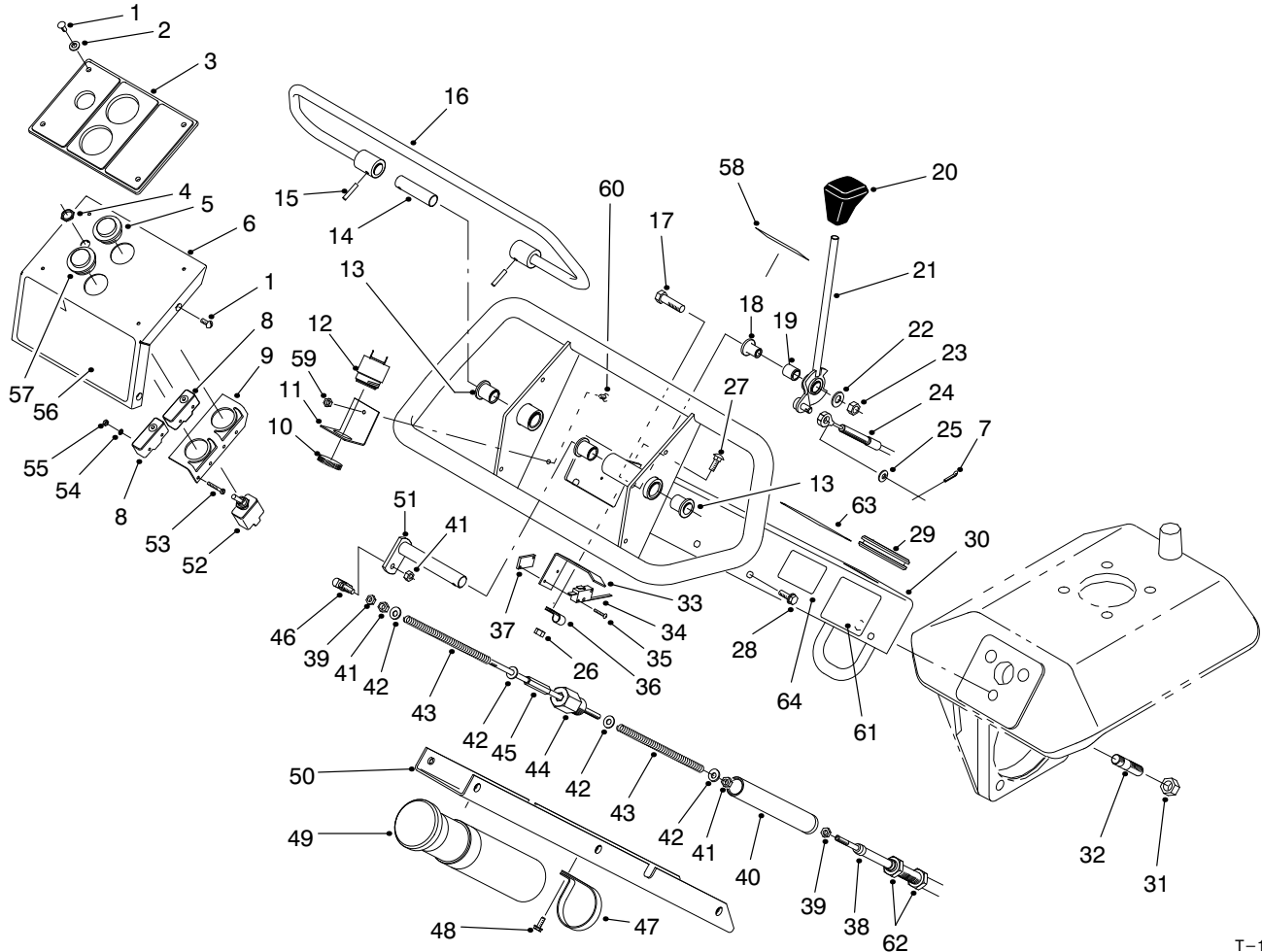


TORO®

MODEL NO. 09801-80001 & UP

PARTS CATALOG

HYDROJECT™ 3000 AERATOR

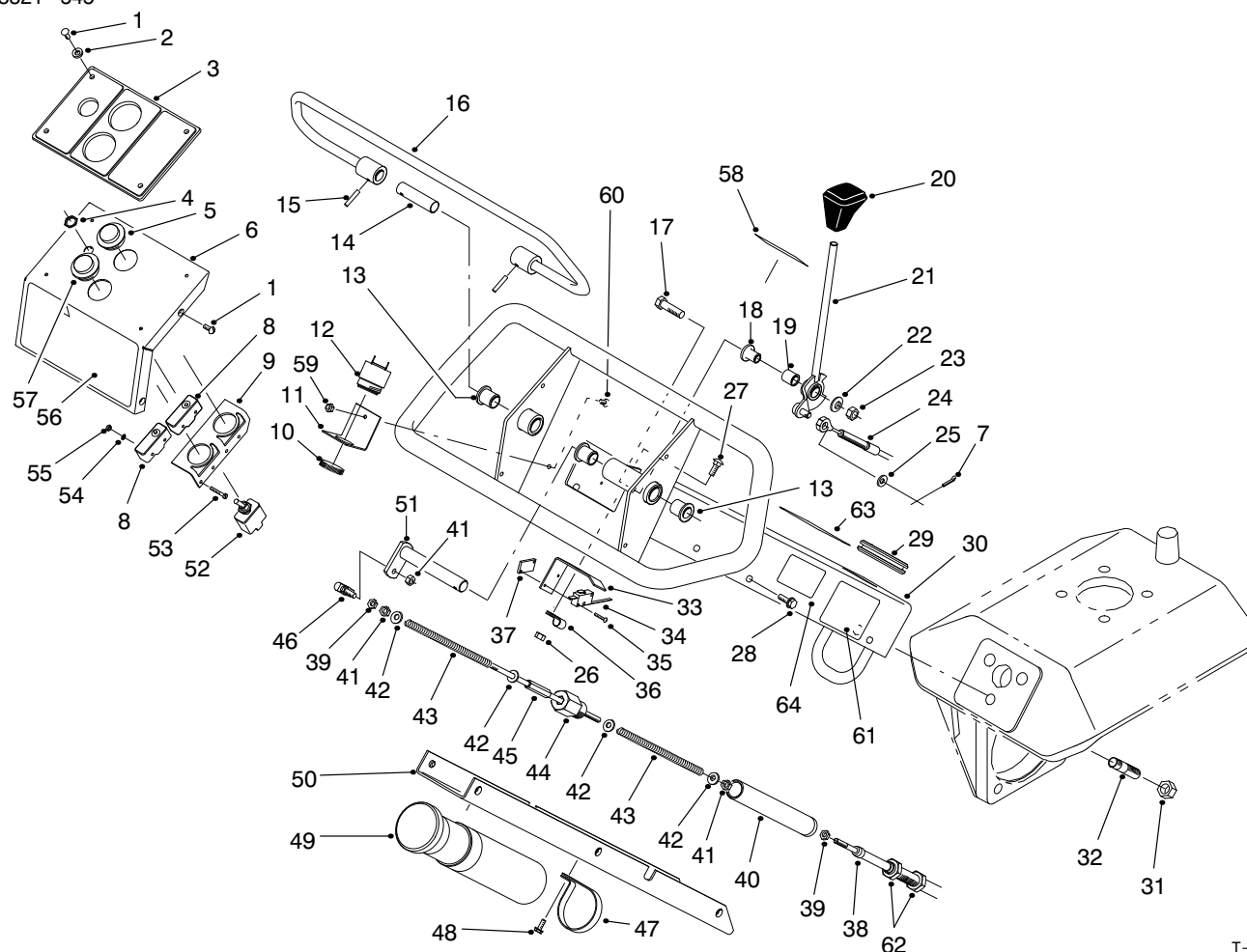


T-1189-1

HANDLE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	32104-60	Screw - HWH	8
1	3269-32	Rivet - Pop (Japan)	4
2	3256-14	Washer - Flat	4
3	80-9240	Panel - Control (English)	1
3	93-9368	Panel - Control (Europe)	1
3	83-6090	Panel - Control (Japan)	1
4	218-498	Nut - Locking	1
5	80-9290	Button - Switch (Green)	1
6	14-5199	Cover - Control (Incl. Ref. #56)	1
7	3272-10	Pin - Cotter	1
8	80-9280	Asm-Switch	2
9	80-9270	Bracket - Switch	1
10		Retainer - Alarm	1
11	80-7790	Bracket - Alarm	1
12	80-9330	Asm-Audio Alarm (Incl. Ref. #10)	1

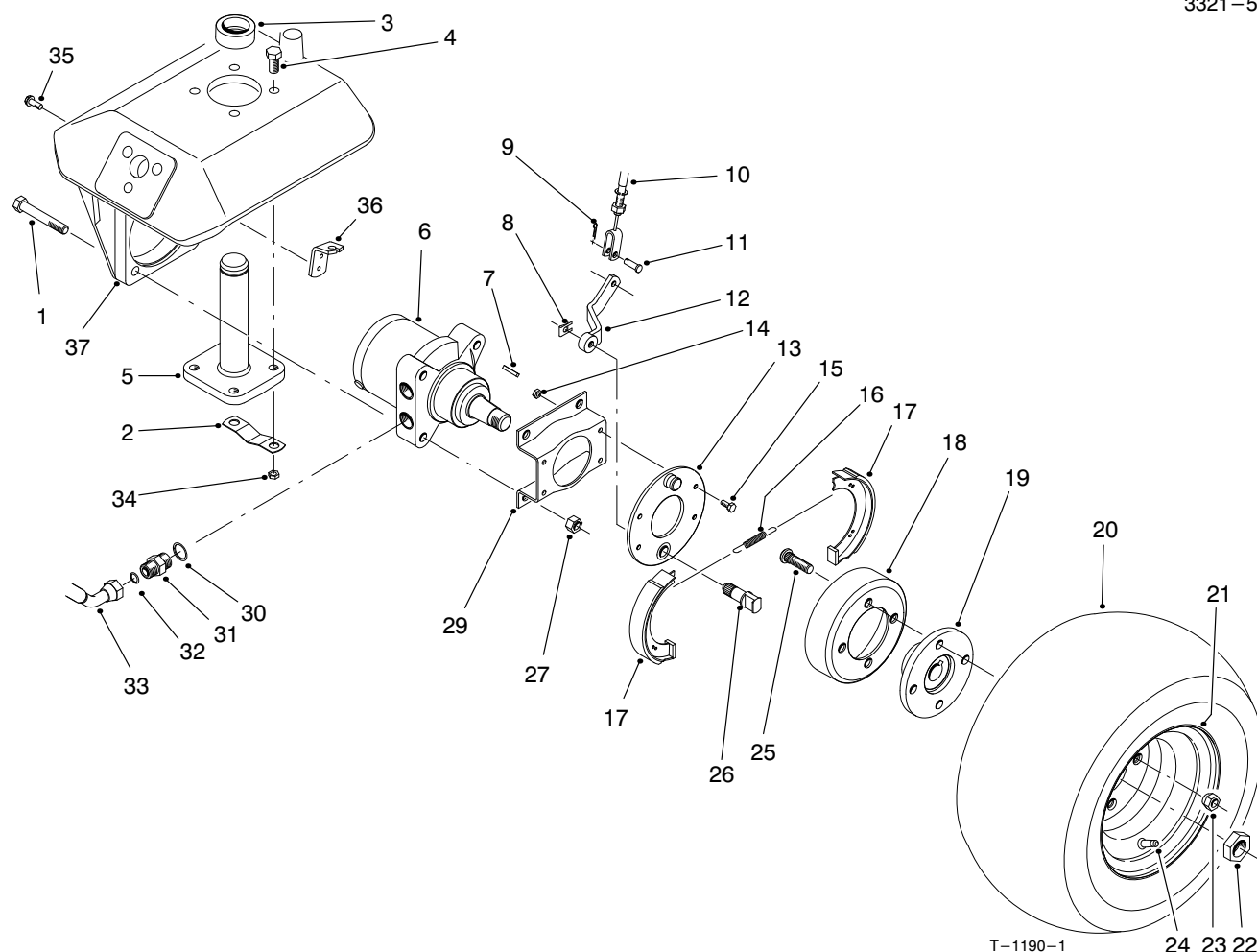
Ref. No.	Part No.	Description	No. Used
13	256-90	Bushing - Sleeve	3
14	80-7190	Shaft - Pivot	1
15	32121-79	Pin - Roll	2
16	80-7110	Handle - Traction Control	1
17	323-29	Screw - HH	1
18	80-7200	Spacer - Brake	1
19	256-206	Bushing - Sleeve	1
20	65-8970	Knob	1
21	86-8420	Lever - Brake	1
22	3256-24	Washer - Flat	1
23	3296-59	Nut - Lock	1
24	80-9740	Cable - Brake	1
25	3256-23	Washer - Flat	1
26	3296-42	Nut - Lock	1
27	3229-1	Bolt - Carriage	1
28	32104-95	Screw - HWH	6
29	240-12	Grommet	1



T-1189-1

HANDLE ASSEMBLY (Continued)

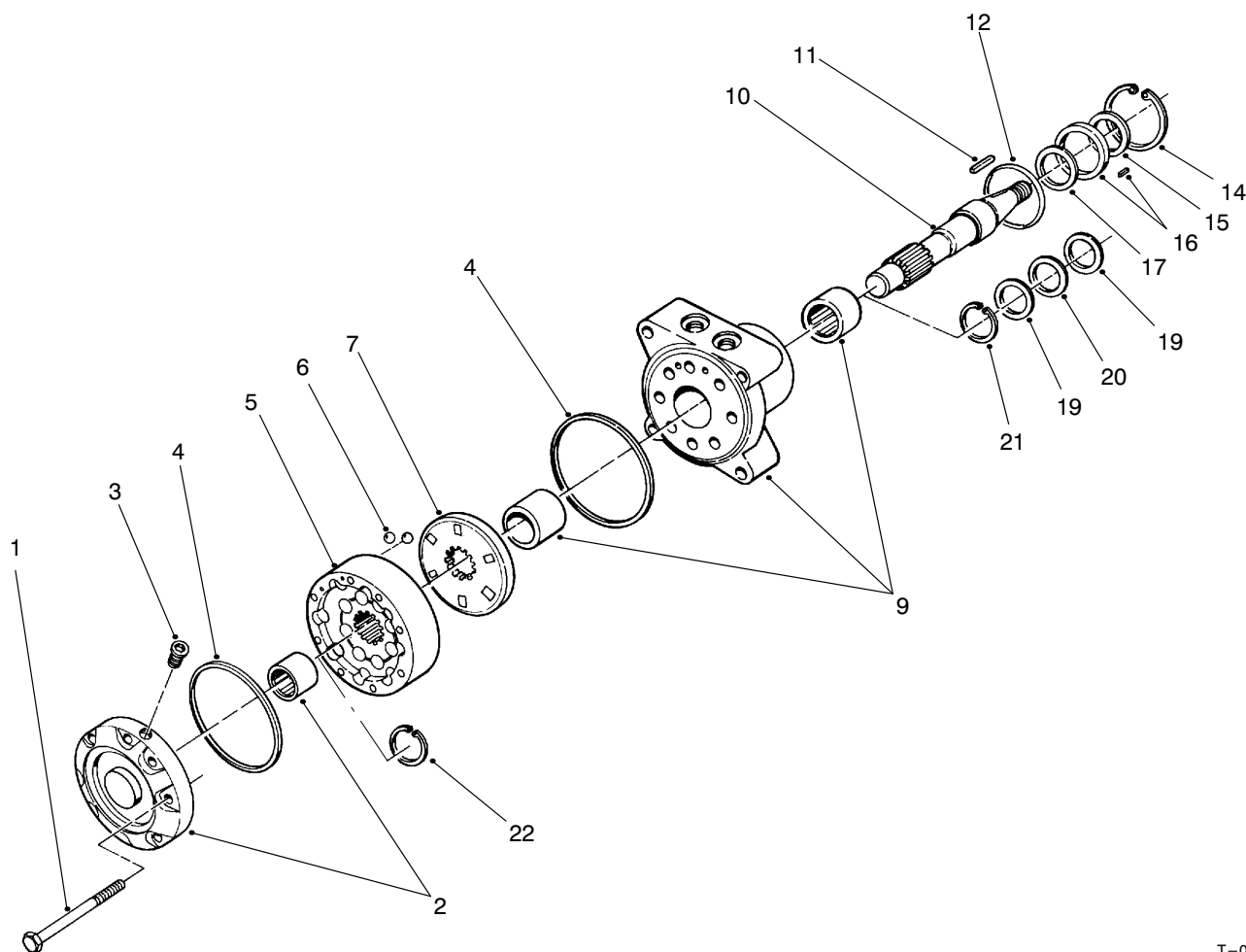
Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
30	86-8510	Asm-Handle (Incl. Ref. #13, 32, 58 & 61)	1	53	3250-35	Screw	4
31	3296-28	Nut - Lock	3	54	3254-9	Washer - I.T.L.W.	4
32	80-8680	Stud	3	55	3217-16	Nut - Hex.	4
33	80-6900	Bracket - Switch	1	56	80-8020	Decal - Instruction (English)	1
34	40-8200	Switch - Micro	1	56	93-9369	Decal - Warning (Europe)	1
35	3290-313	Screw - PH	2	56	83-6060	Decal - Instruction (Japan)	1
36	2412-94	Clamp - R	1	57	80-9300	Button - Push (Red)	1
37	3290-354	Plate - Nut	1	58	80-8070	Decal - Parking Brake (English)	1
38	80-7220	Asm-Stroke Control Cable (Incl. Ref. #62)	1	58	93-9363	Decal - Parking Brake (Europe)	1
39	3220-1	Nut - Jam	2	58	83-6120	Decal - Parking Brake (Japan)	1
40	80-7080	Housing	1	59	3296-2	Nut - Lock	1
41	3296-3	Nut - Lock	3	60	32105-2	Screw - HFH	1
42	3256-2	Washer - Flat	4	61	72-4080	Decal - Danger (English)	1
43	80-7150	Spring - Compression	2	61	93-9371	Decal - Danger (Europe)	1
44	80-7230	Hub - Override	1	61	83-6010	Decal - Danger (Japan)	1
45	80-7060	Shaft - Override	1	62	3220-6	Nut - Jam	2
46	2411-34	Joint - Ball	1	63	93-9429	Decal - Warning	1
47	2412-120	Clamp - R	2	63	93-9388	Decal - Warning, Tiller Arm (Europe)	1
48	32104-76	Screw - Hex. Slotted Hd.	2	64	93-7252	Decal - C.E. (Europe)	1
49	74-0720	Tube - Manual	1				
50	86-8450	Cover - Lower	1				
51	80-7160	Arm - Traction	1				
52	71-4170	Switch - Toggle (Incl. Ref. #4)	1				



FRONT WHEEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	325-14	Screw - HH	4	22	26-3790	Nut - Spindle	1
2	80-9730	Guide - Cable	1	23	242-50	Nut - Lug	4
3	86-8600	Spacer - Steering	1	24	232-27	Stem - Valve	1
4	325-6	Screw - HH	4	25	10-6830	Stud - Drive	4
5	80-9790	Shaft - Steering Pivot	1	26	70-9860	Pivot - Brake	1
6	66-5293	Motor - Hydraulic (Incl. Ref. #7)	1	27	3296-23	Nut - Lock	4
7	65-4640	Key - Square	1	29	84-2000	Bracket - Brake Plate	1
8	70-9850	Clip - Retaining	1	30	237-80	O-Ring	2
9	3272-10	Pin - Cotter	1	31	340-6	Fitting - Hydraulic, Straight (Incl. Ref. #30 & 32)	2
10	80-9740	Cable - Brake	1	32	237-30	O-Ring	2
11	283-62	Pin - Clevis	1	33	80-7370	Hose - Hydraulic	2
12	80-7400	Lever - Brake	1	34	3296-45	Nut - Lock	2
13	70-9870	Plate - Brake	1	35	32144-22	Screw - HWH	2
14	3296-42	Nut - Lock	4	36	86-8290	Support - Cable	1
15	321-4	Screw - HH	4	37	86-8270	Arm - Steering	1
16	70-9880	Spring - Brake	2	*	71-1500	Asm-Brake (Incl. Ref. #8, 13, 16, 17 & 26)	1
17	70-9840	Shoe - Brake	2				
18	10-6850	Drum - Brake	1				
19	10-6870	Hub - Wheel	1				
20	28-3680	Tire	1				
21	217-60	Rim - Wheel	1				

* Not Illustrated



T-0274-2

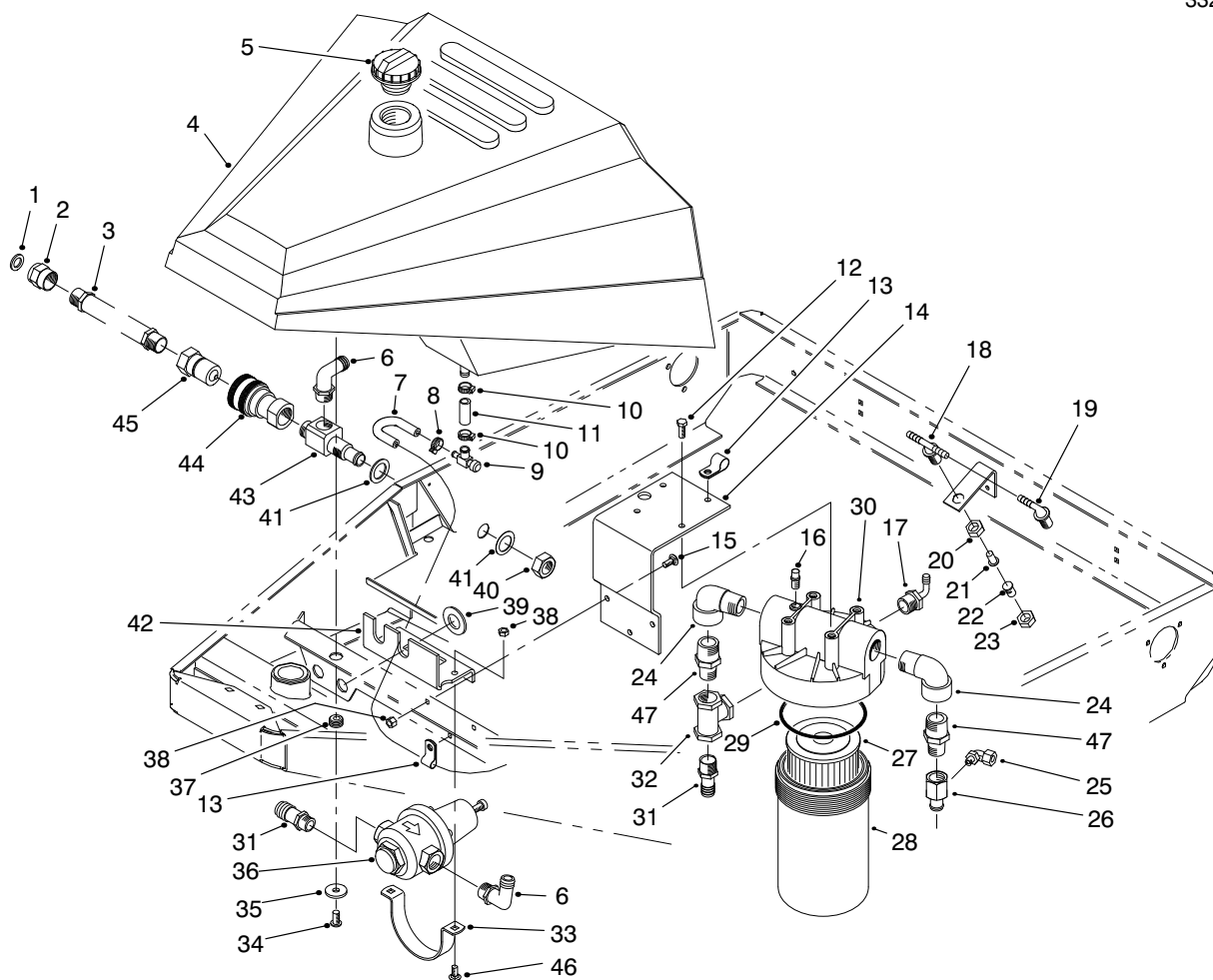
HYDRAULIC DRIVE MOTOR ASSEMBLY NO. 66-5293

Ref. No.	Part No.	Description	No. Used
1	80-5480	Screw - HH	8
2	80-5470	Asm - Cover & Bearing	1
3	65-4560	Plug - Hex. Hollow	1
4	65-4570	Seal - Square Ring	2
5	80-5490	Asm - IGR	1
6	65-4550	Valve - Check Ball	2
7	80-9840	Plate - Valve	1
9	80-5460	Asm - Body & Bearing	1
10	80-5500	Shaft	1
11	3257-15	Key - Woodruff	1
12	65-4620	O-Ring	1
14	65-4500	Seal - Snap Ring	1

Ref. No.	Part No.	Description	No. Used
†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
22	98-3449	Ring - Snap	1
*	76-2350	Asm - Seal & Retainer (Incl. Ref. #15-17)	1
*	76-2360	Kit - Body Seal (Incl. Ref. #4, 12 & 15-17)	1

* Not Illustrated

† Not available from Toro as a replacement part.

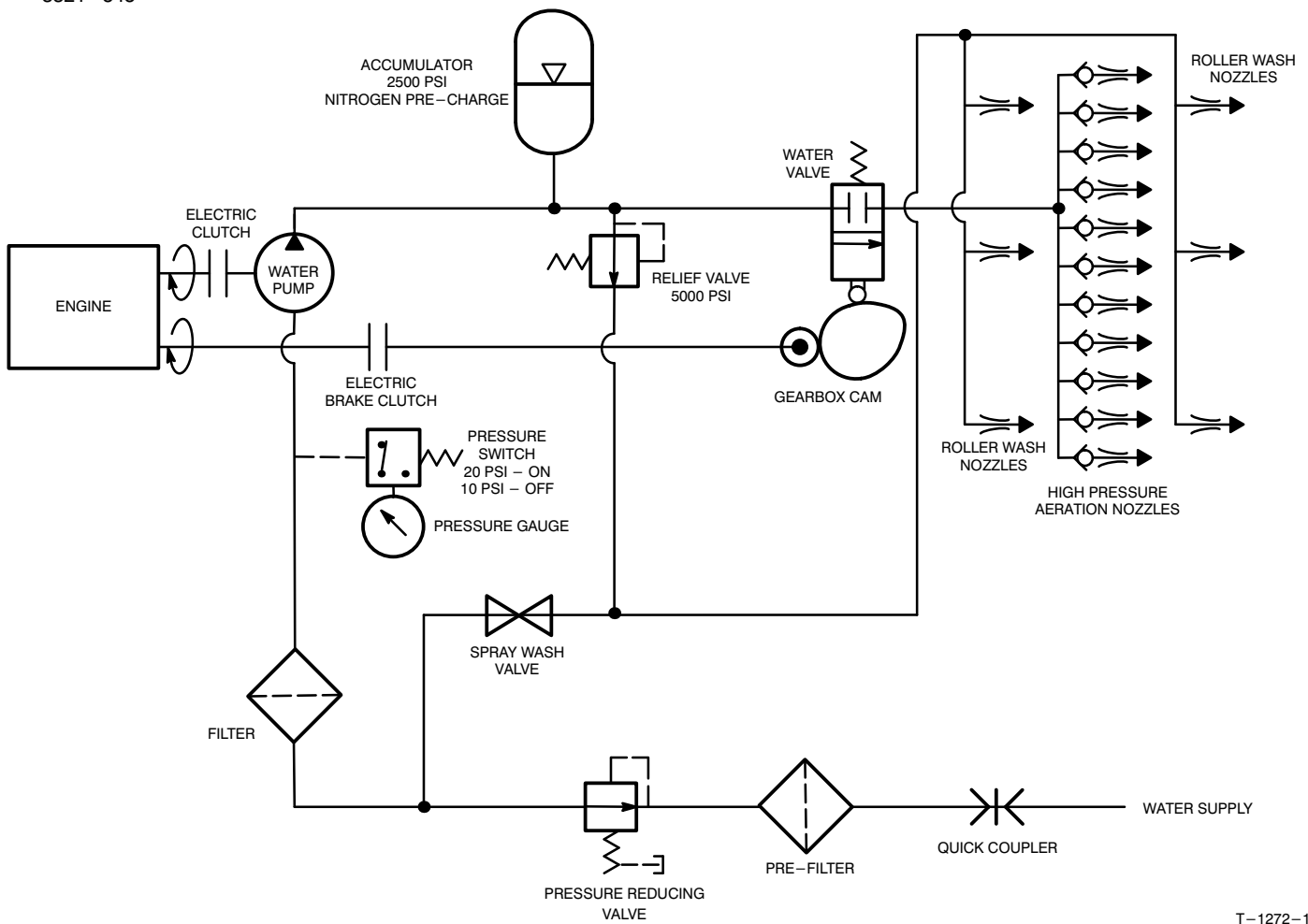


T-1196-4

FUEL TANK & WATER INLET ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	3290-494	Washer - Rubber	1	25	354-101	Fitting - 90° Elbow	1
2	354-109	Fitting - Adaptor	1	26	86-8640	Fitting - Adapter	1
3	80-6740	Hose - Water	1	27	86-8630	Element - Water Filter	1
4	14-4189	Tank - Fuel	1	28	80-8930	Sump - Water Filter	1
5	93-3101	Cap - Fuel	1	29	92-9543	O-Ring	1
5	93-7170	Cap - Fuel (Europe)	1	30	80-9600	Head - Water Filter	1
6	354-100	Fitting - 90° Elbow	2	31	354-98	Fitting - Straight	2
7	56-2241	Hose - Fuel	1	32	354-133	Fitting - Tee	1
8	2412-108	Clamp - Hose	1	33	92-9538	Strap - Regulator	1
9	56-2520	Valve - Fuel Shut-Off	1	34	323-5	Screw - HH	4
10	2412-36	Clamp - Hose	2	35	63-8410	Washer	4
11	56-2230	Hose - Fuel	1	36	86-9170	Asm - Regulator Valve	1
12	32144-41	Screw - HH	4	37	240-11	Grommet	4
13	2412-41	Clamp - R	2	38	3296-29	Nut - Lock	5
14	80-8610	Bracket - Filter	1	39	3256-29	Washer - Flat	2
15	3230-1	Bolt - Carriage	3	40	3296-49	Nut - Lock	2
16	80-8940	Valve - Bleed	1	41	3256-42	Washer - Flat	2
17	354-106	Fitting - 90° Elbow	1	42	92-9537	Bracket - Regulator	1
18	355-1	Fitting - Tee (Incl. Ref. #20)	4	43	86-9160	Adapter - Bulkhead	1
19	355-2	Fitting - 90° Elbow (Incl. Ref. #20)	2	44	354-88	Coupler - Female	1
20		Nut - Hex.	6	45	354-89	Coupler - Male	1
21	355-5	Strainer	6	46	3230-2	Screw - Carriage	2
22	355-6	Nozzle	6	47	95-5676	Fitting - Reducer	2
23	355-4	Cap	2	*	80-8600	Asm - Water Filter (Incl. Ref. #28-30 & 16)	1
24	95-5675	Fitting - 90° Elbow	2	*	80-9510	Wrench - Water Filter	1
				*	86-9180	Regulator Repair Kit	1

