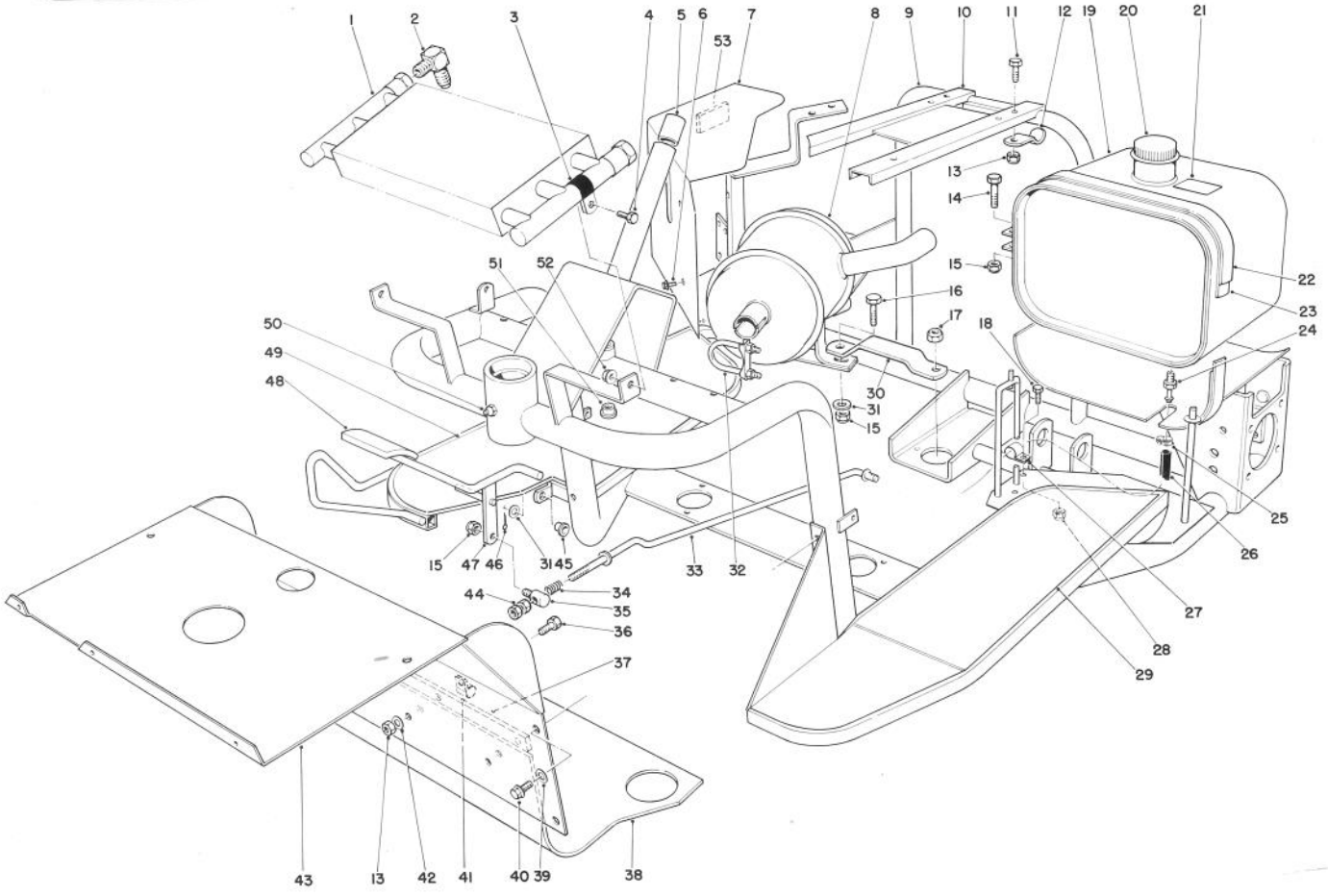
FORM NO. 3312-449 Rev. A

TORO®

MODEL NO. 08880 — 50001 THRU 60001 & UP

PARTS CATALOG

SAND PRO® 14



FRAME ASSEMBLY

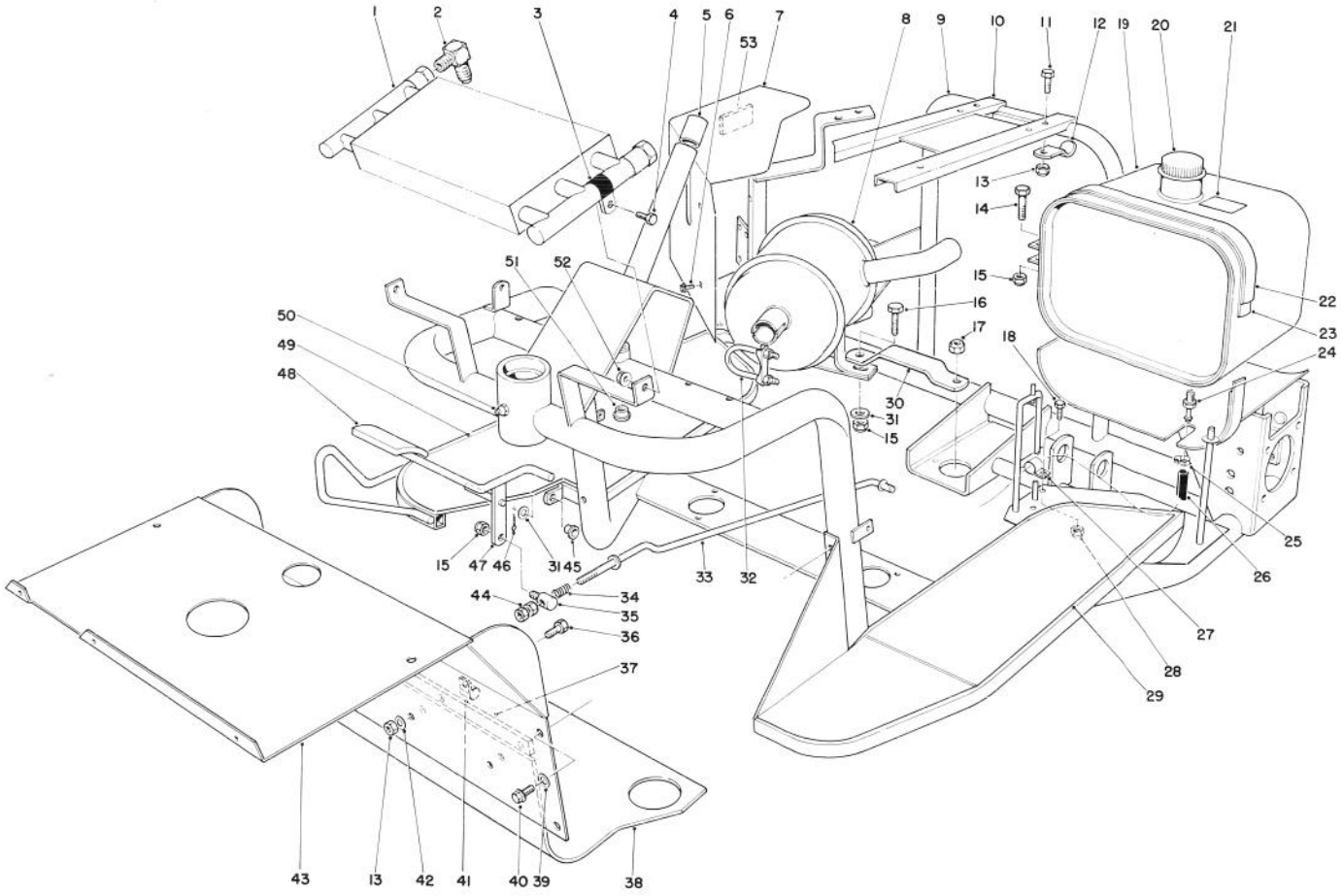
Ref. No.	Part No.	Description	No. Used
1	24-0760	Oil Cooler	1
2	353-372	Fitting 90°	2
3	2412-39	Clamp "R"	2
4	323-6	Screw — Cap Hex. Hd.	2
5	256-185	Bushing	1
6	32104-76	Screw — Self Tapping Hex Hd.	2
7	49-9930	Valve Shroud	1
8	51-0700	Muffler	1
*	51-0990	Spark Arrestor, Muffler	1
9	49-9430	Frame (Incl. Ref. #5, 45 & 51)	1
10	51-0760	Seat Channel	1
11	322-3	Screw — Cap Hex Hd.	2
12	10-9240	Seat Clamp	2
13	3296-29	Nut — Lock	5
14	323-13	Screw — Cap Hex Hd.	2
15	3296-44	Locknut	4

Ref. No.	Part No.	Description	No. Used
16	323-7	Screw — Cap Hex Hd.	1
17	3296-5	Locknut	1
18	321-4	Screw — Cap Hex Hd.	1
19	49-9790	Gas Tank (Incl. Ref. #20)	1
20	222-8	Gas Cap	1
21	53-4420	Decal — Gas	1
22	49-9650	Strap — Tank	2
23	49-9780	Strip — Felt	2
24	353-711	Fitting — Straight	1
25	2412-36	Hose Clamp — Worm Drive	2
26	51-0670	Hose Gas Line	1
27	2412-73	Clamp — "R"	1
28	3296-42	Nut — Lock	1
29	51-0580	Foot Rest Pad L.H.	1
30	49-9580	Bracket — Muffler	1
31	3256-24	Washer — Plain	2

*Not Illustrated

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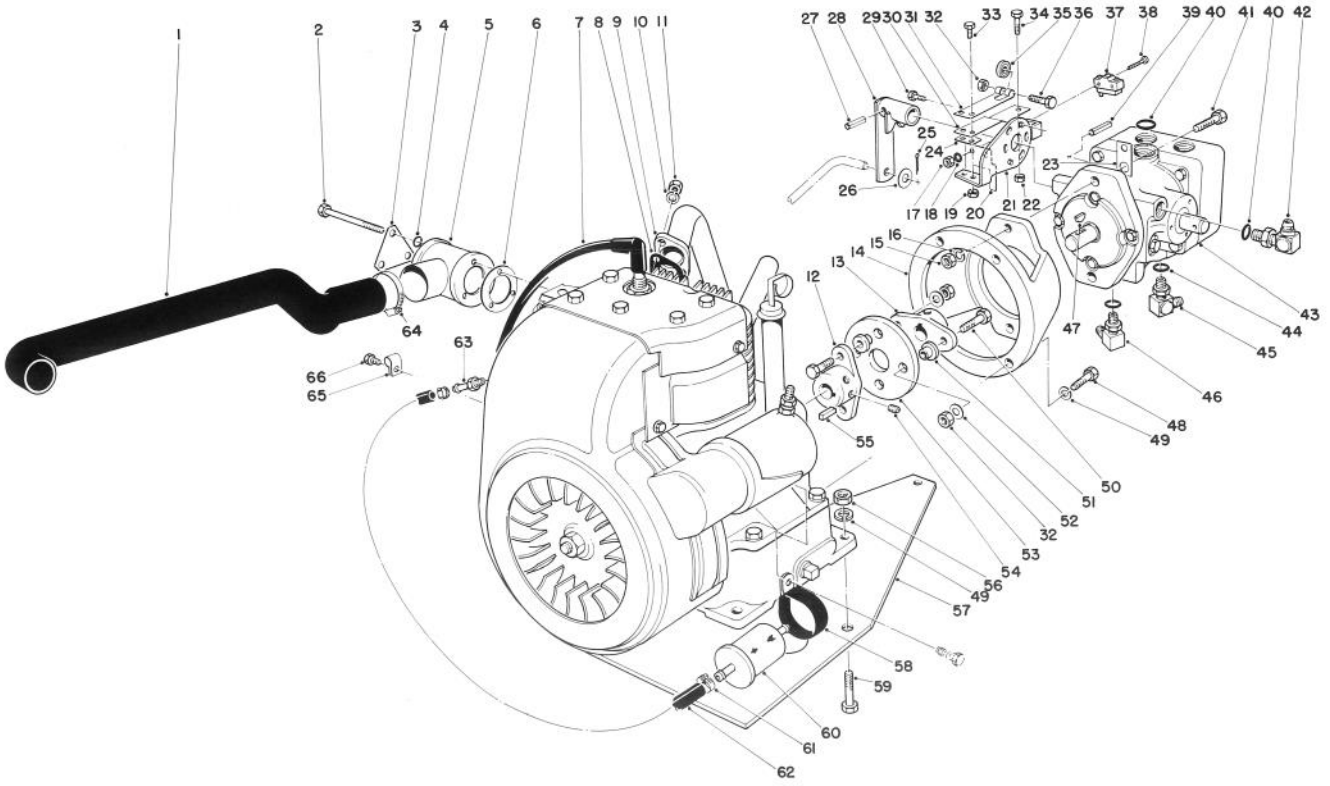
PRICE $1.00



FRAME ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
32	2412-37	Muffler Clamp Assembly	1
33	49-9570	Pump Rod	1
34	46-9130	Spring – Compression	1
35	18-6650	Nut – Adjuster	1
36	322-5	Screw – Cap Hex. Hd.	3
37	49-9980	Retainer – Rubber Shield	1
38	49-9590	Shield – Rubber	1
39	3256-2	Washer – Plain	6
40	32104-42	Screw – Sems Hex. Hd.	6
41	2412-70	Clamp	1
42	3256-23	Washer – Plain	3

Ref. No.	Part No.	Description	No. Used
43	49-9760	Shield	1
44	3218-4	Nut – Jam	2
45	256-116	Bushing	2
46	3272-4	Pin – Cotter	1
47	49-9990	Pedal	1
48	49-6470	Pedal Pad – Forward	1
49	51-0570	Foot Rest Pad R.H.	1
50	302-11	Grease Fitting	1
51	256-155	Bushing	2
52	3290-357	Nut – Flange	2
53	55-4450	Sponge Rubber - Self Adhesive	1

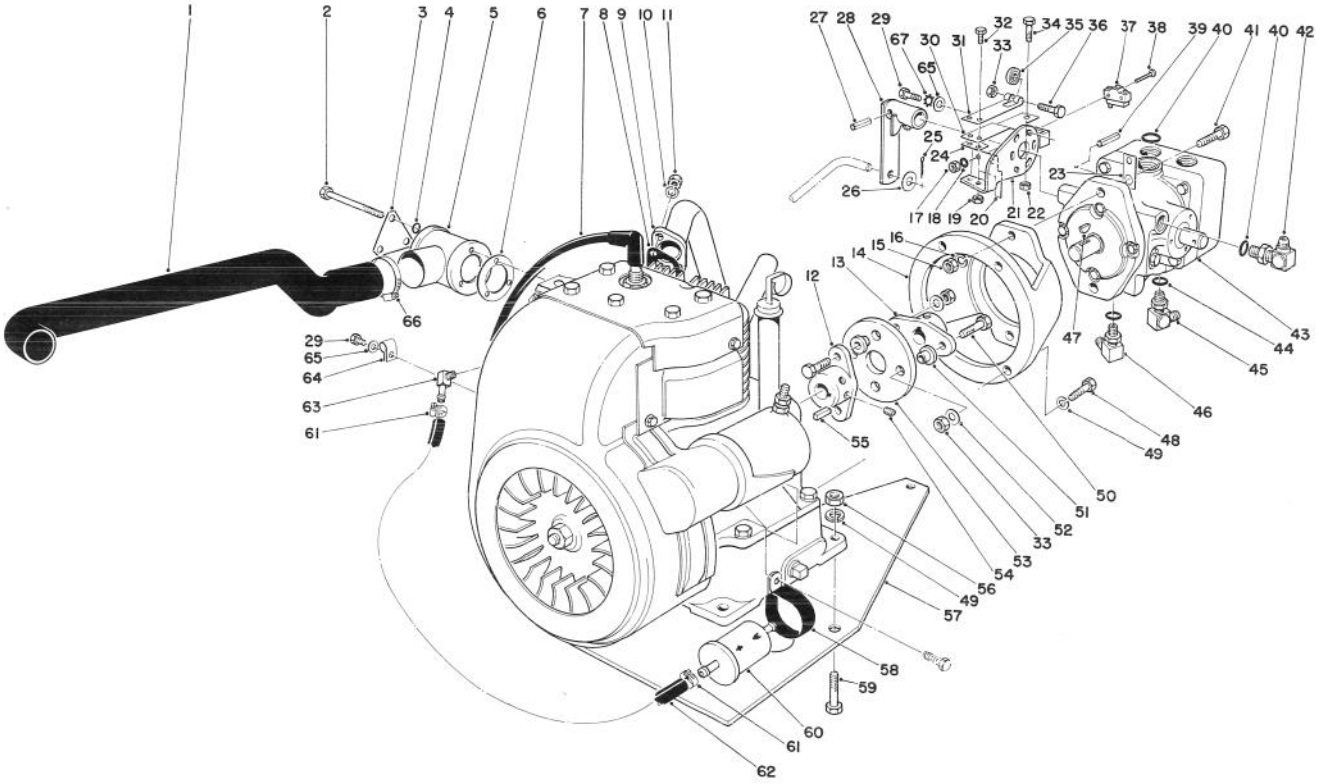


ENGINE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	49-9850	Hose – Air Intake	1
2	55-4190	Screw – Machine Hex Hd.	3
3	51-1030	Tab Lock	1
4	237-137	O-Ring	3
5	51-1020	Adaptor Assembly	1
6†		Gasket – Air Intake	1
7	53-9730	Engine (Kohler K-321S Type 60434)	1
8†		Gasket – Exhaust	1
9	49-9550	Exhaust Pipe	1
10	3253-4	Washer – Lock	2
11	3217-6	Nut – Hex	2
12	27-1960	Coupling – Engine	1
13	49-9600	Hub Pump	1
14	37-8030	Pump Mount	1
15	3217-9	Nut Hex	2
16	3253-7	Washer – Lock	2
17	3217-16	Nut – Hex	2
18	3254-9	Washer – Lock Internal Tooth	2
19	3296-42	Nut – Lock	2
20	46-8810	Stop – Leaf Spring	1
21	29-6120	Pump Plate	1

