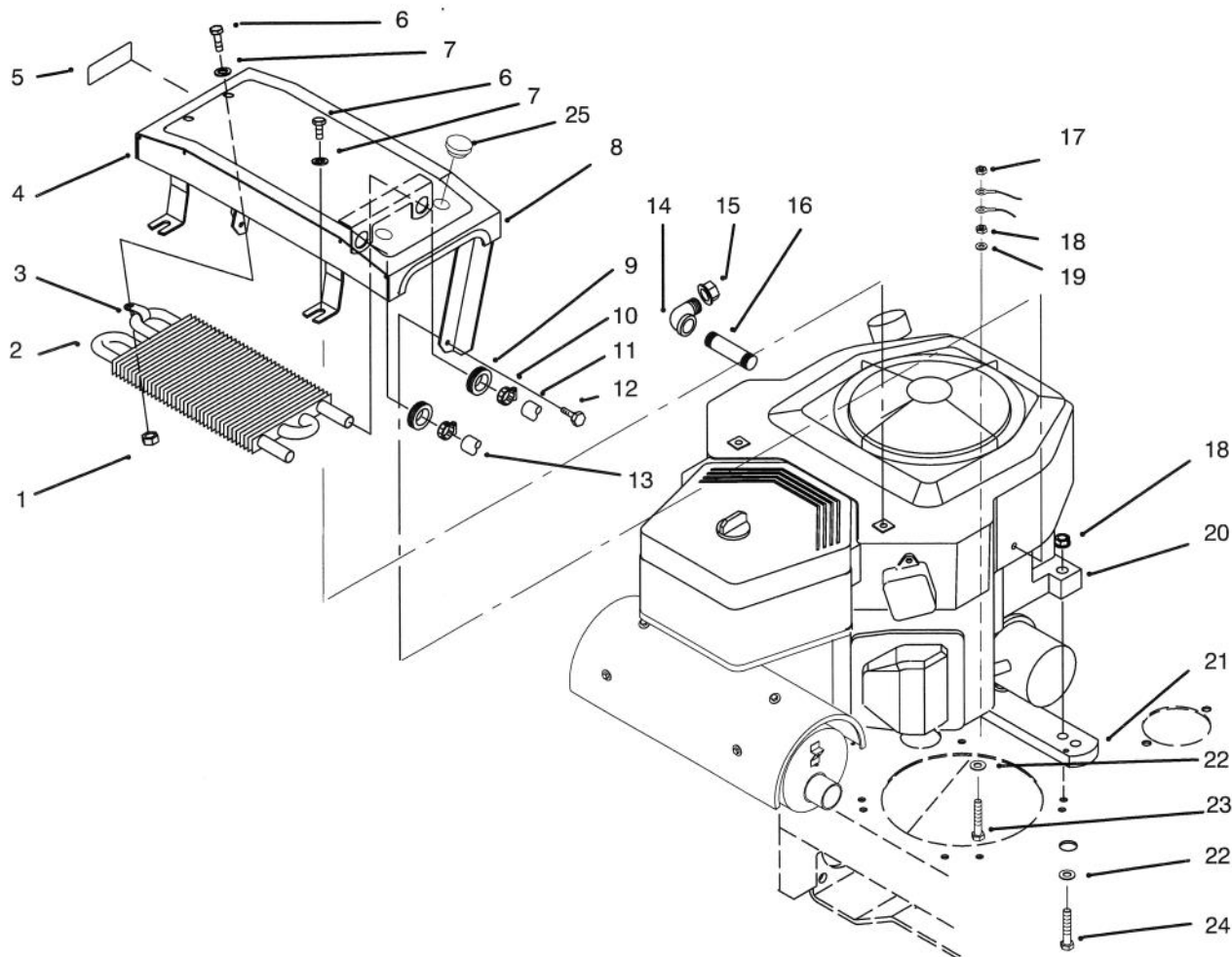


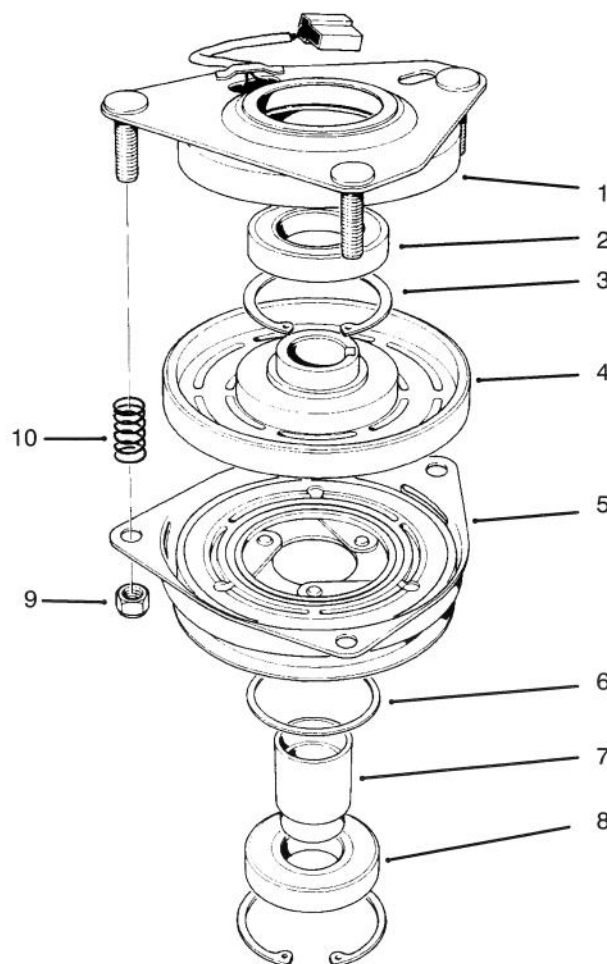


MODEL NO. 30191-59001 & UP

**PARTS
CATALOG**
**PROLINE MID SIZE TRACTION UNIT
20 HP Hydro DRIVE**

ENGINE, & COOLER

Ref. No.	Part No.	Description	No. Used
1	3296-42	Nut - Lock	2
2	82-4220	Cooler - Oil	1
3	2412-134	R-Clamp	2
4	93-1183	Mount - Cooler	1
5	74-0490	Decal - Fuel Shut Off	1
6	321-39	Screw - Hex. Hd.	4
7	3256-1	Washer - Flat	4
8	29-0642	Trim	1
9	240-9	Grommet	2
10	2412-136	Clamp Hose	2
11	82-4191	Hose - Hydro	1
12		Screw-w/Engine	
13	82-4190	Hose - Hydro	1

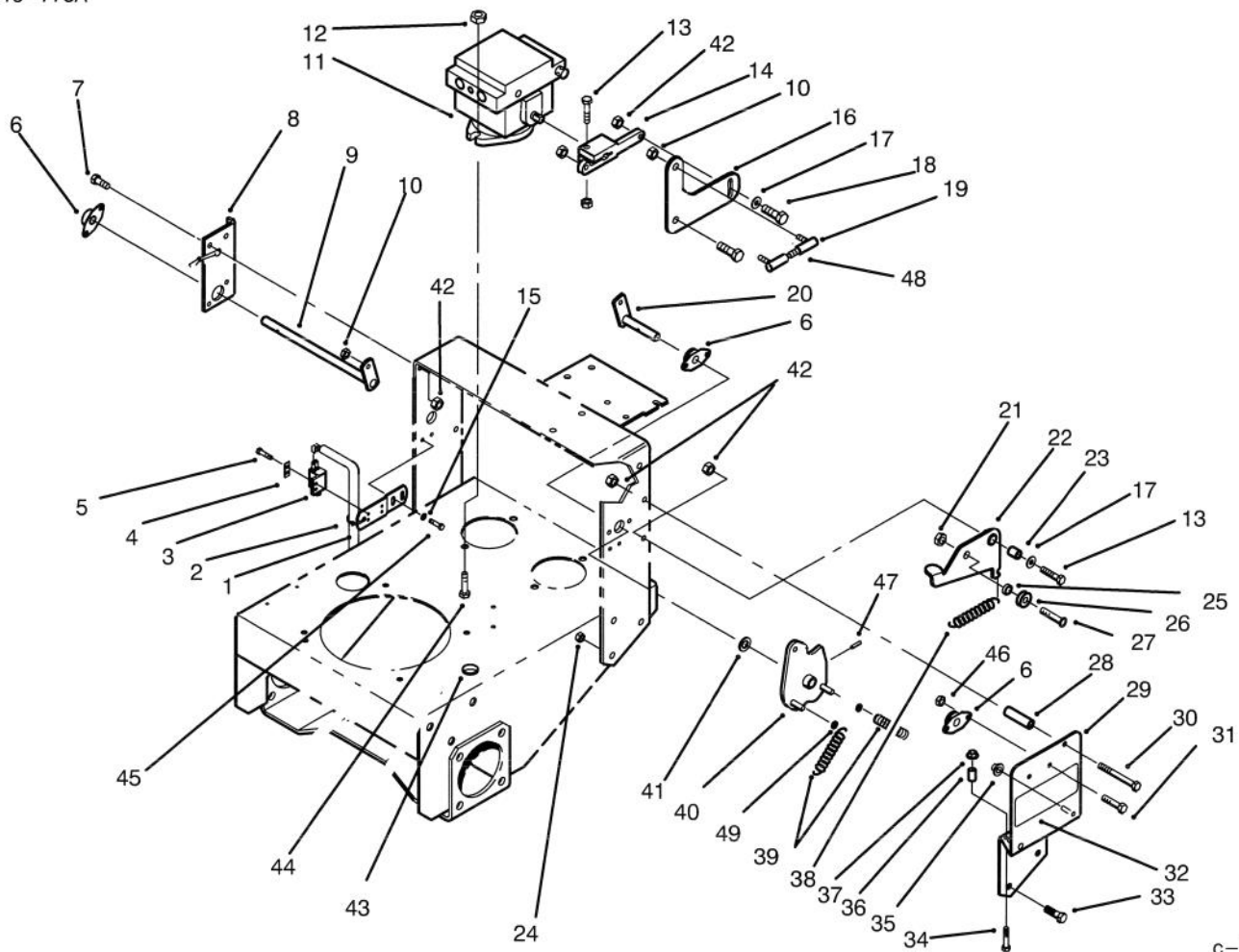
Ref. No.	Part No.	Description	No. Used
14	2811-10	Fitting - Elbow	1
15	288-4	Cap - Pipe	1
16	289-42	Nipple - Pipe	1
17	32149-1	Nut - Keps	1
18	32153-3	Nut - Lock	4
19	3255-8	Washer - Flat	1
20		Engine 18Hp. Kohler (Ref.)	1
21	93-1176	Spacer - Engine	2
22	3256-23	Washer - Flat	4
23	322-11	Screw - Hex. Hd.	2
24	322-10	Screw - Hex. Hd.	2
25	2410-71	Plug	2



CLUTCH ASSEMBLY NO. 54-3200

T-0080

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	54-0230	Field Ass'y (Incl. Ref. # 2 & 3)	1	6	44-8330	Spacer - Pulley Bearing	1
2	251-292	Bearing - Field	1	7	44-8340	Collar - Bearing	1
3	44-8310	Ring - Retaining	2	8	251-291	Bearing - Pulley	1
4	44-8360	Field Coil, Rotor & Bearing Assembly (Incl. Ref. # 1)	1	9	3296-5	Nut - Lock	3
5	55-7410	Armature & Pulley Assembly (Incl. Ref. # 3, 6, 7, & 8)	1	10	44-8320	Spring	3