* Not Illustrated

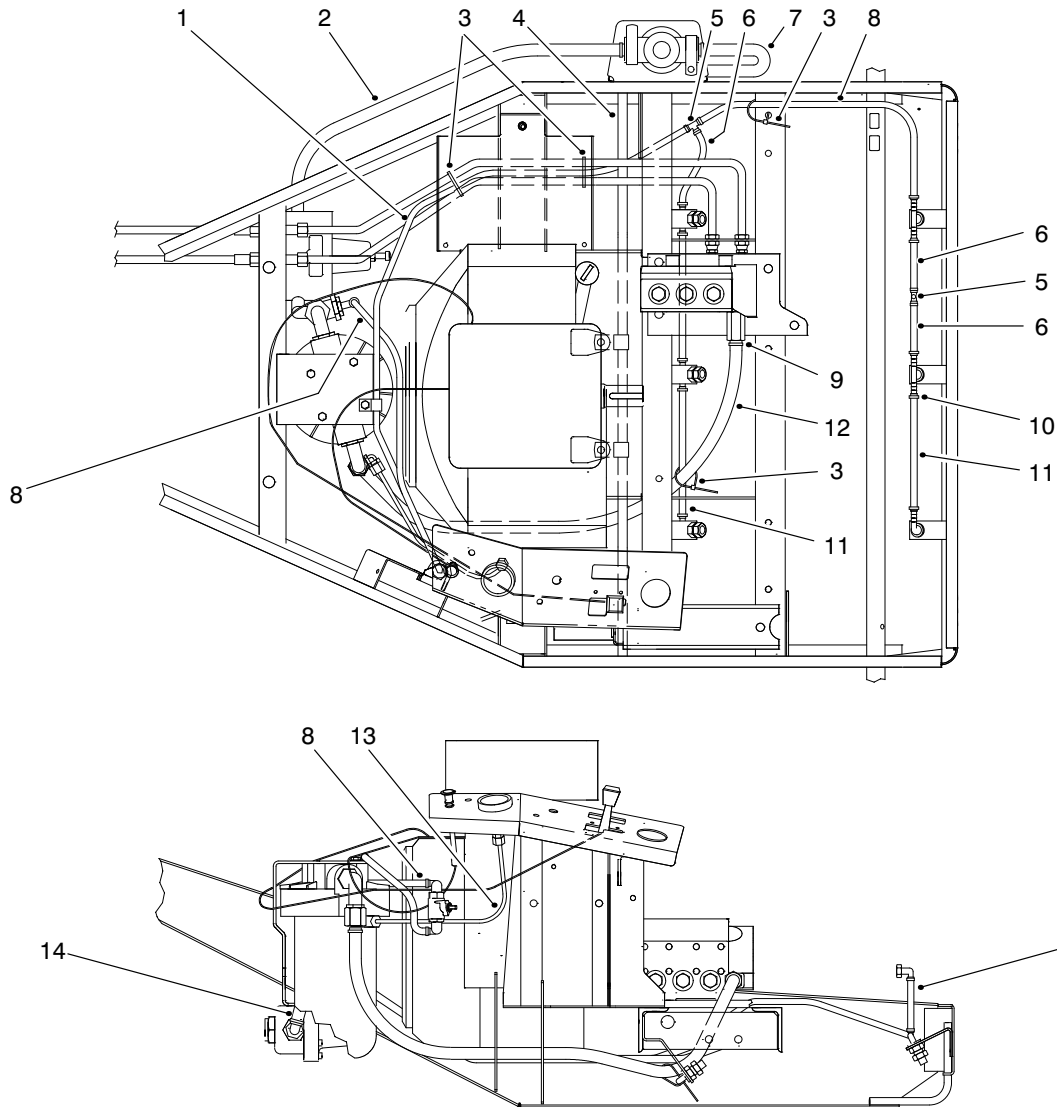


T-1272-1

WATER SYSTEM SCHEMATIC

Ref. No.	Part No.	Description	No. Used

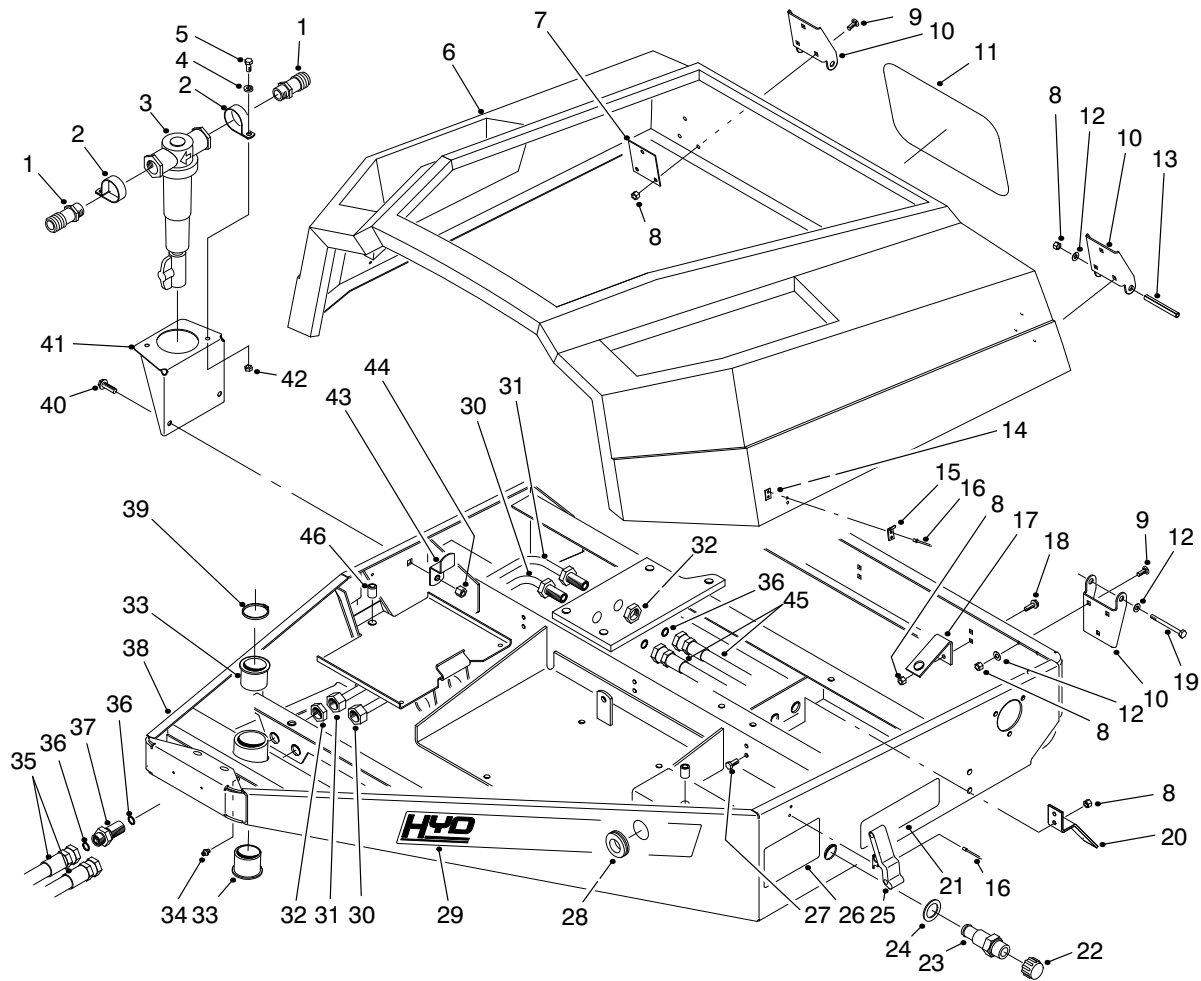
Ref. No.	Part No.	Description	No. Used



T-1275-1

WATER SYSTEM HOSE ROUTING DIAGRAM

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	80-7344	Hose - Water	1	8	80-7346	Hose - Water	2
2	80-6510	Hose - Water	1	9	2412-129	Clamp - Hose 3/4"	8
3	3290-378	Tie - Cable	4	10	2412-108	Clamp - Hose 3/8"	20
4	80-6516	Hose - Water	1	11	80-7340	Hose - Water	3
5	354-107	Fitting - Tee	2	12	80-6517	Hose - Water	1
6	80-7341	Hose - Water	4	13	80-6520	Hose - Water	1
7	80-6515	Hose - Water	1	14	80-6514	Hose - Water	1

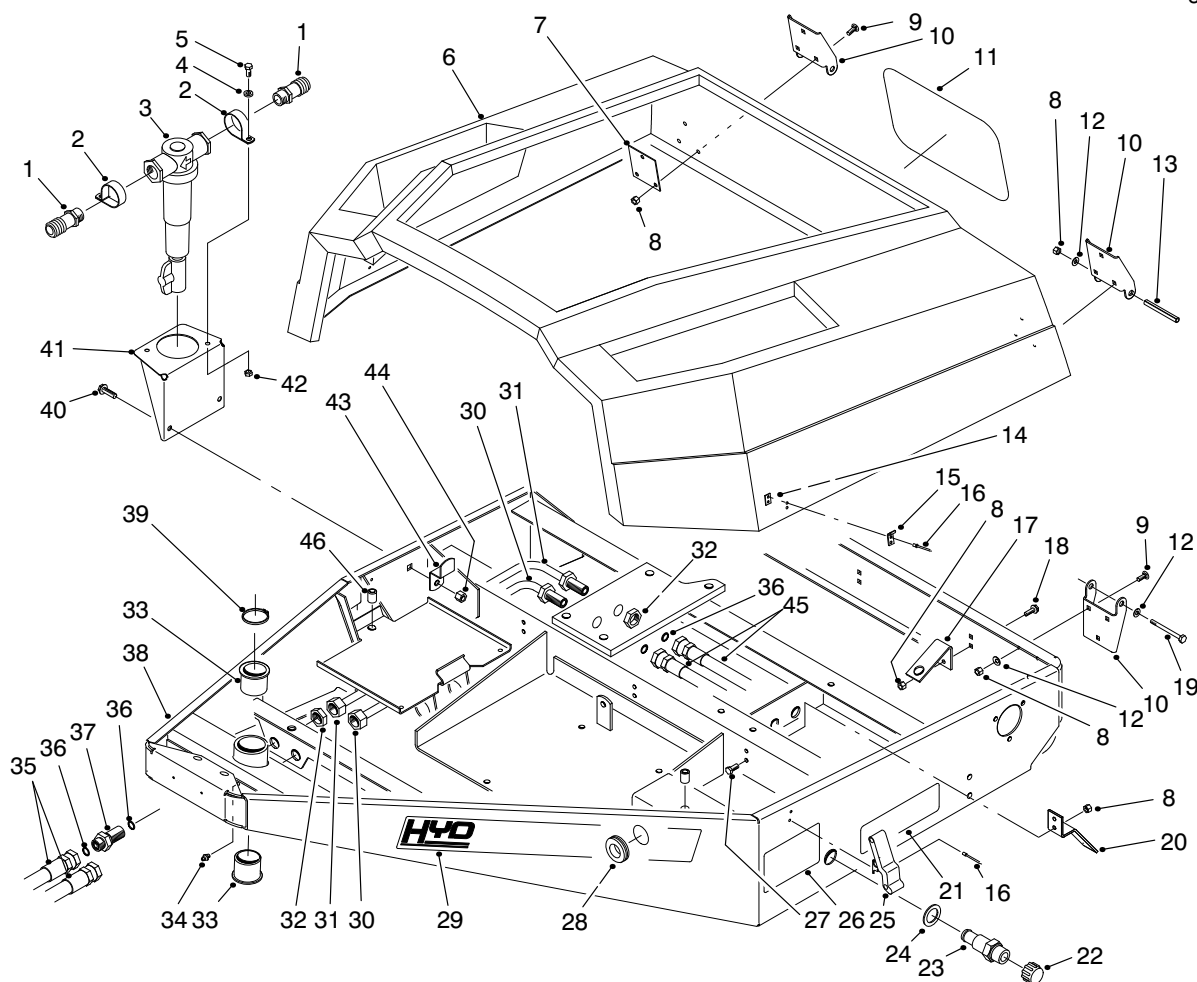


T-1197-1

FRAME & COVER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	354-98	Fitting - Adapter	2
2	2412-147	Clamp - R	2
3	86-9100	Asm-Pre-Filter	1
4	3256-23	Washer - Flat	2
5	322-3	Screw- HH	2
6	14-4179	Hood	1
7	80-9090	Plate - Back-Up	2
8	3296-42	Nut - Lock	26
9	3229-1	Bolt - Carriage	12
10	80-9080	Plate - Hinge	4
11	67-7310	Decal - TORO	1
12	3256-22	Washer - Flat	10
13	80-9310	Spacer - Hinge	2
14	80-9260	Plate - Back-Up	2
15		Keeper - Latch	2
16	3269-25	Rivet - Pop	8
17	80-9050	Bracket - Nozzle Rear	3
18	3234-4	Screw - HWH	6
19	321-28	Screw - HH	2
20	80-9060	Bracket - Nozzle Front	3
21	80-8090	Decal - Warning (English)	3
21	93-9365	Decal - Warning (Europe)	1
21	83-6050	Decal - Warning (Japan)	3
22	354-113	Cap - Pipe	1
23	80-9500	Adapter - Bulkhead	1

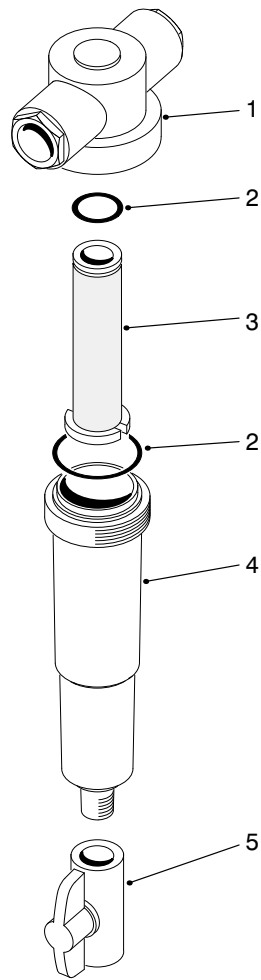
Ref. No.	Part No.	Description	No. Used
24	3256-24	Washer - Flat	2
25	80-6980	Asm-Latch (Incl. Ref. #15)	2
26	92-9542	Decal - Filter (English)	2
26	93-9372	Decal - Filter (Danish)	1
26	93-9373	Decal - Filter (Dutch)	1
26	93-9377	Decal - Filter (Finnish)	1
26	93-1656	Decal - Filter (French)	1
26	93-1654	Decal - Filter (German)	1
26	93-1563	Decal - Filter (Italian)	1
26	93-9379	Decal - Filter (Norwegian)	1
26	93-9380	Decal - Filter (Portuguese)	1
26	93-1655	Decal - Filter (Spanish)	1
26	93-1652	Decal - Filter (Swedish)	1
26	93-1651	Decal - Filter (Japan)	2
27	321-4	Screw - HH	6
28	240-3	Grommet	2
29	80-8050	Decal - Hydroject 3000	2
30	80-6640	Tube - Hydraulic (Incl. Ref. #36)	1
31	80-6630	Tube - Hydraulic (Incl. Ref. #36)	1
32	340-127	Nut - Bulkhead	4
33	256-245	Bushing - Flange	2
34	302-5	Fitting - Grease	1



T-1197-1

FRAME & COVER ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
35	80-7370	Hose - Hydraulic	2	40	3234-24	Screw - HFH	2
36	237-30	O-Ring	6	41	86-9090	Bracket - Filter	1
37	340-161	Fitting - Hydraulic Bulkhead (Incl. Ref. #36)	2	42	3296-29	Nut - Lock	2
38	86-8910	Asm-Frame (Incl. Ref. #21, 26, 29, 33, 34 & 46)	1	43	80-8580	Guard - Belt	1
39	32151-44	Ring - Retaining	1	44	3296-39	Nut - Lock	2
				45	80-7330	Hose - Hydraulic	2
				46	32148-9	Nut - Insert	3

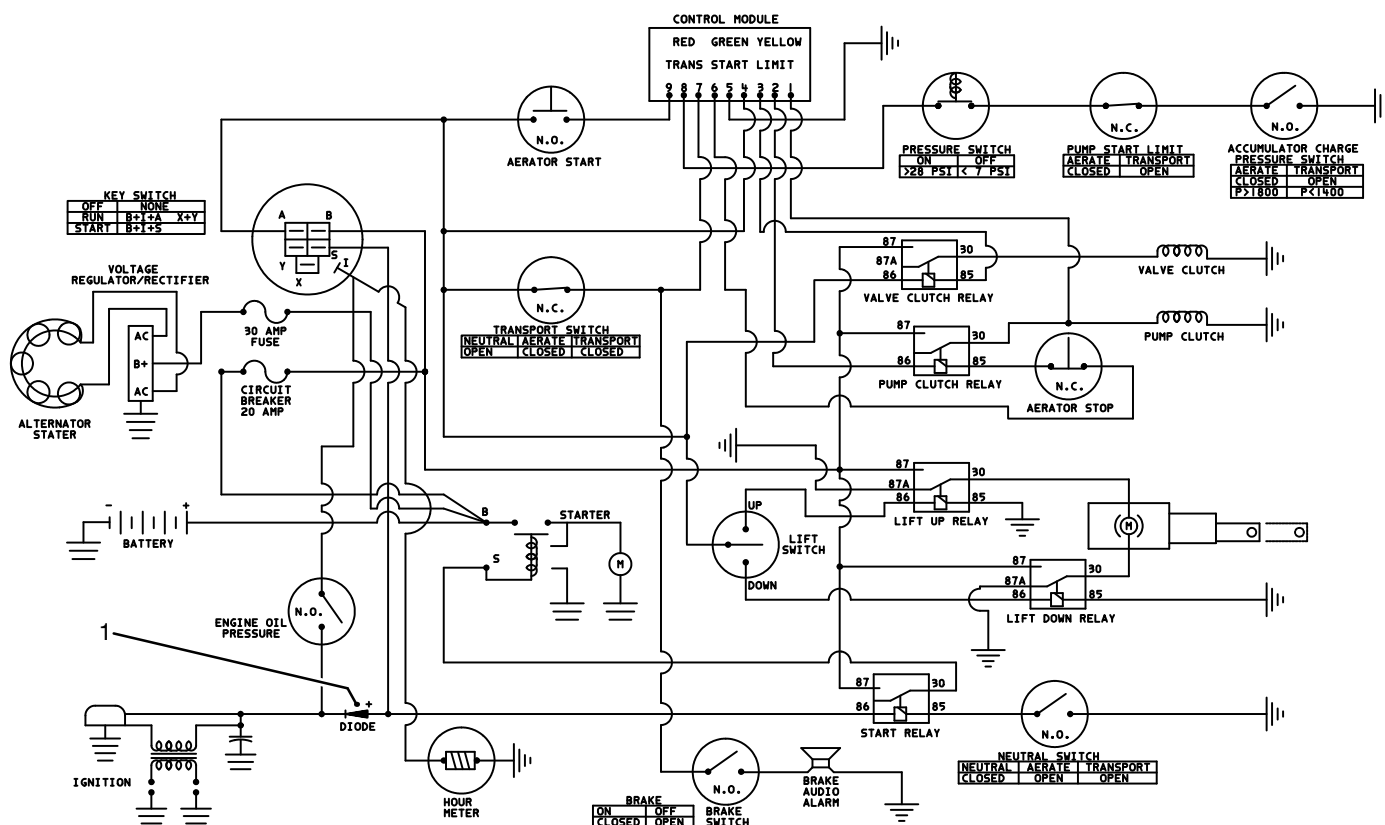


T-1916-1

PRE-FILTER ASSEMBLY NO. 86-9100

Ref. No.	Part No.	Description	No. Used
1	86-9110	Head	1
2	86-9150	Kit - O-Ring Seal	1
3	86-9140	Screen - 100 Mesh	1

Ref. No.	Part No.	Description	No. Used
4	86-9120	Trapper - Sediment	1
5	86-9130	Valve - Flush	1

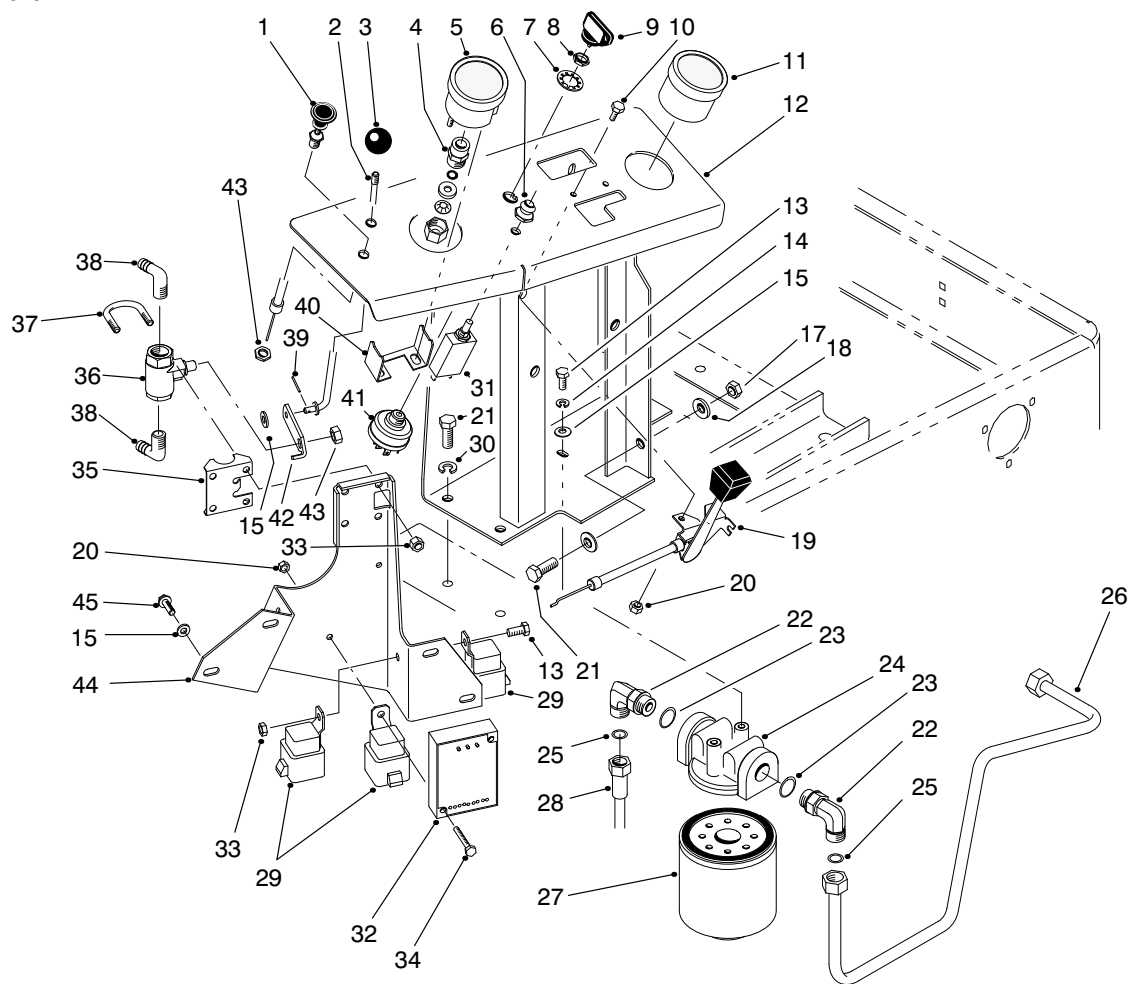


T-1237-1

ELECTRICAL SCHEMATIC

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	67-7130	Diode (Install Red Marking toward positive)	1	*	86-8930	Wire Harness – Control Panel	1
*	86-8940	Wire Harness – Main	1	*	3290-378	Tie – Cable	5
*	86-8920	Wire Harness – Tiller	1	*	3290-379	Tie – Cable	4

* Not Illustrated

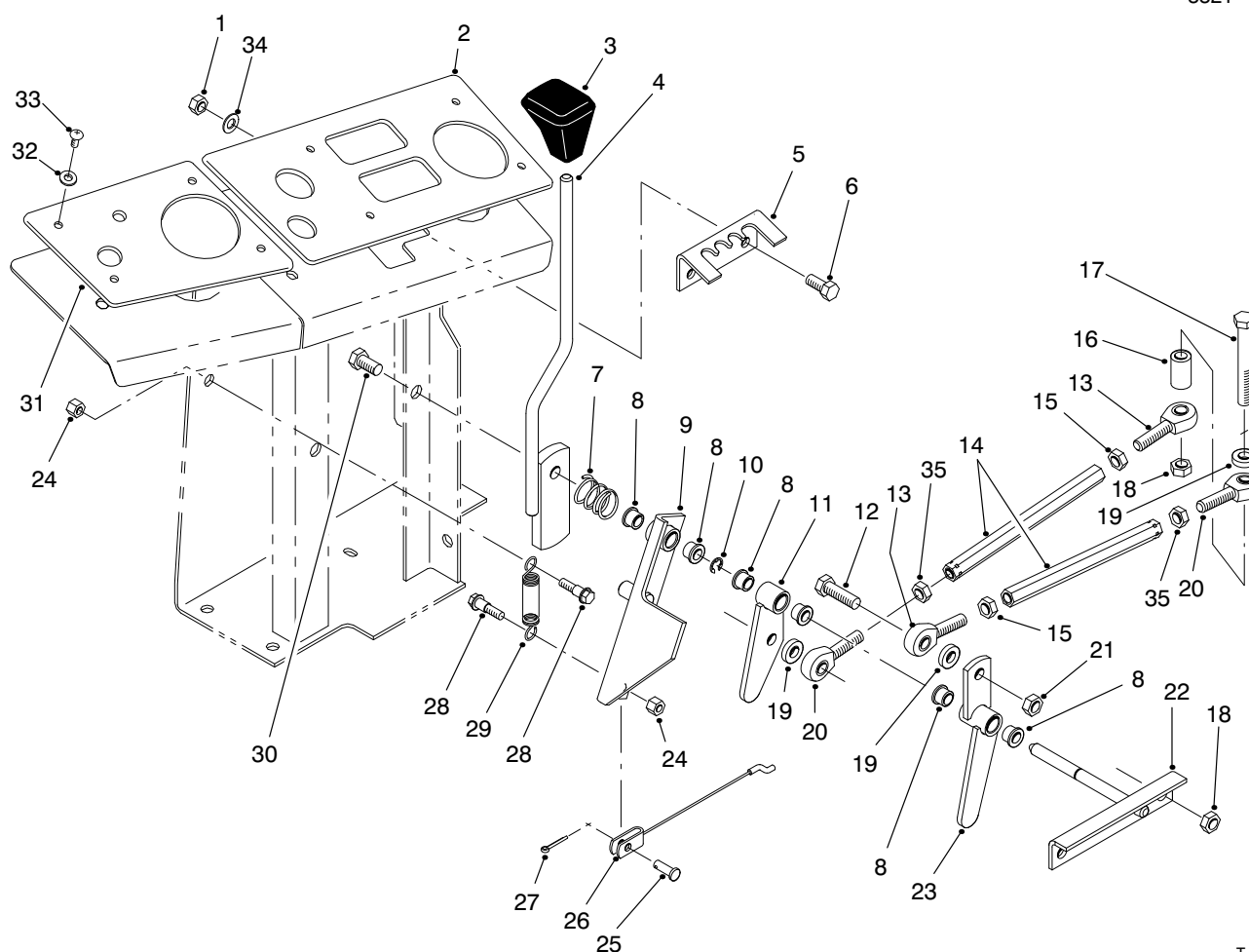


T-1203-1

CONTROL PANEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	80-7270	Asm-choke Control (Incl. Ref. #43)	1
2	80-8280	Rod - Control	1
3	233-17	Knob	1
4	354-102	Asm-Hydraulic Fitting (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 - HH	2
11	66-2950	Hourmeter	1
12	80-7900	Panel - Control	1
13	321-3	Screw - HH	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 - HH	3
22	340-98	Fitting - Hydraulic 90° (Incl. Ref. #23 & 25)	2
23	237-79	O-Ring	2

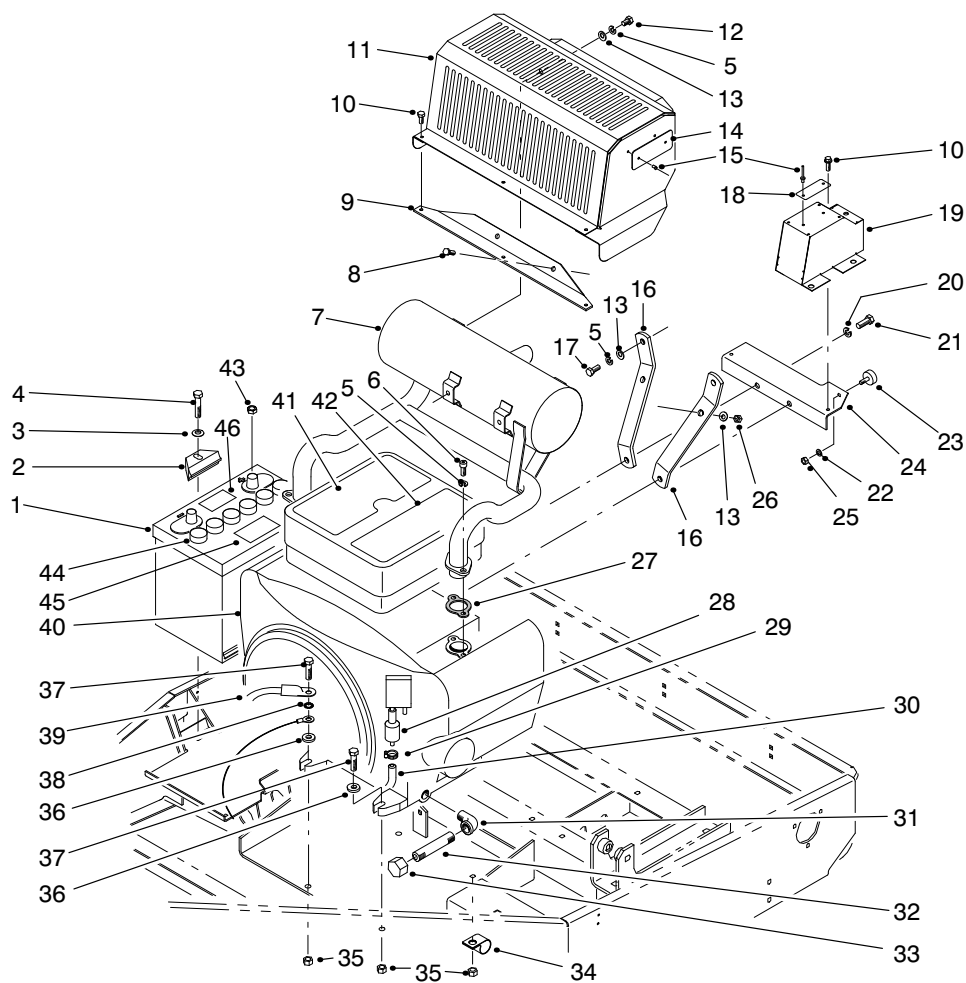
Ref. No.	Part No.	Description	No. Used
24	86-9080	Head - Oil Filter	1
25	237-30	O-Ring	2
26	80-9830	Tube - Hydraulic	1
27	67-8110	Element - Oil Filter	1
28	80-7350	Hose - Hydraulic	1
29	70-1480	Relay	5
30	3253-21	Washer - Lock	2
31	80-7310	Breaker - Circuit (Incl. Ref. #6)	1
32	86-9060	Control - Electric	1
33	3296-42	Nut - Lock	6
34	32105-5	Screw - HH	2
35	80-8890	Mount - Valve	1
36	14-5259	Asm-Valve (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	93-1691	Lever - Valve	1
43	3220-2	Nut - Lock	2
44	80-9550	Bracket - Relay	1
45	32104-95	Screw - HFH	4



