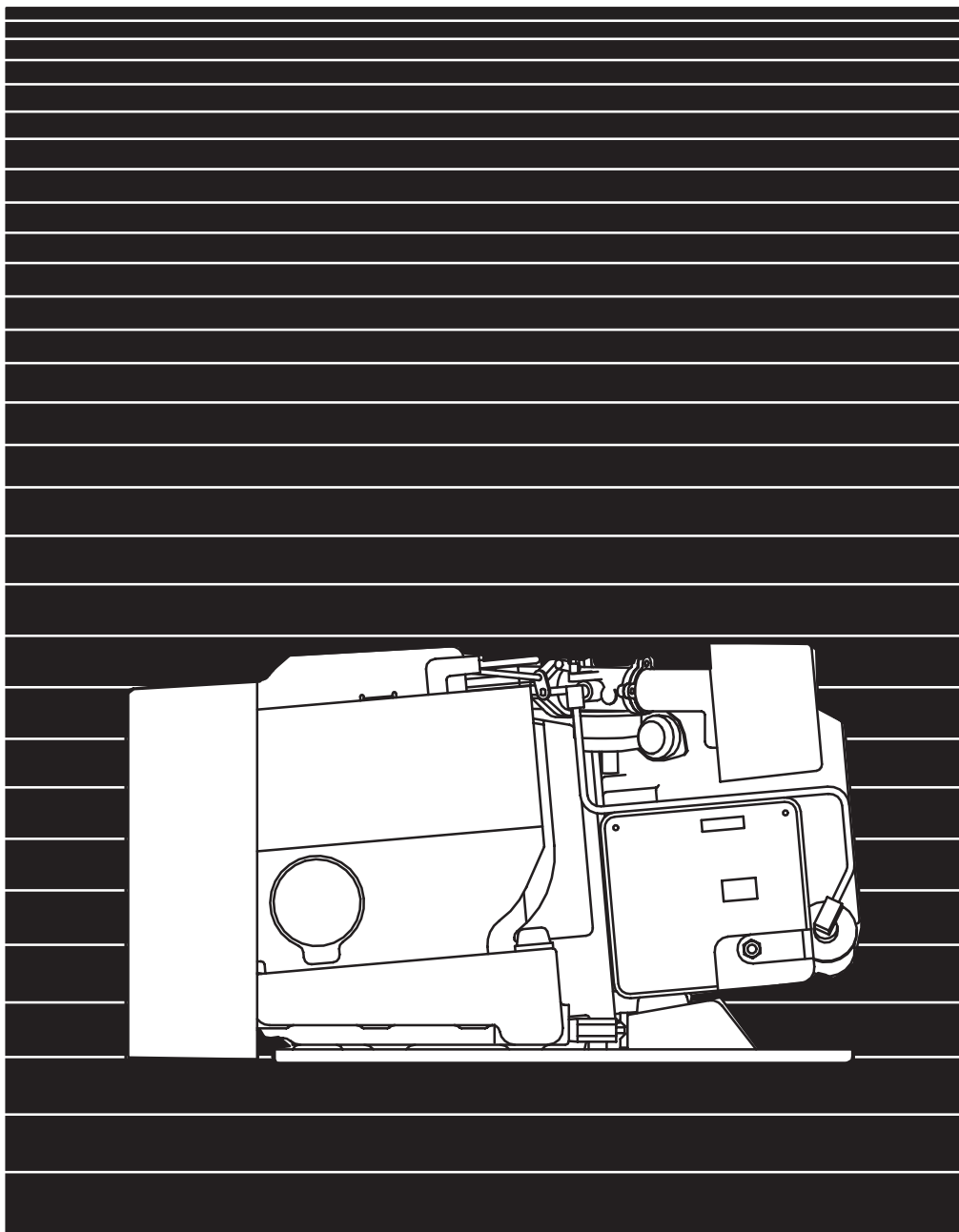


**Onan**

# **GenSet**

## **Parts Manual**

**BGD, BGDL**



Printed in U.S.A.

965-0228  
7-98 (Spec A-M)  
Replaces 11-94 (Spec A-J)

## MODEL IDENTIFICATION

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO. and SERIAL NO. from the Onan nameplate.

For handy reference, insert your nameplate information in the spaces below.

MODEL AND SPEC NO.

SERIAL NO.

DIGITAL CONTROL SOFTWARE VERSION  
AND DATE (IF APPLICABLE)

## SAFETY PRECAUTIONS

The following symbols are used in Onan manuals to alert users to the potentially dangerous conditions relating to maintenance of equipment and replacement of parts. Please read and observe.



*This symbol warns of immediate hazards which will result in severe personal injury or death.*



*This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.*



*This symbol refers to a hazard or unsafe practice which can result in severe personal injury or product or property damage.*

## PRODUCT SAFETY PRECAUTIONS



***Service and repair of Onan equipment must be performed by trained, experienced personnel only. Improper service or repair may result in property damage, severe personal injury or death. Do not use this catalog as a guide to servicing your equipment. Read and follow the IMPORTANT SAFETY INSTRUCTIONS in the Service Manual appropriate for the equipment you are working on.***



***Contact with USED ENGINE OILS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking or changing engine oils take all necessary precautions not to ingest, breathe the fumes or contact the used oil.***



***Contact with ASBESTOS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When handling engine gaskets take all necessary precautions not to ingest, breathe or contact the dust from the gaskets! Use adequate ventilation and wear protective gloves, masks and clothing!***



***Contact with BENZINE and LEAD, found in gasoline, fuel additives and solvents has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking, draining or adding gasoline and fuel additives or using solvents take all necessary precautions not to ingest, breathe the fumes or contact the liquids. Use adequate ventilation and wear protective gloves, masks and protective clothing!***

## Introduction

This catalog applies to the Commercial BGD above floor mounted Generator Sets as listed in the Generator Set Data Table. Parts are arranged in groups of related items and each illustrated part is identified by a reference number corresponding to the same reference number in the parts list. Parts illustrations are typical. Unless otherwise mentioned in the description or the page heading, parts are interchangeable between models. Using the model and specification number from your generator set nameplate, select parts that apply to your set. Right and left sides are determined by facing the engine end (front) of the set.

### Generator Set Data Table

<b>Model Number</b>	<b>Wiring Diagram</b>	<b>Carburetion</b>	<b>Voltage</b>	<b>Hertz</b>	<b>Phase</b>
3.5BGD-FB/1932A	611-1182	LP Vapor	120/240	60	1
3.5BGD-FB/7512A	611-1182	LP Vapor	120/240	60	1
3.5BGD-FB/30503A	611-1182	LP Vapor	120/240	60	1
3.5BGD-FN/1A	611-1182	Gasoline	120/240	50	1
3.5BGD-FN/1932A	611-1182	LP Liquid	120/240	50	1
3.5BGD-FN/1932B	611-1193	LP Liquid	120/240	50	1
3.5BGD-FN/1932C	611-1202	LP Liquid	120/240	50	1
3.5BGD-FN/1932F	611-1210	LP Liquid	120/240	50	1
3.5BGD-FN/1932H	611-1210	LP Liquid	120/240	50	1
3.5BGD-FN/7512A	611-1182	LP Vapor	120/240	50	1
3.5BGD-FN/7512B	611-1193	LP Vapor	120/240	50	1
3.5BGD-FN/7512C	611-1202	LP Vapor	120/240	50	1
3.5BGD-FN/7512F	611-1210	LP Vapor	120/240	50	1
3.5BGD-FN/7512H	611-1210	LP Vapor	120/240	50	1
3.5BGD-FN/30504A	611-1182	LP Vapor Extended Shaft	120/240	60	1
4.0BGD-FA/30502C	611-1202	Gasoline Extended Shaft	120	60	1
4.0BGD-FA/30502F	611-1215	Gasoline/Extended Shaft	120	60	1
4.0BGD-FA/30502H	611-1215	Gasoline/Extended Shaft	120	60	1
4.0BGD-FA/30502J	611-1234	Gasoline/Extended Shaft	120/240	50	1
4.0BGD-FB/1932A	611-1182	LP Liquid	120/240	60	1
4.0BGD-FB/1932B	611-1193	LP Liquid	120/240	60	1
4.0BGD-FB/1932C	611-1202	LP Liquid	120/240	60	1
4.0BGD-FB/1932F	611-1210	LP Liquid	120/240	60	1
4.0BGD-FB/1932H	611-1210	LP Liquid	120/240	60	1
4.0BGD-FB/7512A	611-1182	LP Vapor	120/240	60	1
4.0BGD-FB/7512B	611-1193	LP Vapor	120/240	60	1
4.0BGD-FB/7512C	611-1202	LP Vapor	120/240	60	1
4.0BGD-FB/7512F	611-1210	LP Vapor	120/240	60	1
4.0BGD-FB/7512H	611-1210	LP Vapor	120/240	60	1
4.0BGD-FB/7512J	611-1227	LP Vapor	120/240	60	1
4.0BGD-FB/7512K	611-1227	LP Vapor	120/240	60	1
4.0BGD-FB/30503A	611-1182	LP Liquid/Extended Shaft	120/240	60	1
4.0BGD-FB/30503B	611-1193	LP Vapor/Extended Shaft	120/240	60	1
4.0BGD-FB/30503C	611-1202	LP Liquid/Extended Shaft	120/240	60	1
4.0BGD-FB/30503F	611-1210	LP Liquid/Extended Shaft	120/240	60	1
4.0BGD-FB/30503H	611-1210	LP Liquid/Extended Shaft	120/240	60	1
4.0BGD-FB/30504A	611-1182	LP Vapor/Extended Shaft	120/240	60	1
4.0BGD-FB/30504B	611-1193	LP Vapor/Extended Shaft	120/240	60	1
4.0BGD-FB/30504C	611-1202	LP Vapor/Extended Shaft	120/240	60	1
4.0BGD-FB/30504F	611-1210	LP Vapor/Extended Shaft	120/240	60	1
4.0BGD-FB/30504H	611-1210	LP Vapor/Extended Shaft	120/240	60	1
4.0BGD-FD/7512K	611-1227	LP Vapor	120/240	60	3
4.0BGD-FD/7512L	611-1227	LP Vapor	120/240	60	3

## Generator Set Data Table

<b>Model Number</b>	<b>Wiring Diagram</b>	<b>Carburetion</b>	<b>Voltage</b>	<b>Hertz</b>	<b>Phase</b>
4.0BGD-FN/1B	611-1193	Gasoline	120/240	50	1
4.0BGD-FN/1C	611-1202	Gasoline	120/240	50	1
4.0BGD-FN/1F	611-1215	Gasoline	120/240	50	1
4.0BGD-FN/1H	611-1215	Gasoline	120/240	50	1
4.0BGD-FN/1J	611-1234	Gasoline	120/240	50	1
4.0BGD-FT/1H	611-1224	Gasoline	220/380	50	3
4.0BGD-FT/1M	611-1259	Gasoline	220/380	50	3
4.0BGD-FT/30502F	611-1216	Gasoline	220/380	50	3
4.0BGD-FT/30502H	611-1224	Gasoline	220-380	50	3
4.5BGD-FB/1A	611-1182	Gasoline	120/240	60	1
4.5BGD-FB/1B	611-1193	Gasoline	120/240	60	1
4.5BGD-FB/1C	611-1202	Gasoline	120/240	60	1
4.5BGD-FB/1F	611-1215	Gasoline	120/240	60	1
4.5BGD-FB/1H	611-1215	Gasoline	120/240	60	1
4.5BGD-FB/1J	611-1227	Gasoline	120/240	60	1
4.5BGD-FB/1932L	611-1227	LP Liquid	120/240	60	1
4.5BGD-FB/30502A	611-1182	Gasoline/Extended Shaft	120/240	60	1
4.5BGD-FB/30502B	611-1193	Gasoline/Extended Shaft	120/240	60	1
4.5BGD-FB/30502C	611-1202	Gasoline/Extended Shaft	120/240	60	1
4.5BGD-FB/30502F	611-1215	Gasoline/Extended Shaft	120/240	60	1
4.5BGD-FB/30502H	611-1215	Gasoline/Extended Shaft	120/240	60	1
4.5BGD-FB/30502J	611-1227	Gasoline	120/240	60	1
4.5BGD-FB/51912C	611-1211	Gasoline/Mod Chrg'g Syst	120/240	60	1
4.5BGD-FD/1A	611-1184	Gasoline	120/240	60	3
4.5BGD-FD/1B	611-1192	Gasoline	120/240	60	3
4.5BGD-FD/1C	611-1201	Gasoline	120/240	60	3
4.5BGD-FD/1F	611-1216	Gasoline	120/240	60	3
4.5BGD-FD/1G	611-1224	Gasoline	120/240	60	3
4.5BGD-FD/1H	611-1224	Gasoline	120/240	60	3
4.5BGD-FD/1J	611-1232	Gasoline	120/240	60	3
4.5BGD-FD/30502A	611-1184	Gasoline/Extended Shaft	120/240	60	3
4.5BGD-FD/30502B	611-1192	Gasoline/Extended Shaft	120/240	60	3
4.5BGD-FD/30502C	611-1201	Gasoline/Extended Shaft	120/240	60	3
4.5BGD-FD/30502F	611-1216	Gasoline/Extended Shaft	120/240	60	3
4.5BGD-FD/30502G	611-1224	Gasoline/Extended Shaft	120/240	60	3
4.5BGD-FD/30502H	611-1224	Gasoline/Extended Shaft	120/240	60	3
4.5BGD-FD/30502J	611-1232	Gasoline/Extended Shaft	120/240	60	3
4.5BGD-FD/67403H	611-1231	Gasoline	120/240	60	3
4.5BGD-FD/67404H	611-1231	Gasoline/Extended Shaft	120/240	60	3

\* – The diagonal line (/) in the model and specification number separates generator set characteristics from the specification number and letter. The specification number denotes customer requested options or deviations from a standard (1A, 1B, etc.) model. The specification letter advances (A to B, B to C, etc.) with major manufacturing changes.

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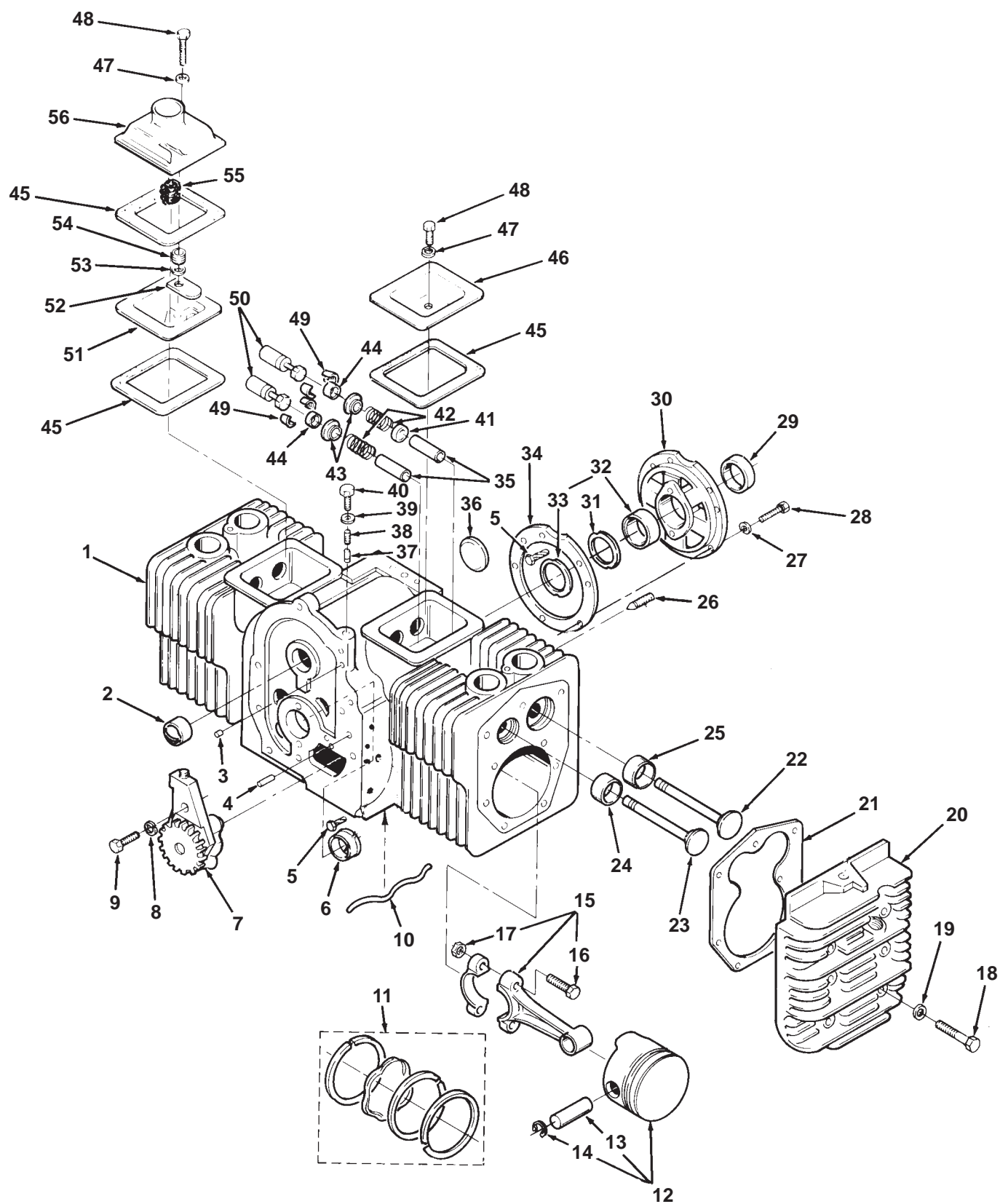
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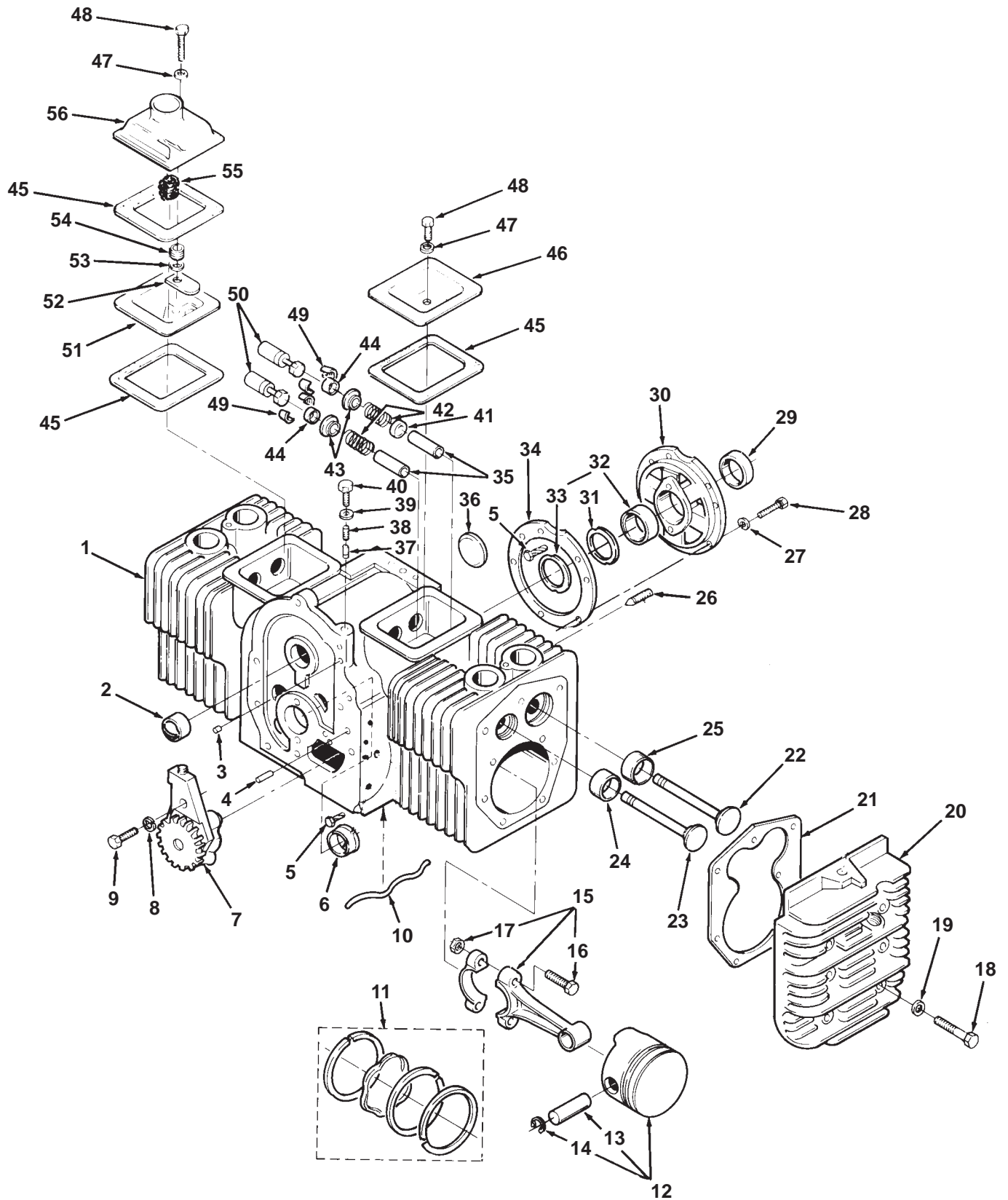
# Cylinder Block



## Cylinder Block

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1		1	Block, Cylinder – Not Sold, Order Shortblock (See ShortBlock Catalog #932-0109)	19	526-0122	18	Washer, Flat (5/16" Screw)
				20			Head, Cylinder
					110-3509	1	Right Side
					110-3508	1	Left Side
2	101-0405	2	Bearing, Camshaft	21	110-3181	2	Gasket, Cylinder Head
3	517-0067	1	Plug, Core Hole	22	110-3479	2	Valve, Intake
4	516-0141	2	Pin, Gear Cover Alignment	23			Valve, Exhaust
5	516-0072	4	Pin, Bearing Stop Drive		110-3515	2	Gasoline
6			Bearing, Front Crankshaft (Flanged)		110-3480	2	LP
	101-0805	1	Standard	24			Insert, Exhaust Valve Seat
	101-0805-02	1	.002" Undersize		110-1824	2	Standard
	101-0805-10	1	.010" Undersize		110-1824-02	2	.002" Oversize
	101-0805-20	1	.020" Undersize		110-1824-05	2	.005" Oversize
	101-0805-30	1	.030" Undersize		110-1824-10	2	.010" Oversize
					110-1824-25	2	.025" Oversize
7	120-0491	1	Pump, Oil	25			Insert, Intake Valve Seat
8	850-0040	2	Washer, Spring Lock (1/4")		110-0197	2	Standard
9	800-0007	2	Screw, Hex Head Cap (1/4-20 x 1")		110-0197-10	2	.010" Oversize
10	120-1320	1	Tube, Cylinder Block Oil	26	803-0071	2	Screw, Socket Set (3/8-16 x 5/8")
11			Ring Set, Piston Spec A-E	27			Washer (3/8")
	113-0314	2	Standard		850-0050	5	Lock – Spec A-E
	113-0314-05	2	.005" Oversize		526-0402	5	Flat – Begin Spec F
	113-0314-10	2	.010" Oversize	28			Screw, Cap
	113-0314-20	2	.020" Oversize		800-0575	5	Flanged Head (Special) Spec A-E
	113-0314-30	2	.030" Oversize		800-0051	5	Hex Head (3/8-16 x 1-1/4")
			Begin Spec F				Begin Spec F
	113-0310	2	Standard	29	509-0041	1	Seal, Crankshaft Rear Oil
	113-0310-05	2	.005" Oversize	30	101-0439-01	1	Plate, Rear Bearing
	113-0310-01	2	.010" Oversize	31	104-0776	AR	Shim, Crankshaft End Play (.005")
	113-0310-02	2	.020" Oversize				Bearing, Rear Crankshaft (Includes Thrust Washer)
	113-0310-03	2	.030" Oversize	32			
12			Piston (Includes Pin and Retaining Rings)		101-0804	1	Standard
	112-0264	2	Standard		101-0804-02	1	.002" Undersize
	112-0264-05	2	.005" Oversize		101-0804-10	1	.010" Undersize
	112-0264-01	2	.010" Oversize		101-0804-20	1	.020" Undersize
	112-0264-02	2	.020" Oversize		101-0804-30	1	.030" Undersize
	112-0264-03	2	.030" Oversize	33	104-0575	2	Washer, Thrust (Special)
13	112-0229	2	Pin, Piston	34	101-0809	1	Gasket, Bearing Plate
14	518-0311	4	Ring, Retaining	35			Guide, Valve
15			Rod, Connecting (Includes Bolt and Nut)		110-3527	2	Exhaust
	114-0397	2	Standard		110-3526	2	Intake
	114-0397-10	2	.010" Undersize	36	517-0048-01	1	Plug, Camshaft Opening Welch (1-5/8")
	114-0397-20	2	.020" Undersize	37	120-0398	1	Plunger, Bypass Valve
	114-0397-30	2	.030" Undersize	38	120-0140	1	Spring, Bypass Valve
16	114-0392	4	Bolt, Connecting Rod	39	526-0066	1	Washer, Copper Flat (3/8" Screw)
17	870-0533	4	Nut, Self-Lock (5/16-24)				
18	800-0571	18	Screw, Hex Head Cap (Special) 2" Long				

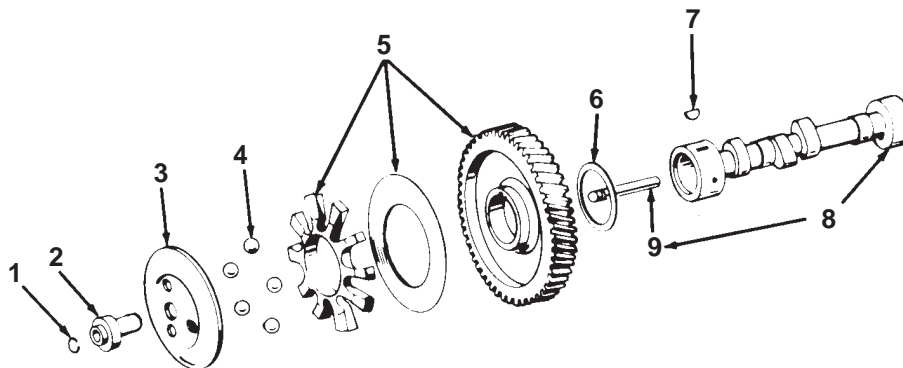
# Cylinder Block



## Cylinder Block

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
40	801-0049	1	Screw, Hex Head Cap (3/8-24 x 7/8") 3.5 psi	49	110-3511	8	Lock, Valve Spring
41	509-0289	2	Seal, Intake Valve	50	115-0006	4	Tappet, Valve
42	110-3485	4	Spring, Valve	51	123-1173	1	Baffle, Breather Valve
43	110-3487	4	Washer, Retaining Valve Spring	52	123-1175	1	Reed, Breather Valve
44	110-3510	4	Cap, Valve	53	526-0018	1	Washer, Flat (1/4" Screw)
45	110-3709	3	Gasket, Valve Cover	54	123-1174	1	Spring, Breather Valve
46	110-1879-01	1	Cover, Right Side Valve	55	123-1871	1	Filter, Breather Tube
47	526-0063	2	Washer, Copper Flat (1/4")	56	123-1649	1	Housing, Breather
48	800-0010	2	Screw, Hex Head Cap (1/4-20 x 1-3/4")				

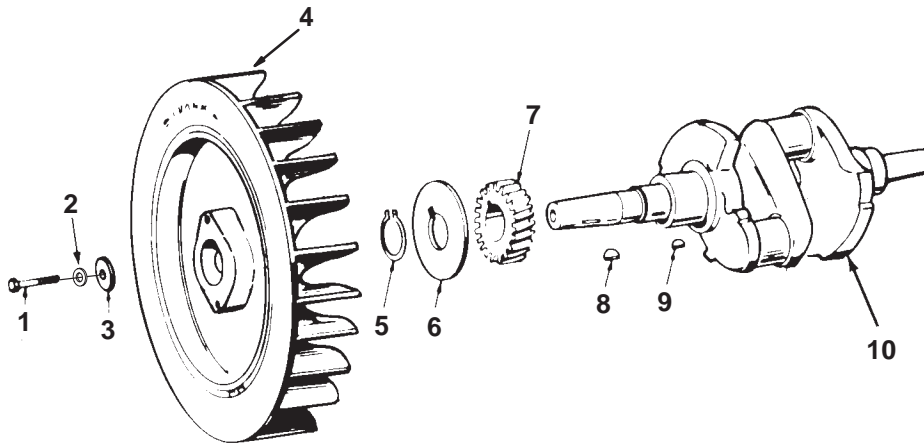
## Camshaft



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-0078	1	Ring, Retaining	6	105-0541	1	Washer, Thrust (Special)
2	150-1519	1	Hub, Governor Cup	7	515-0001	1	Key, Woodruff
3	150-1520	1	Cup and Bushing, Governor	8	105-0637	1	Camshaft (Includes Center Pin)
4	510-0015	10	Ball, Governor	9	150-0075	1	Pin, Center
5	105-0700	1	Gear, Camshaft (Includes Gear, Spacer and Plate)				

