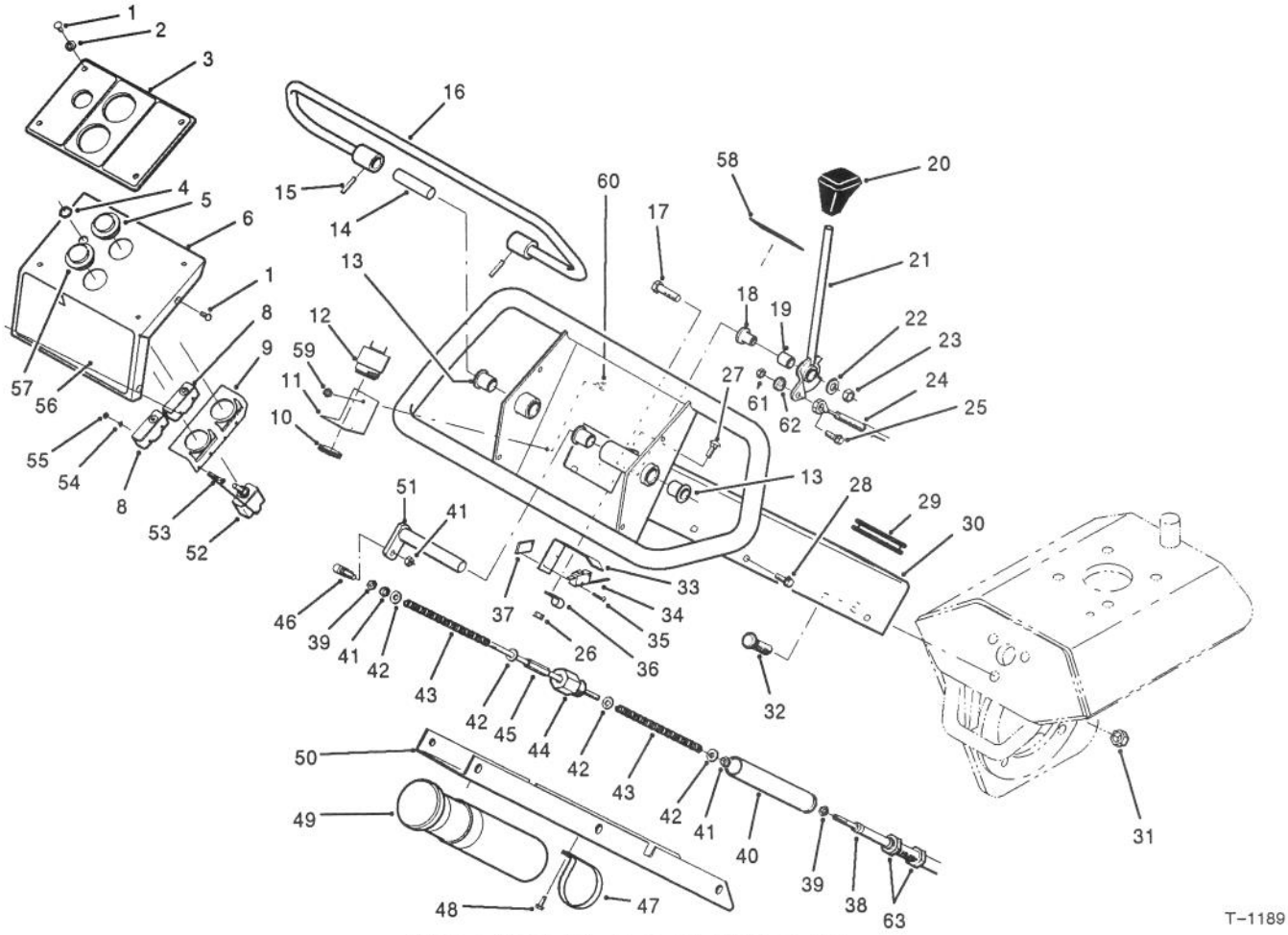
FORM NO. 3314-889

TORO®

MODEL NO. 09800-20001 & UP

PARTS CATALOG

HYDROJECT™ 3000 AERATOR



T-1189

HANDLE ASSEMBLY

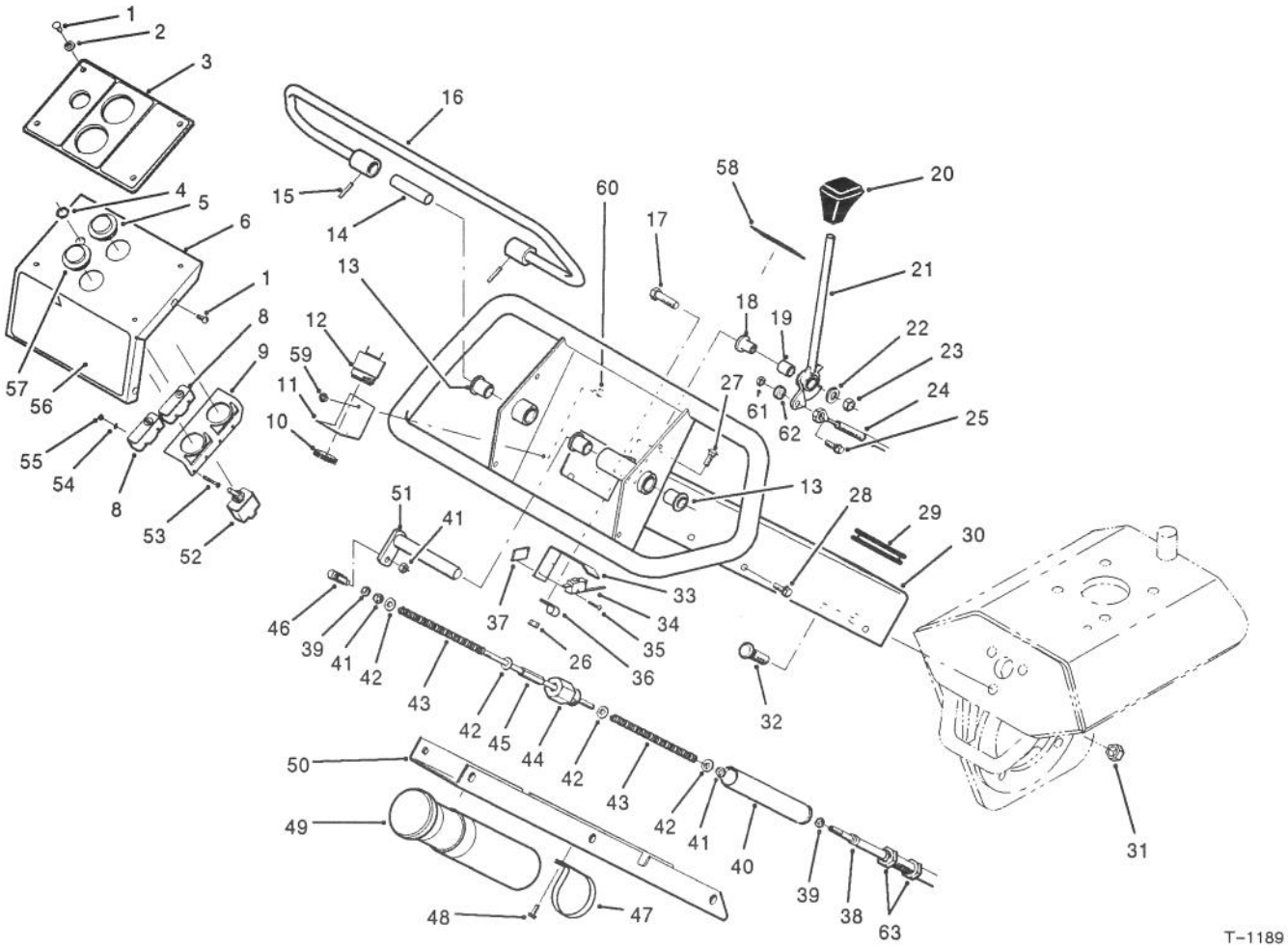
Ref. No.	Part No.	Description	No. Used
1	32104-60	Screw - Hex. Washer Hd.	8
2	3256-14	Washer - Flat	4
‡3	80-9240	Panel - Control (English)	1
4	218-498	Nut - Locking	1
5	80-9290	Button - Switch (Green)	1
6	14-5199	Cover - Control (Incl. Ref. #3 & 56)	1
8	80-9280	Switch Assembly	2
9	80-9270	Bracket - Switch	1
10		Retainer - Alarm	1
11	80-7790	Bracket - Alarm	1
12	80-9330	Audio Alarm Assembly (Incl. Ref. #10)	1
13	256-90	Bushing - Sleeve	3
14	80-7190	Shaft - Pivot	1
15	32121-79	Pin - Roll	2
16	80-7110	Handle - Traction Control	1

Ref. No.	Part No.	Description	No. Used
17	323-29	Screw - Cap Hex. Hd.	1
18	80-7200	Spacer - Brake	1
19	256-206	Bushing - Sleeve	1
20	65-8970	Knob	1
21	80-6750	Lever - Brake	1
22	3256-24	Washer - Flat	1
23	3296-59	Nut - Lock	1
24	80-9740	Cable - Brake	1
25	11-9030	Screw - Shoulder	1
26	3296-42	Nut - Lock	1
27	3229-1	Bolt - Carriage	1
28	32104-95	Screw - Hex. Washer Hd.	6
29	240-12	Grommet	1
30	80-6800	Handle	1
31	3296-19	Nut - Lock	3
32	10-6830	Stud - Drive	3
33	80-6900	Bracket - Switch	1

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

TPS

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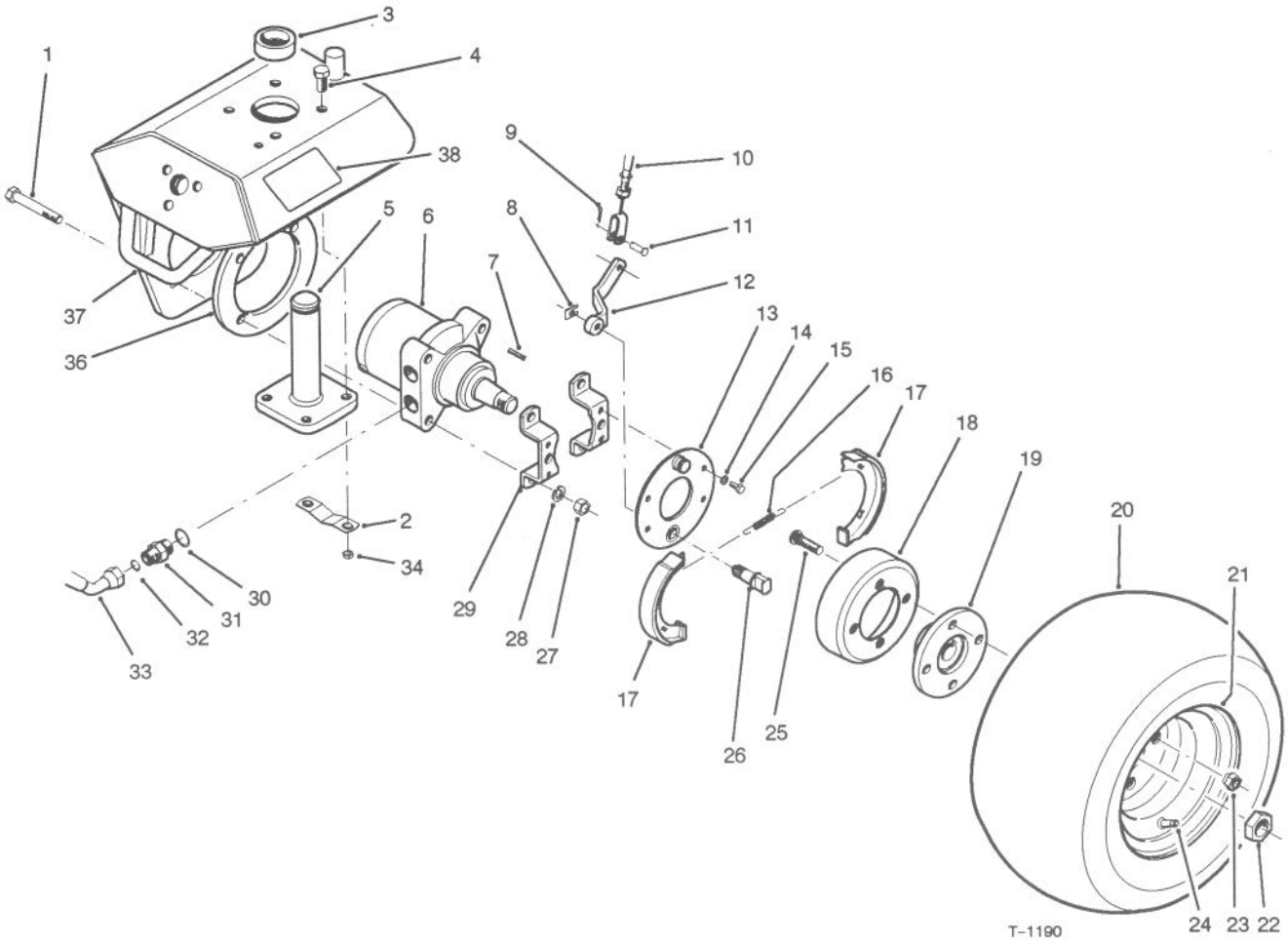


HANDLE ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
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
49	74-0720	Tube - Manual	1

Ref. No.	Part No.	Description	No. Used
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.



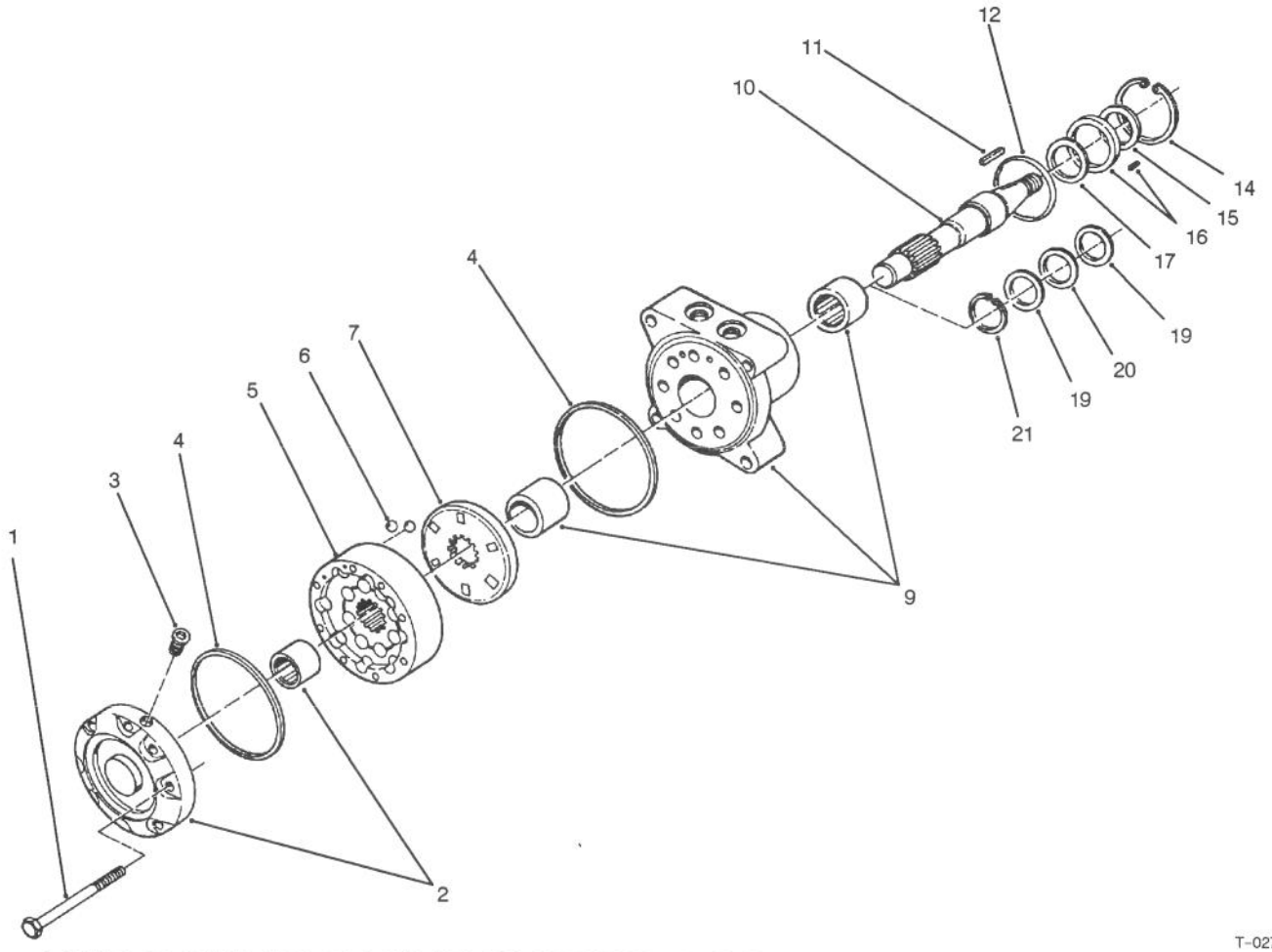
FRONT WHEEL ASSEMBLY

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	283-1	Pin - Clevis	1
12	80-7400	Lever - Brake	1
13	70-9870	Plate - Brake	1
14	3255-7	Washer - Lock	4
15	329-3	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

Ref. No.	Part No.	Description	No. Used
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	3217-9	Nut - Lock	4
28	3253-7	Washer - Lock	4
29	10-8000	Bracket - Brake Plate	2
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

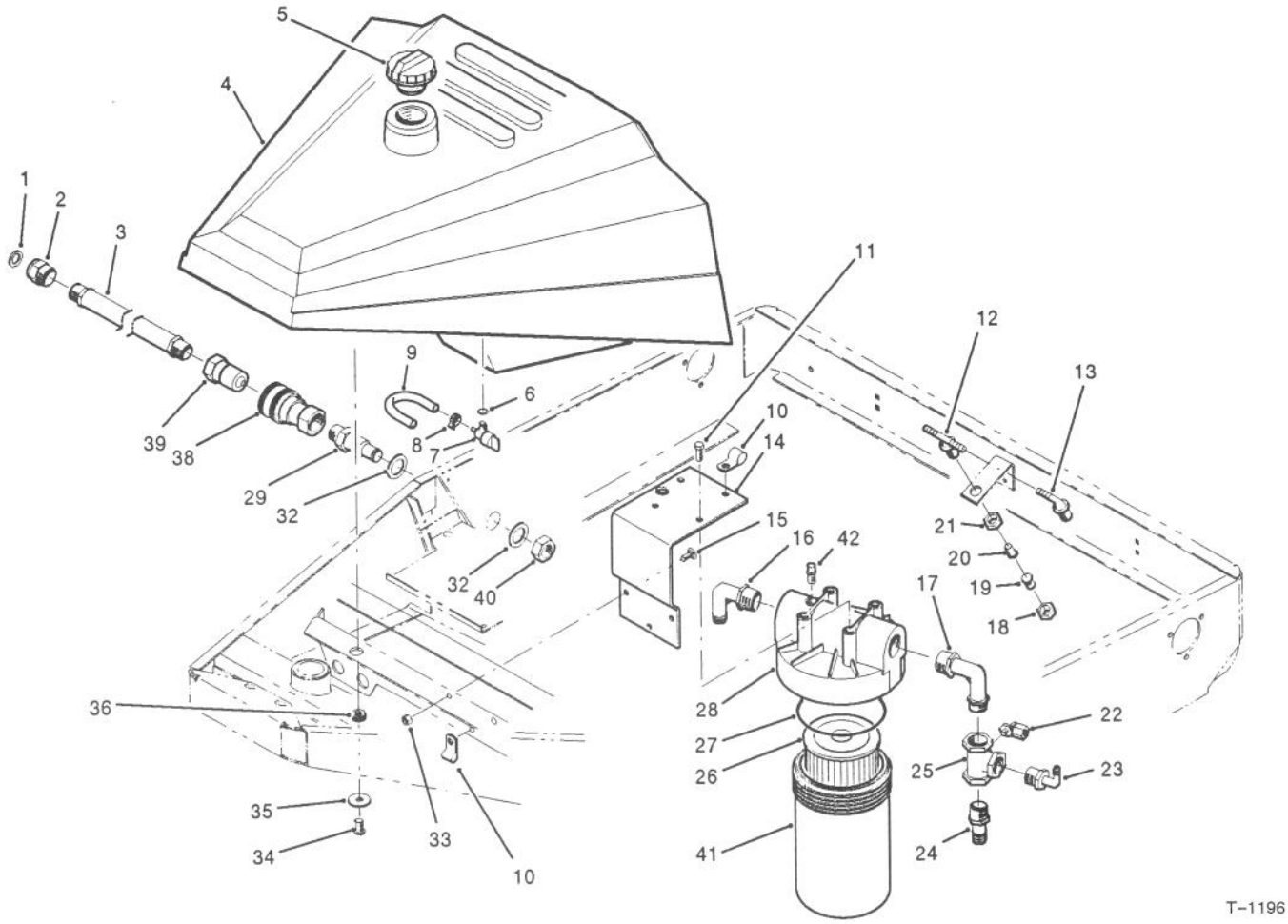
HYDRAULIC DRIVE MOTOR ASSEMBLY NO. 66-5293

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.



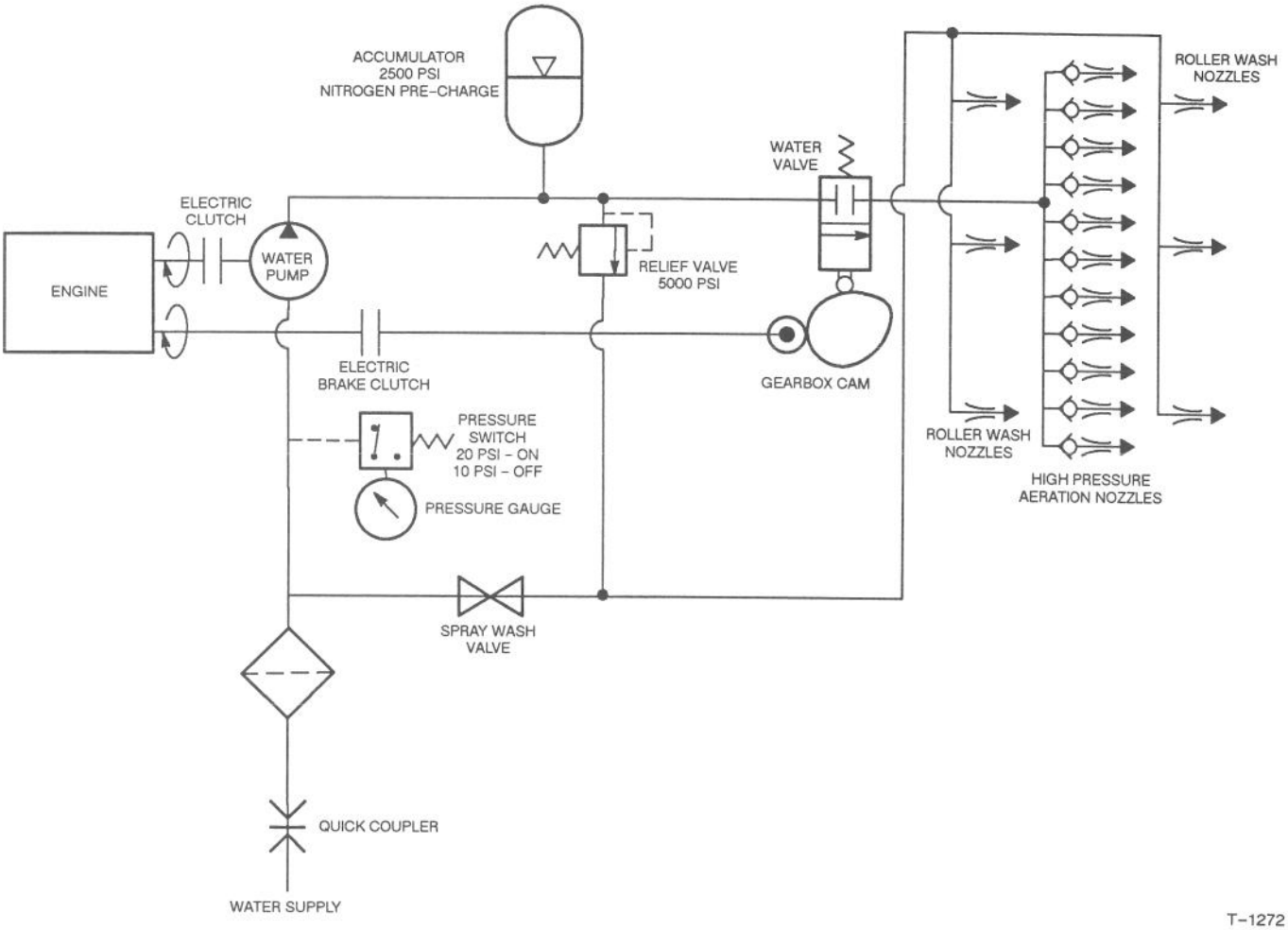
T-1196

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	80-5700	Tank - Fuel	1
5	70-8631	Cap - Fuel	1
6	237-7	Seal - O-Ring	1
7	74-0510	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

Ref. No.	Part No.	Description	No. Used
22	354-101	Fitting - 90° Compression	1
23	354-106	Fitting - 90° Elbow	1
24	354-98	Fitting - Straight	1
25	354-91	Fitting - Gauge 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
*	80-8600	Water Filter Assembly (Incl. Ref. #27-28 & 41-42)	1
*	80-9510	Wrench - Water Filter	1