T-1193-1

CONTROL LINKAGE ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	3296-29	Nut - Lock	2	18	3296-39	Nut - Lock	3
2	80-8110	Panel - Engine Control (English)	1	19	80-7730	Spacer	3
2	80-9530	Plate - Panel (Europe)	1	20	2411-50	Eye - Rod L.H. Thread	2
2	93-9364	Decal - Engine Control (Europe)	1	21	3296-59	Nut - Lock	2
2	80-9530	Plate - Panel (Japan)	1	22	80-7600	Pin - Pivot	1
2	83-6100	Decal - Engine Control (Japan)	1	23	80-7830	Arm - Pivot	1
3	65-8970	Knob	1	24	3296-56	Nut - Lock	2
4	80-8400	Lever - Speed Control	1	25	283-67	Pin - Clevis	1
5	80-7670	Plate - Speed Control	1	26	80-8430	Cable - Speed Control	1
6	322-3	Screw - HH	2	27	3272-4	Pin - Cotter	1
7	80-7890	Spring - Compression	1	28	42-3560	Bolt - Shoulder	2
8	256-116	Bushing - Flange	6	29	66-4160	Spring - Extension	1
9	80-7540	Stop - Speed	1	30	323-4	Screw - HH	2
10	32151-47	Ring - Retaining	1	31	80-8150	Panel - Control (English)	1
11	80-7000	Arm - Pivot	1	31	93-9362	Panel - Control (Europe)	1
12	323-7	Screw - HH	2	31	83-6080	Panel - Control (Japan)	1
13	2411-51	Eye - Rod R.H. Thread	2	32	3256-14	Washer - Flat	8
14	80-7580	Rod - Speed Adjustment	2	33	32104-60	Screw - HWH	8
15	3220-3	Nut - Jam	2	33	3269-32	Rivet - Pop (Japan)	6
16	80-7590	Spacer	1	34	3256-23	Washer - Flat	2
17	323-14	Screw - HH	1	35	3219-20	Nut - Hex. (L.H. Thread)	2
				20			

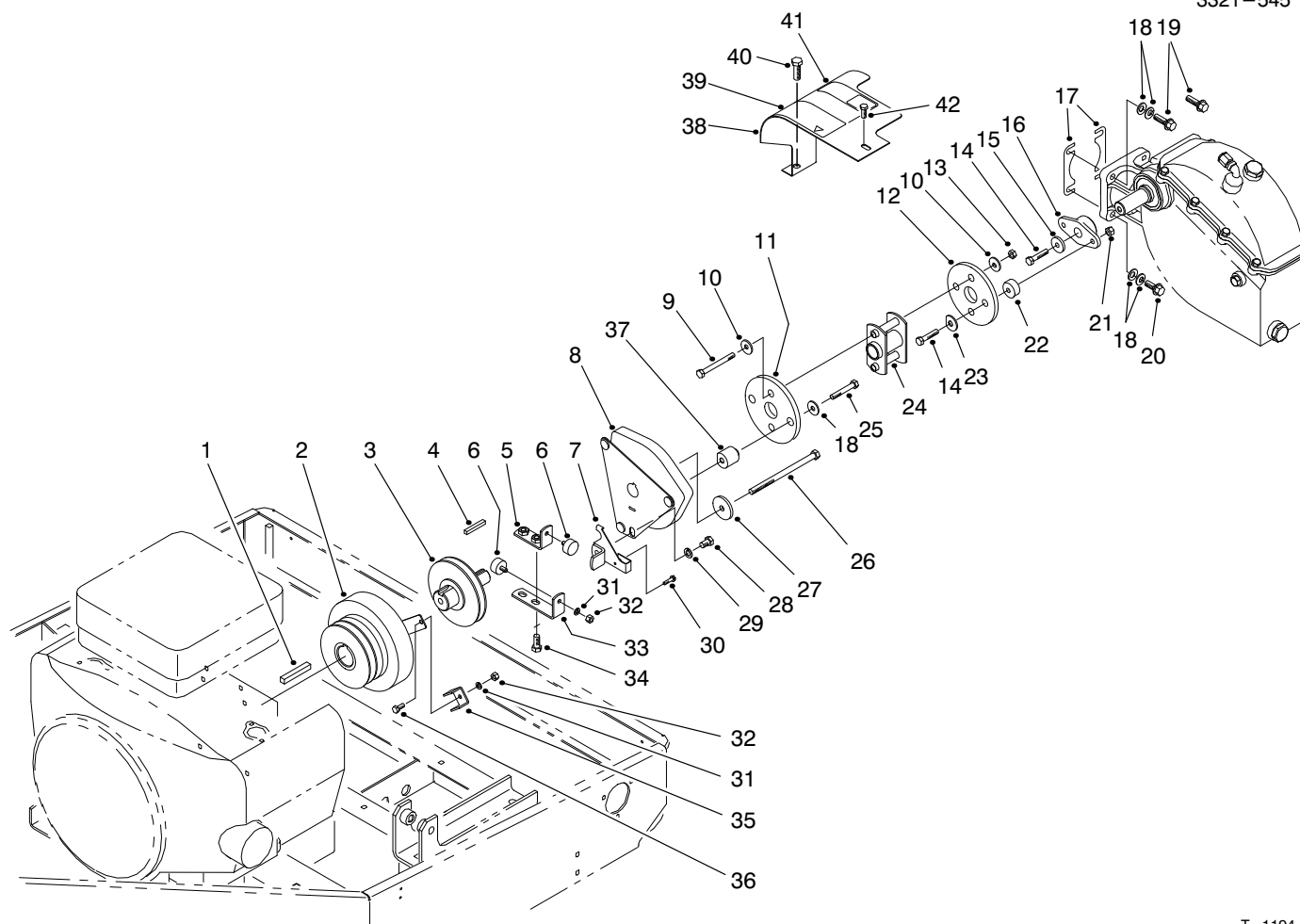


T-1192-1

ENGINE INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	80-6791	Battery	1	24	80-7700	Bracket - Support	1
2	66-2490	Clamp - Battery	1	25	3217-5	Nut	1
3	3256-24	Washer - Flat	3	26	32152-1	Nut - Lock	2
4	323-9	Screw - HH	1	27	82-1520	Gasket - Muffler	2
5	3253-4	Washer - Lock	8	28	71-5960	Filter - Fuel	1
6	3274-10	Screw - HSH	4	29	2412-108	Clamp - Hose	1
7	80-5650	Muffler	1	30	56-2241	Hose - Fuel	1
8	322-4	Screw - HH	2	31	2811-10	Fitting - Drain 90°	1
9	80-9150	Support - Muffler Shield	1	32	289-48	Nipple - Drain	1
10	32144-114	Screw - HH.	5	33	288-4	Cap - Drain	1
11	14-5229	Guard - Muffler (Incl. Ref. #14 & 15)	1	34	2412-126	Clamp - R	2
12	322-1	Screw - HH	2	35	32128-21	Nut - Flange Lock	4
13	3256-23	Washer - Flat	6	36	52-5980	Spacer	2
14	80-8290	Plate - Hot Surface (English)	3	37	323-19	Screw - HH	4
14	83-6130	Plate - Hot Surface (Japan)	3	38	3255-9	Washer - E.T.L.W.	1
15	3269-32	Rivet - Pop	10	39	86-8470	Cable - Battery (Neg.)	1
16	80-7680	Support - Muffler	2	*	86-8480	Cable - Battery (Pos.)	1
17	322-3	Screw - HH	2	40	86-8990	Asm - Engine Model No. P224G Spec. G (Incl. Ref. #28)	1
18	80-9350	Plate - Hot Surface (English)	2	41	80-9940	Decal - Service Check	1
18	83-6140	Plate - Hot Surface (Japan)	2	41	93-9358	Decal - Service (Europe)	1
19	14-5239	Guard - Muffler L.H. (Incl. Ref. #15 & 18)	1	42	80-9950	Decal - Quick Reference	1
*	14-5249	Guard - Muffler R.H. (Incl. Ref. #15 & 18)	1	42	93-9359	Decal - Reference (Europe)	1
20	3253-21	Washer - Lock	2	43	32149-10	Nut - Lock	2
21	323-6	Screw - HH	2	44	86-8460	Cap - Battery	6
22	3253-3	Washer - Lock	1	45	93-7276	Decal - Danger (Europe)	1
23	240-14	Bumper - Rubber	1	46	93-6668	Decal - Battery (Europe)	1

* Not Illustrated

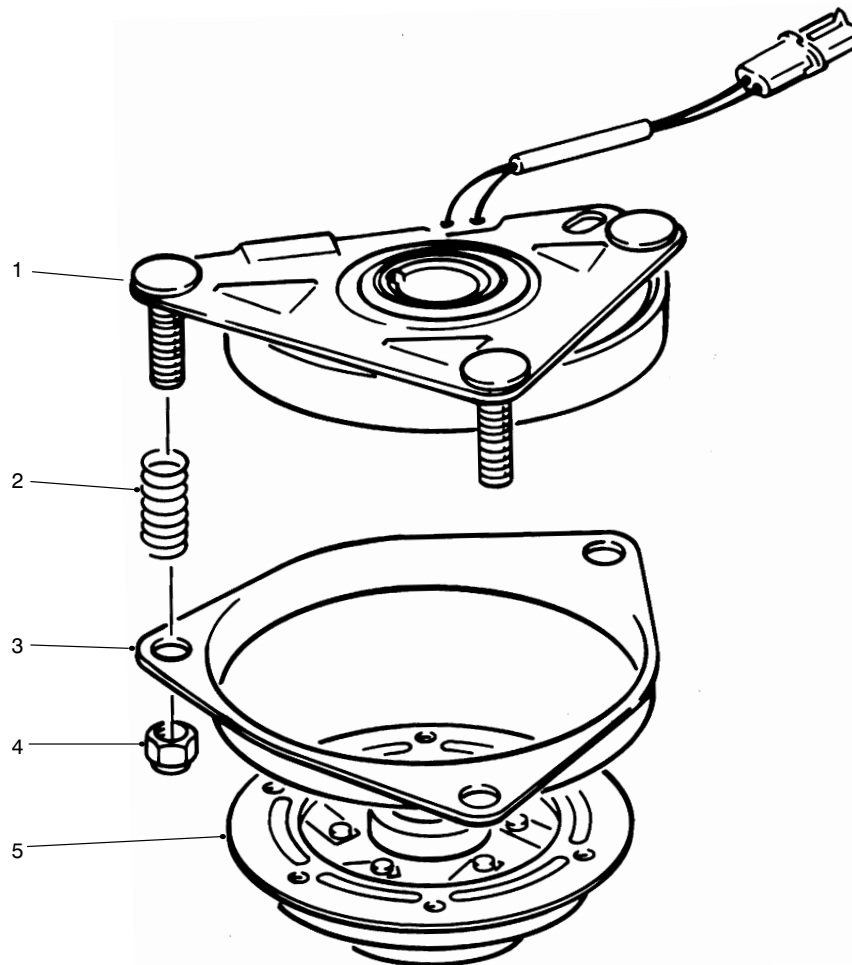


T-1194-1

GEAR BOX DRIVE ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	80-6140	Key - Clutch	1	21	32152-5	Nut - Lock	2
2	80-5430	Clutch - Water Pump	1	22	80-8660	Spacer - Coupling	2
3	80-9520	Pulley - Engine	1	23	80-8620	Spacer - Coupler	2
4	7-0238	Key - Clutch	1	24	86-8950	Shaft - Coupler	1
5	80-9760	Stop - Clutch	1	25	322-4	Screw - HH	2
6	240-14	Bumper	2	26	3211-38	Screw - HH	1
7	86-8650	Stop - Clutch	1	27	80-8560	Washer	1
8	86-8160	Asm - Electric Clutch	1	28	323-2	Screw - HH	1
9	3210-14	Screw - HH	2	29	3253-21	Washer - Lock	1
10	3256-23	Washer - Flat	4	30	32144-53	Screw - Hex. Socket Hd.	1
11	80-9910	Disc - Rubber	1	31	3253-3	Washer - Lock	3
12	80-8650	Disc - Rubber	1	32	3217-5	Nut - Lock	3
13	3296-20	Nut - Lock	2	33	80-9780	Stop - Clutch	1
14	3210-8	Screw - HH	3	34	323-6	Screw - HH	2
15	80-8570	Washer	1	35	86-8680	Bracket - Clutch Retainer	2
16	80-8180	Hub - Adapter	1	36	321-3	Screw - HH	1
17	80-7050	Shim - Gear Box .002" Red	2	37	80-9920	Spacer - Coupler	2
*	80-7051	Shim - Gear Box .005" Blue	2	38	14-5169	Shield - Drive (Incl. Ref. #39 & 41)	1
*	80-7052	Shim - Gear Box .015" Pink	2	39	80-8000	Decal - Warning (English)	1
*	80-7053	Shim - Gear Box .020 Yellow	2	39	83-6070	Decal - Warning (Japan)	1
18	3256-24	Washer - Flat	10	40	32144-67	Screw - HWH	1
19	323-44	Screw - HWH	2	41	80-8040	Decal - Warning (English)	1
20	323-46	Screw - HWH	2	41	93-7814	Decal - Warning (Europe)	1
				41	83-6030	Decal - Warning (Japan)	1
				42	32104-95	Screw - HWH	1

* Not Illustrated

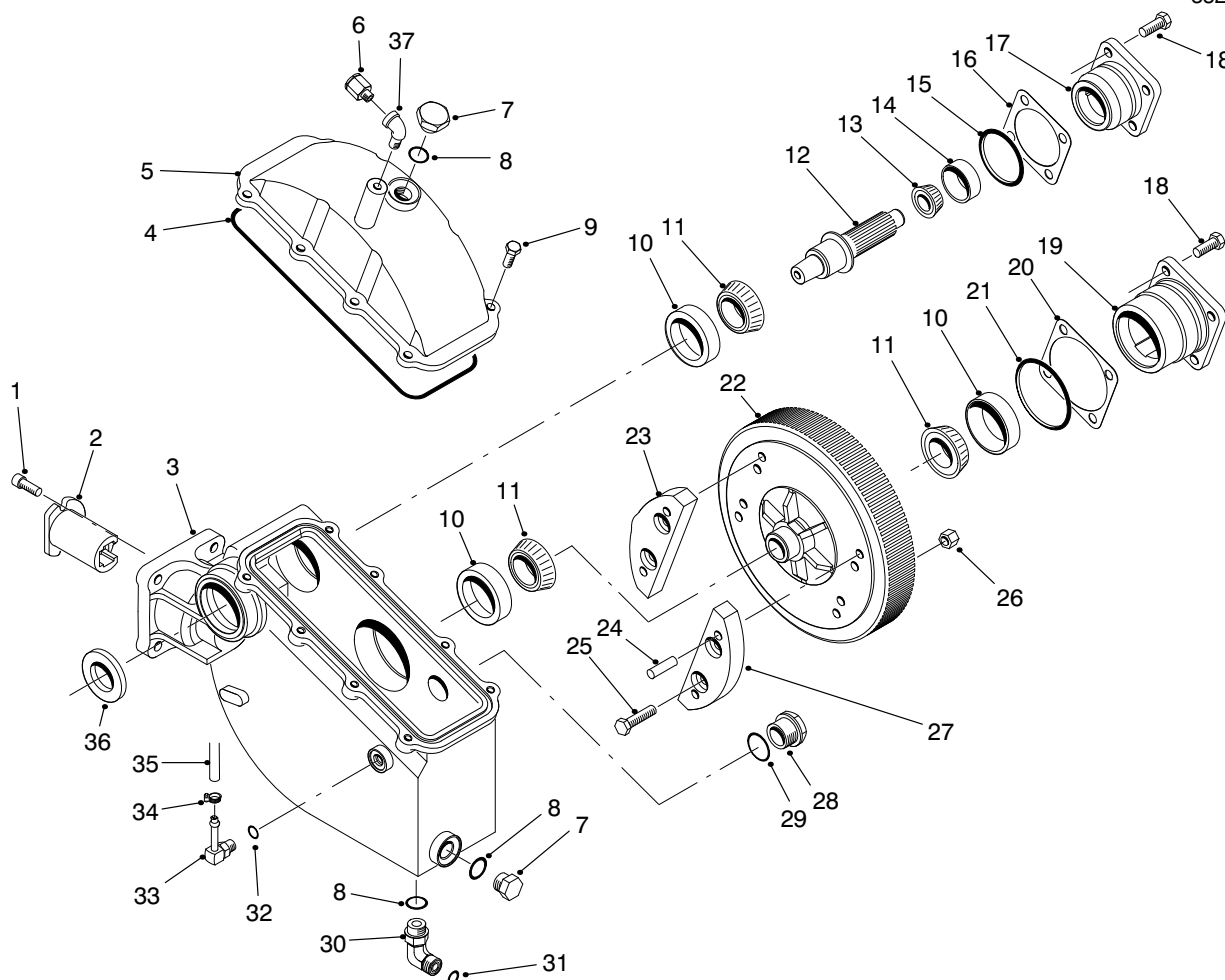


T-1274-1

ELECTRIC CLUTCH ASSEMBLY NO. 86-8160

Ref. No.	Part No.	Description	No. Used
1	67-7050	Asm-Field Rotor	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	86-8170	Asm-Armature & Hub	1

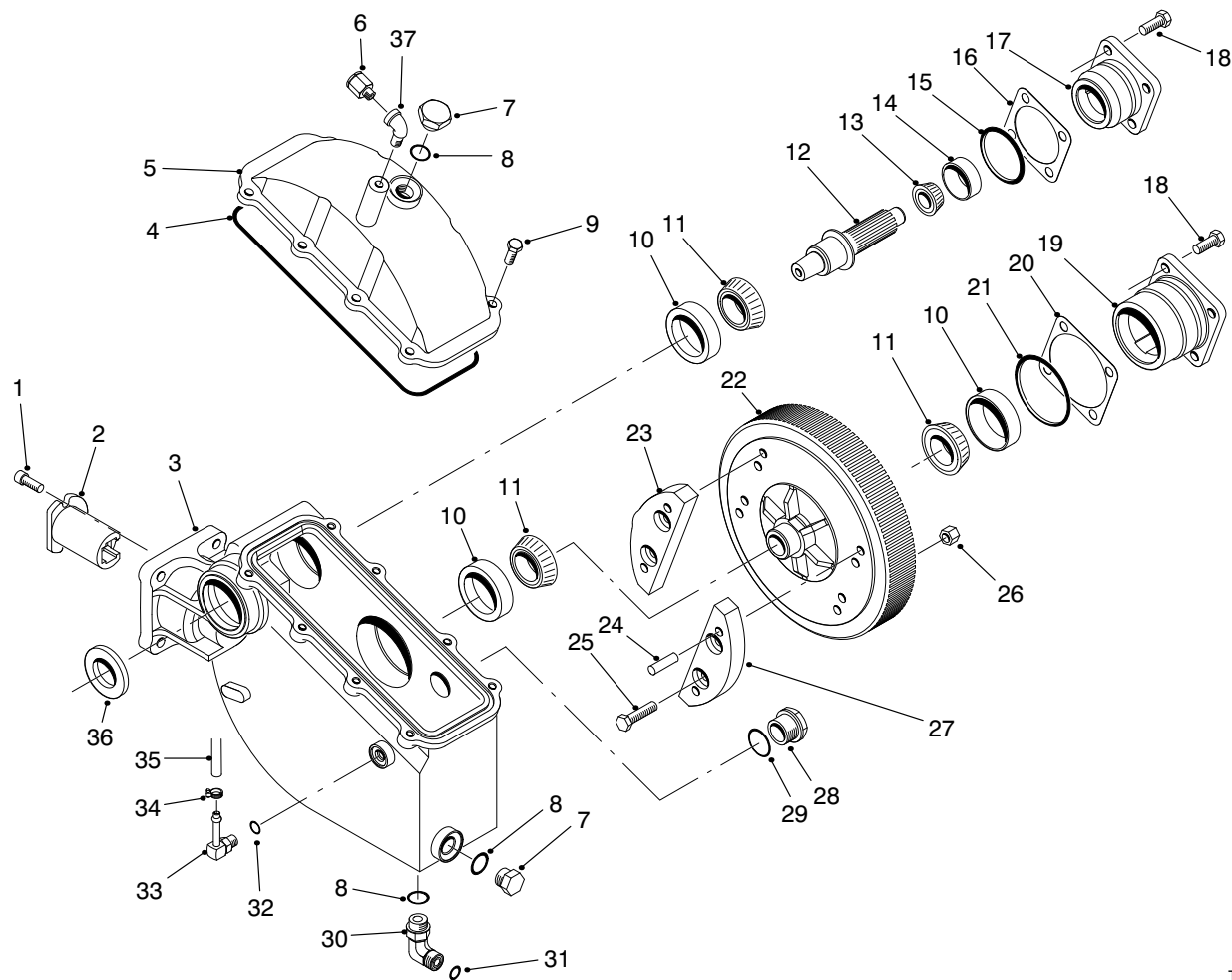


T-1199-1

GEARBOX ASSEMBLY

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

* Not Illustrated

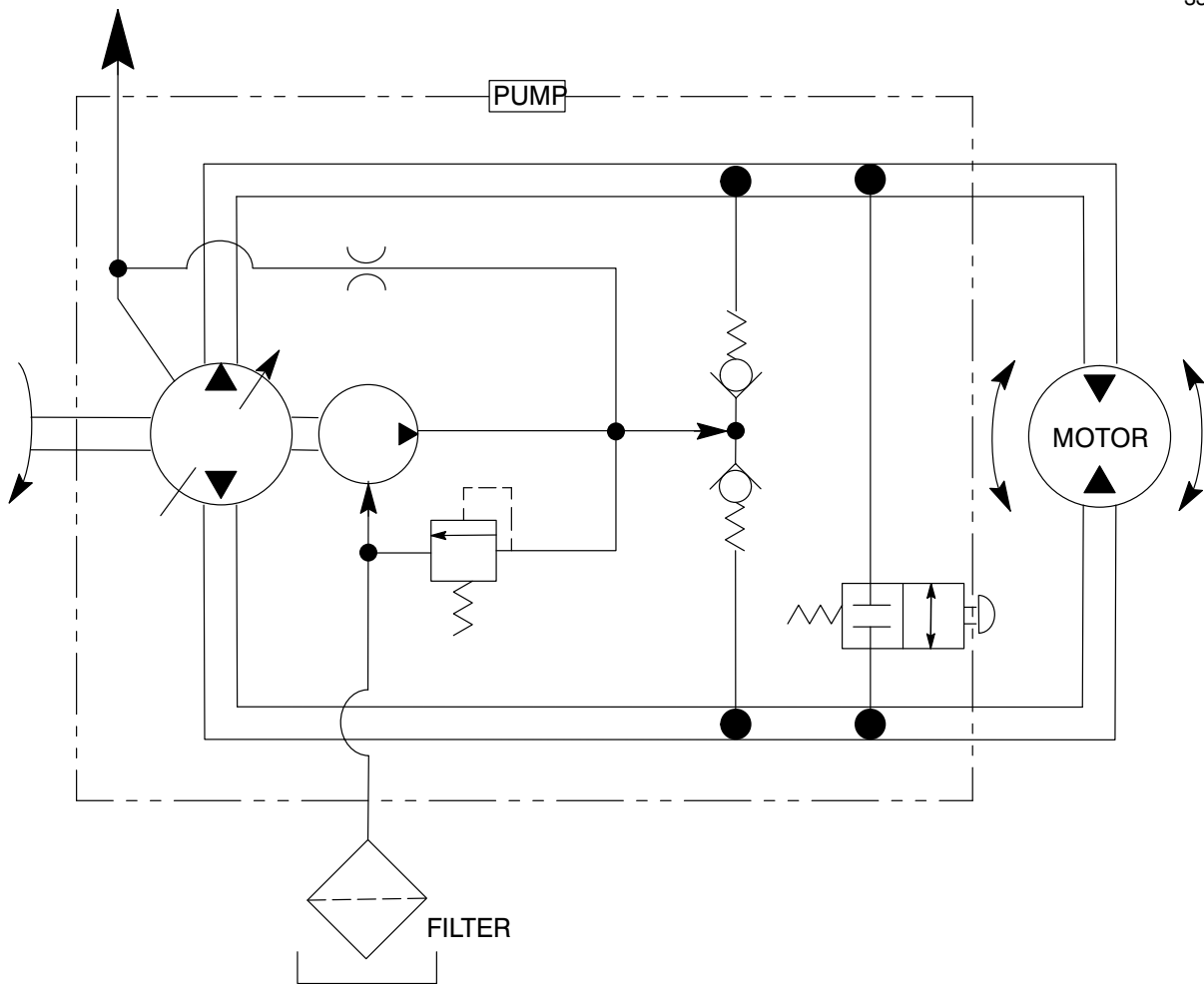


T-1199-1

GEARBOX ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
35	80-7360	Hose – Hydraulic	1
36	253-148	Seal – Input Shaft	1

Ref. No.	Part No.	Description	No. Used
37	2811-7	Fitting – Breather 90°	1

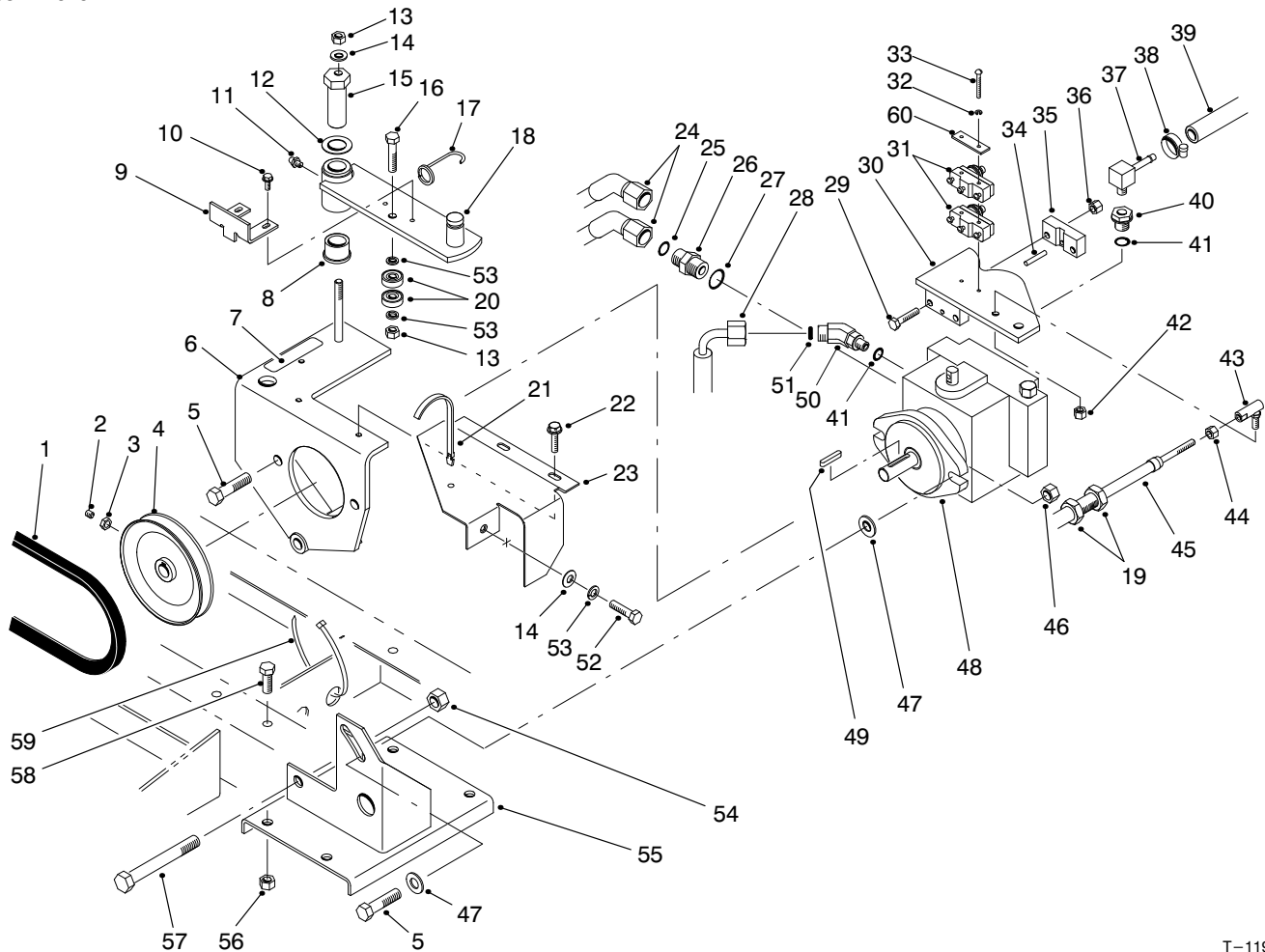


T-1273-1

HYDRAULIC SCHEMATIC

Ref. No.	Part No.	Description	No. Used

Ref. No.	Part No.	Description	No. Used

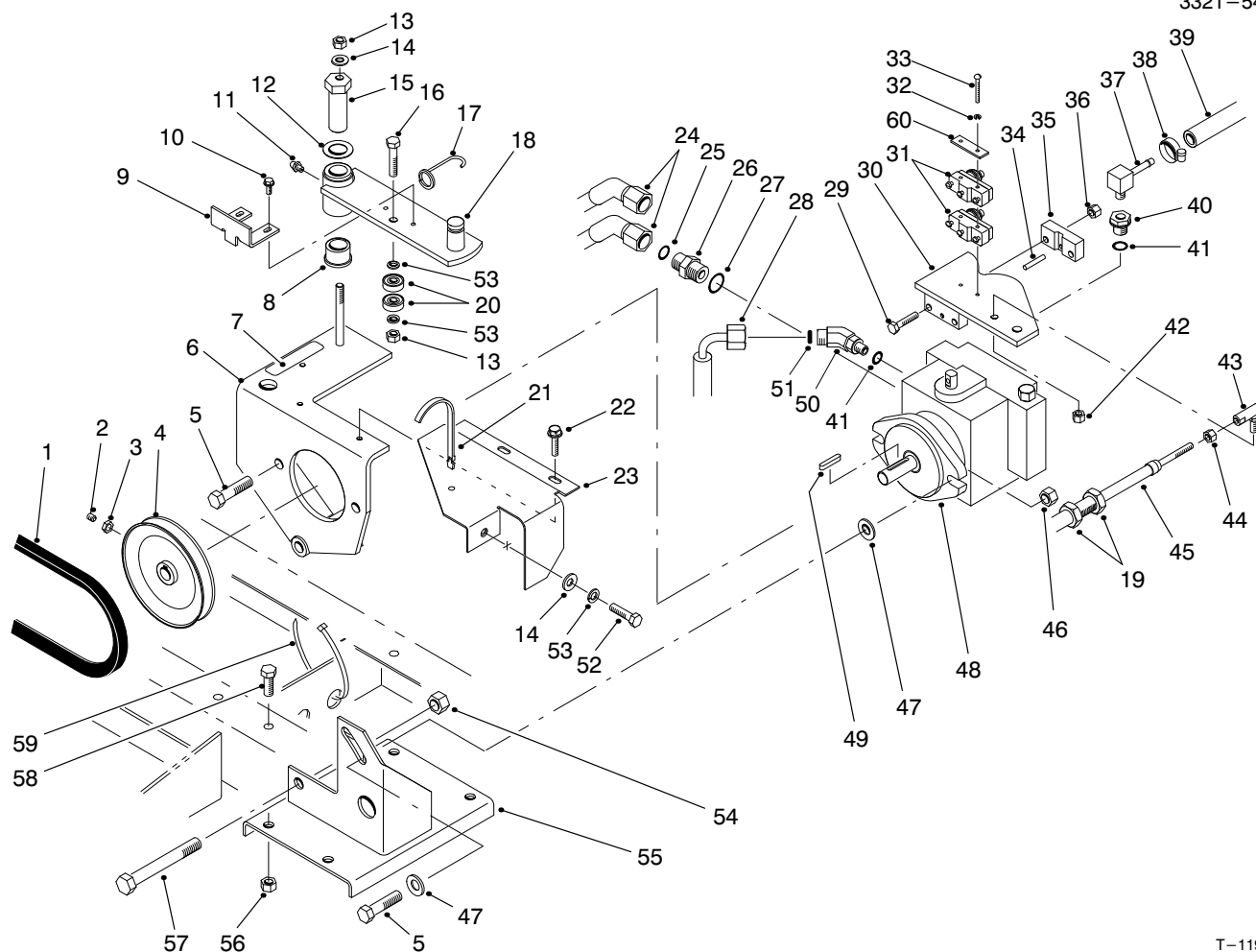


T-1195-1

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 - HH	2
6	14-5209	Mount - Pump (Incl. Ref. #7)	1
7	80-8760	Decal - Danger (English)	1
7	93-9370	Decal - Danger (Europe)	1
7	83-6040	Decal - Danger (Japan)	1
8	256-113	Bushing - Flange	2
9	80-7770	Tab - Switch	1
10	32104-60	Screw - HWH	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 - HH	1
17	80-6610	Spring - Extension	1
18	80-7630	Asm - Neutral Lever	1
19	3220-6	Nut - Jam	2
20	251-259	Bearing - Ball	2
21	3290-410	Tie - Cable	1
22	32104-95	Screw - HWH	2
23	80-9170	Bracket - Pulley Guard	1
24	80-7330	Hose - Hydraulic	2

