Form No. 3310-691

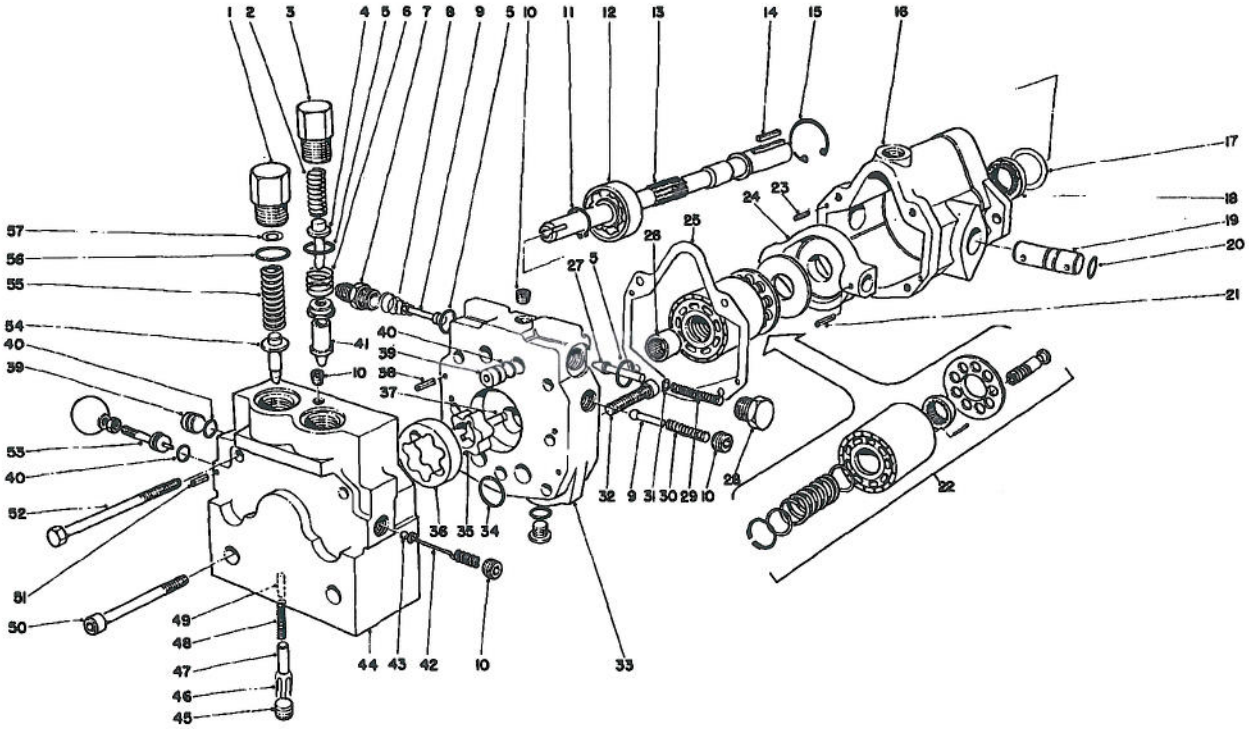
TORO

MODEL NO. 17-2460

PARTS CATALOG

PUMP SAND PRO

MODEL NO. 08875-20001 THRU 39999

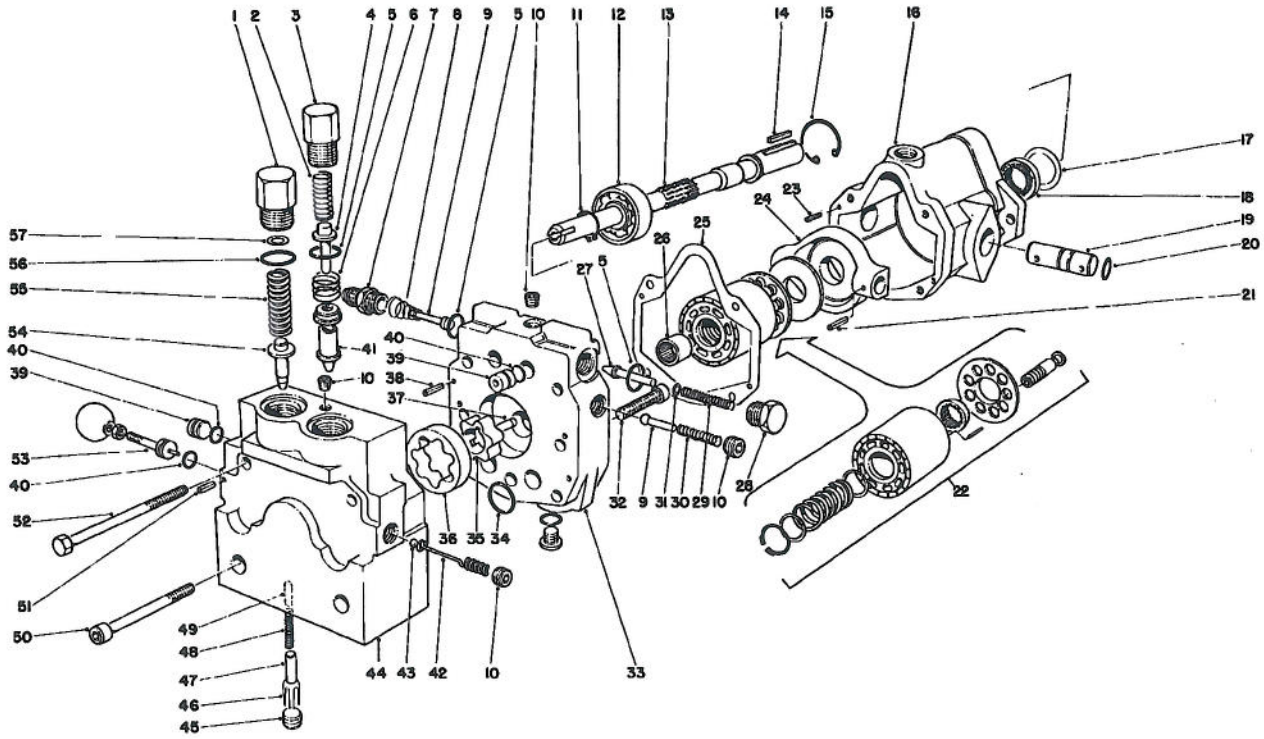


Ref. No.	Part No.	Description	No. Used
1	23-6560	Cap	1
2	23-6800	Spring	1
3	23-6790	Cap	1
4	23-6830	Pin-sub-assembly	1
5	237-79	O-Ring	3
6	23-6910	Spring	1
7	353-388	Connector	1
8	23-6680	Spring	1
9	23-6670	Valve Poppet	3
10	281-10	Plug	5
11	32120-15	Snap Ring	1
12	251-204	Bearing	1
13	23-7020	Shaft	1
14	5-1077	Key	1
15	32120-11	Snap Ring	1
16	23-6990	Pump Housing	1

