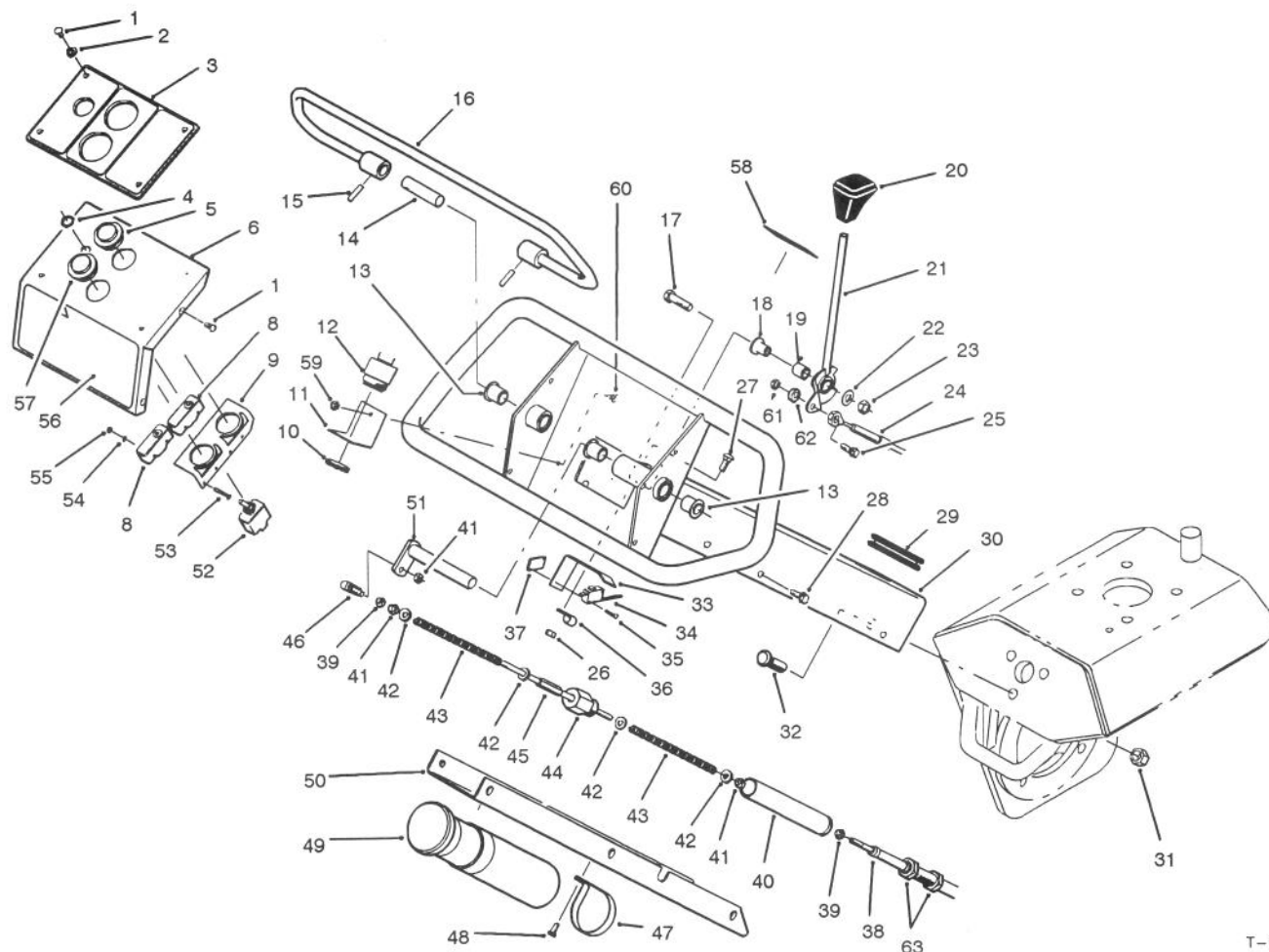


TORO®

MODEL NO. 09800-20451 & UP

PARTS CATALOG

HYDROJECT™ 3000 AERATOR



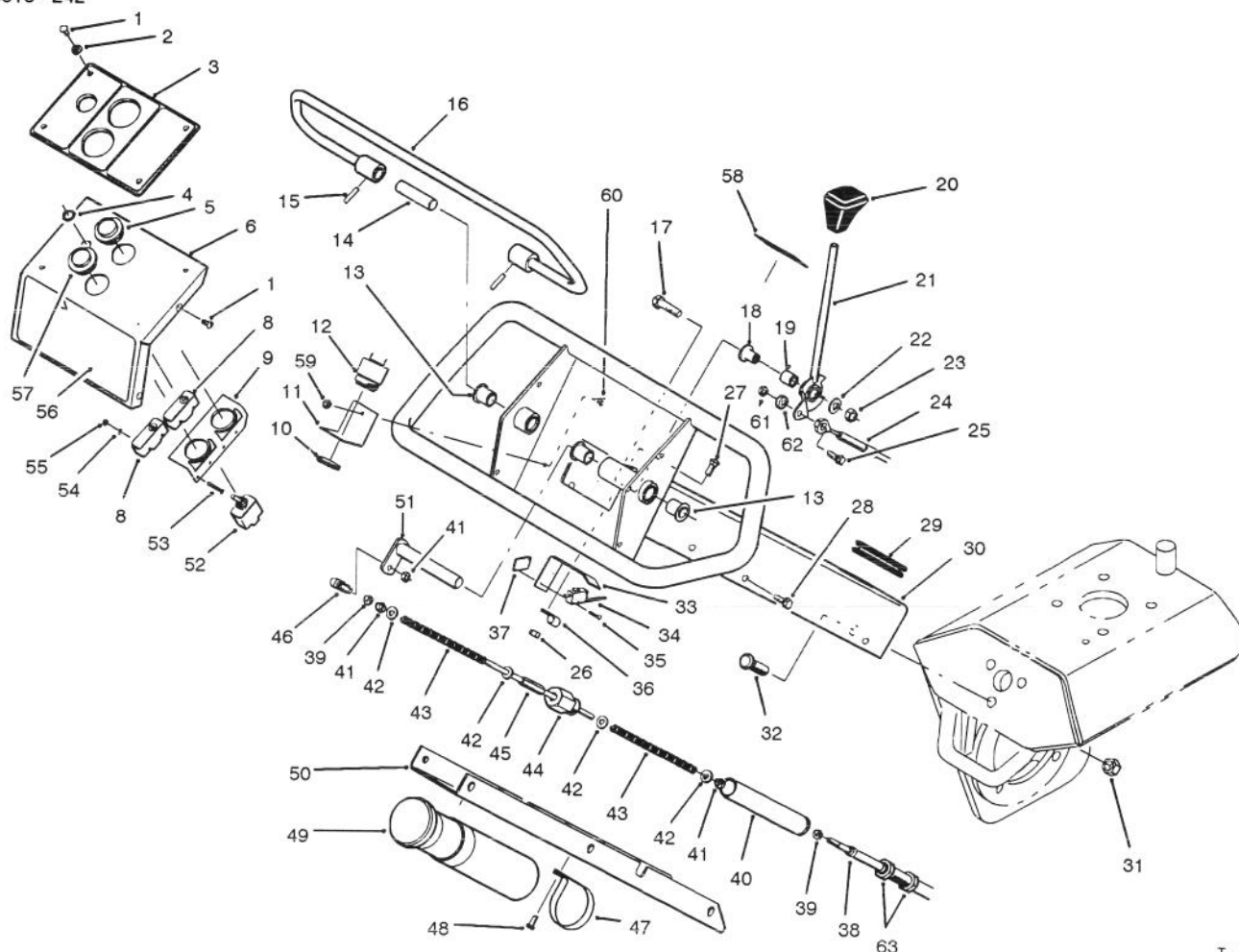
T-1189

HANDLE ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	32104-60	Screw - Hex. Washer Hd.	8	16	80-7110	Handle - Traction Control	1
2	3256-14	Washer - Flat	4	17	323-29	Screw - Cap Hex. Hd.	1
‡3	80-9240	Panel - Control (English)	1	18	80-7200	Spacer - Brake	1
4	218-498	Nut - Locking	1	19	256-206	Bushing - Sleeve	1
5	80-9290	Button - Switch (Green)	1	20	65-8970	Knob	1
6	14-5199	Cover - Control (Incl. Ref. #3 & 56)	1	21	80-6750	Lever - Brake	1
8	80-9280	Switch Assembly	2	22	3256-24	Washer - Flat	1
9	80-9270	Bracket - Switch	1	23	3296-59	Nut - Lock	1
10		Retainer - Alarm	1	24	80-9740	Cable - Brake	1
11	80-7790	Bracket - Alarm	1	25	11-9030	Screw - Shoulder	1
12	80-9330	Audio Alarm Assembly (Incl. Ref. #10)	1	26	3296-42	Nut - Lock	1
13	256-90	Bushing - Sleeve	3	27	3229-1	Bolt - Carriage	1
14	80-7190	Shaft - Pivot	1	28	32104-95	Screw - Hex. Washer Hd.	6
15	32121-79	Pin - Roll	2	29	240-12	Grommet	1
				30	80-6800	Handle	1
				31	3296-19	Nut - Lock	3

‡For different language versions of this part, see International Decal Cross Reference.

TPS



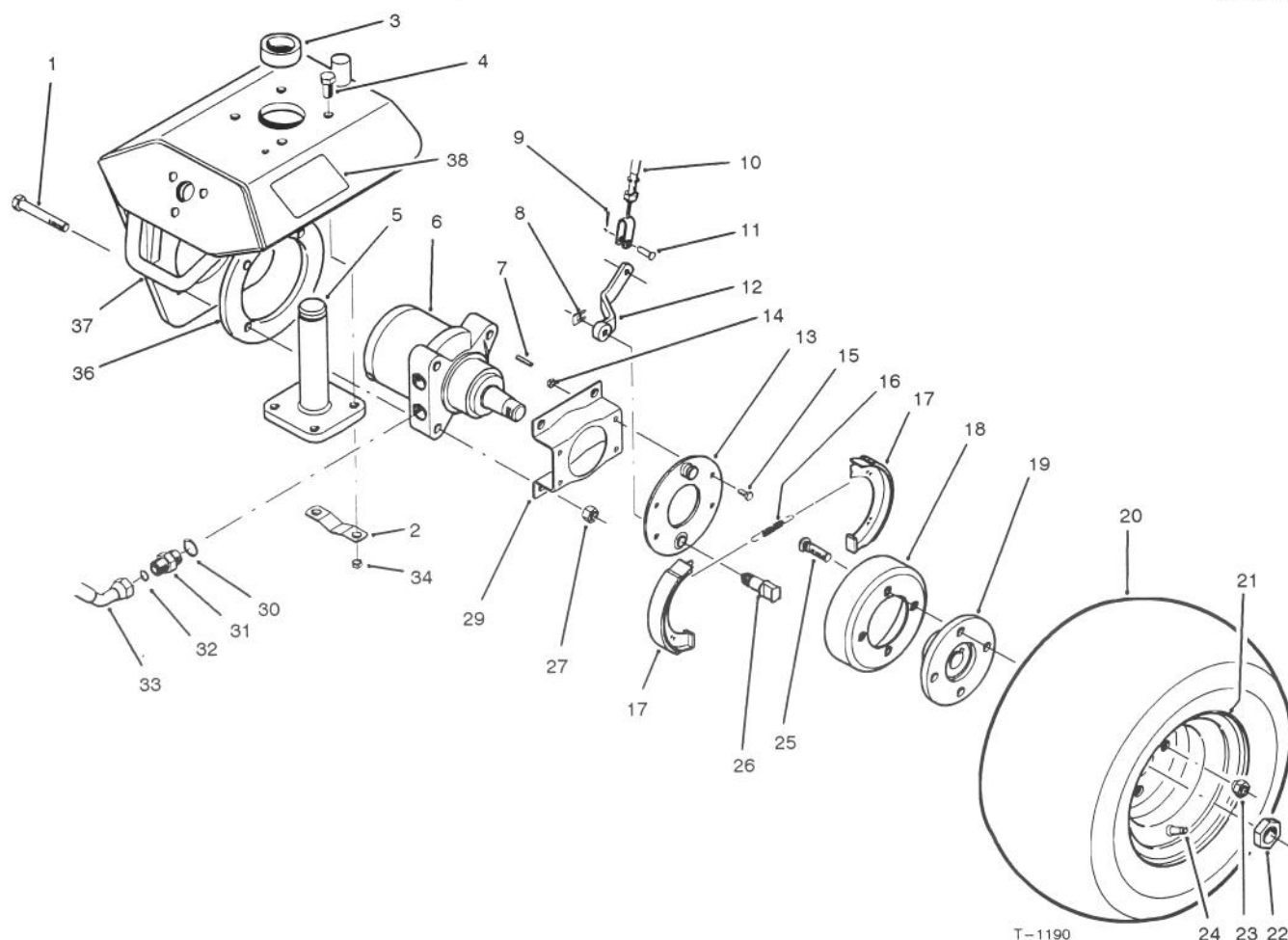
T-1189

HANDLE ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
32	10-6830	Stud - Drive	3
33	80-6900	Bracket - Switch	1
34	40-8200	Switch - Micro	1
35	3290-313	Screw - Pan Hd.	2
36	2412-94	Clamp - R	1
37	3290-354	Plate - Nut	1
38	80-7220	Stroke Control Cable Assy. (Incl. Ref. #63)	1
39	3220-1	Nut - Jam	2
40	80-7080	Housing	1
41	3296-3	Nut - Lock	3
42	3256-2	Washer - Flat	4
43	80-7150	Spring - Compression	2
44	80-7230	Hub - Override	1
45	80-7060	Shaft - Override	1
46	2411-34	Joint - Ball	1
47	2412-120	Clamp - R	2
48	32104-76	Screw - Hex. Slotted Hd.	2

Ref. No.	Part No.	Description	No. Used
49	74-0720	Tube - Manual	1
50	80-7210	Cover - Lower	1
51	80-7160	Arm - Traction	1
52	71-4170	Switch - Toggle (Incl. Ref. #4)	1
53	3250-35	Screw	4
54	3254-9	Washer - I.T.L.W.	4
55	3217-16	Nut - Hex.	4
‡56	80-8020	Decal - Instruction (English)	1
57	80-9300	Button - Push (Red)	1
‡58	80-8070	Decal - Parking Brake (English)	1
59	3296-2	Nut - Lock	1
60	32105-2	Screw - Hex. Flange Hd.	1
61	3296-56	Nut - Lock	1
62	80-9540	Spacer	1
63	3220-6	Nut - Jam	2

‡For different language versions of this part, see International Decal Cross Reference.

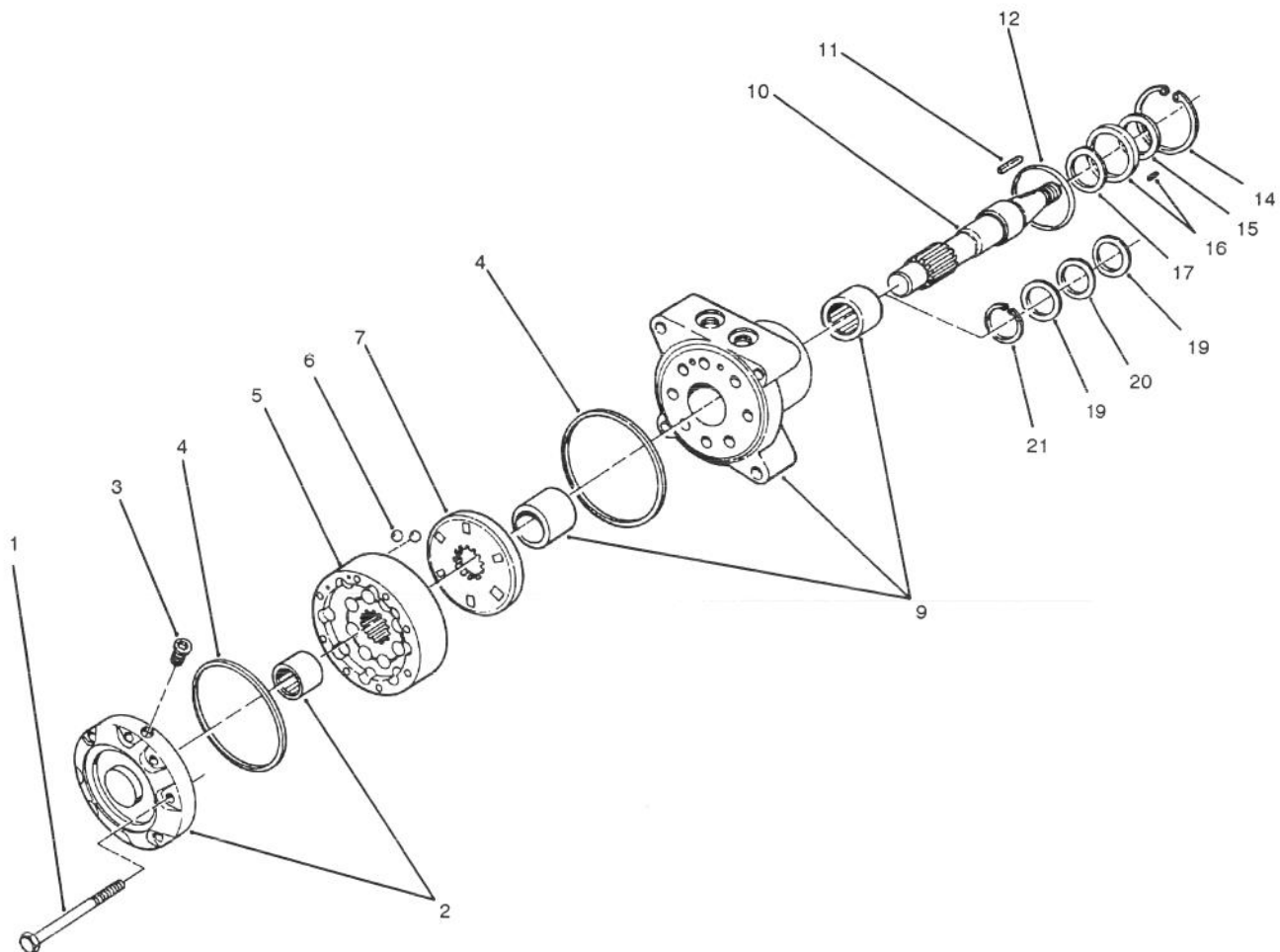


FRONT WHEEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	325-13	Screw - Cap Hex. Hd.	4
2	80-9730	Guide - Cable	1
3	80-8670	Spacer - Steering	1
4	325-6	Screw - Cap Hex. Hd.	4
5	80-9790	Shaft - Steering Pivot	1
6	66-5293	Motor - Hydraulic (Incl. Ref. #7)	1
7	65-4640	Key - Square	1
8	70-9850	Clip - Retaining	1
9	3272-10	Pin - Cotter	1
10	80-9740	Cable - Brake	1
11	283-62	Pin - Clevis	1
12	80-7400	Lever - Brake	1
13	70-9870	Plate - Brake	1
14	3296-42	Nut - Lock	4
15	321-4	Screw - Cap Hex. Hd.	4
16	70-9880	Spring - Brake	2
17	70-9840	Shoe - Brake	2
18	10-6820	Hub & Drum Assembly (Incl. Ref. #19 & 25)	1
19	10-6870	Hub - Wheel	1
20	28-3680	Tire	1
21	217-60	Rim - Wheel	1
22	26-3790	Nut - Spindle	1
23	242-50	Nut - Lug	4
24	232-27	Stem - Valve	1
25	10-6830	Stud - Drive	4
26	70-9860	Pivot - Brake	1
27	3296-23	Nut - Lock	4
29	84-2000	Bracket - Brake Plate	1
30	237-80	Seal - O-Ring	2
31	340-6	Fitting - Hydraulic St. (Incl. Ref. #30 & 32)	2
32	237-30	Seal - O-Ring	2
33	80-7370	Hose - Hydraulic	2
34	3296-45	Nut - Lock	2
36	71-0820	Mount - Motor	1
37	14-5179	Arm - Steering (Incl. Ref. #38)	1
‡38	72-4080	Decal - Danger (English)	1
*	71-1500	Brake Assembly (Incl. Ref. #8, 13, 16, 17 & 26)	1

*Not Illustrated

‡For different language versions of this part, see International Decal Cross Reference.



T-0274

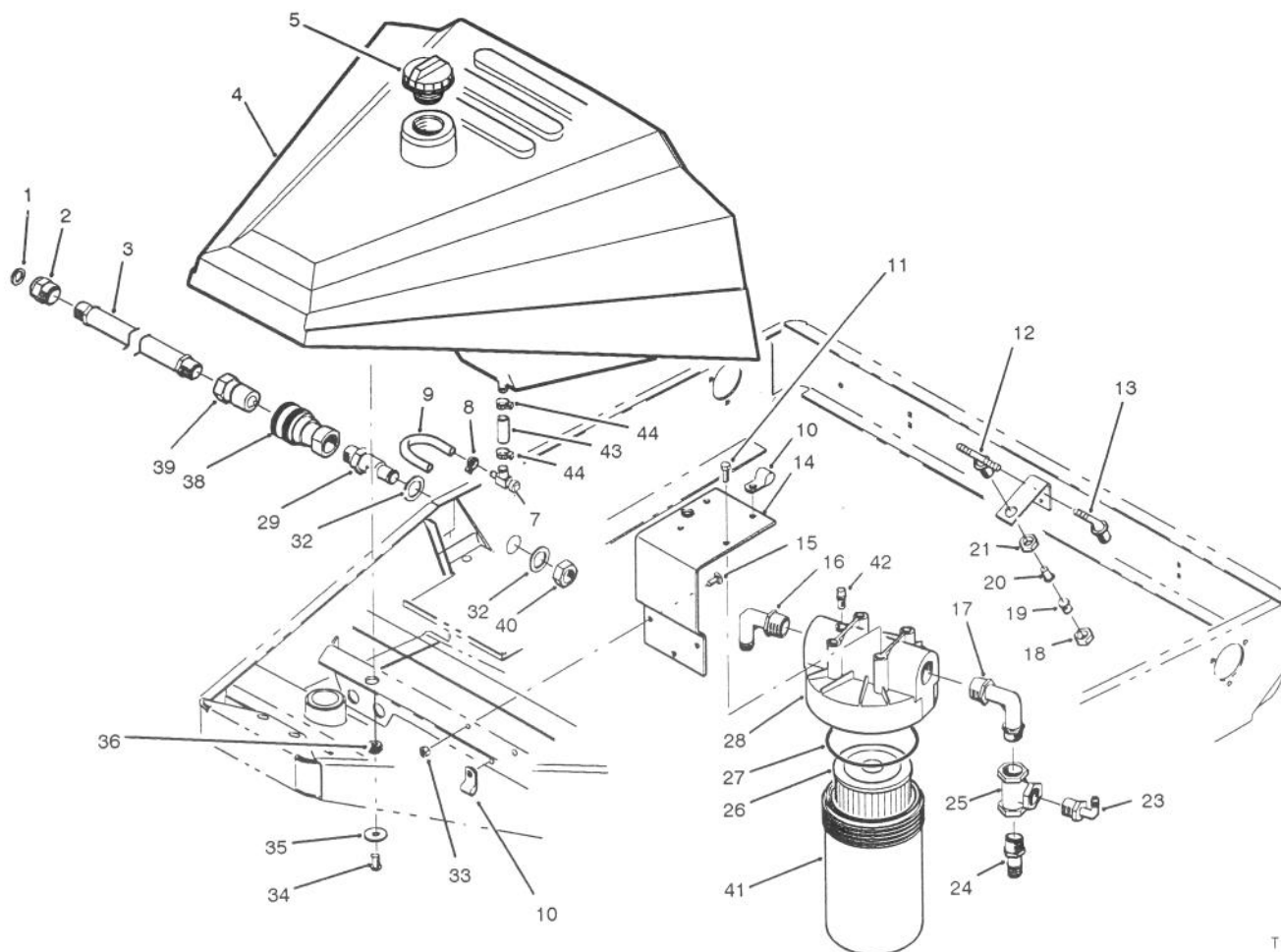
HYDRAULIC DRIVE MOTOR ASSEMBLY NO. 66-5293

Ref. No.	Part No.	Description	No. Used
1	80-5480	Screw - Cap Hex. Hd.	8
2	80-5470	Cover & Bearing Assembly	1
3	65-4560	Plug - Hex. Hollow	1
4	65-4570	Seal - Square Ring	2
5	80-5490	IGR Assembly	1
6	65-4550	Valve - Check Ball	2
7	80-9840	Plate - Valve	1
9	80-5460	Body & Bearing Assembly	1
10	80-5500	Shaft	1
11	65-4640	Key - Square	1
12	65-4620	Seal - O-Ring	1

Ref. No.	Part No.	Description	No. Used
14	65-4500	Seal - Snap Ring	1
†15		Seal - Dust	1
†16		Retainer - Pin	1
†17		Seal - Lip	1
19	65-4600	Washer - Thrust	2
20	65-4610	Bearing - Thrust	1
21	70-8170	Ring - Snap	1
*	76-2350	Seal & Retainer Assembly (Incl. Ref. #15-17)	1
*	76-2360	Body Seal Kit (Incl. Ref. #4, 12 & 15-17)	1

*Not Illustrated

†Not available from Toro as a replacement part.



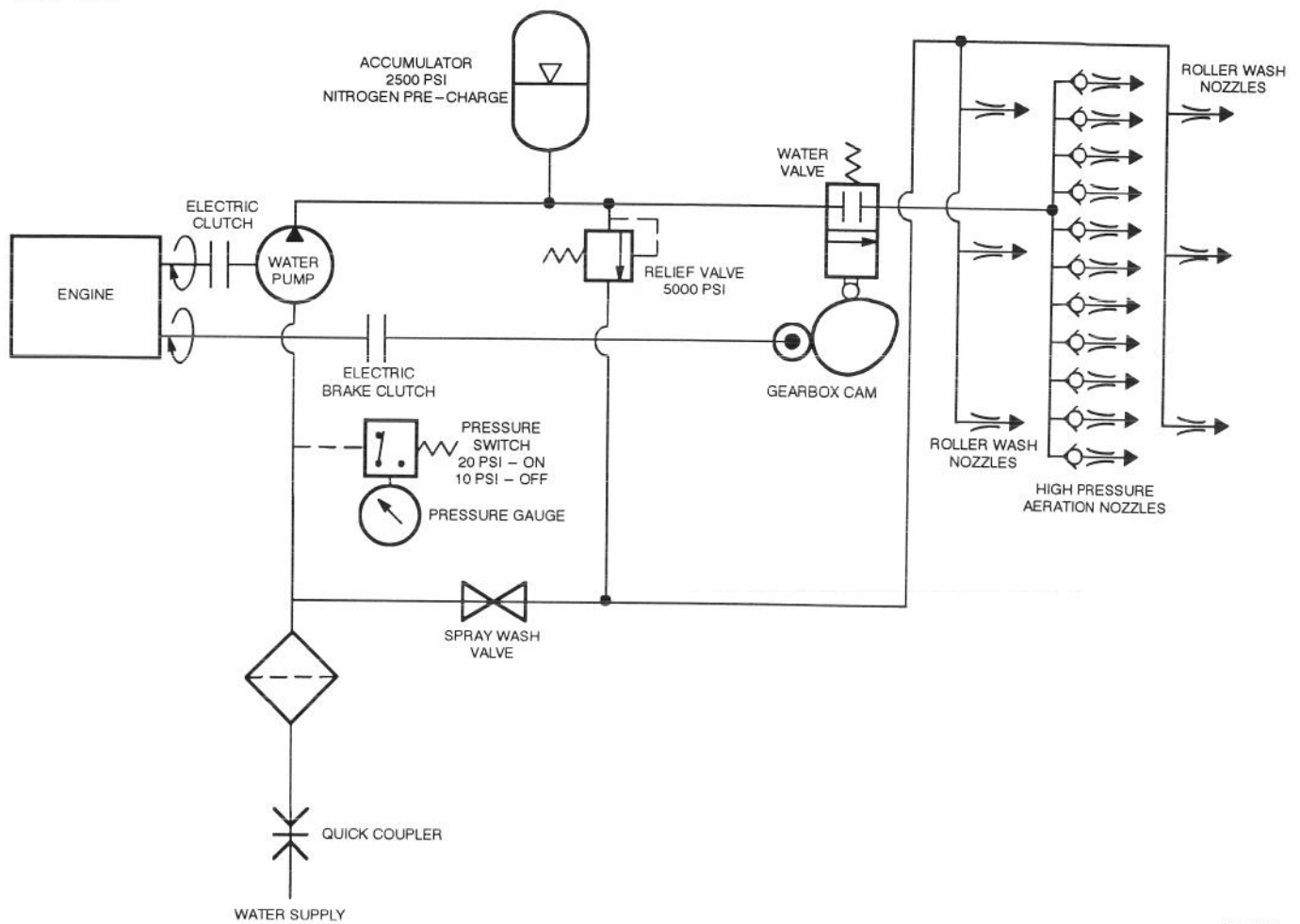
T-1196

FUEL TANK & WATER INLET ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3290-494	Washer - Rubber	1
2	354-109	Fitting - Adaptor	1
3	80-6740	Hose - Water	1
4	14-4189	Tank - Fuel	1
5	70-8631	Cap - Fuel	1
7	56-2520	Valve - Fuel Shut-Off	1
8	2412-108	Clamp - Hose	1
9	47-2961	Hose - Fuel	1
10	2412-41	Clamp - R	2
11	32144-41	Screw - Cap Hex. Hd.	4
12	355-1	Fitting - Tee (Incl. Ref. #21)	4
13	355-2	Fitting - 90° Elbow (Incl. Ref. #21)	2
14	80-8610	Bracket - Filter	1
15	3230-1	Bolt - Carriage	3
16	354-112	Fitting - 90° Elbow	1
17	354-114	Fitting - 90° Elbow	1
18	355-4	Cap	6
19	355-6	Nozzle	6
20	355-5	Strainer	6
21		Nut - Hex.	6
23	354-106	Fitting - 90° Elbow	1

Ref. No.	Part No.	Description	No. Used
24	354-98	Fitting - Straight	1
25	354-133	Fitting - Tee	1
26	80-8590	Element - Water Filter	1
27	237-176	Seal - O-Ring	1
28	80-9600	Head - Water Filter	1
29	80-9500	Adapter - Bulkhead	2
32	3256-42	Washer - Flat	4
33	3296-29	Nut - Lock	3
34	323-5	Screw - Cap Hex. Hd.	4
35	63-8410	Washer	4
36	240-11	Grommet	4
38	354-88	Coupler - Female	1
39	354-89	Coupler - Male	1
40	3296-49	Nut - Lock	2
41	80-8930	Sump - Water Filter	1
42	80-8940	Valve - Bleed	1
43	56-2230	Hose - Fuel	1
44	2412-36	Clamp - Hose	2
*	80-8600	Water Filter Assembly (Incl. Ref. #27-28 & 41-42)	1
*	80-9510	Wrench - Water Filter	1