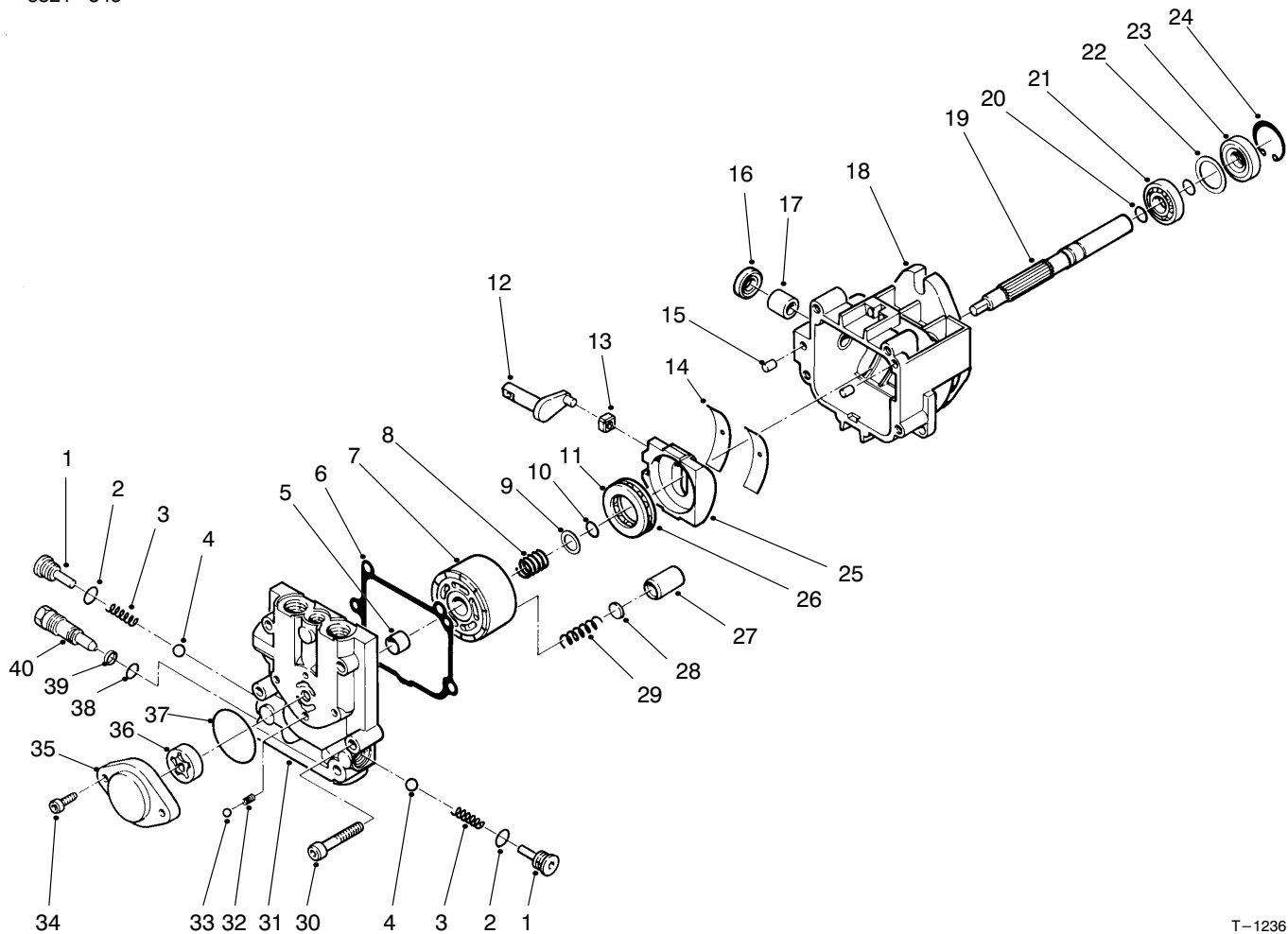
Ref. No.	Part No.	Description	No. Used
25	237-30	O-Ring	2
26	340-4	Fitting - Hydraulic Straight (Incl. Ref. #25 & 27)	2
27	237-79	O-Ring	2
28	80-7350	Hose - Hydraulic	1
29	321-10	Screw - HH	2
30	80-7800	Lever - Pump	1
31	29-6162	Switch - Micro	2
32	3254-9	Washer - Lock	2
33	32105-25	Screw - Round Hd.	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	O-Ring	2
42	3296-3	Nut - Lock	1
43	2411-34	Joint - Ball	1
44	3220-1	Nut - Jam	1
45	80-7220	Asm - Stroke Control Cable (Incl. Ref. #19)	1
46	32128-37	Nut - Flange Lock	2
47	3256-25	Washer - Flat	2
48	80-5450	Asm - Hydraulic Pump	1



T-1195-1

HYDRAULIC PUMP INSTALLATION ASSEMBLY (Cont.)

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
49	80-6090	Key - Pump	1	55	80-7460	Support - Pump	1
50	340-54	Fitting - Hydraulic 45° (Incl. Ref. #41 & 51)	1	56	3296-39	Nut - Lock	4
51	237-22	O-Ring	1	57	325-17	Screw - HH	1
52	322-5	Screw - HH	1	58	323-6	Screw - HH	4
53	3253-4	Washer - Lock	3	59	3290-378	Tie - Cable	1
54	3296-23	Nut - Lock	1	60	61-2990	Plate - Back Up	1



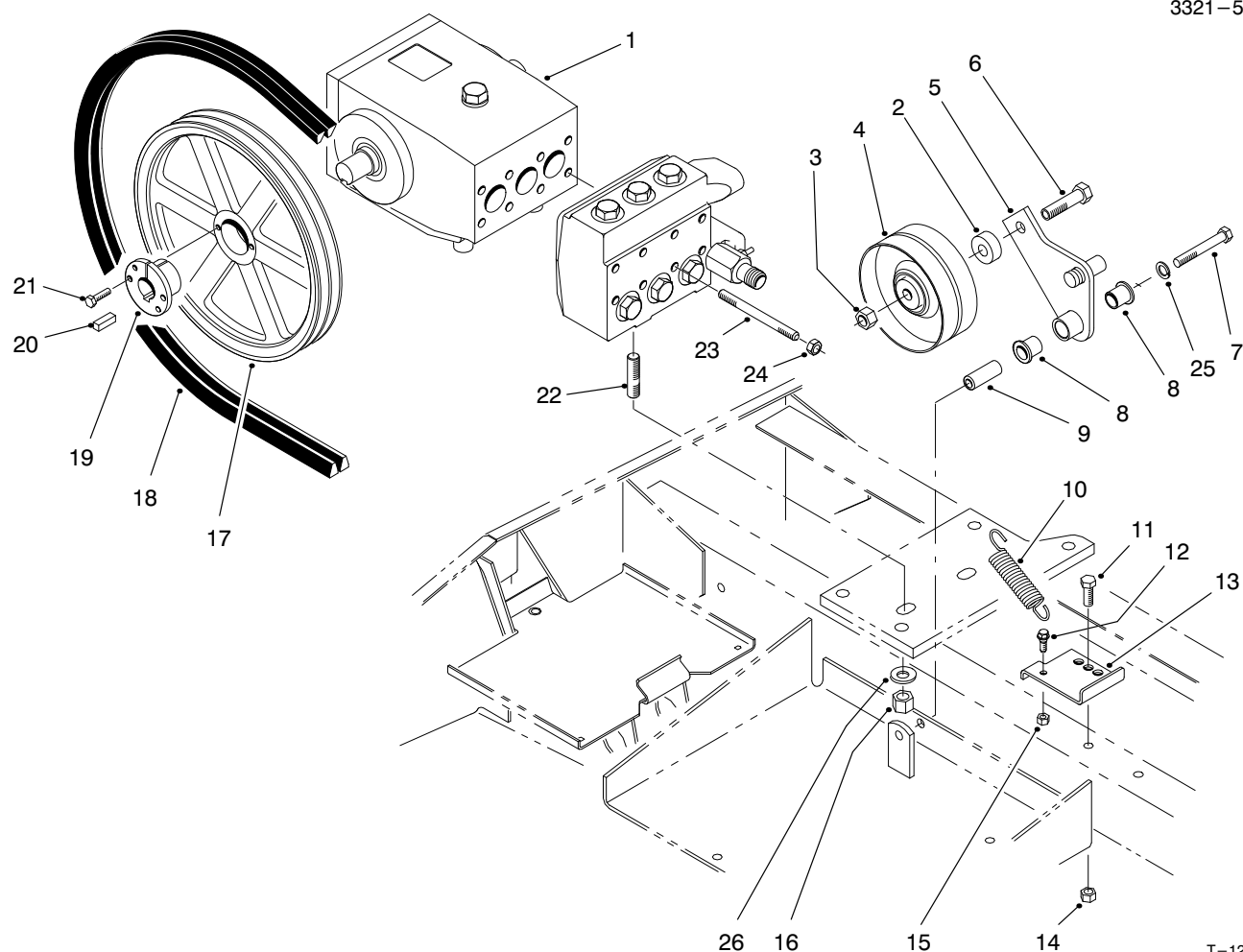
T-1236-1

HYDRAULIC PUMP ASSEMBLY NO. 80-5450

Ref. No.	Part No.	Description	No. Used
1	80-6120	Kit-Check Valve (Incl. Ref. #2-4)	1
2		O-Ring	2
3		Spring	2
4		Ball	2
5		Journal - Bearing	1
6		Gasket - End Cap	1
7		Kit-Cylinder Block (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		Asm-Housing (Incl. Ref. #16 & 17)	1
19		Shaft	1
20		Ring - Retaining	2
21		Bearing - Ball	1
22		Spacer	1

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

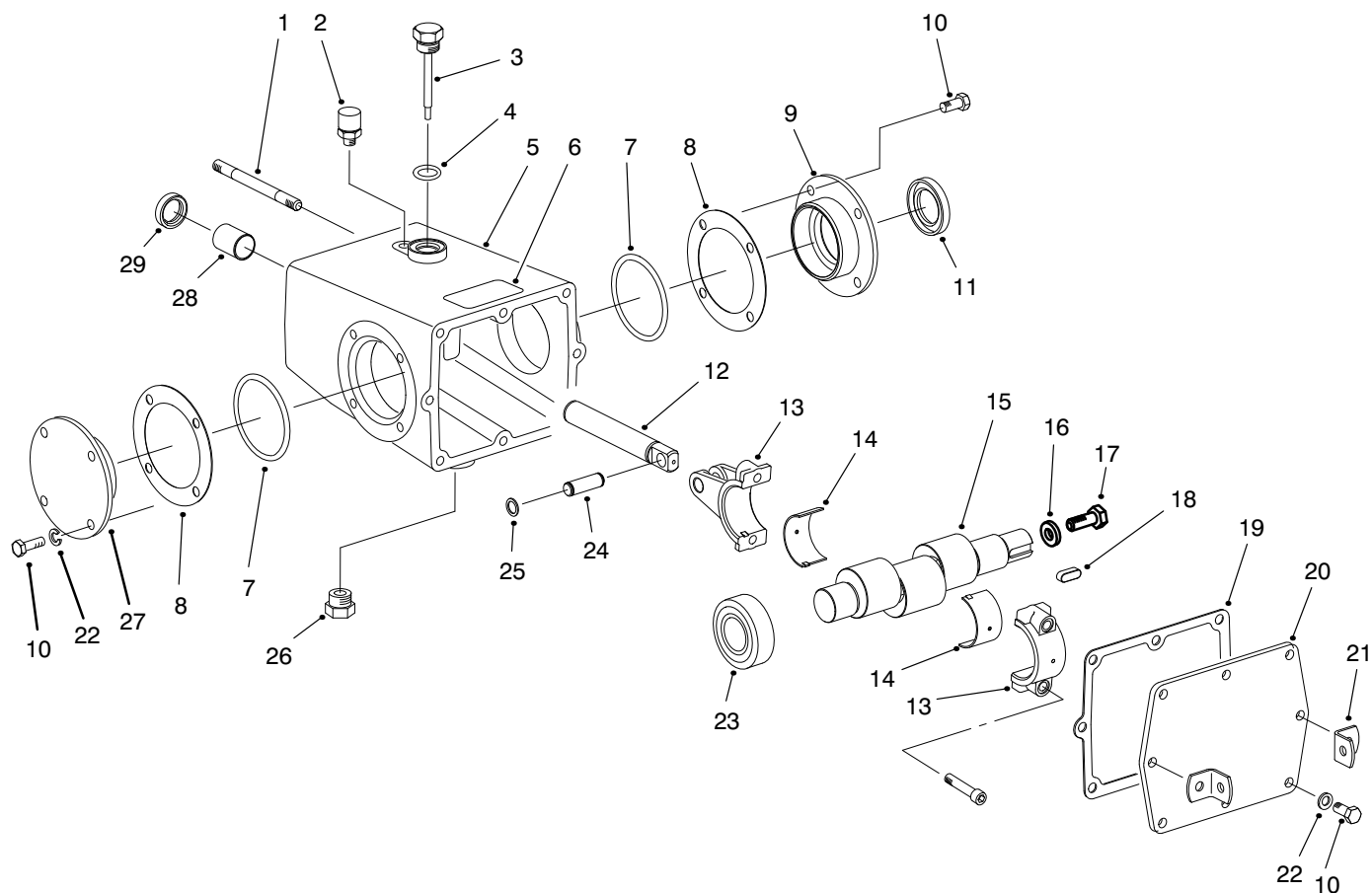
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T-1201-1

WATER PUMP INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	86-8900	Asm-Water Pump Crankcase (Incl. Ref. #23)	1	14	3296-39	Nut - Lock	1
2	86-8890	Spacer - Pulley	1	15	3296-56	Nut - Lock	1
3	3296-28	Nut - Lock	1	16	3296-19	Nut - Lock	2
4	80-8360	Pulley - Idler	1	17	80-6650	Pulley - Water Pump	1
5	86-8870	Bracket - Idler	1	18	80-6730	Belt - V	2
6	3213-7	Screw - HH	1	19	80-6660	Collar - Taper Lock (Incl. Ref. #21)	1
7	323-12	Screw - HH	1	20	80-5920	Key - Collar	1
8	80-9610	Bushing - Flange	2	21	321-4	Screw - HH	2
9	80-7710	Sleeve - Idler Bracket	1	22	80-8680	Stud - Mounting	2
10	80-6620	Spring - Extension	1	23	86-8830	Stud - Head	8
11	323-6	Screw - HH	1	24	3219-28	Nut - Lock	8
12	42-3560	Bolt - Shoulder	1	25	3253-21	Washer - Lock	1
13	80-6600	Bracket - Spring	1	26	3256-26	Washer - Flat	2



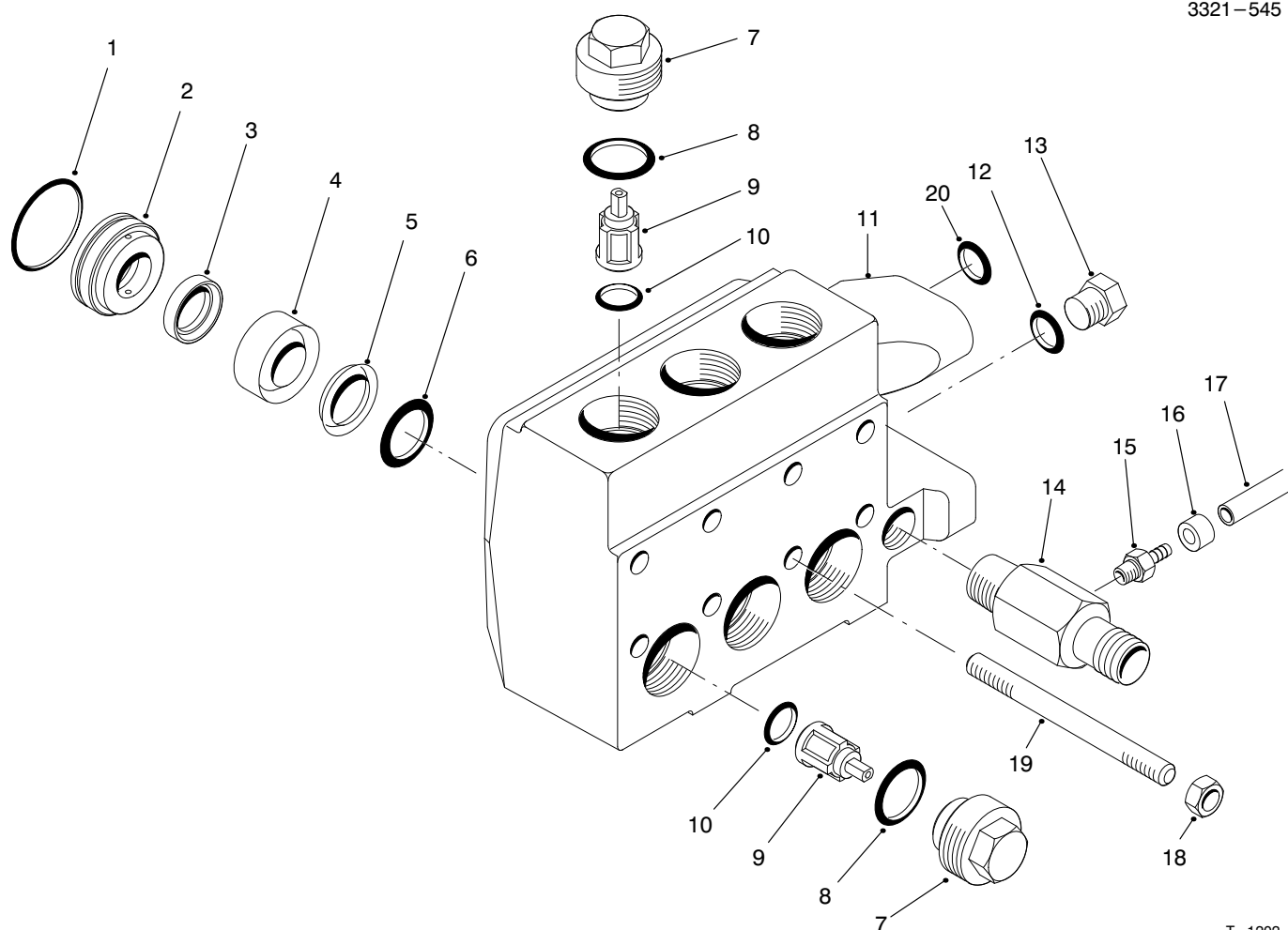
T-1917-1

WATER PUMP CRANKCASE ASSEMBLY NO. 86-8900

Ref. No.	Part No.	Description	No. Used
1	86-8830	Stud - Head	8
2	80-7020	Vent - Filter	1
3	86-8860	Dipstick	1
4	237-79	O-Ring	1
5	86-8810	Crankcase	1
6	80-9450	Decal - Pump	1
6	93-9360	Decal - Pump (Europe)	1
7	237-25	O-Ring	2
8	86-8720	Shim - .002" Red	A/R
*	86-8721	Shim - .005" Blue	A/R
*	86-8722	Shim - .015" Pink	A/R
*	86-8723	Shim - .020" Yellow	A/R
9	86-8580	Flange - Crankcase	1
10	322-3	Screw - HH	16
11	86-8760	Seal	1
12	86-8820	Rod - Plunger	3
13	86-8380	Rod - Connecting	3

Ref. No.	Part No.	Description	No. Used
14	86-8840	Bearing Set - Split	3
15	86-8360	Crankshaft	1
16	3256-56	Washer - Flat	1
17	323-2	Screw - HH	1
18	86-8790	Key	1
19	86-8730	Gasket	1
20	86-8850	Cover - Crankcase	1
21	92-9547	Bracket - Angle	2
22	3253-4	Washer - Lock	12
23	86-8780	Bearing - Tapered	2
24	86-8740	Pin - Connecting Rod	3
25	32151-65	Ring - Retaining	6
26	353-550	Plug - Drain	1
27	86-8570	Flange - Crankcase	1
28	86-8750	Guide - Plunger	3
29	86-8770	Seal	3

* Not Illustrated

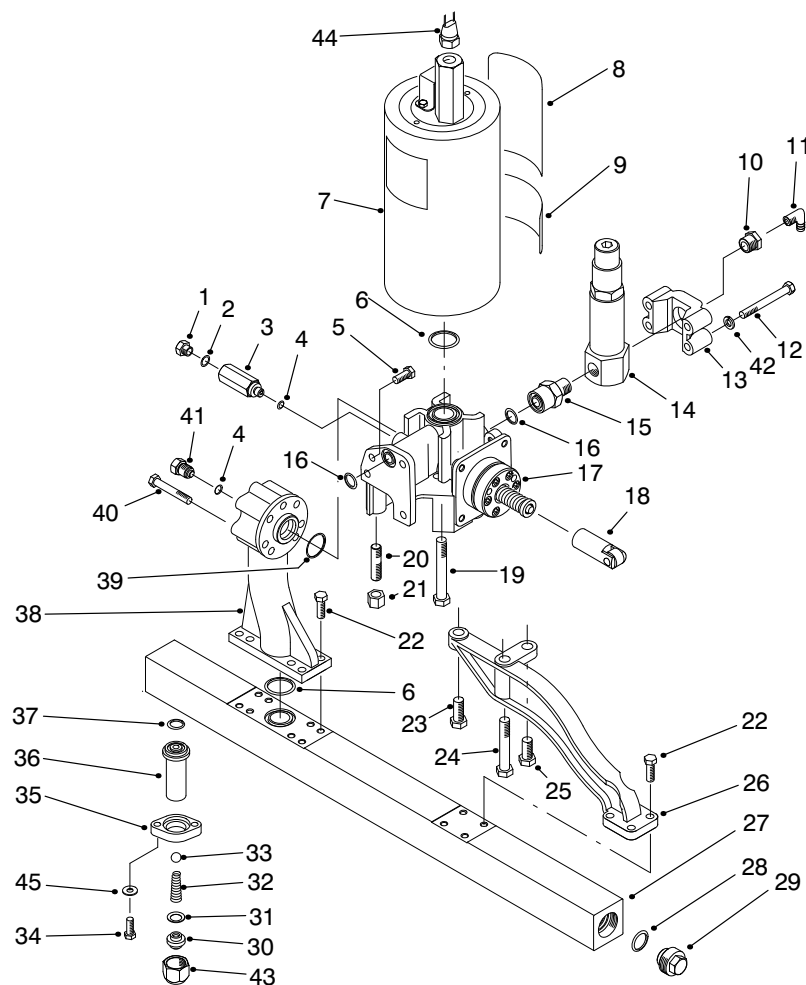


T-1202-1

WATER PUMP HEAD ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	237-170	O-Ring	3	13	354-82	Asm-Plug	3
2	80-5720	Retainer - Seal	3	14	80-9400	Fitting - Straight Bard	1
3	80-5760	Seal - U-Cup	3	15	304-101	Fitting - Barb	1
4	80-5750	Support - Seal/Plunger	3	16	80-9480	Retainer - Tube	1
5	80-5740	Seal - Packing Vee	3	17	80-6521	Hose - Gage	1
6	80-5730	Ring - Head Back-Up	3	18	3219-28	Nut - Hex.	8
7	80-8220	Cap - Check Valve	6	19	86-8830	Stud - Head	8
8	80-5791	O-Ring	6	20	80-5782	O-Ring	1
9	80-5630	Valve - Check	6	*	80-9640	Kit-Seal (Incl. Ref. #1, 3-6 & 20)	1
10	80-5781	Seal - Check Valve	6	*	80-9650	Kit-Check Valve (Incl. Ref. #8-10)	1
11	14-5289	Head - Pump	1				
12	80-5794	O-Ring	1				

* Not Illustrated



T-1200-1

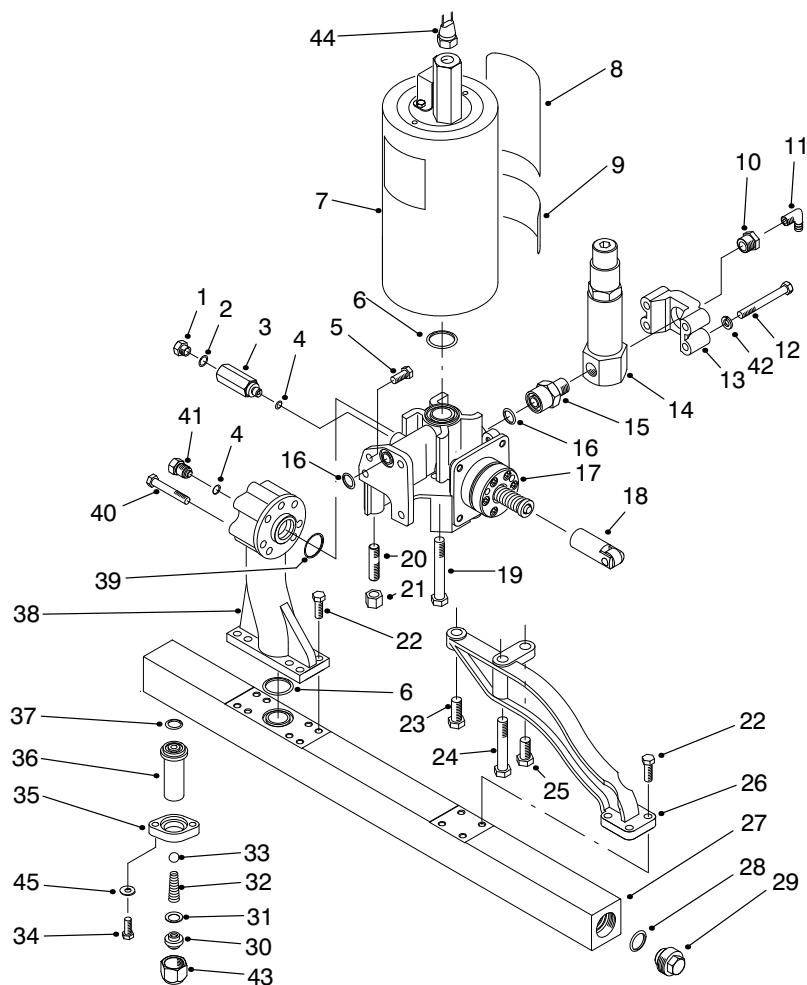
WATER MANIFOLD & VALVE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	354-82	Plug	1
2	80-5794	O-Ring	1
3	80-9980	Fitting - Extension	1
4	80-5793	O-Ring	2
5	323-6	Screw - HH	4
6	80-5784	O-Ring	2
7	93-1667	Asm-Accumulator (Incl. Ref. #6, 8, 9, & 19)	1
8	80-8030	Decal - Danger (English)	2
8	93-9383	Decal - Danger (Danish)	1
8	93-9384	Decal - Danger (Dutch)	1
8	93-9385	Decal - Danger (Finnish)	1
8	83-6170	Decal - Danger (French)	1
8	83-5800	Decal - Danger (German)	1
8	83-5590	Decal - Danger (Italian)	1
8	93-9386	Decal - Danger (Norwegian)	1
8	93-9387	Decal - Danger (Portuguese)	1
8	83-5910	Decal - Danger (Spanish)	1
8	83-5440	Decal - Danger (Swedish)	1
9	80-8880	Decal - Warning (English)	2
9	93-9361	Decal - Warning (Europe)	1
9	83-6110	Decal - Warning (Japan)	1
10	354-92	Fitting - Reducer	1
11	354-93	Fitting - 90° Elbow	1
12	323-17	Screw - HH	4
13	80-9890	Clamp - Valve	1

Ref. No.	Part No.	Description	No. Used
14	80-7070	Asm-Relief Valve	1
15	80-9900	Fitting - Valve	1
16	80-5782	O-Ring	2
17	14-7449	Asm-Valve (Incl. Ref. #20)	1
18	80-5580	Follower - Cam	1
19	324-26	Screw - HH	4
20	80-8680	Stud	2
21	3296-19	Nut - Lock	2
22	323-5	Screw - HH	12
23	325-5	Screw - HH	1
24	325-12	Screw - HH	1
25	325-4	Screw - HH	1
26	80-5080	Support - Manifold	1
27	80-5380	Manifold	1
28	80-5791	O-Ring	2
29	80-8220	Plug	2
30	86-8131	Nozzle (#53) (Std.)	11
*†	86-8133	Nozzle (#46) (Opt.)	6
*†	86-8130	Nozzle (#56) (Opt.)	6
31	86-8150	Washer	11
32	80-9710	Spring - Conical	11
33	255-12	Ball - Check	11
34	86-8610	Screw - HFFH	22
35	80-9800	Flange - Nozzle	11
36	86-8110	Extension - Nozzle	11

* Not Illustrated

† Refer to Product Operators Manual.