Ref. No.	Part No.	Description	No. Used
17	23-7010	Spacer	1
18	23-7030	Seal	1
19	23-7000	Pintle	2
20	237-76	O-Ring	2
21	32121-89	Pin	2
22	23-7840	Cylinder Block & Piston Kit	1
23	32121-17	Pin	2
24	23-6980	Yoke	1
25	23-6700	Gasket	1
26	252-81	Bearing	1
27	23-6660	Valve Poppet	1
28	23-6650	Plug	1
29	23-6940	Spring	1
30	23-6970	Spring	2
31	25-3110	Shim	1
32	322-31	Screw	2

COPY
DO NOT REMOVE
Tech. Publications

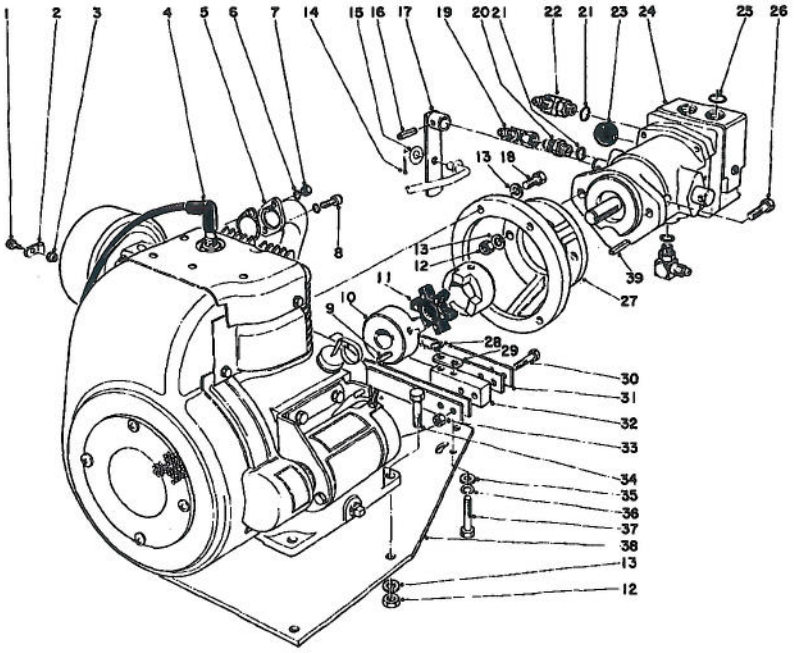
Copyright 1975 by
The Toro Company
Bloomington, Minnesota 55420 U.S.A.



Ref. No.	Part No.	Description	No. Used
33	23-6950	Valve Plate Sub-Assembly (Incl. Ref #26)	1
34	237-69	O-Ring	2
35		Inner Rotor	1
36		Outer Rotor	1
37	23-6690	Key	1
38	32121-1	Pin	2
39	23-6570	Plug	3
40	237-78	O-Ring	4
41	23-6840	Poppet Sub-Assembly	1
42	23-6510	Spring	1
43	23-6520	Ball	1
44	23-6930	Transfer Block	1
45	23-6590	Plug	1
46	23-6610	Guide	1
47	23-6630	Valve Poppet	1
48	23-6600	Spring	1
49	23-6640	Pin	1
50	322-34	Screw	2

Ref. No.	Part No.	Description	No. Used
51	32121-68	Pin	1
52	322-35	Screw	2
53	23-6580	Plunber	1
54	23-6530	Poppet	1
55	23-6920	Spring	1
56	237-80	O-Ring	1
57	23-6550	Shim	A/R
*	23-7060	Valve Repair Kits (Incl. Ref. No.s 45 Thru 49).	2
*	23-6900	Charge Pump Repair Kit (Incl. Ref. No.s 35-37).	1
*	23-7830	Rotating Group Kit (Incl. Ref. No. 22)	1
*	23-7050	Transfer Block & Valve Plate Assy. (Incl. Ref. #1-10, 25-30, 32-39, 40-49 & 50-57).	1
*	23-7040	Seal Kit Complete (Incl. Ref. Nos. 5, 18, 20, 25, 34, 40, & 56).	1