*Not Illustrated

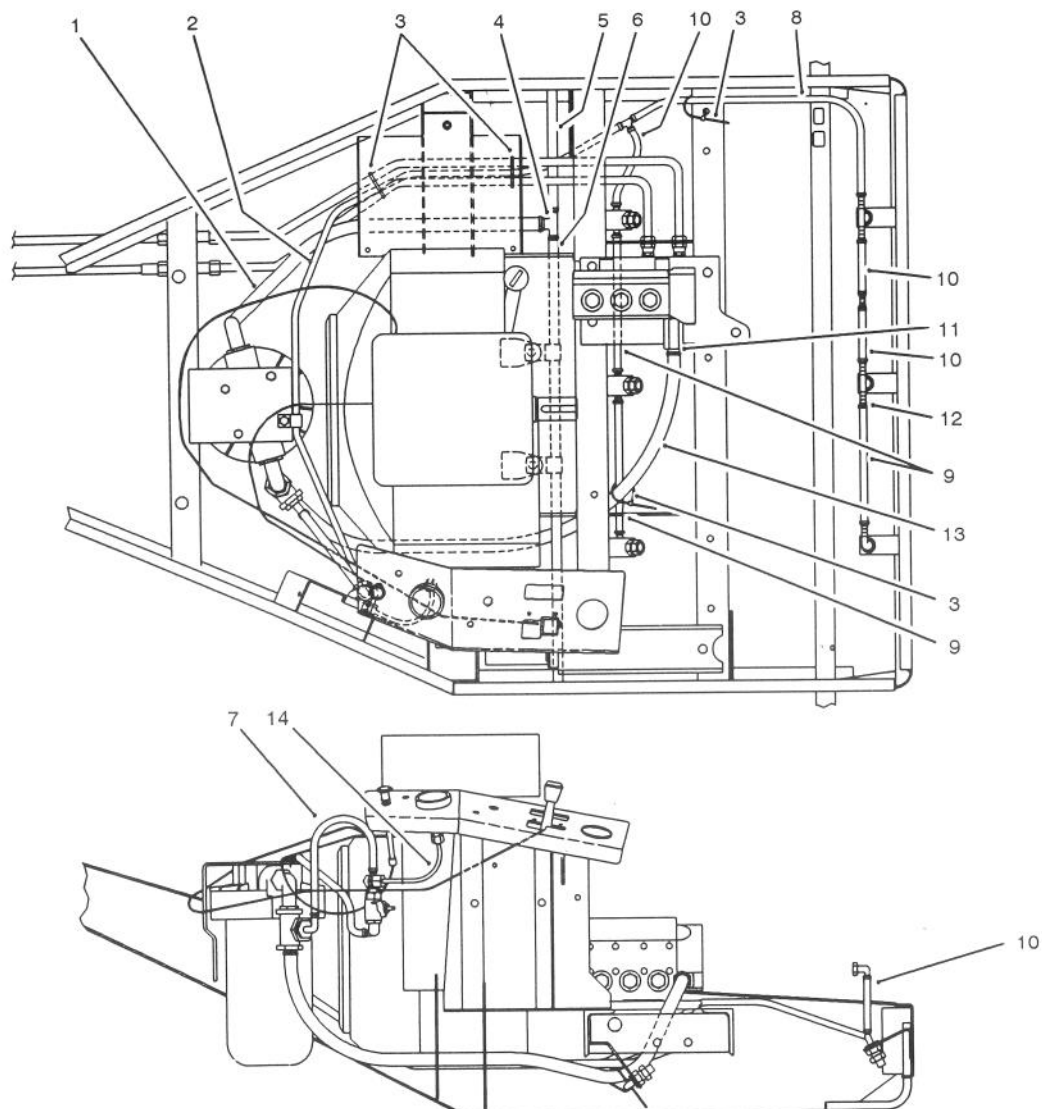


T-1272

WATER SYSTEM SCHEMATIC

Ref. No.	Part No.	Description	No. Used

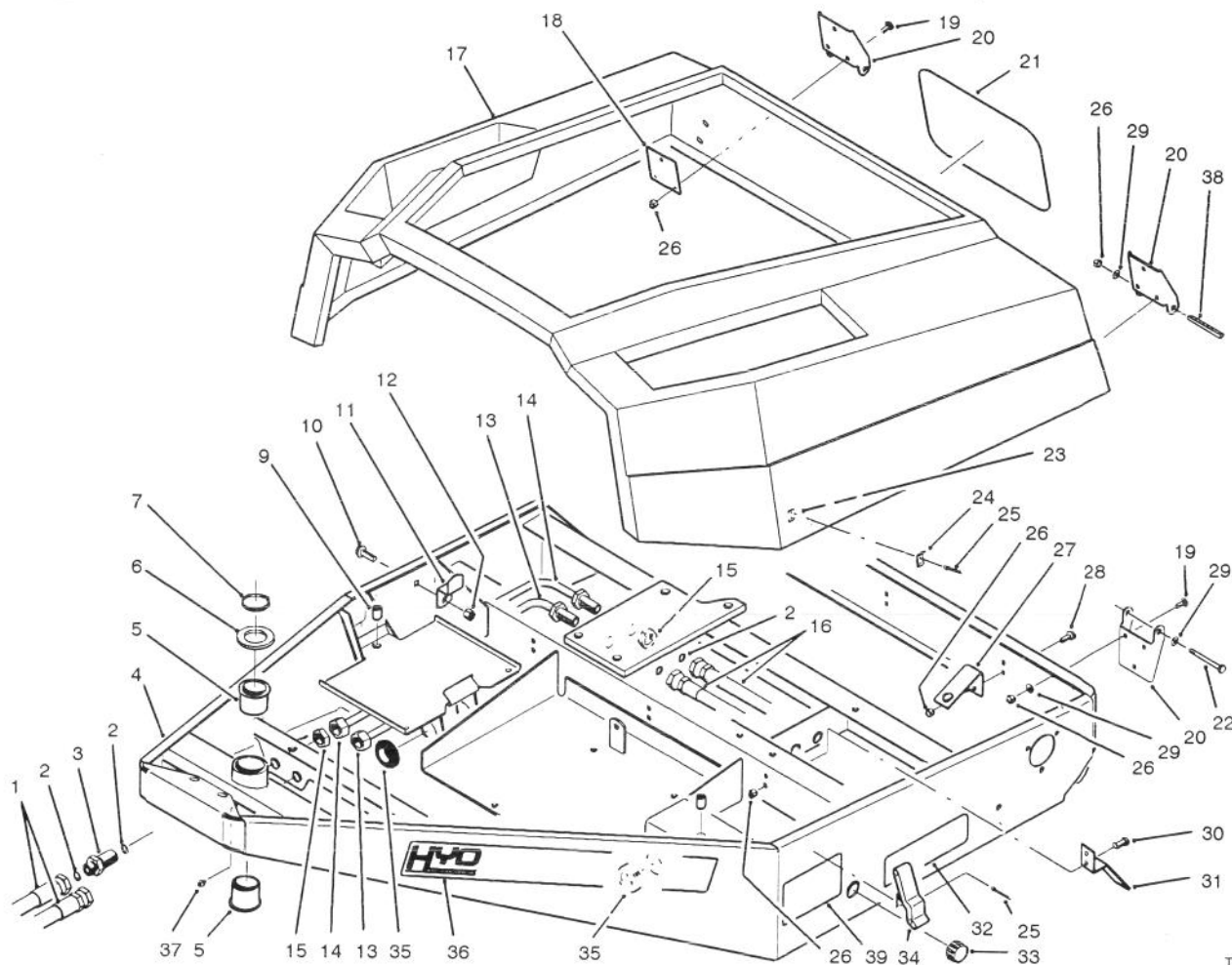
Ref. No.	Part No.	Description	No. Used



T-1275

WATER SYSTEM HOSE ROUTING DIAGRAM

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	80-6512	Hose - Water	1	9	80-7340	Hose - Water	3
2	80-7344	Hose - Water	1	10	80-7341	Hose - Water	4
3	3290-378	Tie - Cable	4	11	2412-129	Clamp - Hose 3/8"	8
4	354-96	Fitting - Tee	1	12	2412-108	Clamp - Hose 3/4"	20
5	80-6511	Hose - Water	1	13	80-6513	Hose - Water	1
6	80-6510	Hose - Water	1	14	80-6522	Hose - Water	1
7	80-7342	Hose - Water	1				
8	80-7346	Hose - Water	1				



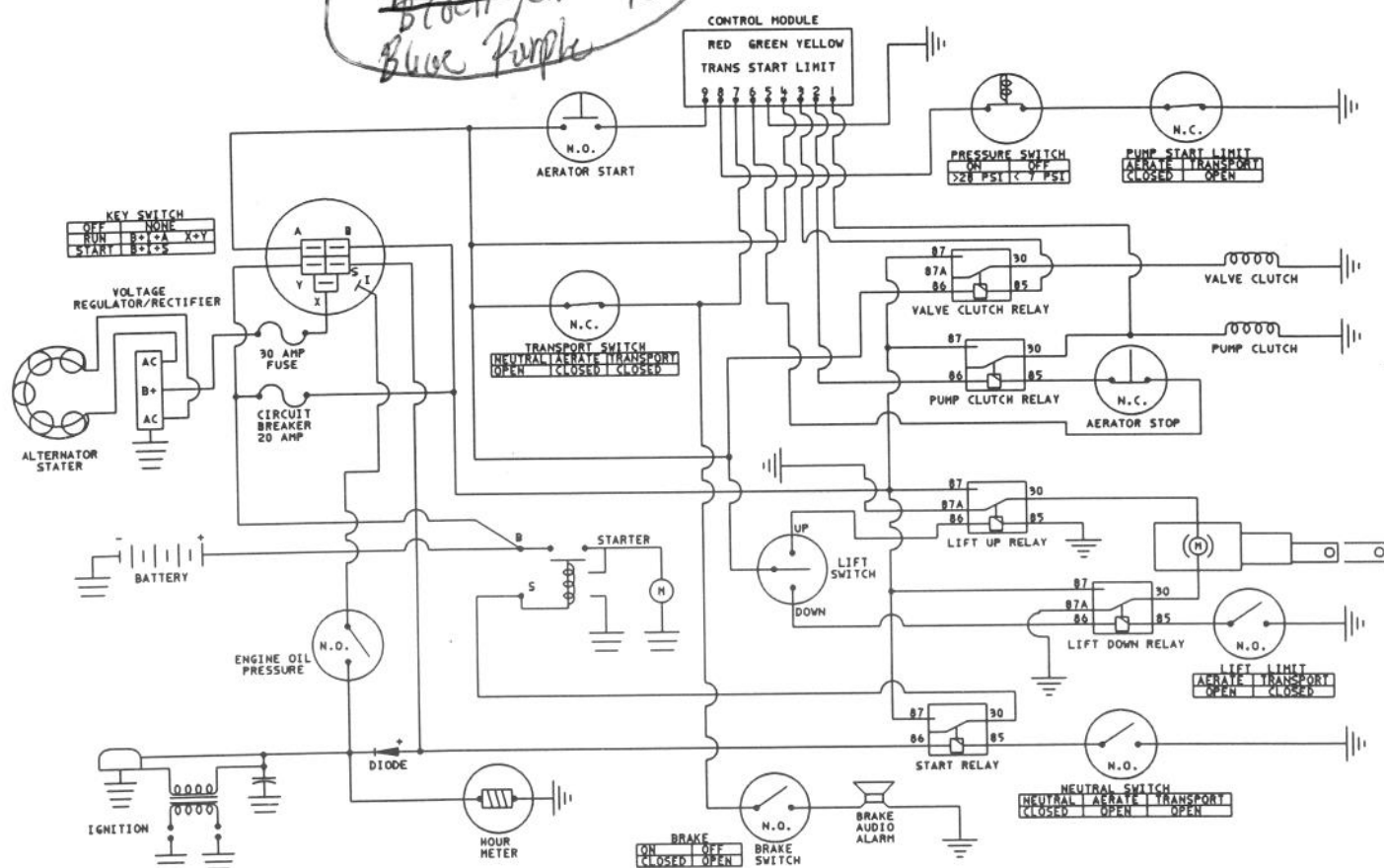
T-1197

FRAME & COVER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	80-7370	Hose - Hydraulic	2
2	237-30	Seal - O-Ring	6
3	340-161	Fitting - Hydraulic Bulkhead (Incl. Ref. #2)	2
4	14-5189	Frame (Incl. Ref. #32 & 36)	1
5	256-245	Bushing - Flange	2
6	61-1990	Washer - Steering	1
7	32151-44	Ring - Retaining	1
9	32148-9	Nut - Insert	3
10	3234-24	Screw - Hex. Flange Hd.	1
11	80-8580	Guard - Belt	1
12	3296-39	Nut - Lock	1
13	80-6640	Tube - Hydraulic (Incl. Ref. #2)	1
14	80-6630	Tube - Hydraulic (Incl. Ref. #2)	1
15	340-127	Nut - Bulkhead	4
16	80-7330	Hose - Hydraulic	2
17	80-5680	Hood	1
18	80-9090	Plate - Back-Up	2
19	3229-1	Bolt - Carriage	12

Ref. No.	Part No.	Description	No. Used
20	80-9080	Plate - Hinge	4
21	67-7310	Decal - TORO	1
22	321-28	Screw - Cap Hex. Hd.	2
23	80-9260	Plate - Back-Up	2
24	80-7780	Keeper - Latch	2
25	3269-25	Rivet - Pop	8
26	3296-42	Nut - Lock	26
27	80-9050	Bracket - Nozzle Rear	3
28	3234-4	Screw - Hex. Washer Hd.	6
29	3256-22	Washer - Flat	10
30	321-4	Screw - Cap Hex. Hd.	6
31	80-9060	Bracket - Nozzle Front	3
‡32	80-8090	Decal - Warning (English)	3
33	354-113	Cap - Pipe	1
34	80-6980	Latch Assembly (Incl. Ref. #24)	2
35	240-3	Grommet	4
36	80-8050	Decal - Hydroject 3000	2
37	302-5	Fitting - Grease	1
38	80-9310	Spacer - Hinge	2
‡39	86-8180	Decal - Filter (English)	2

‡For different language versions of this part, see International Decal Cross Reference.



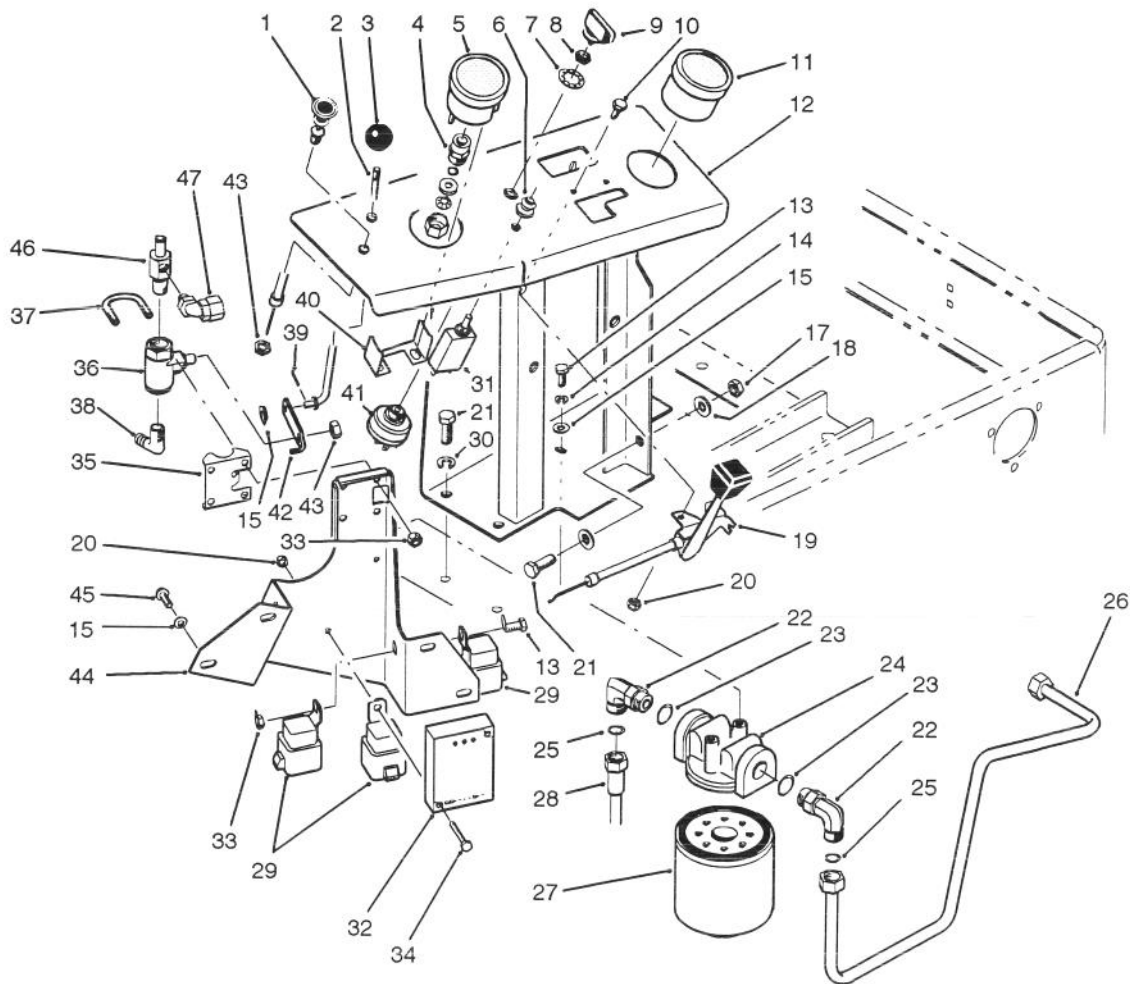
T-1237

ELECTRICAL SCHEMATIC

Ref. No.	Part No.	Description	No. Used
1	67-7130	Diode (Install Red Marking toward positive)	1
*	80-9630	Wire Harness - Main	1

Ref. No.	Part No.	Description	No. Used
*	80-9620	Wire Harness - Tiller	1
*	80-8790	Wire Harness - Control Panel	1
*	3290-378	Tie - Cable	5

*Not Illustrated

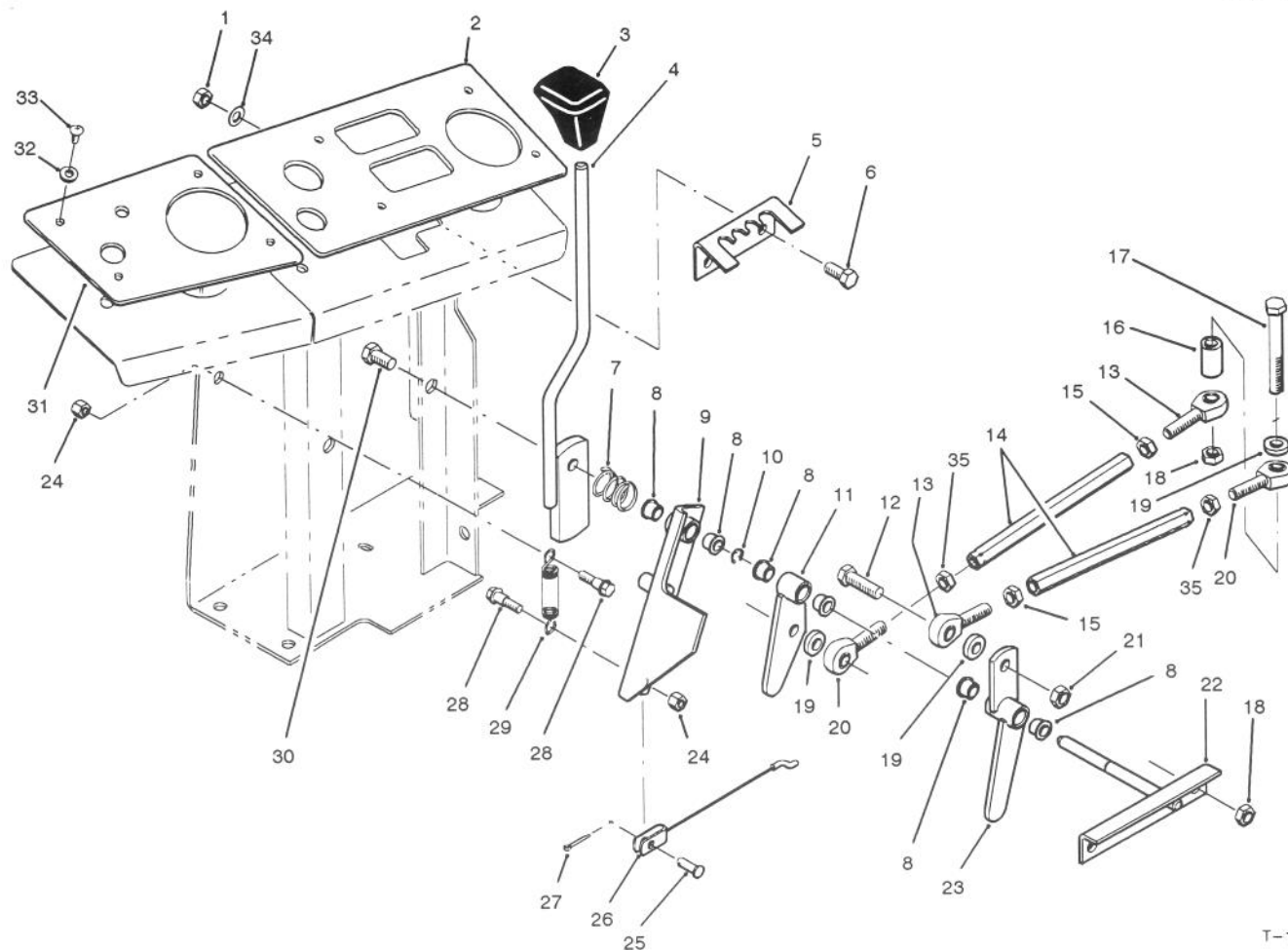


T-1203

CONTROL PANEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	80-7270	Choke Control Assembly (Incl. Ref. #43)	1
2	80-8280	Rod - Control	1
3	233-17	Knob	1
4	354-102	Hydraulic Fiting Assembly (Complete)	1
5	80-5640	Gauge - Pressure (Incl. Ref. #40)	1
6	80-7660	Seal - Button	1
7	218-447	Washer - Lock	1
8	218-446	Nut - Lock	1
9	63-8360	Key - Ignition	1
10	32105-2	Screw - Cap Hex. Hd.	2
11	66-2950	Hourmeter	1
12	80-7900	Panel - Control	1
13	321-3	Screw - Cap Hex. Hd.	4
14	3253-3	Washer - Lock	2
15	3256-22	Washer - Flat	7
17	3296-39	Nut - Lock	1
18	3256-24	Washer - Flat	2
19	80-8440	Control - Throttle	1
20	3296-2	Nut - Lock	4
21	323-6	Screw - Cap Hex. Hd.	3
22	340-98	Fitting - Hydraulic 90° (Incl. Ref. #23 & 25)	2
23	237-79	Seal - O-Ring	2
24	54-0100	Head - Oil Filter	1

Ref. No.	Part No.	Description	No. Used
25	237-30	Seal - O-Ring	2
26	80-9830	Tube - Hydraulic	1
27	67-8110	Element - Oil Filter	1
28	80-9830	Hose - Hydraulic	1
29	70-1480	Relay	5
30	3253-21	Washer - Lock	2
31	80-7310	Breaker - Circuit (Incl. Ref. #6)	1
32	80-8750	Control - Electric	1
33	3296-42	Nut - Lock	6
34	32105-5	Screw - Cap Hex. Hd.	2
35	80-8890	Mount - Valve	1
36	14-5259	Valve Assembly (Incl. Ref. #42 & 43)	1
37	80-7880	Bolt - U	2
38	354-93	Fitting - 90° Elbow	1
39	3272-2	Pin - Cotter	1
40		Clamp - Gauge	1
41	27-2360	Switch - Ignition (Incl. Ref. #7 & 8)	1
42	80-9580	Lever - Valve	1
43	3220-2	Nut - Lock	2
44	80-9550	Bracket - Relay	1
45	32104-95	Screw - Hex. Flange Hd.	4
46	80-9850	Fitting - Brass	1
47	354-101	Fitting - Elbow	1

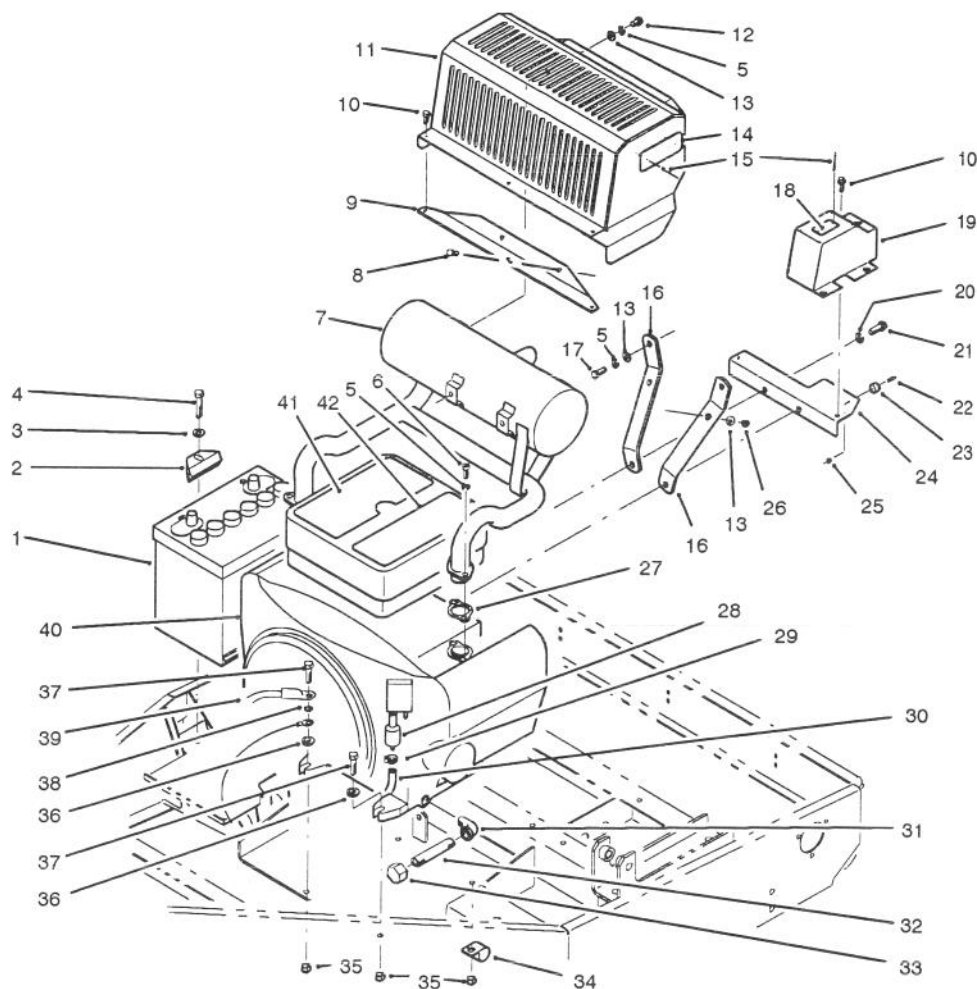


T-1193

CONTROL LINKAGE ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	3296-29	Nut - Lock	2	18	3296-39	Nut - Lock	3
‡2	80-8110	Panel - Engine Control (English)	1	19	80-7730	Spacer	3
3	65-8970	Knob	1	20	2411-50	Eye - Rod L.H. Thread	2
4	80-8400	Lever - Speed Control	1	21	3296-59	Nut - Lock	2
5	80-7670	Plate - Speed Control	1	22	80-7600	Pin - Pivot	1
6	322-3	Screw - Cap Hex. Hd.	2	23	80-7830	Arm - Pivot	1
7	80-7890	Spring - Compression	1	24	3296-56	Nut - Lock	2
8	256-116	Bushing - Flange	6	25	283-67	Pin - Clevis	1
9	80-7540	Stop - Speed	1	26	80-8430	Cable - Speed Control	1
10	32151-47	Ring - Retaining	1	27	3272-4	Pin - Cotter	1
11	80-7000	Arm - Pivot	1	28	42-3560	Bolt - Shoulder	2
12	323-7	Screw - Cap Hex. Hd.	2	29	66-4160	Spring - Extension	1
13	2411-51	Eye - Rod R.H. Thread	2	30	323-4	Screw - Cap Hex. Hd.	2
14	80-7580	Rod - Speed Adjustment	2	‡31	80-8150	Panel - Control (English)	1
15	3220-3	Nut - Jam	2	32	3256-14	Washer - Flat	8
16	80-7590	Spacer	1	33	32104-60	Screw - Hex. Washer Hd.	8
17	323-14	Screw - Cap Hex. Hd.	1	34	3256-23	Washer - Flat	2
				35	3219-20	Nut - Hex. (L.H. Thread)	2

‡For different language versions of this part, see International Decal Cross Reference.



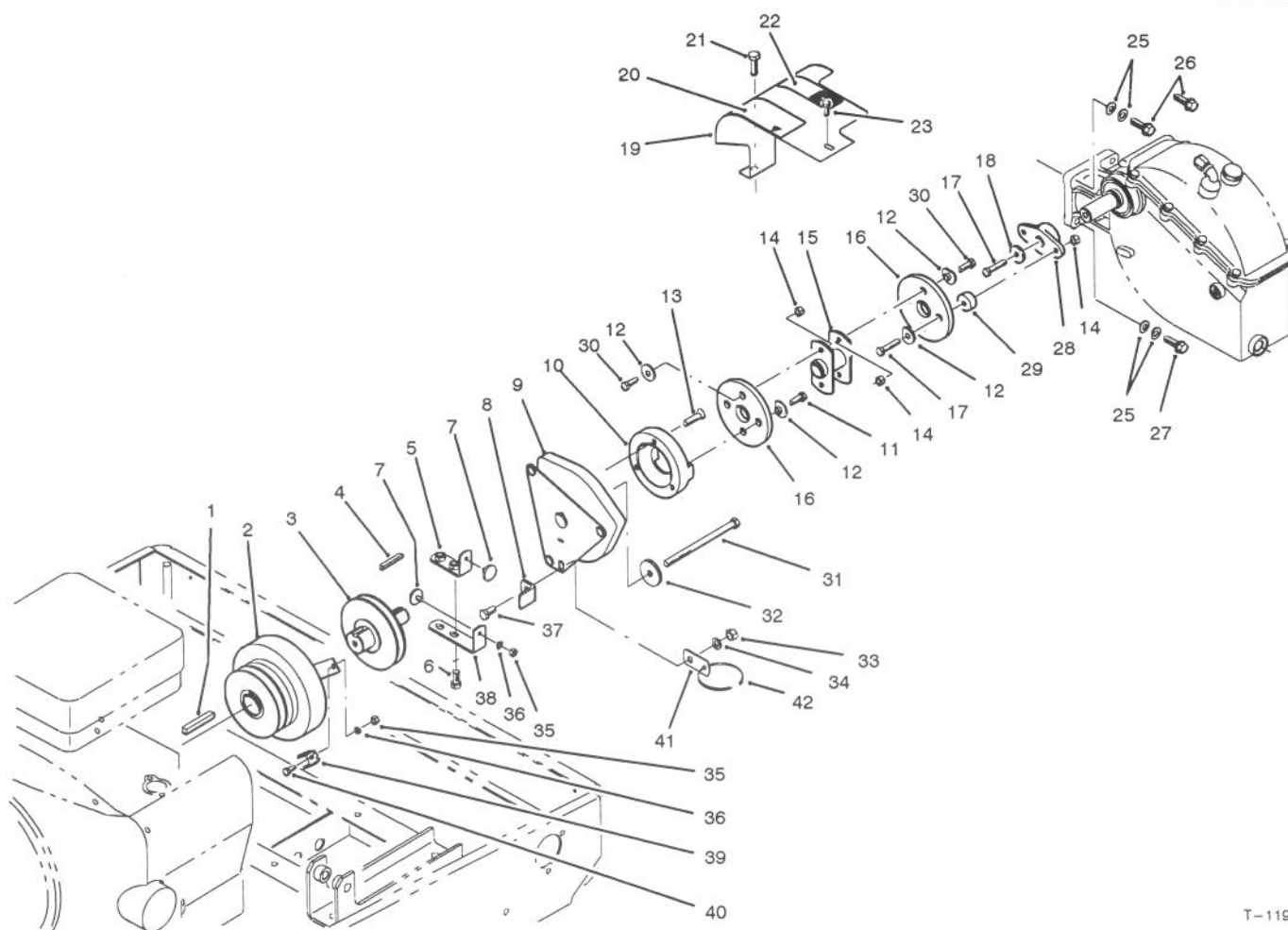
T-1192

ENGINE INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	80-6790	Battery	1	20	3253-21	Washer - Lock	2
2	66-2490	Clamp - Battery	1	21	323-6	Screw - Cap Hex. Hd.	2
3	3256-24	Washer - Flat	3	22	3250-39	Screw - Pan Hd.	1
4	323-9	Screw - Cap Hex. Hd.	1	23	66-2910	Bumper - Rubber	1
5	3253-4	Washer - Lock	8	24	80-7700	Bracket - Support	1
6	3274-10	Screw - Hex. Socket Hd.	4	25	3296-9	Nut - Lock	1
7	80-5650	Muffler	1	26	32152-1	Nut - Lock	2
8	322-4	Screw - Cap Hex. Hd.	2	27	82-1520	Gasket - Muffler	2
9	80-9150	Support - Muffler Shield	1	28	71-5960	Filter - Fuel	1
10	32104-95	Screw - Cap Hex. Hd.	5	29	2412-108	Clamp - Hose	1
11	14-5229	Guard - Muffler (Incl. Ref. #14 & 15)	1	30	47-2961	Hose - Fuel	1
12	322-1	Screw - Cap Hex. Hd.	2	31	2811-10	Fitting - Drain 90°	1
13	3256-23	Washer - Flat	6	32	289-48	Nipple - Drain	1
†14	80-8290	Plate - Hot Surface (English)	3	33	288-4	Cap - Drain	1
15	3269-32	Rivet - Pop	10	34	2412-71	Clamp - R	2
16	80-7680	Support - Muffler	2	35	32128-21	Nut - Flange Lock	4
17	322-3	Screw - Cap Hex. Hd.	2	36	52-5980	Spacer	2
†18	80-9350	Plate - Hot Surface (English)	2	37	323-19	Screw - Cap Hex. Hd.	4
19	14-5239	Guard - Muffler L.H. (Incl. Ref. #15 & 18)	1	38	3255-9	Washer - E.T.L.W.	1
*	14-5249	Guard - Muffler R.H. (Incl. Ref. #15 & 18)	1	39	80-8370	Cable - Battery (Neg.)	1
				*	80-8380	Cable - Battery (Pos.)	1
				40	80-5400	Engine	1
				41	80-9940	Decal - Service Check	1
				42	80-9950	Decal - Quick Reference	1

*Not Illustrated

†For different language versions of this part, see International Decal Cross Reference.