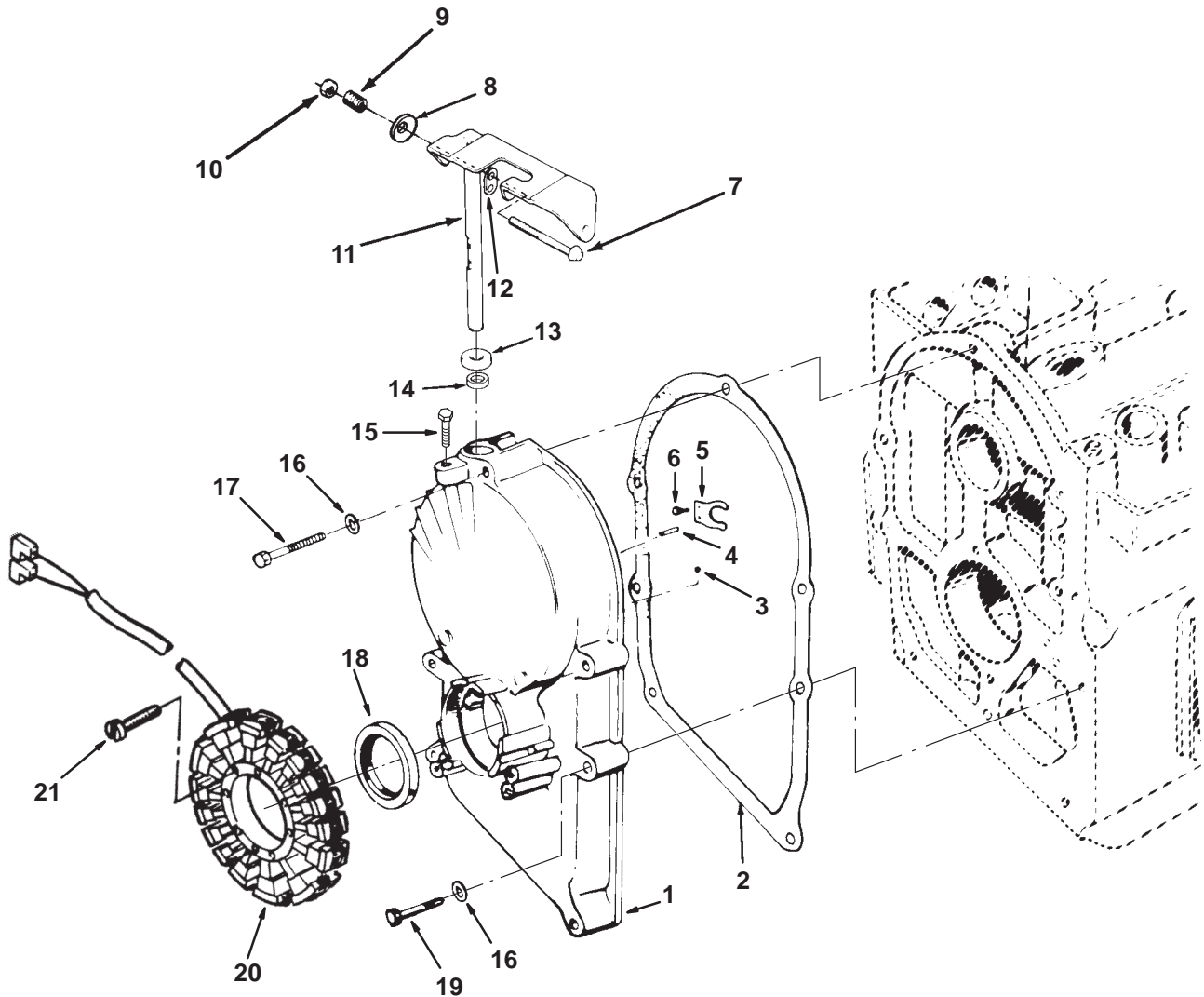


## Crankshaft



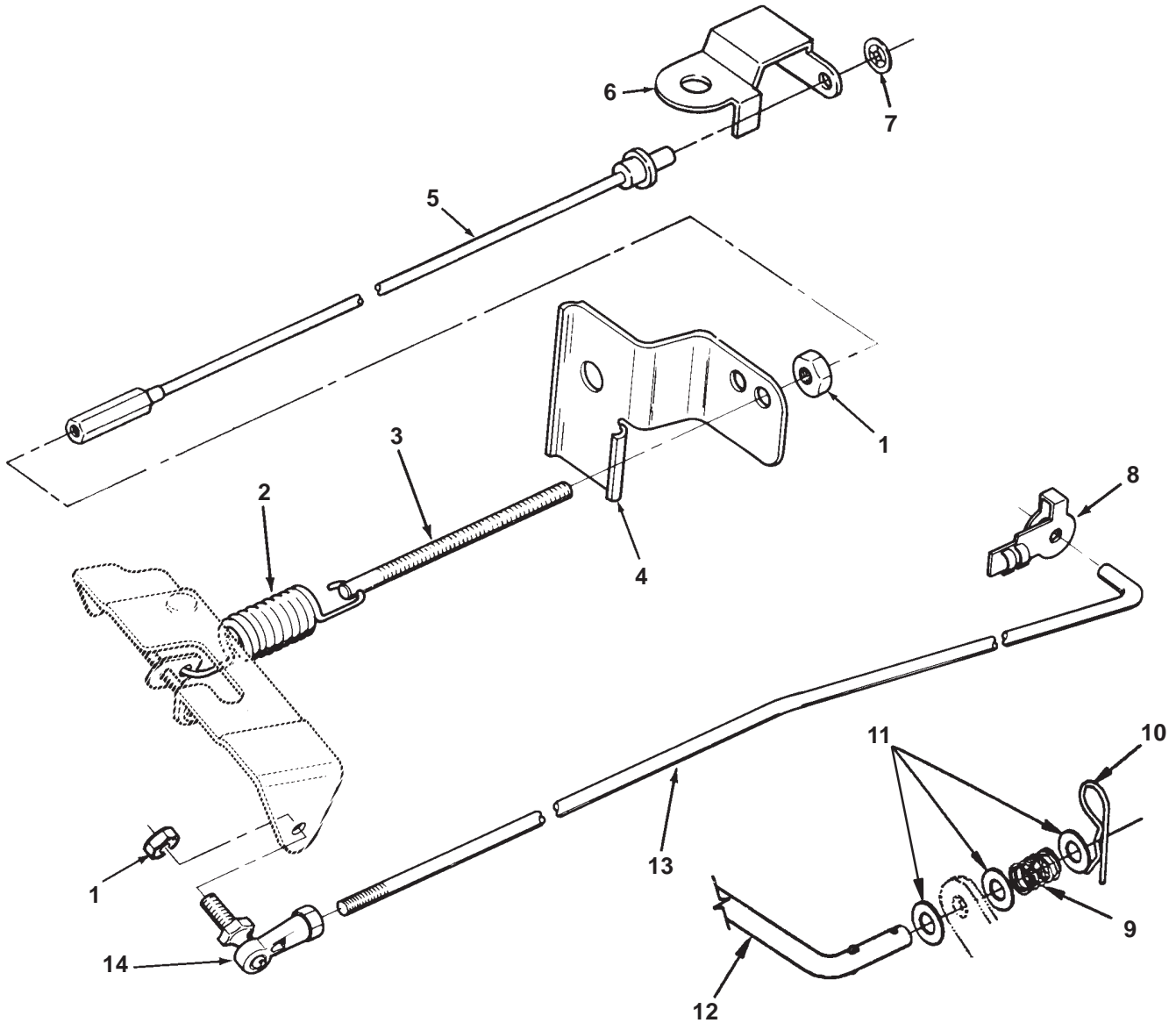
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	104-0170	1	Screw, Hex Head Cap (Special)	6	104-0043	1	Washer, Gear
2	526-0356	1	Washer, Flat (7/16" Screw)	7	104-0032	1	Gear, Crankshaft
3	526-0017	1	Washer, Flat (7/16" Screw)	8	515-0263	1	Kit, Blower Wheel Key (Includes Three Keys – 5/8", 3/4", 1-1/8")
4			Flywheel	9	515-0001	1	Key, Crankshaft Gear
	134-4342-01	1	Spec A-H	10	104-1735	1	Crankshaft
	205-0235	1	Begin Spec J				
5	518-0014	1	Ring, Retaining				

## Gearcase



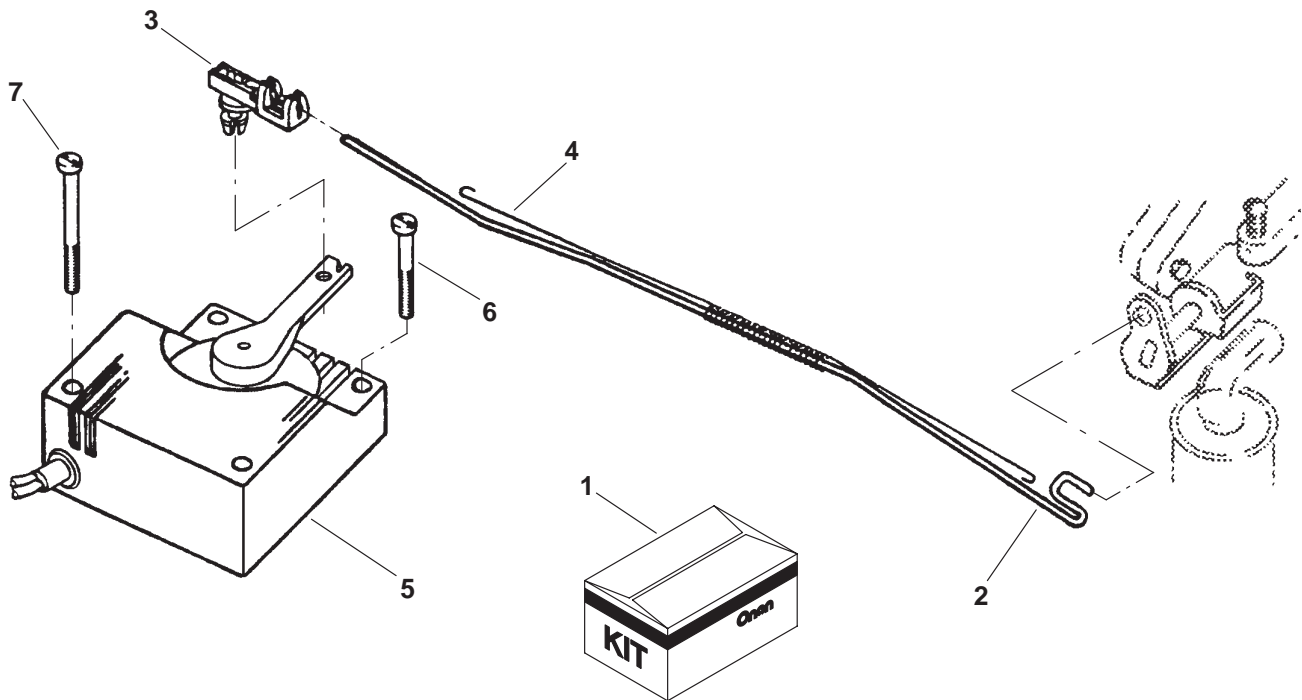
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	103-0772	1	Kit, Gearcase	13	509-0008	1	+*Seal, Governor Shaft Oil
			Spec A-H (Includes Parts Marked *)	14	510-0013	1	+*Bearing, Needle
	103-0822	1	Begin Spec J (Includes Parts Marked +)	15	815-0261	1	+*Screw, Self-Tapping Hex Washer Head (1/4-20 x 7/16")
2	103-0810	1	Gasket, Gearcase Mounting	16	526-0065	5	Washer, Copper Flat (5/16" Screw)
3	510-0014	1	+*Ball, Bearing	17	800-0545	1	Screw, Hex Head Cap (2-3/4" Long) (Special)
4	516-0130	1	+*Pin, Governor Cup Dowel	18	509-0040	1	+*Seal, Crankshaft Oil
5	150-1187	1	+*Yoke, Governor	19	800-0032-01	4	Screw, Hex Head Cap (1-3/4" Long) (Shakeproof)
6	815-0046	2	+*Screw, Pan Head Machine (8-32 x 3/8")	20	191-1456-05	1	Stator (Begin Spec J)
7	820-1077	1	+*Screw, Pan Head (10-32 x 2-1/2")	21	815-0659	3	Screw (Begin Spec J)
8	851-0031	1	+Washer, Conical Disc Spring				
9	141-0710	1	*Spring, Idle Needle				
10	870-0328	1	+*Nut, Self-Lock (10-32")				
11	150-2002-04	1	+*Arm and Shaft, Governor				
12	150-1998	1	+*Link, Governor Spring				

# Governor Spec A-J



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0131	2	Nut, Self-Lock Hex (#10-32)	10	518-0606	1	Clip, Linkage (Begin Spec C)
2	150-1612	1	Spring, Governor	11	150-2589	3	Washer, Friction (Begin Spec C)
3	150-0096	1	Stud, Speed Adjustment	12			Rod, Throttle
4			Bracket, Governor		150-2428	1	Gasoline & LP Vapor
	150-1958-02	1	Gasoline and LP Vapor		150-2468	1	LP Liquid
	150-2298-01	1	LP Liquid	13			Rod, Governor Arm To Carburetor
5	150-2294	1	Cable, Governor Adjust (Begin Spec C)		150-1957	1	Gasoline and LP Vapor
6	150-2295	1	Bracket, Governor Adjust Cable			1	LP Liquid
7	518-0582	1	Retainer, Push-On		150-2493		Spec A,B
8	518-0006	1	Clip, Retaining		150-2079	1	Begin Spec C
9	150-2421	1	Spring, Compression (Begin Spec C)	14	150-0939	1	Joint, Ball

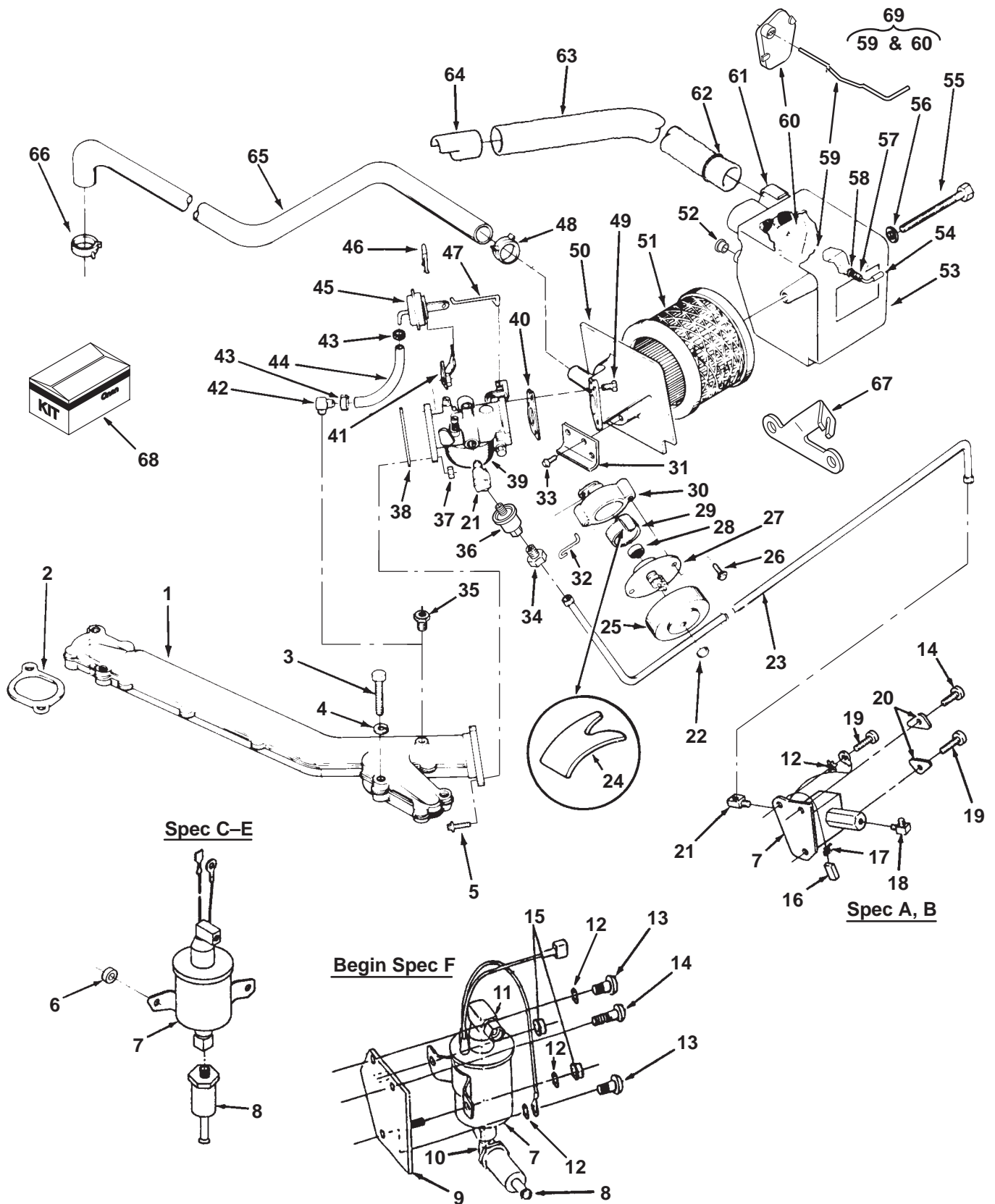
## Electronic Governor Begin Spec K



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	151-0760	1	Kit, Electronic Governor (Includes All Parts Listed on This Page)	140-2308	1	1	Gasket, Air Horn
2	150-2424	1	Rod, Throttle Control	141-0958	1	1	Gasket, Carburetor
3	150-2425	1	Clip, Throttle Rod	146-0631	1	1	Carburetor
4	150-2426	1	Spring, Throttle Rod	150-2707-02	1	1	Bracket, Governor
5	151-0701	1	Actuator, Governor (K2)	150-2723-02	1	1	Plate, Mounting
6	815-0783-01	2	Screw, Pan Head Torx (#10-32 x 1-5/8")	151-0752	1	1	Controller, Governor
7	815-0783-02	2	Screw, Pan Head Torx (#10-32 x 2-1/8")	338-3699	1	1	Harness, Electric Governor
			The Following Parts in Kit are Not Shown:	800-0007	2	2	Screw, Hex Head Cap
	G-334	1	Sheet, Instructions	815-0181	1	1	Screw, Hex Head Thread Cutting
	98-4240	1	Label, Blank Kit Number	815-0261	1	1	Screw, Hex Washer Thread Forming
				818-0237-01	1	1	Rivet, Pop
				870-0065	2	2	Nut, Self-Locking



# Fuel System Gasoline

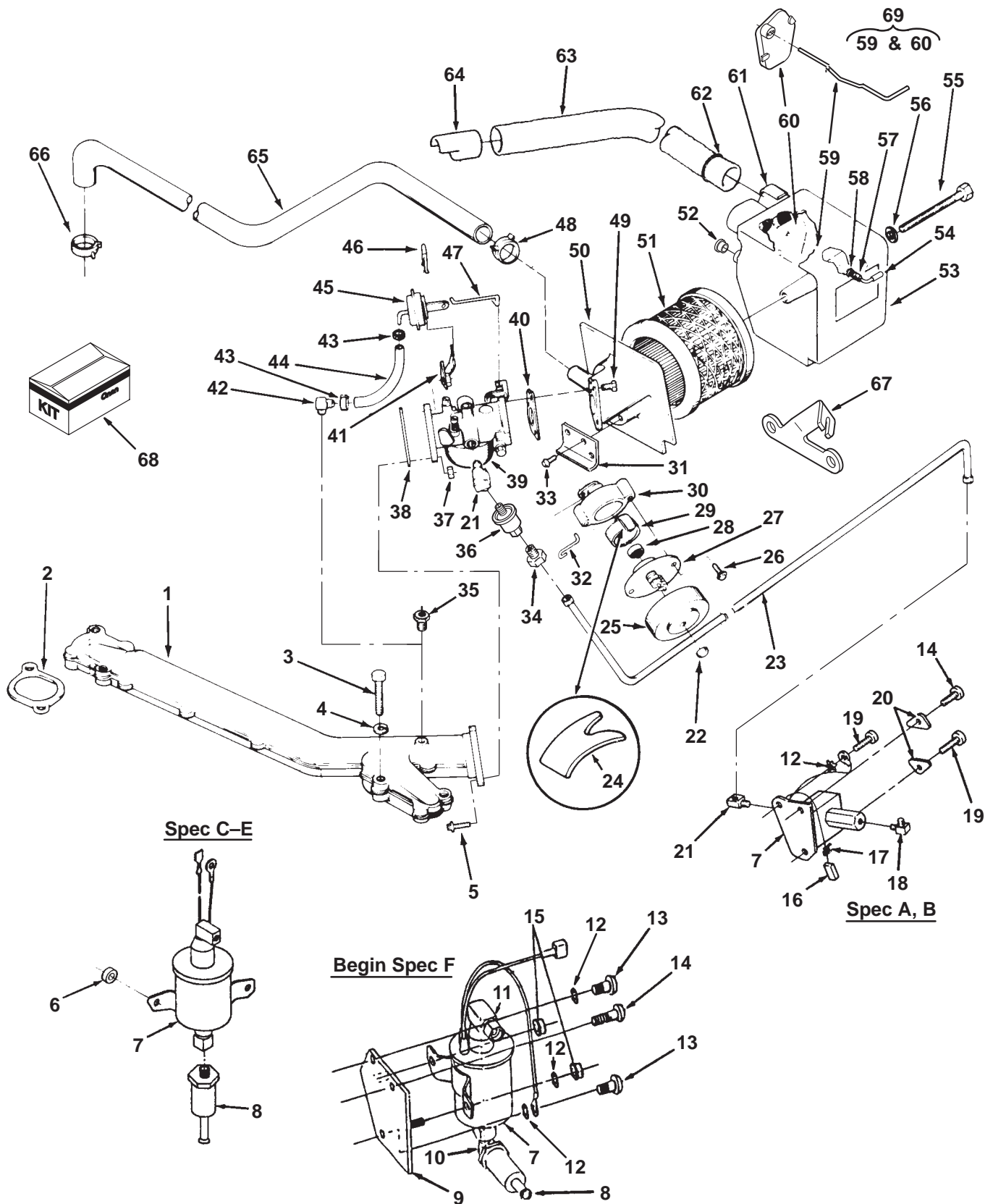




## Fuel System Gasoline

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Manifold, Intake	28	153-0554	1	Bi-Metal, Choke
	154-2447	1	Spec A-J	29	153-0578	1	Tube, Choke Housing
	154-3026	1	Begin Spec K	30	153-0556	1	Housing, Choke (Includes Choke Shaft)
2	154-2495	2	Gasket, Intake Manifold		518-0387	1	Ring, Choke Housing Retainer (Not Illustrated)
3	800-0033	4	Screw, Hex Head Cap (5/16-18 x 2")	31	153-0557	1	Bracket, Choke Housing Mounting
4	850-0045	4	Washer, Spring Lock (5/16")	32	153-0558	1	Linkage, Choke
5	815-0587	2	Screw, Hex Washer Head (Special)	33	815-0591	2	Screw, Hex Washer Head (Special) Spec A-F
6	370-4052	2	Spacer, Fuel Pump Mounting (Spec C-E)	34	502-0003	1	Connector, Inverted Flare Male (Begin Spec B)
7			Pump, Electric Fuel (Includes Mounting Bracket) (E2)	35	502-0028	1	Plug, Brass Pipe (1/8") (Begin Spec F)
	149-2140	1	Spec A,B	36	149-2333	1	Filter, Fuel (Carburetor)
	149-2269	1	Spec C-E	37	862-0015	2	Nut, Hex (5/16-18)
	149-2331	1	Spec F-H	38			Gasket, Carburetor Mounting
	149-2331-02	1	Begin Spec J		141-0950	1	Spec A-E
8	149-1353	1	Filter, Fuel (Fuel Pump)		141-0958	1	Begin Spec F
9	149-2354-02	1	Bracket, Fuel Pump (Begin Spec F)	39			Carburetor (Includes Mounting Gasket) (See Separate Page for Components)
10	502-0020	1	Elbow, Street - 90° (Begin Spec F)		146-0455	1	Spec A-E
11	502-0003	1	Connector, Inverted Male		146-0663	1	Begin Spec F - Automatic Choke
12	856-0006	3	Washer, EIT (1/4")	40	140-2308	1	Gasket, Air Horn
13	815-0782	2	Screw, Pan Head (1/4-20 x 5/8") (Begin Spec F)	41	153-0561	1	Bracket, Diaphragm Mounting
14	815-0692-02	1	Screw, Pan Head (1/4-20 x 1")	42	502-1105	1	Fitting, Vacuum (Intake 90° Manifold To Vacuum Hose)
15	870-0212	2	Nut, Lock Head (1/4-20) (Begin Spec F)	43	503-0813	2	Clamp, Hose
16	338-2361	1	Harness, Fuel Pump (Includes Rectifier) Volt Code FD	44	503-1252	1	Hose, Vacuum (Spec F) (3/16" ID x 3" Long)
17	357-0067	1	Rectifier, Fuel Pump Harness (CR6)	45	153-0576	1	Pull-off, Choke (Spec A-E)
18	502-0313	1	Elbow, 90°	46	518-0450	1	Clip, Diaphragm Mounting Bracket U
19			Screw, Thread Form Torx	47	153-0577	1	Linkage, Choke Pull-off
	815-0290	2	Spec A (1/4-20 x .62")	48	503-1133	1	Clamp, Breather Tube Hose
	815-0772	2	Begin Spec B - Pan Head (Special)	49	815-0590	3	Screw, Hex Head (Special)
20	149-2226	2	Washer, Fuel Pump (Spec A)	50			Adapter, Air Cleaner
	332-0556	3	Connector, Splice - Window - Fuel Pump (Not Shown)		140-2782	1	Spec A-E - Standard
21			Elbow, Inverted Male		140-2725	1	Spec F - Heavy Duty
	502-1108	2	Spec A,B - Heavy Duty		140-2884	1	Begin Spec J
	502-0002	1	Spec C-E - Standard		140-3093	1	* Begin Spec K
	502-1108	2	Begin Spec F - Heavy Duty	51	140-2379	1	Element, Air Cleaner
22	870-0421	1	Nut, Cap (6-32)	52	517-0320	1	Plug, Button (Begin Spec J)
23			Line, Fuel (Includes 2 Inverted Nuts)	53			Housing, Air Cleaner (Includes Label)
	149-2080	1	Spec A		140-2482-01	1	Spec A-H
	149-2289	1	Spec B		140-2883-01	1	* Begin Spec J
	149-2319	1	Spec C-E		140-2962	1	Begin Spec K
	149-2352	1	Begin Spec F	54	517-0223	1	* Cap, Air Inlet Rod
24	518-0466	1	Clip, Choke Housing	55	800-0017	1	Screw, Hex Head Cap (1/4-20 x 3-1/2")
25	153-0579	1	Cover, Choke Housing	56	526-0021	1	Washer, Flat (1/4" Screw)
26	815-0592	2	Screw, Hex Washer Head (Special)	57	120-0140	1	* Spring, Air Inlet Rod
27	153-0555	1	Element and Cover, Choke (H1)	58	526-0002	1	* Washer, Flat (#6 Screw)

# Fuel System Gasoline



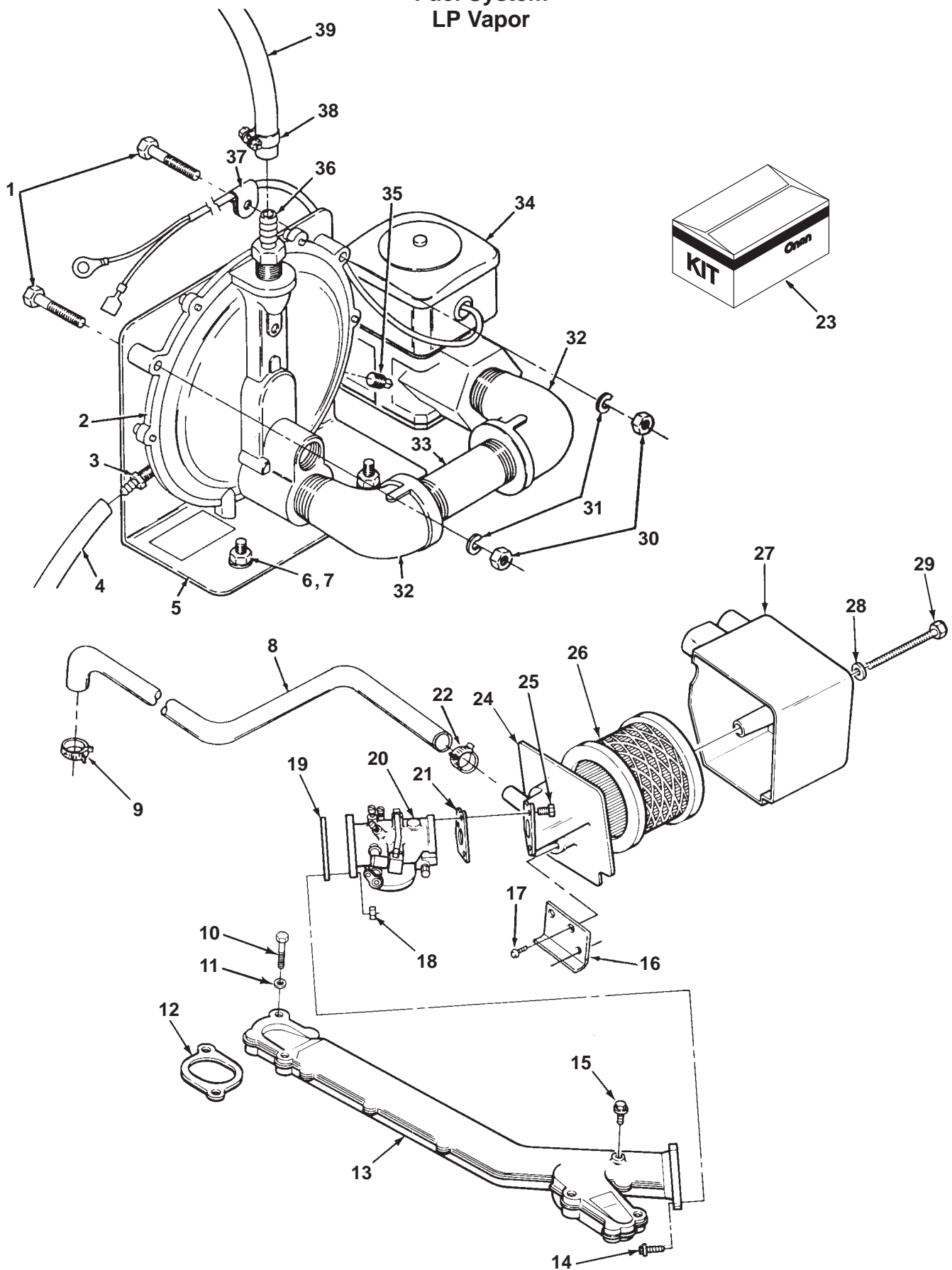
## Fuel System Gasoline

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
59		1	Rod, Air Inlet	67	149-2038	1	Bracket, Fuel Line
	145-0667	1	Spec A-H	68	140-2976	1	Kit, Air Cleaner Housing Assembly (Gasoline)
	145-0707	1	@ Begin Spec J				(Includes Parts Marked *)
60	145-0561	1	@ Cover, Air Inlet	69	145-0704	1	*Rod Assembly, Air Inlet (Includes Rod & Cover Marked @)
61	518-0459	1	Clip, Preheater Hose				
62	509-0313	1	O'Ring (Begin Spec F) (Spec A-J Only)				
63	503-1351	1	Hose, Preheat (Spec A-J Only)				
64		1	Adapter, Preheat Hose				
	140-1919-70	1	Spec A-H				
	140-2915-02	1	Begin Spec J				
65	123-1615	1	Tube, Breather				
66	503-0183	1	Clamp, Breather Tube Hose				

\* – Parts included in Air Cleaner Housing Assembly Kit.

@ – Parts Included in Air Inlet Rod Assembly.

