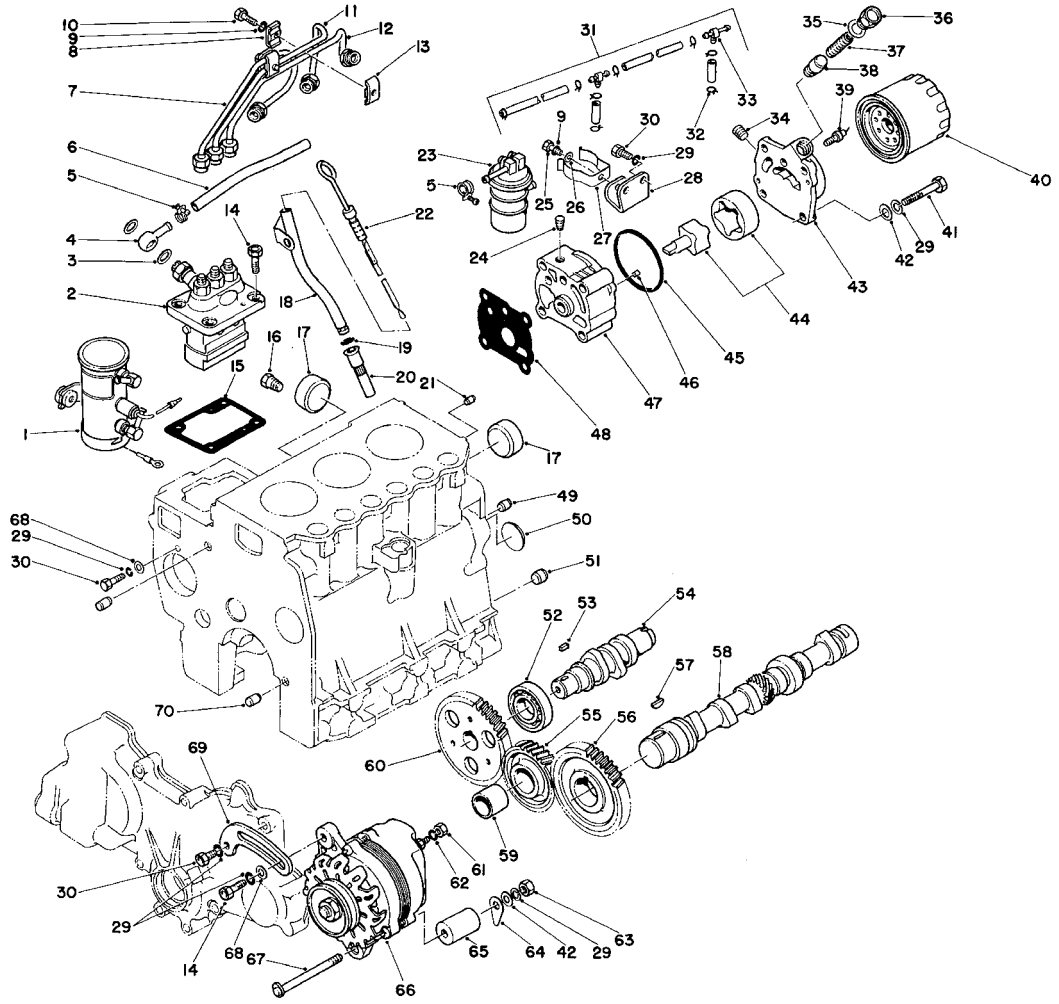
ENGINE (Continued)

Ref. No.	Part No.	Description	No. Used
49	42-9470	Bolt Connecting Rod	6
50	42-9870	Washer, Special Spring (12)	5
51	42-9340	Bolt Flywheel	5
52	43-1800	Flywheel (Incl. Ref. #53)	1
53	43-1810	Gear, Ring	1
54	42-7060	Seal, Oil	1
55	42-9220	Capscrew (8 x 22)	6
56	42-7120	Case, Oil Seal	1
57	42-7130	Gasket, Oil Seal	1
58	42-7710	Crankshaft	1
59	42-7660	Bearing Set, Connecting Rod Std.	3
* ‡	42-7670	Bearing Set, Connecting Rod 0.25 (.010) U.S.	3
* ‡	42-7680	Bearing Set, Connecting Rod 0.50 (.020) U.S.	3
* ‡	42-7690	Bearing Set, Connecting Rod 0.75 (.030) U.S.	3
60	42-9590	Nut, Connecting Rod	6
61	42-7730	Key, Woodruf (5 x 19)	2
62	42-9020	Plate, Locking	1
63	42-7230	Bearing Set, Crankshaft Std.	1
* ‡	42-7240	Bearing Set, Crankshaft 0.25 (.010) U.S.	1
* ‡	42-7250	Bearing Set, Crankshaft 0.50 (.020) U.S.	1

Ref. No.	Part No.	Description	No. Used
* ‡	42-7260	Bearing Set, Crankshaft 0.75 (.030) U.S.	1
64	42-7040	Seal Side	4
65†		Cap, Assembly, Bearing	1
66	42-9210	Bolt, Bearing Cap	8
67	42-7370	Cover, Oil Pump	1
68	42-7380	Gasket, Oil Pump Cover	1
69	42-7360	Gasket, Housing	1
70	42-7350	Housing, Pump Gear Bearing	1
71	42-9560	Stud (8 x 25)	1
72	42-9780	Washer, Plain (8)	4
73	42-9580	Nut (8)	4
74	42-9520	Capscrew (8 x 30)	1
75	42-9050	Screen Assembly Oil	1
76	42-9650	Nut, Jam (14)	1
77	42-9040	Washer, Seal	1
78	42-7100	Bushing, Crankshaft	1
79	42-9550	Stud (8 x 45)	3
80	42-9230	Capscrew (8 x 16)	3
81	42-7390	Seal, Oil	1
82	42-7720	Pulley, Crankshaft	1
83	43-6470	Nut (18)	1
84	42-9860	Washer Spring (18)	1
85	42-9810	Washer, Plain (18)	1
86	42-9500	Capscrew	8
*	42-8960	Driven Unit, Speedmeter (Incl. Ref. #33-37)	1

*Not Illustrated
†Not Available

‡Dimension's in parenthesis are given in inches.



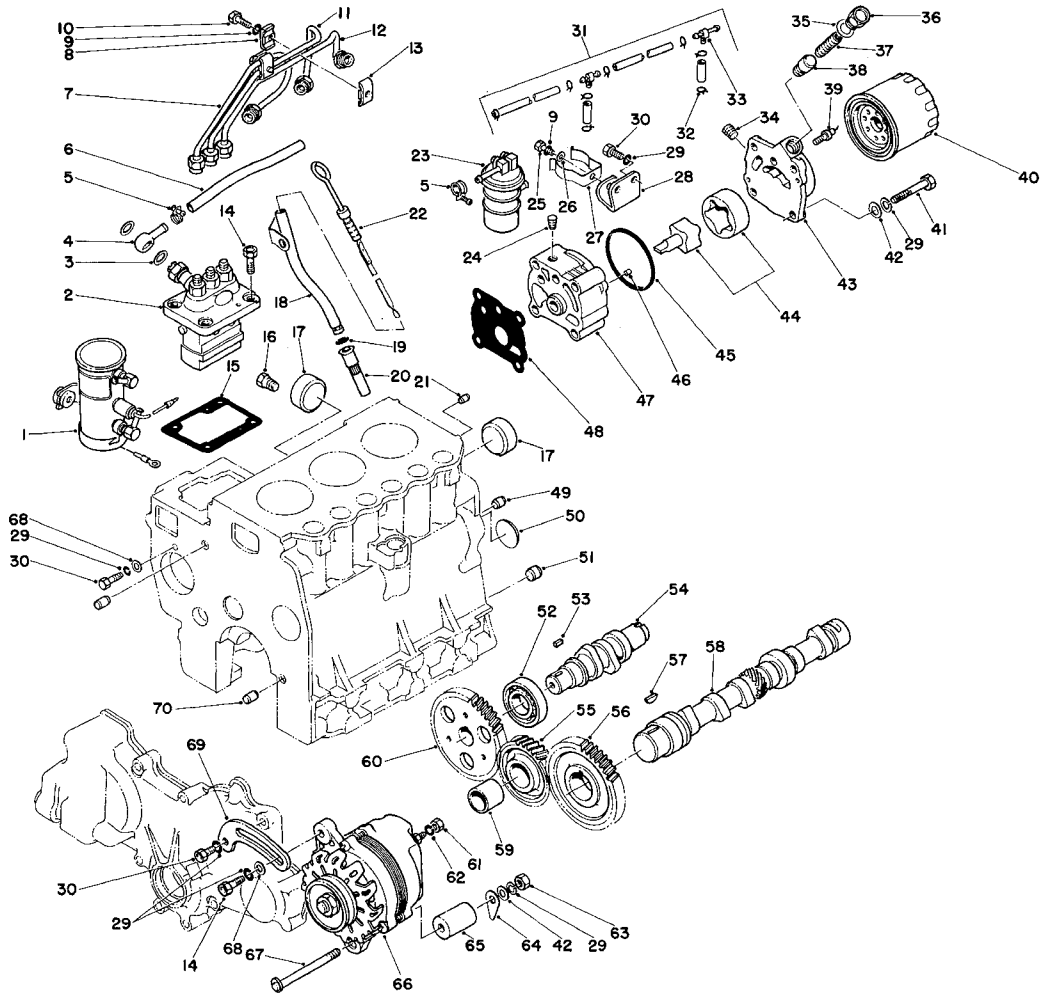
ENGINE (Continued)

Ref. No.	Part No.	Description	No. Used
1	43-1860	Pump Assembly, Fuel Electric	1
*	43-2550	Filter, Fuel Pump	1
*	43-2560	Gasket	1
*	43-2570	Gasket	1
*	43-2580	Magnet	1
2	42-8000	Pump Assembly, Fuel Injection	1
3	42-9830	Washer, Seal	2
4	42-8100	Collar, Union	1
5	2412-36	Clamp, Hose	2
6	43-1830	Hose Assembly Fuel	1
7	42-8130	Pipe Assembly, Fuel Injection No. 1	1
8	42-8160	Clamp	2
9	43-5930	Lockwasher	3
10	43-2600	Capscrew	2
11	42-8140	Pipe Assembly, Fuel Injection No. 2	1
12	42-8150	Pipe Assembly, Fuel Injection No. 3	1
13	42-8170	Clamp	2
14	43-0110	Capscrew (8 x 20)	5
15‡	42-8010	Shim, Adjusting 0.2 (.008)	A/R
* ‡	42-8020	Shim, Adjusting 0.3 (.012)	A/R

Ref. No.	Part No.	Description	No. Used
* ‡	42-8030	Shim, Adjusting 0.4 (.016)	A/R
* ‡	42-8040	Shim, Adjusting 0.5 (0.20)	A/R
* ‡	42-8050	Shim, Adjusting 0.6 (.024)	A/R
* ‡	42-8060	Shim, Adjusting 0.7 (.028)	A/R
* ‡	42-8070	Shim, Adjusting 0.8 (.032)	A/R
* ‡	42-8080	Shim, Adjusting 0.9 (.036)	A/R
* ‡	42-8090	Shim, Adjusting 1.0 (.039)	A/R
16	281-1	Plug, Taper (NPTF ¼)	1
17	42-7090	Cap, Sealing (45)	2
18	42-7050	Guide, Oil Level Gauge	1
19	43-2710	O-Ring (9)	1
20	43-2900	Retainer, Oil Level Guide	1
21	42-7160	Pin, Dowel(8)	1
22	42-7270	Gauge Assembly, Oil Level	1
23	43-1820	Filter Assembly Fuel	1
24	42-7410	Plug, Taper	1
25	42-9490	Capscrew (6 x 12)	1
26	43-3230	Washer, Plain (6)	1
27	43-1840	Clamp Filter	1
28	43-1850	Support, Filter	1
29	42-9850	Lockwasher	10
30	42-9230	Capscrew (8 x 16)	4
31	42-8180	Pipe Assembly, Fuel Return	1

*Not Illustrated

‡Dimension's in parenthesis are given in inches.

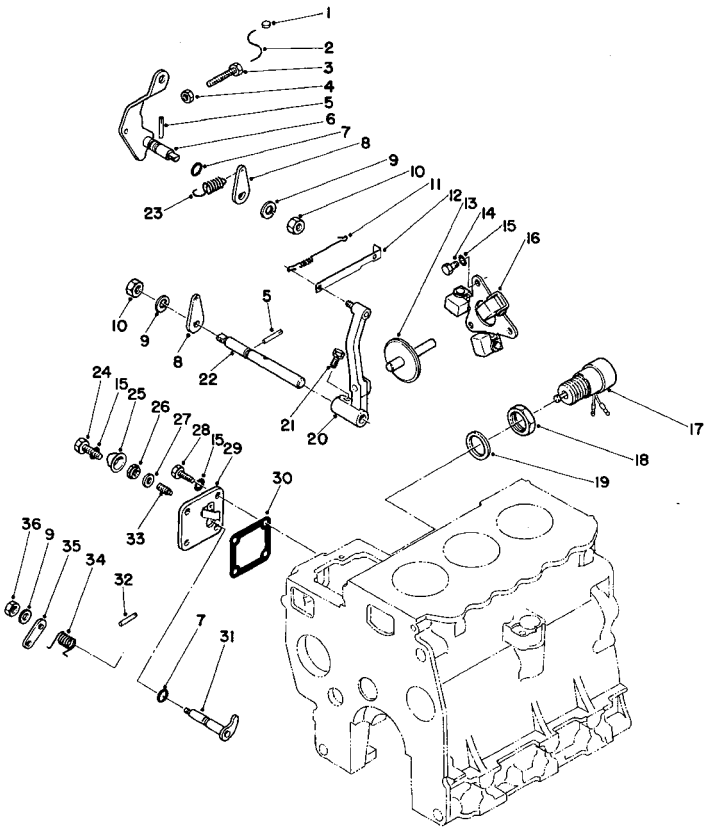


ENGINE (Continued)

Ref. No.	Part No.	Description	No. Used
32	2412-79	Clamp, Hose	8
33	42-8190	Joint	2
34	42-7210	Plug, Taper (¼)	1
35	42-8880	Gasket	1
36	42-8870	Plug	1
37	42-8930	Spring Relief	1
38	42-8860	Plunger, Relief	1
39	42-9060	Switch Assembly Oil Pressure	1
40	42-9030	Filter Assembly Oil	1
41	42-9480	Capscrew (8 x 65)	4
42	42-9660	Washer Plain (8)	4
43	42-8920	Cover, Oil Pump	1
44	42-8910	Rotor Assembly, Oil Pump	1
45	42-8940	O-Ring	1
46	42-7030	Pin, Dowel	2
47	42-8900	Body, Oil Pump	1
48	42-8950	Gasket, Oil Pump Body	1
49	42-7180	Bushing, Knock	2
50	42-7170	Plug, Expansion (40)	1
51	42-7200	Bushing, Knock	1
52	42-7820	Bearing, Ball	1

Ref. No.	Part No.	Description	No. Used
53	42-7840	Key, Sunk (5 x 12)	1
54	42-7810	Shaft, Fuel Injection Pump Cam	1
55	42-7790	Gear Assembly, Idler	1
56	42-7780	Gear, Camshaft	1
57	42-7730	Key Woodruff	1
58	42-7770	Camshaft	1
59†		Bushing, Idler Gear	1
60	42-7830	Gear, Fuel Injection Pump Cam	1
61	43-5970	Nut	1
62	43-5920	Lockwasher	1
63	42-9580	Nut (8)	1
64	43-0370	Shim	A/R
65	43-0380	Spacer	1
66	43-0390	Alternator Model AH2035M4	1
67	43-1900	Capscrew (8 x 89)	1
68	42-9820	Washer	2
69	43-0400	Brace Alternator	1
70	42-7190	Bushing Knock	2
*	42-8850	Oil Pump Assembly (Incl. Ref. #24, 34-38 & 43-47)	1

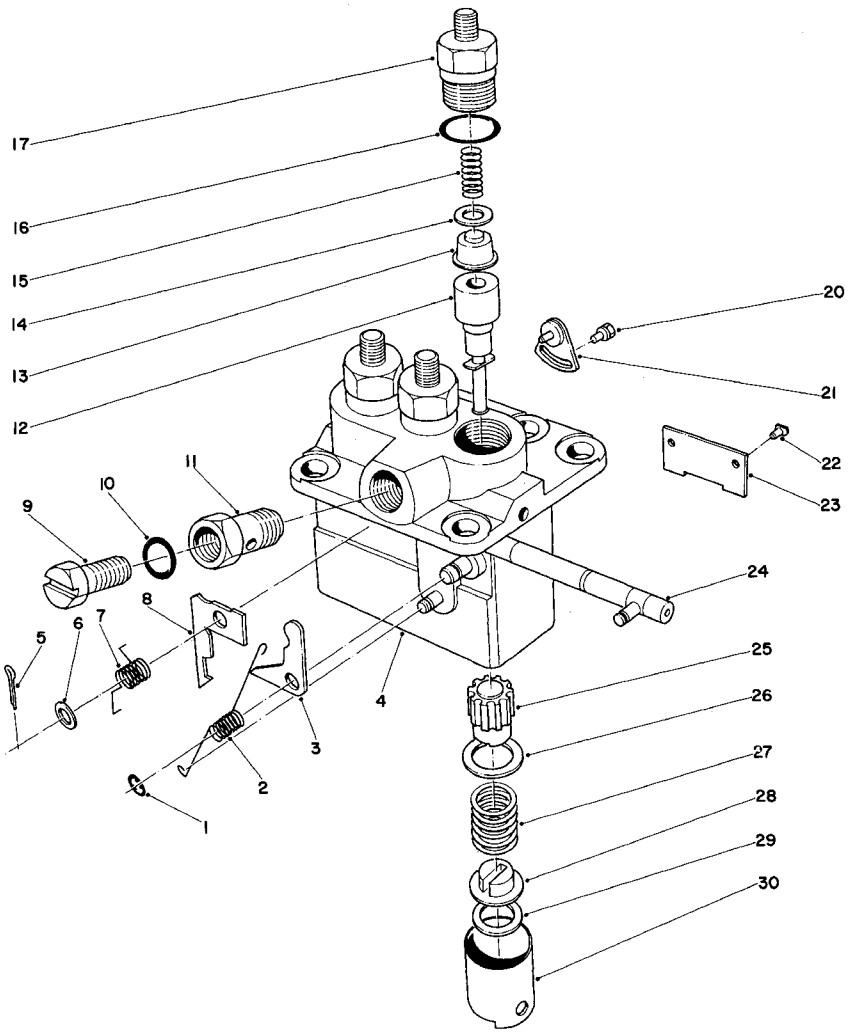
*Not Illustrated
†Not Available



ENGINE (Continued)