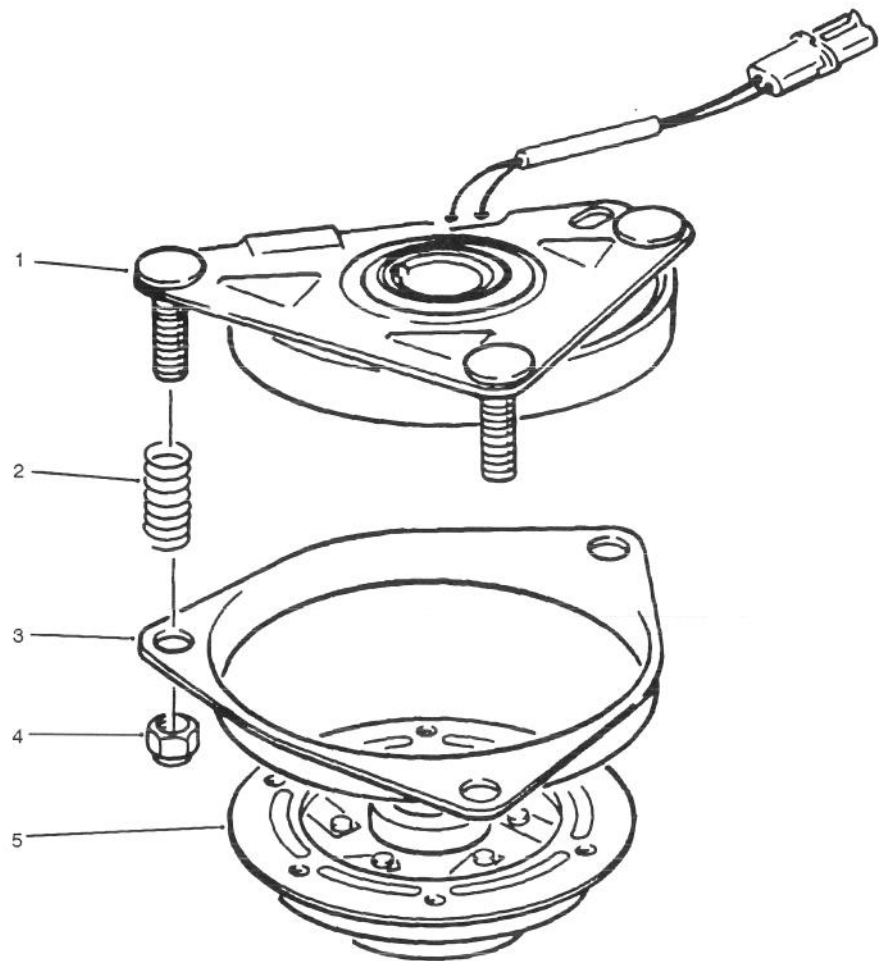
T-1194

GEAR BOX DRIVE ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	80-6140	Key - Clutch	1	21	32144-67	Screw - Hex. Washer Hd.	1
2	80-5430	Clutch - Water Pump	1	‡22	80-8040	Decal - Warning (English)	1
3	80-9520	Pulley - Engine	1	23	32104-95	Screw - Hex. Washer Hd.	1
4	7-0238	Key - Clutch	1	25	3256-24	Washer - Flat	8
5	80-9760	Stop - Clutch	1	26	3234-24	Screw - Hex. Washer Hd.	2
6	323-6	Screw - Cap Hex. Hd.	2	27	3234-11	Screw - Hex. Washer Hd.	2
7	240-14	Bumper	2	28	80-8180	Hub - Adapter	1
8	80-8630	Angle - Clutch	1	29	80-8660	Spacer - Coupling	2
9	80-6700	Electric Clutch Assembly	1	30	3210-5	Screw - Cap Hex. Hd.	4
10	80-6930	Adapter - Clutch	1	31	3211-38	Screw - Cap Hex. Hd.	1
11	322-4	Screw - Cap Hex. Hd.	2	32	80-8560	Washer	1
12	80-8620	Spacer - Coupler	8	33	3217-7	Nut - Lock	1
13	32108-103	Screw - Flat Hd.	3	34	3253-21	Washer - Lock	1
14	32152-5	Nut - Lock	6	35	3217-5	Nut - Lock	3
15	80-6950	Shaft - Coupler	1	36	3253-3	Washer - Lock	3
16	80-8650	Disc - Rubber	2	37	323-4	Screw - Cap Hex. Hd.	1
17	3210-8	Screw - Cap Hex. Hd.	3	38	80-9780	Stop - Clutch	1
18	80-8570	Washer	1	39	80-6920	Bracket - Clutch Retainer	2
19	14-5169	Shield - Drive	1	40	321-3	Screw - Cap Hex. Hd.	1
		(Incl. Ref. #20 & 22)	1	41	80-9230	Support - Wire	1
‡20	80-8000	Decal - Warning (English)	1	42	3290-378	Tie - Cable	1

*Not Illustrated

‡For different language versions of this part, see International Decal Cross Reference.

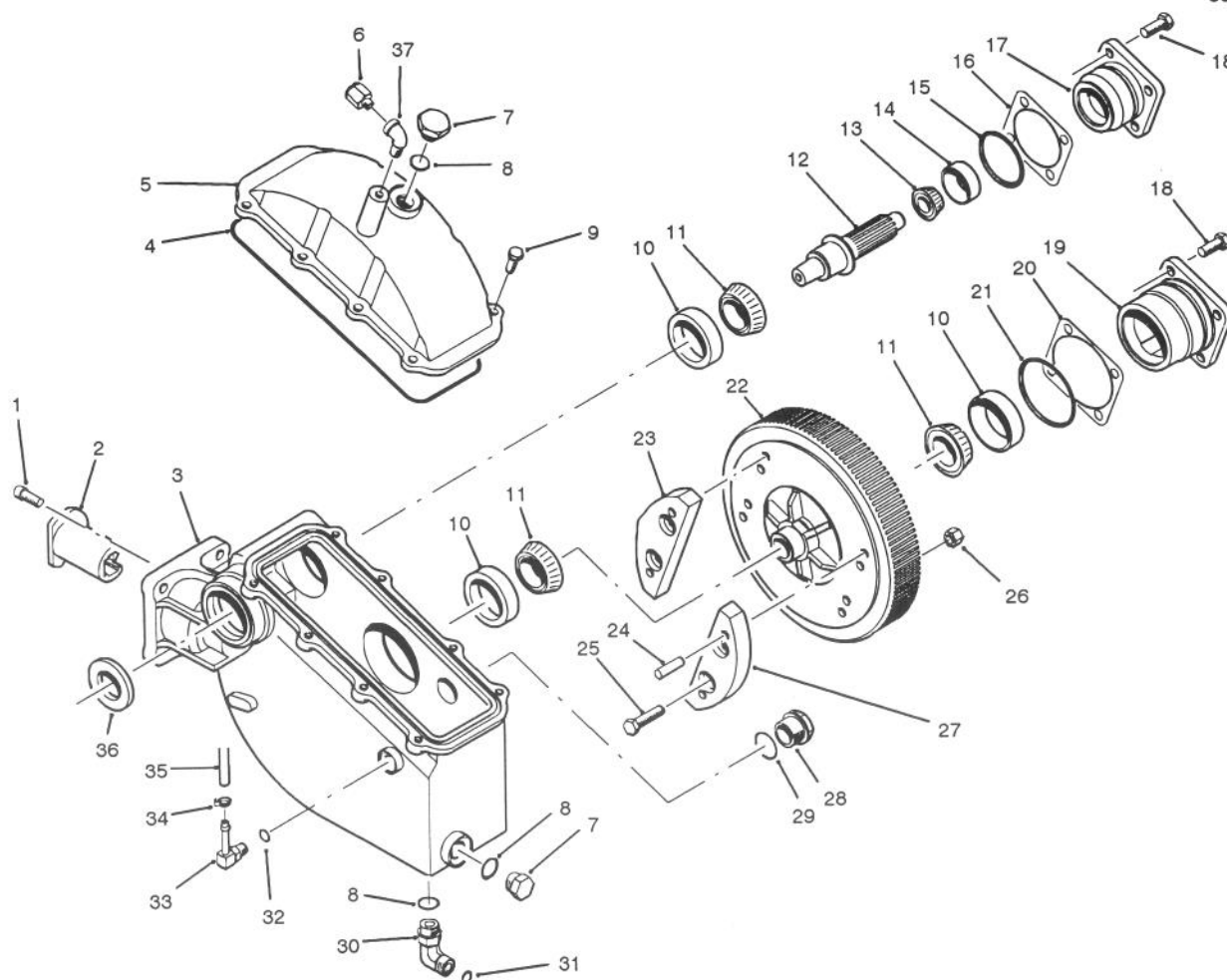


T-1274

ELECTRIC CLUTCH ASSEMBLY NO. 80-6700

Ref. No.	Part No.	Description	No. Used
1	67-7050	Field Rotor Assembly	1
2	44-8320	Spring - Compression	3
3	67-7100	Plate - Brake	1

Ref. No.	Part No.	Description	No. Used
4	3296-6	Nut - Lock	3
5	80-6710	Armature & Hub Assembly	1

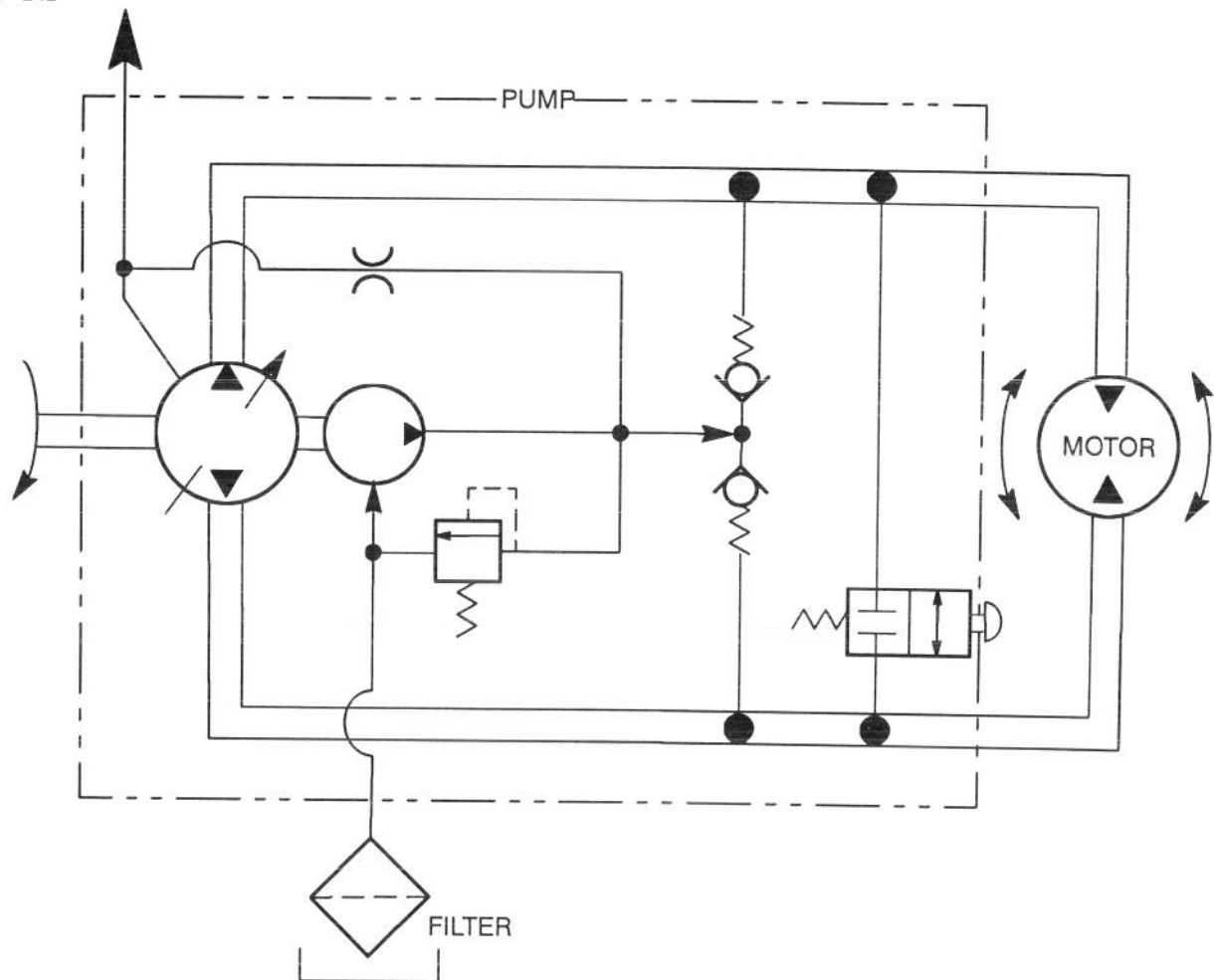


T-1199

GEARBOX ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	3274-10	Screw - Socket Hd.	2	20	80-7040	Shim - Gear/Cam Bearing .002" Red	1
2	80-5330	Sleeve - Follower	1	*	80-7041	Shim - Gear/Cam Bearing .005" Blue	1
3	80-5240	Housing - Gear Box	1	*	80-7042	Shim - Gear/Cam Bearing .015" Pink	1
4	237-171	Seal - Cover	1	*	80-7043	Shim - Gear/Cam Bearing .020" Yellow	1
5	80-5260	Cover - Gear Box	1	21	237-25	Seal - O-Ring	1
6	80-7020	Fitting - Breather	1	22	80-5280	Gear	1
7	353-550	Fitting - Plug (Incl. Ref. #8)	2	23	80-8500	Cam	1
8	237-79	Seal - O-Ring	3	24	32121-42	Pin - Roll	4
9	322-4	Screw - Cap Hex. Hd.	8	25	323-52	Screw - Cap Hex. Hd.	4
10	254-61	Cup - Bearing	3	26	3296-39	Nut - Lock	4
11	254-62	Cone - Bearing	1	27	80-8510	Block - Weight	1
12	80-8340	Shaft - Pinion	1	28	69-1170	Glass - Sight (Incl. Ref. #29)	1
13	254-68	Cone - Bearing	1	29	237-81	Seal - O-Ring	1
14	254-67	Cup - Bearing	1	30	340-98	Fitting - Hydraulic 90° (Incl. Ref. #8 & 31)	1
15	237-172	Seal - O-Ring	1	31	237-30	Seal - O-Ring	1
16	80-7030	Shim - Pinion Bearing .002" Red	1	32	237-78	Seal - O-Ring	1
*	80-7031	Shim - Pinion Bearing .005" Blue	1	33	304-99	Fitting - 90° Elbow (Incl. Ref. #32)	1
*	80-7032	Shim - Pinion Bearing .015" Pink	1	34	2412-108	Clamp - Hose	1
*	80-7033	Shim - Pinion Bearing .020" Yellow	1	35	80-7360	Hose	1
17	80-5320	Housing - Pinion Bearing	1	36	253-148	Seal - Input Shaft	1
18	323-5	Screw - Cap Hex. Hd.	8	37	2811-7	Fitting - Breather 90°	1
19	80-5300	Housing - Gear/Cam Brng.	1				

*Not Illustrated

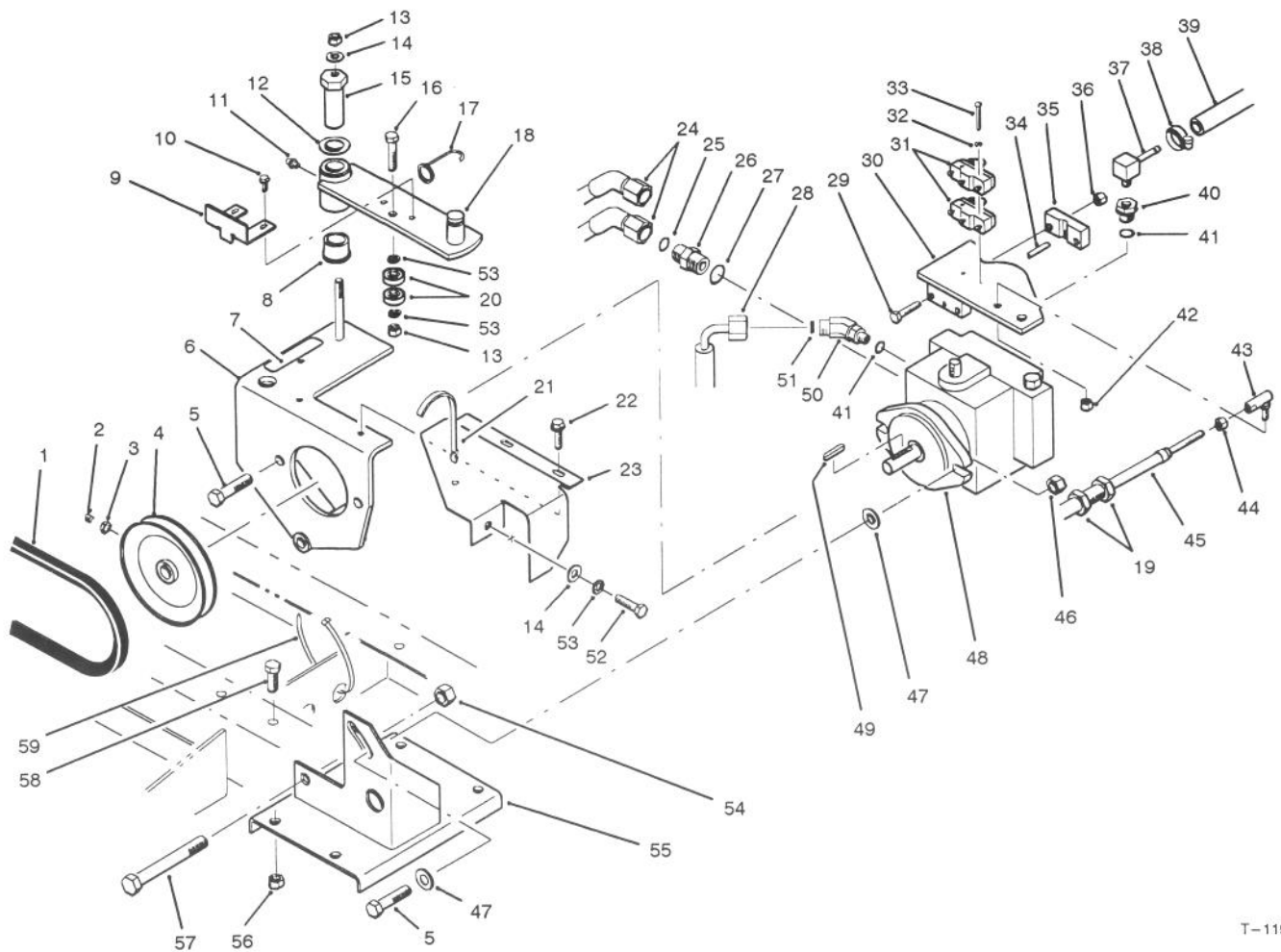


T-1273

HYDRAULIC SCHEMATIC

Ref. No.	Part No.	Description	No. Used

Ref. No.	Part No.	Description	No. Used



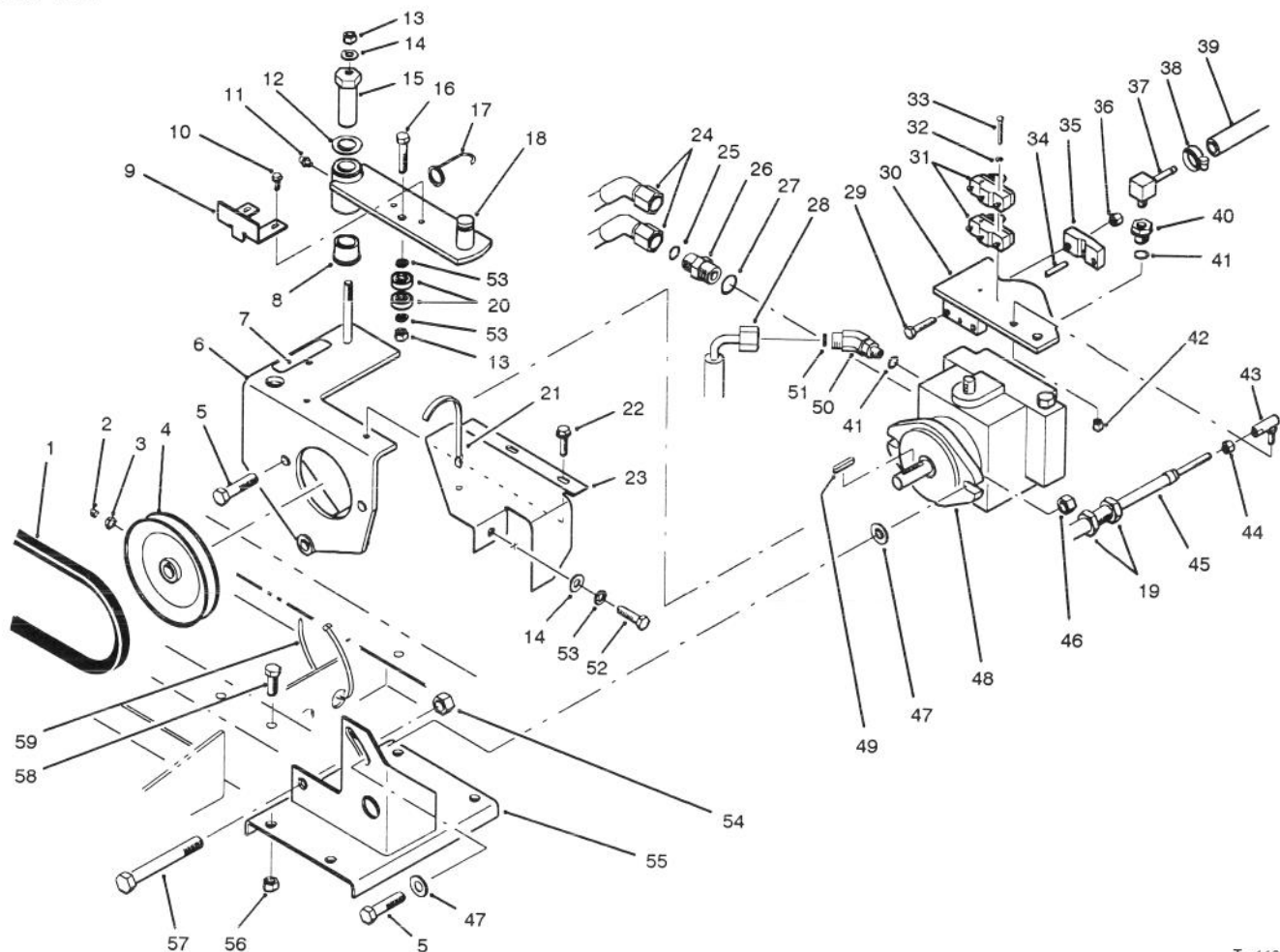
T-1195

HYDRAULIC PUMP INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	80-6720	Belt - V	1
2	3245-5	Screw - Set	2
3	3218-1	Nut - Jam	2
4	80-8170	Pulley - Hydraulic Pump	1
5	324-6	Screw - Cap Hex. Hd.	2
6	14-5209	Mount - Pump (Incl. Ref. #7)	1
‡7	80-8760	Decal - Danger (English)	1
8	256-113	Bushing - Flange	2
9	80-7770	Tab - Switch	1
10	32104-60	Screw - Hex. Washer Hd.	2
11	302-5	Fitting - Grease	1
12	3-6498	Washer - Thrust	1
13	3296-29	Nut - Lock	2
14	3256-23	Washer - Flat	2
15	76-8640	Stud	1
16	322-17	Screw - Cap Hex. Hd.	1
17	80-6610	Spring - Extension	1
18	80-7630	Neutral Lever Assembly	1
19	3220-6	Nut - Jam	2
20	251-259	Bearing - Ball	2
21	3290-410	Tie - Cable	1
22	32104-95	Screw - Hex. Washer Hd.	2
23	80-9170	Bracket - Pulley Guard	1
24	80-7330	Hose - Hydraulic	2
25	237-30	Seal - O-Ring	2

Ref. No.	Part No.	Description	No. Used
26	340-4	Fitting - Hydraulic Str. (Incl. Ref. #25 & 27)	2
27	237-79	Seal - O-Ring	2
28	80-7350	Hose - Hydraulic	1
29	321-10	Screw - Cap Hex. Hd.	2
30	80-7800	Lever - Pump	1
31	29-6162	Switch - Micro	2
32	3254-9	Washer - Lock	2
33	32105-24	Screw - Round Hd.	2
34	32121-34	Pin - Roll	1
35	80-9320	Clamp - Traction	1
36	3296-42	Nut - Lock	2
37	304-75	Fitting - Hydraulic 90°	1
38	2412-108	Clamp - Hose	1
39	80-7360	Hose - Hydraulic	1
40	80-7320	Fitting - Adapter (Incl. Ref. #41)	1
41	237-42	Seal - O-Ring	2
42	3296-3	Nut - Lock	1
43	2411-34	Joint - Ball	1
44	3220-1	Nut - Jam	1
45	80-7220	Stroke Control Cable Assy. (Incl. Ref. #19)	1
46	32128-37	Nut - Flange Lock	2
47	3256-25	Washer - Flat	2
48	80-5450	Hydraulic Pump Assembly	1

‡For different language versions of this part, see International Decal Cross Reference.

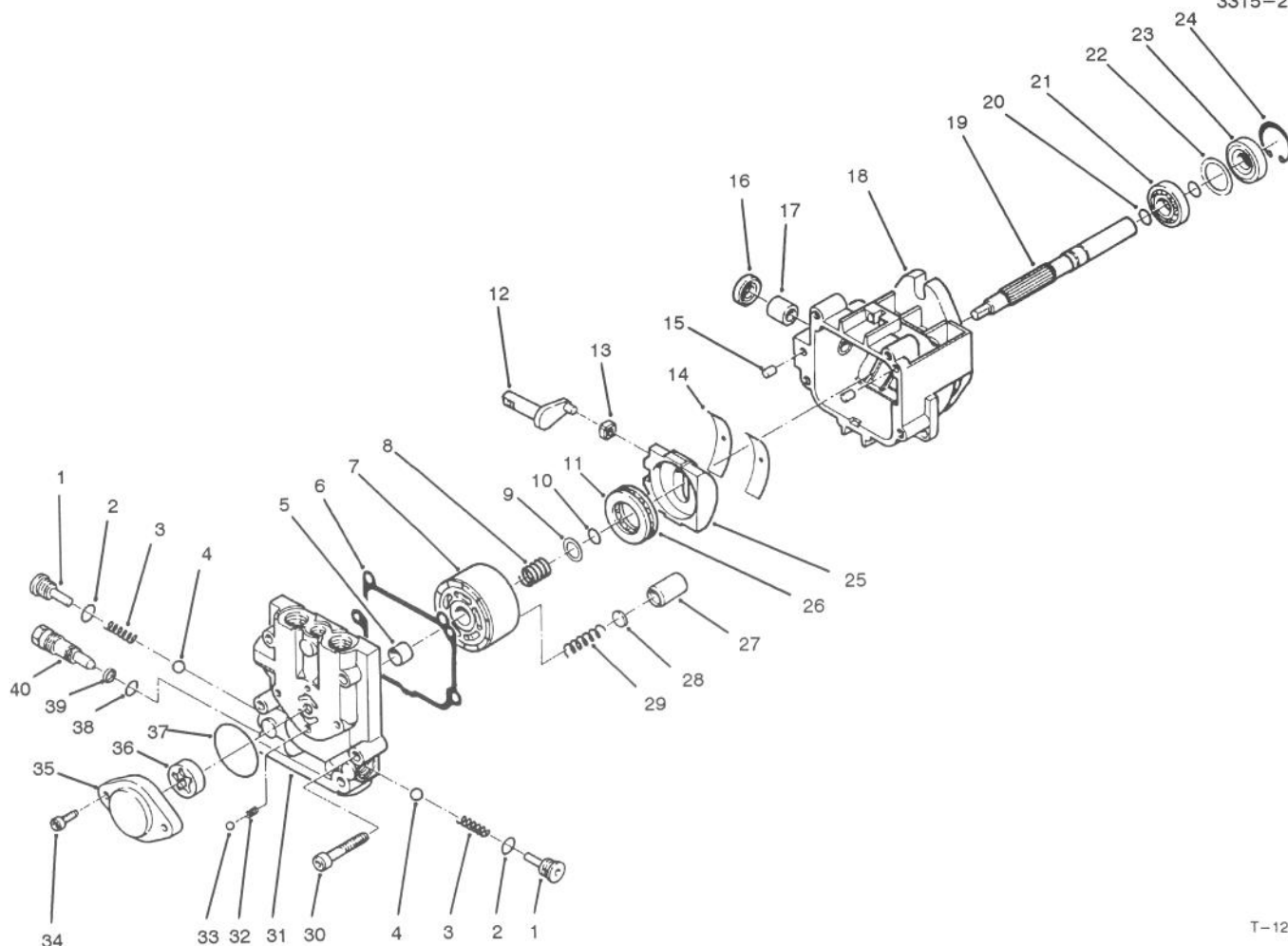


T-1195

HYDRAULIC PUMP INSTALLATION ASSEMBLY (Cont.)