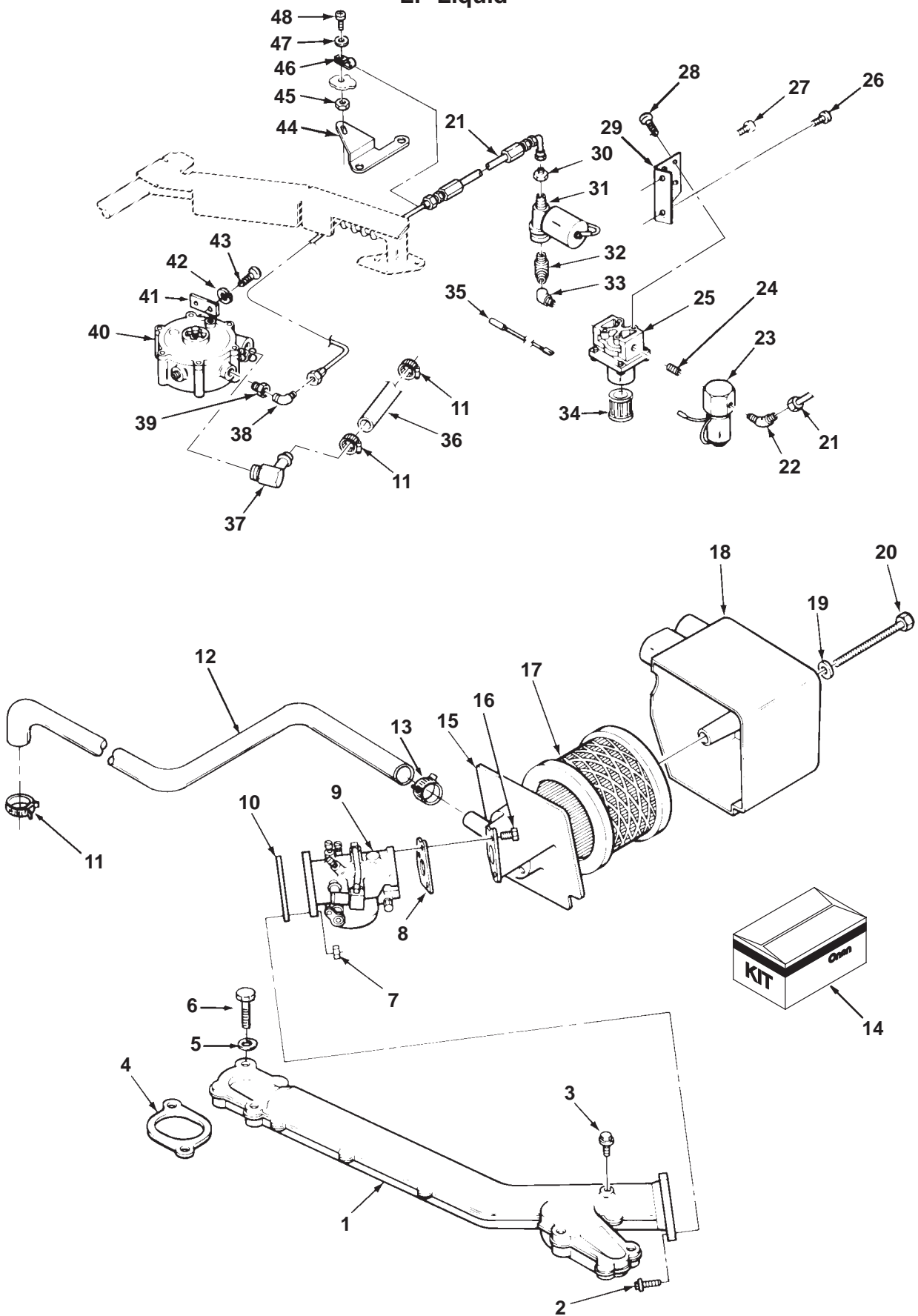
# Fuel System LP Vapor



## Fuel System LP Vapor

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	114-0023	2	Screw, Hex Head Cap (1/4-20 x 1-1/4")	23	140-2977	1	Kit, Air Cleaner Housing Assembly (LP) (Includes Adapter & Housing Marked *)
2			Regulator				
	148-0311	1	Spec A-J	24			Adapter, Air Cleaner
	148-1020	1	Spec K & Up (LPG Vapor)		140-2782	1	Spec A-J
3	502-0395	1	Connector, Hose		140-3093	1	* Begin Spec K
4	503-1016	1	Hose, Oil (Vent) 12" Long	25	815-0590	3	Screw, Hex Head Cap (Special)
5	148-0852	1	Bracket, Gas Regulator	26	140-2379	1	Element, Air Cleaner
6	800-0028	2	Screw, Hex Head Cap (5/16-18 x 1")	27			Housing, Air Cleaner
7	870-0257	2	Nut, Self-Lock Hex (5/16-18)		140-1894	1	Spec A-J
8	123-1615	1	Tube, Breather		140-2962	1	* Begin Spec K
9	503-0183	1	Clamp, Hose (9/16 to 1-1/16")	28	526-0021	3	Washer, Flat (1/4")
10	800-0033	4	Screw, Hex Head Cap (5/16-18 x 2")	29	800-0017	1	Screw, Hex Head Cap (1/4-20 x 3-1/2")
11	740-1006	4	Washer, Flat (M8)	30	862-0001	2	Nut, Hex (1/4-20)
12	154-2495	2	Gasket, Intake Manifold	31	850-0040	2	Washer, Lock (1/4")
13			Manifold, Intake	32	505-0051	2	Elbow, 90° Street
	154-2447	1	Spec A-J	33	505-0332	1	Nipple, Pipe (3/4 x 3.00 Lg)
	154-3026	1	Begin Spec K	34	307-1881	1	Solenoid
14	815-0587	2	Screw, Hex Washer Head (Special)	35	505-0057	1	Plug, Square Head
15	505-1426	1	Plug, Hex Pipe (1/8")	36	502-0238	1	Connector, Hose
16	307-2559-01	1	Bracket, Ignition Relay	37	518-0350	1	Clamp, Insulated (1/4" OD)
17	815-0591	2	Screw, Hex Washer Head (Special) Spec A-F	38	503-0183	2	Clamp, Hose (#4)
18	862-0015	2	Nut, Hex (5/16-18)	39	503-1048	1	Hose, 30" Fuel
19	141-0958	1	Gasket, Carburetor Mounting	* - Parts Included in (LP) Air Cleaner Housing Assembly Kit.			
20			Carburetor (See Separate Page for Components)				
	141-0932	1	Spec A-J				
	146-0727	1	Spec K & Up (LPG Vapor)				
21	140-2308	1	Gasket, Air Horn				
22	503-1133	1	Clamp, Breather Tube Hose				

# Fuel System LP Liquid



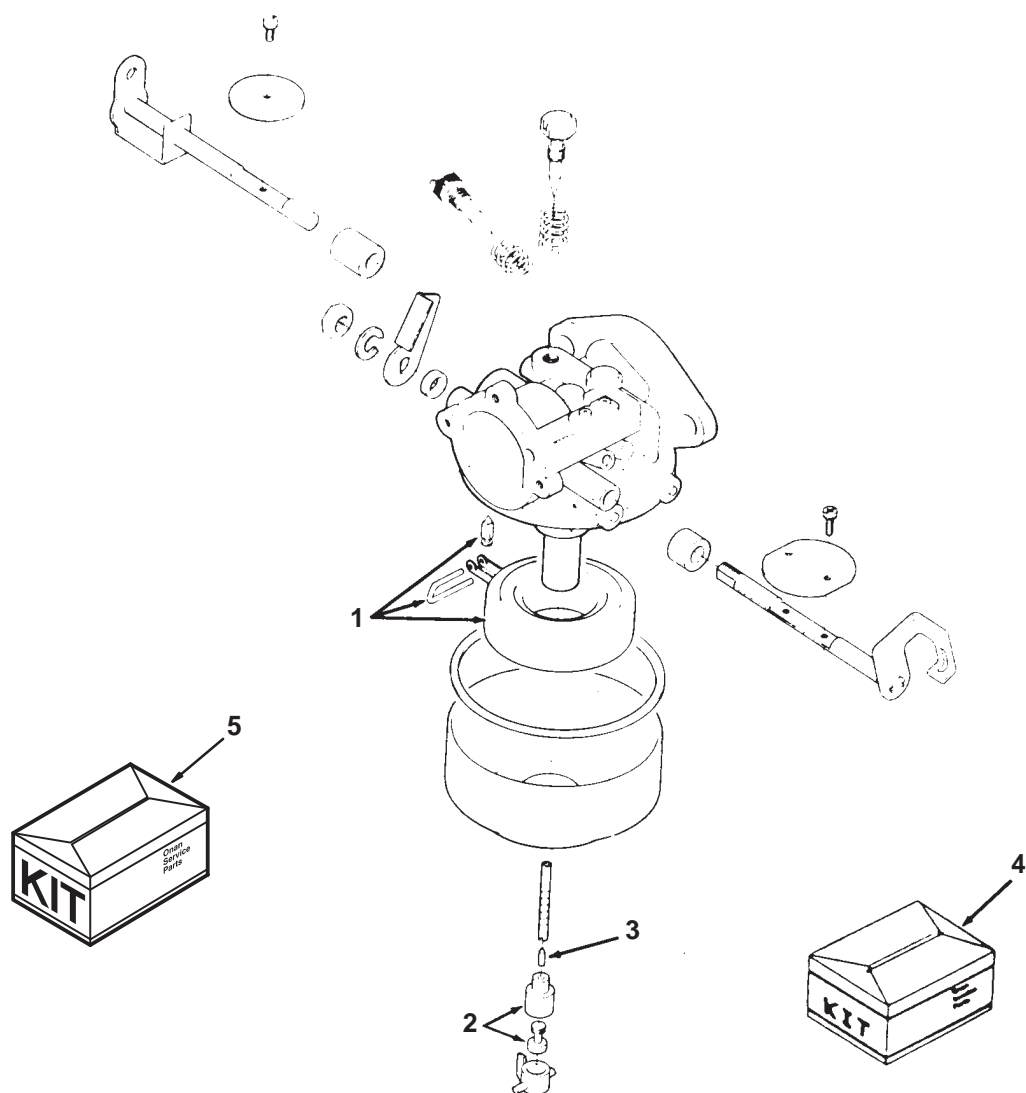


## Fuel System LP Liquid

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-2447	1	Manifold, Intake	26			Screw, Thread Forming (Special)
2	815-0587	2	Screw, Hex Washer Head (Special)	815-0664	1		Spec A
3	505-0274	1	Plug, Hex Pipe (1/8")	815-0782	1		Begin Spec B
4	154-2495	2	Gasket, Intake Manifold	27			Screw, Pan Head (Special)
5	740-1006	4	Washer, Flat (M8)	815-0692-01	1		Spec A
6	800-0033	4	Screw, Hex Head Cap (5/16-18 x 2")	815-0692-02	1		Begin Spec B
7	862-0015	2	Nut, Hex (5/16-18)	28	815-0261	2	Screw, Hex Washer Head (1/4-20 x 1/2")
8	140-2308	1	Gasket, Air Horn	29			Bracket, Filter Mounting (Spec 1932 and 30503)
9			Carburetor (See Separate Page For Components)	148-0896	1		Spec A
	141-0932	1	Spec A-J	148-0903-02	1		Begin Spec B
	146-0723	1	Spec K & Up (LPG Liquid)	30	502-0928-01	1	Adapter, Reducer (Front Outlet - Exhaust Manifold)
10	141-0958	1	Gasket, Carburetor Mounting	31	307-2478	1	Solenoid, Fuel Lock (E2) (Front Outlet - Exhaust Manifold)
11	503-0183	3	Clamp, Hose (9/16 to 1-1/16")	32			Elbow, 90° Male
12	123-1615	1	Tube, Breather	502-0933-01	1		Front Outlet, Exhaust Manifold
13	503-1133	2	Clamp, Breather Tube Hose	502-0054	1		Bottom Outlet, Exhaust Manifold
14	140-2977	1	Kit, Air Cleaner Housing Assembly (LP) (Includes Adapter & Housing Marked *)	33	502-0932-01	1	Elbow, 45° Street (Front Outlet, Exhaust Manifold)
15			Adapter, Air Cleaner	34	148-0898	1	Element, Fuel Filter
	140-1889	1	Spec A-J	35	336-9679	1	Lead, Filter Mounting Bracket
	140-3093	1	* Begin Spec K	36	503-1365	1	Hose, Fuel (7-1/2" Long)
16	815-0590	3	Screw, Hex Head Cap (Special)	37	502-0935	1	Elbow, 90°
17	140-2379	1	Element, Air Cleaner	38	502-0838	1	Elbow, 90° Reducing
18			Housing, Air Cleaner	39	502-0927-01	1	Bushing, Reducer (3/8 x 1/4")
	140-1894	1	Spec A-J	40			Regulator, LP Liquid
	140-2962	1	* Begin Spec K	148-0893	1		Spec A-J
19	526-0021	1	Washer, Flat (1/4" Screw)	541-0532	1		Spec K & Up (LPG Liquid)
20	800-0017	1	Screw, Hex Head Cap (1/4-20 x 3-1/2")	41	148-0897	1	Washer, Regulator Mounting
21			Line, Fuel	42	850-0040	2	Washer, Lock (1/4")
	501-0497	1	With 90° Swivel (13-1/2" Long)	43	815-0647	2	Screw, Hex Washer Head (1/4-20 x 5/8")
	501-0525	1	Without Swivel (17-1/4" Long)	44	149-2032-01	1	Bracket, Fuel Line
22	502-0965-01	1	Elbow, 45° Reducing (Bottom Outlet, Exhaust Manifold)	45	870-0221	1	Nut, Hex (8-32)
23	307-2501	1	Valve, Fuel Shutoff (Bottom Outlet, Exhaust Manifold)	46	503-1190	1	Clamp, Hose
24	502-0929-01	1	Nipple, Close (Bottom Outlet, Exhaust Manifold)	47	526-0003	1	Washer, Flat (#8)
25	148-0890	1	Filter, LPG (Includes Element and O-Rings)	48	815-0176	1	Screw, Hex Head Machine (8-32 x 1/2")

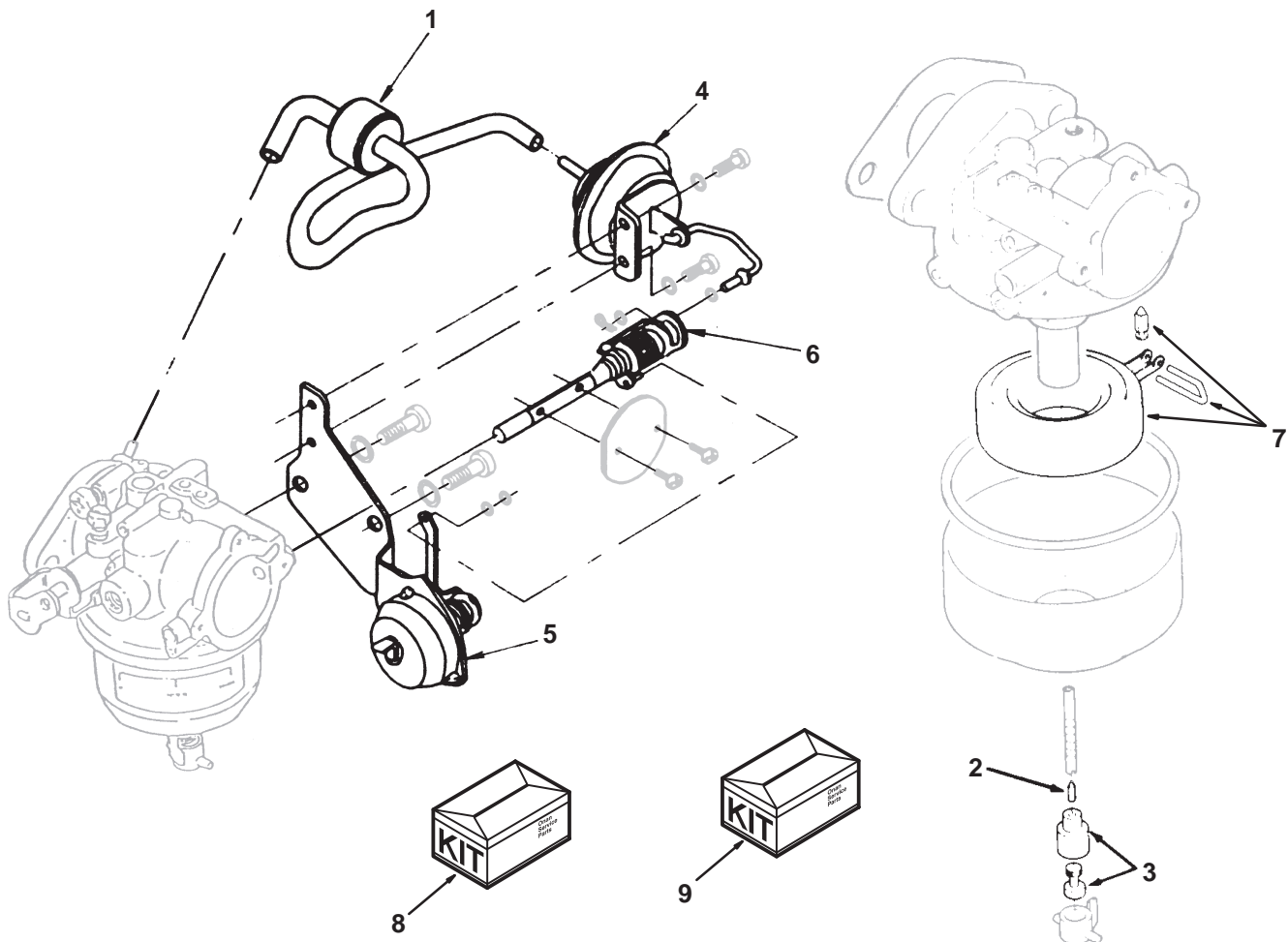
\* - Parts Included in (LP) Air Cleaner Housing Assembly Kit.

# **Carburetor Components** **Gasoline** **(Spec A-E)**



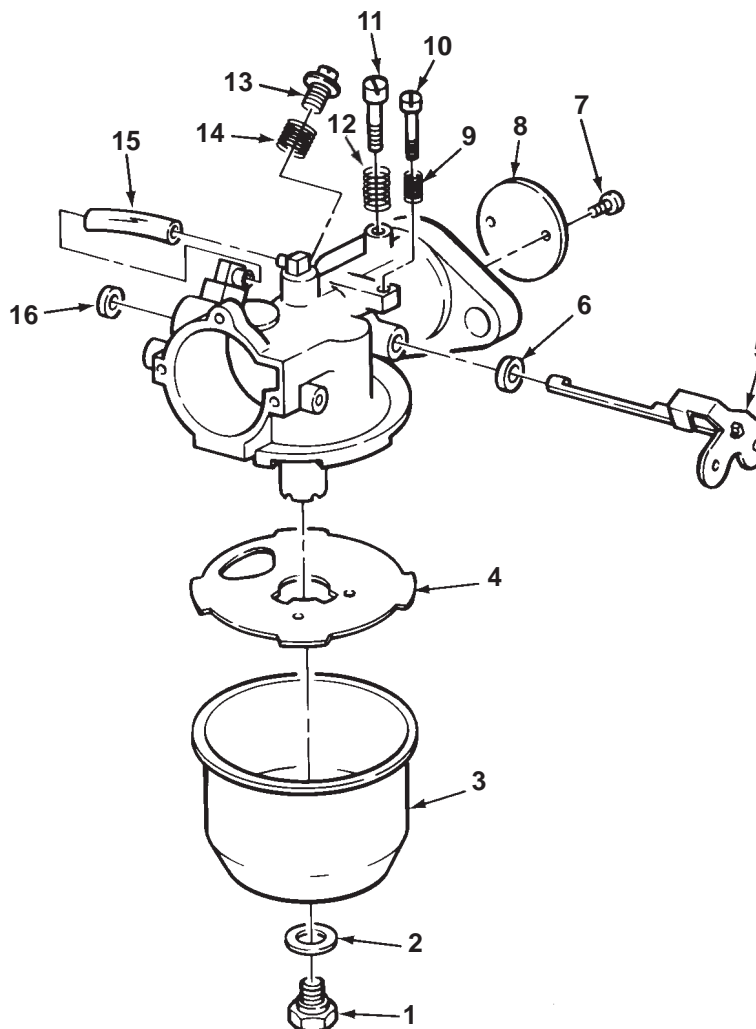
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	146-0455	1	Carburetor, Complete
1	146-0453	1	Kit, Float (Includes Float, Pin, Valve and Set Screw)
2	146-0450	1	Jet, Main
3	146-0449	1	Jet, Idle
4	146-0457	1	Kit, Repair (Includes Air Horn Gasket, Flange Gasket, Float Chamber Gasket, Float Valve, Idle Adjust Spring, Idle Adjust Screw, Idle Adjust Cap, Power Limiter Cap, Power Jet Assembly Gasket, Throttle Stop Spring, Throttle Stop Screw, Throttle Adjust Screw and Throttle Adjust Screw Nut)
5	146-0586	1	Kit, Conversion Enhancement (See Page 71)

# **Carburetor Components** **Gasoline** **(Begin Spec F)**



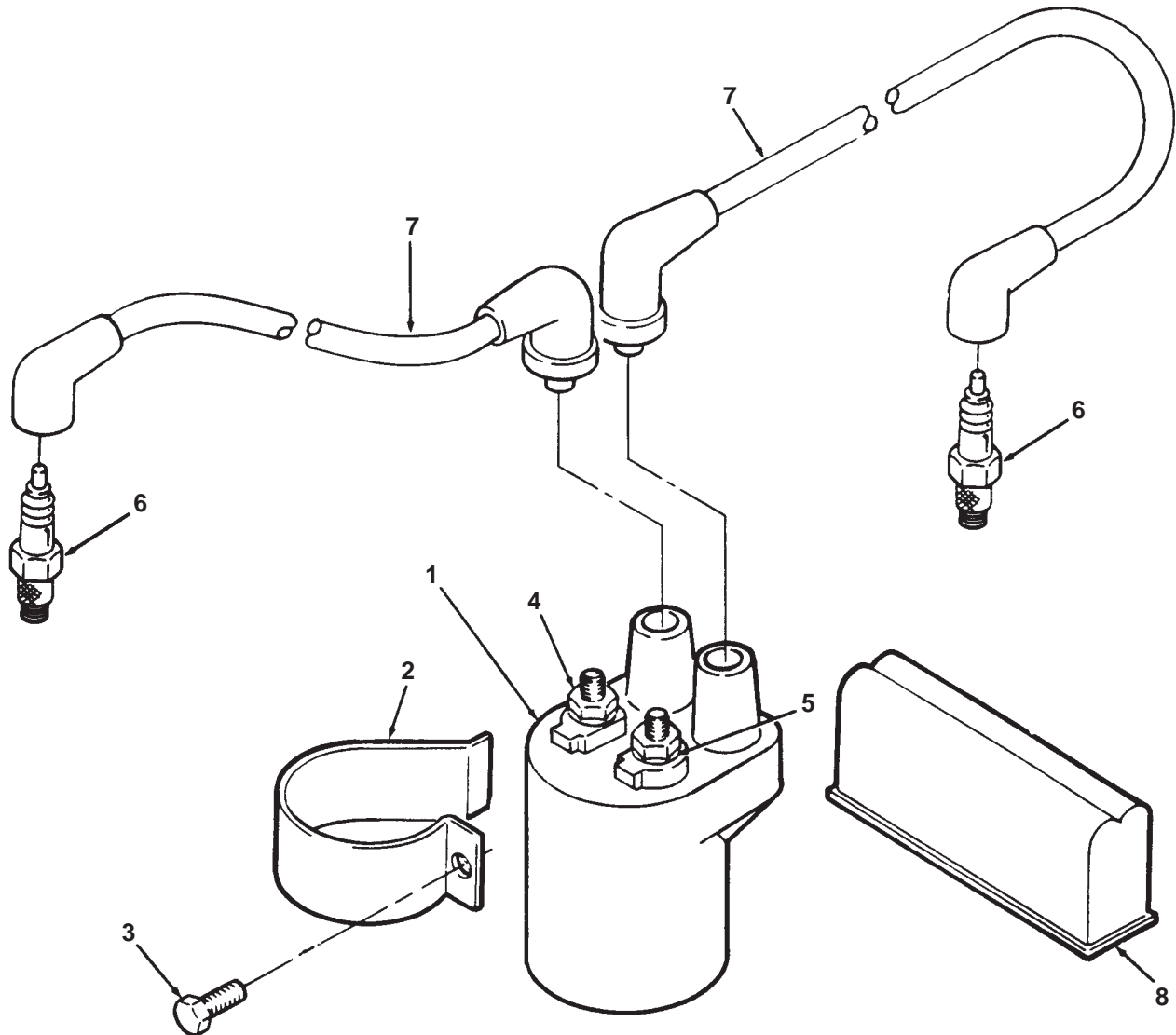
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	146-0663	1	Carburetor, Complete	7	146-0453	1	Kit, Float (Includes Float, Pin, Valve and Set Screw)
1	146-0590	1	Valve, Vacuum Sustain	8	146-0457	1	Kit, Repair (Includes Air Horn Gasket, Flange Gasket, Float Chamber Gasket, Float Valve, Idle Adjust Spring, Idle Adjust Screw, Idle Adjust Cap, Power Limiter Cap, Power Jet Assembly Gasket, Throttle Stop Spring, Throttle Stop Screw, Throttle Adjust Screw and Throttle Adjust Screw Nut)
2	146-0449	1	Jet, Idle				
3	146-0450	1	Jet, Main	9	146-0586	1	Kit, Conversion Enhancement (See Page 71)
4	146-0589	1	Kit, Choke Pulloff (Includes Piston Rod, Link Washer, Snap Pin and Breaker)				
5	146-0588	1	Kit, Choke Bimetal (Includes Holder, Thermostat Cover, Set Plate and Case Set Screw)				
6	146-0592	1	Kit, Choke Shaft (Includes Choke Shaft, Collar, Arm Return Spring, Valve, Set Screw and Lever)				

## Carburetor Components (LP Liquid and Vapor)



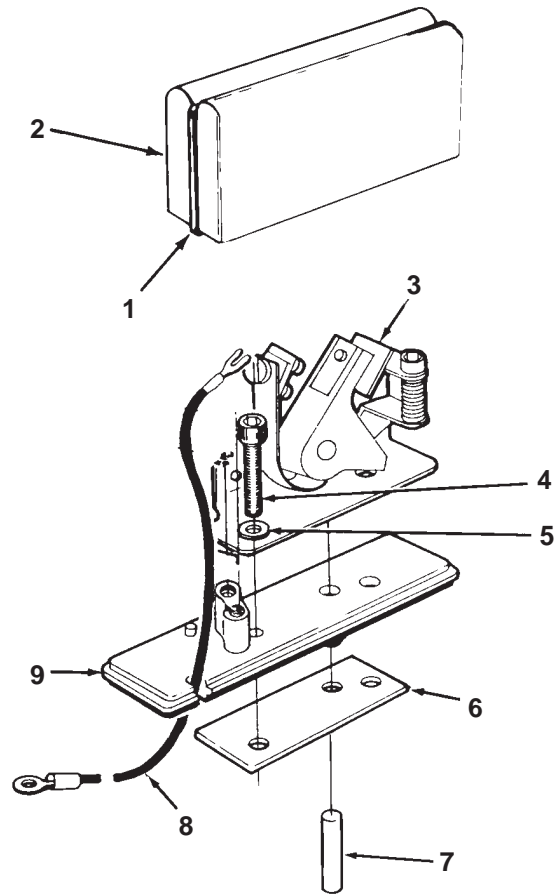
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Carburetor, Complete	8	141-0919	1	Plate, Throttle
	141-0932	1	Spec A-J	9	141-0711	1	Spring, Throttle Stop
	146-0723	1	Spec K & Up (LPG Liquid)	10	141-0700	1	Screw, Throttle Stop
	146-0727	1	Spec K & Up (LPG Vapor)	11	141-0937	1	Needle, Idle Adjust
1	141-0736	1	Plug, Bowl	12	141-0935	1	Spring, Idle Needle
2	141-0077	1	Washer, Bowl Plug	13	141-0934	1	Screw, Main Jet - Adjust
3	141-0708	1	Bowl, Fuel	14	141-0939	1	Spring, Main Jet Screw
4	141-0701	1	Gasket, Bowl	15			Tube, Idle (Rubber)
5	141-0936	1	Lever, Throttle Shaft		141-0938	1	Spec A-J
6	141-0924	1	Seal, Rubber - Dust		141-0978	1	Begin Spec K
7	141-0906	2	Screw, Round Head with Washer	16	141-0940	2	Seal, Dust

## Ignition System (Spec A)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	166-0772	1	Coil, Ignition (T1) (Includes Nuts and Washers)	6	167-0272	2	Plug, Spark (E3, E4)
2	166-0747	1	Clamp, Coil	7	167-1615-01	1	Cable, Spark Plug 9" Long
3	815-0261	1	Screw, Hex Washer Head Thread Cutting (1/4-20 x 1/2")		167-1602	1	27" Long
4	166-0771	2	Nut, Hex (8MM)	8	160-1325	1	Box Assy, Breaker (See Separate Page for Components)
5	850-2005	2	Washer, Lock (8MM)				

## Breaker Box (Spec A)

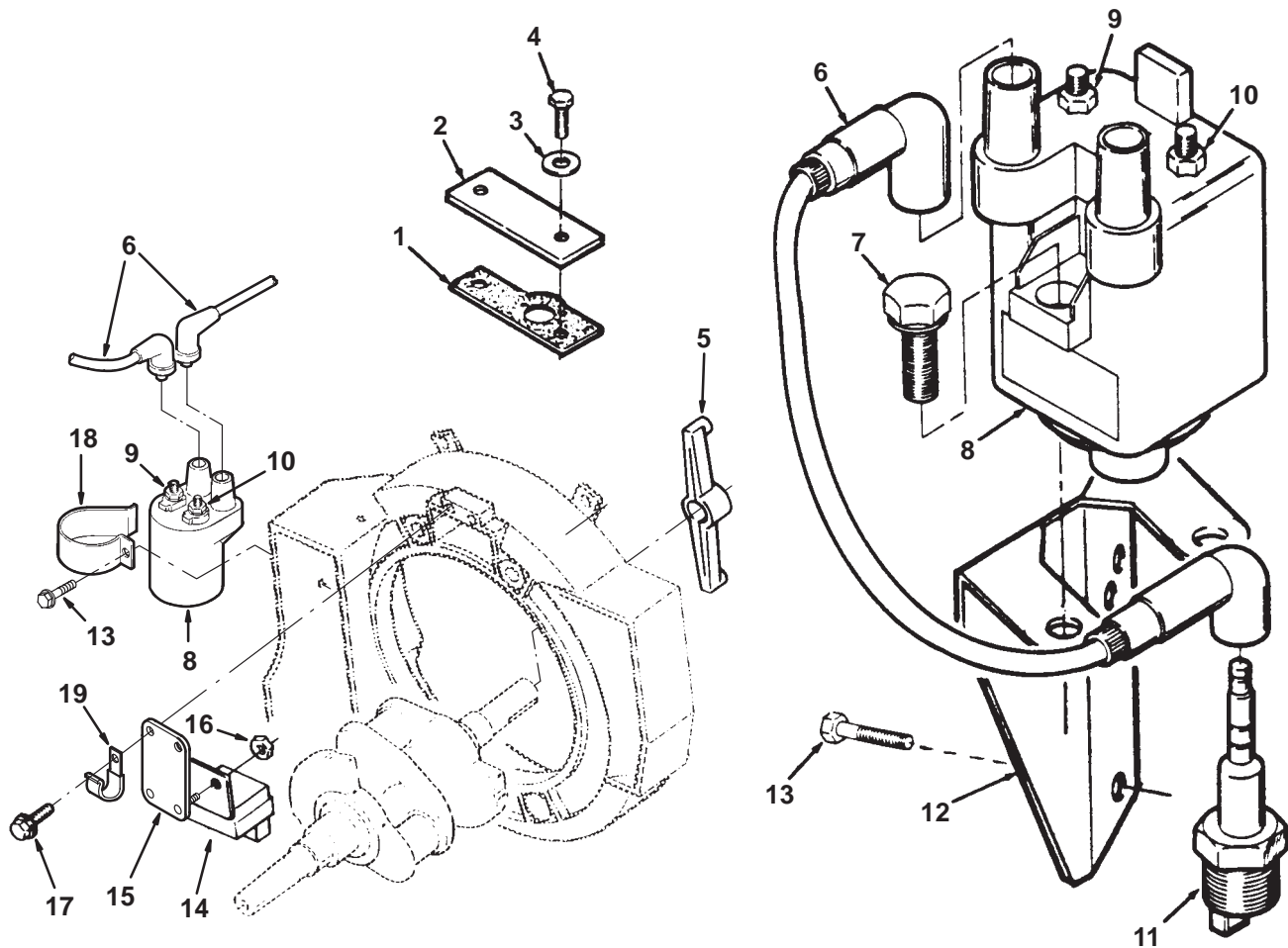


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	160-1325	1	Box, Breaker (Includes Parts Marked *)	6	160-1368	1	*Gasket, Breaker Box
1	160-1317	1	*Clip, Breaker Box Cover	7	160-1151	1	Plunger, Breaker Points
2	160-1316	1	*Cover, Breaker Box	8	336-2378	1	Lead, Breaker Box To Coil
3	160-1183	1	*Point, Breaker	9	160-1314	1	*Base, Breaker Box
4	802-0034	2	*Screw, Socket Head Cap (1/4-20 x 3/4")				
5	850-0038	2	*Washer, Spring Lock (1/4")				

\* - Parts Included in Breaker Box.