Ref. No.	Part No.	Description	No. Used
1	42-8690	Metal Sealing	1
2	42-8700	Wire	1
3	42-9420	Bolt High Speed Set	1
4	43-2830	Nut	1
5	42-8810	Pin, Grooved	2
6	42-8780	Lever Assembly Speed Control	1
7	42-8830	O-Ring	2
8	42-8770	Lever, Governor Spring	2
9	42-9850	Lockwasher	2
10	42-9580	Jam Nut	2
11	42-8740	Spring Tie Rod	1
12	42-8750	Tie Rod	1
13	42-8720	Sliding Shaft Assembly	1
14	42-9430	Capscrew	3
15	43-5930	Lockwasher	7
16	42-8710	Weight Assembly Governor	1
17	43-2730	Solenoid, Tubular	1
18	43-2750	Nut	1
19	43-2740	Gasket	1

Ref. No.	Part No.	Description	No. Used
20	42-8730	Lever Assembly, Governor	1
21	42-9450	Bolt Washer Assembled	1
22	42-8760	Governor Shaft	1
23	42-8820	Governor Spring	1
24	43-2800	Capscrew	1
25	43-2820	Sealing Cap	1
26	43-5960	Nut Special	1
27	43-3120	Washer, Seal	1
28	42-9400	Capscrew	3
29	42-8790	Cover Assembly (Incl. Ref. #26, 27 & 33)	1
30	42-8800	Gasket Cover	1
31	44-8090	Lever Assembly Stop	1
32	42-8810	Pin, Grooved	1
33	43-3160	Screw Adjusting	1
34	44-8100	Spring Return	1
35	43-2770	Lever, Stop	1
36	42-9640	Jam Nut	1



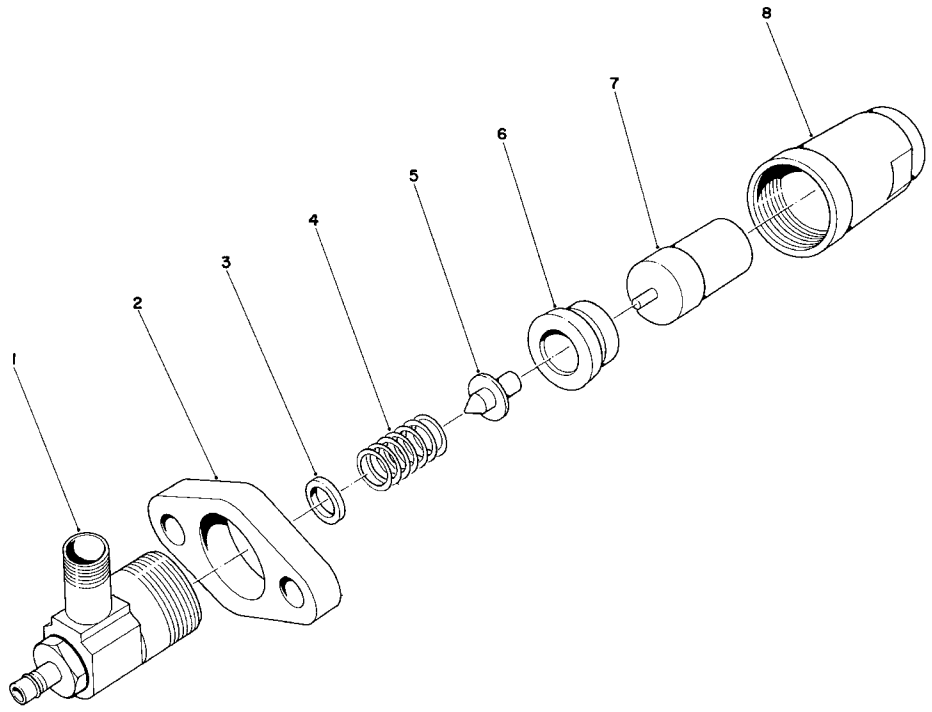
FUEL INJECTION PUMP ASSEMBLY NO. 42-8000

Ref. No.	Part No.	Description	No. Used
1	43-3100	E-Ring	1
2	43-3110	Spring, Ungleich Set	1
3 ǂ	43-2910	Plate, Ungleich Set 16.9 (.665)	A/R
* ǂ	43-2920	Plate, Ungleich Set 16.8 (.661)	A/R
* ǂ	43-2930	Plate, Ungleich Set 16.7 (.657)	A/R
* ǂ	43-2940	Plate, Ungleich Set 16.6 (.654)	A/R
* ǂ	43-2950	Plate, Ungleich Set 16.5 (.650)	A/R
4		Housing Sub Assembly Pump	1
5	42-8470	Pin, Split	1
6	42-9760	Washer, Plate	1
7	42-8460	Spring Return	1
8 ǂ	43-3000	Plate, Smoke Set 2.2 (.087)	A/R
* ǂ	43-3010	Plate, Smoke Set 2.4 (.095)	A/R
* ǂ	43-3020	Plate, Smoke Set 2.6 (.102)	A/R
* ǂ	43-3030	Plate, Smoke Set 2.8 (.110)	A/R
* ǂ	43-3040	Plate, Smoke Set 3.0 (.118)	A/R
* ǂ	43-3050	Plate, Smoke Set 3.2 (.126)	A/R
* ǂ	43-3060	Plate, Smoke Set 3.4 (.134)	A/R
* ǂ	43-3070	Plate, Smoke Set 3.6 (.142)	A/R
* ǂ	43-3080	Plate, Smoke Set 3.8 (.150)	A/R
* ǂ	43-3090	Plate, Smoke Set 4.0 (.157)	A/R
9	42-8370	Screw, Air Breather	1
10	42-9770	Washer	1
11	42-8380	Screw, Follow	1

Ref. No.	Part No.	Description	No. Used
12	42-8260	Element Sub Assembly	3
13	42-8250	Delivery Valve Sub Assembly	3
14	42-8240	Gasket, Delivery Valve	3
15	42-8230	Spring, Delivery Valve	3
16	42-8330	O-Ring	3
17	42-8220	Holder, Delivery Valve	3
20	43-3150	Bolt, Washer Assembled	2
21	42-8360	Plate Assembly, Adjusting	2
22	42-8340	Pin, Tappet Guide	3
23	42-8350	Plate	1
24	42-8310	Rack Assembly Control	1
25	42-8270	Sleeve, Plunger Control	3
26	42-8280	Seat, Spring Upper	3
27	42-8290	Spring, Pump Plunger	3
28	42-8320	Seat, Spring Lower	3
29 ǂ	42-8390	Shim, Plate 0.6 (.024)	A/R
* ǂ	42-8400	Shim, Plate 0.2 (.008)	A/R
* ǂ	42-8410	Shim, Plate 0.3 (.012)	A/R
* ǂ	42-8420	Shim, Plate 0.4 (.016)	A/R
* ǂ	42-8430	Shim, Plate 0.5 (.020)	A/R
* ǂ	42-8440	Shim, Plate 0.25 (.010)	A/R
* ǂ	42-8450	Shim, Plate 0.35 (.014)	A/R
* ǂ	43-6240	Shim, Plate 0.45 (.018)	A/R
30	42-8300	Tappet Sub. Assembly	3

*Not Illustrated

ǂDimension's in parenthesis are given in inches.

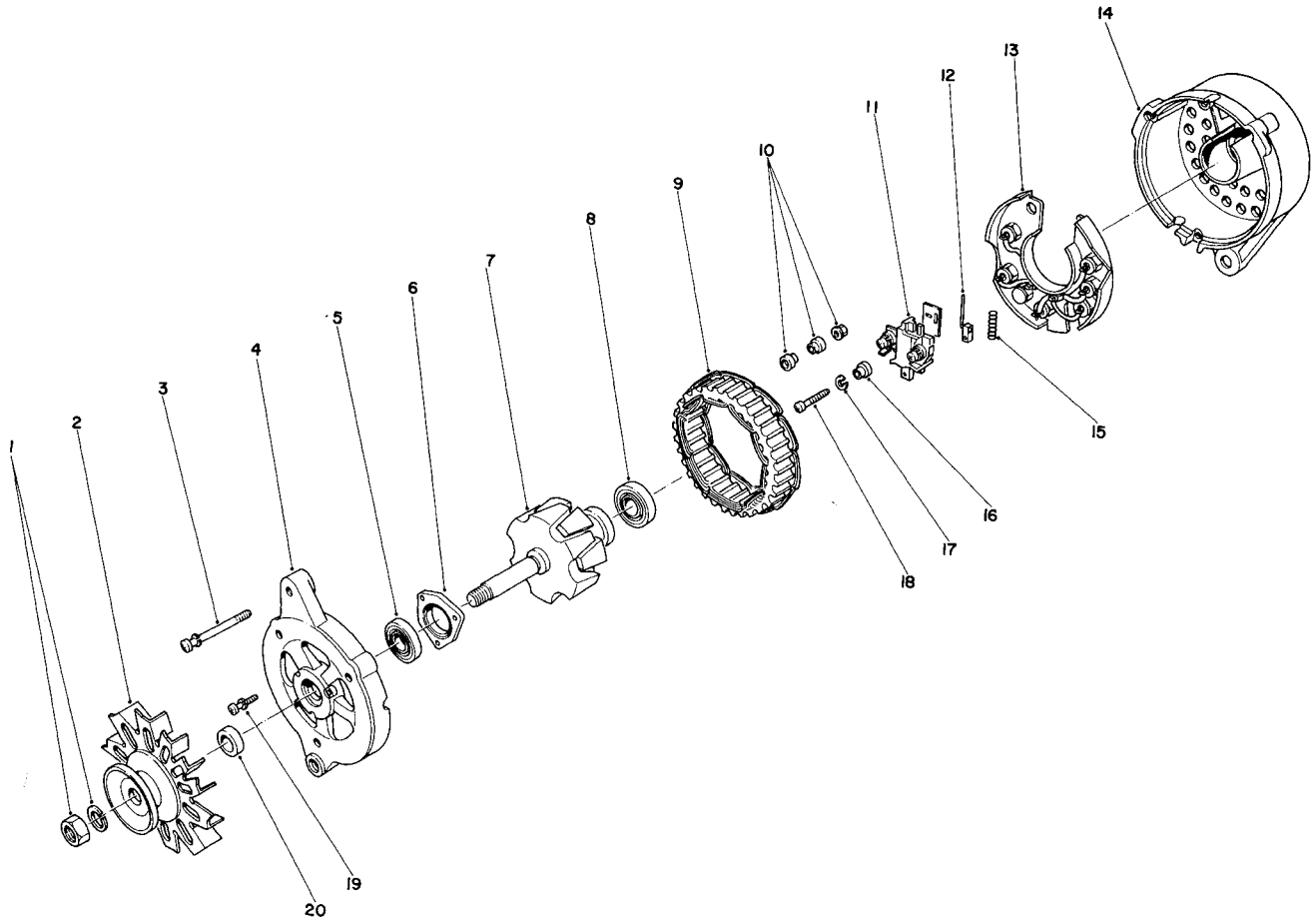


NOZZLE & HOLDER ASSEMBLY NO. 44-8070

Ref. No.	Part No.	Description	No. Used
1	44-8080	Body	3
2	42-8670	Flange	3
3‡	42-9680	Washer 1.3 (.051)	A/R
*‡	42-9690	Washer 1.35 (.053)	A/R
*‡	42-9700	Washer 1.4 (.055)	A/R
*‡	42-9710	Washer 0.9 (.035)	A/R
*‡	42-9720	Washer 1.0 (.039)	A/R
*‡	42-9730	Washer 1.1 (.043)	A/R
*‡	42-9740	Washer 1.2 (.047)	A/R
*‡	42-9750	Washer 0.1 (.004)	A/R
4	42-8630	Spring Pressure	3
5	42-8620	Pin, Pressure	3
6	42-8660	Piece, Distance	3
7	42-8680	Nozzle Assembly	3
8	42-8650	Nut, Retaining	3

*Not Illustrated

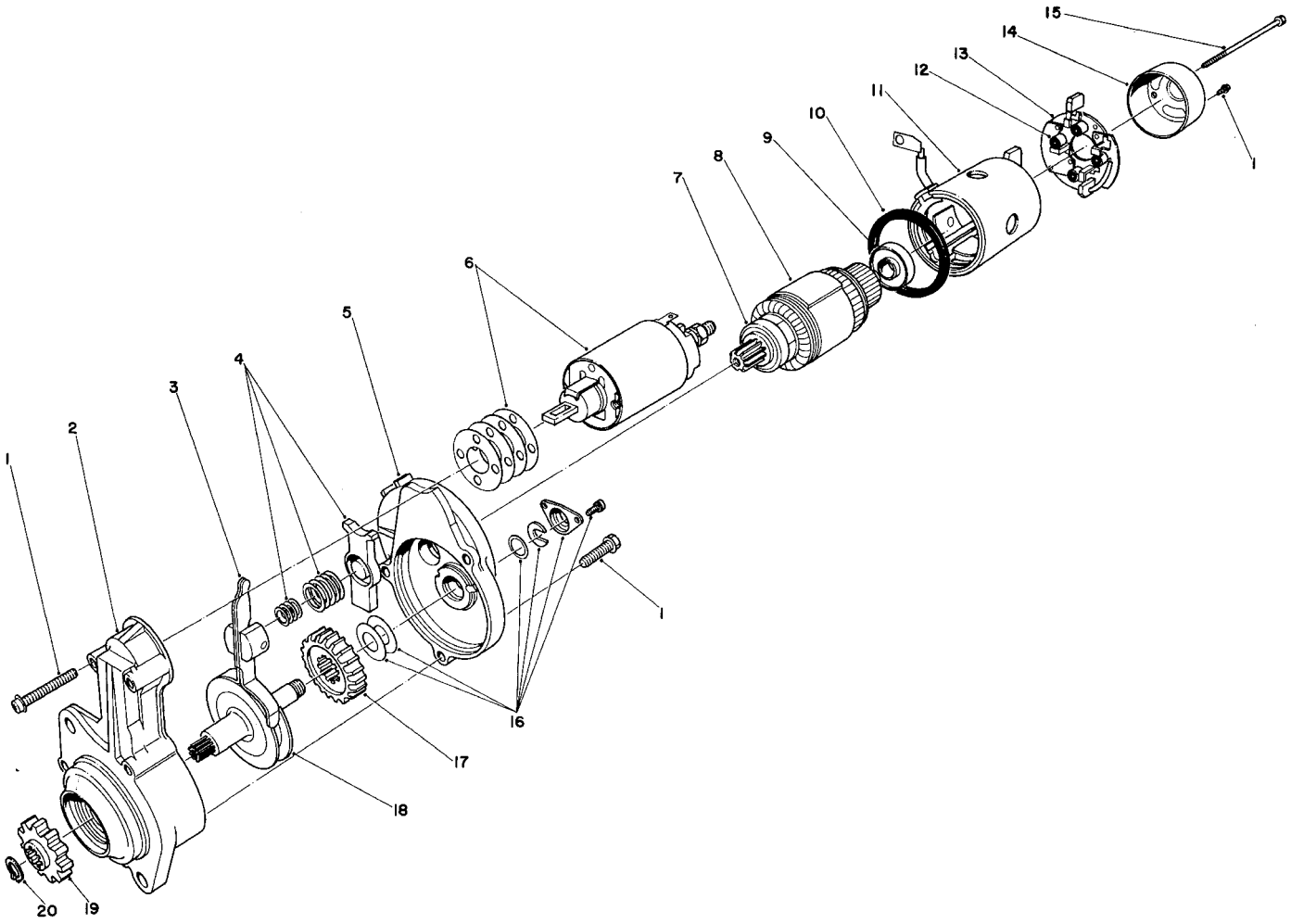
‡Dimension's in parenthesis are given in inches.



ALTERNATOR ASSEMBLY NO. 43-0390

Ref. No.	Part No.	Description	No. Used
1	43-1920	Nut Set	1
2	43-0420	Pulley Assembly (Incl. Ref. #20)	1
3	43-0120	Screw Set	1
4	43-0430	Bracket Assembly Front (Incl. Ref. #5-6 & 19)	1
5	43-0440	Bearing, Front	1
6		Plate – Ball Bearing Retainer	1
7	43-0450	Rotor Assembly (Incl. Ref. #8)	1
8	43-0460	Bearing Rear	1
9	43-0470	Stator	1
10	43-0080	Nut Set	1

Ref. No.	Part No.	Description	No. Used
11	43-0490	Holder Assembly Brush (Incl. Ref. #12 & 15)	1
12	43-0500	Brush	2
13	43-0520	Rectifier Assembly	1
14	43-0480	Bracket Assembly, Rear (Incl. Ref. #10-13 & 15-18)	1
15	43-0510	Spring, Brush	1
16	43-2720	Mold	1
17	43-5920	Lockwasher	1
18	43-1890	Screw	1
19	43-0130	Screw Set	1
20		Collar Shaft	1

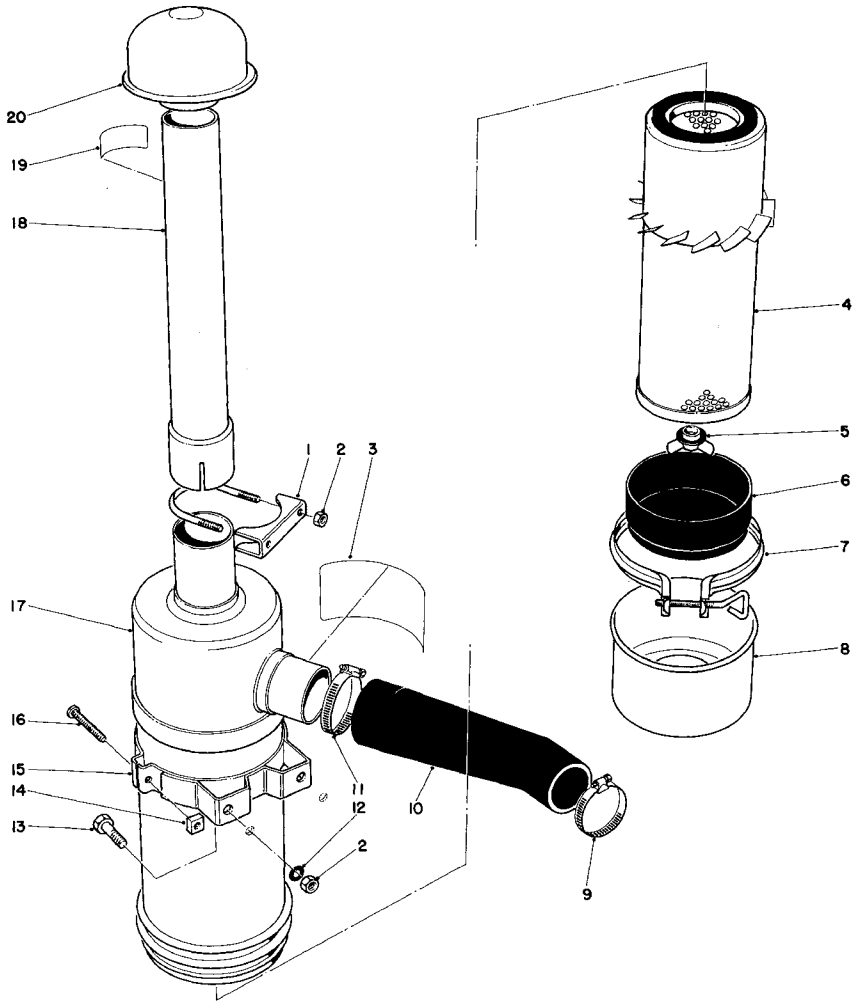


STARTER ASSEMBLY NO. 46-7610

Ref. No.	Part No.	Description	No. Used
1	46-7620	Screw Set	1
2	46-7630	Bracket Assembly, Front	1
3	46-7640	Lever Assembly	1
4	43-0190	Spring Set	1
5	46-7650	Bracket Assembly Center	1
6	46-7660	Switch Assembly	1
7	46-7680	Bearing Front	1
8	46-7670	Armature Set (Incl. Ref. #7 & 9)	1
9	46-7690	Bearing Rear	1
10	46-8050	Packing	1
11	46-7780	Yoke Assembly	1
12	46-8030	Spring Brush	4