*Not Illustrated

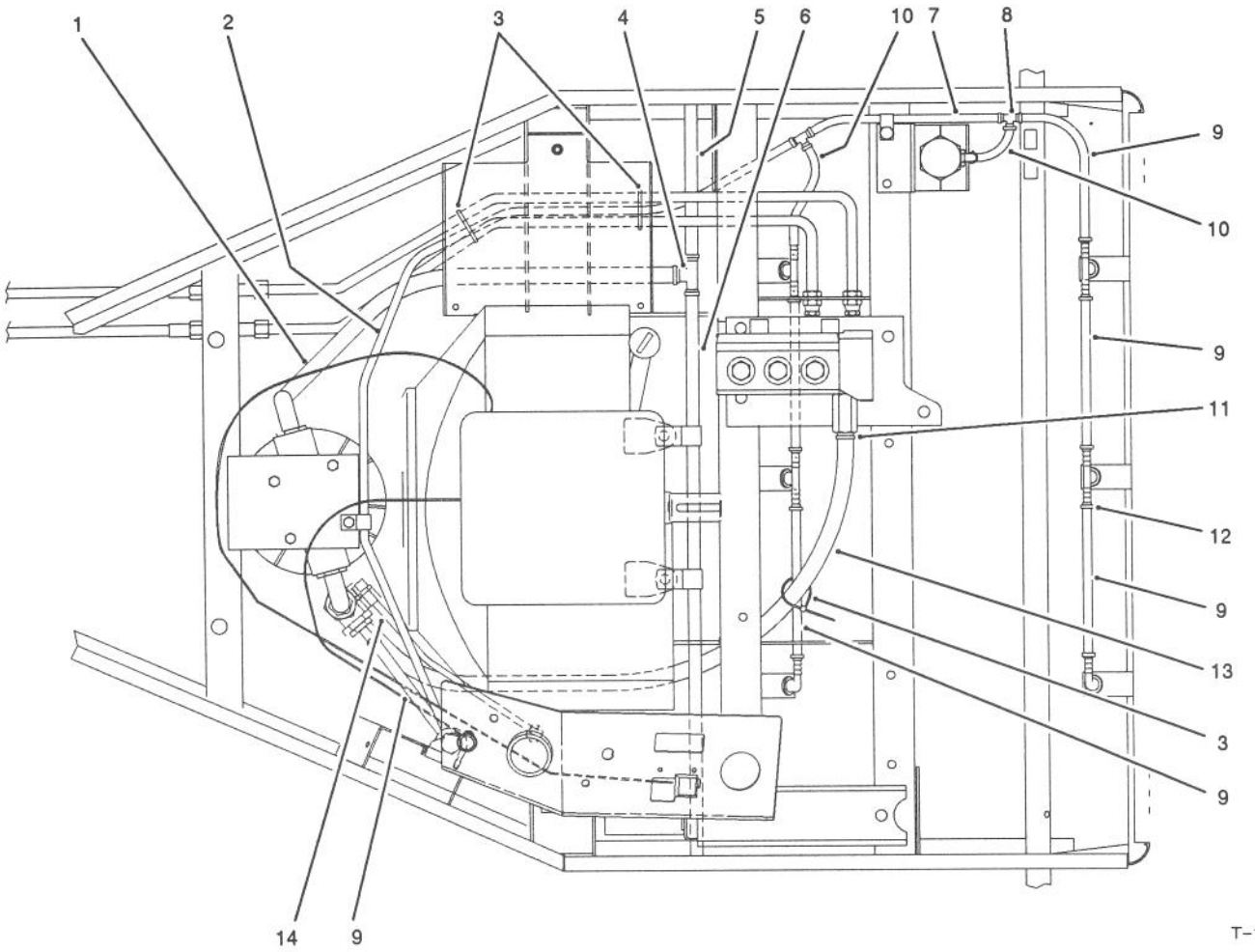


T-1272

WATER SYSTEM SCHEMATIC

Ref. No.	Part No.	Description	No. Used

Ref. No.	Part No.	Description	No. Used

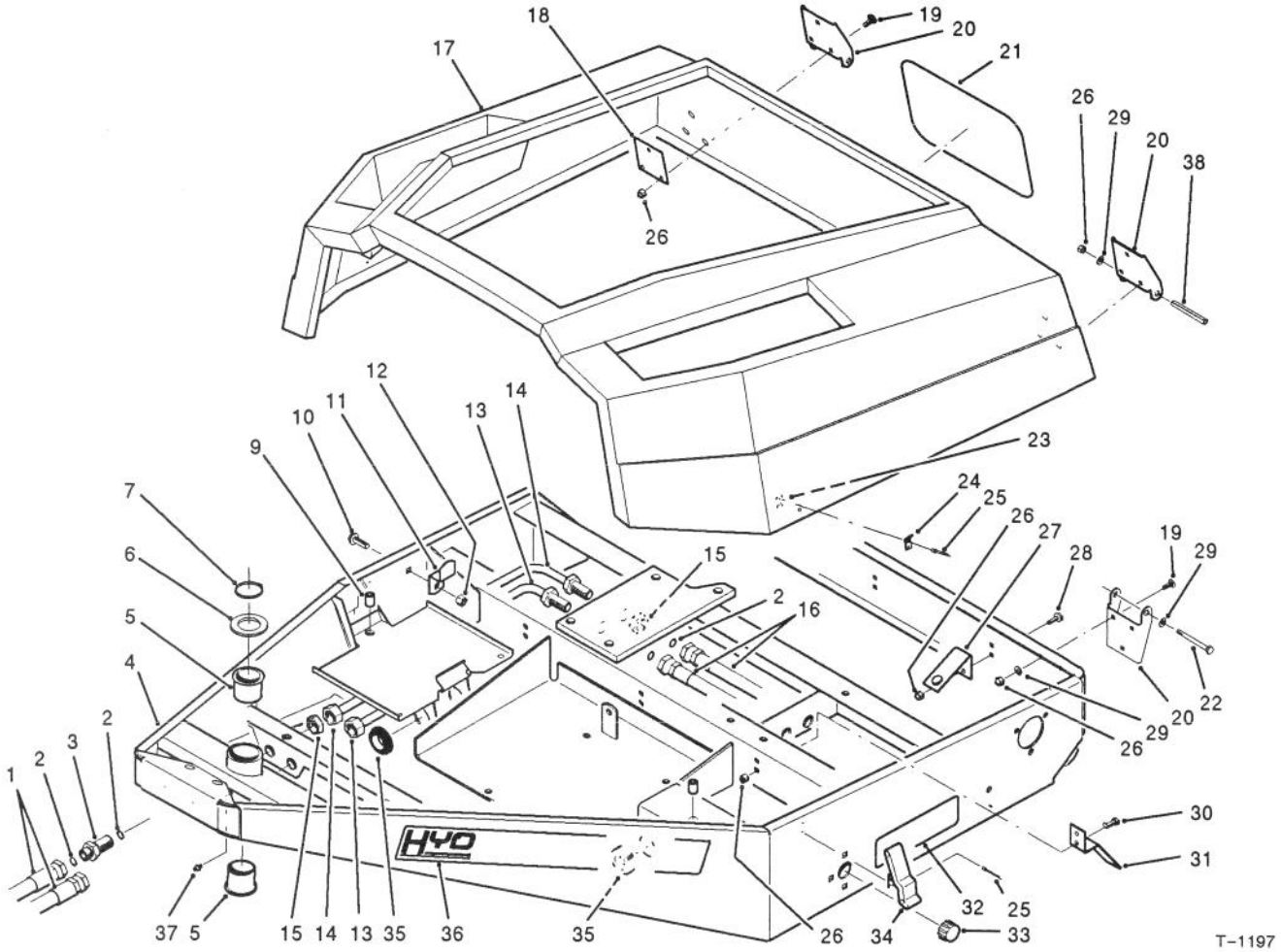


T-1275

WATER SYSTEM HOSE ROUTING DIAGRAM

Ref. No.	Part No.	Description	No. Used
1	80-6512	Hose - Water	1
2	80-7344	Hose - Water	1
3	3290-378	Tie - Cable	3
4	354-96	Fitting - Tee	1
5	80-6511	Hose - Water	1
6	80-6510	Hose - Water	1
7	80-7342	Hose - Water	1

Ref. No.	Part No.	Description	No. Used
8	354-107	Fitting - Tee	2
9	80-7340	Hose - Water	6
10	80-7341	Hose - Water	2
11	2412-129	Clamp - Hose 3/8"	8
12	2412-108	Clamp - Hose 3/4"	20
13	80-6513	Hose - Water	1
14	80-6520	Hose - Water	1

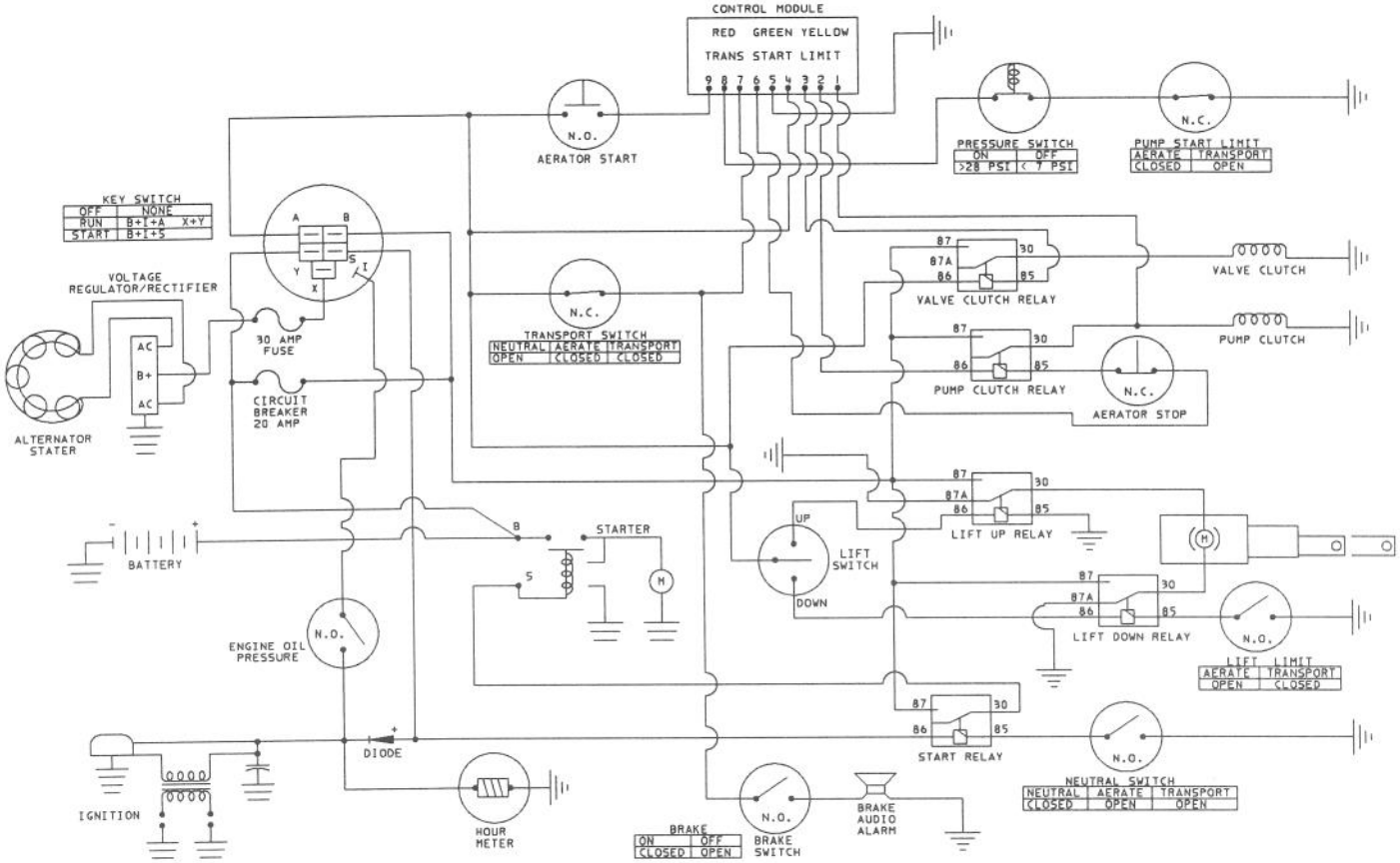


FRAME & COVER ASSEMBLY

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

Ref. No.	Part No.	Description	No. Used
19	3229-1	Bolt - Carriage	12
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

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

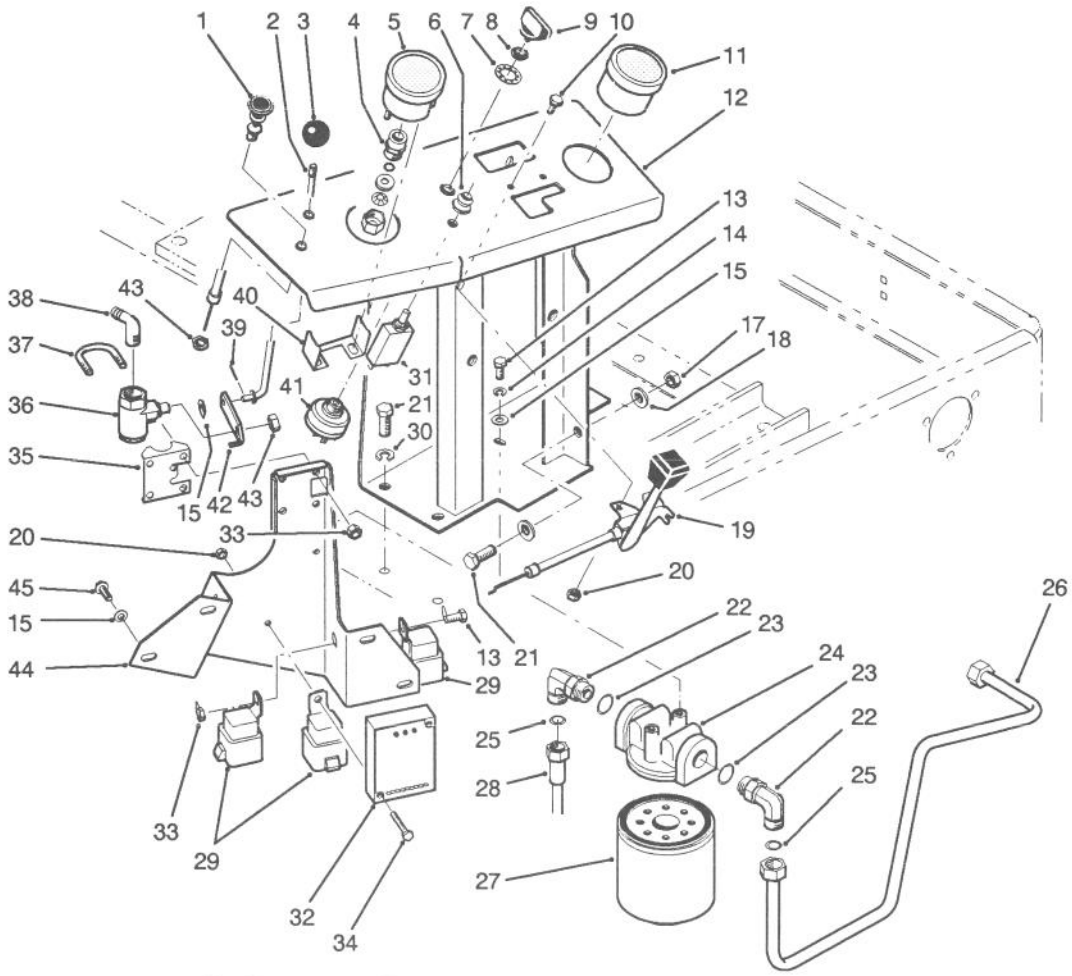


T-1237

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
*	80-9620	Wire Harness - Tiller	1
*	80-8790	Wire Harness - Control Panel	1
*	3290-378	Tie - Cable	5

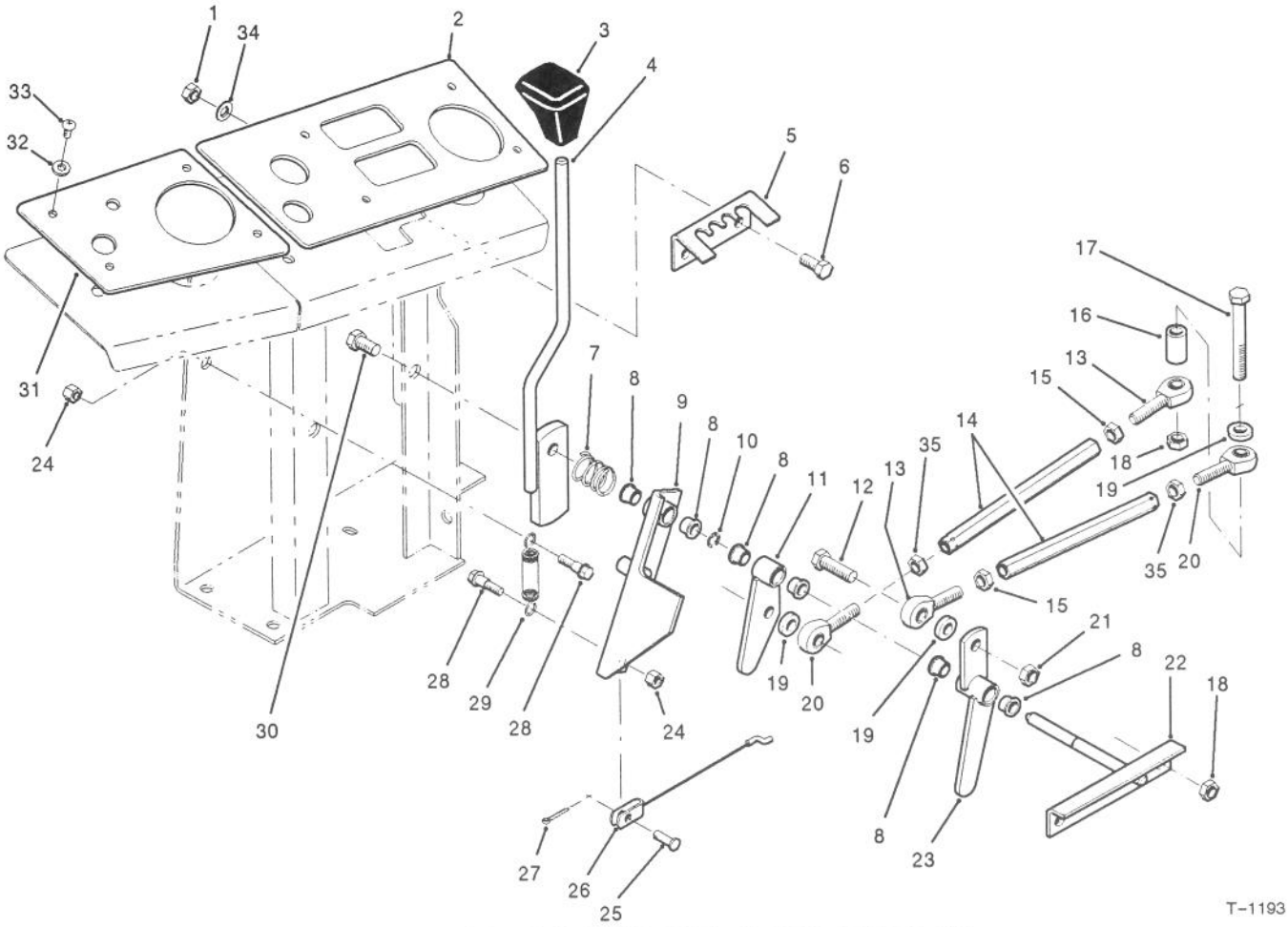
*Not Illustrated



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

Ref. No.	Part No.	Description	No. Used
24	54-0100	Head - Oil Filter	1
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	2
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



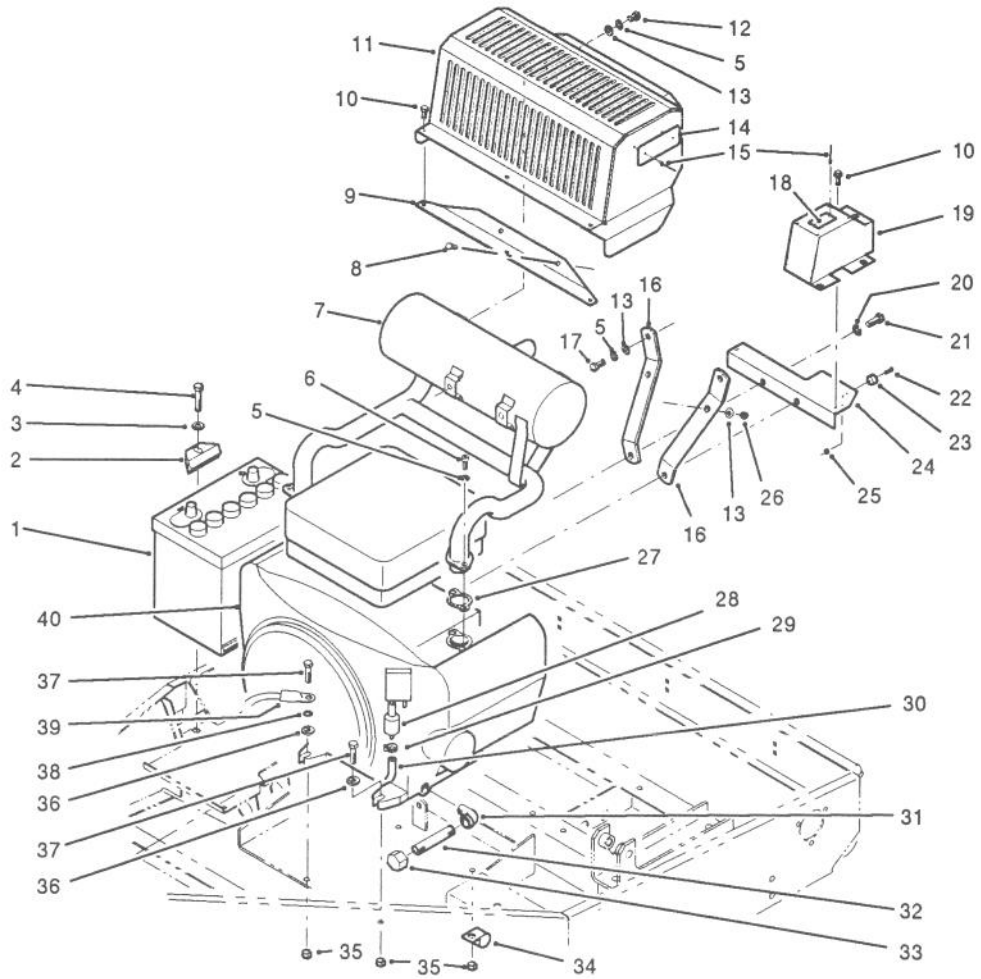
T-1193

CONTROL LINKAGE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3296-29	Nut - Lock	2
‡2	80-8110	Panel - Engine Control (English)	1
3	65-8970	Knob	1
4	80-8400	Lever - Speed Control	1
5	80-7670	Plate - Speed Control	1
6	322-3	Screw - Cap Hex. Hd.	2
7	80-7890	Spring - Compression	1
8	256-116	Bushing - Flange	6
9	80-7540	Stop - Speed	1
10	32151-47	Ring - Retaining	1
11	80-7000	Arm - Pivot	1
12	323-7	Screw - Cap Hex. Hd.	2
13	2411-51	Eye - Rod R.H. Thread	2
14	80-7580	Rod - Speed Adjustment	2
15	3220-3	Nut - Jam	2
16	80-7590	Spacer	1
17	323-14	Screw - Cap Hex. Hd.	1

Ref. No.	Part No.	Description	No. Used
18	3296-39	Nut - Lock	3
19	80-7730	Spacer	3
20	2411-50	Eye - Rod L.H. Thread	2
21	3296-59	Nut - Lock	2
22	80-7600	Pin - Pivot	1
23	80-7830	Arm - Pivot	1
24	3296-56	Nut - Lock	2
25	283-67	Pin - Clevis	1
26	80-8430	Cable - Speed Control	1
27	3272-4	Pin - Cotter	1
28	42-3560	Bolt - Shoulder	2
29	66-4160	Spring - Extension	1
30	323-4	Screw - Cap Hex. Hd.	2
‡31	80-8150	Panel - Control (English)	1
32	3256-14	Washer - Flat	8
33	32104-60	Screw - Hex. Washer Hd.	8
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

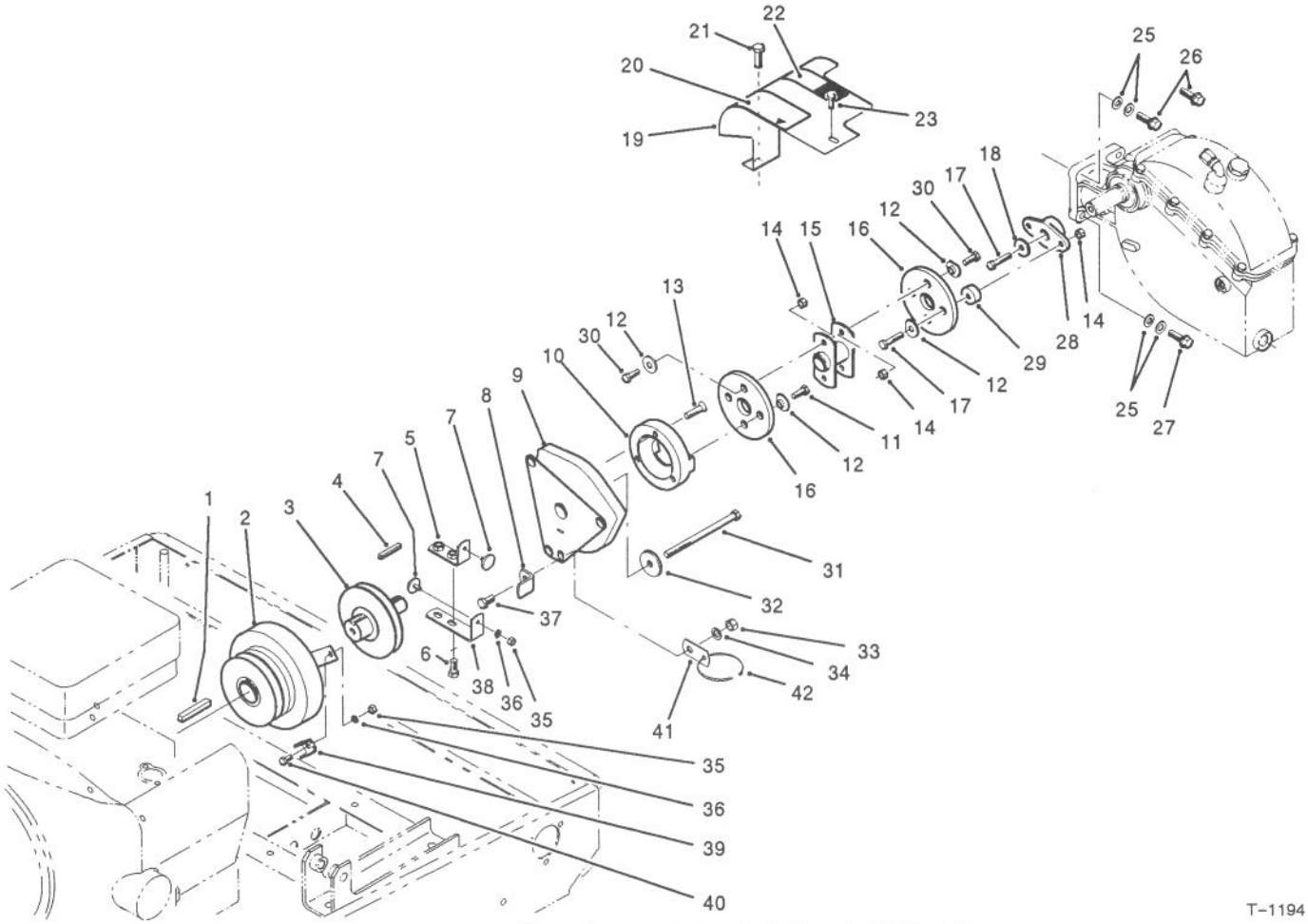
ENGINE INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	80-6790	Battery	1
2	66-2490	Clamp - Battery	1
3	3256-24	Washer - Flat	3
4	323-9	Screw - Cap Hex. Hd.	1
5	3253-4	Washer - Lock	8
6	3274-10	Screw - Hex. Socket Hd.	4
7	80-5650	Muffler	1
8	322-4	Screw - Cap Hex. Hd.	2
9	80-9150	Support - Muffler Shield	1
10	32104-95	Screw - Cap Hex. Hd.	5
11	14-5229	Guard - Muffler (Incl. Ref. #14 & 15)	1
12	322-1	Screw - Cap Hex. Hd.	2
13	3256-23	Washer - Flat	6
‡14	80-8290	Plate - Hot Surface (English)	3
15	3269-32	Rivet - Pop	10
16	80-7680	Support - Muffler	2
17	322-3	Screw - Cap Hex. Hd.	2
‡18	80-9350	Plate - Hot Surface (English)	2
19	14-5239	Guard - Muffler L.H. (Incl. Ref. #10 & 18)	1
*	14-5249	Guard - Muffler R.H. (Incl. Ref. #10 & 18)	1

Ref. No.	Part No.	Description	No. Used
20	3253-21	Washer - Lock	2
21	323-6	Screw - Cap Hex. Hd.	2
22	3250-39	Screw - Pan Hd.	1
23	66-2910	Bumper - Rubber	1
24	80-7700	Bracket - Support	1
25	3296-9	Nut - Lock	1
26	32152-1	Nut - Lock	2
27	82-1520	Gasket - Muffler	2
28	71-5960	Filter - Fuel	1
29	2412-108	Clamp - Hose	1
30	47-2961	Hose - Fuel	1
31	2811-10	Fitting - Drain 90°	1
32	289-48	Nipple - Drain	1
33	288-4	Cap - Drain	1
34	2412-71	Clamp - R	2
35	32128-21	Nut - Flange Lock	4
36	52-5980	Spacer	2
37	323-19	Screw - Cap Hex. Hd.	4
38	3255-9	Washer - E.T.L.W.	1
39	80-8370	Cable - Battery (Neg.)	1
*	80-8380	Cable - Battery (Pos.)	1
40	80-5400	Engine	1