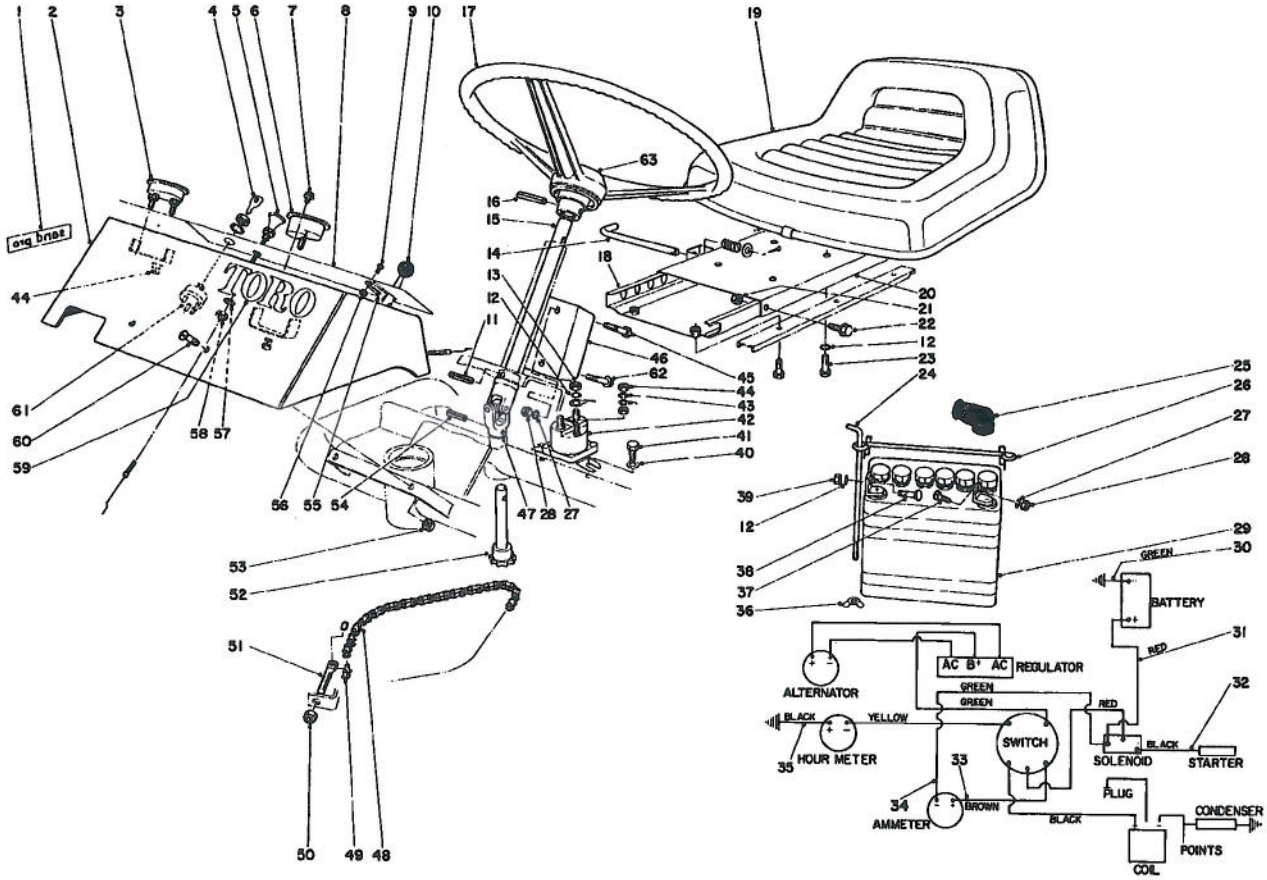
* Not Illustrated



ENGINE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3290-134	Hex Head Machine Screw	1
2	2412-31	Clip Wire	1
3	3296-2	Stop Nut	1
4	221-433	Engine (Kohler Model K181PS Type No. 30563D)	1
5	18-6400	Exhaust Pipe	1
6	3253-4	Lockwasher	2
7	3217-6	Nut	1
8	3274-10	Hex Socket Capscrew	1
9	18-6430	Square Key	1
10	17-4750	Coupling	1
11	18-7740	Cushion	1
12	3217-7	Nut, Full	4
13	3253-5	Lockwasher	8
14	3272-21	Cotter Pin	1
15	3256-25	Washer	1
16	32121-24	Roll Pin	1
17	18-6450	Pump Lever	1
18	323-6	Capscrew	4
19	353-432	90° Male Tube Female Swivel	1
20	353-388	Straight Fitting (Incl. Ref. 21)	1

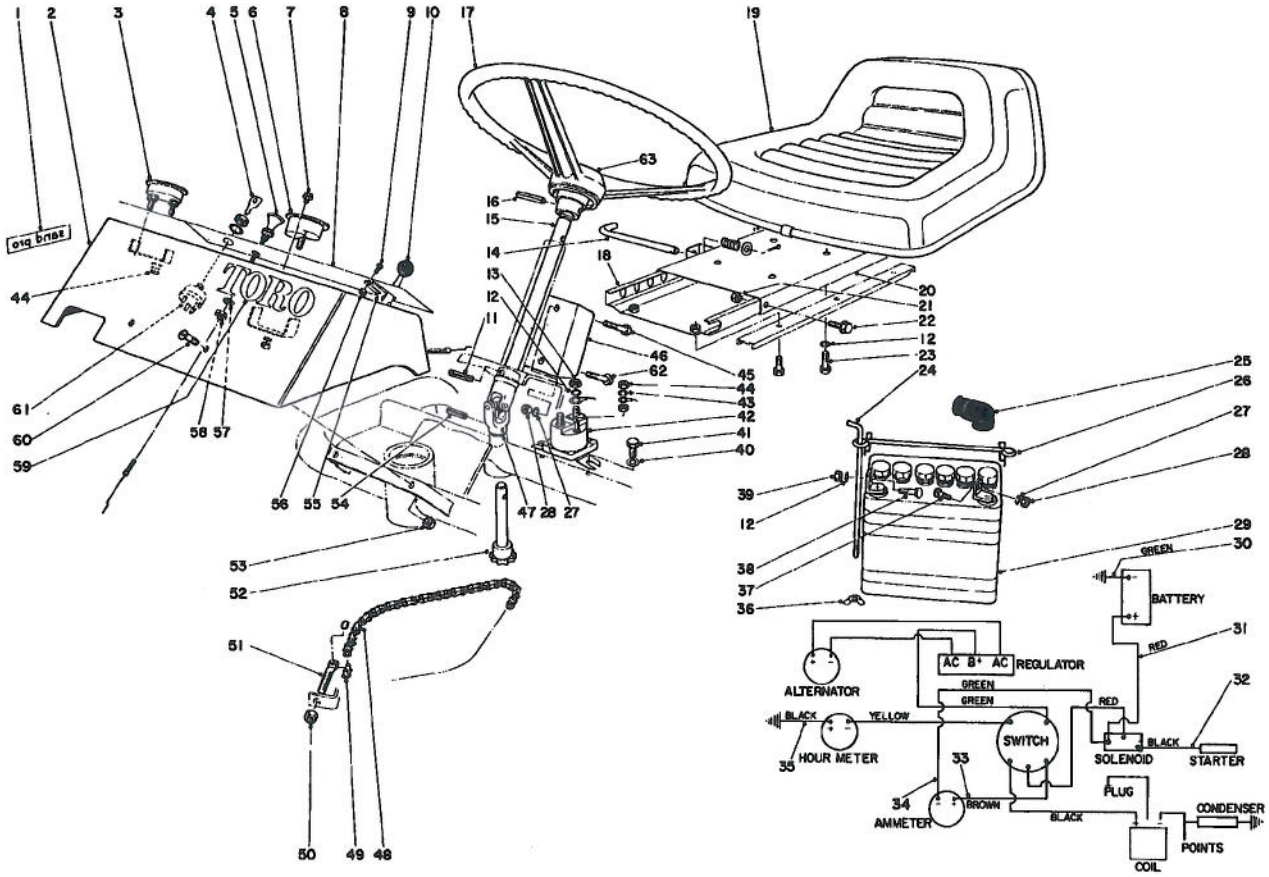
Ref. No.	Part No.	Description	No. Used
21	237-79	O-Ring	3
22	353-371	90° Adjustment Elbow (Incl. Ref. 31)	2
23	233-32	Knob	1
24	17-2460	Pump	1
25	237-80	O-Ring	2
26	323-8	Capscrew	2
27	17-4760	Pump Mount	1
28	3246-2	Set Screw	2
29	32141-121	Spot Weld Nut	1
30	321-8	Capscrew	2
31	18-6510	Spring Leaf	4
32	18-6500	Block Spring	1
33	3296-8	Locknut	2
34	323-8	Capscrew	2
35	3256-22	Flatwasher	1
36	3253-3	Lockwasher	2
37	321-9	Capscrew	2
38	18-6490	Engine Base	1
39	5-1077	Key	1