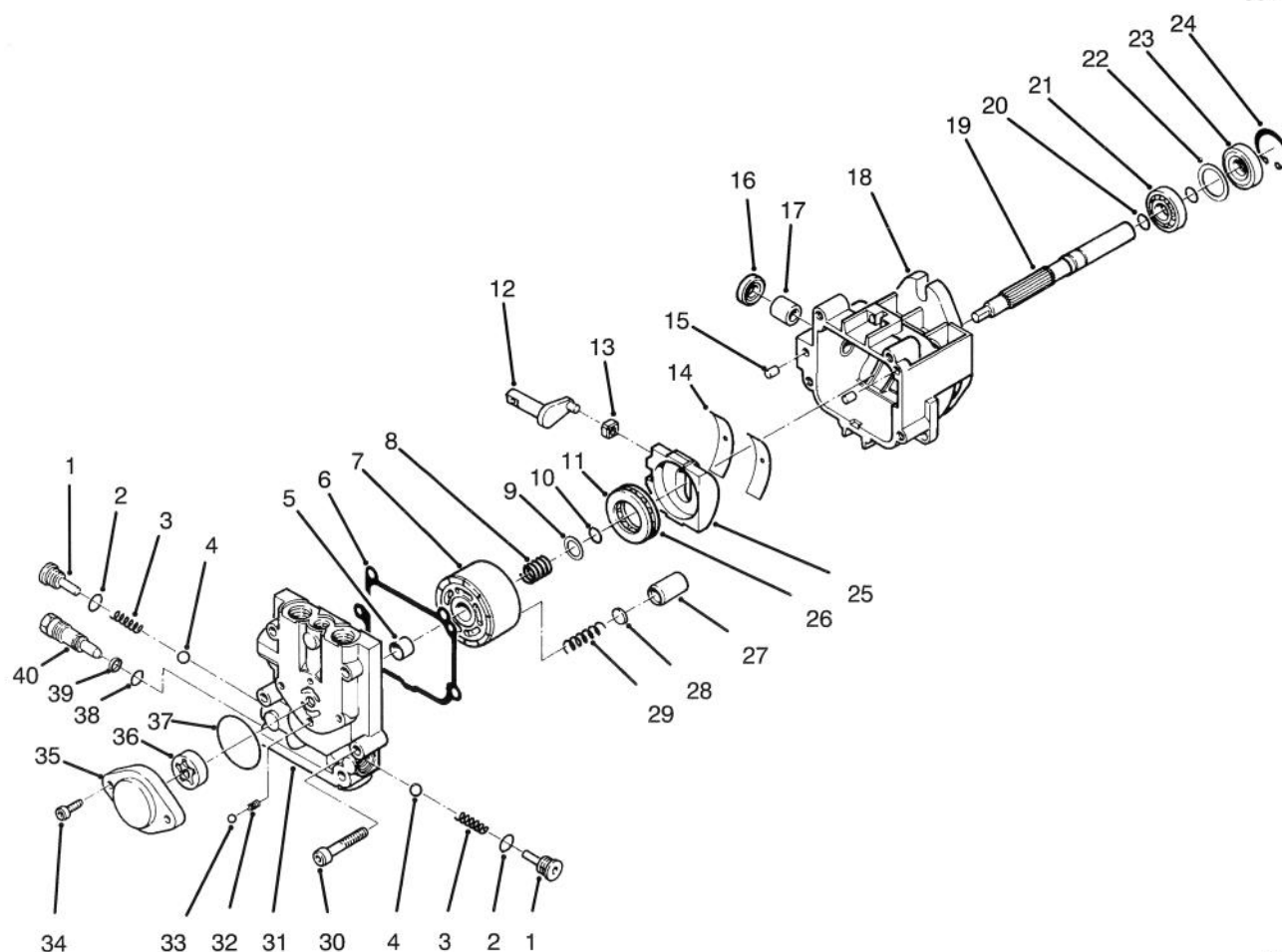
c-0734

HYDRAULIC PUMP & LINKAGE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	82-4580	Bracket - Neutral	2
2	3290-378	Tie - Cable	2
3	65-7410	Switch Assembly	2
4	82-4570	Plate - Switch	2
5	32144-1	Screw - Hex. Hd.	4
6	82-4130	Bearing Assembly	4
7	322-5	Screw - Hex. Hd.	2
8	82-4210	Bracket - Bushing	1
9	82-4290	Lever Assembly R.H.	1
10	3296-13	Nut - Lock	4
11	82-8220	Pump Assembly	2
12	32128-42	Nut - Lock	4
13	322-7	Screw - Hex. Hd.	4
14	82-3790	Arm - Pump Control	2
15	3256-1	Washer	4
16	82-4230	Arm - Follower	2
17	3256-23	Washer - Flat	4
18	322-5	Screw - Hex. Hd.	4
19	2411-34	Joint - Ball	4
20	82-4270	Lever Assembly - L.H.	1
21	3296-47	Nut - Lock	2
22	82-4330	Detent Arm Assembly L.H.	1
*	82-4340	Detent Arm Assembly R.H.	1
23	82-4370	Bushing	2
24	3296-39	Nut	6
25	82-4240	Spacer	2

Ref. No.	Part No.	Description	No. Used
26	251-259	Bearing - Ball	2
27	3274-32	Screw - Hex. Hd.	2
28	82-3920	Stop - Reverse	2
29	82-4090	Bracket Assembly L.H.	1
*	82-4070	Bracket Assembly R.H.	1
30	322-14	Screw - Hex. Hd.	2
31	321-3	Screw - Hex. Hd.	8
32	82-4600	Decal - Hydro Drive	2
33	323-6	Screw - Hex. Hd.	6
34	321-8	Screw - Hex. Hd.	2
35	32112-11	Nut - Push On	8
36	80-0650	Spacer	2
37	32128-10	Nut - Lock	2
38	82-4160	Spring	2
39	86-4760	Spring	4
40	93-1371	Pivot Assembly L.H.	1
*	93-1372	Pivot Assembly R.H.	1
41	257-5	Washer - Thrust	2
42	3296-29	Nut - Lock	12
43	237-124	Grommet	1
44	324-5	Screw - Hex. Hd.	4
45	32144-3	Screw - Hex. Hd.	4
46	3296-42	Nut - Lock	8
47	32121-4	Pin - Roll	2
48	82-4120	Rod	2
49	32121-11	Pushnut	8

* Not Illustrated



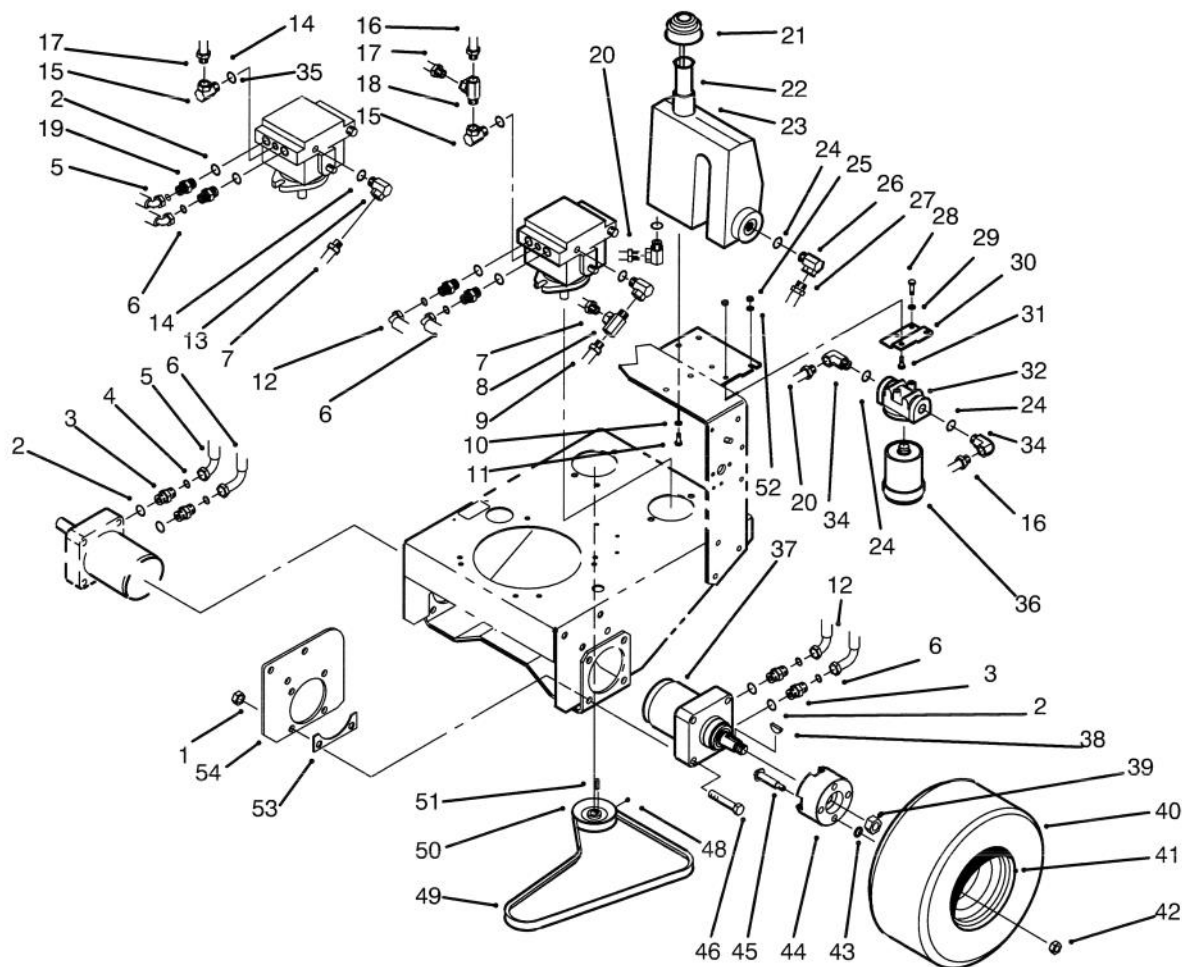
T-1236

HYDRAULIC PUMP ASSEMBLY NO. 82-8220

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 - Trunnion	1
13		Guide - Slot	1
14		Cradle - Bearing	2
15		Pin	2
16		Seal - Lip	1
17		Journal - Bearing	1
18		Housing - Assembly (Incl. Ref. #16 & 17)	1
19		Shaft	1
20		Ring - Retaining	2
21		Bearing - Ball	1
22		Spacer	1

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

*Not Illustrated



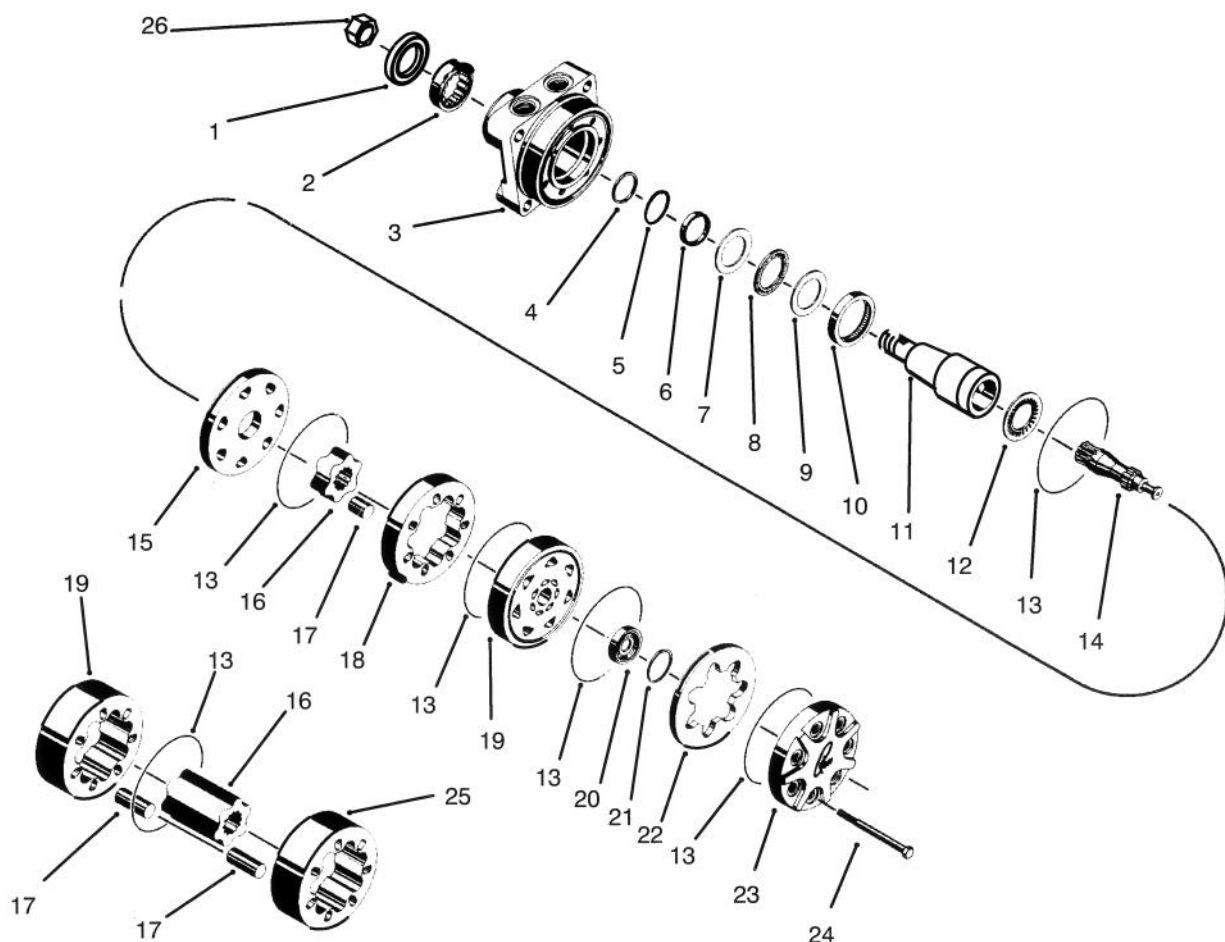
C-0735

WHEEL ASSEMBLY & HYDRAULIC COMPONENTS

Ref. No.	Part No.	Description	No. Used
1	3296-23	Nut	8
2	237-80	"O"Ring	A/R
3	340-6	Fitting - Hydro.	4
4	237-30	"O"Ring	A/R
5	82-4540	Hose - Hydro.	1
6	82-4550	Hose - Hydro.	2
7	82-4201	Hose - Hydro.	1
8	2815-15	Fitting - Hydro.	1
9	82-4190	Hose - Hydro.	1
10	3253-4	Washer - Lock	3
11	322-3	Screw	3
12	82-4560	Hose - Hydro.	1
13	354-115	Fitting - Hydro.	2
14	237-42	"O"Ring	A/R
15	354-116	Fitting - Hydro.	2
16	82-4180	Hose - Hydro.	1
17	82-4170	Hose - Hydro.	1
18	2815-16	Fitting - Hydro.	1
19	340-4	Fitting - Hydro.	4
20	82-4200	Hose - Hydro.	1
21	76-0200	Cap Assembly - Oil	1
22	29-0590	Screen - Filler	1
23	82-3910	Reservoir - Oil	1
24	237-79	"O"Ring	A/R
25	3296-29	Nut	2
26	354-118	Fitting - Hydro.	2
27	82-4191	Hose - Hydro.	1

Ref. No.	Part No.	Description	No. Used
28	321-3	Screw	2
29	3253-3	Washer - Lock	2
30	82-4140	Bracket - Filter	1
31	322-3	Screw	2
32	54-0100	Head Assembly - Filter	1
34	354-117	Fitting - Hydro.	2
35	237-78	"O"Ring	A/R
36	67-8110	Filter - Oil	1
37	82-8230	Motor - Wheel	2
38	3257-8	Key - Woodruff	2
39	85-7310	Nut (Incl. w/Motor)	2
40	231-117	Tire	2
*	232-27	Valve Stem	2
41	242-87	Wheel	2
42	242-50	Nut - Lug	8
43	32112-17	Nut - Push On	8
44	82-3830	Hub - Wheel	2
45	3213-8	Screw - Hex. Hd.	8
46	325-11	Screw - Hex. Hd.	8
48	3241-5	Screw - Set	4
49	82-4110	"V" Belt	1
50	82-4380	Pulley - Pump	2
51	80-6090	Key	2
52	3256-23	Washer	1
53	86-4740	Spacer	2
54	86-4730	Plate - Frame	2