Ref. No.	Part No.	Description	No. Used
22	3219-2	Nut – Hex	1
23	26-2950	Wire Stand Off	1
24	51-3150	Shim – Spring Arm	1
25	3272-16	Pin – Cotter	1
26	3256-25	Washer – Plain	1
27	32121-24	Pin – Roll	1
28	26-2810	Pump Lever	1
29	32104-42	Screw – Self Tapping Hex. Head	4
30	29-6170	Extended Leaf Spring Assembly	1
31	29-6150	Spring Leaf	1
32	321-4	Screw – Cap Hex. Hd.	2
33	3296-29	Nut – Lock	5
34	3210-7	Screw – Cap Hex. Hd.	1
35	251-259	Bearing	1
36	322-17	Screw – Cap Hex. Hd.	1
37	29-6161	Micro Switch	1
38	3249-11	Screw – Machine Round Head	2
39	32121-16	Pin – Roll	1
40	237-79	O-Ring	3
41	325-7	Screw – Cap Hex. Hd.	2

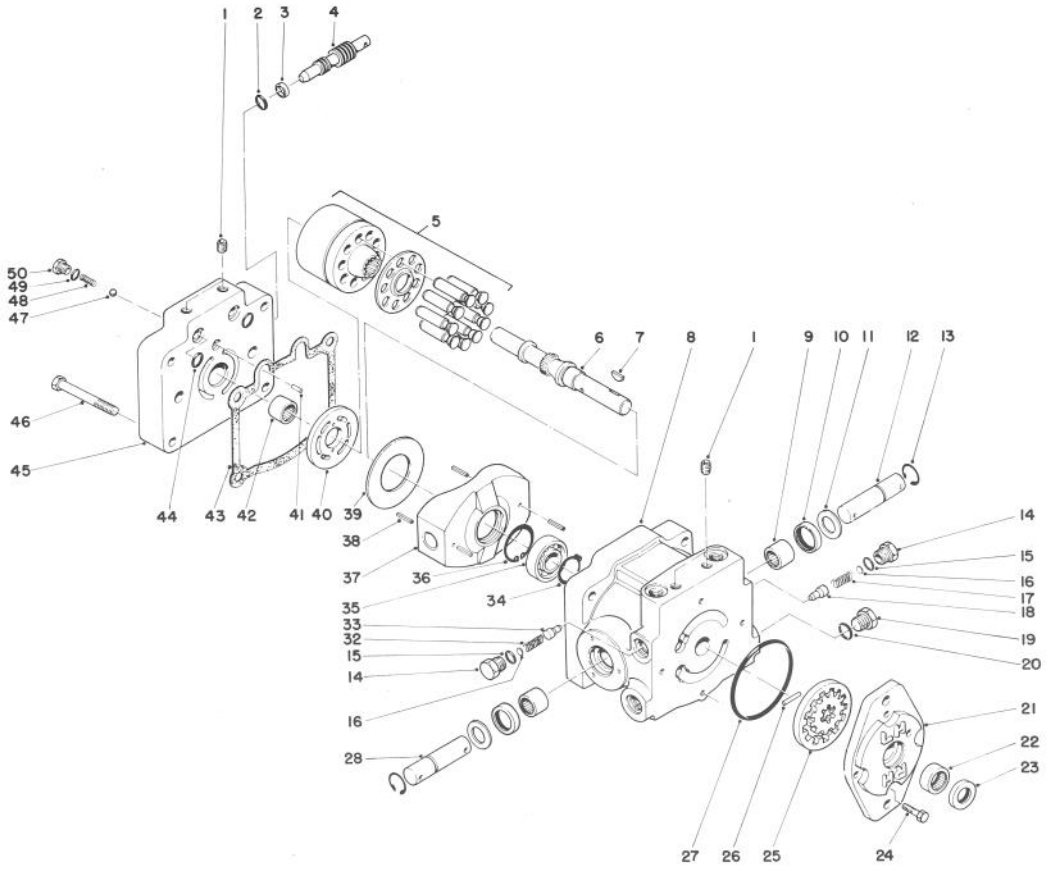
†Obtain from your local Kohler Dealer.



ENGINE ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
42	353-890	90° Adj. Elbow	1
43	53-9360	Pump	1
44	237-42	O-Ring	2
45	353-374	90° Adj. Elbow	1
46	353-511	90° Adj. Elbow	1
47	3257-32	Key Woodruff	1
48	323-6	Screw – Cap Hex. Hd.	4
49	3253-5	Washer – Lock	6
50	322-16	Screw – Cap Hex. Hd.	4
51	27-6600	Spacer – Rubber Coupling	4
52	3256-23	Washer – Plain	4
53	44-2230	Coupling – Rubber	1
54	3241-5	Screw – Set Socket	4

Ref. No.	Part No.	Description	No. Used
55	10-7070	Key Square	1
56	3217-7	Nut Hex	2
57	49-9500	Engine Base	1
58	2412-44	Clamp – "R"	1
59	323-8	Screw – Cap Hex. Hd.	2
60	18-1520	Gasoline Filter Assembly	1
61	2412-36	Clamp – Worm Gear	3
62	51-0670	Hose – Fuel Line	1
63	46-3710	Fitting	1
64	2412-31	Clip – Throttle Wire	1
65	3256-22	Washer	4
66	2412-92	Hose Clamp	1
67	3255-7	Washer – Lock	3

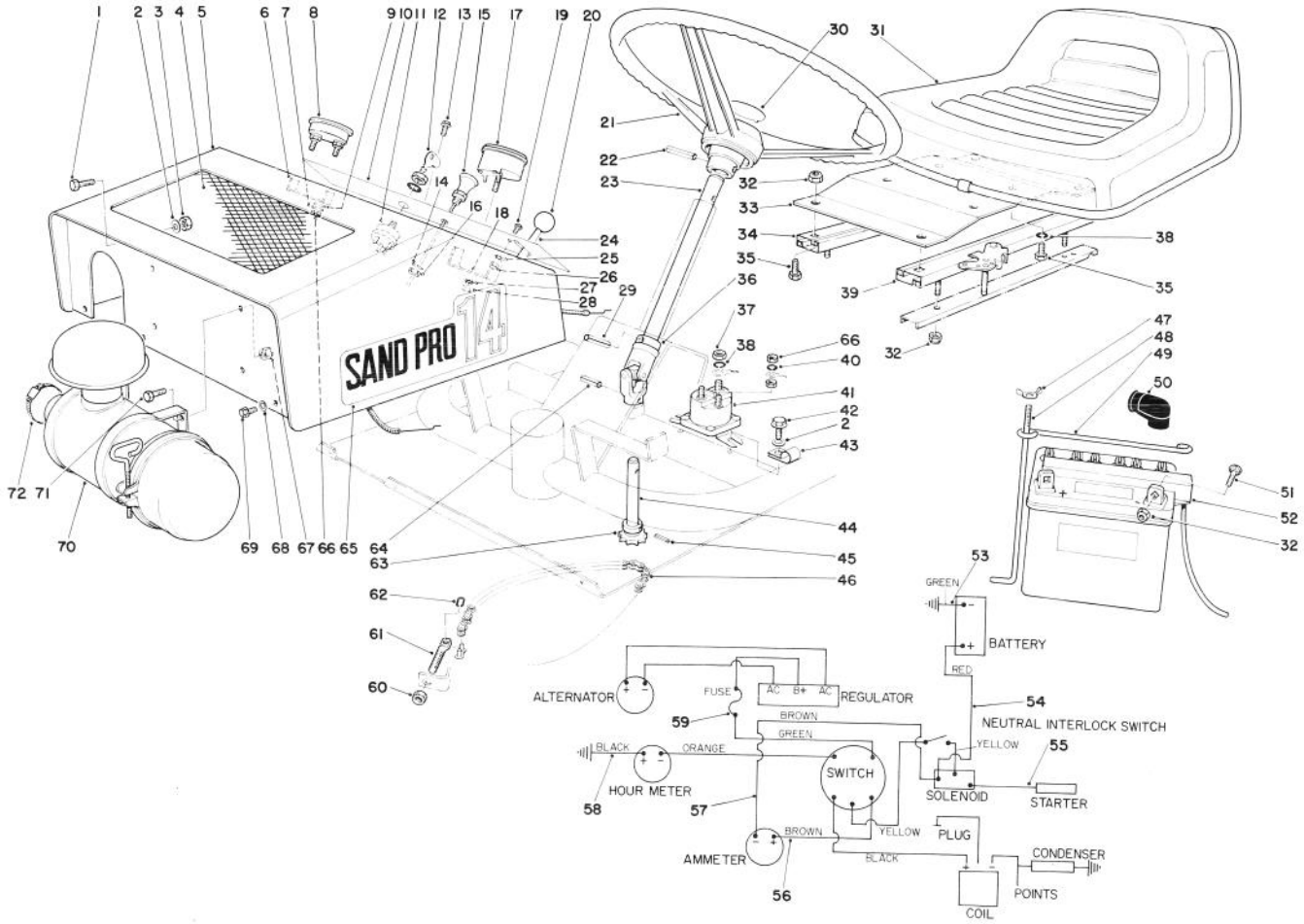


PUMP ASSEMBLY NO. 53-9360

Ref. No.	Part No.	Description	No. Used
1	285-17	Pipe Plug	4
2	237-22	O-Ring	1
3	25-2630	Ring	1
4	25-2620	Valve By-Pass	1
5	48-1800	Cylinder Block Kit	1
6	36-5370	Shaft Pump	1
7	3257-32	Key – Woodruff	1
8	53-9360	Kit Housing (Incl. Ref. #1, 8-10)	1
9	252-82	Needle Bearing	2
10	25-3210	Lip Seal	2
11	25-2510	Washer	2
12	25-2580	Shaft Trunion	1
13	32151-46	Retaining Ring	2
14	25-2460	Plug	2
15	237-86	O-Ring	2
16	25-2470	Kit – Shim Pack	4
17	25-2570	Relief Valve Spring	1
18	25-2560	Relief Valve Cone	1
19	49-8490	Plug Standard Thread	1
20		O-Ring	1
21	25-2690	Charge Pump Housing	1
22	252-87	Needle Bearing	1
23	253-44	Lip Seal	1
24	322-4	Screw – Cap Hex. Hd.	4
25	25-2680	Gerator Assembly	1
26	25-2530	Headless Straight Pin	1

Ref. No.	Part No.	Description	No. Used
27	237-35	O-Ring	1
28	49-8480	Shaft – Trunion	1
32	25-2480	Charge Relief Spring	1
33	25-2560	Relief Valve Cone	1
34	32120-15	Retaining Ring	1
35	251-8	Ball Bearing	1
36	32120-11	Retaining Ring	1
37	25-2450	Swashplate	1
38	32121-91	Coiled Spring Pin	3
39	25-2380	Thrust Plate	1
40	25-2390	Valve Plate	1
41	25-2430	Pin Straight Headless	1
42	25-3300	Needle Bearing	1
43	25-2400	Gasket	1
44	237-30	O-Ring	2
45		End Cap Pump	1
46	323-11	Screw – Cap Hex Hd.	4
47	25-2490	Check Valve Ball	2
48	25-2640	Spring – Check Valve	2
49	237-86	O-Ring	2
50	25-2650	Check Valve Plug	2
*	25-3180	Check Valve Kit (Incl. Ref. #47-50)	1
*	49-8510	Kit – Charge Relief Valve (Incl. Ref.#14-16 & 32-33)	1
*	49-8520	Kit – Implement Relief (Incl. Ref. #14-18)	1

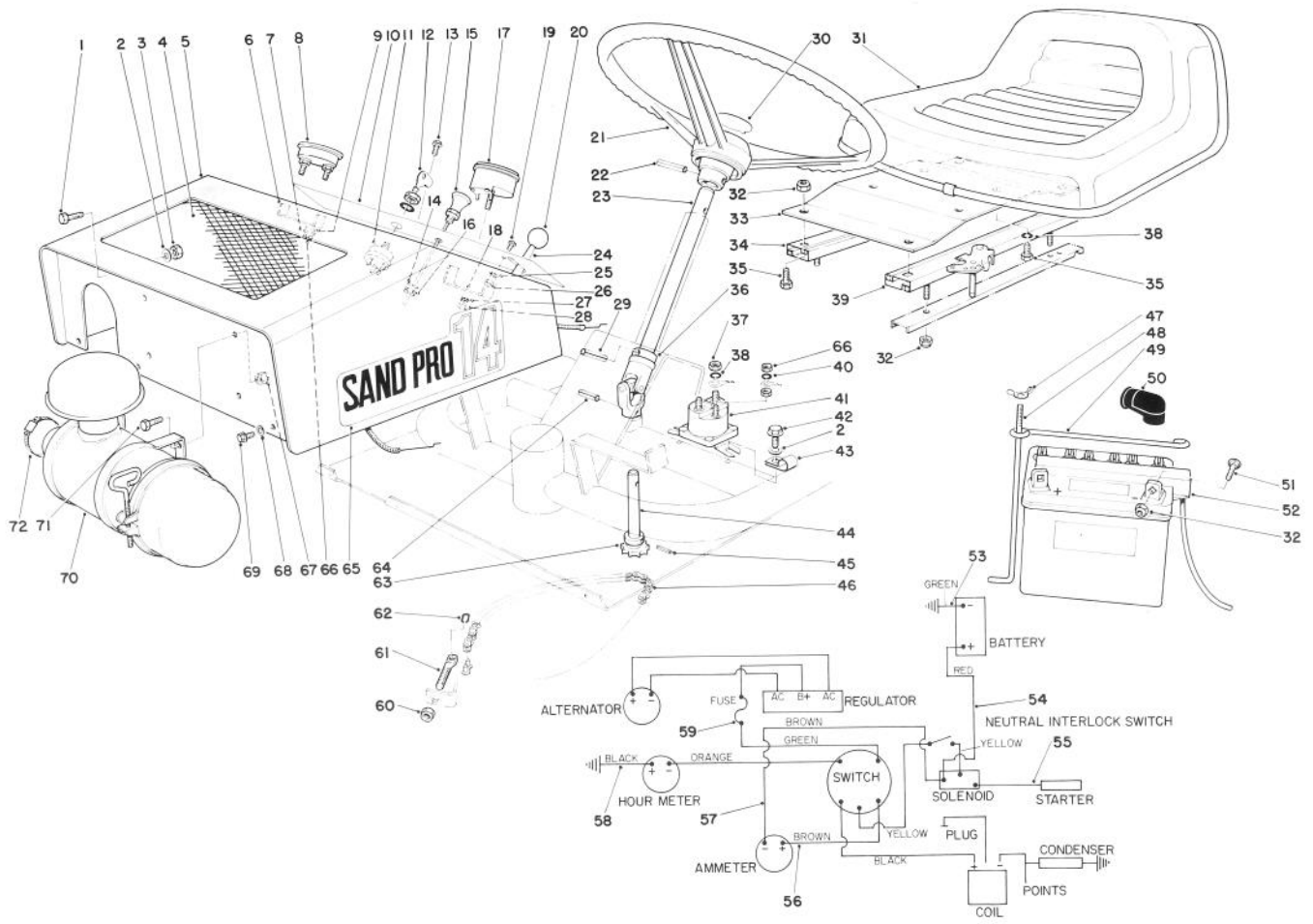
*Not Illustrated



INSTRUMENT PANEL AND WIRING DIAGRAM

Ref. No.	Part No.	Description	No. Used
1	321-3	Screw – Cap Hex. Hd.	4
2	3256-22	Washer – Plain	6
3	3296-16	Nut – Lock	4
4	49-9730	Screen – Dash Panel	1
5	49-9620	Dash	1
6	39-9600	Mounting Clamp	1
7	3254-8	Lockwasher	2
8	33-0990	Ammeter (Incl. Ref. #6-7, 9 & 66)	1
9	3256-21	Washer	2
10	51-0730	Decal – Dash	1
11	12-8140	Switch (Incl. Ref. #12)	1
12	218-412	Key	2
13	32144-11	Screw – Self Tapping Hex. Hd.	2
14	3254-6	Lockwasher	1
15	19-2090	Control – Choke (Incl. Ref. #14 & 16)	1
16	3219-3	Nut	1
17	12-9990	Hour Meter	1
18	218-515	Mounting Bracket	1
19	3251-2	Screw – Machine Round Hd.	2
20	233-25	Knob	1
21	25-6260	Steering Wheel	1

Ref. No.	Part No.	Description	No. Used
22	32121-10	Pin – Roll Slotted	1
23	25-8140	Steering Shaft	1
24	51-0680	Control – Throttle	1
25	3255-17	Washer – Lock Int./Ext. Tooth	2
26	3296-12	Nut – Lock	2
27	3254-1	Washer – Lock External Tooth	1
28	3217-26	Nut – Hex	1
29	32121-84	Pin – Roll Slotted	1
30	24-2090	Cap – Steering Wheel	1
31	27-5170	Seat	1
32	3296-29	Nut – Lock	10
33	49-9910	Plate – Seat	1
34	51-0780	Seat Slider	1
35	322-2	Capscrew	8
36	25-8160	U-Joint	1
37	3218-13	Nut – Hex	4
38	3253-4	Washer – Lock	6
39	51-0790	Seat Adjuster	1
40	3253-17	Washer – Lock	1
41	6-1600	Solenoid	1
42	32104-42	Screw – Self Tapping Hex. Hd.	2
43	2412-73	Clamp	1
44	18-6340	Steering Shaft	1

