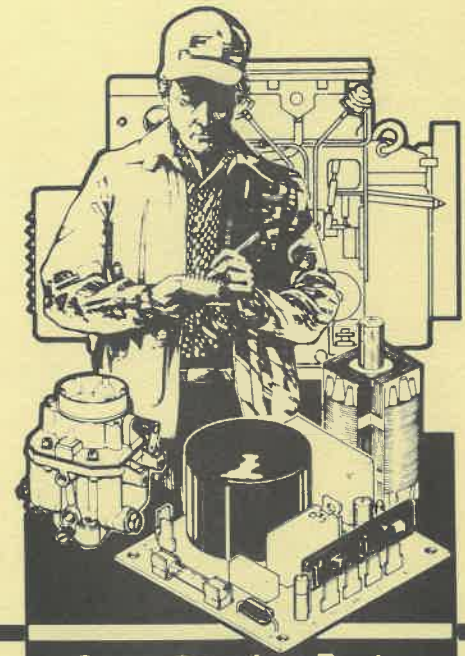


Onan

**Parts
Manual
BGE/BGEL**

**Emerald I
GenSet**



RV Electric Generating Set

Onan Service Parts

965-0231
9-88 (BGE Spec F) (BGEL Spec E)
Replaces 12-87 (BGE Spec F) (BGEL Spec E)
Printed in U.S.A.

General Information

For parts or service, contact the dealer from whom you purchased this equipment or refer to your Nearest Authorized Onan Parts and Service Center.

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

The diagram shows a rectangular nameplate with two circular mounting holes at the top. The word "Onan" is printed in a large, bold, stylized font. Below the logo is a wide rectangular box labeled "MODEL AND SPEC NO.". Below that is a narrower rectangular box labeled "SERIAL NO.". The bottom right corner of the nameplate is shown as being folded over.

M-1149

For handy reference, insert "YOUR" nameplate information in the spaces above.

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Introduction

This catalog applies to the standard BGE/BGEL Recreational Vehicle 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. Unless otherwise mentioned in the description, parts are interchangeable between models. Parts illustrations are typical. 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 (front) of the set.

Generator Set Data Table

MODEL AND SPECIFICATION	ELECTRICAL DATA					
	WATTS	VOLTS	HERTZ	WIRE	PHASE	FUEL
3.5 BGE-53CR/*	3500	120/240	50	3	1	Gasoline
3.5 BGEL-53CR/*	3500	120/240	50	3	1	LP
4.0 BGE-1R/*	4000	120	60	2	1	Gasoline
4.0 BGEL-1R/*	4000	120	60	2	1	LP

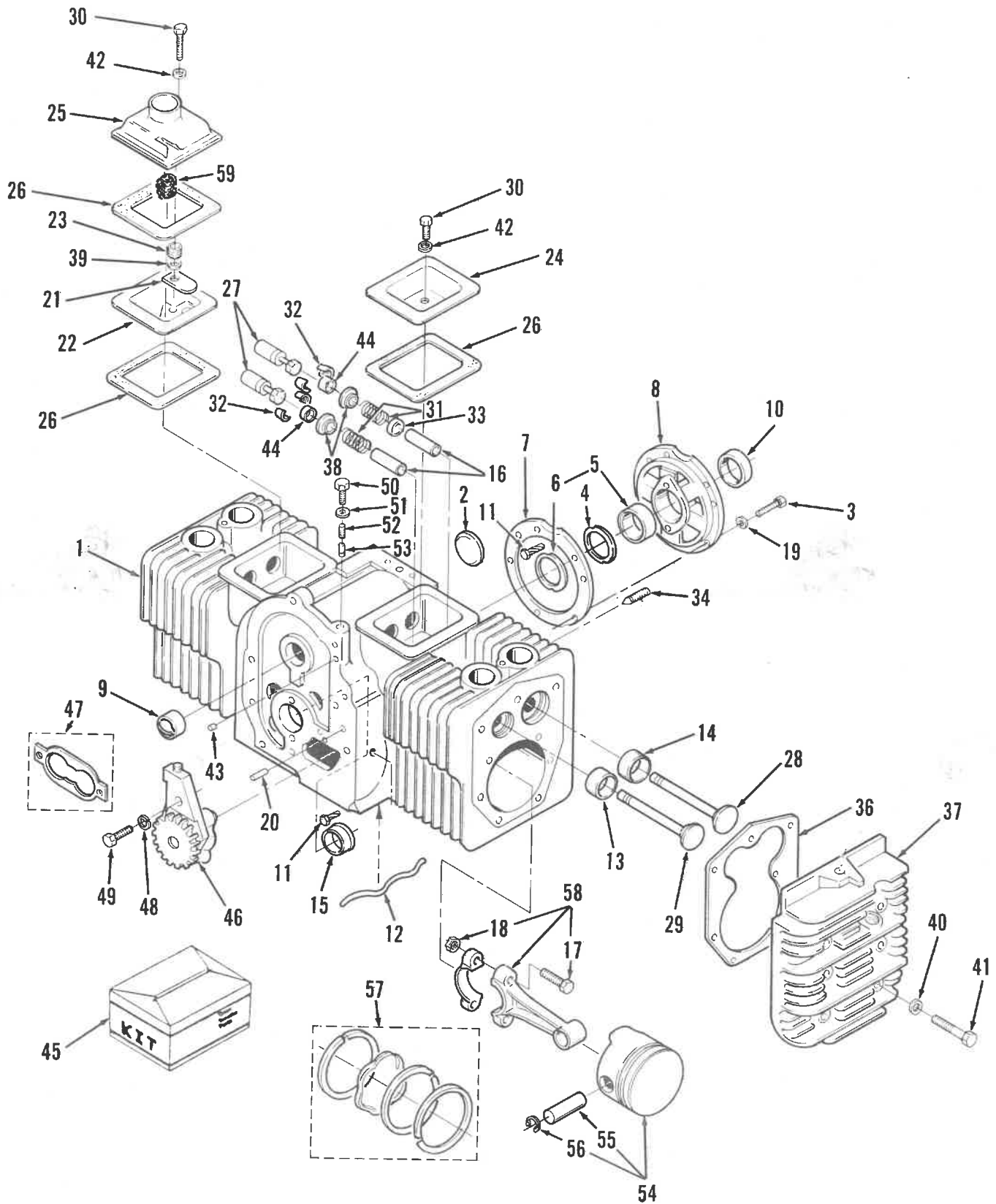
* - The diagonal line (/) in the model and specification number separates generator set characteristics from the specification number and letters. The specification number denotes customer requested options or deviations from a standard (1A, 1B, etc.) model. The specification letter advances (A, to B,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

NOTE:

Components Sold As An Assembly Will Be Assembled At The Factory.



Cylinder Block



Cylinder Block

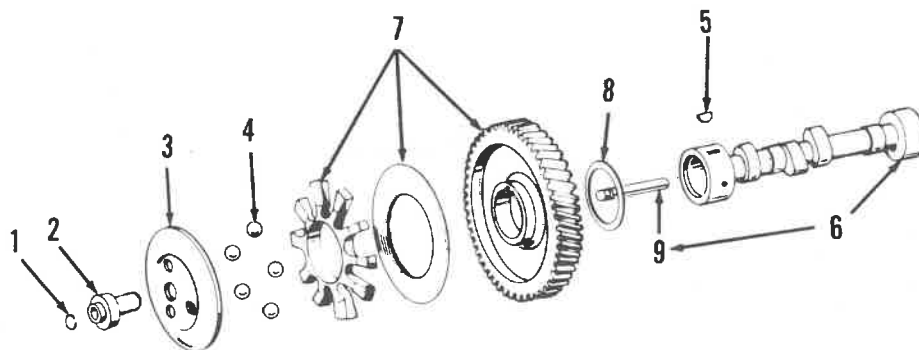
5620-0003
5620-0043
5620-0049
5620-0061
5620-0130
5620-0131

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Block, Cylinder (Includes Parts Marked *) (See Short Block Catalog #932-0109)	30	800-0010	2	Screw, Cap - Hex Head (1/4-20x1-3/4")
2	517-0048	1	*Plug, Welch - Camshaft Opening (1-5/8")	31	110-3485	4	Spring, Valve
3	800-0051	5	*Screw, Cap - Hex Head (3/8-16x1-1/4")	32	110-3511	8	Lock, Valve Spring
4	104-0776	AR	*Shim, Crankshaft End Play (.005")	33	509-0210	2	Seal, Valve - Intake
5			Bearing, Crankshaft - Rear (Includes Thrust Washer)	34	803-0071	2	Screw, Socket - Set (3/8-16x5/8")
	101-0450	1	* Standard	36	110-3181	2	Gasket, Cylinder Head - Graphoil
	101-0450-02	1	.002" Undersize	37			Head, Cylinder
	101-0450-10	1	.010" Undersize		110-3509	1	Right Side
	101-0450-20	1	.020" Undersize		110-3508	1	Left Side
	101-0450-30	1	.030" Undersize	38	110-3487	4	Washer, Valve Spring-Retg
6	104-0575	2	*Washer, Thrust (Special)	39	526-0018	1	Washer, Flat (1/4" Screw)
7	101-0415	1	*Gasket, Bearing Plate	40	526-0122	18	Washer, Flat (5/16" Screw)
8	101-0439	1	*Plate, Bearing - Rear	41	800-0571	18	Screw, Cap - Hex Head (Special) 2" Long
9	101-0405	2	*Bearing, Camshaft	42	526-0063	2	Washer, Flat - Copper (1/4" Screw)
10	509-0041	1	Seal, Oil - Crankshaft Rear	43	517-0067	1	Plug, Core Hole
11	516-0072	4	*Pin, Drive - Bearing Stop	44	110-3510	4	Cap, Valve
12	120-0735	1	*Tube, Oil - Cylinder Block Insert, Valve Seat - Exhaust	45			Kit, Gasket
13	110-1824	2	* Standard		168-0183	1	Carbon Removal/Valve Grind Engine, Complete
	110-1824-02	2	.002" Oversize		168-0182	1	Engine, Complete
	110-1824-05	2	.005" Oversize	46	120-0491	1	Pump, Oil (Components Not Sold Separately)
	110-1824-10	2	.010" Oversize	47	120-0161	1	Gasket, Kit - Oil Pump
	110-1824-25	2	.025" Oversize	48	850-0040	2	Washer, Lock - Spring (1/4")
14			Insert, Valve Seat - Intake	49	800-0007	2	Screw, Cap - Hex Head (1/4-20x1")
	110-0197	2	* Standard	50	801-0049	1	Screw, Cap - Hex Head (3/8-24x7/8")
	110-0197-02	2	.002" Oversize	51	526-0066	1	Washer, Flat - Copper (3/8" Screw)
	110-0197-05	2	.005" Oversize	52	120-0140	1	Spring, Bypass Valve
	110-0197-10	2	.010" Oversize	53	120-0398	1	Plunger, Bypass Valve
	110-0197-25	2	.025" Oversize	54			Piston (Includes Pin and Retaining Rings)
15			Bearing, Crankshaft - Front (Flanged)		112-0186	2	Standard
	101-0432	1	* Standard		112-0186-05	2	.005" Oversize
	101-0432-02	1	.002" Undersize		112-0186-10	2	.010" Oversize
	101-0432-10	1	.010" Undersize		112-0186-20	2	.020" Oversize
	101-0432-20	1	.020" Undersize		112-0186-30	2	.030" Oversize
	101-0432-30	1	.030" Undersize		112-0186-40	2	.040" Oversize
16			*Guide, Valve	55	112-0229	2	Pin, Piston
	110-3527	2	Exhaust	56	518-0311	4	Ring, Retaining
	110-3526	2	Intake	57			Ring Set, Piston
17	114-0240	4	Bolt, Connecting Rod (Special)		113-0189	2	Standard
18	870-0302	4	Nut, Self-Locking (5/16-24)		113-0189-05	2	.005" Oversize
19	850-0050	5	*Washer, Lock - Spring (3/8")		113-0189-10	2	.010" Oversize
20	516-0141	2	*Pin, Alignment - Gear Cover		113-0189-20	2	.020" Oversize
21	123-1175	1	Reed, Breather Valve		113-0189-30	2	.030" Oversize
22	123-1173	1	Baffle, Breather Valve		113-0189-40	2	.040" Oversize
23	123-1174	1	Spring, Breather Valve	58			Rod, Connecting
24	110-1879	1	Cover, Valve - RH				(Includes Bolt And Nut)
25	123-1649	1	Housing, Breather		114-0257	2	Standard
26	110-1921	3	Gasket, Valve Cover		114-0257-10	2	.010" Undersize
27			Tappet, Valve		114-0257-20	2	.020" Undersize
	115-0006	4	Standard		114-0257-30	2	.030" Undersize
	115-0006-02	4	.002" Oversize	59	123-1417	1	Filter, Breather Tube - Gasoline
	115-0006-05	4	.005" Oversize				
28	110-3479	2	Valve, Intake				
29			Valve, Exhaust				
	110-3480	2	Stellite				
	110-3515	2	Standard				

* - Parts Included in Cylinder Block.