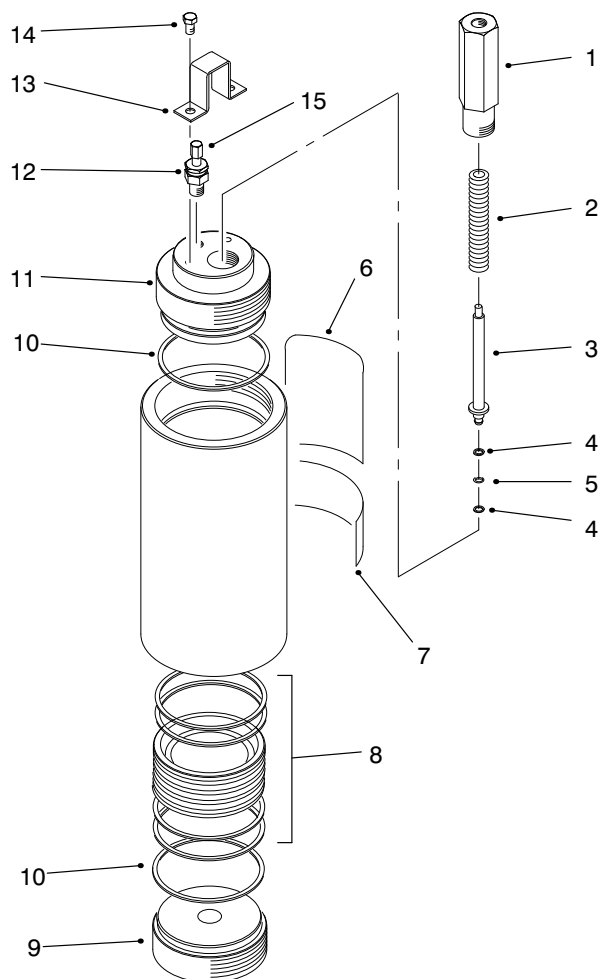
T-1200-1

WATER MANIFOLD & VALVE ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used
37	80-5786	O-Ring	11
38	80-8210	Feeder - Manifold	1
39	80-5780	O-Ring	1
40	323-13	Screw - HH	7
41	80-8230	Plug	1

Ref. No.	Part No.	Description	No. Used
42	3253-21	Washer - Lock	4
43	86-8140	Retainer - Nozzle	11
44	72-4320	Switch - Ball	1
45	3256-2	Washer - Flat	22

* Not Illustrated

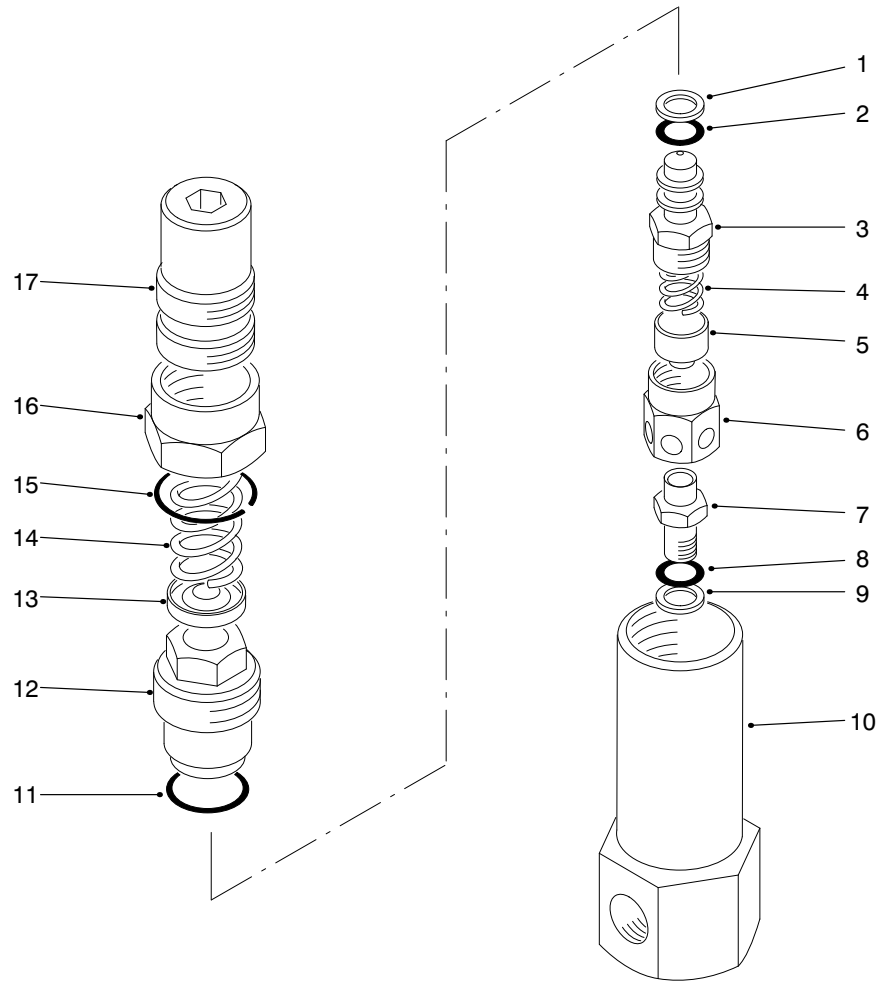


T-2040-1

ACCUMULATOR ASSEMBLY NO. 93–1667†

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	92–9531	Retainer – Plunger	1	6	83–5910	Decal – Danger (Spanish)	1
2	92–9532	Spring – Compression	1	6	83–5440	Decal – Danger (Swedish)	1
3	92–9530	Plunger – Switch	1	6	83–6020	Decal – Danger (Japan)	1
4	92–9536	Ring – Backup	2	7	80–8880	Decal – Warning (English)	2
5	92–9535	O–Ring	1	7	93–9361	Decal – Warning (Europe)	1
6	80–8030	Decal – Danger	2	7	83–6110	Decal – Warning (Japan)	1
6	93–9383	Decal – Danger (Danish)	1	8	80–8980	Asm–Piston	1
6	93–9384	Decal – Danger (Dutch)	1	9	80–9040	Cap – End	1
6	93–9385	Decal – Danger (Finnish)	1	10	80–8990	Ring – Backup	2
6	83–6170	Decal – Danger (French)	1	11	93–1674	Cap – End	1
6	83–5800	Decal – Danger (German)	1	12	80–9000	Valve – Accumulator	1
6	83–5590	Decal – Danger (Italian)	1	13	80–9020	Guard – Valve	1
6	93–9386	Decal – Danger (Norwegian)	1	14	323–4	Screw – HH	2
6	93–9387	Decal – Danger (Portuguese)	1	15	80–8970	Cap – Valve	1

† Note: Accumulator is shipped without gas pressure, it must be charged by an Authorized Toro Technician prior to use.



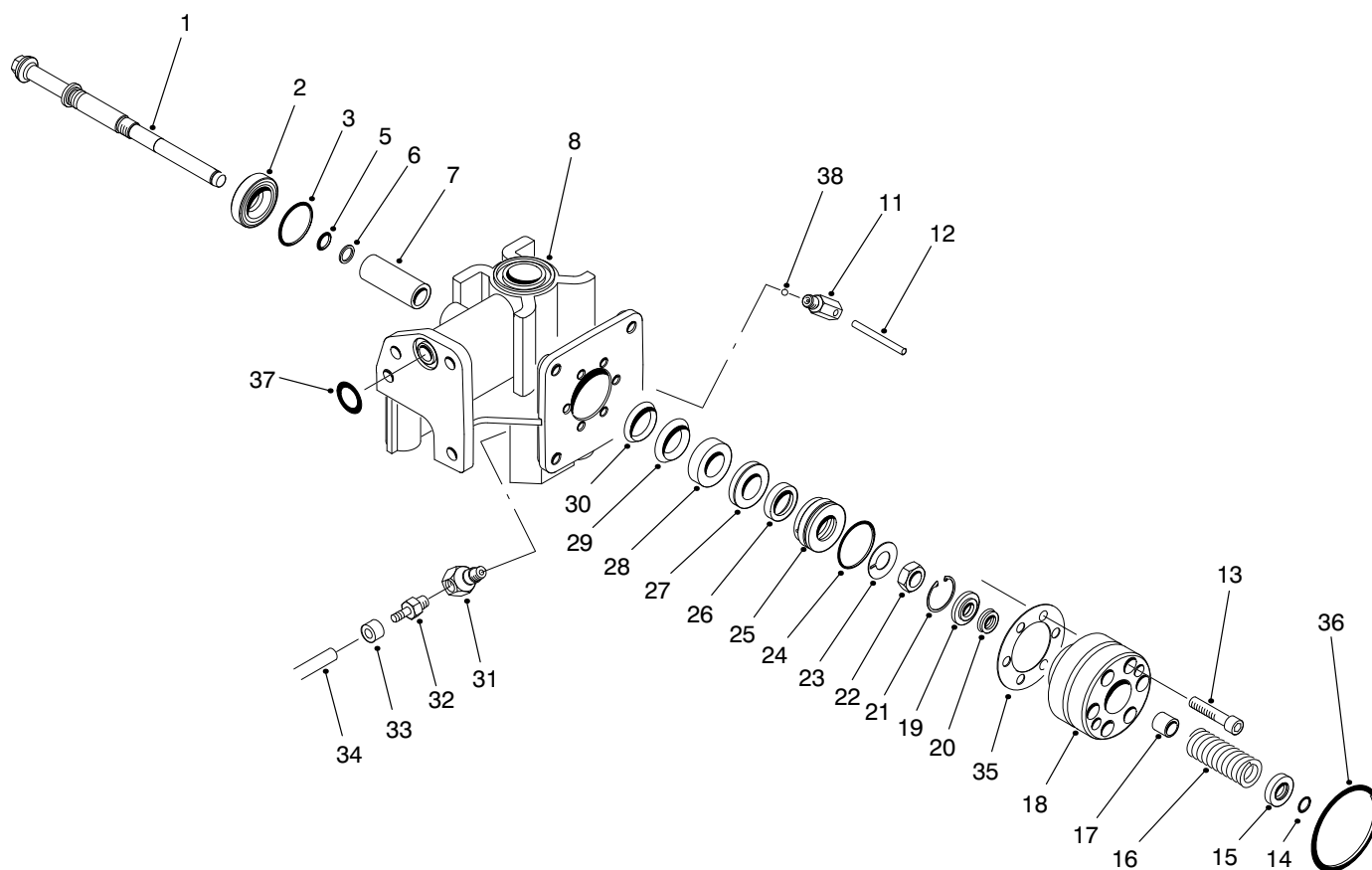
T-1918-1

RELIEF VALVE ASSEMBLY NO. 80-7070

Ref. No.	Part No.	Description	No. Used
1		Ring - Backup	1
2		O-Ring	1
3		Stem	1
4		Spring - Compression	1
5		Poppet	1
6		Retainer	1
7		Seat	1
8		O-Ring	1
9		Ring - Backup	1
10		Body	1
11		O-Ring	1

Ref. No.	Part No.	Description	No. Used
12		Insert - Plug	1
13		Equalizer - Spring	1
14		Spring - Compression	1
15		Ring - Retaining	1
16		Nut	1
17		Guide - Spring	1
*	86-8550	Kit - Valve Repair (Incl. Ref. #1-9, & 11-15)	1
*	95-5677	Kit - Seal, Valve (Incl. Ref. #1, 2, 8, 9 & 11)	1

* Not Illustrated

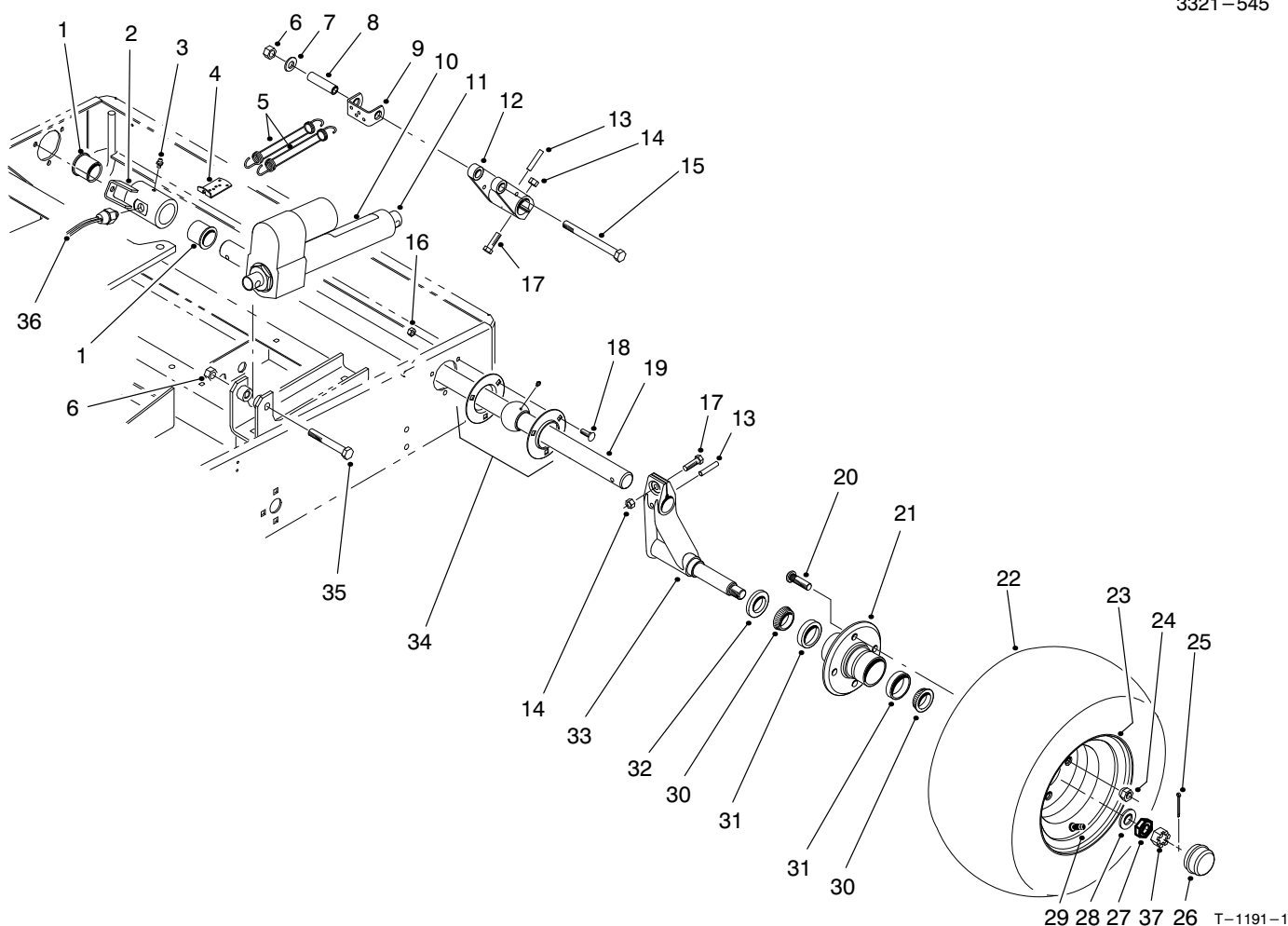


T-1206-1

WATER VALVE ASSEMBLY

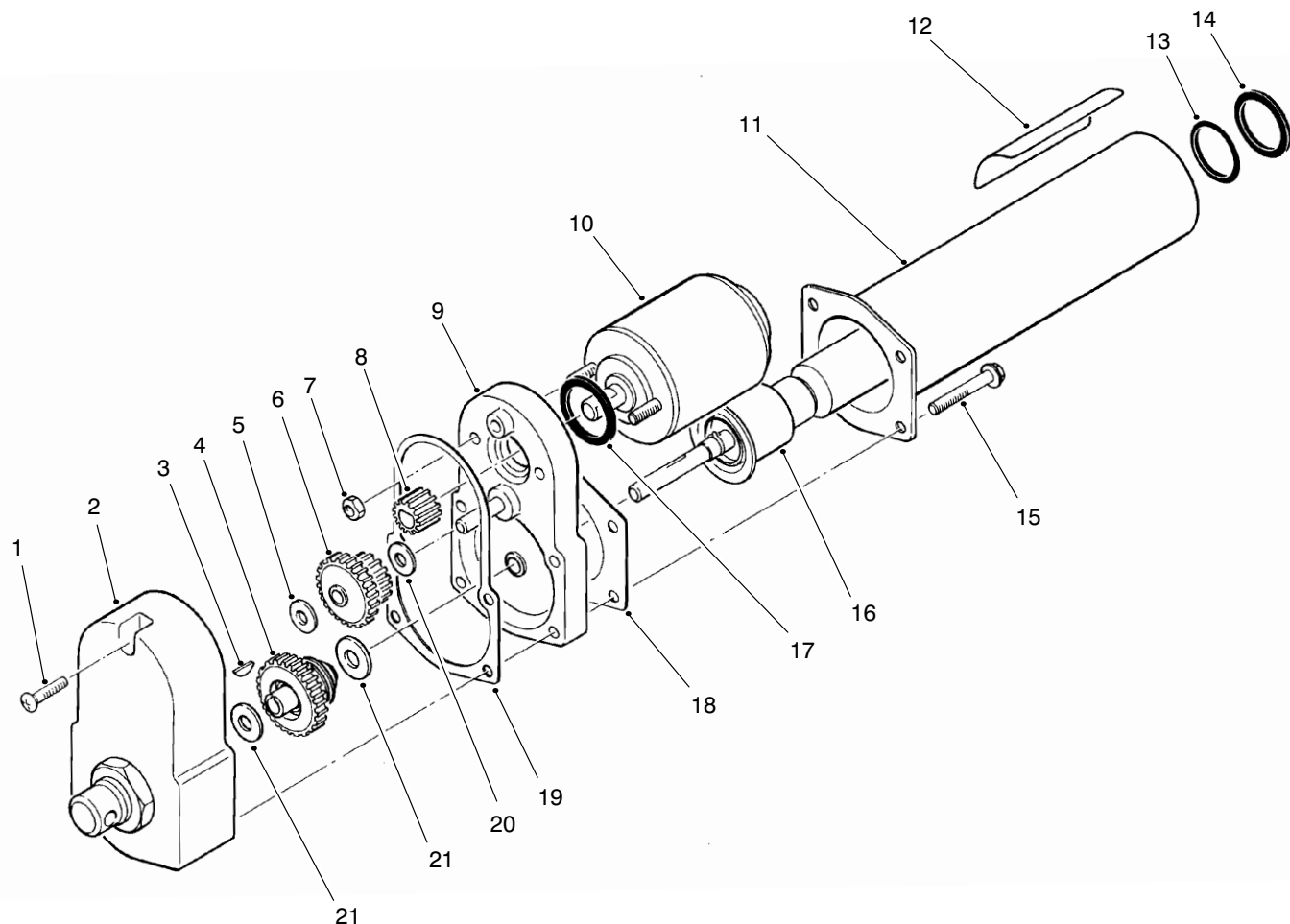
Ref. No.	Part No.	Description	No. Used
1	80-5600	Spool - Valve	1
2	86-9070	Seat - Valve	1
3	80-5780	O-Ring	1
5	80-8460	O-Ring	1
6	80-8470	Ring - Support	1
7	86-8310	Sleeve - Plunger	1
8	14-7449	Body - Valve	1
11	80-9750	Valve - Bleed	1
12	32121-48	Pin - Roll	1
13	3274-83	Screw - Socket Hd.	6
14	32151-99	Ring - Retaining	1
15	80-5570	Retainer - Valve Spring	1
16	80-5770	Spring - Compression	1
17	256-315	Bushing - Sleeve	1
18	80-5590	Pilot - Gear Box	1
19	80-9200	Seal - Back-Up	1
20	253-168	Seal - Oil	1
21	32120-37	Ring - Retaining	1
22	3220-23	Nut - Jam	1

Ref. No.	Part No.	Description	No. Used
23	86-8320	Washer - Slotted	1
24	237-178	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
36	237-173	O-Ring	1
37	80-5782	O-Ring	1
38	255-13	Ball - Steel	1
*	80-9660	Kit-Rebuild (Incl. Ref. #3-7, 14, 17, 20, 22-24, 26-30, 35-37)	1



REAR AXLE ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	256-268	Bushing - Flange	2	19	86-8690	Shaft - Lift	1
2	86-9030	Tube - Limit	1	20	10-6830	Stud - Drive	8
3	302-5	Fitting - Grease	1	21	80-6580	Asm-Hub (Incl. Ref. #20 & 31)	2
4	80-8270	Bracket - Adjustment	1	22	28-3680	Tire	2
5	80-7870	Spring - Extension	2	23	217-60	Rim - Wheel	2
6	3296-45	Nut - Lock	2	24	242-50	Nut - Lug	8
7	3256-26	Washer - Flat	1	25	3272-13	Pin - Cotter	2
8	80-7970	Tube - Return	1	26	241-119	Cap - Hub	2
9	80-7960	Bracket - Return	1	27	3220-7	Nut - Slotted	2
10	80-8010	Decal - Warning (English)	1	28	93-0309	Washer - Tab	2
10	93-9367	Decal - Warning (Europe)	1	29	232-27	Stem - Valve	2
10	83-6150	Decal - Warning (Japan)	1	30	254-94	Cone - Bearing	4
11	14-5219	Asm-Lift Actuator (Incl. Ref. 10)	1	31	254-72	Cup Bearing	4
12	80-5140	Lever - Lift	1	32	253-129	Seal - Bearing	2
13	32121-66	Pin - Roll	3	33	93-1663	Arm - Lift	2
14	3296-39	Nut - Lock	3	34	80-5560	Asm-Flange Bearing	2
15	325-22	Screw - HH	1	35	325-14	Screw - HH	1
16	3296-29	Nut - Lock	6	36	72-4310	Switch - Ball N.C.	1
17	323-7	Screw - HH	3	37	93-0307	Nut - Retainer	2
18	3230-22	Bolt - Carriage	6				



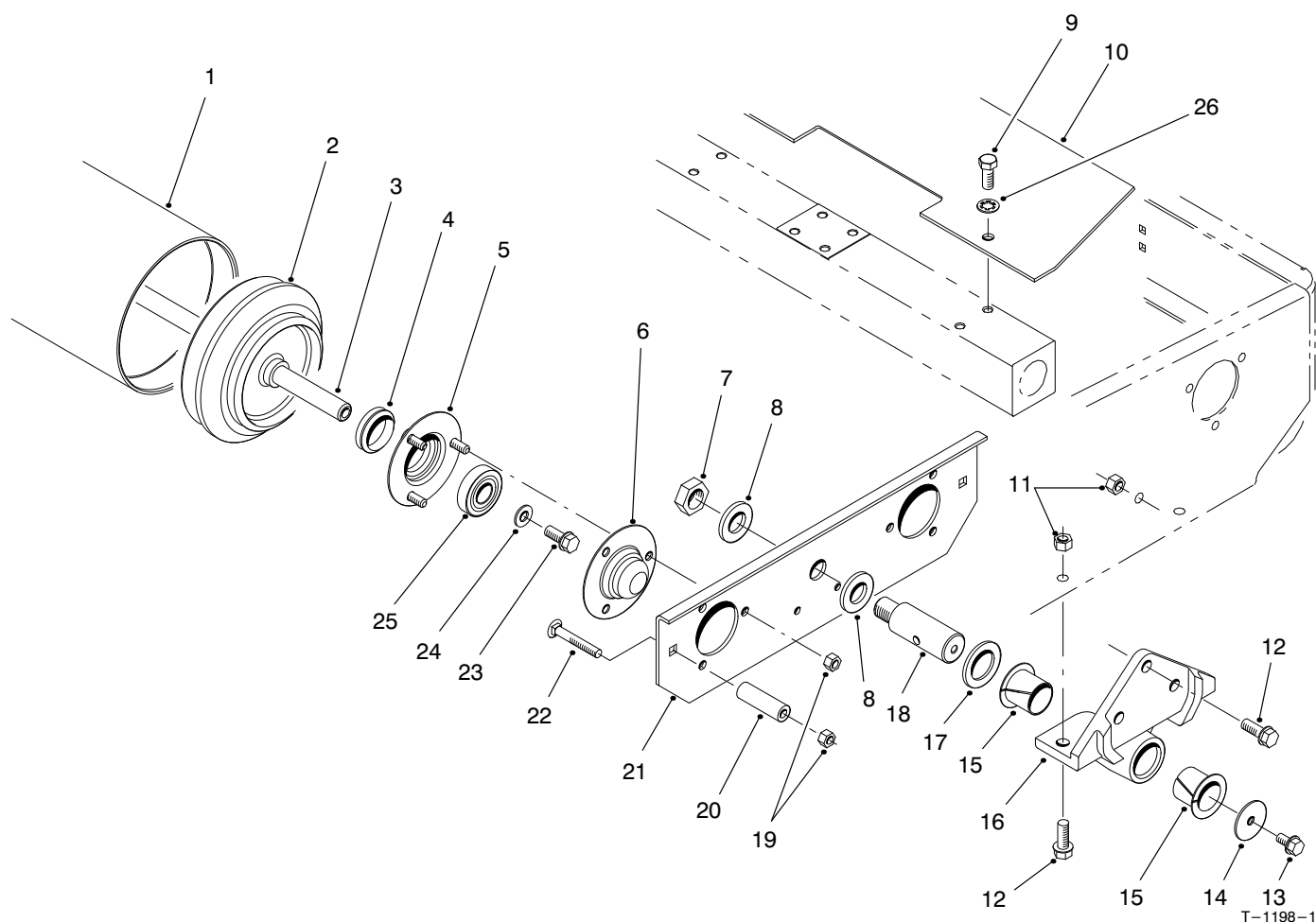
T-1322-1

LIFT ACTUATOR ASSEMBLY NO. 14-5219

Ref. No.	Part No.	Description	No. Used
1		Screw	1
2		Asm-Rear Housing	1
3		Key - Woodruff	1
4	80-5530	Asm-Clutch (Incl. Ref. #3, 4, & 21)	1
5		Washer	1
6		Gear - Intermediate	1
7		Nut - Hex.	2
8		Gear - Motor	1
9		Asm-Front Housing	1
10	80-5540	Asm-Motor (Incl. Ref. #8)	1
11	80-5520	Asm-Cover Tube (Incl. Ref. #13 & 14)	1
12	80-8010	Decal - Warning (English)	1

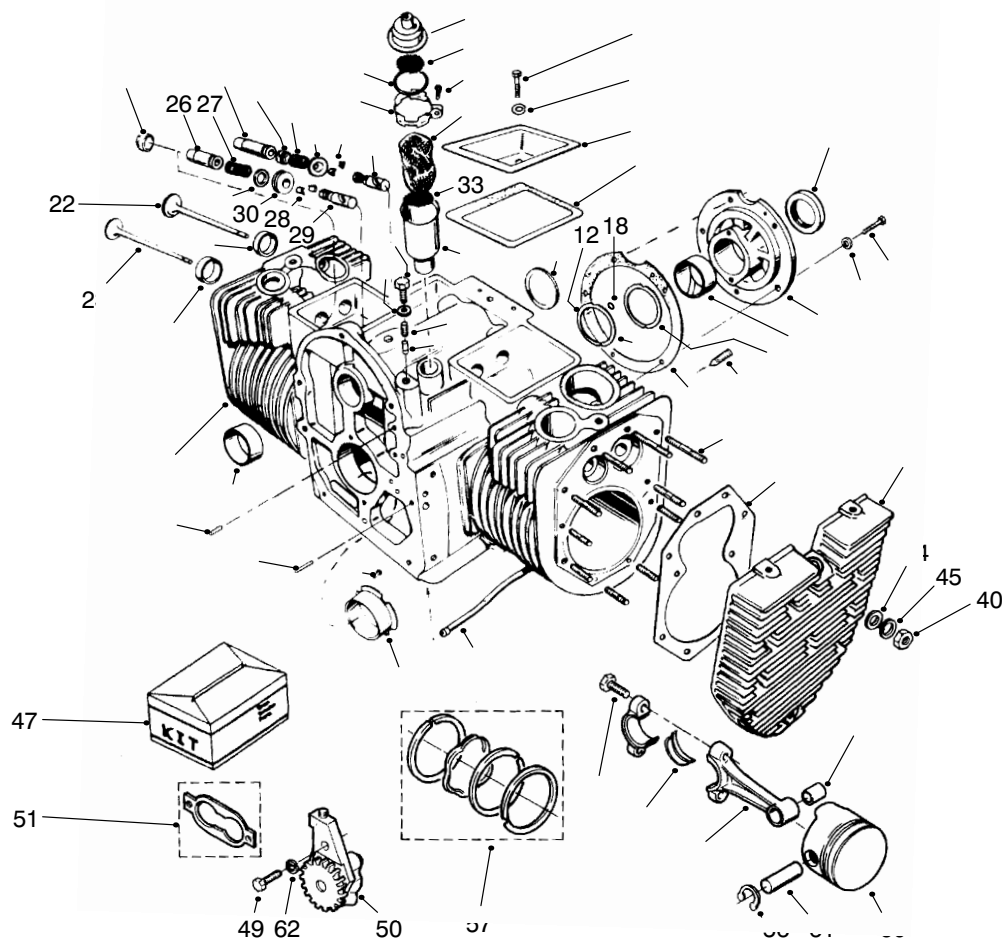
Ref. No.	Part No.	Description	No. Used
12	93-9367	Decal - Warning (Europe)	1
12	83-6150	Decal - Warning (Japan)	1
13		O-Ring	1
14		Seal - Lip	1
15		Screw - HWH	4
16		Asm-Ball Screw & Brake	1
17		Seal - Motor	1
18		Gasket - Tube, Cover	1
19		Gasket - Housing	1
20		Washer	1
21		Washer	2
*	80-5550	Kit-Seal (Incl. Ref. #1, 7, 13-15 & 17-19)	1

* Not Illustrated



ROLLER ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	80-8740	Roller	2	14	3256-68	Washer - Flat	2
2	80-5200	End Cap - Roller	4	15	256-318	Bushing - Nyliner	4
3	80-8730	Shaft - Roller	2	16	80-8330	Pivot - Roller	2
4	253-167	Seal - V	4	17	3-6781	Washer - Thrust	2
5	80-8550	Flange - Bearing	4	18	80-8690	Pin - Pivot	2
6	80-8530	Flange - Bearing	4	19	3296-29	Nut - Lock	16
7	3296-15	Nut - Lock	2	20	80-8720	Stop - Roller	4
8	3256-28	Washer - Flat	4	21	80-8710	Plate - Side	2
9	323-2	Screw - HWH	6	22	3230-8	Bolt - Carriage	4
10	80-9180	Shield - Manifold	2	23	3234-25	Screw - HWH	4
11	3296-39	Nut - Lock	10	24	80-6990	Washer - Thrust	4
12	3234-24	Screw - HWH	10	25	251-351	Bearing - Ball	4
13	3234-14	Screw - HWH	2	26	3254-6	Washer - I.T.L.W.	6



T-1258-1

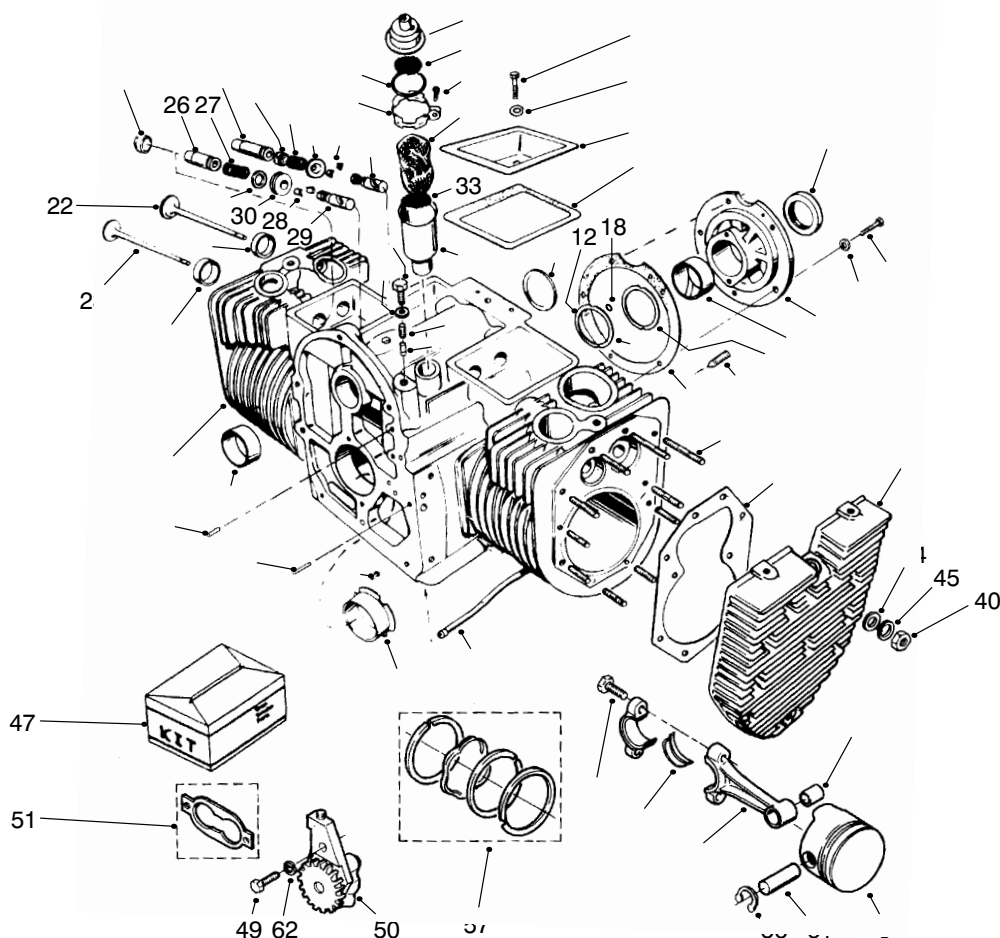
ENGINE CYLINDER BLOCK ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	94-9839	Asm - Short Block	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	Kit - Gasket (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 - HFH	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
*	92-0925	Insert – Intake Valve (.005" OS)	2
*	92-0926	Insert – Intake Valve (.010" OS)	2
*	92-0927	Insert – Intake Valve (.025" OS)	2
†26	82-0140	Guide – Exhaust Valve	2
*	82-0150	Guide – Intake Valve	2
27	57-8250	Spring – Valve	4

* Not Illustrated

† Included in Short Block Assembly.