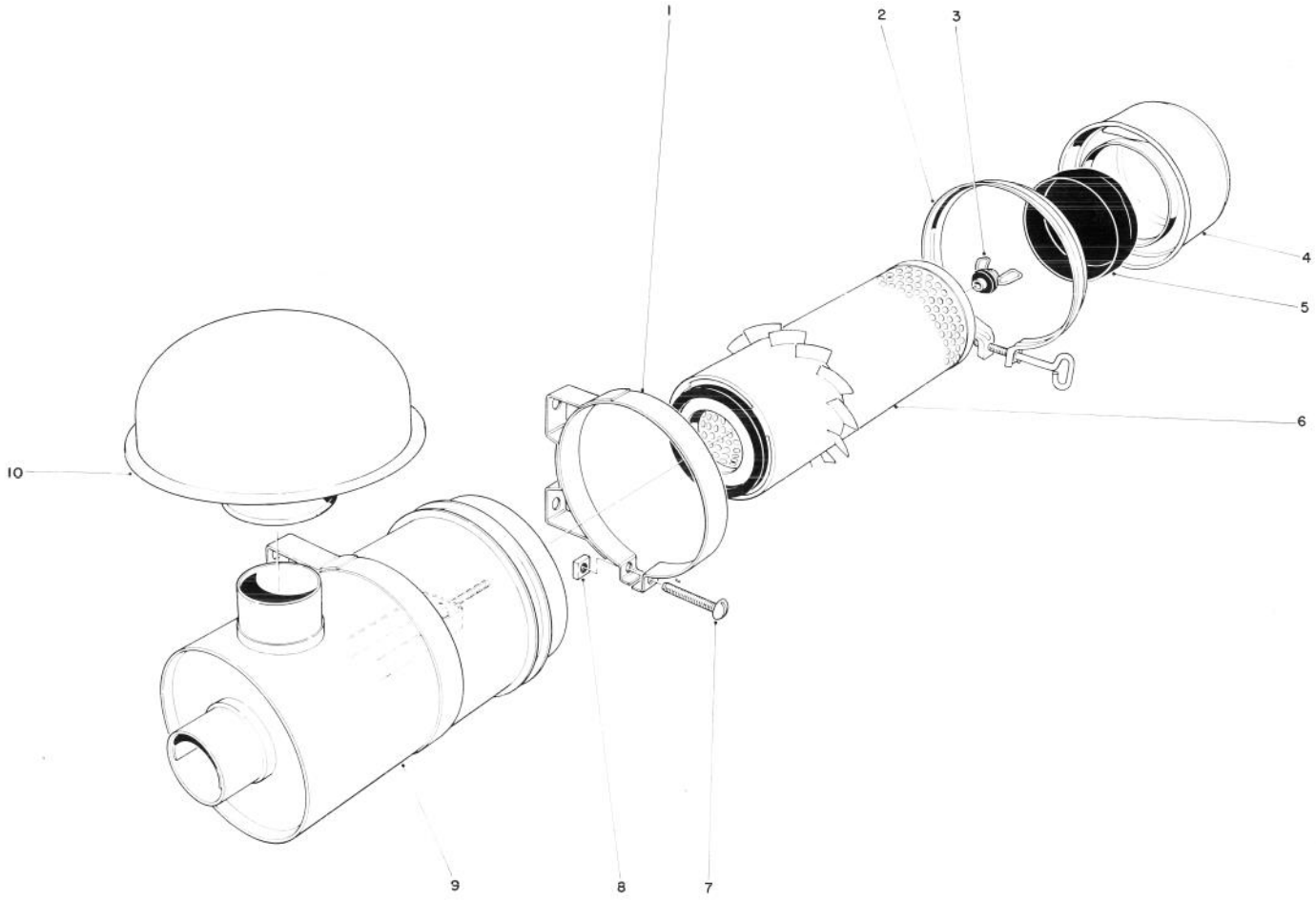


INSTRUMENT PANEL AND WIRING DIAGRAM (Continued)

Ref. No.	Part No.	Description	No. Used
45	32121-16	Pin – Roll Slotted	1
46	18-6370	Chain	1
47	32103-12	Wing – Nut	2
48	7-3328	Bolt – Battery	2
49	47-1680	Battery Clamp	1
50	218-331	Battery Boot	1
51	3230-15	Bolt – Carriage	2
52	49-7030	Battery – 12 Volt	1
53	52-1460	Wire (Battery to Ground)	1
54	18-7840	Wire (Solenoid to Battery)	1
55	18-6560	Wire (Solenoid to Starter)	1
56	51-0710	Wire Harness	1
57	18-7830	Wire (Solenoid to neg. ammeter)	1
58	18-6580	Wire (Hour Meter Ground)	1

Ref. No.	Part No.	Description	No. Used
59†		Fuse 30 AMP.	1
60	3296-4	Nut – Lock	2
61	18-6380	Steering Adjustment Pin	2
62	2710-31	Chain – Connecting Link	2
63	17-2490	Sprocket	1
64	32121-6	Pin – Roll Slotted	1
65	51-0720	Decal – Sand Pro 14	2
66	3219-14	Nut – Hex	10
67	3296-47	Nut – Lock	4
68	3256-14	Washer	3
69	32104-76	Screw Self Tapping Hex. Hd.	3
70	11-4659	Air Cleaner Assembly	1
71	322-1	Screw — Cap Hex. Hd.	4
72	2412-92	Hose Clamp	1
*	3290-378	Cable Tie	4

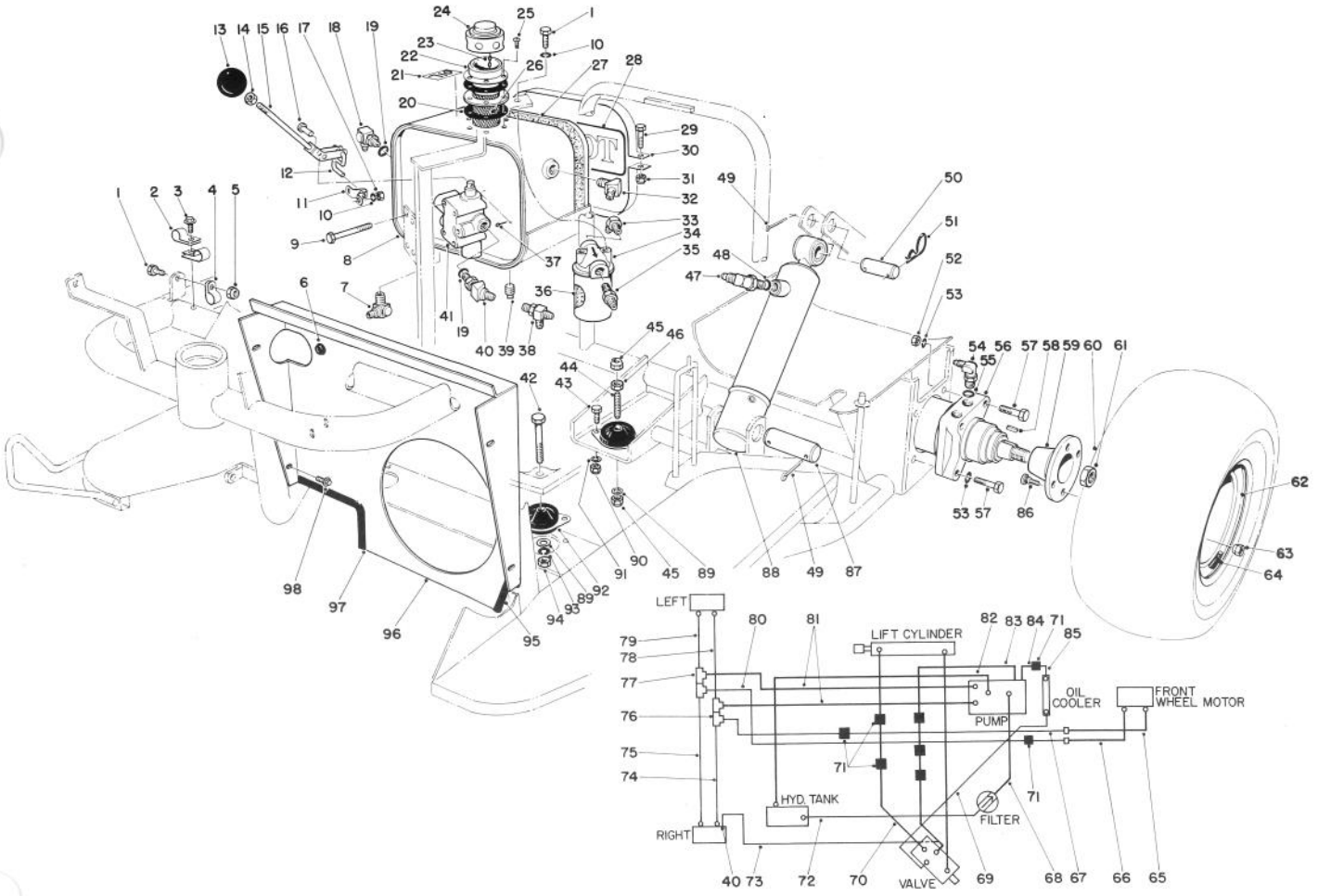
†Obtain Locally
*Not Illustrated



AIR CLEANER ASSEMBLY 11-4659

Ref. No.	Part No.	Description	No. Used
1	33-1350	Band Assembly Mounting	2
2	33-1340	Clamp Assembly	1
3	33-1330	Nut Assembly	1
4	33-1320	Cup Assembly	1
5	33-1310	Baffle	1

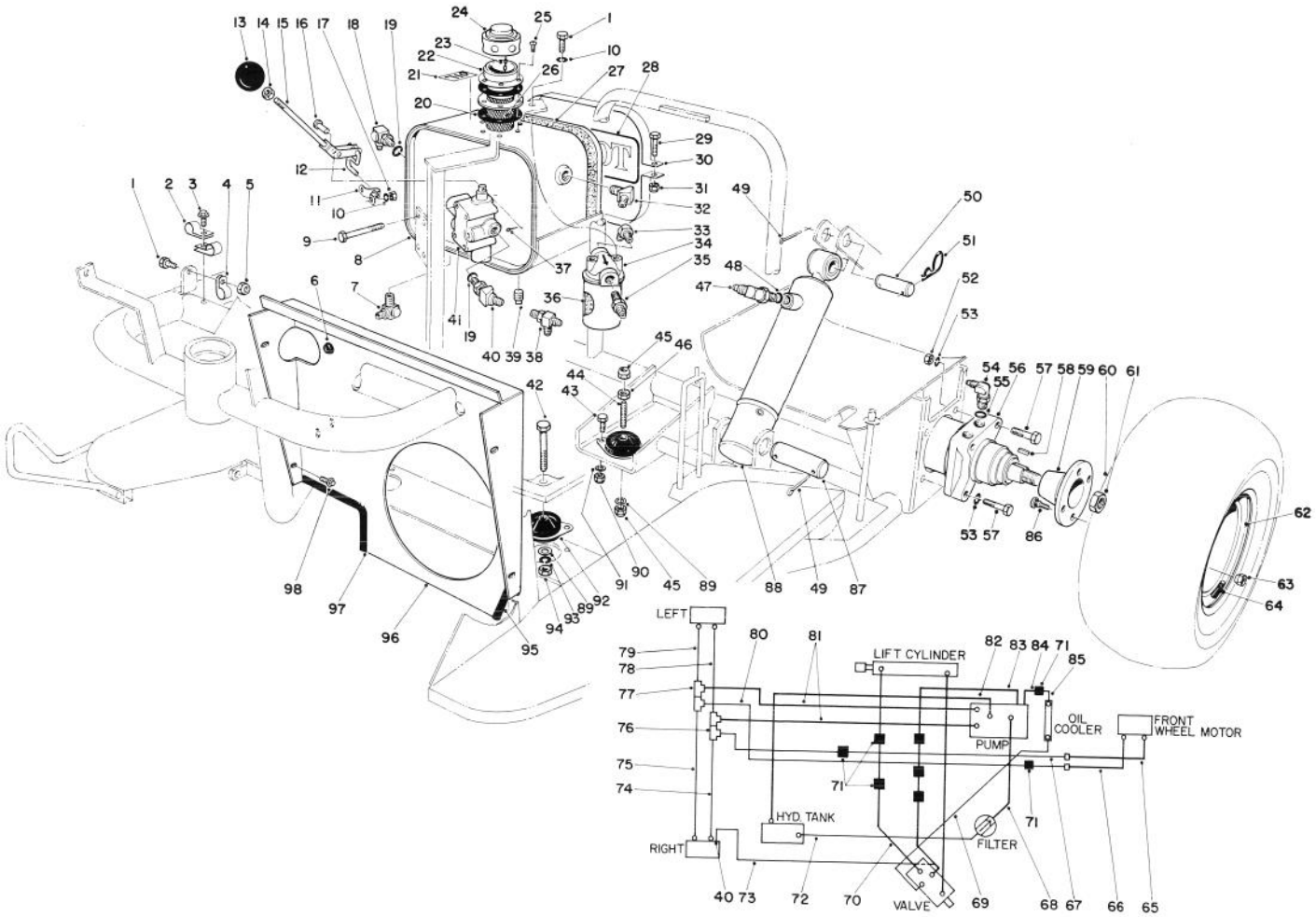
Ref. No.	Part No.	Description	No. Used
6	33-1300	Element Assembly	1
7	3258-19	Screw – Machine	2
8	32107-11	Nut – Square	2
9		Body Assembly	1
10	46-7510	Hood Air Inlet	1



HYDRAULIC TANK AND SYSTEMS DIAGRAM

Ref. No.	Part No.	Description	No. Used
1	321-4	Screw – Cap Hex. Hd.	3
2	2412-70	Clamp	2
3	32144-11	Screw – Self Tapping Hex. Hd.	1
4	2412-73	Clamp – "R"	1
5	3296-42	Nut – Lock	1
6	237-88	Grommet	1
7	353-533	Fitting 90°	1
8	51-0690	Hydraulic Tank	1
9	321-14	Screw – Cap Hex. Hd.	4
10	3253-3	Washer – Lock	6
11	22-4600	Bracket – Pivot	1
12	36-4630	S-Link	1
13	233-33	Knob	1
14	3218-2	Nut – Jam	1
15	22-4560	Control Rod	1
16	283-17	Pin – Clevis	1
17	3217-5	Nut – Hex	4
18	353-511	Fitting 90°	1
19	237-42	O-Ring	2
20	353-500	Gasket	2
21	53-4430	Decal – Oil	1
22	353-501	Flange Adapter	1
23		Capture Spring & Chain Assy.	1

Ref. No.	Part No.	Description	No. Used
24	353-498	Breather Cap (Incl. Ref. #23)	1
25	32104-111	Screw – Pan Hd.	6
26	19-5970	Screen Assembly	1
27	49-9780	Strip – Felt	1
28	43-5110	Decal – Toro	1
29	323-13	Screw – Cap Hex. Hd.	1
30	49-9650	Strap Tank	1
31	3296-44	Locknut	1
32	353-510	Fitting 45°	1
33	353-535	Fitting 45°	1
34	43-8590	Filter Head Assembly	1
35	353-506	Fitting – Male Adapter	1
36	23-9740	Oil Filter	1
37	3272-4	Cotter Pin	1
38	353-877	Fitting Swivel "T"	1
39	281-3	Plug	1
40	353-212	Fitting 45°	2
41	43-1950	Valve – Control Hydraulic	1
42	323-12	Screw – Cap Hex. Hd.	2
43	3290-134	Screw – Machine Hex. Hd.	6
44	44-1790	Stud – Adjustment	1
45	3296-5	Nut – Lock	2
46	3219-3	Nut – Hex	1

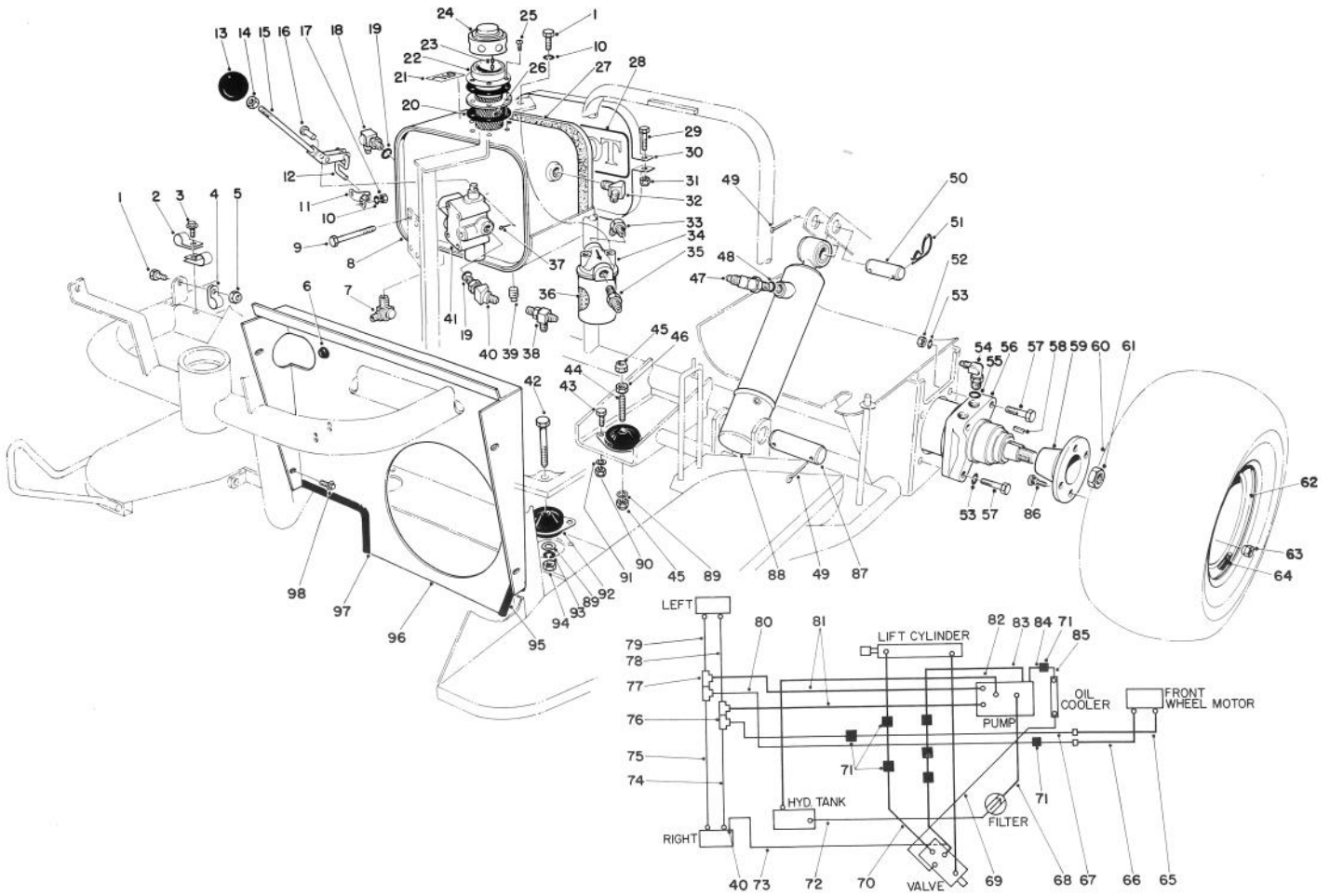


HYDRAULIC TANK AND SYSTEMS DIAGRAM (Continued)