Camshaft

5620-0096

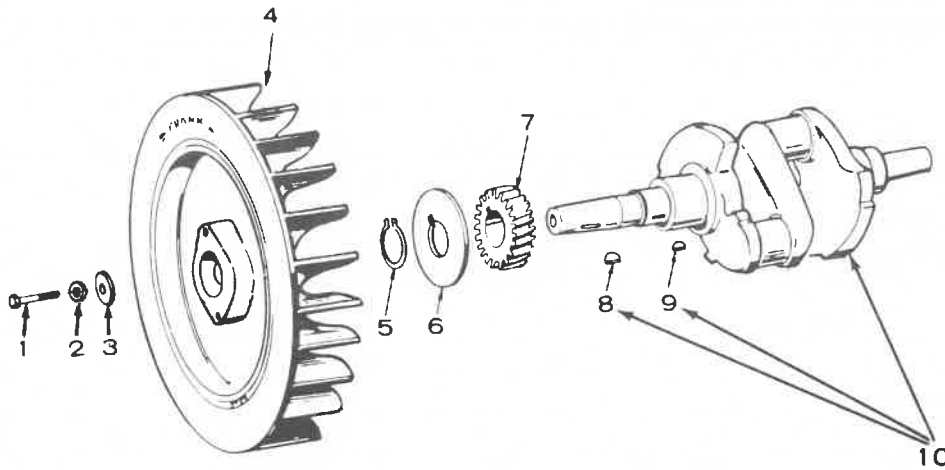


C-1084

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-0078	1	Ring, Retaining	7	105-0332	1	Gear, Camshaft (Includes Gear, Spacer And Plate)
2	150-1519	1	Hub, Governor Cup	8	105-0541	1	Washer, Thrust - Special
3	150-1520	1	Cup And Bushing, Governor	9	150-0075	1	Pin, Center - Camshaft
4	510-0015	10	Ball, Governor				
5	515-0001	1	Key, Woodruff				
6	105-0637	1	Camshaft (Includes Center Pin)				

Crankshaft And Flywheel

5620-0066
5620-0072

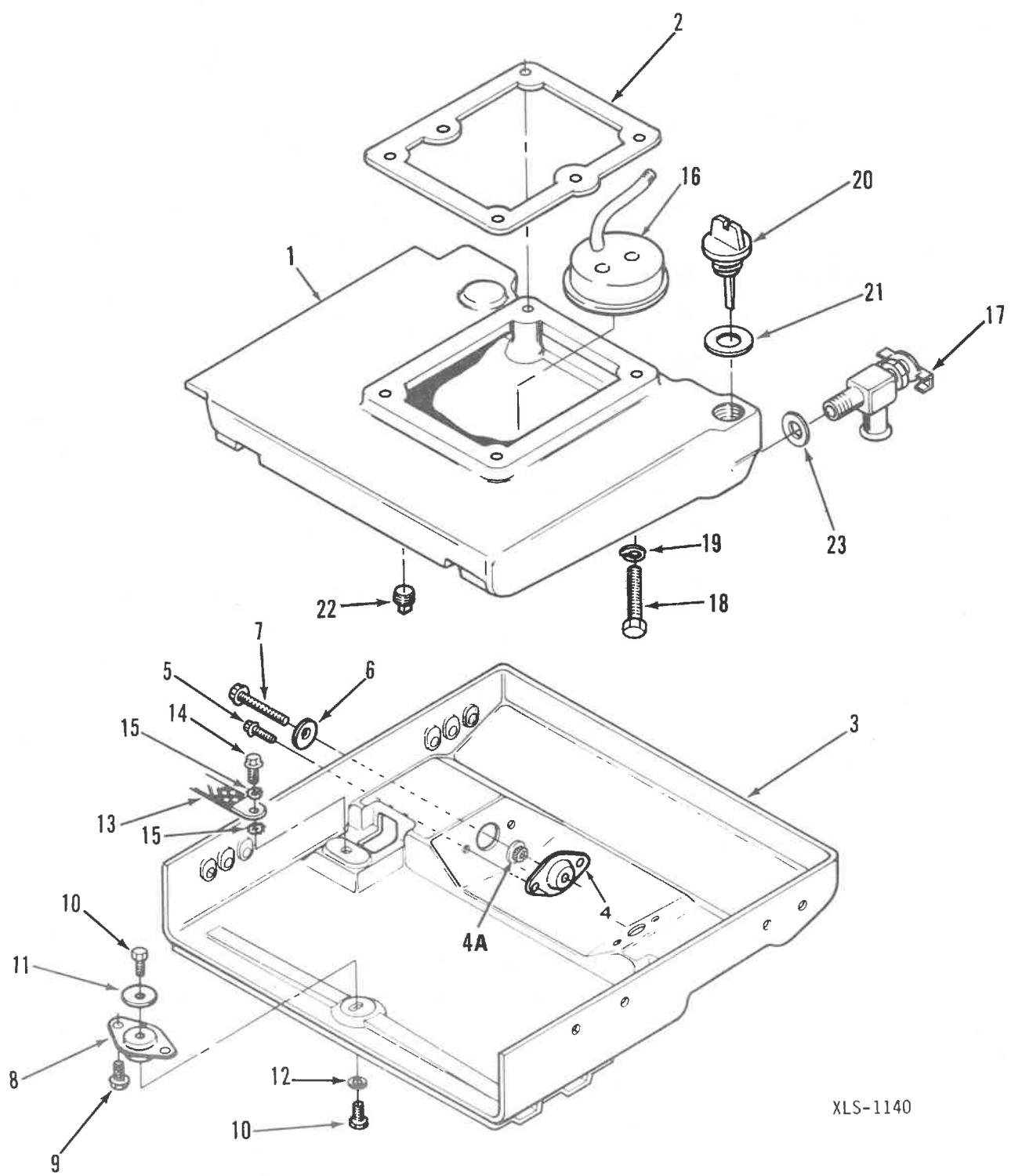


CT-1084

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	104-0170	1	Screw, Cap - Hex Head (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	515-0227	1	*Kit, Key - Blower Wheel
4	134-4342	1	Flywheel, (Blower)	9	515-0001	1	*Key, Crankshaft Gear
5	518-0014	1	Ring, Retaining	10	104-1583	1	Crankshaft (Includes Parts Marked *)

* - Parts Included In 104-1583 Crankshaft Kit.

Oil Base And Mounting Hardware



XLS-1140

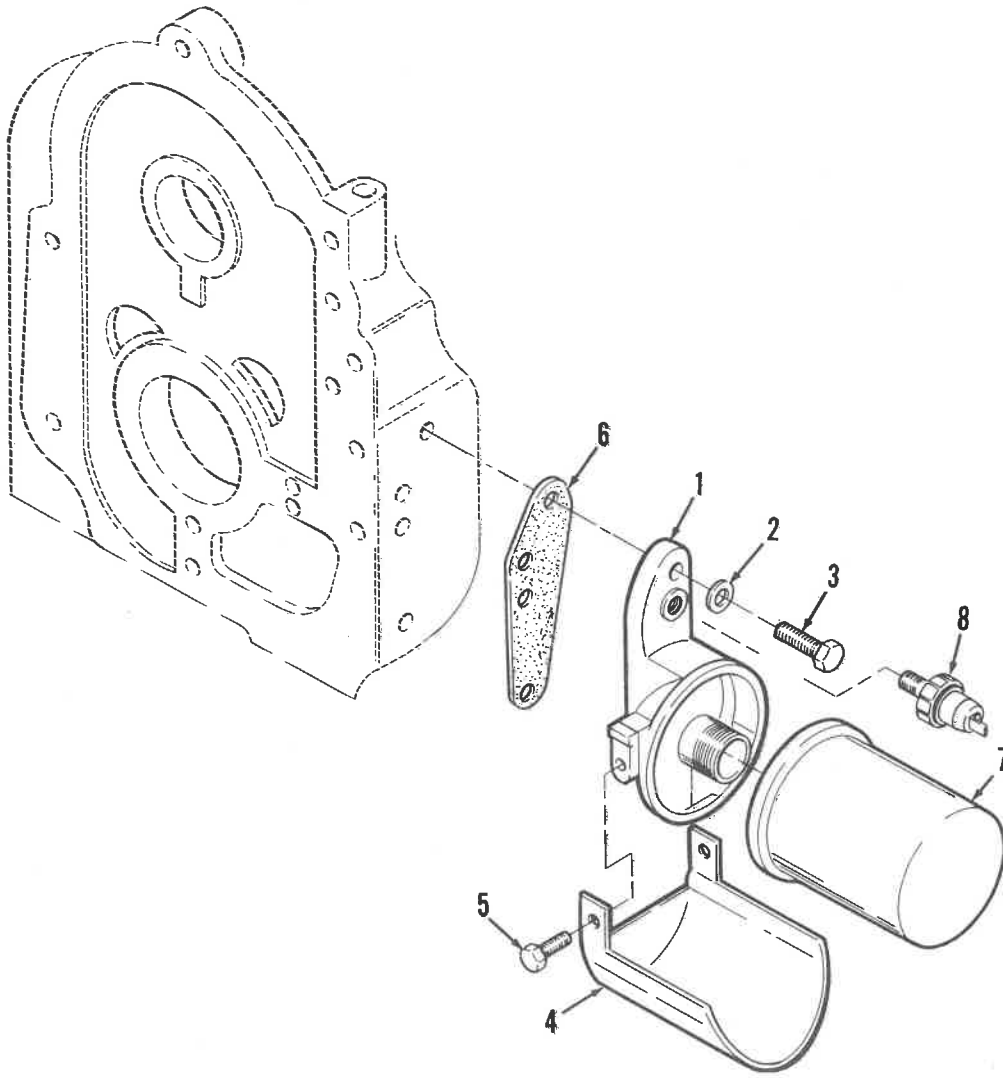
Oil Base And Mounting Hardware

5620-0063

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	102-1286	1	Base, Oil	11	526-0324	1	Washer, Flat (5/16" Screw)
2	102-1200	1	Gasket, Oil Base	12	526-0240	1	Washer, Flat (3/8" Screw)
3			Pan, Drip	13	337-2311	1	Strap, Ground (Mounts Scroll To Drip Pan)
	403-2557-02	1	Above Floor Models	14	821-0014	1	Screw, Hex Washer Head - Self Locking (5/16-18 x 1/2")
		1	Below Floor Models (See Below Floor Housing Pages)	15	856-0008	2	Washer, Lock EIT (5/16")
4	402-0597	2	Isolator, Vibration - Generator End	16	123-1616	1	Cup, Oil Pump Intake (Includes Pipe And Cup)
4A	402-0547	2	Snubber (Use with Isolator)	17	504-0150	1	Valve, Shut-Off - Oil Base Rear Drain, (Above Floor Model)
5	821-0010	4	Screw, Hex Washer Head - Self-Locking (1/4-20 x 1/2")	18	800-0058	4	Screw, Cap - Hex Head (3/8-16 x 3")
6	526-0325	2	Washer, Flat (3/8" Screw)	19	850-0050	4	Washer, Lock (3/8")
7	815-0657	2	Screw, Hex Head - Thread Form (3/8-16 x 2.75")	20	123-1625	1	Cap, Oil Fill
8	402-0549	1	Isolator, Vibration - Engine End	21	509-0096	1	O-Ring, Oil Fill Cap
9	821-0016	2	Screw, Hex Washer Head - Self Locking (5/16-18 x 3/4")	22	505-0266	1	Plug, Oil Drain (3/8" Pipe)
10	821-0031	2	Screw, Hex Washer Head - Self Locking (3/8-16 x 3/4")	23	102-0743	1	Gasket, Oil Drain Plug