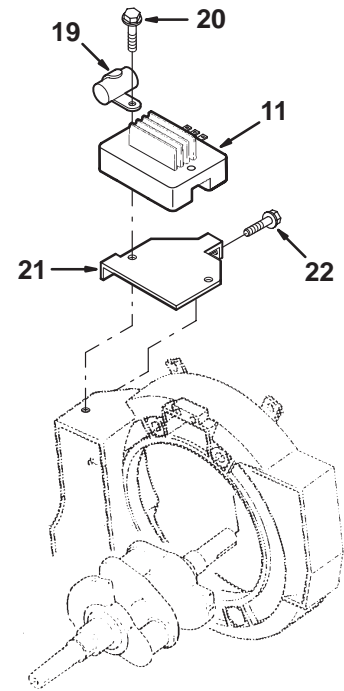
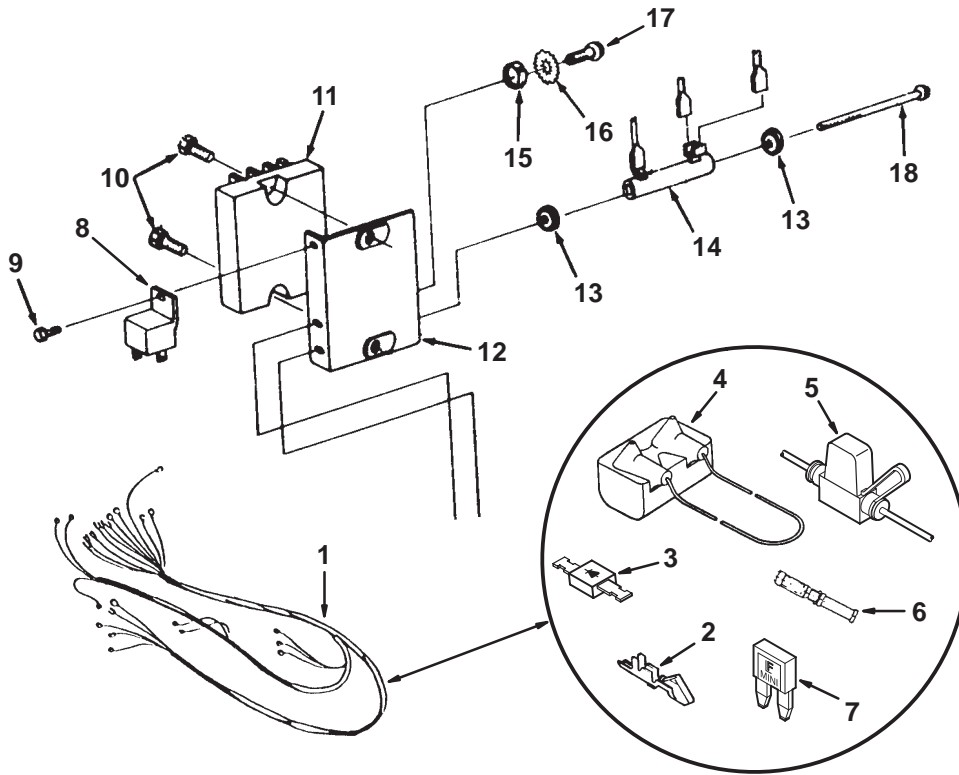


## Ignition System – Electronic (Begin Spec B)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	160-1368	1	Gasket, Plate	10	166-0770	1	Nut, Hex Flange (M4 Positive Terminal)
2	160-1345-01	1	Plate, Ignition Plunger Cover	11	167-0272	2	Plug, Spark (E3, E4)
3	740-1004	2	Washer, Flat (M6)	12	166-0789-01	1	Bracket, Ignition Coil Spec B thru Serial Number G923938483 During Spec F
4	800-0004	2	Screw, Hex Head Cap (1/4-20 x 5/8")	13	815-0290	1	Screw, Hex Washer Head Thread Forming (1/4-20 x 5/8")
5	166-0842	1	Rotor Assembly, Ignition (Includes Rotor and Magnet)	14			Control, Ignition (S3)
6			Cable, Spark Plug		166-0821	1	15" Leads – Gasoline Fueled
	167-1615-01	1	9" – Spec A-G		166-0821-01	1	28.5" Leads – LP Fueled
	167-1615-06	1	26" – Spec G	15	166-0793	1	Bracket, Ignition Control
	167-1602	1	27" – Spec A-F	16	870-0328	2	Nut, Self-Lock (10-32)
7	815-0650	2	Screw, Hex Washer Head (1/4-20 x 1")	17	815-0770	2	Screw, Hex Washer Head Thread Forming (10-32 x 1/2")
8			Coil, Ignition (T1) (Includes Nuts)	18	166-0747	1	Clamp, Coil (Begin Serial Number G923938484 During Spec F)
	166-0761	1	Spec B thru Serial Number G923938483 During Spec F	19	332-3198	1	Connector
	166-0820	1	Begin Serial Number G923938484 During Spec F				
9	166-0771	1	Nut, Hex Flange (M5 Negative Terminal)				

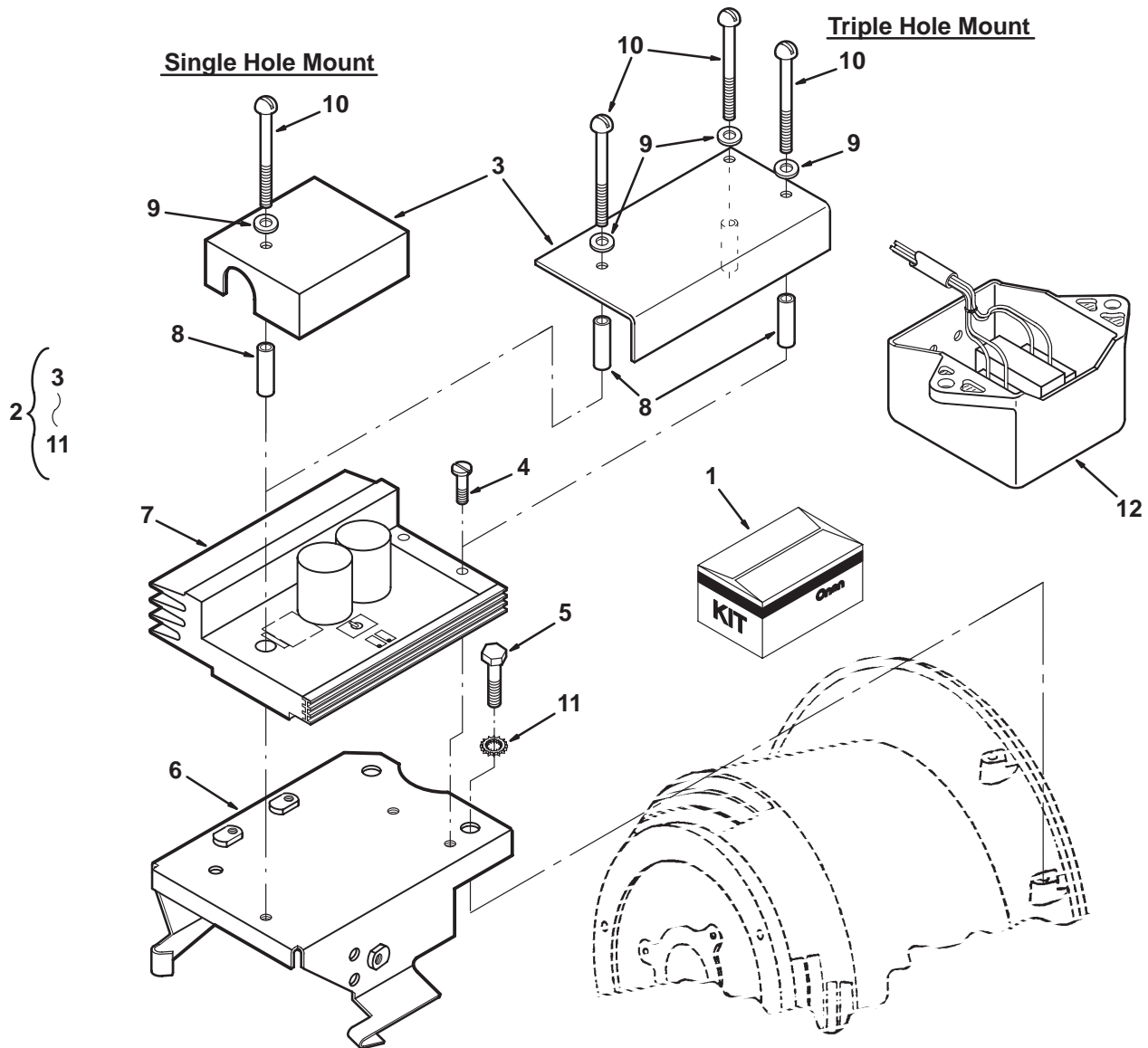
## Battery Charger (Spec A-H)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Battery Charge (Includes Parts Marked *) Spec A,B	11	305-0784	1	Charger, Battery (Spec A-F & H)
	338-2318-01	1	Gasoline	12			Bracket, Battery Regulator Mounting Spec A-E
	338-2318-02	1	LP		319-0310-02	1	Spec F, Volt Code FA
			Spec C	13	304-0796	2	Washer, Center - Volt Code FD
	338-2643-01	1	Gasoline	14	304-0798	1	Resistor, Fuel Pump - Volt Code FD
	338-2643-02	1	LP	15			Washer, Lock (#10)
			Spec D,E		850-0030	1	Volt Code FD
	338-2776-01	1	Gasoline		850-0030	2	Volt Code FB,FN
	338-2776-02	1	LP	16	856-0003	1	Washer, EIT Lock (#10)
			Spec F	17			Screw, Pan Head (Special)
	338-2820	1	Gasoline		815-0661	1	Volt Code FD
	338-2816	1	LP		815-0661	2	Volt Code FB,FN
	338-2917	1	Spec G, H	18	815-0712	1	Screw, Pan Head (Special)
2	323-1302	3	*Pin, Contact				Volt Code FD
3	357-0067	1	*Rectifier (CR6)	19	312-0256	1	Condenser, Ignition (Spec A-F & H)
4	320-1658	1	*Breaker, Circuit - 40 Ampere, 6, 12, 24 Volt (CB4)	20	815-0793-07	2	Screw, Hex Flange Head (M5 x 30mm) (Spec H)
5			*Holder, Fuse	21	416-0989-02	1	Tray, Mounting (Spec H)
	321-0322-02	1	Spec F	22	815-0770	1	Screw, Hex Washer Head Thread Forming (#10-32 x 1/2")
	321-0322-03	1	Spec G				
6	323-1486	3	*Socket, Contact				
7	321-0321-06	1	*Fuse, 10 Amp (F2) (Begin F)				
8	307-1886	2	*Relay, Ignition (K5,K6)				
9	821-0004	1	Screw, Flange Lock Head (10-32 x 5/16")				
10	821-0012	2	Screw, FlangeLock Head (1/4-20 x 1-1/8")				

\* - Parts Included in Battery Charge Wiring Harness.

## Voltage Regulator Stator Mount

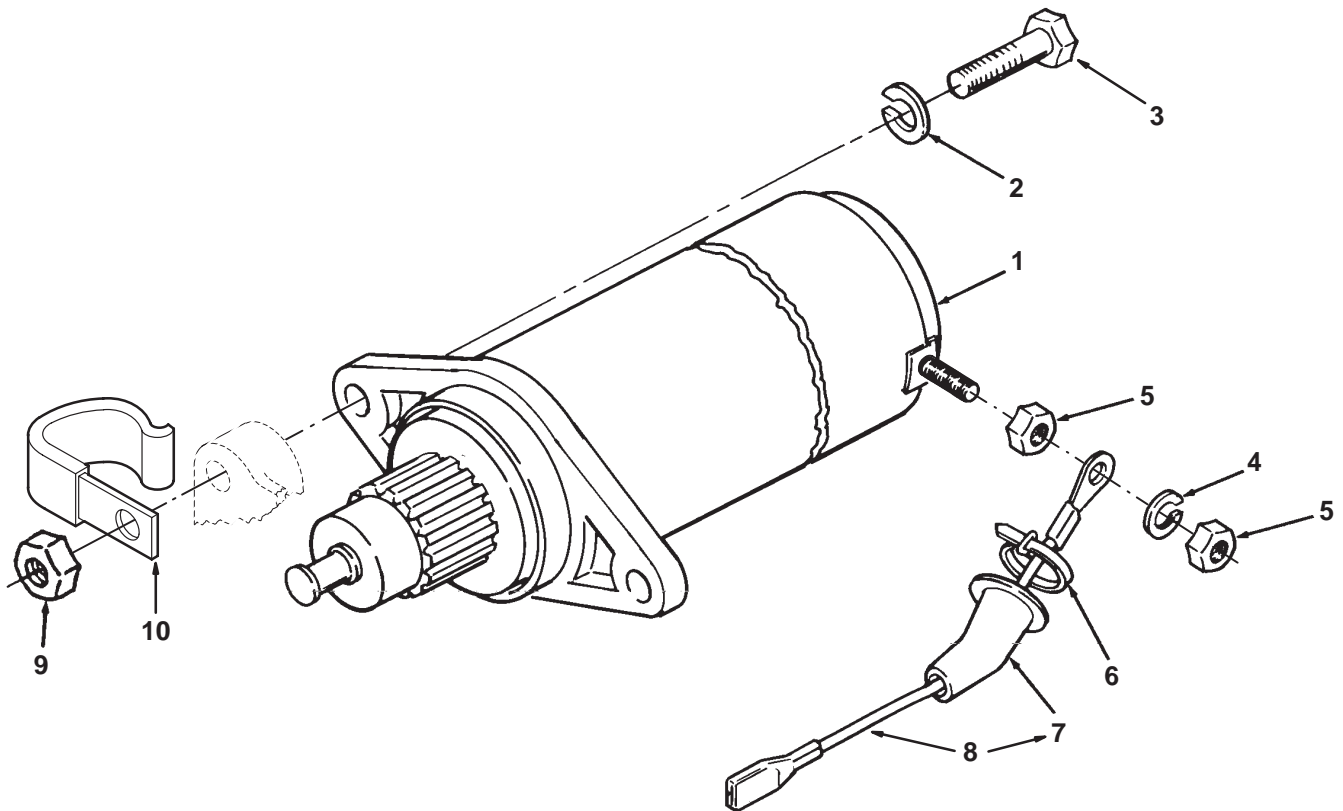


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	305-0883	1	Kit, Voltage Regulator Conversion (SR1900) (Includes 305-0881)
2	305-0881	1	Assembly, Voltage Regulator (Includes Parts Marked *)
3			*Cover
	305-0879-02	1	Single Hole Mount
	305-0945-02	1	Triple Hole Mount
4	815-0691-01	2	*Screw, Thread Forming Pan Head (#10-32 x 3/8") (Single Hole Mount Only)
5	815-0290	2	*Screw, Thread Forming Hex Head (1/4-20 x 5/8")
6	315-0792-03	1	*Bracket, Mounting
7	305-0875-04	1	*Regulator, Voltage (Begin Spec G) (Volt Code FD, FT) (3 Phase)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8			*Standoff
	370-4086	1	Single Hole Mount
	370-4086	3	Triple Hole Mount
9			*Washer, Flat (7/16")
	526-0008	1	Single Hole Mount
	526-0008	3	Triple Hole Mount
10			*Screw, Round Head Machine (#10-32 x 2-1/2")
	813-0114	1	Single Hole Mount
	813-0114	3	Triple Hole Mount
11	856-0006	2	*Washer, EIT (1/4")
12	315-0754	1	Transformer Assembly (Used With 305-0875-04 Voltage Regulator)

\* - Parts included in Voltage Regulator Assembly.

## Starter

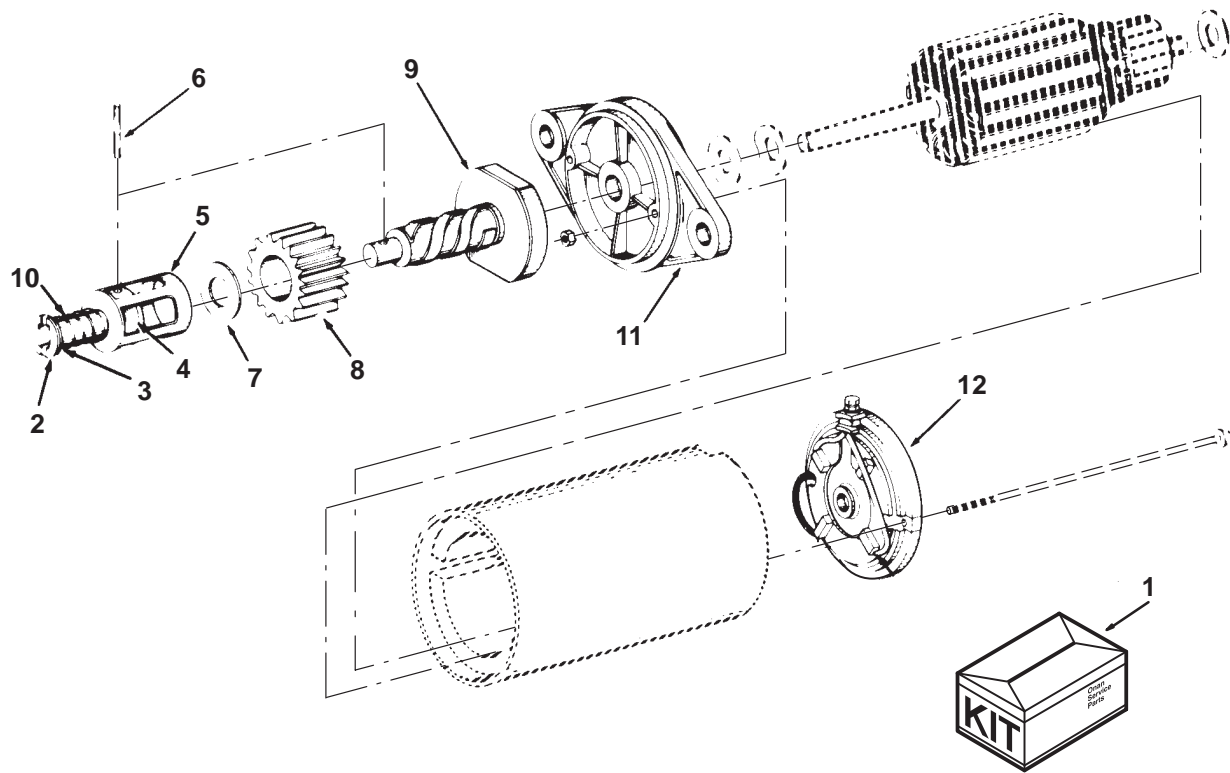


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191-1630	1	Starter (B1) Spec A-G (See Separate Page for Components)
	191-2122	1	* Spec (Spec H Only)
	191-1949-09	1	Begin Spec J
2	850-0050	2	Washer, Lock (3/8") Spec A-H
	850-0114-07	2	Begin Spec J
3			Screw, Hex Head Cap (Special)
	800-0052	2	Spec A-H
	800-0312	2	Begin Spec J
4	850-0040	1	Washer, Lock (1/4")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	862-0001	2	Nut, Hex (1/4-20)
6	332-0942	1	Tie, Cable
7	122-0345	1	Tube
8	226-3457	1	Lead, Starter (Includes Tube)
9			Nut, Hex (3/8-16)
	862-0003	2	Spec A-H
	862-0041	2	Begin Spec J
10	332-3359	1	Clip, Harness

\* - Components not Available at Time of Print.

## Starter Components For Starter – 191–1630 (B1)

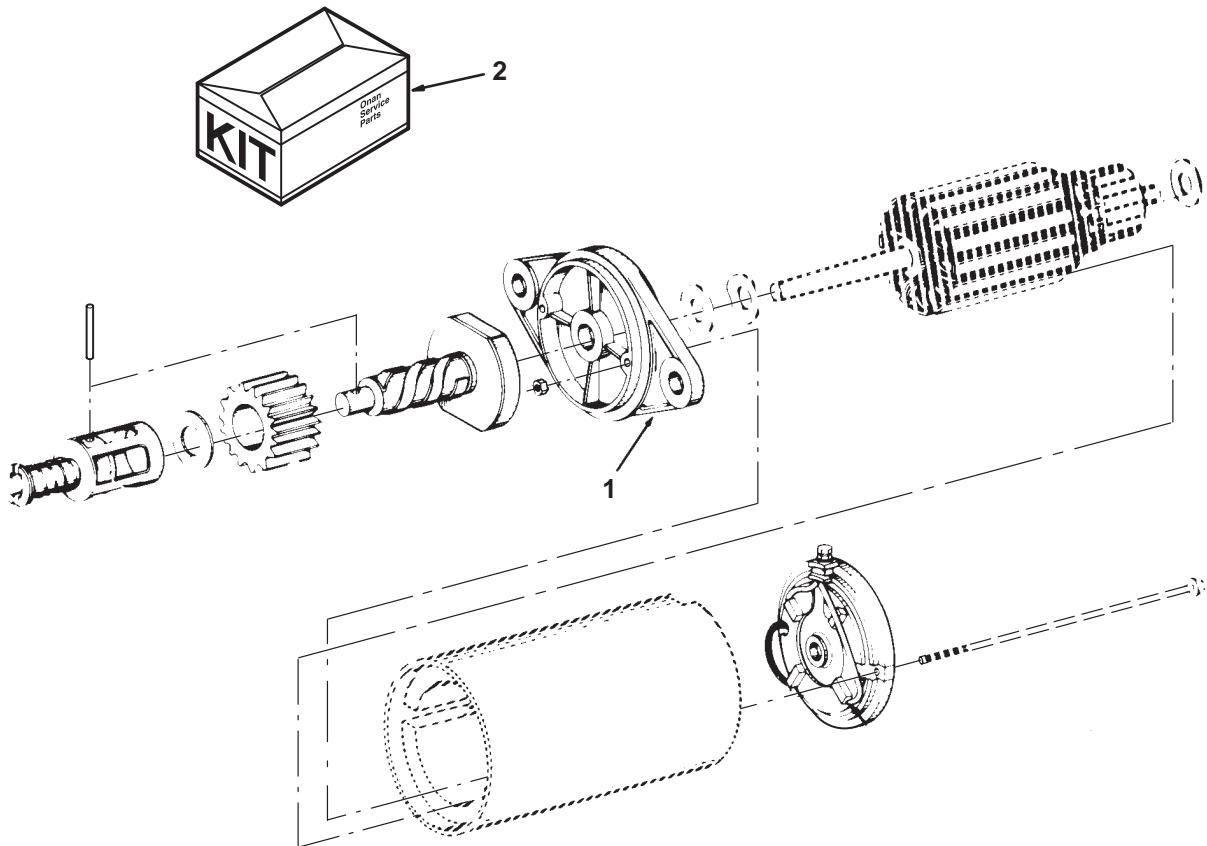


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191-2129	1	Kit, Starter Drive (Includes Parts Marked *)
2	191-1821	1	*Retainer, Spring
3	191-1822	1	*Washer, Pinion
4	191-1818	1	*Retainer, Clutch
5	191-1817	1	*Cover, Spring
6	191-1786	1	*Pin, Roll
7	191-1785	1	*Washer, Drive

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	191-1819	1	*Gear, Starter
9	191-1784	1	*Clutch and Spline
10	191-1820	1	*Spring, Pinion
11	191-1776	1	Cap, Drive End
12	191-1781	1	Cap, End

\* – Parts Included in Starter

# **Starter Components** **For Starters – 191–2132 & 191–2158**



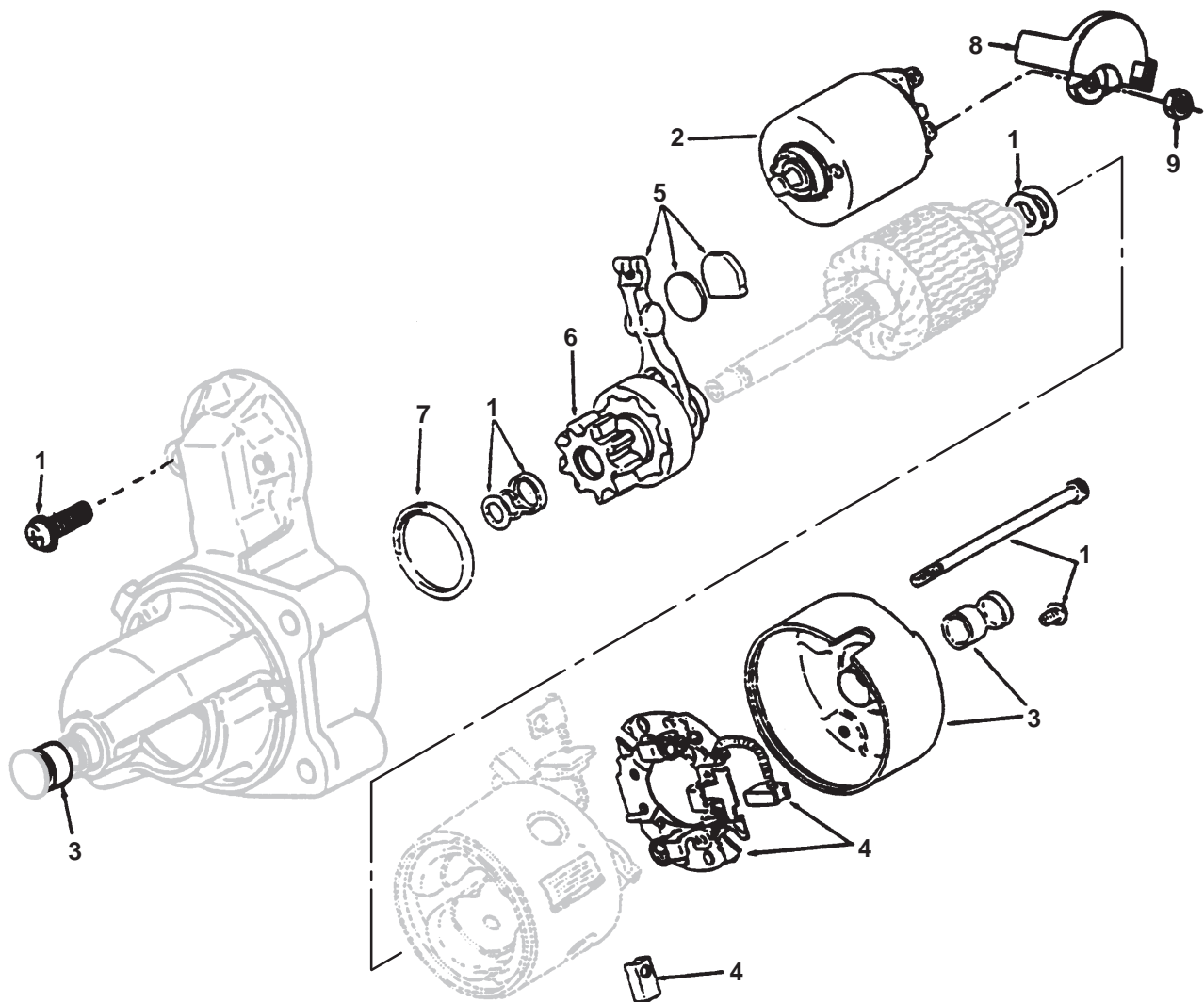
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191–2186	1	Cap, Drive
2	191–2187	1	Kit Assembly, Drive (Includes Washers, Retainers, Spring, Cover, Roll Pin, Pinion Gear, and Drive Clutch)

**#Starter Components  
For Starter – 191–2122**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191–1359	1	Service Package, Starter (Includes Parts Marked *)
	191–1034	1	*Cover, Dust
	191–1035	1	*Spring, Anti Drift
	191–1045	1	*Nut, Stop
	191–1046	1	*Washer, Stop Nut
	191–1047	1	*Spacer, Dust Cover
2	191–2198–02	1	Drive Pinion Assembly
3	191–1156	1	Drive Assembly

