FORM NO. 3314-289 Rev. A

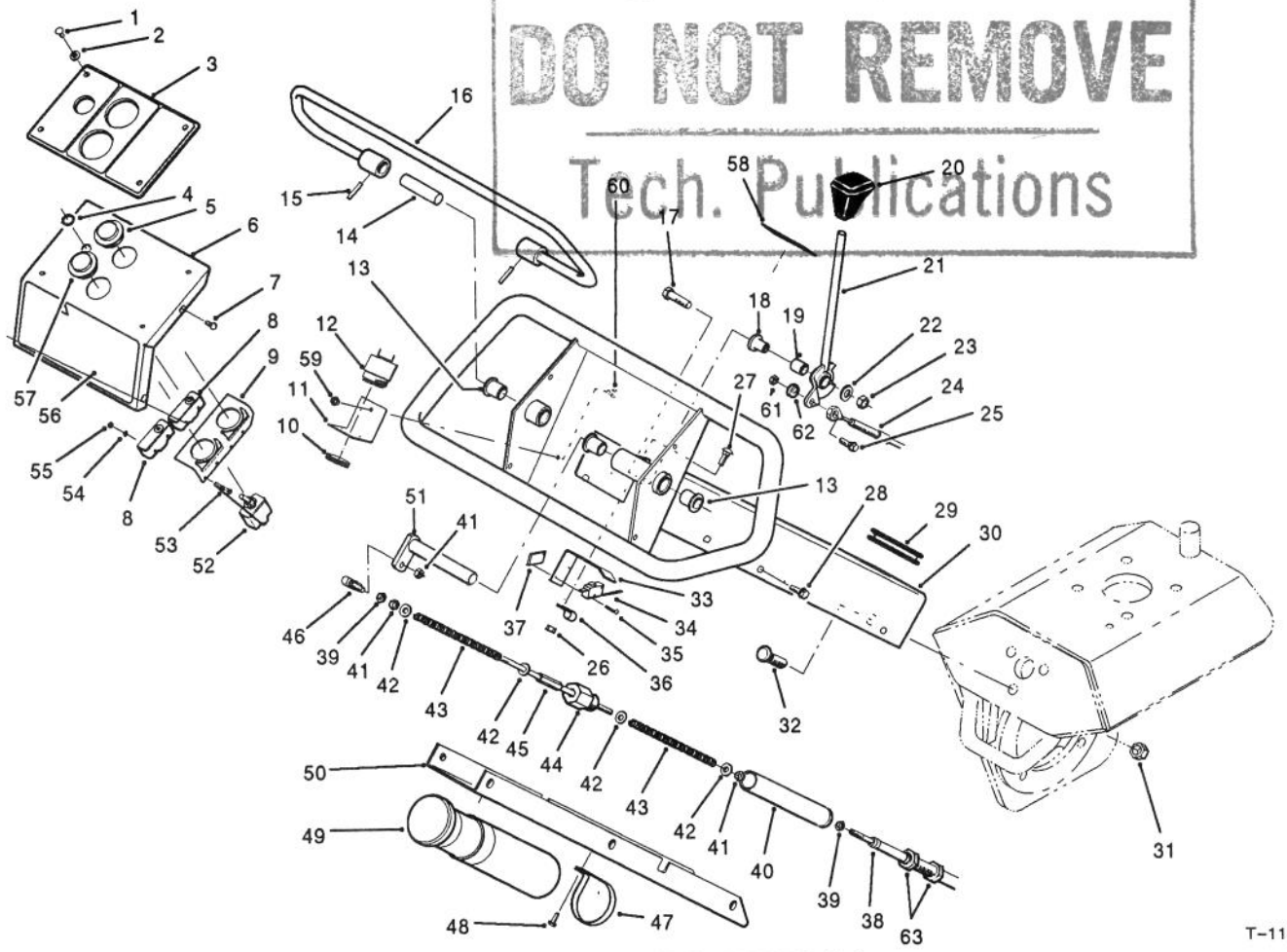
TORO®

MODEL NO. 09800-10001 & UP

PARTS CATALOG

HYDROJECT™ 3000 AERATOR

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T-1189

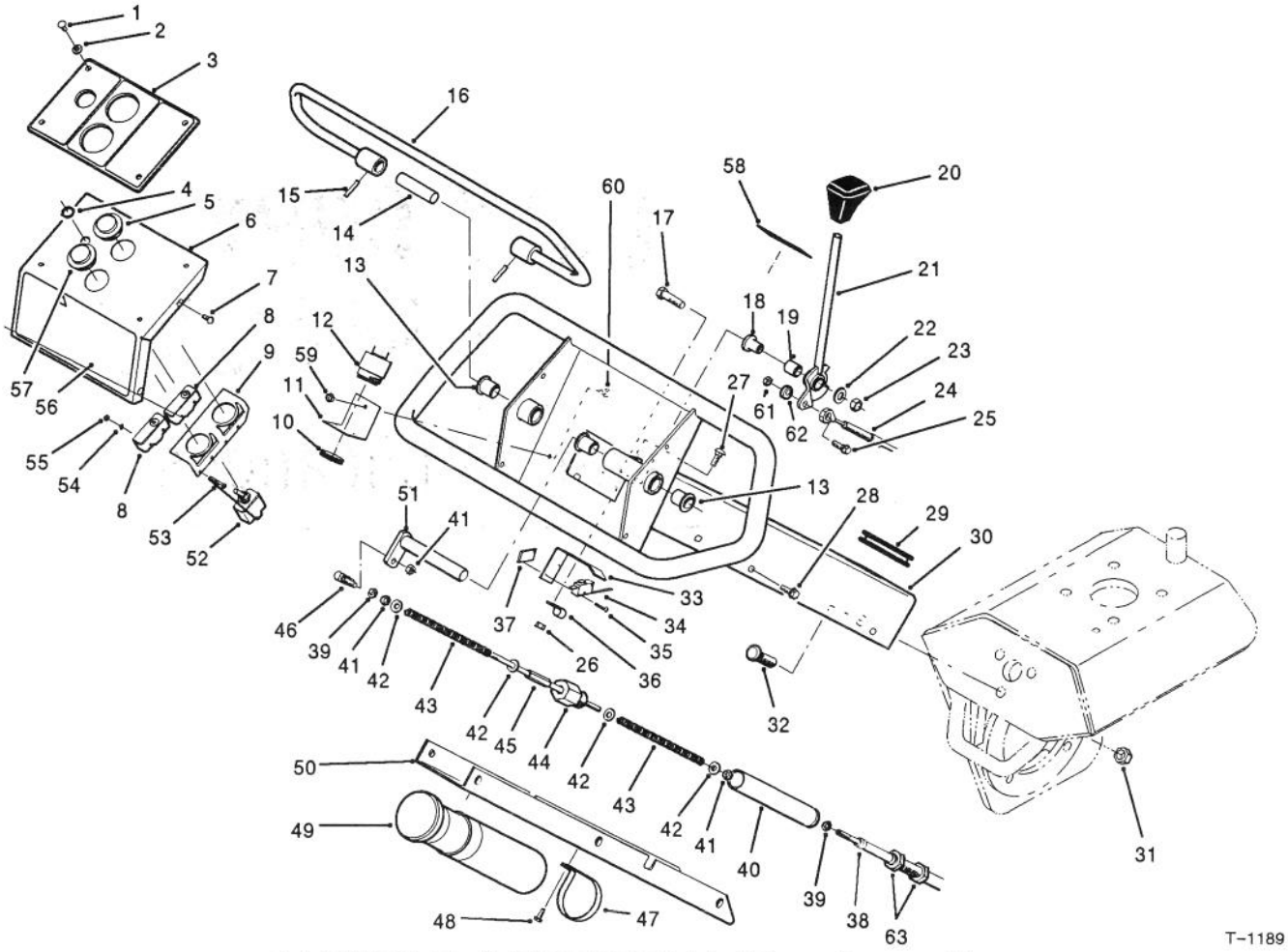
HANDLE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	32104-122	Screw - Pan Hd.	4
2	3256-77	Washer - Flat	4
‡3	80-9240	Panel - Control (English)	1
4	218-498	Nut - Locking	1
5	80-9290	Button - Switch (Green)	1
6	80-6780	Cover - Control	1
7	32104-115	Screw - Pan Hd.	4
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	32121-16	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	80-7140	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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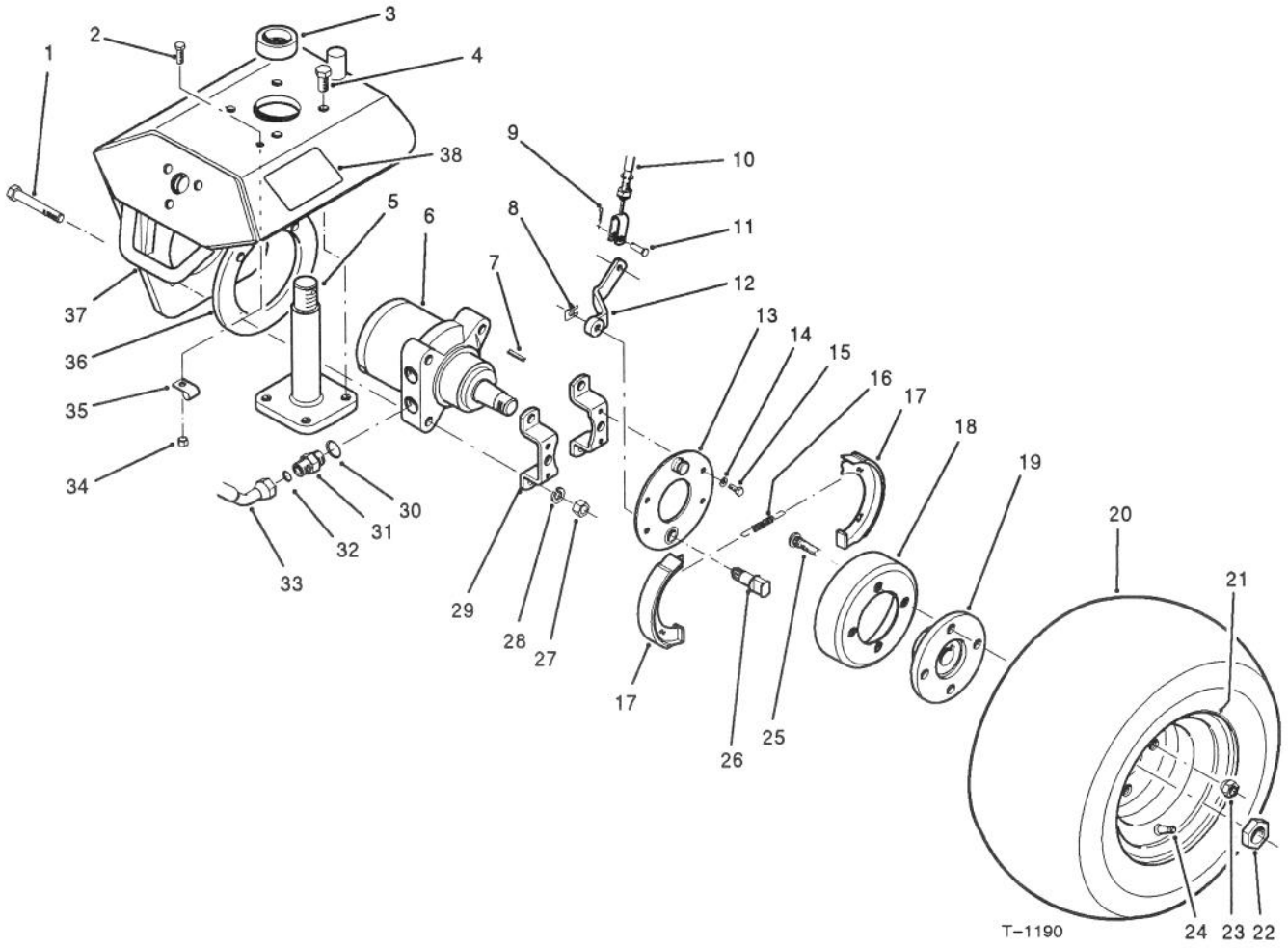


HANDLE ASSEMBLY (Continued)

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.



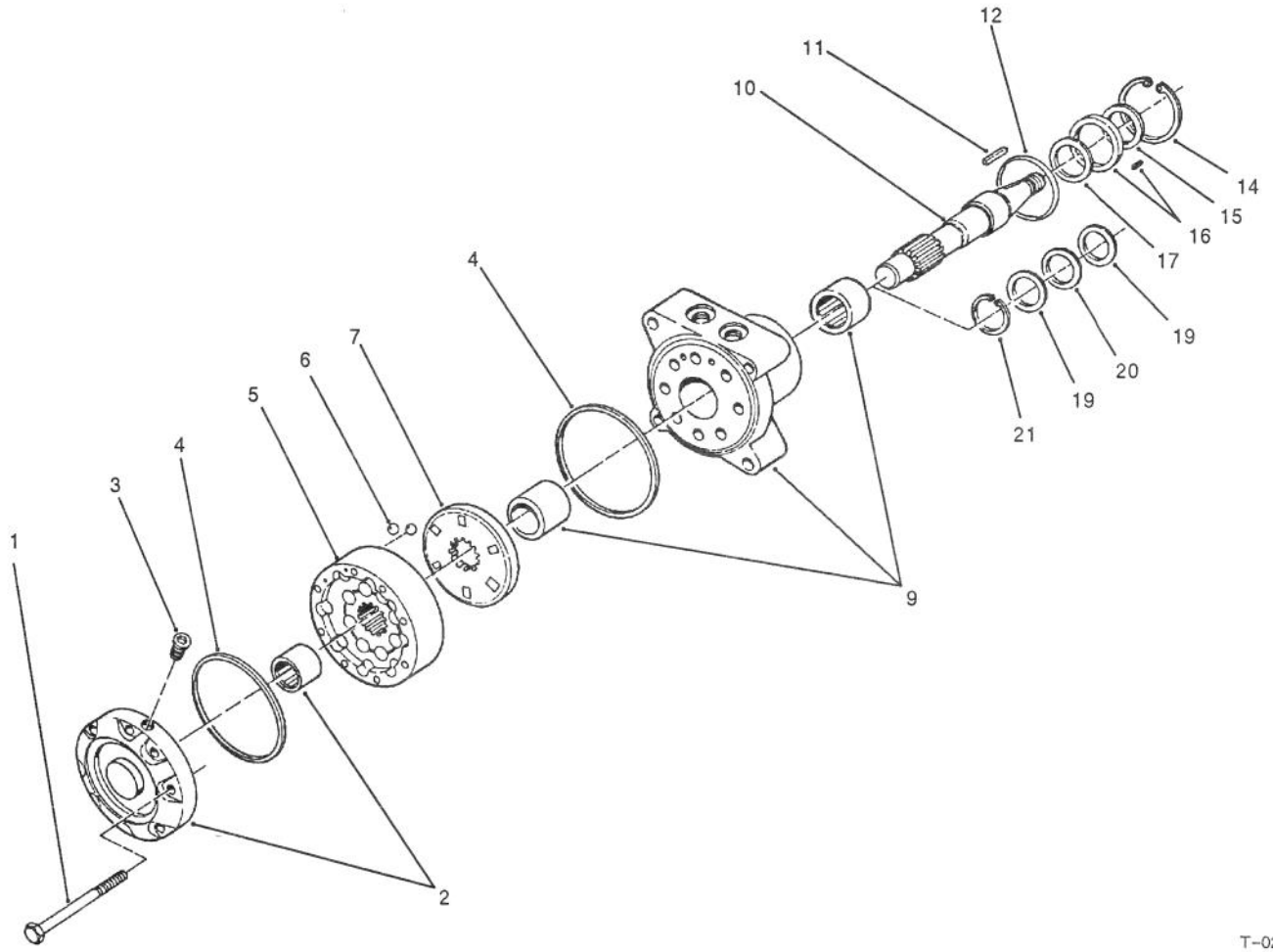
FRONT WHEEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	325-13	Screw - Cap Hex. Hd.	4
2	322-5	Screw - Cap Hex. Hd.	1
3	80-8670	Spacer - Steering	1
4	325-5	Screw - Cap Hex. Hd.	4
5	80-5220	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	80-7140	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	3296-29	Nut - Lock	1
35	2412-10	Clamp - R	1
36	71-0820	Mount - Motor	1
37	80-8800	Arm - Steering	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

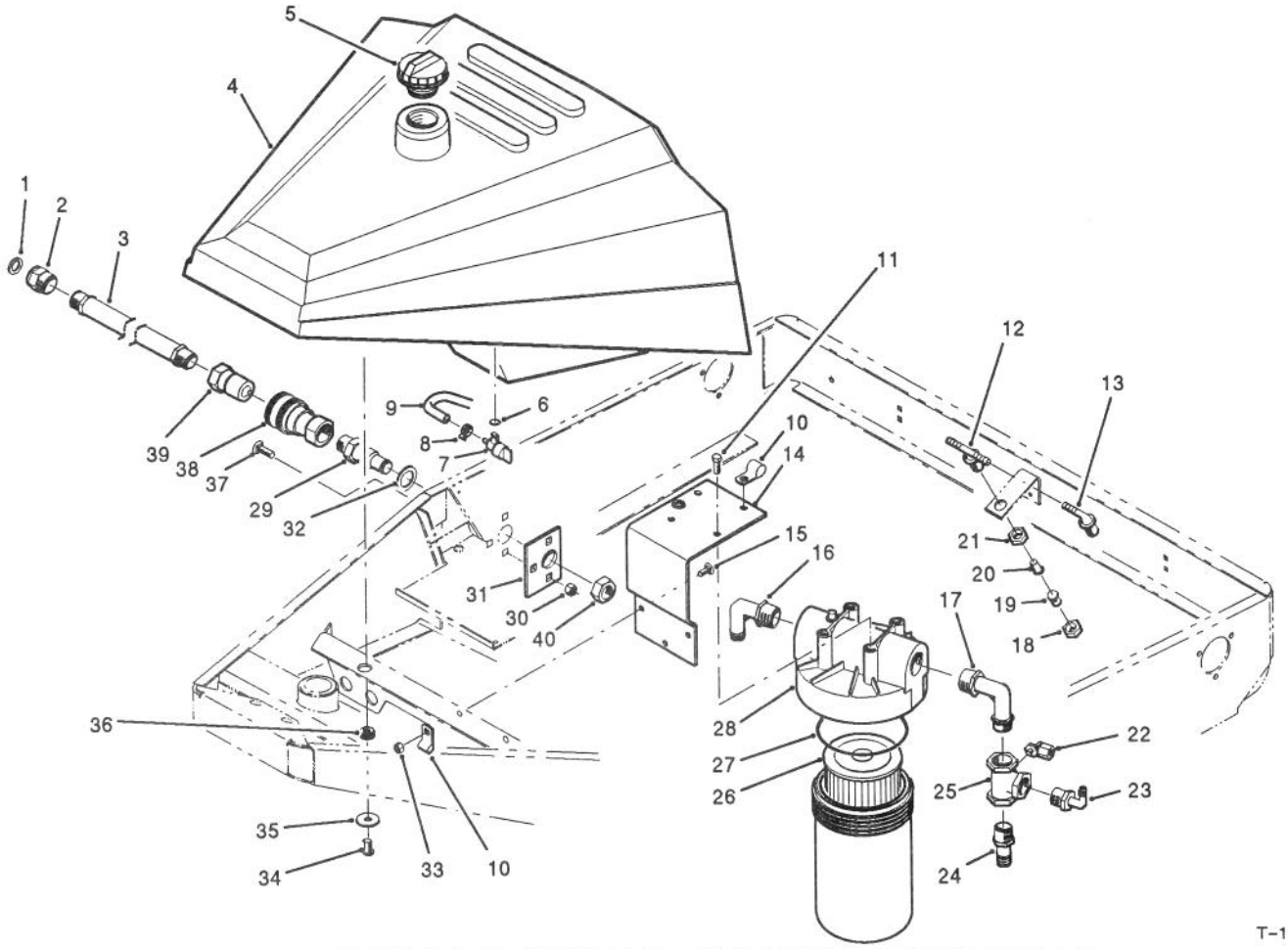
HYDRAULIC DRIVE MOTOR ASSEMBLY NO. 66-5293

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	70-8150	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.