Ref. No.	Part No.	Description	No. Used
49	80-6090	Key - Pump	1
50	340-54	Fitting - Hydraulic 45° (Incl. Ref. #41 & 51)	1
51	237-22	Seal - O-Ring	1
52	322-5	Screw - Cap Hex. Hd.	1
53	3253-4	Washer - Lock	3

Ref. No.	Part No.	Description	No. Used
54	3296-23	Nut - Lock	1
55	80-7460	Support - Pump	1
56	3296-39	Nut - Lock	4
57	325-17	Screw - Cap Hex. Hd.	1
58	323-6	Screw - Cap Hex. Hd.	4
59	3290-378	Tie - Cable	1



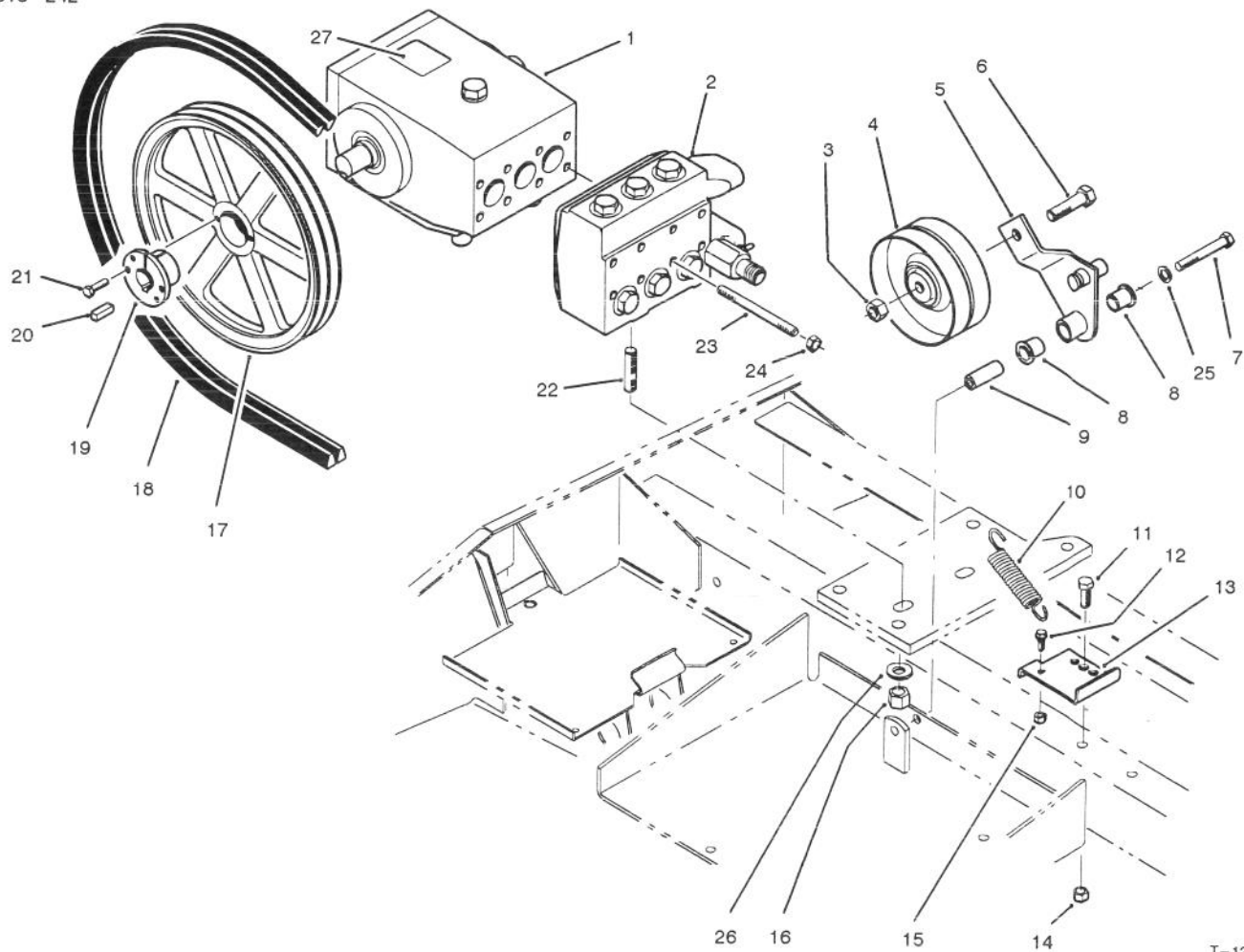
T-1236

HYDRAULIC PUMP ASSEMBLY NO. 80-5450

Ref. No.	Part No.	Description	No. Used
1	80-6120	Check Valve Kit (Incl. Ref. #2-4)	1
2		Seal - O-Ring	2
3		Spring	2
4		Ball	2
5		Journal - Bearing	1
6		Gasket - End Cap	1
7		Cylinder Block Kit (Incl. Ref. #8-10 & 27-29)	1
8		Spring	1
9		Washer	1
10		Ring - Retaining	1
11		Plate - Thrust	1
12		Arm - Trunion	1
13		Guide - Slot	1
14		Cradle - Bearing	2
15		Pin	2
16		Seal - Lip	1
17		Journal - Bearing	1
18		Housing - Assembly (Incl. Ref. #16 & 17)	1
19		Shaft	1
20		Ring - Retaining	2
21		Bearing - Ball	1
22		Spacer	1

Ref. No.	Part No.	Description	No. Used
23		Seal - Lip	1
24		Ring - Retaining	1
25		Swashplate Assembly	1
26		Roller - Thrust	1
27		Piston	5
28		Washer - Thrust	5
29		Spring - Piston	5
30		Screw	4
31		End Cap Assembly (Incl. Ref. #5)	1
32		Ball	1
33		Spring	1
34		Screw	2
35		Housing - Charge Pump	1
36		Gerotor Assembly	1
37		Seal - O-Ring	1
38		Seal - O-Ring	1
39		Ring - Back-Up	1
40		Valve - Bypass	1
*	80-6110	Charge Relief Valve Kit (Incl. Ref. #32-33)	1
*	80-6130	Overhaul Seal Kit (Incl. Ref. #6, 10, 16, 20, 23 & 37-39)	1

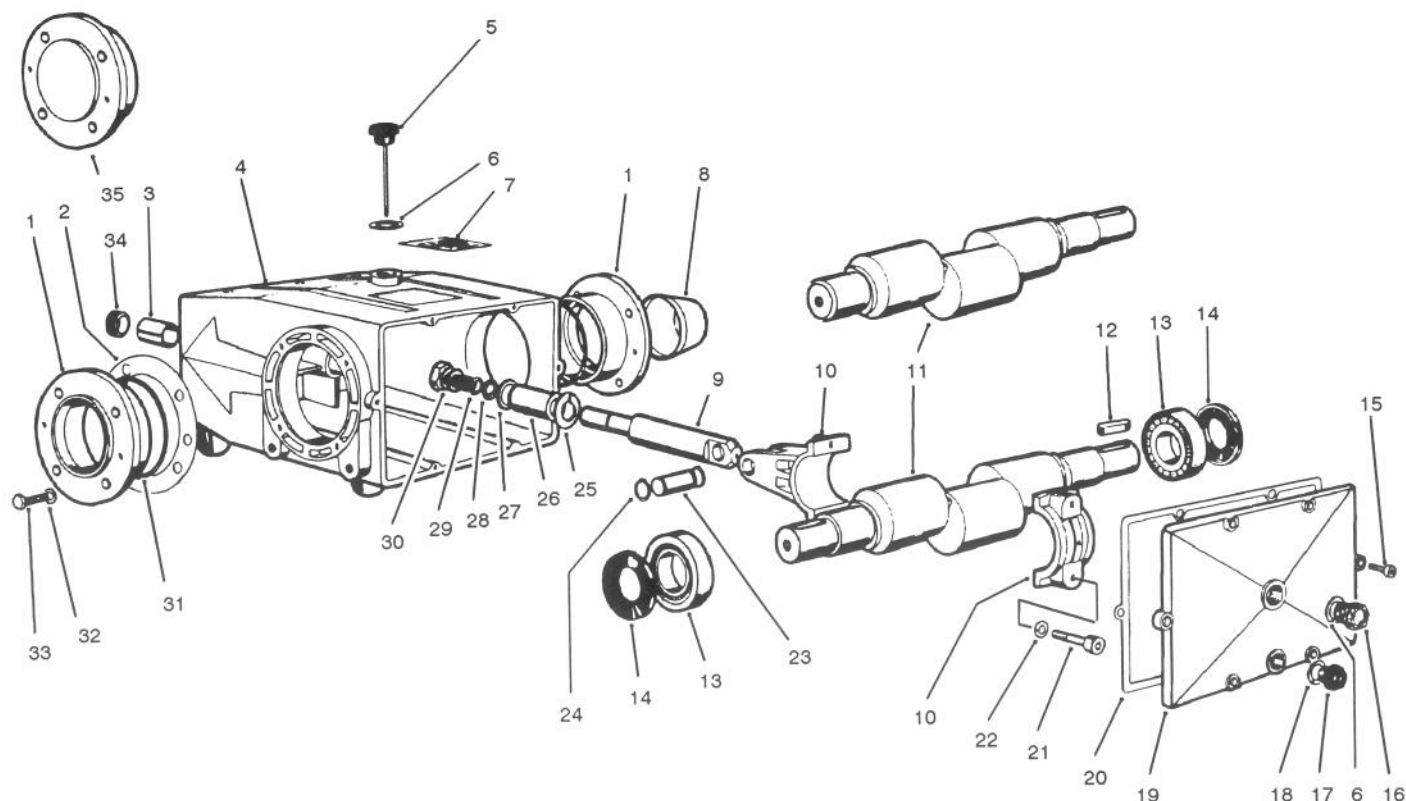
*Not Illustrated



T-1201

WATER PUMP INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	14-5299	Pump Crankcase Assembly (Incl. Ref. #20, 23 & 27)	1	14	3296-39	Nut - Lock	1
2	14-5289	Head - Pump (Incl. Ref. #22)	1	15	3296-56	Nut - Lock	1
3	3296-28	Nut - Lock	1	16	3296-19	Nut - Lock	2
4	80-8360	Pulley - Idler	1	17	80-6650	Pulley - Water Pump	1
5	80-7430	Bracket - Idler	1	18	80-6730	Belt - V	2
6	3213-5	Screw - Cap Hex. Hd.	1	19	80-6660	Collar - Taper Lock (Incl. Ref. #27)	1
7	323-12	Screw - Cap Hex. Hd.	1	20	80-5920	Key - Collar	1
8	80-9610	Bushing - Flange	2	21	321-4	Screw - Cap Hex. Hd.	2
9	80-7710	Sleeve - Idler Bracket	1	22	80-8680	Stud - Mounting	2
10	80-6620	Spring - Extension	1	23	80-8260	Stud - Head	8
11	323-6	Screw - Cap Hex. Hd.	1	24	3219-28	Nut - Lock	8
12	42-3560	Bolt - Shoulder	1	25	3253-21	Washer - Lock	1
13	80-6600	Bracket - Spring	1	26	3256-26	Washer - Flat	2
				27	80-9450	Decal - Pump	1

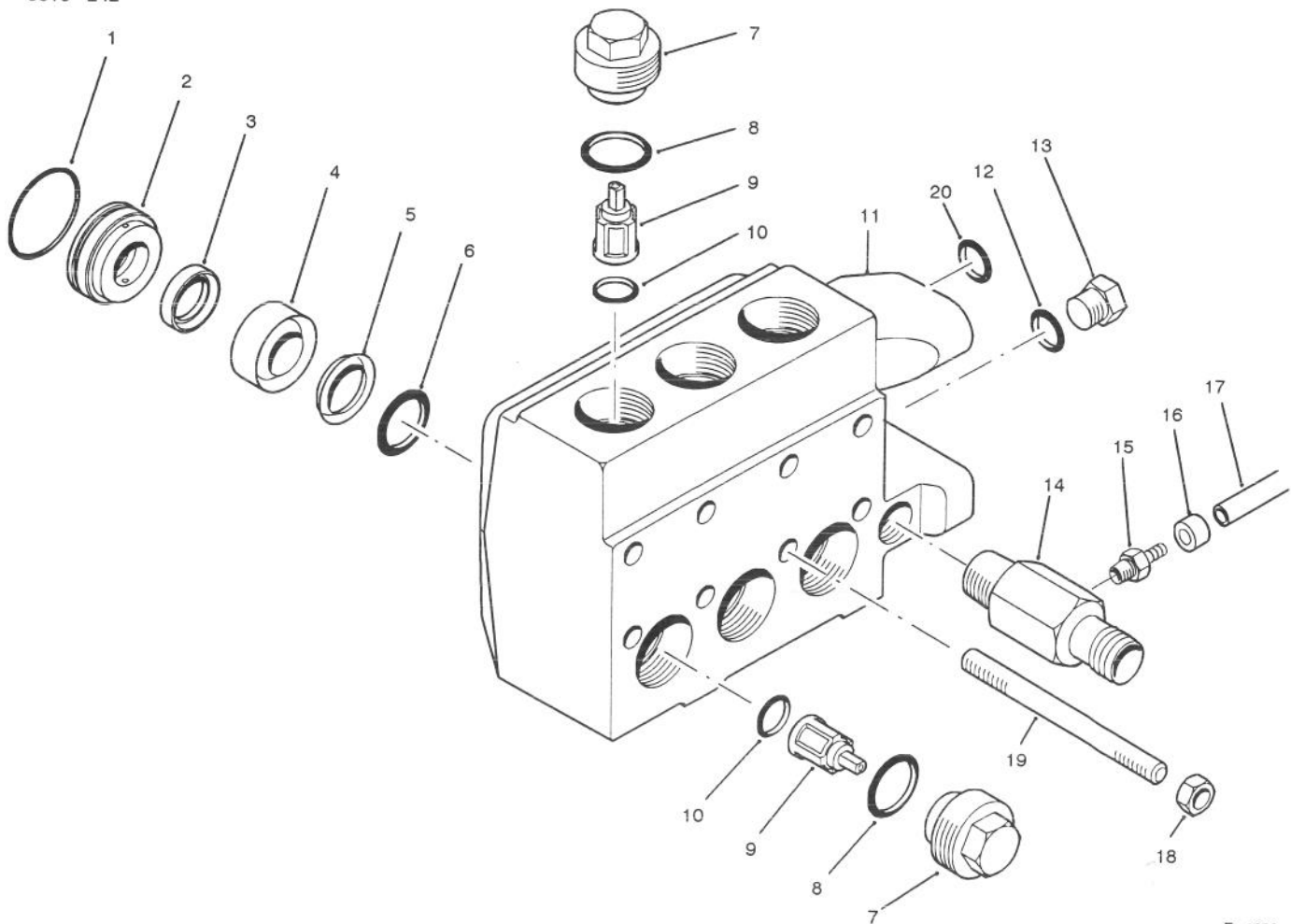


T-1307

WATER PUMP CRANKCASE ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	80-5960	Housing - Bearing (Thru) (Use 2 on pumps with long crankshafts. Use 1 on pumps with short crankshafts)		17	80-5840	Plug - Drain	1
2	80-6040	Shim - Bearing Housing	2	18	80-5830	Gasket	1
3	80-6000	Guide - Plunger	3	19	80-5880	Cover - Crankcase	1
4		Crankcase	1	20	80-5890	Gasket - Crankcase Cover	1
5	80-5990	Dipstick - Oil	1	21	80-5820	Screw - Socket Hd.	6
6	80-5850	Gasket	2	22	80-5810	Washer - Lock	6
7	80-9450	Decal - Crankcase	1	23	80-6070	Pin - Connecting Rod	3
8	80-5950	Protector - Shaft (For pumps with long crankshafts only)	1	24	80-6060	Ring - Retaining	6
9	80-5940	Rod - Plunger	3	25		Spacer - Copper	3
10	80-5800	Connecting Rod Assembly (Incl. Ref. #21 & 22)	3	26		Sleeve - Plunger	3
11	80-5930	Crankshaft (Long)	1	27		Spacer - Copper	3
11	80-9430	Crankshaft (Short)	1	28		Ring - Teflon	3
12	80-5920	Key - Crankshaft	1	29		Seal - O-Ring	3
13	80-5910	Bearing - Roller	2	30		Plunger Bolt Assembly	3
14	80-5900	Seal - Crankshaft	2	31	80-5970	Seal - O-Ring	2
15	80-5870	Screw - Socket Hd.	6	32	80-6020	Washer	8
16	80-5860	Glass - Sight	1	33	80-6030	Screw - Cap Hex. Hd.	8
				34	80-6010	Plunger Seal Kit (Incl. 3 Seals)	1
				35	80-9420	Housing - Bearing (Cap) (Use on pumps with short crankshafts only)	1
				*	80-6050	Sleeve Kit (20mm) (Incl. Ref. #25-30)	3
				*	14-5299	Water Pump Crankcase (Complete)	1

*Not Illustrated



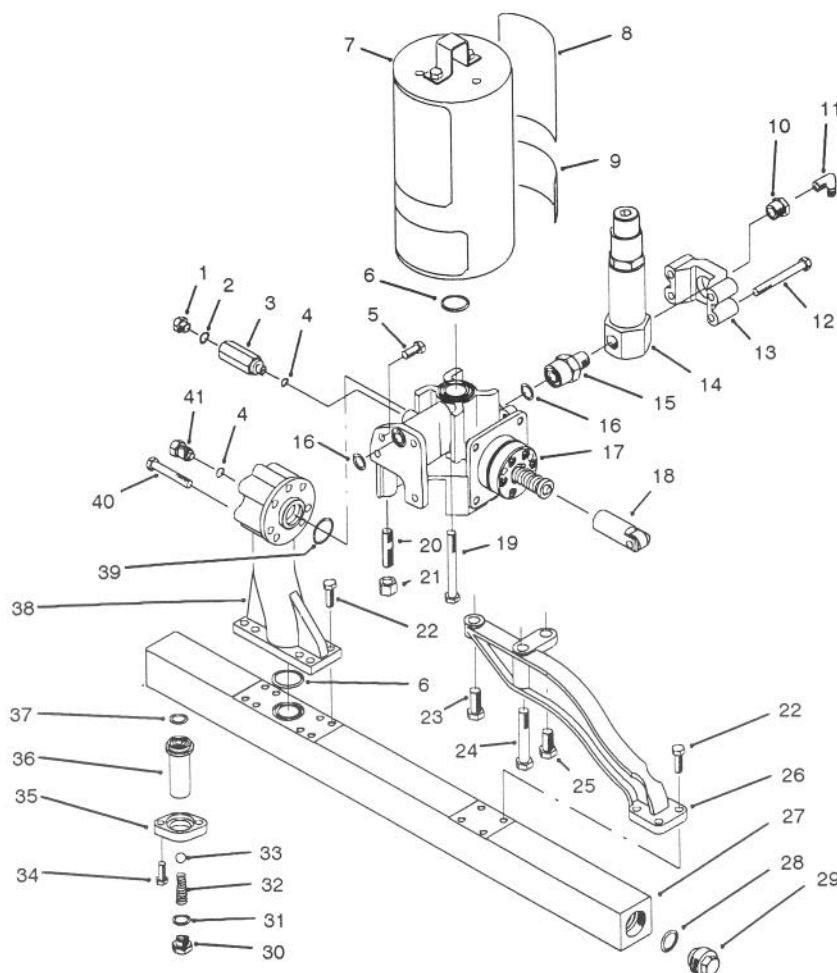
T-1202

WATER PUMP HEAD ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	237-170	Seal - O-Ring	3
2	80-5720	Retainer - Seal	3
3	80-5760	Seal - U-Cup	3
4	80-5750	Support - Seal/Plunger	3
5	80-5740	Seal - Packing Vee	3
6	80-5730	Ring - Head Back-Up	3
7	80-8220	Cap - Check Valve	6
8	80-5791	Seal - O-Ring	6
9	80-5630	Valve - Check	6
10	80-5781	Seal - Check Valve	6
11	14-5289	Head - Pump	1
12	80-5794	Seal - O-Ring	1

Ref. No.	Part No.	Description	No. Used
13	354-82	Plug Assembly	3
14	80-9400	Fitting - Straight Bard	1
15	304-101	Fitting - Barb	1
16	80-9480	Retainer - Tube	1
17	80-6521	Hose - Gage	1
18	3219-28	Nut - Hex.	8
19	80-8260	Stud - Head	8
20	80-5782	Seal - O-Ring	1
*	80-9640	Kit - Seal (Incl. Ref. #1, 3-6 & 20)	1
*	80-9650	Kit - Check Valve (Incl. Ref. #8-10)	1

*Not Illustrated



T-1200

WATER MANIFOLD & VALVE ASSEMBLY

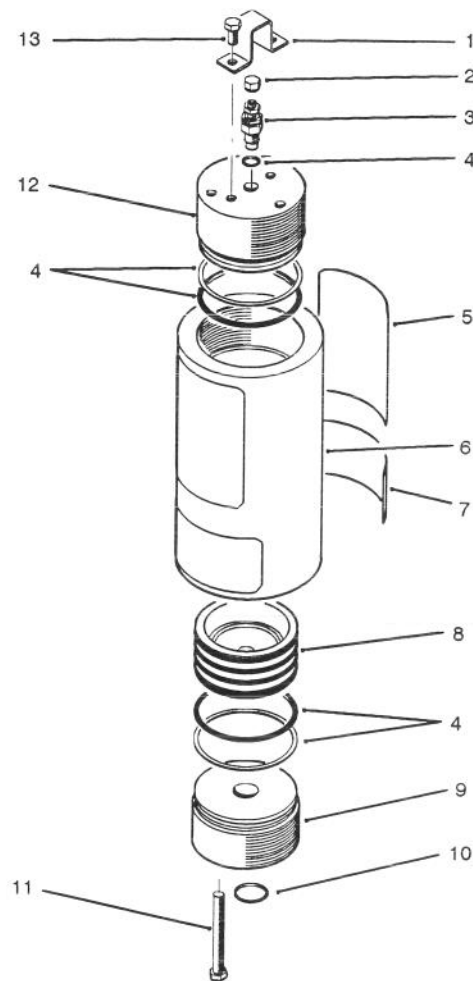
Ref. No.	Part No.	Description	No. Used
1	354-82	Plug	1
2	80-5794	Seal - O-Ring	1
3	80-9980	Fitting - Extension	1
4	80-5793	Seal - O-Ring	2
5	323-6	Screw - Cap Hex. Hd.	4
6	80-5784	Seal - O-Ring	2
7	80-9190	Accumulator Assembly (Incl. Ref. #6, 8, 9 & 19)	1
†8	80-8030	Decal - Danger (English)	2
†9	80-8880	Decal - Warning (English)	2
10	354-92	Fitting - Reducer	1
11	354-93	Fitting - 90° Elbow	1
12	323-16	Screw - Cap Hex. Hd.	4
13	80-9890	Clamp - Valve	1
14	80-7070	Relief Valve Assembly	1
15	80-9900	Fitting - Valve	1
16	80-5782	Seal - O-Ring	2
17		Valve Assembly (Incl. Ref. #20)	1
18	80-5580	Follower - Cam	1
19	324-26	Screw - Cap Hex. Hd.	4
20	80-8680	Stud	2
21	3296-19	Nut - Lock	2

Ref. No.	Part No.	Description	No. Used
22	323-5	Screw - Cap Hex. Hd.	12
23	325-5	Screw - Cap Hex. Hd.	1
24	325-12	Screw - Cap Hex. Hd.	1
25	325-4	Screw - Cap Hex. Hd.	1
26	80-5080	Support - Manifold	1
27	80-5380	Manifold	1
28	80-5791	Seal - O-Ring	2
29	80-8220	Plug	2
30	80-6670	Nozzle (#53) (Std.)	11
*†	80-6673	Nozzle (#46) (Opt.)	6
*†	80-6675	Nozzle (#56) (Opt.)	6
31	80-6680	Washer	11
32	80-9710	Spring - Conical	11
33	255-12	Ball - Check	11
34	3234-35	Screw - Hex. Flange Hd.	22
35	80-9800	Flange - Nozzle	11
36	80-9720	Extension - Nozzle	11
37	80-5786	Seal - O-Ring	11
38	80-8210	Feeder - Manifold	1
39	80-5780	Seal - O-Ring	1
40	323-13	Screw - Cap Hex. Hd.	7
41	80-8230	Plug	1

*Not Illustrated

†Refer to Product Operators Manual

‡For different language versions of this part, see International Decal Cross Reference.

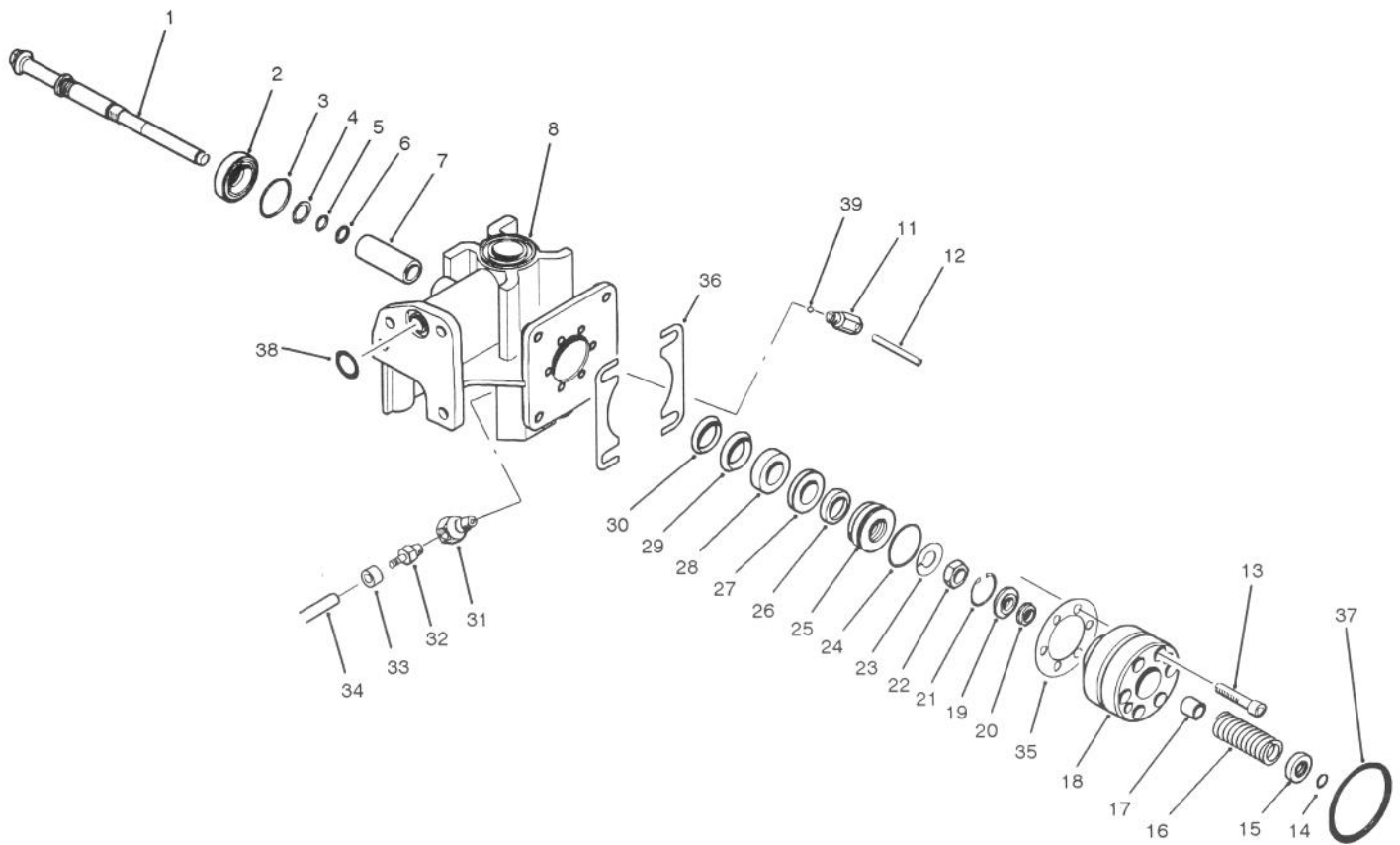


T-1257

ACCUMULATOR ASSEMBLY NO. 80-9190

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	80-9020	Protector - Valve	1	8	80-8980	Piston Assembly	1
2	80-8970	Cap - Valve	1	9	80-9040	Cap - Water End	1
3	80-9000	Valve - Gas	1	10	80-5784	Seal - O-Ring	1
4	80-8990	End Seal/Back-Up Ring Kit	1	11	324-26	Screw - Cap Hex. Hd.	4
‡5	80-8030	Decal - Danger (English)	2	12	80-9030	Cap - Gas End	1
6		Body	1	13	323-4	Screw - Cap Hex. Hd.	2
‡7	80-8880	Decal - Warning (English)	2				

Note: Accumulator is shipped without gas pressure, it must be charged by an Authorized Toro Technician prior to use. ‡For different language versions of this part, see International Decal Cross Reference.

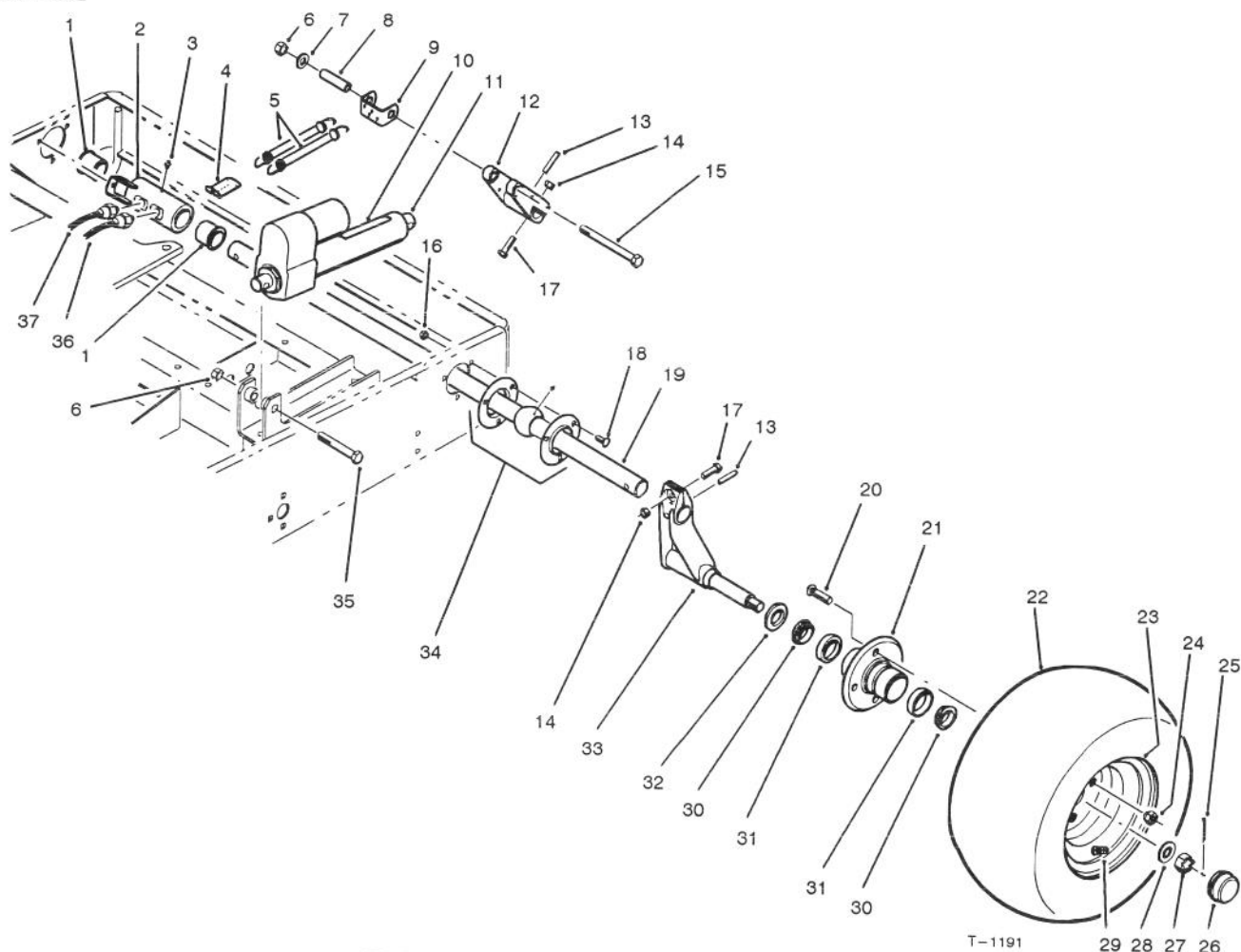


T-1206

WATER VALVE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	80-5600	Spool - Valve	1
2	80-5610	Seat - Valve	1
3	80-5780	Seal - O-Ring	1
4	80-8490	Washer - Back-Up	1
5	80-8460	Seal - O-Ring	1
6	80-8470	Ring - Support	1
7	80-8450	Sleeve - Ceramic	1
8	14-7449	Body - Valve	1
11	80-9750	Valve - Bleed	1
12	32121-48	Pin - Roll	1
13	3274-83	Screw - Socket Hd.	6
14	32151-99	Ring - Retaining	1
15	80-5570	Retainer - Valve Spring	1
16	80-5770	Spring - Compression	1
17	256-315	Bushing - Sleeve	1
18	80-5590	Pilot - Gear Box	1
19	80-9200	Seal - Back-Up	1
20	253-168	Seal - Oil	1
21	32120-37	Ring - Retaining	1
22	3220-23	Nut - Jam	1
23	80-8480	Washer	1
24	237-178	Seal - O-Ring	1
25	80-9220	Retainer - Seal	1
26	80-5760	Seal - U-Cup	1
27	80-9390	Guide - Valve	1

Ref. No.	Part No.	Description	No. Used
28	80-5751	Support - Seal/Plunger	1
29	80-5740	Seal - Packing	1
30	80-5730	Ring - Head Back-Up	1
31	80-9410	Fitting - Adapter	1
32	304-101	Fitting - Barb	1
33	80-9480	Tube - Retainer	1
34	80-6521	Hose - Gage	1
35	80-9560	Gasket - Pilot	1
36	80-7050	Shim - Gear Box .002" Red	2
*	80-7051	Shim - Gear Box .005" Blue	2
*	80-7052	Shim - Gear Box .015" Pink	2
*	80-7053	Shim - Gear Box .020 Yellow	2
37	237-173	Seal - O-Ring	1
38	80-5782	Seal - O-Ring	1
39	255-13	Ball - Steel	1
*	80-9660	Kit - Rebuild (Incl. Ref. #3-7, 14, 17, 20, 22-24, 26-30, 35-38 & Ref. No. 44 on page 23)	1
*	80-6050	Sleeve Kit (Incl. Ref. #4-7 & 23)	1

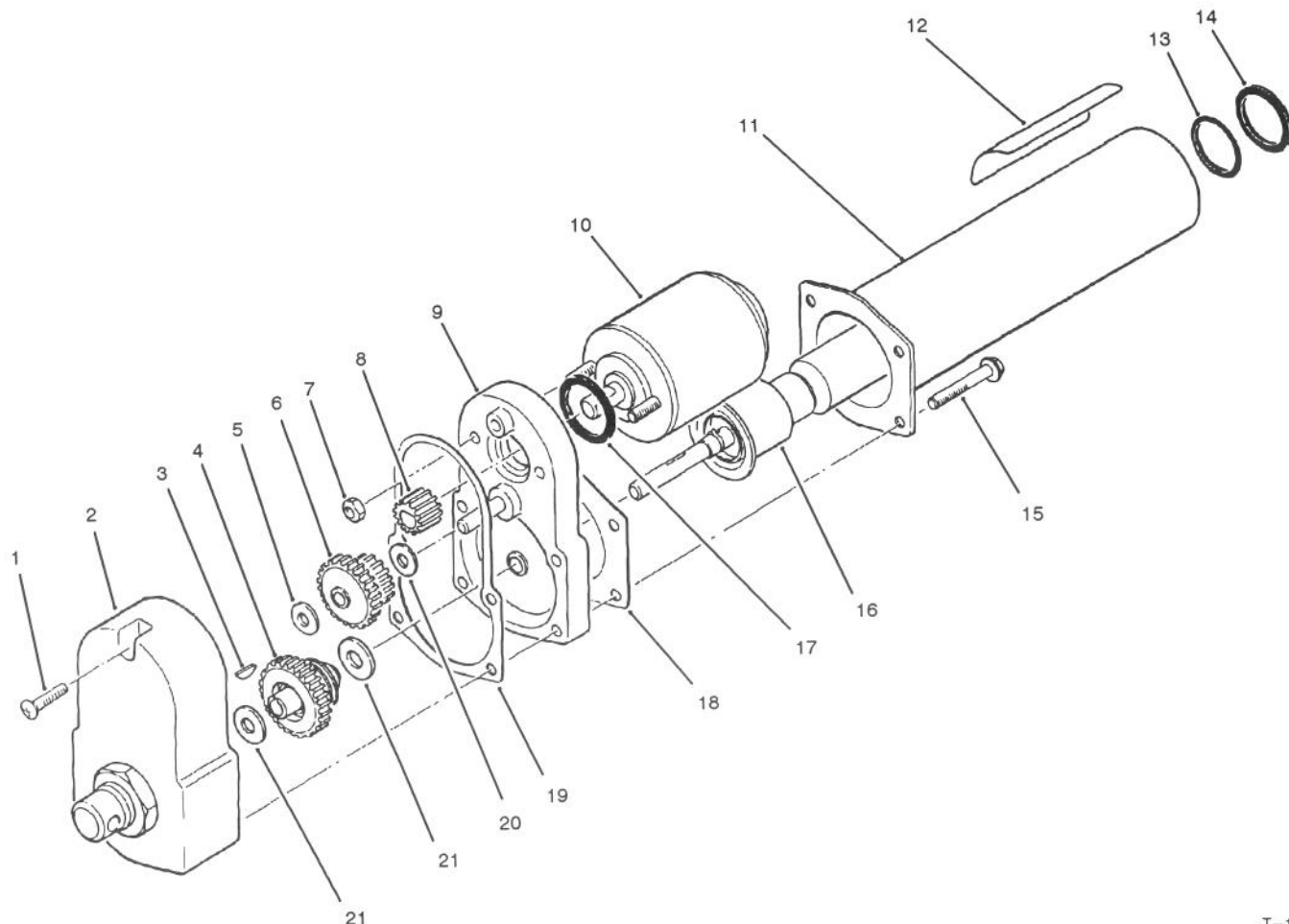


REAR AXLE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	256-268	Bushing - Flange	2
2	80-6540	Tube - Limit	1
3	302-5	Fitting - Grease	1
4	80-8270	Bracket - Adjustment	1
5	80-7870	Spring - Extension	2
6	3296-45	Nut - Lock	2
7	3256-26	Washer - Flat	1
8	80-7970	Tube - Return	1
9	80-7960	Bracket - Return	1
†10	80-8010	Decal - Warning (English)	1
11	14-5219	Lift Actuator Assembly (Incl. Ref. 10)	1
12	80-5140	Lever - Lift	1
13	32121-66	Pin - Roll	3
14	3296-39	Nut - Lock	3
15	325-22	Screw - Cap Hex. Hd.	1
16	3296-29	Nut - Lock	6
17	323-7	Screw - Cap Hex. Hd.	3
18	3230-22	Bolt - Carriage	6
19	80-5710	Shaft - Lift	1

Ref. No.	Part No.	Description	No. Used
20	10-6830	Stud - Drive	8
21	80-6580	Hub Assembly (Incl. Ref. #20 & 31)	2
22	28-3680	Tire	2
23	217-60	Rim - Wheel	2
24	242-50	Nut - Lug	8
25	3272-13	Pin - Cotter	2
26	241-119	Cap - Hub	2
27	32136-5	Nut - Slotted	2
28	3256-28	Washer - Flat	2
29	232-27	Stem - Valve	2
30	254-94	Cone - Bearing	4
31	254-72	Cup Bearing	4
32	253-129	Seal - Bearing	2
33	80-5120	Arm - Lift	2
34	80-5560	Flange Bearing Assembly	2
35	325-14	Screw - Cap Hex. Hd.	1
36	72-4310	Switch - Ball N.C.	1
37	72-4320	Switch - Ball N.O.	1

†For different language versions of this part, see International Decal Cross Reference.