Ref. No.	Part No.	Description	No. Used
47	353-431	Fitting 45°	2
48	237-78	O-Ring	2
49	3272-23	Cotter Pin	3
50	18-7310	Pin Rake	1
51	3290-256	Pin – Hair Cotter	1
52	3217-9	Nut Hex	4
53	3253-7	Washer – Lock	8
54	353-426	Fitting 90°	4
55	237-80	O-Ring	4
56	49-8621	Wheel Motor Left Rear	1
*	49-8630	Wheel Motor Right Rear	1
57	325-10	Screw – Cap Hex. Hd.	8
58	11-5790	Key	2
59	17-4710	Wheel Hub	2
60	28-1070	Tire	2
61	26-3790	Nut Lock	2
62	46-4810	Rim	2
63	242-50	Wheel Nut	8
64	232-35	Valve Stem	2
65	51-0600	Hose (Front Motor)	1
66	51-0610	Hose (Front Motor)	1
67	51-0660	Tube (Front Motor L.H.)	1
68	53-9470	Hose (Filter to Pump)	1

*Not Illustrated

Ref. No.	Part No.	Description	No. Used
69	51-0650	Tube (Valve to Cooler)	1
70	22-4670	Hose (Valve to Cylinder)	2
71	38-3400	Guard – Rubber	7
72	51-0770	Tube (Filter to Tank)	1
73	51-0620	Tube – Shuttle Valve	1
74	18-6700	Tube – Front (R.H. Rear Motor)	1
75	18-6730	Tube – Rear (R.H. Rear Motor)	1
76	353-424	"T" Fitting	2
77	353-425	"T" Fitting	2
78	18-6710	Tube – Front (L.H. Rear Motor)	1
79	18-6720	Tube – Rear (L.H. Rear Motor)	1
80	51-0640	Tube (Front Motor R.H.)	1
81	21-5370	Hose (Pump to "T")	2
82	21-5360	Hose (Pump to Reservoir)	1
83	51-0590	Hose (Pump to Valve)	1
84	49-9970	Hose (Pump to Cooler)	1
85	51-0630	Tube (Cooler to Pump)	1
86	10-6830	Wheel Stud	8
87	18-7160	Pin	1
88	43-5260	Hydraulic Cylinder	1
89	3256-24	Washer – Plain	3
90	3296-12	Nut – Lock	6
91	3256-14	Washer – Plain	6

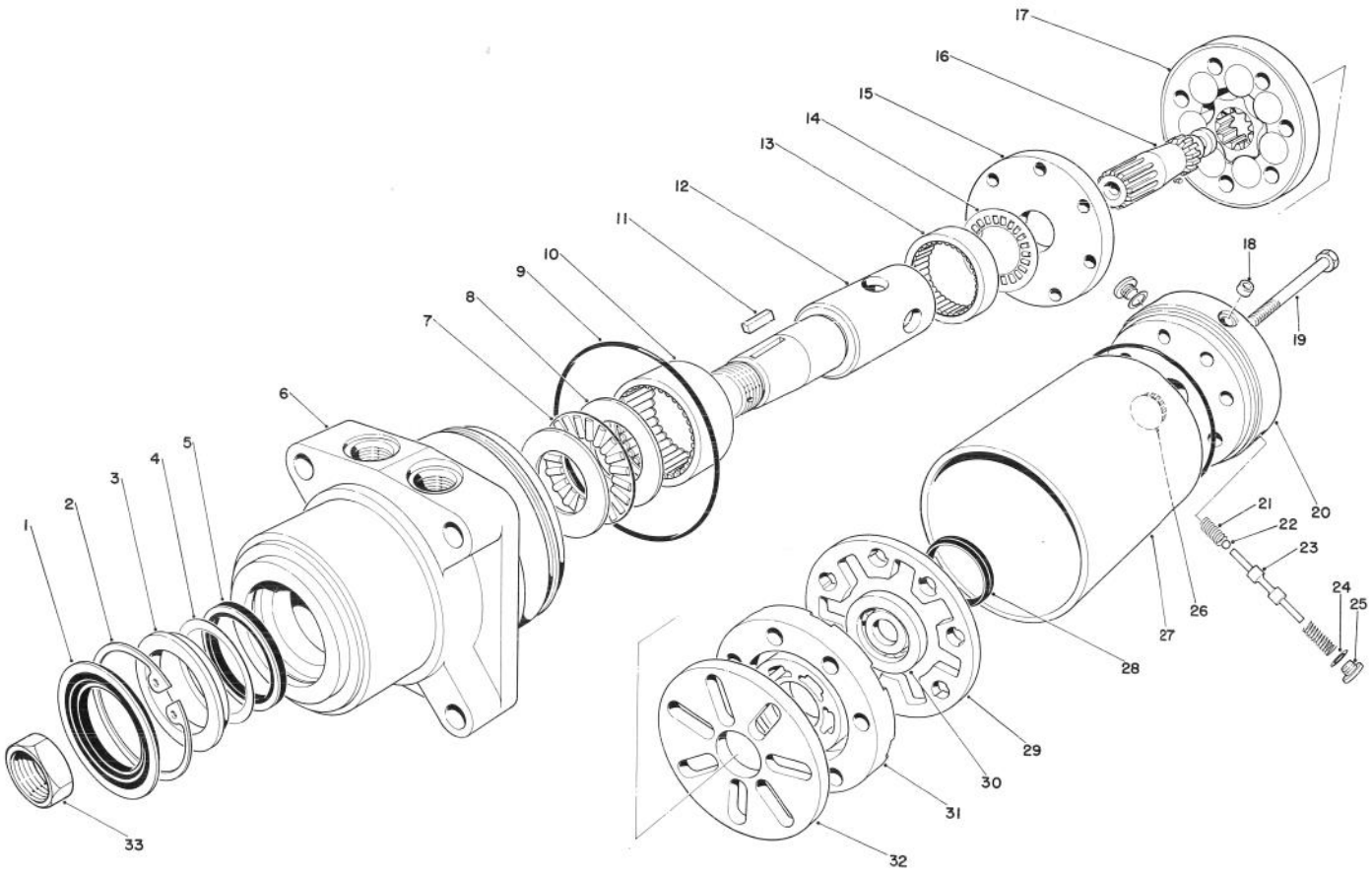


HYDRAULIC TANK AND SYSTEMS DIAGRAM (Continued)

Ref. No.	Part No.	Description	No. Used
92	18-8000	Mount Rubber	3
93	3253-21	Washer – Lock	2
94	3217-7	Nut – Hex	2
95	51-3160	Jiffy Trim	1

Ref. No.	Part No.	Description	No. Used
96	49-9770	Shield – Blower	1
97	51-3161	Jiffy Trim	1
98	32104-42	Screw – Self Tapping	4
*	232-37	Inner Tube	2

*Not Illustrated



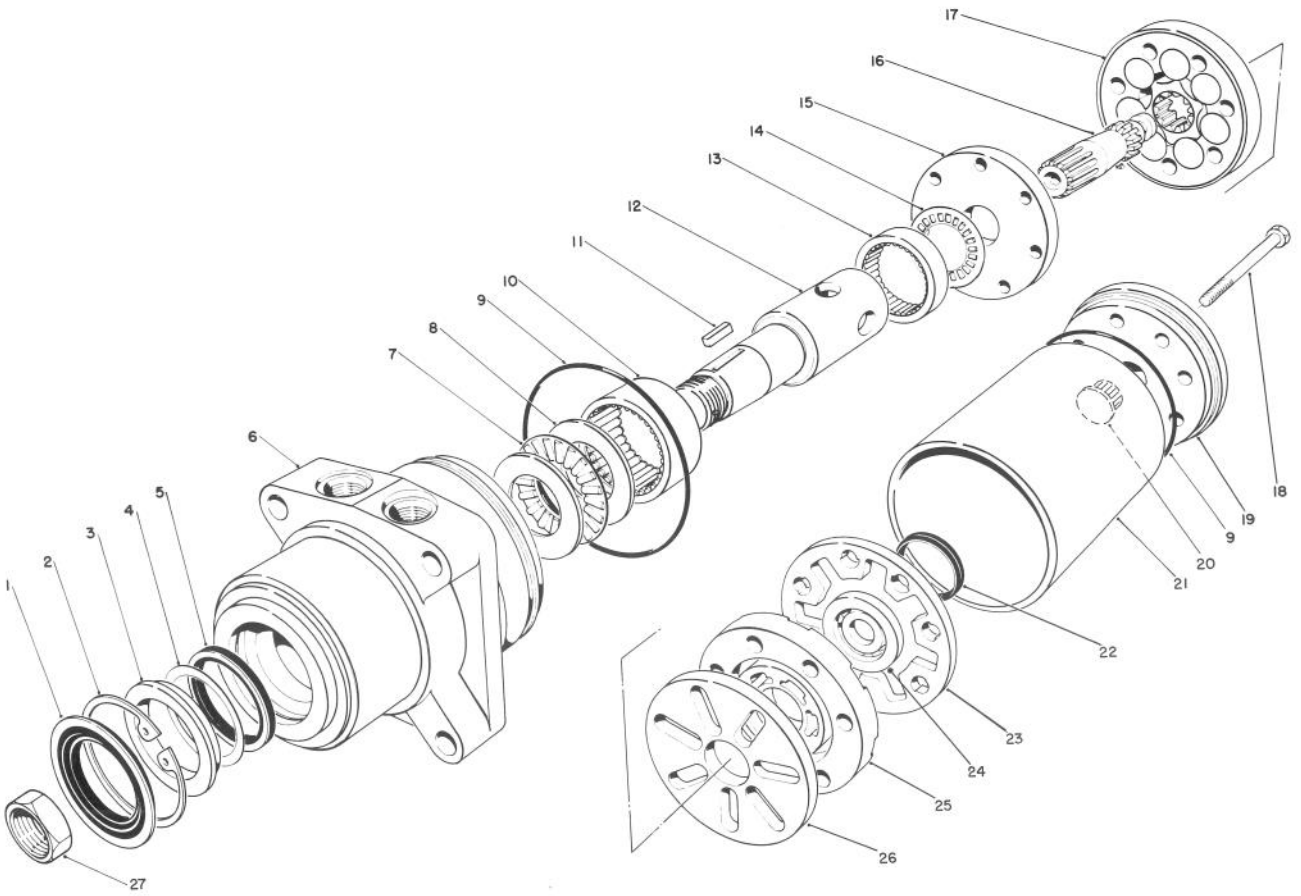
HYDRAULIC DRIVE MOTOR RIGHT REAR NO. 49-8630

Ref. No.	Part No.	Description	No. Used
1		Dirt Seal	1
2		Retaining Ring	1
3		Spacer	1
4		Shim	1
5		Seal	1
6†		Housing	1
7	28-1060	Thrust Bearing	1
8	28-0930	Thrust Washer	2
9		Seal Ring	2
10	28-0870	Needle Bearing	1
11	11-5790	Key	1
12	28-0940	Coupling Shaft	1
13	28-0860	Needle Bearing	1
14	28-1050	Thrust Bearing	1
15†		Wear Plate	1
16	49-8590	Drive Link	1
17	49-8600	Rotor Assembly	1
18		Orifice	1
19	353-856	Screw – Cap Hex. Hd.	7
20		End Cover	1
21		Spring	2

Ref. No.	Part No.	Description	No. Used
22		Ball	1
23		Spool	1
24		Seal Ring	1
25		Plug	1
26		Insert Thrust Washer	1
27	49-8580	Sleeve	1
28		Bonded Ring	1
29		Commutator Ring	1
30		Commutator	1
31		Manifold	1
32		Manifold Plate	1
33	26-3790	Nut – Lock	1
*	353-461	Seal Kit (Incl. Ref. #1-5, 9 & 28)	1
*	28-1100	Commutator Assembly (Incl. Ref. #29 & 30)	1
*	36-5000	Manifold Assembly (Incl. Ref. #31 & 32)	1
*	49-8640	Shuttle Assembly (Incl. Ref. #18, 20-26)	1

*Not Illustrated

†Not available from Toro as a replacement part.

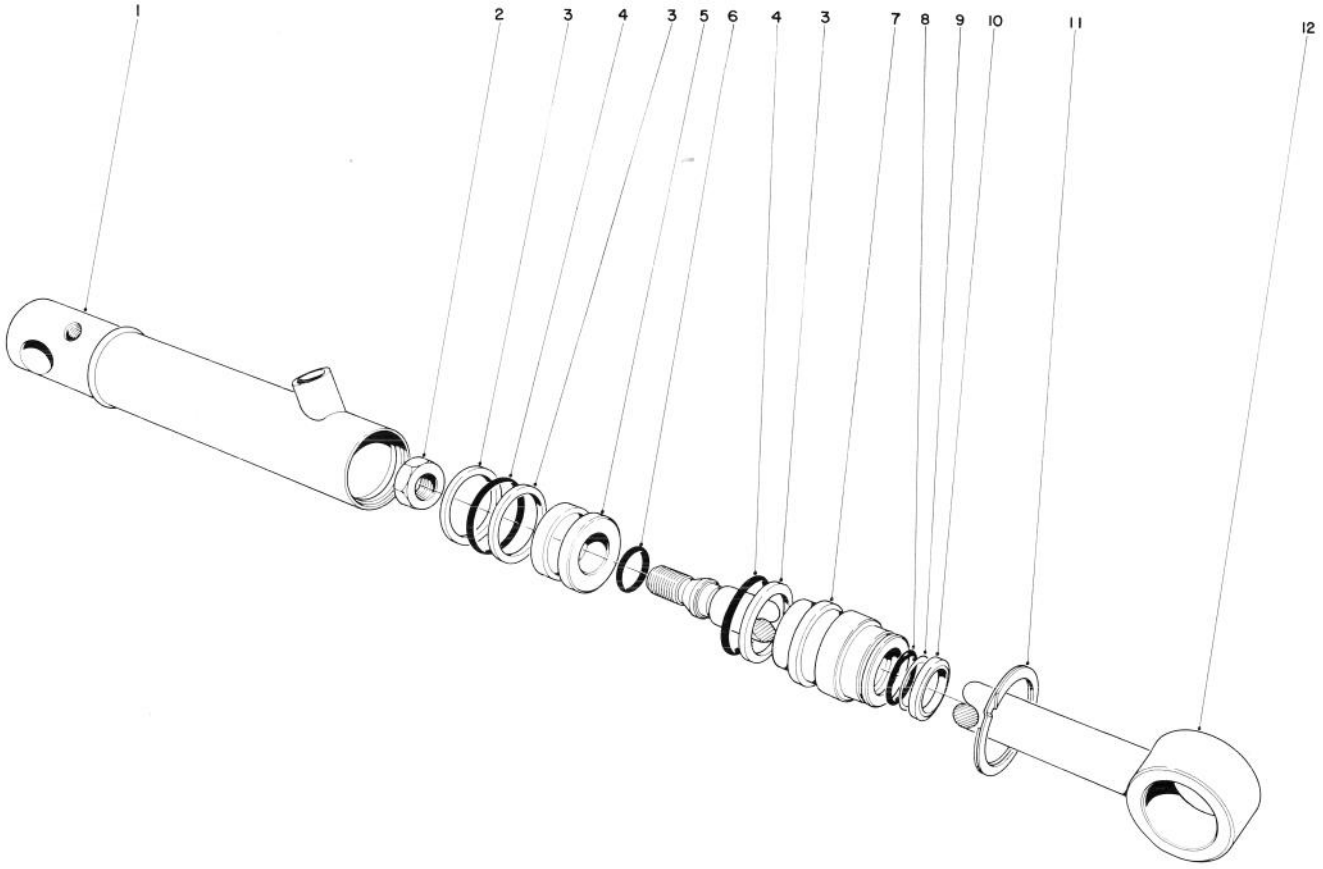


HYDRAULIC DRIVE MOTOR LEFT REAR NO. 49-8621

Ref. No.	Part No.	Description	No. Used
1		Dirt Seal	1
2		Retaining Ring	1
3		Spacer	1
4		Shim	1
5		Seal	1
6†		Housing	1
7	28-1060	Thrust Bearing	1
8	28-0930	Thrust Washer	2
9		Seal Ring	2
10	28-0870	Needle Bearing	1
11	11-5790	Key Square	1
12	28-0940	Coupling Shaft	1
13	28-0860	Needle Bearing	1
14	28-1050	Thrust Bearing	1
15†		Wear Plate	1
16	49-8590	Drive Link	1
17	49-8600	Rotor Assembly	1

Ref. No.	Part No.	Description	No. Used
18	353-828	Screw – Cap Hex. Hd.	7
19†		End Cover	1
20†		Insert – Thrust Washer	1
21	49-8580	Sleeve	1
22		Bonded Ring	1
23		Commutator Ring	1
24		Commutator	1
25		Manifold	1
26		Manifold Plate	1
27	26-3790	Locknut	1
*	36-5000	Manifold Assembly (Incl. Ref. #25 & 26)	1
*	28-1100	Commutator Assembly (Incl. Ref. #23 & 24)	1
*	353-461	Seal Kit (Incl. Ref. #1-5, 9 & 22)	1

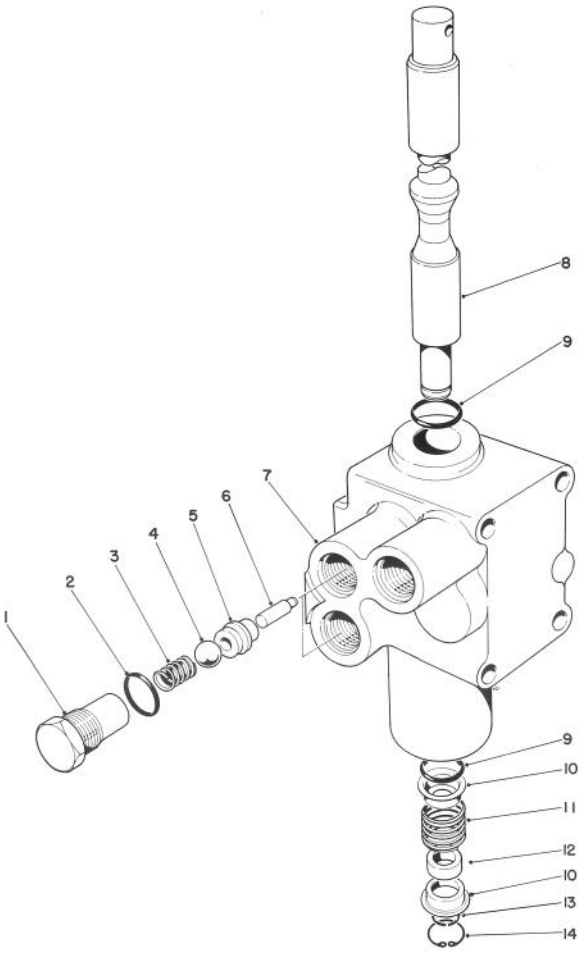
*Not Illustrated
†Not available from Toro as a replacement part.