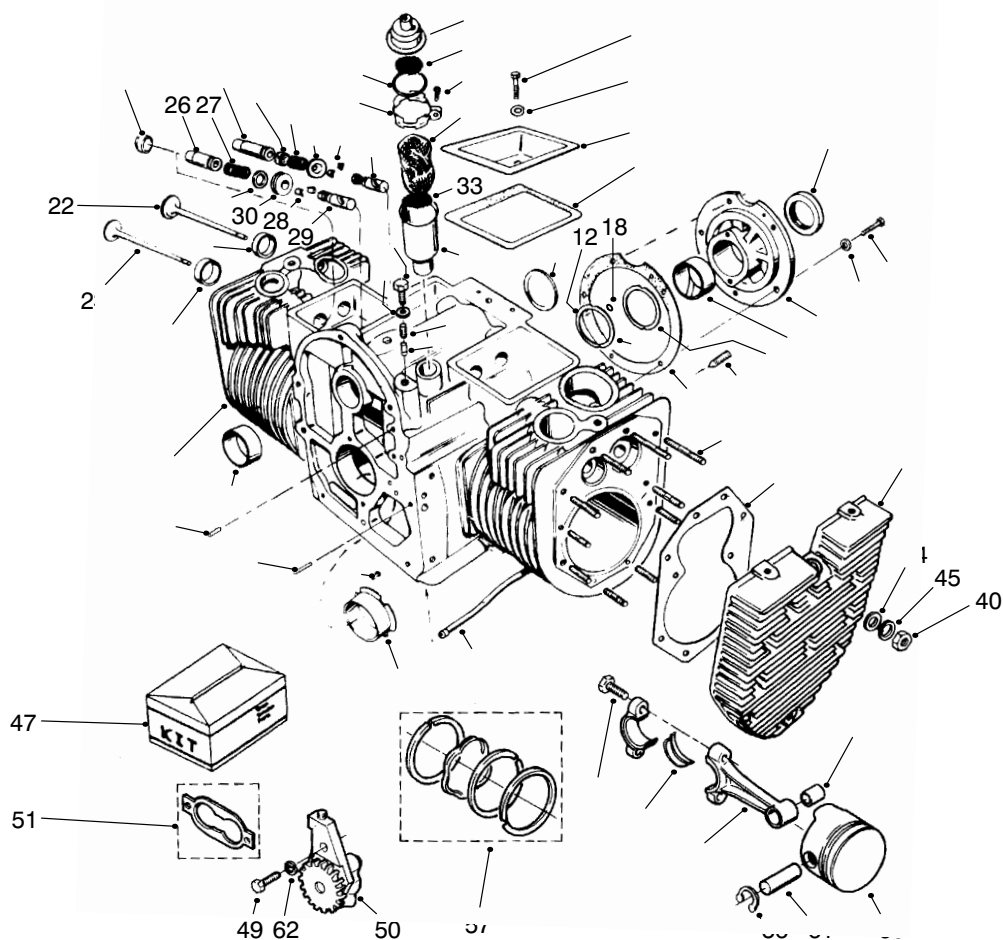
T-1258-1

ENGINE CYLINDER BLOCK ASSEMBLY (Continued)

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
28	82-0250	Lock - Valve Spring	8	†37	57-8020	Bearing - Flanged (Std.)	1
29	57-8450	Tappet - Valve	4	*	57-9360	Bearing - Flanged (.002" US)	1
30	57-8270	Rotator - Valve	2	*	57-8030	Bearing - Flanged (.010" US)	1
31	321-11	Screw - HH	2	*	57-9800	Bearing - Flanged (.020" US)	1
32	82-0530	Clamp - Breather Tube	1	*	59-0010	Bearing - Flanged (.030" US)	1
33	82-0560	Screen - Breather Tube	2	†38	57-8170	Shim - Crankshaft	A/R
34	82-0570	O-Ring	1	†39	59-0750	Pin - Alignment	2
35	82-0420	Bearing Half - Rod (Std.)	4	40	82-0040	Nut - Hex.	20
*	82-0430	Bearing Half - Rod (.002" US)	4	41	82-0410	Bushing - Piston Pin	2
*	82-0440	Bearing Half - Rod (.010" US)	4	42	82-1310	Washer - Flat	5
*	82-0450	Bearing Half - Rod (.020" US)	4	43	82-0240	Cap - Exhaust Valve	2
*	82-0460	Bearing Half - Rod (.030" US)	4	44	82-1300	Washer - Flat	20
†36	92-0928	Stud - Cylinder Head Btm.	8	45	82-1650	Washer - Lock	24
*	92-0929	Stud - Cylinder Head Top	4	46	59-0760	Plug - Hole	1
*	92-0932	Stud - Cylinder Head Mid.	8	47	82-0950	Kit - Gasket (Engine)	1
				48	82-0070	Washer - Spring Retainer	2
				49	321-6	Screw - HH	2
				50	82-1280	Asm - Oil Pump	1
				51	57-8460	Kit - Gasket - Oil Pump	1
				52	57-8500	Spring - Bypass Valve	1
				53	57-8470	Plunger - Bypass Valve	1
				54	59-0910	Screw - HH	1

* Not Illustrated

† Included in Short Block Assembly.



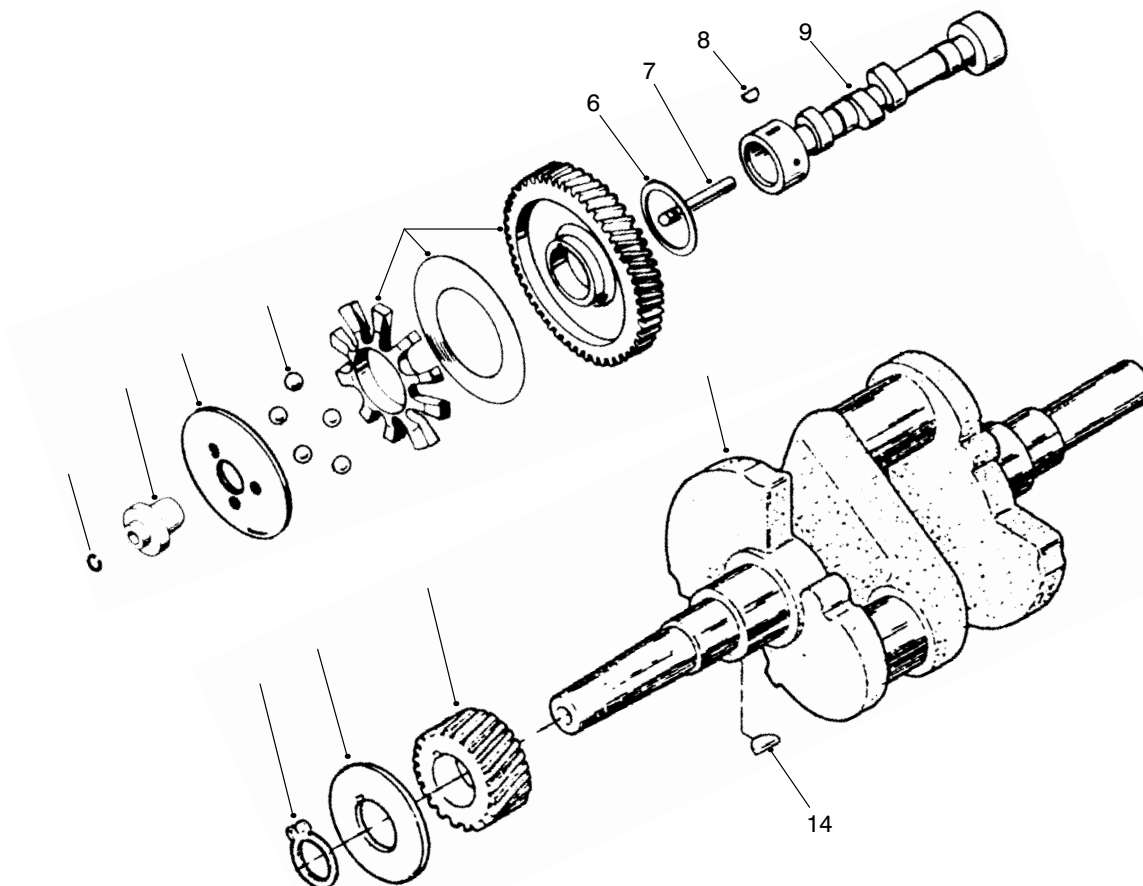
T-1258-1

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	92-0939	Piston Ring Set (Std.)	2
*	92-0940	Piston Ring Set (.005" OS)	2
*	82-0380	Piston Ring Set (.010" OS)	2
*	82-0390	Piston Ring Set (.020" OS)	2
*	82-0400	Piston Ring Set (.030" OS)	2
58	82-0470	Asm-Connecting Rod (Incl. Ref. #41 & 59)	2
59	82-1470	Bolt - Connecting Rod	4

Ref. No.	Part No.	Description	No. Used
60	82-0300	Asm-Piston (Std.) (Incl. Ref. #56 & 61)	2
*	92-0934	Asm-Piston (.005" OS) (Incl. Ref. #56 & 61)	2
*	92-0935	Asm-Piston (.010" OS) (Incl. Ref. #56 & 61)	2
*	92-0936	Asm-Piston (.020" OS) (Incl. Ref. #56 & 61)	2
*	92-0937	Asm-Piston (.030" OS) (Incl. Ref. #56 & 61)	2
61	92-0938	Pin - Piston	2
62	82-1620	Washer - Lock	2
63	3247-4	Screw - Set	4
*	59-0770	Breather Hole Plug	1

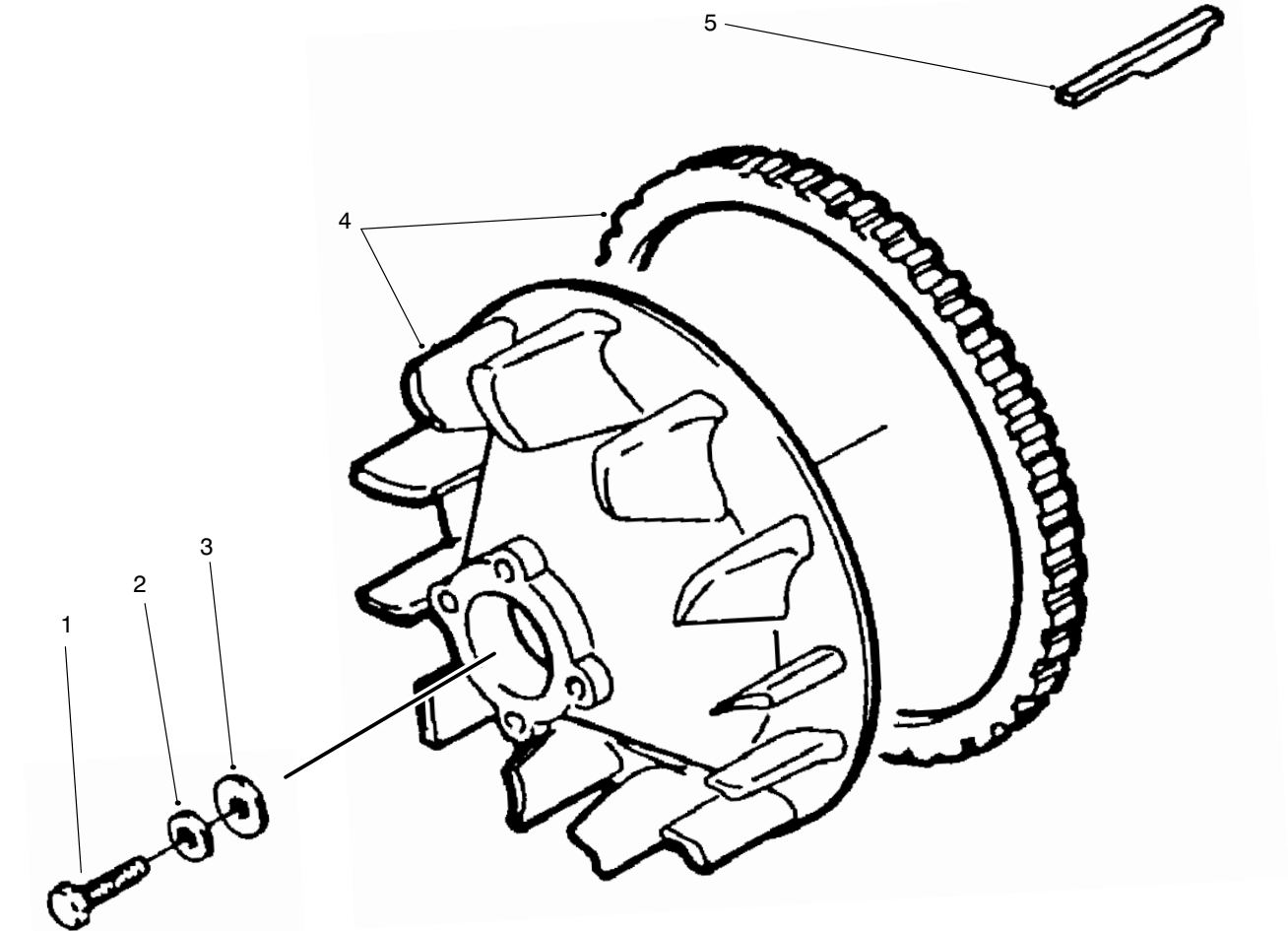
* Not Illustrated



T-1259-1

ENGINE CAMSHAFT & CRANKSHAFT ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	57-9090	Ring - Retaining	1	9	82-0880	Camshaft (Incl. Ref. #7)	1
2	57-9130	Hub - Governor Cup	1	10	82-0060	Crankshaft	1
3	59-0450	Cup - Governor	1	11	92-0941	Gear - Crankshaft	1
4	57-9640	Ball - Governor	5	12	57-8140	Washer - Gear Retaining	1
5	57-8210	Asm - Camshaft Gear	1	13	57-9710	Ring - Retaining	1
6	57-8230	Washer - Thrust	1	14	57-9660	Key - Crankshaft Gear	1
7	59-0400	Pin - Center	1				
8	57-9660	Key - Woodruff	1				

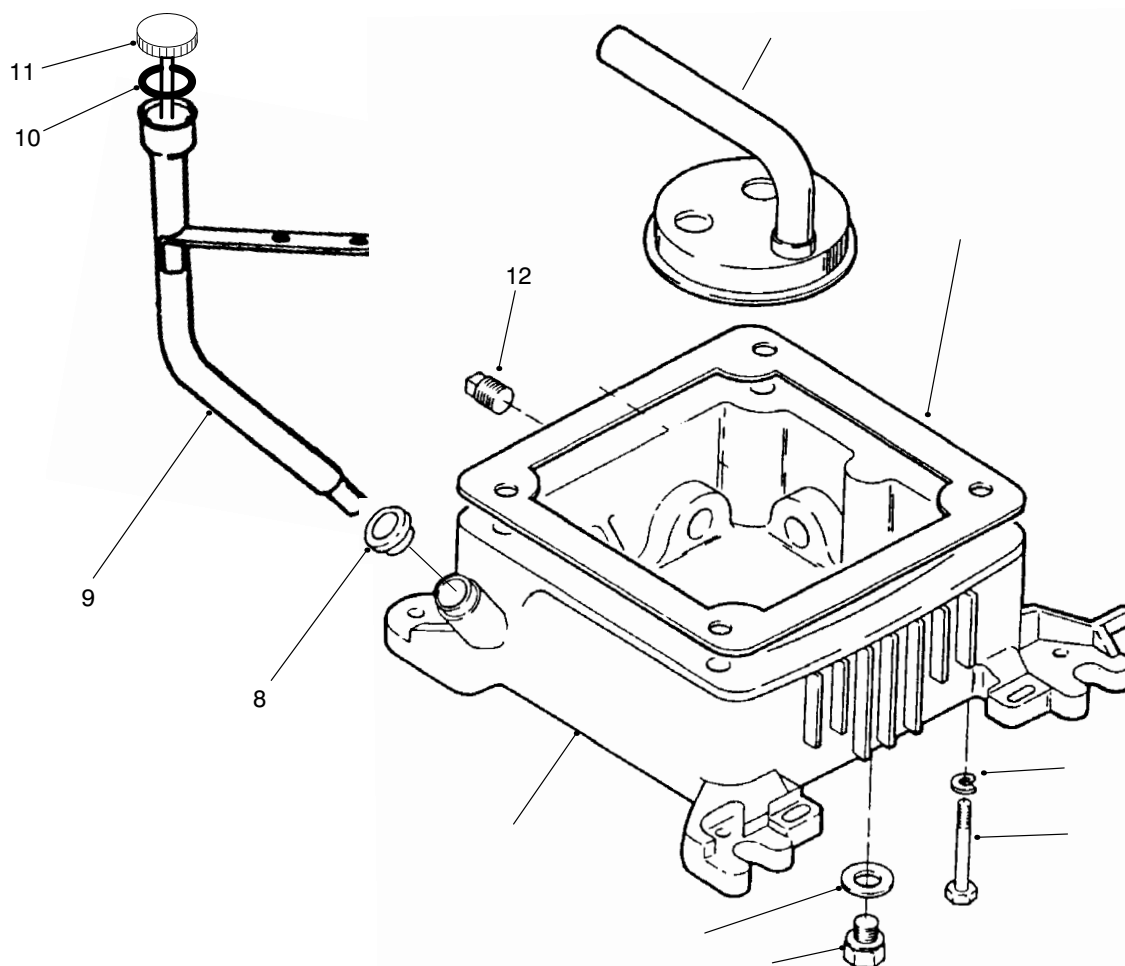


T-1260-1

ENGINE FLYWHEEL ASSEMBLY

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

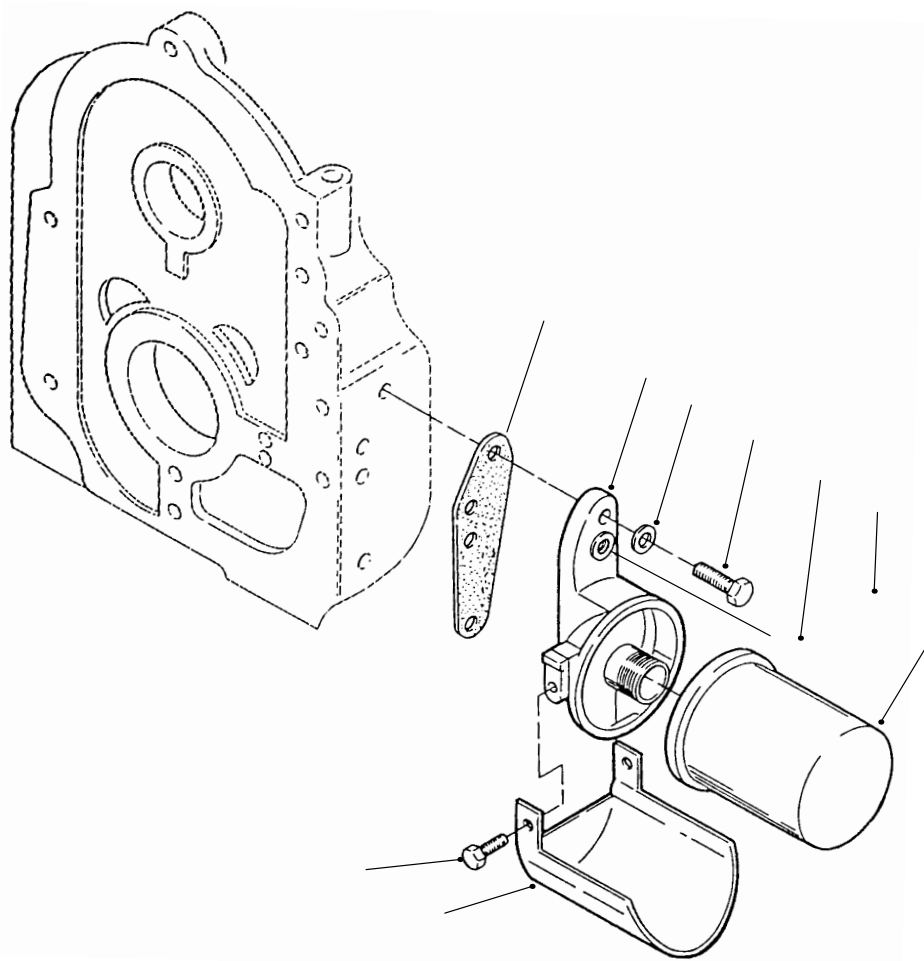
Ref. No.	Part No.	Description	No. Used
4	82-0610	Flywheel	1
5	71-6190	Key - Flywheel	1



T-1261-1

ENGINE OIL BASE ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	92-0944	Cup - Oil Pump Intake	1	8	71-6170	Seal - Oil Fill Tube	1
2	82-0900	Gasket - Oil Base	1	9	92-0947	Tube - Oil Fill	1
3	82-1310	Washer - Flat	4	10	57-9610	O-Ring	1
4	323-25	Screw - HH	4	11	82-0590	Asm-Dipstick (Incl. Ref. #10)	1
5	281-2	Plug - Hex. Hd.	1	12	92-0943	Plug - Pipe	1
6	57-8070	Gasket - Plug	1				
7	92-0942	Asm-Oil Base (Incl. Ref. #2, 5, 6 & 12)	1				

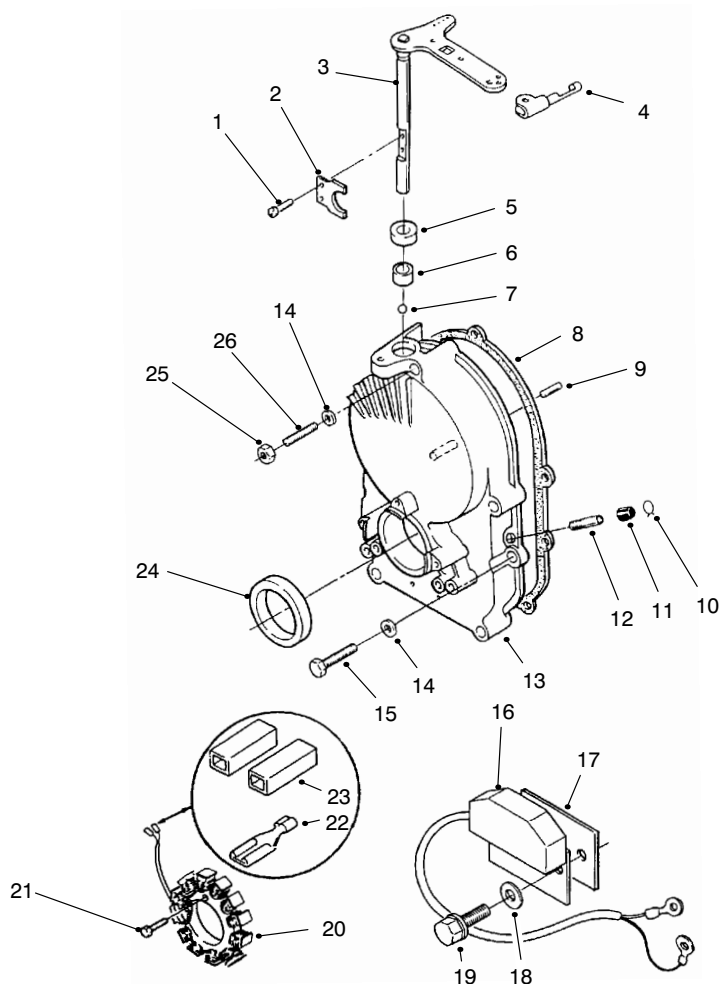


T-1262-1

ENGINE OIL FILTER ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	79-6470	Gasket – Oil Filter Adaptor	1
2	82-0500	Adapter – Oil Filter	1
3	57-9750	Washer – Flat	2
4	322-5	Screw – HH	2
5	59-0640	Fitting – 45° Elbow	1

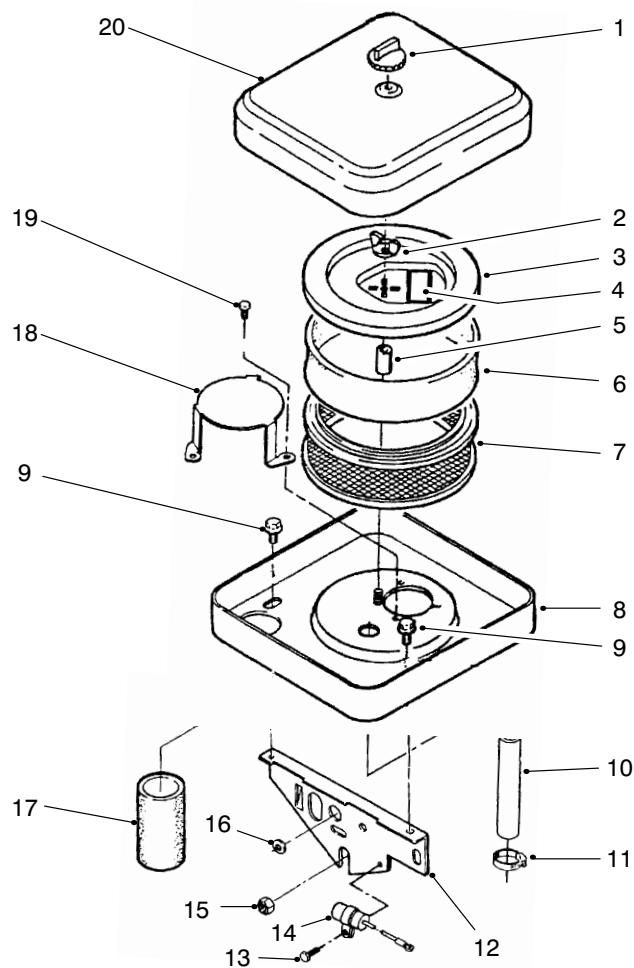
Ref. No.	Part No.	Description	No. Used
6	57-9490	Switch – Low Oil Pressure	1
7	57-8530	Filter – Oil	1
8	82-0510	Drain – Oil Filter	1
9	82-1510	Screw – HH	2



T-1263-1

ENGINE IGNITION CONTROL ASSEMBLY

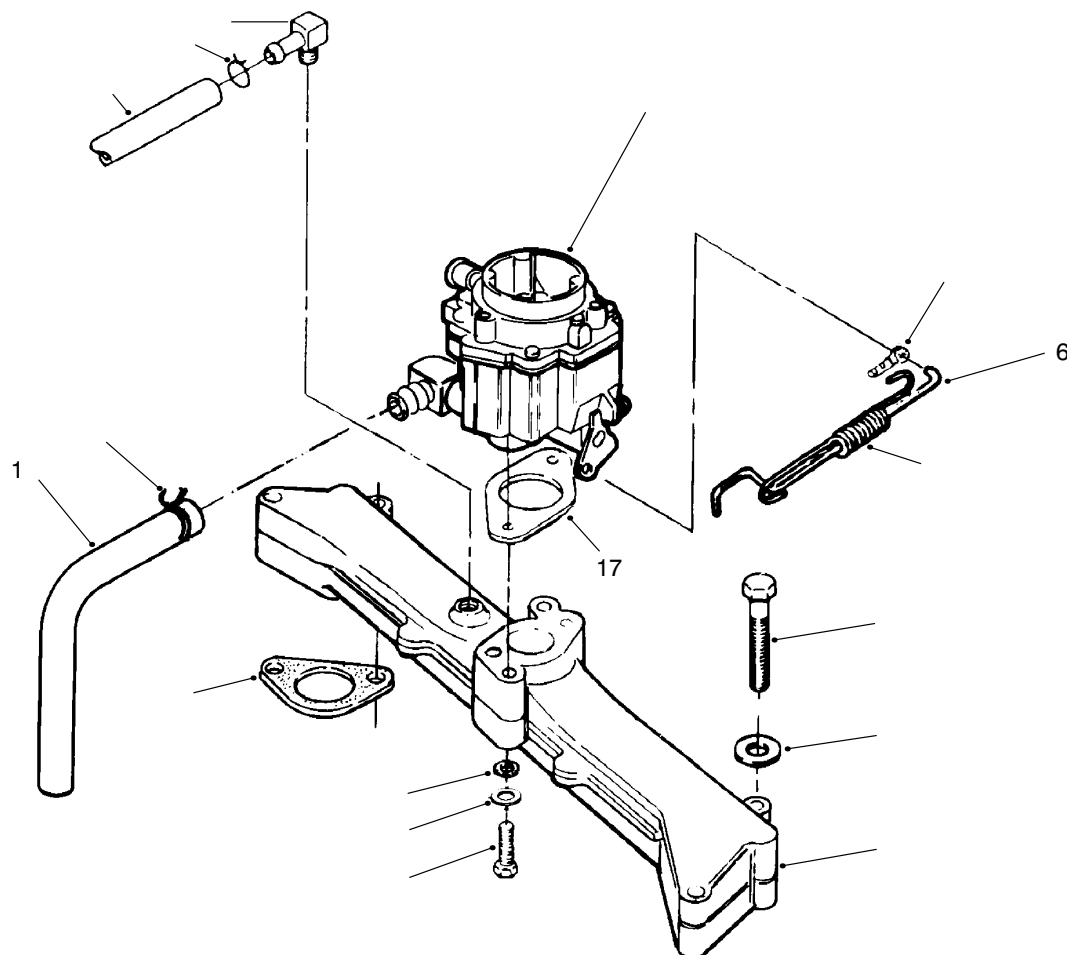
Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	59-0950	Screw – PH	2	14	57-9750	Washer – Flat	5
2	59-0420	Yoke – Governor Shaft	1	15	322-9	Screw – HH	4
3	59-0440	Shaft/Arm – Governor	1	16	71-6380	Control – Ignition	1
4	57-9730	Clip – Retaining	1	17	71-6410	Insulator – Ignition Module	1
5	57-9570	Seal – Governor Shaft	1	18	82-1660	Washer – Lock	2
6	57-9650	Bearing – Governor Shaft	1	19	71-6400	Screw – HWH	2
7	57-9630	Ball – Governor Shaft	1	20	57-9440	Stator – 20 Amp.	1
8	82-0910	Gasket – Gear Case	1	21	71-6390	Screw – HH	3
9	59-0740	Pin – Dowel	1	22	59-0590	Terminal – Stator Leads	3
10	57-9550	Clamp – Cap	1	23	82-1000	Body – Terminal Connector	2
11	59-0370	Cap – Vacuum Port	1	24	57-9580	Seal – Crankshaft	1
12	59-0360	Tube – Vacuum Port	1	25	59-1130	Nut – Hex.	1
13	71-6350	Asm–Gear Case (Incl. Ref. #1-3, 5-7, 9-12 & 24)	1	26	59-0790	Stud – Cover	1