Ref. No.	Part No.	Description	No. Used
13	46-7790	Brush Holder Assembly (Incl. Ref. #12)	1
14	46-8040	Bracket Rear	1
15	46-7700	Bolt Set	1
16	46-7770	Cover Set	1
17	46-7760	Gear	1
18	46-7750	Shaft Assembly Pinion	1
19	46-7720	Pinion Set (Incl. Ref. #20)	1
20	46-7730	Snap Ring	1
*	46-7740	Gear Set (Incl. Ref. #17 & 18)	1
*	46-7710	Shaft Assembly, Clutch Set (Incl. Ref. #16-20)	1

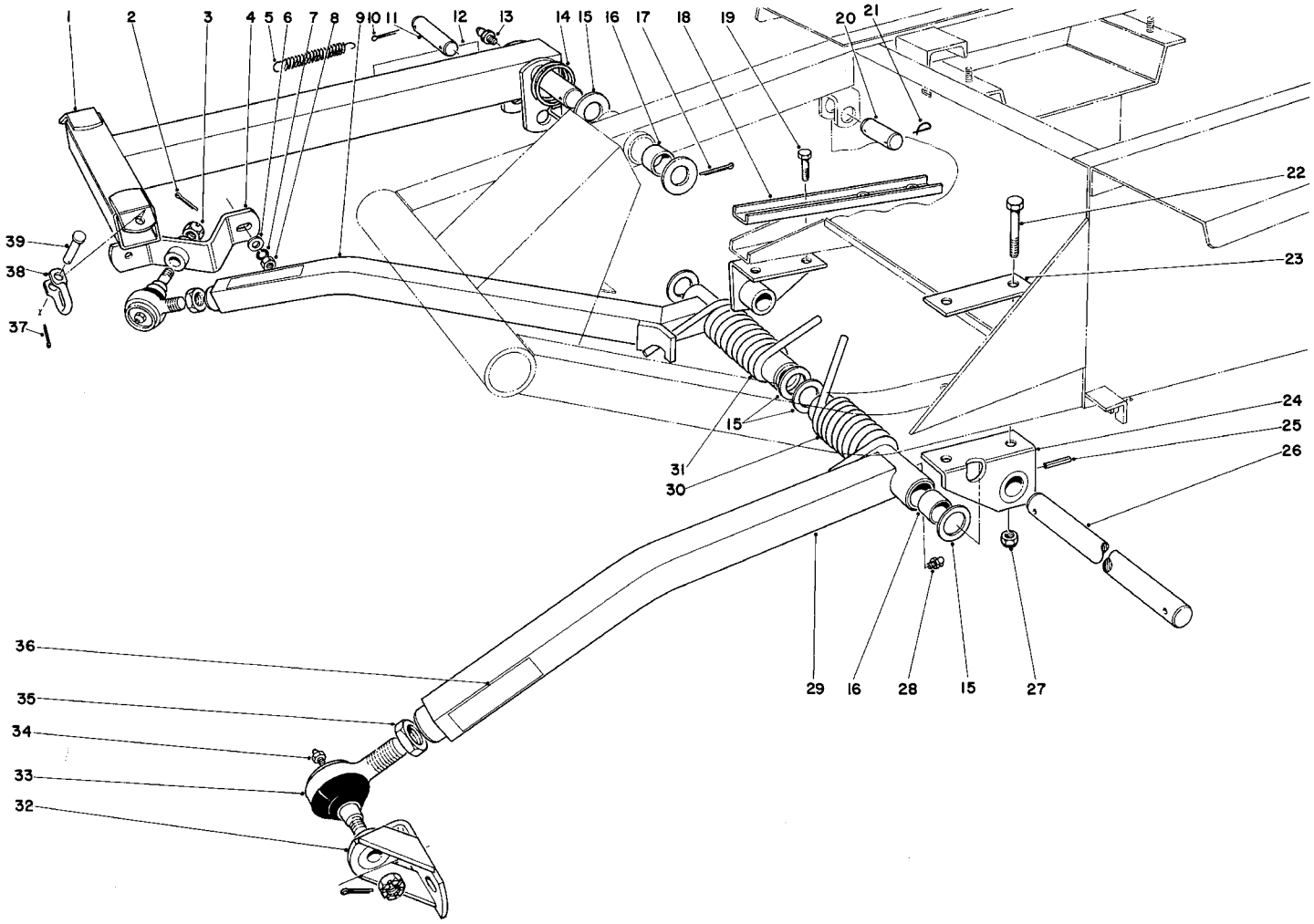
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AIR CLEANER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	20-4840	Muffler Clamp	1
2	3217-6	Nut	6
3	27-7160	Decal – Instructions	1
4	27-7110	Element Assembly	1
5	27-7120	Nut & Gasket Assembly	1
6	27-7140	Skirt – Baffle	1
7	27-7130	Clamp Assembly	1
8	27-7150	Cap Assembly	1
9	2412-3	Hose – Clamp	1
10	43-3830	Hose – Air Cleaner	1
11	2412-42	Hose Clamp	1

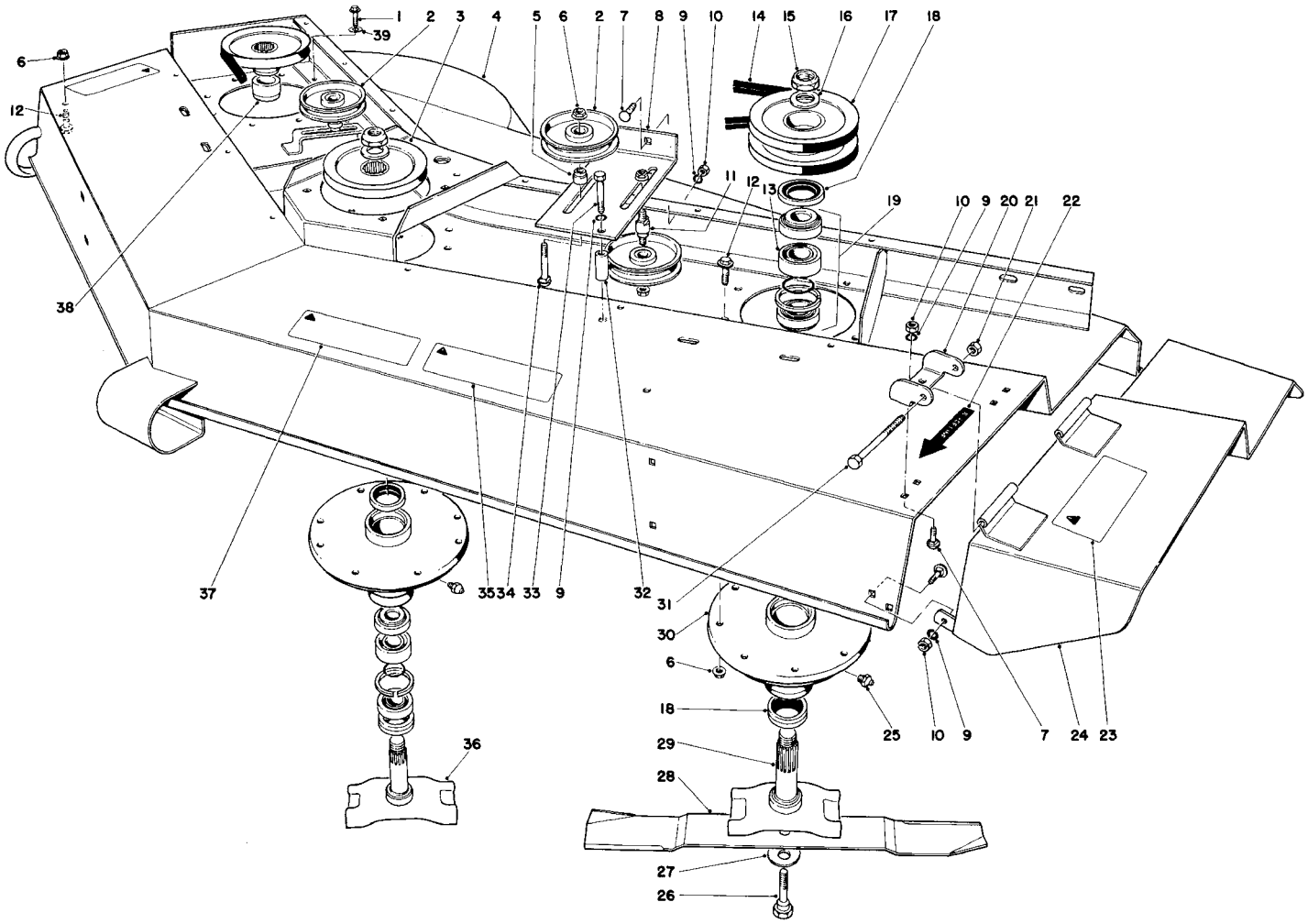
Ref. No.	Part No.	Description	No. Used
12	3253-4	Lockwasher	4
13	322-3	Capscrew	4
14	32107-11	Nut	2
15	27-7170	Band Assembly Mounting	2
16	3258-19	Round Hd. Machine Screw	2
17	27-7100	Air Cleaner Assembly (Incl. Ref. #3-8)	1
18	43-3810	Tube Air Cleaner	1
19	43-6430	Decal – Starting Fluid	1
20	27-7180	Cap Assembly – Air Inlet	1



PUSH ARM ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	21-3100	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	21-2910	Push Arm R.H. (Incl. Ref. #16 & 28)	1
10	3272-24	Cotter Pin	1
11	24-9510	Pin	1
12	40-7490	Warning Decal	1
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	324-5	Capscrew	2
20	3-7292	Pin	1

Ref. No.	Part No.	Description	No. Used
21	5-3126	Spring Pin	3
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	3296-48	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	36-4060	Decal Warning	2
37	3272-10	Cotter Pin	3
38	5-2942	Shackle	3
39	283-10	Pin	3

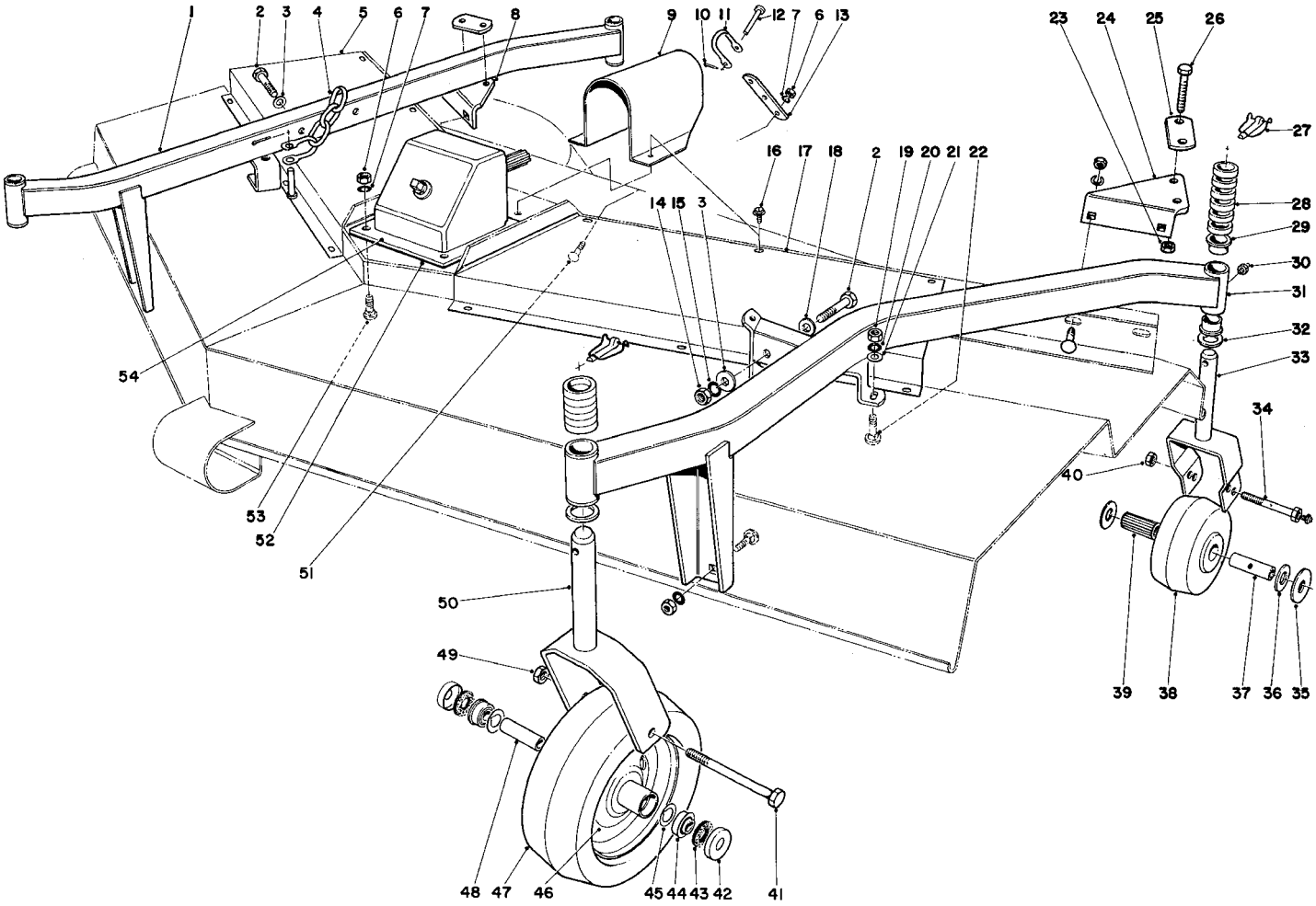


CUTTING UNIT MODEL NO. 30721

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	26-1130	Cutter Deck	1
5	26-1860	Spacer – Idler Pulley	2
6	32128-21	Flange Nut	31
7	3231-27	Carriage Bolt	8
8	26-1870	Idler Mount L.H.	1
9	3253-21	Lockwasher	9
10	3217-7	Nut	8
11	26-1850	Stud – Idler	1
12	3234-1	Hex Flange Screw	23
13	26-1730	Spacer Matched Set	3
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	26-1830	Bearing Assembly (Matched Set)	3
20	26-1950	Hinge Bracket	2

Ref. No.	Part No.	Description	No. Used
21	32146-13	Nut	2
22	26-7120	Blade Line Decal	1
23	26-7980	Decal – Caution Deflector	1
24	26-1910	Deflector	1
25	302-52	Grease Fitting	3
26	26-1820	Capscrew – Grade 8	3
27	26-1990	Washer – Belleville	3
28	29-5530	Blade	3
29	26-1690	Spindle Outer	2
30	26-1630	Spindle Housing	3
31	325-17	Capscrew	2
32	26-1880	Spacer – Idler Mount	1
33	323-12	Capscrew	1
34	3231-29	Carriage Bolt	2
35	26-7970	Decal – Caution	2
36	26-1680	Spindle Center	1
37	26-7960	Decal – Caution Blade Bolt	1
38	26-1790	Spacer R.H. Spindle	1
39	3256-24	Washer	A/R
*	23-2410	Blade High Lift (optional)	3

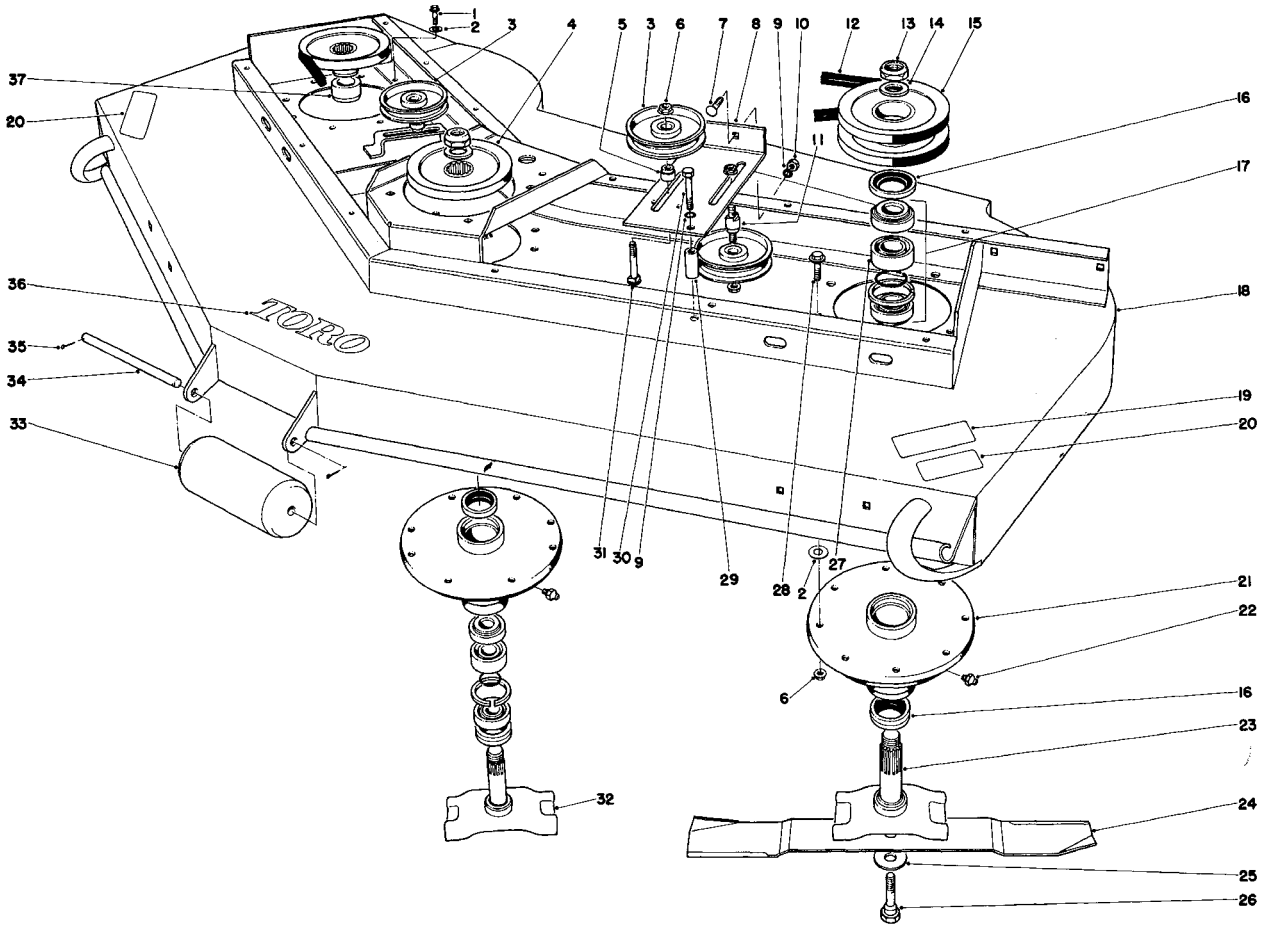
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CUTTING UNIT MODEL NO. 30721 (Continued)