INSTRUMENT PANEL AND WIRING DIAGRAM

Ref. No.	Part No.	Description	No. Used
1	18-7020	Decal - Sand Pro	2
2	19-2110	Dash	1
3	7-6130	Ammeter	1
4	218-412	Key (Set of 2)	1
5	19-2090	Choke Control	1
6	12-9990	Hour Meter	1
7	32104-82	Screw Self Tapping	2
8	19-2120	Decal	1
9	3251-2	Machine Screw	2
10	233-25	Knob	1
11	32121-9	Roll Pin	1
12	3253-4	Lockwasher	3
13	3218-13	Nut - Brass	4
14	351-52	Plunger Assembly	1
15	18-6360	Steering Shaft	1
16	32121-9	Roll Pin	1
17	17-4690	Steering Wheel	1
18	351-36	Lower Slide Assembly	1
19	20-0930	Seat	1
20	351-53	Upper Slide Assembly	1
21	3218-1	Jam Nut	2
22	321-2	Capscrew	2
23	322-2	Capscrew	4

Ref. No.	Part No.	Description	No. Used
24	7-3328	Bolt - Battery	2
25	218-331	Battery Boot	2
26	7-0534	Battery Clamp Assembly	1
27	3253-3	Lockwasher	2
28	3217-5	Nut	2
29	239-14	Battery	1
30	10-7160	Wire Battery to Ground	1
31	18-7840	Wire Solenoid to Battery	1
32	18-6560	Wire Solenoid to Starter	1
33	18-8080	Wiring Harness	1
34	18-7830	Wire Solenoid to Neg. Ammeter	1
35	18-6580	Hour Meter to Ground	1
36	32103-12	Wing Nut	2
37	3229-1	Carriage Bolt	1
38	3230-1	Carriage Bolt	1
39	3217-6	Nut	1
40	3256-22	Washer	2
41	32140-79	Hex. Hd. Thread Cutting Screw	2
42	6-1600	Solenoid	1
43	3253-17	Lockwasher	1
44	3219-14	Jam Nut	4
45	321-5	Capscrew	1
46	218-452	Rectifier	1

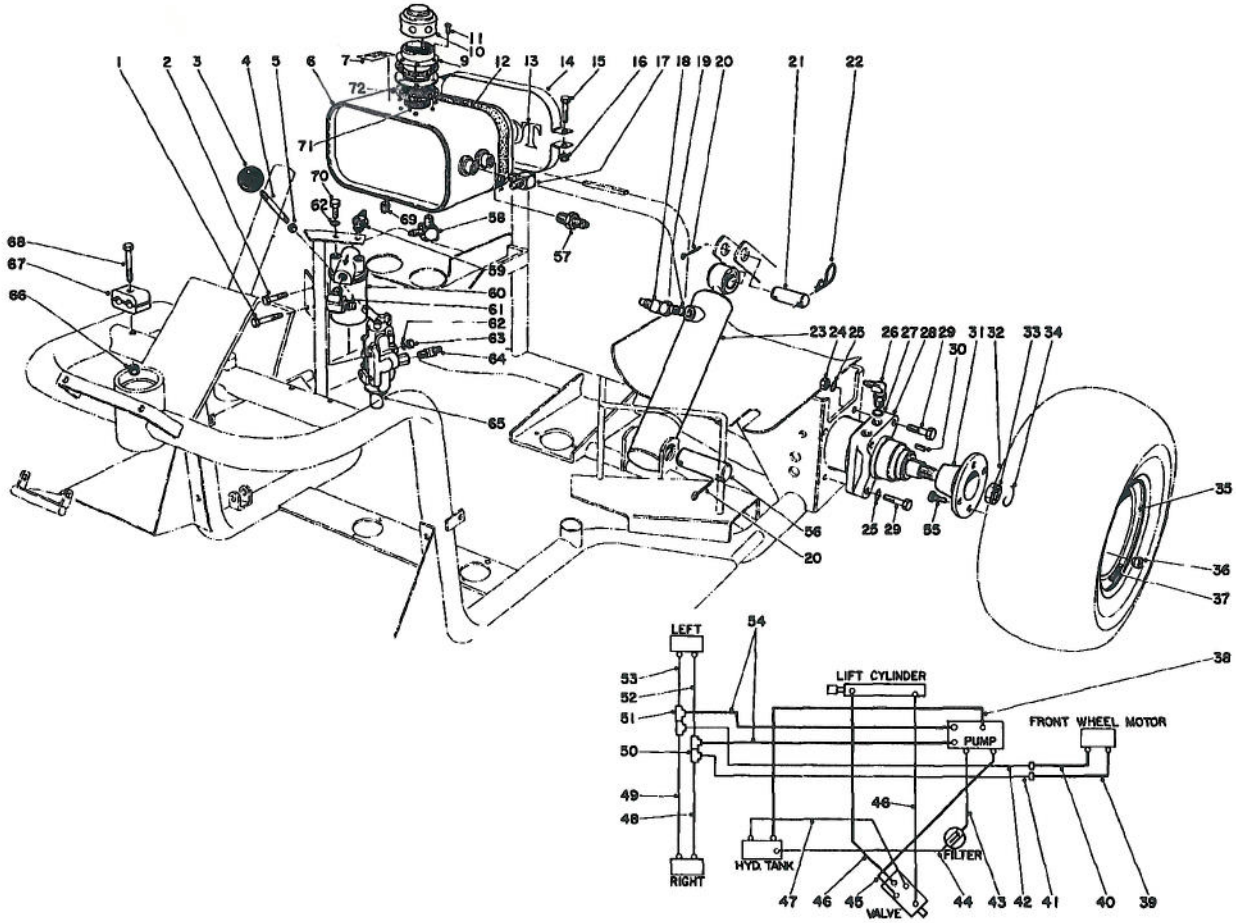


INSTRUMENT PANEL AND WIRING DIAGRAM (Continued)

Ref. No.	Part No.	Description	No. Used
47	19-2840	U-Joint	1
48	18-6370	Chain	1
49	2710-31	Chain Connecting	2
50	3296-4	Stop Nut	2
51	18-6380	Steering Adjustment Pin	2
52	18-6330	Steering Shaft	1
53	32149-2	Nut	2
54	32121-6	Roll Pin	1
55	17-4970	Throttle Control	1