HYDRAULIC CYLINDER NO. 43-5260

Ref. No.	Part No.	Description	No. Used
1	43-5240	Tube Assembly	1
2	43-5130	Jam Nut	1
3	43-5190	Back Up Washer	3
4	43-5160	O-Ring Piston	2
5	43-5150	Piston	1
6	43-5170	O-Ring	1
7	43-5140	Head	1
8	43-5180	O-Ring	1
9	43-5200	Leather	1
10	43-5210	Dust Seal	1
11	43-5220	Ring Retaining	1
12	43-5230	Shaft w/Clevis	1
*	43-5250	Seal Repair Kit (Incl. Ref. #3, 4, 6 & 8-10)	1

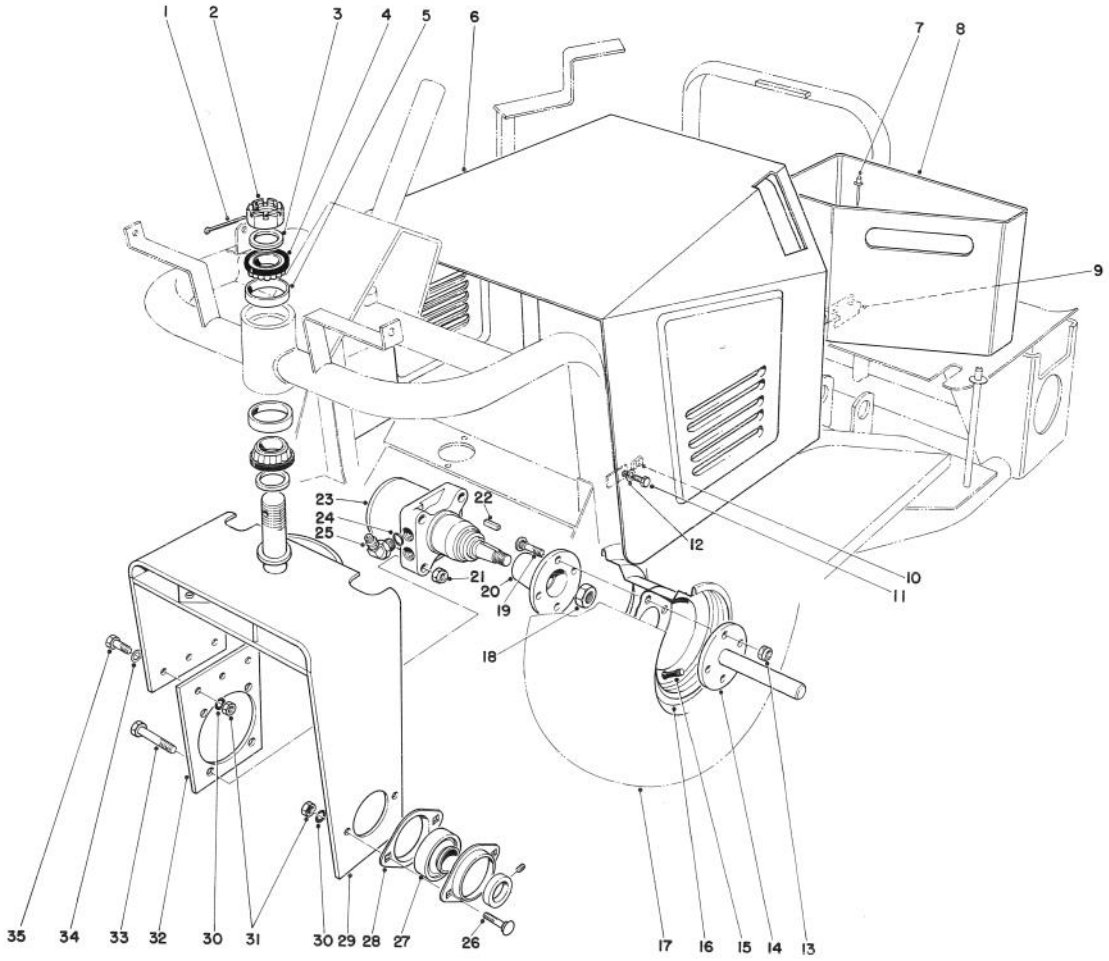
*Not Illustrated



CONTROL VALVE NO. 43-1950

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

Ref. No.	Part No.	Description	No. Used
8	22-8420	Spool	1
9	22-8500	O-Ring	2
10	22-8380	Retainer Spring	2
11	22-8410	Spring	1
12	23-3030	Spacer	1
13	22-8480	Snap Ring Spool	1
14	22-8490	Snap Ring	1

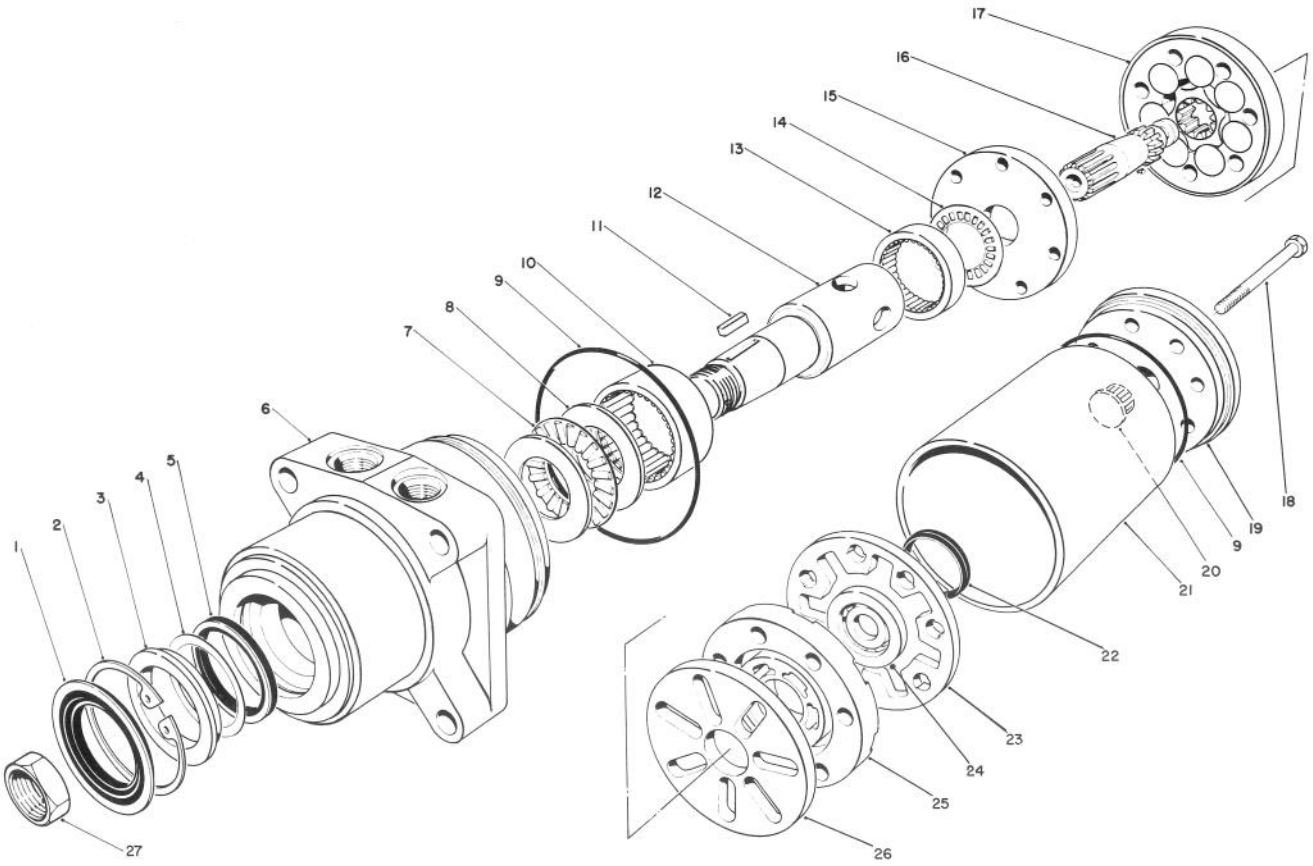


FRONT STEERING FORK AND MOTOR ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3272-37	Pin – Cotter	1
2	32136-9	Nut – Hex Slotted	1
3	18-6320	Washer – Steering	3
4	254-70	Bearing Cone & Seal	2
5	254-61	Bearing Cup	2
6	49-9530	Engine Shield	1
7	3290-54	Rivet – Pop	2
8	51-0900	Litter Box (Incl. Ref. #7 & 9)	1
9	44-2520	Clip – Spring	1
10	32115-11	Tinnerman Nut Retainer	2
11	321-2	Screw – Cap Hex. Hd.	2
12	3256-22	Washer	2
13	242-50	Lug Nut	4
14	18-6290	Axle Shaft	1
15	232-35	Valve Stem	1
16	46-4810	Rim	1
17	28-1070	Tire	1
18	26-3790	Locknut	1

Ref. No.	Part No.	Description	No. Used
19	17-2520	Drive Type Stud	4
20	18-8090	Wheel Hub	1
21	3296-25	Locknut	4
22	11-5790	Key – Square	1
23	49-8620	Hydraulic Motor	1
24	237-80	O-Ring	2
25	353-427	45° Fitting	2
26	3231-2	Bolt – Carriage	2
27	251-165	Bearing w/Collar	1
28	251-166	Flange – Bearing	2
29	18-6210	Fork	1
30	3253-21	Washer – Lock	5
31	3217-7	Nut – Hex	5
32	18-6270	Wheel Motor Mount – Fork	1
33	325-10	Capscrew	4
34	3256-24	Washer – Plain	3
35	323-7	Screw – Cap Hex. Hd.	3
*	232-37	Inner Tube	1

*Not Illustrated

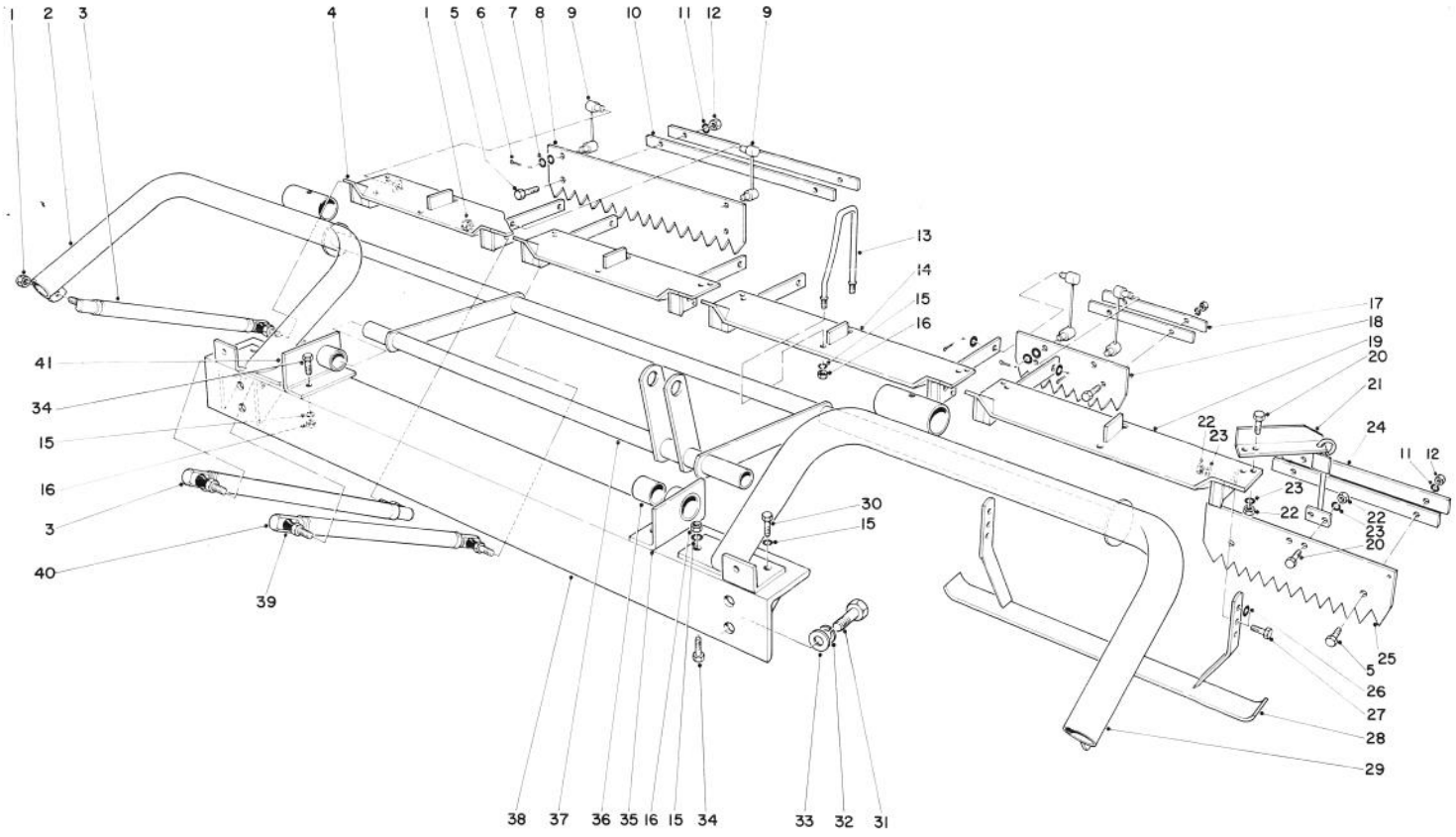


HYDRAULIC DRIVE MOTOR (FRONT) NO. 49-8620

Ref. No.	Part No.	Description	No. Used
1		Dirt Seal	1
2		Retaining Ring	1
3		Spacer	1
4		Shim	1
5		Seal	1
6†		Housing	1
7	28-1060	Thrust Bearing	1
8	28-0930	Thrust Washer	2
9		Seal Ring	2
10	28-0870	Needle Bearing	1
11	11-5790	Key Square	1
12	28-0940	Coupling Shaft	1
13	28-0860	Needle Bearing	1
14	28-1050	Thrust Bearing	1
15†		Wear Plate	1
16	49-8550	Drive Link	1
17	49-8570	Rotor Assembly	1

Ref. No.	Part No.	Description	No. Used
18	353-828	Screw – Cap Hex. Hd.	7
19†		End Cover	1
20†		Insert – Thrust Washer	1
21	49-8560	Sleeve	1
22		Bonded Ring	1
23		Commutator Ring	1
24		Commutator	1
25		Manifold	1
26		Manifold Plate	1
27	26-3790	Locknut	1
*	36-5000	Manifold Assembly (Incl. Ref. #25 & 26)	1
*	28-1100	Commutator Assembly (Incl. Ref. #23 & 24)	1
*	353-461	Seal Kit (Incl. Ref. #1-5, 9 & 22)	1

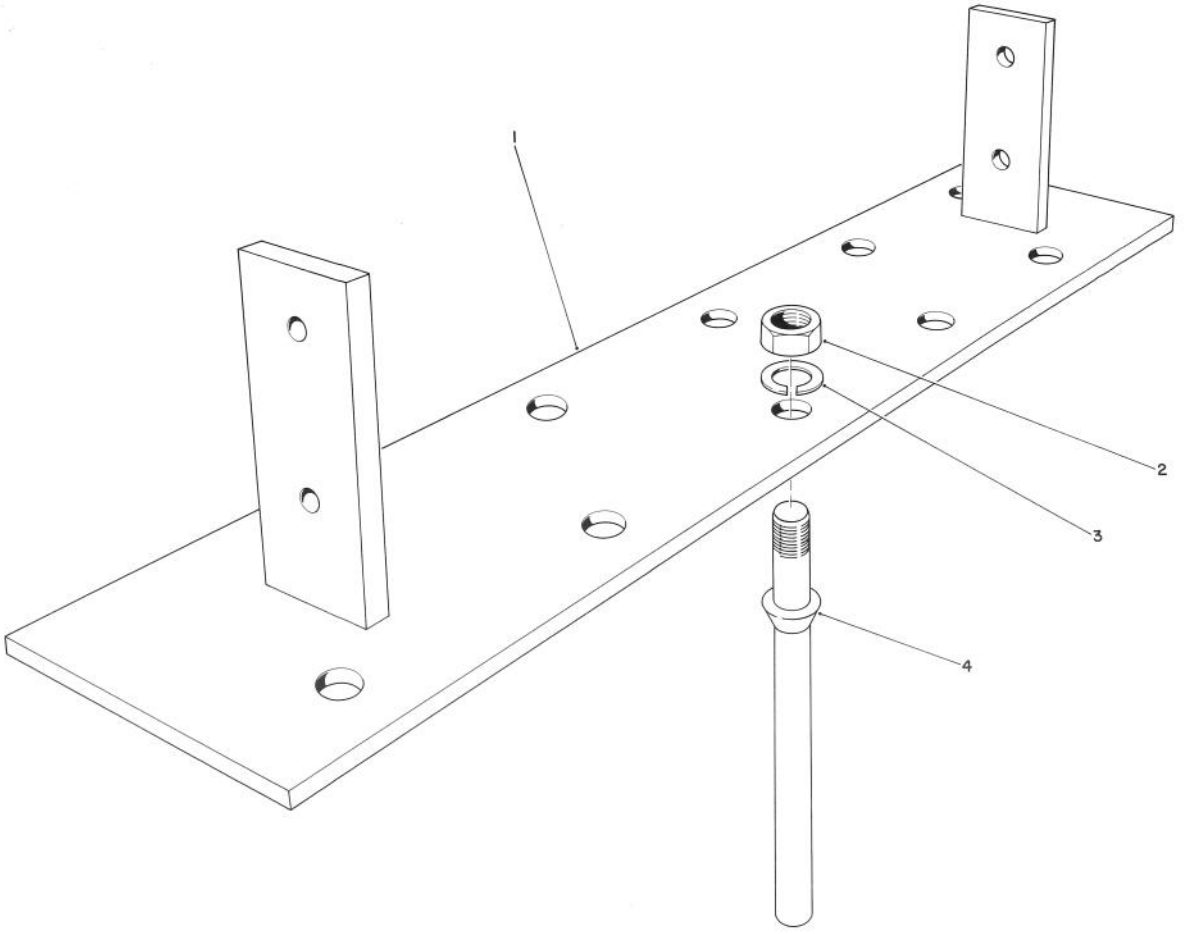
*Not Illustrated.
†Not available from Toro as a replacement part.