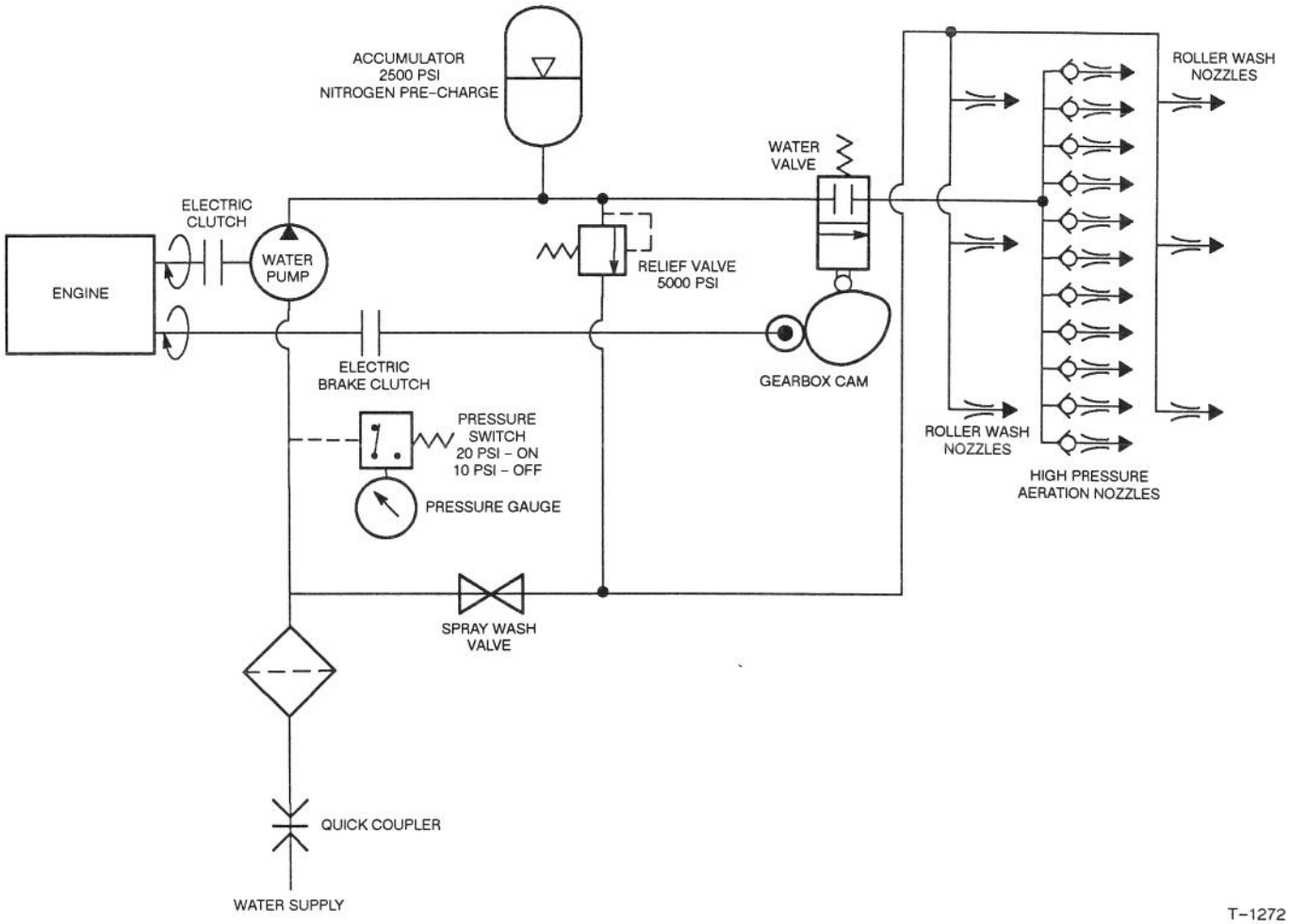
T-1196

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

Ref. No.	Part No.	Description	No. Used
21		Nut - Hex.	6
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	80-8600	Water Filter Housing (Incl. Ref. #27)	1
29	80-9500	Adapter - Bulkhead	2
30	3296-39	Nut - Lock	6
31	80-7260	Plate - Water Inlet	2
32	3256-42	Washer - Flat	2
33	3296-29	Nut - Lock	3
34	323-5	Screw - Cap Hex. Hd.	4
35	63-8410	Washer	4
36	240-11	Grommet	4
37	3231-27	Bolt - Carriage	6
38	354-88	Coupler - Female	1
39	354-89	Coupler - Male	1
40	3296-49	Nut - Lock	2

*Not Illustrated

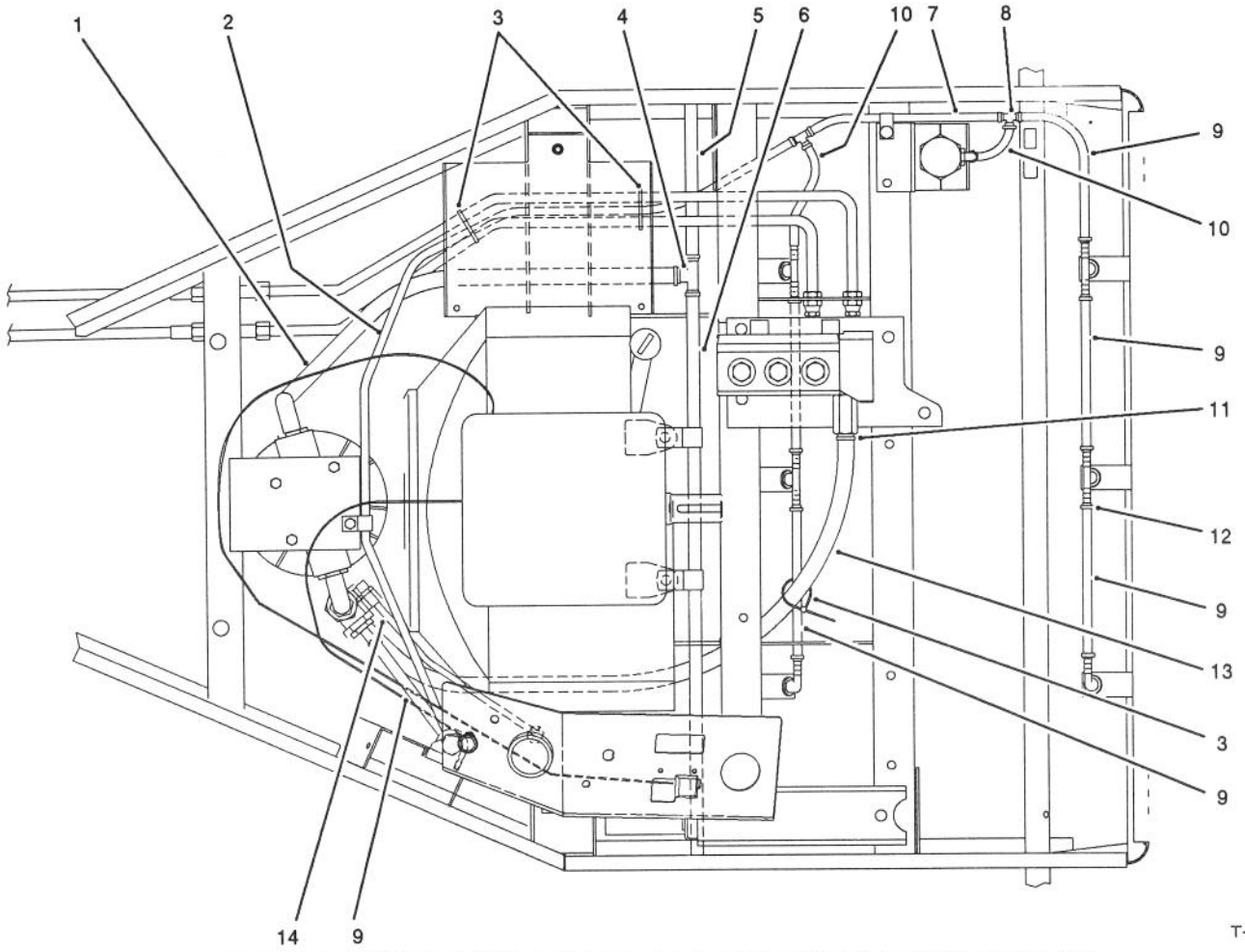


T-1272

WATER SYSTEM SCHEMATIC

Ref. No.	Part No.	Description	No. Used

Ref. No.	Part No.	Description	No. Used

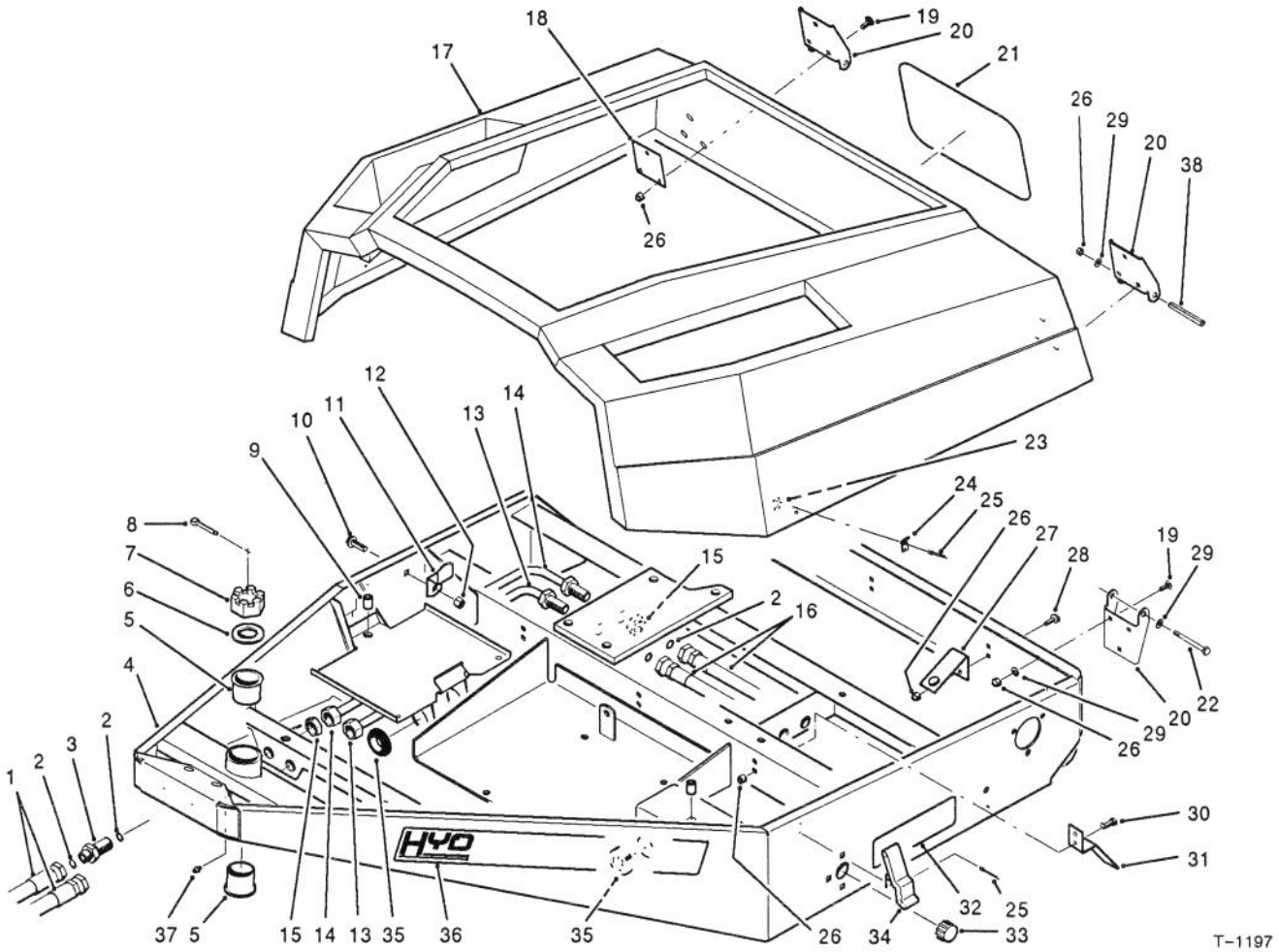


T-1275

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

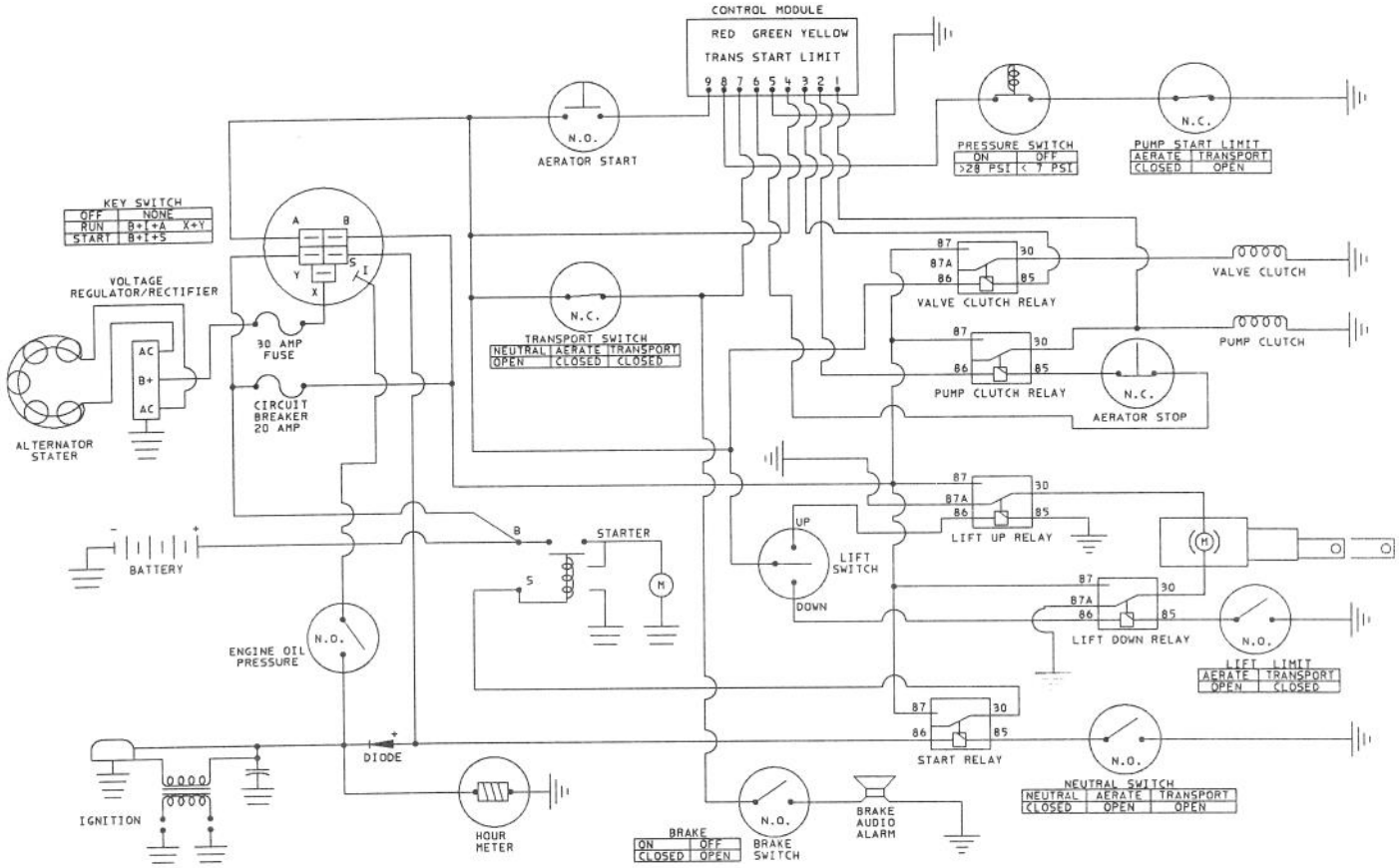


FRAME & COVER ASSEMBLY

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	80-6200	Frame	1
5	256-245	Bushing - Flange	2
6	61-2000	Washer - Steering	1
7	32136-9	Nut - Slotted	1
8	3272-30	Pin - Cotter	1
9	32148-9	Nut - Insert	3
10	3234-8	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.



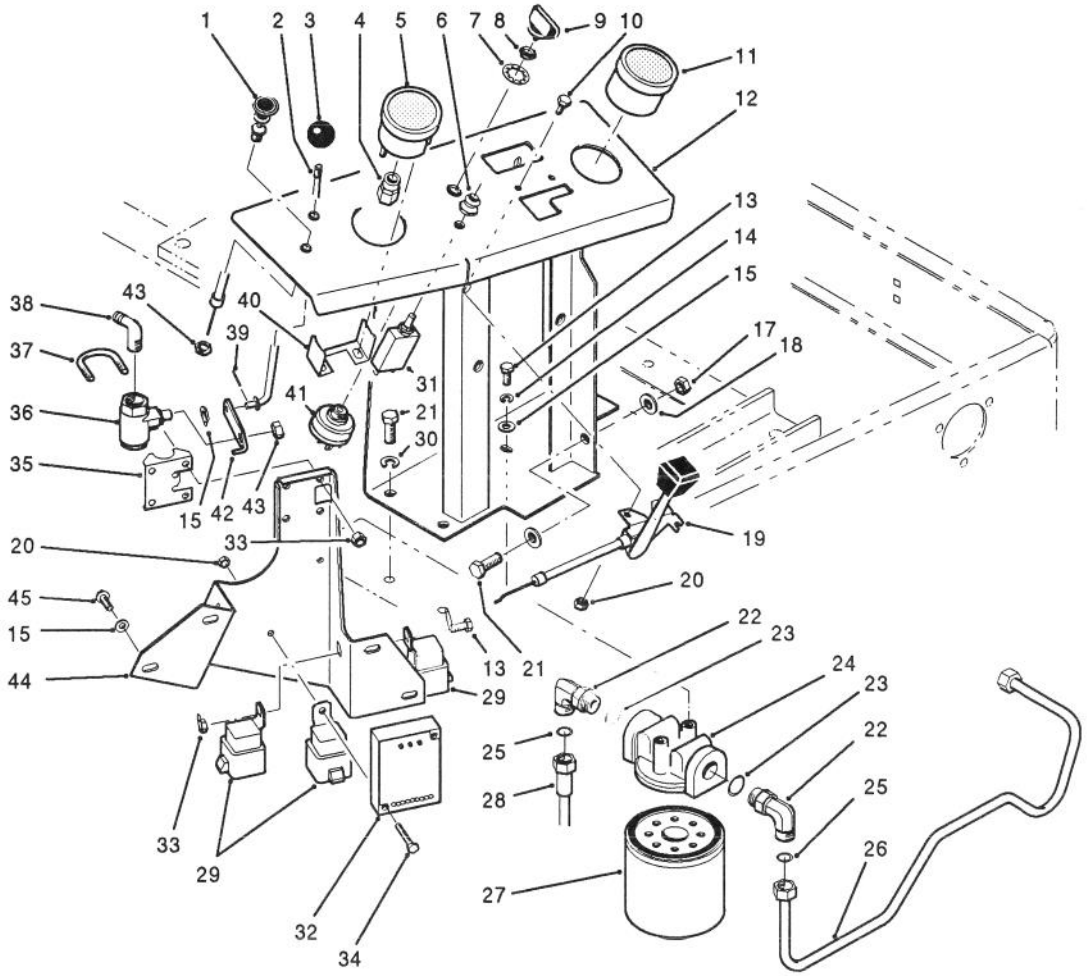
T-1237

ELECTRICAL SCHEMATIC

Ref. No.	Part No.	Description	No. Used
*	80-8700	Wire Harness - Main	1
*	80-7280	Wire Harness - Tiller	1