Oil Filter

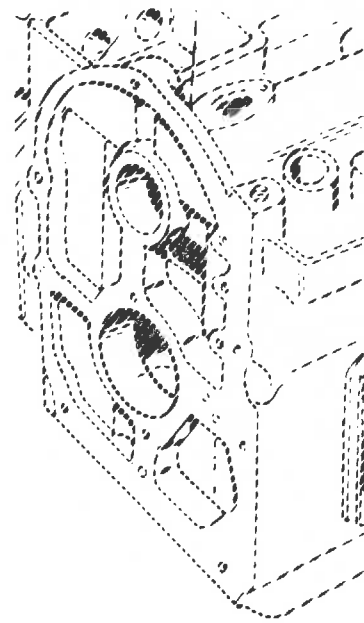
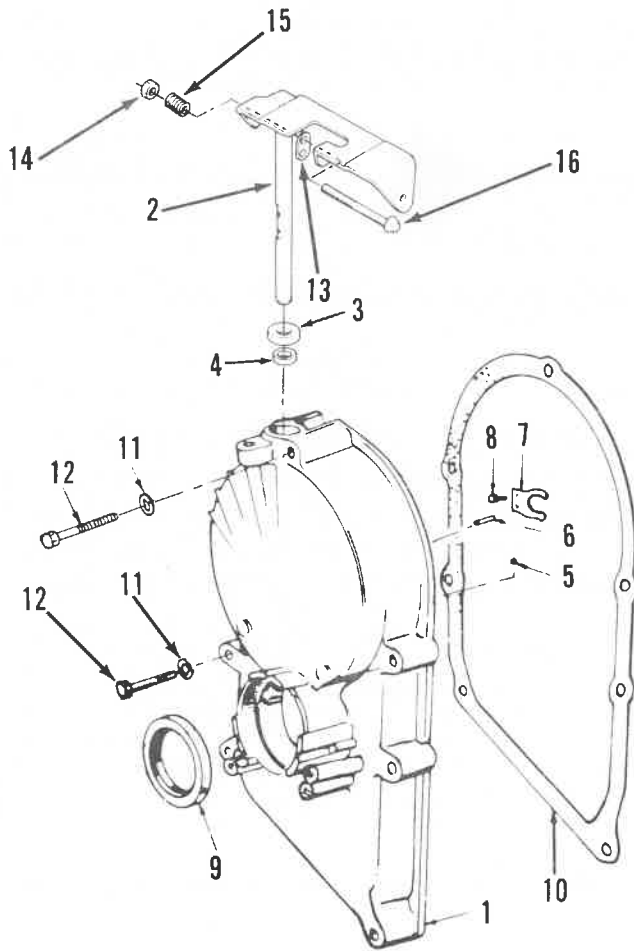
5620-0102



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	122-0320	1	Adapter, Oil Filter	4	122-0360	1	Drain, Oil Filter
2	526-0065	2	Washer, Flat - Copper (5/16" Screw)	5	815-0194	2	Screw, Cap - Hex Head W/ET (#10-32x3/8")
3	800-0028	2	Screw, Cap - Hex Head (5/16-18x1")	6	122-0375	1	Gasket, Oil Filter Adapter
				7	122-0645	1	Filter, Oil
				8	309-0322	1	Switch, Low Oil Pressure

Gearcase

5620-0046

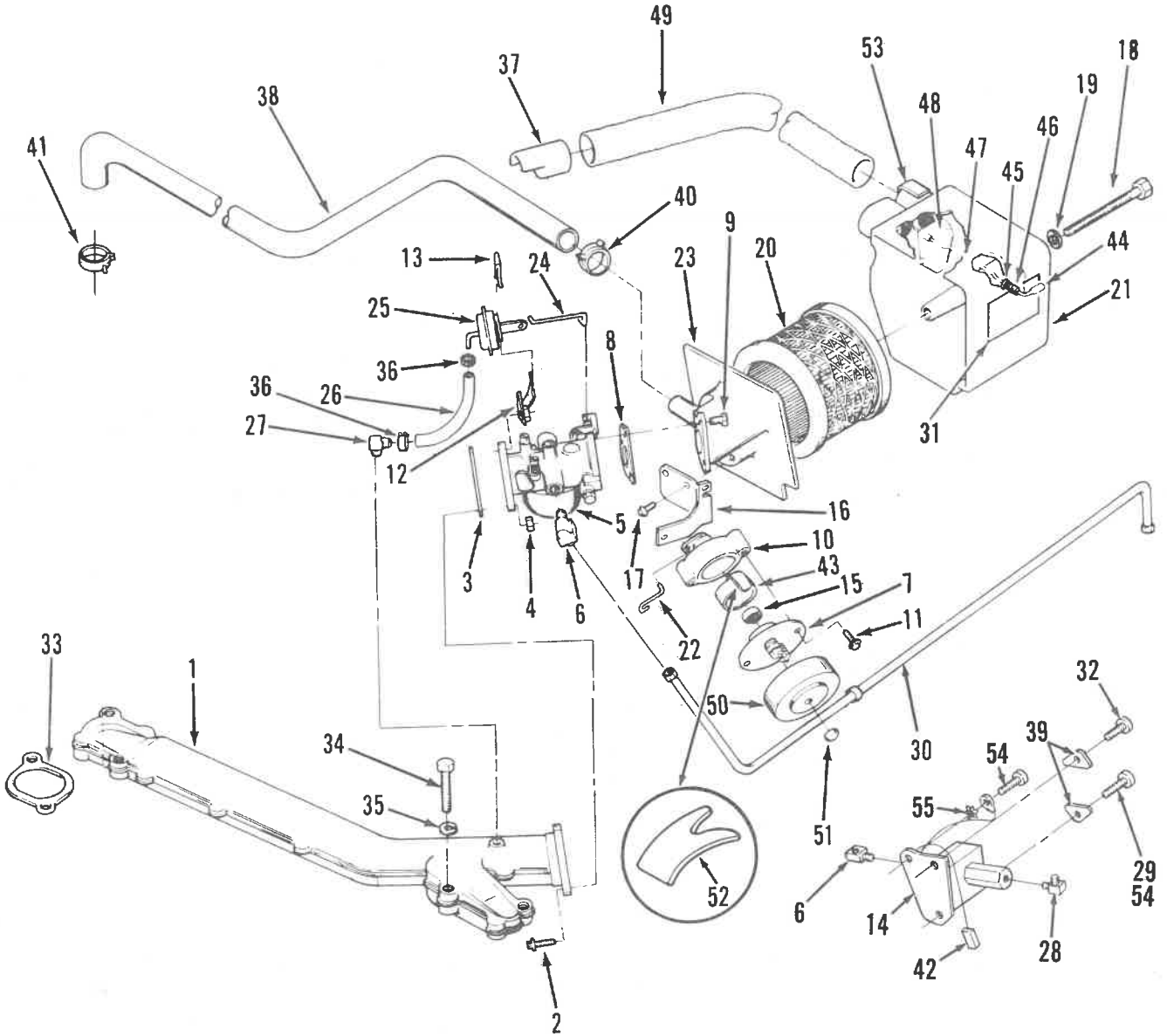


FS-1596

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	103-0772	1	Gearcase (Kit) (Includes Parts Marked*)	10	103-0408	1	Gasket, Gearcase Mounting
2	150-2002	1	*Arm And Shaft, Governor	11	526-0065	5	Washer, Flat - Copper (5/16" Screw)
3	509-0008	1	*Seal, Oil - Governor Shaft	12			Screw, Cap - Hex Head (Special)
4	510-0013	1	*Bearing, Needle		114-0022	4	1-3/4" Long
5	510-0014	1	*Ball, Bearing		800-0545	1	2-3/4" Long
6	516-0130	1	*Pin, Dowel - Governor Cup Stop	13	150-1998	1	*Link, Governor Spring
7	150-1187	1	*Yoke, Governor	14	870-0328	1	*Nut, Self-Lock (10-32")
8	815-0046	2	*Screw, Machine - Pan Head (8-32x3/8")	15	141-0710	1	*Spring
9	509-0040	1	*Seal, Oil - Crankshaft	16	820-1077	1	*Screw, Pan Head (10-32x2-1/2")

* - Parts Included In 103-0772 Gearcase.

Fuel System (Gasoline)

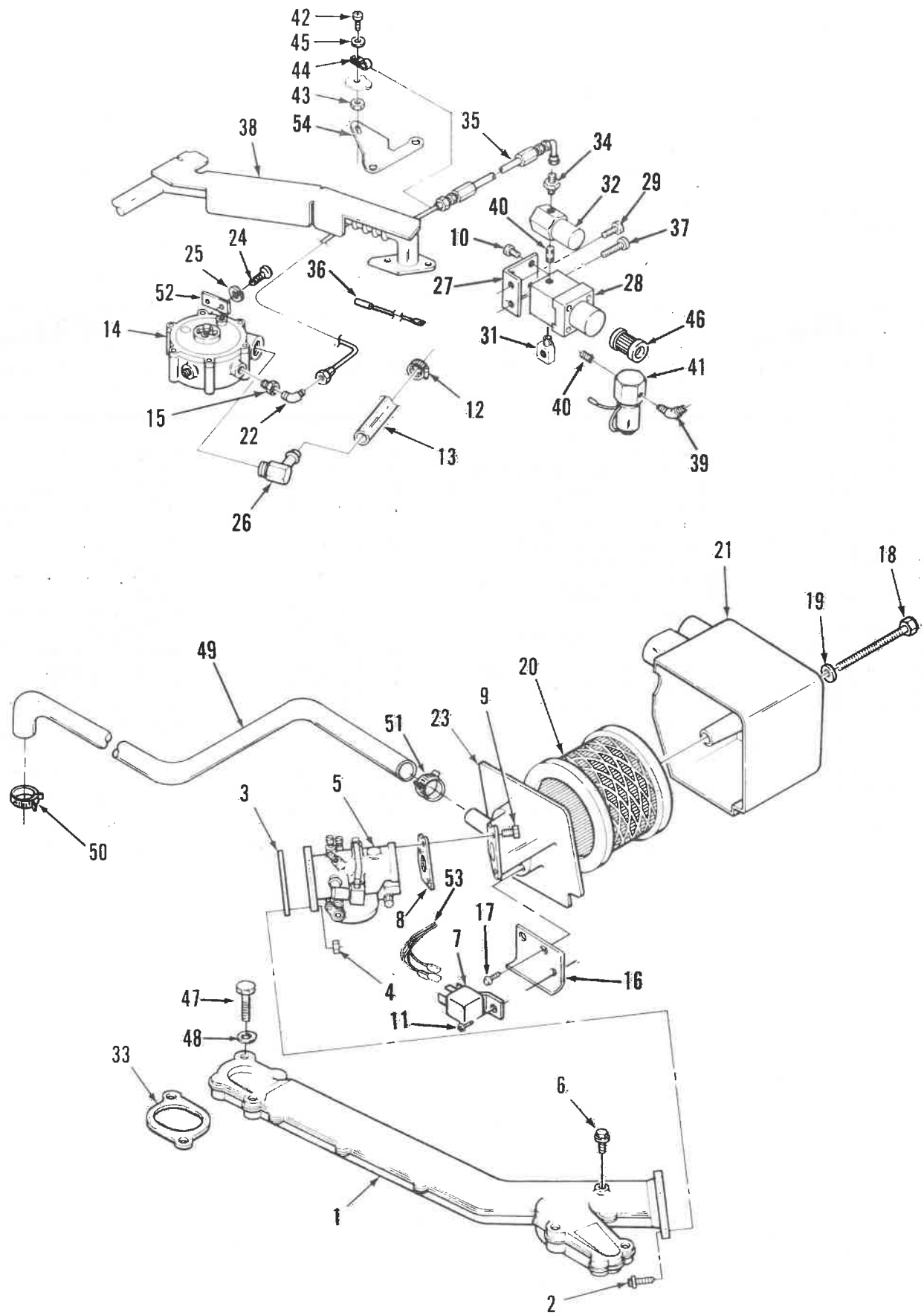


Fuel System (Gasoline)