RAKE ASSEMBLY MODEL NO. 08811 (Optional)

Ref. No.	Part No.	Description	No. Used
1	3296-5	Nut	16
2	18-7260	Wheel Hoop R.H.	1
3	18-7550	Ball Joint Assembly (Incl. Ref. #39)	4
4	18-7450	Upper Rake	1
5	322-5	Capscrew	18
6	3272-10	Cotter Pin	28
7	3256-23	Washer	42
8	18-7560	Plate Drag Main	4
9	20-4670	Drag Cable Assembly	14
10	18-7570	Weight Drag	8
11	3253-4	Lockwasher	18
12	3217-6	Nut	18
13	18-7520	Hoop Lift	4
14	18-7380	Upper Rake (Center)	2
15	3253-21	Lockwasher	14
16	3217-7	Nut	12
17	18-7590	Weight Drag (Secondary)	6
18	18-7580	Plate Drag (Secondary)	3
19	18-7420	Upper Rake L.H.	1
20	321-4	Capscrew	8
21	18-7660	Swivel Bracket	2
22	3217-5	Nut	24

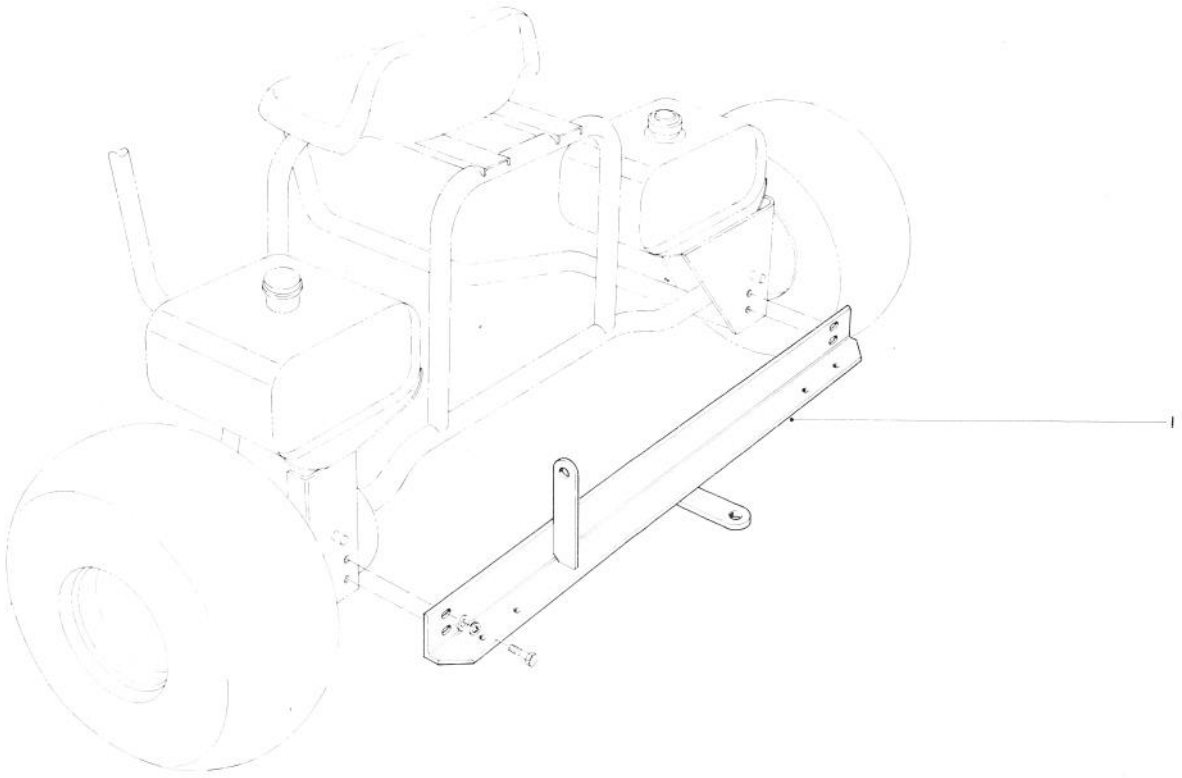
Ref. No.	Part No.	Description	No. Used
23	3253-3	Lockwasher	24
24	18-7650	Weight	4
25	18-7640	Swivel Drag	2
26	3256-22	Washer	8
27	321-31	Capscrew	16
28	18-7460	Rake Bar	4
29	18-7360	Wheel Hoop L.H.	1
30	323-3	Capscrew	2
31	325-5	Capscrew	4
32	3253-7	Lockwasher	4
33	3256-26	Flatwasher	4
34	323-6	Capscrew	4
35	18-7220	Pivot Bracket L.H. (Incl. Ref. #36)	1
36	256-234	Bushing	2
37	18-7170	Lift Bar	1
38	18-7280	Mount Rake	1
39	2411-31	Rubber Boot	16
40	18-7530	Ball Joint Assembly (Center) (Incl. Ref. #39)	4
41	18-7250	Pivot Bracket R.H. (Incl. Ref. #36)	1



PRONG RAKE KIT NO. 42-3960 (Optional)

Ref. No.	Part No.	Description	No. Used
1	42-1910	Plate	4
2	3217-7	Nut	40
3	3253-29	Lockwasher	40
4	42-1940	Prong – Rake	40

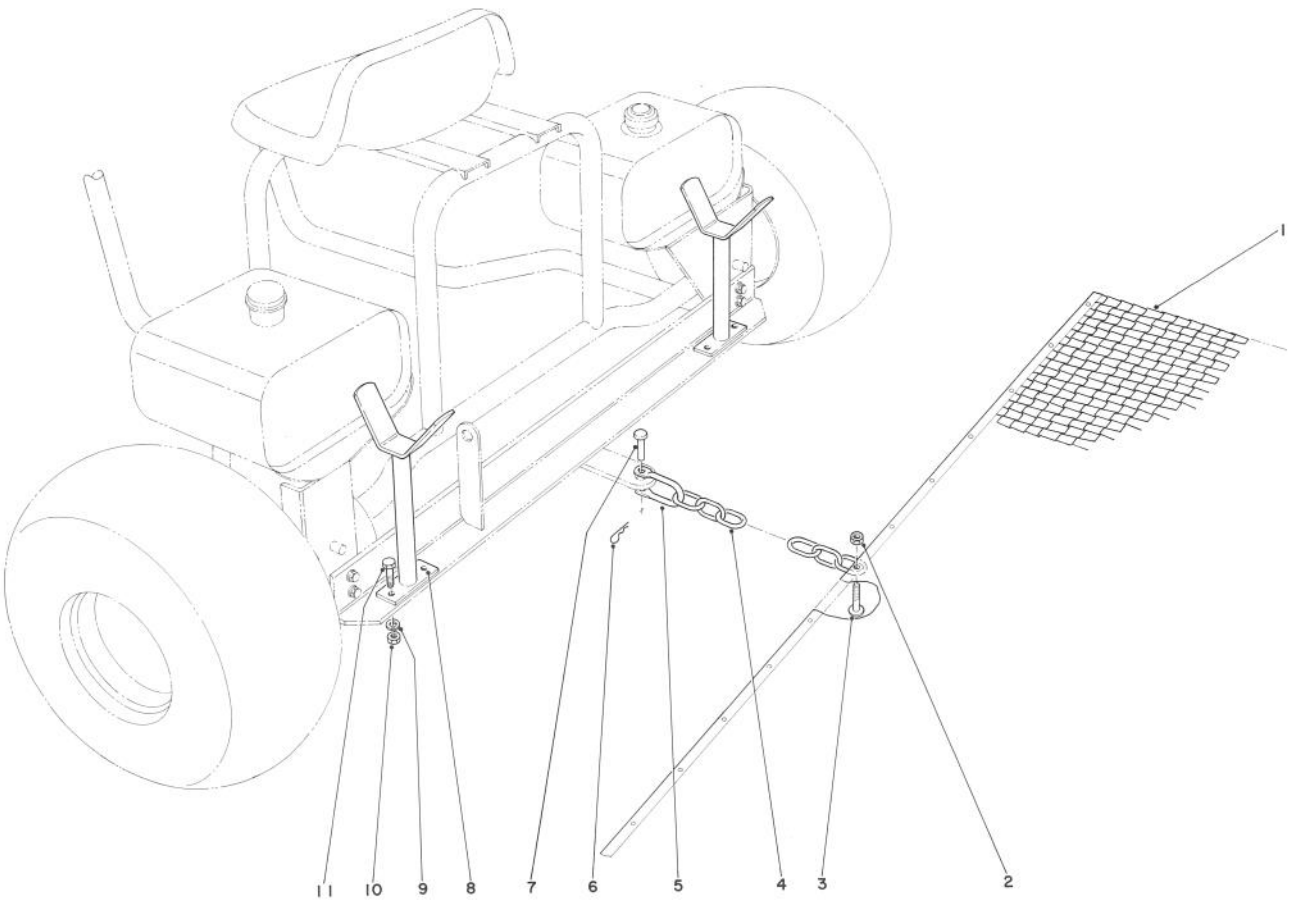
Note: Used with Rake Attachment Model No. 08811.



HITCH KIT MODEL NO. 08833 (Optional)

Ref. No.	Part No.	Description	No. Used
1	20-3910	Hitch	1

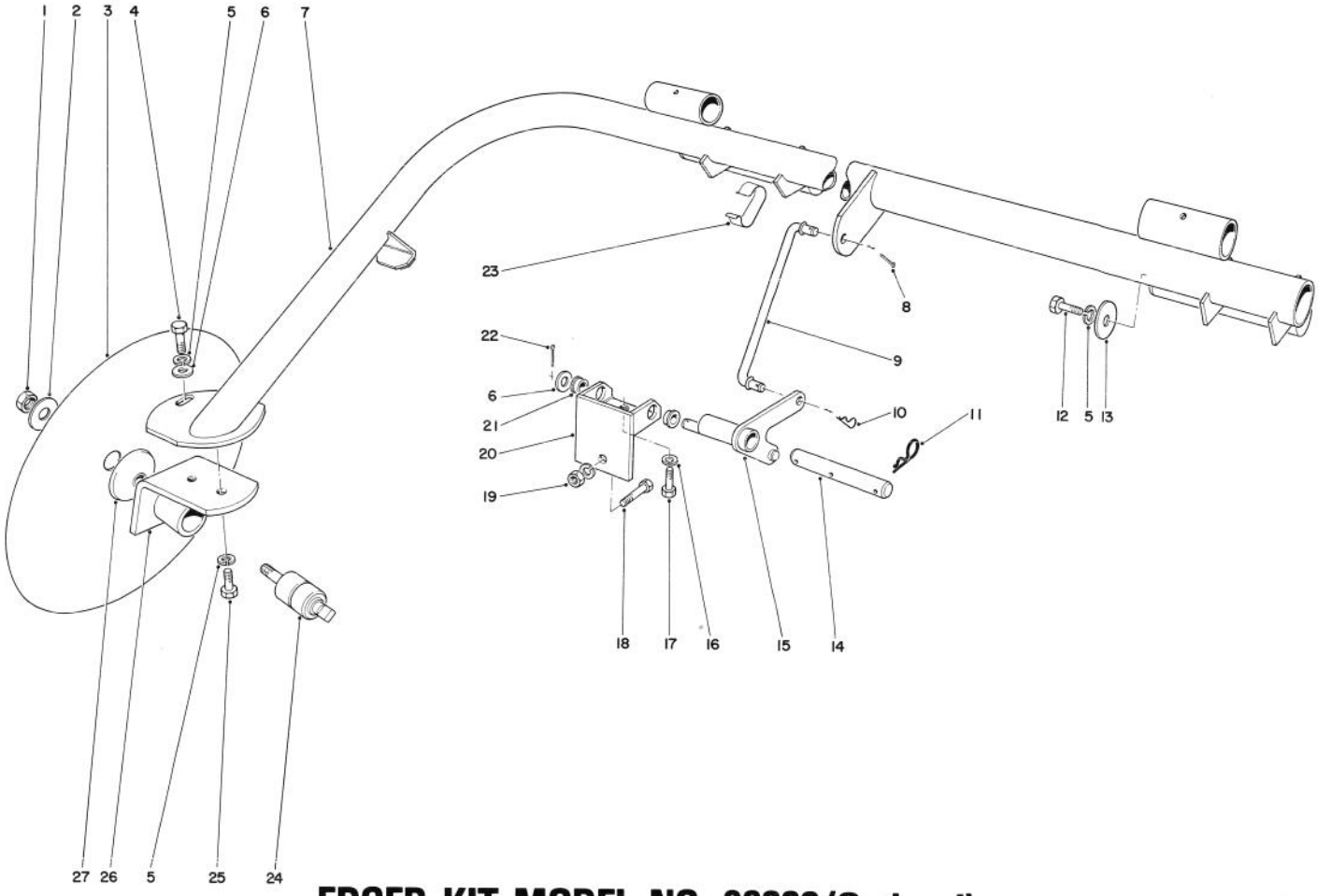
Ref. No.	Part No.	Description	No. Used



DRAG MAT KIT MODEL NO. 08844 (Optional)

Ref. No.	Part No.	Description	No. Used
1	20-4290	Drag Mat	1
2	3296-29	Locknut	1
3	32122-35	Machine Screw	1
4	2820-2	Chain	1
5	5-2942	Shackle	1
6	3290-250	Hair Pin Cotter	1

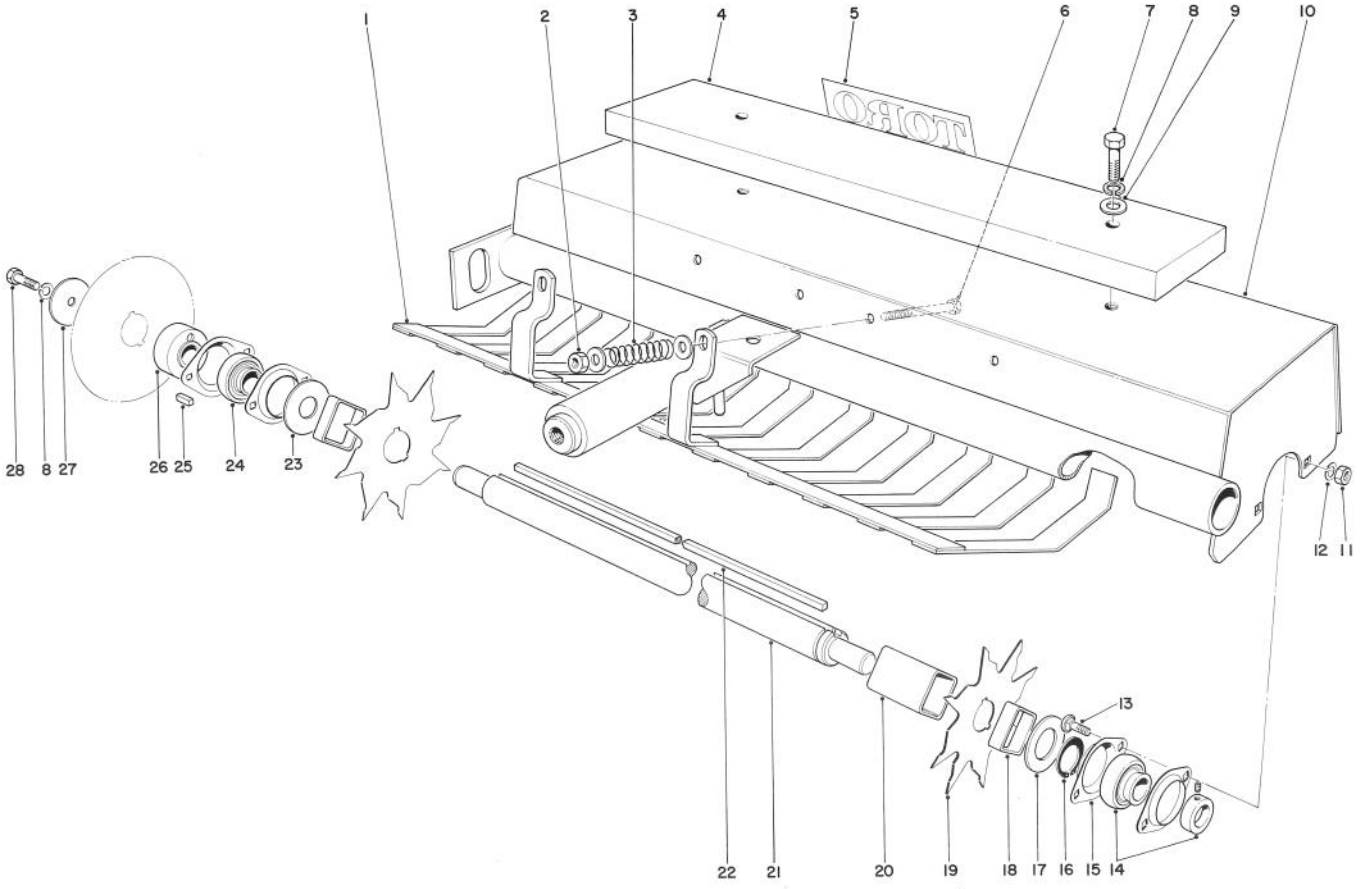
Ref. No.	Part No.	Description	No. Used
7	283-10	Pin	1
8	28-0830	Drag Mat Holder	2
9	3253-21	Lockwasher	4
10	3217-7	Nut	4
11	323-29	Capscrew	4