*Not Illustrated

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



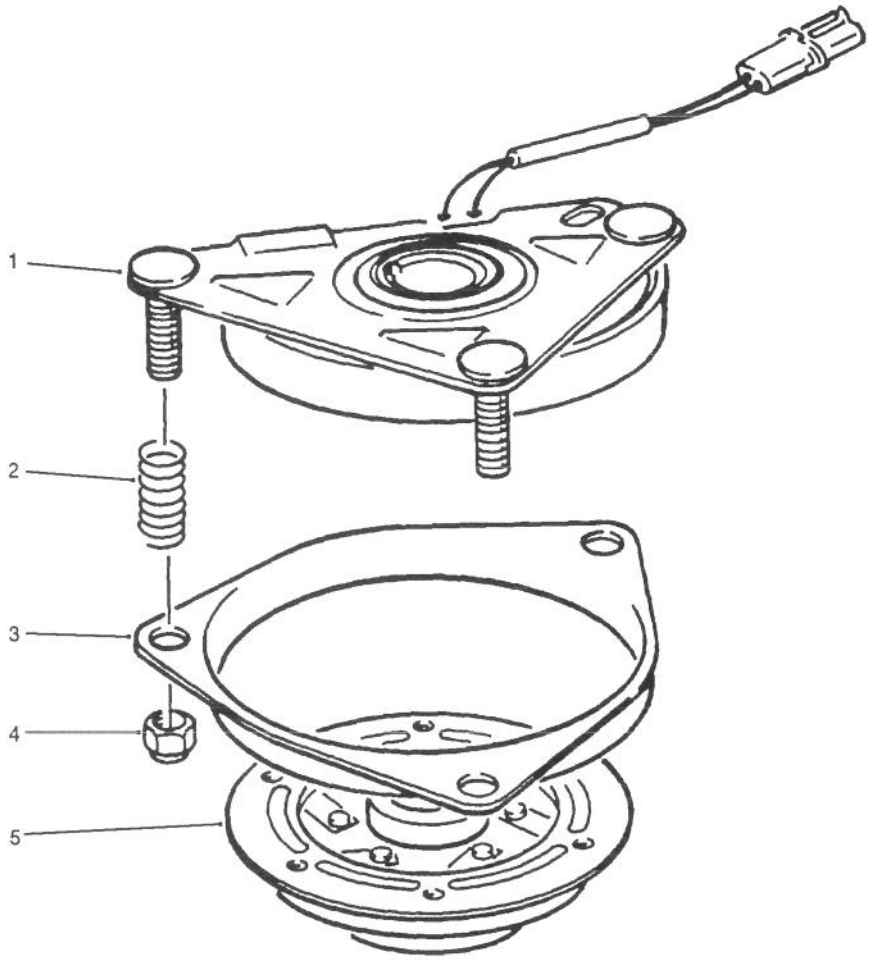
GEAR BOX DRIVE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	80-6140	Key - Clutch	1
2	80-5430	Clutch - Water Pump	1
3	80-9520	Pulley - Engine	1
4	7-0238	Key - Clutch	1
5	80-9760	Stop - Clutch	1
6	323-6	Screw - Cap Hex. Hd.	2
7	240-14	Bumper	2
8	80-8630	Angle - Clutch	1
9	80-6700	Electric Clutch Assembly	1
10	80-6930	Adapter - Clutch	1
11	322-4	Screw - Cap Hex. Hd.	2
12	80-8620	Spacer - Coupler	8
13	32108-103	Screw - Flat Hd.	3
14	32152-5	Nut - Lock	6
15	80-6950	Shaft - Coupler	1
16	80-8650	Disc - Rubber	2
17	3210-8	Screw - Cap Hex. Hd.	3
18	80-8570	Washer	1
19	14-5169	Shield - Drive (Incl. Ref. #20 & 22)	1
‡20	80-8000	Decal - Warning (English)	1

Ref. No.	Part No.	Description	No. Used
21	32144-67	Screw - Hex. Washer Hd.	1
‡22	80-8040	Decal - Warning (English)	1
23	32104-95	Screw - Hex. Washer Hd.	1
25	3256-24	Washer - Flat	8
26	3234-24	Screw - Hex. Washer Hd.	2
27	3234-11	Screw - Hex. Washer Hd.	2
28	80-8180	Hub - Adapter	1
29	80-8660	Spacer - Coupling	2
30	3210-5	Screw - Cap Hex. Hd.	4
31	3211-38	Screw - Cap Hex. Hd.	1
32	80-8560	Washer	1
33	3217-7	Nut - Lock	1
34	3253-21	Washer - Lock	1
35	3217-5	Nut - Lock	3
36	3253-3	Washer - Lock	3
37	323-4	Screw - Cap Hex. Hd.	1
38	80-9780	Stop - Clutch	1
39	80-6920	Bracket - Clutch Retainer	2
40	321-3	Screw - Cap Hex. Hd.	1
41	80-9230	Support - Wire	1
42	3290-378	Tie - Cable	1

*Not Illustrated

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

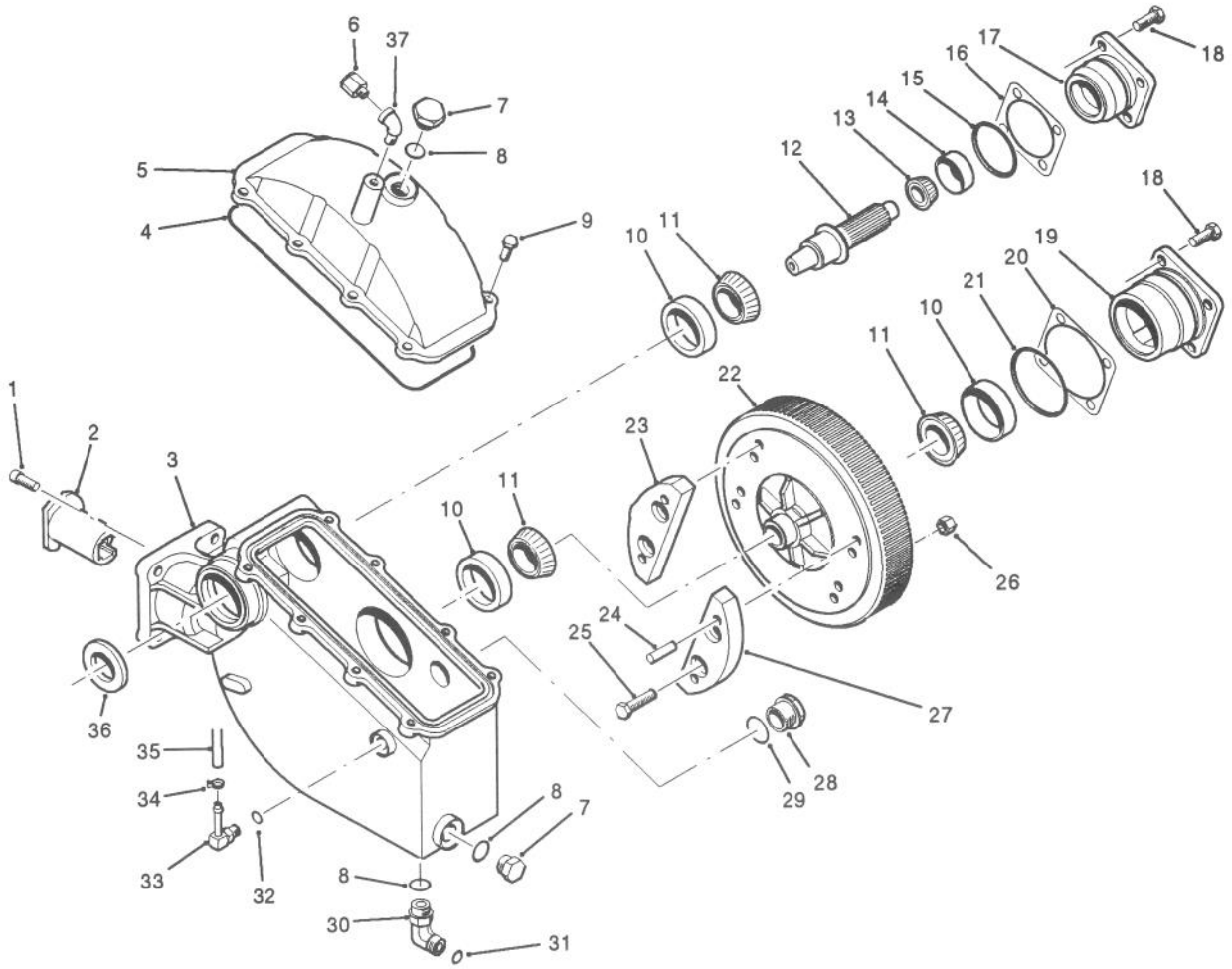


T-1274

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



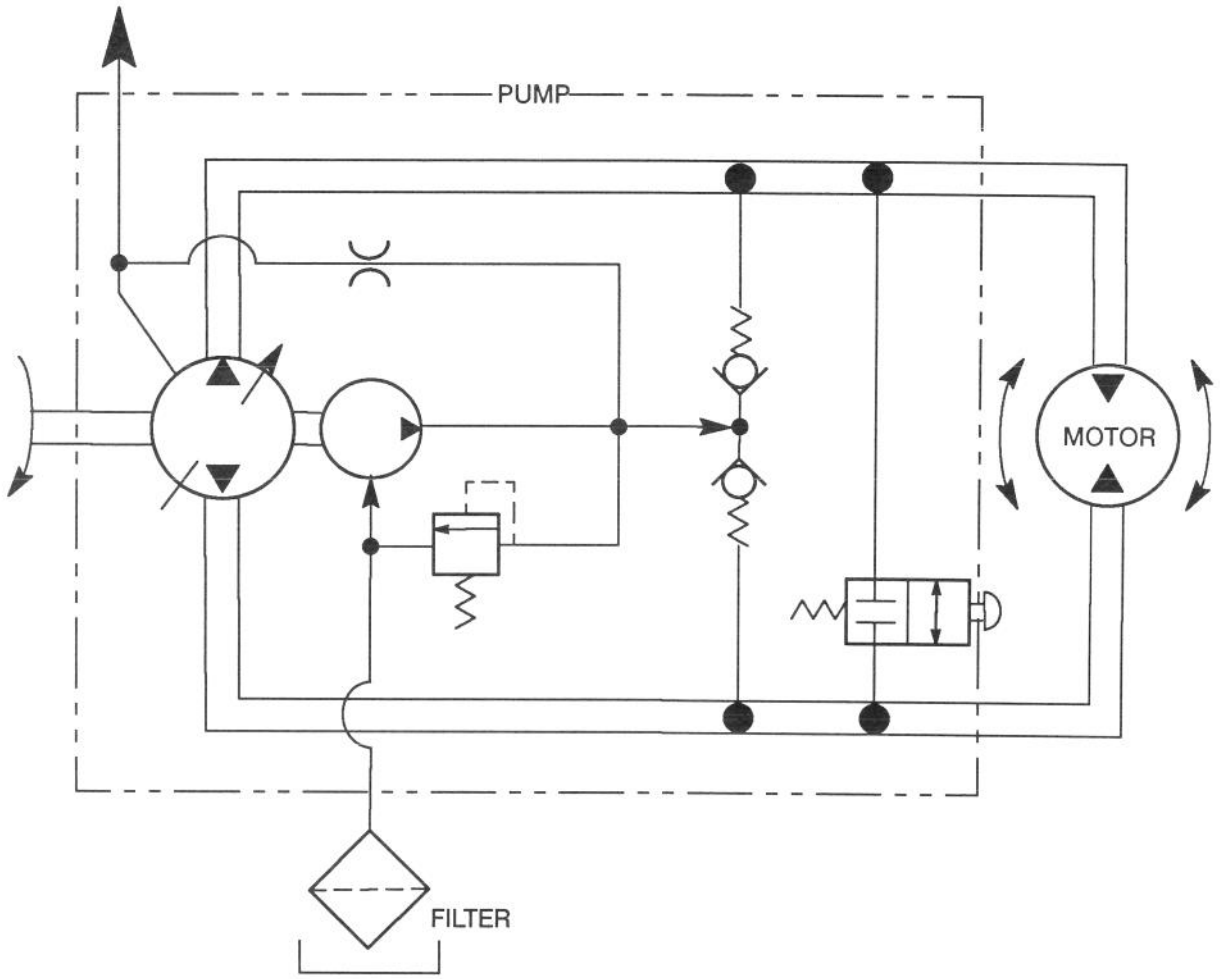
T-1199

GEARBOX ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	3274-10	Screw - Socket Hd.	2
2	80-5330	Sleeve - Follower	1
3	80-5240	Housing - Gear Box	1
4	237-171	Seal - Cover	1
5	80-5260	Cover - Gear Box	1
6	80-7020	Fitting - Breather	1
7	353-550	Fitting - Plug (Incl. Ref. #8)	2
8	237-79	Seal - O-Ring	3
9	322-4	Screw - Cap Hex. Hd.	8
10	254-61	Cup - Bearing	3
11	254-62	Cone - Bearing	3
12	80-8340	Shaft - Pinion	1
13	254-68	Cone - Bearing	1
14	254-67	Cup - Bearing	1
15	237-172	Seal - O-Ring	1
16	80-7030	Shim - Pinion Bearing .002" Red	1
*	80-7031	Shim - Pinion Bearing .005" Blue	1
*	80-7032	Shim - Pinion Bearing .015" Pink	1
*	80-7033	Shim - Pinion Bearing .020" Yellow	1
17	80-5320	Housing - Pinion Bearing	1
18	323-5	Screw - Cap Hex. Hd.	8
19	80-5300	Housing - Gear/Cam Brng.	1

Ref. No.	Part No.	Description	No. Used
20	80-7040	Shim - Gear/Cam Bearing .002" Red	1
*	80-7041	Shim - Gear/Cam Bearing .005" Blue	1
*	80-7042	Shim - Gear/Cam Bearing .015" Pink	1
*	80-7043	Shim - Gear/Cam Bearing .020" Yellow	1
21	237-25	Seal - O-Ring	1
22	80-5280	Gear	1
23	80-8500	Cam	1
24	32121-42	Pin - Roll	4
25	323-52	Screw - Cap Hex. Hd.	4
26	3296-39	Nut - Lock	4
27	80-8510	Block - Weight	1
28	69-1170	Glass - Sight (Incl. Ref. #29)	1
29	237-81	Seal - O-Ring	1
30	340-98	Fitting - Hydraulic 90° (Incl. Ref. #8 & 31)	1
31	237-30	Seal - O-Ring	1
32	237-78	Seal - O-Ring	1
33	304-99	Fitting - 90° Elbow (Incl. Ref. #32)	1
34	2412-108	Clamp - Hose	1
35	80-7360	Hose	1
36	253-148	Seal - Input Shaft	1
37	2811-7	Fitting - Breather 90°	1

*Not Illustrated

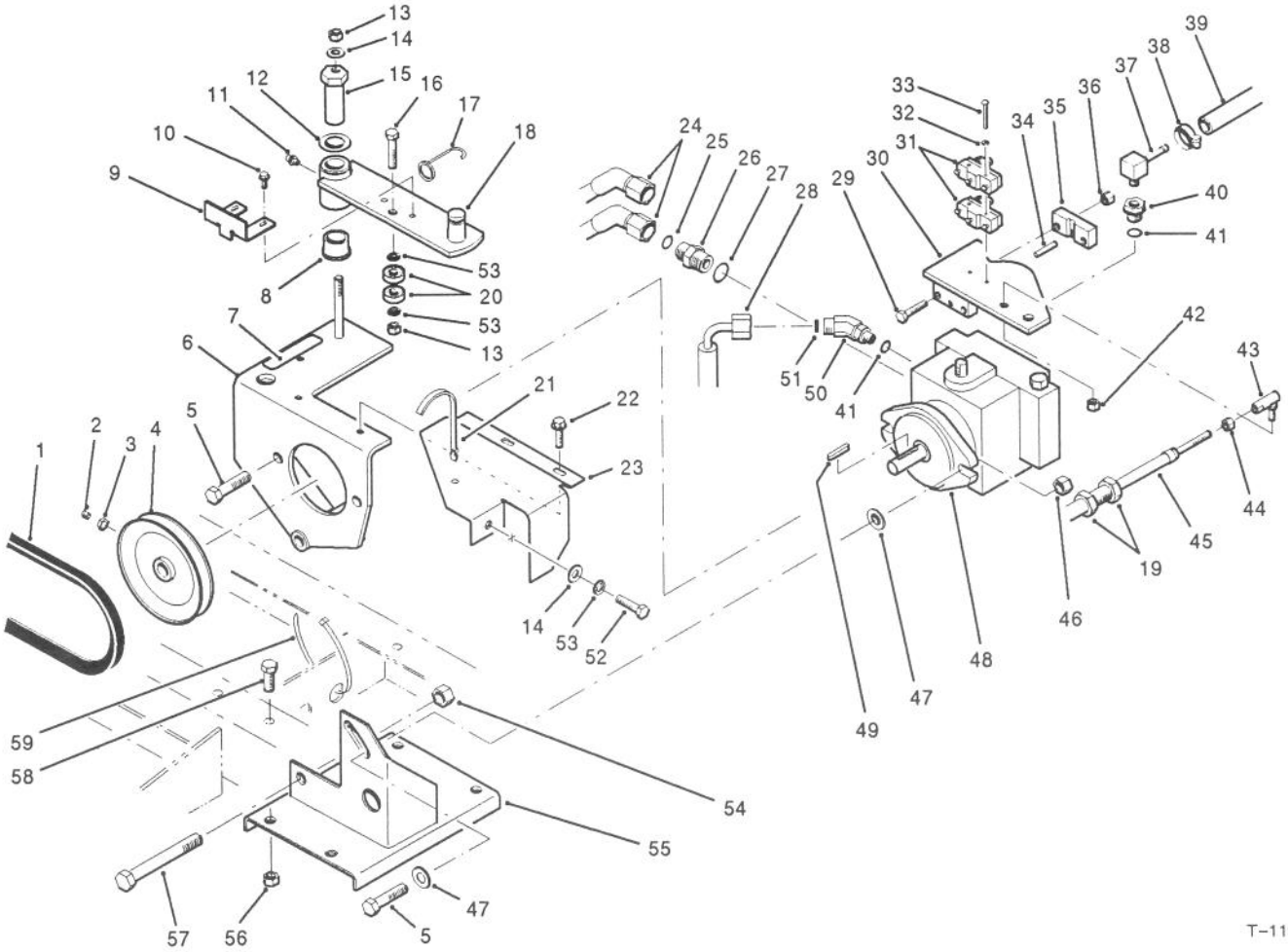


T-1273

HYDRAULIC SCHEMATIC

Ref. No.	Part No.	Description	No. Used

Ref. No.	Part No.	Description	No. Used

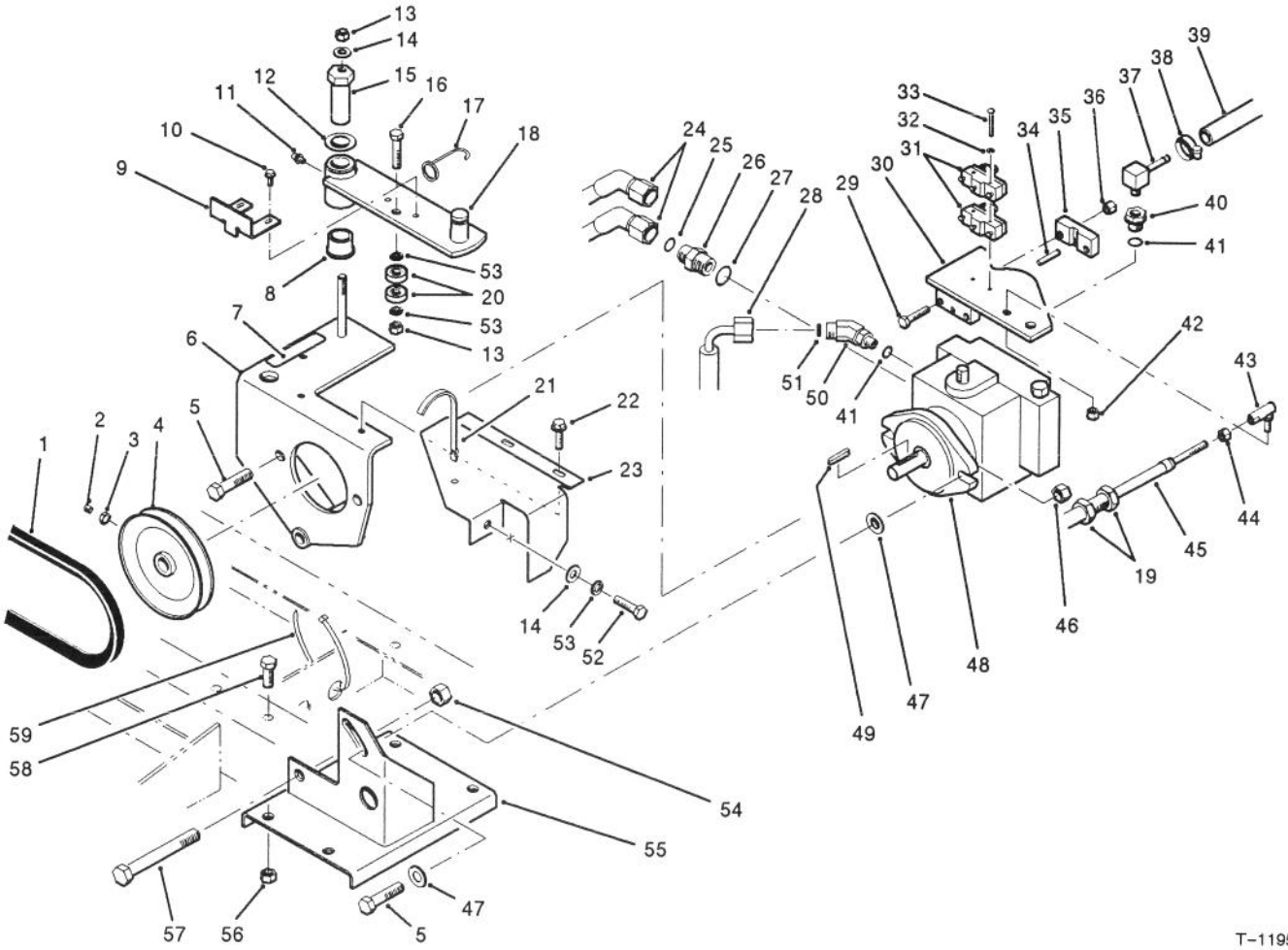


HYDRAULIC PUMP INSTALLATION ASSEMBLY

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

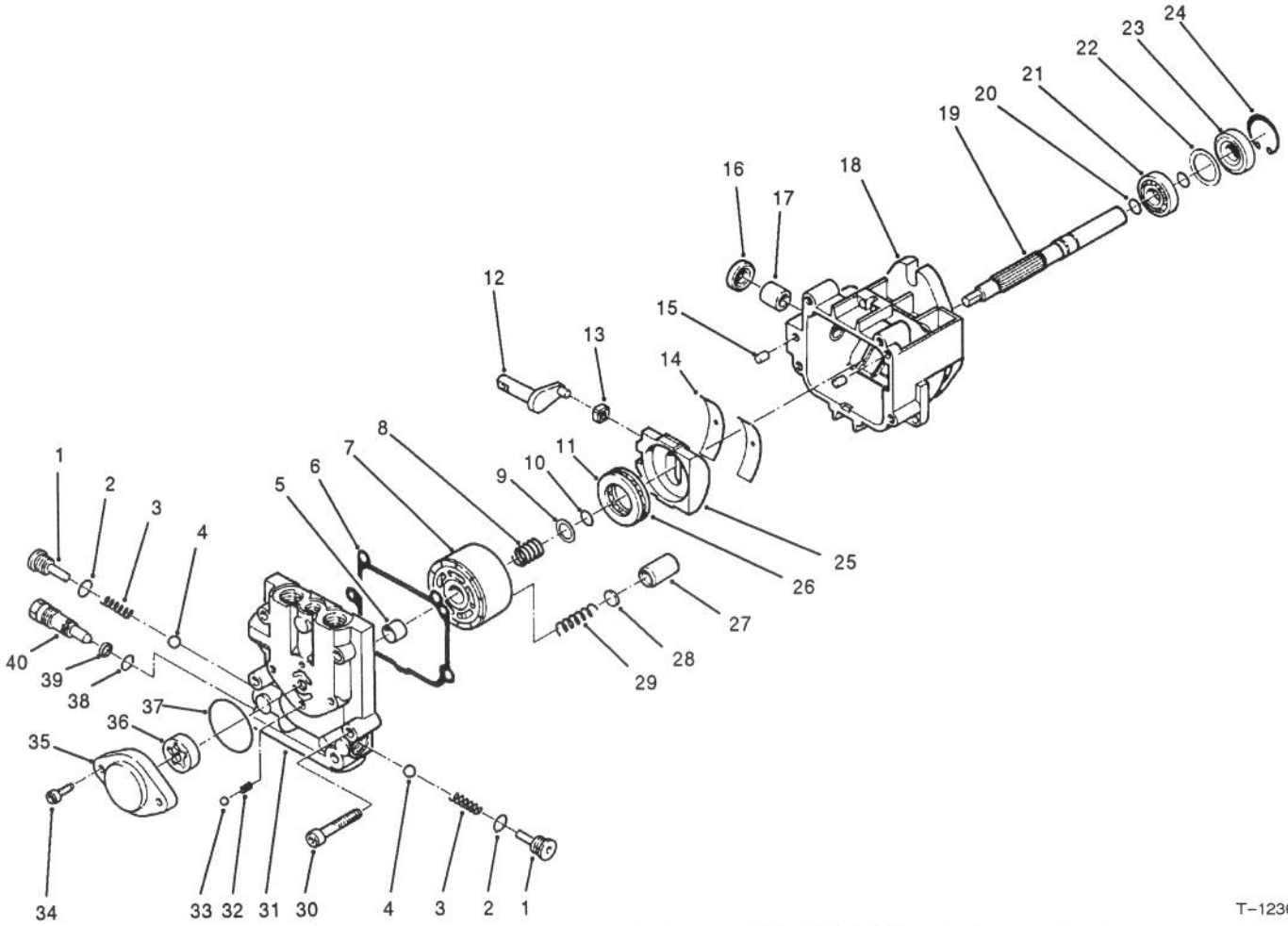
‡For different language versions of this part, see International Decal Cross Reference.