*Not Illustrated



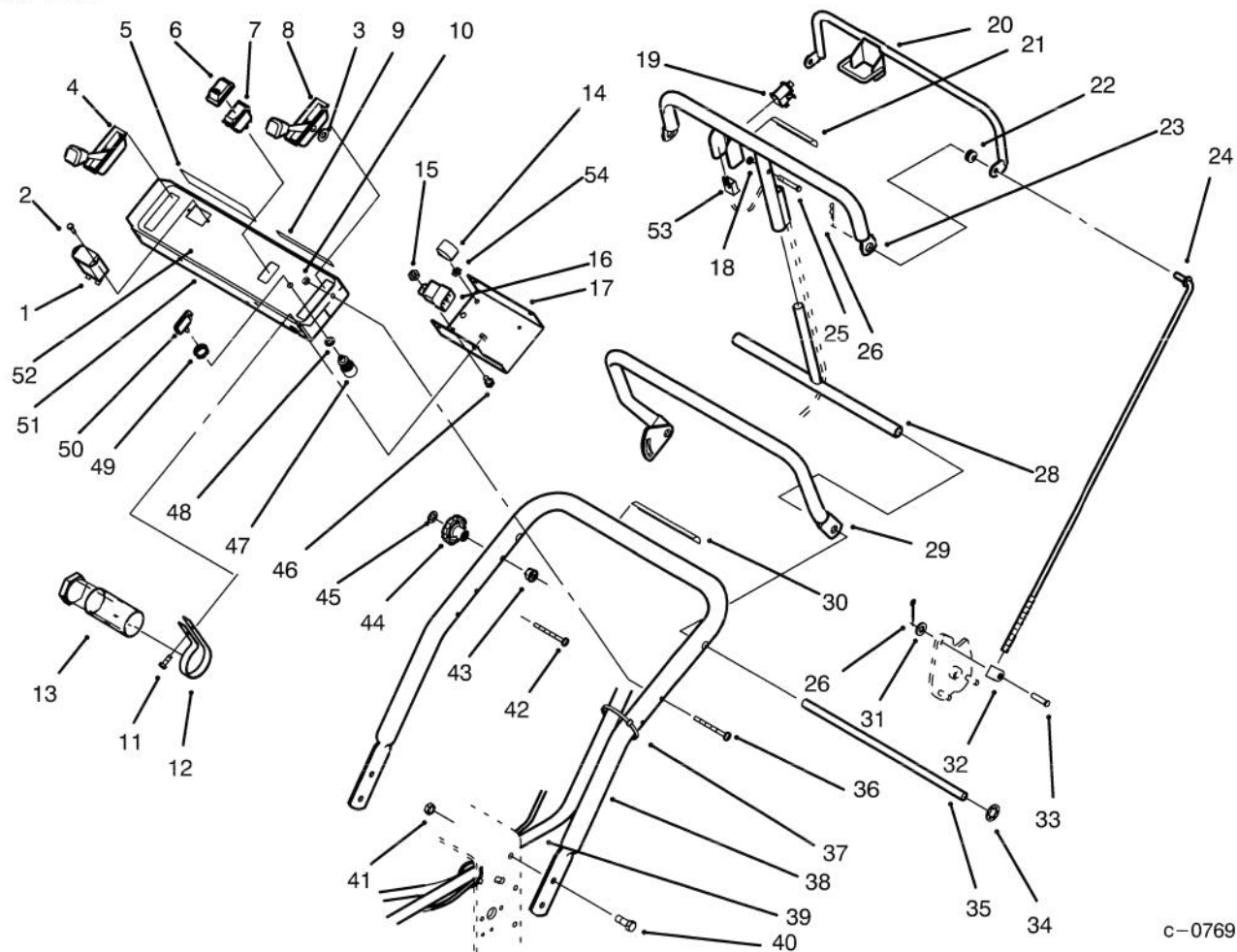
C-0737

TRACTION DRIVE MOTOR (Torquemotor)

Ref. No.	Part No.	Description	No. Used
1		Seal	1
2		Bearing	1
3		Housing	1
4		Washer - Back Up	1
5		Washer - Back Up	1
6		Seal	1
7		Washer - Thrust	1
8		Bearing - Thrust	1
9		Washer - Thrust	1
10		Bearing - Inner	1
11		Coupling - Shaft	1
12		Bearing - Thrust	1
13		"O"Ring	5
14		Link - Drive	1

Ref. No.	Part No.	Description	No. Used
15		Plate Wear	1
16		Rotor	1
17		Vane	7
18		Stator	
19		Manifold	1
20		Commutator	1
21		Seal - Commutator	1
22		Commutator - Ring	1
23		Cover - End	1
24		Bolt - Special	A/R
25		Stator Half	1
26	85-7310	Nut	1
*	85-7320	Kit - Seal (Incl. Ref. #1,4,6,13 & 20)	1

*Not Illustrated

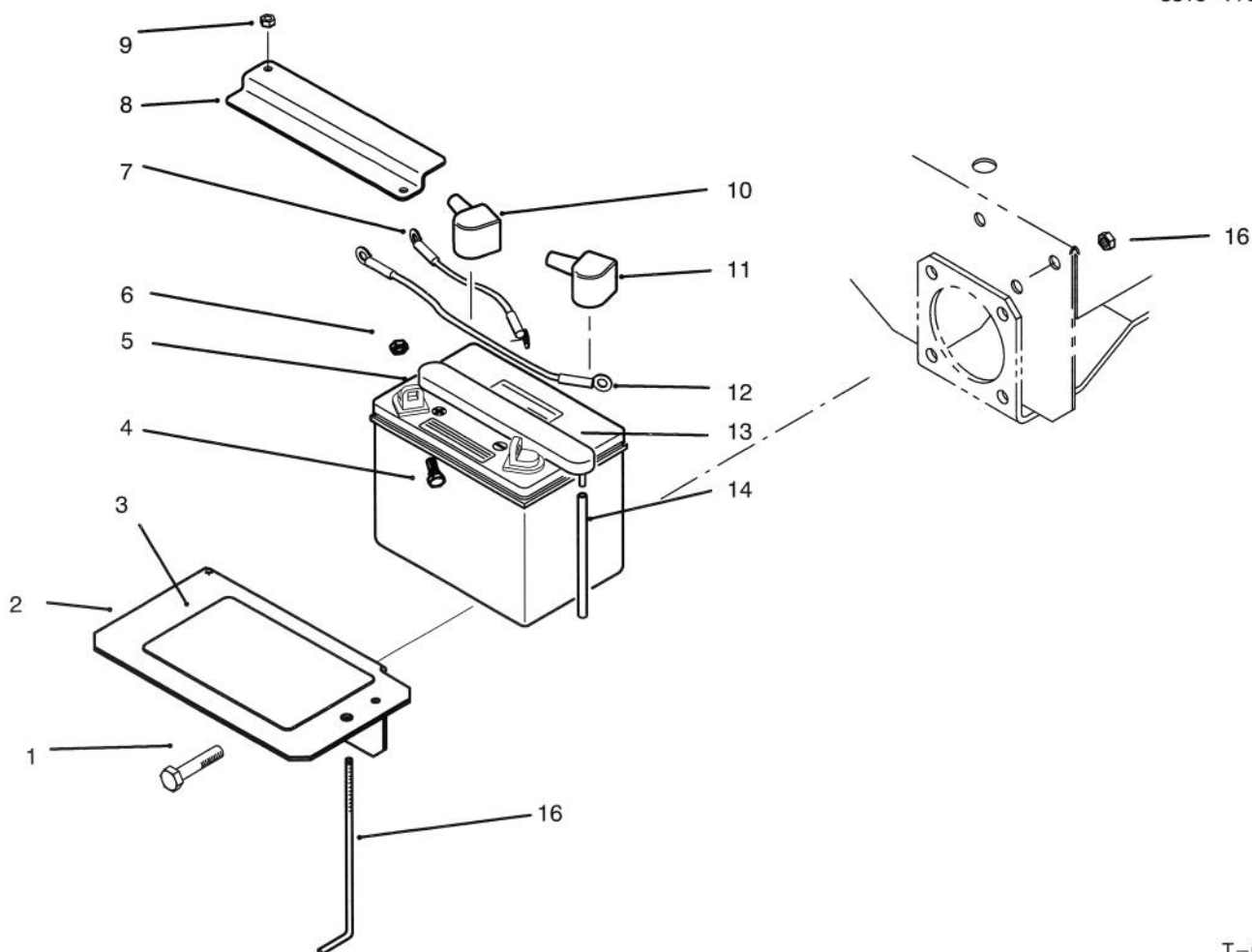


c-0769

HANDLE / CONTROL PANEL ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	75-6820	Meter - Hour	1
2	32144-18	Screw - Hex. Hd.	2
3	54-2970	Spacer	2
4	93-1191	Control - Choke	1
5	71-1280	Decal - Danger	1
6	82-3820	Boot - Switch	1
7	82-2300	Switch - Clutch	1
8	93-1190	Control - Throttle	1
9	65-3090	Decal - Instructions	1
10	3296-2	Nut - Lock	4
11	32144-19	Screw	4
12	2412-120	"R" Clamp	2
13	74-0720	Tube - Manual	1
14	86-7910	Module	1
15	3296-42	Nut - Lock	2
16	63-7590	Relay	2
17	93-1187	Panel - Bottom	1
18	3296-2	Nut	1
19	82-2190	Switch - Bail	1
20	82-7680	Bail Assembly	1
21	82-2610	Decal - Control Bar	1
22	237-141	Grommet	2
23	82-7690	Control Bar Assembly	1
24	82-7631	Rod - Control	2
25	32105-1	Screw - Hex. Hd.	1
26	3290-307	Pin - Cotter	4
28	82-3940	Pivot Control Assembly	1

Ref. No.	Part No.	Description	No. Used
29	82-4300	Handle Assembly	1
30	82-4590	Decal - Caution	1
31	3256-23	Washer - Flat	2
32	74-0521	Fitting - Rod	2
33	283-6	Pin - Clevis	2
34	32151-80	Ring - Push On	2
35	74-0470	Rod - Pivot	1
36	32105-14	Screw - Hex. Hd.	4
37	3290-378	Tie - Cable	2
38	67-6451	Handle - Upper	1
39	93-1175	Wire Harness (Ref.)	1
40	3234-11	Screw - Hex. hd.	4
41	32128-21	Nut - Lock	4
42	3230-26	Bolt Carriage	1
43	82-3840	Spacer - Latch	1
44	19-4050	Knob - Handle	1
45	32112-18	Retainer - Bolt	1
46	321-3	Screw - Hex. hd.	2
47	23-0660	Switch - Ignition	1
48	3234-5	Washer - Lock	1
49	218-461	Nut	1
50	63-8360	Key	1
51	82-2181	Panel - Control	1
52	82-7741	Decal - Control Panel	1
53	218-595	Body	1
54	3255-7	Washer - Lock, Ext.	1

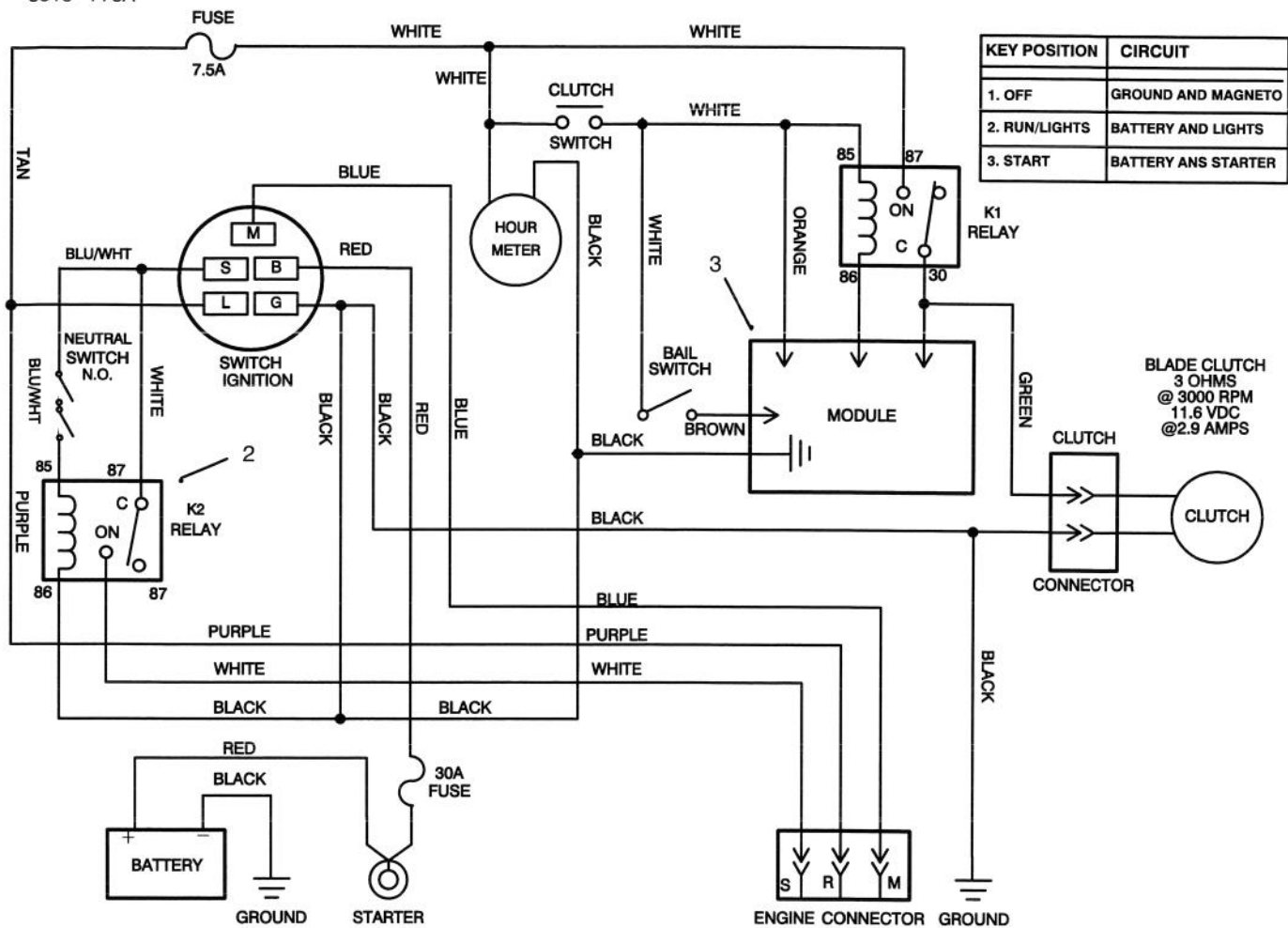


T-0875

BATTERY ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	323-9	Screw - Hex. Hd.	2
2	93-1180	Holder - Battery	1
3	62-4300	Pad - Battery Mount	1
4	322-3	Screw - Cap Hex. Hd.	2
5	82-4640	Battery	1
6	32149-1	Nut	2
7	54-3090	Cable - Battery	1
8	82-4620	Strap - Battery	1