EDGER KIT MODEL NO. 08822 (Optional)

Ref. No.	Part No.	Description	No. Used
1	3296-33	Locknut	1
2	3256-7	Flatwasher	1
3	20-4070	Edger Disk	1
4	325-5	Capscrew	1
5	3253-7	Lockwasher	3
6	3256-26	Flatwasher	2
7	20-4030	Edger Arm	1
8	3272-2	Cotter Pin	1
9	20-4190	Actuator Link	1
10	3290-250	Hair Pin Cotter	1
11	3290-256	Hair Pin Cotter	2
12	323-4	Capscrew	1
13	5-1720	Washer	1
14	20-4230	Cylinder Pin	1

Ref. No.	Part No.	Description	No. Used
15	20-3980	Bell Crank	1
16	3253-21	Lockwasher	2
17	325-2	Capscrew	1
18	323-7	Capscrew	1
19	3217-7	Full Nut	1
20	20-3970	Pivot Mount (Incl. Ref. 21)	1
21	256-156	Bushing	2
22	3272-7	Cotter Pin	1
23	20-4200	Spring Clip	2
24	20-4090	Edger-Disk Bearing	1
25	325-4	Capscrew	1
26	20-4020	Disk Support Plate (Incl. Ref. 24)	1
27	20-4050	Disk Support	1

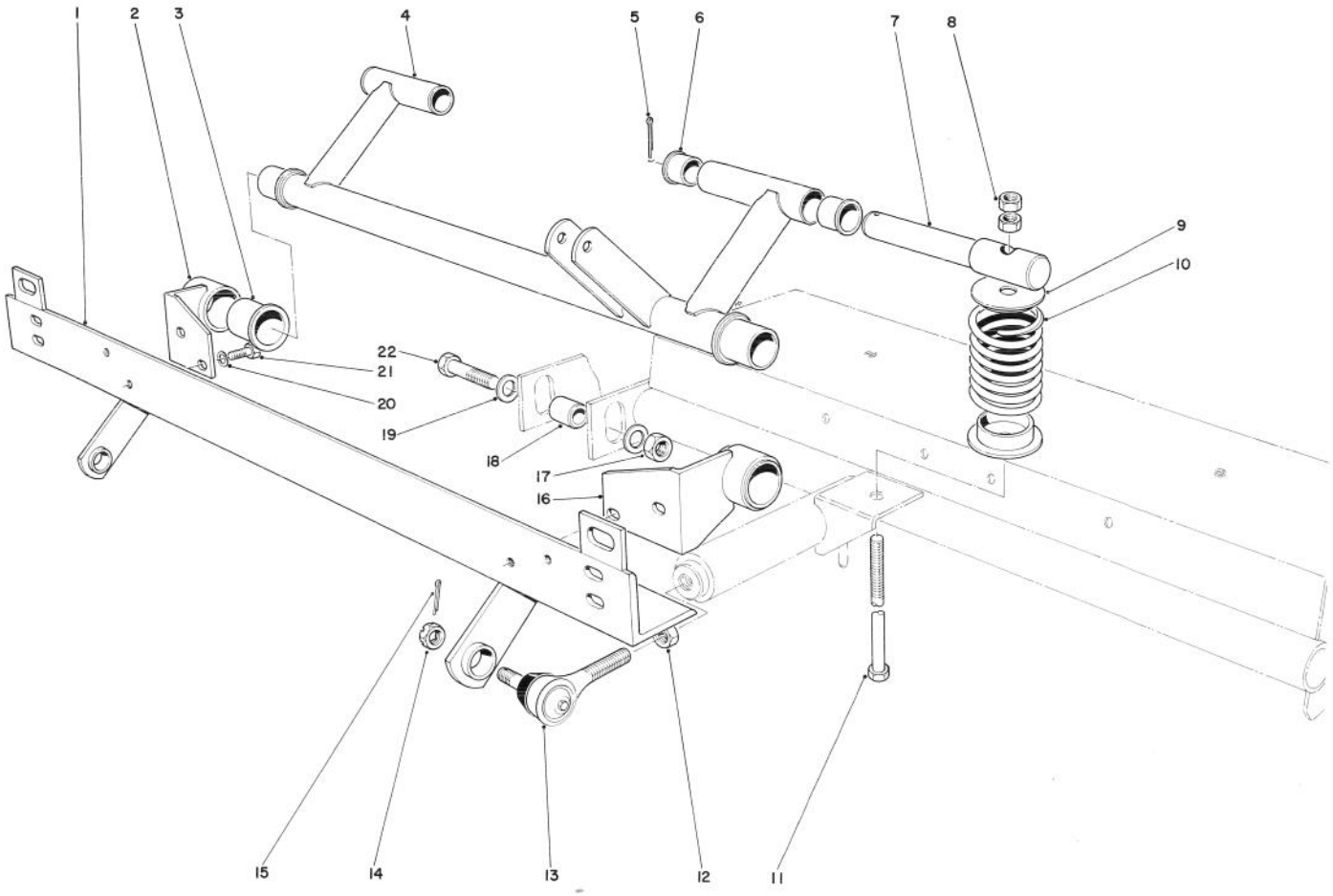


SPIKER MODEL NO. 08855 (Optional)

Ref. No.	Part No.	Description	No. Used
1	20-9140	Fork Assembly L.H.	1
*	20-9150	Fork Assembly R.H.	1
2	3296-39	Locknut	4
3	20-9550	Compression Spring	4
4	20-9430	Weight	2
5	43-5110	Decal	1
6	323-14	Capscrew	4
7	323-10	Capscrew	4
8	3253-21	Lockwasher	6
9	3256-24	Flatwasher	12
10	20-9040	Frame Assembly L.H.	1
*	20-9050	Frame Assembly R.H.	1
11	3217-6	Nut	8
12	3253-4	Lockwasher	8
13	3230-1	Carriage Bolt	8

Ref. No.	Part No.	Description	No. Used
14	251-253	Bearing w/Collar Assembly	2
15	251-255	Flange	8
16	32151-44	Retaining Ring	2
17	20-9490	Washer	2
18	20-7400	End Spacer	4
19	20-7380	Spike Blade	24
20	20-9480	Spacer	20
21	20-9470	Shaft	2
22	20-9460	Key	2
23	20-9500	Washer	2
24	251-254	Bearing	2
25	20-9540	Key	2
26	20-9980	Hub	2
27	20-9530	End Washer	2
28	323-7	Capscrew	2
*	21-6000	Spiker Depth Gauge	1

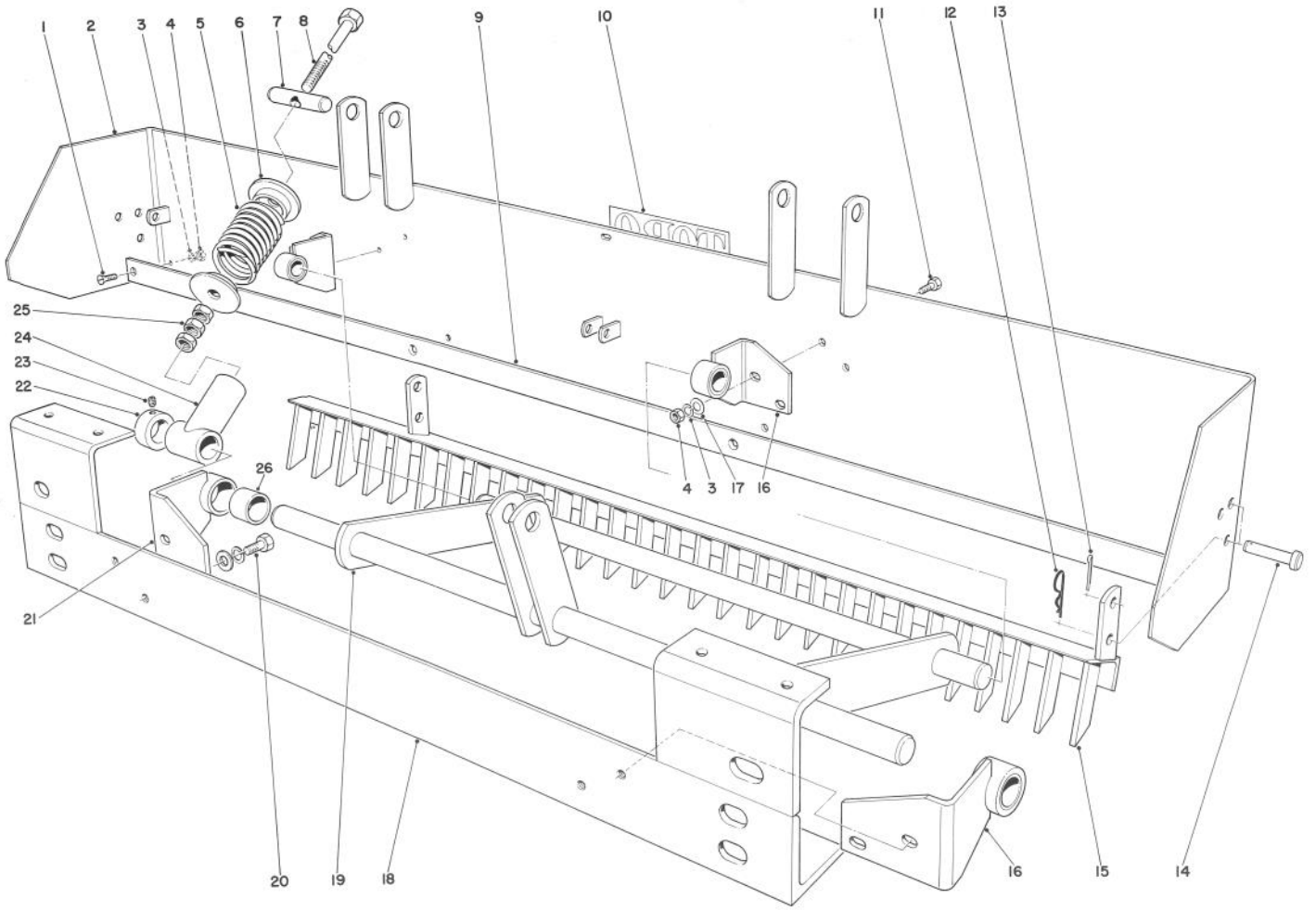
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SPIKER MODEL NO. 08855 (Continued) (Optional)

Ref. No.	Part No.	Description	No. Used
1	20-9310	Mount	1
2	20-9270	Anchor R.H. (Incl. Ref. #3)	1
3	256-245	Bushing	2
4	20-9190	Lift Arm (Incl. Ref. #6)	1
5	3272-13	Cotter Pin	2
6	256-10	Bushing	2
7	20-9400	Actuating Pin	2
8	3217-9	Nut	4
9	20-9350	Spring Mount	4
10	20-9420	Spring	2
11	20-9390	Actuating Rod	2

Ref. No.	Part No.	Description	No. Used
12	20-9990	Nut	2
13	21-4010	Ball Joint (Incl. Ref. #14)	2
14	32136-3	Slotted Nut	2
15	3272-7	Cotter Pin	2
16	20-9260	Anchor L.H.	1
17	3296-25	Locknut	1
18	20-9410	Center Support Tube	1
19	3256-26	Flat Washer	2
20	3253-21	Lockwasher	4
21	323-5	Capscrew	4
22	325-8	Capscrew	1



FINISH GRADER KIT MODEL NO. 08867 (Optional)

Ref. No.	Part No.	Description	No. Used
1	32108-39	Flat Hd. Screw	4
2	23-2780	Plow	1
3	3253-21	Lockwasher	12
4	3217-7	Hex Nut	12
5	20-9420	Compression Spring	2
6	23-2760	Spring Mount	4
7	23-2740	Actuating Pin	2
8	23-2770	Actuating Rod	2
9	23-2790	Blade Scraper	1
10	**43-5110**	Decal	1
11	323-7	Capscrew	4
12	3290-355	Hair Pin Cotter	2
13	3272-11	Cotter Pin	3
14	283-40	Clevis Pin	5

Ref. No.	Part No.	Description	No. Used
15	23-2750	Scarifier (43 Fingers)	1
*	23-3010	Scarifier (22 Fingers)	1
16	23-2810	Anchor L.H. (Incl. Ref. #26)	2
17	3256-24	Flat Washer	8
18	23-2710	Mount	1
19	23-2680	Lift Arm	1
20	323-5	Capscrew	4
21	23-2690	Anchor R.H. (Incl. Ref. #26)	2
22	23-2730	Lock Collar	2
23	3246-1	Set Screw	2
24	23-2720	Adjusting Sleeve	2
25	3217-11	Hex Nut	6
26	256-237	Bushing	4
*	26-0030	Decal Infield Pro	1