Ref. No.	Part No.	Description	No. Used
56	32146-18	Locknut	2
57	3254-6	Lockwasher	1
58	3220-3	Jam Nut	1
59	18-6900	Decal Toro	1
60	3258-2	Screw	2
61	12-8140	Switch	1
62	32140-15	Self Tapping Screw	1
63	238-7	Steering Wheel Cap	1
*	7-3123	Cable Tie	4

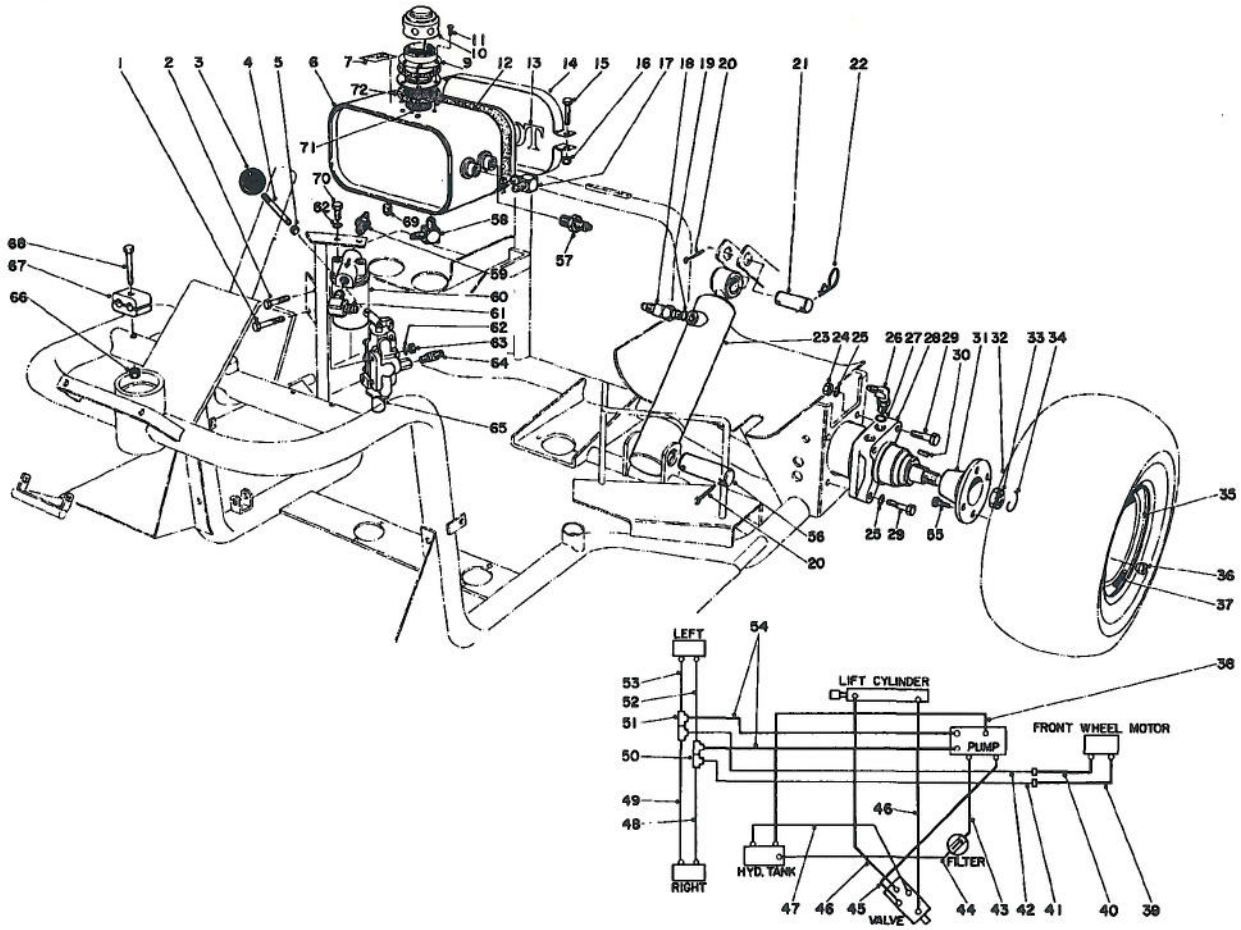
*Not illustrated



HYDRAULIC TANK AND SYSTEMS DIAGRAM

Ref. No.	Part No.	Description	No. Used
1	321-9	Capscrew	1
2	321-7	Capscrew	2
3	233-33	Knob	1
4	18-6530	Lever	1
5	3218-2	Nut Jam	1
6	17-2480	Tank Hydraulic	1
7	18-6890	Decal Oil	1
9	353-501	Flange Adapter	1
10	353-498	Breather Cap	1
11	32104-111	Screw	6
12	18-6850	Felt Strip	1
13	18-6900	Decal Toro	1
14	18-6860	Strap Tank	1
15	323-11	Capscrew	1
16	32152-2	Nut	1
17	353-428	Fitting 90°	1
18	353-431	Fitting (Incl. Ref. #19)	2
19	237-78	O-Ring	2
20	3272-23	Cotter Pin	3
21	18-7310	Pin Rake	1
22	3290-256	Hair Pin Cotter	1
23	10-7910	Hydraulic Cylinder	1

Ref. No.	Part No.	Description	No. Used
24	3217-9	Nut	4
25	3253-7	Lockwasher	8
26	353-426	Fitting (Incl. Ref. #27)	4
27	237-80	O-Ring	4
28	10-8010	Hydraulic Motor	2
29	325-10	Capscrew	8
30	11-5790	Key	2
31	17-4710	Wheel Hub	2
32	231-79	Tire	2
33	11-5800	Nut	2
34	18-7970	Wire	2
35	242-53	Rim	2
36	242-50	Wheel Nut	8
37	232-35	Valve Stem	2
38	18-6810	Hose (Pump to Reservoir)	1
39	18-6780	Hose (Front Motor)	1
40	18-6770	Hose (Front Motor)	1
41	18-6750	Tube - Rear (Front Motor)	1
42	18-6740	Tube - Front (Front Motor)	1
43	18-6800	Hose (Filter to Pump)	1
44	18-6690	Tube (Filter to Tank)	1
45	18-6820	Hose (Pump to Valve)	1
46	18-6830	Hose (Valve to Cylinder)	2