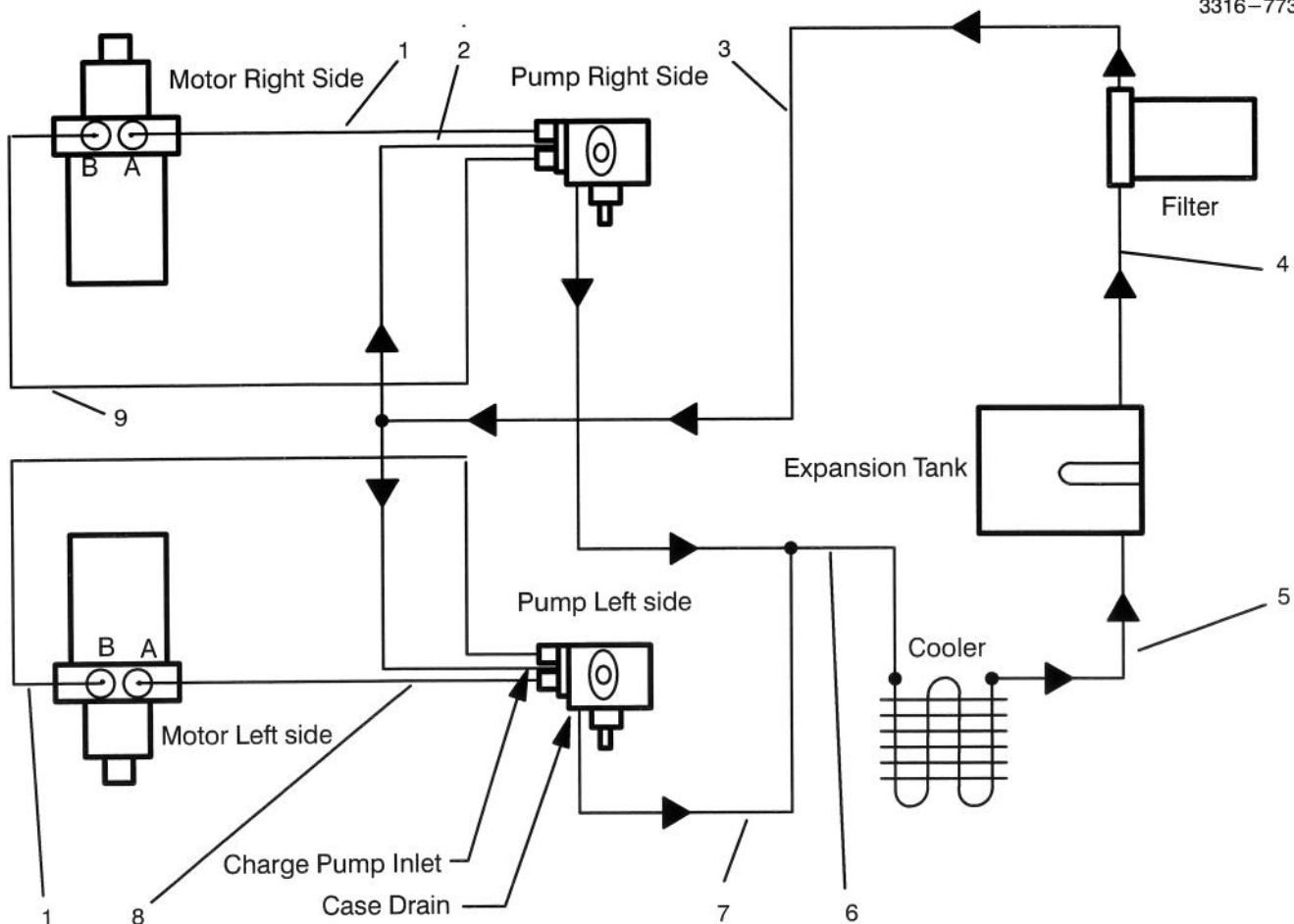
Ref. No.	Part No.	Description	No. Used
10	77-0980	Boot - Terminal	1
11	77-0981	Boot - Terminal	1
12	28-3891	Cable - Battery	1
11	3296-42	Nut - Lock	2
13	84-1830	Cap	1
14	68-3810	Tube - Vent	1
15	3296-39	Nut - Lock	2
16	12-5950	Rod - Battery Support	2



ELECTRIC SCHEMATIC

[illegible]

Ref. No.	Part No.	Description	No. Used

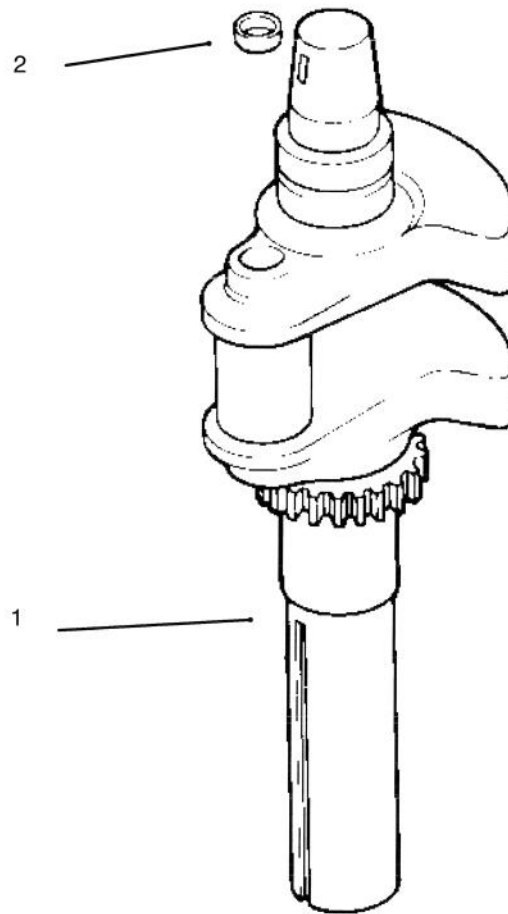


C-0708

HYDRAULIC SCHEMATIC

Ref. No.	Part No.	Description	No. Used
1	82-4550	Hose Assembly	2
2	82-4170	Hose Assembly	1
3	82-4180	Hose Assembly	1
4	82-4200	Hose Assembly	1
5	82-4191	Hose Assembly	1

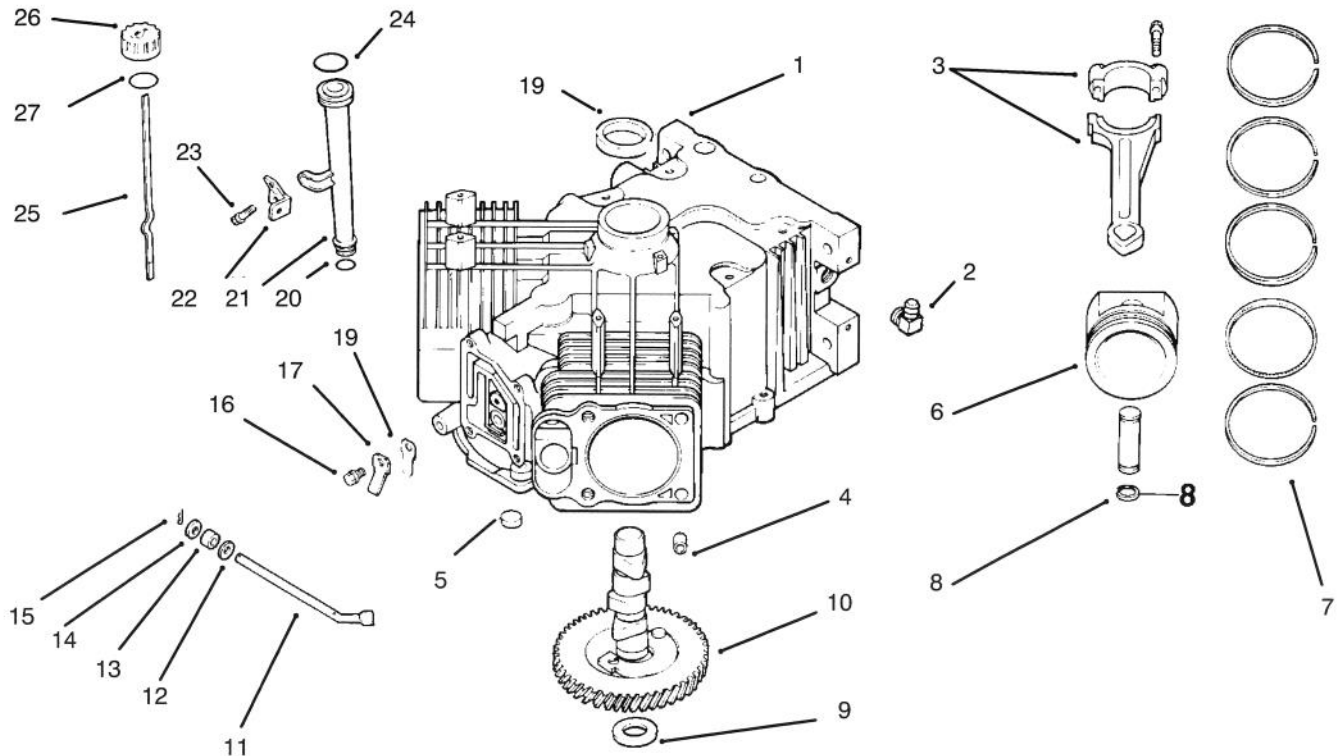
Ref. No.	Part No.	Description	No. Used
6	82-4190	Hose Assembly	1
7	82-4201	Hose Assembly	1
8	82-4560	Hose Assembly	1
9	82-4540	Hose Assembly	1



C-2159

CRANKSHAFT

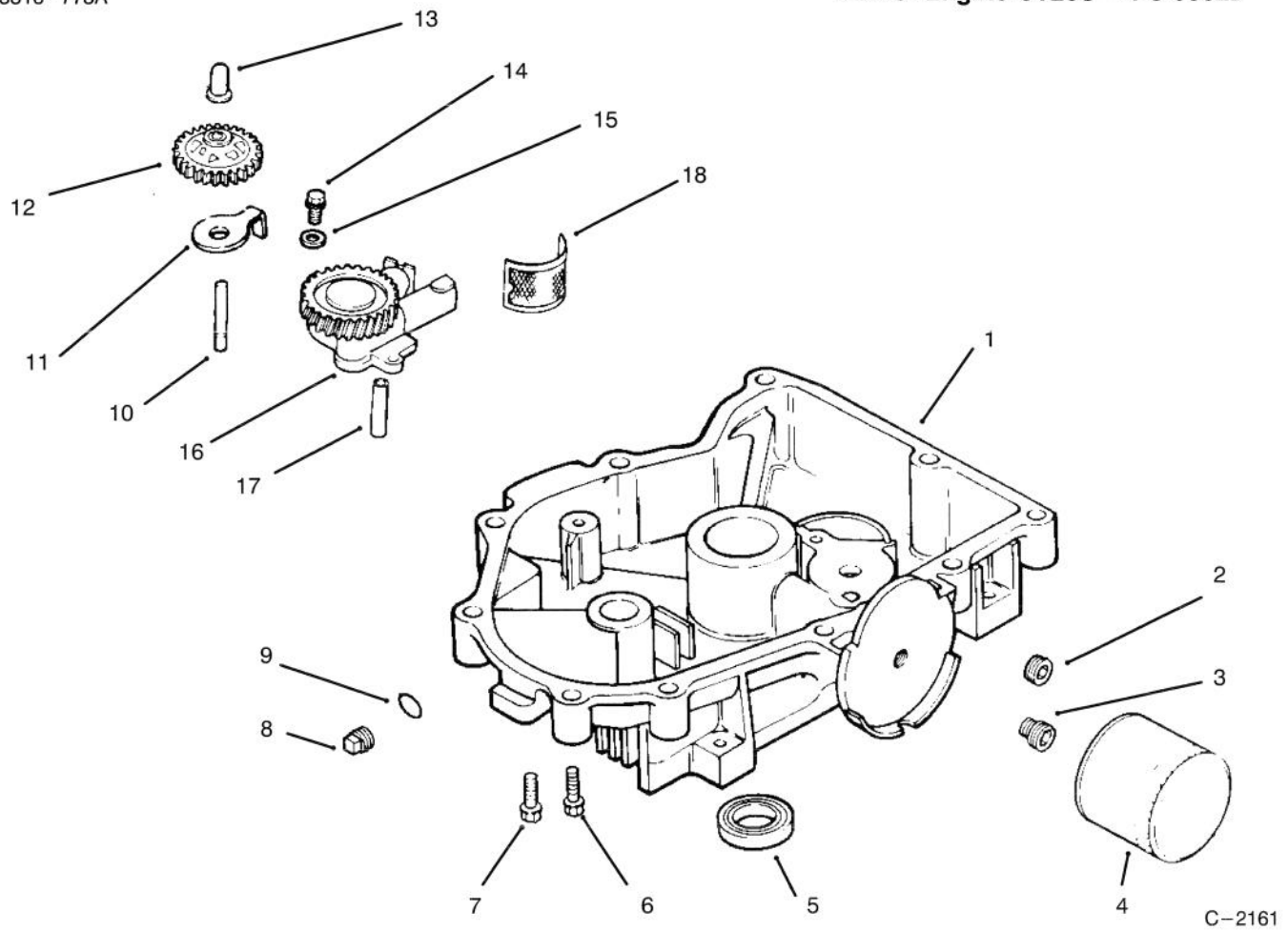
Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	Crankshaft	Crankshaft	1	2	52 139 09	Plug – Cup	
1	24 014 80						