T-1264-1

ENGINE AIR CLEANER ASSEMBLY

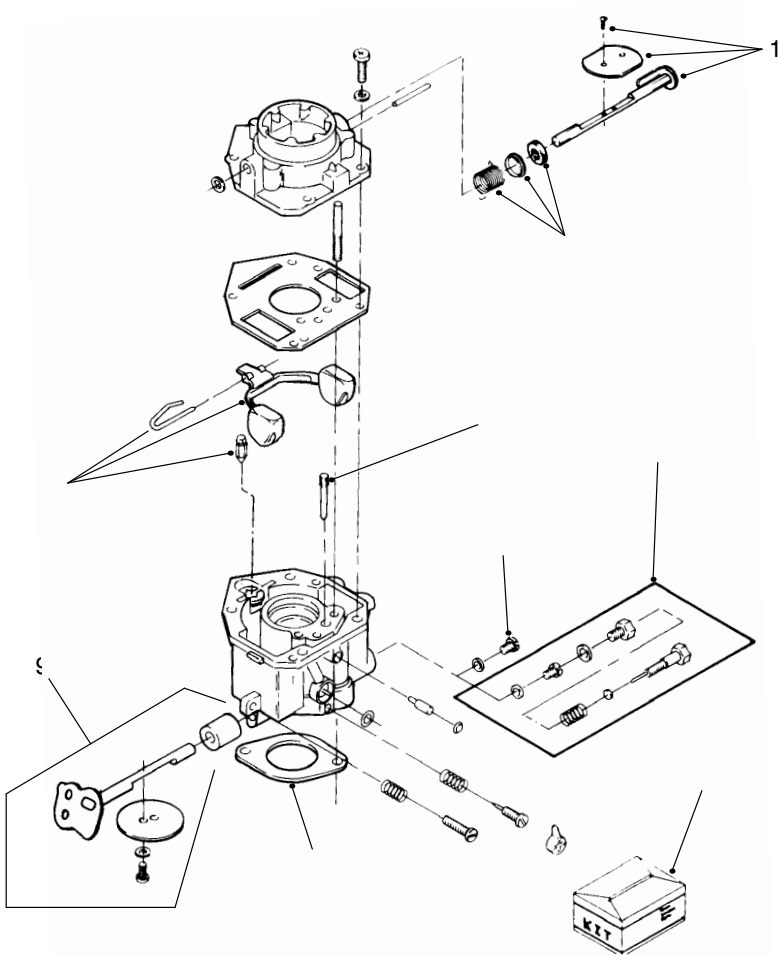
Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	82-1760	Knob	1	11	82-1090	Clamp - Hose	1
2	82-1670	Nut - Wing	1	12	82-0720	Support - Air Cleaner	1
3	82-0650	Cover - Inner	1	13	71-6450	Screw - HH	1
4	82-0010	Decal - Air Cleaner Maint.	1	14	59-1180	Condenser	1
5	82-0980	Spacer/Seal	1	15	82-1690	Nut - HWH	1
6	82-0670	Wrapper - Element	1	16	71-6140	Grommet - Rubber	1
7	82-0660	Element - Air Cleaner	1	17	82-0700	Tube - Air Intake	1
8	82-0710	Housing - Air Cleaner	1	18	92-0946	Plate - Air Deflector	1
9	82-1550	Screw - Tapping	2	19	82-1770	Screw - HWH	3
10	92-0945	Hose - Breather	1	20	82-0690	Cover - Air Cleaner	1



T-1265-1

ENGINE FUEL SYSTEM ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	82-1120	Hose - Breather	1	9	82-1310	Washer - Flat	4
2	82-1090	Clamp - Hose	1	10	82-0670	Manifold - Intake	1
3	82-1070	Fitting - 90° Elbow	1	11	322-12	Screw - HH	2
4	93-1676	Asm - Carburetor (Incl. Ref. #17)	1	12	82-1350	Washer - Flat	2
5	57-9700	Clip - Retaining	1	13	82-1340	Washer - Flat	2
6	82-0840	Rod - Governor Control	1	14	82-0860	Gasket - Manifold	2
7	82-1740	Spring - Governor Rod	1	15	82-1100	Hose - Fuel (Cut to 15")	1
8	323-14	Screw - HH	4	16	82-1080	Clamp - Hose	2
				17	82-0850	Gasket - Carburetor	1



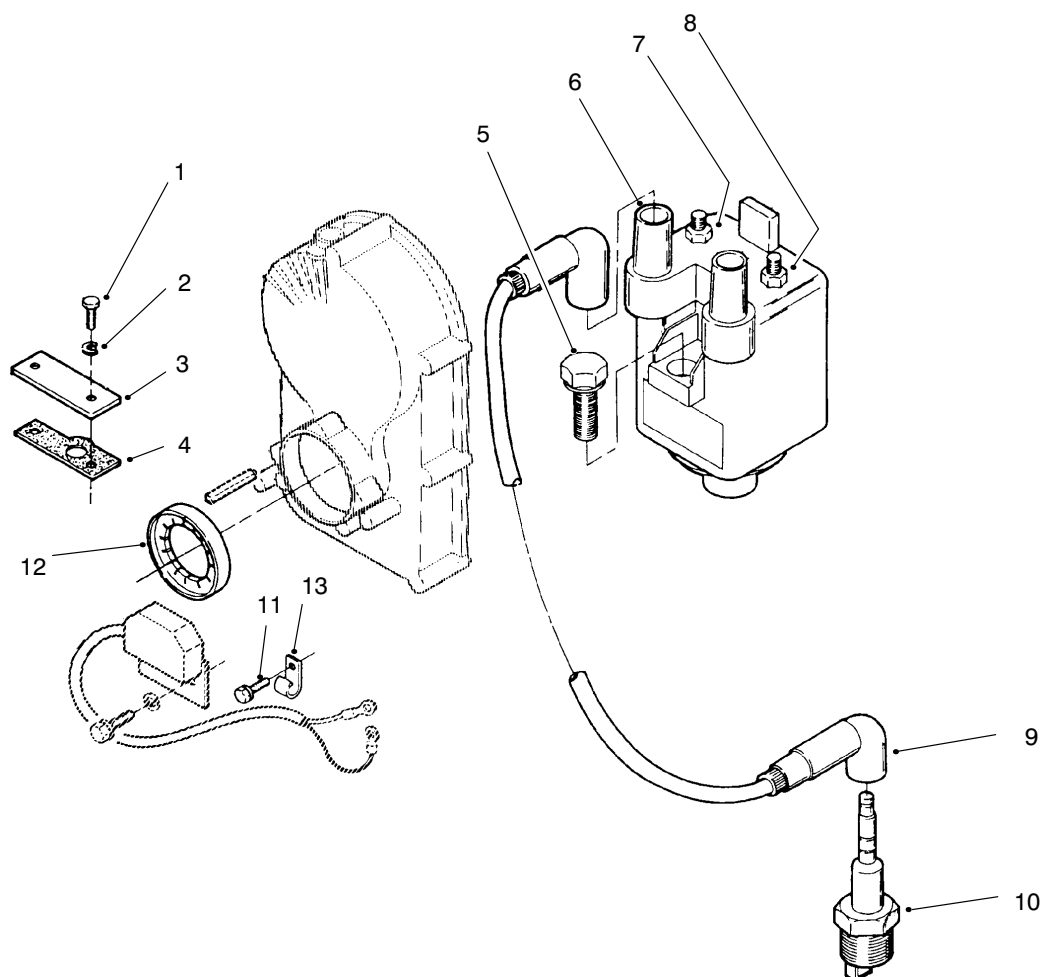
T-1266-2

ENGINE CARBURETOR ASSEMBLY NO. 93-1676

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
6	82-0740	Kit-Jet (High Altitude Application)	1

Ref. No.	Part No.	Description	No. Used
7	93-1677	Kit-Carburetor Repair (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	Asm-Float	1

* Not Illustrated

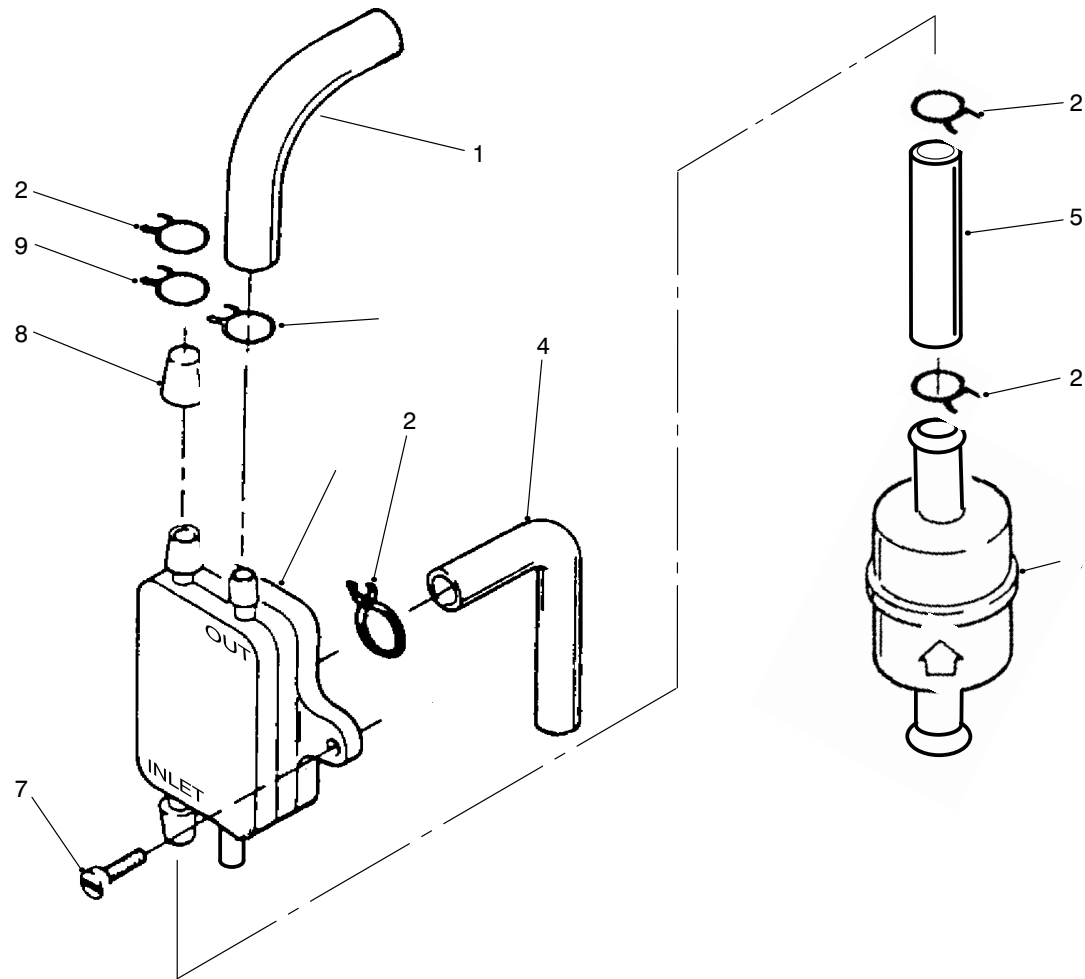


T-1267-1

ENGINE ELECTRONIC IGNITION ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	321-3	Screw - HH	2	8	71-6430	Hut - HF	1
2	82-1340	Washer - Flat	2	9	71-6420	Cable - Spark Plug (9")	1
3	71-5990	Plate - Ignition Plunger	1	*	71-6020	Cable - Spark Plug (18.5")	1
4	57-9260	Gasket - Plate	1	10	57-9340	Plug - Spark	2
5	71-6460	Screw - HFH	2	11	71-6450	Screw - HFH	1
6	71-6000	Coil - Ignition	1	12	71-6010	Rotor - Ignition	1
7	71-6440	Nut - HF	1	13	71-6220	Clip - Wire	1

* Not Illustrated

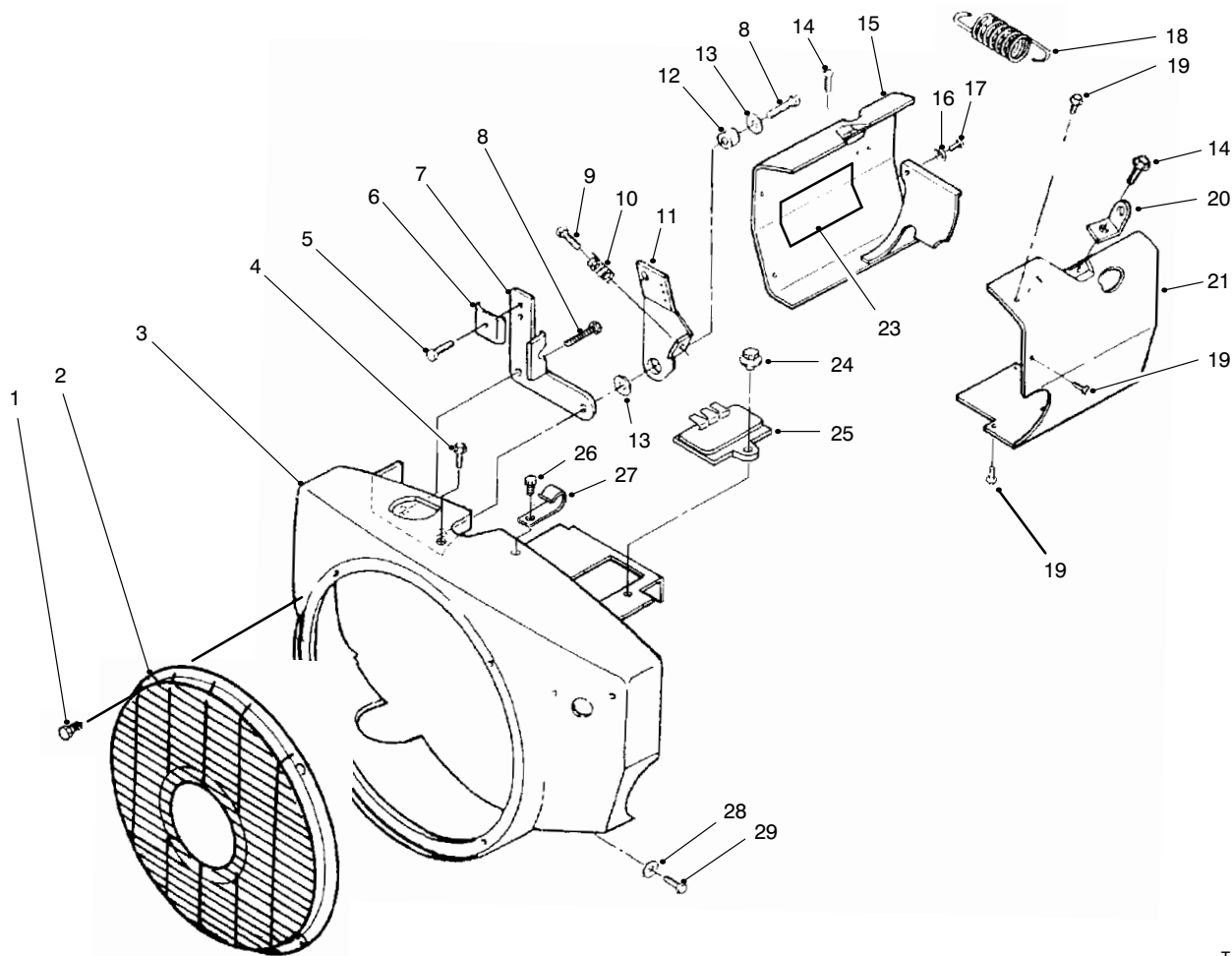


T-1268-1

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

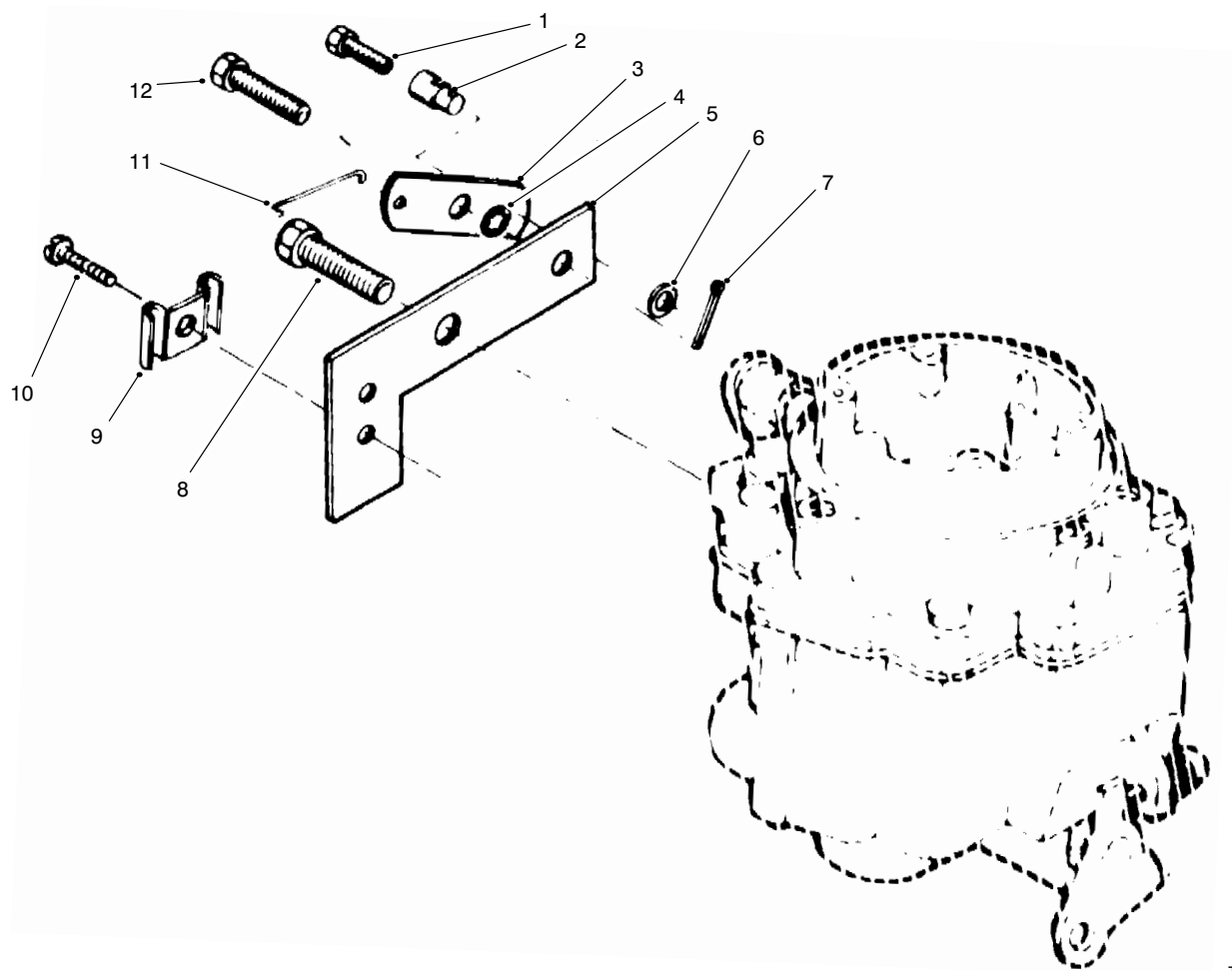
Ref. No.	Part No.	Description	No. Used
6	71-5960	Filter - Fuel	1
7	59-1050	Screw - Tapping Pan Hd.	2
8	59-0370	Fitting - Cap	1
9	57-9550	Clamp - Hose	1



T-1269-1

ENGINE HOUSING ASSEMBLY

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	82-1590	Screw - PH	4	16	59-0830	Washer - Flat	2
2	82-0620	Guard - Stationary	1	17	59-0980	Screw - Tapping	2
3	92-0948	Housing - Blower	1	18	57-9100	Spring - Governor	1
4	59-1100	Screw - HWH	2	19	59-1080	Screw - HWH	4
5	72-3900	Screw - Tapping	1	20	71-6080	Bracket - Lifting	2
6	57-9190	Clamp - Cable	1	21	92-0950	Housing - Cylinder RH	1
7	57-9150	Bracket - Cable	1	23	82-1580	Decal - Head Bolt Torque	2
8	59-1010	Screw - HWH	2	24	59-1080	Screw - HFH	1
9	59-1030	Screw - Tapping	1	25	71-6030	Regulator - Voltage (20 Amp.)	1
10	59-0430	Spring - Idle Setting	1	26	82-1540	Screw - HWH	1
11	57-9140	Arm - Governor Control	1	27	71-6220	Clip - Wire	1
12	57-9120	Bushing - Control Arm	1	28	59-0820	Washer - Flat	4
13	59-0830	Washer - Flat	2	29	82-1780	Screw - HWH	3
14	82-1600	Screw - HWH	2				
15	92-0949	Housing - Cylinder LH	1				

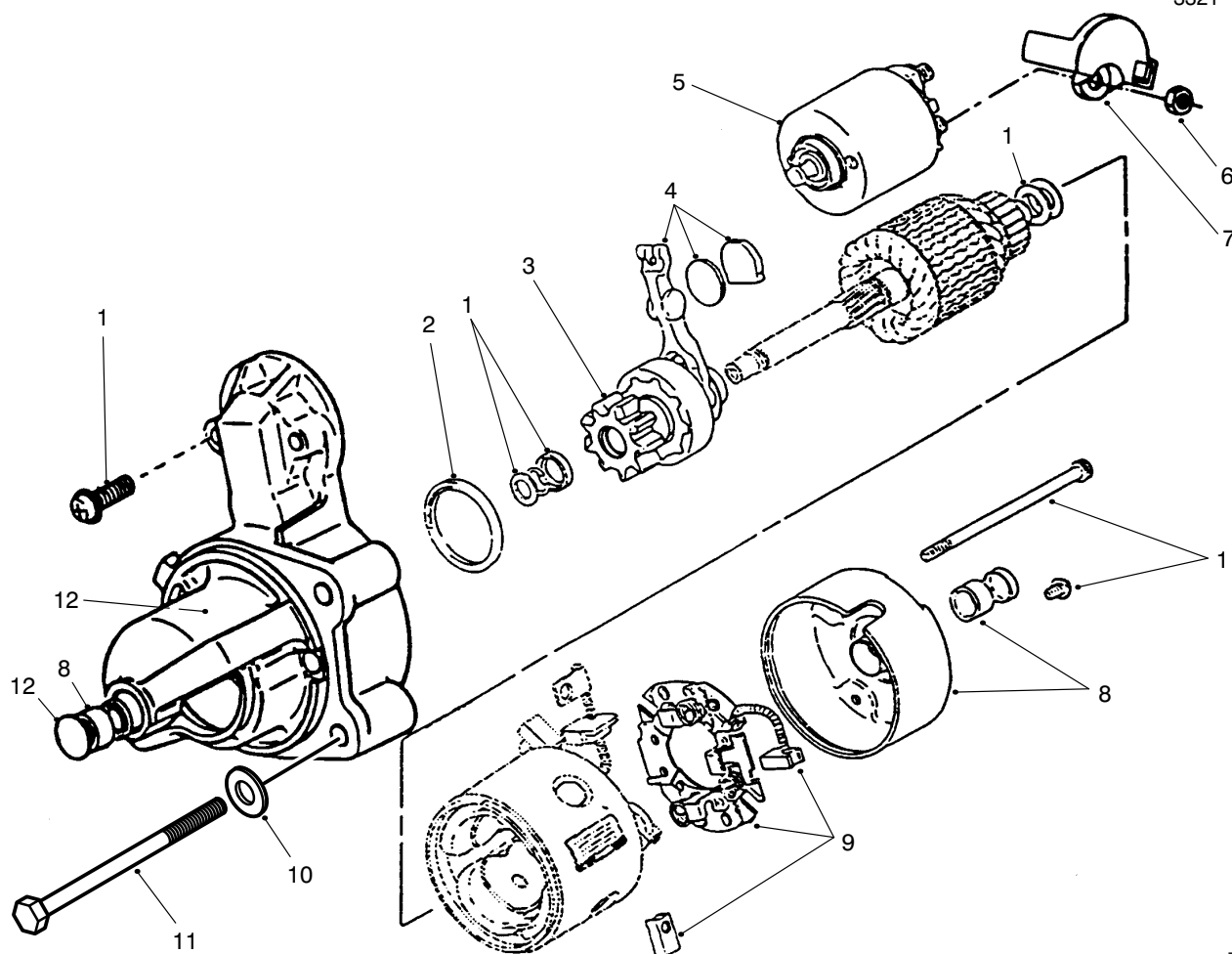


T-1270-1

ENGINE CHOKE CONTROL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	72-3890	Screw - HH	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 - HWH	1
9	57-9190	Clip - Choke Cable	1
10	72-3900	Screw - HWH	1
11	57-9180	Link - Choke	1
12	59-1020	Screw - Shoulder	1

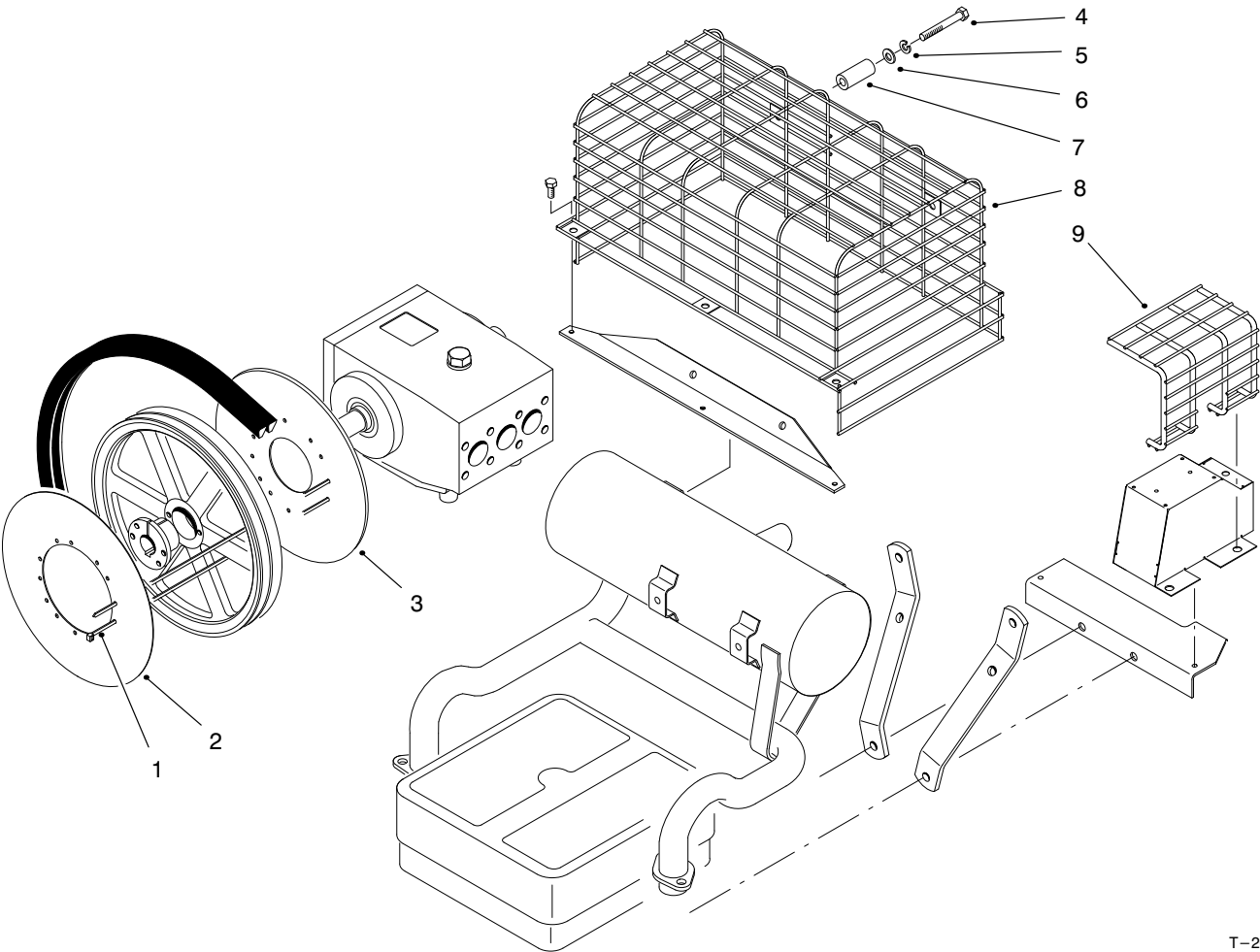


T-2509

ENGINE STARTER ASSEMBLY NO. 71-6040

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	62-2760	Kit-Starter Hardware	1	8	62-2730	Kit-Starter Bushing	1
2	72-3950	Kit-Dust Seal	1	9	62-2740	Kit-Starter Brush	1
3	72-3940	Kit-Starter Clutch	1	10	57-9770	Washer - Mounting Screw	2
4	62-2770	Kit-Starter Shift Lever	1	11	322-22	Screw - Mounting	2
5	72-3930	Kit-Starter Solenoid	1	12	62-2750	Kit-Brush Mounting	1
6	82-1730	Nut - Hex.	1	*	71-6040	Asm-Starter (Incl. Ref. #1-10)	1
7	82-1720	Cap - Solenoid	1				

* Not Illustrated



T-2031-1

SHIELD ASSEMBLY (Europe)