HYDRAULIC PUMP INSTALLATION ASSEMBLY (Continued)

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

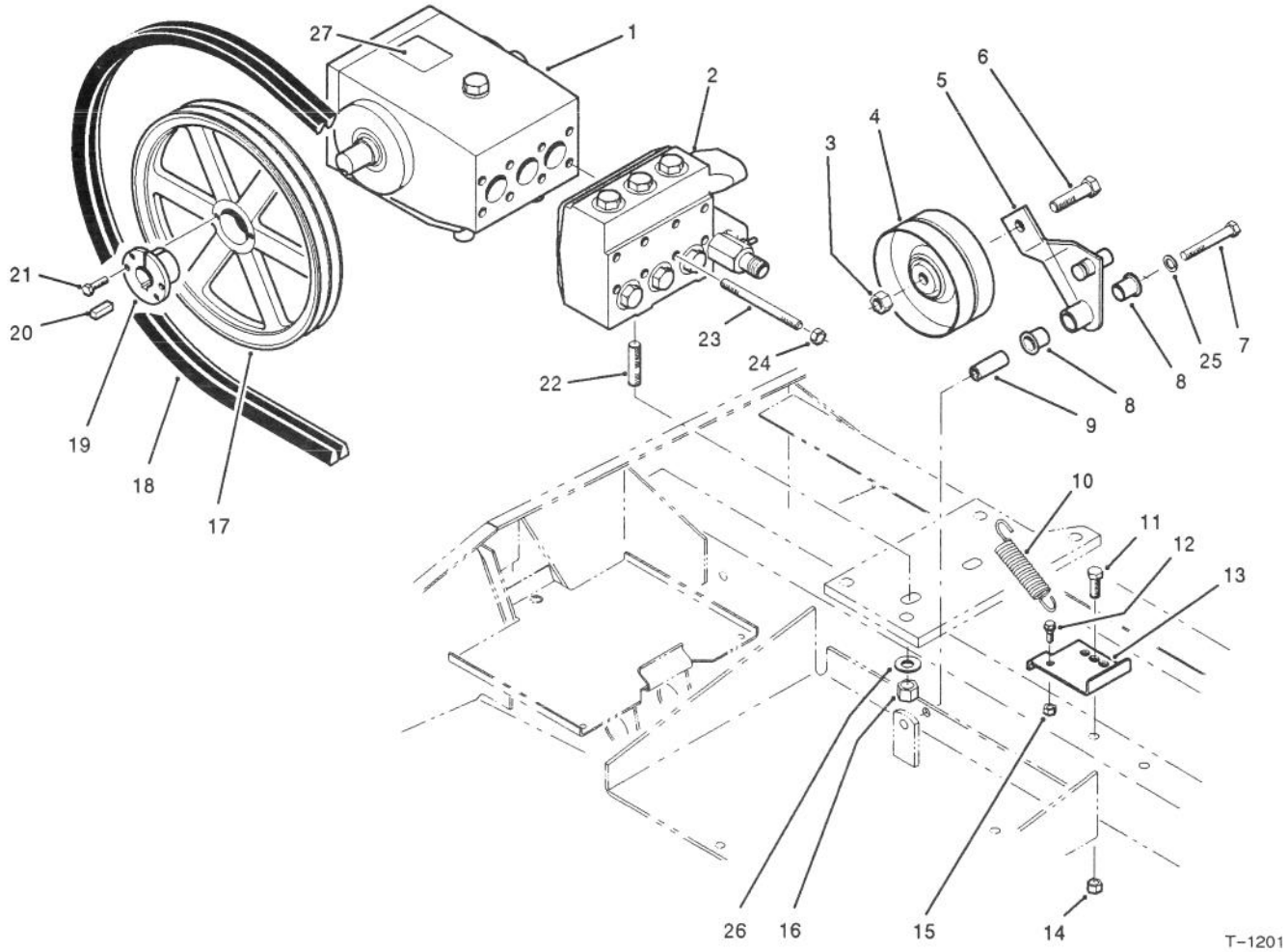


T-1236

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
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

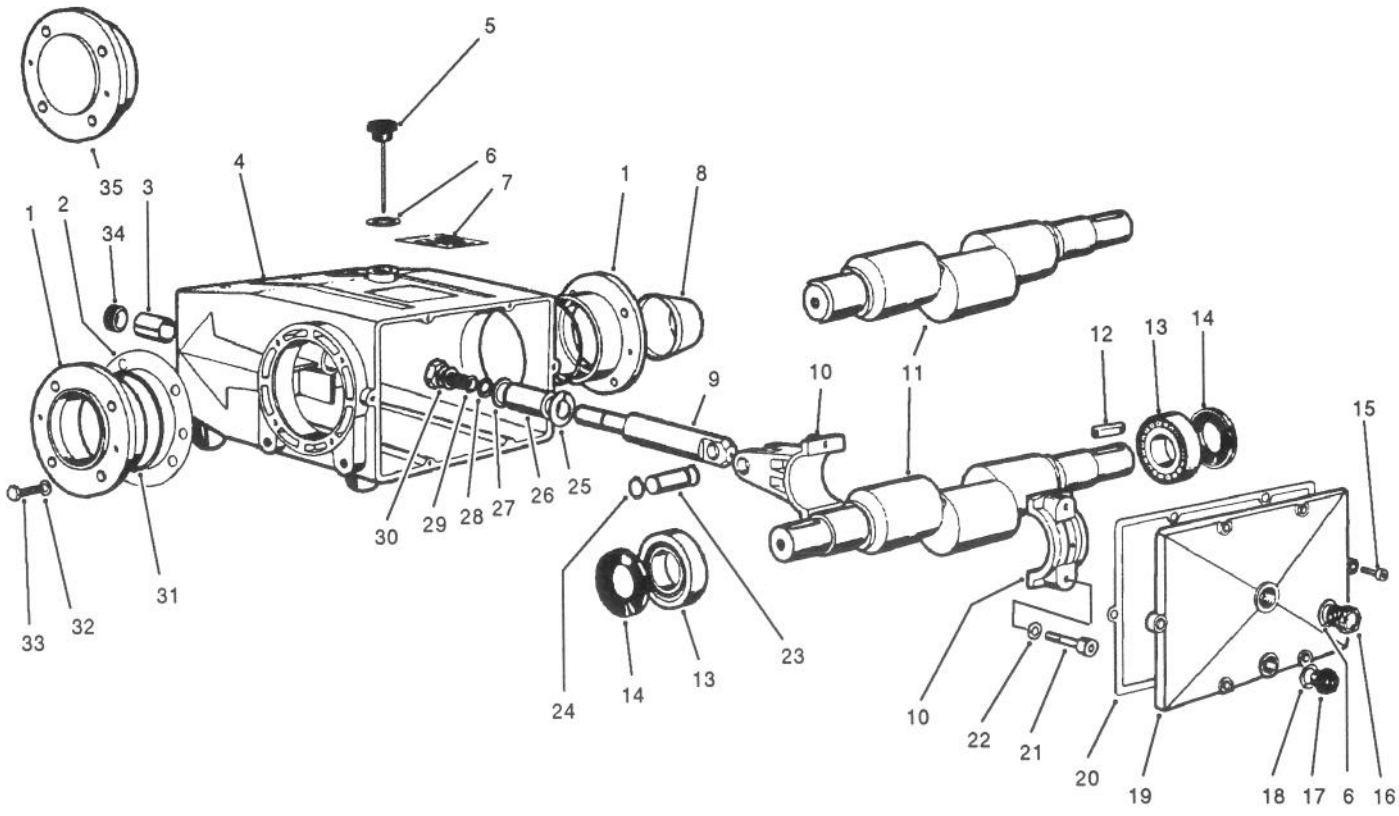
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WATER PUMP INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	14-5299	Pump Crankcase Assembly (Incl. Ref. #20, 23 & 27)	1
2	14-5289	Head - Pump (Incl. Ref. #22)	1
3	3296-28	Nut - Lock	1
4	80-8360	Pulley - Idler	1
5	80-7430	Bracket - Idler	1
6	3213-5	Screw - Cap Hex. Hd.	1
7	323-12	Screw - Cap Hex. Hd.	1
8	80-9610	Bushing - Flange	2
9	80-7710	Sleeve - Idler Bracket	1
10	80-6620	Spring - Extension	1
11	323-6	Screw - Cap Hex. Hd.	1
12	42-3560	Bolt - Shoulder	1
13	80-6600	Bracket - Spring	1

Ref. No.	Part No.	Description	No. Used
14	3296-39	Nut - Lock	1
15	3296-56	Nut - Lock	1
16	3296-19	Nut - Lock	2
17	80-6650	Pulley - Water Pump	1
18	80-6730	Belt - V	2
19	80-6660	Collar - Taper Lock (Incl. Ref. #27)	1
20	80-5920	Key - Collar	1
21	321-4	Screw - Cap Hex. Hd.	2
22	80-8680	Stud - Mounting	2
23	80-8260	Stud - Head	8
24	3219-28	Nut - Lock	8
25	3253-21	Washer - Lock	1
26	3256-26	Washer - Flat	2
27	80-9450	Decal - Pump	1



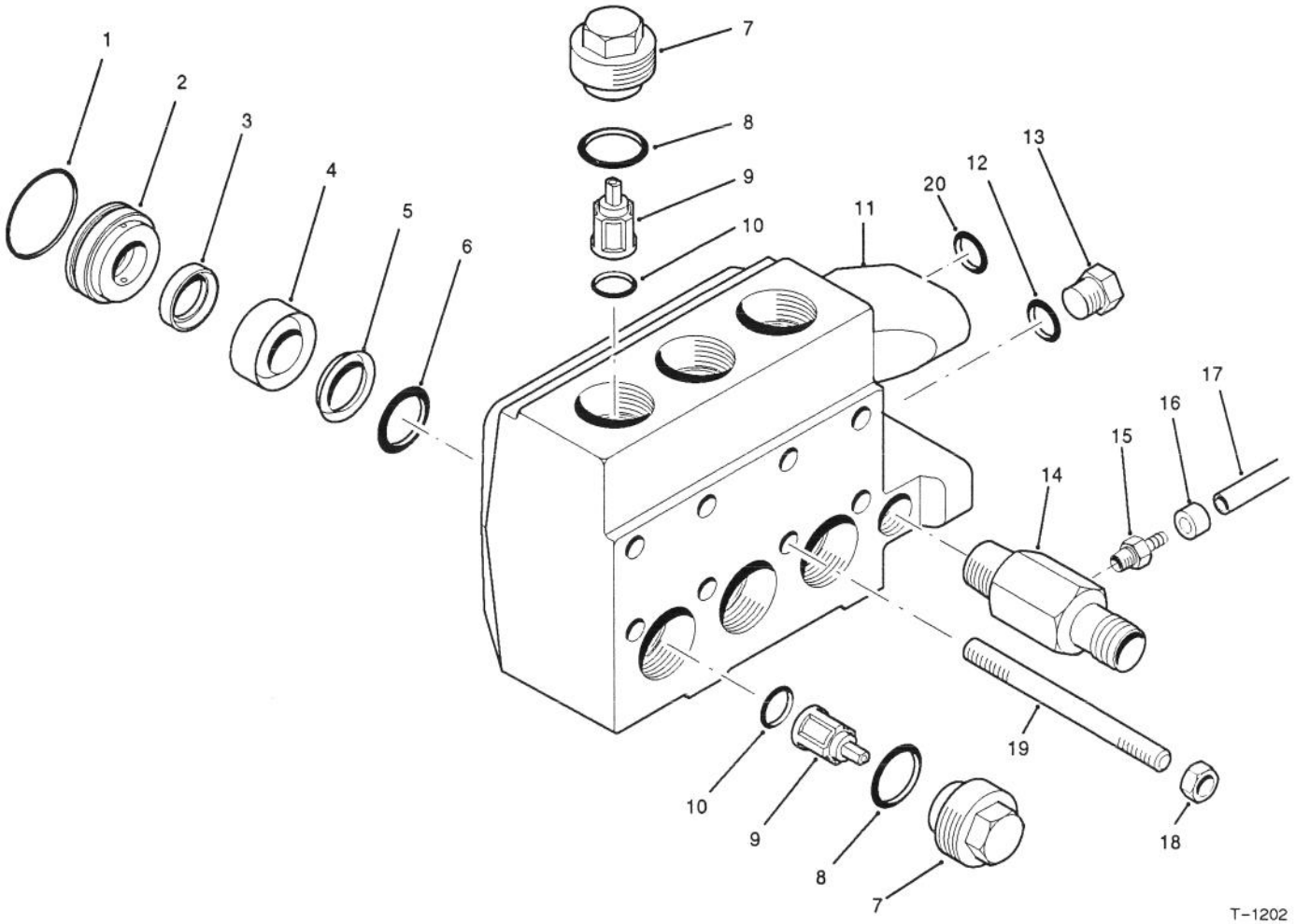
T-1307

WATER PUMP CRANKCASE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	80-5960	Housing - Bearing (Thru) (Use 2 on pumps with long crankshafts. Use 1 on pumps with short crankshafts)	
2	80-6040	Shim - Bearing Housing	2
3	80-6000	Guide - Plunger	3
4		Crankcase	1
5	80-5990	Dipstick - Oil	1
6	80-5850	Gasket	2
7	80-9450	Decal - Crankcase	1
8	80-5950	Protector - Shaft (For pumps with long crankshafts only)	1
9	80-5940	Rod - Plunger	3
10	80-5800	Connecting Rod Assembly (Incl. Ref. #21 & 22)	3
11	80-5930	Crankshaft (Long)	1
11	80-9430	Crankshaft (Short)	1
12	80-5920	Key - Crankshaft	1
13	80-5910	Bearing - Roller	2
14	80-5900	Seal - Crankshaft	2
15	80-5870	Screw - Socket Hd.	6
16	80-5860	Glass - Sight	1

Ref. No.	Part No.	Description	No. Used
17	80-5840	Plug - Drain	1
18	80-5830	Gasket	1
19	80-5880	Cover - Crankcase	1
20	80-5890	Gasket - Crankcase Cover	1
21	80-5820	Screw - Socket Hd.	6
22	80-5810	Washer - Lock	6
23	80-6070	Pin - Connecting Rod	3
24	80-6060	Ring - Retaining	6
25		Spacer - Copper	3
26		Sleeve - Plunger	3
27		Spacer - Copper	3
28		Ring - Teflon	3
29		Seal - O-Ring	3
30		Plunger Bolt Assembly	3
31	80-5970	Seal - O-Ring	2
32	80-6020	Washer	8
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

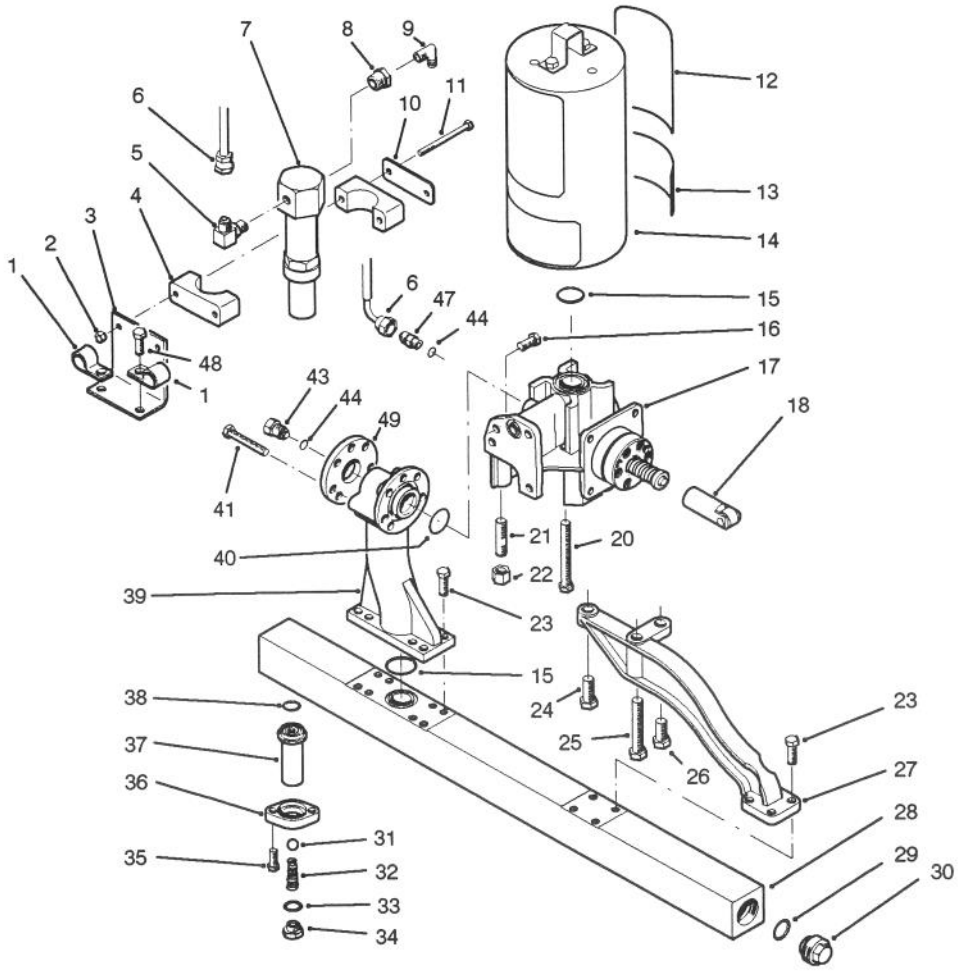


WATER PUMP HEAD ASSEMBLY

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
13	354-82	Plug Assembly (Incl. Ref. #12)	3

Ref. No.	Part No.	Description	No. Used
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

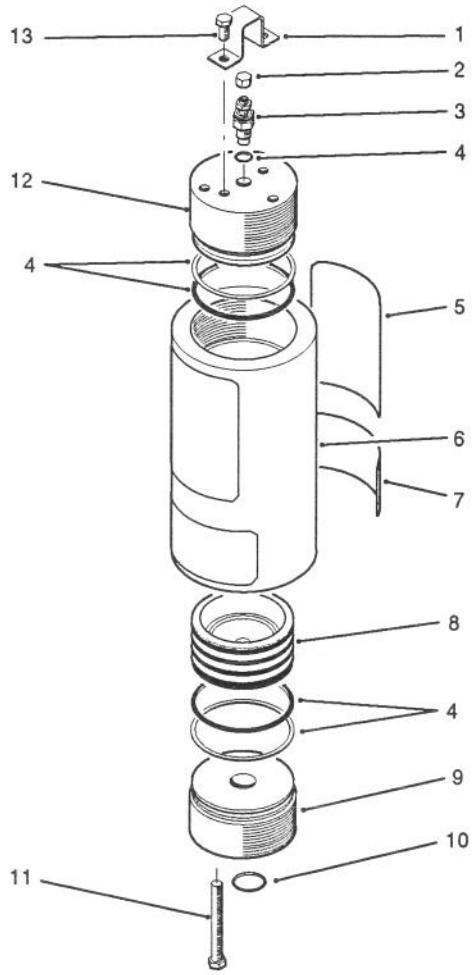
WATER MANIFOLD & VALVE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	2412-81	Clamp - R	2
2	3296-42	Nut - Lock	2
3	80-8350	Bracket - Clamp	1
4	80-6590	Clamp - Relief Valve (Incl. Ref. #10)	1
5	354-110	Fitting - Water 90°	1
6	80-8770	Tube - Water	1
7	80-7070	Relief Valve Assembly	1
8	354-92	Fitting - Reducer	1
9	354-93	Fitting - 90° Elbow	1
10		Plate - Backing	1
11	321-19	Screw - Cap Hex. Hd.	2
‡12	80-8030	Decal - Danger (English)	2
‡13	80-8880	Decal - Warning (English)	2
14	80-9190	Accumulator Assembly (Incl. Ref. #12,13, 15 & 20)	1
15	80-5784	Seal - O-Ring	2
16	323-6	Screw - Cap Hex. Hd.	4
17		Valve Assembly (Incl. Ref. #21)	1
18	80-5580	Follower - Cam	1
20	324-26	Screw - Cap Hex. Hd.	4
21	80-8680	Stud	2
22	3296-19	Nut - Lock	2
23	323-5	Screw - Cap Hex. Hd.	12

Ref. No.	Part No.	Description	No. Used
24	325-5	Screw - Cap Hex. Hd.	1
25	325-12	Screw - Cap Hex. Hd.	1
26	325-4	Screw - Cap Hex. Hd.	1
27	80-5080	Support - Manifold	1
28	80-5380	Manifold	1
29	80-5791	Seal - O-Ring	2
30	80-8220	Plug	2
31	255-12	Ball - Check	11
32	80-9710	Spring - Conical	11
33	80-6680	Washer	11
34	80-6670	Nozzle (#53) (Std.)	11
*†	80-6673	Nozzle (#46) (Opt.)	6
*†	80-6675	Nozzle (#56) (Opt.)	6
35	3234-35	Screw - Hex. Flange Hd.	22
36	80-9800	Flange - Nozzle	11
37	80-9720	Extension - Nozzle	11
38	80-5786	Seal - O-Ring	11
39	80-8210	Feeder - Manifold	1
40	80-5780	Seal - O-Ring	1
41	323-20	Screw - Cap Hex. Hd.	7
43	80-8230	Plug	1
44	80-5793	Seal - O-Ring	2
47	354-111	Fitting - Water Straight	1
48	32144-67	Screw - Cap Hex. Hd.	2
49	80-9680	Support - Feeder	1

*Not Illustrated †Refer to Product Operators Manual

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



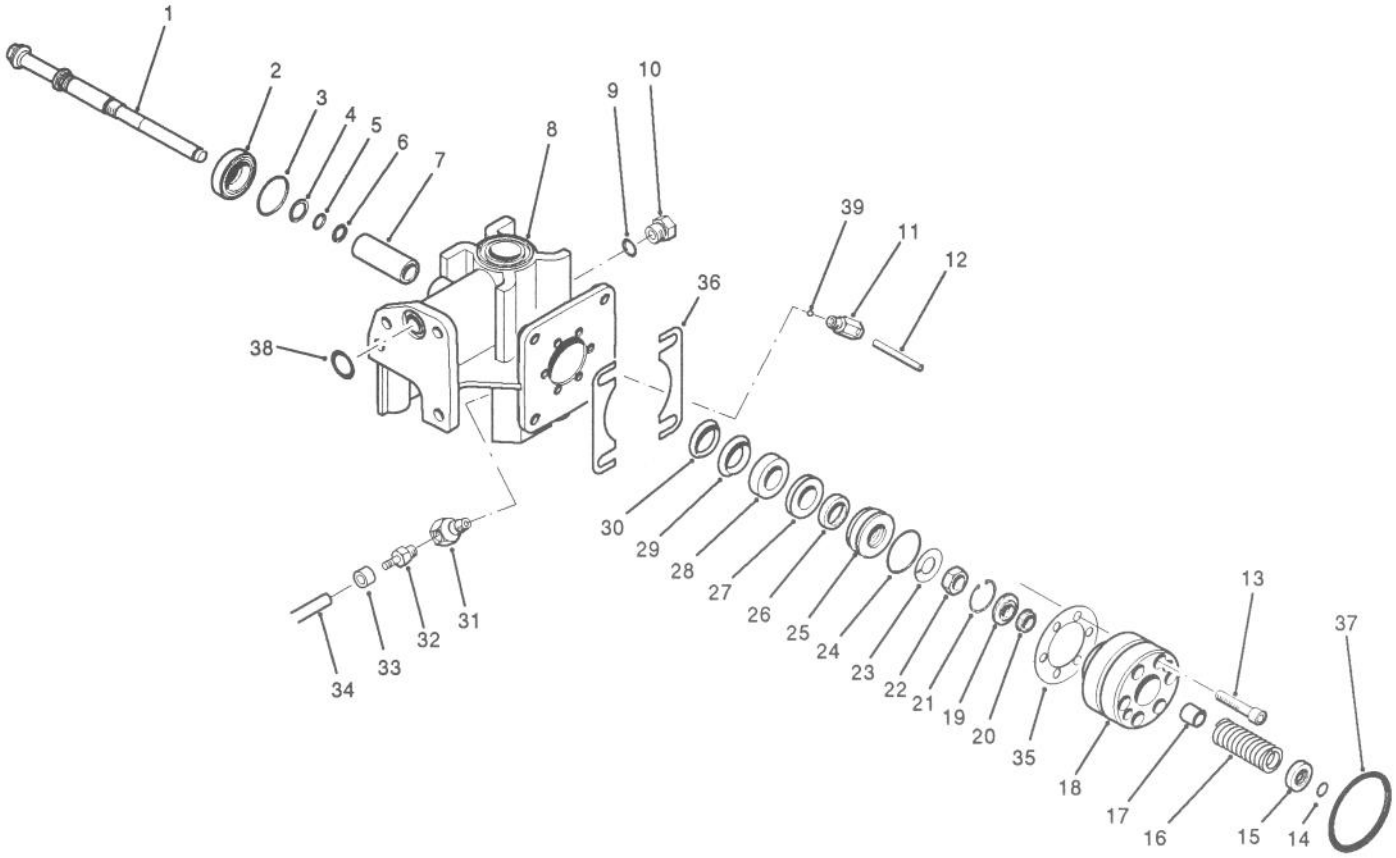
T-1257

ACCUMULATOR ASSEMBLY NO. 80-9190

Ref. No.	Part No.	Description	No. Used
1	80-9020	Protector - Valve	1
2	80-8970	Cap - Valve	1
3	80-9000	Valve - Gas	1
4	80-8990	End Seal/Back-Up Ring Kit	1
‡5	80-8030	Decal - Danger (English)	2
6		Body	1
‡7	80-8880	Decal - Warning (English)	2

Ref. No.	Part No.	Description	No. Used
8	80-8980	Piston Assembly	1
9	80-9040	Cap - Water End	1
10	80-5784	Seal - O-Ring	1
11	324-26	Screw - Cap Hex. Hd.	4
12	80-9030	Cap - Gas End	1
13	323-4	Screw - Cap Hex. Hd.	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.

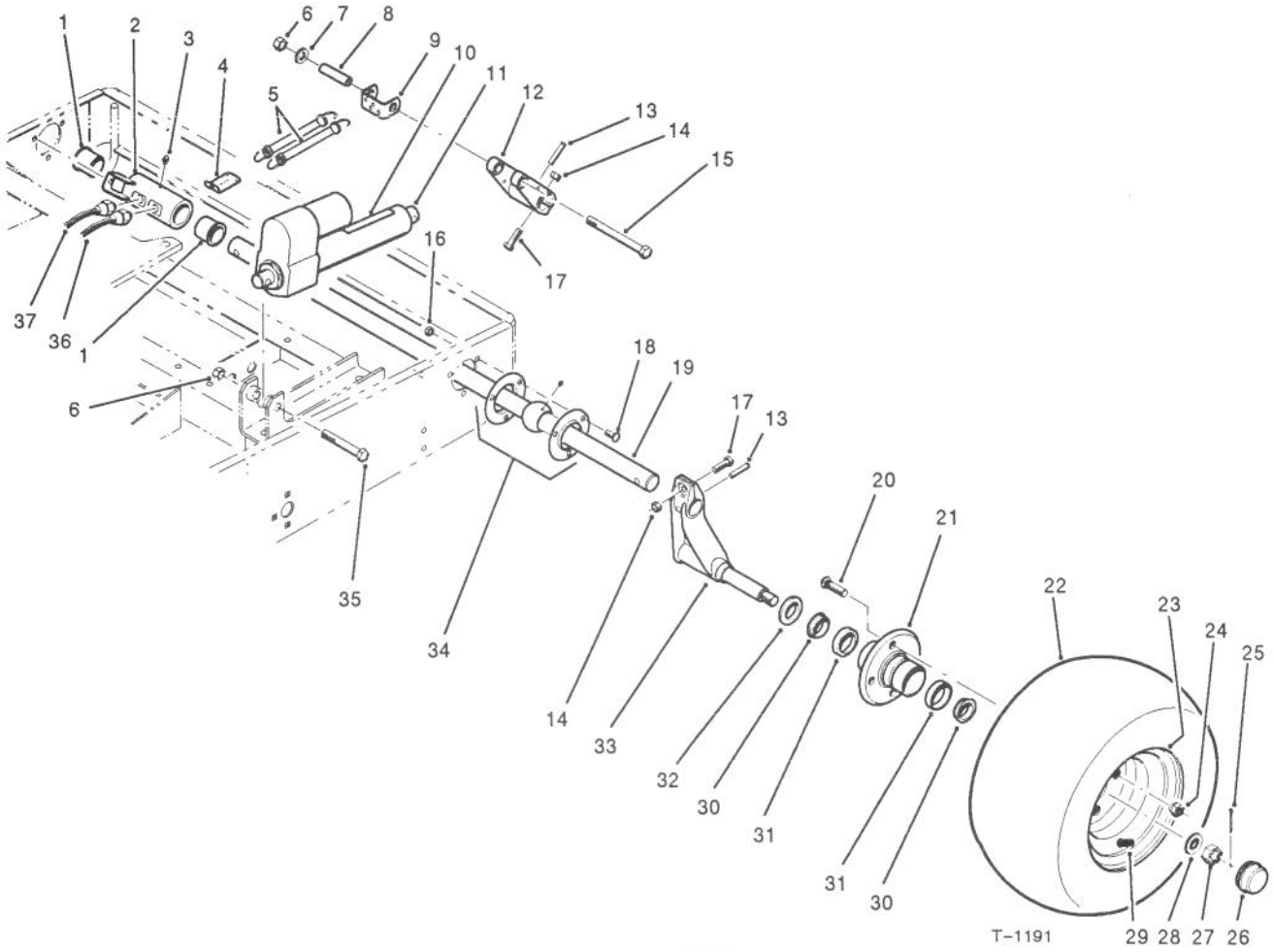


T-1206

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	14-5269	Body - Valve	1
9	80-5794	Seal - O-Ring	1
10	354-82	Plug	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

Ref. No.	Part No.	Description	No. Used
27	80-9390	Guide - Valve	1
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