C-2160

CRANKCASE

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	24 782 05	Cylinder Block	1	*	12 422 12	Shim – Camshaft (Gray)	A/R
2	24 294 03	Fitting	1	10	24 012 05	Camshaft	1
3	24 067 01	Rod – Connecting (Std)	2	11	24 144 01	Shaft – Governor Cross	1
*	24 067 02	Rod – Connecting (.25)	2	12	X-25-63	Washer	1
4	12 380 03	Pin – Locating	6	13	12 032 01	Seal – Governor Cross	1
5	52 139 09	Plug – Cup	1	14	X-25-102	Washer	1
6	24 874 01	Set – Piston w/Ring (Incl. Ref. #7-8)	2	15	12 380 04	Pin – Hitch	1
*	24 874 02	Set – Piston w/Ring (.25) (Incl. Ref. #7-8)	2	16	M-0545010	Screw	2
*	24 874 03	Set – Piston w/Ring (.50) (Incl. Ref. #7-8)	2	17	24 018 04	Retainer – Reed	2
7	24 108 01	Set – Ring (Std)	2	18	24 402 05	Reed – Breather	2
*	24 108 02	Set – Ring (.25)	2	19	24 032 01	Seal – Oil	1
*	24 108 03	Set – Ring (.50)	2	20	12 153 01	"O"Ring	1
8	24 018 01	Retainer – Piston Pin	4	21	12 123 04	Tube – Oil Fill	1
9	12 422 09	Shim – Camshaft (Green)	A/R	22	24 126 19	Bracket – Fill Tube	1
*	12 422 13	Shim – Camshaft (Black)	A/R	23	M-0549016	Screw	1
*	12 422 07	Shim – Camshaft (White)	A/R	24	12 153 02	"O"Ring	1
*	12 422 08	Shim – Camshaft (Blue)	A/R	25	24 038 04	Dipstick Assembly (Incl. Ref. # 26-27)	1
*	12 422 10	Shim – Camshaft (Yellow)	A/R	26	25 755 13	Kit – Fill Cap (Incl. Ref. # 27)	1
*	12 422 11	Shim – Camshaft (Red)	A/R	27	12 153 03	"O"Ring	1

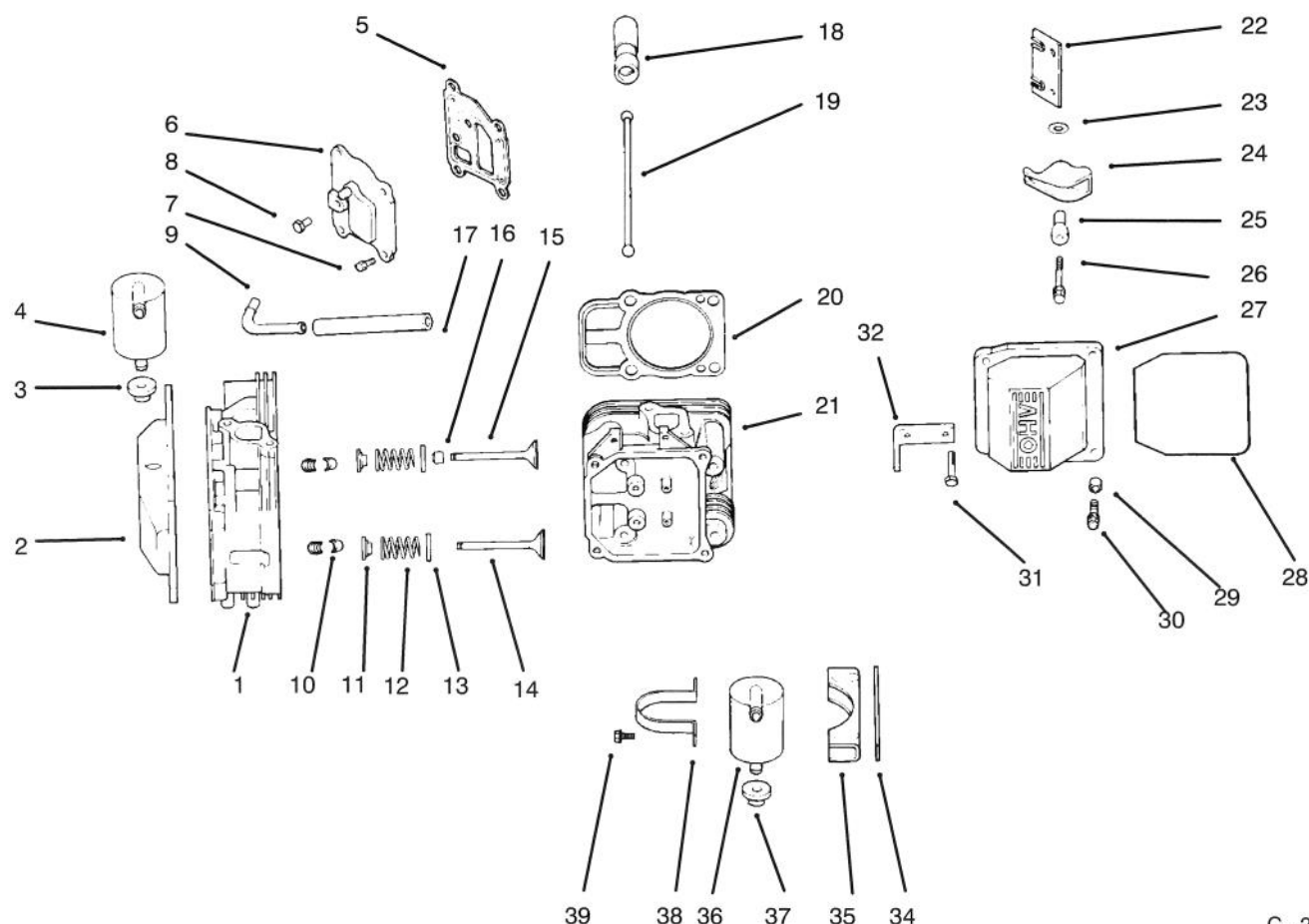


OIL PAN / LUBRICATION

Ref. No.	Part No.	Description	No. Used
1	24 199 04	Pan – Oil	1
2	X-75 32	Plug	1
3	24 136 01	Nipple – Oil Filter	1
4	12 050 01	Filter – Oil	1
5	52 032 08	Seal – Oil	1
6	24 086 17	Screw	1
7	24 086 16	Screw	9
8	X-75-10	Plug	1
9	24 153 08	"O"Ring	1
10	12 144 02	Shaft – Governor Gear	1

Ref. No.	Part No.	Description	No. Used
11	52 448 02	Tab – Locking	1
12	24 043 12	Kit – Governor Gear (Incl. Ref.#13)	1
13	12 380 01	Pin – Governor Regulating	1
14	M-645025	Screw	2
15	SM-0631005	Washer	2
16	24 393 08	Oil Pump Assembly (Incl. Ref.#17)	1
17	24 123 05	Tube – Oil Pickup	1
18	25 162 07	Screen – Oil	1

*Not Illustrated

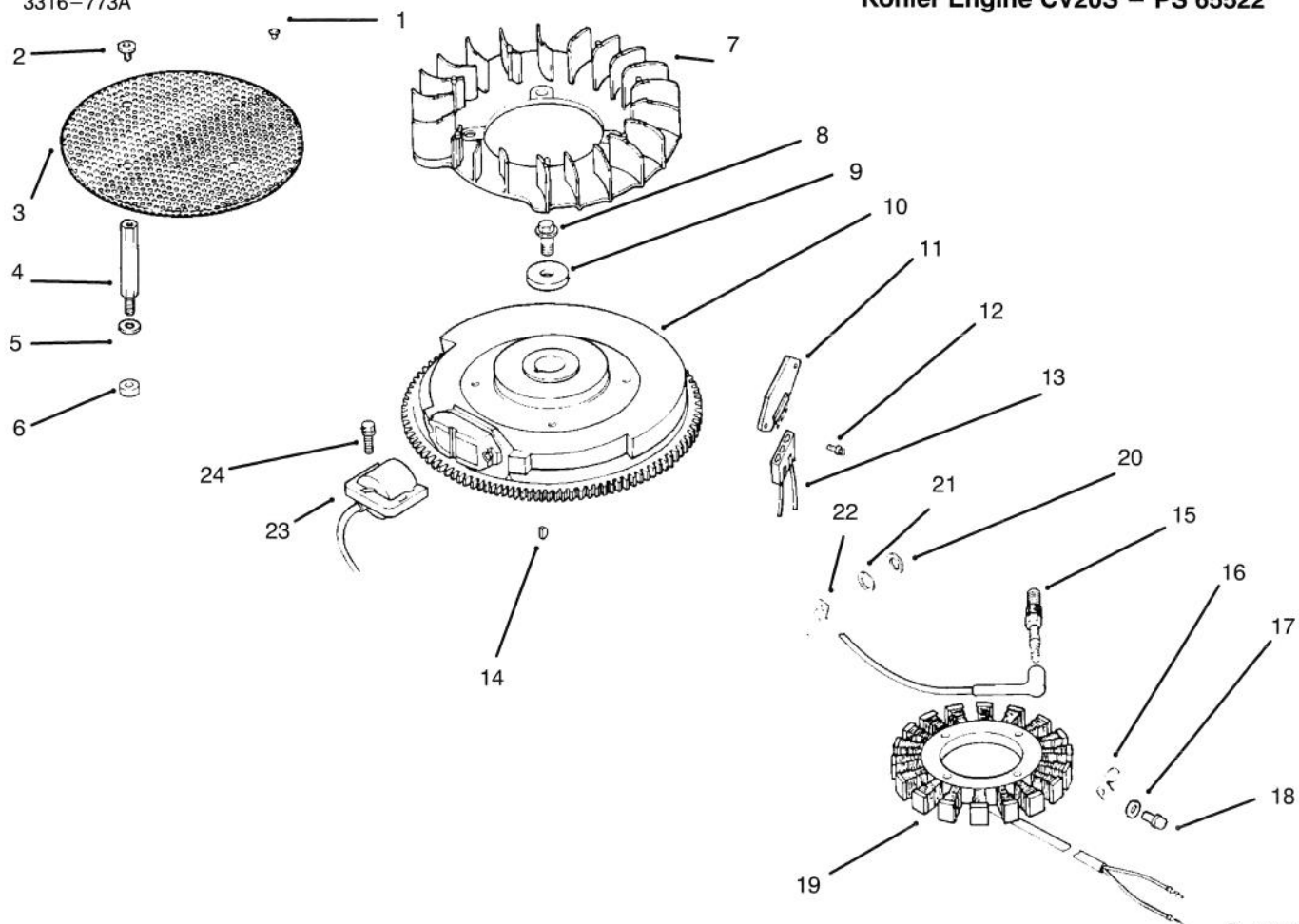


C-2162

HEAD / VALVE / BREATHER

Ref. No.	Part No.	Description	No. Used	Ref. No.	Part No.	Description	No. Used
1	24 318 11	Head Asm. # 1 Cyl.	1	20	24 041 08	Gasket – Cylinder Head	2
2	24 755 76	Kit – Valve Cover/Breather (Incl. Ref.# 3 & 28–30)	1	21	24 318 12	Head Assembly # 2 Cyl.	1
*	24 033 03	Kit – Breather Cover/Gasket (Incl. Ref.#5–6)	1	22	24 146 09	Plate – Guide	2
3	25 313 02	Grommet – Rubber	1	23	SM–0631005	Washer	4
4	24 755 20	Kit – Breather (Incl. Ref.# 3)	1	24	24 186 03	Arm – Rocker	4
5	24 041 23	Gasket – Breather	1	25	24 194 02	Pivot – Rocker Arm	4
6	24 096 15	Cover – Breather	1	26	M–0640034	Screw	4
7	SM–0645020	Screw	4	27	24 755 74	Kit – Valve Cover (Incl. Ref. # 28–30)	1
8	X–75–23	Plug	1	*	24 755 61	Kit – Valve Train (Incl. Ref.#19 & 22–25)	1
9	24 294 01	Fitting	1	28	24 153 11	"O"Ring	1
10	12 755 03	Kit – Retaining	4	29	24 112 08	Spacer	4
11	12 173 01	Cap – Valve Spring	4	30	M–0651030	Screw	4
12	24 089 02	Spring – Valve	4	31	12 086 16	Screw	8
13	235011	Retainer – Spring	4	32	24 445 01	Strap – Lifting	1
14	24 016 01	Valve – Exhaust (Std)	2	*33	24 755 57	Kit – Breather Separator (Incl. Ref. # 34–39)	1
*	24 016 02	Valve – Exhaust (.25)	2	34	24 112 12	Spacer	1
15	24 017 01	Valve – Intake (Std)	2	35	24 126 44	Bracket	1
*	24 017 02	Valve – Intake (.25)	2	36	24 595 02	Separator – Oil Breather	1
16	24 032 05	Seal – Valve Stem	2	37	24 313 02	Grommet – Rubber	1
17	24 326 03	Hose	1	38	24 445 02	Strap – Lifting	1
18	12 351 01	Lifter – Valve	4	39	SM–0545016	Screw	2
19	24 411 04	Rod – Push	4				