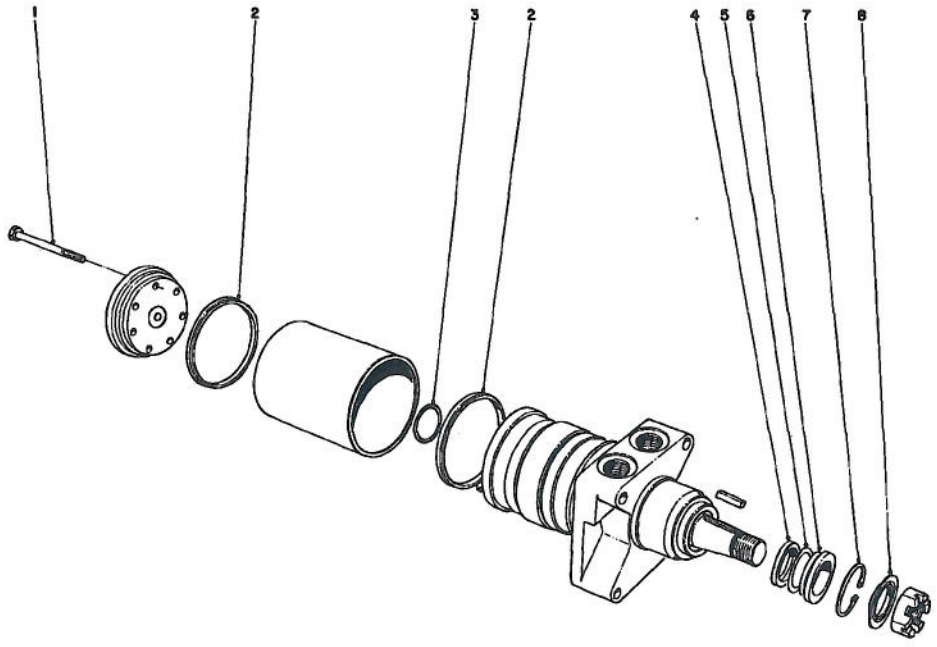


HYDRAULIC TANK AND SYSTEMS DIAGRAM (Continued)

Ref. No.	Part No.	Description	No. Used
47	18-6680	Tube (Valve to Tank)	1
48	18-6700	Tube Front (R.H. Rear Motor)	1
49	18-6730	Tube - Rear (R.H. Rear Motor)	1
50	353-424	"T" Fitting	2
51	353-425	"T" Fitting	2
52	18-6710	Tube-Front (L.H. Rear Motor)	1
53	18-6720	Tube - Rear (L.H. Rear Motor)	1
54	18-6790	Hose (Pump to "T") w/O-Rings	2
55	10-6830	Wheel Stud	8
56	18-7160	Pin	1
57	353-460	Straight Fitting	1
58	353-423	90° Fitting	1
59	353-437	Straight Fitting	1
60	20-0700	Oil Filter Element & Housing	1
61	353-423	Fitting 90°	1

Ref. No.	Part No.	Description	No. Used
62	3253-3	Lockwasher	5
63	3217-5	Nut	3
64	353-429	Valve Fitting	4
65	19-2060	Valve	1
66	3296-42	Stop Nut	1
67	18-6760	Block	1
68	321-23	Capscrew	1
69	281-1	Pipe Plug	1
70	321-4	Capscrew	2
71	19-5970	Screen Assembly	1
72	353-500	Gasket	2
*	353-435	Oil Filter Replacement Element	1
*	17-4720	Wheel Assembly Complete	2
*	353-463	Valve Seal Kit	1
*	353-404	Filler Tube Assembly	1

*Not illustrated

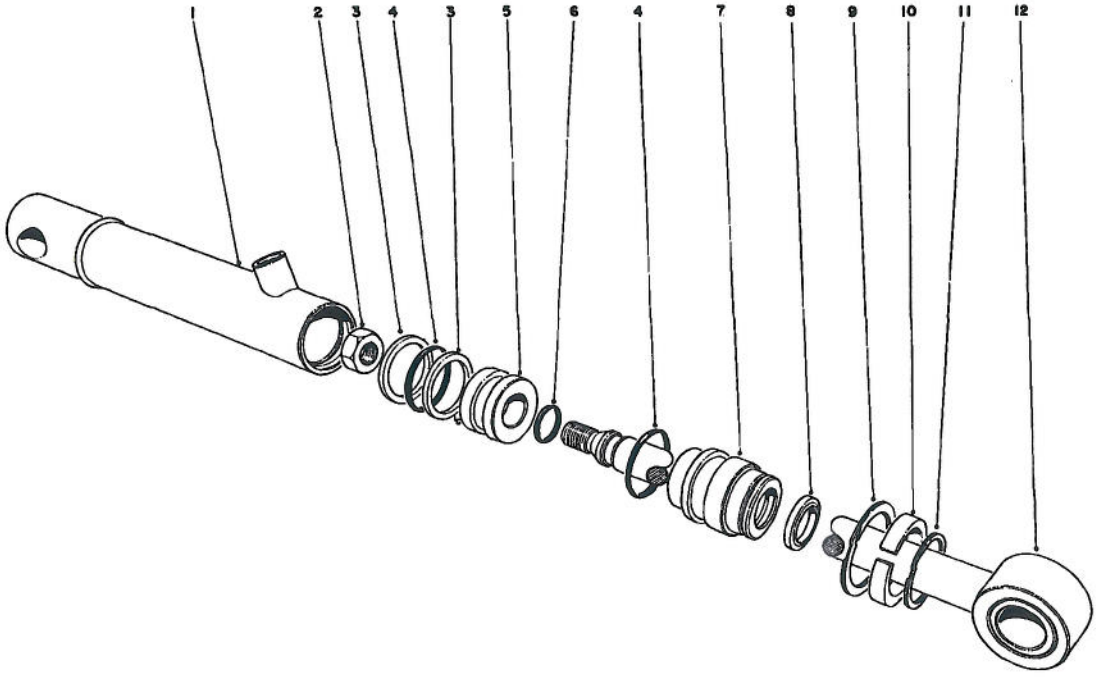


HYDRAULIC DRIVE MOTOR (REAR)

Ref. No.	Part No.	Description	No. Used
1	3211-32	Capscrew	6
2	†	Seal Ring	2
3	†	Commutator Seal	1
4	†	Seal	1

Ref. No.	Part No.	Description	No. Used
5	†	Shim	1
6	†	Spacer	1
7	†	Retaining Ring	1
8	†	Dirt Seal	1