Ref. No.	Part No.	Description	No. Used
1	26-1490	Caster Arm R.H. (Incl. Ref. #29)	1
2	324-12	Capscrew	4
3	3256-5	Flat Washer	4
4	21-3160	Lift Chain	3
5	26-1890	Cover – Deck R.H.	1
6	3217-7	Nut	6
7	3253-21	Lockwasher	6
8	39-3340	Bracket – Caster Arm Clamp	1
9	26-2250	Shroud Universal	1
10	3272-10	Cotter Pin	3
11	5-2942	Shackle	3
12	283-10	Pin	3
13	21-3770	Lift Strap	1
14	3217-8	Nut	2
15	3253-6	Lockwasher	2
16	32104-82	Self Tapping Screw	14
17	26-1900	Cover Deck L.H.	1
18	3256-25	Flat Washer	2
19	3217-9	Nut	12
20	3253-7	Lockwasher	12
21	3256-26	Flat Washer	4
22	3233-1	Carriage Bolt	12
23	3296-23	Nut	4
24	39-7450	Bracket – Caster Arm Clamp	1
25	39-3330	Bar – Caster Clamp	2
26	325-13	Capscrew	4
27	3290-384	Lynch Pin – Safety Type	4
28	26-1580	Spacer 1/2"	24

Ref. No.	Part No.	Description	No. Used
29	28-9290	Bushing – Special	8
30	302-5	Grease Fitting	4
31	26-1430	Caster Arm L.H. (Incl. Ref. #29)	1
32	3-6781	Washer	4
33	26-1560	Caster Fork Rear	2
34	21-3870	Axle	2
35	46-8970	Washer	4
36	46-9030	Retainer Bearing	4
37	21-1030	Spanner Bushing	2
38	21-3860	Wheel	2
39	21-3850	Roller Bearing	2
40	32146-11	Locknut	2
41	325-21	Capscrew	2
42	3-6778	Axle Slinger	4
43	3-6777	Felt Washer	4
44	251-181	Bearing	4
45	3-6775	Washer	4
46	11-2929	Caster Wheel & Tire (Incl. Ref. #47)	2
47	46-6230	Tire	2
48	3-6776	Spacer	2
49	32146-13	Nut	2
50	26-1530	Castor Fork – Front	2
51	3231-27	Carriage Bolt	2
52	38-5780	Spacer	A/R
53	3231-22	Carriage Bolt	4
54	8-0909	Gear Case Assembly	1

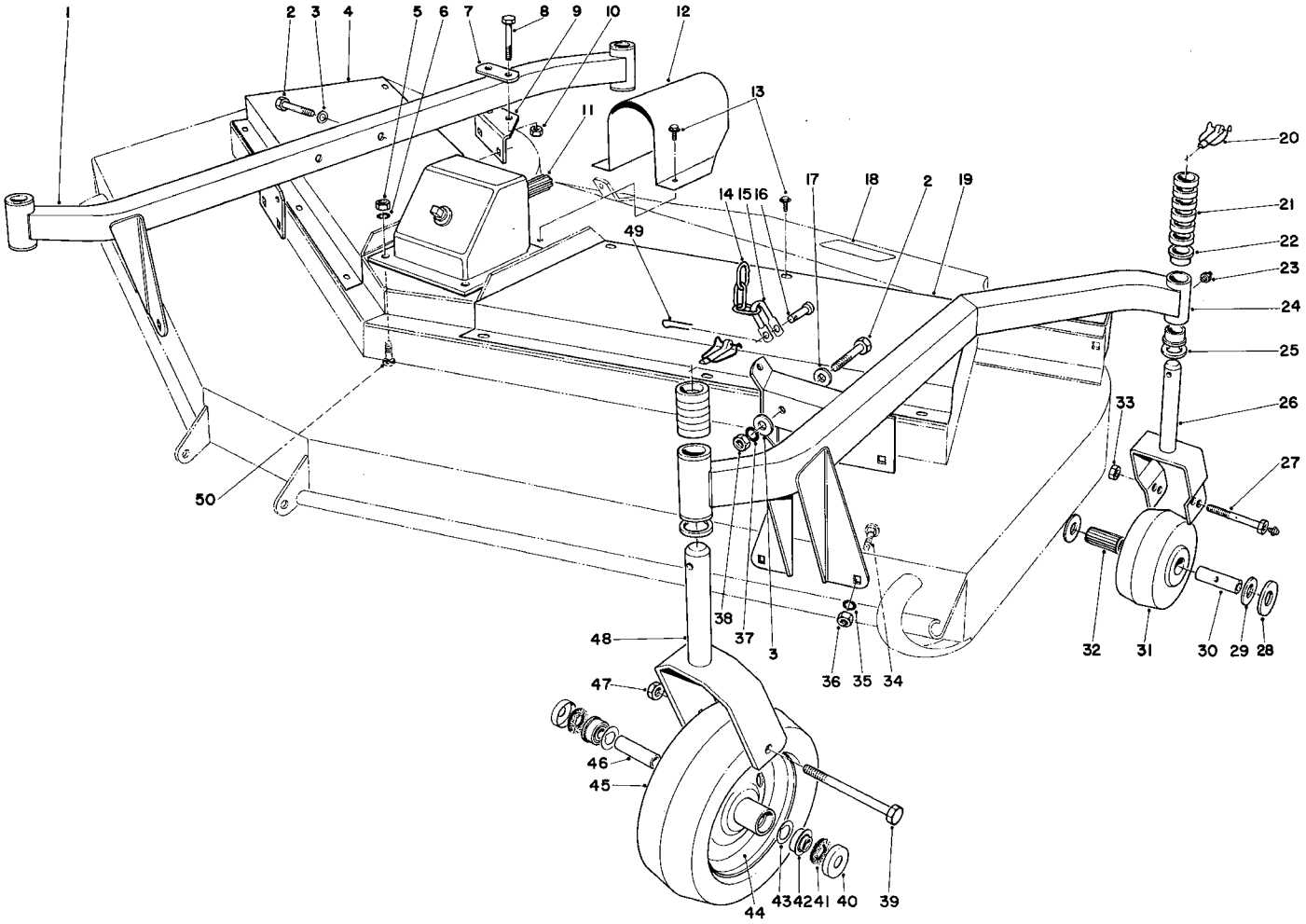


CUTTING UNIT MODEL NO. 30710

Ref. No.	Part No.	Description	No. Used
1	3234-11	Hex Flange Screw	4
2	3256-24	Washer	A/R
3	26-1840	Idler Pulley	3
4	26-1760	Pulley	2
5	26-1860	Spacer – Idler Pulley	2
6	32128-21	Flange Nut	28
7	3231-22	Carriage Bolt	2
8	26-1870	Idler Mount L.H.	1
9	3253-21	Lockwasher	3
10	3217-7	Nut	2
11	26-1850	Stud Idler	1
12	21-0890	V-Belt	3
13	3296-49	Nut	3
14	3-8514	Washer	3
15	26-9100	Pulley L.H.	1
16	253-138	Oil Seal	9
17†	26-1830	Bearing Assembly (Matched Set)	3
18	38-9200	Cutter Deck	1
19	26-7960	Decal – Caution (Blade Bolt)	1

Ref. No.	Part No.	Description	No. Used
20	26-7970	Decal – Caution (Rotating Blades)	2
21	26-1630	Spindle Housing	3
22	302-52	Grease Fitting	3
23	26-1690	Spindle Outer	2
24	29-5530	Blade	3
25	26-1990	Washer Belleville	3
26	26-1820	Capscrew	3
27	26-1730	Spacers – Matched Set	3
28	3234-1	Hex Flange Screw	20
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	31-0750	Roller	1
34	32-9610	Roller Shaft	1
35	3272-11	Cotter Pin	2
36	20-4690	Decal – Toro	1
37	26-1790	Spacer R.H. Spindle	1
*	23-2410	Blade – High Lift (optional)	3

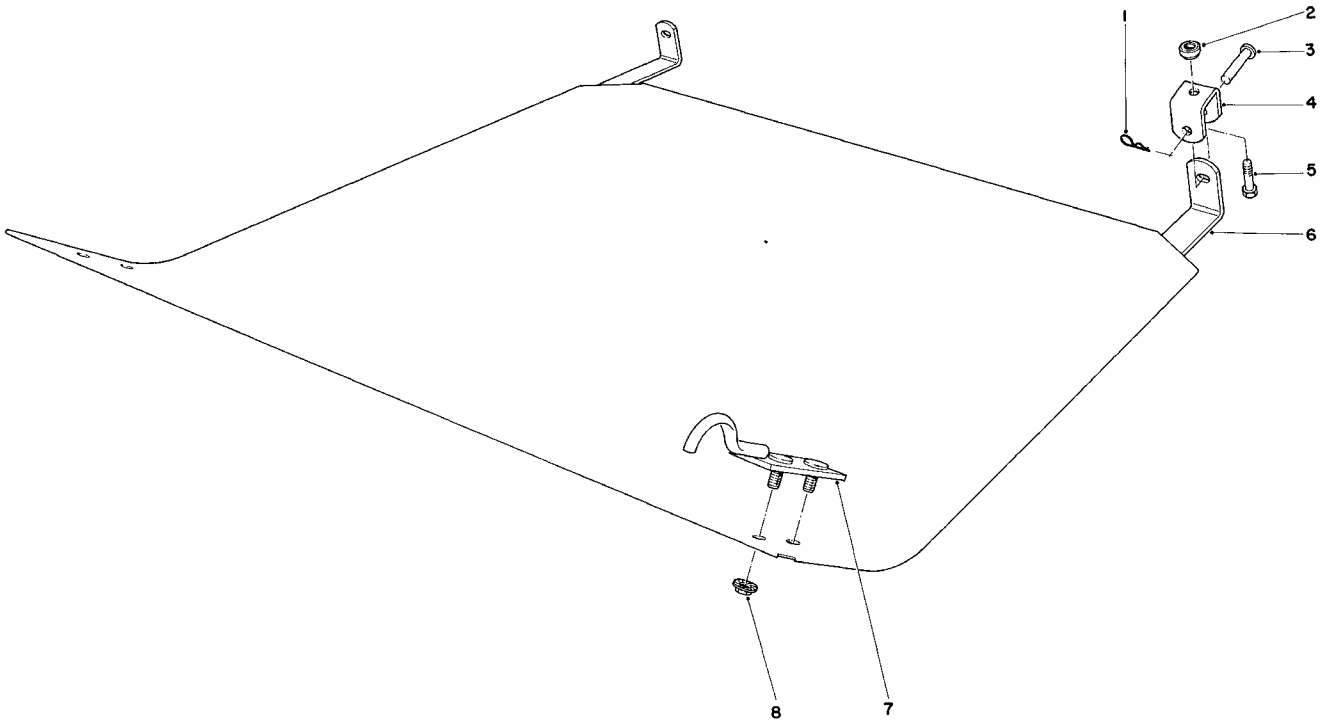
†Does not incl. Ref. #27
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CUTTING UNIT MODEL NO. 30710 (Continued)

Ref. No.	Part No.	Description	No. Used
1	38-9370	Castor 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	3217-7	Nut	4
6	3253-21	Lockwasher	4
7	39-3330	Bar-Castor Arm Clamp	1
8	325-13	Capscrew	2
9	39-3340	Bracket-Castor Arm Clamp	1
10	3296-23	Locknut	2
11	8-0909	Gear Box Assembly	1
12	26-2250	Shroud Universal	1
13	32104-82	Self Tapping Screw	14
14	21-3160	Lift Chain	3
15	5-2942	Shackle	3
16	283-10	Pin	3
17	3256-25	Flat Washer	2
18	26-7970	Decal-Caution (Rotating Blades)	1
19	26-1900	Cover Deck L.H.	1
20	3290-384	Lynch Pin Safety Type	4
21	26-1580	Spacer 1/2"	24
22	28-9290	Bushing – Special	8
23	302-5	Grease Fitting	4
24	38-9420	Castor Arm L.H. (Incl. Ref. #22)	1
25	3-6781	Washer	4

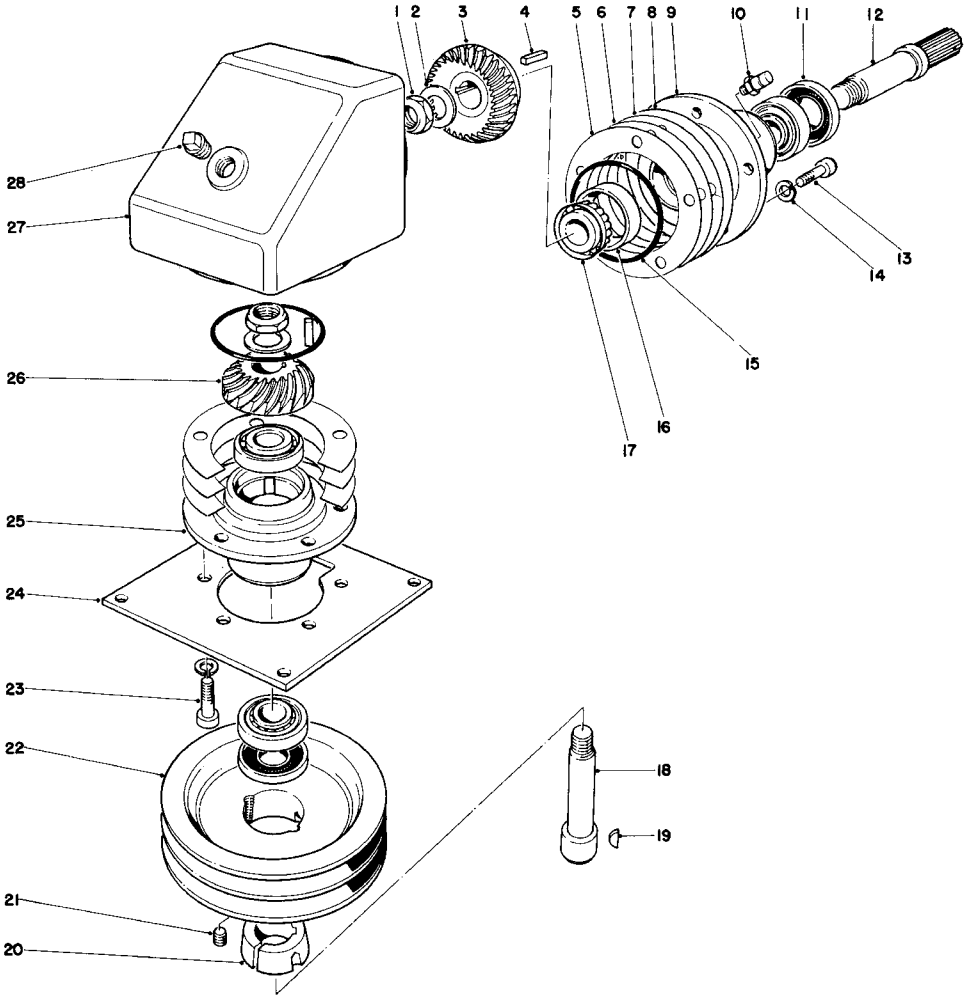
Ref. No.	Part No.	Description	No. Used
26	26-1560	Castor Fork – Rear	2
27	21-3870	Axle	2
28	46-8970	Washer	4
29	46-9030	Retainer Bearing	4
30	21-1030	Spanner Bushing	2
31	21-3860	Wheel	2
32	21-3850	Roller Bearing	2
33	32146-11	Locknut	2
34	3233-1	Carriage Bolt	12
35	3253-7	Lockwasher	12
36	3217-9	Nut	12
37	3253-6	Lockwasher	4
38	3217-8	Nut	4
39	325-21	Capscrew	2
40	3-6778	Axle Slinger	4
41	3-6777	Felt Washer	4
42	251-181	Bearing	4
43	3-6775	Washer	4
44	11-2929	Castor Wheel (Incl. Ref. #45)	2
45	46-6230	Tire	2
46	3-6776	Spacer	2
47	32146-13	Nut	2
48	26-1530	Castor Fork	2
49	3272-10	Cotter Pin	3
50	3231-22	Carriage Bolt	4



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

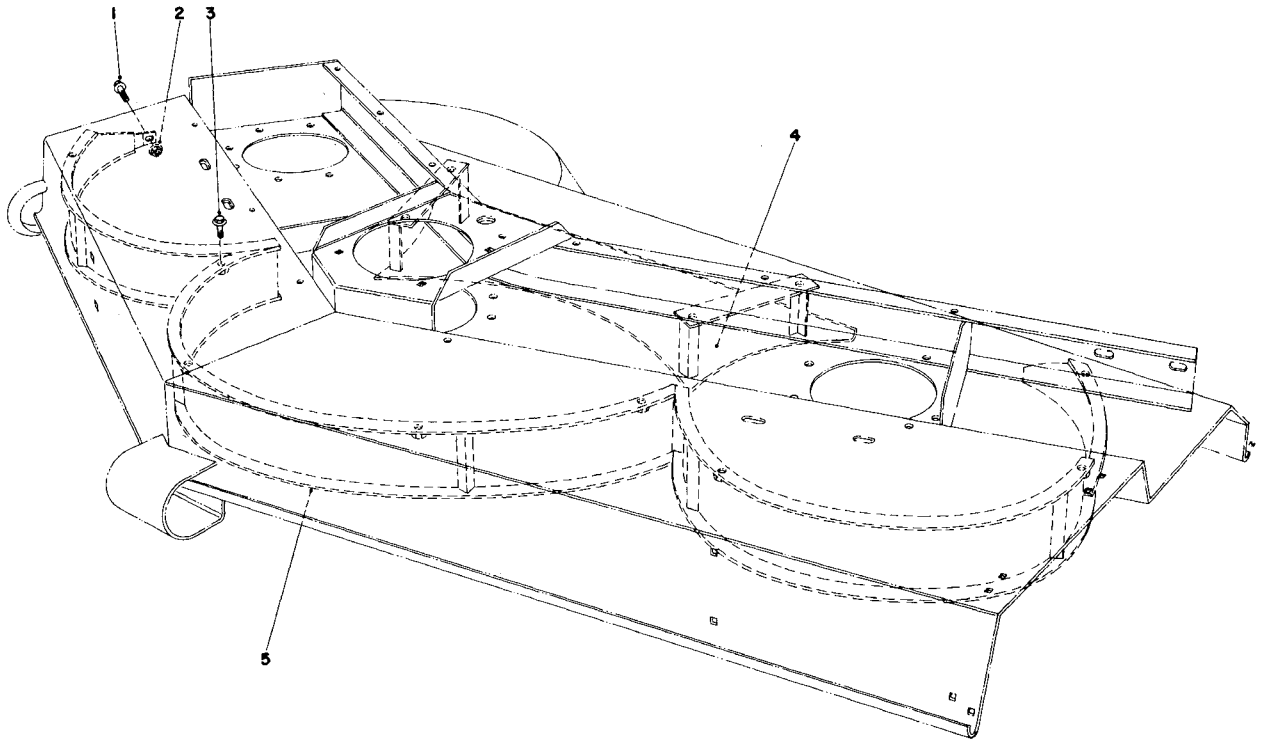


CUTTING UNIT MODEL NO. 30721 & 30710

Ref. No.	Part No.	Description	No. Used
1	3296-15	Nut	2
2	3-6514	Thrust – Washer	2
3	26-1340	Gear – Input	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
13	3274-7	Socket Hd. Capscrews	5
14	3253-21	Lockwasher	10
15	237-97	O-Ring	2