*Not Illustrated



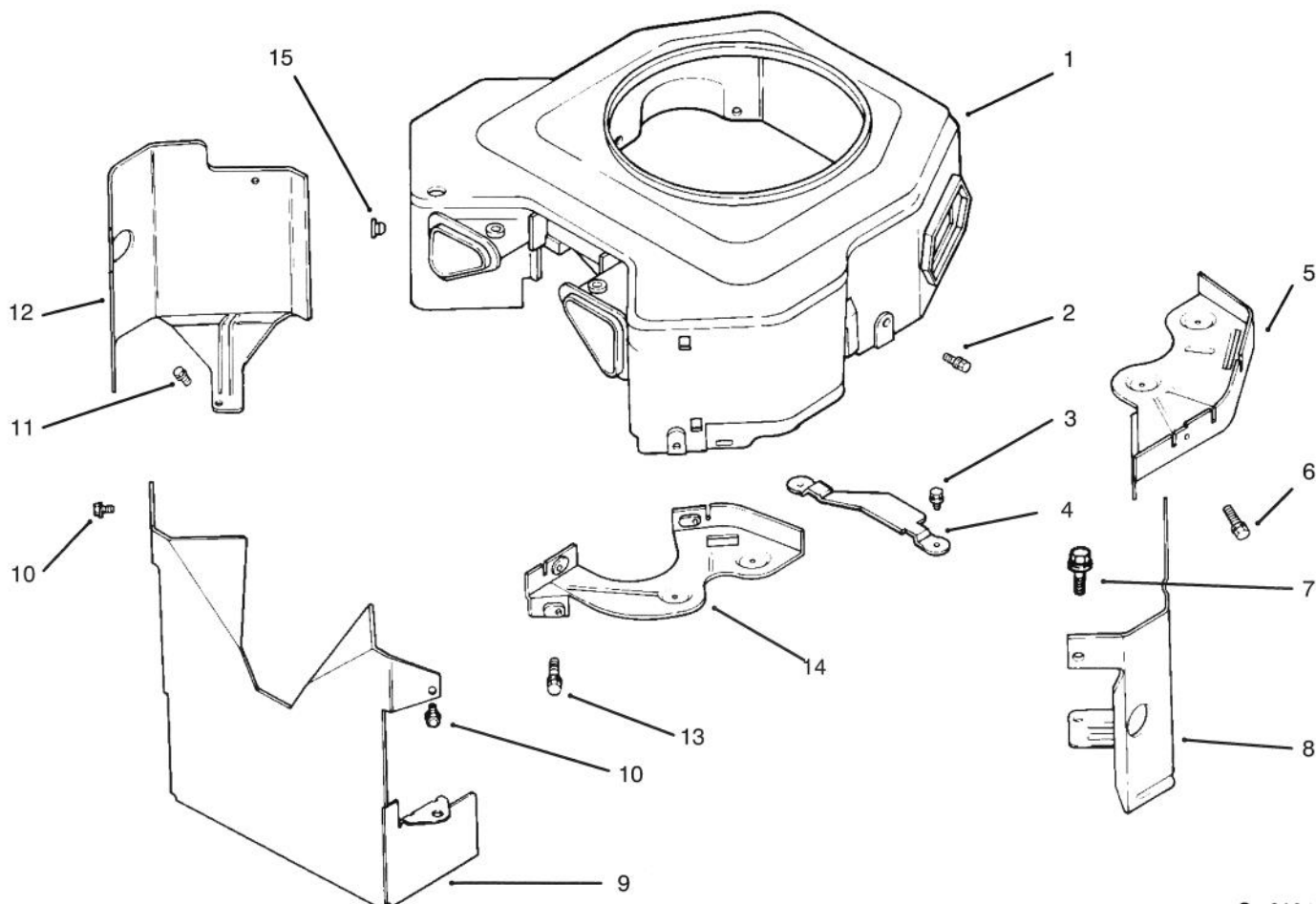
C-2163

IGNITION / ELECTRICAL

Ref. No.	Part No.	Description	No. Used
1	25 086 43	Screw – Set	1
2	M-657010	Screw	4
3	24 162 13	Screen – Grass	1
4	24 072 01	Stud	4
5	X-25-53	Washer	8
6	12 112 01	Spacer – Fan	4
7	24 157 01	Fan	1
8	12 086 14	Screw	1
9	12 468 03	Washer	1
10	24 025 04	Flywheel Assembly	1
11	25 403 03	Rectifier – Regulator	1
12	24 086 18	Screw	2
13	236602	Connector	1

Ref. No.	Part No.	Description	No. Used
14	X-42-15	Key	1
15	12 132 02	Spark Plug	2
16	48 154 02	Clip – Cable	1
17	X-25-63	Washer	1
18	M-0548025	Screw	2
19	24 085 01	Stator – 15 amp	1
20	X-25-92	Washer	2
21	X-25-63	Washer	1
22	235173	Clip – Cable	1
23	24 584 01	Module – Ignition	2
24	SM-0545020	Screw	4
*	24 176 40	Harness – Wiring	1
	24 518 04	Lead – Green	1

*Not Illustrated



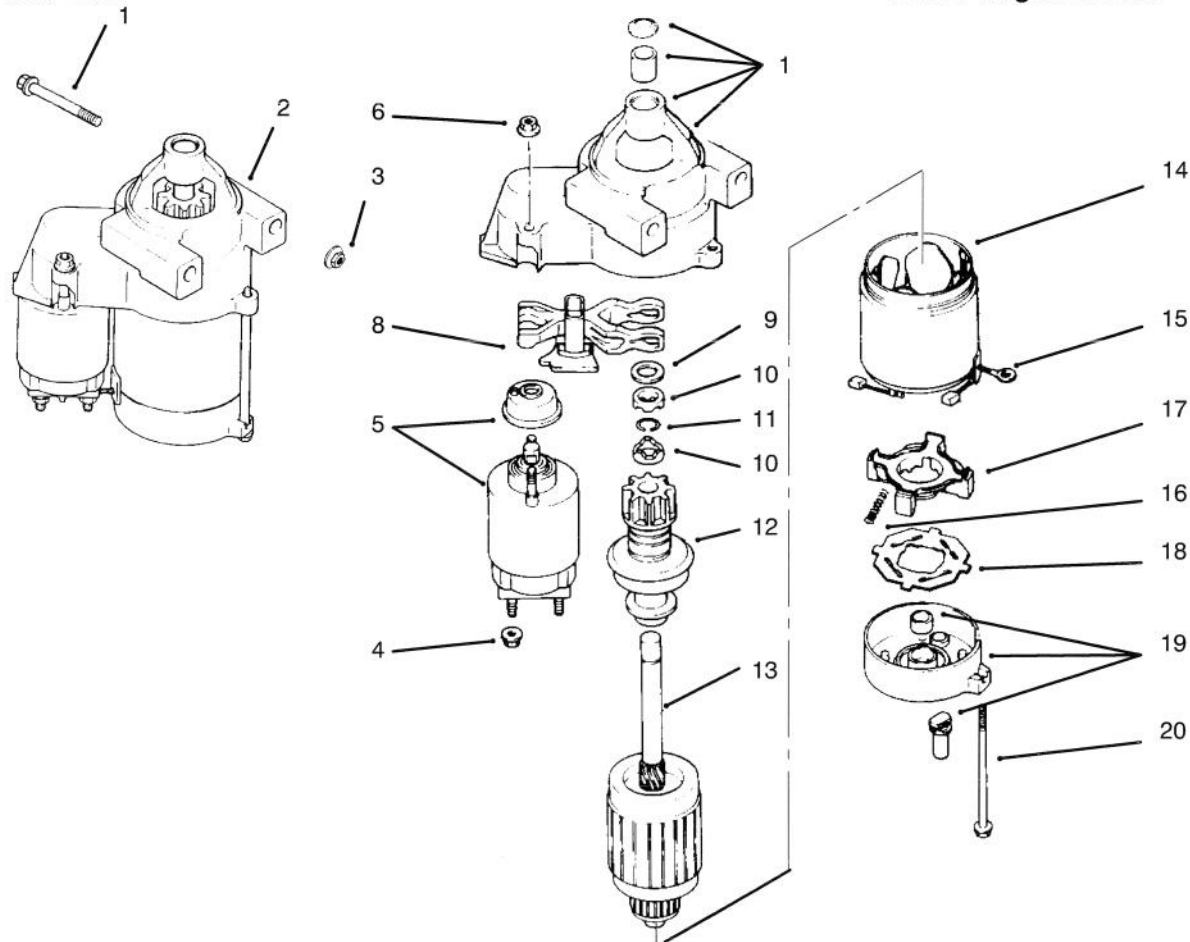
C-2164

BLOWER HOUSING & BAFFLES

Ref. No.	Part No.	Description	No. Used
1		Housing – Blower	1
2		Screw	3
3	SM-0545016	Screw	4
4	24 314 05	Guard – Flywheel	1
5	24 146 02	Plate – Backing # 2 Side	1
6	SM-0545020	Screw	2
7	M-0551016	Screw	1
8	24 063 20	Baffle Cyl. Barrel # 2 Side	1

Ref. No.	Part No.	Description	No. Used
9	24 063 29	Baffle – Valley	1
10	M-0549010	Screw	2
11	M-0549016	Screw	2
12	24 063 19	Baffle Cyl. Barrel # 1 Side	1
13		Screw	2
14	24 146 08	Plate – Backing # 1 Side	1
15	24 100 02	Nut – Plastic	2
*	24 113 12	Decal – Horse Power	1

* Not Illustrated

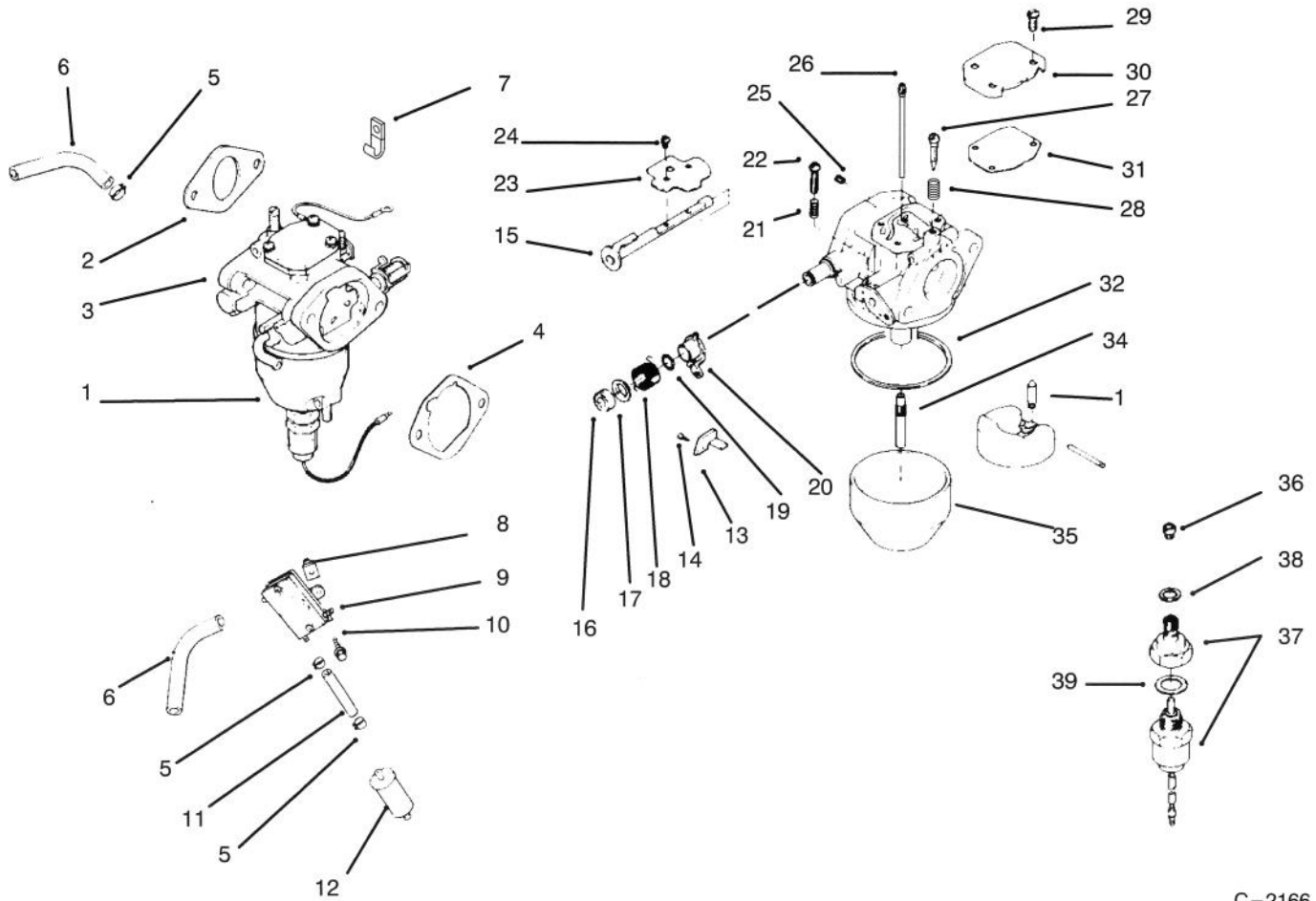


C-2165

STARTING SYSTEM

Ref. No.	Part No.	Description	No. Used
1	M-0839080	Screw	2
2	12 098 03	Starter Solenoid Shift (Incl. Ref. #4-20)	1
3	M-0841080	Nut	1
4	52 100 10	Nut	2
5	12 081 02	Cap – Drive End	1
6	52 100 09	Nut	1
7	52 435 02	Solenoid	1
8	12 090 10	Lever – Starter Drive	1
9	52 468 14	Washer	1
10	52 100 08	Nut	2

Ref. No.	Part No.	Description	No. Used
11	52 141 03	Ring – Retaining	1
12	12 239 01	Pinion – Drive	1
13	12 170 03	Armature – Starter	1
14	12 471 01	Frame	1
15	52 221 01	Kit – Brush (Incl. Ref. #16)	1
16	52 089 09	Spring – Brush	4
17	52 323 03	Holder – Brush	1
18	52 168 01	Insulator	1
19	12 301 01	Cap – Commutator End	1
20	52 211 05	Bolt	2