# – Illustration Not Available At Time Of Printing.

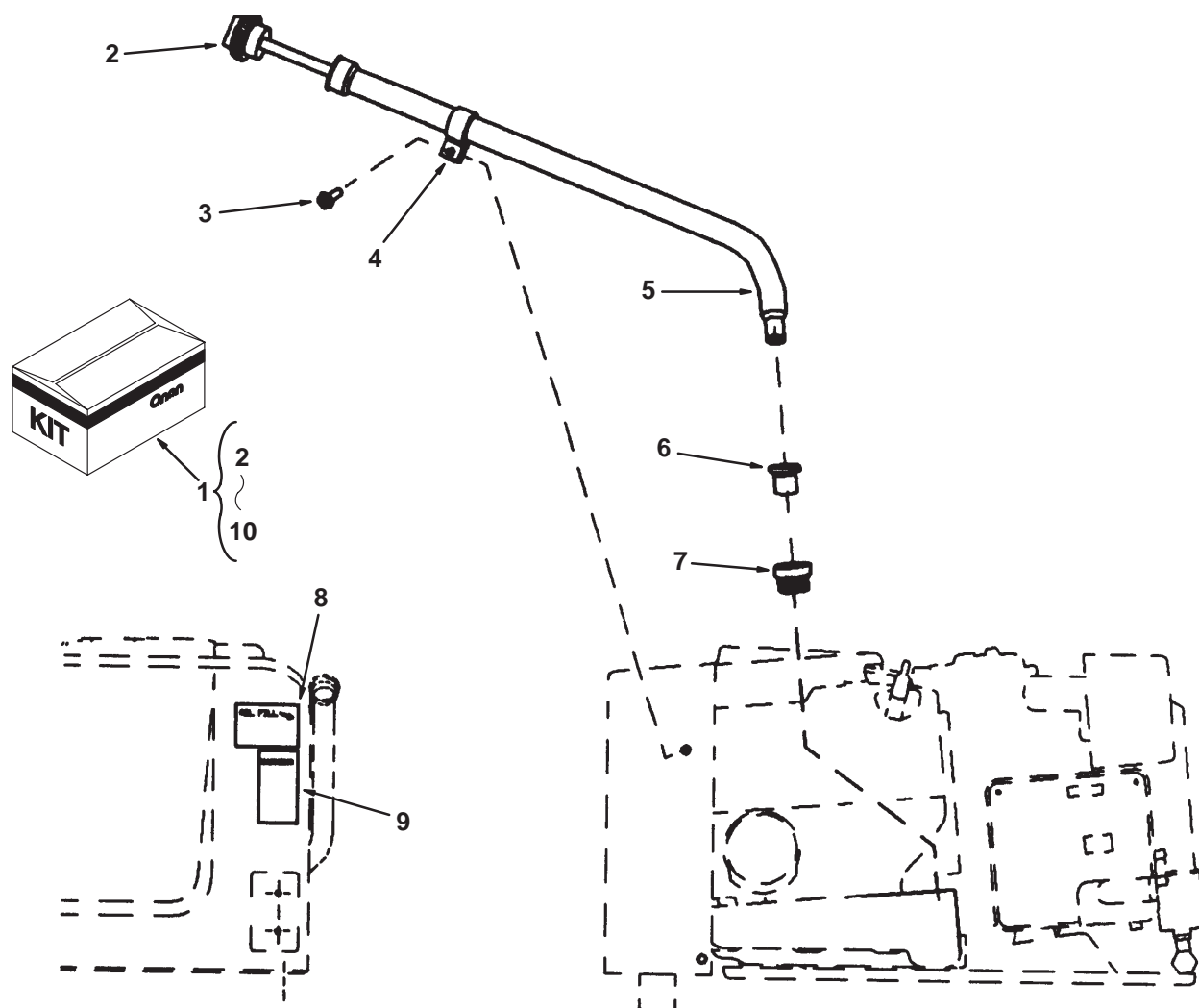
## Starter Components For Starter – 191–1949–09



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191–1954	1	Kit, Hardware (Includes Two Solenoid Mounting Screws, Two Thru Bolts, Armature Shims, Pinion Stop Collar, Retaining Ring & Solenoid Terminal Nuts)	5	191–1766	1	Kit, Shift Lever (Includes Lever, Wear Plate, Rubber Plug and Grease)
2	191–1956	1	Kit, Solenoid (Includes Solenoid & Spring Plunger)	6	191–1953	1	Kit, Drive (Includes Pinion Gear and Drive Assembly)
3	191–1931	1	Kit, Bushing (Includes Rear Cap With Bushing & Front Bushing)	7	191–1955	1	Kit, Dust Seal (Includes ID & OD Pinion Seals)
4	191–1951	1	Kit, Brush (Includes Two Negative and Two Positive Brushes & Brush Holder)	8	191–1947	1	Cap, Solenoid
				9	750–1006	1	Nut, Hex Grounding (M8)
				10	191–2199–01	1	Solenoid (Not Shown)
				11	191–2199–02	1	Kit, Brush Holder Assembly (Not Shown)



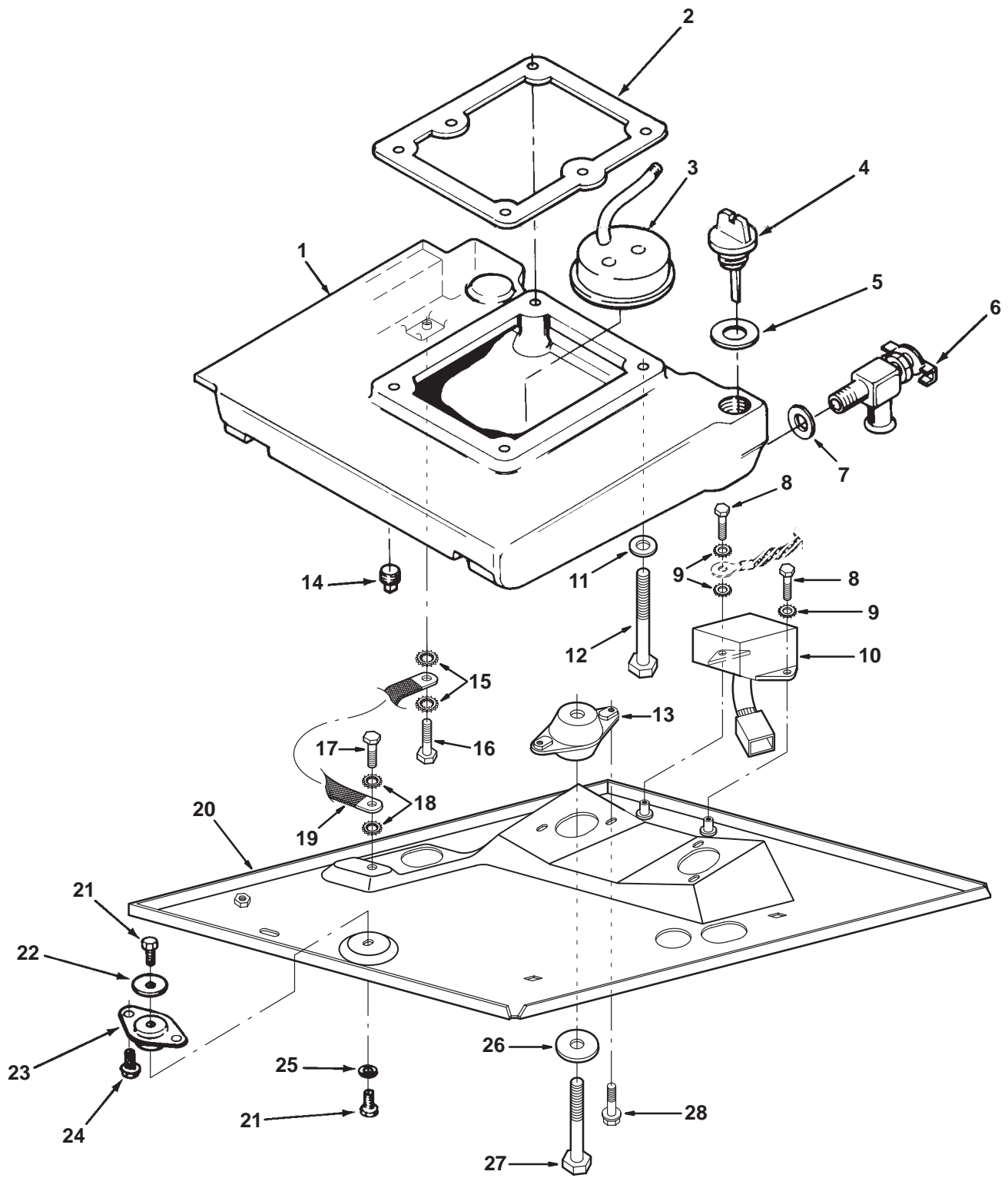
## Oil Fill Tube



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	541-0456	1	Kit, Oil Fill Tube (Includes All Parts Listed on This Page)
2	123-2000	1	Indicator & Cap Assembly
3	815-0261	1	Screw (1/4-20 x 1/2)
4	332-3213	1	Clamp, Coated
5	123-1997-50	1	Tube, Oil Fill

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	509-0269	1	Seal, Oil Fill Tube
7	123-2001	1	Adapter, Assembly
8	98-6618-01	1	Label, Oil Capacity
9	98-5755	1	Label, Warning
10	G-189	1	Sheet, Instruction (Not Shown)

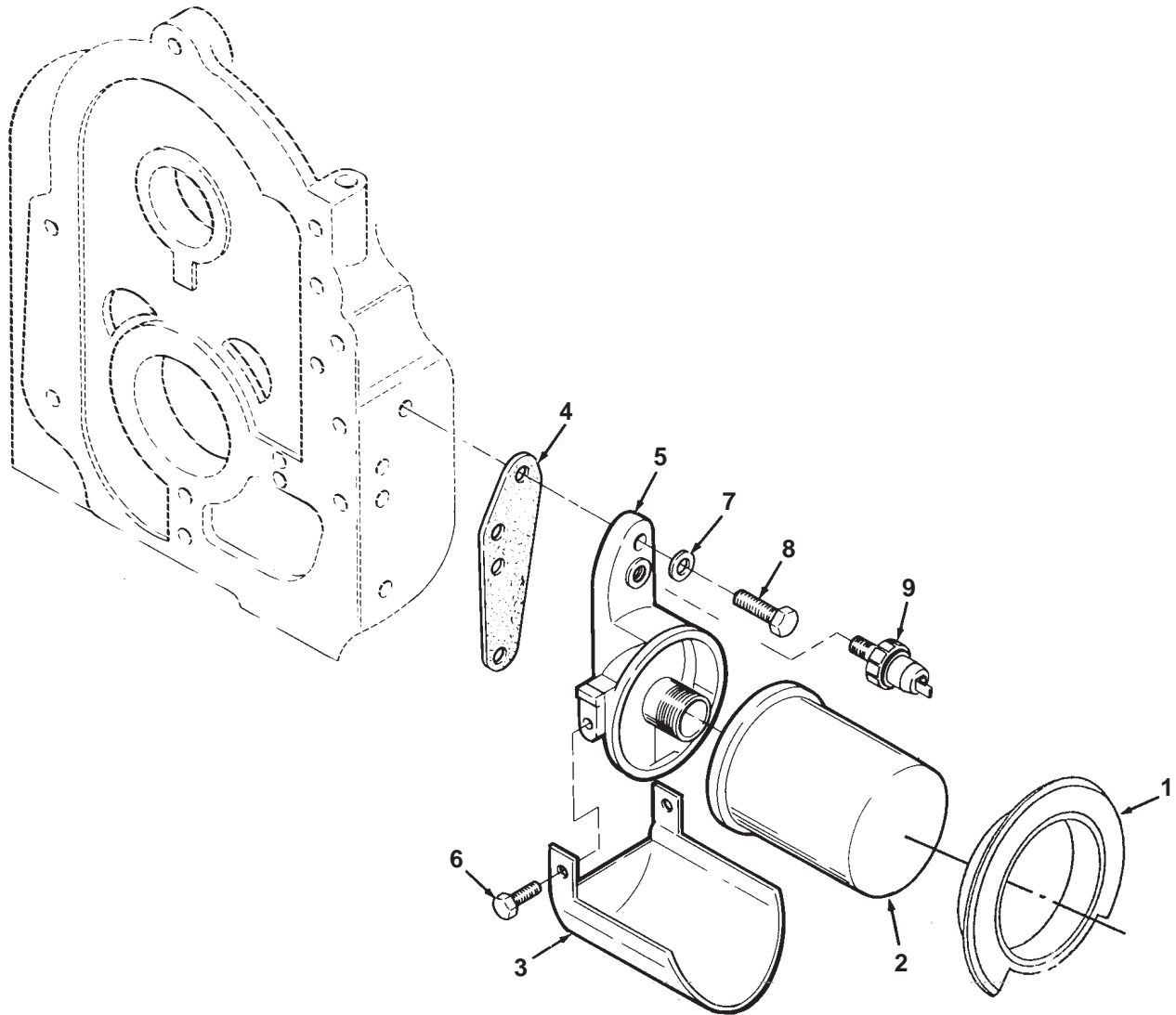
# Oil Base



## Oil Base

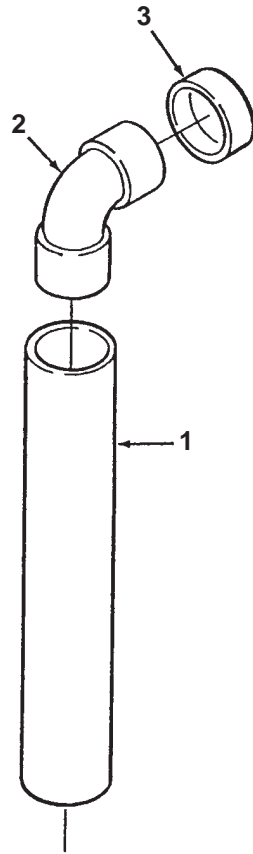
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	102-1286	1	Base, 3.5 Quart Oil	14	505-0266	1	Plug, Oil Drain (3/8-16 x 3")
2	102-1387	1	Gasket, Oil Base	15	856-0010	2	Washer, EIT
3	123-1616	1	Cup, Oil Pump Intake	16	800-0048	1	Screw (3/8-16 x 3/4")
4	123-1961	1	Cap, Oil Fill	17	815-0236	1	Screw, Thread Cutting (5/16-18 x 5/8")
5	509-0096	1	O-Ring, Oil Fill Cap	18	856-0008	2	Washer, EIT
6	504-0150	1	Valve, Oil Base Shutoff	19	337-2311	1	Strap, Bond
7	102-0743	1	Gasket, Oil Drain Plug	20		1	Pan, Drip
8	800-0004	2	Screw, Hex Head Cap (1/4-20 x 5/8")		403-2218-01	1	Spec A-H
9	853-0013	3	Washer, ET		403-2218-02	1	Begin Spec J
10			Regulator, Voltage (VR1) (Spec J Only) (Transformer)	21	821-0031	2	Screw, Self-Lock Hex Washer Head (3/8-16 x 3/4")
	305-0911	1	Volt Code FB	22	526-0324	1	Washer, Flat (5/16" Screw)
	305-0922	1	Volt Code FN	23	402-0549	1	Isolator, Engine End Vibration
	315-0754	1	Volt Code FC, FD, FT (3 Phase)	24	821-0016	2	Screw, Self-Lock Hex Washer Head (5/16-18 x 3/4")
11	526-0251	4	Washer, Flat (3/8" Screw)	25	526-0014	1	Washer, Flat (3/8" Screw)
12	800-0058	4	Screw, Hex Head Cap	26	526-0325	2	Washer, Flat (3/8" Screw)
13			Isolator, Generator End Vibration Spec A,B	27	815-0598	2	Screw, Hex Head Thread Form (3/8-16 x 2.5")
	402-0547	2	Top Half	28	821-0010	4	Screw, Self-Lock Hex Washer Head (1/4-20 x 1/2")
	402-0597	2	Bottom Half				
	402-0602	2	Begin Spec C				

## Oil Filter



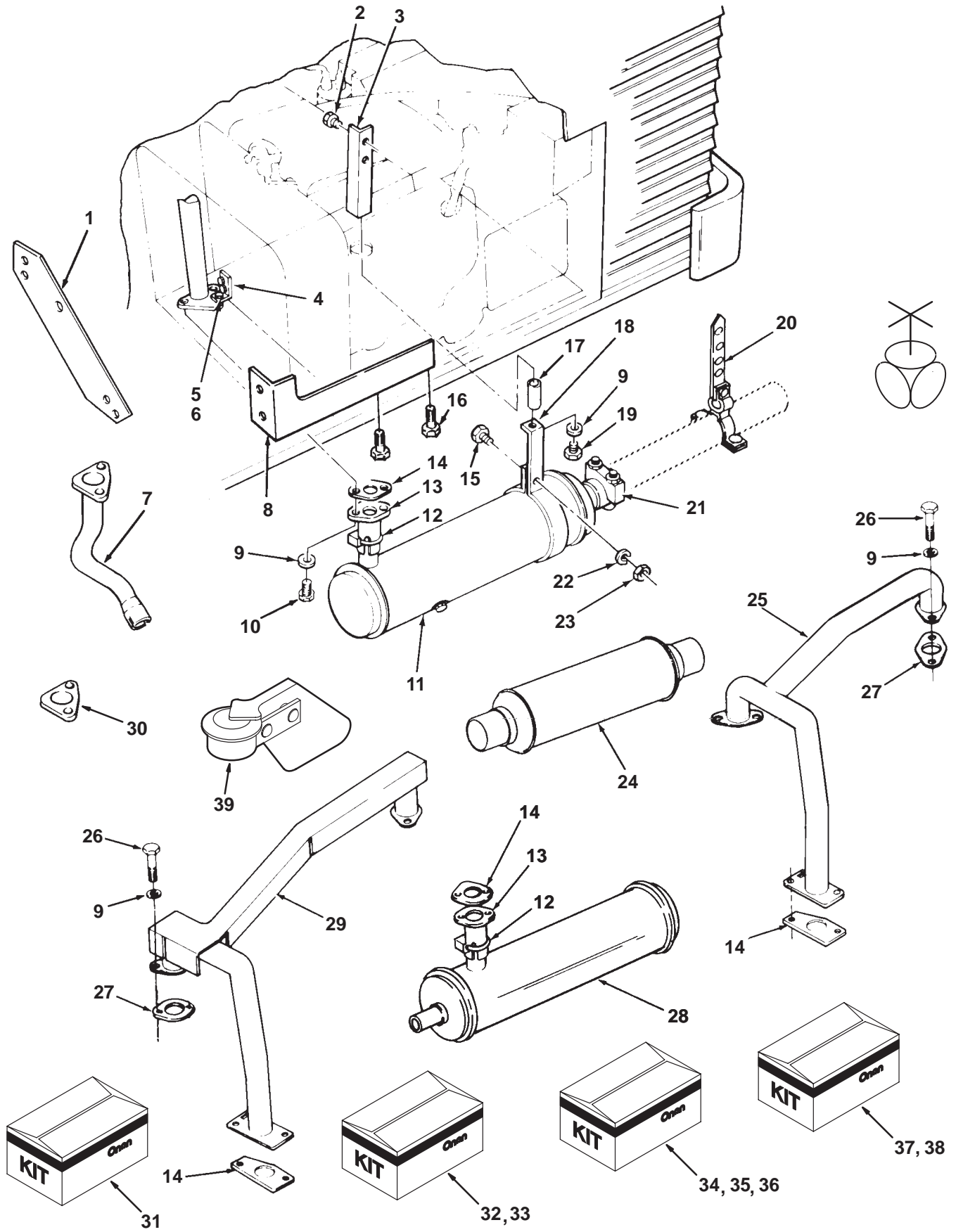
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	122-0502	1	Gasket, Oil Filter	7	526-0065	2	Washer, Copper Flat (5/16" Screw)
2	122-0645	1	Filter, Oil	8	800-0028	2	Screw, Hex Head Cap (5/16-18 x 1")
3	122-0360-50	1	Drain, Oil Filter	9	309-0322	1	Switch, Low Oil Pressure (S2)
4	122-0771	1	Gasket, Oil Filter Adapter				
5	122-0814	1	Adapter, Oil Filter (Includes Oil Filter Drain Screws)				
6	815-0340	2	Screw, Hex Washer Head Cap (#10-32 x 3/8")				

## Breather Tube Bypass (Cold Weather Use)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-1551	1	Tube, Breather
2	502-1026	1	Elbow, 90°
3	517-0260	1	Plug, Cap

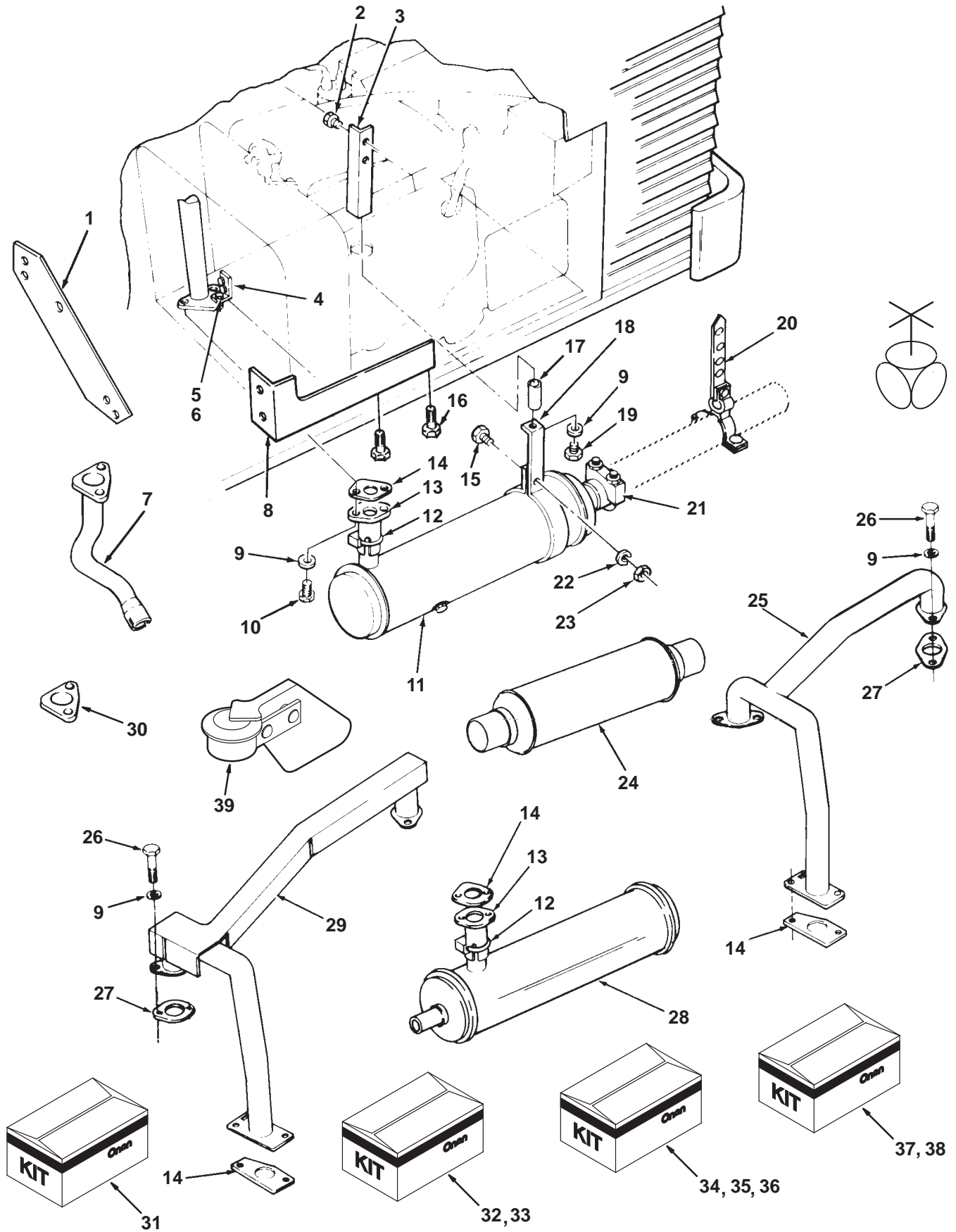
# Exhaust System



## Exhaust System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-2663	1	Bracket, Exhaust (Use With 154-2662 Tube)	26	800-0026	4	Screw, Hex Head Cap (5/16-18 x 3/4")
2			Screw, Hex Washer Head Thread Forming	27	154-2746	2	Gasket, Exhaust Manifold
	815-0499	2	Spec A (1/4-20 x 5/8")	28	155-1485	1	Muffler, Side Outlet - End Outlet Near Inlet with Spark Arrestor
	815-0290	2	Begin Spec B (1/4-20 x 5/8")	29	154-2627	1	Manifold, LP Liquid Exhaust
3	155-2026-02	1	Strap, Muffler (Spec A-H)	30	154-2537	1	Flange, Exhaust Manifold
4			Bracket, Exhaust Manifold	31			Kit, Exhaust Accessory (See Last 2 Pages for Components)
	155-2036	1	LP Liquid (1.97" Long)		542-0331	1	Spec B-F
	154-2538	1	Gasoline & LP Vapor (2.31" Long)		542-0496	1	Spec A-D
5	800-0005	1	Screw, Hex Head Cap (1/4-20 x 3/4")		542-0494	1	Spec J and Up
6	526-0018	1	Washer, Flat (1/4" Screw)	32			Kit, Vertical Exhaust (All Specs)
7			Tube, Exhaust		542-0343	1	(Includes Parts Marked *)
	154-2662	1	Spec A-L (11" Long) (Use With 154-2663 Bracket)		542-0498	1	(Includes Parts Marked #)
	154-3069	1	Begin Spec M		154-2854-01	1	* Elbow, 90 Degree Exhaust
8	155-2049-02	1	Bracket, Exhaust		154-2542	1	** Gasket, Exhaust Manifold
9	740-1006	7	Washer, Flat (M8)		800-0030	4	** Screw, Hex Head Cap (5/16-18 x 1-1/4")
10	800-0730	2	Screw, Hex Head Cap (5/16-18 x 1")		850-0045	2	** Washer, Lock (5/16)
11		1	Muffler, Side Inlet - End Outlet With Spark Arrestor		155-1015	1	* Clamp, Muffler
	155-1258		Without Spark Arrestor		155-1258	1	* Muffler
	155-2588	1			155-2429-03	1	** Arrestor, Spark
12	155-1239	1	Clamp, Muffler		815-0439	1	** Screw, Hex Washer Head Self-Drill (#8 x 1/2")
13			Adapter, Exhaust (Flange Type)		155-2986-02	1	* Tailpipe, Muffler
	154-2540	1	4-1/4" Long		155-2993-02	1	** Bracket, Exhaust
	154-2683	1	6-1/4" Long		800-0004	2	** Screw, Hex Head Cap (1/4-20 x 5/8")
	154-2718	1	8" Long		870-0048	4	** Nut, Lock (5/16-18)
14	154-2542	1	Gasket, Exhaust		800-0025	2	** Screw, Hex Head Cap (5/16-18 x 5/8")
15	800-0007	1	Screw, Hex Head Cap (1/4-20 x 1")		155-2994-02	2	** Strap, Muffler
16	821-0029	2	Screw, Hex Washer Head - Self-Lock (3/8-16 x 3/4")		155-2989-02	1	** Bracket, Support
17	370-4027	1	Spacer, Muffler - 2" Long (Used Only On RVs With 6-1/4" Long Exhaust Adapter)		G-277	1	** Sheet, Instruction
18			Strap, Muffler	33			Kit, Vertical Exhaust (All Specs)
	155-2025-02	1	4.31 ID - 5.77" Long		542-0334	1	Includes Parts Marked ~
	155-2589	1	5.03 ID - 8.65" Long - Use with Muffler w/o Spark Arrestor		542-0341	1	Includes Parts Marked @)
19			Screw, Hex Head Cap		154-2980	1	~ Exhaust Assembly
	800-0026	1	Use Without Spacer (5/16-18 x 3/4")		154-2983	1	@ Exhaust Assembly
	800-0036	1	Use With Spacer (5/16-18 x 2-3/4")		155-1256	1	@ ~ Clamp, Muffler
20	155-2174	1	Hanger, Exhaust		821-0016	1	~ Screw, Lock Head Flange (5/16-18 x 3/4")
21	155-1015	1	Clamp, Muffler		821-0018	1	@ Screw, Lock Head Flange (1/4-20 x 5/8")
22	740-1004	1	Washer, Flat (M6)		154-2542	1	@ ~ Gasket, Exhaust Manifold
23	870-0212	1	Nut, Self-Lock (1/4-20)		154-2539	1	@ ~ Tube, Exhaust
24	155-2449	1	Resonator, Exhaust - Gasoline Only		155-2164	1	~ Muffler, Spark Arrestor
25	154-2551	1	Manifold, Exhaust Gasoline & LP Vapor		155-2085	1	@ Muffler, Spark Arrestor
					800-0730	2	@ ~ Screw, Hex Head Crescent Cap (5/16-18 x 1")
					850-0045	2	@ ~ Washer, Lock (5/16)
					800-0004	2	@ ~ Screw, Hex Head Cap (1/4-20 x 5/8")
					850-0040	2	@ ~ Washer, Lock (1/4)
					526-0130	2	@ ~ Washer, Flat