Ref. No.	Part No.	Description	No. Used
16	254-90	Bearing Cup	4
17	254-91	Bearing Cone	4
18	26-1320	Shaft – Output	1
19	3257-5	Key Woodruff	1
20	23-1640	Bushing-Taper Lock (Incl.Ref.#21)	1
21	3247-4	Setscrews	2
22	26-1400	Pulley Deck	1
23	3274-1	Socket Hd. Capscrew	5
24	26-1390	Mounting Plate Gear Box	1
25	26-1380	Bearing Housing – Output	1
26	26-1330	Gear – Output	1
27	26-1270	Gear Box	1
28	281-11	Sq. Hd. Pipe Plug W/Magnet	1
*	8-0909	Gear Case Assembly (Incl. Ref. #1-19 & 23-28)	1

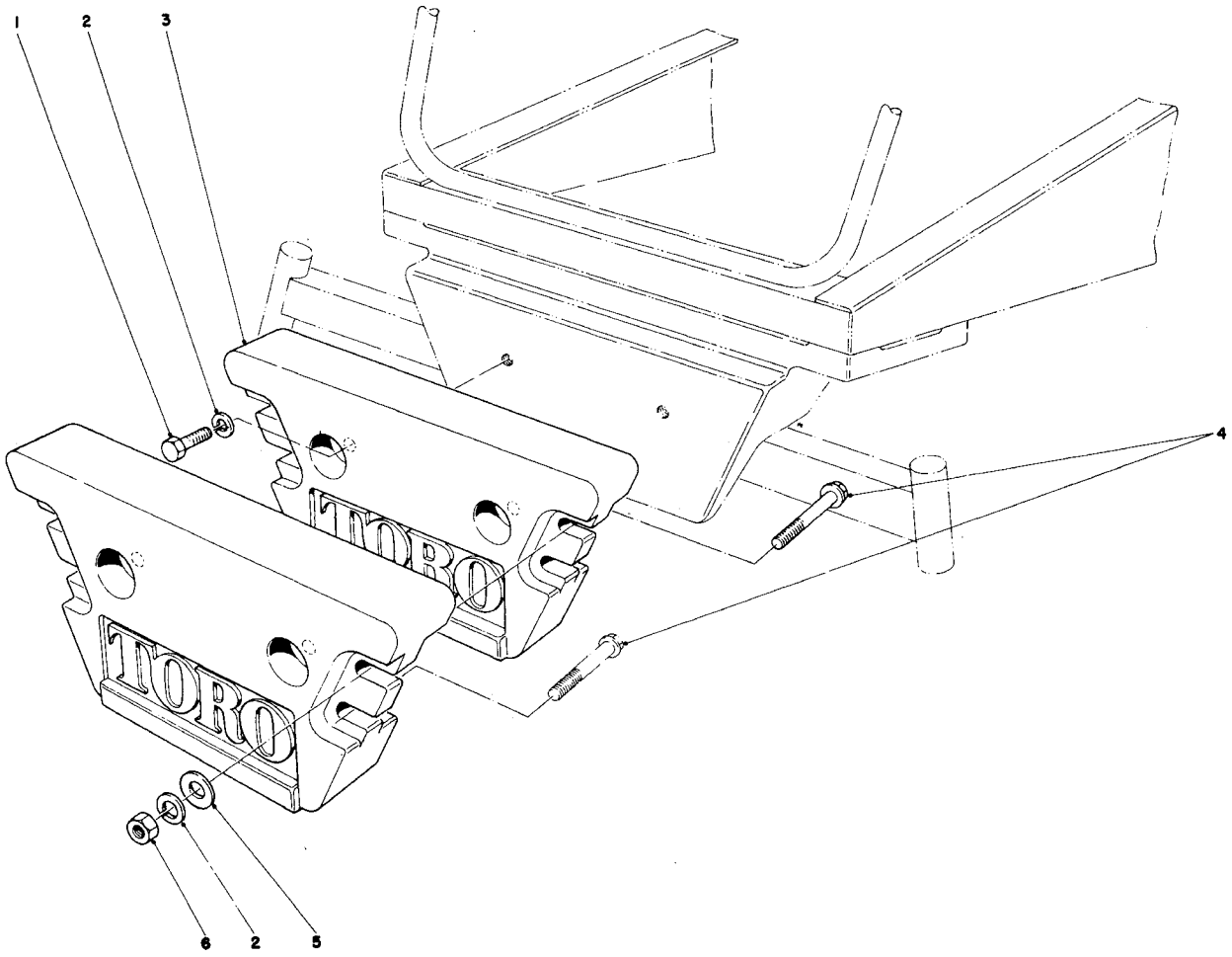
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MULCHER KIT MODEL NO. 30732 (Optional)

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

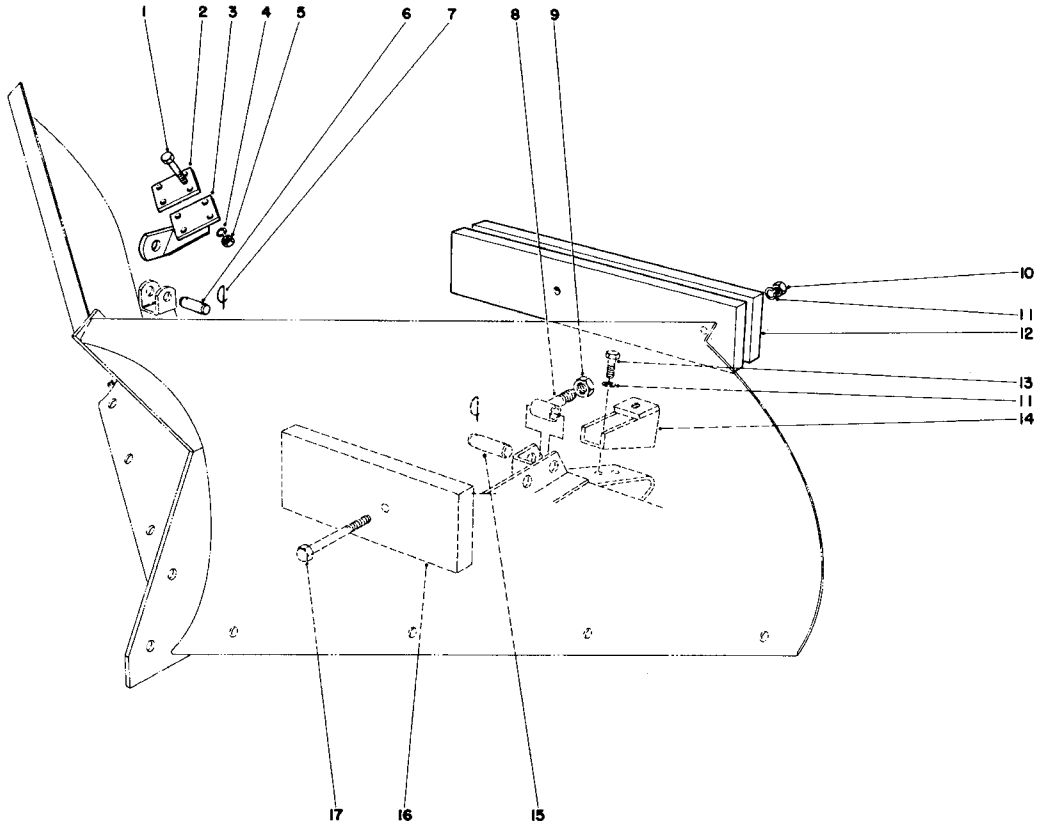
Ref. No.	Part No.	Description	No. Used
4	23-4190	Bottom Rear Shield	1
5	27-5430	Mulcher Screen	1



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

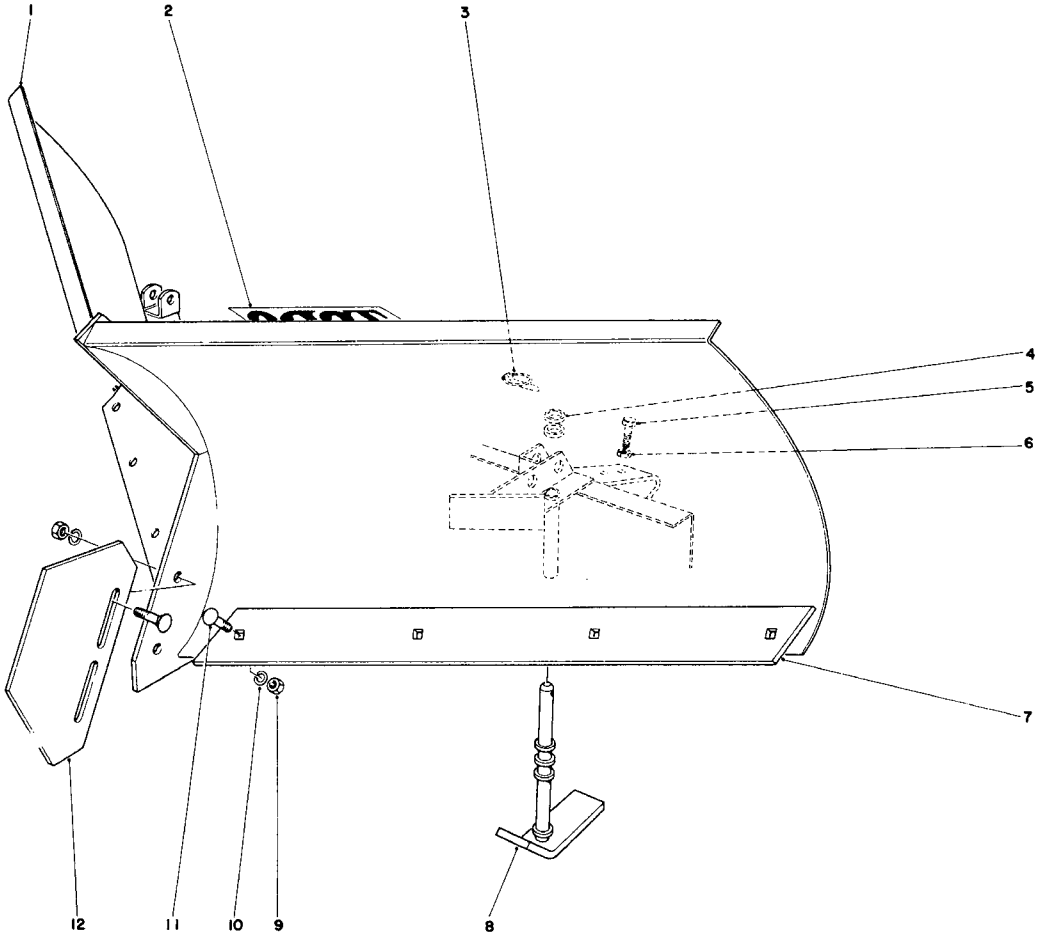


V-PLOW INSTALLATION KIT MODEL NO. 30757 (Optional)

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

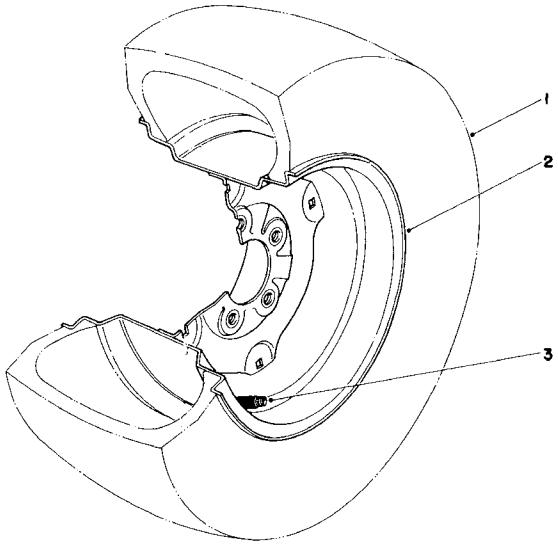
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V-PLOW MODEL NO. 30750 (Optional)

Ref. No.	Part No.	Description	No. Used
1	23-9960	V-Plow	1
2	18-2180	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

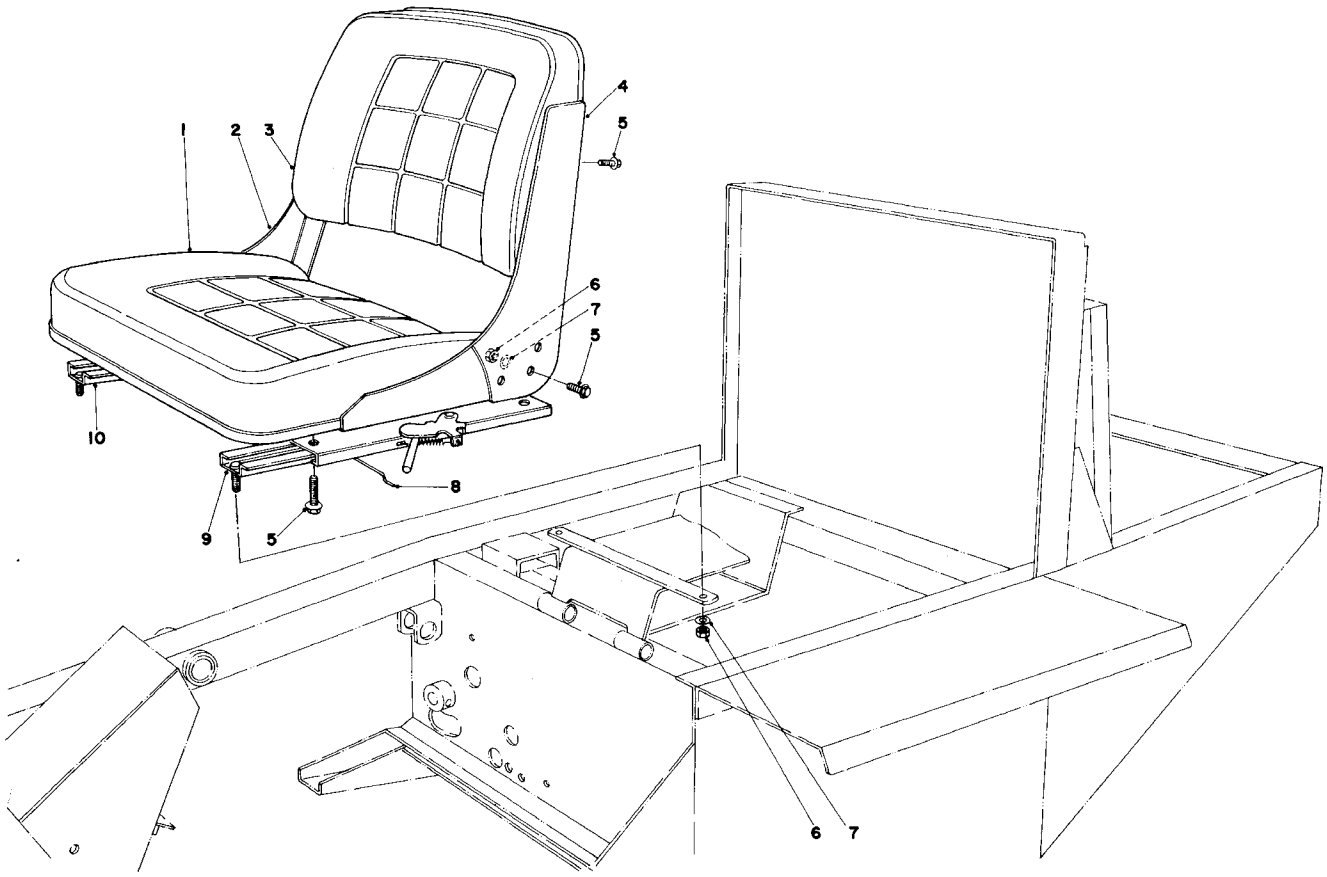
Ref. No.	Part No.	Description	No. Used
7	24-5570	Scraper Blade	2
8	24-5540	Skid	2
9	3217-9	Nut	10
10	3253-7	Lockwasher	10
11	3233-2	Carriage Bolt	10
12	24-5530	Nose Skid	1



TIRE & WHEEL ASSEMBLY 23 X 10.50 X 12 (Optional) NO. 36-1050

Ref. No.	Part No.	Description	No. Used
1	231-95	Tire	1
2	242-62	Rim	1

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

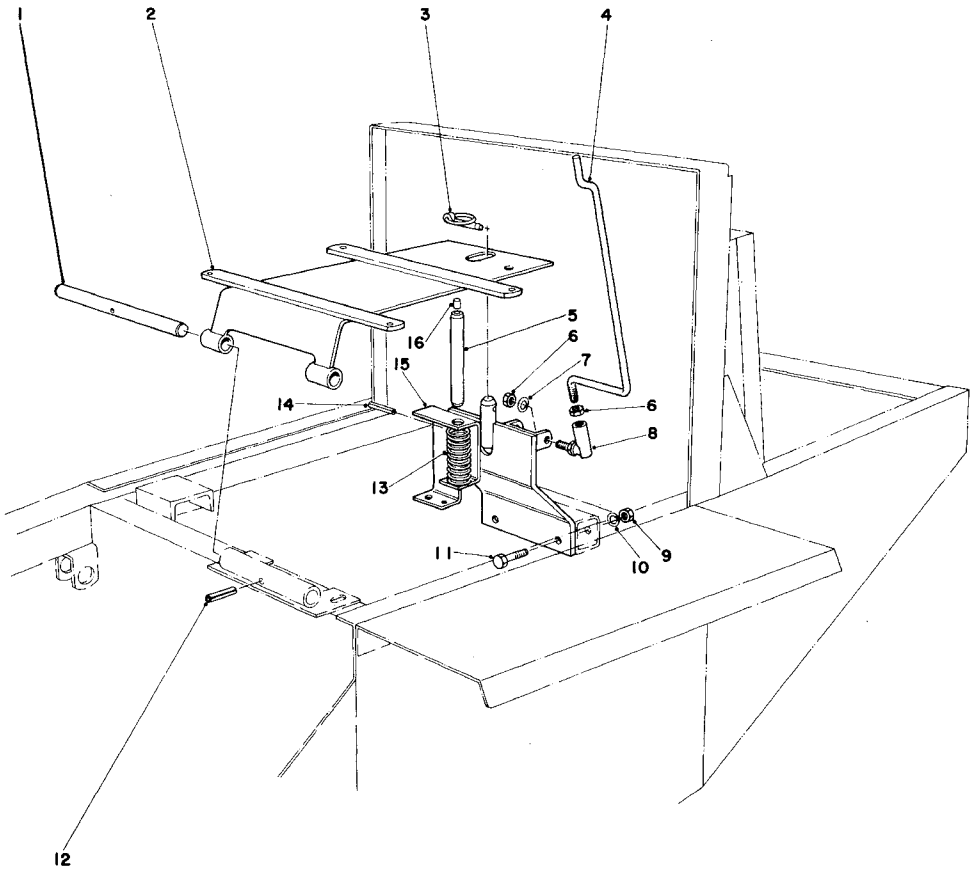


STANDARD SEAT KIT MODEL NO. 30785

Ref. No.	Part No.	Description	No. Used
1	351-59	Seat Cushion	1
2	351-64	Rail R.H.	1
3	351-60	Backrest	1
4	351-65	Rail L.H.	1
5	3234-5	Hex Flange Screw	14
6	3217-6	Nut	8