T-1322

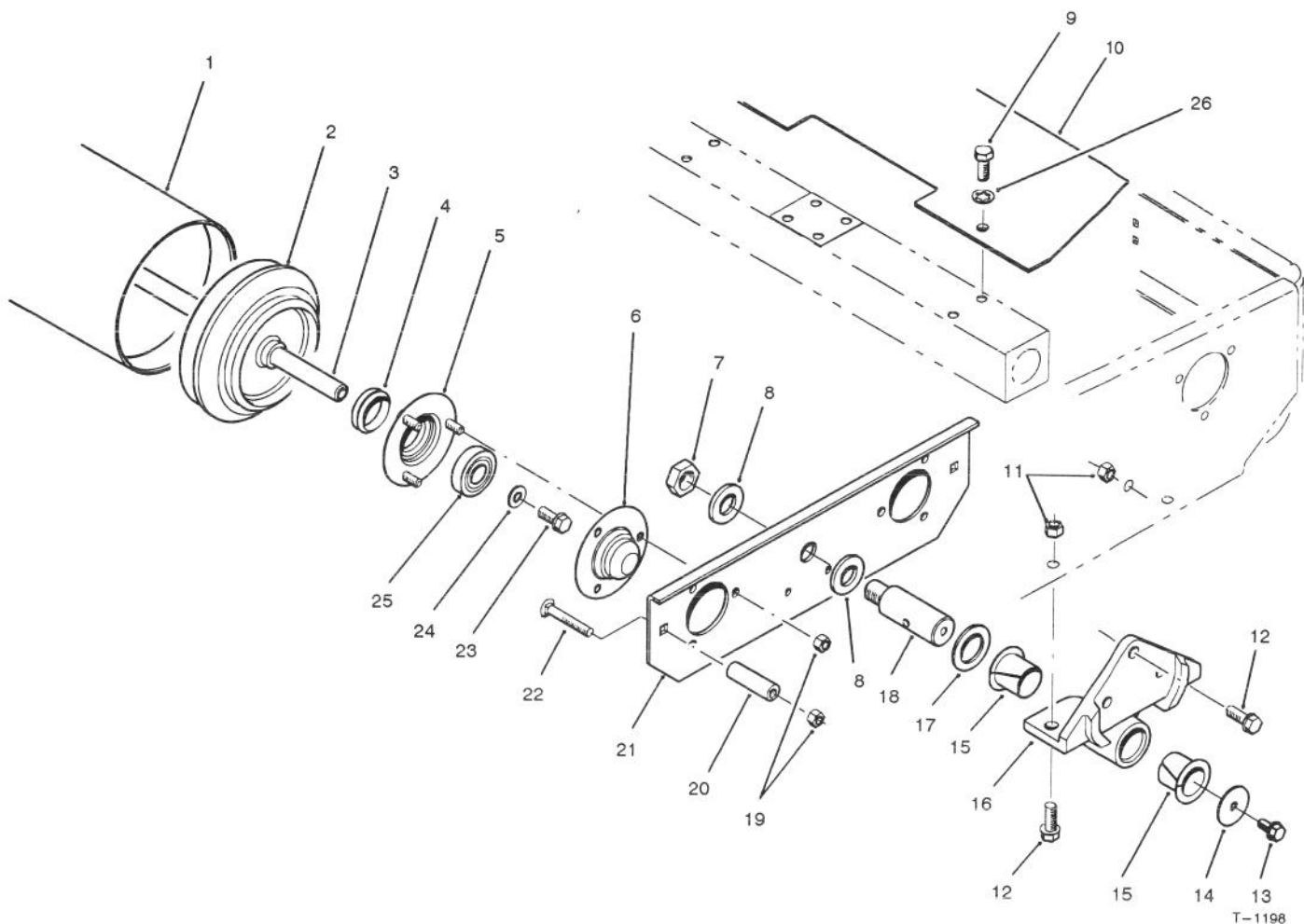
LIFT ACTUATOR ASSEMBLY NO. 14-5219

Ref. No.	Part No.	Description	No. Used
1		Screw	1
2		Rear Housing Assembly	1
3		Key - Woodruff	1
4	80-5530	Clutch Assembly (Incl. Ref. #3 & 21)	1
5		Washer	1
6		Gear - Intermediate	1
7		Nut - Hex.	2
8		Gear - Motor	1
9		Front Housing Assembly	1
10	80-5540	Motor Assembly (Incl. Ref. #8)	1
11	80-5520	Cover Tube Assembly (Incl. Ref. #13 & 14)	1

Ref. No.	Part No.	Description	No. Used
‡12	80-8010	Decal - Warning (English)	1
13		Seal - O-Ring	1
14		Seal - Lip	1
15		Screw - Hex. Washer Hd.	4
16		Ball Screw & Brake Assy.	1
17		Seal - Motor	1
18		Gasket -	1
19		Gasket - Housing	1
20		Washer	1
21		Washer	2
*	80-5550	Seal Kit (Incl. Ref. #1, 7, 13-15 & 17-19)	1

*Not Illustrated

‡For different language versions of this part, see International Decal Cross Reference.

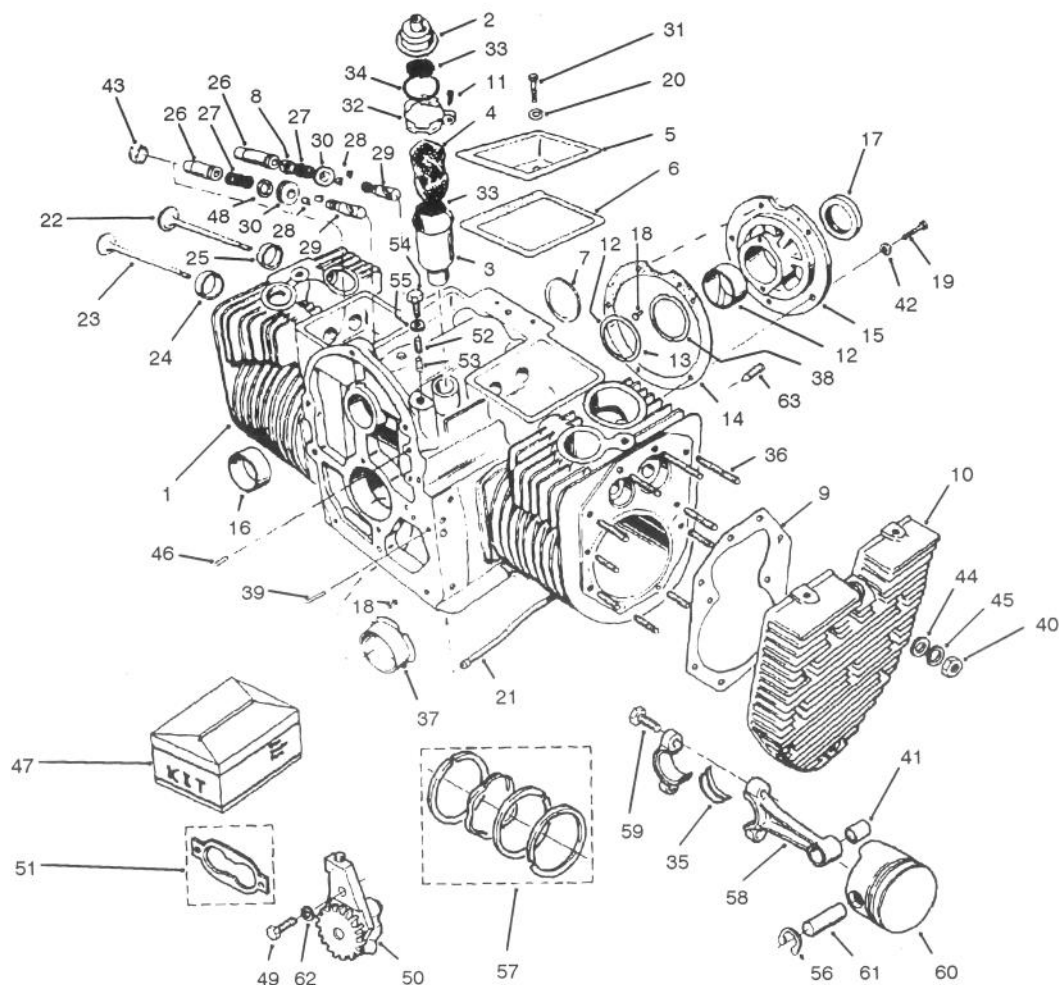


T-1198

ROLLER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	80-8740	Roller	2
2	80-5200	End Cap - Roller	4
3	80-8730	Shaft - Roller	2
4	253-167	Seal - V	4
5	80-8550	Flange - Bearing	4
6	80-8530	Flange - Bearing	4
7	3296-15	Nut - Lock	2
8	3256-28	Washer - Flat	4
9	323-2	Screw - Hex. Washer Hd.	6
10	80-9180	Shield - Manifold	2
11	3296-39	Nut - Lock	10
12	3234-24	Screw - Hex. Washer Hd.	10
13	3234-14	Screw - Hex. Washer Hd.	2

Ref. No.	Part No.	Description	No. Used
14	3256-68	Washer - Flat	2
15	256-318	Bushing - Nyliner	4
16	80-8330	Pivot - Roller	2
17	3-6781	Washer - Thrust	2
18	80-8690	Pin - Pivot	2
19	3296-29	Nut - Lock	16
20	80-8720	Stop - Roller	4
21	80-8710	Plate - Side	2
22	3230-8	Bolt - Carriage	4
23	3234-25	Screw - Hex. Washer Hd.	4
24	80-6990	Washer - Thrust	4
25	251-351	Bearing - Ball	4
26	3254-6	Washer - I.T.L.W.	6



T-1258

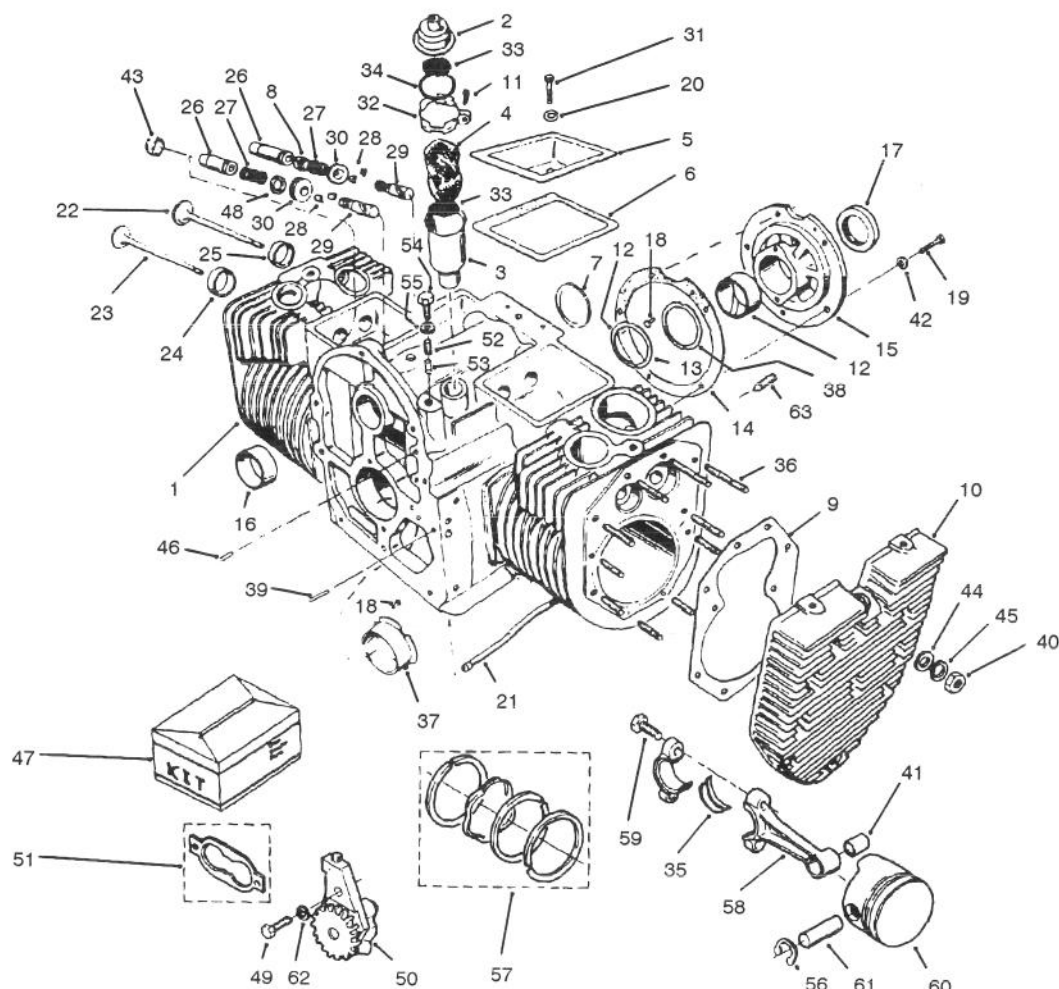
ENGINE CYLINDER BLOCK ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	82-1750	Short Block Assembly	1
2	82-0550	Breather Cap & Valve	1
†3	82-0540	Tube - Breather	1
4	57-8580	Baffle - Breather Tube	1
5	82-0280	Cover - Valve (Coil)	1
*	82-1710	Cover - Valve (Dipstick)	1
6	82-0260	Gasket - Valve Cover	2
†7	82-1180	Plug - Expansion	1
8	82-0270	Seal - Intake Valve	2
9	82-0130	Gasket - Cylinder Head	2
*	82-0960	Gasket Kit (Carbon Remove)	1
10	82-0210	Head - Cylinder	2
11	82-1480	Screw - Tapping	1
12	57-8050	Bearing - Crank (Std.)	1
*	59-0020	Bearing - Crank (.002" US)	1
*	57-8060	Bearing - Crank (.010" US)	1
*	59-0030	Bearing - Crank (.020" US)	1
*	59-0040	Bearing - Crank (.030" US)	1
†13	57-8160	Washer - Thrust	2
†14	57-8010	Gasket - Bearing Plate	1
†15	82-0020	Plate - Bearing Rear	1
†16	57-8000	Bearing - Camshaft	2
17	57-9590	Seal - Oil	1
†18	59-0730	Pin - Bearing Stop	4
19	71-6240	Screw - Hex. Flange Hd.	5
20	57-9740	Washer - Flat	2

Ref. No.	Part No.	Description	No. Used
†21	82-0480	Tube - Oil	1
22	82-0220	Valve - Intake	2
23	82-0230	Valve - Exhaust	2
†24	82-0080	Insert - Exhaust Valve (Std.)	2
*	82-0090	Insert - Exhaust Valve (.002" OS)	2
*	82-0100	Insert - Exhaust Valve (.005" OS)	2
*	82-0110	Insert - Exhaust Valve (.010" OS)	2
*	82-0120	Insert - Exhaust Valve (.025" OS)	2
†25	82-0160	Insert - Intake Valve (Std.)	2
*	82-0170	Insert - Intake Valve (.002" OS)	2
*	82-0180	Insert - Intake Valve (.005" OS)	2
*	82-0190	Insert - Intake Valve (.010" OS)	2
*	82-0200	Insert - Intake Valve (.025" OS)	2
†26	82-0140	Guide - Exhaust Valve	2
*	82-0150	Guide - Intake Valve	2
27	57-8250	Spring - Valve	4

*Not Illustrated

†Included in Short Block Assembly



T-1258

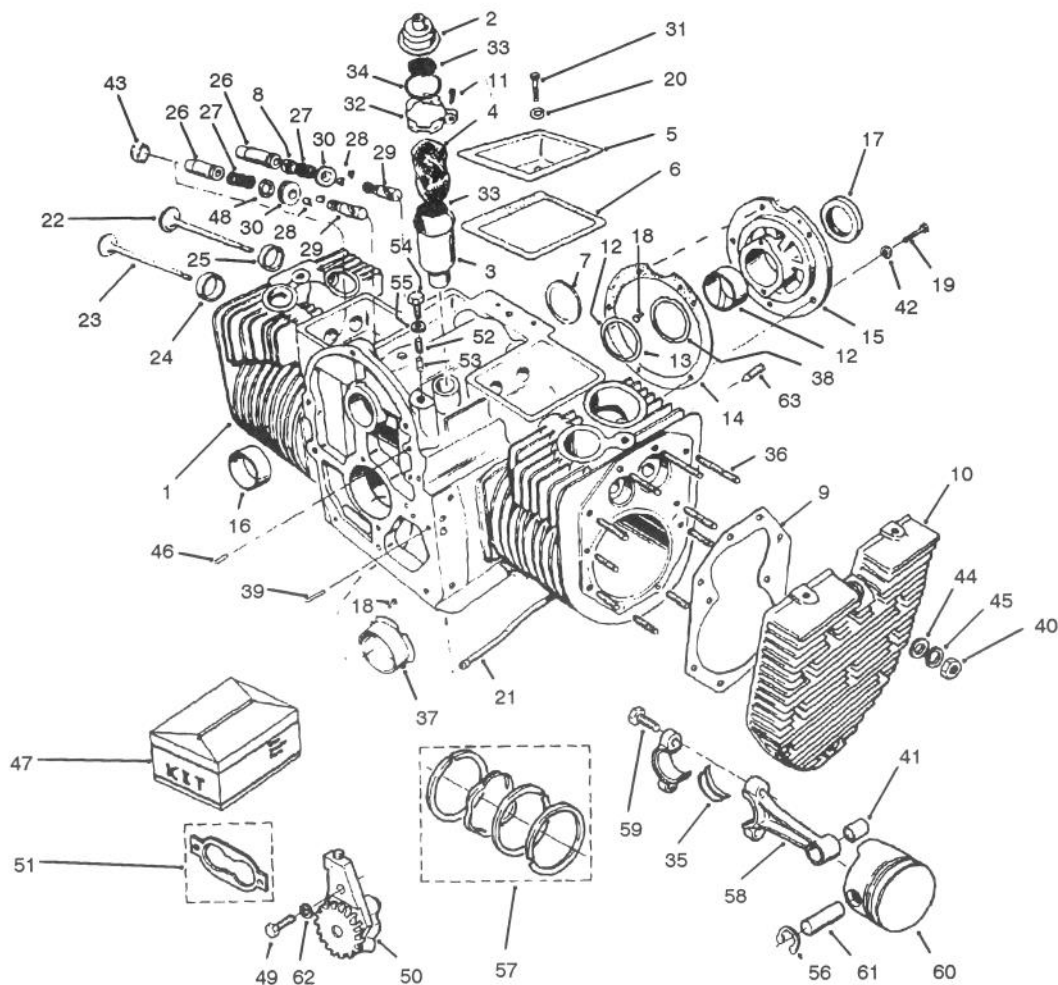
ENGINE CYLINDER BLOCK ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
28	82-0250	Lock - Valve Spring	8
29	57-8450	Tappet - Valve	4
30	57-8270	Rotator - Valve	2
31	321-11	Screw - Cap Hex. Hd.	2
32	82-0530	Clamp - Breather Tube	1
33	82-0560	Screen - Breather Tube	2
34	82-0570	Seal - O-Ring	1
35	82-0420	Bearing Half - Rod (Std.)	4
*	82-0430	Bearing Half - Rod (.002" US)	4
*	82-0440	Bearing Half - Rod (.010" US)	4
*	82-0450	Bearing Half - Rod (.020" US)	4
*	82-0460	Bearing Half - Rod (.030" US)	4
†36	82-1250	Stud - Cylinder Head Btm.	8
*	82-1230	Stud - Cylinder Head Top	4
*	82-1240	Stud - Cylinder Head Mid.	8

Ref. No.	Part No.	Description	No. Used
†37	57-8020	Bearing - Flanged (Std.)	1
*	57-9360	Bearing - Flanged (.002" US)	1
*	57-8030	Bearing - Flanged (.010" US)	1
*	57-9800	Bearing - Flanged (.020" US)	1
*	59-0010	Bearing - Flanged (.030" US)	1
†38	57-8170	Shim - Crankshaft	A/R
†39	59-0750	Pin - Alignment	2
40	82-0040	Nut - Hex.	20
41	82-0410	Bushing - Piston Pin	2
42	82-1310	Washer - Flat	5
43	82-0240	Cap - Exhaust Valve	2
44	82-1300	Washer - Flat	20
45	82-1650	Washer - Lock	24
46	59-0760	Plug - Hole	1
47	82-0950	Gasket Kit (Engine)	1
48	82-0070	Washer - Spring Retainer	2
49	321-6	Screw - Cap Hex. Hd.	2
50	57-8480	Oil Pump Assembly	1
51	57-8460	Gasket Kit - Oil Pump	1
52	57-8500	Spring - Bypass Valve	1
53	57-8470	Plunger - Bypass Valve	1
54	59-0910	Screw - Cap Hex. Hd.	1

*Not Illustrated

†Included in Short Block Assembly



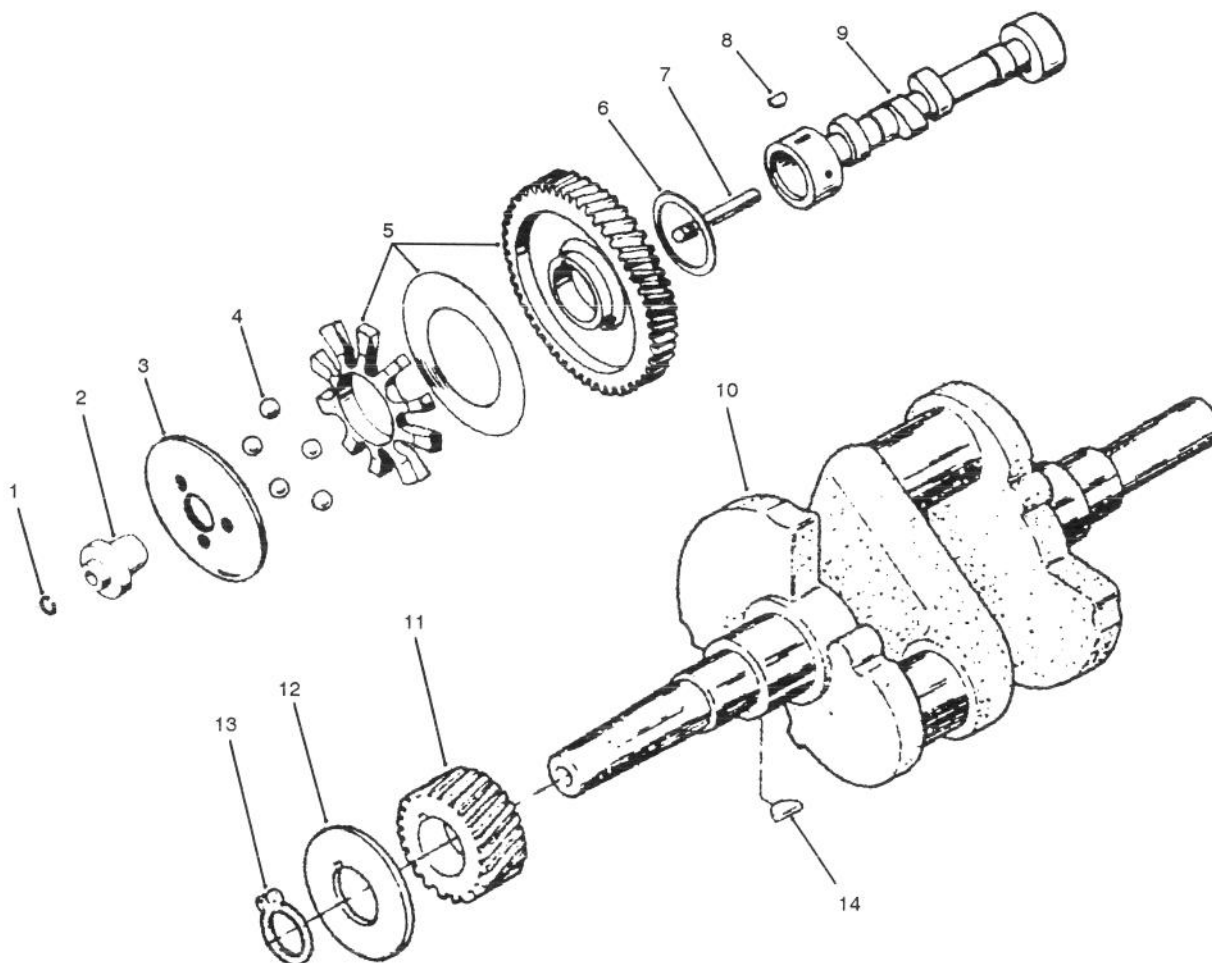
T-1258

ENGINE CYLINDER BLOCK ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
55	57-9760	Washer - Flat	1
56	82-1200	Ring - Retaining	4
57	82-0360	Piston Ring Set (Std.)	1
*	82-0370	Piston Ring Set (.005" OS)	1
*	82-0380	Piston Ring Set (.010" OS)	1
*	82-0390	Piston Ring Set (.020" OS)	1
*	82-0400	Piston Ring Set (.030" OS)	1
58	82-0470	Connecting Rod Assembly (Incl. Ref. #41 & 59)	2
59	82-1470	Bolt - Connecting Rod	4

Ref. No.	Part No.	Description	No. Used
60	82-0300	Piston Assy. (Std.) (Incl. Ref. #56 & 61)	2
*	82-0310	Piston Assy. (.005" OS) (Incl. Ref. #56 & 61)	2
*	82-0320	Piston Assy. (.010" OS) (Incl. Ref. #56 & 61)	2
*	82-0330	Piston Assy. (.020" OS) (Incl. Ref. #56 & 61)	2
*	82-0340	Piston Assy. (.030" OS) (Incl. Ref. #56 & 61)	2
61	82-0290	Pin - Piston	2
62	82-1620	Washer - Lock	2
63	3247-4	Screw - Set	4
*	59-0770	Breather Hole Plug	1

*Not Illustrated

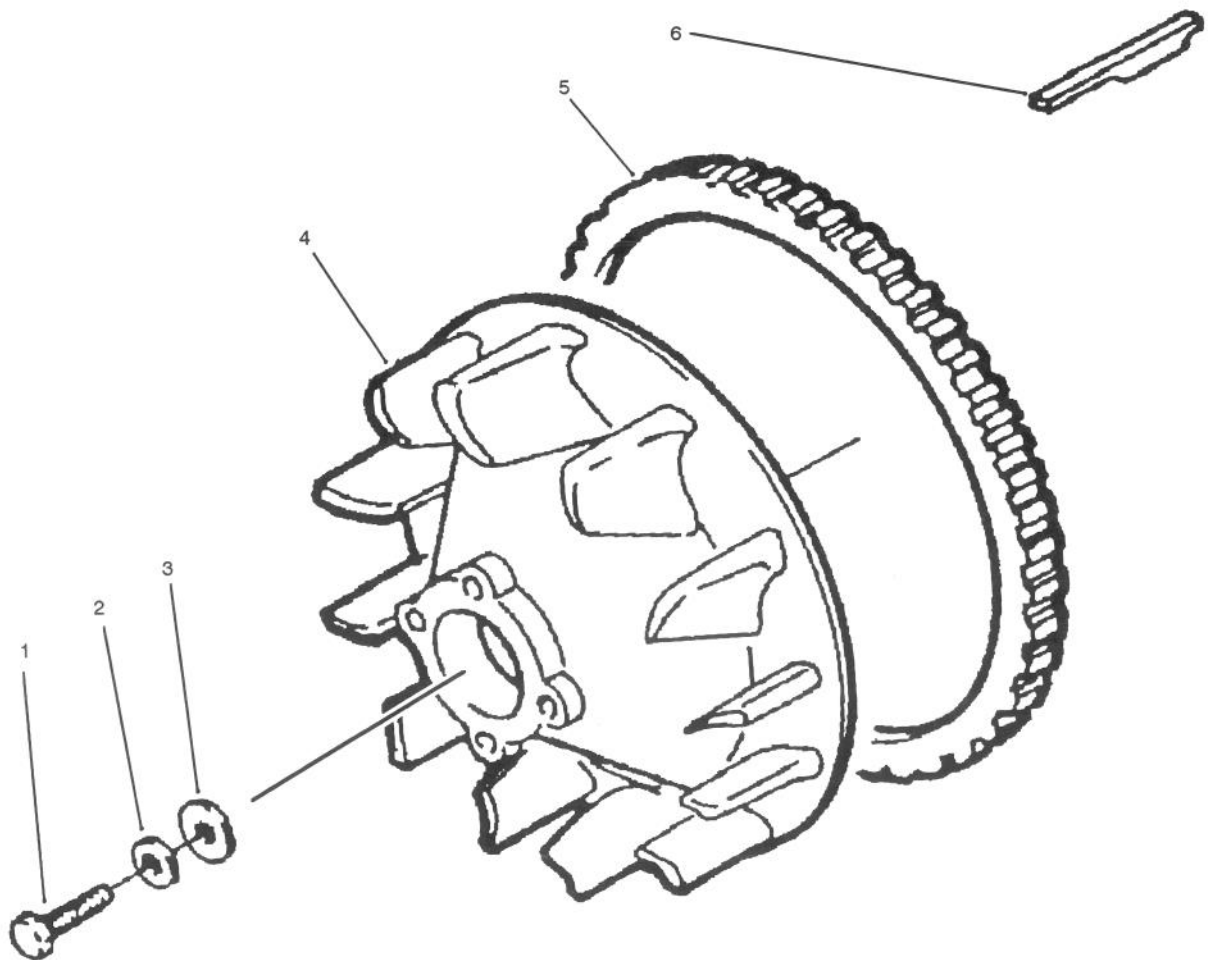


T-1259

ENGINE CAMSHAFT & CRANKSHAFT ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	57-9090	Ring - Retaining	1
2	57-9130	Hub - Governor Cup	1
3	59-0450	Cup - Governor	1
4	57-9640	Ball - Governor	5
5	57-8210	Camshaft Gear Assembly	1
6	57-8230	Washer - Thrust	1
7	59-0400	Pin - Center	1
8	57-9660	Key - Woodruff	1

Ref. No.	Part No.	Description	No. Used
9	82-0880	Camshaft (Incl. Ref. #7)	1
10	82-0060	Crankshaft	1
11	57-8130	Gear - Crankshaft	1
12	57-8140	Washer - Gear Retaining	1
13	57-9710	Ring - Retaining	1
14	57-9660	Key - Crankshaft Gear	1