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

*Not Illustrated

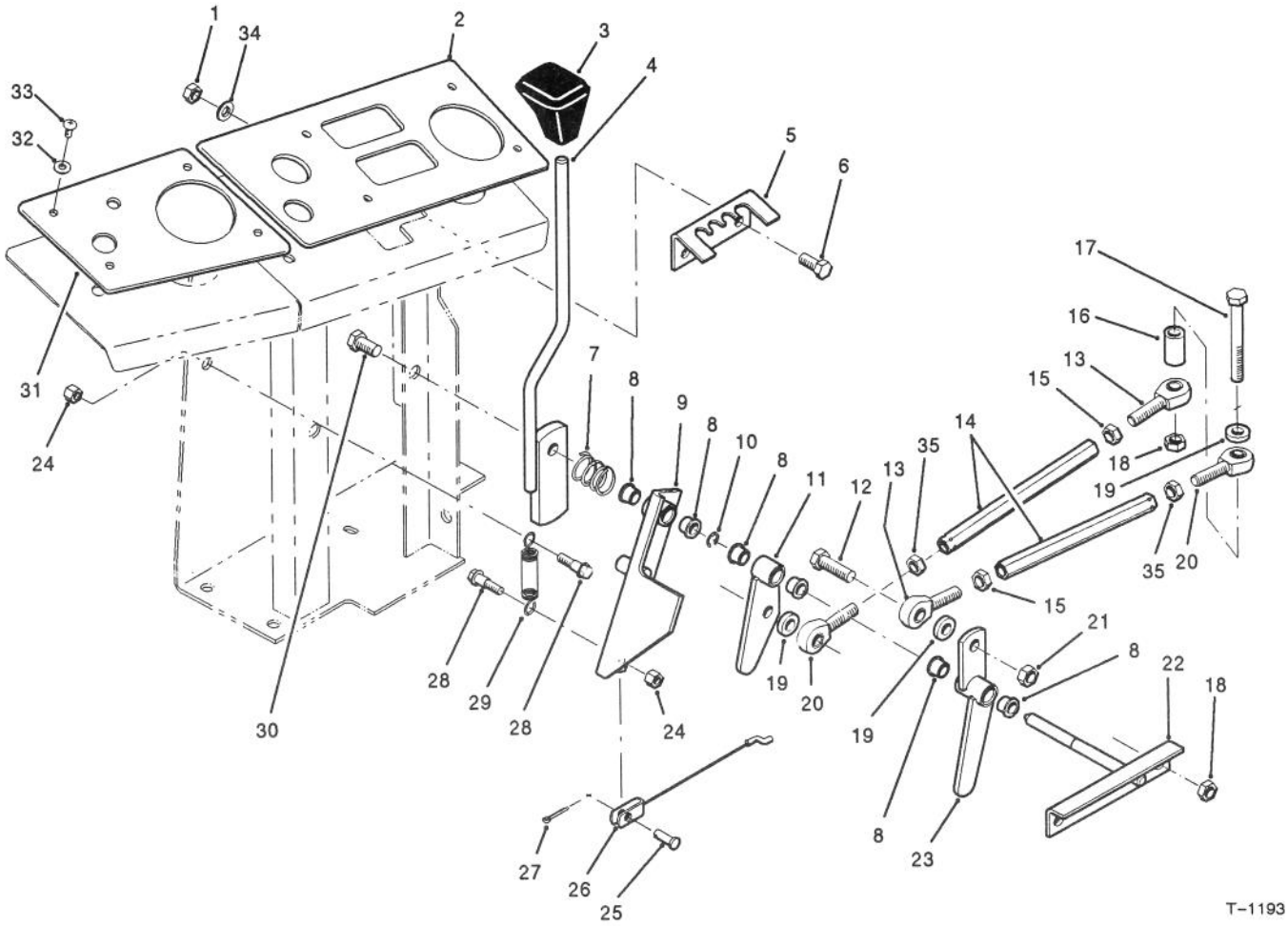


T-1203

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	Fitting - Hydraulic	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	80-8390	Tube - Hydraulic	1
27	67-8110	Element - Oil Filter	1
28	80-7350	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	80-8780	Valve	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	80-8310	Lever - Valve	1
43	3220-3	Nut - Jam	2
44	80-9550	Bracket - Relay	1
45	32104-95	Screw - Hex. Flange Hd.	4

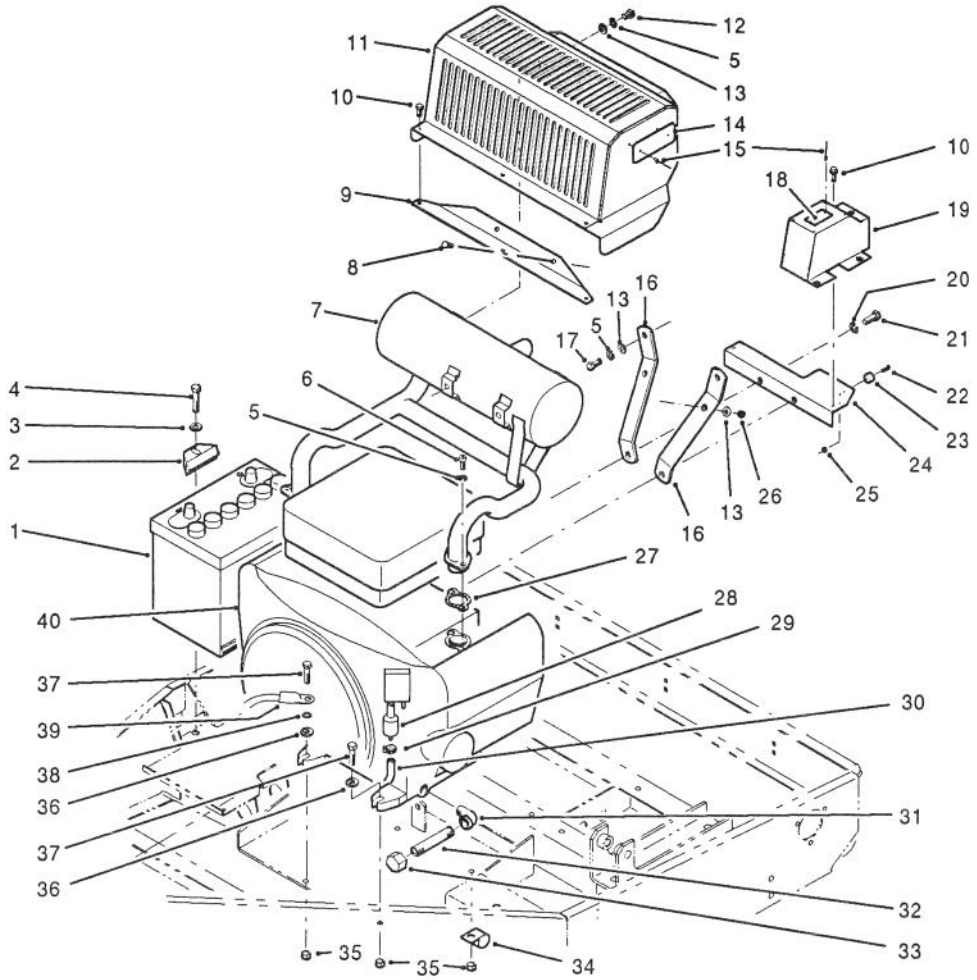


CONTROL LINKAGE ASSEMBLY

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	3296-42	Nut - Lock	2
25	283-67	Pin - Clevis	1
26	80-8430	Cable - Speed Control	1
27	3272-4	Pin - Cotter	1
28	43-7260	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	3256-77	Washer - Flat	8
33	32104-122	Screw - Pan 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

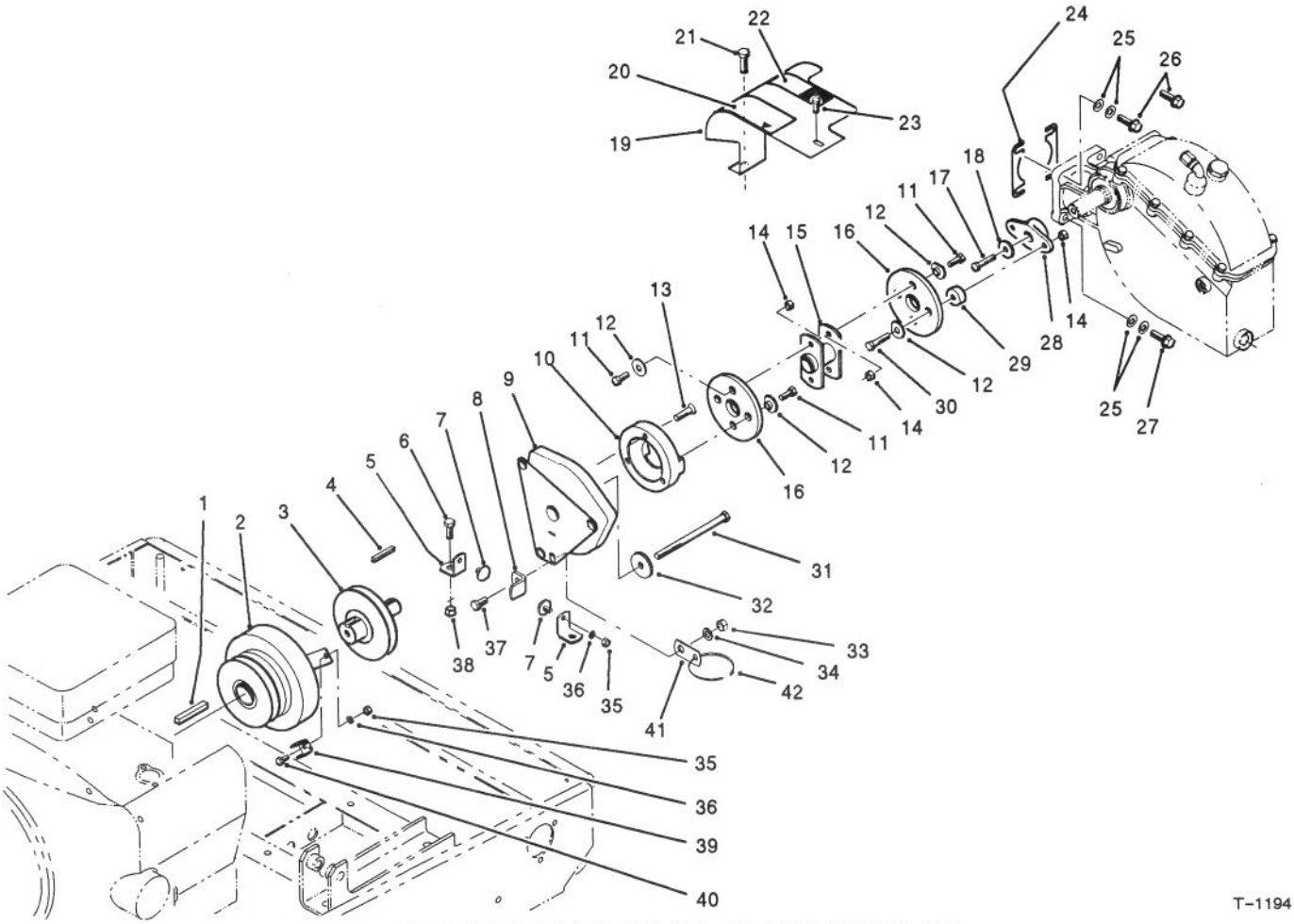
ENGINE INSTALLATION ASSEMBLY

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	80-9100	Guard - Muffler	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	80-5410	Guard - Muffler L.H.	1
*	80-5420	Guard - Muffler R.H.	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	289-46	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.

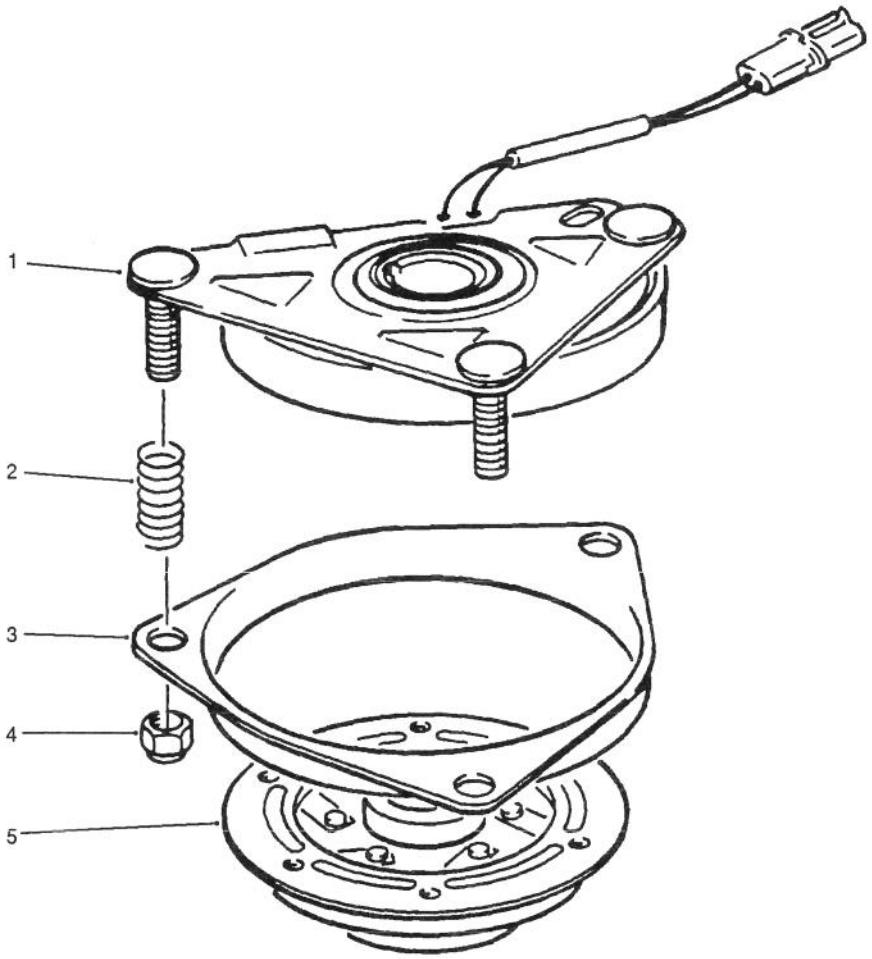


GEAR BOX DRIVE ASSEMBLY

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	80-8640	Stop - Clutch	2
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.	6
12	80-8620	Spacer - Coupler	8
13	32108-103	Screw - Flat Hd.	3
14	32152-1	Nut - Lock	6
15	80-6950	Shaft - Coupler	1
16	80-8650	Disc - Rubber	2
17	3210-8	Screw - Cap Hex. Hd.	1
18	80-8570	Washer	1
19	80-6970	Shield - Drive	1
‡20	80-8000	Decal - Warning (English)	1
21	32144-67	Screw - Hex. Washer Hd.	1
‡22	80-8040	Decal - Warning (English)	1
23	32104-95	Screw - Hex. Washer Hd.	1

Ref. No.	Part No.	Description	No. Used
24	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
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	322-7	Screw - Cap Hex. Hd.	2
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	3296-39	Nut - Lock	2
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.