5620-0061
5620-0062

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-2447	1	Manifold, Intake	28	502-0313	1	Elbow, 90°
2	815-0587	2	Screw, Hex Washer Head (Special)	29	815-0664	1	Screw, Torx - Thread Form (1/4-20x3/8") - 60 Hertz
3	141-0950	1	Gasket, Carburetor Mounting	30	149-2080	1	Line, Fuel (Includes 2 Inverted Nuts)
4	862-0015	1	Nut, Hex (5/16-18)	31	98-5335	1	Label, Preheat
5	146-0455	1	Carburetor (Includes Mounting Gasket) (See Separate Page for Components)	32			Screw
6	502-0002	2	Elbow, Inverted Male		815-0692-01	1	Hex, Machine - 60 Hertz (1/4-20 x 1/2")
7	153-0555	1	Element And Cover, Choke		815-0692-02	1	Pan Head - 50 Hertz (1/4-20 x 1")
8	140-1087	1	Gasket, Air Horn	33	154-2495	2	Gasket, Intake Manifold
9	815-0590	3	Screw, Hex Head (Special)	34	800-0033	4	Screw, Cap - Hex Head (5/16-18x2")
10	153-0556	1	Housing, Choke (Includes Choke Shaft)	35	850-0045	4	Washer, Lock - Spring (5/16")
	518-0387	1	Ring, Retainer- Choke Housing (Not Shown)	36	503-1345	2	Clamp, Hose (.375 to .450" Dia.)
11	815-0592	2	Screw, Hex Washer Head (Special)	37	140-1919	1	Adapter, Preheater
12	153-0561	1	Bracket, Diaphragm Mounting	38	123-1615	1	Tube, Breather
13	518-0450	1	Clip, U - Diaphragm Mounting Bracket	39	149-2226	2	Washer, Fuel Pump
14	149-2163	1	Pump, Fuel - Electric (Includes Mounting Bracket)	40	503-1133	1	Clamp, Hose - Breather Tube (Fits Hose O.D. .875")
15	153-0554	1	Bi-Metal, Choke	41	503-0183	1	Clamp, Hose - Breather Tube (9/16 to 1-1/16")
16	153-0557	1	Bracket, Housing Mounting	42	338-2285	1	Harness, Fuel Pump (Includes Rectifier)
17	815-0591	2	Screw, Hex Washer Head (Special)	43	153-0578	1	Tube, Choke Housing
18	800-0017	1	Screw, Cap - Hex Head (1/4-20x3-1/2")	44	517-0223	1	Cap, Vinyl
19	526-0018	1	Washer, Flat (1/4" Screw)	45	526-0002	1	Washer, Flat (#6 Screw)
20	140-1891	1	Element, Air Cleaner	46	120-0140	1	Spring, By-pass
21	140-1894	1	Housing, Air Cleaner	47	145-0562	1	Rod, Air Inlet
22	153-0558	1	Linkage, Choke	48	145-0561	1	Cover, Air Inlet
23	140-1889	1	Adapter, Air Cleaner	49	503-1351	1	Hose, Preheater
24	153-0577	1	Linkage, Choke - Pull-off	50	153-0579	1	Cover, Choke Housing
25	153-0576	1	Pull-off, Choke	51	870-0421	1	Nut, Cap (6-32)
26	503-1252	1	Hose, Vacuum (3/16" ID x 3" Long)	52	518-0466	1	Clip, Choke Housing
27	502-0871	1	Fitting, Vacuum - Intake 90° Manifold To Vacuum Hose	53	518-0459	1	Clip, Preheater Hose
				54	815-0290	2	Screw, Torx - Thread Form (1/4-20 x .62)
				55	853-0013	1	Washer, ET (1/4") 50 Hertz

Fuel System (LP)



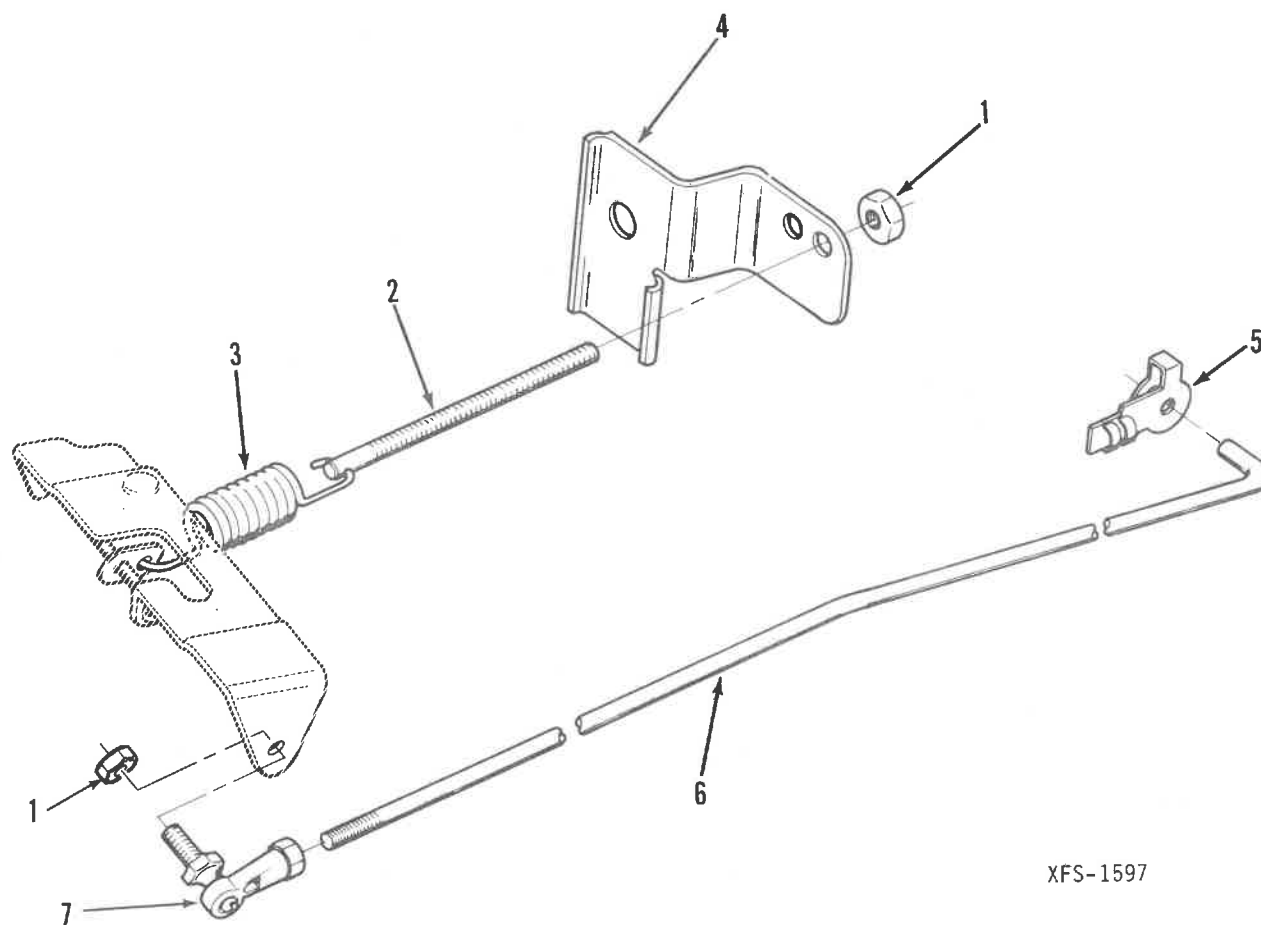
Fuel System (LP)

5620-0126
5620-0127
5620-0244

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-2447	1	Manifold, Intake	32	307-2478	1	Solenoid, Fuel Lock (Front Outlet - Exhaust Manifold) - LP Liquid
2	815-0587	2	Screw, Hex Washer Head (Special)	33	154-1446	2	Gasket, Intake Manifold
3	141-0950	1	Gasket, Carburetor Mounting	34	502-0928-01	1	Adapter, Reducer - Front Outlet - Exhaust Manifold - LP Liquid
4	862-0015	2	Nut, Hex (5/16-18)	35	501-0525	1	Line, Fuel
5	141-0932	1	Carburetor (See Separate Page For Components)	36	336-9679	1	Lead, Filter Mounting Bracket
6	505-0274	1	Plug, Pipe - Hex (1/8")	37	815-0664	1	Screw, Thread Form (Special)
7	307-1886	1	Relay, Ignition	38		1	Manifold, Exhaust (See Exhaust System Pages)
8	140-1087	1	Gasket, Air Horn	39	502-0965-01	1	Elbow, Reducing - 45° (Bottom Outlet, Exhaust Manifold) - LP Gas
9	815-0590	3	Screw, Cap - Hex Head (Special)	40	502-0929-01	1	Nipple, Close (Bottom Outlet, Exhaust Manifold)
10	815-0261	2	Screw, Hex Washer Head (1/4-20 x 1/2")	41	307-2501	1	Valve, Fuel Shut-off - LP Gas (Bottom Outlet, Exhaust Manifold) - LP Gas
11	821-0005	1	Screw, Hex Washer Head (#10-32x1/2")	42	815-0176	1	Screw, Hex Head - Machine (8-32x1/2")
12	503-0183	2	Clamp, Hose (9/16 to 1-1/16")	43	870-0221	1	Nut, Hex (8-32)
13	503-1365	1	Hose, Fuel (7-1/2" Long)	44	503-1190	1	Clamp, Hose (Fits .250" Dia. Tube)
14	148-0893	1	Regulator	45	526-0003	1	Washer, Flat (#8 Screw)
15	502-0927-01	1	Bushing, Reducer (3/8 x 1/4")	46	148-0898	1	Element, Fuel Filter
16	307-2559	1	Bracket, Housing Mounting	47	800-0033	4	Screw, Cap - Hex Head (5/16-18x2")
17	815-0591	2	Screw, Hex Washer Head (Special)	48	850-0045	4	Washer, Lock (5/16")
18	800-0017	1	Screw, Cap - Hex Head (1/4-20x3-1/2")	49	123-1615	1	Tube, Breather
19	526-0018	1	Washer, Flat (1/4" Screw)	50	503-0183	1	Clamp, Hose - Breather Tube (9/16 to 1-1/16")
20	140-1891	1	Element, Air Cleaner	51	503-1133	1	Clamp, Hose - Breather Tube (Fits Hose O.D. .875")
21	140-1894	1	Housing, Air Cleaner	52	148-0897	1	Washer, Regulator Mounting
22	502-0923	1	Elbow, Reducing - 90°	53	338-2317	1	Harness, Wiring - Ignition Relay (See Separate Page for Components)
23	140-1889	1	Adapter, Air Cleaner	54	149-2032	1	Bracket, Fuel Line - LP Liquid
24	815-0647	2	Screw, Hex Washer Head (1/4-20x5/8")				
25	850-0040	2	Washer, Lock (1/4")				
26	502-0935	1	Elbow, 90°				
27	148-0903	1	Bracket, Filter Mounting				
28	148-0890	1	Filter, LPG (Includes Element And O-Rings)				
29	815-0692-01	1	Screw, Pan Head (Special)				
	502-0932-01	1	Elbow, Street - 45° (Front Outlet, Exhaust Manifold) - Not Shown				
31			Elbow, Male - 90°				
	502-0933-01	1	Front Outlet, Exhaust Manifold - LP Liquid				
	502-0054	1	Bottom Outlet, Exhaust Manifold				