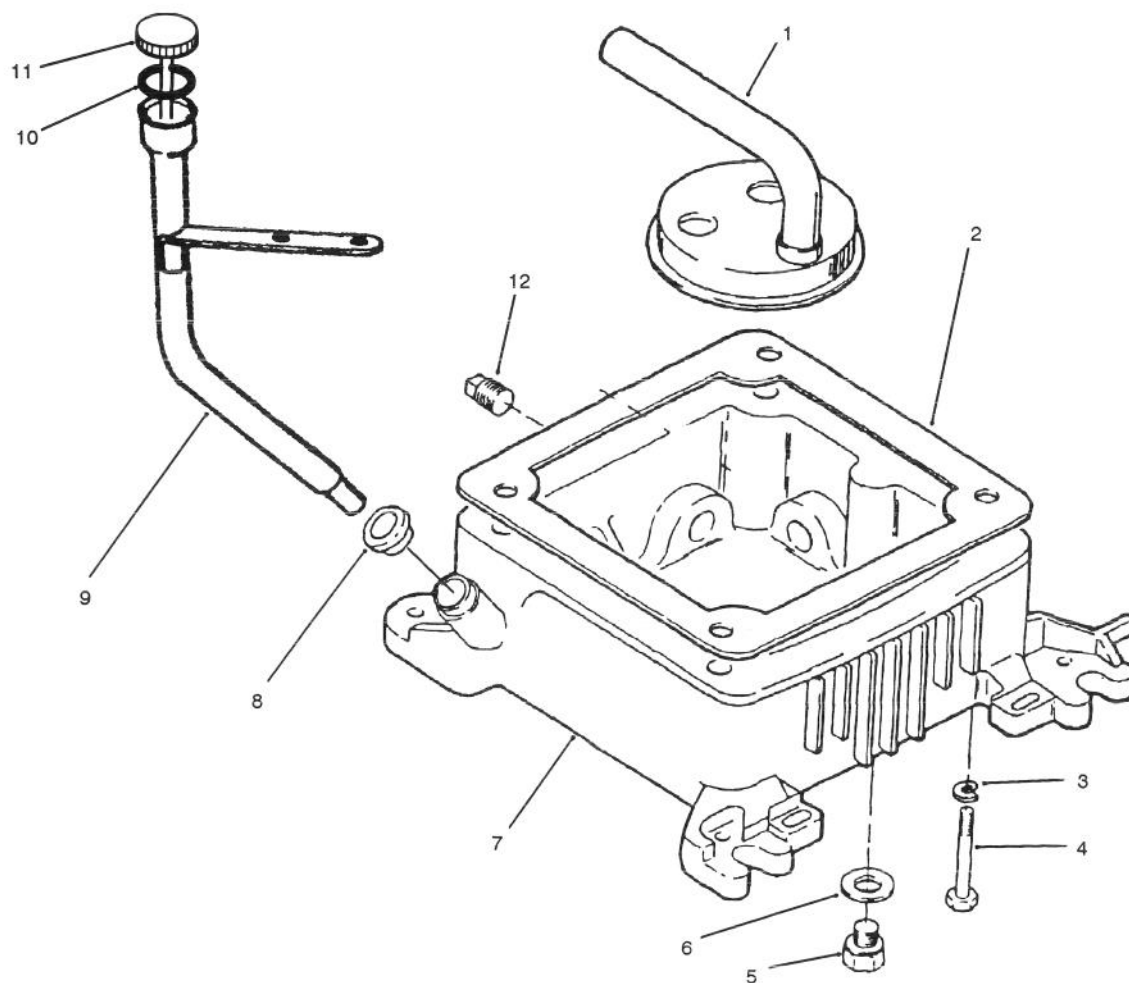


T-1260

ENGINE FLYWHEEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	57-8150	Screw - Cap Hex. Hd.	1
2	82-1320	Washer - Flat	1
3	59-0810	Washer - Flat	1

Ref. No.	Part No.	Description	No. Used
4	82-0610	Flywheel (Incl. Ref. #5)	1
5	57-8180	Gear - Ring	1
6	71-6190	Key - Flywheel	1

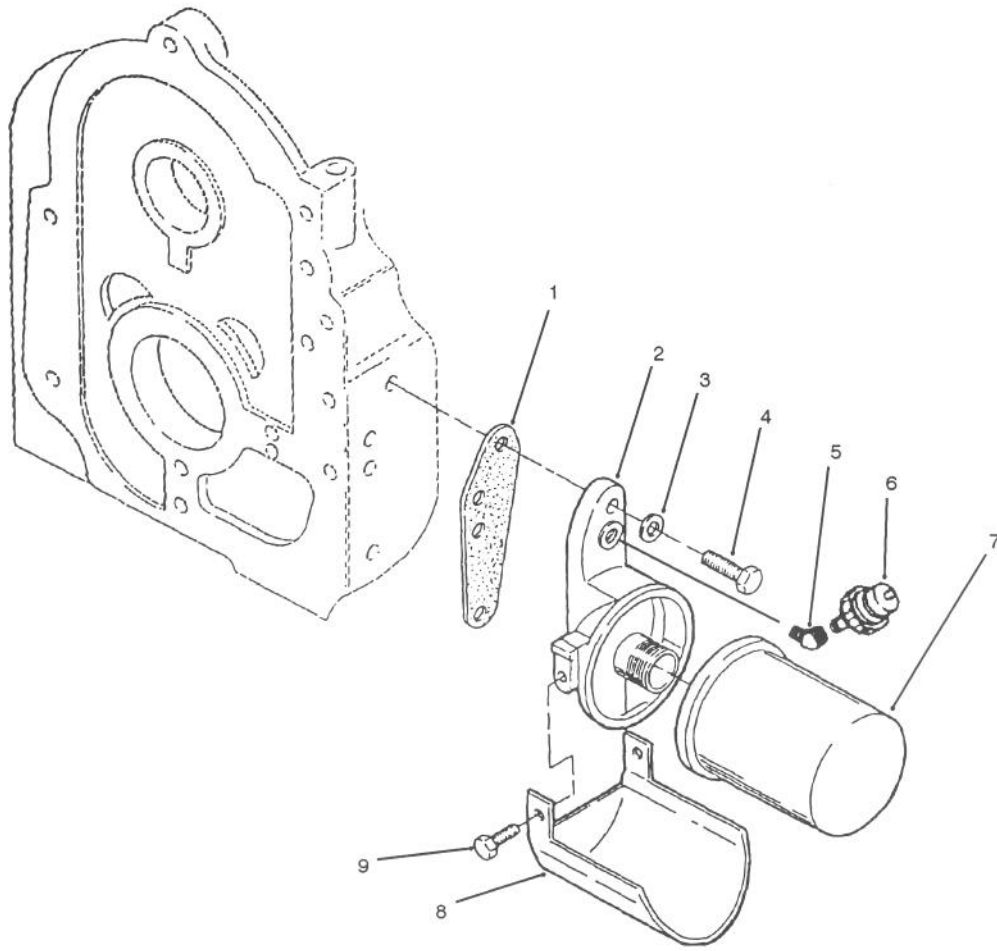


T-1261

ENGINE OIL BASE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	82-0490	Cup - Oil Pump Intake	1
2	82-0900	Gasket - Oil Base	1
3	82-1310	Washer - Flat	4
4	323-25	Screw - Cap Hex. Hd.	4
5	281-2	Plug - Hex. Hd.	1
6	57-8070	Gasket - Plug	1
7	82-0030	Oil Base Assembly (Incl. Ref. #2, 5, 6 & 12)	1

Ref. No.	Part No.	Description	No. Used
8	71-6170	Seal - Oil Fill Tube	1
9	82-0580	Tube - Oil Fill	1
10	57-9610	Seal - O-Ring	1
11	82-0590	Dipstick Assembly (Incl. Ref. #10)	1
12	82-1130	Plug - Pipe	1

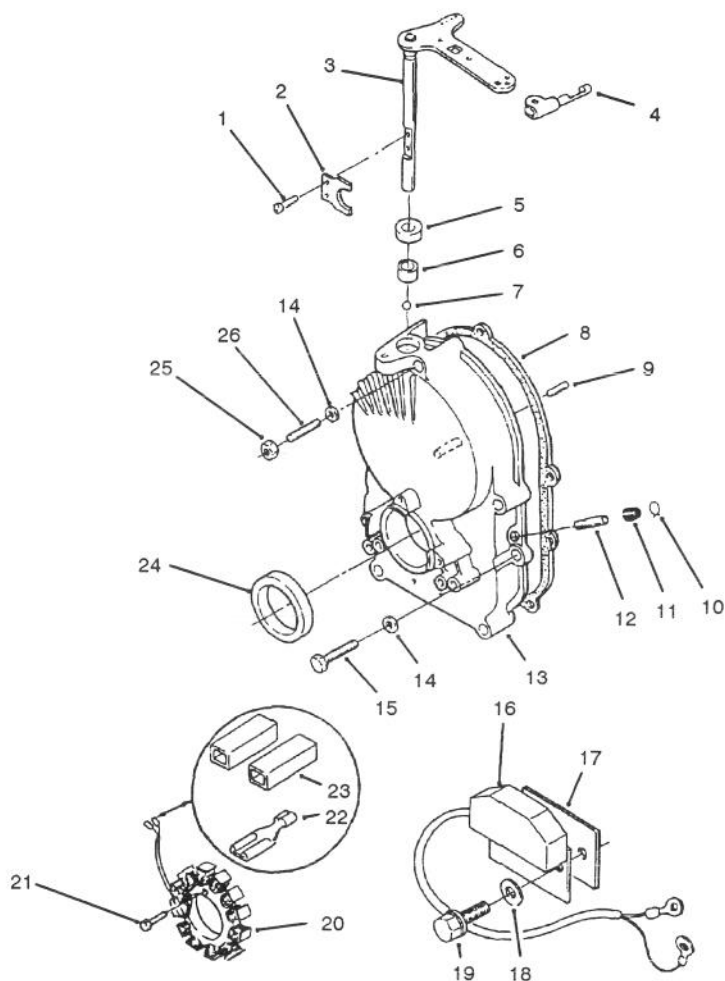


T-1262

ENGINE OIL FILTER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	82-0520	Gasket - Oil Filter Adaptor	1
2	82-0500	Adaptor - Oil Filter	1
3	57-9750	Washer - Flat	2
4	322-5	Screw - Cap Hex. Hd.	2
5	59-0640	Fitting - 45° Elbow	1

Ref. No.	Part No.	Description	No. Used
6	57-9490	Switch - Low Oil Pressure	1
7	57-8530	Filter - Oil	1
8	82-0510	Drain - Oil Filter	1
9	82-1510	Screw - Cap Hex. Hd.	2

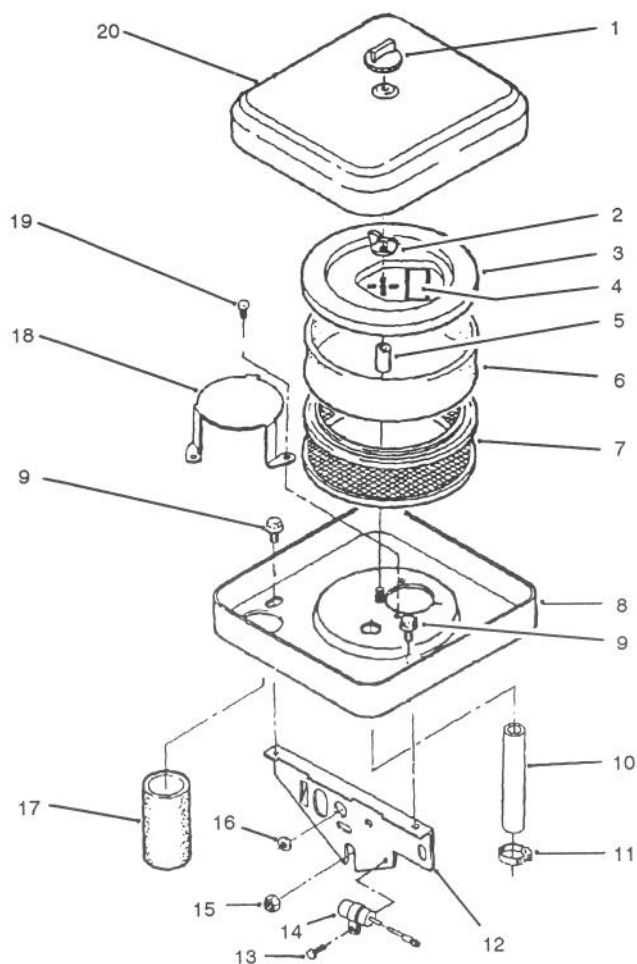


T-1263

ENGINE IGNITION CONTROL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	59-0950	Screw - Pan Hd.	2
2	59-0420	Yoke - Governor Shaft	1
3	59-0440	Shaft/Arm - Governor	1
4	57-9730	Clip - Retaining	1
5	57-9500	Seal - Governor Shaft	1
6	57-9650	Bearing - Governor Shaft	1
7	57-9630	Ball - Governor Shaft	1
8	82-0910	Gasket - Gear Case	1
9	59-0740	Pin - Dowel	1
10	57-9550	Clamp - Cap	1
11	59-0370	Cap - Vacuum Port	1
12	59-0360	Tube - Vacuum Port	1
13	71-6350	Gear Case Assembly (Incl. Ref. #1-3, 5-7, 9-12 & 24)	1

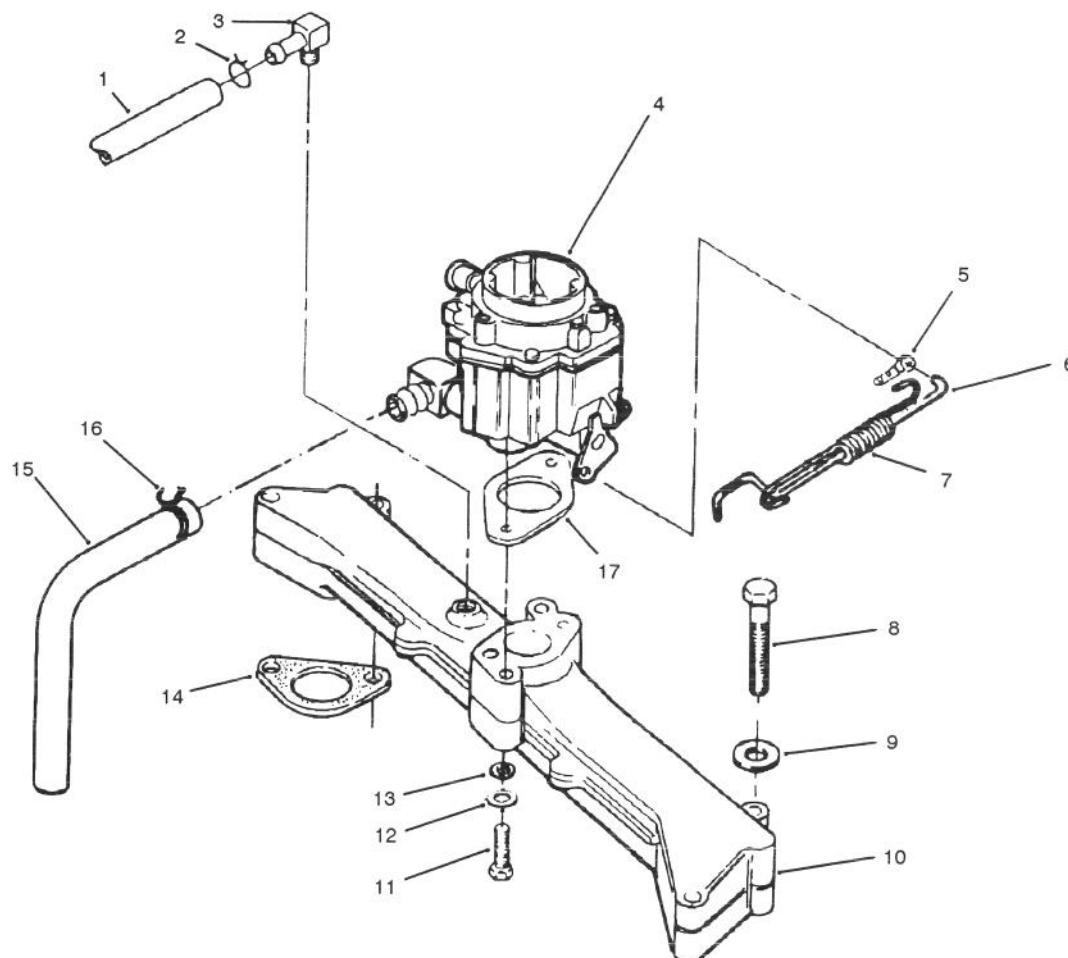
Ref. No.	Part No.	Description	No. Used
14	57-9750	Washer - Flat	5
15	322-9	Screw - Cap Hex. Hd.	4
16	71-6380	Control - Ignition	1
17	71-6410	Insulator - Ignition Module	1
18	82-1660	Washer - Lock	2
19	71-6400	Screw - Hex. Washer Hd.	2
20	57-9440	Stator - 20 Amp.	1
21	71-6390	Screw - Hex. Hd.	3
22	59-0590	Terminal - Stator Leads	3
23	82-1000	Body - Terminal Connector	2
24	57-9580	Seal - Crankshaft	1
25	59-1130	Nut - Hex.	1
26	59-0790	Stud - Cover	1



T-1264

ENGINE AIR CLEANER ASSEMBLY

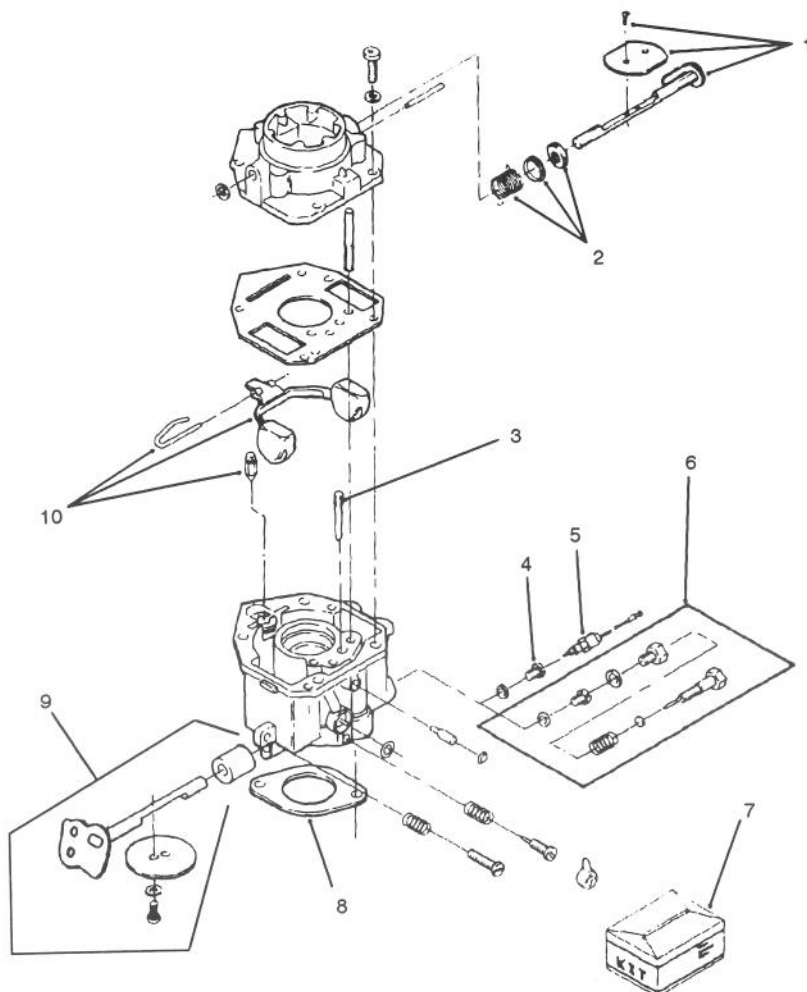
Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	82-1760	Knob	1	11	82-1090	Clamp - Hose	1
2	82-1670	Nut - Wing	1	12	82-0720	Support - Air Cleaner	1
3	82-0650	Cover - Inner	1	13	71-6450	Screw - Hex. Hd.	1
4	82-0010	Decal - Air Cleaner Maint.	1	14	59-1180	Condenser	1
5	82-0980	Spacer/Seal	1	15	82-1690	Nut - Hex. Washer Hd.	1
6	82-0670	Wrapper - Element	1	16	71-6140	Grommet - Rubber	1
7	82-0660	Element - Air Cleaner	1	17	82-0700	Tube - Air Intake	1
8	82-0710	Housing - Air Cleaner	1	18	82-0730	Plate - Air Deflector	1
9	82-1550	Screw - Tapping	2	19	82-1770	Screw - Hex. Washer Hd.	3
10	82-1120	Hose - Breather	1	20	82-0690	Cover - Air Cleaner	1



T-1265

ENGINE FUEL SYSTEM ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	82-1120	Hose - Breather	1	9	82-1310	Washer - Flat	4
2	82-1090	Clamp - Hose	1	10	82-0670	Manifold - Intake	1
3	82-1070	Fitting - 90° Elbow	1	11	322-12	Screw - Cap Hex. Hd.	2
4	82-0770	Carburetor Assembly (Incl. Ref. #17)	1	12	82-1350	Washer - Flat	2
5	57-9700	Clip - Retaining	1	13	82-1340	Washer - Flat	2
6	82-0840	Rod - Governor Control	1	14	82-0860	Gasket - Manifold	2
7	82-1740	Spring - Governor Rod	1	15	82-1100	Hose - Fuel (Cut to 15")	1
8	323-14	Screw - Cap Hex. Hd.	4	16	82-1080	Clamp - Hose	2
				17	82-0850	Gasket - Carburetor	1



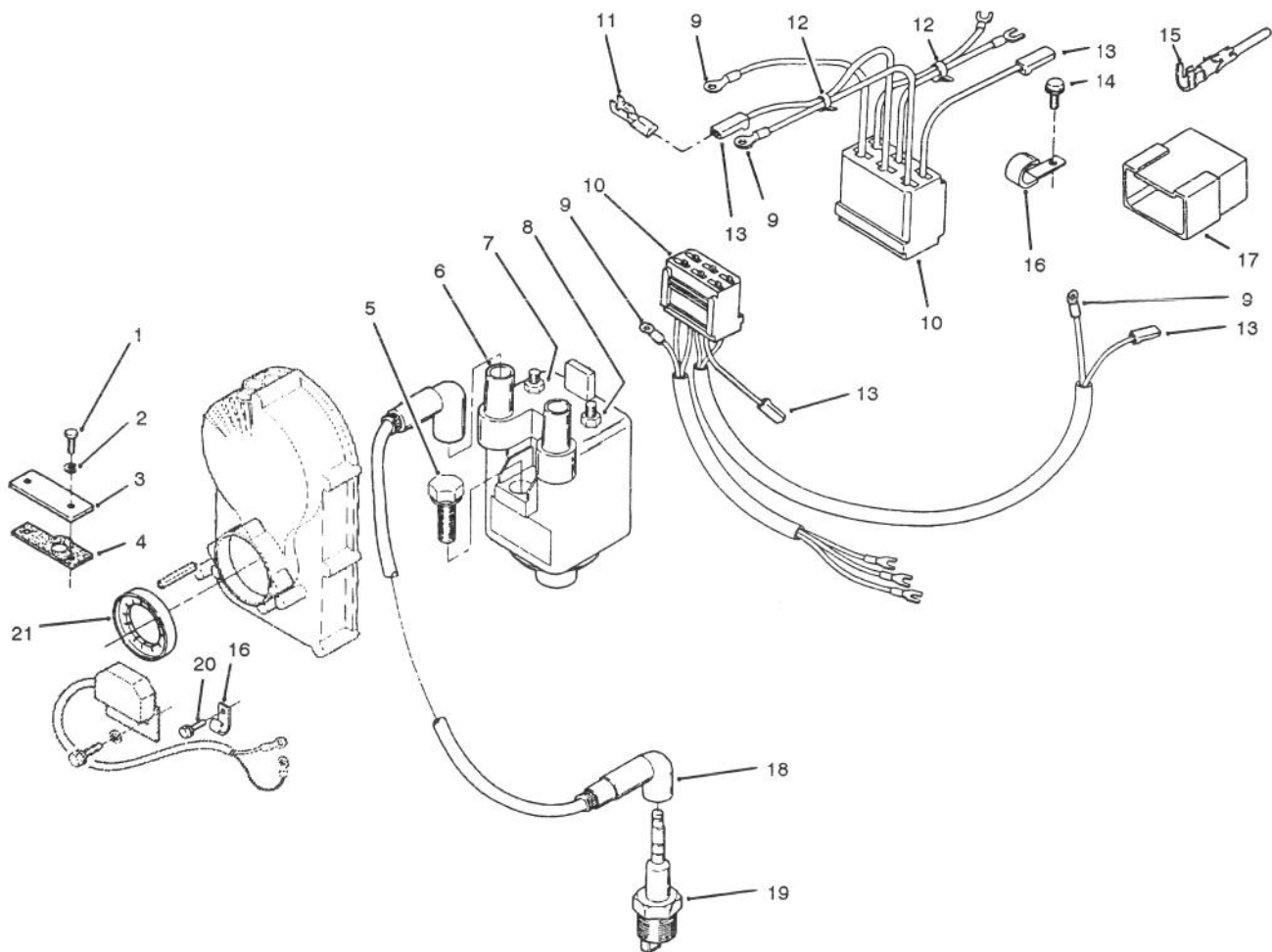
T-1266

ENGINE CARBURETOR ASSEMBLY NO. 82-0770

Ref. No.	Part No.	Description	No. Used
1	72-3860	Kit - Choke Shaft	1
2	72-3870	Kit - Choke Lever	1
3	82-0750	Jet - Idle	1
4	82-0790	Jet - Power (Std.)	1
5	82-0800	Solenoid - Fuel Shut-Off	1
6	82-0740	Kit - Jet (High Altitude Application)	1

Ref. No.	Part No.	Description	No. Used
7	82-0780	Carburetor Repair Kit (Incl. Ref. #8 & 10)	1
8	82-0850	Gasket - Carburetor	1
*	82-0760	Gasket - Carburetor	1
9	82-0810	Kit - Throttle Shaft	1
10	62-2800	Float Assembly	1

*Not Illustrated



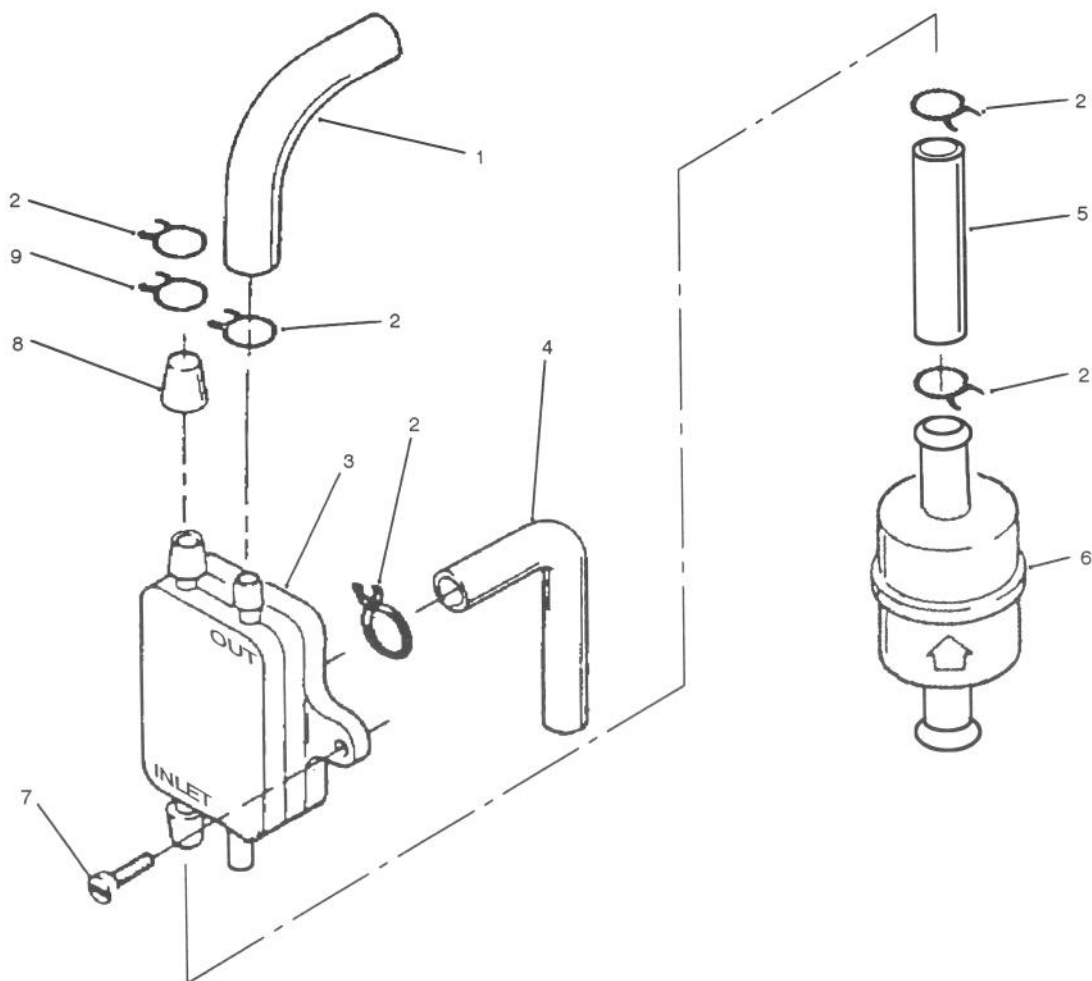
T-1267

ENGINE ELECTRONIC IGNITION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	321-3	Screw - Cap Hex. Hd.	2
2	82-1340	Washer - Flat	2
3	71-5990	Plate - Ignition Plunger	1
4	57-9260	Gasket - Plate	1
5	71-6460	Screw - Hex. Flange Hd.	2
6	71-6000	Coil - Ignition	1
7	71-6440	Nut - Hex. Flange	1
8	71-6430	Hut - Hex. Flange	1
9	72-3990	Terminal - Ring	4
10	82-1010	Housing - Receptacle	1
11	72-4000	Terminal - Receptacle	4
12	82-1020	Tie - Cable	2

Ref. No.	Part No.	Description	No. Used
13	72-4030	Housing - Connector	5
14	82-1540	Screw - Hex. Washer Hd.	1
15	72-4040	Terminal - 20 Amp.	6
16	71-6220	Clip - Wire	2
17	82-0990	Housing - Connector	1
18	71-6420	Cable - Spark Plug (9")	1
*	71-6020	Cable - Spark Plug (18.5")	1
19	57-9340	Plug - Spark	2
20	71-6450	Screw - Hex. Flange Hd.	1
21	71-6010	Rotor - Ignition	1
*	82-1050	Wire Harness Assembly (Incl. Ref. #9-15 & 17)	1

*Not Illustrated

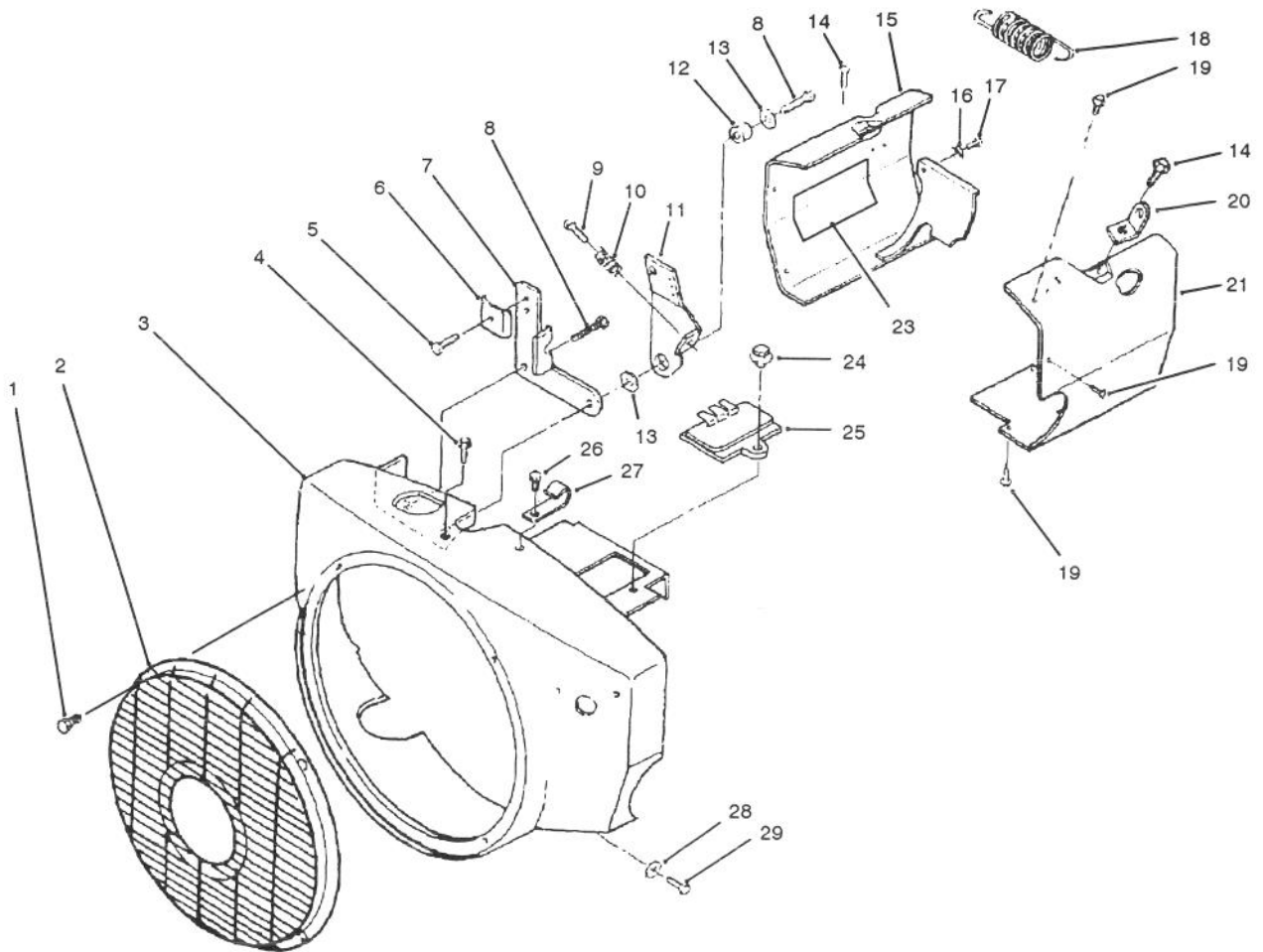


T-1268

ENGINE FUEL PUMP & FILTER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	82-1100	Hose - Fuel (Cut to 15")	1
2	82-1080	Clamp - Hose	6
3	57-9080	Pump - Fuel	1
4	71-6100	Line - Pulse (Cut to 7")	1
5	71-6100	Hose - Fuel (Cut to 5")	1