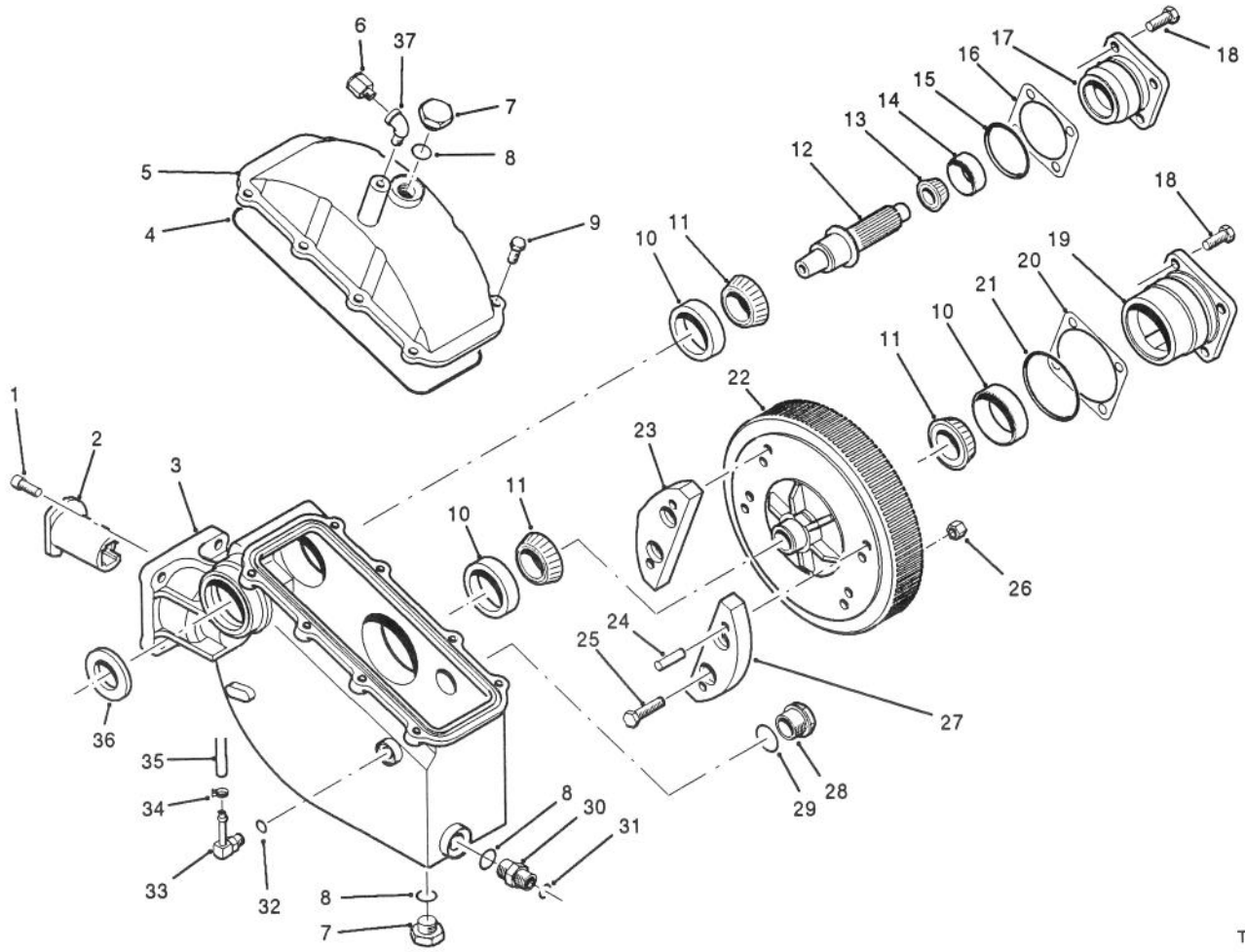


T-1274

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



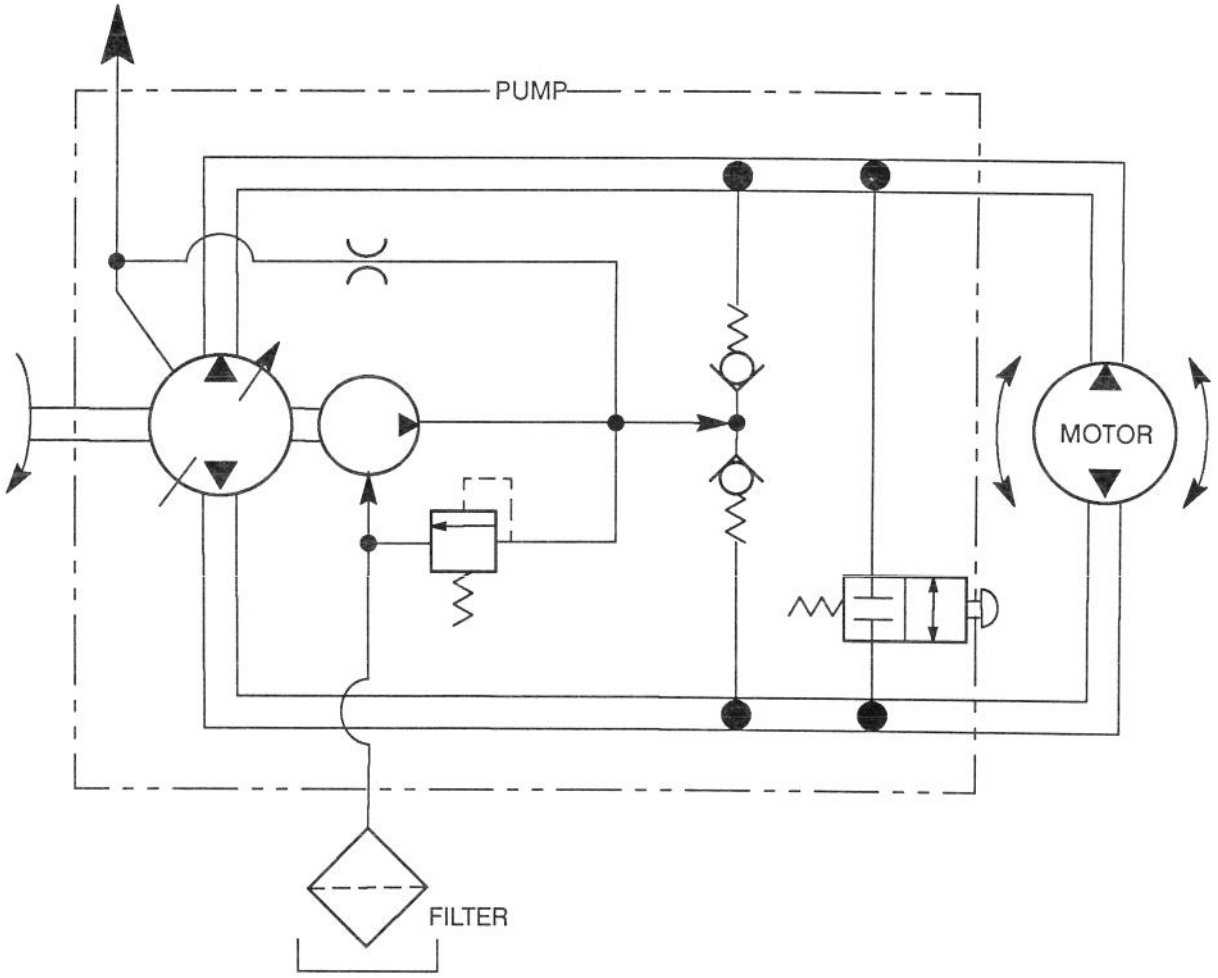
T-1199

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	340-4	Fitting - Hydraulic Str. (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

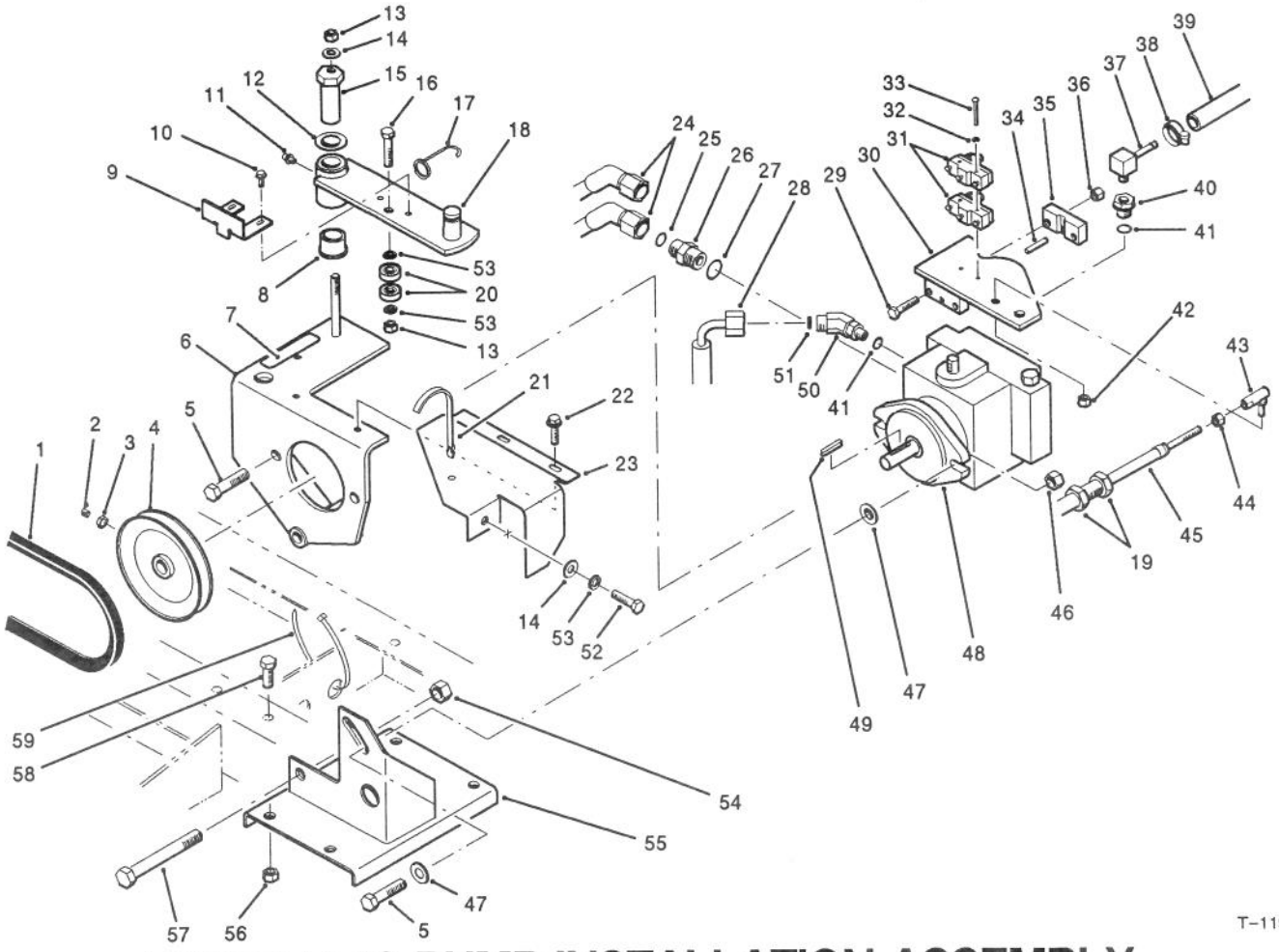


T-1273

HYDRAULIC SCHEMATIC

Ref. No.	Part No.	Description	No. Used

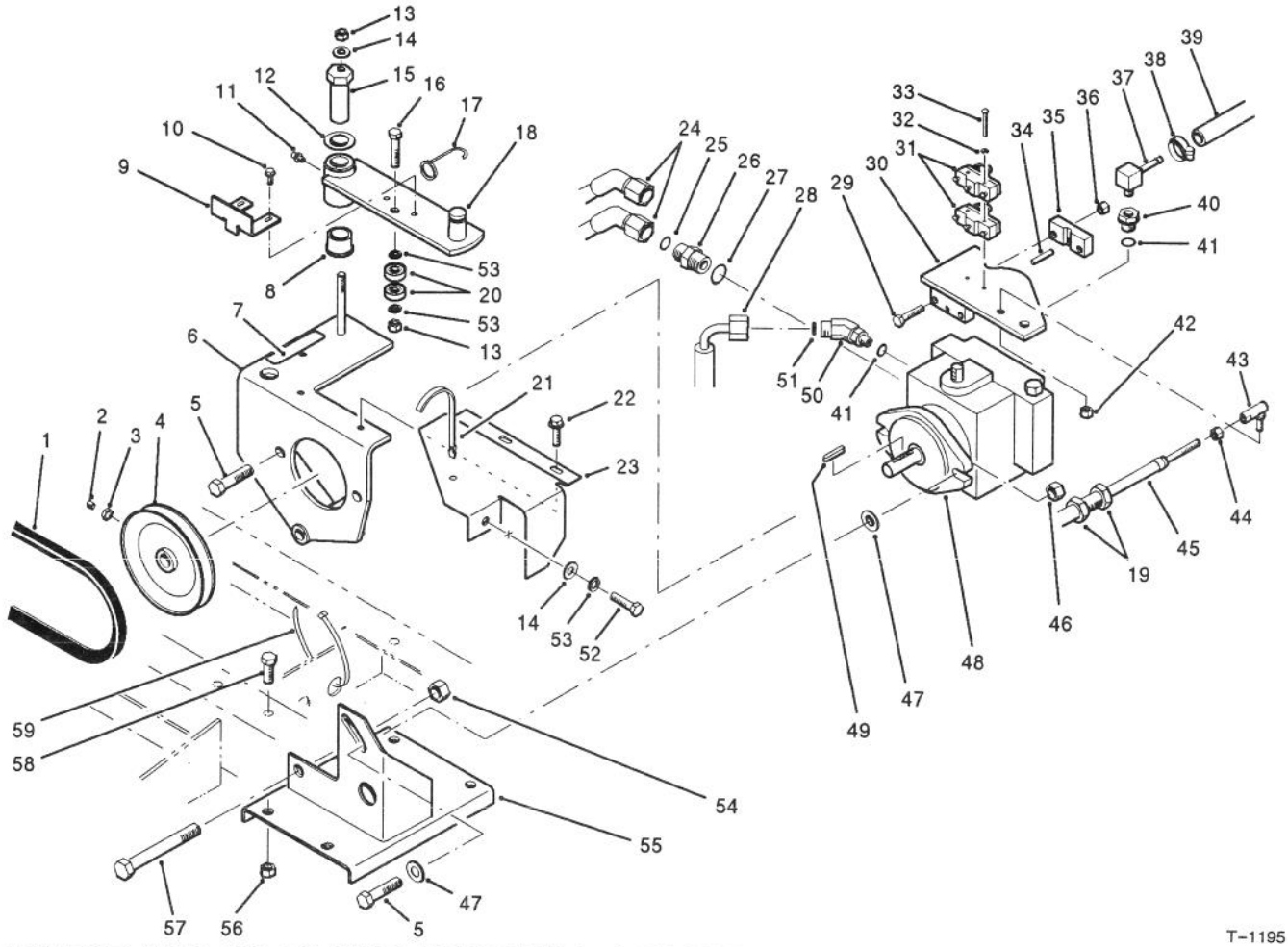
Ref. No.	Part No.	Description	No. Used



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	80-7500	Mount - Pump	1
‡7	80-8760	Decal - Danger (English)	1
8	256-113	Bushing - Flange	2
9	80-7770	Tab - Switch	1
10	32104-115	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
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
49	80-6090	Key - Pump	1
50	340-54	Fitting - Hydraulic 45° (Incl. Ref. #41 & 51)	1

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

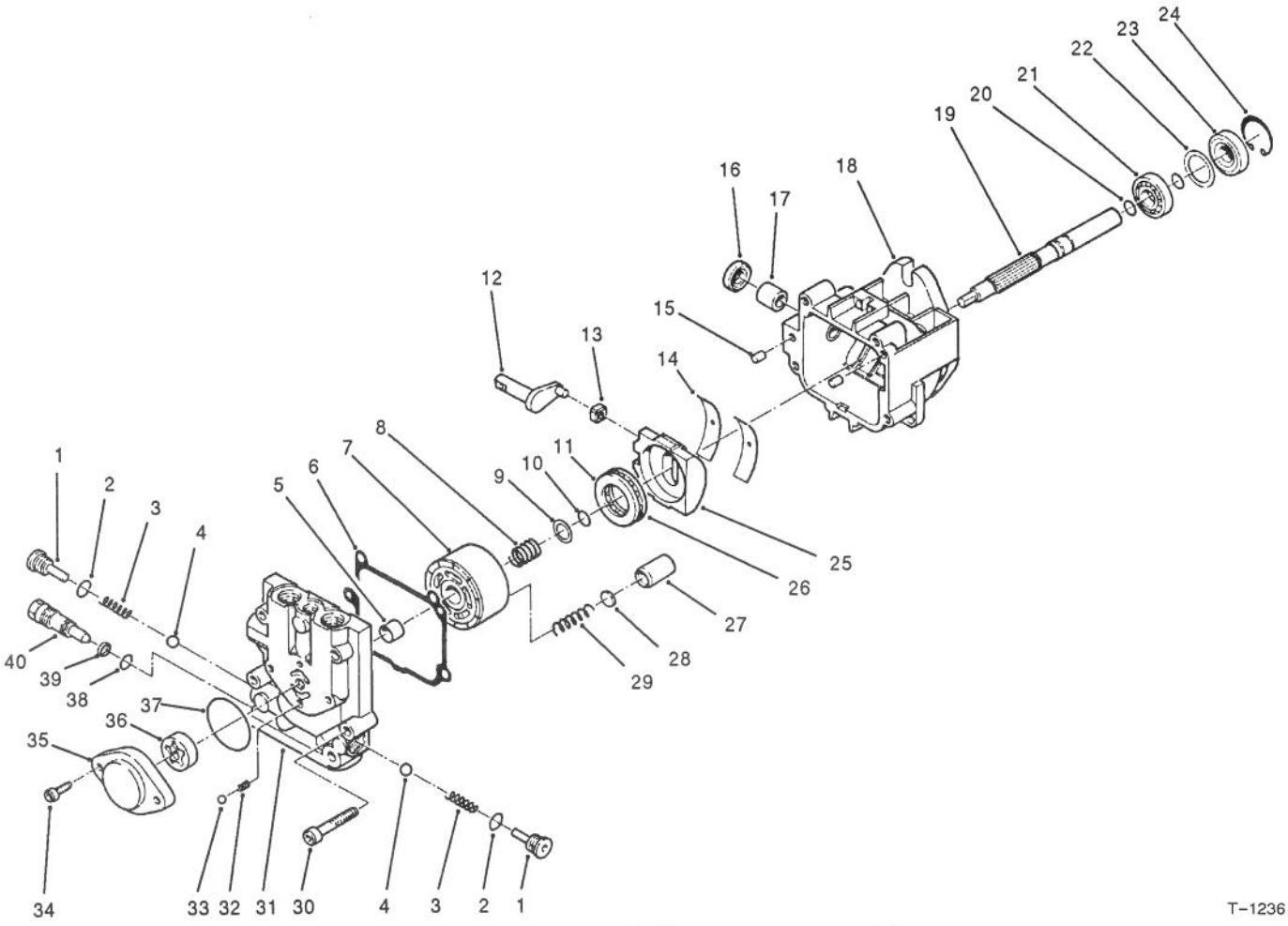


T-1195

HYDRAULIC PUMP INSTALLATION ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
51	237-22	Seal - O-Ring	1
52	322-5	Screw - Cap Hex. Hd.	1
53	3253-4	Washer - Lock	3
54	3296-23	Nut - Lock	1
55	80-7460	Support - Pump	1

Ref. No.	Part No.	Description	No. Used
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