Governor

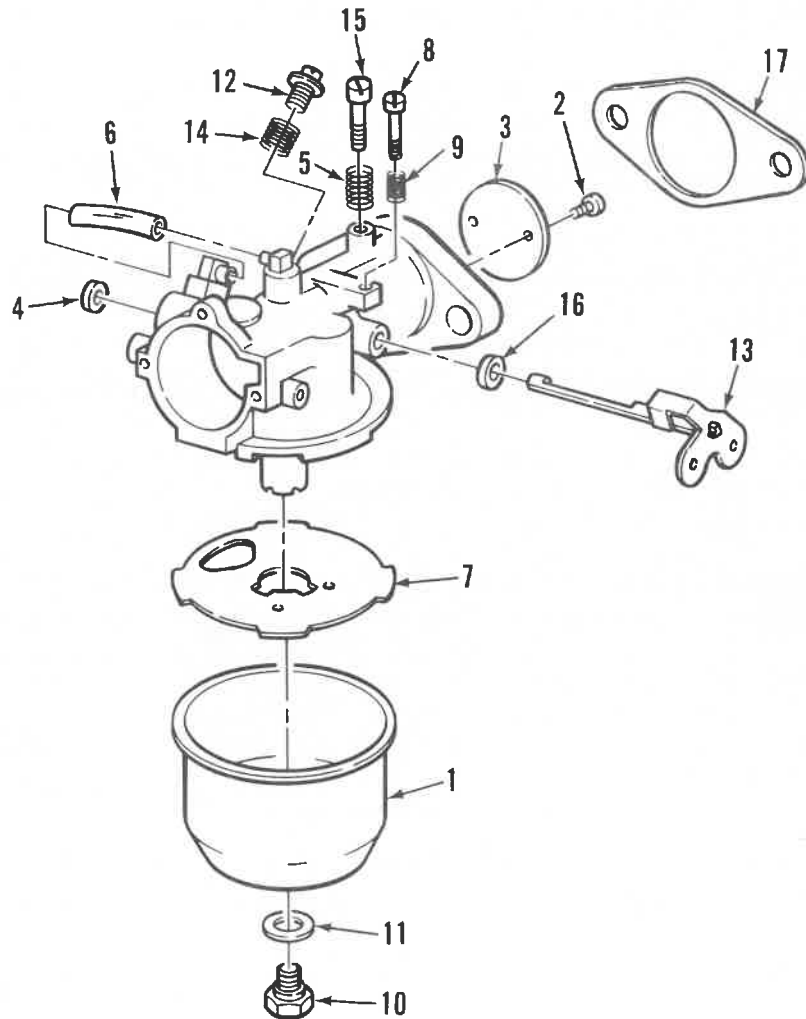
5620-0096
5620-0128



XFS-1597

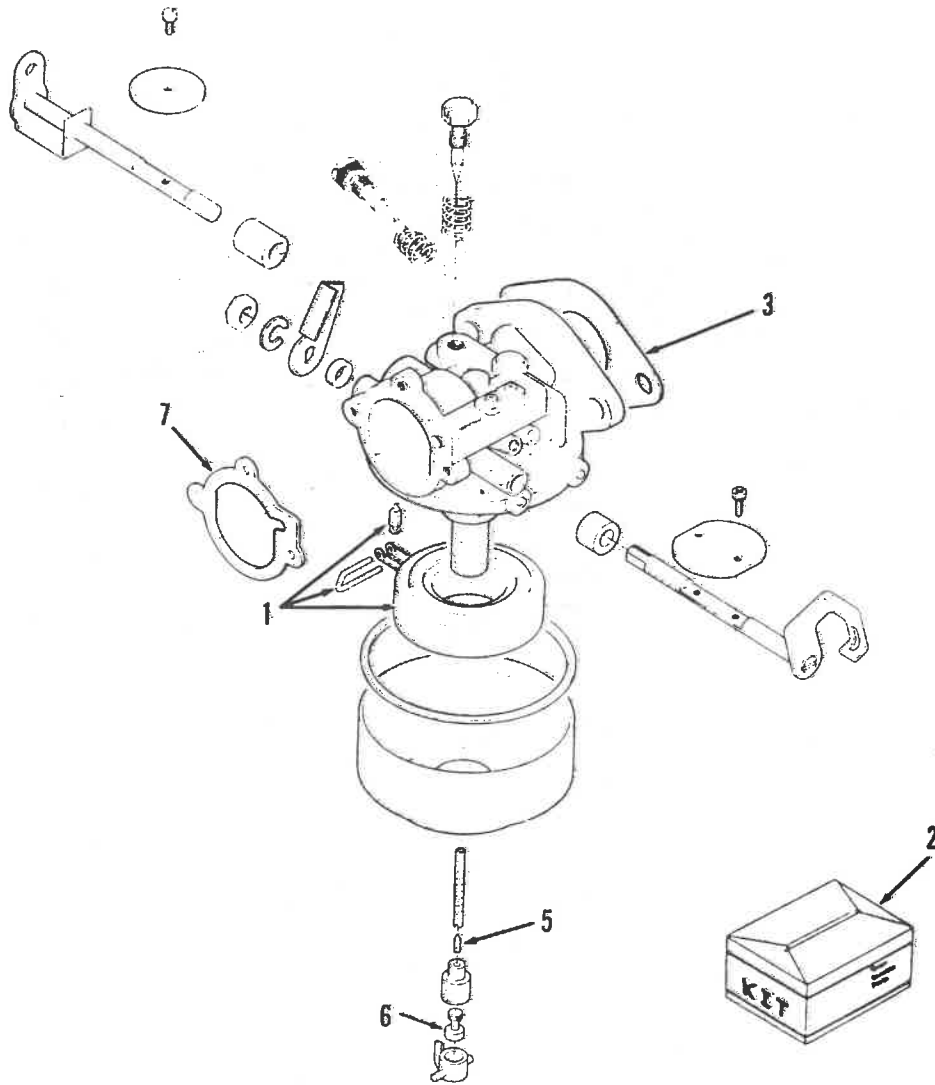
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0131	2	Nut, Hex - Self-Locking (10-32)	5	518-0006	1	Clip, Retaining
2	150-0096	1	Stud, Speed Adjustment	6	150-1957	1	Rod, Governor Arm To Carburetor
3	150-1612	1	Spring, Governor		150-2102	1	BGE
4	150-1958	1	Bracket, Governor	7	150-0939	1	BGEL
							Joint, Ball

Carburetor Components (LP)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	141-0932	1	Carburetor, Complete	9	141-0711	1	Spring, Throttle Stop
1	141-0708	1	Bowl, Fuel	10	141-0736	1	Plug, Bowl
2	141-0698	2	Screw, Round Head With Washer	11	141-0077	1	Washer, Bowl Plug
3	141-0919	1	Plate, Throttle	12	141-0934	1	Needle, Idle Adjust
4	141-0940	1	Seal, Dust	13	141-0936	1	Lever, Throttle Shaft
5	141-0935	1	Spring, Idle Needle	14	141-0939	1	Spring, Main Jet Screw
6	141-0938	1	Tube, Idle (Rubber)	15	141-0937	1	Needle, Idle Adjust
7	141-0701	1	Gasket, Bowl	16	141-0924	1	Seal, Rubber
8	141-0700	1	Screw, Throttle Stop	17	141-0281	1	Gasket, Carburetor Flange

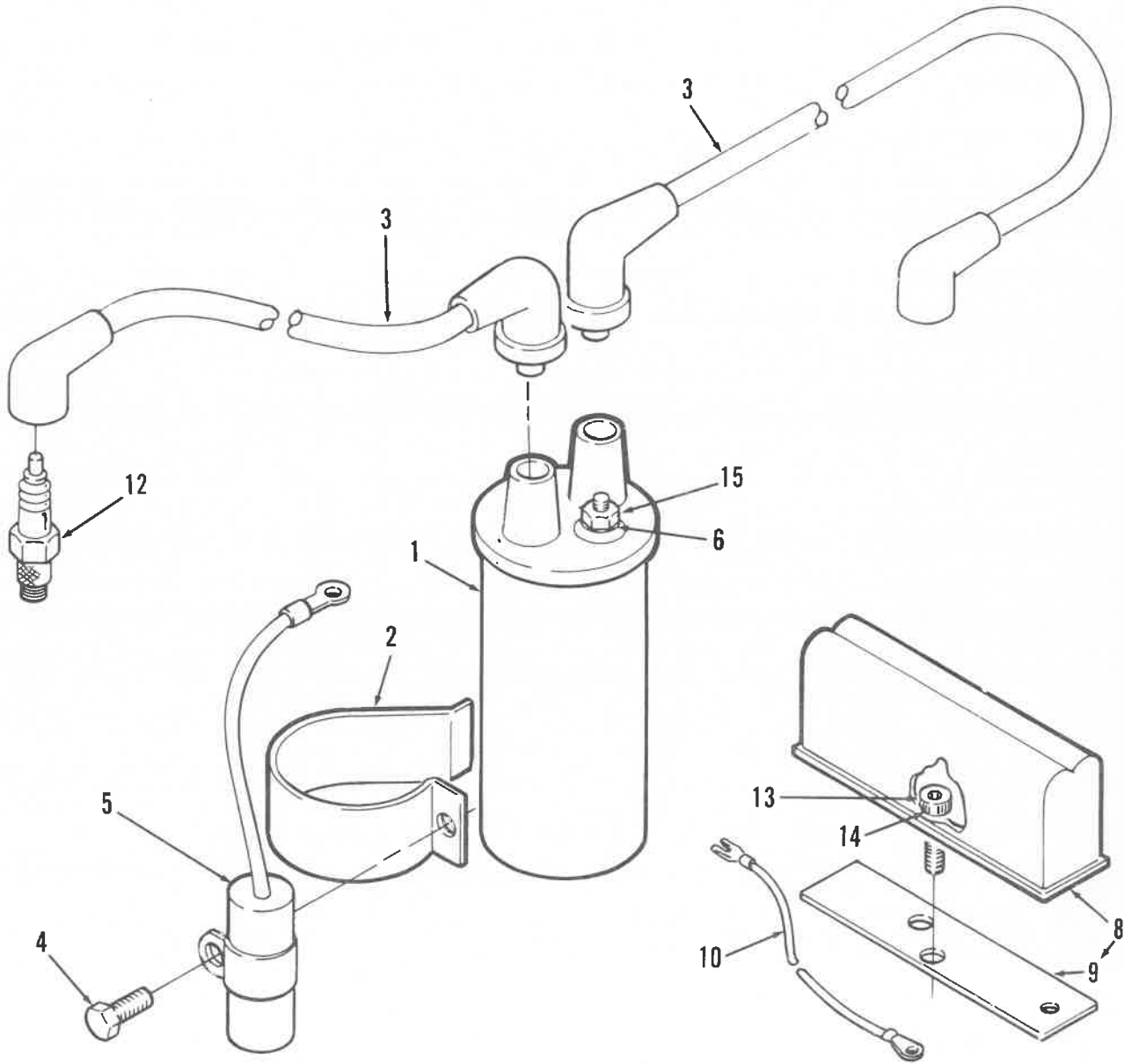
Carburetor Components Nikki



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	146-0455	1	Carburetor, Complete (Includes Mounting Gaskets)	3	141-0281	1	Gasket, Carburetor Mounting
1	146-0453	1	Kit, Float (Includes Float, Pin and Valve)	5	146-0449	1	Jet, Idle
2	146-0457	1	Kit, Repair (Includes Gasket Package, Float Valve, Idle Adjust Needle and Spring, Mounting Gaskets, Adjust Limit Caps, Throttle Stop Screw and Spring)	6	146-0450	1	Jet, Power
				7	140-1087	1	Gasket, Air Horn