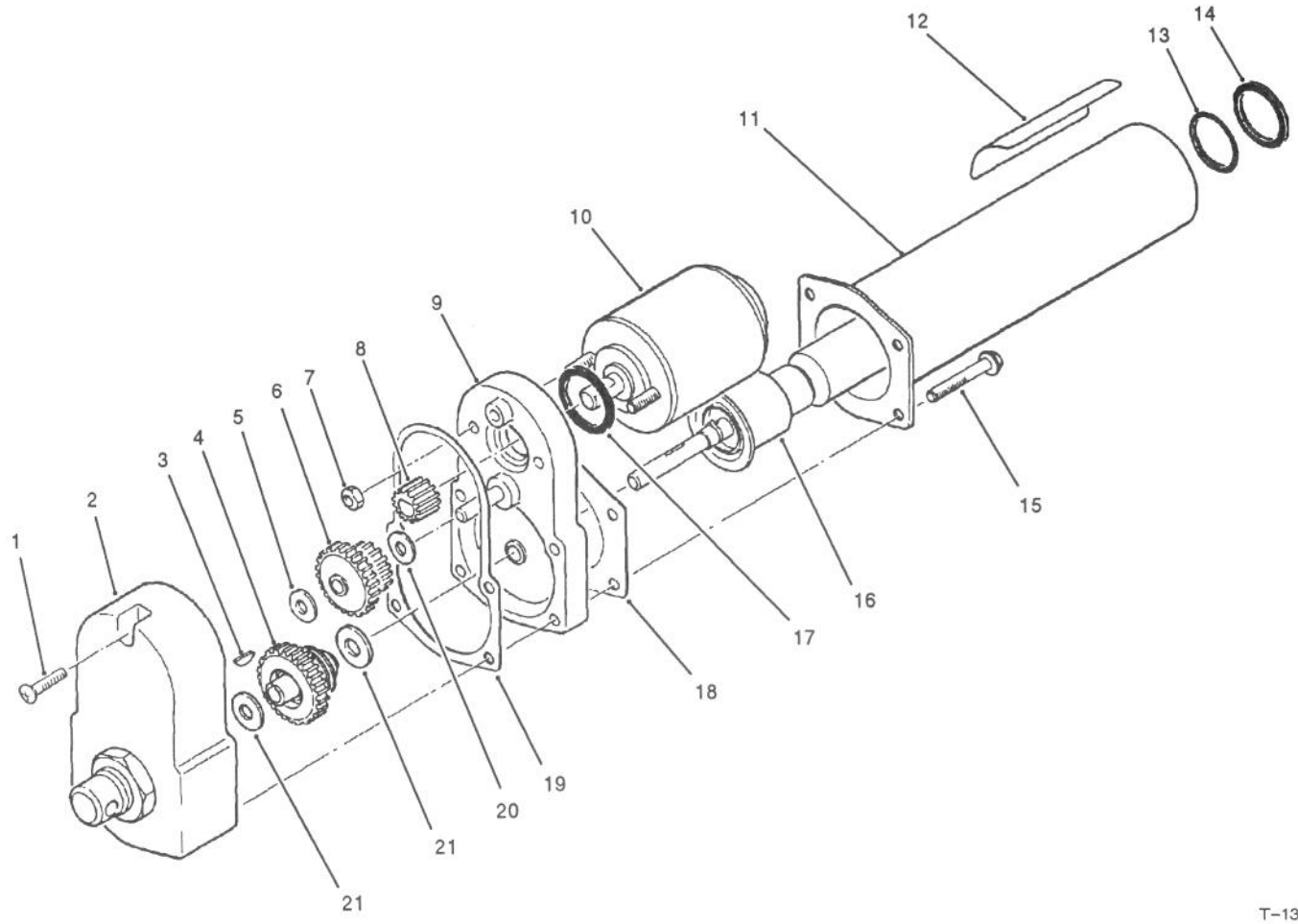


REAR AXLE ASSEMBLY

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

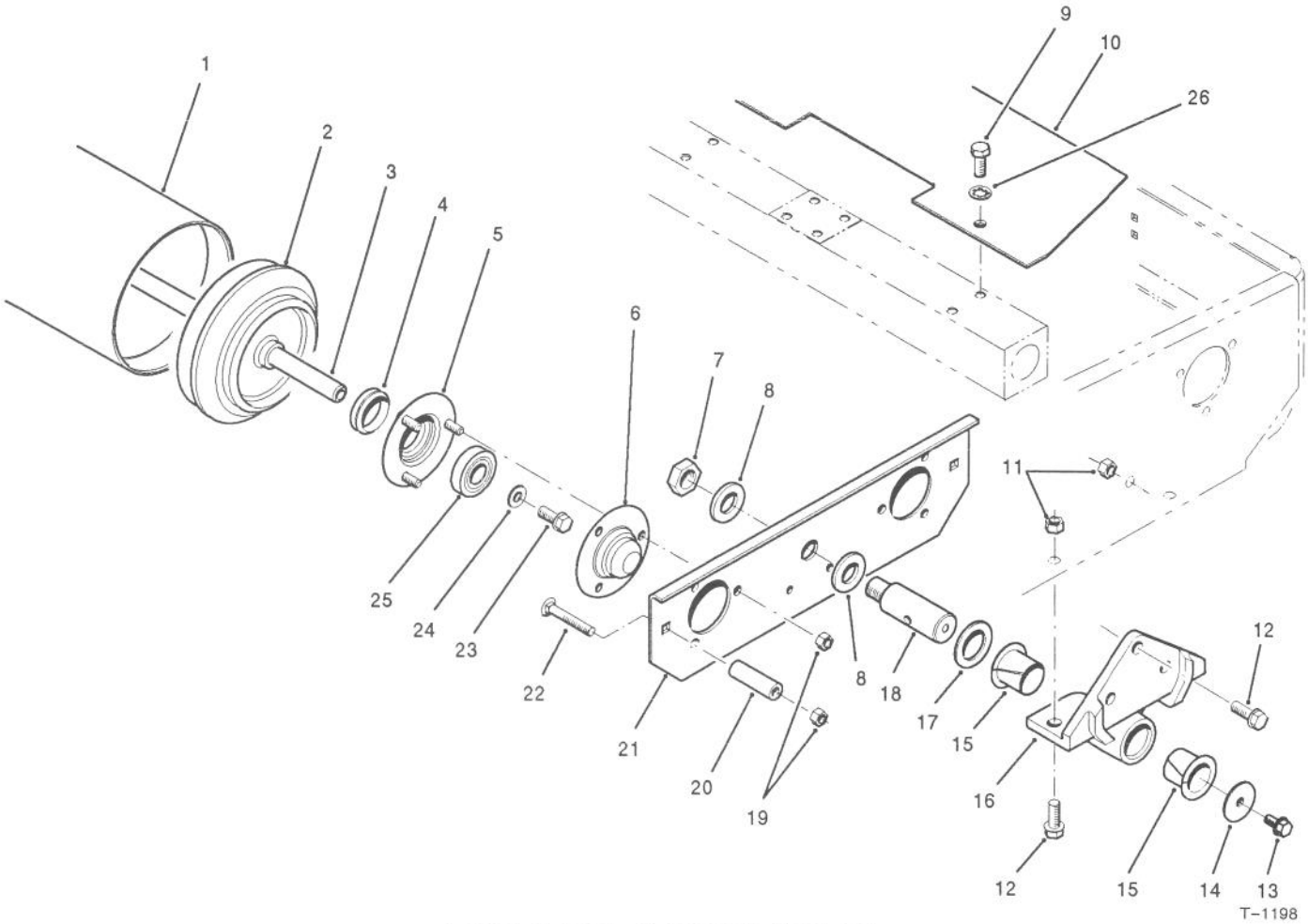
LIFT ACTUATOR ASSEMBLY NO. 14-5219

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		Gasker - Housing	1
20		Washer	1
21		Washer	2
*	80-5550	Seal Kit (Incl. Ref. #1, 7, 13-15 & 17-19)	1

*Not Illustrated

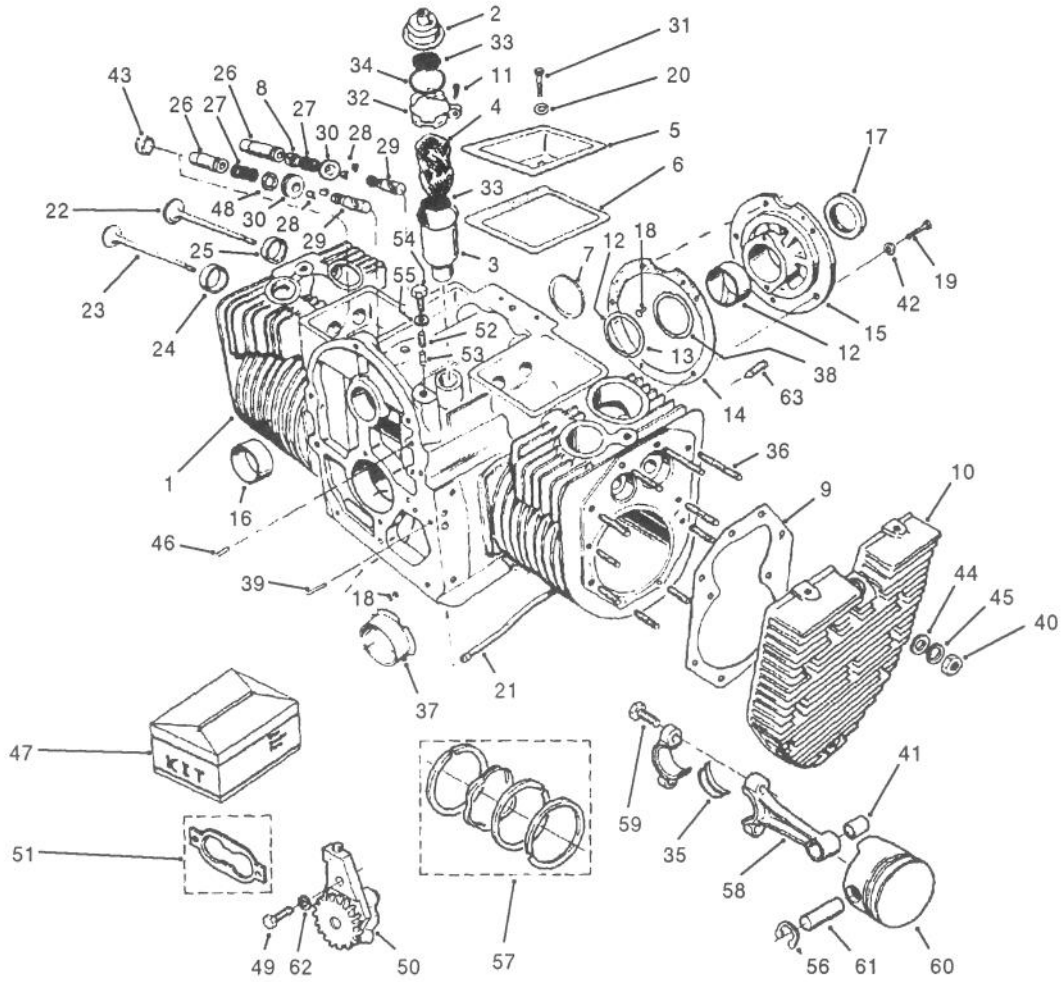
‡For different language versions of this part, see International Decal Cross Reference.



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



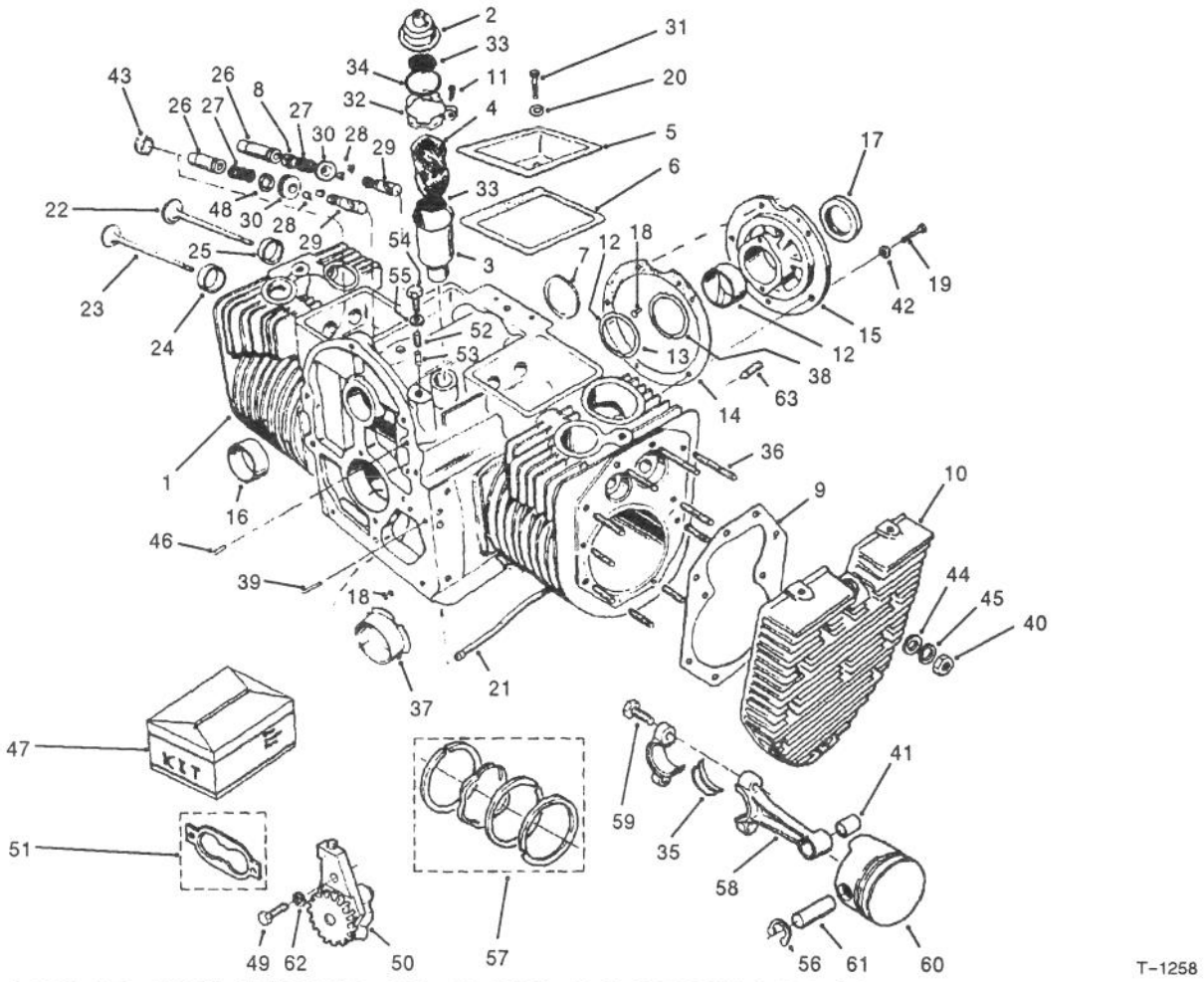
T-1258

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

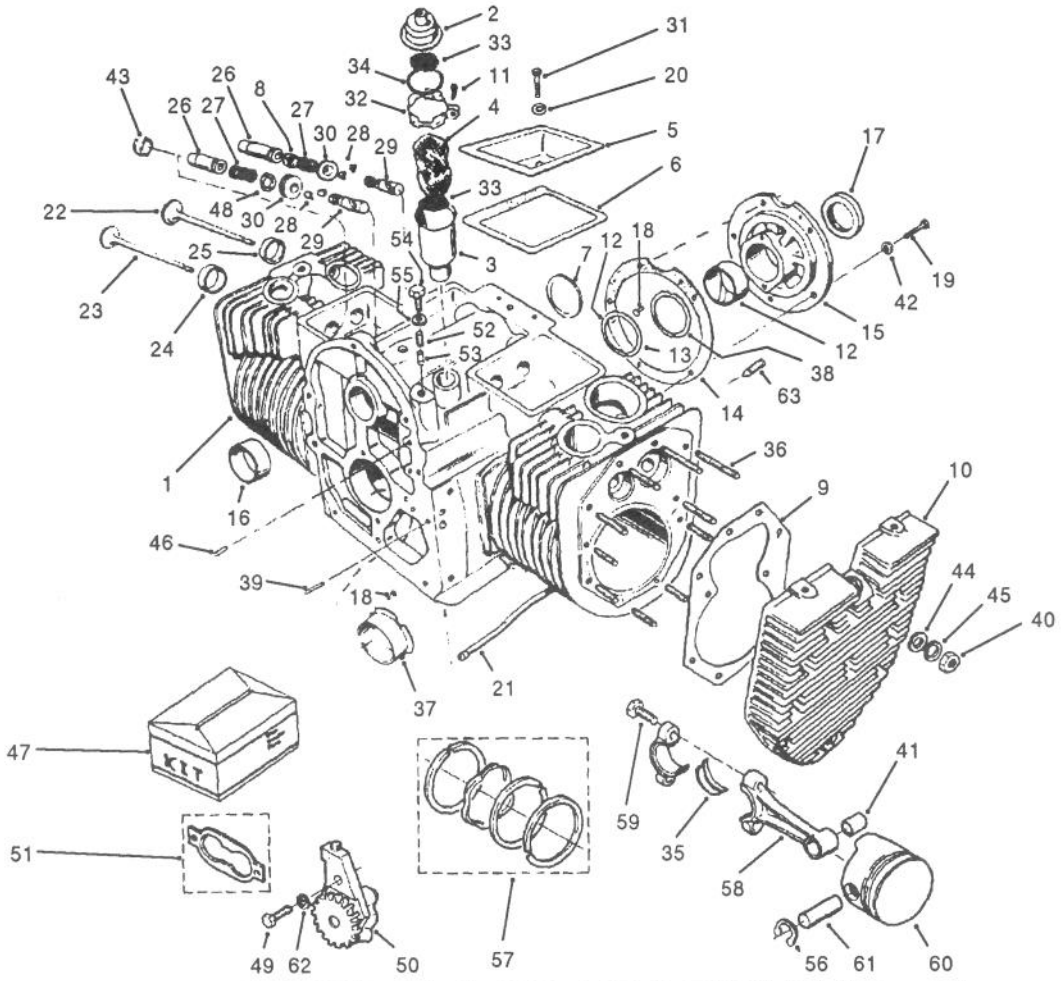


ENGINE CYLINDER BLOCK ASSEMBLY (Continued)

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

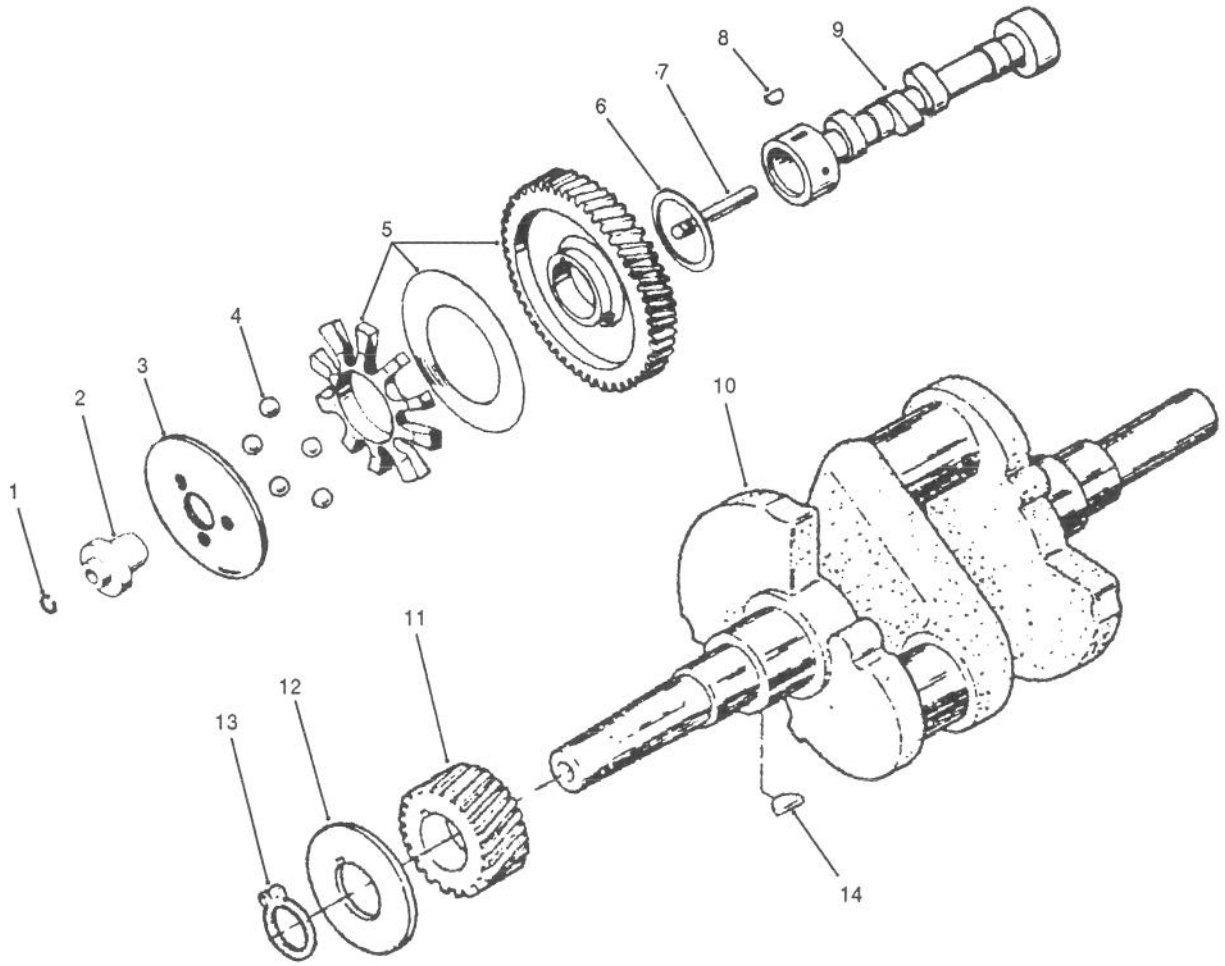


ENGINE CYLINDER BLOCK ASSEMBLY (Continued)

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

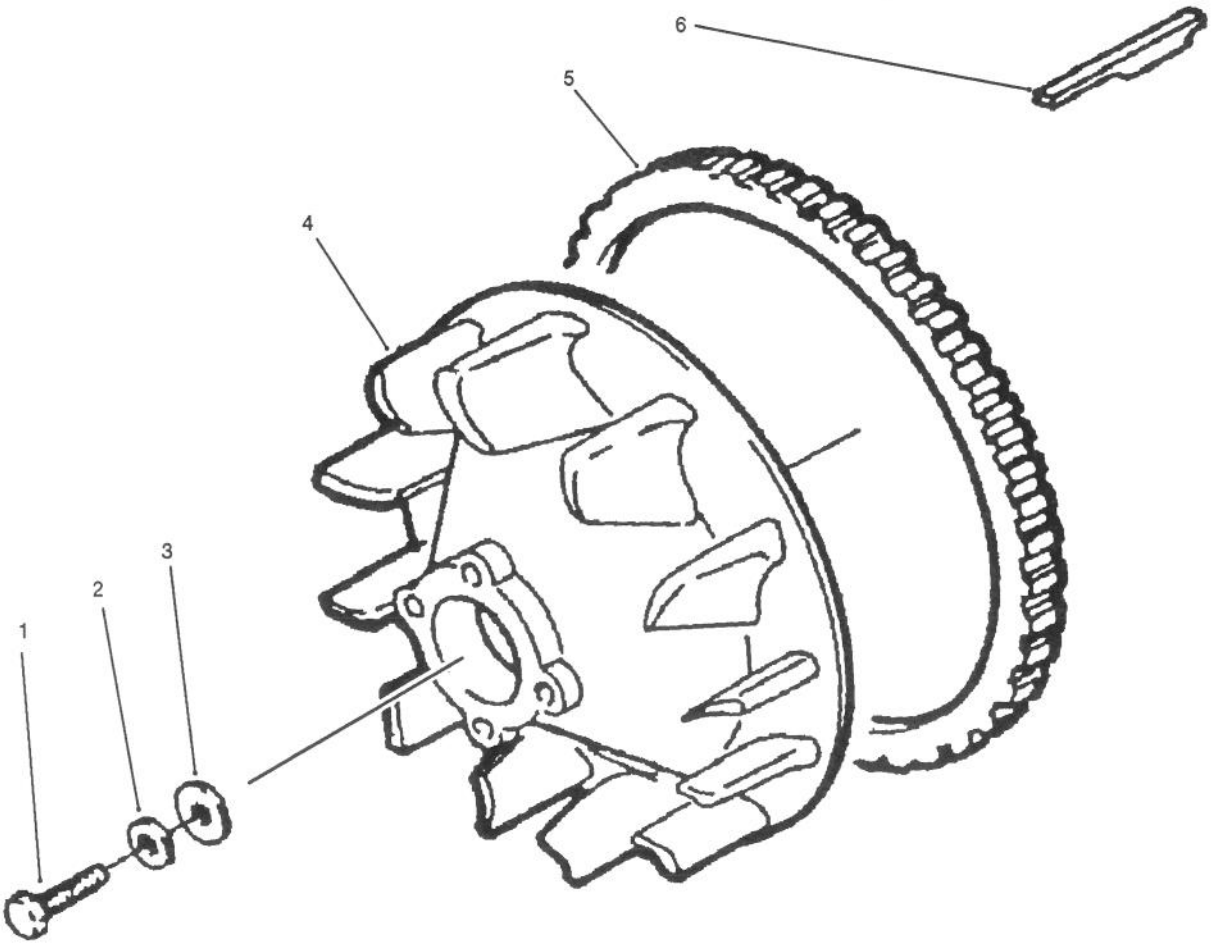


T-1259

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

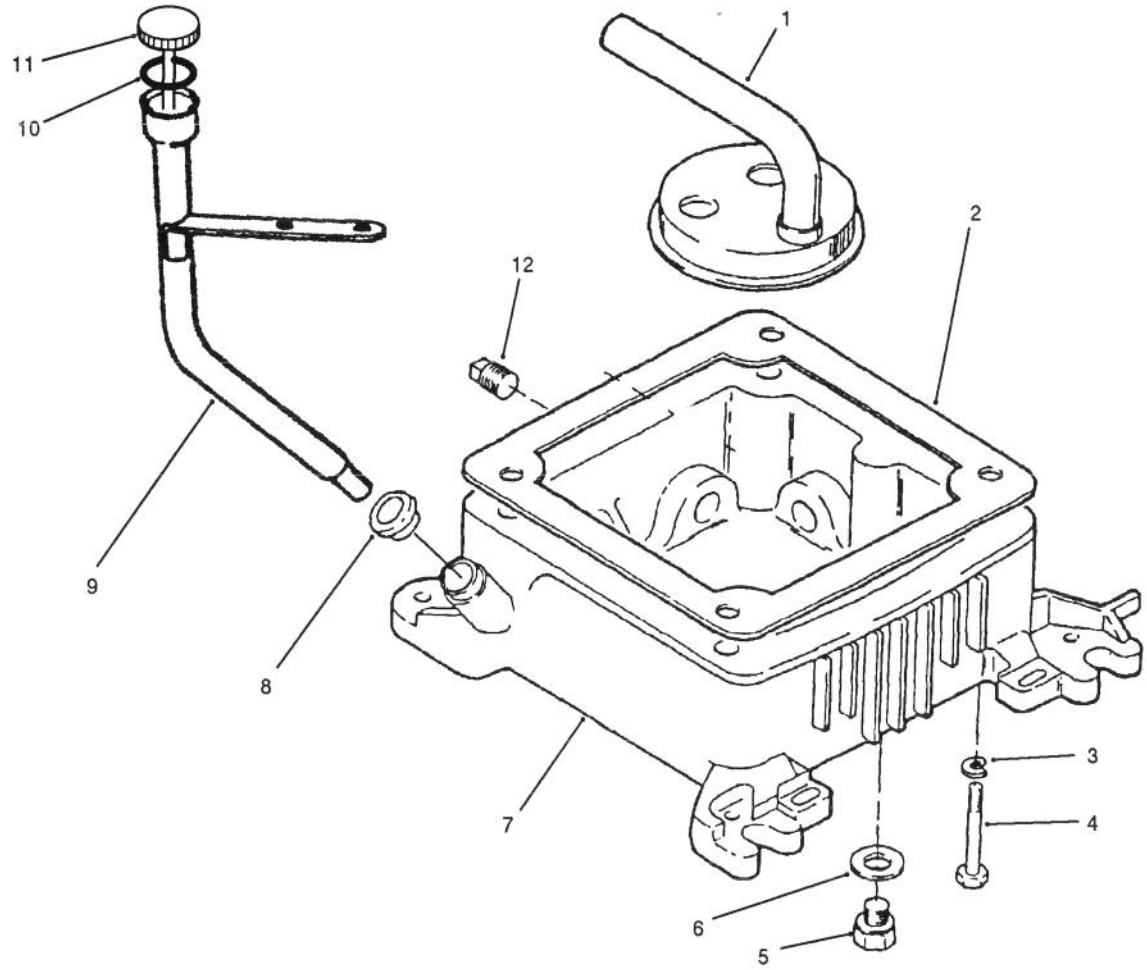


T-1260

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

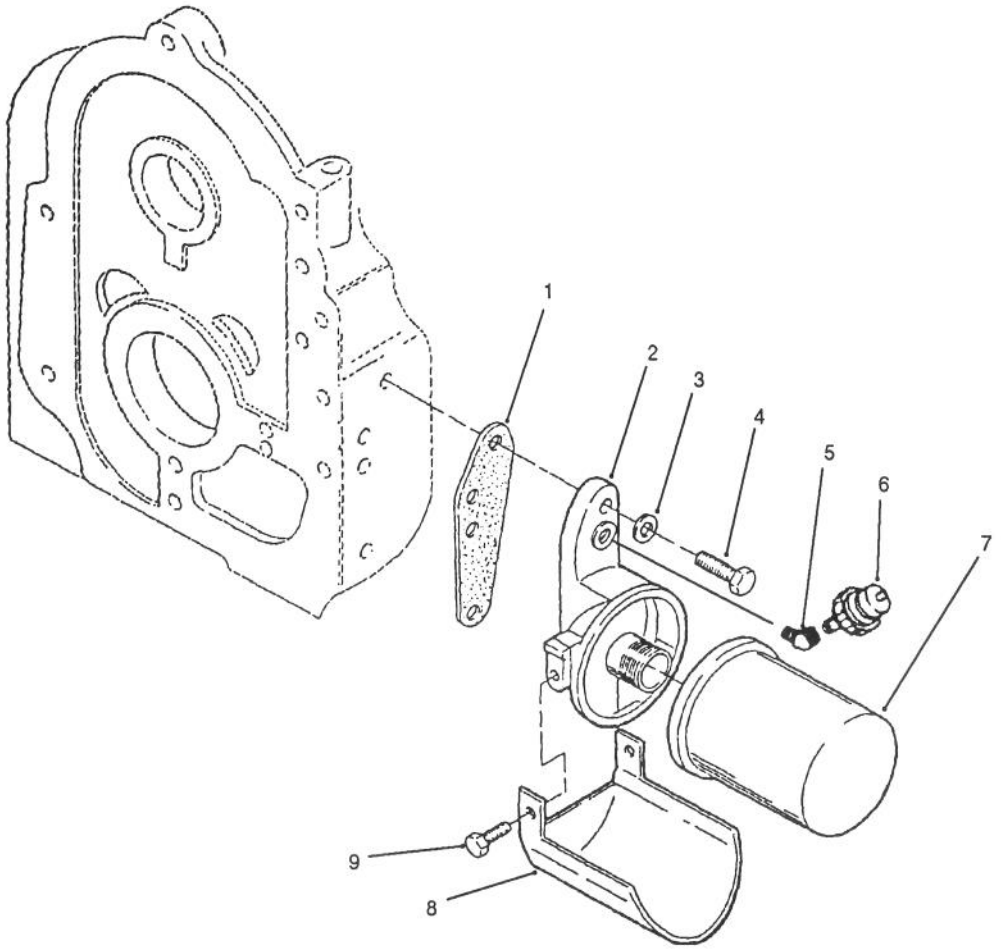


T-1261

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

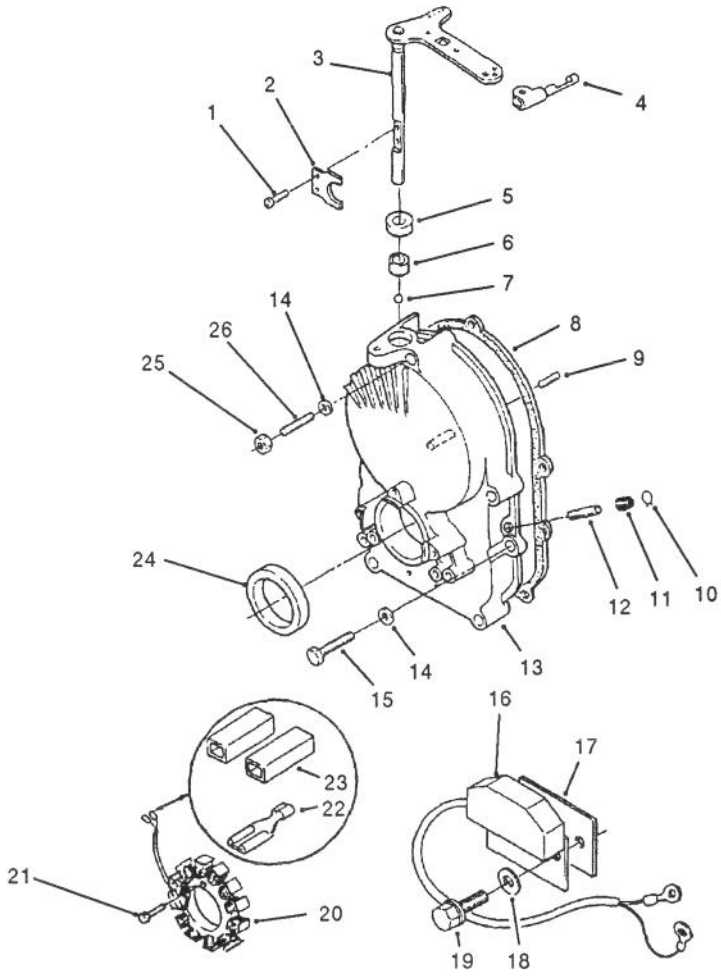


T-1262

ENGINE OIL FILTER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	82-0520	Gasket - Oil Filter Adaptor	1
2	80-0500	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