Ref. No.	Part No.	Description	No. Used
6	71-5960	Filter - Fuel	1
7	59-1050	Screw - Tapping Pan Hd.	2
8	59-0370	Fitting - Cap	1
9	57-9550	Clamp - Hose	1



T-1269

ENGINE HOUSING ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	82-1590	Screw - Pan Hd.	4
2	82-0620	Guard - Stationary	1
3	82-0630	Housing - Blower	1
4	59-1100	Screw - Hex. Washer Hd.	2
5	72-3900	Screw - Tapping	1
6	57-9190	Clamp - Cable	1
7	57-9150	Bracket - Cable	1
8	59-1010	Screw - Hex. Washer Hd.	2
9	59-1030	Screw - Tapping	1
10	59-0430	Spring - Idle Setting	1
11	57-9140	Arm - Governor Control	1
12	57-9120	Bushing - Control Arm	1
13	59-0830	Washer - Flat	2
14	82-1600	Screw - Hex. Washer Hd.	2
15	82-0600	Housing - Cylinder LH	1

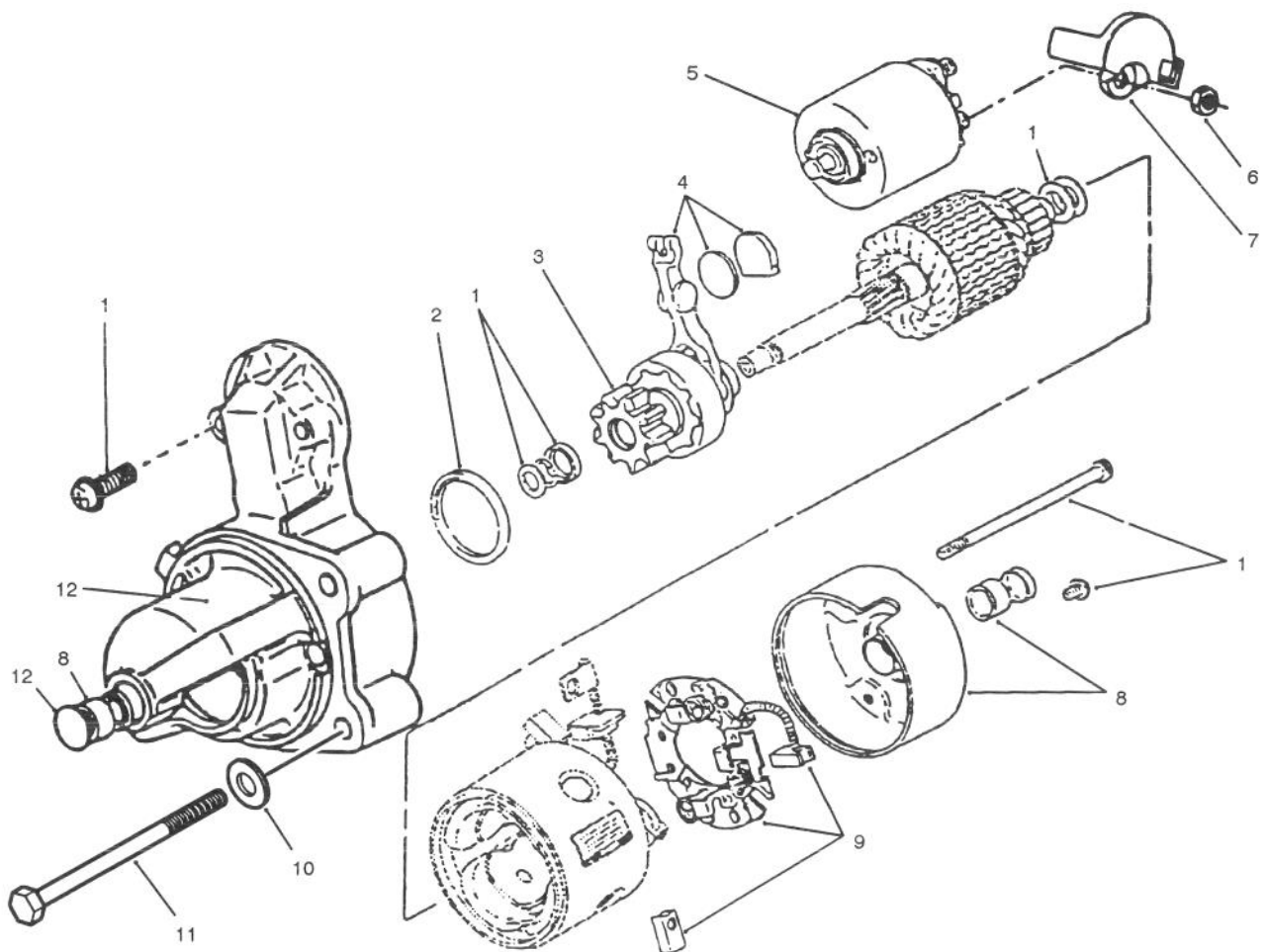
Ref. No.	Part No.	Description	No. Used
16	59-0830	Washer - Flat	2
17	59-0980	Screw - Tapping	2
18	57-9100	Spring - Governor	1
19	59-1080	Screw - Hex. Washer Hd.	4
20	71-6080	Bracket - Lifting	2
21	82-0640	Housing - Cylinder RH	1
23	82-1580	Decal - Head Bolt Torque	2
24	59-1080	Screw - Hex. Flange Hd.	1
25	71-6030	Regulator - Voltage (20 Amp.)	1
26	82-1540	Screw - Hex. Washer	1
27	71-6220	Clip - Wire	1
28	59-0820	Washer - Flat	4
29	82-1780	Screw - Hex. Washer Hd.	3



Ref. No.	Part No.	Description	No. Used
1	72-3890	Screw - Hex. Hd.	1
2	57-9170	Swivel - Choke Lever	1
3	59-0460	Lever - Choke	1
4	82-1660	Washer - Lock	1
5	59-0470	Bracket - Choke Cable	1
6	59-0850	Washer - Flat	2

Ref. No.	Part No.	Description	No. Used
7	59-0720	Pin - Cotter	1
8	72-3880	Screw - Hex. Washer Hd.	1
9	57-9190	Clip - Choke Cable	1
10	72-3900	Screw - Hex. Washer Hd.	1
11	57-9180	Link - Choke	1
12	59-1020	Screw - Shoulder	1

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ENGINE STARTER ASSEMBLY NO. 71-6040

Ref. No.	Part No.	Description	No. Used
1	62-2760	Starter Hardware Kit	1
2	72-3950	Dust Seal Kit	1
3	72-3940	Starter Clutch Kit	1
4	62-2770	Starter Shift Lever Kit	1
5	72-3930	Starter Solenoid Kit	1
6	82-1730	Nut - Hex.	1
7	82-1720	Cap - Solenoid	1

Ref. No.	Part No.	Description	No. Used
8	62-2730	Starter Bushing Kit	1
9	62-2740	Starter Brush Kit	1
10	57-9770	Washer - Mounting Screw	2
11	322-22	Screw - Mounting	2
12	62-2750	Brush Mounting Kit	1
*	71-6040	Starter Assembly (Incl. Ref. #1-10)	1

*Not Illustrated

INTERNATIONAL DECAL CROSS REFERENCE

JAPANESE DECAL KIT NO. 83-6310

DESCRIPTION	LOCATION	PART NUMBER	
		ENGLISH	JAPANESE
Panel Control	Tiller Arm	80-9240	83-6090
Decal Instruction	Tiller Arm	80-8020	83-6060
Decal Parking Brake	Tiller Arm	80-8070	83-6120
Decal Danger	Tiller Frame	72-4080	83-6010
Decal Warning	Main Frame	80-8090	83-6050
Decal Filter	Main Frame	86-8180	86-8200
Panel Engine Control	Control Panel	80-8110	83-6100
Plate Engine Control	Control Panel	N/A	80-9530
Panel Control	Control Panel	80-8150	83-6080
Plate Hot Surface	Muffler Guard	80-8290	83-6130
Plate Hot Surface	Exhaust Pipe Guards	80-9350	83-6140
Decal Warning	Drive Shield	80-8000	83-6070
Decal Warning	Drive Shield	80-8040	83-6030
Decal Danger	Pump Mount	80-8760	83-6040
Decal Danger	Accumulator	80-8030	83-6020
Decal Warning	Accumulator	80-8880	83-6110
Decal Warning	Lift Actuator	80-8010	83-6150

SWEDISH DECAL KIT NO. 83-6320

DESCRIPTION	LOCATION	PART NUMBER	
		ENGLISH	SWEDISH
Panel Control	Tiller Arm	80-9240	83-5500
Decal Instruction	Tiller Arm	80-8020	83-5430
Decal Parking Brake	Tiller Arm	80-8070	83-5460
Decal Danger	Tiller Frame	72-4080	83-5410
Decal Warning	Main Frame	80-8090	83-5540
Decal Filter	Main Frame	86-8180	86-8210
Panel Engine Control	Control Panel	80-8110	83-5530
Plate Engine Control	Control Panel	N/A	80-9530
Panel Control	Control Panel	80-8150	83-5510
Plate Hot Surface	Muffler Guard	80-8290	83-5470
Plate Hot Surface	Exhaust Pipe Guards	80-9350	83-5490
Decal Warning	Drive Shield	80-8000	83-5420
Decal Warning	Drive Shield	80-8040	83-5450
Decal Danger	Pump Mount	80-8760	83-5550
Decal Danger	Accumulator	80-8030	83-5440
Decal Warning	Accumulator	80-8880	83-5520
Decal Warning	Lift Actuator	80-8010	83-5480

INTERNATIONAL DECAL CROSS REFERENCE (Cont.)

ITALIAN DECAL KIT NO. 83-6330

DESCRIPTION	LOCATION	PART NUMBER	
		ENGLISH	ITALIAN
Panel Control	Tiller Arm	80-9240	83-5640
Decal Instruction	Tiller Arm	80-8020	83-5690
Decal Parking Brake	Tiller Arm	80-8070	83-5680
Decal Danger	Tiller Frame	72-4080	83-5560
Decal Warning	Main Frame	80-8090	83-5620
Decal Filter	Main Frame	86-8180	86-8220
Panel Engine Control	Control Panel	80-8110	83-5670
Plate Engine Control	Control Panel	N/A	80-9530
Panel Control	Control Panel	80-8150	83-5610
Plate Hot Surface	Muffler Guard	80-8290	83-5650
Plate Hot Surface	Exhaust Pipe Guards	80-9350	83-5660
Decal Warning	Drive Shield	80-8000	83-5570
Decal Warning	Drive Shield	80-8040	83-5600
Decal Danger	Pump Mount	80-8760	83-5700
Decal Danger	Accumulator	80-8030	83-5590
Decal Warning	Accumulator	80-8880	83-5630
Decal Warning	Lift Actuator	80-8010	83-5580

GERMAN DECAL KIT NO. 83-6340

DESCRIPTION	LOCATION	PART NUMBER	
		ENGLISH	GERMAN
Panel Control	Tiller Arm	80-9240	83-5820
Decal Instruction	Tiller Arm	80-8020	83-5850
Decal Parking Brake	Tiller Arm	80-8070	83-5790
Decal Danger	Tiller Frame	72-4080	83-5710
Decal Warning	Main Frame	80-8090	83-5780
Decal Filter	Main Frame	86-8180	86-8230
Panel Engine Control	Control Panel	80-8110	83-5830
Plate Engine Control	Control Panel	N/A	80-9530
Panel Control	Control Panel	80-8150	83-5840
Plate Hot Surface	Muffler Guard	80-8290	83-5760
Plate Hot Surface	Exhaust Pipe Guards	80-9350	83-5770
Decal Warning	Drive Shield	80-8000	83-5720
Decal Warning	Drive Shield	80-8040	83-5730
Decal Danger	Pump Mount	80-8760	83-5810
Decal Danger	Accumulator	80-8030	83-5800
Decal Warning	Accumulator	80-8880	83-5740
Decal Warning	Lift Actuator	80-8010	83-5750

INTERNATIONAL DECAL CROSS REFERENCE (Cont.)

SPANISH DECAL KIT NO. 83-6350

DESCRIPTION	LOCATION	PART NUMBER	
		ENGLISH	SPANISH
Panel Control	Tiller Arm	80-9240	83-5980
Decal Instruction	Tiller Arm	80-8020	83-5900
Decal Parking Brake	Tiller Arm	80-8070	83-5970
Decal Danger	Tiller Frame	72-4080	83-5860
Decal Warning	Main Frame	80-8090	83-5870
Decal Filter	Main Frame	86-8180	86-8240
Panel Engine Control	Control Panel	80-8110	83-5960
Plate Engine Control	Control Panel	N/A	80-9530
Panel Control	Control Panel	80-8150	83-6000
Plate Hot Surface	Muffler Guard	80-8290	83-5930
Plate Hot Surface	Exhaust Pipe Guards	80-9350	83-5940
Decal Warning	Drive Shield	80-8000	83-5920
Decal Warning	Drive Shield	80-8040	83-5890
Decal Danger	Pump Mount	80-8760	83-5990
Decal Danger	Accumulator	80-8030	83-5910
Decal Warning	Accumulator	80-8880	83-5880
Decal Warning	Lift Actuator	80-8010	83-5950

FRENCH DECAL KIT NO. 83-6360

DESCRIPTION	LOCATION	PART NUMBER	
		ENGLISH	FRENCH
Panel Control	Tiller Arm	80-9240	83-6280
Decal Instruction	Tiller Arm	80-8020	83-6180
Decal Parking Brake	Tiller Arm	80-8070	83-6290
Decal Danger	Tiller Frame	72-4080	83-6160
Decal Warning	Main Frame	80-8090	83-6190
Decal Filter	Main Frame	86-8180	86-8250
Panel Engine Control	Control Panel	80-8110	83-6270
Plate Engine Control	Control Panel	N/A	80-9530
Panel Control	Control Panel	80-8150	83-6260
Plate Hot Surface	Muffler Guard	80-8290	83-6230
Plate Hot Surface	Exhaust Pipe Guards	80-9350	83-6240
Decal Warning	Drive Shield	80-8000	83-6250
Decal Warning	Drive Shield	80-8040	83-6210
Decal Danger	Pump Mount	80-8760	83-6300
Decal Danger	Accumulator	80-8030	83-6170
Decal Warning	Accumulator	80-8880	83-6200
Decal Warning	Lift Actuator	80-8010	83-6220

TORO PART NUMBER INDEX

Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
3-6498	Washer - Thrust	17 12 1	57-9090	Ring - Retaining	32 1 1
3-6781	Washer - Thrust	28 17 2	57-9100	Spring - Governor	42 18 1
7-0238	Key - Clutch	13 4 1	57-9120	Bushing - Control Arm	42 12 1
10-6820	Hub & Drum Assembly	3 18 1	57-9130	Hub - Governor Cup	32 2 1
10-6830	Stud - Drive	26 20 8	57-9140	Arm - Governor Control	42 11 1
10-6830	Stud - Drive	3 25 4	57-9150	Bracket - Cable	42 7 1
10-6830	Stud - Drive	2 32 3	57-9170	Swivel - Choke Lever	43 2 1
10-6870	Hub - Wheel	3 19 1	57-9180	Link - Choke	43 11 1
11-9030	Screw - Shoulder	1 25 1	57-9190	Clamp - Cable	42 6 1
14-4189	Tank - Fuel	5 4 1	57-9190	Clip - Choke Cable	43 9 1
14-5169	Shield - Drive	13 19 1	57-9260	Gasket - Plate	40 4 1
14-5179	Arm - Steering	3 37 1	57-9340	Plug - Spark	40 19 2
14-5189	Frame	8 4 1	57-9360	Bearing - Flanged	30 * 1
14-5199	Cover - Control	1 6 1	57-9440	Stator - 20 Amp.	36 20 1
14-5209	Mount - Pump	17 6 1	57-9490	Switch - Low Oil Pressure	35 6 1
14-5219	Lift Actuator Assembly	26 11 1	57-9500	Seal - Governor Shaft	36 5 1
14-5229	Guard - Muffler	12 11 1	57-9550	Clamp - Cap	36 10 1
14-5239	Guard - Muffler L.H.	12 19 1	57-9550	Clamp - Hose	41 9 1
14-5249	Guard - Muffler R.H.	12 * 1	57-9580	Seal - Crankshaft	36 24 1
14-5259	Valve Assembly	10 36 1	57-9590	Seal - Oil	29 17 1
14-5289	Head - Pump	20 2 1	57-9610	Seal - O-Ring	34 10 1
14-5289	Head - Pump	22 11 1	57-9630	Ball - Governor Shaft	36 7 1
14-5299	Pump Crankcase Assembly	20 1 1	57-9640	Ball - Governor	32 4 5
14-5299	Water Pump Crankcase	21 * 1	57-9650	Bearing - Governor Shaft	36 6 1
14-7449	Body - Valve	25 8 1	57-9660	Key - Crankshaft Gear	32 14 1
26-3790	Nut - Spindle	3 22 1	57-9660	Key - Woodruff	32 8 1
27-2360	Switch - Ignition	10 41 1	57-9700	Clip - Retaining	38 5 1
28-3680	Tire	3 20 1	57-9710	Ring - Retaining	32 13 1
28-3680	Tire	26 22 2	57-9730	Clip - Retaining	36 4 1
29-6162	Switch - Micro	17 31 2	57-9740	Washer - Flat	29 20 2
40-8200	Switch - Micro	2 34 1	57-9750	Washer - Flat	35 3 2
42-3560	Bolt - Shoulder	20 12 1	57-9750	Washer - Flat	36 14 5
42-3560	Bolt - Shoulder	11 28 2	57-9760	Washer - Flat	31 55 1
44-8320	Spring - Compression	14 2 3	57-9770	Washer - Mounting Screw	44 10 2
47-2961	Hose - Fuel	5 9 1	57-9800	Bearing - Flanged	30 * 1
47-2961	Hose - Fuel	12 30 1	59-0010	Bearing - Flanged	30 * 1
52-5980	Spacer	12 36 2	59-0020	Bearing - Crank (.002 US)	29 * 1
54-0100	Head - Oil Filter	10 24 1	59-0030	Bearing - Crank (.020 US)	29 * 1
56-2230	Hose - Fuel	5 43 1	59-0040	Bearing - Crank (.030 US)	29 * 1
56-2520	Valve - Fuel Shut-Off	5 7 1	59-0360	Tube - Vacuum Port	36 12 1
57-8000	Bearing - Camshaft	29 16 2	59-0370	Cap - Vacuum Port	36 11 1
57-8010	Gasket - Bearing Plate	29 14 1	59-0370	Fitting - Cap	41 8 1
57-8020	Bearing - Flanged (Std.)	30 37 1	59-0400	Pin - Center	32 7 1
57-8030	Bearing - Flanged	30 * 1	59-0420	Yoke - Governor Shaft	36 2 1
57-8050	Bearing - Crank (Std.)	29 12 1	59-0430	Spring - Idle Setting	42 10 1
57-8060	Bearing - Crank (.010 US)	29 * 1	59-0440	Shaft/Arm - Governor	36 3 1
57-8070	Gasket - Plug	34 6 1	59-0450	Cup - Governor	32 3 1
57-8130	Gear - Crankshaft	32 11 1	59-0460	Lever - Choke	43 3 1
57-8140	Washer - Gear Retaining	32 12 1	59-0470	Bracket - Choke Cable	43 5 1
57-8150	Screw - Cap Hex. Hd.	33 1 1	59-0590	Terminal - Stator Leads	36 22 3
57-8160	Washer - Thrust	29 13 2	59-0640	Fitting - 45° Elbow	35 5 1
57-8170	Shim - Crankshaft	30 38 A/R	59-0720	Pin - Cotter	43 7 1
57-8180	Gear - Ring	33 5 1	59-0730	Pin - Bearing Stop	29 18 4
57-8210	Camshaft Gear Assembly	32 5 1	59-0740	Pin - Dowel	36 9 1
57-8230	Washer - Thrust	32 6 1	59-0750	Pin - Alignment	30 39 2
57-8250	Spring - Valve	29 27 4	59-0760	Plug - Hole	30 46 1
57-8270	Rotator - Valve	30 30 2	59-0770	Breather Hole Plug	31 * 1
57-8450	Tappet - Valve	30 29 4	59-0790	Stud - Cover	36 26 1
57-8460	Gasket Kit - Oil Pump	30 51 1	59-0810	Washer - Flat	33 3 1
57-8470	Plunger - Bypass Valve	30 53 1	59-0820	Washer - Flat	42 28 4
57-8480	Oil Pump Assembly	30 50 1	59-0830	Washer - Flat	42 13 2
57-8500	Spring - Bypass Valve	30 52 1	59-0830	Washer - Flat	42 16 2
57-8530	Filter - Oil	35 7 1	59-0850	Washer - Flat	43 6 2
57-8580	Baffle - Breather Tube	29 4 1	59-0910	Screw - Cap Hex. Hd.	30 54 1
57-9080	Pump - Fuel	41 3 1	59-0950	Screw - Pan Hd.	36 1 2

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

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Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
59-0980	Screw - Tapping	42 17 2	71-6190	Key - Flywheel	33 6 1
59-1010	Screw - Hex. Washer Hd.	42 8 2	71-6220	Clip - Wire	40 16 2
59-1020	Screw - Shoulder	43 12 1	71-6220	Clip - Wire	42 27 1
59-1030	Screw - Tapping	42 9 1	71-6240	Screw - Hex. Flange Hd.	29 19 5
59-1050	Screw - Tapping Pan Hd.	41 7 2	71-6350	Gear Case Assembly	36 13 1
59-1080	Screw - Hex. Flange Hd.	42 24 1	71-6380	Control - Ignition	36 16 1
59-1080	Screw - Hex. Washer Hd.	42 19 4	71-6390	Screw - Hex. Hd.	36 21 3
59-1100	Screw - Hex. Washer Hd.	42 4 2	71-6400	Screw - Hex. Washer Hd.	36 19 2
59-1130	Nut - Hex.	36 25 1	71-6410	Insulator - Ignition Module	36 17 1
59-1180	Condenser	37 14 1	71-6420	Cable - Spark Plug (9)	40 18 1
61-1990	Washer - Steering	8 6 1	71-6430	Hut - Hex. Flange	40 8 1
62-2730	Starter Bushing Kit	44 8 1	71-6440	Nut - Hex. Flange	40 7 1
62-2740	Starter Brush Kit	44 9 1	71-6450	Screw - Hex. Flange Hd.	40 20 1
62-2750	Brush Mounting Kit	44 12 1	71-6450	Screw - Hex. Hd.	37 13 1
62-2760	Starter Hardware Kit	44 1 1	71-6460	Screw - Hex. Flange Hd.	40 5 2
62-2770	Starter Shift Lever Kit	44 4 1	72-3860	Kit - Choke Shaft	39 1 1
62-2800	Float Assembly	39 10 1	72-3870	Kit - Choke Lever	39 2 1
63-8360	Key - Ignition	10 9 1	72-3880	Screw - Hex. Washer Hd.	43 8 1
63-8410	Washer	5 35 4	72-3890	Screw - Hex. Hd.	43 1 1
65-4500	Seal - Snap Ring	4 14 1	72-3900	Screw - Hex. Washer Hd.	43 10 1
65-4550	Valve - Check Ball	4 6 2	72-3900	Screw - Tapping	42 5 1
65-4560	Plug - Hex. Hollow	4 3 1	72-3930	Starter Solenoid Kit	44 5 1
65-4570	Seal - Square Ring	4 4 2	72-3940	Starter Clutch Kit	44 3 1
65-4600	Washer - Thrust	4 19 2	72-3950	Dust Seal Kit	44 2 1
65-4610	Bearing - Thrust	4 20 1	72-3990	Terminal - Ring	40 9 4
65-4620	Seal - O-Ring	4 12 1	72-4000	Terminal - Receptacle	40 11 4
65-4640	Key - Square	3 7 1	72-4030	Housing - Connector	40 13 5
65-4640	Key - Square	4 11 1	72-4040	Terminal - 20 Amp.	40 15 6
65-8970	Knob	11 3 1	72-4080	Decal - Danger (English)	3 38 1
65-8970	Knob	1 20 1	72-4310	Switch - Ball N.C.	26 36 1
66-2490	Clamp - Battery	12 2 1	72-4320	Switch - Ball N.O.	26 37 1
66-2910	Bumper - Rubber	12 23 1	74-0720	Tube - Manual	2 49 1
66-2950	Hourmeter	10 11 1	76-2350	Seal & Retainer Assembly	4 * 1
66-4160	Spring - Extension	11 29 1	76-2360	Body Seal Kit	4 * 1
66-5293	Motor - Hydraulic	3 6 1	76-8640	Stud	17 15 1
67-7050	Field Rotor Assembly	14 1 1	80-5080	Support - Manifold	23 26 1
67-7100	Plate - Brake	14 3 1	80-5120	Arm - Lift	26 33 2
67-7130	Diode	9 1 1	80-5140	Lever - Lift	26 12 1
67-7310	Decal - TORO	8 21 1	80-5200	End Cap - Roller	28 2 4
67-8110	Element - Oil Filter	10 27 1	80-5240	Housing - Gear Box	15 3 1
69-1170	Glass - Sight	15 28 1	80-5260	Cover - Gear Box	15 5 1
70-1480	Relay	10 29 5	80-5280	Gear	15 22 1
70-8170	Ring - Snap	4 21 1	80-5300	Housing - Gear/Cam Brng.	15 19 1
70-8631	Cap - Fuel	5 5 1	80-5320	Housing - Pinion Bearing	15 17 1
70-9840	Shoe - Brake	3 17 2	80-5330	Sleeve - Follower	15 2 1
70-9850	Clip - Retaining	3 8 1	80-5380	Manifold	23 27 1
70-9860	Pivot - Brake	3 26 1	80-5400	Engine	12 40 1
70-9870	Plate - Brake	3 13 1	80-5430	Clutch - Water Pump	13 2 1
70-9880	Spring - Brake	3 16 2	80-5450	Hydraulic Pump Assembly	17 48 1
71-0820	Mount - Motor	3 36 1	80-5460	Body & Bearing Assembly	4 9 1
71-1500	Brake Assembly	3 * 1	80-5470	Cover & Bearing Assembly	4 2 1
71-4170	Switch - Toggle	2 52 1	80-5480	Screw - Cap Hex. Hd.	4 1 8
71-5960	Filter - Fuel	41 6 1	80-5490	IGR Assembly	4 5 1
71-5960	Filter - Fuel	12 28 1	80-5500	Shaft	4 10 1
71-5990	Plate - Ignition Plunger	40 3 1	80-5520	Cover Tube Assembly	27 11 1
71-6000	Coil - Ignition	40 6 1	80-5530	Clutch Assembly	27 4 1
71-6010	Rotor - Ignition	40 21 1	80-5540	Motor Assembly	27 10 1
71-6020	Cable - Spark Plug (18.5)	40 * 1	80-5550	Seal Kit	27 * 1
71-6030	Regulator - Voltage	42 25 1	80-5560	Flange Bearing Assembly	26 34 2
71-6040	Starter Assembly	44 * 1	80-5570	Retainer - Valve Spring	25 15 1
71-6080	Bracket - Lifting	42 20 2	80-5580	Follower - Cam	23 18 1
71-6100	Hose - Fuel (Cut to 5)	41 5 1	80-5590	Pilot - Gear Box	25 18 1
71-6100	Line - Pulse (Cut to 7)	41 4 1	80-5600	Spool - Valve	25 1 1
71-6140	Grommet - Rubber	37 16 1	80-5610	Seat - Valve	25 2 1
71-6170	Seal - Oil Fill Tube	34 8 1	80-5630	Valve - Check	22 9 6

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
80-5640	Gauge - Pressure	10 5 1	80-6513	Hose - Water	7 13 1
80-5650	Muffler	12 7 1	80-6521	Hose - Gage	22 17 1
80-5680	Hood	8 17 1	80-6521	Hose - Gage	25 34 1
80-5710	Shaft - Lift	26 19 1	80-6522	Hose - Water	7 14 1
80-5720	Retainer - Seal	22 2 3	80-6540	Tube - Limit	26 2 1
80-5730	Ring - Head Back-Up	22 6 3	80-6580	Hub Assembly	26 21 2
80-5730	Ring - Head Back-Up	25 30 1	80-6600	Bracket - Spring	20 13 1
80-5740	Seal - Packing	25 29 1	80-6610	Spring - Extension	17 17 1
80-5740	Seal - Packing Vee	22 5 3	80-6620	Spring - Extension	20 10 1
80-5750	Support - Seal/Plunger	22 4 3	80-6630	Tube - Hydraulic	8 14 1
80-5751	Support - Seal/Plunger	25 28 1	80-6640	Tube - Hydraulic	8 13 1
80-5760	Seal - U-Cup	22 3 3	80-6650	Pulley - Water Pump	20 17 1
80-5760	Seal - U-Cup	25 26 1	80-6660	Collar - Taper Lock	20 19 1
80-5770	Spring - Compression	25 16 1	80-6670	Nozzle (#53) (Std.)	23 30 11
80-5780	Seal - O-Ring	25 3 1	80-6673	Nozzle (#46) (Opt.)	23 * 6
80-5780	Seal - O-Ring	23 39 1	80-6675	Nozzle (#56) (Opt.)	23 * 6
80-5781	Seal - Check Valve	22 10 6	80-6680	Washer	23 31 11
80-5782	Seal - O-Ring	23 16 2	80-6700	Electric Clutch Assembly	13 9 1
80-5782	Seal - O-Ring	22 20 1	80-6710	Armature & Hub Assembly	14 5 1
80-5782	Seal - O-Ring	25 38 1	80-6720	Belt - V	17 1 1
80-5784	Seal - O-Ring	23 6 2	80-6730	Belt - V	20 18 2
80-5784	Seal - O-Ring	24 10 1	80-6740	Hose - Water	5 3 1
80-5786	Seal - O-Ring	23 37 11	80-6750	Lever - Brake	1 21 1
80-5791	Seal - O-Ring	22 8 6	80-6790	Battery	12 1 1
80-5791	Seal - O-Ring	23 28 2	80-6800	Handle	1 30 1
80-5793	Seal - O-Ring	23 4 2	80-6900	Bracket - Switch	2 33 1
80-5794	Seal - O-Ring	23 2 1	80-6920	Bracket - Clutch Retainer	13 39 2
80-5794	Seal - O-Ring	22 12 1	80-6930	Adapter - Clutch	13 10 1
80-5800	Connecting Rod Assembly	21 10 3	80-6950	Shaft - Coupler	13 15 1
80-5810	Washer - Lock	21 22 6	80-6980	Latch Assembly	8 34 2
80-5820	Screw - Socket Hd.	21 21 6	80-6990	Washer - Thrust	28 24 4
80-5830	Gasket	21 18 1	80-7000	Arm - Pivot	11 11 1
80-5840	Plug - Drain	21 17 1	80-7020	Fitting - Breather	15 6 1
80-5850	Gasket	21 6 2	80-7030	Shim - Pinion Bearing	15 16 1
80-5860	Glass - Sight	21 16 1	80-7031	Shim - Pinion Bearing	15 * 1
80-5870	Screw - Socket Hd.	21 15 6	80-7032	Shim - Pinion Bearing	15 * 1
80-5880	Cover - Crankcase	21 19 1	80-7033	Shim - Pinion Bearing	15 * 1
80-5890	Gasket - Crankcase Cover	21 20 1	80-7040	Shim - Gear/Cam Bearing	15 20 1
80-5900	Seal - Crankshaft	21 14 2	80-7041	Shim - Gear/Cam Bearing	15 * 1
80-5910	Bearing - Roller	21 13 2	80-7042	Shim - Gear/Cam Bearing	15 * 1
80-5920	Key - Collar	20 20 1	80-7043	Shim - Gear/Cam Bearing	15 * 1
80-5920	Key - Crankshaft	21 12 1	80-7050	Shim - Gear Box	25 36 2
80-5930	Crankshaft	21 11 1	80-7051	Shim - Gear Box	25 * 2
80-5940	Rod - Plunger	21 9 3	80-7052	Shim - Gear Box	25 * 2
80-5950	Protector - Shaft	21 8 1	80-7053	Shim - Gear Box	25 * 2
80-5960	Housing - Bearing (Thru)	21 1	80-7060	Shaft - Override	2 45 1
80-5970	Seal - O-Ring	21 31 2	80-7070	Relief Valve Assembly	23 14 1
80-5990	Dipstick - Oil	21 5 1	80-7080	Housing	2 40 1
80-6000	Guide - Plunger	21 3 3	80-7110	Handle - Traction Control	1 16 1
80-6010	Plunger Seal Kit	21 34 1	80-7150	Spring - Compression	2 43 2
80-6020	Washer	21 32 8	80-7160	Arm - Traction	2 51 1
80-6030	Screw - Cap Hex. Hd.	21 33 8	80-7190	Shaft - Pivot	1 14 1
80-6040	Shim - Bearing Housing	21 2 2	80-7200	Spacer - Brake	1 18 1
80-6050	Sleeve Kit	25 * 1	80-7210	Cover - Lower	2 50 1
80-6050	Sleeve Kit (20mm)	21 * 3	80-7220	Stroke Control Cable Assy.	2 38 1
80-6060	Ring - Retaining	21 24 6	80-7220	Stroke Control Cable Assy.	17 45 1
80-6070	Pin - Connecting Rod	21 23 3	80-7230	Hub - Override	2 44 1
80-6090	Key - Pump	18 49 1	80-7270	Choke Control Assembly	10 1 1
80-6110	Charge Relief Valve Kit	19 * 1	80-7310	Breaker - Circuit	10 31 1
80-6120	Check Valve Kit	19 1 1	80-7320	Fitting - Adapter	17 40 1
80-6130	Overhaul Seal Kit	19 * 1	80-7330	Hose - Hydraulic	8 16 2
80-6140	Key - Clutch	13 1 1	80-7330	Hose - Hydraulic	17 24 2
80-6510	Hose - Water	7 6 1	80-7340	Hose - Water	7 9 3
80-6511	Hose - Water	7 5 1	80-7341	Hose - Water	7 10 4
80-6512	Hose - Water	7 1 1	80-7342	Hose - Water	7 7 1