Ignition System

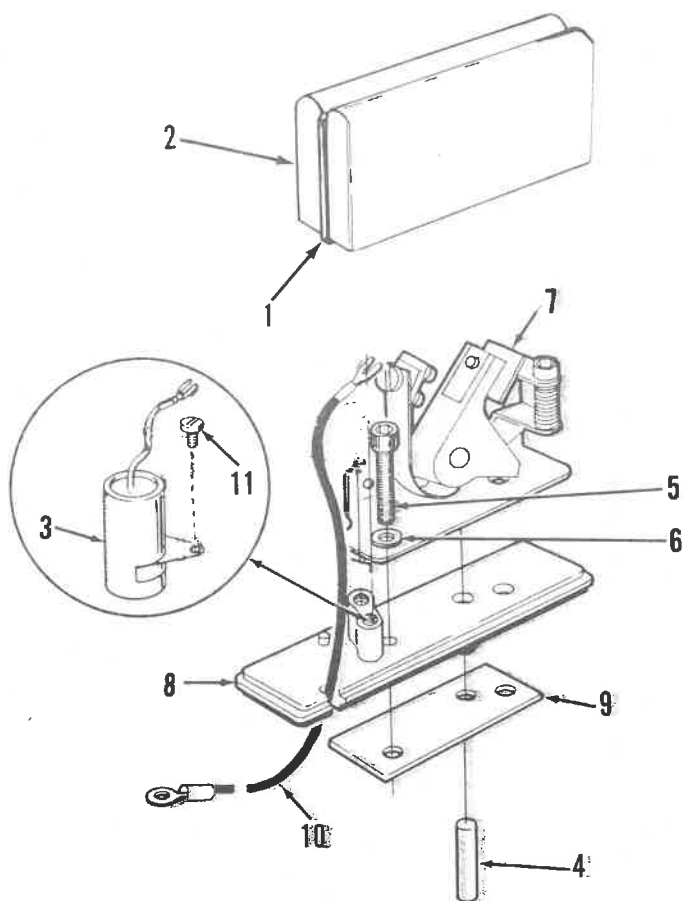
5620-0068



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	166-0772	1	Coil, Ignition (Includes Nuts And Washers)	8	160-1325	1	Box, Breaker (See Separate Page For Components)
2	166-0747	1	Clamp, Coil	9	160-1150	1	Gasket, Breaker Box Mounting (Includes Mounting Gasket)
3	167-1615-01	1	Cable, Spark Plug 9" Long	10	336-2378	1	Lead, Coil To Breaker Box Mounting
	167-1615-06	1	26" Long				
4	815-0261	1	Screw, Hex Washer Head - Thd. Cutting (1/4-20 x 1/2")	12	167-0263-01	2	Plug, Spark
5	312-0249	1	Condenser, Ignition	13	802-0034	2	Screw, Cap - Socket Head (1/4-20x3/4")
6	850-2005	2	Washer, Lock (8 MM)	14	850-0038	2	Washer, Lock - Spring (1/4")
				15	166-0554	2	Nut, Hex (8 MM)

Breaker Box

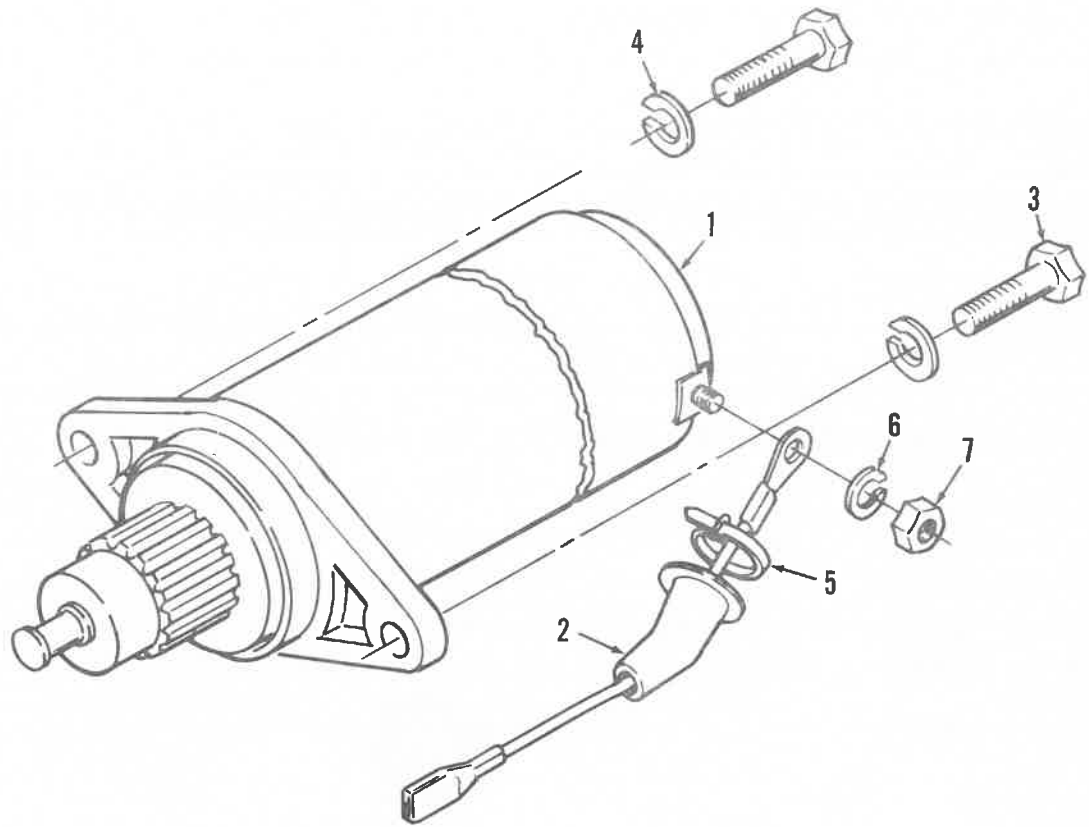
5620-0068



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	160-1325	1	Box, Breaker Complete (Includes Parts Marked *):	4	160-1151	1	Plunger, Breaker Points
1	160-1317	1	*Clip, Breaker Box Cover	5	802-0034	2	*Screw, Cap - Socket Head (1/4-20 x 3/4")
2	160-1316	1	*Cover, Breaker Box	6	850-0038	2	*Washer, Lock - Spring (1/4")
3	312-0246	1	Condenser, Ignition	7	160-1183	1	*Point, Breaker
	312-0256	1	Use: Prior to 9/87 - Mounts Inside Breaker Box	8	160-1314	1	*Base, Breaker Box
		1	Use: Beginning 9/87 - Mounts Remote, Attached to Generator Adapter	9	160-1150	1	*Gasket, Breaker Box
				10	336-2378	1	Lead, Breaker Box To Coil
				11	815-0358	1	Screw, Hex Head - Slotted Thread Form (#8-32 x 5/16") - Use: Prior to 9/87

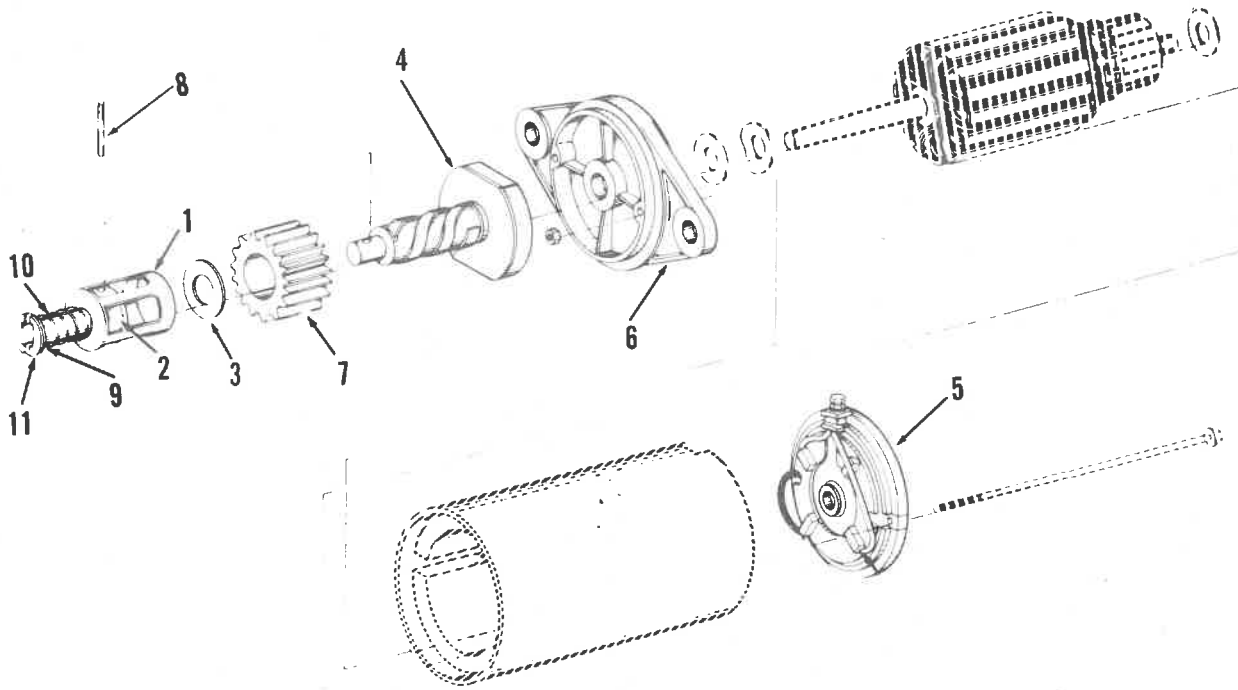
* - Parts Included In 160-1325 Breaker Box.

Starter



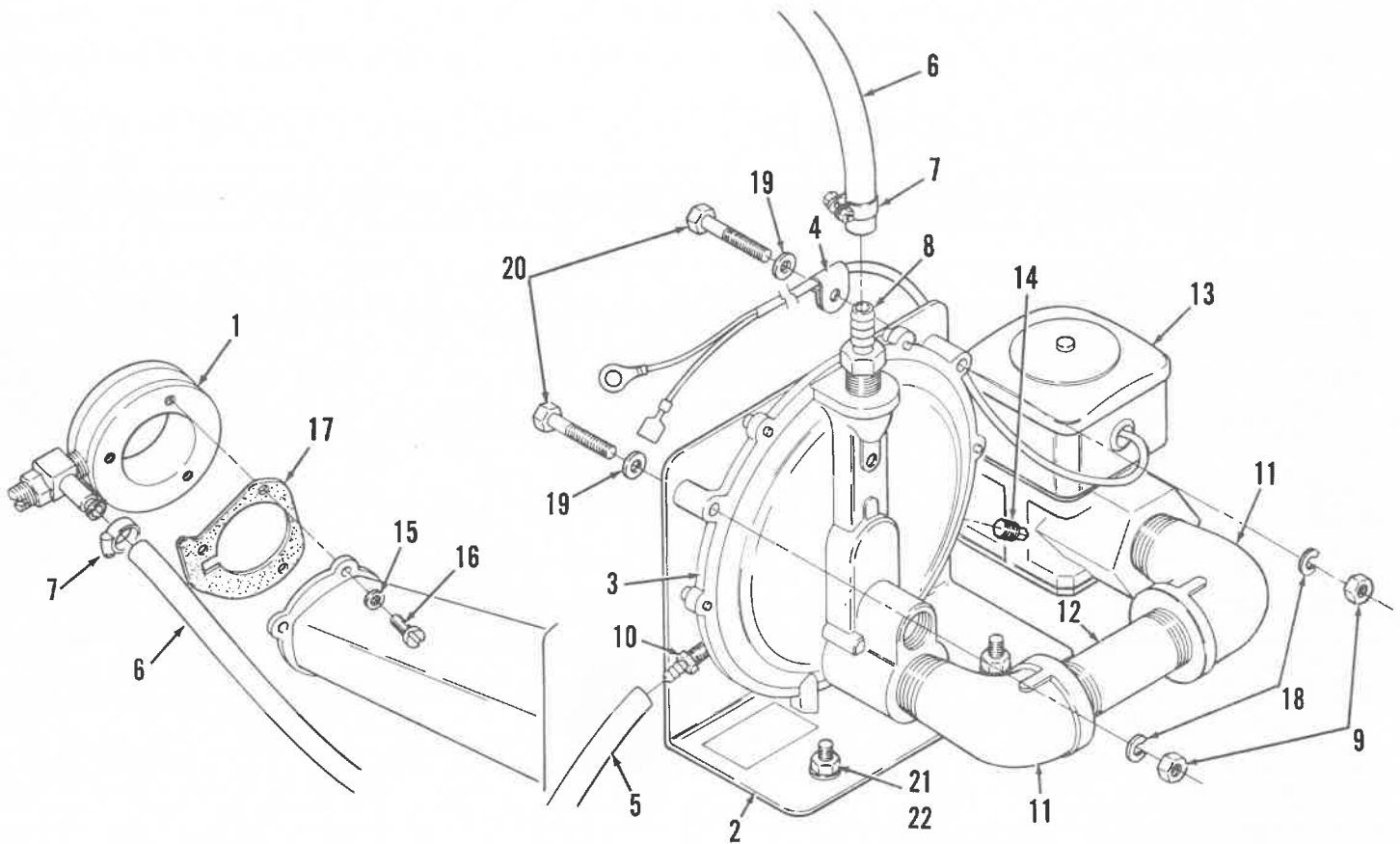
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191-1667	1	Starter, 12 Volt (Complete) (See Separate Page For Components)	4	850-0050	2	Washer, Lock (3/8")
2	226-3457	1	Lead, Starter (Includes Tube)	5	332-0942	1	Tie, Cable
3	800-0052	2	Screw, Hex Head - Cap (3/8-16 x 1-1/2")	6	850-0040	1	Washer, Lock (1/4")
				7	862-0001	1	Nut, Hex (1/4-20)