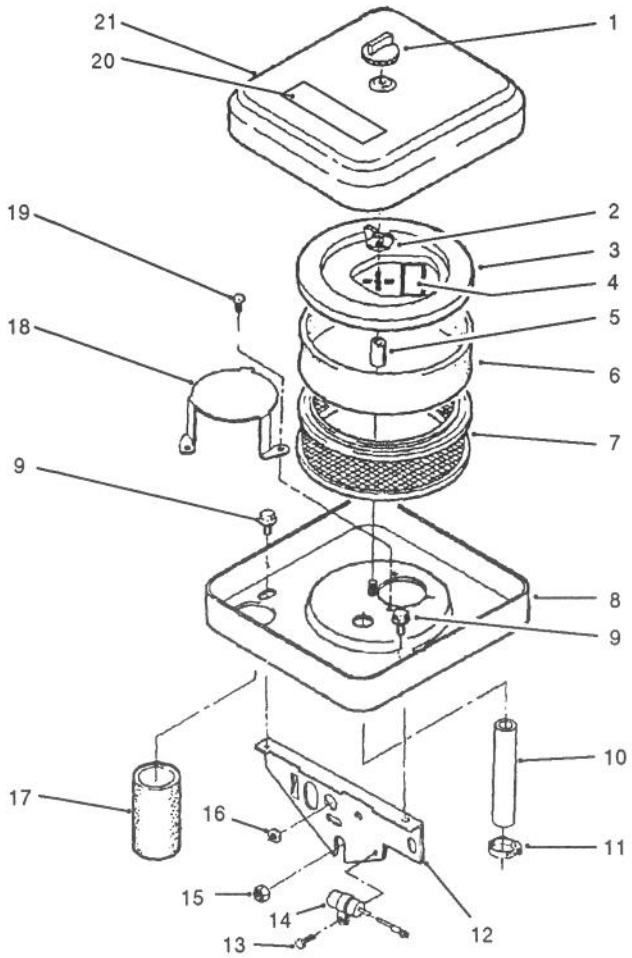
Ref. No.	Part No.	Description	No. Used
6	57-9490	Switch - Low Oil Pressure	1
7	57-8530	Filter - Oil	1
8	82-0510	Drain - Oil Filter	1
9	82-1510	Screw - Cap Hex. Hd.	2



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

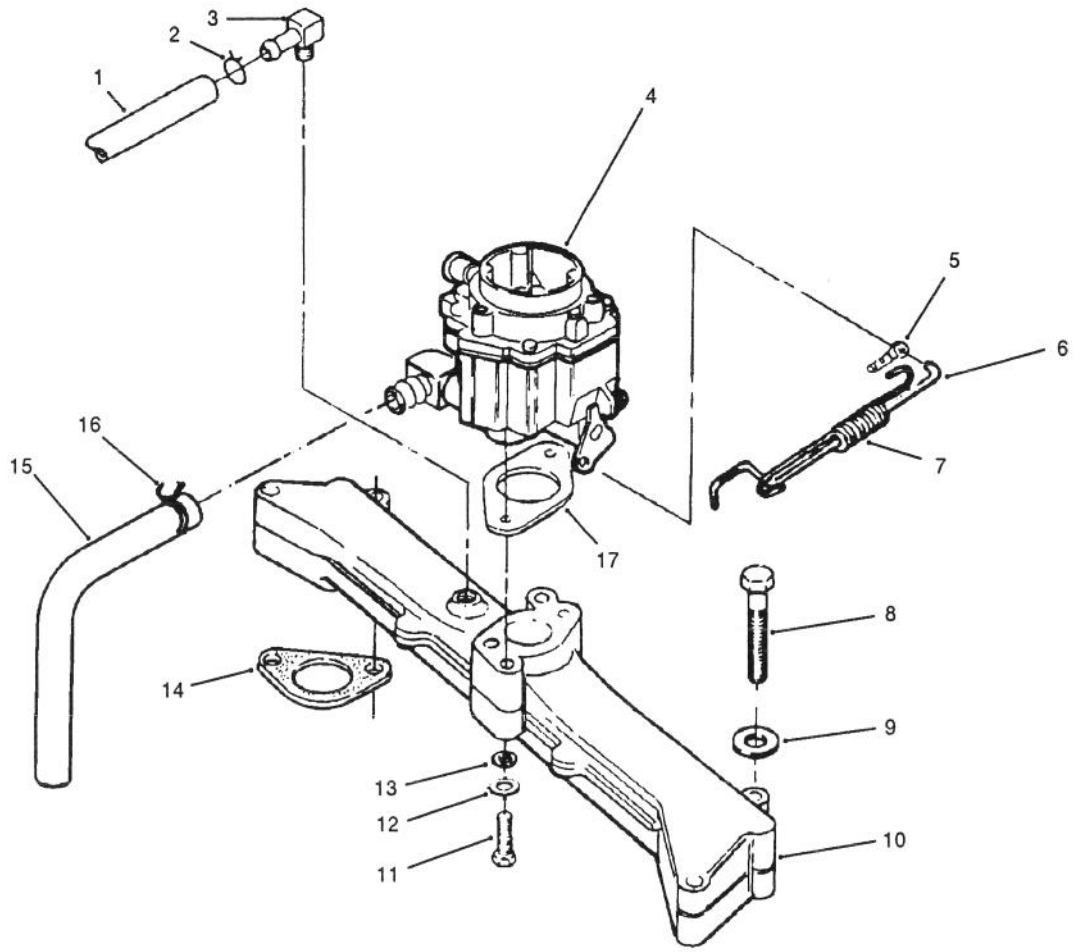


T-1264

ENGINE AIR CLEANER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	82-1760	Knob	1
2	82-1670	Nut - Wing	1
3	82-0650	Cover - Inner	1
4	82-0010	Decal - Air Cleaner Maint.	1
5	82-0980	Spacer/Seal	1
6	82-0670	Wrapper - Element	1
7	82-0660	Element - Air Cleaner	1
8	82-0710	Housing - Air Cleaner	
9	82-1550	Screw - Tapping	2
10	82-1120	Hose - Breather	1
11	82-1090	Clamp - Hose	1

Ref. No.	Part No.	Description	No. Used
12	82-0720	Support - Air Cleaner	1
13	71-6450	Screw - Hex. Hd.	1
14	59-1180	Condenser	1
15	82-1690	Nut - Hex. Washer Hd.	1
16	71-6140	Grommet - Rubber	1
17	82-0700	Tube - Air Intake	1
18	82-0730	Plate - Air Deflector	1
19	82-1770	Screw - Hex. Washer Hd.	3
20	82-1570	Decal - Performer	1
21	82-0690	Cover - Air Cleaner	1

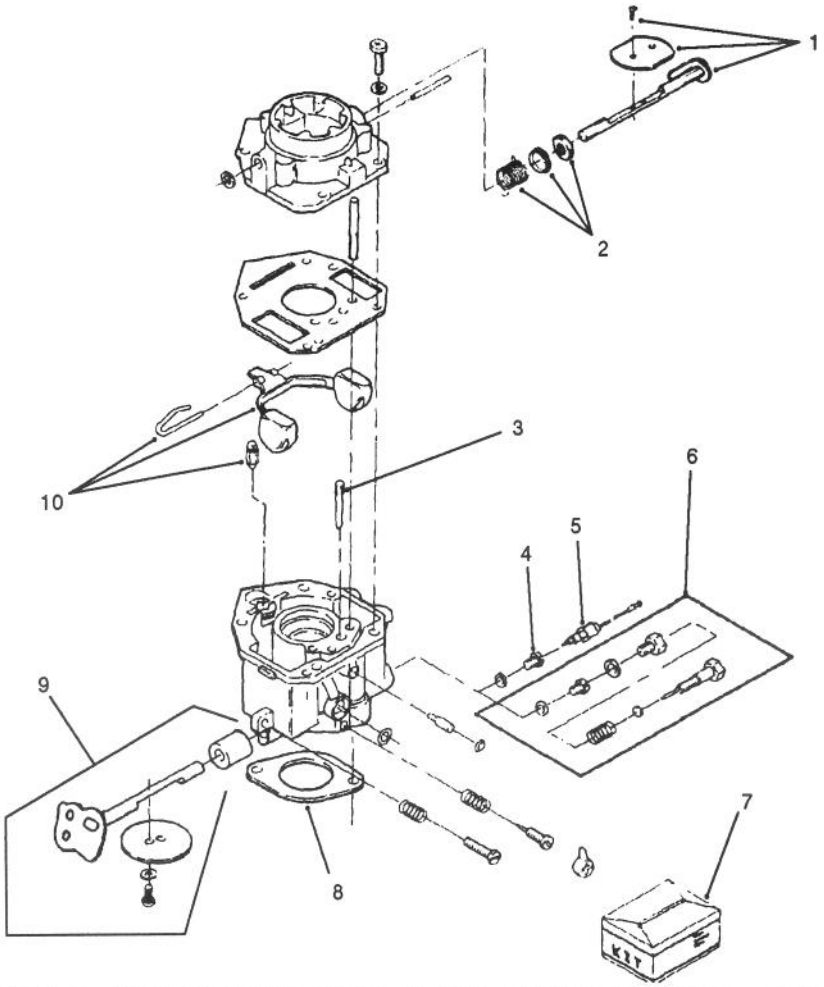


T-1265

ENGINE FUEL SYSTEM ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	82-1120	Hose - Breather	1
2	82-1090	Clamp - Hose	1
3	82-1070	Fitting - 90° Elbow	1
4	82-0770	Carburetor Assembly (Incl. Ref. #17)	1
5	57-9700	Clip - Retaining	1
6	82-0840	Rod - Governor Control	1
7	82-1740	Spring - Governor Rod	1
8	323-14	Screw - Cap Hex. Hd.	4

Ref. No.	Part No.	Description	No. Used
9	82-1310	Washer - Flat	4
10	82-0670	Manifold - Intake	1
11	322-12	Screw - Cap Hex. Hd.	2
12	82-1350	Washer - Flat	2
13	82-1340	Washer - Flat	2
14	82-0860	Gasket - Manifold	2
15	82-1100	Hose - Fuel (Cut to 15")	1
16	82-1080	Clamp - Hose	2
17	82-0850	Gasket - Carburetor	1



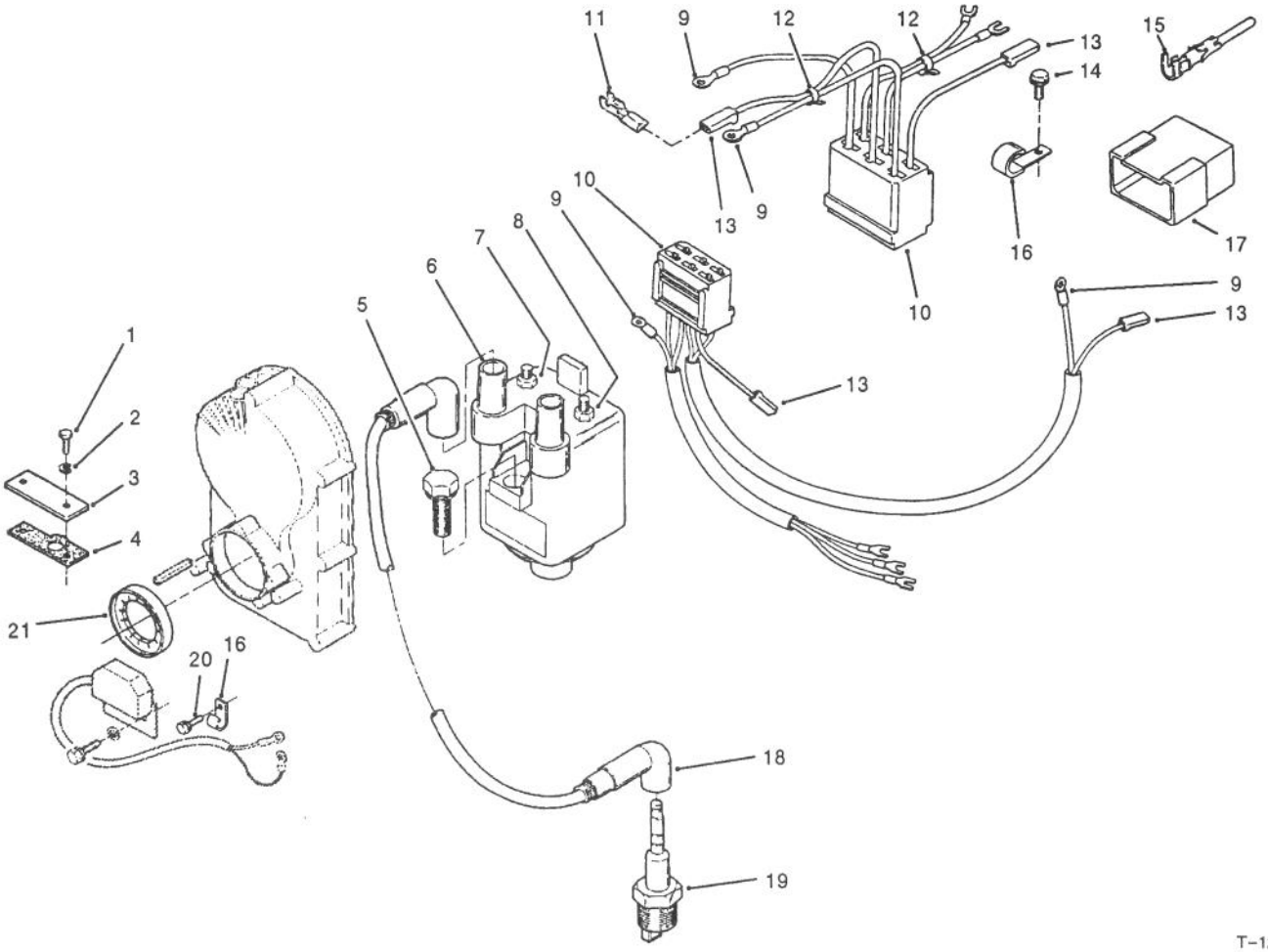
T-1266

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



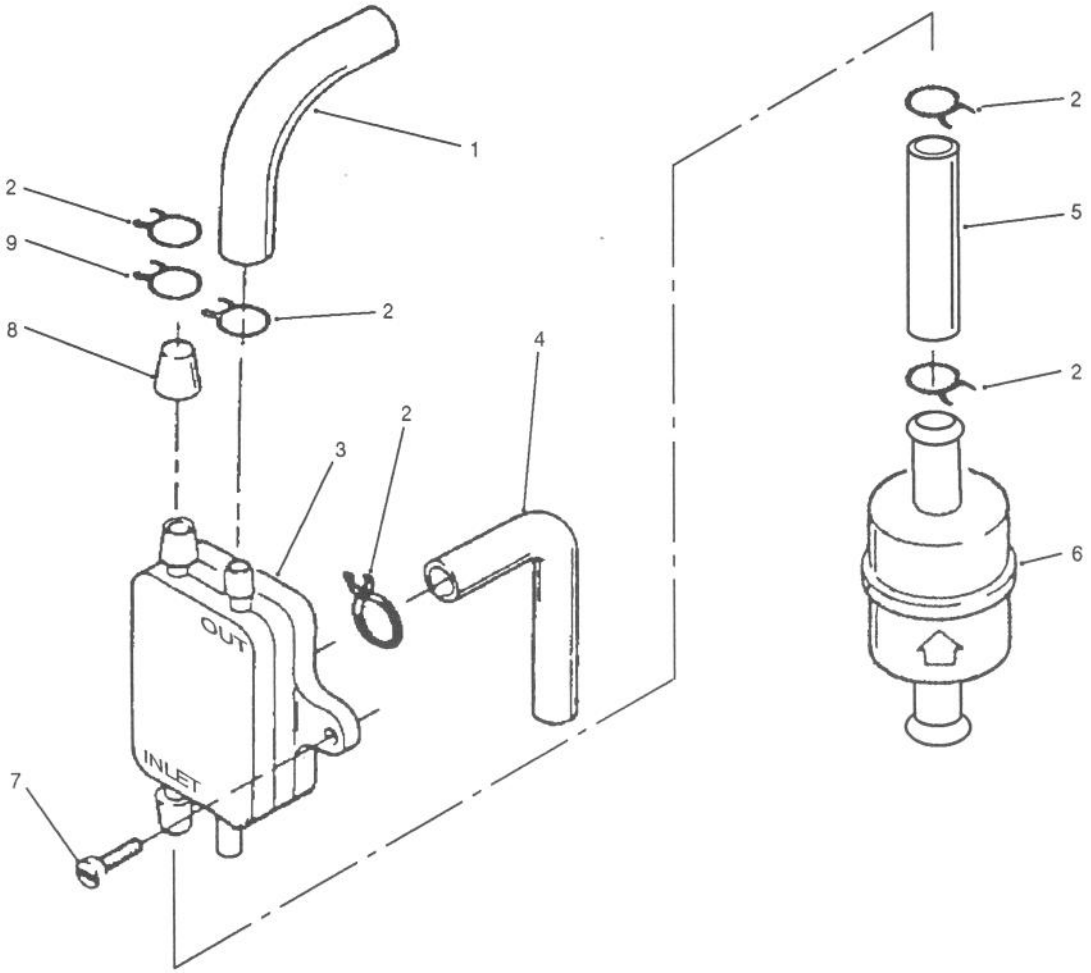
T-1267

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

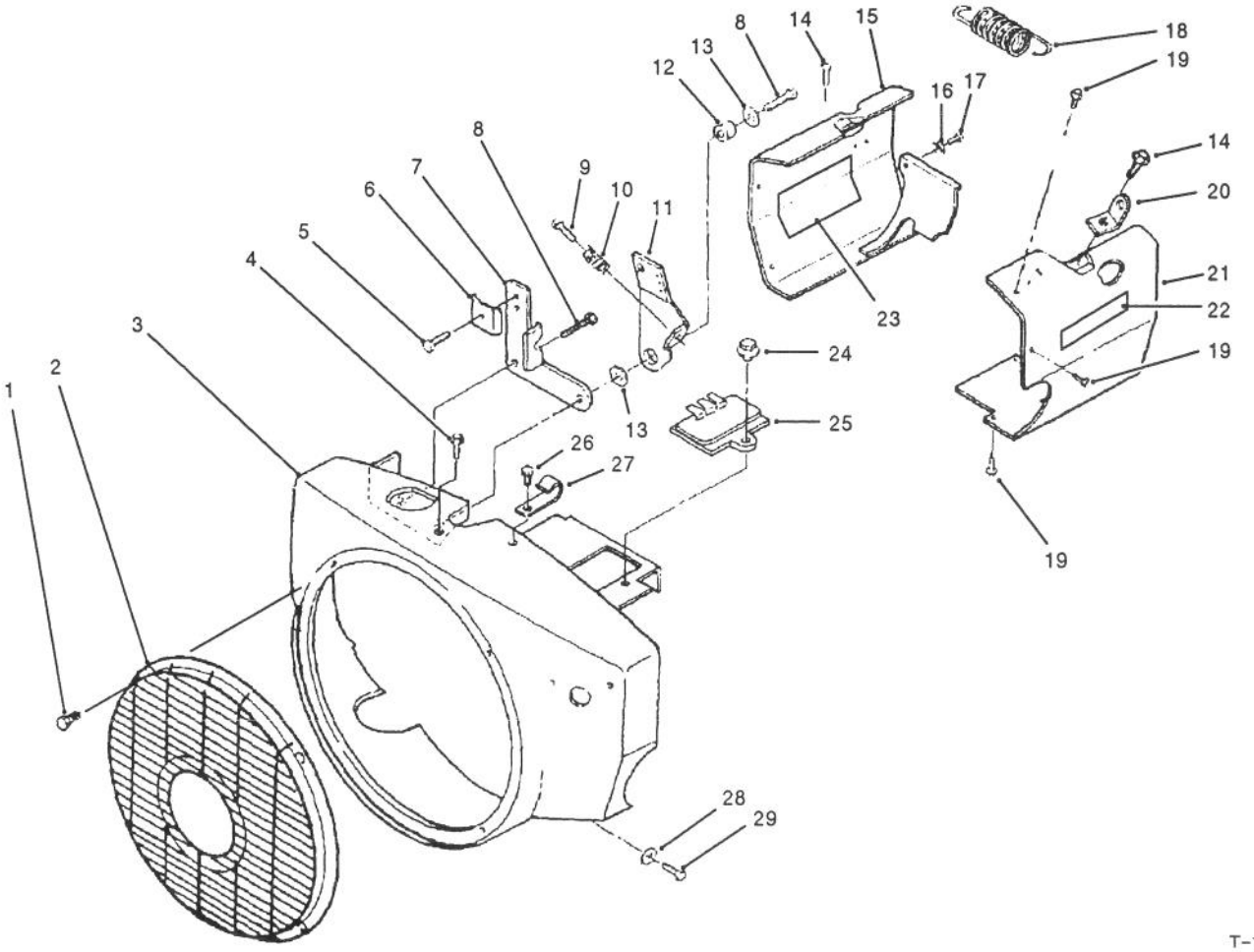


T-1268

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

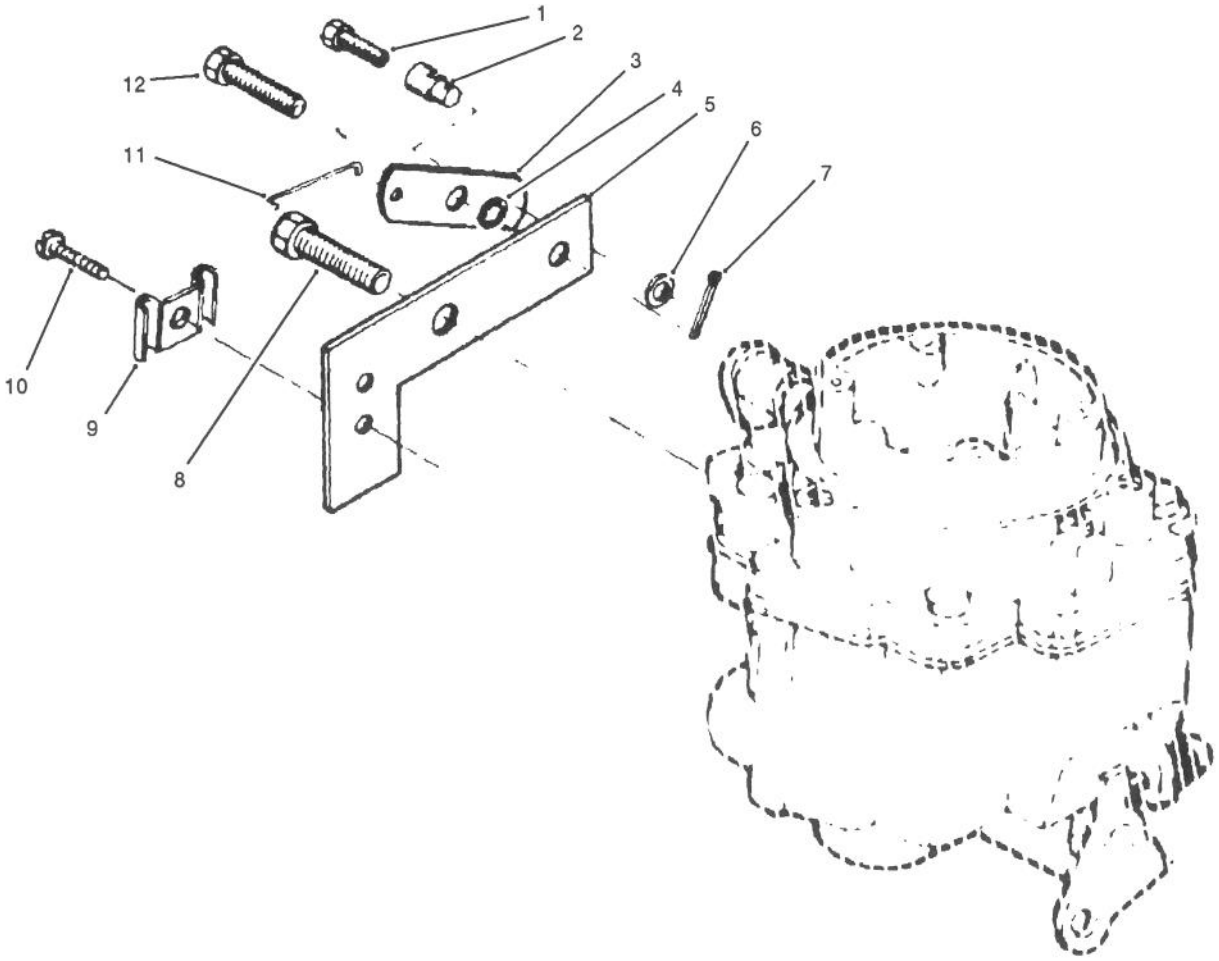


T-1269

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
22	82-1570	Decal - Performer	2
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