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80-7344	Hose - Water	7 2 1	80-8470	Ring - Support	25 6 1
80-7346	Hose - Water	7 8 1	80-8480	Washer	25 23 1
80-7350	Hose - Hydraulic	17 28 1	80-8490	Washer - Back-Up	25 4 1
80-7360	Hose	15 35 1	80-8500	Cam	15 23 1
80-7360	Hose - Hydraulic	17 39 1	80-8510	Block - Weight	15 27 1
80-7370	Hose - Hydraulic	8 1 2	80-8530	Flange - Bearing	28 6 4
80-7370	Hose - Hydraulic	3 33 2	80-8550	Flange - Bearing	28 5 4
80-7400	Lever - Brake	3 12 1	80-8560	Washer	13 32 1
80-7430	Bracket - Idler	20 5 1	80-8570	Washer	13 18 1
80-7460	Support - Pump	18 55 1	80-8580	Guard - Belt	8 11 1
80-7540	Stop - Speed	11 9 1	80-8590	Element - Water Filter	5 26 1
80-7580	Rod - Speed Adjustment	11 14 2	80-8600	Water Filter Assembly	5 * 1
80-7590	Spacer	11 16 1	80-8610	Bracket - Filter	5 14 1
80-7600	Pin - Pivot	11 22 1	80-8620	Spacer - Coupler	13 12 8
80-7630	Neutral Lever Assembly	17 18 1	80-8630	Angle - Clutch	13 8 1
80-7660	Seal - Button	10 6 1	80-8650	Disc - Rubber	13 16 2
80-7670	Plate - Speed Control	11 5 1	80-8660	Spacer - Coupling	13 29 2
80-7680	Support - Muffler	12 16 2	80-8670	Spacer - Steering	3 3 1
80-7700	Bracket - Support	12 24 1	80-8680	Stud	23 20 2
80-7710	Sleeve - Idler Bracket	20 9 1	80-8680	Stud - Mounting	20 22 2
80-7730	Spacer	11 19 3	80-8690	Pin - Pivot	28 18 2
80-7770	Tab - Switch	17 9 1	80-8710	Plate - Side	28 21 2
80-7780	Keeper - Latch	8 24 2	80-8720	Stop - Roller	28 20 4
80-7790	Bracket - Alarm	1 11 1	80-8730	Shaft - Roller	28 3 2
80-7800	Lever - Pump	17 30 1	80-8740	Roller	28 1 2
80-7830	Arm - Pivot	11 23 1	80-8750	Control - Electric	10 32 1
80-7870	Spring - Extension	26 5 2	80-8760	Decal - Danger (English)	17 7 1
80-7880	Bolt - U	10 37 2	80-8790	Wire Harness - Control	9 * 1
80-7890	Spring - Compression	11 7 1	80-8880	Decal - Warning (English)	23 9 2
80-7900	Panel - Control	10 12 1	80-8880	Decal - Warning (English)	24 7 2
80-7960	Bracket - Return	26 9 1	80-8890	Mount - Valve	10 35 1
80-7970	Tube - Return	26 8 1	80-8930	Sump - Water Filter	5 41 1
80-8000	Decal - Warning (English)	13 20 1	80-8940	Valve - Bleed	5 42 1
80-8010	Decal - Warning (English)	26 10 1	80-8970	Cap - Valve	24 2 1
80-8010	Decal - Warning (English)	27 12 1	80-8980	Piston Assembly	24 8 1
80-8020	Decal - Instruction	2 56 1	80-8990	End Seal/Back-Up Ring Kit	24 4 1
80-8030	Decal - Danger (English)	23 8 2	80-9000	Valve - Gas	24 3 1
80-8030	Decal - Danger (English)	24 5 2	80-9020	Protector - Valve	24 1 1
80-8040	Decal - Warning (English)	13 22 1	80-9030	Cap - Gas End	24 12 1
80-8050	Decal - Hydroject 3000	8 36 2	80-9040	Cap - Water End	24 9 1
80-8070	Decal - Parking Brake	2 58 1	80-9050	Bracket - Nozzle Rear	8 27 3
80-8090	Decal - Warning (English)	8 32 3	80-9060	Bracket - Nozzle Front	8 31 3
80-8110	Panel - Engine Control	11 2 1	80-9080	Plate - Hinge	8 20 4
80-8150	Panel - Control (English)	11 31 1	80-9090	Plate - Back-Up	8 18 2
80-8170	Pulley - Hydraulic Pump	17 4 1	80-9150	Support - Muffler Shield	12 9 1
80-8180	Hub - Adapter	13 28 1	80-9170	Bracket - Pulley Guard	17 23 1
80-8210	Feeder - Manifold	23 38 1	80-9180	Shield - Manifold	28 10 2
80-8220	Cap - Check Valve	22 7 6	80-9190	Accumulator Assembly	23 7 1
80-8220	Plug	23 29 2	80-9200	Seal - Back-Up	25 19 1
80-8230	Plug	23 41 1	80-9220	Retainer - Seal	25 25 1
80-8260	Stud - Head	22 19 8	80-9230	Support - Wire	13 41 1
80-8260	Stud - Head	20 23 8	80-9240	Panel - Control (English)	1 3 1
80-8270	Bracket - Adjustment	26 4 1	80-9260	Plate - Back-Up	8 23 2
80-8280	Rod - Control	10 2 1	80-9270	Bracket - Switch	1 9 1
80-8290	Plate - Hot Surface	12 14 3	80-9280	Switch Assembly	1 8 2
80-8330	Pivot - Roller	28 16 2	80-9290	Button - Switch (Green)	1 5 1
80-8340	Shaft - Pinion	15 12 1	80-9300	Button - Push (Red)	2 57 1
80-8360	Pulley - Idler	20 4 1	80-9310	Spacer - Hinge	8 38 2
80-8370	Cable - Battery (Neg.)	12 39 1	80-9320	Clamp - Traction	17 35 1
80-8380	Cable - Battery (Pos.)	12 * 1	80-9330	Audio Alarm Assembly	1 12 1
80-8400	Lever - Speed Control	11 4 1	80-9350	Plate - Hot Surface	12 18 2
80-8430	Cable - Speed Control	11 26 1	80-9390	Guide - Valve	25 27 1
80-8440	Control - Throttle	10 19 1	80-9400	Fitting - Straight Bard	22 14 1
80-8450	Sleeve - Ceramic	25 7 1	80-9410	Fitting - Adapter	25 31 1
80-8460	Seal - O-Ring	25 5 1	80-9420	Housing - Bearing (Cap)	21 35 1

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80-9450	Decal - Crankcase	21 7 1	82-0300	Piston Assy. (Std.)	31 60 2
80-9450	Decal - Pump	20 27 1	82-0310	Piston Assy. (.005 OS)	31 * 2
80-9480	Retainer - Tube	22 16 1	82-0320	Piston Assy. (.010 OS)	31 * 2
80-9480	Tube - Retainer	25 33 1	82-0330	Piston Assy. (.020 OS)	31 * 2
80-9500	Adapter - Bulkhead	5 29 2	82-0340	Piston Assy. (.030 OS)	31 * 2
80-9510	Wrench - Water Filter	5 * 1	82-0360	Piston Ring Set (Std.)	31 57 1
80-9520	Pulley - Engine	13 3 1	82-0370	Piston Ring Set (.005 OS)	31 * 1
80-9540	Spacer	2 62 1	82-0380	Piston Ring Set (.010 OS)	31 * 1
80-9550	Bracket - Relay	10 44 1	82-0390	Piston Ring Set (.020 OS)	31 * 1
80-9560	Gasket - Pilot	25 35 1	82-0400	Piston Ring Set (.030 OS)	31 * 1
80-9580	Lever - Valve	10 42 1	82-0410	Bushing - Piston Pin	30 41 2
80-9600	Head - Water Filter	5 28 1	82-0420	Bearing Half - Rod (Std.)	30 35 4
80-9610	Bushing - Flange	20 8 2	82-0430	Bearing Half - Rod	30 * 4
80-9620	Wire Harness - Tiller	9 * 1	82-0440	Bearing Half - Rod	30 * 4
80-9630	Wire Harness - Main	9 * 1	82-0450	Bearing Half - Rod	30 * 4
80-9640	Kit - Seal	22 * 1	82-0460	Bearing Half - Rod	30 * 4
80-9650	Kit - Check Valve	22 * 1	82-0470	Connecting Rod Assembly	31 58 2
80-9660	Kit - Rebuild	25 * 1	82-0480	Tube - Oil	29 21 1
80-9710	Spring - Conical	23 32 11	82-0490	Cup - Oil Pump Intake	34 1 1
80-9720	Extension - Nozzle	23 36 11	82-0500	Adaptor - Oil Filter	35 2 1
80-9730	Guide - Cable	3 2 1	82-0510	Drain - Oil Filter	35 8 1
80-9740	Cable - Brake	3 10 1	82-0520	Gasket - Oil Filter Adaptor	35 1 1
80-9740	Cable - Brake	1 24 1	82-0530	Clamp - Breather Tube	30 32 1
80-9750	Valve - Bleed	25 11 1	82-0540	Tube - Breather	29 3 1
80-9760	Stop - Clutch	13 5 1	82-0550	Breather Cap & Valve	29 2 1
80-9780	Stop - Clutch	13 38 1	82-0560	Screen - Breather Tube	30 33 2
80-9790	Shaft - Steering Pivot	3 5 1	82-0570	Seal - O-Ring	30 34 1
80-9800	Flange - Nozzle	23 35 11	82-0580	Tube - Oil Fill	34 9 1
80-9830	Hose - Hydraulic	10 28 1	82-0590	Dipstick Assembly	34 11 1
80-9830	Tube - Hydraulic	10 26 1	82-0600	Housing - Cylinder LH	42 15 1
80-9840	Plate - Valve	4 7 1	82-0610	Flywheel	33 4 1
80-9850	Fitting - Brass	10 46 1	82-0620	Guard - Stationary	42 2 1
80-9890	Clamp - Valve	23 13 1	82-0630	Housing - Blower	42 3 1
80-9900	Fitting - Valve	23 15 1	82-0640	Housing - Cylinder RH	42 21 1
80-9940	Decal - Service Check	12 41 1	82-0650	Cover - Inner	37 3 1
80-9950	Decal - Quick Reference	12 42 1	82-0660	Element - Air Cleaner	37 7 1
80-9980	Fitting - Extension	23 3 1	82-0670	Manifold - Intake	38 10 1
82-0010	Decal - Air Cleaner Maint.	37 4 1	82-0670	Wrapper - Element	37 6 1
82-0020	Plate - Bearing Rear	29 15 1	82-0690	Cover - Air Cleaner	37 20 1
82-0030	Oil Base Assembly	34 7 1	82-0700	Tube - Air Intake	37 17 1
82-0040	Nut - Hex.	30 40 20	82-0710	Housing - Air Cleaner	37 8
82-0060	Crankshaft	32 10 1	82-0720	Support - Air Cleaner	37 12 1
82-0070	Washer - Spring Retainer	30 48 2	82-0730	Plate - Air Deflector	37 18 1
82-0080	Insert - Exhaust Valve	29 24 2	82-0740	Kit - Jet	39 6 1
82-0090	Insert - Exhaust Valve	29 * 2	82-0750	Jet - Idle	39 3 1
82-0100	Insert - Exhaust Valve	29 * 2	82-0760	Gasket - Carburetor	39 * 1
82-0110	Insert - Exhaust Valve	29 * 2	82-0770	Carburetor Assembly	38 4 1
82-0120	Insert - Exhaust Valve	29 * 2	82-0780	Carburetor Repair Kit	39 7 1
82-0130	Gasket - Cylinder Head	29 9 2	82-0790	Jet - Power (Std.)	39 4 1
82-0140	Guide - Exhaust Valve	29 26 2	82-0800	Solenoid - Fuel Shut-Off	39 5 1
82-0150	Guide - Intake Valve	29 * 2	82-0810	Kit - Throttle Shaft	39 9 1
82-0160	Insert - Intake Valve	29 25 2	82-0840	Rod - Governor Control	38 6 1
82-0170	Insert - Intake Valve	29 * 2	82-0850	Gasket - Carburetor	39 8 1
82-0180	Insert - Intake Valve	29 * 2	82-0850	Gasket - Carburetor	38 17 1
82-0190	Insert - Intake Valve	29 * 2	82-0860	Gasket - Manifold	38 14 2
82-0200	Insert - Intake Valve	29 * 2	82-0880	Camshaft	32 9 1
82-0210	Head - Cylinder	29 10 2	82-0900	Gasket - Oil Base	34 2 1
82-0220	Valve - Intake	29 22 2	82-0910	Gasket - Gear Case	36 8 1
82-0230	Valve - Exhaust	29 23 2	82-0950	Gasket Kit (Engine)	30 47 1
82-0240	Cap - Exhaust Valve	30 43 2	82-0960	Gasket Kit (Carbon Remove)	29 * 1
82-0250	Lock - Valve Spring	30 28 8	82-0980	Spacer/Seal	37 5 1
82-0260	Gasket - Valve Cover	29 6 2	82-0990	Housing - Connector	40 17 1
82-0270	Seal - Intake Valve	29 8 2	82-1000	Body - Terminal Connector	36 23 2
82-0280	Cover - Valve (Coil)	29 5 1	82-1010	Housing - Receptacle	40 10 1

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82-1050	Wire Harness Assembly	40 * 1	237-42	Seal - O-Ring	17 41 2
82-1070	Fitting - 90° Elbow	38 3 1	237-78	Seal - O-Ring	15 32 1
82-1080	Clamp - Hose	41 2 6	237-79	Seal - O-Ring	15 8 3
82-1080	Clamp - Hose	38 16 2	237-79	Seal - O-Ring	10 23 2
82-1090	Clamp - Hose	38 2 1	237-79	Seal - O-Ring	17 27 2
82-1090	Clamp - Hose	37 11 1	237-80	Seal - O-Ring	3 30 2
82-1100	Hose - Fuel (Cut to 15)	41 1 1	237-81	Seal - O-Ring	15 29 1
82-1100	Hose - Fuel (Cut to 15)	38 15 1	237-170	Seal - O-Ring	22 1 3
82-1120	Hose - Breather	38 1 1	237-171	Seal - Cover	15 4 1
82-1120	Hose - Breather	37 10 1	237-172	Seal - O-Ring	15 15 1
82-1130	Plug - Pipe	34 12 1	237-173	Seal - O-Ring	25 37 1
82-1180	Plug - Expansion	29 7 1	237-176	Seal - O-Ring	5 27 1
82-1200	Ring - Retaining	31 56 4	237-178	Seal - O-Ring	25 24 1
82-1230	Stud - Cylinder Head Top	30 * 4	240-3	Grommet	8 35 4
82-1240	Stud - Cylinder Head Mid.	30 * 8	240-11	Grommet	5 36 4
82-1250	Stud - Cylinder Head Btm.	30 36 8	240-12	Grommet	1 29 1
82-1300	Washer - Flat	30 44 20	240-14	Bumper	13 7 2
82-1310	Washer - Flat	34 3 4	241-119	Cap - Hub	26 26 2
82-1310	Washer - Flat	38 9 4	242-50	Nut - Lug	3 23 4
82-1310	Washer - Flat	30 42 5	242-50	Nut - Lug	26 24 8
82-1320	Washer - Flat	33 2 1	2411-34	Joint - Ball	17 43 1
82-1340	Washer - Flat	40 2 2	2411-34	Joint - Ball	2 46 1
82-1340	Washer - Flat	38 13 2	2411-50	Eye - Rod L.H. Thread	11 20 2
82-1350	Washer - Flat	38 12 2	2411-51	Eye - Rod R.H. Thread	11 13 2
82-1470	Bolt - Connecting Rod	31 59 4	2412-36	Clamp - Hose	5 44 2
82-1480	Screw - Tapping	29 11 1	2412-41	Clamp - R	5 10 2
82-1510	Screw - Cap Hex. Hd.	35 9 2	2412-71	Clamp - R	12 34 2
82-1520	Gasket - Muffler	12 27 2	2412-94	Clamp - R	2 36 1
82-1540	Screw - Hex. Washer	42 26 1	2412-108	Clamp - Hose	5 8 1
82-1540	Screw - Hex. Washer Hd.	40 14 1	2412-108	Clamp - Hose	12 29 1
82-1550	Screw - Tapping	37 9 2	2412-108	Clamp - Hose	15 34 1
82-1580	Decal - Head Bolt Torque	42 23 2	2412-108	Clamp - Hose	17 38 1
82-1590	Screw - Pan Hd.	42 1 4	2412-108	Clamp - Hose 3/4	7 12 20
82-1600	Screw - Hex. Washer Hd.	42 14 2	2412-120	Clamp - R	2 47 2
82-1620	Washer - Lock	31 62 2	2412-129	Clamp - Hose 3/8	7 11 8
82-1650	Washer - Lock	30 45 24	251-259	Bearing - Ball	17 20 2
82-1660	Washer - Lock	43 4 1	251-351	Bearing - Ball	28 25 4
82-1660	Washer - Lock	36 18 2	253-129	Seal - Bearing	26 32 2
82-1670	Nut - Wing	37 2 1	253-148	Seal - Input Shaft	15 36 1
82-1690	Nut - Hex. Washer Hd.	37 15 1	253-167	Seal - V	28 4 4
82-1710	Cover - Valve (Dipstick)	29 * 1	253-168	Seal - Oil	25 20 1
82-1720	Cap - Solenoid	44 7 1	254-61	Cup - Bearing	15 10 3
82-1730	Nut - Hex.	44 6 1	254-62	Cone - Bearing	15 11 3
82-1740	Spring - Governor Rod	38 7 1	254-67	Cup - Bearing	15 14 1
82-1750	Short Block Assembly	29 1 1	254-68	Cone - Bearing	15 13 1
82-1760	Knob	37 1 1	254-72	Cup Bearing	26 31 4
82-1770	Screw - Hex. Washer Hd.	37 19 3	254-94	Cone - Bearing	26 30 4
82-1780	Screw - Hex. Washer Hd.	42 29 3	255-12	Ball - Check	23 33 11
84-2000	Bracket - Brake Plate	3 29 1	255-13	Ball - Steel	25 39 1
86-8180	Decal - Filter (English)	8 39 2	256-90	Bushing - Sleeve	1 13 3
217-60	Rim - Wheel	3 21 1	256-113	Bushing - Flange	17 8 2
217-60	Rim - Wheel	26 23 2	256-116	Bushing - Flange	11 8 6
218-446	Nut - Lock	10 8 1	256-206	Bushing - Sleeve	1 19 1
218-447	Washer - Lock	10 7 1	256-245	Bushing - Flange	8 5 2
218-498	Nut - Locking	1 4 1	256-268	Bushing - Flange	26 1 2
232-27	Stem - Valve	3 24 1	256-315	Bushing - Sleeve	25 17 1
232-27	Stem - Valve	26 29 2	256-318	Bushing - Nyliner	28 15 4
233-17	Knob	10 3 1	281-2	Plug - Hex. Hd.	34 5 1
237-22	Seal - O-Ring	18 51 1	283-62	Pin - Clevis	3 11 1
237-25	Seal - O-Ring	15 21 1	283-67	Pin - Clevis	11 25 1
237-30	Seal - O-Ring	8 2 6	288-4	Cap - Drain	12 33 1
237-30	Seal - O-Ring	10 25 2	289-48	Nipple - Drain	12 32 1
237-30	Seal - O-Ring	17 25 2	2811-7	Fitting - Breather 90°	15 37 1
237-30	Seal - O-Ring	15 31 1	2811-10	Fitting - Drain 90°	12 31 1

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302-5	Fitting - Grease	17 11 1	3210-8	Screw - Cap Hex. Hd.	13 17 3
302-5	Fitting - Grease	8 37 1	3211-38	Screw - Cap Hex. Hd.	13 31 1
304-75	Fitting - Hydraulic 90°	17 37 1	3213-5	Screw - Cap Hex. Hd.	20 6 1
304-99	Fitting - 90° Elbow	15 33 1	3217-5	Nut - Lock	13 35 3
304-101	Fitting - Barb	22 15 1	3217-7	Nut - Lock	13 33 1
304-101	Fitting - Barb	25 32 1	3217-16	Nut - Hex.	2 55 4
321-3	Screw - Cap Hex. Hd.	40 1 2	3218-1	Nut - Jam	17 3 2
321-3	Screw - Cap Hex. Hd.	10 13 4	3219-20	Nut - Hex. (L.H. Thread)	11 35 2
321-3	Screw - Cap Hex. Hd.	13 40 1	3219-28	Nut - Hex.	22 18 8
321-4	Screw - Cap Hex. Hd.	3 15 4	3219-28	Nut - Lock	20 24 8
321-4	Screw - Cap Hex. Hd.	20 21 2	3220-1	Nut - Jam	2 39 2
321-4	Screw - Cap Hex. Hd.	8 30 6	3220-1	Nut - Jam	17 44 1
321-6	Screw - Cap Hex. Hd.	30 49 2	3220-2	Nut - Lock	10 43 2
321-10	Screw - Cap Hex. Hd.	17 29 2	3220-3	Nut - Jam	11 15 2
321-11	Screw - Cap Hex. Hd.	30 31 2	3220-6	Nut - Jam	17 19 2
321-28	Screw - Cap Hex. Hd.	8 22 2	3220-6	Nut - Jam	2 63 2
322-1	Screw - Cap Hex. Hd.	12 12 2	3220-23	Nut - Jam	25 22 1
322-3	Screw - Cap Hex. Hd.	11 6 2	3229-1	Bolt - Carriage	8 19 12
322-3	Screw - Cap Hex. Hd.	12 17 2	3229-1	Bolt - Carriage	1 27 1
322-4	Screw - Cap Hex. Hd.	12 8 2	3230-1	Bolt - Carriage	5 15 3
322-4	Screw - Cap Hex. Hd.	15 9 8	3230-8	Bolt - Carriage	28 22 4
322-4	Screw - Cap Hex. Hd.	13 11 2	3230-22	Bolt - Carriage	26 18 6
322-5	Screw - Cap Hex. Hd.	35 4 2	3234-4	Screw - Hex. Washer Hd.	8 28 6
322-5	Screw - Cap Hex. Hd.	18 52 1	3234-11	Screw - Hex. Washer Hd.	13 27 2
322-9	Screw - Cap Hex. Hd.	36 15 4	3234-14	Screw - Hex. Washer Hd.	28 13 2
322-12	Screw - Cap Hex. Hd.	38 11 2	3234-24	Screw - Hex. Flange Hd.	8 10 1
322-17	Screw - Cap Hex. Hd.	17 16 1	3234-24	Screw - Hex. Washer Hd.	28 12 10
322-22	Screw - Mounting	44 11 2	3234-24	Screw - Hex. Washer Hd.	13 26 2
323-2	Screw - Hex. Washer Hd.	28 9 6	3234-25	Screw - Hex. Washer Hd.	28 23 4
323-4	Screw - Cap Hex. Hd.	24 13 2	3234-35	Screw - Hex. Flange Hd.	23 34 22
323-4	Screw - Cap Hex. Hd.	11 30 2	3245-5	Screw - Set	17 2 2
323-4	Screw - Cap Hex. Hd.	13 37 1	3247-4	Screw - Set	31 63 4
323-5	Screw - Cap Hex. Hd.	15 18 8	3250-35	Screw	2 53 4
323-5	Screw - Cap Hex. Hd.	23 22 12	3250-39	Screw - Pan Hd.	12 22 1
323-5	Screw - Cap Hex. Hd.	5 34 4	3253-3	Washer - Lock	10 14 2
323-6	Screw - Cap Hex. Hd.	23 5 4	3253-3	Washer - Lock	13 36 3
323-6	Screw - Cap Hex. Hd.	13 6 2	3253-4	Washer - Lock	12 5 8
323-6	Screw - Cap Hex. Hd.	20 11 1	3253-4	Washer - Lock	18 53 3
323-6	Screw - Cap Hex. Hd.	10 21 3	3253-21	Washer - Lock	12 20 2
323-6	Screw - Cap Hex. Hd.	12 21 2	3253-21	Washer - Lock	20 25 1
323-6	Screw - Cap Hex. Hd.	18 58 4	3253-21	Washer - Lock	10 30 2
323-7	Screw - Cap Hex. Hd.	11 12 2	3253-21	Washer - Lock	13 34 1
323-7	Screw - Cap Hex. Hd.	26 17 3	3254-6	Washer - I.T.L.W.	28 26 6
323-9	Screw - Cap Hex. Hd.	12 4 1	3254-9	Washer - I.T.L.W.	2 54 4
323-12	Screw - Cap Hex. Hd.	20 7 1	3254-9	Washer - Lock	17 32 2
323-13	Screw - Cap Hex. Hd.	23 40 7	3255-9	Washer - E.T.L.W.	12 38 1
323-14	Screw - Cap Hex. Hd.	38 8 4	3256-2	Washer - Flat	2 42 4
323-14	Screw - Cap Hex. Hd.	11 17 1	3256-14	Washer - Flat	1 2 4
323-16	Screw - Cap Hex. Hd.	23 12 4	3256-14	Washer - Flat	11 32 8
323-19	Screw - Cap Hex. Hd.	12 37 4	3256-22	Washer - Flat	10 15 7
323-25	Screw - Cap Hex. Hd.	34 4 4	3256-22	Washer - Flat	8 29 10
323-29	Screw - Cap Hex. Hd.	1 17 1	3256-23	Washer - Flat	12 13 6
323-52	Screw - Cap Hex. Hd.	15 25 4	3256-23	Washer - Flat	17 14 2
324-6	Screw - Cap Hex. Hd.	17 5 2	3256-23	Washer - Flat	11 34 2
324-26	Screw - Cap Hex. Hd.	24 11 4	3256-24	Washer - Flat	12 3 3
324-26	Screw - Cap Hex. Hd.	23 19 4	3256-24	Washer - Flat	10 18 2
325-4	Screw - Cap Hex. Hd.	23 25 1	3256-24	Washer - Flat	1 22 1
325-5	Screw - Cap Hex. Hd.	23 23 1	3256-24	Washer - Flat	13 25 8
325-6	Screw - Cap Hex. Hd.	3 4 4	3256-25	Washer - Flat	17 47 2
325-12	Screw - Cap Hex. Hd.	23 24 1	3256-26	Washer - Flat	26 7 1
325-13	Screw - Cap Hex. Hd.	3 1 4	3256-26	Washer - Flat	20 26 2
325-14	Screw - Cap Hex. Hd.	26 35 1	3256-28	Washer - Flat	28 8 4
325-17	Screw - Cap Hex. Hd.	18 57 1	3256-28	Washer - Flat	26 28 2
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*Not Illustrated

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3269-25	Rivet - Pop	8 25 8	32104-76	Screw - Hex. Slotted Hd.	2 48 2
3269-32	Rivet - Pop	12 15 10	32104-95	Screw - Cap Hex. Hd.	12 10 5
3272-2	Pin - Cotter	10 39 1	32104-95	Screw - Hex. Flange Hd.	10 45 4
3272-4	Pin - Cotter	11 27 1	32104-95	Screw - Hex. Washer Hd.	17 22 2
3272-10	Pin - Cotter	3 9 1	32104-95	Screw - Hex. Washer Hd.	13 23 1
3272-13	Pin - Cotter	26 25 2	32104-95	Screw - Hex. Washer Hd.	1 28 6
3274-10	Screw - Hex. Socket Hd.	12 6 4	32105-2	Screw - Cap Hex. Hd.	10 10 2
3274-10	Screw - Socket Hd.	15 1 2	32105-2	Screw - Hex. Flange Hd.	2 60 1
3274-83	Screw - Socket Hd.	25 13 6	32105-5	Screw - Cap Hex. Hd.	10 34 2
3290-313	Screw - Pan Hd.	2 35 2	32105-24	Screw - Round Hd.	17 33 2
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3290-378	Tie - Cable	9 * 5	32120-37	Ring - Retaining	25 21 1
3290-378	Tie - Cable	7 3 4	32121-34	Pin - Roll	17 34 1
3290-378	Tie - Cable	13 42 1	32121-42	Pin - Roll	15 24 4
3290-378	Tie - Cable	18 59 1	32121-48	Pin - Roll	25 12 1
3290-410	Tie - Cable	17 21 1	32121-66	Pin - Roll	26 13 3
3290-494	Washer - Rubber	5 1 1	32121-79	Pin - Roll	1 15 2
3296-2	Nut - Lock	10 20 4	32128-21	Nut - Flange Lock	12 35 4
3296-2	Nut - Lock	2 59 1	32128-37	Nut - Flange Lock	17 46 2
3296-3	Nut - Lock	2 41 3	32136-5	Nut - Slotted	26 27 2
3296-3	Nut - Lock	17 42 1	32144-41	Screw - Cap Hex. Hd.	5 11 4
3296-6	Nut - Lock	14 4 3	32144-67	Screw - Hex. Washer Hd.	13 21 1
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3296-15	Nut - Lock	28 7 2	32151-44	Ring - Retaining	8 7 1
3296-19	Nut - Lock	20 16 2	32151-47	Ring - Retaining	11 10 1
3296-19	Nut - Lock	23 21 2	32151-99	Ring - Retaining	25 14 1
3296-19	Nut - Lock	1 31 3	32152-1	Nut - Lock	12 26 2
3296-23	Nut - Lock	3 27 4	32152-5	Nut - Lock	13 14 6
3296-23	Nut - Lock	18 54 1	340-4	Fitting - Hydraulic Str.	17 26 2
3296-28	Nut - Lock	20 3 1	340-6	Fitting - Hydraulic St.	3 31 2
3296-29	Nut - Lock	11 1 2	340-54	Fitting - Hydraulic 45°	18 50 1
3296-29	Nut - Lock	17 13 2	340-98	Fitting - Hydraulic 90°	10 22 2
3296-29	Nut - Lock	26 16 6	340-98	Fitting - Hydraulic 90°	15 30 1
3296-29	Nut - Lock	28 19 16	340-127	Nut - Bulkhead	8 15 4
3296-29	Nut - Lock	5 33 3	340-161	Fitting - Hydraulic Bulkhead	8 3 2
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3296-39	Nut - Lock	8 12 1	354-82	Plug	23 1 1
3296-39	Nut - Lock	20 14 1	354-82	Plug Assembly	22 13 3
3296-39	Nut - Lock	26 14 3	354-88	Coupler - Female	5 38 1
3296-39	Nut - Lock	10 17 1	354-89	Coupler - Male	5 39 1
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3296-39	Nut - Lock	15 26 4	354-93	Fitting - 90° Elbow	23 11 1
3296-39	Nut - Lock	18 56 4	354-93	Fitting - 90° Elbow	10 38 1
3296-42	Nut - Lock	3 14 4	354-96	Fitting - Tee	7 4 1
3296-42	Nut - Lock	1 26 1	354-98	Fitting - Straight	5 24 1
3296-42	Nut - Lock	8 26 26	354-101	Fitting - Elbow	10 47 1
3296-42	Nut - Lock	10 33 6	354-102	Hydraulic Fiting Assembly	10 4 1
3296-42	Nut - Lock	17 36 2	354-106	Fitting - 90° Elbow	5 23 1
3296-45	Nut - Lock	26 6 2	354-109	Fitting - Adaptor	5 2 1
3296-45	Nut - Lock	3 34 2	354-112	Fitting - 90° Elbow	5 16 1
3296-49	Nut - Lock	5 40 2	354-113	Cap - Pipe	8 33 1
3296-56	Nut - Lock	20 15 1	354-114	Fitting - 90° Elbow	5 17 1
3296-56	Nut - Lock	11 24 2	354-133	Fitting - Tee	5 25 1
3296-56	Nut - Lock	2 61 1	355-1	Fitting - Tee	5 12 4
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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 has been made in your unit, which is not reflected in your manual, see your TORO Distributor or his Authorized TORO Service Dealer for information and part numbers.

IDENTIFICATION AND ORDERING

MODEL AND SERIAL NUMBERS

The Hydroject 3000 has two identification numbers; a model number and a serial number. The two numbers are stamped on a plate which is located on the main frame under the handle. In any correspondence concerning the Hydroject 3000, supply model and serial numbers to assure that correct information and replacement parts are obtained.

To order replacement parts from an Authorized TORO Service Dealer, supply the following information:

1. Model and serial number of the Hydroject 3000.
2. Part number, description, and the 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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