# Exhaust System



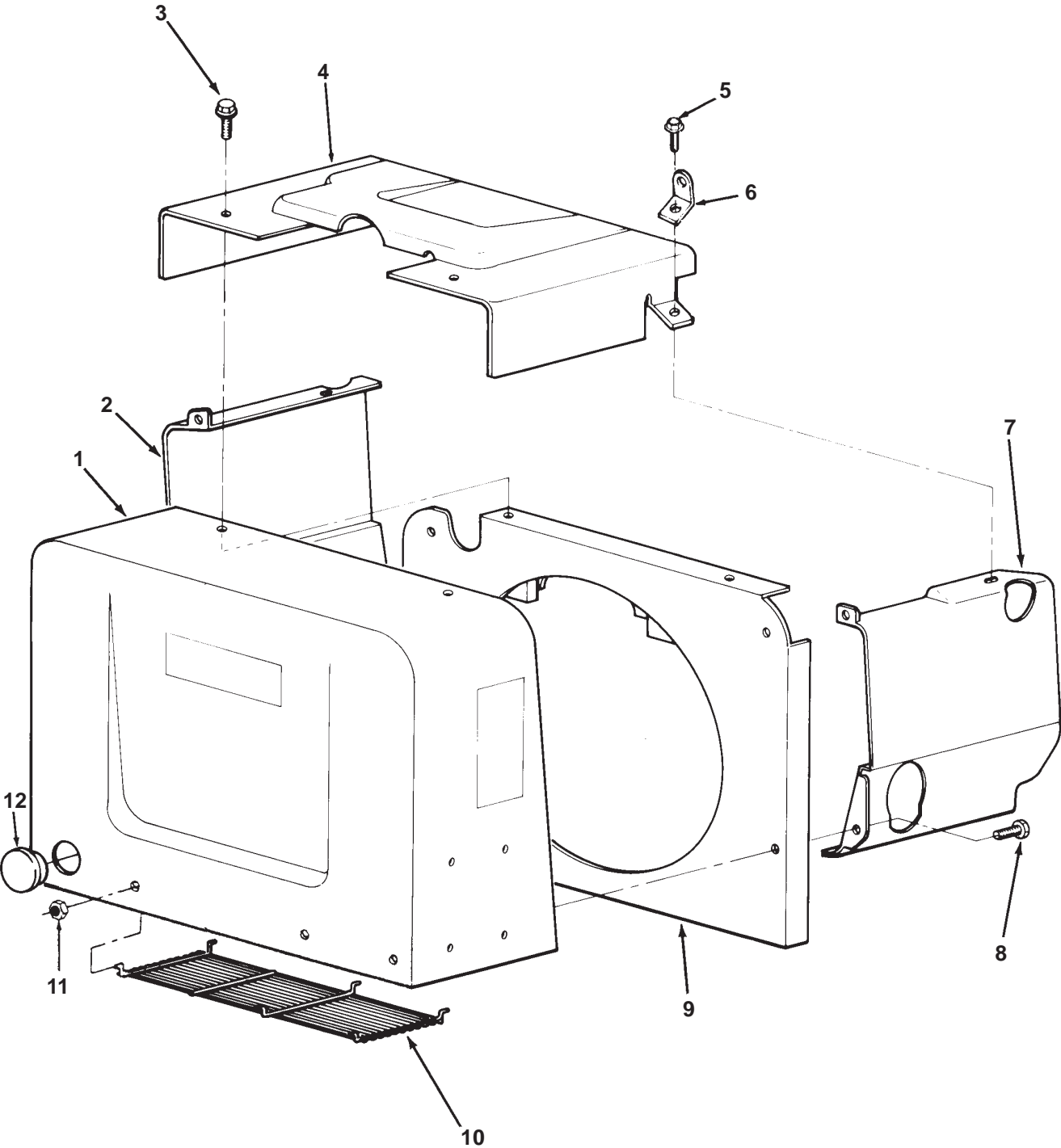


## Exhaust System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
34	542-0265	1	Kit, Accessory (Includes Parts Marked ^)	542-0469	1	Includes Parts Marked >	
	A-0309	1	^Sheet, Instruction	542-0470	1	Includes Parts Marked ‘	
	155-3259	1	^Muffler, Spark Arrester	A-0309	1	>^Sheet, Instruction	
	155-1256	1	^Clamp, Muffler	155-2085	1	>Muffler, Spark Arrester	
	154-2542	1	^Gasket, Exhaust Manifold	155-2086	1	‘Muffler, Spark Arrester	
	154-2539	1	^Tube, Exhaust	155-1256	1	>^Clamp, Muffler	
	526-0130	2	^Washer, Flat (Muffler)	154-2542	1	>^Gasket, Exhaust Manifold	
	800-0004	2	^Screw, Hex Head Cap (1/4-20 x 5/8")	154-2539	1	>^Tube, Exhaust	
	800-0730	2	^Screw, Hex Head Crescent Cap (5/16-18 x 1")	526-0130	2	>^Washer, Flat (Muffler)	
	850-0040	2	^Washer, Lock (1/4")	800-0004	2	>^Screw, Hex Head Cap (1/4-20 x 5/8")	
	850-0045	2	^Washer, Lock (5/16")	800-0730	2	>^Screw, Hex Head Crescent Cap (5/16-18 x 1")	
	332-2112	1	^Insulator, Terminal	850-0040	2	>^Washer, Lock (1/4")	
35	542-0351	1	Kit, Accessory (Includes Parts Marked &)	850-0045	2	>^Washer, Lock (5/16")	
	G-196	1	&Sheet, Instruction	332-2112	1	>^Insulator, Terminal	
	154-3069	1	&Tube, Exhaust	38	542-0482		Kit, RV Accessory (Includes Parts Marked =)
	154-2542	1	&Gasket, Exhaust Manifold	A-0309	1	=Sheet, Instruction	
	155-1015	1	&Clamp, Muffler	155-2164	1	=Muffler, Spark Arrester	
	155-1239	1	&Clamp, Muffler	155-1256	1	=Clamp, Muffler	
	155-1258	1	&Muffler, Spark Arrester	154-2542	1	=Gasket, Exhaust Manifold	
	155-1234	1	&Hanger, Exhaust	154-2539	1	=Tube, Exhaust	
	418-0014	1	&Carton	526-0130	2	=Washer, Flat (Muffler)	
	526-0122	2	&Washer, Flat Special	800-0004	2	=Screw, Hex Head Cap (1/4-20 x 5/8")	
	800-0730	2	&Screw	800-0730	2	=Screw, Hex Head Crescent Cap (5/16-18 x 1")	
36			Kit, Accessory	850-0040	2	=Washer, Lock (1/4")	
	542-0327	1	Spec A (Includes Parts Marked <)	850-0045	2	=Washer, Lock (5/16")	
	542-0337	1	Spec J (Includes Parts Marked +)	332-2112	1	=Insulator, Terminal	
	G196	1	+<Sheet, Instruction	155-2174	1	=Hanger, Exhaust	
	800-0730	2	+<Screw, Hex Head Cap (5/16-18 x 1")	155-1015	1	=Clamp, Muffler	
	332-2112	1	+<Insulator, Terminal	39	154-3003	1	Cap, Rain (Option to be Used With Kits 542-0334, 542-0341, and 542-0343) (For 1-3/8" Outside Diameter Tubing)
	526-0122	4	+<Washer, Flat (5/16)				
	862-0015	2	+<Nut, Hex (5/16-18)				
	800-0031	2	+<Screw, Hex Head Cap (5/16-18 x 1-1/2")				
	155-2816-02	1	+<Strap, Muffler Mounting				
	815-0836	2	+<Screw, Hex Washer Head Thread Forming (5/16-18 x 1-1/2")				
	155-2814-02	1	+<Bar, Muffler Support				
	154-2542	1	+<Gasket, Exhaust				
	155-1015	1	+<Clamp, Muffler				
	155-2174	1	+<Hanger, Exhaust				
	154-2540	1	+<Tube, Exhaust				
	155-1239	1	+<Clamp, Muffler				
	155-1485	1	<Muffler, Spark Arrester				
	155-1258	1	+Muffler, Spark Arrester				
37			Kit, RV Accessory				

- \* – Parts included in 542-0343 Vertical Exhaust Kit.
- # – Parts included in 542-0498 Vertical Exhaust Valve Kit.
- ~ – Parts included in 542-0334 Vertical Exhaust Kit.
- @ – Parts included in 542-0341 Vertical Exhaust Kit.
- ^ – Parts Included in 542-0265 Accessory Kit.
- & – Parts Included in 542-0351 Accessory Kit.
- < – Parts Included in 542-0327 Accessory Kit.
- + – Parts Included in 542-0337 Accessory Kit.
- > – Parts Included in 542-0469 RV Accessory Kit.
- ‘ – Parts Included in 542-0470 RV Accessory Kit.
- = – Parts Included in 542-0482 RV Accessory Kit.

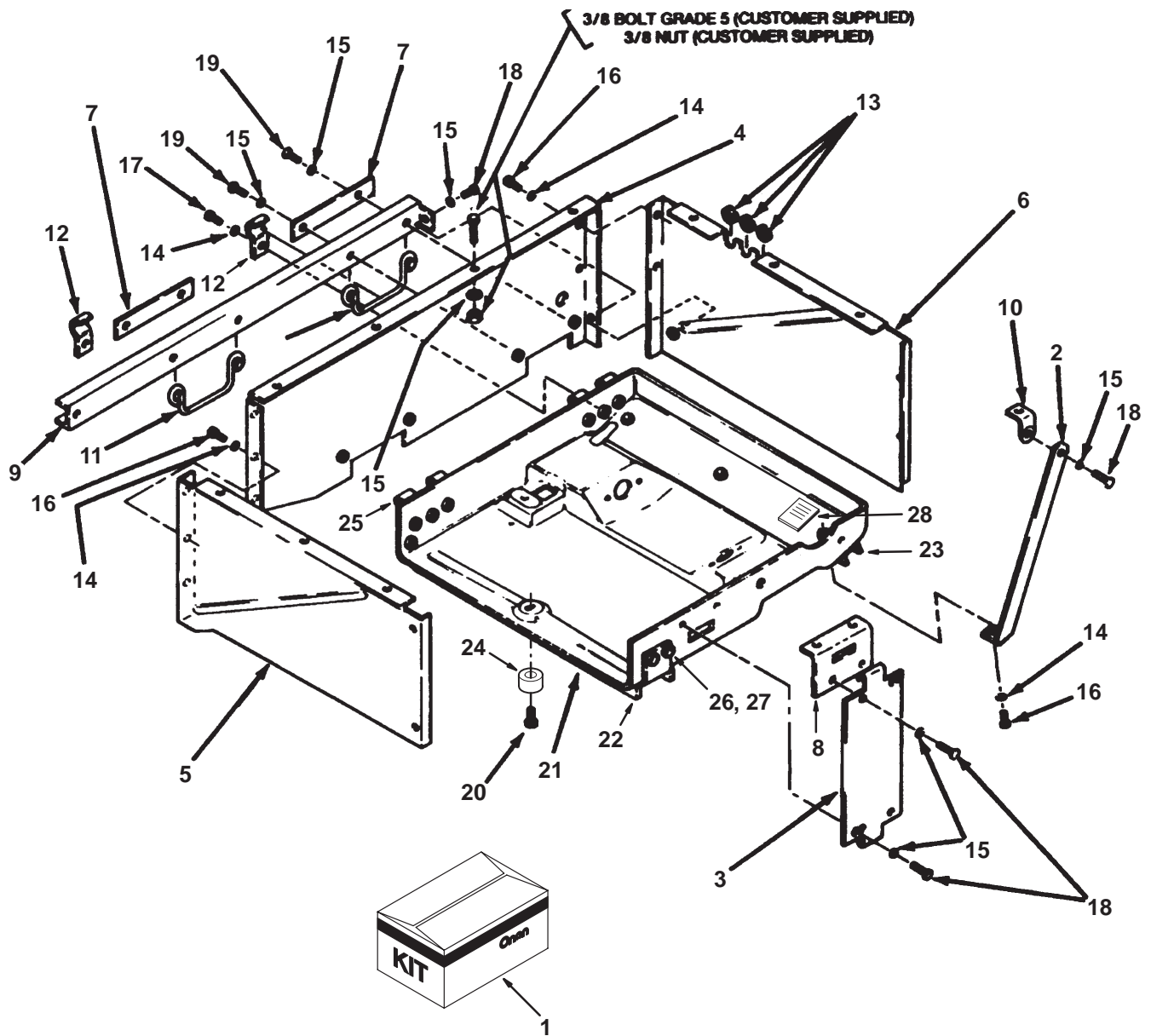
Air Housing



## Air Housing

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Scroll (Includes Baffle)	5			Screw, Flanged Hex Head
	134-4463-70	1	Spec A-H				Tapping
	134-5050	1	Begin Spec J		815-0759	2	Spec A (5/16-18 x 1")
2		1	Housing, Left Air Cylinder		821-0014	2	Begin Spec B (5/16-18 x 1/2")
	134-4353-70	1	Spec A-H (Onan Green)	6	403-1523-01	2	Bracket, Lifting
	134-4353-01	1	Begin Spec J (Premium Green)	7			Housing, Right Air Cylinder
3			Screw, Hex Washer Head		134-4352-70	1	Spec A-H (Onan Green)
			Self Locking		134-4352-01	1	Begin Spec J (Premium Green)
	821-0009	2	Spec A (1/4-20 x 3/8")	8	815-0261	4	Screw, Hex Head Tapping
	821-0010	2	Spec B (1/4-20 x 1/2")	9	134-4354-50	1	Backplate, Scroll
			Begin Spec C	10	134-4348	1	Guard, Scroll
	821-0009	10	LP Vapor	11	870-0415	6	Nut, Self Tapping (1/8")
	821-0009	11	LP Liquid	12	517-0283	1	Plug, Dot Button
4			Shield, Noise				
	155-2579	1	Spec A,B				
	155-2555-51	1	Begin Spec C (For Specs 4.0 FN/7512M, 4.5 FD/7512M, 4.5 FB/7512M, and 4.5 FB/30504M)				

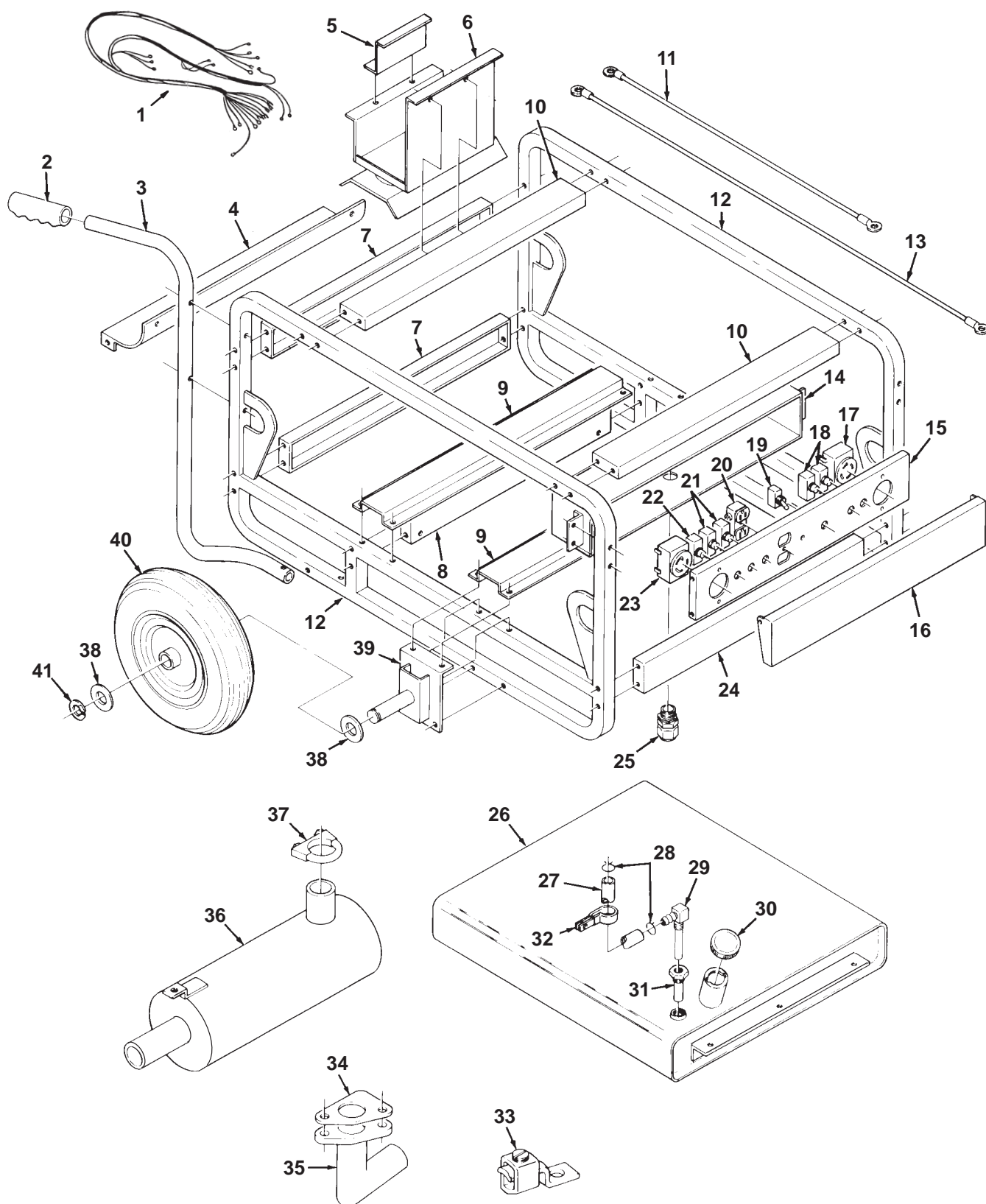
## Housing Below Floor Models



## Housing Below Floor Models

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-5754	1	Kit, Below Floor Housing (Spec J and Up) (Includes All Parts on This Page)	22	403-2725	1	Support, Drip Pan
2	405-3955	1	Support (Includes Label)	23	403-2786-02	1	Support, Drip Pan Assembly
3	405-3974	1	Support (Includes Label)	24	403-2745-02	1	Spacer, Engine Mount
4	405-3986	1	Panel, Housing (Rear)	25	406-0656-02	2	Plate, Hinge
5	405-3988	1	Panel, Housing (Left Hand)	26	526-0122	9	Washer, Flat (5/16")
6	405-3993	1	Panel, Housing (Right Hand)	27	800-0028	9	Screw, Hex Head Cap (5/16-18 x 1")
7	405-3996-02	2	Spacer, Brace	28	98-5313	1	Label, Warning
8	405-3999-02	1	Bracket, Housing	29	G-264	1	Sheet, Instruction (Not Shown)
9	405-4000	1	Brace, Rear	30	539-1001	1	Template, Mounting (Not Shown)
10	405-4037-02	1	Bracket, Housing	31	149-2560	1	Line, Fuel (Not Shown)
11	406-0655	2	Pin, Hinge	32	502-0065	1	Elbow, 45 Degree Inverted (Not Shown)
12	406-0657-02	2	Support, Hinge	33	338-3433	1	Harness, Extension (Not Shown)
13	508-0071	3	Grommet, Rubber	34	149-2559-02	1	Bracket, Fuel Pump (Not Shown)
14	526-0122	8	Washer, Flat (5/16" Hardened)	35	315-0728-03	1	Bracket, Regulator Mounting (Not Shown)
15	526-0174	23	Washer, Flat (3/8" Hardened)	36	815-0290	2	Screw, Hex Washer Head Thread Forming (1/4-20 x 5/8") (Not Shown)
16	800-0026	6	Screw, Hex Head Cap (5/16-18 x 3/4")	37	800-0005	2	Screw, Hex Head Cap (1/4-20 x 3/4") (Not Shown)
17	800-0029	2	Screw, Hex Head Cap (5/16-18 x 1-1/8")	38	870-0212	2	Nut, Lock (1/4-20) (Not Shown)
18	800-0517	6	Screw, Hex Head Cap (3/8-16 x 1")				
19	800-0589	4	Screw, Hex Head Cap (3/8-16 x 1-1/2")				
20	815-0723	1	Screw, Hex Head Cap Locking Thread				
21	403-4109-01	1	Pan, Drip				

## Carrying Frame and Dolly



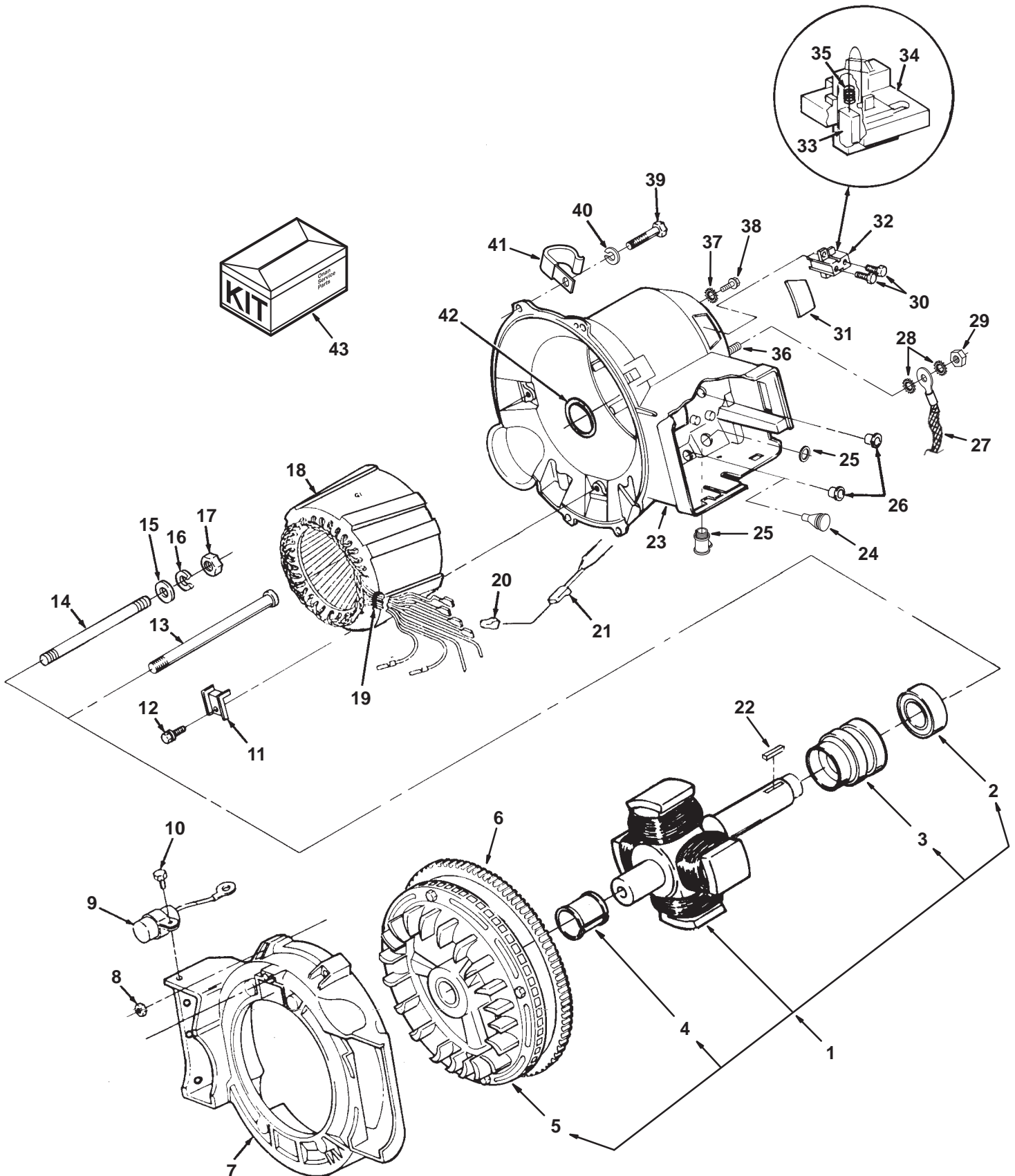
## Carrying Frame and Dolly

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-2386	1	Harness, Wiring	21	320-0540	2	Breaker, Circuit
2	403-1477	2	Grip, Handle	22	320-0543	1	Breaker, Circuit
3	403-2872	2	Handle, Dolly	23	323-1107	1	Receptacle, 30 Ampere – 120 Volt
4	403-2871	1	Baffle, Air	24	403-2866	1	Brace, Frame (3 Hole)
5	416-0950	1	Holddown, Battery	25	331-0244	4	Connector, Conduit (1/2")
6	416-0945	1	Tray, Battery	26	159-1193	1	Tank, Fuel (7 gal)
7	403-2865	2	Brace, Frame (2 Hole)	27	503-0707	1	Line, Fuel
8	403-2868	1	Brace, Frame (5 Hole)	28	503-0301	2	Clamp, Hose
9	403-2870	2	Bracket, Generator Support	29	149-2208	1	Strainer and Elbow
10	403-2867	2	Brace, Frame	30	159-0020	1	Cap, Fuel Tank
11	416-0951-01	1	Cable, Battery (Negative) 26" Long	31	159-1199	1	Tube, Pickup
12	403-2864	2	Frame, Carrying (Side)	32	332-1554	4	Clamp, Loop
13	416-0951-02	1	Cable, Battery (Positive) 40" Long	33	332-0142	1	Lug, Solderless
14	319-0476	1	Box, Receptacle	34	154-2542	1	Gasket, Exhaust
15	319-0477	1	Panel, Receptacle	35	154-2539	1	Tube, Exhaust
16	319-0478	1	Cover, Receptacle Box	36	155-2383	1	Muffler
17	323-1111	1	Receptacle, 20 Ampere – 125/250 Volt	37	155-1256	1	Clamp, Muffler
18	320-0541	2	Breaker, Circuit, 20 Ampere – 125/250 VAC	38	526-0081	4	Washer, Flat (1" Screw)
19	308-0479	1	Switch, Toggle (3 PDT)	39	410-1025	2	Axle, Dolly
20	323-1104	1	Receptacle, 15 Ampere – 120 Volt	40	410-0236	2	Tire and Wheel
				41	518-0130	4	Ring, External Retaining

## Hardware (Not Illustrated)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	800-0031	28	Screw, Cap – Hex Head (5/16-18 x 1.50)		800-0026	2	Screw, Cap – Hex Head (5/16-18 x 3/4) Battery Connectors
	850-0045	36	Washer, Lock (5/16)		856-0008	2	Washer, EIT (5/16) Battery Connectors
	114-0022	8	Screw, Cap – Hex Head (5/16-18 x 1.75)		862-0015	2	Nut, Hex (5/16-18) Battery Connectors
	870-0257	8	Nut, Lock – Hex (5/16-18)		856-0006	2	Washer, EIT (1/4)
	800-0003	12	Screw, Cap – Hex Head (1/4-20 x .50)		800-0003	1	Screw, Cap – Hex Head (1/4-20 x .50)
	850-0040	14	Washer, Lock (1/4)		800-0004	2	Screw, Cap – Hex Head (1/4-20 x .62)
	800-0009	2	Screw, Cap – Hex Head (1/4-20 x 1.50)		850-0040	2	Washer, Lock (1/4)
	870-0131	2	Nut, Hex W/ET (10-32)		800-0730	2	Screw, Cap – Hex Head (5/16-18 x 1.00)
	821-0004	4	Screw, Hex Washer Head (10-32 x .31)		850-0045	2	Washer, Lock (5/16)
	800-0048	3	Screw, Cap – Hex Head (3/8-16 x .75)		526-0130	2	Washer, Flat (1/4" Screw)
	850-0050	4	Washer, Lock (3/8)		800-0056	6	Screw, Cap – Hex Head (3/8-16 x 2.50)
	800-0051	1	Screw, Cap – Hex Head (3/8-16 x 1.25)		870-0281	10	Nut, Hex Washer Head (3/8-16)
	856-0010	2	Washer, EIT (3/8)		850-0050	10	Washer, Lock (3/8)
	862-0003	1	Nut, Hex (3/8-16)		800-0054	4	Screw, Cap – Hex Head (3/8-16 x 2.00)
	870-0281	2	Nut, Hex Washer Head (3/8-16)				
	815-0480	2	Screw, Shoulder (10-32)				
	815-0389	2	Screw, Thread Form (1/4)				

# Generator

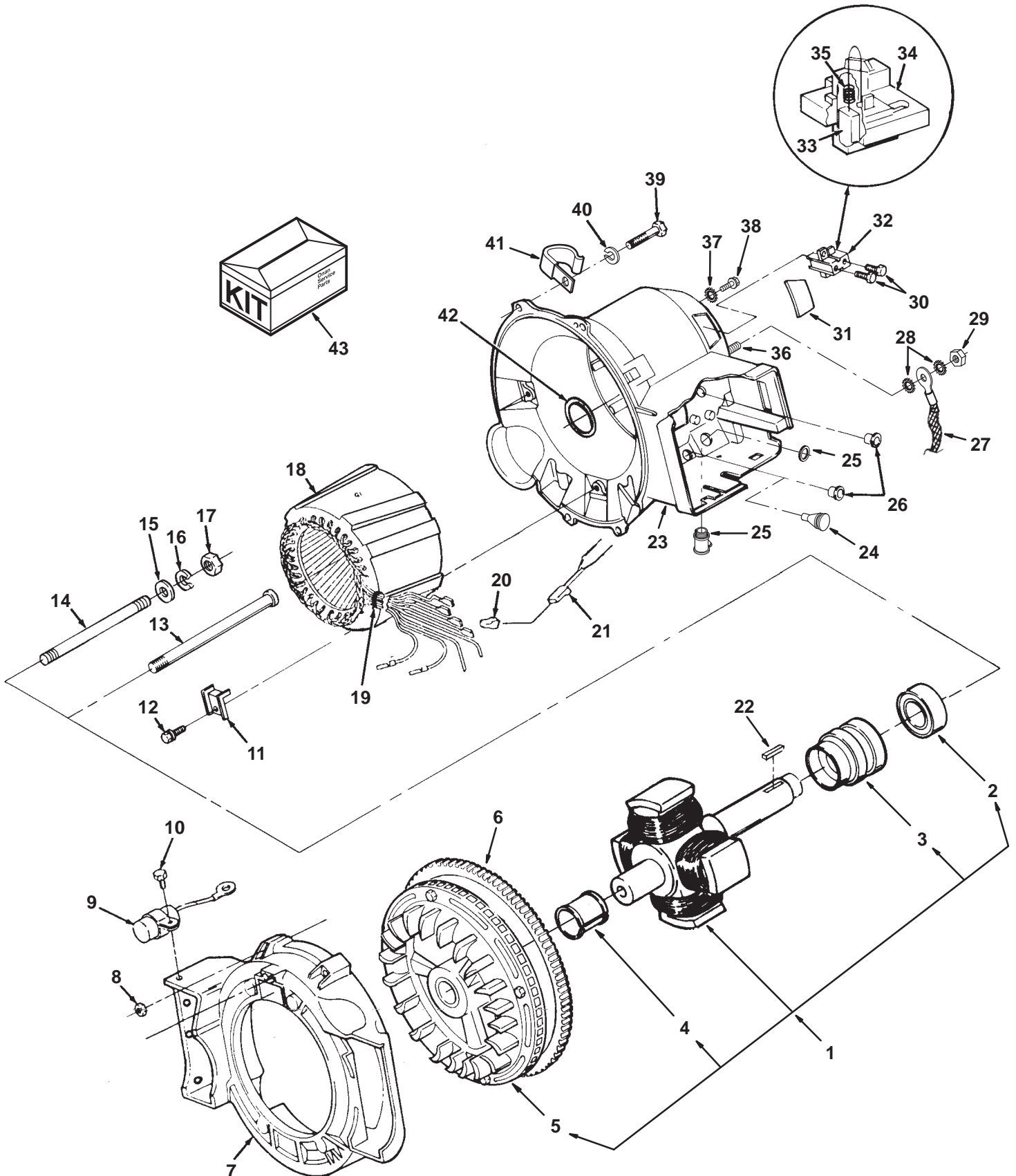




## Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Rotor Assy (Includes, Ball Bearing and Collector Ring)	12	815-0646	3	Screw, Hex Washer Head Cap (1/4-20 x 3/4")
			Spec A-E (Includes Gen Fan and Tolerance Ring)	13	802-1038	1	Screw, Armature Socket Through (Standard Shaft) (7/16-14 x 10.23")
			Standard Shaft				
	201-3388-03	1	Volt Code FA,FB,FN	14	520-0961-02	1	Stud - 13.125" Long Extended Shaft
	201-3388-05	1	Volt Code FD,FT				
			Extended Shaft	15	526-0032	1	Washer, Flat (7/16")
	201-3388-04	1	Volt Code FA,FB,FN	16	850-0055	1	Washer, Lock (7/16")
	201-3388-06	1	Volt Code FD,FT	17	870-0203	1	Nut, Hex (7/16-20)
			Spec F, G	18			Stator, Generator
			Standard Shaft				Spec A-F
	201-3509-01	1	Volt Code FA,FB,FN	220-4135-04	1		Volt Code FA,FB
	201-3509-03	1	Volt Code FD,FT	220-4194-03	1		Volt Code FD
			Extended Shaft	220-4135-03	1		Volt Code FN
	201-3509-02	1	Volt Code FA,FB,FN	220-4194-02	1		Volt Code FT
	201-3509-04	1	Volt Code FD,FT				Spec G, H
			Spec H (Includes Fan & Gear)	220-4135-04	1		Volt Code FA,FB
			Standard Shaft	220-4194-06	1		Volt Code FD
	201-3514-01	1	Volt Code FA,FB,FN	220-4135-03	1		Volt Code FN
	201-3514-03	1	Volt Code FD,FT	220-4194-05	1		Volt Code FT
			Extended Shaft				Begin Spec J
	201-3514-02	1	Volt Code FA,FB,FN	220-4135-07	1		Volt Code FB
	201-3514-04	1	Volt Code FD,FT	220-4194-09	1		Volt Code FD
			Begin Spec J (Includes Fan & Gear)	220-4135-08	1		Volt Code FN
			Standard Shaft	19	332-0941	1	Tie, Cable
			Volt Code FA,FB,FN	20	323-1298	2	Connector, Tab
	201-3525-01	1	Volt Code FD,FT	21	332-0819	2	Connector, Receptacle
	201-3525-03	1	Extended Shaft	22	515-0142	1	Key, Extended Shaft (1/4" x 1")
			Volt Code FA,FB,FN	23			Housing, Stator
	201-3525-02	1	Volt Code FD,FT				Standard Shaft
	201-3525-04	1					Spec A-F
2	510-0185	1	Kit, Bearing Replacement	220-4133	1		Spec G-H
3	204-0134	1	Ring, Armature Collector				
4	518-0460	1	Ring, Tolerance (Spec A-E)	220-4133	1		Volt Code FB, FN
5			Fan, Generator	220-4133-02	1		Volt Code FD, FT
	205-0165	1	Spec A-G (Note: When replacing generator fan, tolerance ring 518-0460 must also be replaced)	220-4438-02	1		Begin Spec J
							Begin Spec K
				220-4532-01	1		Single Phase
	205-0221	1	Spec H (Includes Ring Gear)	220-4532-03	1		Three Phase
	205-0241	1	Begin Spec J (Includes Ring Gear)				Extended Shaft
				220-4193-01	1		Spec A-H
6			Gear, Ring				Begin Spec J
	104-1570	1	Spec H	220-4439			Volt Code FB, FN
	104-0779	1	Begin Spec J	220-4439-01	1		Volt Code FD, FT
7			Adapter, Generator	24	517-0319	1	Plug, Control Box (Spec A-H)
	231-0288-01	1	Spec A-H	25	331-0536	1	Connector, Conduit (Includes Fastener) (Begin Spec G)
			Begin Spec J				Grommet, Nylon (.68" ID)
	231-0381-01	1	Single Phase	26			Spec A-H
	231-0381-03	1	Three Phase	508-0272	2		Begin Spec J
8			Nut, Hex	508-0272	1		Strap, Bond (Begin Spec J)
	862-0003	6	Spec A-H (3/8-16)	27	337-2808	1	Washer, EIT (3/8") (Begin Spec J)
	862-0041	2	Begin Spec J	28	856-0008	2	Nut, Hex (5/16-18) (Begin Spec J)
9	312-0256	1	Condenser, Ignition (Spec A-F, H,J)	29	821-0015	1	Screw (10-32 x 7/8")
10			Screw, Hex Washer Head Thread Forming	30			Spec A,B Hex Head Thread Forming
	815-0340	1	Spec A (10-32 x 3/8")	815-0359	2		Begin Spec C, Pan Head Torx Drive
	815-0770	1	Begin Spec B (Special)	815-0788	2		
11	232-2955-02	3	Clamp, Stator				