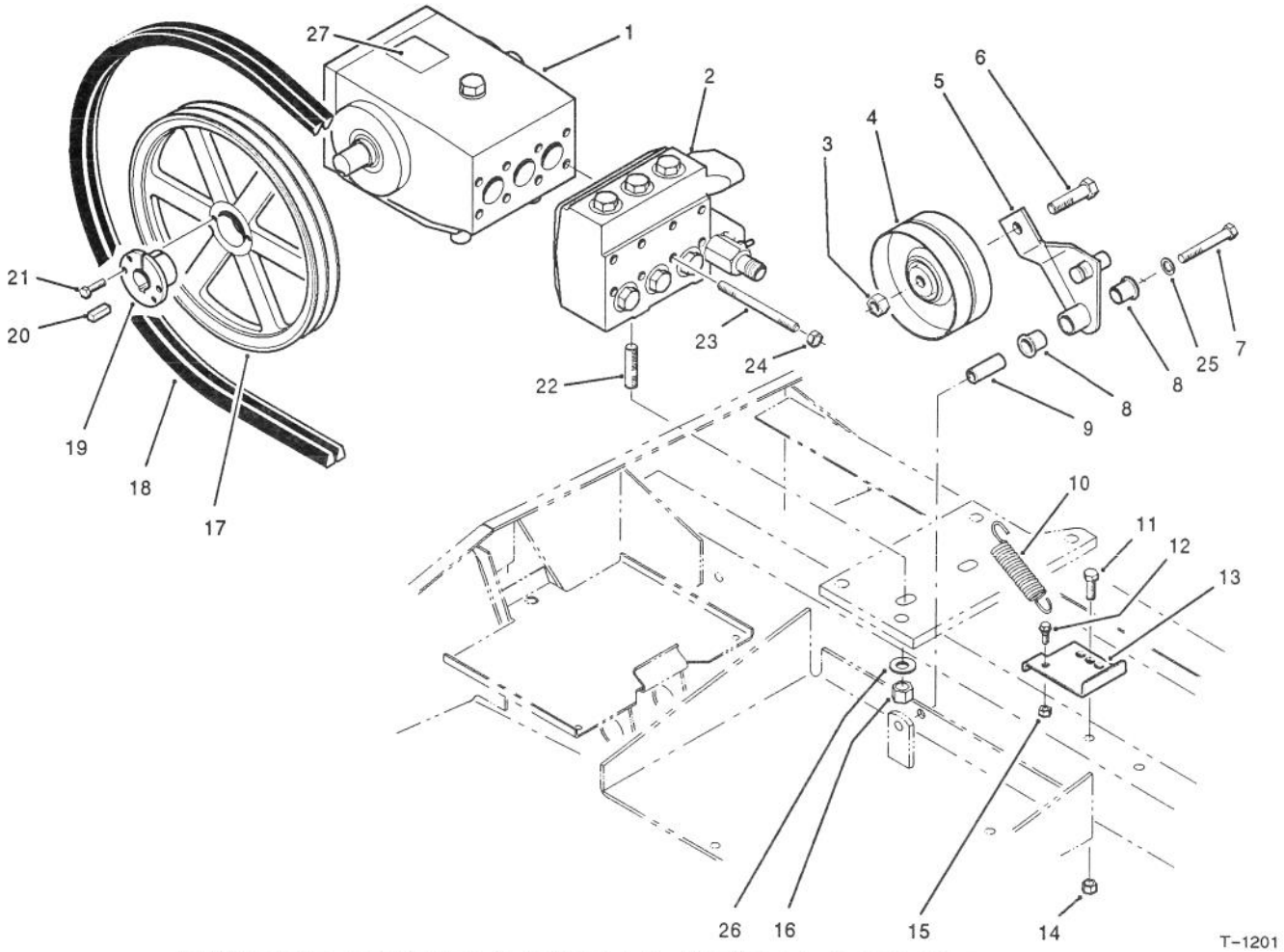


T-1236

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

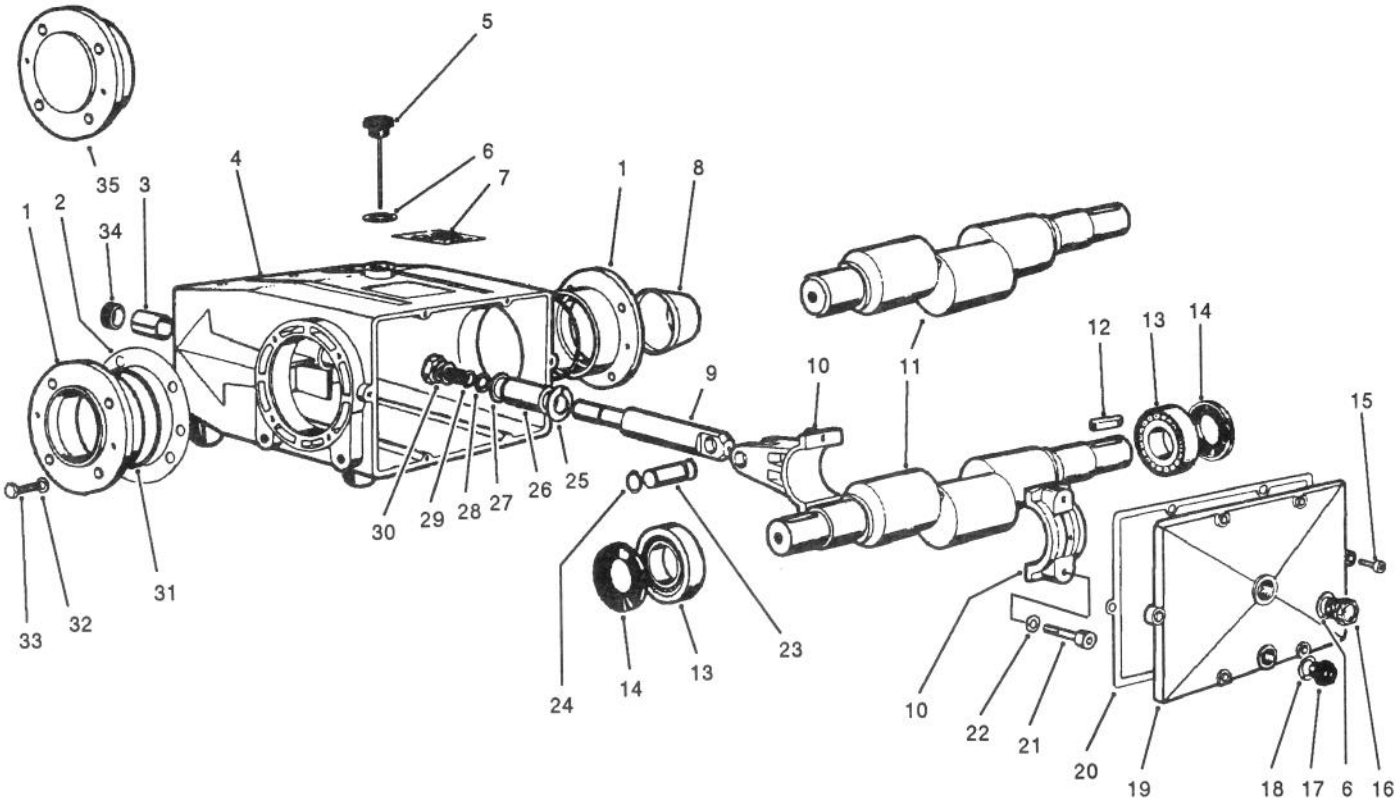
*Not Illustrated



WATER PUMP INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	80-9210	Pump Crankcase Assembly (Incl. Ref. #20)	1
2	80-5020	Head - Pump	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	256-90	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	43-7260	Bolt - Shoulder	1
13	80-6600	Bracket - Spring	1
14	3296-39	Nut - Lock	1

Ref. No.	Part No.	Description	No. Used
15	3296-42	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



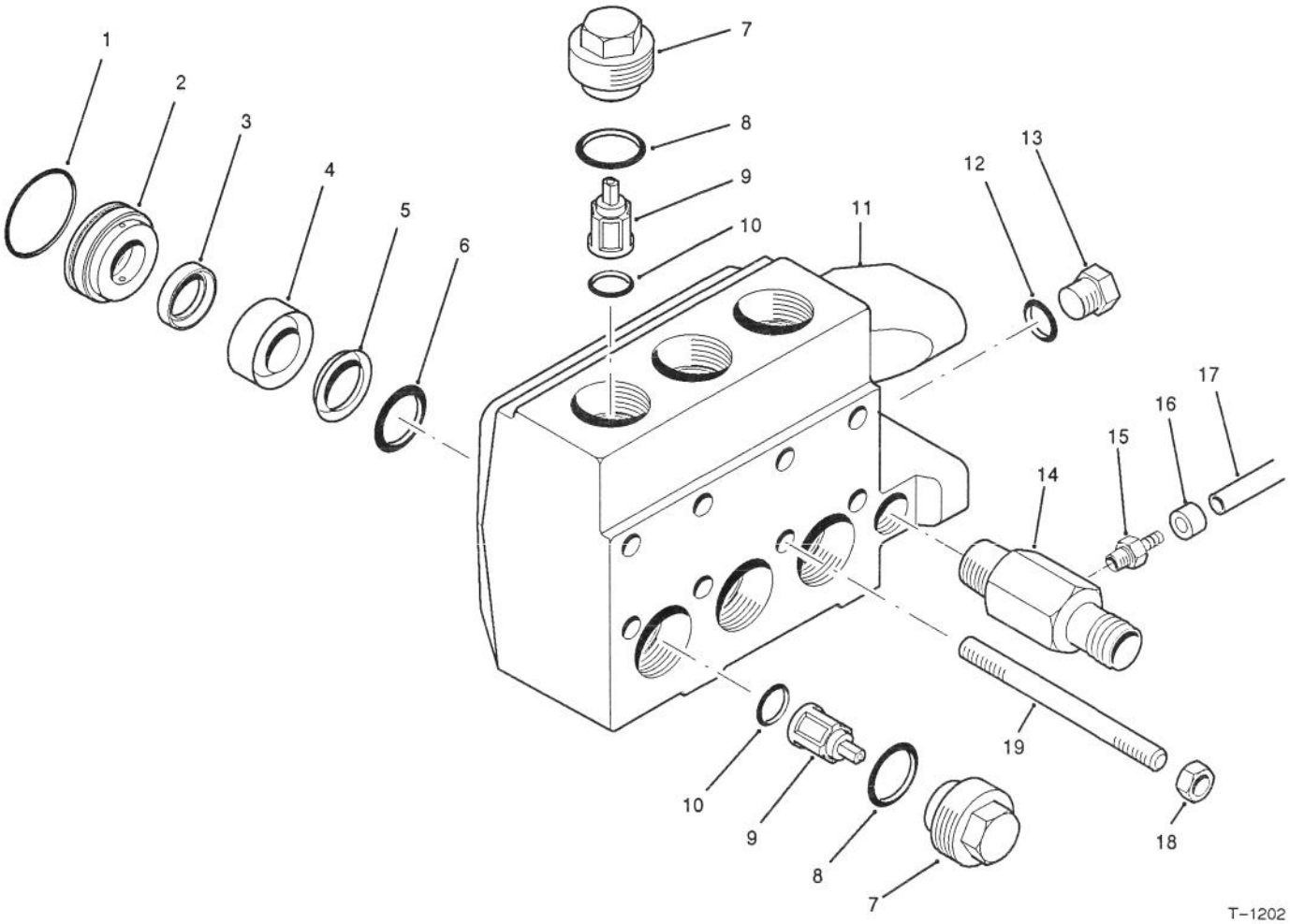
T-1307

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
*	80-9210	Water Pump Crankcase (Complete)	1

*Not Illustrated

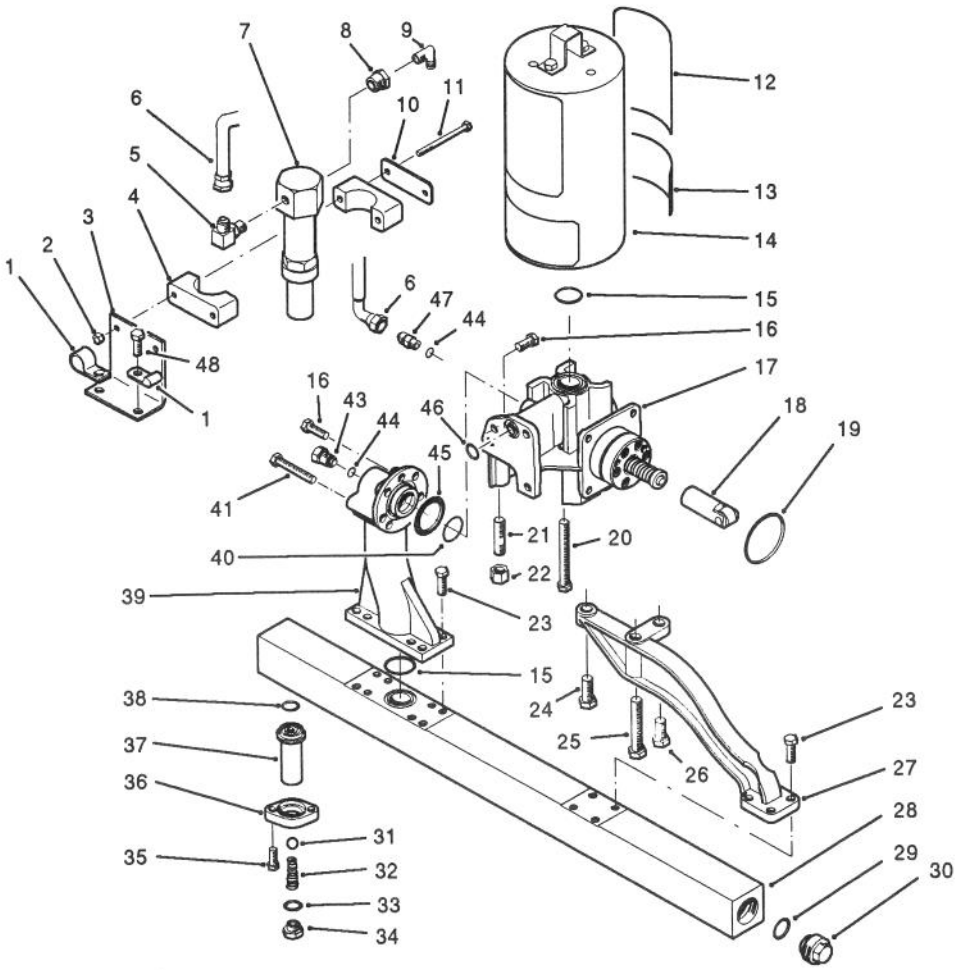


WATER PUMP HEAD ASSEMBLY

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

Ref. No.	Part No.	Description	No. Used
11	80-5020	Head - Pump	1
12	80-5794	Seal - O-Ring	1
13	354-82	Plug Assembly (Incl. Ref. #12)	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

*Not Illustrated



T-1200

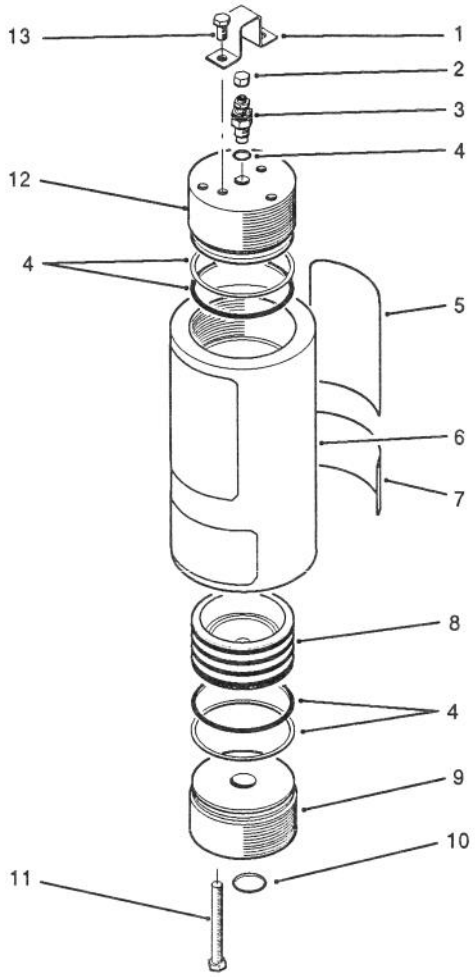
WATER MANIFOLD & VALVE ASSEMBLY

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.	7
17		Valve Assembly	1
18	80-5580	Follower - Cam	1
19	237-173	Seal - O-Ring	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
24	325-5	Screw - Cap Hex. Hd.	1
25	325-12	Screw - Cap Hex. Hd.	1

Ref. No.	Part No.	Description	No. Used
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	255-8	Ball - Check	11
32	80-5690	Spring - Conical	11
33	80-6680	Washer	11
34	14-5089	Nozzle Assembly (#53) (Incl. Ref. #31-33) (Std.)	11
*†	14-5099	Nozzle Assembly (#46) (Incl. Ref. #31-33) (Opt.)	6
*†	14-5109	Nozzle Assembly (#56) (Incl. Ref. #31-33) (Opt.)	6
35	3210-4	Screw - Cap Hex. Hd.	22
36	80-8240	Flange - Nozzle	11
37	80-5390	Extension - Nozzle	11
38	80-5786	Seal - O-Ring	11
39	80-8210	Feeder - Manifold	1
40	80-5780	Seal - O-Ring	1
41	323-13	Screw - Cap Hex. Hd.	4
43	80-8230	Plug	1
44	80-5793	Seal - O-Ring	2
45	80-5785	Seal - O-Ring	1
46	80-5782	Seal - O-Ring	1
47	354-111	Fitting - Water Straight	1
48	32144-67	Screw - Cap Hex. Hd.	2

*Not Illustrated †Refer to Product Operators Manual

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



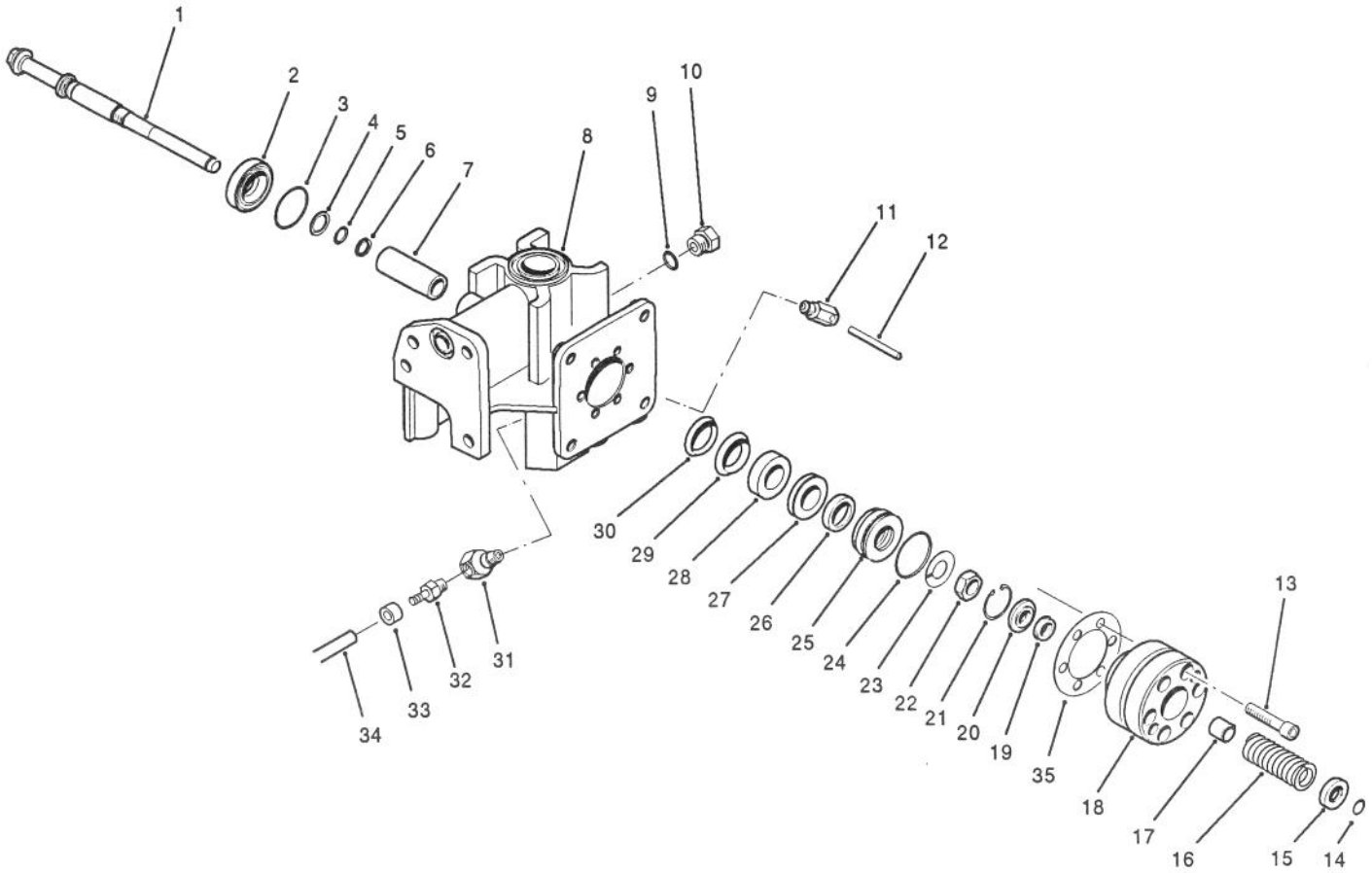
T-1257

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

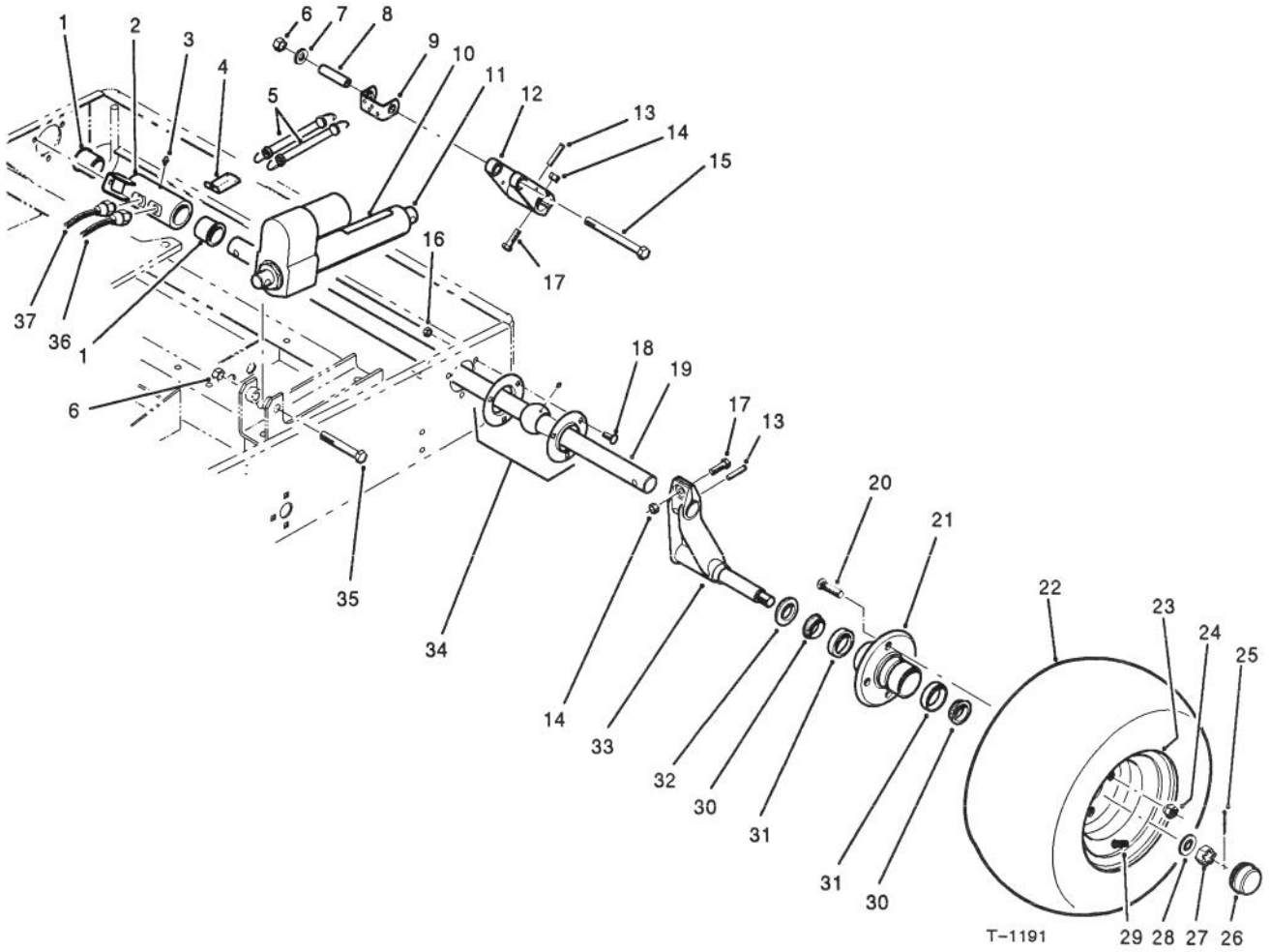
Note: Accumulator is shipped without gas pressure, it must be charged by an Authorized Toro Technician prior to use. ‡For different language versions of this part, see International Decal Cross Reference.