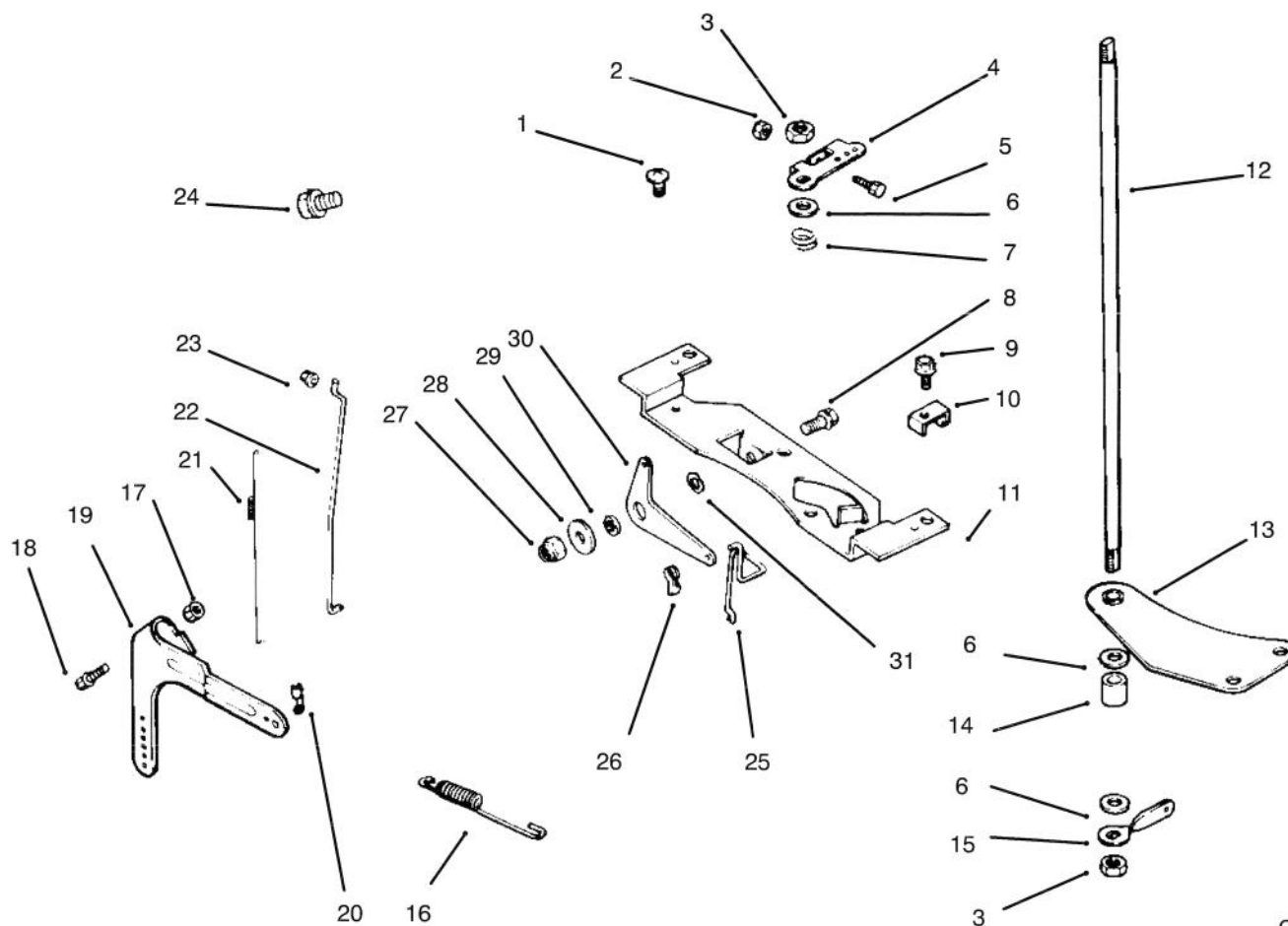
C-2166

CARBURETOR / FUEL PUMP

Ref. No.	Part No.	Description	No. Used
1	24 853 17	Kit – Carburetor / w Gasket (Incl. Ref. #2–4)	1
2	24 041 15	Gasket – Carburetor	1
3	24 053 17	Carburetor (Ref. Only) (Incl. Ref. 15–39)	1
4	24 041 14	Gasket – Air Cleaner	1
5	X-426-9	Clamp – Hose	6
6	52 353 22	Line – Fuel 12"	2
7	47 154 01	Clip – Cable	1
8	24 100 01	Nut – Plastic	2
9	24 393 04	Pump – Fuel	1
10	24 086 12	Screw	2
11	24 353 03	Line – Fuel 10.5"	1
12	25 050 03	Filter – Fuel	1
13		Bracket – Throttle Stop	1
14	M-0259006	Screw	1
15	24 144 15	Shaft – Choke	1
16	24 468 05	Washer	1
17	24 241 01	Collar – Choke	1
18	24 089 22	Spring – Choke Return	1
19	24 141 04	Ring – Choke Lever	1
20	24 090 10	Lever – Choke	1
21	24 089 24	Spring – Throttle Adjust	1
22	24 086 19	Screw – Throttle Adjust	1

Ref. No.	Part No.	Description	No. Used
23	24 462 02	Valve – Choke	1
24	24 086 20	Screw	4
25	24 337 27	Jet – Air Bleed	1
26	24 337 11	Jet – Slow	1
27	24 086 22	Screw	1
28	24 089 23	Spring – idler Screw	1
29	24 086 21	Screw	3
30	24 096 13	Cover – Passage	1
31	24 041 18	Gasket – Passage Cover	1
32	24 041 19	Gasket – Float Chamber	1
*33	24 757 05	Kit – Float Repair	1
34	24 369 01	Nozzle – Main	1
35	24 234 01	Chamber – Float	1
36	24 337 20	Jet – Main	1
37	24 755 15	Kit – Solenoid Valve (Incl. Ref. #38–39)	1
38	24 041 21	Gasket – Chamber Screw	1
39	24 041 20	Gasket – Solenoid	1
*	24 041 15	Gasket – Carburetor	1
*	24 755 25	Kit – High Altitude (1500–3000 Meters)	1
*	24 755 26	Kit – High Altitude (over 3000 Meters)	1
*	24 757 06	Kit – Carburetor Repair	1

* Not Illustrated



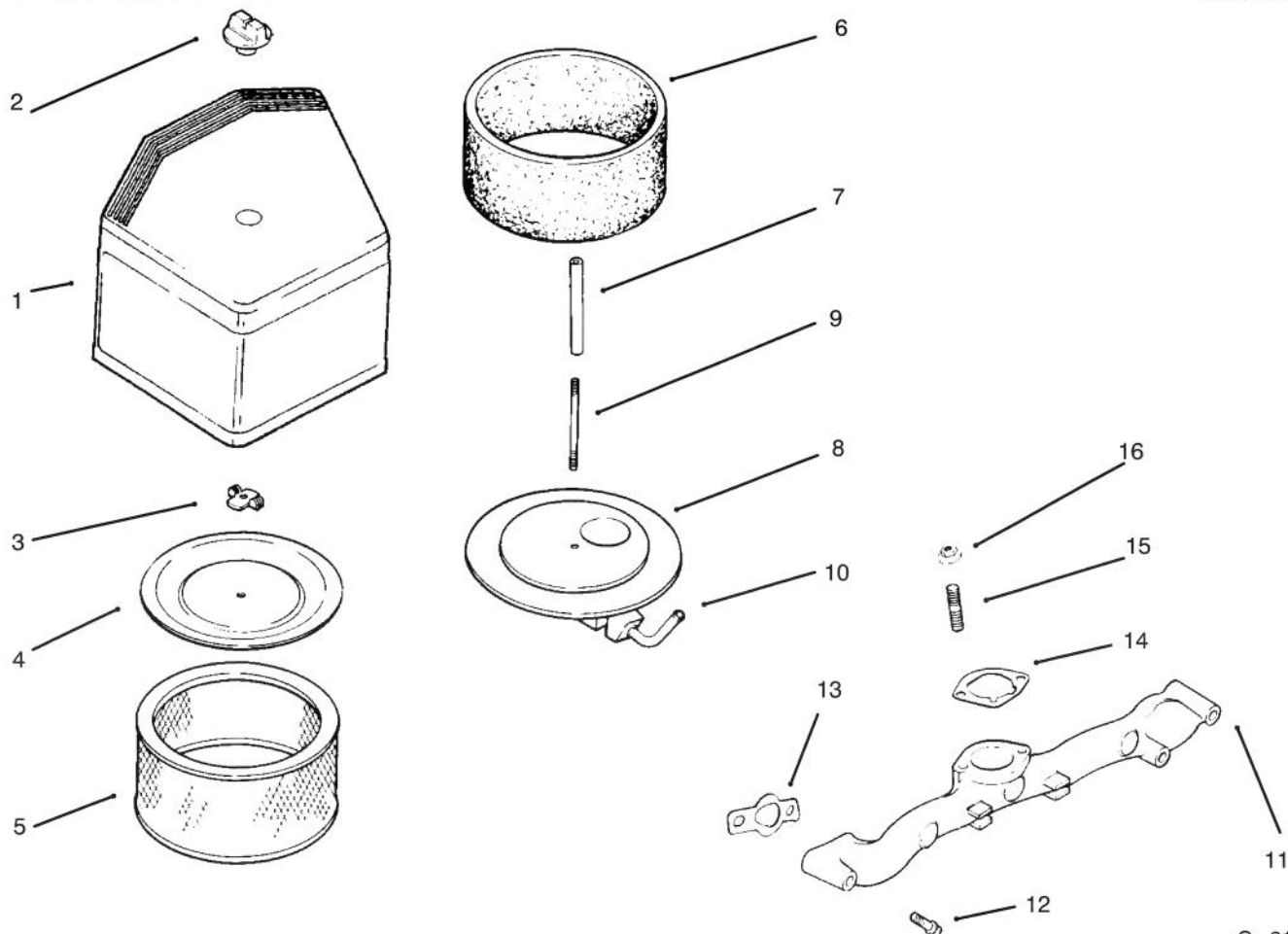
C-2167

ENGINE CONTROLS

Ref. No.	Part No.	Description	No. Used
1	24 086 06	Screw	2
2	M-0446030	Nut	1
3	M-0647060	Nut	2
4	24 090 09	Lever – Throttle Control	1
5	M-0401030	Screw	1
6	X-25-72	Washer	3
7	24 089 20	Spring – Throttle Shaft	1
8	M-0639016	Screw	1
9	SM-054016	Screw	1
10	12 237 01	Clamp – Cable	2
11	24 126 47	Bracket – Control	1
12	24 144 11	Shaft – Throttle	1
13	24 126 17	Bracket – Throttle Shaft	1
14	52 122 10	Spacer	1
15	24 090 12	Lever – Throttle Control	1
16	24 089 18	Spring – Governor	1

Ref. No.	Part No.	Description	No. Used
17	SM-0641060	Nut	1
18	SM-0642025	Screw	1
19	24 090 14	Lever – Governor	1
20	25 158 11	Bushing – Throttle	1
21	24 089 01	Spring – Linkage	1
22	24 079 04	Linkage – Throttle	1
23	25 158 08	Bushing – Linkage	1
24	SM-0645016	Screw	2
25	24 079 08	Linkage – Choke	1
26	25 158 11	Bushing – Throttle	1
27	M-0647060	Nut	1
28	X-25-52	Washer	1
29	25 431 01	Spacer	1
30	24 090 20	Lever – Choke	1
31	277341	Washer	1

*Not Illustrated



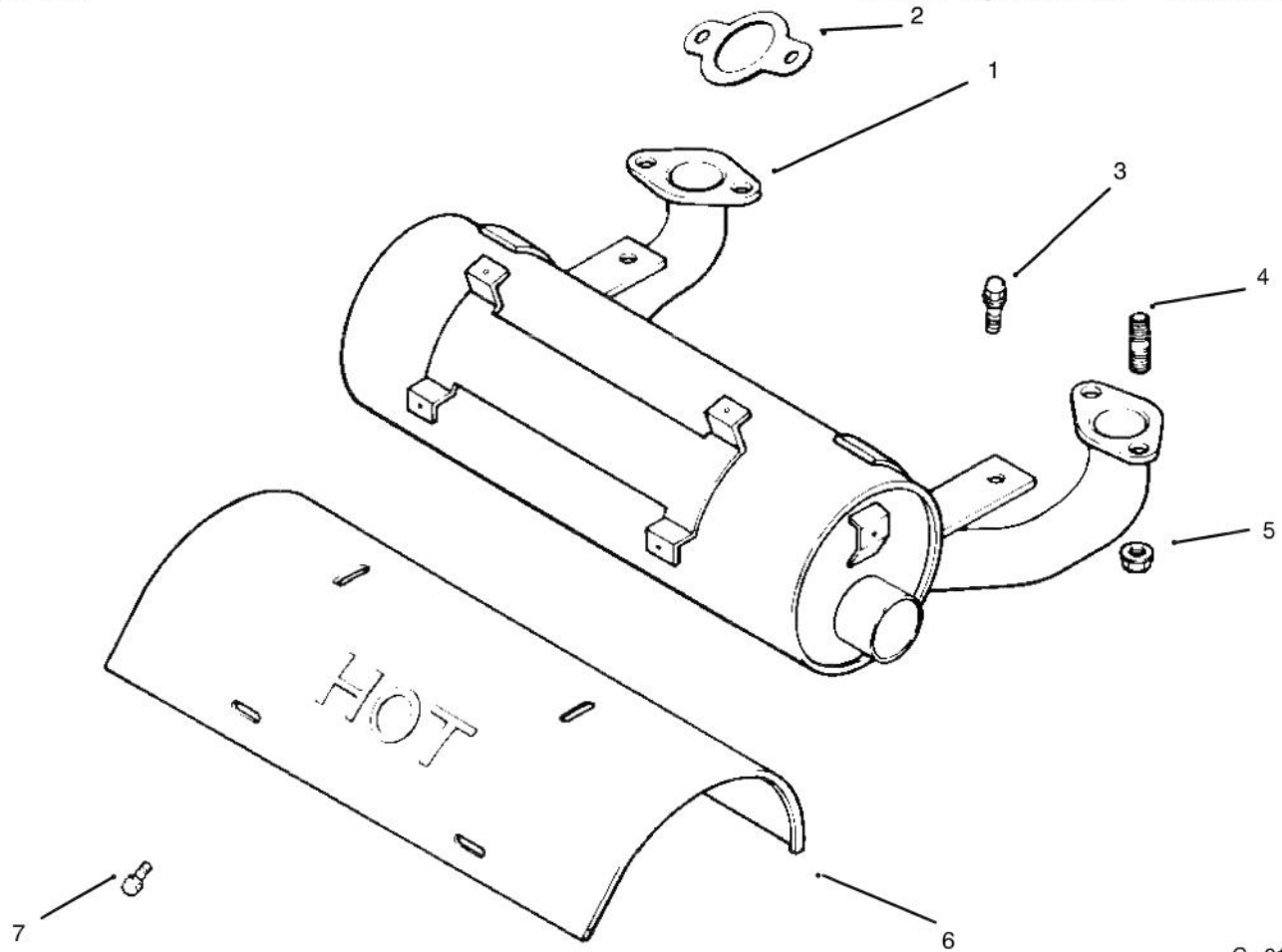
C-2168

AIR CLEANER / FILTRATION

Ref. No.	Part No.	Description	No. Used
1	24 743 10	Kit – Air Cleaner Cover (Incl. Ref.# 2)	1
2	25 341 02	Knob – Cover	1
3	12 100 01	Nut – Wing	1
4	52 082 04	Cover – Element	1
5	45 083 01	Element – Precleaner	1
6	45 083 02	Element	1
7	24 032 04	Seal	1
8	24 054 02	Elbow – Air Cleaner (Incl. Ref. # 9-10)	1