Starter Components



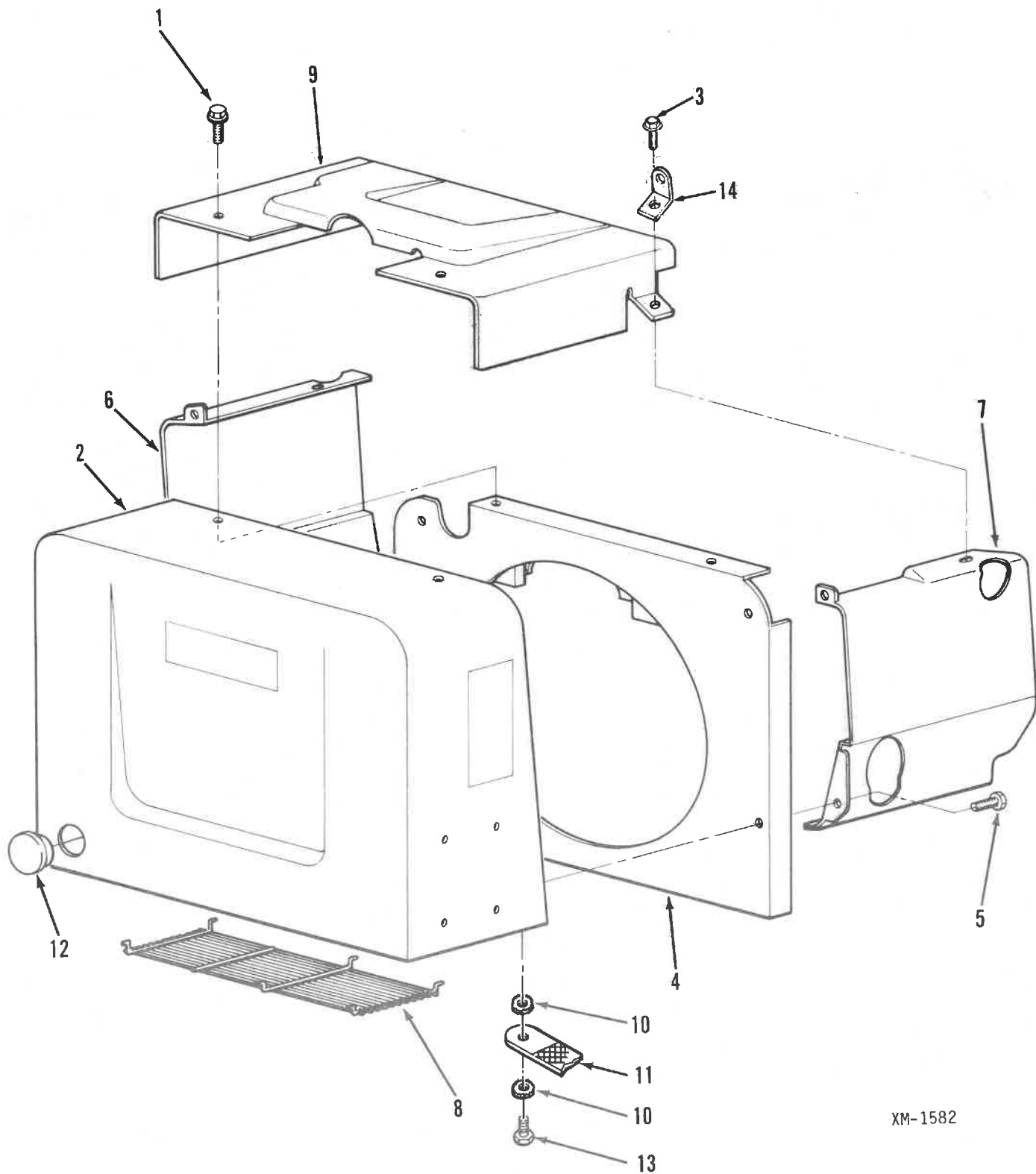
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	191-1667	1	Motor, Starter (Complete)	6	191-1776	1	Cap, Drive End
1	191-1817	1	Cover, Spring	7	191-1819	1	Gear, Starter
2	191-1818	1	Retainer, Clutch	8	191-1786	1	Pin, Roll
3	191-1785	1	Washer, Drive	9	191-1822	1	Washer, Pinion
4	191-1784	1	Clutch And Spline	10	191-1820	1	Spring, Pinion
5	191-1781	1	Cap, End (Includes Brushes)	11	191-1821	1	Retainer, Spring

LPG (Low Pressure) Fuel System Field Conversion



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-0912	1	Adapter, Carburetor	16	813-0117	3	Screw, Round Head - Machine (10-32 x 1-5/8")
2	148-0843	1	Bracket, Gas Regulator	17	140-1087	2	Gasket, Air Intake Adapter
3	148-0311	1	Regulator, Gas	18	850-0040	2	Washer, Lock (1/4")
4	518-0350	1	Clamp, Insulated (1/4" OD)	19	526-0018	2	Washer, Flat (1/4" Screw)
5	503-1016	1	Hose, Oil (Vent) 12" Long	20	800-0008	2	Screw, Cap - Hex Head (1/4-20 x 1-1/4")
6	503-1048	1	Hose, Fuel - 30" Long	21	800-0028	2	Screw, Cap - Hex Head (5/16-18 x 1")
7	503-0032	2	Clamp, Hose (#4)	22	870-0257	2	Nut, Hex - Self Lock (5/16-18)
8	502-0238	1	Connector, Hose				
9	862-0001	2	Nut, Hex (1/4-20)				
10	502-0395	1	Connector, Hose				
11	505-0051	2	Elbow, Street - 90°				
12	505-0332	1	Nipple, Pipe (3/4 x 3.00 Lg)				
13	307-1881	1	Solenoid and Terminal				
14	505-0057	1	Plug, Square Head				
15	854-0010	3	Washer, Lock - IT (#10)				

Air Housing



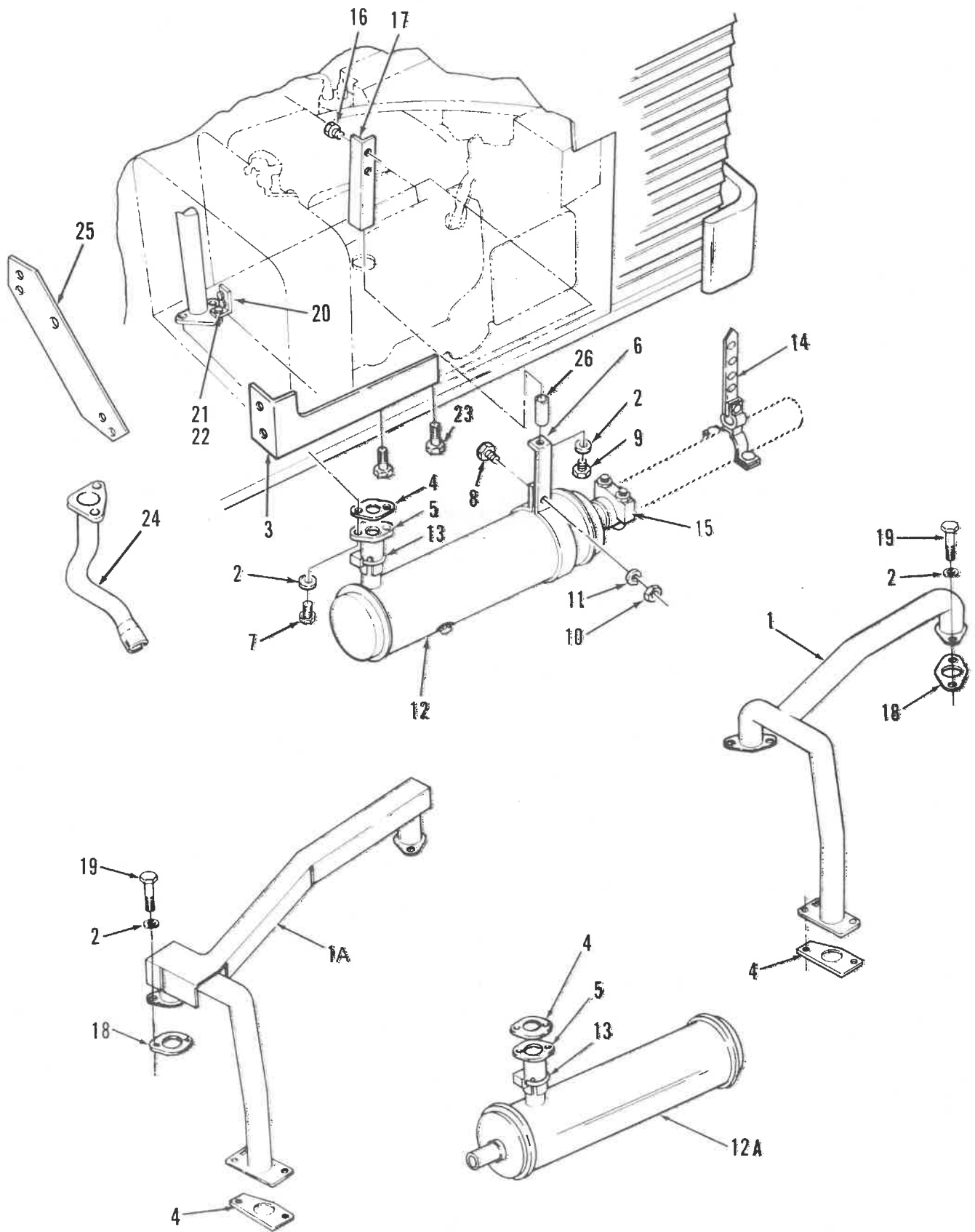
XM-1582

Air Housing

5620-0067
5620-0128

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0010	2	Screw, Hex Washer Head Self-locking (1/4-20x3/8")	6	134-4353	1	Housing, Cylinder Air - Left
2			Scroll (Includes Baffle)	7	134-4352	1	Housing, Cylinder Air - Right
	134-4345	1	Above Floor Model	8	134-4348	1	Guard, Scroll
	134-4463	1	Below Floor Model	9	155-2040	1	Shield, Noise (BGE Sets Only)
3			Screw, Hex Washer Head	10	856-0010	2	Washer, Lock (EIT - 3/8")
	821-0014	2	Self-Locking (5/16-18 x 1/2") - 50 Hertz	11	337-2311	1	Strap, Ground (Mounts Scroll To Drip Pan)
	821-0016	2	Tapping (5/16-18 x 3/4") - 60 Hertz	12	517-0129	1	Plug, Dot Button - Use With Above Floor Models - Scroll 134-4345)
4	134-4354	1	Backplate, Scroll	13	800-0048	1	Screw, Cap - Hex Head (3/8-16x3/4")
5	815-0261	4	Screw, Hex Head - Tapping Cylinder Air Housing (Right Hand) (1/4-20x1/2")	14	403-1523	2	Bracket, Lifting