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	80-5040	Body - Valve	1
9	80-5794	Seal - O-Ring	1
10	354-82	Plug	1
11	80-8520	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

Ref. No.	Part No.	Description	No. Used
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
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
*	80-6050	Sleeve Kit (Incl. Ref. #4-7 & 23)	1

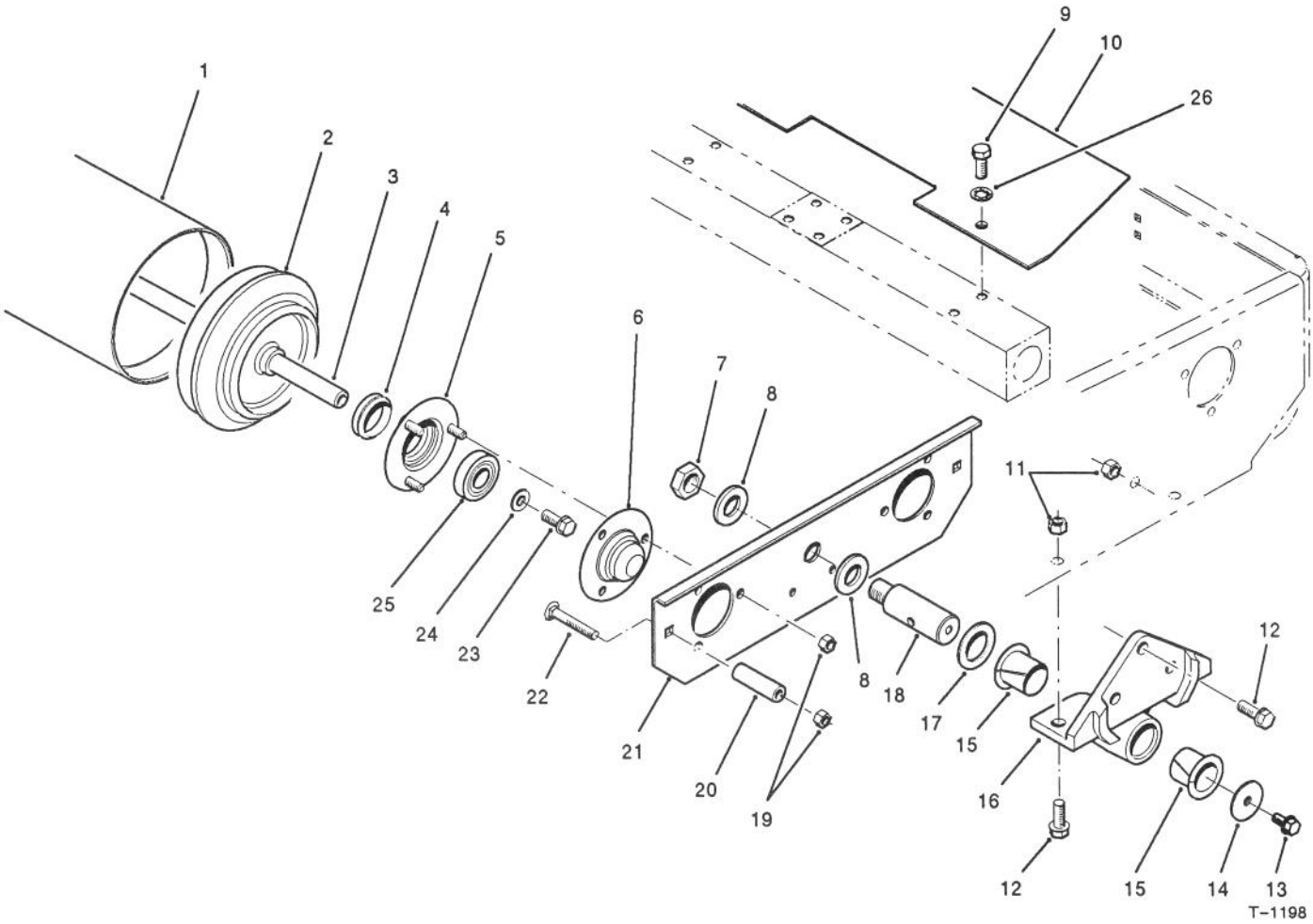


REAR AXLE ASSEMBLY

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	80-5510	Lift Actuator Assembly	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	3230-23	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

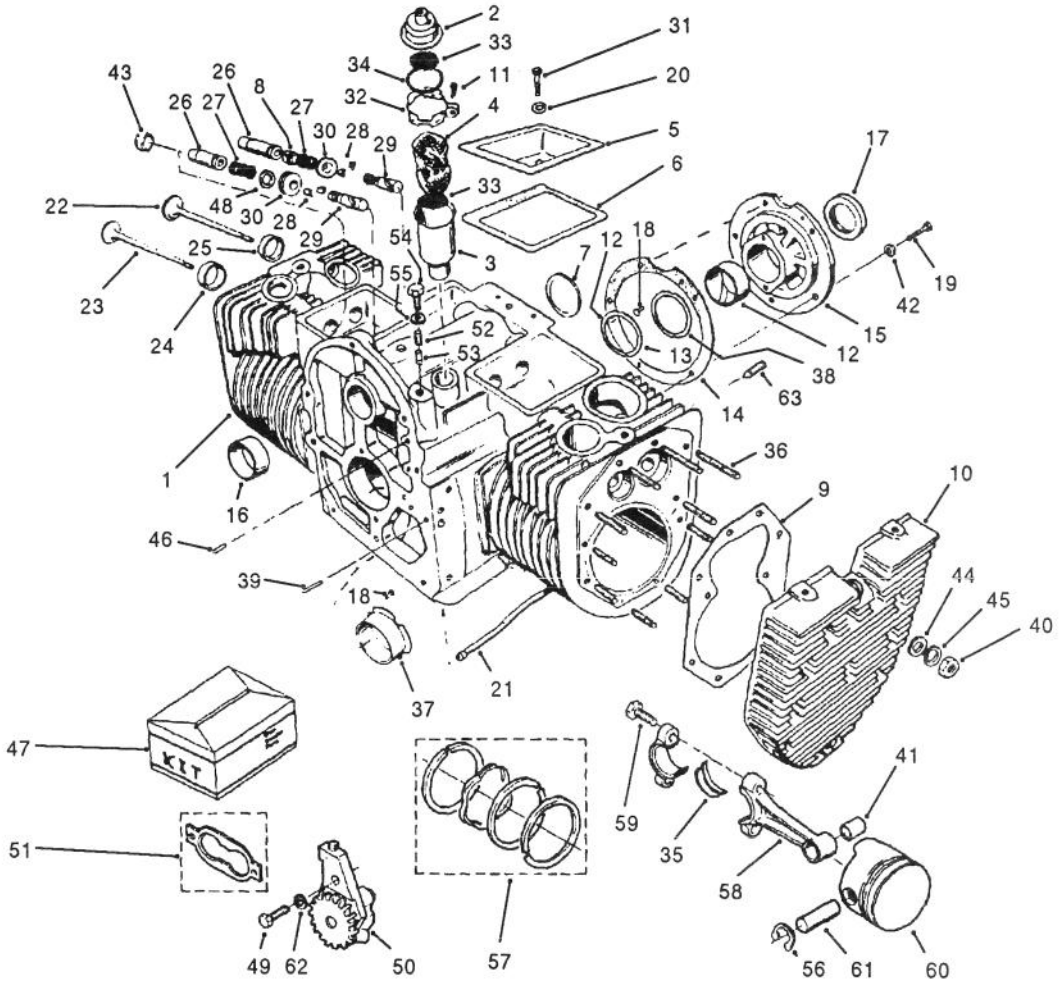
‡For different language versions of this part, see International Decal Cross Reference.



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	3234-8	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

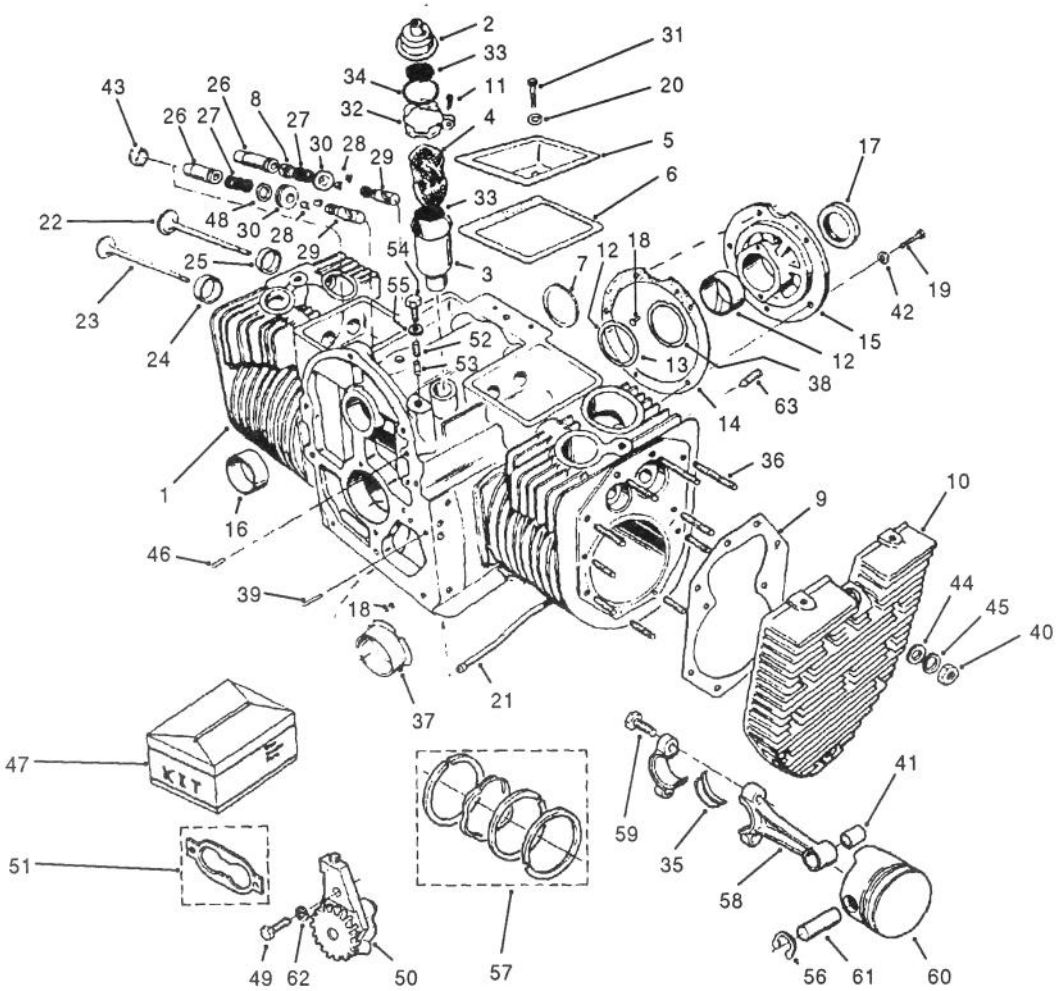


ENGINE CYLINDER BLOCK ASSEMBLY

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

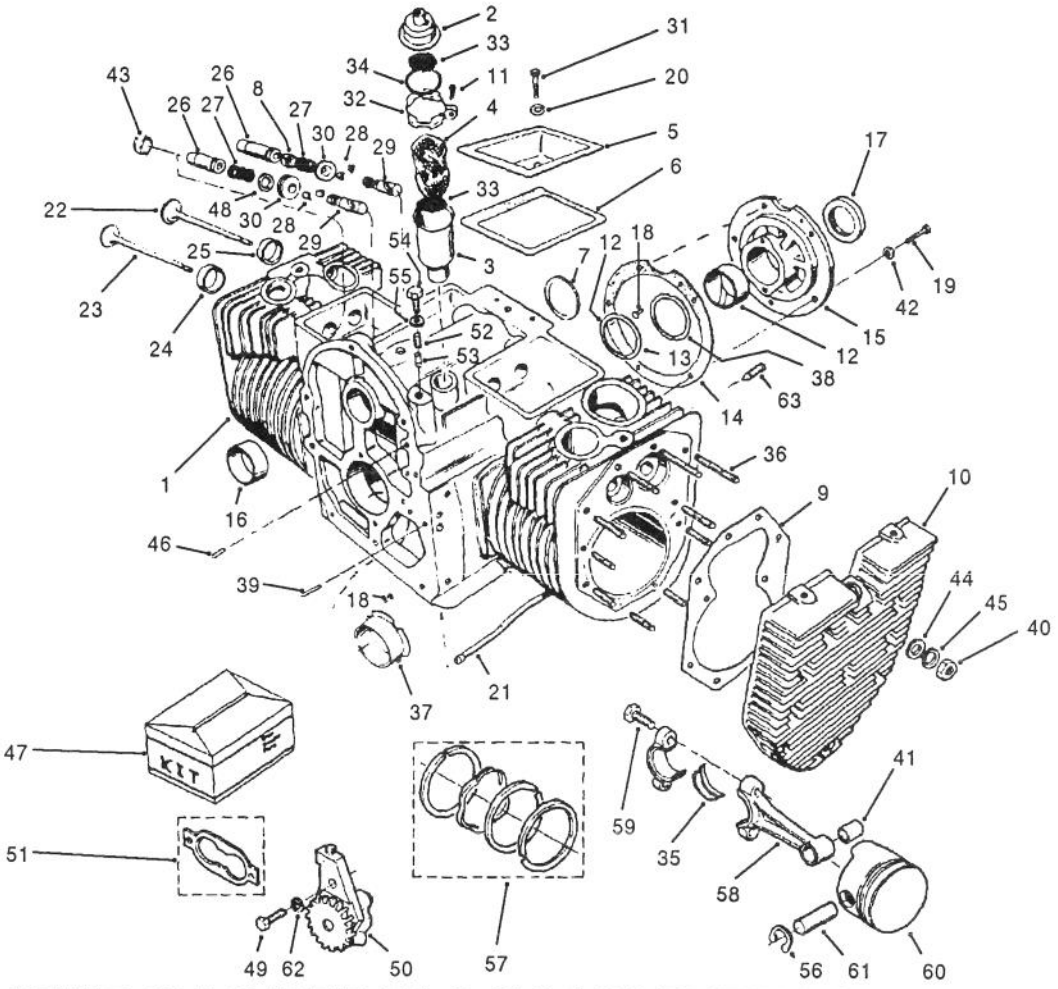


ENGINE CYLINDER BLOCK ASSEMBLY (Continued)

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

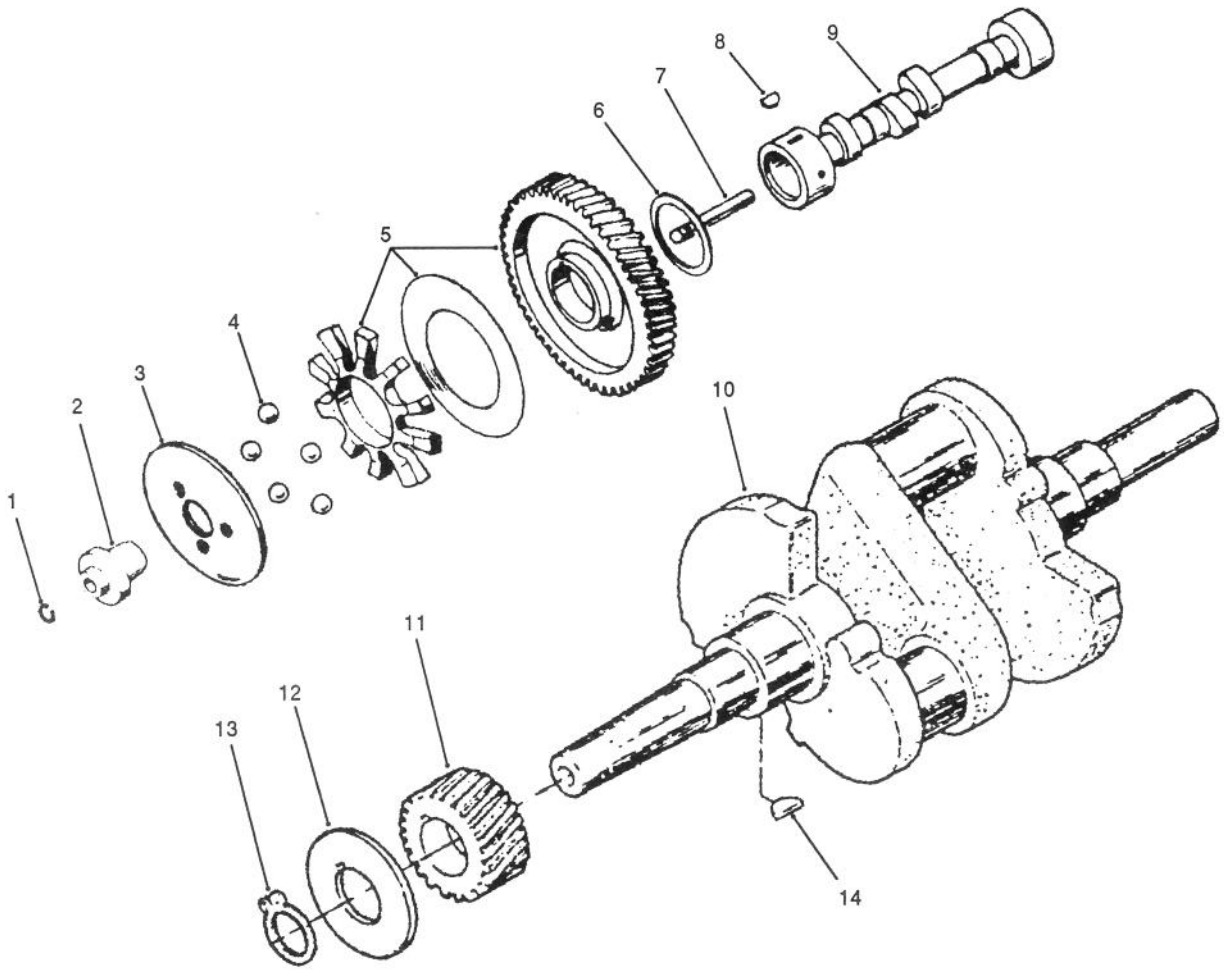


ENGINE CYLINDER BLOCK ASSEMBLY (Continued)