Ref. No.	Part No.	Description	No. Used
9	24 072 04	Stud	1
10	24 294 01	Fitting	1
11	24 164 06	Manifold – Intake	1
12	M-0639055	Screw	4
13	24 041 01	Gasket – intake Manifold	2
14	24 041 14	Gasket – Air Cleaner Base	1
15	M-0629128	Stud	2
16	SM-0641060	Nut	2
*	24 113 14	Decal – Maintenance	1

*Not Illustrated



C-2169

EXHAUST

Ref. No.	Part No.	Description	No. Used
1	24 068 08	Muffler	1
2	24 041 02	Gasket – Exhaust	2
3	SM-0645020	Screw	2
4	M-0829033	Stud	4
5	M-0841080	Nut	4

Ref. No.	Part No.	Description	No. Used
6	24 281 07	Duct – Heat Shield	1
7	25 086 40	Screw	4
*	24 782 05	Miniblock	1
*	24 755 03	Gasket Set	1

*Not Illustrated

TORO PART NUMBER INDEX

Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
112843	Washer - Clutch	2 24 1	82-4070	Bracket Assembly R.H.	4 * 1
608006	Key	2 20 1	82-4090	Bracket Assembly L.H.	4 29 1
12-5950	Rod - Battery Support	9 16 2	82-4110	VBelt	6 49 1
19-4050	Knob - Handle	8 44 1	82-4120	Rod	4 48 2
23-0660	Switch - Ignition	8 47 1	82-4130	Bearing Assembly	4 6 4
27-6230	Bolt - Wheel	2 17 1	82-4140	Bracket - Filter	6 30 1
28-3891	Cable - Battery	9 12 1	82-4160	Spring	4 38 2
29-0590	Screen - Filler	6 22 1	82-4170	Hose - Hydro	6 17 1
29-0642	Trim	1 8 1	82-4170	Hose Assembly	11 2 1
44-5940	Pulley	2 22 1	82-4180	Hose - Hydro	6 16 1
44-8310	Ring - Retaining	3 3 2	82-4180	Hose Assembly	11 3 1
44-8320	Spring	3 10 3	82-4190	Hose - Hydro	6 9 1
44-8330	Spacer - Pulley Bearing	3 6 1	82-4190	Hose - Hydro	1 13 1
44-8340	Collar - Bearing	3 7 1	82-4190	Hose Assembly	11 6 1
44-8360	Field Coil, Rotor & Bearing	3 4 1	82-4191	Hose - Hydro	1 11 1
51-4540	Retainer - Clutch	2 27 1	82-4191	Hose - Hydro	6 27 1
54-0100	Head Assembly - Filter	6 32 1	82-4191	Hose Assembly	11 5 1
54-0230	Field Ass'y	3 1 1	82-4200	Hose - Hydro	6 20 1
54-2970	Spacer	8 3 2	82-4200	Hose Assembly	11 4 1
54-3090	Cable - Battery	9 7 1	82-4201	Hose - Hydro	6 7 1
54-3200	Clutch Assembly	2 23 1	82-4201	Hose Assembly	11 7 1
55-3570	Cap Assembly - Fuel	2 6 1	82-4210	Bracket - Bushing	4 8 1
55-7410	Armature & Pulley Assembly	3 5 1	82-4220	Cooler - Oil	1 4 1
57-5811	Panel - Bottom	8 17 1	82-4230	Arm - Follower	4 16 2
62-4300	Pad - Battery Mount	9 3 1	82-4240	Spacer	4 25 2
62-4540	Pulley - Idler	2 13 1	82-4270	Lever Assembly - L.H.	4 20 1
63-7590	Relay	8 16 1	82-4290	Lever Assembly R.H.	4 9 1
63-8360	Key	8 50 1	82-4300	Handle Assembly	8 29 1
65-3090	Decal - Instructions	8 9 1	82-4330	Detent Arm Assembly L.H.	4 22 1
65-7410	Switch Assembly	4 3 2	82-4340	Detent Arm Assembly R.H.	4 * 1
67-6451	Handle - Upper	8 38 1	82-4370	Bushing	4 23 2
67-8110	Filter - Oil	6 36 1	82-4380	Pulley - Pump	6 50 2
68-2190	Spring	2 16 1	82-4390	Hose - Fuel	2 1 1
68-3810	Tube - Vent	9 14 1	82-4510	Wire Harness (Ref.)	8 39 1
71-1280	Decal - Danger	8 5 1	82-4540	Hose - Hydro	6 5 1
74-0470	Rod - Pivot	8 35 1	82-4540	Hose Assembly	11 9 1
74-0490	Decal - Fuel Shut Off	1 5 1	82-4550	Hose - Hydro	6 6 2
74-0510	Valve - Fuel Shut Off	2 3 1	82-4550	Hose Assembly	11 1 2
74-0521	Fitting - Rod	8 32 2	82-4560	Hose - Hydro	6 12 1
74-0640	Control - Throttle	8 8 1	82-4560	Hose Assembly	11 8 1
74-0720	Tube - Manual	8 13 1	82-4570	Plate - Switch	4 4 2
74-0730	Control - Choke	8 4 1	82-4580	Bracket - Neutral	4 1 2
75-6820	Meter - Hour	8 1 1	82-4590	Decal - Caution	8 30 1
76-0200	Cap Assembly - Oil	6 21 1	82-4600	Decal - Hydro Drive	4 32 2
77-0980	Boot - Terminal	9 10 1	82-4620	Strap - Battery	9 8 1
77-0981	Boot - Terminal	9 11 1	82-4640	Battery	9 5 1
80-0650	Spacer	4 36 2	82-7631	Rod - Control	8 24 2
80-6090	Key	6 51 2	82-7680	Bail Assembly	8 20 1
80-6110	Charge Relief Valve Kit	5 * 1	82-7690	Control Bar Assembly	8 23 1
80-6120	Check Valve Kit	5 1 1	82-7741	Decal - Control Panel	8 52 1
80-6130	Overhaul Seal Kit	5 * 1	82-8220	Pump Assembly	4 11 2
82-2181	Panel - Control	8 51 1	82-8230	Motor - Wheel	6 37 2
82-2190	Switch - Bail	8 19 1	82-8440	Tank - Fuel	2 5 1
82-2300	Switch - Clutch	8 7 1	84-1830	Cap	9 13 1
82-2610	Decal - Control Bar	8 21 1	85-7310	Nut	7 26 1
82-3790	Arm - Pump Control	4 14 2	85-7310	Nut	6 39 2
82-3820	Boot - Switch	8 6 1	85-7320	Kit - Seal	7 * 12
82-3830	Hub - Wheel	6 44 2	86-4730	Plate - Frame	6 54 2
82-3840	Spacer - Latch	8 43 1	86-4740	Spacer	6 53 2
82-3900	Frame Assembly	2 10 1	86-4760	Spring	4 39 4
82-3910	Reservoir - Oil	6 23 1	86-4770	Idler Assembly	2 15 1
82-3920	Stop - Reverse	4 28 2	86-7910	Module	8 14 1
82-3940	Pivot Control Assembly	8 28 1	88-1880	Spring - Compression	2 11 1

*Not Illustrated

TORO PART NUMBER INDEX (Continued)

Part No.	Description	Pg. Ref. No. No. Qty.	Part No.	Description	Pg. Ref. No. No. Qty.
93-1371	Pivot Assembly L.H.	4 40 1	3230-26	Bolt Carriage	8 42 1
93-1372	Pivot Assembly R.H.	4 * 1	3234-5	Washer - Lock	8 48 1
93-1175	Wire Harness	10 1 1	3234-11	Screw - Hex. hd.	8 40 4
93-1176	Spacer - Engine	1 21 2	3245-3	Screw - Set	6 48 4
92-1177	Spacer - Clutch/Engine	2 28 1	3253-3	Washer - Lock	6 29 2
93-1180	Holder - Battery	9 2 1	3253-4	Washer - Lock	2 8 5
93-1183	Mount - Cooler	1 2 1	3253-4	Washer - Lock	6 10 3
218-461	Nut	8 49 1	3255-7	Washer - Lock, Ext.	8 54 1
218-595	Body	8 53 1	3255-8	Washer - Flat	1 19 1
231-117	Tire	6 40 2	3256-1	Washer - Flat	4 15 4
232-27	Valve Stem	6 * 2	3256-1	Washer - Flat	1 7 5
237-7	"O"Ring	2 4 1	3256-23	Washer - Flat	6 52 1
237-30	"O"Ring	6 4A/R	3256-23	Washer - Flat	4 17 4
237-42	"O"Ring	6 14A/R	3256-23	Washer - Flat	2 19 4
237-78	"O"Ring	6 35A/R	3256-23	Washer - Flat	1 22 4
237-79	"O"Ring	6 24A/R	3256-23	Washer - Flat	8 31 2
237-80	"O"Ring	6 2A/R	3257-8	Key - Woodruff	6 38 2
237-124	Grommet	4 43 1	3274-32	Screw - Hex. Hd.	4 27 2
237-141	Grommet	8 22 2	3290-307	Pin - Cotter	8 26 4
240-9	Grommet	1 9 2	3290-378	Tie - Cable	4 2 2
242-50	Nut - Lug	6 42 8	3290-378	Tie - Cable	8 37 2
242-87	Wheel	6 41 2	3296-2	Nut - Lock	8 18 1
2411-34	Joint - Ball	4 19 4	3296-2	Nut - Lock	8 10 4
2412-98	Clamp - Hose	2 2 2	3296-5	Nut - Lock	3 9 3
2412-120	"R"Clamp	8 12 2	3296-6	Nut - Lock	2 9 1
2412-134	"R"Clamp	1 3 2	3296-13	Nut - Lock	4 10 4
2412-136	Clamp Hose	1 10 2	3296-23	Nut	6 1 8
251-259	Bearing - Ball	4 26 2	3296-29	Nut - Hex. Hd.	6 25 2
251-291	Bearing - Pulley	3 8 1	3296-29	Nut - Hex. Hd.	4 42 12
251-292	Bearing - Field	3 2 1	3296-39	Nut - Hex. Hd.	2 18 1
256-156	Bushing	2 14 2	3296-39	Nut - Hex. Hd.	4 24 6
257-5	Washer - Thrust	4 41 2	3296-39	Nut - Lock	9 15 2
283-6	Pin - Clevis	8 33 2	3296-42	Nut - Lock	1 1 2
288-4	Cap - Pipe	1 15 1	3296-42	Nut - Lock	9 11 2
289-42	Nipple - Pipe	1 16 1	3296-42	Nut - Lock	8 15 2
2811-10	Fitting - Elbow	1 14 1	3296-42	Nut - Lock	4 46 8
2815-15	Fitting - Hydro	6 8 1	3296-47	Nut - Lock	4 21 2
2815-16	Fitting - Hydro	6 18 1	32105-1	Screw - Hex. Hd.	8 25 1
321-3	Screw - Hex. Hd.	6 28 2	32105-14	Screw - Hex. Hd.	8 36 4
321-3	Screw - Hex. Hd.	4 31 8	32112-11	Nut - Push On	4 35 8
321-3	Screw - Hex. hd.	8 46 2	32112-17	Nut - Push On	6 43 8
321-8	Screw - Hex. Hd.	4 34 2	32112-18	Retainer - Bolt	8 45 1
321-39	Screw - Hex. Hd.	1 6 4	32121-4	Pin - Roll	4 47 2
322-3	Screw - Hex. Hd.	6 11 3	32121-11	Pushnut	4 49 8
322-3	Screw - Hex. Hd.	6 31 2	32128-10	Nut - Lock	4 37 2
322-3	Screw - Hex. Hd.	9 4 2	32128-21	Nut - Lock	8 41 4
322-3	Screw - Hex. Hd.	2 7 4	32128-42	Nut - Lock	4 12 4
322-5	Screw - Hex. Hd.	4 7 2	32144-1	Screw - Hex. Hd.	4 5 4
322-5	Screw - Hex. Hd.	4 18 4	32144-3	Screw - Hex. Hd.	4 45 4
322-7	Screw - Hex. Hd.	4 13 4	32144-18	Screw - Hex. Hd.	8 2 2
322-10	Screw - Hex. Hd.	2 21 3	32144-19	Screw	8 11 4
322-10	Screw - Hex. Hd.	1 24 3	32149-1	Nut	9 6 2
322-14	Screw - Hex. Hd.	4 30 2	32149-1	Nut - Keps	1 17 1
323-6	Screw - Hex. Hd.	4 33 6	32151-80	Ring - Push On	8 34 2
323-9	Screw - Hex. Hd.	9 1 2	32153-3	Nut - Lock	1 18 4
323-9	Screw - Hex. Hd.	2 12 1	340-4	Fitting - Hydro	6 19 4
323-9	Screw - Hex. Hd.	2 26 1	340-6	Fitting - Hydro	6 3 4
324-5	Screw - Hex. Hd.	4 44 4	354-115	Fitting - Hydro	6 13 2
3212-11	Screw - Hex. Hd.	1 23 1	354-116	Fitting - Hydro	6 15 2
3212-19	Screw - Hex. Hd.	2 25 1	354-117	Fitting - Hydro	6 34 2
3213-8	Screw - Hex. Hd.	6 45 8	354-118	Fitting - Hydro	6 26 2