Ref. No.	Part No.	Description	No. Used
1	3290-378	Tie - Cable	6
2	93-1672	Shield - Pulley	1
3	93-1673	Shield - Pulley	1
4	322-11	Screw - HH	2
5	3253-4	Washer - Lock	2

Ref. No.	Part No.	Description	No. Used
6	3256-23	Washer - Flat	2
7	93-1671	Tube - Spacer	2
8	93-1669	Shield - Muffler	1
9	93-1670	Shield - Exhaust	2

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Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
3-6498	Washer - Thrust	20 12 1	57-9550	Clamp - Hose	46 9 1
3-6781	Washer - Thrust	33 17 2	57-9570	Seal - Governor Shaft	41 5 1
7-0238	Key - Clutch	15 4 1	57-9580	Seal - Crankshaft	41 24 1
10-6830	Stud - Drive	31 20 8	57-9590	Seal - Oil	34 17 1
10-6830	Stud - Drive	3 25 4	57-9610	O-Ring	39 10 1
10-6850	Drum - Brake	3 18 1	57-9630	Ball - Governor Shaft	41 7 1
10-6870	Hub - Wheel	3 19 1	57-9640	Ball - Governor	37 4 5
14-4179	Hood	8 6 1	57-9650	Bearing - Governor Shaft	41 6 1
14-4189	Tank - Fuel	5 4 1	57-9660	Key - Crankshaft Gear	37 14 1
14-5169	Shield - Drive	15 38 1	57-9660	Key - Woodruff	37 8 1
14-5199	Cover - Control	1 6 1	57-9700	Clip - Retaining	43 5 1
14-5209	Mount - Pump	20 6 1	57-9710	Ring - Retaining	37 13 1
14-5219	Asm-Lift Actuator	31 11 1	57-9730	Clip - Retaining	41 4 1
14-5229	Guard - Muffler	14 11 1	57-9740	Washer - Flat	34 20 2
14-5239	Guard - Muffler L.H.	14 19 1	57-9750	Washer - Flat	40 3 2
14-5249	Guard - Muffler R.H.	14 * 1	57-9750	Washer - Flat	41 14 5
14-5259	Asm-Valve	12 36 1	57-9760	Washer - Flat	36 55 1
14-5289	Head - Pump	25 11 1	57-9770	Washer - Mounting Screw	49 10 2
14-7449	Asm-Valve	26 17 1	57-9800	Bearing - Flanged	35 * 1
14-7449	Body - Valve	30 8 1	59-0010	Bearing - Flanged	35 * 1
26-3790	Nut - Spindle	3 22 1	59-0020	Bearing - Crank (.002 US)	34 * 1
27-2360	Switch - Ignition	12 41 1	59-0030	Bearing - Crank (.020 US)	34 * 1
28-3680	Tire	3 20 1	59-0040	Bearing - Crank (.030 US)	34 * 1
28-3680	Tire	31 22 2	59-0360	Tube - Vacuum Port	41 12 1
29-6162	Switch - Micro	20 31 2	59-0370	Cap - Vacuum Port	41 11 1
40-8200	Switch - Micro	2 34 1	59-0370	Fitting - Cap	46 8 1
42-3560	Bolt - Shoulder	23 12 1	59-0400	Pin - Center	37 7 1
42-3560	Bolt - Shoulder	13 28 2	59-0420	Yoke - Governor Shaft	41 2 1
44-8320	Spring - Compression	16 2 3	59-0430	Spring - Idle Setting	47 10 1
52-5980	Spacer	14 36 2	59-0440	Shaft/Arm - Governor	41 3 1
56-2230	Hose - Fuel	5 11 1	59-0450	Cup - Governor	37 3 1
56-2241	Hose - Fuel	5 7 1	59-0460	Lever - Choke	48 3 1
56-2241	Hose - Fuel	14 30 1	59-0470	Bracket - Choke Cable	48 5 1
56-2520	Valve - Fuel Shut-Off	5 9 1	59-0590	Terminal - Stator Leads	41 22 3
57-8000	Bearing - Camshaft	34 16 2	59-0640	Fitting - 45° Elbow	40 5 1
57-8010	Gasket - Bearing Plate	34 14 1	59-0720	Pin - Cotter	48 7 1
57-8020	Bearing - Flanged (Std.)	35 37 1	59-0730	Pin - Bearing Stop	34 18 4
57-8030	Bearing - Flanged	35 * 1	59-0740	Pin - Dowel	41 9 1
57-8050	Bearing - Crank (Std.)	34 12 1	59-0750	Pin - Alignment	35 39 2
57-8060	Bearing - Crank (.010 US)	34 * 1	59-0760	Plug - Hole	35 46 1
57-8070	Gasket - Plug	39 6 1	59-0770	Breather Hole Plug	36 * 1
57-8140	Washer - Gear Retaining	37 12 1	59-0790	Stud - Cover	41 26 1
57-8150	Screw - HH	38 1 1	59-0810	Washer - Flat	38 3 1
57-8160	Washer - Thrust	34 13 2	59-0820	Washer - Flat	47 28 4
57-8170	Shim - Crankshaft	35 38 A/R	59-0830	Washer - Flat	47 13 2
57-8210	Asm-Camshaft Gear	37 5 1	59-0830	Washer - Flat	47 16 2
57-8230	Washer - Thrust	37 6 1	59-0850	Washer - Flat	48 6 2
57-8250	Spring - Valve	34 27 4	59-0910	Screw - HH	35 54 1
57-8270	Rotator - Valve	35 30 2	59-0950	Screw - PH	41 1 2
57-8450	Tappet - Valve	35 29 4	59-0980	Screw - Tapping	47 17 2
57-8460	Kit-Gasket - Oil Pump	35 51 1	59-1010	Screw - HWH	47 8 2
57-8470	Plunger - Bypass Valve	35 53 1	59-1020	Screw - Shoulder	48 12 1
57-8500	Spring - Bypass Valve	35 52 1	59-1030	Screw - Tapping	47 9 1
57-8530	Filter - Oil	40 7 1	59-1050	Screw - Tapping Pan Hd.	46 7 2
57-8580	Baffle - Breather Tube	34 4 1	59-1080	Screw - HFH	47 24 1
57-9080	Pump - Fuel	46 3 1	59-1080	Screw - HWH	47 19 4
57-9090	Ring - Retaining	37 1 1	59-1100	Screw - HWH	47 4 2
57-9100	Spring - Governor	47 18 1	59-1130	Nut - Hex.	41 25 1
57-9120	Bushing - Control Arm	47 12 1	59-1180	Condenser	42 14 1
57-9130	Hub - Governor Cup	37 2 1	61-2990	Plate - Back Up	21 60 1
57-9140	Arm - Governor Control	47 11 1	62-2730	Kit-Starter Bushing	49 8 1
57-9150	Bracket - Cable	47 7 1	62-2740	Kit-Starter Brush	49 9 1
57-9170	Swivel - Choke Lever	48 2 1	62-2750	Kit-Brush Mounting	49 12 1
57-9180	Link - Choke	48 11 1	62-2760	Kit-Starter Hardware	49 1 1
57-9190	Clamp - Cable	47 6 1	62-2770	Kit-Starter Shift Lever	49 4 1
57-9190	Clip - Choke Cable	48 9 1	62-2800	Asm-Float	44 10 1
57-9260	Gasket - Plate	45 4 1	63-8360	Key - Ignition	12 9 1
57-9340	Plug - Spark	45 10 2	63-8410	Washer	5 35 4
57-9360	Bearing - Flanged	35 * 1	65-4500	Seal - Snap Ring	4 14 1
57-9440	Stator - 20 Amp.	41 20 1	65-4550	Valve - Check Ball	4 6 2
57-9490	Switch - Low Oil Pressure	40 6 1	65-4560	Plug - Hex. Hollow	4 3 1
57-9550	Clamp - Cap	41 10 1	65-4570	Seal - Square Ring	4 4 2

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

Part No.	Description	Pg. No.	Ref. No.	Qty.	Part No.	Description	Pg. No.	Ref. No.	Qty.
65-4600	Washer - Thrust	4	19	2	80-5200	End Cap - Roller	33	2	4
65-4610	Bearing - Thrust	4	20	1	80-5240	Housing - Gear Box	17	3	1
65-4620	O-Ring	4	12	1	80-5260	Cover - Gear Box	17	5	1
65-4640	Key - Square	3	7	1	80-5280	Gear	17	22	1
65-8970	Knob	13	3	1	80-5300	Housing - Bearing	17	19	1
65-8970	Knob	1	20	1	80-5320	Housing - Pinion Bearing	17	17	1
66-2490	Clamp - Battery	14	2	1	80-5330	Sleeve - Follower	17	2	1
66-2950	Hourmeter	12	11	1	80-5380	Manifold	26	27	1
66-4160	Spring - Extension	13	29	1	80-5430	Clutch - Water Pump	15	2	1
66-5293	Motor - Hydraulic	3	6	1	80-5450	Asm-Hydraulic Pump	20	48	1
67-7050	Asm-Field Rotor	16	1	1	80-5460	Asm-Body & Bearing	4	9	1
67-7100	Plate - Brake	16	3	1	80-5470	Asm-Cover & Bearing	4	2	1
67-7130	Diode	11	1	1	80-5480	Screw - HH	4	1	8
67-7310	Decal - TORO	8	11	1	80-5490	Asm-IGR	4	5	1
67-8110	Element - Oil Filter	12	27	1	80-5500	Shaft	4	10	1
69-1170	Glass - Sight	17	28	1	80-5520	Asm-Cover Tube	32	11	1
70-1480	Relay	12	29	5	80-5530	Asm-Clutch	32	4	1
70-8170	Ring - Snap	4	21	1	80-5540	Asm-Motor	32	10	1
70-9840	Shoe - Brake	3	17	2	80-5550	Kit-Seal	32	*	1
70-9850	Clip - Retaining	3	8	1	80-5560	Asm-Flange Bearing	31	34	2
70-9860	Pivot - Brake	3	26	1	80-5570	Retainer - Valve Spring	30	15	1
70-9870	Plate - Brake	3	13	1	80-5580	Follower - Cam	26	18	1
70-9880	Spring - Brake	3	16	2	80-5590	Pilot - Gear Box	30	18	1
71-1500	Asm-Brake	3	*	1	80-5600	Spool - Valve	30	1	1
71-4170	Switch - Toggle	2	52	1	80-5630	Valve - Check	25	9	6
71-5960	Filter - Fuel	46	6	1	80-5640	Gauge - Pressure	12	5	1
71-5960	Filter - Fuel	14	28	1	80-5650	Muffler	14	7	1
71-5990	Plate - Ignition Plunger	45	3	1	80-5720	Retainer - Seal	25	2	3
71-6000	Coil - Ignition	45	6	1	80-5730	Ring - Head Back-Up	25	6	3
71-6010	Rotor - Ignition	45	12	1	80-5730	Ring - Head Back-Up	30	30	1
71-6020	Cable - Spark Plug (18.5)	45	*	1	80-5740	Seal - Packing	30	29	1
71-6030	Regulator - Voltage	47	25	1	80-5740	Seal - Packing Vee	25	5	3
71-6040	Asm-Starter	49	*	1	80-5750	Support - Seal/Plunger	25	4	3
71-6080	Bracket - Lifting	47	20	2	80-5751	Support - Seal/Plunger	30	28	1
71-6100	Hose - Fuel (Cut to 5)	46	5	1	80-5760	Seal - U-Cup	25	3	3
71-6100	Line - Pulse (Cut to 7)	46	4	1	80-5760	Seal - U-Cup	30	26	1
71-6140	Grommet - Rubber	42	16	1	80-5770	Spring - Compression	30	16	1
71-6170	Seal - Oil Fill Tube	39	8	1	80-5780	O-Ring	30	3	1
71-6190	Key - Flywheel	38	5	1	80-5780	O-Ring	27	39	1
71-6220	Clip - Wire	45	13	1	80-5781	Seal - Check Valve	25	10	6
71-6220	Clip - Wire	47	27	1	80-5782	O-Ring	26	16	2
71-6240	Screw - HFH	34	19	5	80-5782	O-Ring	25	20	1
71-6350	Asm-Gear Case	41	13	1	80-5782	O-Ring	30	37	1
71-6380	Control - Ignition	41	16	1	80-5784	O-Ring	26	6	2
71-6390	Screw - HH	41	21	3	80-5786	O-Ring	27	37	11
71-6400	Screw - HWH	41	19	2	80-5791	O-Ring	25	8	6
71-6410	Insulator - Ignition Module	41	17	1	80-5791	O-Ring	26	28	2
71-6420	Cable - Spark Plug (9)	45	9	1	80-5793	O-Ring	26	4	2
71-6430	Hut - HF	45	8	1	80-5794	O-Ring	26	2	1
71-6440	Nut - HF	45	7	1	80-5794	O-Ring	25	12	1
71-6450	Screw - HFH	45	11	1	80-5920	Key - Collar	23	20	1
71-6450	Screw - HH	42	13	1	80-6090	Key - Pump	21	49	1
71-6460	Screw - HFH	45	5	2	80-6110	Kit-Charge Relief Valve	22	*	1
72-3860	Kit-Choke Shaft	44	1	1	80-6120	Kit-Check Valve	22	1	1
72-3870	Kit-Choke Lever	44	2	1	80-6130	Kit-Overhaul Seal	22	*	1
72-3880	Screw - HWH	48	8	1	80-6140	Key - Clutch	15	1	1
72-3890	Screw - HH	48	1	1	80-6510	Hose - Water	7	2	1
72-3900	Screw - HWH	48	10	1	80-6514	Hose - Water	7	14	1
72-3900	Screw - Tapping	47	5	1	80-6515	Hose - Water	7	7	1
72-3930	Kit-Starter Solenoid	49	5	1	80-6516	Hose - Water	7	4	1
72-3940	Kit-Starter Clutch	49	3	1	80-6517	Hose - Water	7	12	1
72-3950	Kit-Dust Seal	49	2	1	80-6520	Hose - Water	7	13	1
72-4080	Decal - Danger (English)	2	61	1	80-6521	Hose - Gage	25	17	1
72-4310	Switch - Ball N.C.	31	36	1	80-6521	Hose - Gage	30	34	1
72-4320	Switch - Ball	27	44	1	80-6580	Asm-Hub	31	21	2
74-0720	Tube - Manual	2	49	1	80-6600	Bracket - Spring	23	13	1
76-2350	Asm-Seal & Retainer	4	*	1	80-6610	Spring - Extension	20	17	1
76-2360	Kit-Body Seal	4	*	1	80-6620	Spring - Extension	23	10	1
76-8640	Stud	20	15	1	80-6630	Tube - Hydraulic	8	31	1
79-6470	Gasket - Oil Filter Adaptor	40	1	1	80-6640	Tube - Hydraulic	8	30	1
80-5080	Support - Manifold	26	26	1	80-6650	Pulley - Water Pump	23	17	1
80-5140	Lever - Lift	31	12	1	80-6660	Collar - Taper Lock	23	19	1

*Not Illustrated

TORO PART NUMBER INDEX (Cont.)

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Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
80-6720	Belt – V	20 1 1	80-8010	Decal – Warning (English)	31 10 1
80-6730	Belt – V	23 18 2	80-8010	Decal – Warning (English)	32 12 1
80-6740	Hose – Water	5 3 1	80-8020	Decal – Instruction	2 56 1
80-6791	Battery	14 1 1	80-8030	Decal – Danger	28 6 2
80-6900	Bracket – Switch	2 33 1	80-8030	Decal – Danger (English)	26 8 2
80-6980	Asm-Latch	8 25 2	80-8040	Decal – Warning (English)	15 41 1
80-6990	Washer – Thrust	33 24 4	80-8050	Decal – Hydroject 3000	8 29 2
80-7000	Arm – Pivot	13 11 1	80-8070	Decal – Parking Brake	2 58 1
80-7020	Fitting – Breather	17 6 1	80-8090	Decal – Warning (English)	8 21 3
80-7020	Vent – Filter	24 2 1	80-8110	Panel – Engine Control	13 2 1
80-7030	Shim – Pinion Bearing	17 16 1	80-8150	Panel – Control (English)	13 31 1
80-7031	Shim – Pinion Bearing	17 * 1	80-8170	Pulley – Hydraulic Pump	20 4 1
80-7032	Shim – Pinion Bearing	17 * 1	80-8180	Hub – Adapter	15 16 1
80-7033	Shim – Pinion Bearing	17 * 1	80-8210	Feeder – Manifold	27 38 1
80-7040	Shim – Gear/Cam Bearing	17 20 1	80-8220	Cap – Check Valve	25 7 6
80-7041	Shim – Gear/Cam Bearing	17 * 1	80-8220	Plug	26 29 2
80-7042	Shim – Gear/Cam Bearing	17 * 1	80-8230	Plug	27 41 1
80-7043	Shim – Gear/Cam Bearing	17 * 1	80-8270	Bracket – Adjustment	31 4 1
80-7050	Shim – Gear Box	15 17 2	80-8280	Rod – Control	12 2 1
80-7051	Shim – Gear Box	15 * 2	80-8290	Plate – Hot Surface (English)	14 14 3
80-7052	Shim – Gear Box	15 * 2	80-8330	Pivot – Roller	33 16 2
80-7053	Shim – Gear Box	15 * 2	80-8340	Shaft – Pinion	17 12 1
80-7060	Shaft – Override	2 45 1	80-8360	Pulley – Idler	23 4 1
80-7070	Asm-Relief Valve	26 14 1	80-8400	Lever – Speed Control	13 4 1
80-7080	Housing	2 40 1	80-8430	Cable – Speed Control	13 26 1
80-7110	Handle – Traction Control	1 16 1	80-8440	Control – Throttle	12 19 1
80-7150	Spring – Compression	2 43 2	80-8460	O-Ring	30 5 1
80-7160	Arm – Traction	2 51 1	80-8470	Ring – Support	30 6 1
80-7190	Shaft – Pivot	1 14 1	80-8500	Cam	17 23 1
80-7200	Spacer – Brake	1 18 1	80-8510	Block – Weight	17 27 1
80-7220	Asm-Stroke Control Cable	2 38 1	80-8530	Flange – Bearing	33 6 4
80-7220	Asm-Stroke Control Cable	20 45 1	80-8550	Flange – Bearing	33 5 4
80-7230	Hub – Override	2 44 1	80-8560	Washer	15 27 1
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80-7330	Hose – Hydraulic	9 45 2	80-8620	Spacer – Coupler	15 23 2
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80-7346	Hose – Water	7 8 2	80-8680	Stud	2 32 3
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80-7590	Spacer	13 16 1	80-8930	Sump – Water Filter	5 28 1
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80-7880	Bolt – U	12 37 2	80-9180	Shield – Manifold	33 10 2
80-7890	Spring – Compression	13 7 1	80-9200	Seal – Back-Up	30 19 1
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237-25	O-Ring	24 7 2	2811-10	Fitting - Drain 90°	14 31 1
237-25	O-Ring	17 21 1	302-5	Fitting - Grease	31 3 1
237-30	O-Ring	12 25 2	302-5	Fitting - Grease	20 11 1

*Not Illustrated

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3321-545

Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
302-5	Fitting - Grease	8 34 1	3217-5	Nut	14 25 1
304-75	Fitting - Hydraulic 90°	20 37 1	3217-5	Nut - Lock	15 32 3
304-99	Fitting - 90° Elbow	17 33 1	3217-16	Nut - Hex.	2 55 4
304-101	Fitting - Barb	25 15 1	3218-1	Nut - Jam	20 3 2
304-101	Fitting - Barb	30 32 1	3219-20	Nut - Hex. (L.H. Thread)	13 35 2
321-3	Screw - HH	45 1 2	3219-28	Nut - Hex.	25 18 8
321-3	Screw - HH	12 13 4	3219-28	Nut - Lock	23 24 8
321-3	Screw - HH	15 36 1	3220-1	Nut - Jam	2 39 2
321-4	Screw - HH	3 15 4	3220-1	Nut - Jam	20 44 1
321-4	Screw - HH	23 21 2	3220-2	Nut - Lock	12 43 2
321-4	Screw - HH	8 27 6	3220-3	Nut - Jam	13 15 2
321-6	Screw - HH	35 49 2	3220-6	Nut - Jam	20 19 2
321-10	Screw - HH	20 29 2	3220-6	Nut - Jam	2 62 2
321-11	Screw - HH	35 31 2	3220-7	Nut - Slotted	31 27 2
321-28	Screw - HH	8 19 2	3220-23	Nut - Jam	30 22 1
322-1	Screw - HH	14 12 2	3229-1	Bolt - Carriage	8 9 12
322-3	Screw - HH	13 6 2	3229-1	Bolt - Carriage	1 27 1
322-3	Screw - HH	24 10 16	3230-1	Bolt - Carriage	5 15 3
322-3	Screw - HH	14 17 2	3230-2	Screw - Carriage	5 46 2
322-3	Screw - HH	8 5 2	3230-8	Bolt - Carriage	33 22 4
322-4	Screw - HH	14 8 2	3230-22	Bolt - Carriage	31 18 6
322-4	Screw - HH	17 9 8	3234-4	Screw - HWH	8 18 6
322-4	Screw - HH	15 25 2	3234-14	Screw - HWH	33 13 2
322-5	Screw - HH	40 4 2	3234-24	Screw - HFW	9 40 2
322-5	Screw - HH	21 52 1	3234-24	Screw - HWH	33 12 10
322-9	Screw - HH	41 15 4	3234-25	Screw - HWH	33 23 4
322-11	Screw - HH	50 4 2	3245-5	Screw - Set	20 2 2
322-12	Screw - HH	43 11 2	3247-4	Screw - Set	36 63 4
322-17	Screw - HH	20 16 1	3250-35	Screw	2 53 4
322-22	Screw - Mounting	49 11 2	3253-3	Washer - Lock	12 14 2
323-2	Screw - HH	24 17 1	3253-3	Washer - Lock	14 22 1
323-2	Screw - HH	15 28 1	3253-3	Washer - Lock	15 31 3
323-2	Screw - HWH	33 9 6	3253-4	Washer - Lock	14 5 8
323-4	Screw - HH	28 14 2	3253-4	Washer - Lock	50 5 2
323-4	Screw - HH	13 30 2	3253-4	Washer - Lock	24 22 12
323-5	Screw - HH	17 18 8	3253-4	Washer - Lock	21 53 3
323-5	Screw - HH	26 22 12	3253-21	Washer - Lock	14 20 2
323-5	Screw - HH	5 34 4	3253-21	Washer - Lock	23 25 1
323-6	Screw - HH	26 5 4	3253-21	Washer - Lock	15 29 1
323-6	Screw - HH	23 11 1	3253-21	Washer - Lock	12 30 2
323-6	Screw - HH	12 21 3	3253-21	Washer - Lock	27 42 4
323-6	Screw - HH	14 21 2	3254-6	Washer - I.T.L.W.	33 26 6
323-6	Screw - HH	15 34 2	3254-9	Washer - I.T.L.W.	2 54 4
323-6	Screw - HH	21 58 4	3254-9	Washer - Lock	20 32 2
323-7	Screw - HH	13 12 2	3255-9	Washer - E.T.L.W.	14 38 1
323-7	Screw - HH	31 17 3	3256-2	Washer - Flat	2 42 4
323-9	Screw - HH	14 4 1	3256-2	Washer - Flat	27 45 22
323-12	Screw - HH	23 7 1	3256-14	Washer - Flat	1 2 4
323-13	Screw - HH	27 40 7	3256-14	Washer - Flat	13 32 8
323-14	Screw - HH	43 8 4	3256-22	Washer - Flat	8 12 10
323-14	Screw - HH	13 17 1	3256-22	Washer - Flat	12 15 7
323-17	Screw - HH	26 12 4	3256-23	Washer - Flat	8 4 2
323-19	Screw - HH	14 37 4	3256-23	Washer - Flat	50 6 2
323-25	Screw - HH	39 4 4	3256-23	Washer - Flat	15 10 4
323-29	Screw - HH	1 17 1	3256-23	Washer - Flat	14 13 6
323-44	Screw - HWH	15 19 2	3256-23	Washer - Flat	20 14 2
323-46	Screw - HWH	15 20 2	3256-23	Washer - Flat	1 25 1
323-52	Screw - HH	17 25 4	3256-23	Washer - Flat	13 34 2
324-6	Screw - HH	20 5 2	3256-24	Washer - Flat	14 3 3
324-26	Screw - HH	26 19 4	3256-24	Washer - Flat	12 18 2
325-4	Screw - HH	26 25 1	3256-24	Washer - Flat	15 18 10
325-5	Screw - HH	26 23 1	3256-24	Washer - Flat	1 22 1
325-6	Screw - HH	3 4 4	3256-24	Washer - Flat	8 24 2
325-12	Screw - HH	26 24 1	3256-25	Washer - Flat	20 47 2
325-14	Screw - HH	3 1 4	3256-26	Washer - Flat	31 7 1
325-14	Screw - HH	31 35 1	3256-26	Washer - Flat	23 26 2
325-17	Screw - HH	21 57 1	3256-28	Washer - Flat	33 8 4
325-22	Screw - HH	31 15 1	3256-29	Washer - Flat	5 39 2
3210-8	Screw - HH	15 14 3	3256-42	Washer - Flat	5 41 2
3210-14	Screw - HH	15 9 2	3256-56	Washer - Flat	24 16 1
3211-38	Screw - HH	15 26 1	3256-68	Washer - Flat	33 14 2
3213-7	Screw - HH	23 6 1	3257-15	Key - Woodruff	4 11 1

*Not Illustrated

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3269-32	Rivet - Pop	14 15 10	32104-76	Screw - Hex. Slotted Hd.	2 48 2
3269-32	Rivet - Pop (Japan)	1 1 4	32104-95	Screw - HFH	12 45 4
3269-32	Rivet - Pop (Japan)	13 33 6	32104-95	Screw - HWH	20 22 2
3272-2	Pin - Cotter	12 39 1	32104-95	Screw - HWH	1 28 6
3272-4	Pin - Cotter	13 27 1	32104-95	Screw - HWH	15 42 1
3272-10	Pin - Cotter	1 7 1	32105-2	Screw - HFH	2 60 1
3272-10	Pin - Cotter	3 9 1	32105-2	Screw - HH	12 10 2
3272-13	Pin - Cotter	31 25 2	32105-5	Screw - HH	12 34 2
3274-10	Screw - HSH	14 6 4	32105-25	Screw - Round Hd.	20 33 2
3274-10	Screw - Socket Hd.	17 1 2	32120-37	Ring - Retaining	30 21 1
3274-83	Screw - Socket Hd.	30 13 6	32121-34	Pin - Roll	20 34 1
3290-313	Screw - PH	2 35 2	32121-42	Pin - Roll	17 24 4
3290-354	Plate - Nut	2 37 1	32121-48	Pin - Roll	30 12 1
3290-378	Tie - Cable	11 * 5	32121-66	Pin - Roll	31 13 3
3290-378	Tie - Cable	50 1 6	32121-79	Pin - Roll	1 15 2
3290-378	Tie - Cable	7 3 4	32128-21	Nut - Flange Lock	14 35 4
3290-378	Tie - Cable	21 59 1	32128-37	Nut - Flange Lock	20 46 2
3290-379	Tie - Cable	11 * 4	32144-22	Screw - HWH	3 35 2
3290-410	Tie - Cable	20 21 1	32144-41	Screw - HH	5 12 4
3290-494	Washer - Rubber	5 1 1	32144-53	Screw - Hex. Socket Hd.	15 30 1
3296-2	Nut - Lock	12 20 4	32144-67	Screw - HWH	15 40 1
3296-2	Nut - Lock	2 59 1	32144-114	Screw - HH.	14 10 5
3296-3	Nut - Lock	2 41 3	32148-9	Nut - Insert	9 46 3
3296-3	Nut - Lock	20 42 1	32149-10	Nut - Lock	14 43 2
3296-6	Nut - Lock	16 4 3	32151-44	Ring - Retaining	9 39 1
3296-15	Nut - Lock	33 7 2	32151-47	Ring - Retaining	13 10 1
3296-19	Nut - Lock	23 16 2	32151-65	Ring - Retaining	24 25 6
3296-19	Nut - Lock	26 21 2	32151-99	Ring - Retaining	30 14 1
3296-20	Nut - Lock	15 13 2	32152-1	Nut - Lock	14 26 2
3296-23	Nut - Lock	3 27 4	32152-5	Nut - Lock	15 21 2
3296-23	Nut - Lock	21 54 1	340-4	Fitting - Hydraulic Straight	20 26 2
3296-28	Nut - Lock	23 3 1	340-6	Fitting - Hydraulic, Straight	3 31 2
3296-28	Nut - Lock	2 31 3	340-54	Fitting - Hydraulic 45°	21 50 1
3296-29	Nut - Lock	13 1 2	340-98	Fitting - Hydraulic 90°	12 22 2
3296-29	Nut - Lock	20 13 2	340-98	Fitting - Hydraulic 90°	17 30 1
3296-29	Nut - Lock	31 16 6	340-127	Nut - Bulkhead	8 32 4
3296-29	Nut - Lock	33 19 16	340-161	Fitting - Hydraulic Bulkhead	9 37 2
3296-29	Nut - Lock	5 38 5	353-550	Fitting - Plug	17 7 2
3296-29	Nut - Lock	9 42 2	353-550	Plug - Drain	24 26 1
3296-39	Nut - Lock	33 11 10	354-82	Asm-Plug	25 13 3
3296-39	Nut - Lock	23 14 1	354-82	Plug	26 1 1
3296-39	Nut - Lock	31 14 3	354-88	Coupler - Female	5 44 1
3296-39	Nut - Lock	12 17 1	354-89	Coupler - Male	5 45 1
3296-39	Nut - Lock	13 18 3	354-92	Fitting - Reducer	26 10 1
3296-39	Nut - Lock	17 26 4	354-93	Fitting - 90° Elbow	26 11 1
3296-39	Nut - Lock	9 44 2	354-93	Fitting - 90° Elbow	12 38 2
3296-39	Nut - Lock	21 56 4	354-98	Fitting - Adapter	8 1 2
3296-42	Nut - Lock	8 8 26	354-98	Fitting - Straight	5 31 2
3296-42	Nut - Lock	3 14 4	354-100	Fitting - 90° Elbow	5 6 2
3296-42	Nut - Lock	1 26 1	354-101	Fitting - 90° Elbow	5 25 1
3296-42	Nut - Lock	12 33 6	354-102	Asm-Hydraulic Fitting	12 4 1
3296-42	Nut - Lock	20 36 2	354-106	Fitting - 90° Elbow	5 17 1
3296-45	Nut - Lock	31 6 2	354-107	Fitting - Tee	7 5 2
3296-45	Nut - Lock	3 34 2	354-109	Fitting - Adaptor	5 2 1
3296-49	Nut - Lock	5 40 2	354-113	Cap - Pipe	8 22 1
3296-56	Nut - Lock	23 15 1	354-133	Fitting - Tee	5 32 1
3296-56	Nut - Lock	13 24 2	355-1	Fitting - Tee	5 18 4
3296-59	Nut - Lock	13 21 2	355-2	Fitting - 90° Elbow	5 19 2
3296-59	Nut - Lock	1 23 1	355-4	Cap	5 23 2
32104-60	Screw - HWH	1 1 8	355-5	Strainer	5 21 6
32104-60	Screw - HWH	20 10 2	355-6	Nozzle	5 22 6

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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Japanese parts kit number 93-1657 contains all of the individual parts on the preceding pages designated as (Japan).

MAINTENANCE RECORD

[illegible]

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

Litho in U.S.A.