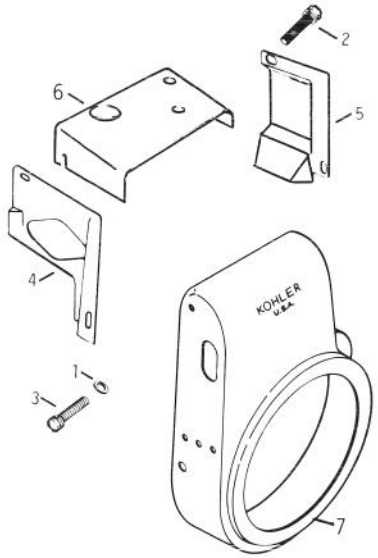
*Not Illustrated

ENGINE KOHLER MODEL NO. K321S SPEC. NO. 60434

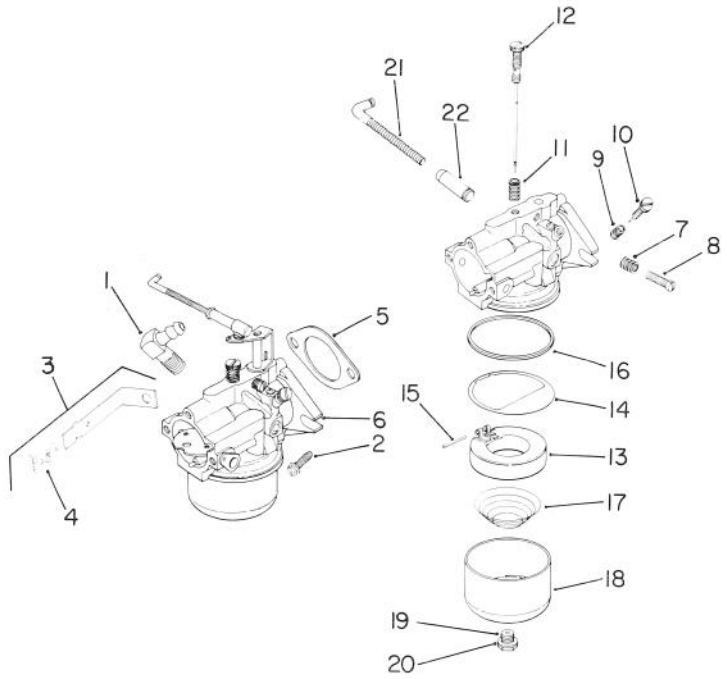
GROUP 1



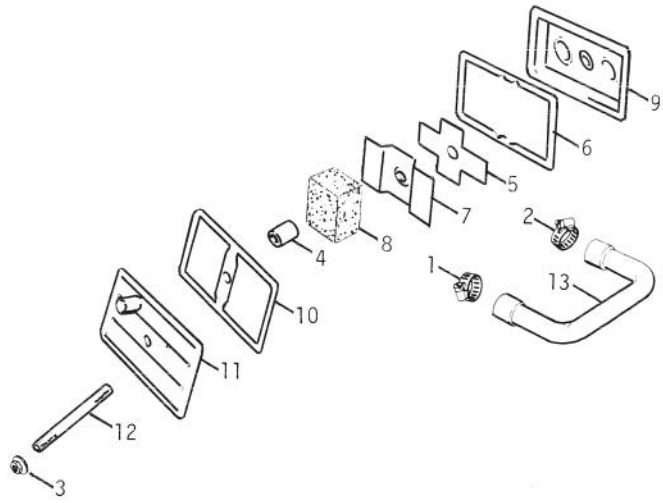
GROUP 2



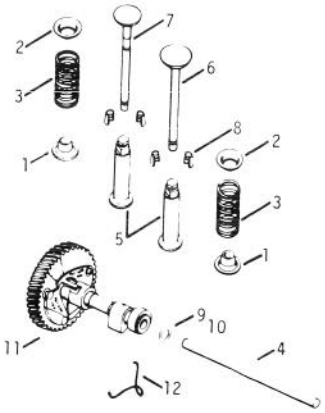
GROUP 5



GROUP 3



GROUP 4

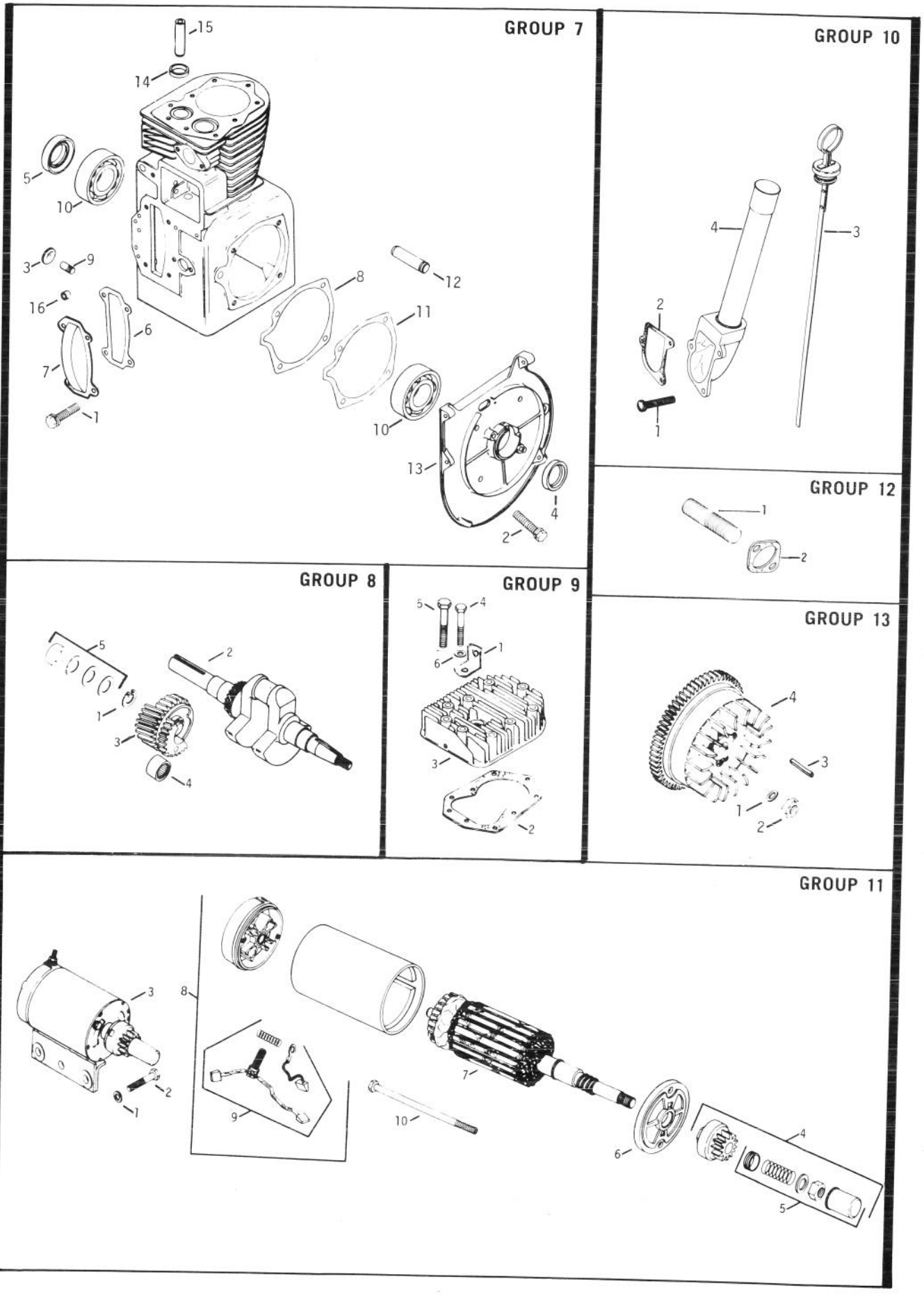


ENGINE KOHLER MODEL NO. K321S SPEC. NO. 60434

Ref. No.	Part No.	Description	No. Used
		AIR INTAKE – Group 1	
1	4704102	Gasket, Air Horn	1
		BAFFLES & SHROUD – Group 2	
1	X-25-53	Washer, Plain 1/4	1
2	X-132-2	Screw, H.C. 1/4-20x3/4	4
3	X-132-6	Screw, H.C. 1/4-20x1/2	2
4	235652	Baffle, Side Air	1
5	236676	Baffle, Cylinder	1
6	237677	Baffle, Head	1
7	4702718	Housing, Blower	1
		BREATHER & VENT – Group 3	
1	X-426-3	Clamp, Hose	1
2	X-426-9	Clamp, Hose	1
3	X-799-1	Nut, Hex, 1/4-20	1
4	231032	Seal, Breather	1
5	235047	Reed, Breather	1
6	235048	Gasket, Breather Plate	1
7	235117	Baffle, Breather	1
8	235118	Filter, Breather	1
9	235631	Plate, Breather	1
10	275144	Gasket, Valve Cover	1
11	275839	Cover, Valve	1
12	275220	Stud, Valve Cover	1
13	4732602	Hose	1
		CAMSHAFT & VALVES – Group 4	
1	230020	Rotator	2
2	235011	Retainer, Spring Upper	2
3	235168	Spring, Valve	2
4	235193	Pin, Camshaft	1

Ref. No.	Part No.	Description	No. Used
5	D-235327	Tappet	2
6	235582	Valve, Intake	1
7	237672	Valve, Exhaust	1
8	4175510	Kit, Retainer	2
9	275066	Spacer .005 (A.R.)	1
10	275067	Spacer .010 (A.R.)	1
11	4701009	Camshaft Assembly	1
12	4708901	Spring, Actuating	1
		CARBURETOR – Group 5	
1	2515502	Connector, 90° Hose	1
2	X-770-1	Screw, Sltd. Hd. 5/16-18x1	2
3	A-236919	Bracket, Choke Assembly	1
4	235603	Clip	1
5	271030	Gasket, Carburetor	1
6	47 053 61	Carburetor Assembly	1
7	232555	Spring, Idle Speed	1
8	232556	Screw, Idle Speed Adj.	1
9	200380	Spring, Idle Fuel	1
10	275231	Needle, Idle Fuel Adj.	1
11	200383	Spring, Main Fuel	1
12	45 103 01	Needle, Main Fuel Adj.	1
13	25 757 03	Kit, Float	1
14	25 041 02	Gasket, Bowl Baffle	1
15	200376	Pin, Float Hinge	1
16	200375	Gasket, Bowl	1
17	237917	Spring, Float	1
18	235448	Bowl, Fuel	1
19	47 100 06	Screw, Bowl Retainer	1
20	200372	Gasket, Bowl Ret. Screw	1
21	235277	Rod, Ball Joint	1
22	45 208 03	Joint, Ball	1
	25 757 02	Kit, Carburetor Repair	1

ENGINE KOHLER MODEL NO. K321S SPEC. NO. 60434 (Continued)



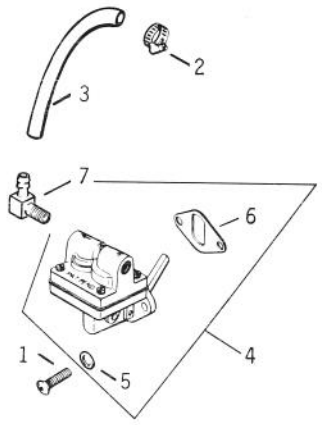
ENGINE KOHLER MODEL NO. K321S SPEC. NO. 60434 (Continued)

Ref. No.	Part No.	Description	No. Used
		CRANKCASE – Group 7	
1	X-132-6	Screw, H.C. 1/4-20x1/2	4
2	X-159-2	Screw, H.C. 3/8-16x1	4
3	X-230-11	Plug	1
4	4703206	Seal, Front Oil	1
5	4703207	Seal, Rear Oil	1
6	235025	Gasket, Cover	1
7	235026	Cover, Camshaft	1
8	235070	Gasket (A.R.)	1
9	235125-S	Shaft, Governor	1
10	235376	Bearing, Ball	2
11	235757	Gasket, Bearing Plate	1
12	236559	Shaft	2
13	4515602	Plate, Bearing	1
		Block, Cylinder Assembly	
	B-237837	(Use: Miniblock)	1
14	230265	Insert, Intake	2
15	235007-S	Guide, Valve	2
16	234866	Bearing	1
		CRANKSHAFT – Group 8	
1	X-269-34	Retainers	2
2	4501405	Crankshaft	1
3	4704201	Gear Assembly	2
4	4703001	Bearing, Needle	2
5	4775501	Kit, Spacer	1
		CYLINDER HEAD – Group 9	
1	4744501	Strap, Lifting	1
2	4704110	Gasket, Head	1
3	237670	Head, Cylinder	1

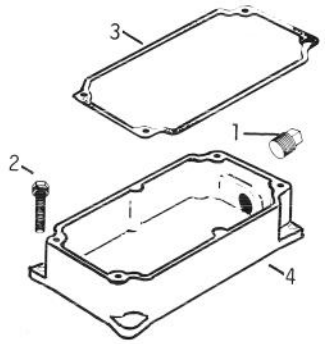
Ref. No.	Part No.	Description	No. Used
4	270158	Screw, H.C. 3/8-16x1-1/2	8
5	270721	Screw, H.C. 3/8-16x1-3/4	1
6	270889	Washer 3/8	10
		DIPSTICK – Group 10	
1	X-131-2	Screw, R.H. 10-24x1/2	3
2	237064	Gasket	1
3	4703816	Dipstick	1
4	4718004	Tube, Oil Fill	1
		ELECTRIC START – Group 11	
1	X-22-1	Washer 3/8	2
2	234948	Screw, H.C. 3/8-16x1-11/32	2
3	4509807	Starter Assembly	1
4	4775507	Kit, Drive	1
5	4775513	Kit, Drive Parts	1
6	237650	Cap, Drive End	1
7	4517002	Armature	1
8	4822704	Cap, Commutator End	1
9	4875515	Kit, Brush	1
10	237649	Thru Bolt w/Washer	2
		EXHAUST – Group 12	
1	235899	Stud	2
2	235122	Gasket, Exhaust	1
		FLYWHEEL – Group 13	
1	X-25-104	Washer, Plain 5/8	1
2	X-119-14	Nut, Lock 5/8-18	1
3	X-286-17	Key	1
4	4702528	Flywheel	1

ENGINE KOHLER MODEL NO. K321S SPEC. NO. 60434 (Continued)

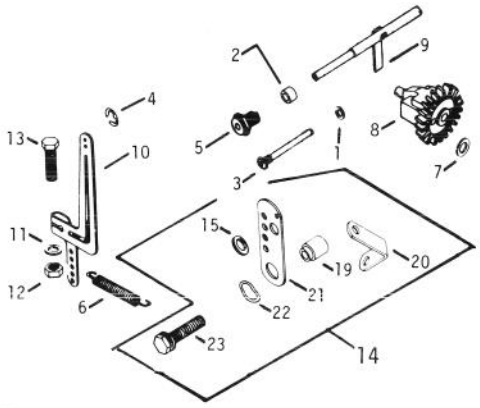
GROUP 14



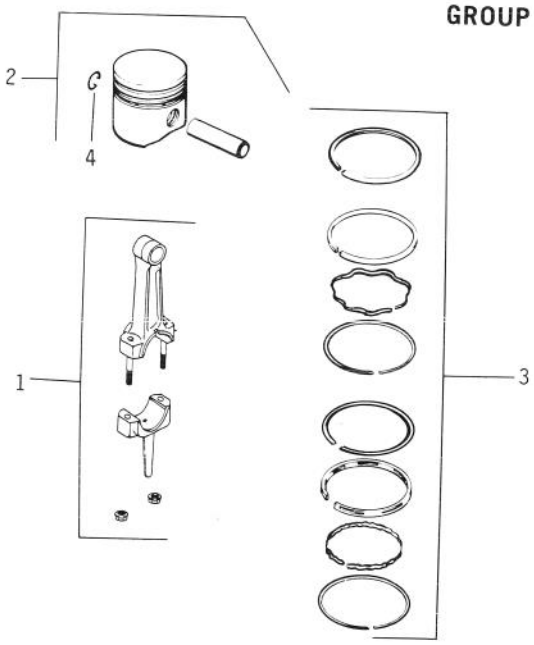
GROUP 21



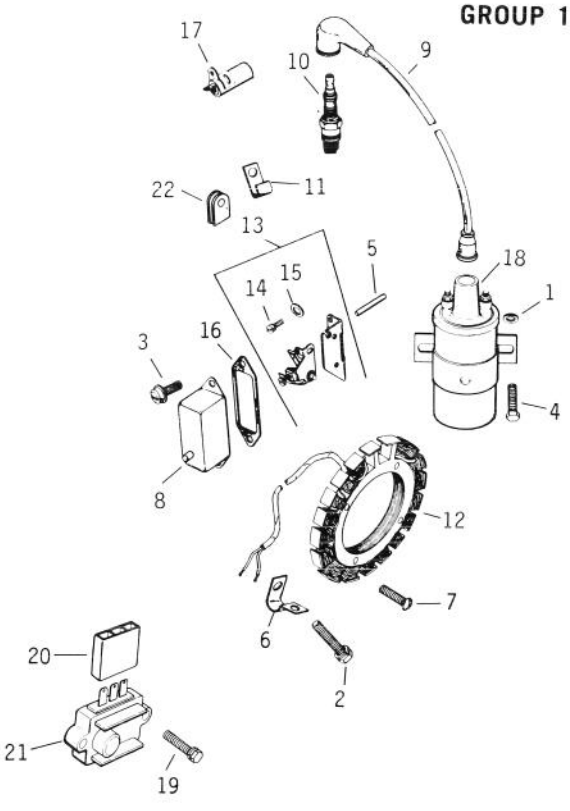
GROUP 17



GROUP 22



GROUP 18



ENGINE KOHLER MODEL NO. K321S SPEC. NO. 60434 (Continued)

Ref. No.	Part No.	Description	No. Used
		FUEL PUMP — Group 14	
1	X-174-2	Screw, F.H.M. 1/4-20x3/4	2
2	X-426-9	Clamp, Hose	2
3	X-810-1	Line, Fuel	1
4	4755904	Pump, Fuel Assembly	1
5	X-25-63	Washer, Plain 1/4	2
6	4704104	Gasket, Fuel Pump	1
7	2515502	Connector, 90° Hose	1
		GOVERNOR — Group 17	
1	2546801	Washer, Plain 1/4	1
2	X-400-80	Spacer	1
3	231355	Pin, Governor Stop	1
4	235278	Retainer, Rod	1
5	235476	Bushing	1
6	235496	Spring, Governor	1
7	237022	Washer, Thrust	1
8	A-236294S	Gear, Governor	1
9	237455	Shaft, Governor	1
10	A-237653	Lever, Governor Assy.	1
11	X-25-72	Washer, Plain 1/4	1
12	X-81-1	Nut, Hex. 1/4-20	1
13	X-776-1	Screw, Sems 1/4-20x1-1/4	1
14	A-236896	Bracket, Control Assy.	1
15	X-25-63	Washer, Plain 1/4	1
19	235085	Spacer	1
20	235084	Bracket	1
21	235086	Bracket	1
22	275690	Washer, Wave	1
23	X-132-9	Screw, H.C. 1/4-20x1-1/4	1
		IGNITION — Group 18	
1	X-25-52	Washer, Plain 1/4	2
2	X-67-59	Screw, Tapping 8-32x3/8	1
3	X-131-1	Screw, F.H.M. 10-24x3/8	4
4	X-132-2	Screw, H.C. 1/4-20x3/4	1
5	4741104	Rod, Breaker Push	1
6	X-728-1	Clip, Hi-Tension	4
7	X-778-1	Screw, R.H. 10-24x3/4	1
8	232535	Cover	1
9	238057	Kit, Hi-Tension Lead	1

Ref. No.	Part No.	Description	No. Used
10	235710S	Plug, Spark	1
11	275303	Clip, Lead	1
12	237878	Kit, Stator	1
13	4715003	Breaker Assembly	1
14	X-141-5	Screw, R.H.M.	2
15	X-25-65	Washer — Plain	2
16	5204111	Gasket, Point Cover	1
17	230722	Condenser	1
18	231281	Coil, Ignition	1
19	X-132-4	Screw, H.C. 1/4-20x1	2
20	236602	Connector	1
21	4140305	Rectifier-Regulator	2
22	220297	Grommet	1
		OIL PAN — Group 21	
1	235057	Gasket, Oil Pan	1
2	235147	Base, Oil Pan	1
3	X-159-3	Screw, H.C. 3/8-16x1-1/4	4
4	X-305-4	Plug, Mag. Drain 3/8 Hex Hd.	1
		PISTON & ROD — Group 22	
1		Rod, Connecting Assy. (Std.)	
	A-237344	Before Serial #15082623	1
	4706709	After Serial #15082622	1
		Rod, Connecting Assy. (.010)	
	A-237344-10	Before Serial #15082623	1
	4706710	After Serial #15082622	1
2	4707421	Piston Assy. (Std.)	1
	4707422	Piston Assy. (.003)	1
	4707423	Piston Assy. (.010)	1
	4707424	Piston Assy. (.020)	1
	4707425	Piston Assy. (.030)	1
3	236763	Ring Set (Std. & .003)	1
	236764	Ring Set (.010)	1
	236765	Ring Set (.020)	1
	236766	Ring Set (.030)	1
4	4701801	Retainer	2
	BN-237837	Miniblock	
	4775508	Gasket Set w/Seals	1
	4700401	Gasket set w/o Seals	1

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 Sand Pro has two identification numbers: a model number and a serial number. The two numbers are stamped on a plate which is located on left hand fender. In any correspondence concerning the Sand Pro 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 numbers of the Sand Pro.
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.

Keep Your TORO All Toro Genuine TORO PARTS & ACCESSORIES ***Insist on Genuine Toro Parts***

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