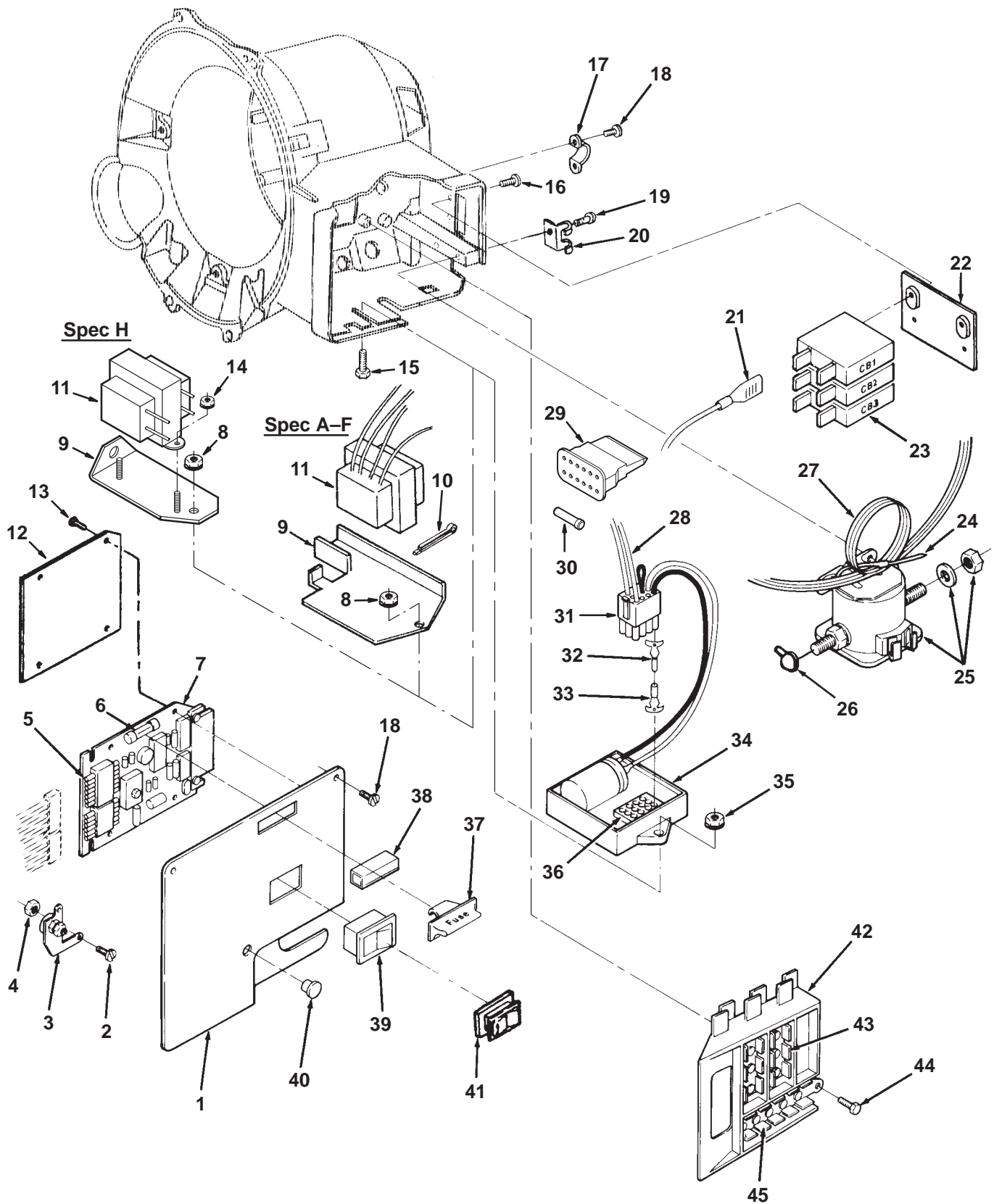
# Generator



## Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
31	212-1284	1	Cover, Brush Block	40			Washer, Spring Lock (3/8")
32	212-1285	1	Block, Brush (Includes Parts Marked *)		850-0050	4	Spec A-H
33	214-0103	2	*Brush, Generator		850-0114-07	4	Spec J Only
34	212-1286	1	*Block, Terminal	41	332-3359	1	Clip, Harness
35	212-1276-03	2	*Spring, Generator Brush	42	509-0196	1	O-Ring, Stator Housing
36	332-3328	1	Stud, Grounding	43			Kit, Rotor (Includes Rotor Assy and Starter)
37	856-0010	1	Washer, EIT Lock (3/8") (Gasoline Sets)				Standard Shaft
38	821-0031	1	Screw (3/8-16 x 1") (Gasoline Sets)		300-4451	1	Volt Code FA, FB, FN
39			Screw, Head Hex Flange		300-4453	1	Volt Code FD, FT
	800-0575	4	Spec A-F (3/8-16 x 1-1/8")				Extended Shaft
	800-0052	4	Spec G, H (3/8-16 x 1-1/2")		300-4442	1	Volt Code FA.,FB, FN
	800-0600	4	Spec J (3/8-16 x 1-1/2")		300-4452	1	Volt Code FD, FT
	815-0908	4	Begin Spec K (3/8-16 x 1-1/2)	* - Parts Included in Generator Brush Block.			

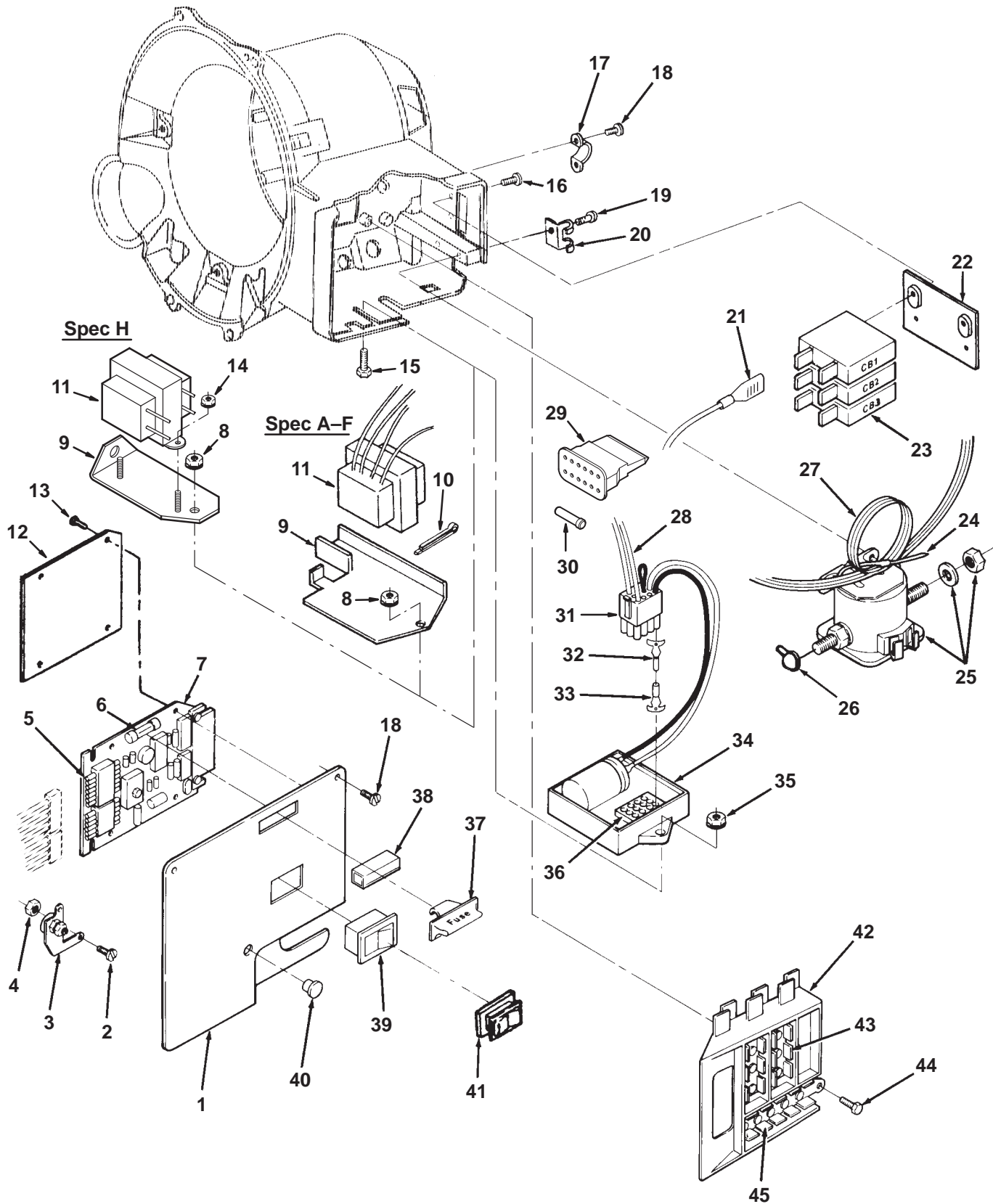
# Control (Spec A-H)



## Control (Spec A-H)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cover, Control	17	232-3265-02	1	Clamp, Conduit
	319-1238	1	Spec A,B	18	815-0661	2	Screw, Pan Head Thread Forming (10-32 x 1/2")
	319-1237	1	Spec C-E				
			Spec F	19	815-0692-02	1	Screw, Pan Head Torx (Special)
	319-1237-03	1	4.0kW				
	319-1237-06	1	4.5kW	20	321-0323-02	1	Bracket, Fuse Holder (Begin Spec F)
	319-1237-08	1	3.5kW				
			Spec G,H	21			Lead, Circuit Breaker
			4.0kW		226-3504	2	Volt Code FA,FB,FD,FN
	319-1237-03		Volt Code FA, FB, FN		226-3852-01	1	Volt Code FD
	319-1238-10	1	Volt Code FT		226-3852-02	1	Volt Code FD
	319-1237-08	1	3.5kW		226-3852-03	1	Volt Code FD
			4.5kW		226-3504-01	1	Begin Spec C Volt Code FB,FD,FN
	319-1237-06	1	Volt Code FB				
	319-1238-13	1	Volt Code FD	22	320-1694	1	Cover, Circuit Breaker – Volt Code FT (Begin Spec C)
2	815-0385	1	Screw, Round Head (Spec A-F) (#6-32 x 1/2")	23			Breaker, Circuit (CB1, CB2) Spec A-D
3	303-0276	1	Potentiometer (R5)				
4	870-0183	1	Nut, Hex (#6-32) (Spec A-F)		320-1649-02	1	12A
5	323-1302	8	Pin, Contact		320-1323	2	30A
6	321-0298	3	Fuse, 5 Amp (F1)				Spec F-J
7			Board, Printed Circuit (Includes Fuse) (A1)		320-1320	2	3.5 KW (15A)
			Spec A,B				4.0 KW
	300-3951	1	Spec C-H		320-1320	2	Volt Code FA (15A)
			Sets without Battery		320-1321	2	Volt Code FB, FN (20A)
	300-3763-03	1	Charger		320-1321	1	Spec FB/7512J Only
			Sets with Battery Charger				4.5 KW
	300-3763-04	1			320-1321	2	Volt Code FB (20A)
8	870-0131	1	Nut, W/ET (10-32)				Volt Code FD
9			Bracket, Transformer		320-1649-03	1	Spec 1 & 30502 (15A)
	319-0568	1	Spec A-F		320-1649-05	1	Spec 67403 & 67404 (20A)
	315-0739-02		Begin Spec H				Begin Spec M
10	516-0069	1	Pin, Cotter (Spec A-F)				20 Amps
11			Transformer, Voltage Regulator (T2)		320-1548-04	1	30 Amps
			Spec A-F		320-1548-05	1	
	315-0684	1	Spec A-F	24	332-0941	1	Tie, Cable
	315-0738	1	Begin Spec H	25	307-2570	1	Solenoid, Start (K1) (Includes Nuts and Washers)
12	332-3075	1	Insulator, PC Board				Insulator Start Solenoid Terminal (Optional)
13	815-0550	4	Screw, Pan Head Cross Recessed (6-32 x 3/8")	26	332-2112	1	Harness, AC Outlet
14	870-1183	2	Nut, Hex W/ET (#6-32) (Begin Spec H)	27			Volt Code FA,FB,FN
15	821-0003	1	Screw, Lock Head Flange (#10-32 x 1")		338-2332	1	Volt Code FD
			Screw, (2 per each Circuit Breaker)		338-2360	1	VoltCode FT (Begin Spec C)
			Slotted Head IT (6/32 x 1/2")		338-2572	1	Volt Code FB (Begin Spec C)
	815-0662	2			338-2058	1	
			Pan Head Cross Recessed (6/32 x 3/8") Volt Code FA,FB,FD,FN (Begin Spec C)				
	815-0550	4					

# Control (Spec A-H)



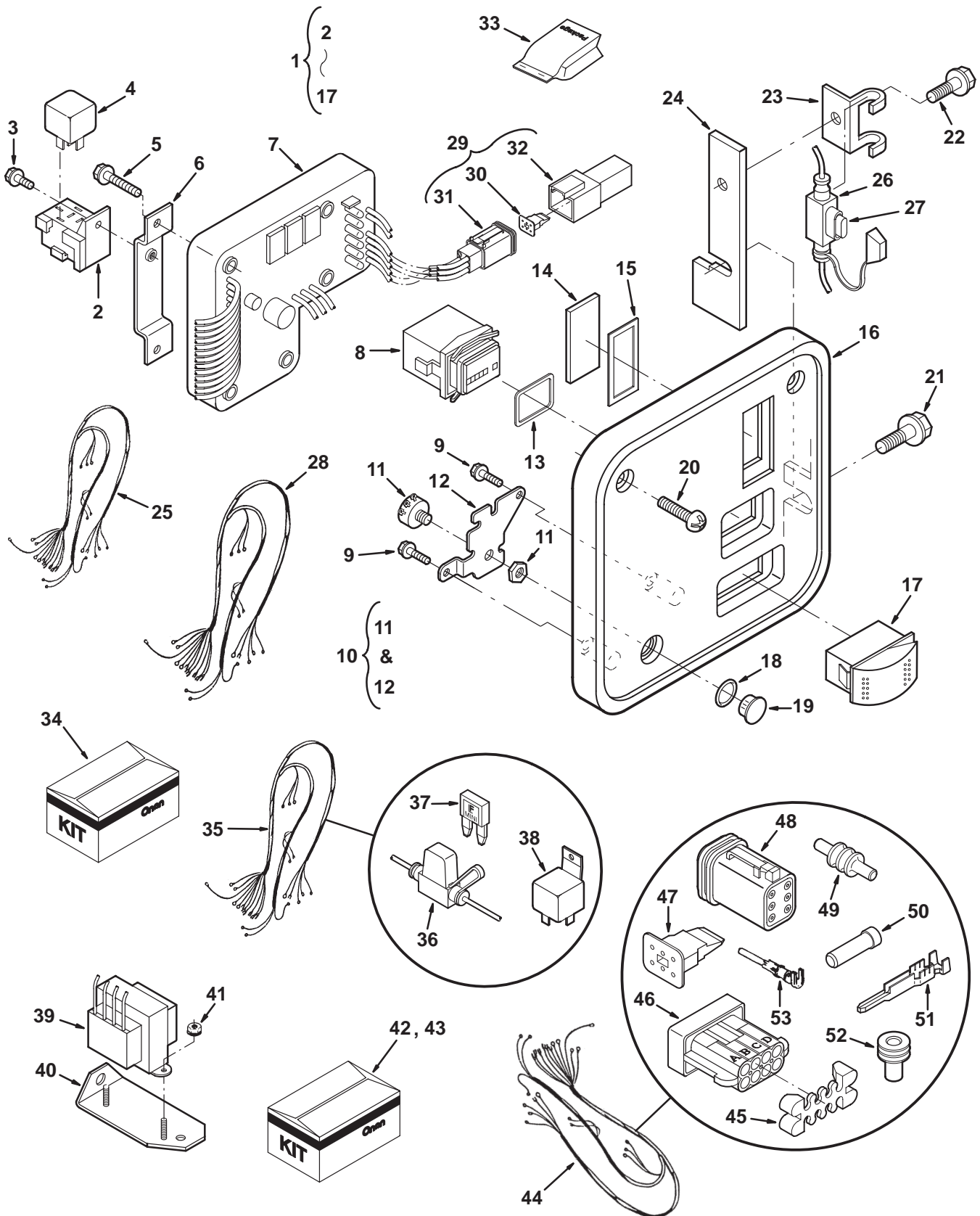
## Control (Spec A–H)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
28			Harness, Voltage Regulator (Includes 12 Pin Housing and Sockets) Spec A–F	33	323–1200	9	Socket, Contact – 60 Hertz Spec A–F
	338–2083	1	Volt Code FA,FB,FN – 4.0BGD	34			Regulator, Voltage (VR1) Spec A–F
	338–2083–01	1	Volt Code FN – 50 Hz 3 Leads – 3.5BGD		305–0809–05	1	Volt Code FA, FB
	338–2083–02	1	Volt Code FD – 60 Hz – 3 Phase, 4.5BGD		305–0883		Volt Code FD
	338–2083–03	1	Volt Code FT – 50 Hz – 3 Phase (Begin Spec C)		305–0809–03	1	Volt Code FN
	338–2076	1	Volt Code FB – 60 Hertz (Begin Spec C)		305–0830–01	1	Volt Code FT
			Spec G, H				Spec G, H
	338–2083		Volt Code FA, FB, FN (Includes 12 Pin Housing and Sockets)		305–0809–05	1	Volt Code FA, FB
					305–0881	1	Volt Code FD, FT
	338–2918	1	Volt Code FD, FT (Includes Parts Marked *)		305–0809–03	1	Volt Code FN
29	323–1583	1	*Wedge, Connector Housing Spec G	35	870–0131	1	Nut, Hex W/ET (10–32)
30	323–1591	5	*Plug, Connector Housing (Spec G)	36	323–1371	1	Header (12 Pin) Spec A–F (P4)
31			Housing, Connector (12 Pin)	37	321–0295	1	Holder, Fuse (Holds Spare Fuse)
	323–1314	1	Spec A–F (J4)	38	321–0287	1	Insulator, Fuse
	323–1582	1	* Spec G (P4) (Three Phase Sets)	39	308–0995	1	Switch, Rocker
32			Pin, Contact	40	517–0133	1	Plug, Hole
	323–1199	12	Spec A–F	41	308–0949	1	Cover, Foam Rubber Switch
	323–1491	7	Spec G (Three Phase Sets)	42			Block, Terminal
					332–2859–02	1	Volt Code FB (Begin Spec C) (4500 Watts)
					332–2859–01	1	All Others
				43			Terminal, Tab
					332–1815	2	Volt Code FB,FN
					332–1815	3	Volt Code FD
				44	815–0691–01	1	Screw, Pan Head (Special)
				45	332–2868	1	Terminal, Ground

\* – Parts Included in 338–2918 Wiring Harness.



# Control (Begin Spec J)





# Control (Begin Spec J)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Box Assy, Control (Includes Parts Marked *)	33	305-0923	1	Kit, Remote Adapter (Includes Parts Marked &) (Use With 323-1625 Connector) (Must Splice To Harness in Remote Adapter Kit 305-0979 Begin Spec M)
	300-4505	1	Volt Code FA, FB, FN				
	300-4505-01	1	Volt Code FD, FT				
2	323-1563	1	*Socket, Relay				
3	821-0002	1	*Screw, Hex Washer Head (#10-32 x 1/4")		C-477	1	&Sheet, Instruction
4	307-2767	1	*Relay, Starter		332-3376-02	5	&Splice, Thermal
5	815-0870	5	*Screw, Slotted Hex Washer Head (#10-16 x 1-1/4")		321-0321-06	2	&Fuse, 10 Amp
6	307-2833-03	1	*Bracket, Starter Relay		323-1626	1	&Wedge, Receptacle
7	300-5002-01	1	*Board, PC		226-4662	5	&Lead Assembly, Adapter
8	302-2002	1	*Hourmeter	34	541-0543	1	Kit, Wiring (Spec J and Up) (Includes Parts Marked #)
9	815-0867	2	*Screw, Hex Washer Head (#6-32 x 1/2") (Volt Code FA, FB, FN)		612-6717	1	#Wiring Diagram, Start With Automatic Transfer Switch (Not Shown)
10	303-0276	1	*Potentiometer Assy (R5) (Includes Bracket and Potentiometer) (Volt Code FA, FB, FN)	35	338-3624	1	#Harness, Engine Start (Includes Parts Marked ~)
11	303-0275	1	Potentiometer (R5) (Volt Code FA, FB, FN) (Includes Nut)	36	321-0322	1	~Holder, Fuse
12	319-0668	1	Bracket, Potentiometer	37	321-0321-04	1	~Fuse (5 Amp)
13	302-2003	1	*Gasket, Hourmeter	38	307-1886	1	~Relay
14	319-2359	1	*Window, Control Box	39	315-0758	1	Transformer, Voltage (50 Hz)
15	319-2360	1	*Gasket, Window	40	315-0739-02	1	Bracket, Transformer
16	319-2272	1	*Cover, Control Box	41	870-1183	2	Nut, External Tooth Hex (#6-32)
17	308-1050	1	*Switch, Rocker	42	305-0979		Kit, Remote Adapter (Begin Spec M) (Includes Parts Marked ^)
18	509-0313	1	O'Ring		323-1708	2	^Seal, Cable
19	517-0133	1	Plug, Hole		332-3582	1	^Splice, Thermal
20	815-0788	2	Screw, Torx (#10-32 x .88)		300-4946	1	^Harness, Remote
21	815-0384	1	Screw, Hex Washer Head		C-571	1	^Sheet, Instruction
22			Attachment, Connector Hole Cover	43	305-0980	1	Kit, Remote Adapter
	870-0065	1	Nut, Hex Lock (Spec A-J)	44	338-3673	1	Harness, Adaptor (Includes Parts Marked >)
	815-0261	1	Screw, Hex Washer Head (Begin Spec K) (1/4-20 x 1/2")	45	323-1741		>Lock, Housing (8 Pin)
23	321-0323-02	1	Bracket, Fuse Holder	46	323-1744	1	>Connector, Receptacle (8 Pin)
24			Cover, Connector Hole	47	323-1624	1	>Wedge, Plug (6 PL)
	232-3836-02	1	Spec A-J	48	323-1623	1	>Connector, Plug (6 PL)
	232-3933-02	1	Begin Spec K	49	323-1712	3	>Plug, Cavity
25	338-3143	1	Harness, Engine (Includes Fuse Holder and Fuse)	50	323-1591	1	>Plug, Seal
26	321-0322	1	Holder, Fuse	51	323-1707	5	>Pin, Terminal
27	321-0321-06	1	Fuse, 10A (F2)	52	323-1708	5	>Seal, Cable
28			Harness, Wiring - AC Output	53	323-1492	5	>Terminal, Socket
	338-2332	1	Volt Code FA,FB,FN				
	338-2360	1	Volt Code FD				
	338-2572	1	Volt Code FT				
29	338-3109	1	Harness, PCB (Includes Connectors and Plug Wedge)				
30	323-1624	1	Wedge, Plug (6 PL)				
31	323-1623	1	Connector, Plug (6 PL)				
32	323-1625	1	Connector, Receptacle (6 PL)				

\* - Parts Included in Control Box Assy.

& - Parts Included in 305-0923 Remote Adapter Kit.

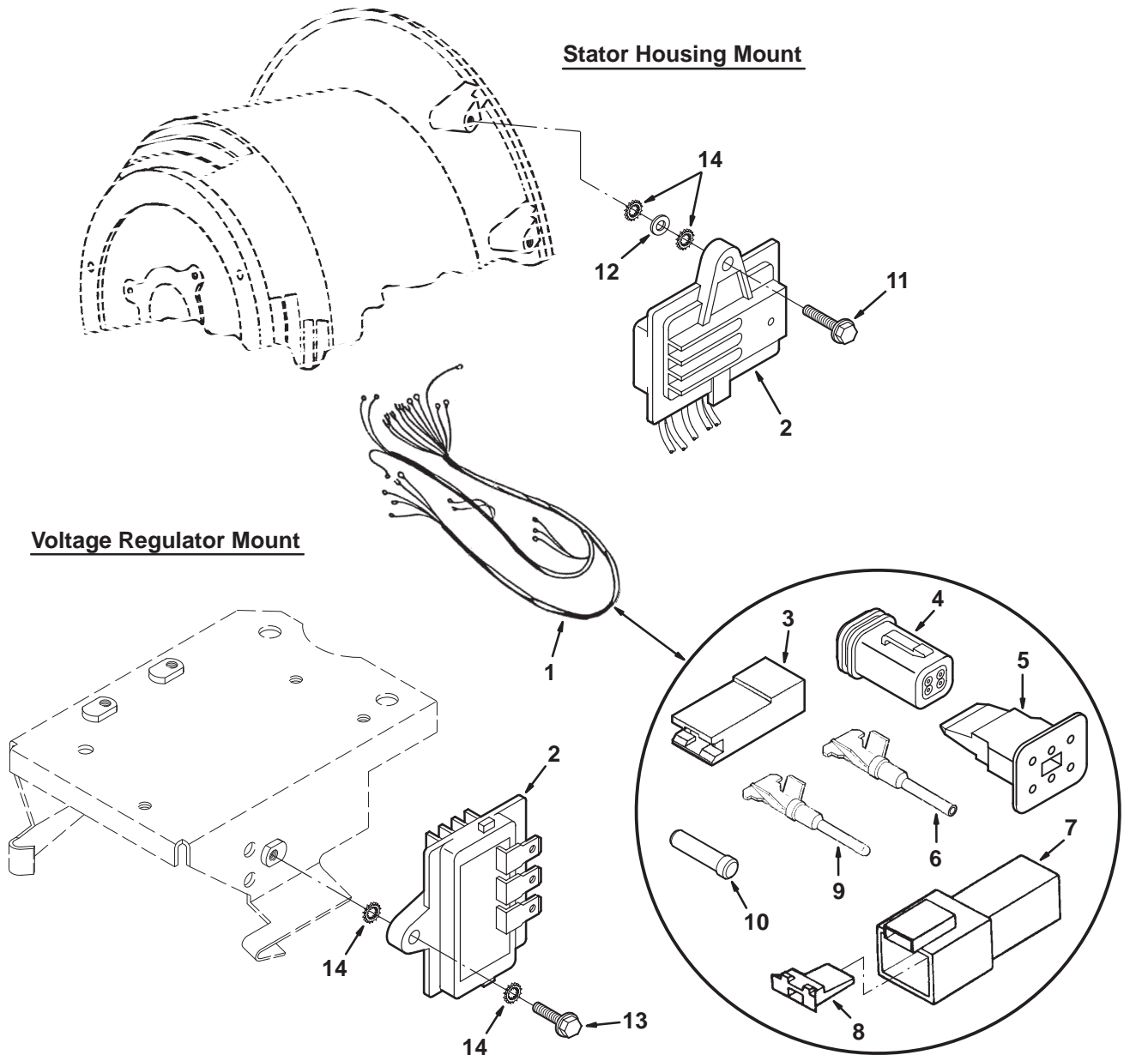
# - Parts Included in Wiring Kit.

~ - Parts Included in Engine Start Harness.

^ - Parts Included in 305-0979 Remote Adapter Kit.

> - Parts Included in Harness Adapter.