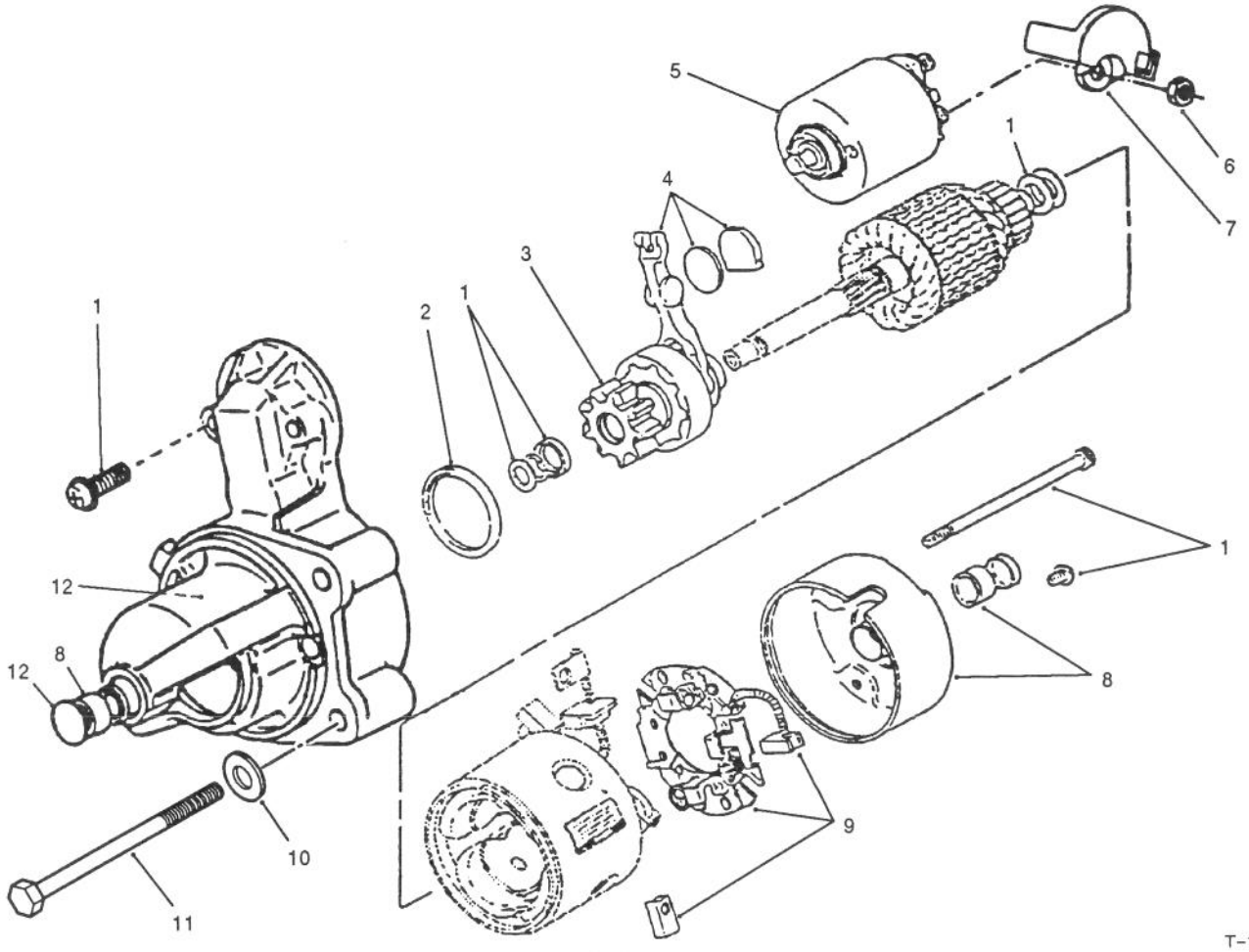
T-1270

ENGINE CHOKE CONTROL ASSEMBLY

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

*Not Illustrated



T-1271

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
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
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
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 (Continued)

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
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
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 (Continued)

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
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
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

PART NUMBER INDEX

Part No.	Description	Pg. No.	Ref. No.	Qty.
3-6498	Washer - Thrust	17	12	1
3-6781	Washer - Thrust	28	17	2
7-0238	Key - Clutch	13	4	1
10-6820	Hub & Drum Assembly	3	18	1
10-6830	Stud - Drive	1	32	3
10-6830	Stud - Drive	3	25	4
10-6830	Stud - Drive	26	20	8
10-6870	Hub - Wheel	3	19	1
10-8000	Bracket - Brake Plate	3	29	2
11-9030	Screw - Shoulder	1	25	1
14-5169	Shield - Drive	13	19	1
14-5179	Arm - Steering	3	37	1
14-5189	Frame	8	4	1
14-5199	Cover - Control	1	6	1
14-5209	Mount - Pump	17	6	1
14-5219	Lift Actuator Assembly	26	11	1
14-5229	Guard - Muffler	12	11	1
14-5239	Guard - Muffler L.H.	12	19	1
14-5249	Guard - Muffler R.H.	12	*	1
14-5259	Valve Assembly	10	36	1
14-5269	Body - Valve	25	8	1
14-5289	Head - Pump	20	2	1
14-5289	Head - Pump	22	11	1
14-5299	Pump Crankcase Assembly	20	1	1
14-5299	Water Pump Crankcase	21	*	1
26-3790	Nut - Spindle	3	22	1
27-2360	Switch - Ignition	10	41	1
28-3680	Tire	3	20	1
28-3680	Tire	26	22	2
29-6162	Switch - Micro	17	31	2
40-8200	Switch - Micro	2	34	1
42-3560	Bolt - Shoulder	11	28	2
42-3560	Bolt - Shoulder	20	12	1
44-8320	Spring - Compression	14	2	3
47-2961	Hose - Fuel	5	9	1
47-2961	Hose - Fuel	12	30	1
52-5980	Spacer	12	36	2
54-0100	Head - Oil Filter	10	24	1
57-8000	Bearing - Camshaft	29	16	2
57-8010	Gasket - Bearing Plate	29	14	1
57-8020	Bearing - Flanged (Std.)	30	37	1
57-8030	Bearing - Flanged	30	*	1
57-8050	Bearing - Crank (Std.)	29	12	1
57-8060	Bearing - Crank (.010" US)	29	*	1
57-8070	Gasket - Plug	34	6	1
57-8130	Gear - Crankshaft	32	11	1
57-8140	Washer - Gear Retaining	32	12	1
57-8150	Screw - Cap Hex. Hd.	33	1	1
57-8160	Washer - Thrust	29	13	2
57-8170	Shim - Crankshaft	30	38	A/R
57-8180	Gear - Ring	33	5	1
57-8210	Camshaft Gear Assembly	32	5	1
57-8230	Washer - Thrust	32	6	1
57-8250	Spring - Valve	29	27	4
57-8270	Rotator - Valve	30	30	2
57-8450	Tappet - Valve	30	29	4
57-8460	Gasket Kit - Oil Pump	30	51	1
57-8470	Plunger - Bypass Valve	30	53	1
57-8480	Oil Pump Assembly	30	50	1
57-8500	Spring - Bypass Valve	30	52	1
57-8530	Filter - Oil	35	7	1
57-8580	Baffle - Breather Tube	29	4	1
57-9080	Pump - Fuel	41	3	1
57-9090	Ring - Retaining	32	1	1
57-9100	Spring - Governor	42	18	1
57-9120	Bushing - Control Arm	42	12	1
57-9130	Hub - Governor Cup	32	2	1
57-9140	Arm - Governor Control	42	11	1
57-9150	Bracket - Cable	42	7	1
57-9170	Swivel - Choke Lever	43	2	1
57-9180	Link - Choke	43	11	1
57-9190	Clamp - Cable	42	6	1
57-9190	Clip - Choke Cable	43	9	1
57-9260	Gasket - Plate	40	4	1
57-9340	Plug - Spark	40	19	2
57-9360	Bearing - Flanged	30	*	1
57-9440	Stator - 20 Amp.	36	20	1
57-9490	Switch - Low Oil Pressure	35	6	1
57-9500	Seal - Governor Shaft	36	5	1
57-9550	Clamp - Cap	36	10	1
57-9550	Clamp - Hose	41	9	1
57-9580	Seal - Crankshaft	36	24	1
57-9590	Seal - Oil	29	17	1
57-9610	Seal - O-Ring	34	10	1
57-9630	Ball - Governor Shaft	36	7	1
57-9640	Ball - Governor	32	4	5
57-9650	Bearing - Governor Shaft	36	6	1
57-9660	Key - Crankshaft Gear	32	14	1
57-9660	Key - Woodruff	32	8	1
57-9700	Clip - Retaining	38	5	1
57-9710	Ring - Retaining	32	13	1
57-9730	Clip - Retaining	36	4	1
57-9740	Washer - Flat	29	20	2
57-9750	Washer - Flat	35	3	2
57-9750	Washer - Flat	36	14	5
57-9760	Washer - Flat	31	55	1
57-9770	Washer - Mounting Screw	44	10	2
57-9800	Bearing - Flanged	30	*	1
59-0010	Bearing - Flanged	30	*	1
59-0020	Bearing - Crank (.002" US)	29	*	1
59-0030	Bearing - Crank (.020" US)	29	*	1
59-0040	Bearing - Crank (.030" US)	29	*	1
59-0360	Tube - Vacuum Port	36	12	1
59-0370	Cap - Vacuum Port	36	11	1
59-0370	Fitting - Cap	41	8	1
59-0400	Pin - Center	32	7	1
59-0420	Yoke - Governor Shaft	36	2	1
59-0430	Spring - Idle Setting	42	10	1
59-0440	Shaft/Arm - Governor	36	3	1
59-0450	Cup - Governor	32	3	1
59-0460	Lever - Choke	43	3	1
59-0470	Bracket - Choke Cable	43	5	1
59-0590	Terminal - Stator Leads	36	22	3
59-0640	Fitting - 45° Elbow	35	5	1
59-0720	Pin - Cotter	43	7	1
59-0730	Pin - Bearing Stop	29	18	4
59-0740	Pin - Dowel	36	9	1
59-0750	Pin - Alignment	30	39	2
59-0760	Plug - Hole	30	46	1
59-0770	Breather Hole Plug	31	*	1
59-0790	Stud - Cover	36	26	1
59-0810	Washer - Flat	33	3	1
59-0820	Washer - Flat	42	28	4
59-0830	Washer - Flat	42	13	2
59-0830	Washer - Flat	42	16	2
59-0850	Washer - Flat	43	6	2
59-0910	Screw - Cap Hex. Hd.	30	54	1
59-0950	Screw - Pan Hd.	36	1	2
59-0980	Screw - Tapping	42	17	2
59-1010	Screw - Hex. Washer Hd.	42	8	2
59-1020	Screw - Shoulder	43	12	1
59-1030	Screw - Tapping	42	9	1
59-1050	Screw - Tapping Pan Hd.	41	7	2
59-1080	Screw - Hex. Flange Hd.	42	24	1
59-1080	Screw - Hex. Washer Hd.	42	19	4
59-1100	Screw - Hex. Washer Hd.	42	4	2
59-1130	Nut - Hex.	36	25	1
59-1180	Condenser	37	14	1
61-1990	Washer - Steering	8	6	1
62-2730	Starter Bushing Kit	44	8	1
62-2740	Starter Brush Kit	44	9	1
62-2750	Brush Mounting Kit	44	12	1
62-2760	Starter Hardware Kit	44	1	1
62-2770	Starter Shift Lever Kit	44	4	1
62-2800	Float Assembly	39	10	1
63-8360	Key - Ignition	10	9	1
63-8410	Washer	5	35	4
65-4500	Seal - Snap Ring	4	14	1
65-4550	Valve - Check Ball	4	6	2

*Not Illustrated

PART NUMBER INDEX (Continued)

Part No.	Description	Pg. No.	Ref. No.	Qty.
65-4560	Plug - Hex. Hollow	4	3	1
65-4570	Seal - Square Ring	4	4	2
65-4600	Washer - Thrust	4	19	2
65-4610	Bearing - Thrust	4	20	1
65-4620	Seal - O-Ring	4	12	1
65-4640	Key - Square	3	7	1
65-4640	Key - Square	4	11	1
65-8970	Knob	1	20	1
65-8970	Knob	11	3	1
66-2490	Clamp - Battery	12	2	1
66-2910	Bumper - Rubber	12	23	1
66-2950	Hourmeter	10	11	1
66-4160	Spring - Extension	11	29	1
66-5293	Motor - Hydraulic	3	6	1
67-7050	Field Rotor Assembly	14	1	1
67-7100	Plate - Brake	14	3	1
67-7130	Diode	9	1	1
67-7310	Decal - TORO	8	21	1
67-8110	Element - Oil Filter	10	27	1
69-1170	Glass - Sight	15	28	1
70-1480	Relay	10	29	5
70-8170	Ring - Snap	4	21	1
70-8631	Cap - Fuel	5	5	1
70-9840	Shoe - Brake	3	17	2
70-9850	Clip - Retaining	3	8	1
70-9860	Pivot - Brake	3	26	1
70-9870	Plate - Brake	3	13	1
70-9880	Spring - Brake	3	16	2
71-0820	Mount - Motor	3	36	1
71-1500	Brake Assembly	3	*	1
71-4170	Switch - Toggle	2	52	1
71-5960	Filter - Fuel	12	28	1
71-5960	Filter - Fuel	41	6	1
71-5990	Plate - Ignition Plunger	40	3	1
71-6000	Coil - Ignition	40	6	1
71-6010	Rotor - Ignition	40	21	1
71-6020	Cable - Spark Plug (18.5")	40	*	1
71-6030	Regulator - Voltage	42	25	1
71-6040	Starter Assembly	44	*	1
71-6080	Bracket - Lifting	42	20	2
71-6100	Hose - Fuel (Cut to 5")	41	5	1
71-6100	Line - Pulse (Cut to 7")	41	4	1
71-6140	Grommet - Rubber	37	16	1
71-6170	Seal - Oil Fill Tube	34	8	1
71-6190	Key - Flywheel	33	6	1
71-6220	Clip - Wire	40	16	2
71-6220	Clip - Wire	42	27	1
71-6240	Screw - Hex. Flange Hd.	29	19	5
71-6350	Gear Case Assembly	36	13	1
71-6380	Control - Ignition	36	16	1
71-6390	Screw - Hex. Hd.	36	21	3
71-6400	Screw - Hex. Washer Hd.	36	19	2
71-6410	Insulator - Ignition Module	36	17	1
71-6420	Cable - Spark Plug (9")	40	18	1
71-6430	Hut - Hex. Flange	40	8	1
71-6440	Nut - Hex. Flange	40	7	1
71-6450	Screw - Hex. Flange Hd.	40	20	1
71-6450	Screw - Hex. Hd.	37	13	1
71-6460	Screw - Hex. Flange Hd.	40	5	2
72-3860	Kit - Choke Shaft	39	1	1
72-3870	Kit - Choke Lever	39	2	1
72-3880	Screw - Hex. Washer Hd.	43	8	1
72-3890	Screw - Hex. Hd.	43	1	1
72-3900	Screw - Hex. Washer Hd.	43	10	1
72-3900	Screw - Tapping	42	5	1
72-3930	Starter Solenoid Kit	44	5	1
72-3940	Starter Clutch Kit	44	3	1
72-3950	Dust Seal Kit	44	2	1
72-3990	Terminal - Ring	40	9	4
72-4000	Terminal - Receptacle	40	11	4
72-4030	Housing - Connector	40	13	5
72-4040	Terminal - 20 Amp.	40	15	6
72-4080	Decal - Danger (English)	3	38	1
72-4310	Switch - Ball N.C.	26	36	1
72-4320	Switch - Ball N.O.	26	37	1
74-0510	Valve - Fuel Shut-Off	5	7	1
74-0720	Tube - Manual	2	49	1
76-2350	Seal & Retainer Assembly	4	*	1
76-2360	Body Seal Kit	4	*	1
76-8640	Stud	17	15	1
80-0500	Adaptor - Oil Filter	35	2	1
80-5080	Support - Manifold	23	27	1
80-5120	Arm - Lift	26	33	2
80-5140	Lever - Lift	26	12	1
80-5200	End Cap - Roller	28	2	4
80-5240	Housing - Gear Box	15	3	1
80-5260	Cover - Gear Box	15	5	1
80-5280	Gear	15	22	1
80-5300	Housing - Gear/Cam Brng.	15	19	1
80-5320	Housing - Pinion Bearing	15	17	1
80-5330	Sleeve - Follower	15	2	1
80-5380	Manifold	23	28	1
80-5400	Engine	12	40	1
80-5430	Clutch - Water Pump	13	2	1
80-5450	Hydraulic Pump Assembly	17	48	1
80-5460	Body & Bearing Assembly	4	9	1
80-5470	Cover & Bearing Assembly	4	2	1
80-5480	Screw - Cap Hex. Hd.	4	1	8
80-5490	IGR Assembly	4	5	1
80-5500	Shaft	4	10	1
80-5520	Cover Tube Assembly	27	11	1
80-5530	Clutch Assembly	27	4	1
80-5540	Motor Assembly	27	10	1
80-5550	Seal Kit	27	*	1
80-5560	Flange Bearing Assembly	26	34	2
80-5570	Retainer - Valve Spring	25	15	1
80-5580	Follower - Cam	23	18	1
80-5590	Pilot - Gear Box	25	18	1
80-5600	Spool - Valve	25	1	1
80-5610	Seat - Valve	25	2	1
80-5630	Valve - Check	22	9	6
80-5640	Gauge - Pressure	10	5	1
80-5650	Muffler	12	7	1
80-5680	Hood	8	17	1
80-5700	Tank - Fuel	5	4	1
80-5710	Shaft - Lift	26	19	1
80-5720	Retainer - Seal	22	2	3
80-5730	Ring - Head Back-Up	22	6	3
80-5730	Ring - Head Back-Up	25	30	1
80-5740	Seal - Packing	25	29	1
80-5740	Seal - Packing Vee	22	5	3
80-5750	Support - Seal/Plunger	22	4	3
80-5751	Support - Seal/Plunger	25	28	1
80-5760	Seal - U-Cup	22	3	3
80-5760	Seal - U-Cup	25	26	1
80-5770	Spring - Compression	25	16	1
80-5780	Seal - O-Ring	23	40	1
80-5780	Seal - O-Ring	25	3	1
80-5781	Seal - Check Valve	22	10	6
80-5782	Seal - O-Ring	22	20	1
80-5782	Seal - O-Ring	25	38	1
80-5784	Seal - O-Ring	23	15	2
80-5784	Seal - O-Ring	24	10	1
80-5786	Seal - O-Ring	23	38	11
80-5791	Seal - O-Ring	22	8	6
80-5791	Seal - O-Ring	23	29	2
80-5793	Seal - O-Ring	23	44	2
80-5794	Seal - O-Ring	22	12	1
80-5794	Seal - O-Ring	25	9	1
80-5800	Connecting Rod Assembly	21	10	3
80-5810	Washer - Lock	21	22	6
80-5820	Screw - Socket Hd.	21	21	6
80-5830	Gasket	21	18	1
80-5840	Plug - Drain	21	17	1
80-5850	Gasket	21	6	2
80-5860	Glass - Sight	21	16	1
80-5870	Screw - Socket Hd.	21	15	6
80-5880	Cover - Crankcase	21	19	1
80-5890	Gasket - Crankcase Cover	21	20	1
80-5900	Seal - Crankshaft	21	14	2

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PART NUMBER INDEX (Continued)

Part No.	Description	Pg. No.	Ref. No.	Qty.
80-5910	Bearing - Roller	21	13	2
80-5920	Key - Collar	20	20	1
80-5920	Key - Crankshaft	21	12	1
80-5930	Crankshaft	21	11	1
80-5940	Rod - Plunger	21	9	3
80-5950	Protector - Shaft	21	8	1
80-5960	Housing - Bearing (Thru)	21	1	
80-5970	Seal - O-Ring	21	31	2
80-5990	Dipstick - Oil	21	5	1
80-6000	Guide - Plunger	21	3	3
80-6010	Plunger Seal Kit	21	34	1
80-6020	Washer	21	32	8
80-6030	Screw - Cap Hex. Hd.	21	33	8
80-6040	Shim - Bearing Housing	21	2	2
80-6050	Sleeve Kit	25	*	1
80-6050	Sleeve Kit (20mm)	21	*	3
80-6060	Ring - Retaining	21	24	6
80-6070	Pin - Connecting Rod	21	23	3
80-6090	Key - Pump	18	49	1
80-6110	Charge Relief Valve Kit	19	*	1
80-6120	Check Valve Kit	19	1	1
80-6130	Overhaul Seal Kit	19	*	1
80-6140	Key - Clutch	13	1	1
80-6510	Hose - Water	7	6	1
80-6511	Hose - Water	7	5	1
80-6512	Hose - Water	7	1	1
80-6513	Hose - Water	7	13	1
80-6520	Hose - Water	7	14	1
80-6521	Hose - Gage	22	17	1
80-6521	Hose - Gage	25	34	1
80-6540	Tube - Limit	26	2	1
80-6580	Hub Assembly	26	21	2
80-6590	Clamp - Relief Valve	23	4	1
80-6600	Bracket - Spring	20	13	1
80-6610	Spring - Extension	17	17	1
80-6620	Spring - Extension	20	10	1
80-6630	Tube - Hydraulic	8	14	1
80-6640	Tube - Hydraulic	8	13	1
80-6650	Pulley - Water Pump	20	17	1
80-6660	Collar - Taper Lock	20	19	1
80-6670	Nozzle (#53) (Std.)	23	34	11
80-6673	Nozzle (#46) (Opt.)	23	*	6
80-6675	Nozzle (#56) (Opt.)	23	*	6
80-6680	Washer	23	33	11
80-6700	Electric Clutch Assembly	13	9	1
80-6710	Armature & Hub Assembly	14	5	1
80-6720	Belt - V	17	1	1
80-6730	Belt - V	20	18	2
80-6740	Hose - Water	5	3	1
80-6750	Lever - Brake	1	21	1
80-6790	Battery	12	1	1
80-6800	Handle	1	30	1
80-6900	Bracket - Switch	1	33	1
80-6920	Bracket - Clutch Retainer	13	39	2
80-6930	Adapter - Clutch	13	10	1
80-6950	Shaft - Coupler	13	15	1
80-6980	Latch Assembly	8	34	2
80-6990	Washer - Thrust	28	24	4
80-7000	Arm - Pivot	11	11	1
80-7020	Fitting - Breather	15	6	1
80-7030	Shim - Pinion Bearing	15	16	1
80-7031	Shim - Pinion Bearing	15	*	1
80-7032	Shim - Pinion Bearing	15	*	1
80-7033	Shim - Pinion Bearing	15	*	1
80-7040	Shim - Gear/Cam Bearing	15	20	1
80-7041	Shim - Gear/Cam Bearing	15	*	1
80-7042	Shim - Gear/Cam Bearing	15	*	1
80-7043	Shim - Gear/Cam Bearing	15	*	1
80-7050	Shim - Gear Box	25	36	2
80-7051	Shim - Gear Box	25	*	2
80-7052	Shim - Gear Box	25	*	2
80-7053	Shim - Gear Box	25	*	2
80-7060	Shaft - Override	2	45	1
80-7070	Relief Valve Assembly	23	7	1
80-7080	Housing	2	40	1
80-7110	Handle - Traction Control	1	16	1
80-7150	Spring - Compression	2	43	2
80-7160	Arm - Traction	2	51	1
80-7190	Shaft - Pivot	1	14	1
80-7200	Spacer - Brake	1	18	1
80-7210	Cover - Lower	2	50	1
80-7220	Stroke Control Cable Assy.	2	38	1
80-7220	Stroke Control Cable Assy.	17	45	1
80-7230	Hub - Override	2	44	1
80-7270	Choke Control Assembly	10	1	1
80-7310	Breaker - Circuit	10	31	1
80-7320	Fitting - Adapter	17	40	1
80-7330	Hose - Hydraulic	8	16	2
80-7330	Hose - Hydraulic	17	24	2
80-7340	Hose - Water	7	9	6
80-7341	Hose - Water	7	10	2
80-7342	Hose - Water	7	7	1
80-7344	Hose - Water	7	2	1
80-7350	Hose - Hydraulic	10	28	1
80-7350	Hose - Hydraulic	17	28	1
80-7360	Hose	15	35	1
80-7360	Hose - Hydraulic	17	39	1
80-7370	Hose - Hydraulic	3	33	2
80-7370	Hose - Hydraulic	8	1	2
80-7400	Lever - Brake	3	12	1
80-7430	Bracket - Idler	20	5	1
80-7460	Support - Pump	18	55	1
80-7540	Stop - Speed	11	9	1
80-7580	Rod - Speed Adjustment	11	14	2
80-7590	Spacer	11	16	1
80-7600	Pin - Pivot	11	22	1
80-7630	Neutral Lever Assembly	17	18	1
80-7660	Seal - Button	10	6	1
80-7670	Plate - Speed Control	11	5	1
80-7680	Support - Muffler	12	16	2
80-7700	Bracket - Support	12	24	1
80-7710	Sleeve - Idler Bracket	20	9	1
80-7730	Spacer	11	19	3
80-7770	Tab - Switch	17	9	1
80-7780	Keeper - Latch	8	24	2
80-7790	Bracket - Alarm	1	11	1
80-7800	Lever - Pump	17	30	1
80-7830	Arm - Pivot	11	23	1
80-7870	Spring - Extension	26	5	2
80-7880	Bolt - U	10	37	2
80-7890	Spring - Compression	11	7	1
80-7900	Panel - Control	10	12	1
80-7960	Bracket - Return	26	9	1
80-7970	Tube - Return	26	8	1
80-8000	Decal - Warning (English)	13	20	1
80-8010	Decal - Warning (English)	26	10	1
80-8010	Decal - Warning (English)	27	12	1
80-8020	Decal - Instruction	2	56	1
80-8030	Decal - Danger (English)	23	12	2
80-8030	Decal - Danger (English)	24	5	2
80-8040	Decal - Warning (English)	13	22	1
80-8050	Decal - Hydroject 3000	8	36	2
80-8070	Decal - Parking Brake	2	58	1
80-8090	Decal - Warning (English)	8	32	3
80-8110	Panel - Engine Control	11	2	1
80-8150	Panel - Control (English)	11	31	1
80-8170	Pulley - Hydraulic Pump	17	4	1
80-8180	Hub - Adapter	13	28	1
80-8210	Feeder - Manifold	23	39	1
80-8220	Cap - Check Valve	22	7	6
80-8220	Plug	23	30	2
80-8230	Plug	23	43	1
80-8260	Stud - Head	20	23	8
80-8260	Stud - Head	22	19	8
80-8270	Bracket - Adjustment	26	4	1
80-8280	Rod - Control	10	2	1
80-8290	Plate - Hot Surface	12	14	3
80-8330	Pivot - Roller	28	16	2
80-8340	Shaft - Pinion	15	12	1
80-8350	Bracket - Clamp	23	3	1

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PART NUMBER INDEX (Continued)