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

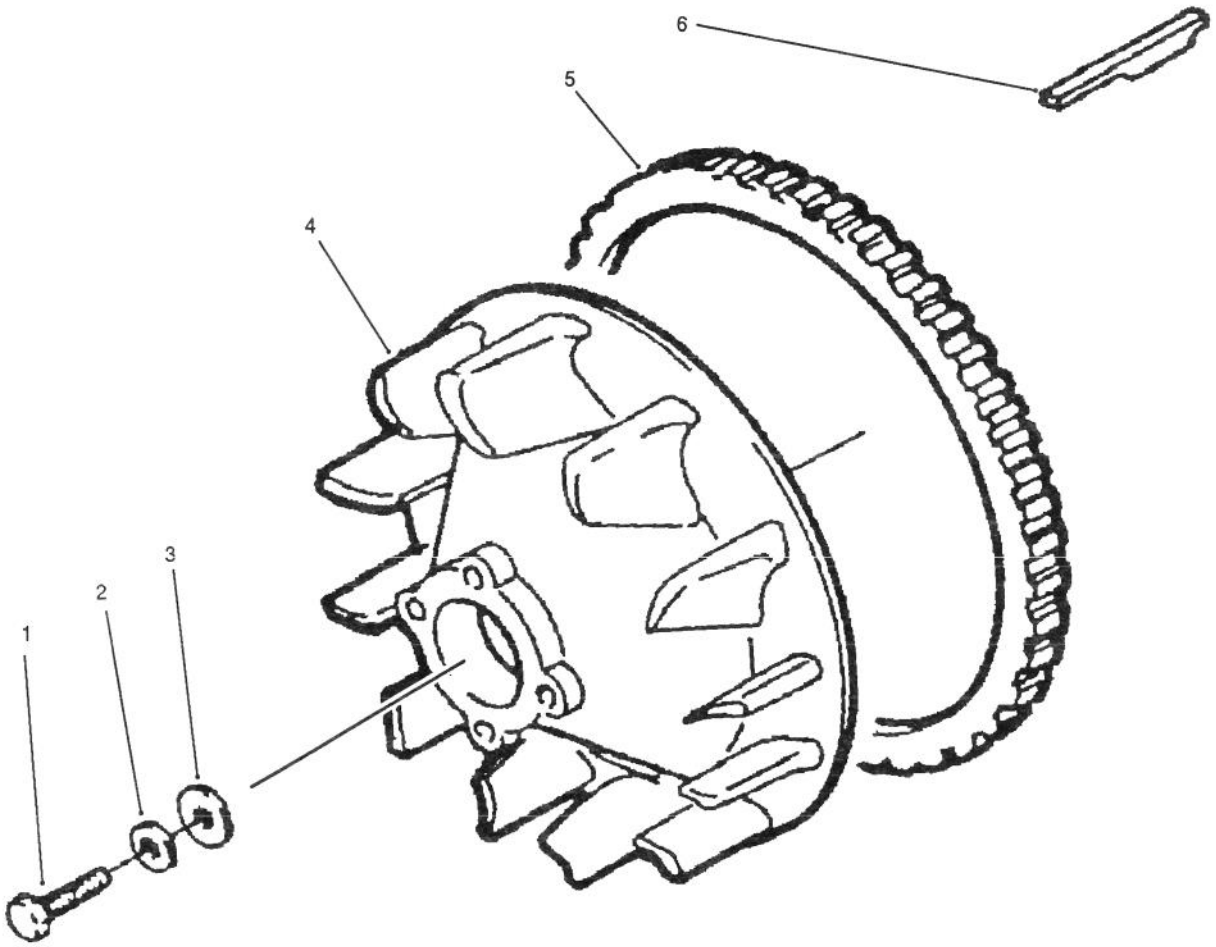


T-1259

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

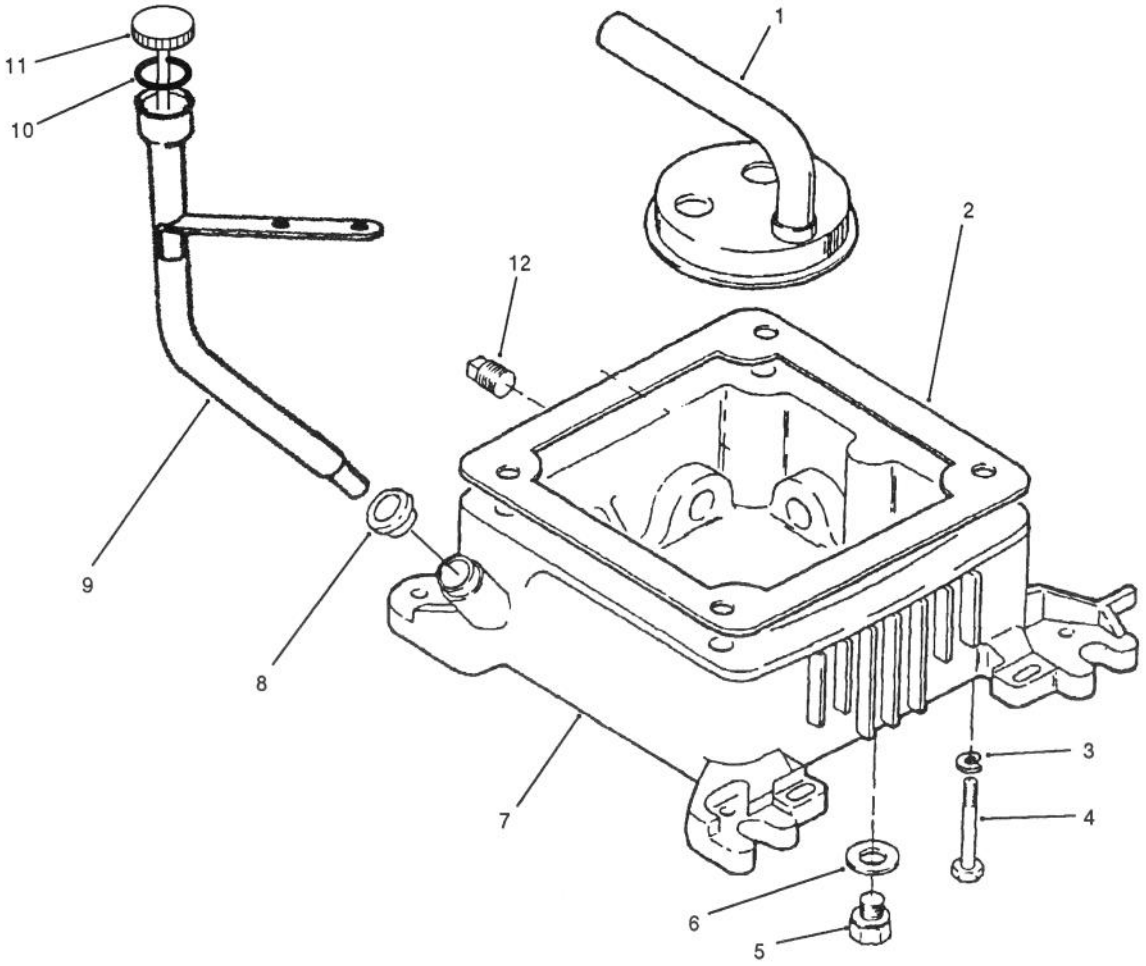


T-1260

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

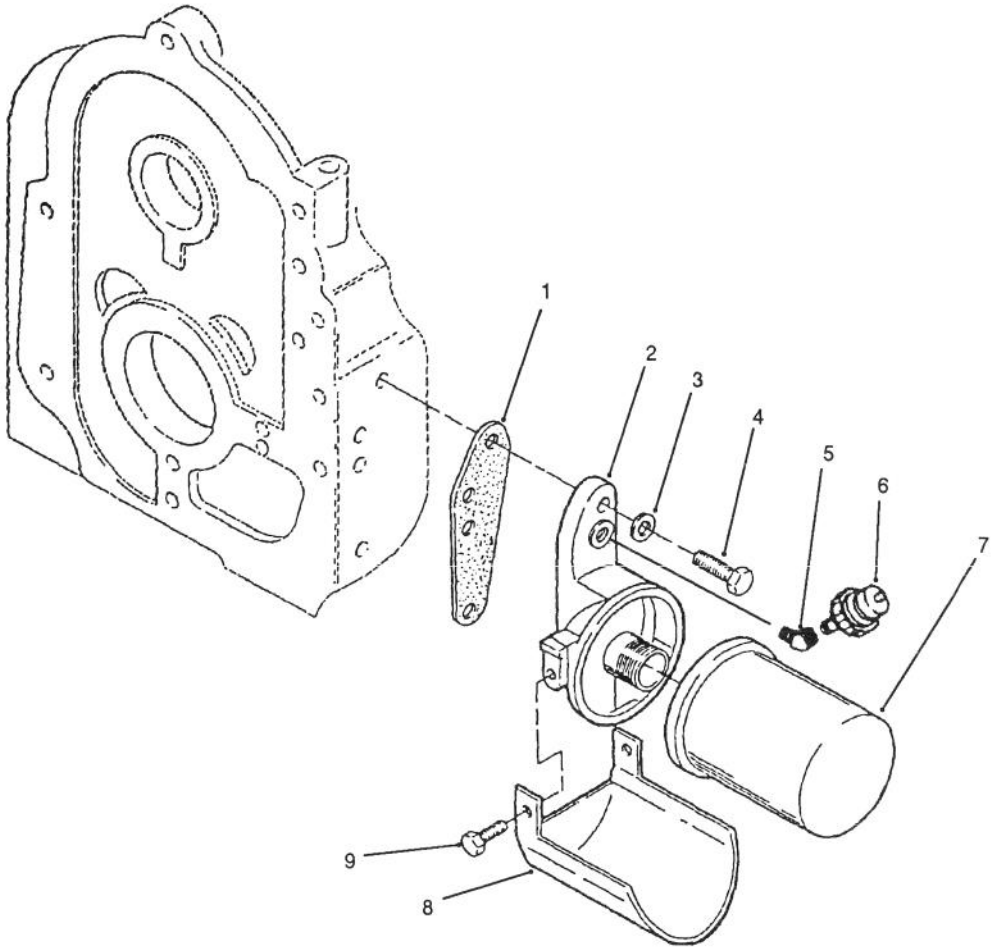


T-1261

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

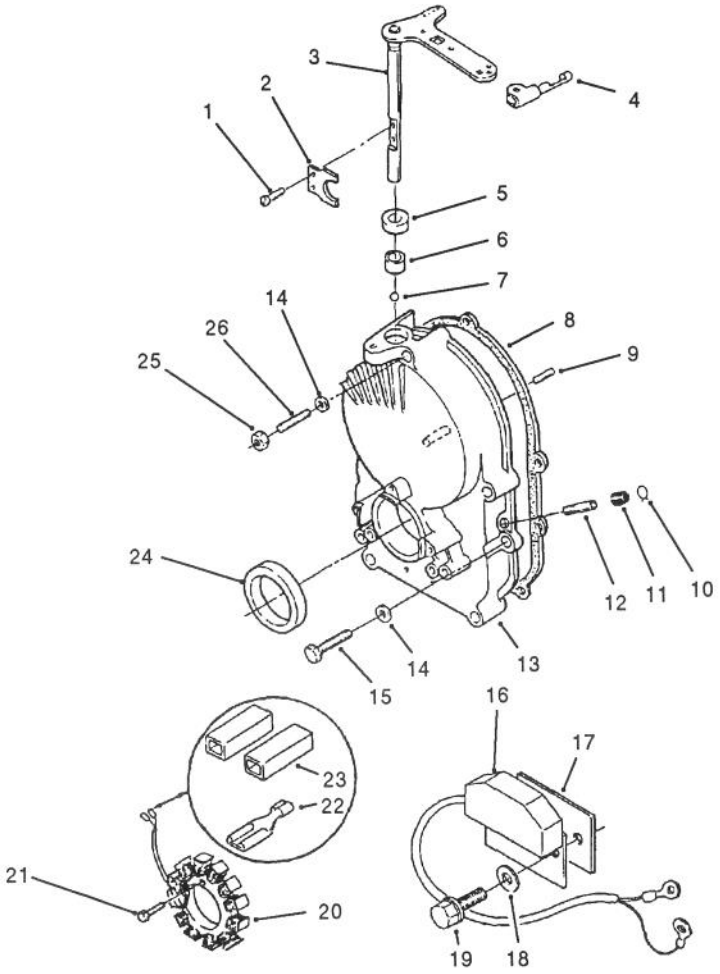


T-1262

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

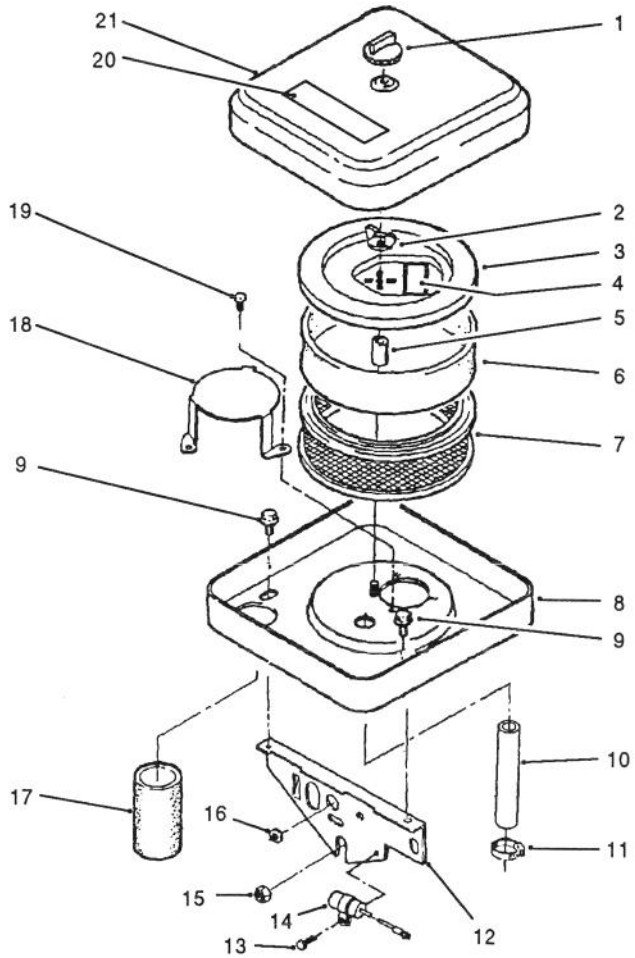


T-1263

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

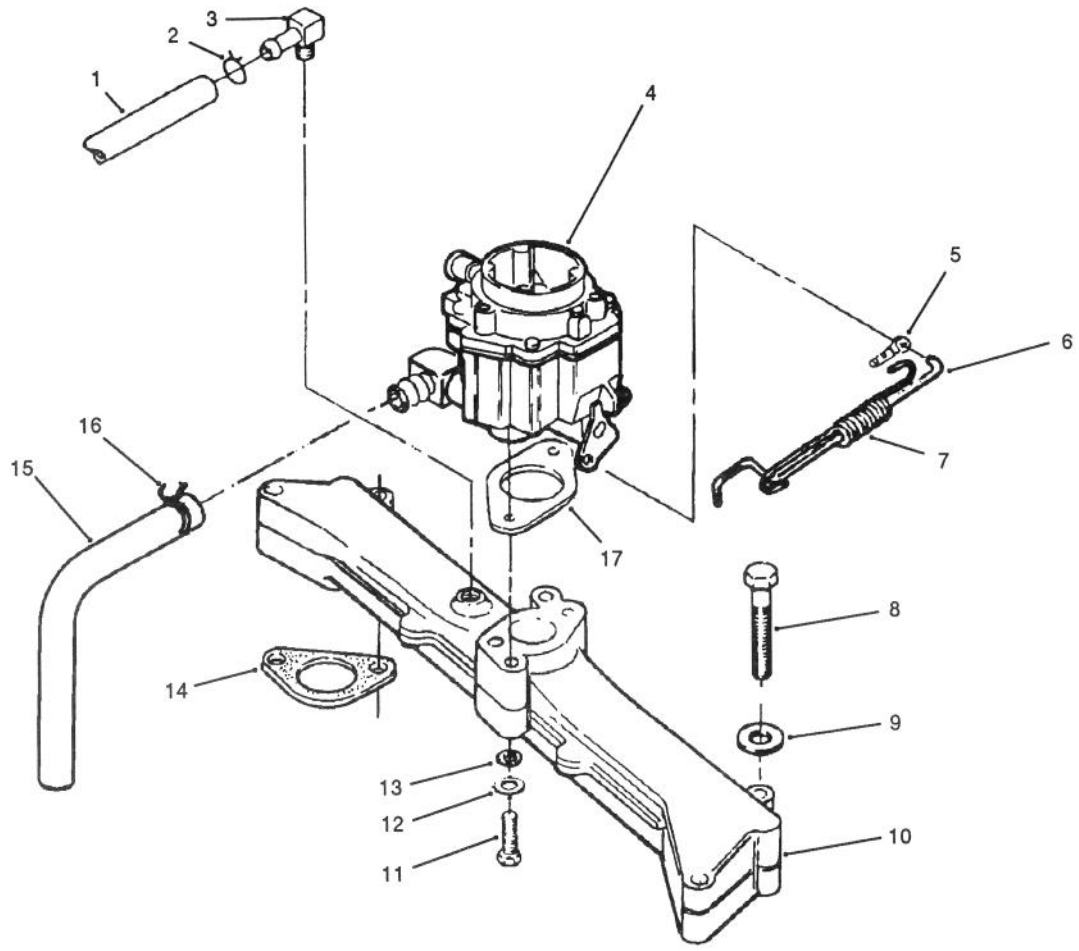


T-1264

ENGINE AIR CLEANER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
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