Ref. No.	Part No.	Description	No. Used
7	3253-4	Lockwasher	8
8	351-61	Connecting Rod	1
9	351-63	Adjuster L.H.	1
10	351-62	Adjuster R.H.	1
*	21-4880	Seat Assembly (Incl. Ref.# 1-10)	1

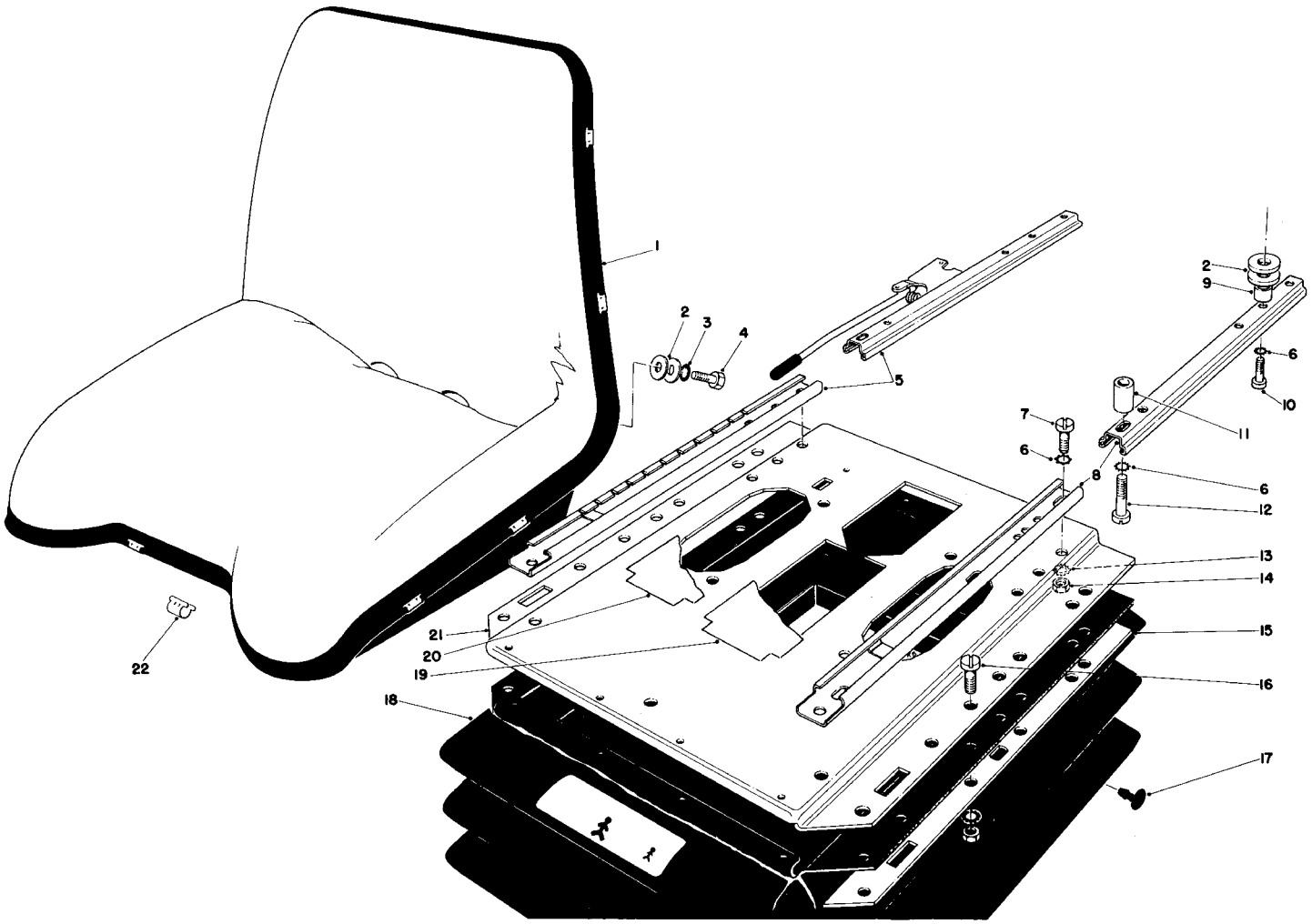
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STANDARD SEAT KIT MODEL NO. 30785 (Continued)

Ref. No.	Part No.	Description	No. Used
1	27-4720	Shaft	1
2	36-7550	Seat Support	1
3	3290-243	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	3217-7	Nut	2
10	3253-21	Lockwasher	2
11	323-12	Capscrew	2
12	32121-4	Spring Pin	1
13	28-0570	Spring Compression	1
14	32121-6	Spring Pin	1
15	27-9830	Seat Support Bracket	1
16	28-6180	Pin – Plastic	1

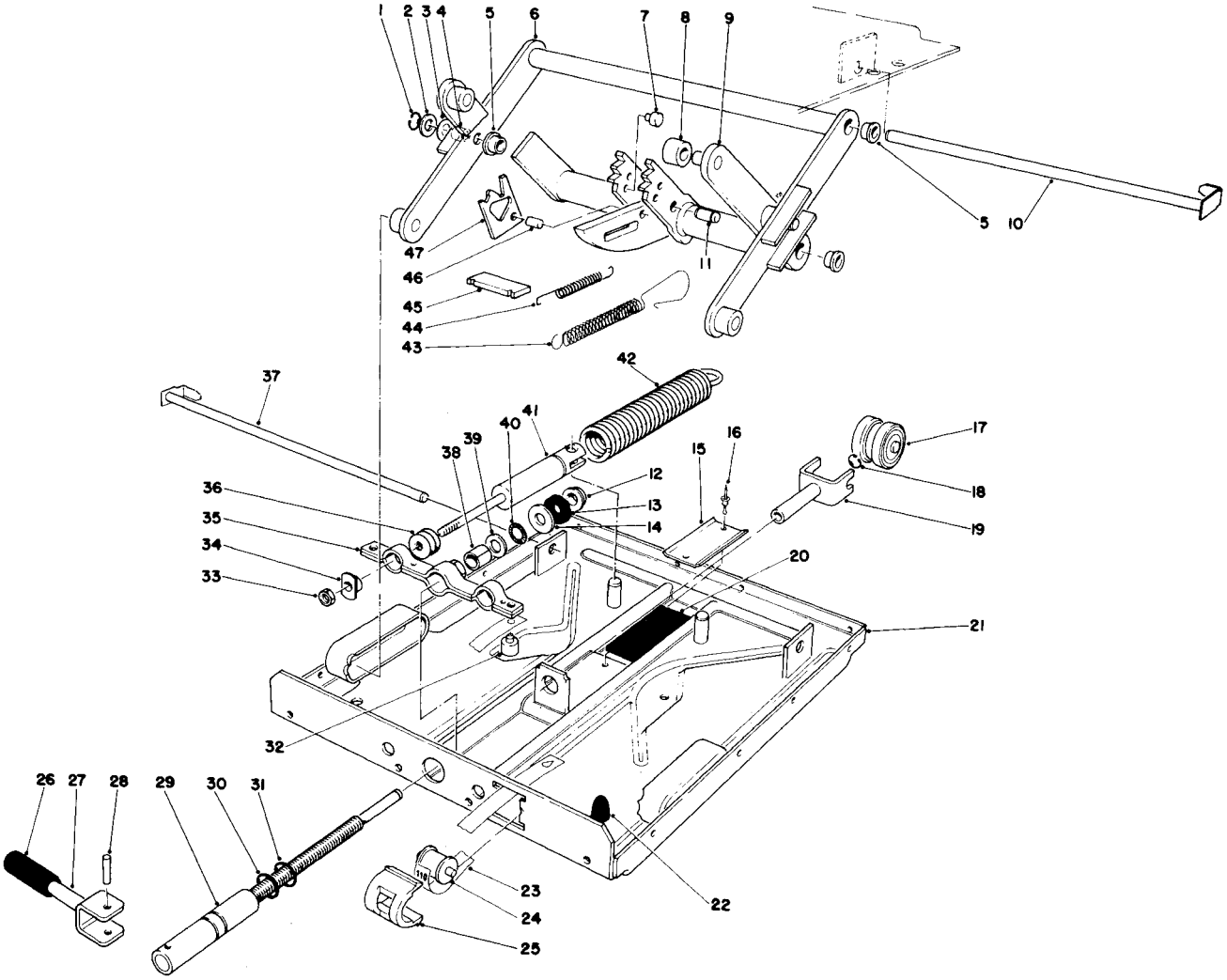


DELUXE SEAT KIT MODEL NO. 30786

Ref. No.	Part No.	Description	No. Used
1	39-5730	Seat Bucket Complete	1
2	39-5690	Washer 13 MM	8
3	39-5680	Serrated Washer	2
4	39-5670	Capscrew 7/16 – 20 U.N.F.	2
5	40-3790	Adjustment Track & Latch	1
6	40-3800	Serrated Washer	8
7	40-3810	Cylinder Bolt M8X16	4
8	40-3820	Adjustment Track	1
9	40-3830	Sleeve	2
10	40-3840	Cylinder Bolt M8X25MM	2
11	40-3850	Sleeve	2
12	40-3860	Cylinder Bolt	2

Ref. No.	Part No.	Description	No. Used
13	40-3870	Spring Washer	6
14	40-3880	Nut M8	6
15	40-3890	Trim	2
16	39-9220	Capscrew M8X16	6
17	39-5710	Plug	24
18	40-3900	Rubber Bellows	1
19	40-3910	Cover – Center	1
20	40-3920	Cover	2
21	40-3930	Upper Suspension Plate Complete	1
22	39-9540	Outside Bead Clip	13
*	37-9630	Seat ASM – Complete	1

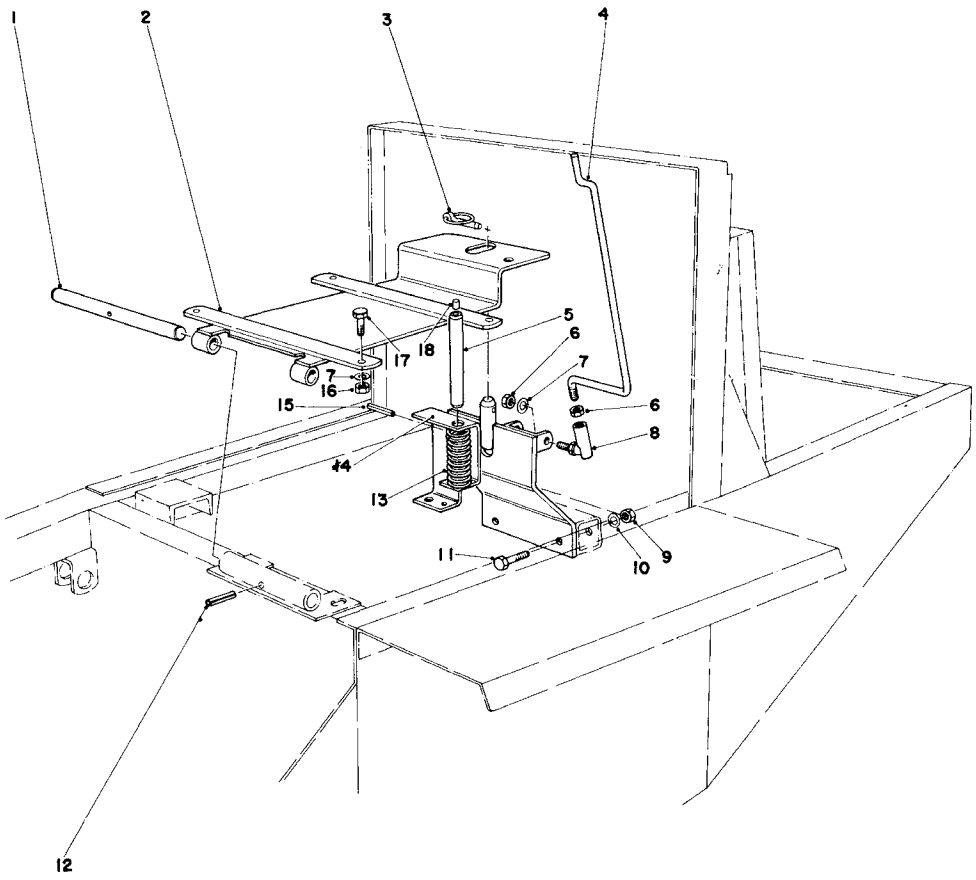
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DELUXE SEAT KIT MODEL NO. 30786 (Continued)

Ref. No.	Part No.	Description	No. Used
1	40-3950	Washer	2
2	39-9500	Washer 13 MM	2
3	40-3960	Washer	2
4	40-3970	Bearing Bushing	2
5	40-3980	Bearing	4
6	40-3990	Swing Arm – Outside	1
7	40-4000	Bolt	2
8	40-4010	Roller	4
9	40-4020	Swing Arm Inside	1
10	40-4030	Pin	1
11	40-4040	Grooved Locking Pin 08X16MM	2
12	40-4050	Sleeve	1
13	40-4060	Rubber Washer	1
14	40-4070	Washer 8 MM	1
15	40-4080	U-Track	1
16	40-4090	Plate 4 x 10MM	2
17	40-4100	Trible-Bearing	1
18	39-9310	Retaining Ring	1
19	40-4110	Fork	1
20	40-4120	Rubber Plate	1
21	40-4130	Lower Suspension Plate – Complete (Incl. Ref. #15-16 & 20)	1
22	39-9520	Rubber Bumper	2

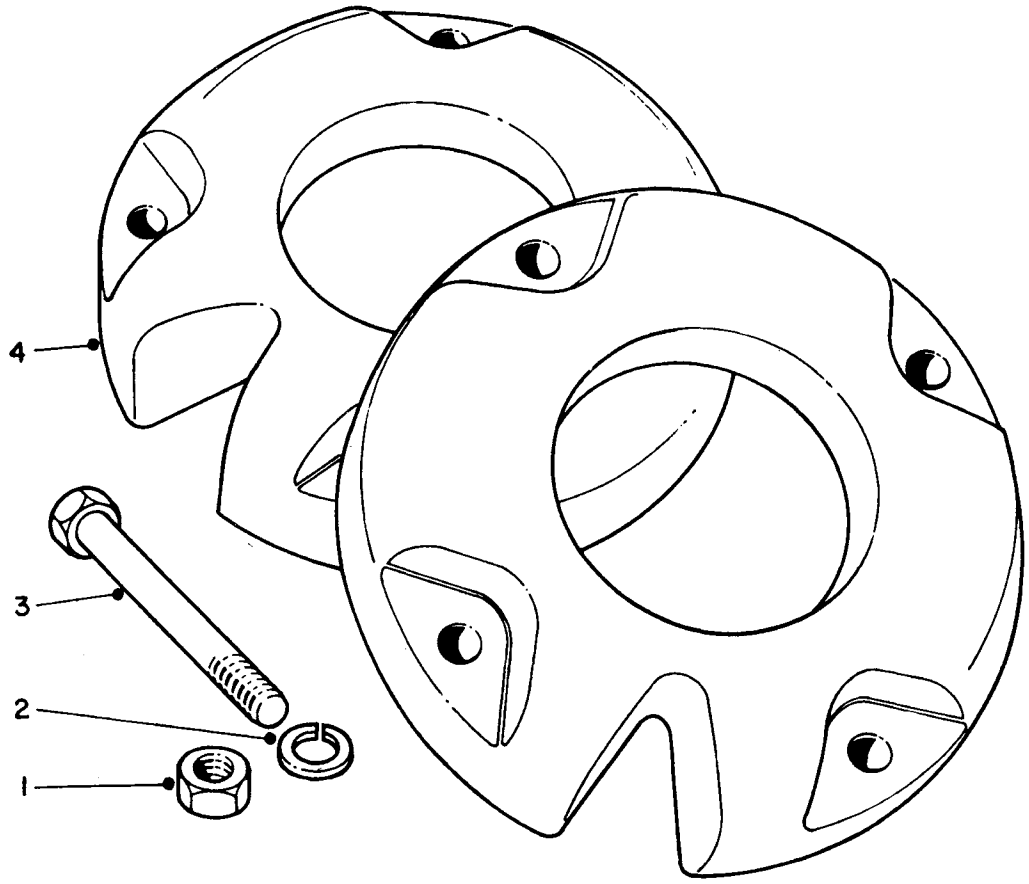
Ref. No.	Part No.	Description	No. Used
23	40-4140	Weight Indicator Band	1
24	40-4150	Roller	1
25	40-4160	Guide Sleeve	1
26	40-4170	Handle	1
27	40-4180	Toggle	1
28	40-4190	Grooved Pin 5X28MM	1
29	40-4200	Pin	1
30	40-4210	Rubber Ring 14MM Black	1
31	40-4220	Rubber Ring 14MM Red	1
32	40-4230	Plug	1
33	40-4240	Nut	2
34	40-4250	Weld Nut	2
35	40-4260	Spring Bracket	1
36	40-4270	Threaded Rod	2
37	40-4280	Pin	1
38	40-4290	Sleeve 14 x 1 x 19MM	1
39	40-4300	Washer	1
40	40-4310	Thrust Needle Bearing	1
41	40-4320	Shock Absorber	2
42	40-4330	Coil Spring	2
43	40-4340	Coil Spring	1
44	40-4350	Coil Spring	2
45	40-4360	Plate	1
46	40-4370	Bolt	1
47	40-4380	Release Bracket	2