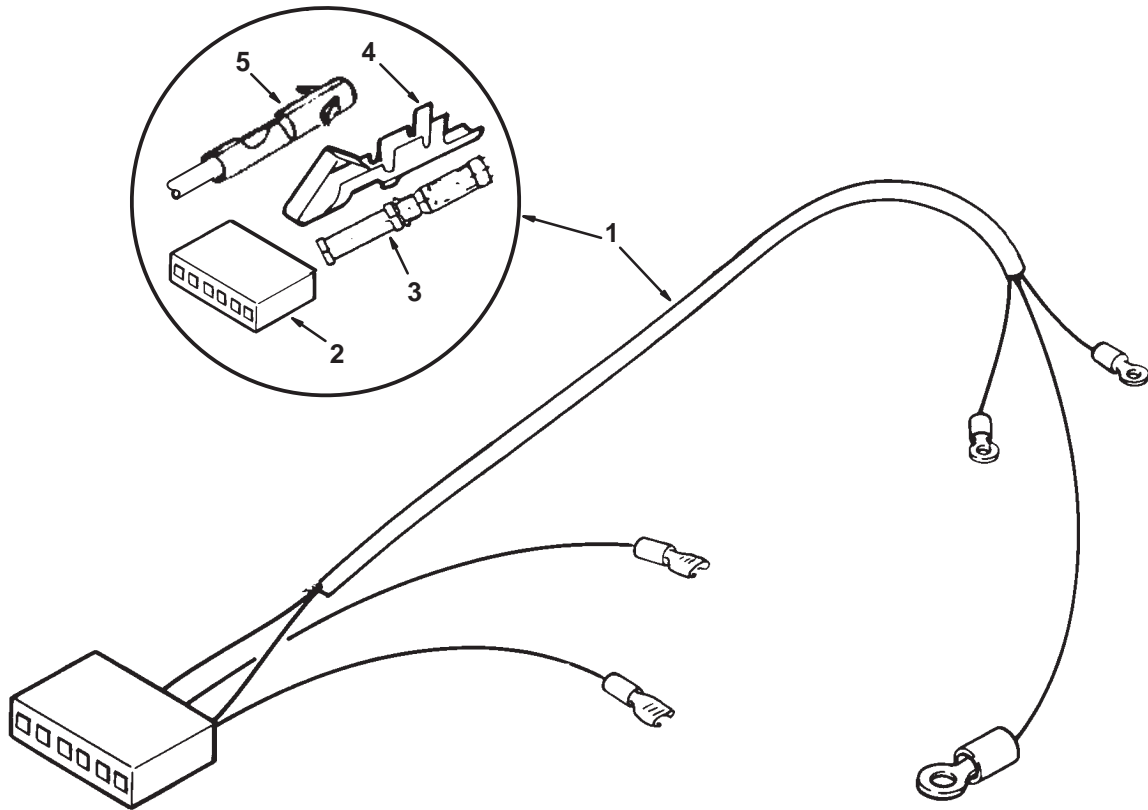
# Wiring Harness Battery Regulator (Begin Spec J)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-3145	1	Harness, Battery Regulator (Includes Parts Marked +)	10	323-1591	1	+Plug, Connector
2	191-2139	1	+Regulator, Battery (VR2)	11	815-0610	1	Screw, Hex Head Thread Forming (1/4-20 x 1")
3	323-1216	1	+Body, Connector	12	526-0018	1	Washer, Flat
4	323-1623	1	+Connector, Plug	13	821-0018	1	Screw, Hex Lock (1/4-20 x 5/8")
5	323-1624	1	+Wedge, Plug	14	856-0006	4	Washer, EIT (1/4)
6	323-1492	1	+Socket, Terminal				
7	323-1505	1	+Connector, Receptacle				
8	323-1501	1	+Wedge, Receptacle				
9	323-1491	1	+Pin, Terminal				

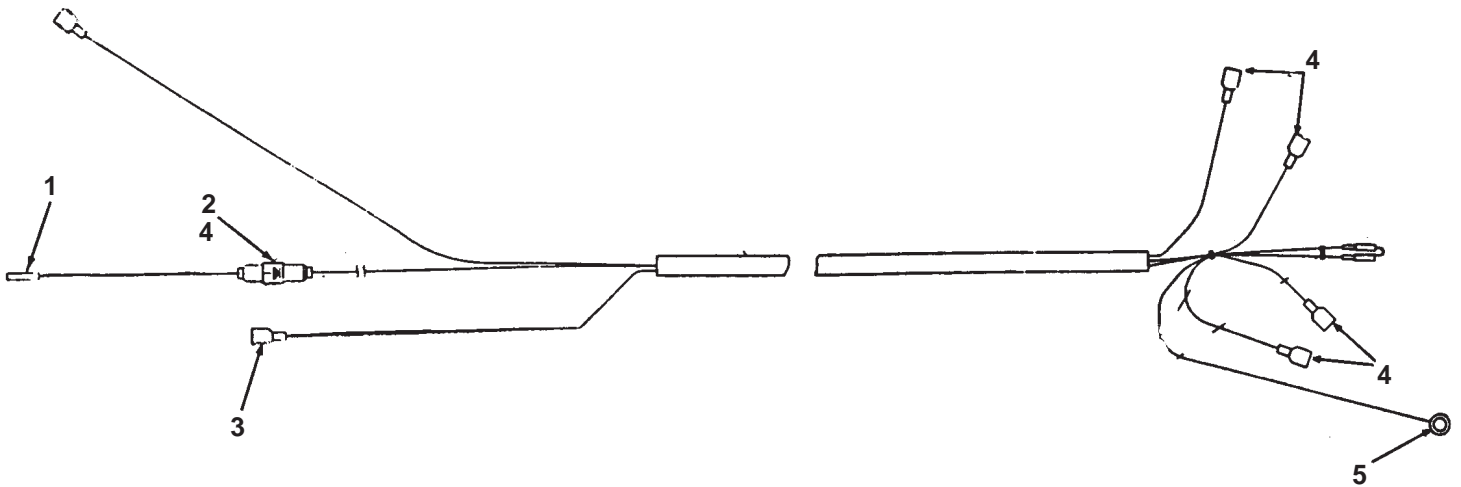
+ - Parts Included in Battery Regulator Harness.

## Wiring Harness Printed Circuit Board



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring	2			Housing (J1)
	338-2041	1	6 Pin Housing		323-1329	1	6 Pin
	338-2086	1	Gasoline		323-1312	1	8 Pin
	338-2320	1	LP		323-1487-03	1	12 Pin
			8 Pin Housing – Gasoline	3			Socket, Contact
			12 Pin Housing – Gasoline		323-1486	8	Spec A-F
			Spec C-E		323-1486	10	Spec G
	338-2636	1	6 Wire Harness	4			Pin, Contact
	338-2637	1	5 Wire Harness – Used		323-1440	6	Use With 6 Pin Housing
			with Battery Charger		323-1302	8	Use With 8 Pin Housing
	338-2637-01	1	8 Wire Harness – Used	5	323-1200	10	Socket, Contact
			without Battery				
			Charger				
	338-2775	1	Spec F – 10 Wire Harness				
			Spec G,H 10 Wire Harness				
	338-2775	1	Volt Code FA, FB, FN				
	338-2919	1	Volt Code FD, FT				
	338-3105	1	Begin Spec J – 10 Wire				
			Harness				

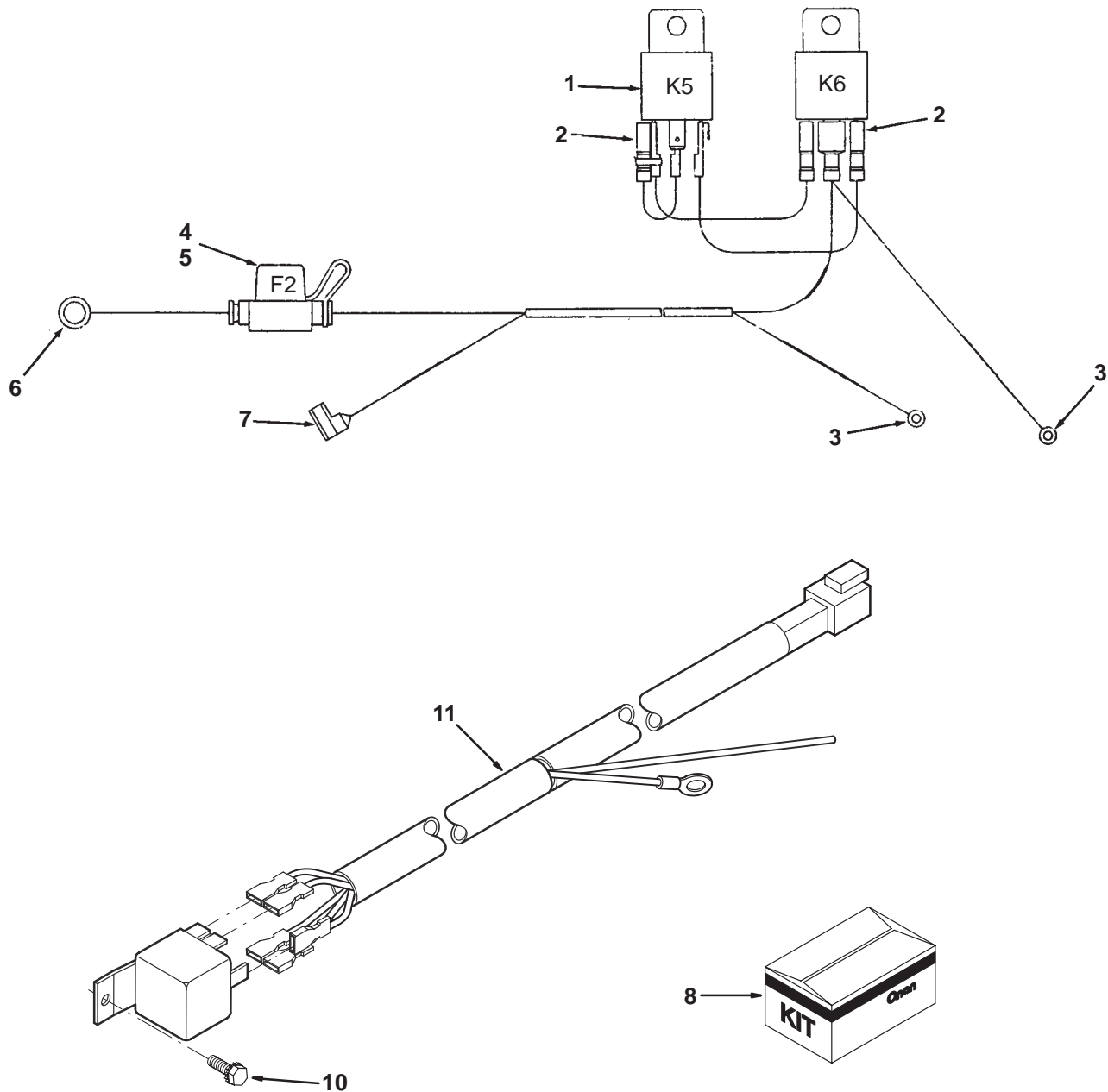
**Wiring Harness  
Positive Shutoff  
(Without Battery Charger)  
(Begin Spec C)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	338-2790		Harness, Positive Shutoff Gasoline (Begin Spec C)
1	323-1486	1	Socket, Contact
2	357-0067	1	Rectifier

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	332-2431	1	Terminal, Receptacle (.25)
4	332-1993	6	Terminal, Receptacle (.25)
5	332-0806	1	Ring (#8)

# **Wiring Harness Automatic Choke (Begin Spec F)**

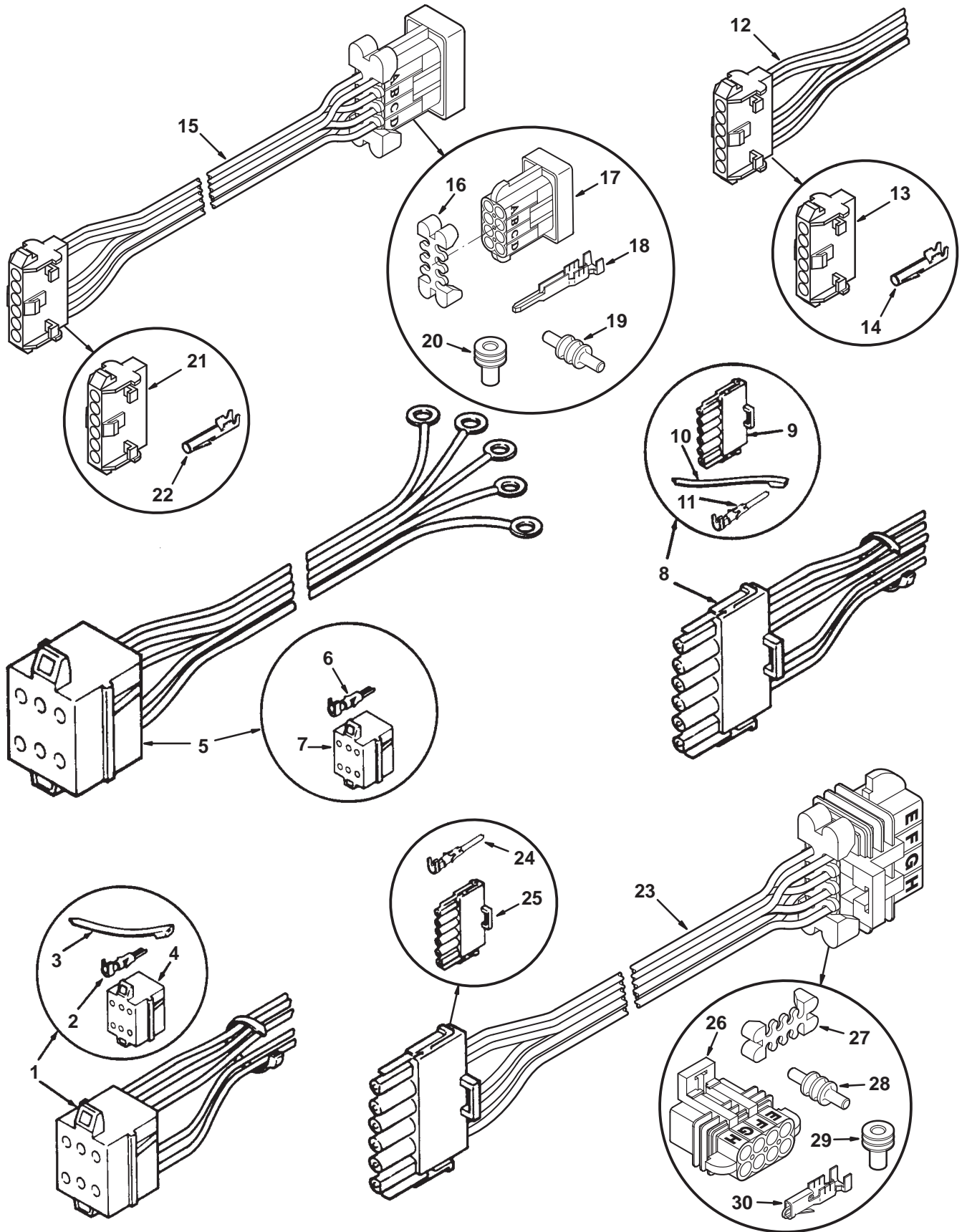


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	338-2815	1	Harness, Automatic Choke (Begin Spec F)
1	307-1886	2	Relay (K5,K6)
2	332-1993	4	Terminal, Faston
3	332-0806	2	Terminal, Ring (#8)
4	321-0322	1	Holder, Fuse
5	321-0321-06	1	Fuse (10 amp) (F2)
6	332-1194	1	Terminal, Ring (5/16")
7	332-0682	1	Terminal, Faston

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	542-0336	1	Kit, Enable Relay Start (Includes Parts Marked *)
9	C100	1	* Instruction Sheet (Not Shown)
10	815-0181	1	* Screw, Hex Head Thread Cutting With ET (10-32 x 1/2")
11	338-3239	1	* Harness Assembly

\* – Parts Included in Enable Relay Start Kit.

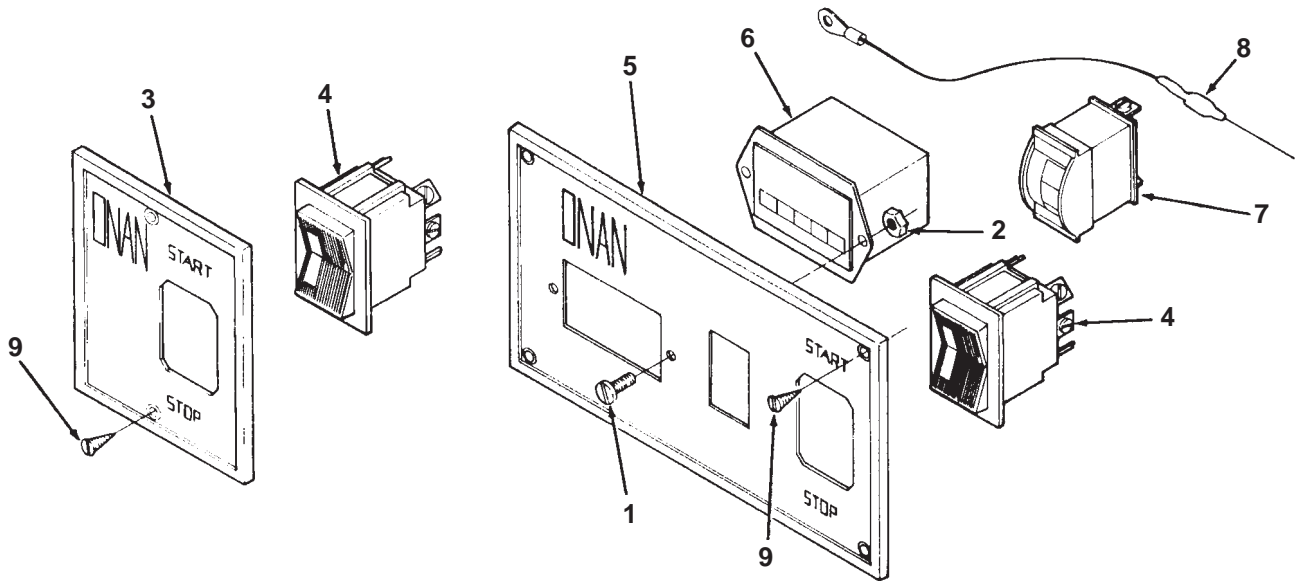
## Remote Wiring Harness



## Remote Wiring Harness

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-1082	1	Harness, Wiring – 6" (Includes Contact Pin, Cable Tie and Connector Housing)	13	323-1342	1	* Housing, Terminal
2	323-0500	5	Pin, Contact	14	323-1200	5	* Socket, Contact
3	332-0942	1	Tie, Cable	15	338-3513	1	Harness, Adaptor (Includes Parts Marked #)
4	323-0400	1	Housing, Connector (6 Place)	16	323-1741		# Lock, Housing (8 Pin)
5			Harness, Wiring (Includes Contact Pin and Connector Housing) Ten Feet	17	323-1744	1	# Connector, Receptacle (8 Pin)
	338-1080	1	Spec A-H	18	323-1707	5	# Pin, Terminal
	338-2260-01	1	Begin Spec J	19	323-1712	3	# Plug, Cavity
	338-3489-01	1	Begin Spec M	20	323-1708	5	# Seal, Cable
			Thirty Feet	21	323-1342	1	# Housing, Terminal
	338-1081	1	Spec A-H	22	323-1200	5	# Socket, Contact
	338-2260-02	1	Begin Spec J	23	338-3514	1	Harness, Adaptor (Includes Parts Marked ~)
	338-3489-02	1	Begin Spec M	24	323-1199	5	~ Pin, Contact
6	323-0500	5	Pin, Contact	25	323-1304	1	~ Housing, Connector (6 Place)
7	323-0400	1	Housing, Connector (6 Place)	26	323-1743	1	~ Connector, Plug (8 Pin)
8	338-2046	1	Harness, Wiring-6" (Spec A-J) (Includes Connector Housing, Cable Tie and Contact Pin)	27	323-1741		~ Lock, Housing (8 Pin)
9	323-1304	1	Housing, Connector (6 Place)	28	323-1712	3	~ Plug, Cavity
10	332-0942	1	Tie, Cable	29	323-1708	5	~ Seal, Cable
11	323-1199	5	Pin, Contact	30	323-1709	5	~ Socket, Terminal
12	338-3572	1	Harness, Adapter (Includes Parts Marked *) (Use With Gasoline and LP Kits 300-4936, 300-4937, & 300-4938)				* – Parts Included in 338-3572 Adapter Harness.
							# – Parts Included in 338-3513 Adapter Harness.
							~ – Parts Included in 338-3514 Adapter Harness.

## Remote Start Control



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0385	2	Screw, Round Head Machine (#6-32 x 1/2")
2	860-0006	2	Nut, Hex Head (#6-32)
3	301-3566	1	Panel, Control (Standard)
4	308-0341	1	Switch, Rocker (S1)
5	301-3606	1	Panel, Control (Deluxe)
6	302-0885	1	Meter, Time Totalizing (M2)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	302-0888	1	Meter, Battery Condition (M1)
8	359-0034	1	Diode
9			Screw, Cross Recessed Oval Head Wood (#5-1/2")
	815-0380	2	Standard Control
	815-0380	4	Deluxe Control



**Conversion Enhancement Kit  
(Kit Number 146-0586)  
(Spec A-E)**

**Note:** This kit is for conversion use on Spec A through E gasoline fueled generator sets. When this kit is installed, this parts list should be reviewed first to determine service replacement parts.

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	146-0663	1	Carburetor – Complete (See Separate Page for Components)		332-0942	5	Tie, Cable
					332-3166	1	Marker, Wire (K5-85) (Ignition Coil Lead)
	141-0958	1	Gasket – Carburetor to Manifold		98-6618-01	1	Label – Oil Capacity
	140-2308	1	Gasket – Carburetor Air Horn		862-0015	1	Nut, Hex (5/16-18)
	167-0272	2	Plug, Spark		509-0294	1	O-Ring (Preheater Hose)
	123-1961	1	Cap, Oil Fill		140-2725	1	Adapter, Air Cleaner
	502-0028	1	Plug, Pipe – Hex Head (1/8") Brass (Intake Manifold)		509-0096	1	Seal, O-Ring (Oil Fill Cap)
	319-1598-01	1	Bracket, Mounting – Voltage Regulator		815-0590	3	Screw, Machine – Hex Head (#10-32 x 1/2") (Air Cleaner Adapter to Carburetor)
	321-0323-02	1	Bracket, Fuse Holder		98-6566	1	Label (Fuse)
	338-2815	1	Harness, Wiring – Power Supply for Carburetor Choke (Includes Parts Marked *)		145-0667	1	Rod, Air Inlet
					98-6587-01	1	Label (Kit Number)
	307-1886	2	*Relay (K5, K6)		150-2421	1	Spring, Compression (Linkage)
	321-0322	1	*Holder, Fuse		150-2470	2	Washer, Friction (Linkage)
	321-0321-06	1	*Fuse (10 Amp)		518-0606	1	Clip (Linkage)
	821-0004	2	Screw, Locking – Hex Washer Head (#10-32 x 5/16") (Relay Mounting)		G151	1	Sheet, Instruction
	332-1993	1	Terminal (1/4") (Ignition Coil Lead)	* – Parts Included in 338-2815 Wiring Harness			

## Labels, Paint, Thread Sealant, Gasket Kits, Carburetor Kits, and Accessory Kits

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	98-5313	1	Label, Warning (Battery Cables)		110-3709	3	+Gasket, Valve Box
	98-5142	1	Label, Warning (Fire Hazard)		110-3181	2	+Gasket, Cylinder Head
	98-5755	1	Label, Warning (Hazardous Voltage)		120-0161	1	+Gasket Kit, Oil Pump
			Label, Model Ident		122-0771	1	+Gasket, Oil Filter Adapter
			4.5 BGD		154-2495	2	+Gasket, Intake Manifold
	98-5895	1	Spec A-H		154-2746	2	+Gasket, Exhaust Manifold
	98-6936	1	Begin Spec J		160-1368	1	+Gasket, Breaker Box
			4.0 BGD		509-0008	1	+Seal, Oil (Gov. Shaft)
	98-5891	1	Spec A-H		509-0040	1	+Seal, Oil (Gearcase)
	98-6962	1	Begin Spec J		509-0041	1	+Seal, Oil (Bearing Plate)
	98-5713	1	Label, Warning (Extended Shaft)		509-0289	2	+Seal, Valve Stem
	98-5335	1	Label, Preheat		509-0142	1	+O-Ring, Oil Fill Cap
	98-5913	1	Label, PC Board 3056-01		102-1387	1	+Gasket, Oil Base
	98-5935	1	Label, Model Identification (3.5 BGD)		141-0950	1	+Gasket, Carburetor Mounting (Gasoline)
	98-5777-01	1	Label, Warning (Improper Operation)		141-0281	1	+Gasket, Carburetor Mounting (LP)
	98-6074-02	1	Label, Warning (Operation, Maintenance and Service)		146-0663	1	Kit, Emissions Auto-Choke Carburetor (Includes Parts Marked ~)
	98-5335	1	Label, Air Cleaner (BGD)		146-0630	1	~ Carburetor, Emissions and Auto Choke
	98-5815	1	Service Instructions		141-0958	1	~ Gasket, Carburetor
			Label, Oil Fill - Begin		140-2308	1	~ Gasket, Air Horn
	98-6618-01	1	Spec F		542-0336	1	Kit, Enable Interface for Emergency Shutoff
	98-6872		Begin Spec J		542-0331	1	Kit, Exhaust Accessory (Spec B-F) (Includes Parts Marked <)
	98-6618-01	1	Label, Oil Capacity - Begin Spec F		G196	1	< Sheet, Instruction
	98-6566	1	Label, Fuse - Begin Spec F		166-0820	1	< Coil, Ignition
	98-6586-02	2	Label, Battery - Negative		166-0747	1	< Clamp, Ignition Coil
	518-0452	1	Sealant, Thread (50cc Bottle)		800-0730	2	< Screw, Hex Head Cap (5/16-18 x 1")
	518-0602	1	Loctite, Bottle (250cc)		332-2112	1	< Insulator, Terminal
	525-0304	1	Paint, (Onan Green)		526-0122	4	< Washer, Flat (5/16)
	525-0673-01	1	Paint, (Premium Green)		862-0015	2	< Nut, Hex (5/16-18)
	525-0673-02	1	Paint, (Premium Green)		800-0031	2	< Screw, Hex Head Cap (5/16-18 x 1-1/2")
	525-0305	1	Paint, Enamel Touch-Up Green (Non-Metallic) 13 oz. Pressurized Can		155-2816-02	1	< Strap, Muffler Mounting
	168-0189	1	Kit, Gasket - Carbon Removal (Includes Parts Marked *)		815-0836	2	< Screw, Hex Washer Head Thread Forming (5/16-18 x 1-1/2")
	110-3709	3	*Gasket, Valve Box		155-2814-02	1	< Bar, Muffler Support
	110-3181	2	*Gasket, Cyl Head		154-2542	1	< Gasket, Exhaust
	154-2746	2	*Gasket, Exhaust Manifold		155-1015	1	< Clamp, Muffler
	154-2495	2	*Gasket, Intake Manifold		155-2174	1	< Hanger, Exhaust
	509-0289	2	*Seal, Valve Stem		154-2540	1	< Tube, Exhaust
	154-2542	1	*Gasket, Exhaust Manifold		155-1239	1	< Clamp, Muffler
	168-0187	1	Kit, Gasket - Engine Complete (Includes Parts Marked +)		155-1485	1	< Muffler, Spark Arrester
	101-0809	1	+Gasket, Rear Bearing Plate				
	102-0743	1	+Gasket, Oil Drain				
	103-0810	1	+Gasket, Gearcase				

## Labels, Paint, Thread Sealant, Gasket Kits, Carburetor Kits, and Accessory Kits

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	542-0496	1	Kit, Exhaust Accessory (Spec A-D) (Includes Parts Marked &)		155-2814-02	1	=Bar, Muffler Support
	G196	1	& Sheet, Instruction		154-2542	1	=Gasket, Exhaust
	166-0820	1	& Coil, Ignition		155-1015	1	=Clamp, Muffler
	166-0747	1	& Clamp, Ignition Coil		155-2174	1	=Hanger, Exhaust
	420-0581	1	& Bit, Drill (.290" Diameter)		154-2540	1	=Tube, Exhaust
	800-0730	2	& Screw, Hex Head Cap (5/16-18 x 1")		155-2852-02	1	=Clamp, Muffler
	332-2112	1	& Insulator, Terminal		155-2951	1	=Muffler, Spark Arrester
	526-0122	4	& Washer, Flat (5/16)		541-0465	1	Kit, Single Phase Full Output (Includes Parts Marked >)
	862-0015	2	& Nut, Hex (5/16-18)		315-0738	1	> Transformer
	800-0031	2	& Screw, Hex Head Cap (5/16-18 x 1-1/2")		315-0739-02	1	> Bracket, Transformer
	155-2816-02	1	& Strap, Muffler Mounting		870-1183	2	> Nut, Hex With ET (#6-32)
	815-0836	2	& Screw, Hex Washer Head Thread Forming (5/16-18 x 1-1/2")		320-1649-05	1	> Breaker, Magnetic Circuit
	155-2814-02	1	& Bar, Muffler Support		821-0003		> Screw, Lock Head Whiz Lock (#10-32 x 1")
	154-2542	1	& Gasket, Exhaust		870-0131	1	> Nut, Hex With ET (#10-32)
	155-1015	1	& Clamp, Muffler		C-466	1	> Sheet, Instruction
	155-2174	1	& Hanger, Exhaust		542-0336	1	Kit, Enable Relay Start (Begin Spec J) (Includes Parts Marked ^)
	154-2540	1	& Tube, Exhaust		338-3239	1	^ Harness Assembly
	155-2852-02	1	& Clamp, Muffler		815-0181	1	^ Screw, Hex Head Thread Cutting With ET (#10-32 x 1/2")
	155-2951	1	& Muffler, Spark Arrester		C-100	1	^ Sheet, Instruction
	542-0494	1	Kit, Exhaust Accessory (Spec J and UP) (Includes Parts Marked =)				
	G196	1	= Sheet, Instruction				
	800-0730	2	= Screw, Hex Head Cap (5/16-18 x 1")				
	332-2112	1	= Insulator, Terminal				
	526-0122	4	= Washer, Flat (5/16)				
	862-0015	2	= Nut, Hex (5/16-18)				
	800-0031	2	= Screw, Hex Head Cap (5/16-18 x 1-1/2")				
	155-2816-02	1	= Strap, Muffler Mounting				
	815-0836	2	= Screw, Hex Washer Head Thread Forming (5/16-18 x 1-1/2")				

- \* - Parts Included in Carbon Removal Gasket Kit.
- + - Parts Included in Engine Gasket Kit.
- ~ - Parts Included in Emissions Auto-Choke Carburetor Kit.
- < - Parts Included in 542-0331 Exhaust Accessory Kit.
- & - Parts Included in 542-0496 Exhaust Accessory Kit.
- = - Parts Included in 542-0494 Exhaust Accessory Kit.
- > - Parts Included in Single Phase Full Output Kit.
- ^ - Parts Included in Enable Relay Start Kit.

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