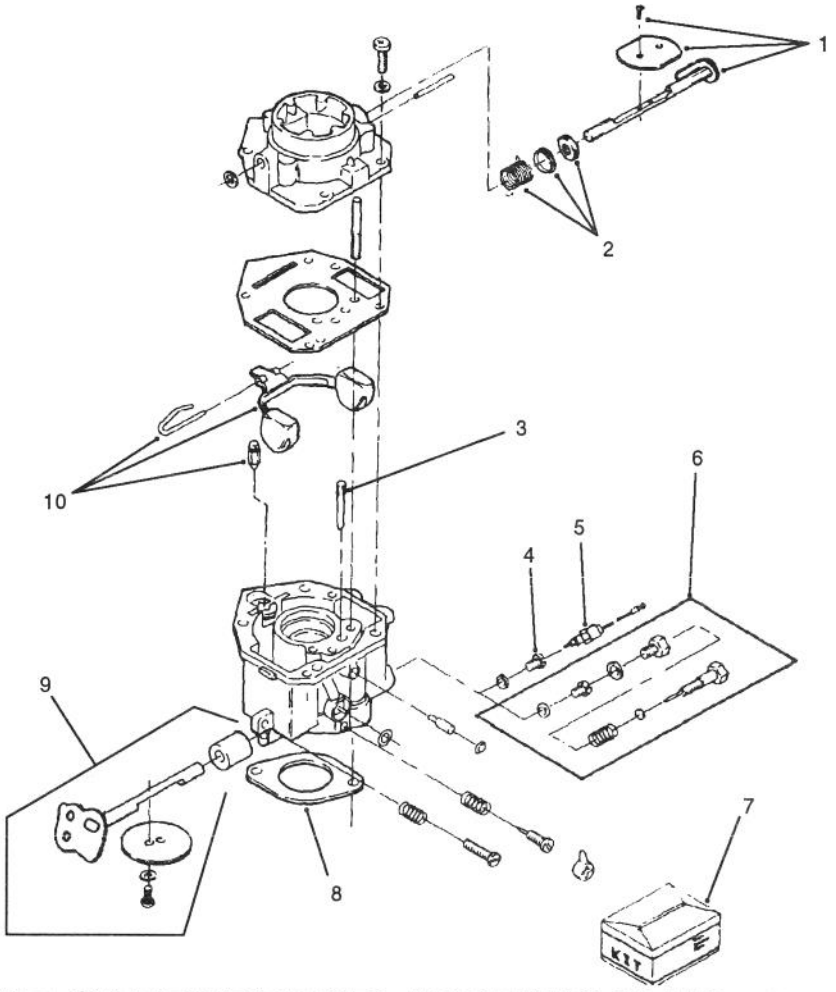


T-1265

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



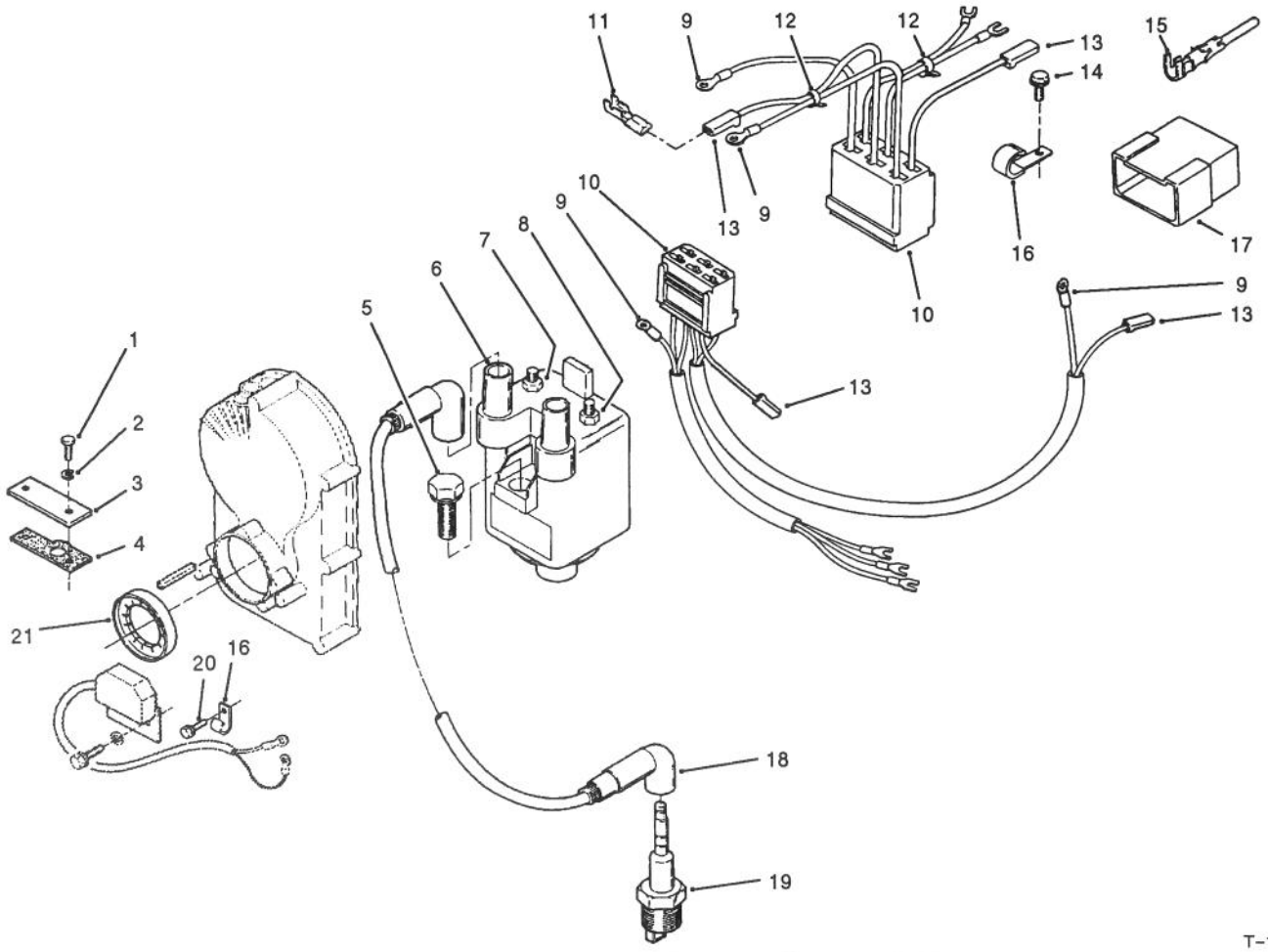
T-1266

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



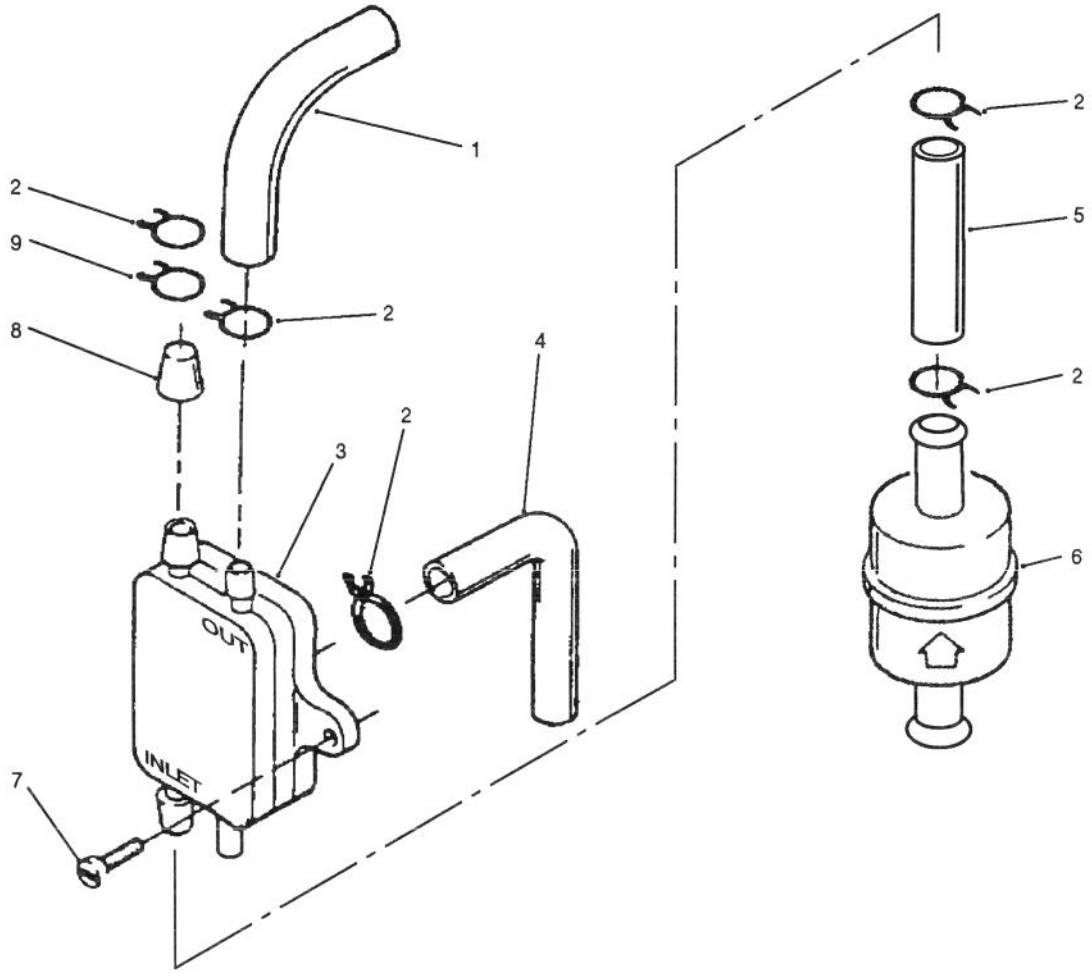
T-1267

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

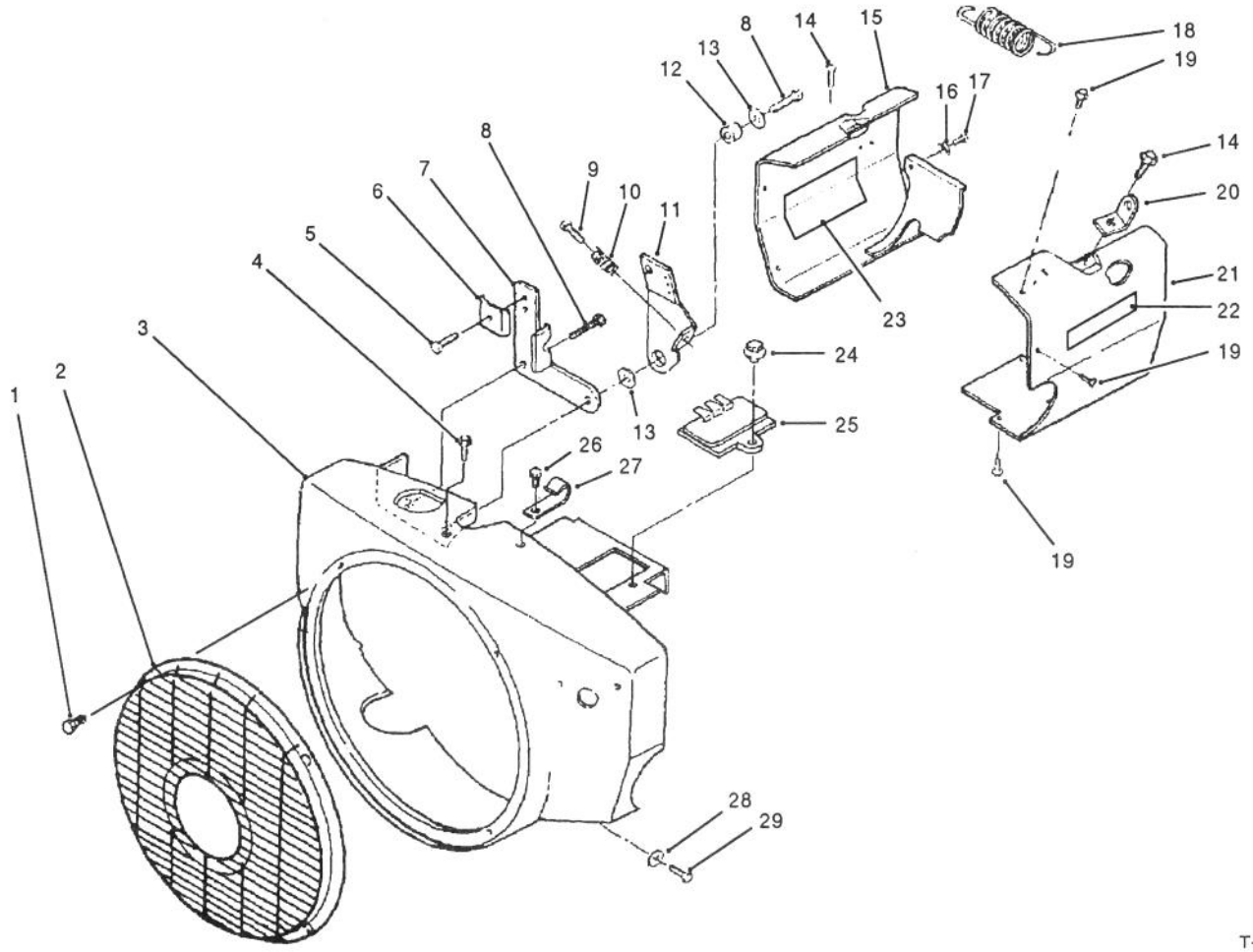


T-1268

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

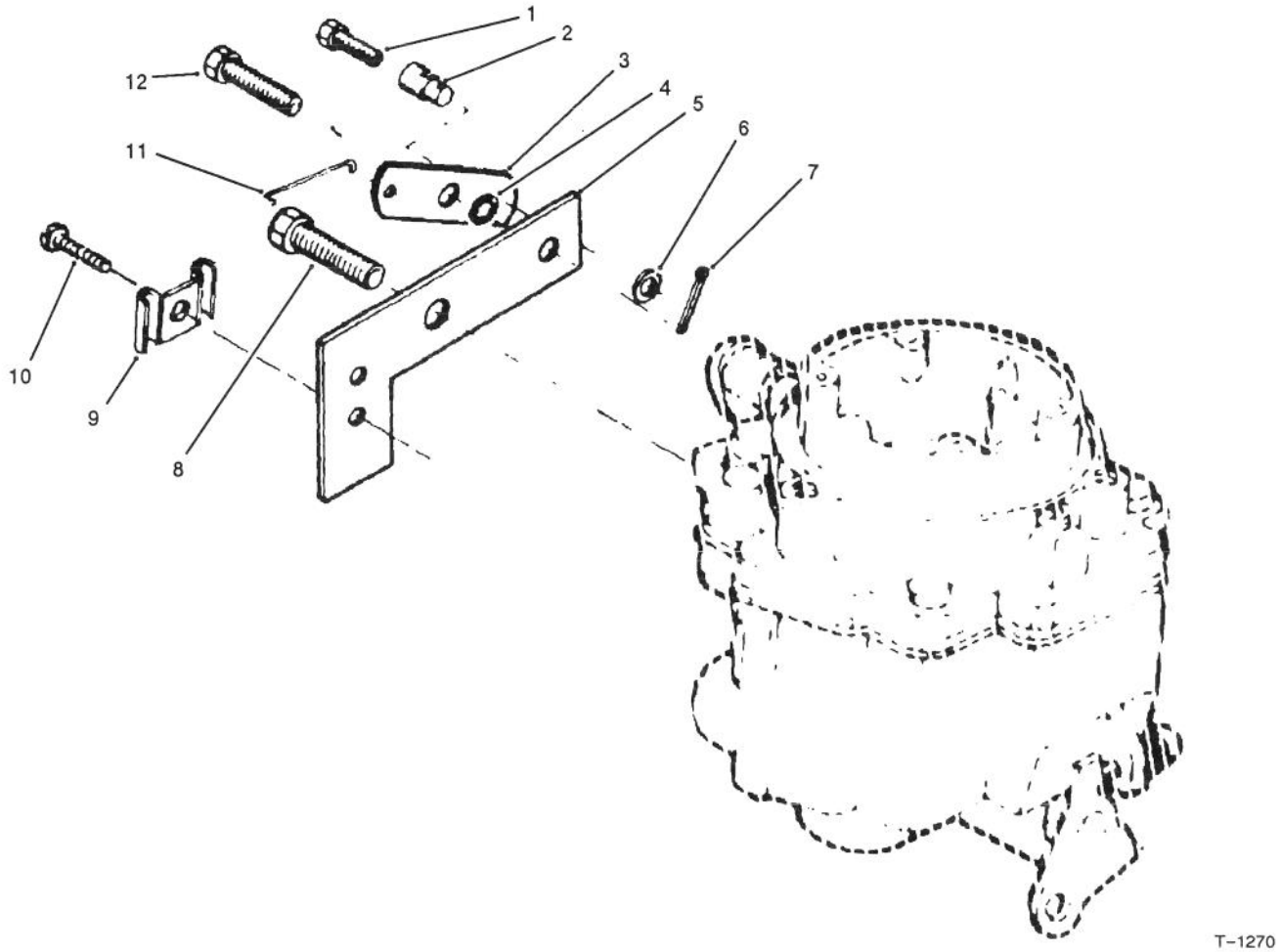


T-1269

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

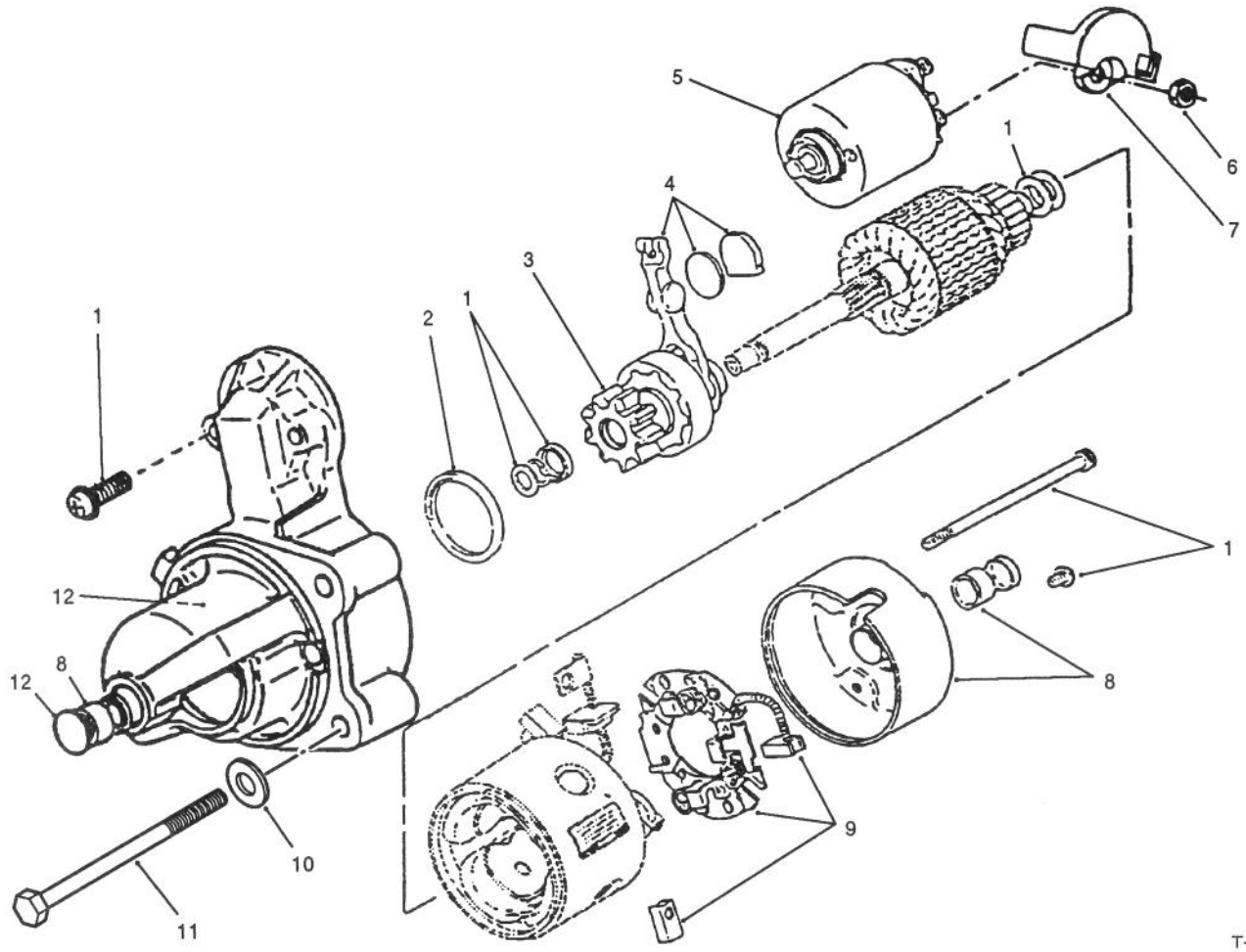


ENGINE CHOKE CONTROL ASSEMBLY

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

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
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

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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MAINTENANCE RECORD

Date								

Compliance with Radio Interference Regulations Certified.
Certifie Conforme au Reglement sur le Brouillage Radioelectrique.

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LTS-103116