DELUXE SEAT KIT MODEL NO. 30786 (Continued)

Ref. No.	Part No.	Description	No. Used
1	27-4720	Shaft	1
2	37-9600	Seat Support	1
3	3290-243	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	5
8	37-9570	Ball Joint	1
9	3217-7	Nut	2

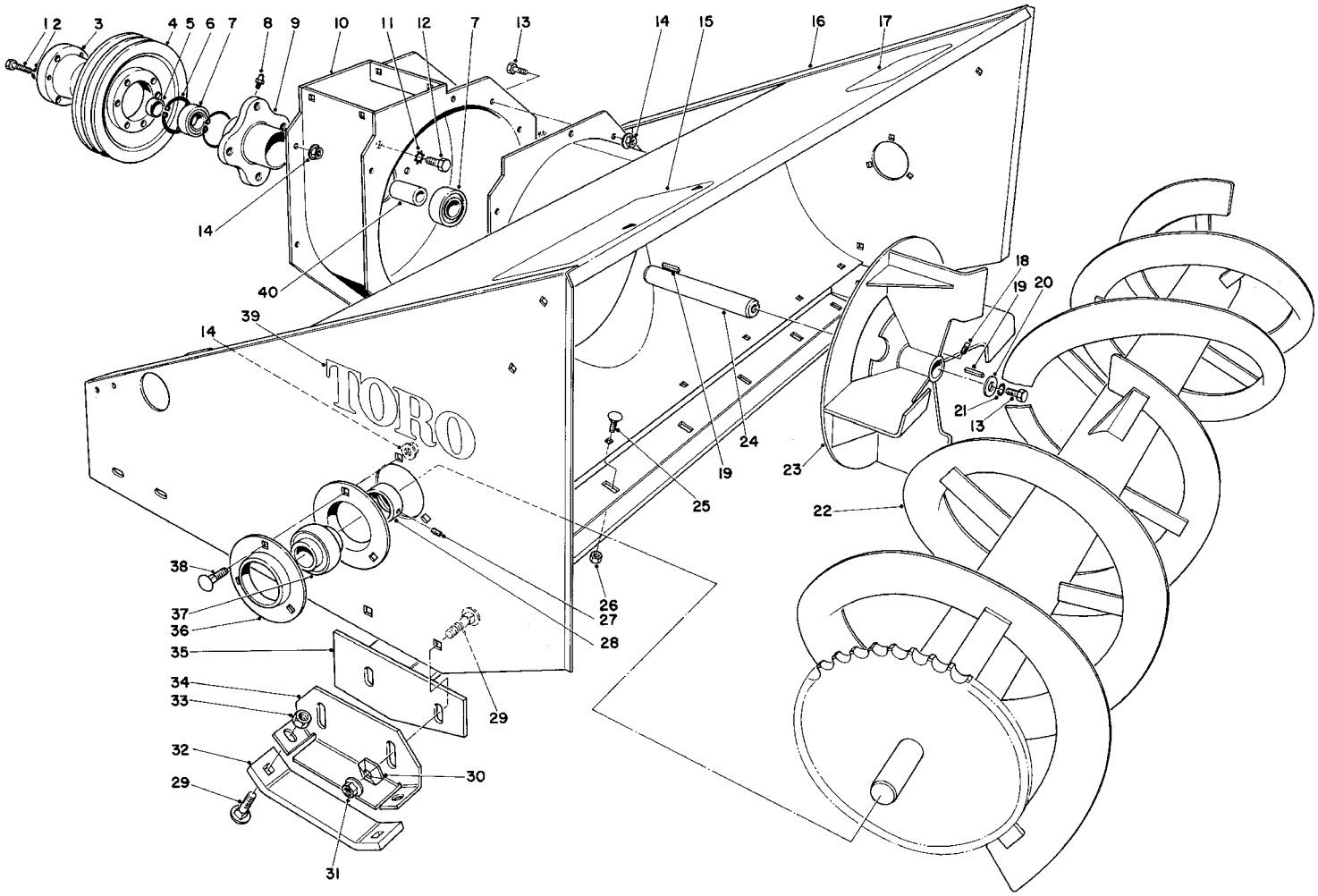
Ref. No.	Part No.	Description	No. Used
10	3253-21	Lockwasher	2
11	323-12	Capscrew	2
12	32121-4	Spring Pin	1
13	37-9590	Spring Compression	1
14	27-9830	Seat Support Bracket	1
15	32121-6	Spring Pin	1
16	3217-6	Nut	4
17	322-4	Capscrew	4
18	28-6180	Pin – Plastic	1



WHEEL WEIGHTS MODEL NO. 11-0440 (Optional)

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

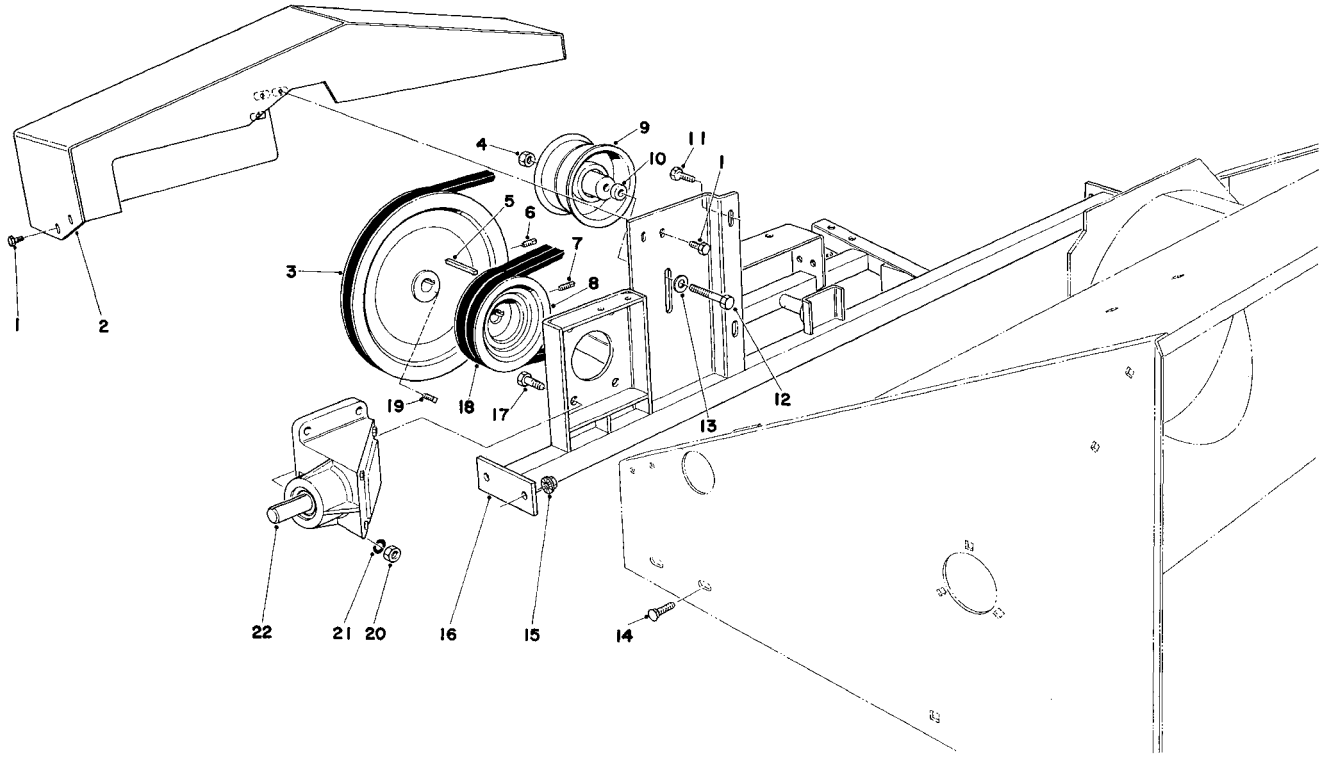
Ref. No.	Part No.	Description	No. Used
3	325-14	Capscrew	8
4	7-2111	Wheel Weight	2



48" SNOWTHROWER MODEL NO. 30570 (Optional)

Ref. No.	Part No.	Description	No. Used
1	321-3	Screw, Cap Hex Hd.	3
2	3253-3	Lockwasher	3
3	46-3650	Hub – "QD" (Incl. Ref. #1 & 2)	1
4	46-3640	Pulley – "QD"	1
5	37-5170	Spacer	1
6	32151-20	Snap Ring	2
7	251-276	Bearing	2
8	302-11	Grease Fitting	1
9	32-4950	Housing Spindle	1
10	39-5030	Blower Housing	1
11	3255-2	Lockwasher	4
12	3213-20	Capscrew	4
13	322-3	Capscrew	9
14	32128-20	Flange Nut	16
15	46-5860	Decal – Rear Weight	1
16	39-5010	Auger Housing	1
17	29-6350	Decal – Warning	1
18	3243-1	Square Head Setscrew	2
19	31-0700	Square Key	2
20	3-6715	Flat Washer	1

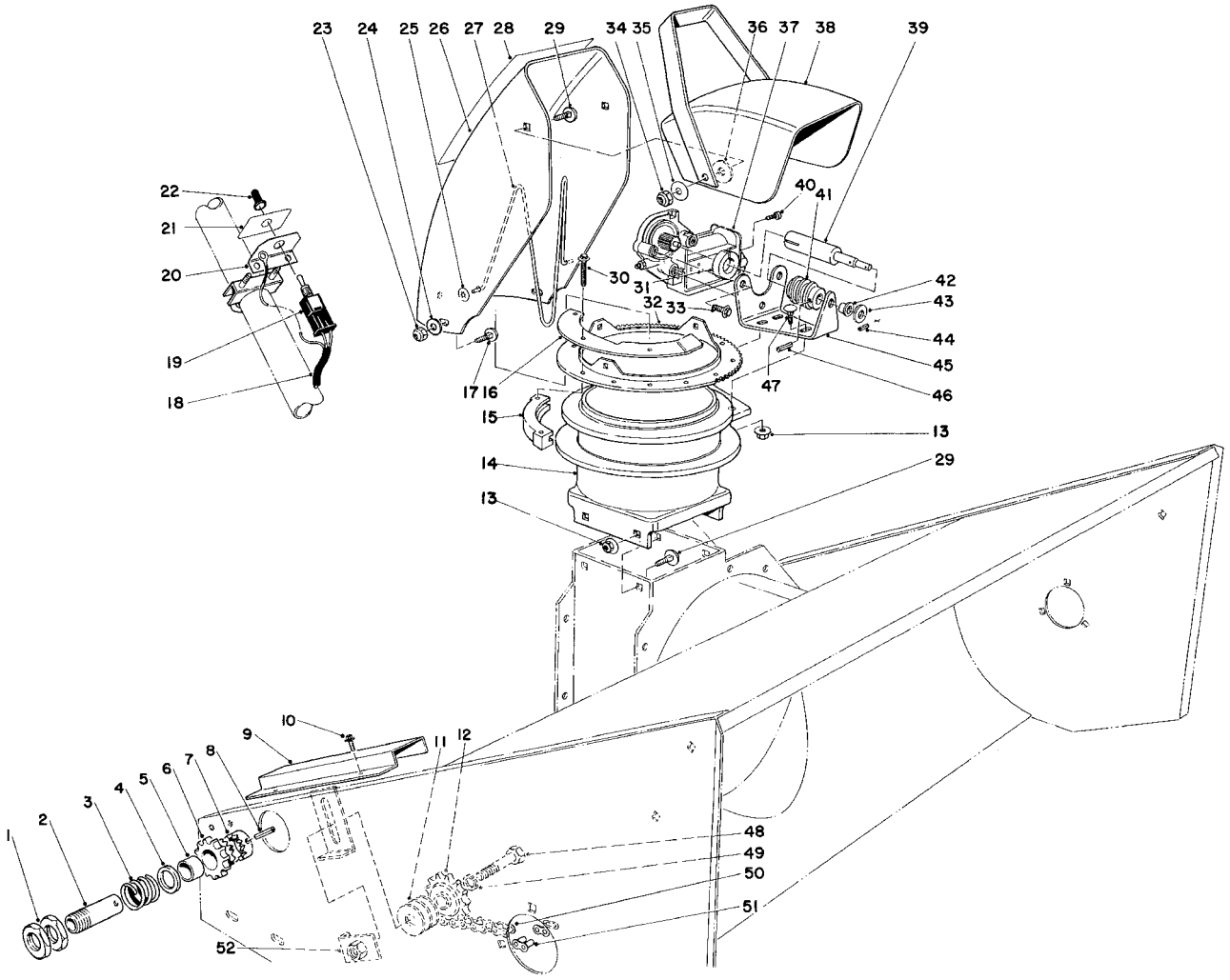
Ref. No.	Part No.	Description	No. Used
21	3253-4	Lockwasher	1
22	32-6140	Auger	1
23	32-6130	Impeller	1
24	37-5240	Shaft – Impeller	1
25	3230-19	Carriage Bolt	7
26	3296-47	Locknut	7
27	3245-1	Set Screw	2
28	251-77	Locking Collar	2
29	3231-2	Carriage Bolt	8
30	3290-224	Pyramidal Lockwasher	4
31	32128-18	Flange Nut	4
32	37-5110	Skid – Shoe	2
33	32152-2	Locknut	4
34	37-4950	Skid – Mount Plate	2
35	37-5380	Scraper	1
36	251-287	Flange	4
37	251-253	Bearing (Incl. Ref. #27 & 28)	2
38	3230-18	Carriage Bolt	6
39	27-4600	Decal – Toro	2
40	31-0540	Sleeve	1



48" SNOWTHROWER MODEL NO. 30570 (Optional) (Continued)

Ref. No.	Part No.	Description	No. Used
1	3234-13	Flange Screw	4
2	39-4560	Belt Shield	1
3	32-4480	Sheave	1
4	32152-2	Locknut	1
5	3-0971	Key	1
6	3242-2	Sq. Hd. Setscrew	1
7	3242-6	Sq. Hd. Setscrew	2
8	37-5090	Pulley – Gear Box	1
9	37-5760	Idler Pulley	1
10	37-5210	Spacer – Idler	1
11	322-3	Capscrew	2

Ref. No.	Part No.	Description	No. Used
12	323-11	Capscrew	1
13	3256-3	Flatwasher	1
14	3231-30	Carriage Bolt	4
15	3290-357	Hex Locknut	4
16	37-5400	Cross Brace	1
17	323-7	Capscrew	4
18	37-5670	V-Belt (Matched Set of 2)	1
19	3242-4	Sq. Hd. Setscrew	1
20	3217-7	Hexnut	4
21	3253-21	Lockwasher	4
22	37-5410	Gear Box Assembly	1

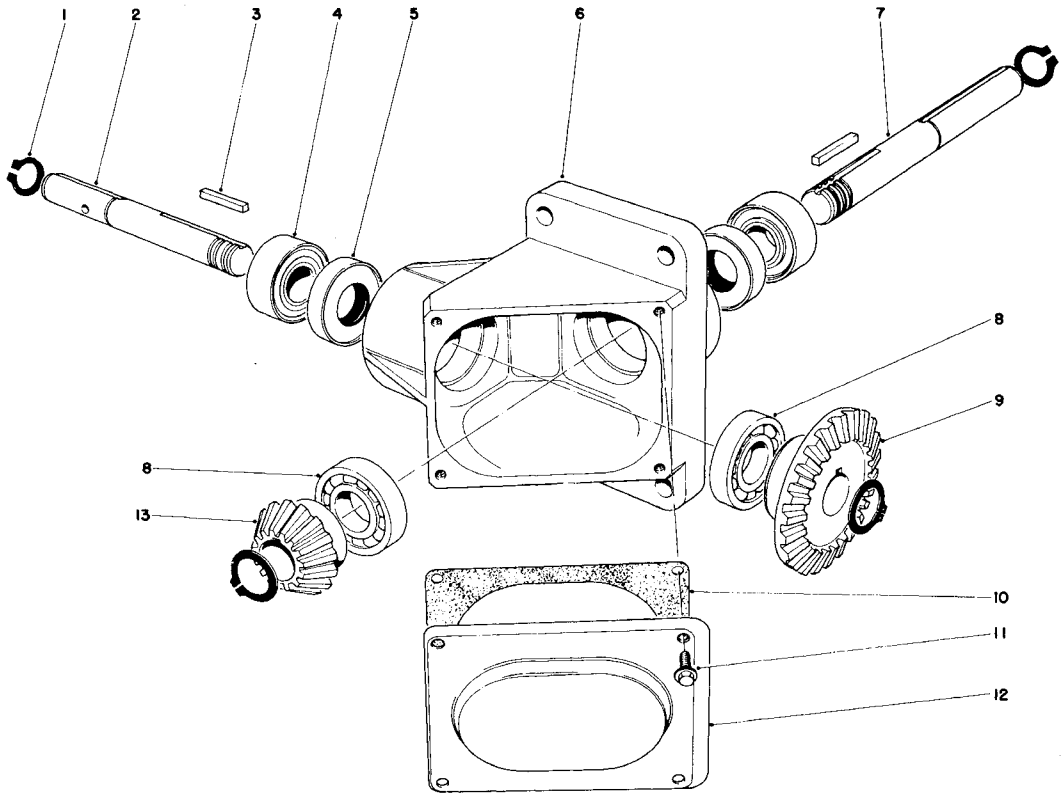


48" SNOWTHROWER MODEL NO. 30570 (Optional)

Ref. No.	Part No.	Description	No. Used
1	37-5720	Nut – Thin	2
2		Clutch Sleeve	1
3		Spring Compression	1
4		Spacer	1
5		Bushing	1
6		Clutch Sprocket	1
7		Clutch Collar	1
8	32121-34	Roll Pin	1
9	32-1620	Chain Cover	1
10	32104-76	Self-Tapping Screw	2
11	3256-7	Flatwasher	3
12	30-0090	Idler Sprocket	1
13	3290-357	Locknut	7
14	39-4870	Chute Transition	1
15	25-5450	Swivel Block	6
16	39-4900	Stop-Chute Rotator	1
17	3230-18	Carriage Bolt	3
18	39-4990	Wire Harness	1
19		Toggle Switch	1
20		Toggle Switch Mount	1
21	39-4970	Decal – Chute Rotation	1
22	218-473	Toggle Switch Boot	1
23	3296-47	Locknut	3
24	3256-23	Flatwasher	3
25	3290-326	Pushnut	2
26	25-5440	Upper Chute	1
27	12-2040	Chute Wire	1
28	29-6350	Decal – Warning	1