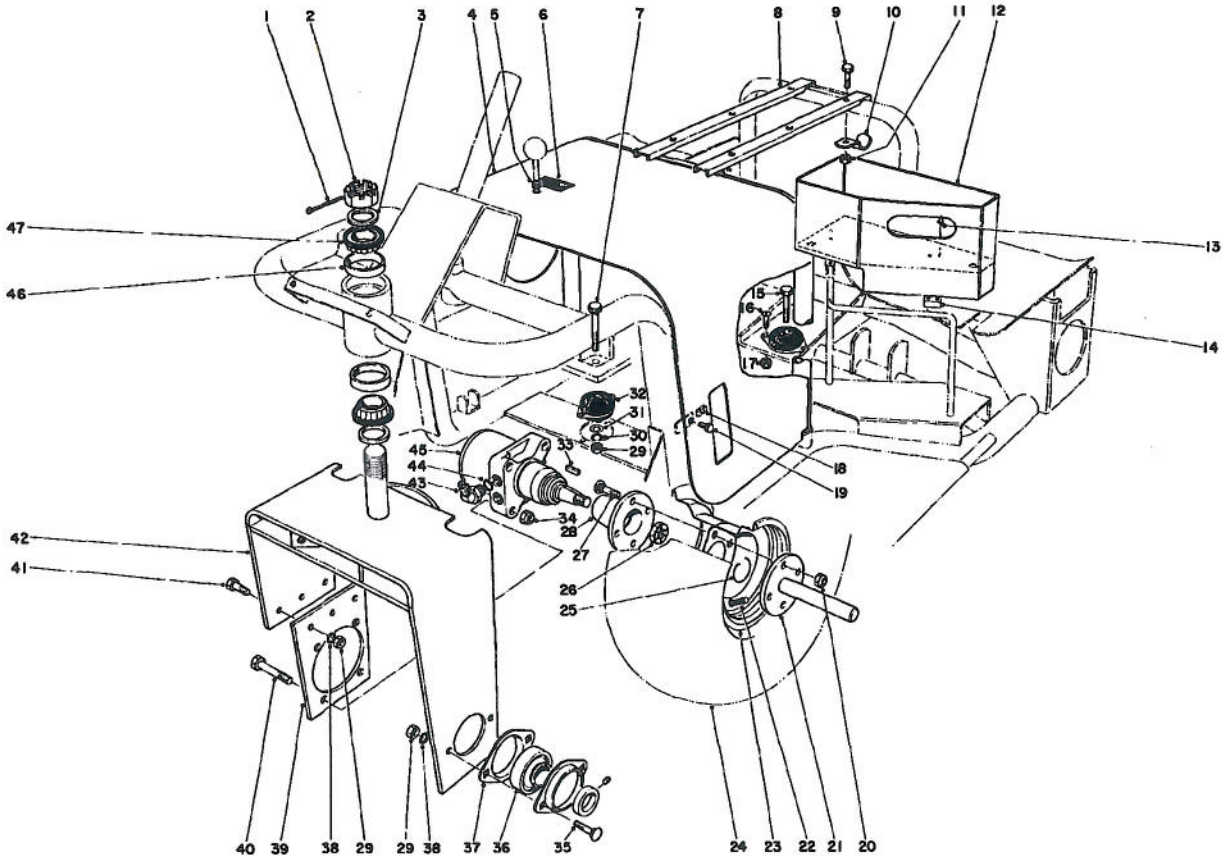
†Item only available in Hydraulic Motor Seal Repair Kit 353-461



HYDRAULIC CYLINDER

Ref. No.	Part No.	Description	No. Used
1	353-451	Tube Assembly	1
2	†	Jam Nut	1
3	†	Back Up Washer	2
4	†	O-Ring Piston	2
5	353-457	Piston	1
6	†	Seal Rod	1
7	353-470	Head Assy. w/Internal Seal	1
8	†	Rod Wiper	1
9	†	Lock Ring Head	1
10	353-454	Spacer	1
11	353-455	Lock Ring Spacer	1
12	353-456	Rod Assembly	1

†Items only available in Seal Repair Kit 353-439

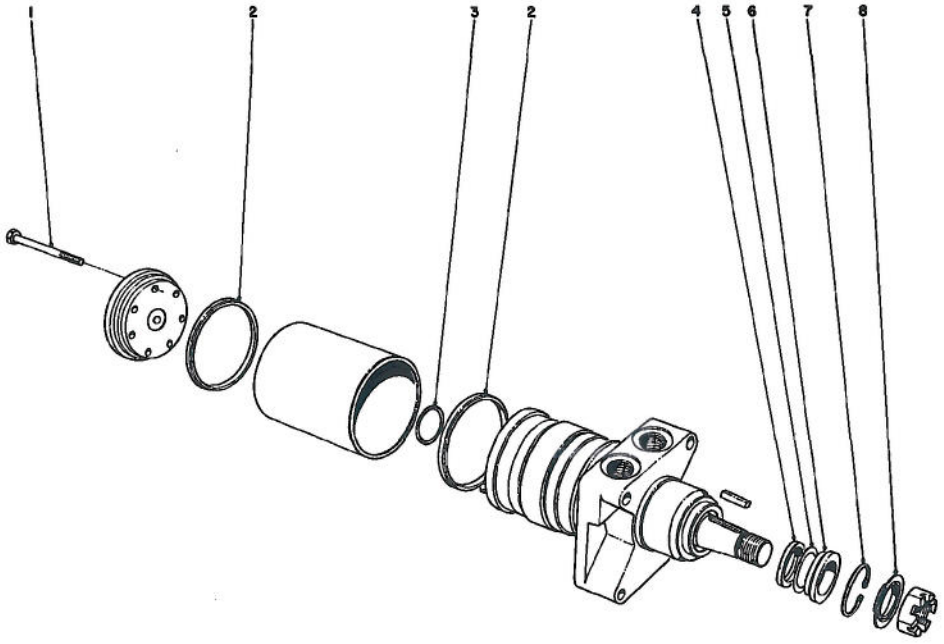


FRONT STEERING FORK AND MOTOR ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3272-37	Cotter Pin	1
2	32136-9	Hex Slotted Nut	1
3	18-6320	Washer Steering	2
4	18-6930	Front Seat Support	1
5	237-84	Grommet	1
6	18-7980	Decal	1
7	323-12	Capscrew	2
8	18-6920	Channel Seat	2
9	322-3	Capscrew	2
10	10-9240	Seat Clamp	2
11	32146-5	Stop Nut	2
12	18-7080	Litter Basket	1
13	3290-344	Pop Rivet	4
14	2412-43	Clip	2
15	323-10	Capscrew	1
16	3251-3	Screw, Round Head	6
17	3296-2	Stop Nut	6
18	3290-199	Tinnerman Clip	2
19	321-2	Sems Screw	2
20	3296-19	Nut	4
21	18-6290	Axle Shaft	1
22	232-35	Valve Stem	1
23	242-53	Rim	1
24	231-79	Tire	1