Part No.	Description	Pg. No.	Ref. No.	Qty.
80-8360	Pulley - Idler	20	4	1
80-8370	Cable - Battery (Neg.)	12	39	1
80-8380	Cable - Battery (Pos.)	12	*	1
80-8400	Lever - Speed Control	11	4	1
80-8430	Cable - Speed Control	11	26	1
80-8440	Control - Throttle	10	19	1
80-8450	Sleeve - Ceramic	25	7	1
80-8460	Seal - O-Ring	25	5	1
80-8470	Ring - Support	25	6	1
80-8480	Washer	25	23	1
80-8490	Washer - Back-Up	25	4	1
80-8500	Cam	15	23	1
80-8510	Block - Weight	15	27	1
80-8530	Flange - Bearing	28	6	4
80-8550	Flange - Bearing	28	5	4
80-8560	Washer	13	32	1
80-8570	Washer	13	18	1
80-8580	Guard - Belt	8	11	1
80-8590	Element - Water Filter	5	26	1
80-8600	Water Filter Assembly	5	*	1
80-8610	Bracket - Filter	5	14	1
80-8620	Spacer - Coupler	13	12	8
80-8630	Angle - Clutch	13	8	1
80-8650	Disc - Rubber	13	16	2
80-8660	Spacer - Coupling	13	29	2
80-8670	Spacer - Steering	3	3	1
80-8680	Stud	23	21	2
80-8680	Stud - Mounting	20	22	2
80-8690	Pin - Pivot	28	18	2
80-8710	Plate - Side	28	21	2
80-8720	Stop - Roller	28	20	4
80-8730	Shaft - Roller	28	3	2
80-8740	Roller	28	1	2
80-8750	Control - Electric	10	32	1
80-8760	Decal - Danger (English)	17	7	1
80-8770	Tube - Water	23	6	1
80-8790	Wire Harness - Control	9	*	1
80-8880	Decal - Warning (English)	23	13	2
80-8880	Decal - Warning (English)	24	7	2
80-8890	Mount - Valve	10	35	1
80-8930	Sump - Water Filter	5	41	1
80-8940	Valve - Bleed	5	42	1
80-8970	Cap - Valve	24	2	1
80-8980	Piston Assembly	24	8	1
80-8990	End Seal/Back-Up Ring Kit	24	4	1
80-9000	Valve - Gas	24	3	1
80-9020	Protector - Valve	24	1	1
80-9030	Cap - Gas End	24	12	1
80-9040	Cap - Water End	24	9	1
80-9050	Bracket - Nozzle Rear	8	27	3
80-9060	Bracket - Nozzle Front	8	31	3
80-9080	Plate - Hinge	8	20	4
80-9090	Plate - Back-Up	8	18	2
80-9150	Support - Muffler Shield	12	9	1
80-9170	Bracket - Pulley Guard	17	23	1
80-9180	Shield - Manifold	28	10	2
80-9190	Accumulator Assembly	23	14	1
80-9200	Seal - Back-Up	25	19	1
80-9220	Retainer - Seal	25	25	1
80-9230	Support - Wire	13	41	1
80-9240	Panel - Control (English)	1	3	1
80-9260	Plate - Back-Up	8	23	2
80-9270	Bracket - Switch	1	9	1
80-9280	Switch Assembly	1	8	2
80-9290	Button - Switch (Green)	1	5	1
80-9300	Button - Push (Red)	2	57	1
80-9310	Spacer - Hinge	8	38	2
80-9320	Clamp - Traction	17	35	1
80-9330	Audio Alarm Assembly	1	12	1
80-9350	Plate - Hot Surface	12	18	2
80-9390	Guide - Valve	25	27	1
80-9400	Fitting - Straight Bard	22	14	1
80-9410	Fitting - Adapter	25	31	1
80-9420	Housing - Bearing (Cap)	21	35	1
80-9430	Crankshaft	21	11	1
80-9450	Decal - Crankcase	21	7	1
80-9450	Decal - Pump	20	27	1
80-9480	Retainer - Tube	22	16	1
80-9480	Tube - Retainer	25	33	1
80-9500	Adapter - Bulkhead	5	29	2
80-9510	Wrench - Water Filter	5	*	1
80-9520	Pulley - Engine	13	3	1
80-9540	Spacer	2	62	1
80-9550	Bracket - Relay	10	44	1
80-9560	Gasket - Pilot	25	35	1
80-9580	Lever - Valve	10	42	1
80-9600	Head - Water Filter	5	28	1
80-9610	Bushing - Flange	20	8	2
80-9620	Wire Harness - Tiller	9	*	1
80-9630	Wire Harness - Main	9	*	1
80-9640	Kit - Seal	22	*	1
80-9650	Kit - Check Valve	22	*	1
80-9660	Kit - Rebuild	25	*	1
80-9680	Support - Feeder	23	49	1
80-9710	Spring - Conical	23	32	11
80-9720	Extension - Nozzle	23	37	11
80-9730	Guide - Cable	3	2	1
80-9740	Cable - Brake	1	24	1
80-9740	Cable - Brake	3	10	1
80-9750	Valve - Bleed	25	11	1
80-9760	Stop - Clutch	13	5	1
80-9780	Stop - Clutch	13	38	1
80-9790	Shaft - Steering Pivot	3	5	1
80-9800	Flange - Nozzle	23	36	11
80-9830	Tube - Hydraulic	10	26	1
80-9840	Plate - Valve	4	7	1
82-0010	Decal - Air Cleaner Maint.	37	4	1
82-0020	Plate - Bearing Rear	29	15	1
82-0030	Oil Base Assembly	34	7	1
82-0040	Nut - Hex.	30	40	20
82-0060	Crankshaft	32	10	1
82-0070	Washer - Spring Retainer	30	48	2
82-0080	Insert - Exhaust Valve	29	24	2
82-0090	Insert - Exhaust Valve	29	*	2
82-0100	Insert - Exhaust Valve	29	*	2
82-0110	Insert - Exhaust Valve	29	*	2
82-0120	Insert - Exhaust Valve	29	*	2
82-0130	Gasket - Cylinder Head	29	9	2
82-0140	Guide - Exhaust Valve	29	26	2
82-0150	Guide - Intake Valve	29	*	2
82-0160	Insert - Intake Valve	29	25	2
82-0170	Insert - Intake Valve	29	*	2
82-0180	Insert - Intake Valve	29	*	2
82-0190	Insert - Intake Valve	29	*	2
82-0200	Insert - Intake Valve	29	*	2
82-0210	Head - Cylinder	29	10	2
82-0220	Valve - Intake	29	22	2
82-0230	Valve - Exhaust	29	23	2
82-0240	Cap - Exhaust Valve	30	43	2
82-0250	Lock - Valve Spring	30	28	8
82-0260	Gasket - Valve Cover	29	6	2
82-0270	Seal - Intake Valve	29	8	2
82-0280	Cover - Valve (Coil)	29	5	1
82-0290	Pin - Piston	31	61	2
82-0300	Piston Assy. (Std.)	31	60	2
82-0310	Piston Assy. (.005" OS)	31	*	2
82-0320	Piston Assy. (.010" OS)	31	*	2
82-0330	Piston Assy. (.020" OS)	31	*	2
82-0340	Piston Assy. (.030" OS)	31	*	2
82-0360	Piston Ring Set (Std.)	31	57	1
82-0370	Piston Ring Set (.005" OS)	31	*	1
82-0380	Piston Ring Set (.010" OS)	31	*	1
82-0390	Piston Ring Set (.020" OS)	31	*	1
82-0400	Piston Ring Set (.030" OS)	31	*	1
82-0410	Bushing - Piston Pin	30	41	2
82-0420	Bearing Half - Rod (Std.)	30	35	4
82-0430	Bearing Half - Rod	30	*	4
82-0440	Bearing Half - Rod	30	*	4
82-0450	Bearing Half - Rod	30	*	4
82-0460	Bearing Half - Rod	30	*	4

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Part No.	Description	Pg. No.	Ref. No.	Qty.
82-0470	Connecting Rod Assembly	31	58	2
82-0480	Tube - Oil	29	21	1
82-0490	Cup - Oil Pump Intake	34	1	1
82-0510	Drain - Oil Filter	35	8	1
82-0520	Gasket - Oil Filter Adaptor	35	1	1
82-0530	Clamp - Breather Tube	30	32	1
82-0540	Tube - Breather	29	3	1
82-0550	Breather Cap & Valve	29	2	1
82-0560	Screen - Breather Tube	30	33	2
82-0570	Seal - O-Ring	30	34	1
82-0580	Tube - Oil Fill	34	9	1
82-0590	Dipstick Assembly	34	11	1
82-0600	Housing - Cylinder LH	42	15	1
82-0610	Flywheel	33	4	1
82-0620	Guard - Stationary	42	2	1
82-0630	Housing - Blower	42	3	1
82-0640	Housing - Cylinder RH	42	21	1
82-0650	Cover - Inner	37	3	1
82-0660	Element - Air Cleaner	37	7	1
82-0670	Manifold - Intake	38	10	1
82-0670	Wrapper - Element	37	6	1
82-0690	Cover - Air Cleaner	37	21	1
82-0700	Tube - Air Intake	37	17	1
82-0710	Housing - Air Cleaner	37	8	
82-0720	Support - Air Cleaner	37	12	1
82-0730	Plate - Air Deflector	37	18	1
82-0740	Kit - Jet	39	6	1
82-0750	Jet - Idle	39	3	1
82-0760	Gasket - Carburetor	39	*	1
82-0770	Carburetor Assembly	38	4	1
82-0780	Carburetor Repair Kit	39	7	1
82-0790	Jet - Power (Std.)	39	4	1
82-0800	Solenoid - Fuel Shut-Off	39	5	1
82-0810	Kit - Throttle Shaft	39	9	1
82-0840	Rod - Governor Control	38	6	1
82-0850	Gasket - Carburetor	38	17	1
82-0850	Gasket - Carburetor	39	8	1
82-0860	Gasket - Manifold	38	14	2
82-0880	Camshaft	32	9	1
82-0900	Gasket - Oil Base	34	2	1
82-0910	Gasket - Gear Case	36	8	1
82-0950	Gasket Kit (Engine)	30	47	1
82-0960	Gasket Kit (Carbon Remove)	29	*	1
82-0980	Spacer/Seal	37	5	1
82-0990	Housing - Connector	40	17	1
82-1000	Body - Terminal Connector	36	23	2
82-1010	Housing - Receptacle	40	10	1
82-1020	Tie - Cable	40	12	2
82-1050	Wire Harness Assembly	40	*	1
82-1070	Fitting - 90° Elbow	38	3	1
82-1080	Clamp - Hose	38	16	2
82-1080	Clamp - Hose	41	2	6
82-1090	Clamp - Hose	37	11	1
82-1090	Clamp - Hose	38	2	1
82-1100	Hose - Fuel (Cut to 15")	38	15	1
82-1100	Hose - Fuel (Cut to 15")	41	1	1
82-1120	Hose - Breather	37	10	1
82-1120	Hose - Breather	38	1	1
82-1130	Plug - Pipe	34	12	1
82-1180	Plug - Expansion	29	7	1
82-1200	Ring - Retaining	31	56	4
82-1230	Stud - Cylinder Head Top	30	*	4
82-1240	Stud - Cylinder Head Mid.	30	*	8
82-1250	Stud - Cylinder Head Btm.	30	36	8
82-1300	Washer - Flat	30	44	20
82-1310	Washer - Flat	30	42	5
82-1310	Washer - Flat	34	3	4
82-1310	Washer - Flat	38	9	4
82-1320	Washer - Flat	33	2	1
82-1340	Washer - Flat	38	13	2
82-1340	Washer - Flat	40	2	2
82-1350	Washer - Flat	38	12	2
82-1470	Bolt - Connecting Rod	31	59	4
82-1480	Screw - Tapping	29	11	1
82-1510	Screw - Cap Hex. Hd.	35	9	2
82-1520	Gasket - Muffler	12	27	2
82-1540	Screw - Hex. Washer	42	26	1
82-1540	Screw - Hex. Washer Hd.	40	14	1
82-1550	Screw - Tapping	37	9	2
82-1570	Decal - Performer	37	20	1
82-1570	Decal - Performer	42	22	2
82-1580	Decal - Head Bolt Torque	42	23	2
82-1590	Screw - Pan Hd.	42	1	4
82-1600	Screw - Hex. Washer Hd.	42	14	2
82-1620	Washer - Lock	31	62	2
82-1650	Washer - Lock	30	45	24
82-1660	Washer - Lock	36	18	2
82-1660	Washer - Lock	43	4	1
82-1670	Nut - Wing	37	2	1
82-1690	Nut - Hex. Washer Hd.	37	15	1
82-1710	Cover - Valve (Dipstick)	29	*	1
82-1720	Cap - Solenoid	44	7	1
82-1730	Nut - Hex.	44	6	1
82-1740	Spring - Governor Rod	38	7	1
82-1750	Short Block Assembly	29	1	1
82-1760	Knob	37	1	1
82-1770	Screw - Hex. Washer Hd.	37	19	3
82-1780	Screw - Hex. Washer Hd.	42	29	3
217-60	Rim - Wheel	3	21	1
217-60	Rim - Wheel	26	23	2
218-446	Nut - Lock	10	8	1
218-447	Washer - Lock	10	7	1
218-498	Nut - Locking	1	4	1
232-27	Stem - Valve	3	24	1
232-27	Stem - Valve	26	29	2
233-17	Knob	10	3	1
237-7	Seal - O-Ring	5	6	1
237-22	Seal - O-Ring	18	51	1
237-25	Seal - O-Ring	15	21	1
237-30	Seal - O-Ring	3	32	2
237-30	Seal - O-Ring	8	2	6
237-30	Seal - O-Ring	10	25	2
237-30	Seal - O-Ring	15	31	1
237-30	Seal - O-Ring	17	25	2
237-42	Seal - O-Ring	17	41	2
237-78	Seal - O-Ring	15	32	1
237-79	Seal - O-Ring	10	23	2
237-79	Seal - O-Ring	15	8	3
237-79	Seal - O-Ring	17	27	2
237-80	Seal - O-Ring	3	30	2
237-81	Seal - O-Ring	15	29	1
237-170	Seal - O-Ring	22	1	3
237-171	Seal - Cover	15	4	1
237-172	Seal - O-Ring	15	15	1
237-173	Seal - O-Ring	25	37	1
237-176	Seal - O-Ring	5	27	1
237-178	Seal - O-Ring	25	24	1
240-3	Grommet	8	35	4
240-11	Grommet	5	36	4
240-12	Grommet	1	29	1
240-14	Bumper	13	7	2
241-119	Cap - Hub	26	26	2
242-50	Nut - Lug	3	23	4
242-50	Nut - Lug	26	24	8
2411-34	Joint - Ball	2	46	1
2411-34	Joint - Ball	17	43	1
2411-50	Eye - Rod L.H. Thread	11	20	2
2411-51	Eye - Rod R.H. Thread	11	13	2
2412-41	Clamp - R	5	10	2
2412-71	Clamp - R	12	34	2
2412-81	Clamp - R	23	1	2
2412-94	Clamp - R	2	36	1
2412-108	Clamp - Hose	5	8	1
2412-108	Clamp - Hose	12	29	1
2412-108	Clamp - Hose	15	34	1
2412-108	Clamp - Hose	17	38	1
2412-108	Clamp - Hose 3/4"	7	12	20
2412-120	Clamp - R	2	47	2

*Not Illustrated

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Part No.	Description	Pg. No.	Ref. No.	Qty.
2412-129	Clamp - Hose 3/8"	7	11	8
251-259	Bearing - Ball	17	20	2
251-351	Bearing - Ball	28	25	4
253-129	Seal - Bearing	26	32	2
253-148	Seal - Input Shaft	15	36	1
253-167	Seal - V	28	4	4
253-168	Seal - Oil	25	20	1
254-61	Cup - Bearing	15	10	3
254-62	Cone - Bearing	15	11	3
254-67	Cup - Bearing	15	14	1
254-68	Cone - Bearing	15	13	1
254-72	Cup Bearing	26	31	4
254-94	Cone - Bearing	26	30	4
255-12	Ball - Check	23	31	11
255-13	Ball - Steel	25	39	1
256-90	Bushing - Sleeve	1	13	3
256-113	Bushing - Flange	17	8	2
256-116	Bushing - Flange	11	8	6
256-206	Bushing - Sleeve	1	19	1
256-245	Bushing - Flange	8	5	2
256-268	Bushing - Flange	26	1	2
256-315	Bushing - Sleeve	25	17	1
256-318	Bushing - Nyliner	28	15	4
281-2	Plug - Hex. Hd.	34	5	1
283-1	Pin - Clevis	3	11	1
283-67	Pin - Clevis	11	25	1
288-4	Cap - Drain	12	33	1
289-48	Nipple - Drain	12	32	1
2811-7	Fitting - Breather 90°	15	37	1
2811-10	Fitting - Drain 90°	12	31	1
302-5	Fitting - Grease	8	37	1
302-5	Fitting - Grease	17	11	1
302-5	Fitting - Grease	26	3	1
304-75	Fitting - Hydraulic 90°	17	37	1
304-99	Fitting - 90° Elbow	15	33	1
304-101	Fitting - Barb	22	15	1
304-101	Fitting - Barb	25	32	1
321-3	Screw - Cap Hex. Hd.	10	13	4
321-3	Screw - Cap Hex. Hd.	13	40	1
321-3	Screw - Cap Hex. Hd.	40	1	2
321-4	Screw - Cap Hex. Hd.	8	30	6
321-4	Screw - Cap Hex. Hd.	20	21	2
321-6	Screw - Cap Hex. Hd.	30	49	2
321-10	Screw - Cap Hex. Hd.	17	29	2
321-11	Screw - Cap Hex. Hd.	30	31	2
321-19	Screw - Cap Hex. Hd.	23	11	2
321-28	Screw - Cap Hex. Hd.	8	22	2
322-1	Screw - Cap Hex. Hd.	12	12	2
322-3	Screw - Cap Hex. Hd.	11	6	2
322-3	Screw - Cap Hex. Hd.	12	17	2
322-4	Screw - Cap Hex. Hd.	12	8	2
322-4	Screw - Cap Hex. Hd.	13	11	2
322-4	Screw - Cap Hex. Hd.	15	9	8
322-5	Screw - Cap Hex. Hd.	18	52	1
322-5	Screw - Cap Hex. Hd.	35	4	2
322-9	Screw - Cap Hex. Hd.	36	15	4
322-12	Screw - Cap Hex. Hd.	38	11	2
322-17	Screw - Cap Hex. Hd.	17	16	1
322-22	Screw - Mounting	44	11	2
323-2	Screw - Hex. Washer Hd.	28	9	6
323-4	Screw - Cap Hex. Hd.	11	30	2
323-4	Screw - Cap Hex. Hd.	13	37	1
323-4	Screw - Cap Hex. Hd.	24	13	2
323-5	Screw - Cap Hex. Hd.	5	34	4
323-5	Screw - Cap Hex. Hd.	15	18	8
323-5	Screw - Cap Hex. Hd.	23	23	12
323-6	Screw - Cap Hex. Hd.	10	21	3
323-6	Screw - Cap Hex. Hd.	12	21	2
323-6	Screw - Cap Hex. Hd.	13	6	2
323-6	Screw - Cap Hex. Hd.	18	58	4
323-6	Screw - Cap Hex. Hd.	20	11	1
323-6	Screw - Cap Hex. Hd.	23	16	4
323-7	Screw - Cap Hex. Hd.	11	12	2
323-7	Screw - Cap Hex. Hd.	26	17	3
323-9	Screw - Cap Hex. Hd.	12	4	1
323-12	Screw - Cap Hex. Hd.	20	7	1
323-14	Screw - Cap Hex. Hd.	11	17	1
323-14	Screw - Cap Hex. Hd.	38	8	4
323-19	Screw - Cap Hex. Hd.	12	37	4
323-20	Screw - Cap Hex. Hd.	23	41	7
323-25	Screw - Cap Hex. Hd.	34	4	4
323-29	Screw - Cap Hex. Hd.	1	17	1
323-52	Screw - Cap Hex. Hd.	15	25	4
324-6	Screw - Cap Hex. Hd.	17	5	2
324-26	Screw - Cap Hex. Hd.	23	20	4
324-26	Screw - Cap Hex. Hd.	24	11	4
325-4	Screw - Cap Hex. Hd.	23	26	1
325-5	Screw - Cap Hex. Hd.	23	24	1
325-6	Screw - Cap Hex. Hd.	3	4	4
325-12	Screw - Cap Hex. Hd.	23	25	1
325-13	Screw - Cap Hex. Hd.	3	1	4
325-14	Screw - Cap Hex. Hd.	26	35	1
325-17	Screw - Cap Hex. Hd.	18	57	1
325-22	Screw - Cap Hex. Hd.	26	15	1
329-3	Screw - Cap Hex. Hd.	3	15	4
3210-5	Screw - Cap Hex. Hd.	13	30	4
3210-8	Screw - Cap Hex. Hd.	13	17	3
3211-38	Screw - Cap Hex. Hd.	13	31	1
3213-5	Screw - Cap Hex. Hd.	20	6	1
3217-5	Nut - Lock	13	35	3
3217-7	Nut - Lock	13	33	1
3217-9	Nut - Lock	3	27	4
3217-16	Nut - Hex.	2	55	4
3218-1	Nut - Jam	17	3	2
3219-20	Nut - Hex. (L.H. Thread)	11	35	2
3219-28	Nut - Hex.	22	18	8
3219-28	Nut - Lock	20	24	8
3220-1	Nut - Jam	2	39	2
3220-1	Nut - Jam	17	44	1
3220-2	Nut - Lock	10	43	2
3220-3	Nut - Jam	11	15	2
3220-6	Nut - Jam	2	63	2
3220-6	Nut - Jam	17	19	2
3220-23	Nut - Jam	25	22	1
3229-1	Bolt - Carriage	1	27	1
3229-1	Bolt - Carriage	8	19	12
3230-1	Bolt - Carriage	5	15	3
3230-8	Bolt - Carriage	28	22	4
3230-22	Bolt - Carriage	26	18	6
3234-4	Screw - Hex. Washer Hd.	8	28	6
3234-11	Screw - Hex. Washer Hd.	13	27	2
3234-14	Screw - Hex. Washer Hd.	28	13	2
3234-24	Screw - Hex. Flange Hd.	8	10	1
3234-24	Screw - Hex. Washer Hd.	13	26	2
3234-24	Screw - Hex. Washer Hd.	28	12	10
3234-25	Screw - Hex. Washer Hd.	28	23	4
3234-35	Screw - Hex. Flange Hd.	23	35	22
3245-5	Screw - Set	17	2	2
3247-4	Screw - Set	31	63	4
3250-35	Screw	2	53	4
3250-39	Screw - Pan Hd.	12	22	1
3253-3	Washer - Lock	10	14	2
3253-3	Washer - Lock	13	36	3
3253-4	Washer - Lock	12	5	8
3253-4	Washer - Lock	18	53	3
3253-7	Washer - Lock	3	28	4
3253-21	Washer - Lock	10	30	2
3253-21	Washer - Lock	12	20	2
3253-21	Washer - Lock	13	34	1
3253-21	Washer - Lock	20	25	1
3254-6	Washer - I.T.L.W.	28	26	6
3254-9	Washer - I.T.L.W.	2	54	4
3254-9	Washer - Lock	17	32	2
3255-7	Washer - Lock	3	14	4
3255-9	Washer - E.T.L.W.	12	38	1
3256-2	Washer - Flat	2	42	4
3256-14	Washer - Flat	1	2	4
3256-14	Washer - Flat	11	32	8

*Not Illustrated

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3256-22	Washer - Flat	8	29	10
3256-22	Washer - Flat	10	15	7
3256-23	Washer - Flat	11	34	2
3256-23	Washer - Flat	12	13	6
3256-23	Washer - Flat	17	14	2
3256-24	Washer - Flat	1	22	1
3256-24	Washer - Flat	10	18	2
3256-24	Washer - Flat	12	3	3
3256-24	Washer - Flat	13	25	8
3256-25	Washer - Flat	17	47	2
3256-26	Washer - Flat	20	26	2
3256-26	Washer - Flat	26	7	1
3256-28	Washer - Flat	26	28	2
3256-28	Washer - Flat	28	8	4
3256-42	Washer - Flat	5	32	4
3256-68	Washer - Flat	28	14	2
3269-25	Rivet - Pop	8	25	8
3269-32	Rivet - Pop	12	15	10
3272-2	Pin - Cotter	10	39	1
3272-4	Pin - Cotter	11	27	1
3272-10	Pin - Cotter	3	9	1
3272-13	Pin - Cotter	26	25	2
3274-10	Screw - Hex. Socket Hd.	12	6	4
3274-10	Screw - Socket Hd.	15	1	2
3274-83	Screw - Socket Hd.	25	13	6
3290-313	Screw - Pan Hd.	2	35	2
3290-354	Plate - Nut	2	37	1
3290-378	Tie - Cable	7	3	3
3290-378	Tie - Cable	9	*	5
3290-378	Tie - Cable	13	42	1
3290-378	Tie - Cable	18	59	1
3290-410	Tie - Cable	17	21	1
3290-494	Washer - Rubber	5	1	1
3296-2	Nut - Lock	2	59	1
3296-2	Nut - Lock	10	20	4
3296-3	Nut - Lock	2	41	3
3296-3	Nut - Lock	17	42	1
3296-6	Nut - Lock	14	4	3
3296-9	Nut - Lock	12	25	1
3296-15	Nut - Lock	28	7	2
3296-19	Nut - Lock	1	31	3
3296-19	Nut - Lock	20	16	2
3296-19	Nut - Lock	23	22	2
3296-23	Nut - Lock	18	54	1
3296-28	Nut - Lock	20	3	1
3296-29	Nut - Lock	5	33	3
3296-29	Nut - Lock	11	1	2
3296-29	Nut - Lock	17	13	2
3296-29	Nut - Lock	26	16	6
3296-29	Nut - Lock	28	19	16
3296-39	Nut - Lock	8	12	1
3296-39	Nut - Lock	10	17	1
3296-39	Nut - Lock	11	18	3
3296-39	Nut - Lock	15	26	4
3296-39	Nut - Lock	18	56	4
3296-39	Nut - Lock	20	14	1
3296-39	Nut - Lock	26	14	3
3296-39	Nut - Lock	28	11	10
3296-42	Nut - Lock	1	26	1
3296-42	Nut - Lock	8	26	26
3296-42	Nut - Lock	10	33	6
3296-42	Nut - Lock	17	36	2
3296-42	Nut - Lock	23	2	2
3296-45	Nut - Lock	3	34	2
3296-45	Nut - Lock	26	6	2
3296-49	Nut - Lock	5	40	2
3296-56	Nut - Lock	2	61	1
3296-56	Nut - Lock	11	24	2
3296-56	Nut - Lock	20	15	1
3296-59	Nut - Lock	1	23	1
3296-59	Nut - Lock	11	21	2
32104-60	Screw - Hex. Washer Hd.	1	1	8
32104-60	Screw - Hex. Washer Hd.	11	33	8
32104-60	Screw - Hex. Washer Hd.	17	10	2
32104-76	Screw - Hex. Slotted Hd.	2	48	2
32104-95	Screw - Cap Hex. Hd.	12	10	5
32104-95	Screw - Hex. Flange Hd.	10	45	4
32104-95	Screw - Hex. Washer Hd.	1	28	6
32104-95	Screw - Hex. Washer Hd.	13	23	1
32104-95	Screw - Hex. Washer Hd.	17	22	2
32105-2	Screw - Cap Hex. Hd.	10	10	2
32105-2	Screw - Hex. Flange Hd.	2	60	1
32105-5	Screw - Cap Hex. Hd.	10	34	2
32105-24	Screw - Round Hd.	17	33	2
32108-103	Screw - Flat Hd.	13	13	3
32120-37	Ring - Retaining	25	21	1
32121-34	Pin - Roll	17	34	1
32121-42	Pin - Roll	15	24	4
32121-48	Pin - Roll	25	12	1
32121-66	Pin - Roll	26	13	3
32121-79	Pin - Roll	1	15	2
32128-21	Nut - Flange Lock	12	35	4
32128-37	Nut - Flange Lock	17	46	2
32136-5	Nut - Slotted	26	27	2
32144-41	Screw - Cap Hex. Hd.	5	11	4
32144-67	Screw - Cap Hex. Hd.	23	48	2
32144-67	Screw - Hex. Washer Hd.	13	21	1
32148-9	Nut - Insert	8	9	3
32151-44	Ring - Retaining	8	7	1
32151-47	Ring - Retaining	11	10	1
32151-99	Ring - Retaining	25	14	1
32152-1	Nut - Lock	12	26	2
32152-5	Nut - Lock	13	14	6
340-4	Fitting - Hydraulic Str.	17	26	2
340-6	Fitting - Hydraulic St.	3	31	2
340-54	Fitting - Hydraulic 45°	18	50	1
340-98	Fitting - Hydraulic 90°	10	22	2
340-98	Fitting - Hydraulic 90°	15	30	1
340-127	Nut - Bulkhead	8	15	4
340-161	Fitting - Hydraulic Bulkhead	8	3	2
353-550	Fitting - Plug	15	7	2
354-82	Plug	25	10	1
354-82	Plug Assembly	22	13	3
354-88	Coupler - Female	5	38	1
354-89	Coupler - Male	5	39	1
354-91	Fitting - Gauge Tee	5	25	1
354-92	Fitting - Reducer	23	8	1
354-93	Fitting - 90° Elbow	10	38	2
354-93	Fitting - 90° Elbow	23	9	1
354-96	Fitting - Tee	7	4	1
354-98	Fitting - Straight	5	24	1
354-101	Fitting - 90° Compression	5	22	1
354-102	Hydraulic Fitting Assembly	10	4	1
354-106	Fitting - 90° Elbow	5	23	1
354-107	Fitting - Tee	7	8	2
354-109	Fitting - Adaptor	5	2	1
354-110	Fitting - Water 90°	23	5	1
354-111	Fitting - Water Straight	23	47	1
354-112	Fitting - 90° Elbow	5	16	1
354-113	Cap - Pipe	8	33	1
354-114	Fitting - 90° Elbow	5	17	1
355-1	Fitting - Tee	5	12	4
355-2	Fitting - 90° Elbow	5	13	2
355-4	Cap	5	18	6
355-5	Strainer	5	20	6
355-6	Nozzle	5	19	6

*Not Illustrated

PRODUCT CHANGES

In an effort to make improvements available to TORO owners as quickly as possible, minor changes are incorporated into Toro's products from time to time that do not become immediately shown in the Parts Catalog. If such a change 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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