Ref. No.	Part No.	Description	No. Used
29	3231-27	Carriage Bolt	6
30	27-0220	Special Screw	12
31	39-4940	Collar	1
32	39-4890	Ring – Chute Swivel	1
33	3234-13	Flange Screw	3
34	32152-2	Locknut	2
35	3290-340	Belleville Washer	2
36	20-4320	Rubber Washer	2
37	39-4920	Gearmotor	1
38	11-7120	Deflector	1
39	39-4930	Shaft – Worm Gear	1
40	3274-26	Socket Head Screw	1
41	8-8600	Worm Gear	1
42	256-255	Bushing	1
43	3256-1	Flatwasher	2
44	32121-20	Roll Pin	1
45	39-4910	Motor Mount	1
46	32121-50	Roll Pin	1
47	3231-2	Carriage Bolt	3
48	327-6	Capscrew	1
49	3253-8	Lockwasher	1
50	30-0160	Chain – Roller	1
51	2710-11	Connecting Link	1
52	30-0450	Nut Plate	1
*	37-5640	Slip Clutch (Incl. Ref. #1-8)	1
*	39-4950	Toggle Switch Assembly (Incl. Ref. #19-22)	1

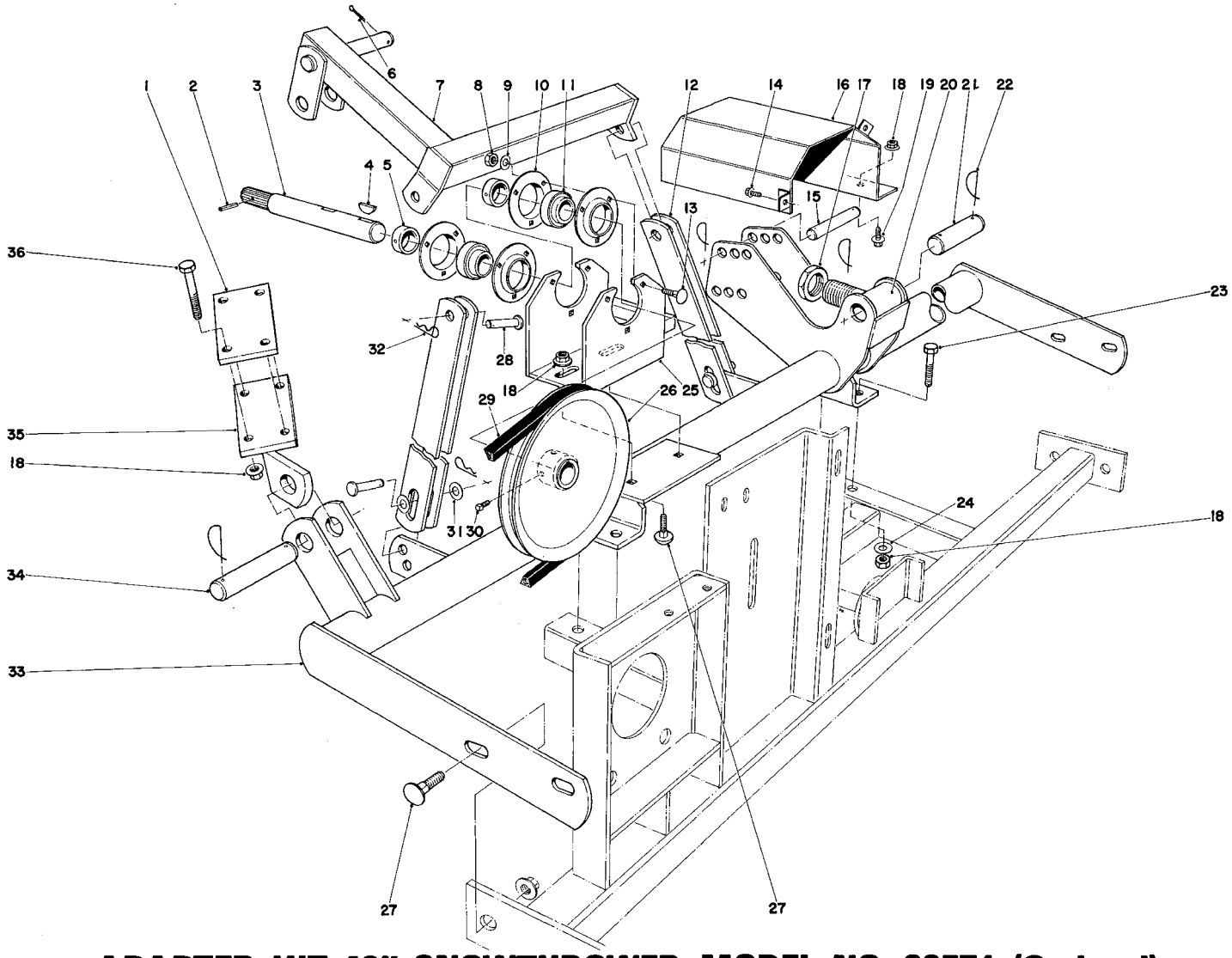
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48" SNOWTHROWER MODEL NO. 30570 (Optional) (Continued)

Ref. No.	Part No.	Description	No. Used
1	32120-72	Retaining Ring	4
2	30-0590	Shaft	1
3	30-0660	Key	2
4	30-0630	Bearing	2
5	30-0640	Oil Seal	2
6	30-0650	Housing	1
7	37-5840	Shaft	1

Ref. No.	Part No.	Description	No. Used
8	30-0620	Bearing	2
9	30-0670	Gear	1
10	30-0680	Gasket – Cover Plate	1
11	12-3270	Screw Special	4
12	30-0690	Cover Plate	1
13	30-0600	Gear	1

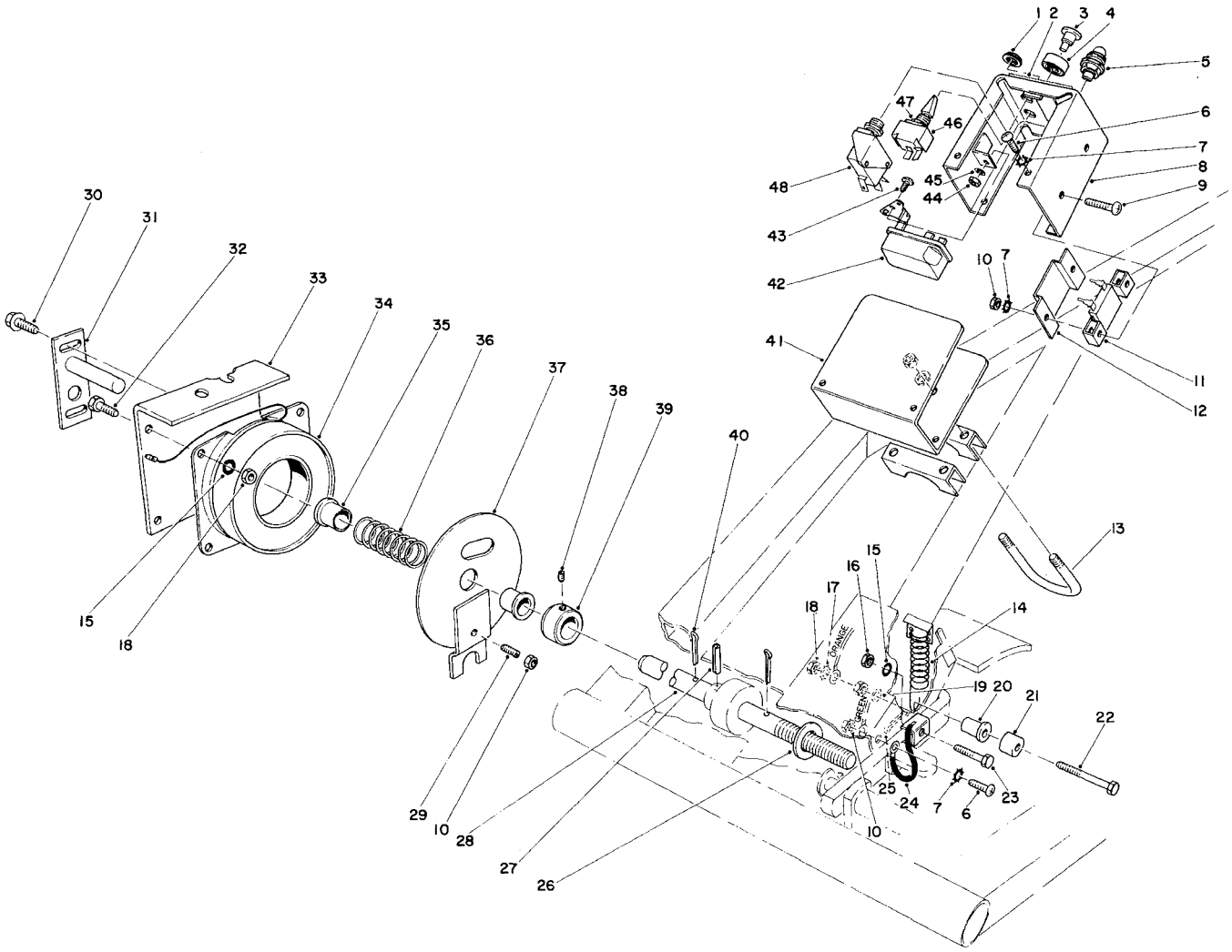


ADAPTER KIT 48" SNOWTHROWER MODEL NO. 30571 (Optional)

Ref. No.	Part No.	Description	No. Used
1	24-2690	Clamp Plate	1
2	32121-9	Roll Pin	1
3	39-4370	Jackshaft	1
4	3257-8	Key – Woodruff	1
5	251-77	Collar	2
6	3272-33	Cotter Pin	1
7	39-4310	Lift Arm	1
8	3217-6	Hex Nut	6
9	3253-24	Lockwasher	6
10	251-287	Flange – 3 Hole	4
11	251-253	Bearing (Incl. Ref. #5)	2
12	39-4340	Strap – Lift	4
13	3230-2	Carriage Bolt	6
14	3234-13	Flange Screw	2
15	39-4350	Pin	2
16	39-4600	Power Take Off Shield	1
17	21-3000	Jam Nut	1
18	3290-357	Flange Nut	11
19	3234-12	Flange Screw	1

Ref. No.	Part No.	Description	No. Used
20	23-9930	Push Pin	1
21	25-1350	Pin	1
22	5-3126	Spring Pin	8
23	323-12	Capscrew	4
24	29-4730	Washer	4
25	37-5610	Jackshaft Support	1
26	39-4380	Pulley	1
27	3231-2	Carriage Bolt	6
28	283-42	Clevis Pin	4
29	39-4390	V-Belt	1
30	3242-2	Square Head Setscrew	2
31	3256-24	Washer	4
32	3290-255	Hair Pin	4
33	39-4220	Hitch Adapter	1
34	5-3505	Pin	1
35	24-2680	Push Arm Bracket	1
36	323-14	Capscrew	4
*	37-5790	Reflector	2
*	32104-42	Self-Tapping Screw	4

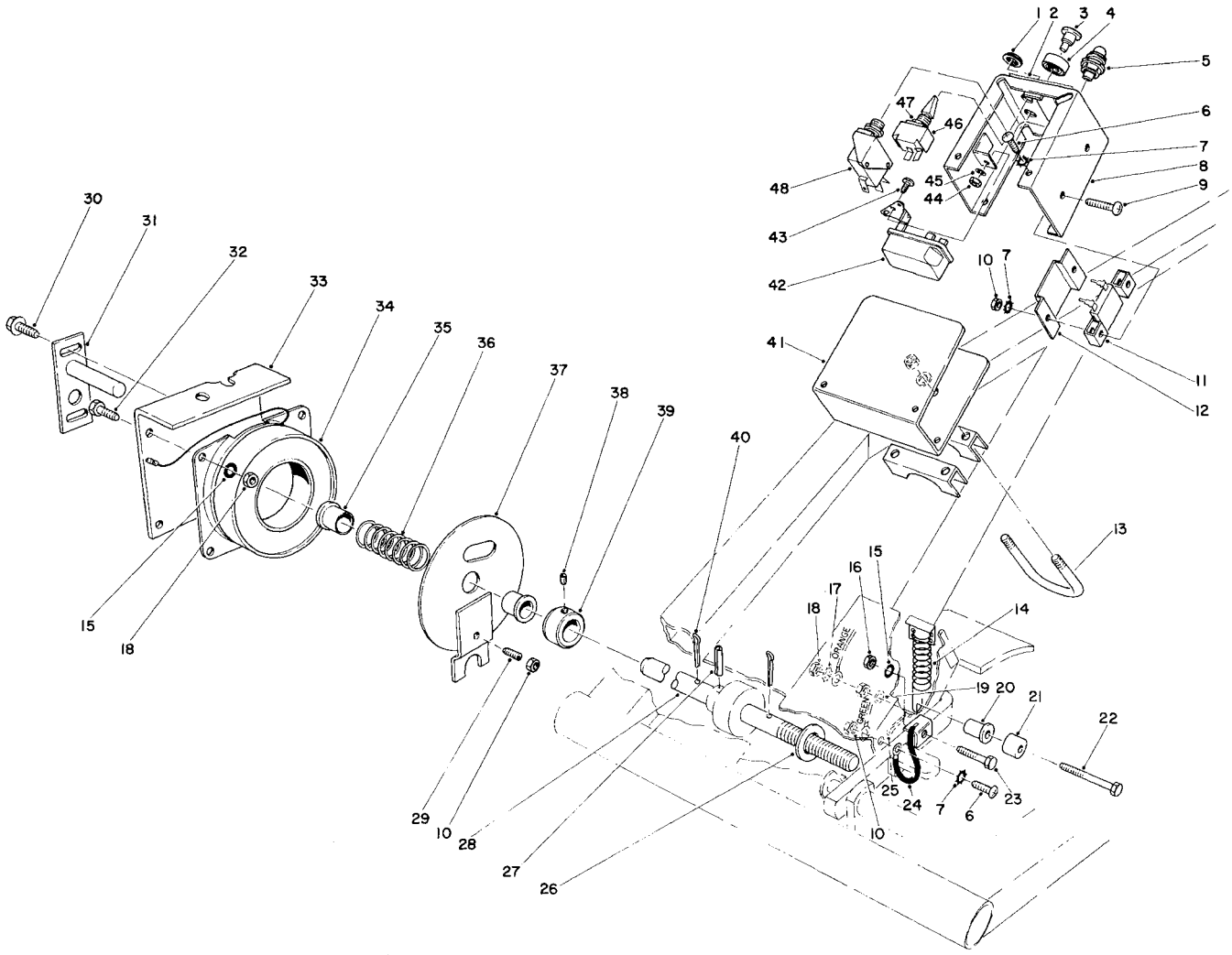
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CRUISE CONTROL KIT MODEL NO. 30777 (Optional)

Ref. No.	Part No.	Description	No. Used
1	218-497	Facenut – Beveled	1
2	43-6210	Decal – Speed Control	1
3	43-6280	Push Button	1
4	43-6420	Bezel	1
5	40-6410	Warning Light	1
6	3251-2	Rd. Hd. Machine Screw	5
7	3255-5	Ext. Tooth Lockwasher	7
8	43-6340	Box Cover	1
9	32122-44	Truss Hd. Machine Screw	2
10	3217-26	Hex Nut	4
11	43-6400	Resistor	1
12	43-6120	Resistor Guard	1
13	2412-76	Muffler Clamp Assembly	2
14	43-6190	Extension Spring Assembly	1
15	3253-3	Lockwasher	5

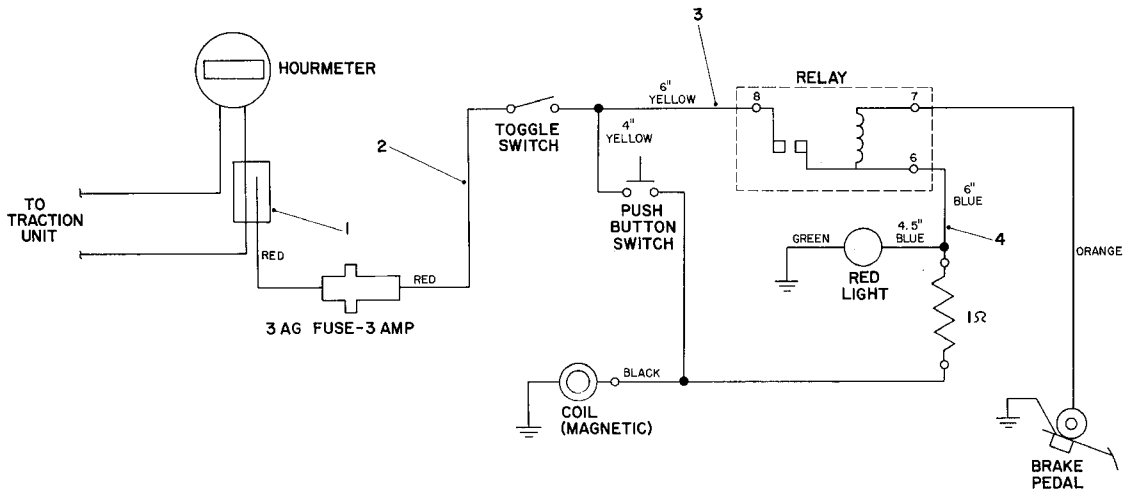
Ref. No.	Part No.	Description	No. Used
16	3218-1	Jam Nut	1
17	3255-7	Ext. Tooth Lockwasher	1
18	3217-5	Hex Nut	6
19	3256-22	Washer	1
20	32117-1	Blind Nut	1
21	43-6270	Contact Spacer	1
22	321-10	Hex Hd. Capscrew	1
23	321-4	Hex Hd. Capscrew	1
24	43-6260	Grounding Clip Assy (w/wire)	1
25	3272-48	Cotter Pin	1
26	43-8440	Spacer	1
27	32121-16	Roll Pin	1
28	43-6130	Traction Pedal Shaft	1
29	3245-31	Socket Hd. Set Screw	1
30	3234-13	Hex Hd. Flange Screw	2



CRUISE CONTROL KIT MODEL NO. 30777 (Optional) (Continued)

Ref. No.	Part No.	Description	No. Used
31	43-6170	Shaft	1
32	321-2	Hex Hd. Capscrew	4
33	43-6310	Bracket	1
34	42-1720	Field Core Coil Assembly	1
35	256-273	Flange Bushing	2
36	43-6200	Spring	1
37	43-6110	Clutch Plate	1
38		Socket Hd. Set Screw	1
39	43-6320	Collar (Incl. Ref. #38)	1
40	3272-6	Cotter Pin	2

Ref. No.	Part No.	Description	No. Used
41	43-6330	Box	1
42	43-7980	Relay Switch	1
43	3249-2	Rd. Hd. Machine Screw	1
44	3217-29	Hex Nut	1
45	3254-9	Ext. Tooth Lockwasher	1
46	28-4110	Light Switch (Incl. Ref. #1 & 47)	1
47	218-498	Locknut	1
48	43-6290	Switch	1



CRUISE CONTROL KIT MODEL NO. 30777 (Optional)

Ref. No.	Part No.	Description	No. Used
1	218-529	Connector – Tap	1
2	43-6370	Wire Harness	1
3	43-6380	Wire Assembly	1

Ref. No.	Part No.	Description	No. Used
4	43-6390	Wire Assembly	1
*	3290-379	Cable Tie	5

*Not Illustrated

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 72" Groundsmaster 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 72" Groundsmaster, 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 72" Groundsmaster.
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.

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Litho in U.S.A.