Ref. No.	Part No.	Description	No. Used
25	18-7970	Wire	1
26	11-5800	Slotted Nut	1
27	17-2520	Drive Type Stud	4
28	18-8090	Wheel Hub	1
29	3217-7	Nut	8
30	3253-21	Lockwasher	3
31	3256-24	Flatwasher	3
32	18-8000	Mount Rubber	3
33	11-5790	Key	1
34	32146-13	Stop Nut	4
35	3231-2	Carriage Bolt	2
36	251-165	Bearing with Collar	1
37	251-166	Flange	2
38	3253-21	Lockwasher	5
39	18-6270	Wheel Motor Mount, Fork	1
40	325-10	Capscrew	4
41	323-6	Capscrew	3
42	18-6210	Fork	1
43	353-427	45° Adjust. Fitting (Incl. Ref. 44)	2
44	237-80	O-Ring	2
45	17-2450	Hydraulic Motor	1
46	254-70	Bearing Cone and Seal	2
47	254-61	Bearing Cup	2
*	17-4720	Wheel Assembly Complete	1

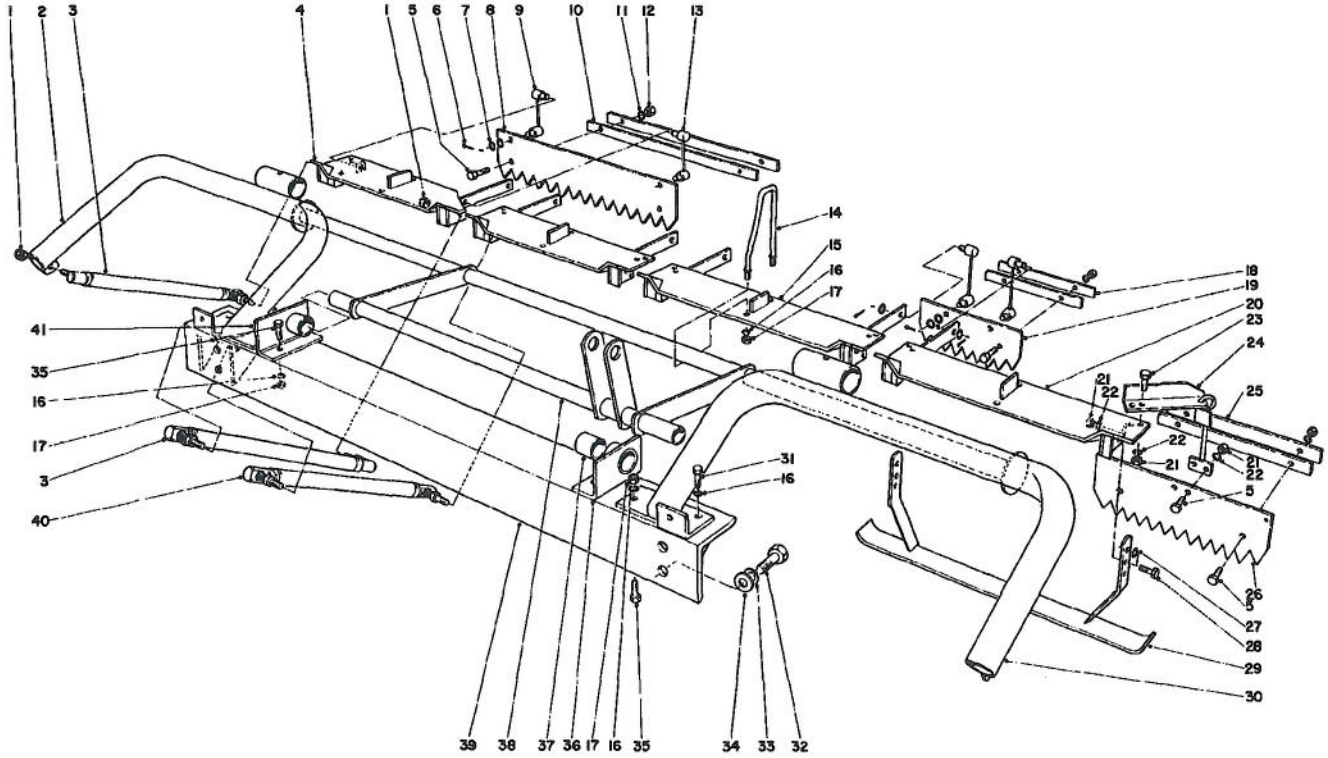
*Not Illustrated



HYDRAULIC DRIVE MOTOR (FRONT)

Ref. No.	Part No.	Description	No. Used
1	3211-33	Capscrew	6
2	†	Seal Ring	2
3	†	Commutator Seal	1
4	†	Seal	1
5	†	Shim	1
6	†	Spacer	1
7	†	Retaining Ring	1
8	†	Dirt Seal	1

†Item only available in Hydraulic Motor Seal Repair Kit 353-461



RAKE ASSEMBLY

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	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	18-7600	Drag Cable Assembly R. H.	7
10	18-7570	Weight Drag	8
11	3253-4	Lockwasher	18
12	3217-6	Nut	18
13	18-7610	Drag Cable Assembly L. H.	7
14	18-7520	Hoop Lift	4
15	18-7380	Upper Rake (Center)	2
16	3253-21	Lockwasher	14
17	3217-7	Nut	12
18	18-7590	Weight Drag (Secondary)	6
19	18-7580	Plate Drag (Secondary)	3
20	18-7420	Upper Rake L. H.	1
21	3217-5	Nut	24
22	3253-3	Lockwasher	24

Ref. No.	Part No.	Description	No. Used
23	321-4	Capscrew	8
24	18-7660	Swivel Bracket	2
25	18-7650	Weight	4
26	18-7640	Swivel Drag	2
27	3256-22	Washer	8
28	321-31	Capscrew	16
29	18-7460	Rake Bar	4
30	18-7360	Wheel Hoop L. H.	1
31	323-3	Capscrew	2
32	325-6	Capscrew	4
33	3253-7	Lockwasher	4
34	3256-26	Flatwasher	4
35	323-6	Capscrew	4
36	18-7220	Pivot Bracket L. H. (Incl. Ref. 37)	1
37	256-234	Bushing	2
38	18-7170	Lift Bar	1
39	18-7280	Mount Rake	1
40	18-7530	Ball Joint Assembly (Center)	4
41	18-7250	Pivot Bracket R. H. (Incl. Ref. 37)	1