Exhaust System - Above Floor Models

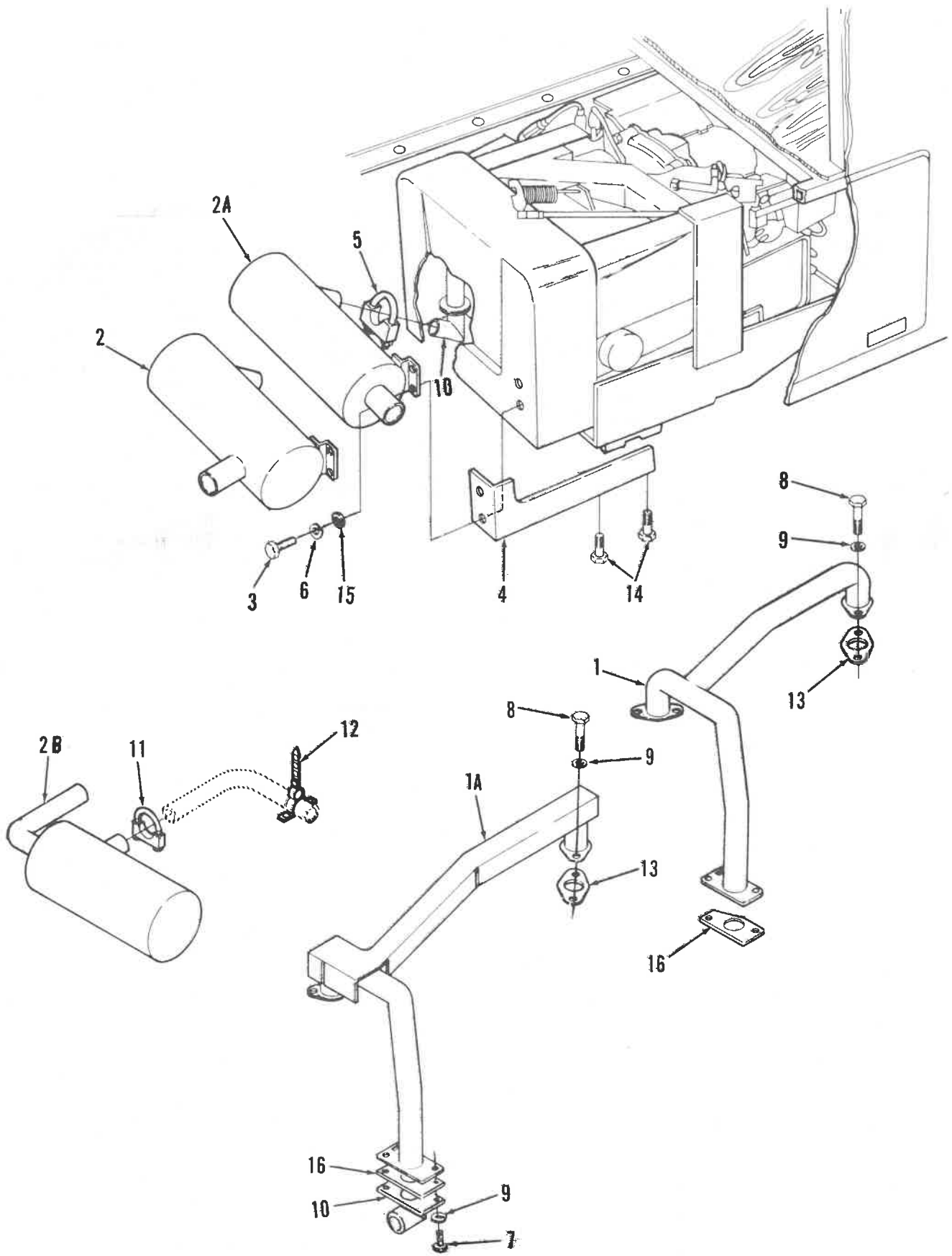


Exhaust System - Above Floor Models

5620-0065
5620-0127

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-2551	1	Manifold, Exhaust BGE	12A	155-1485	1	Muffler, Spark Arrestor End Outlet, Side Outlet Near Inlet
1A	154-2627	1	Manifold, Exhaust - Bottom Outlet (Includes Fuel Line and Heat Shield) BGE	13	155-1239	1	Clamp, Muffler (1-5/8")
2	850-0045	7	Washer, Lock (1/4")	14	155-2174	1	Hanger, Exhaust
3	155-2049	1	Bracket, Exhaust	15	155-1015	1	Clamp, Muffler (1-1/2")
4	154-2542	1	Gasket, Exhaust	16			Screw, Hex Washer Head - Thread Form (1/4-20x5/8")
5			Adapter, Exhaust (Flange Type)		815-0499	2	(1/4-20x1/2")
	154-2540	1	4-1/4" Long		815-0261	2	(1/4-20x1/2")
	154-2683	1	6-1/4" Long	17	155-2026	1	Strap, Muffler
	154-2718	1	8" Long	18	154-1725	2	Gasket, Exhaust Manifold
6	155-2025	1	Strap, Muffler (5.77" Long)	19	800-0026	4	Screw, Cap - Hex Head (5/16-18x3/4")
7	800-0730	2	Screw, Cap - Hex Head (5/16-18x1")	20			Bracket, Exhaust Manifold BGE (1.97" Long)
8	800-0007	1	Screw, Cap - Hex Head (1/4-20x1")		155-2036	1	BGE (2.31" Long)
9			Screw, Cap - Hex Head Use With-Out Spacer (5/16-18x3/4")	21	800-0005	1	Screw, Cap - Hex Head (1/4-20x3/4")
	800-0026	1	Use With Spacer (5/16-18x2-3/4")	22	526-0018	1	Washer, Flat (1/4" Screw)
	800-0036	1	Use With Spacer (5/16-18x2-3/4")	23	821-0029	2	Screw, Hex Washer Head - Self-Lock (3/8-16x3/4")
10	862-0001	1	Nut, Hex (1/4-20)	24	154-2662	1	Tube, Exhaust - 11" Long (Use With 154-2663 Bracket)
11	850-0040	1	Washer, Lock (1/4")	25	154-2663	1	Bracket, Exhaust (Use With 154-2662 Tube)
12	155-1258	1	Muffler, Spark Arrestor Side Inlet, End Outlet	26	370-4027	1	Spacer, Muffler- 2" Long (Used Only On RVs With 6-1/4" Long Exhaust Adapter)

Exhaust System - Below Floor Models



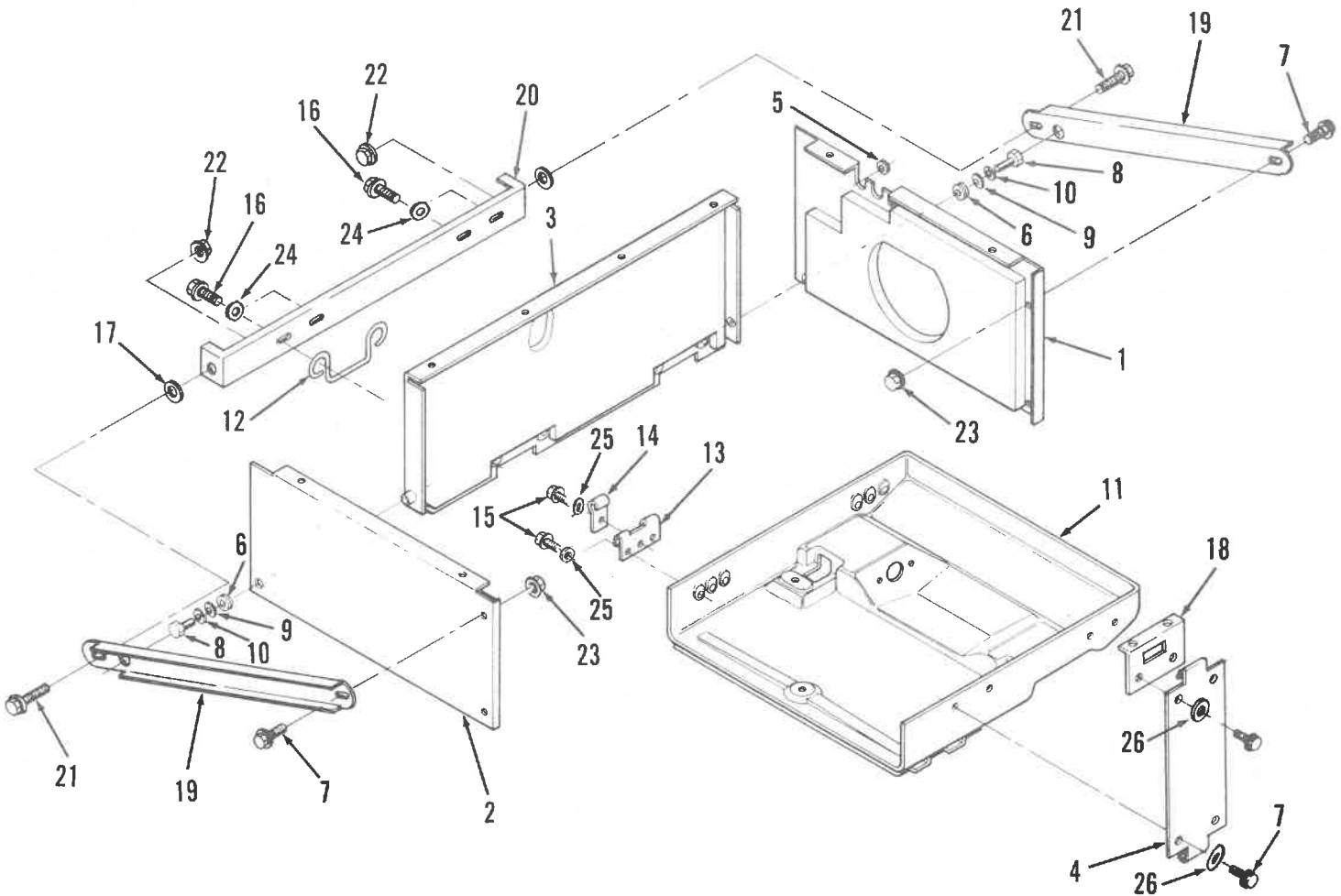
Exhaust System - Below Floor Models

5620-0065
5620-0127

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-2551	1	Manifold, Exhaust BGE	5	155-1256	1	Clamp, Muffler (1-1/4")
1A	154-2627	1	Manifold, Exhaust - Bottom Outlet (Includes Fuel Line and Heat Shield) BGE	6	850-0040	2	Washer, Lock (1/4")
2	155-2086	1	Muffler, Spark Arrestor - (Side Inlet, Opposite Side Outlet)	7	800-0730	2	Screw, Cap - Hex Head (5/16-18x1")
2A	155-2085	1	Muffler, Spark Arrestor - (Side Inlet, Opposite End Outlet)	8	800-0026	4	Screw, Cap - Hex Head Exhaust Manifold (5/16-18x3/4")
2B	155-2164	1	Muffler, Spark Arrestor - (Side Inlet, Same End Outlet)	9	850-0045	6	Washer, Lock (5/16")
3	800-0004	2	Screw, Cap - Hex Head (1/4-20x5/8")	10	154-2539	1	Tube, Exhaust
4	155-2049	1	Bracket, Exhaust Manifold	11	155-1015	1	Clamp, Muffler (1-1/2")
				12	155-2174	1	Hanger, Exhaust Pipe
				13	154-1725	2	Gasket, Exhaust Manifold
				14	821-0029	2	Screw, Hex Washer Head - Self Lock (3/8-16x3/4")
				15	526-0130	2	Washer, Flat (1/4" Screw)
				16	154-2542	1	Gasket, Exhaust

Housing - Below Floor Models
Commercial Sets - Prior to 1988
All RV Sets

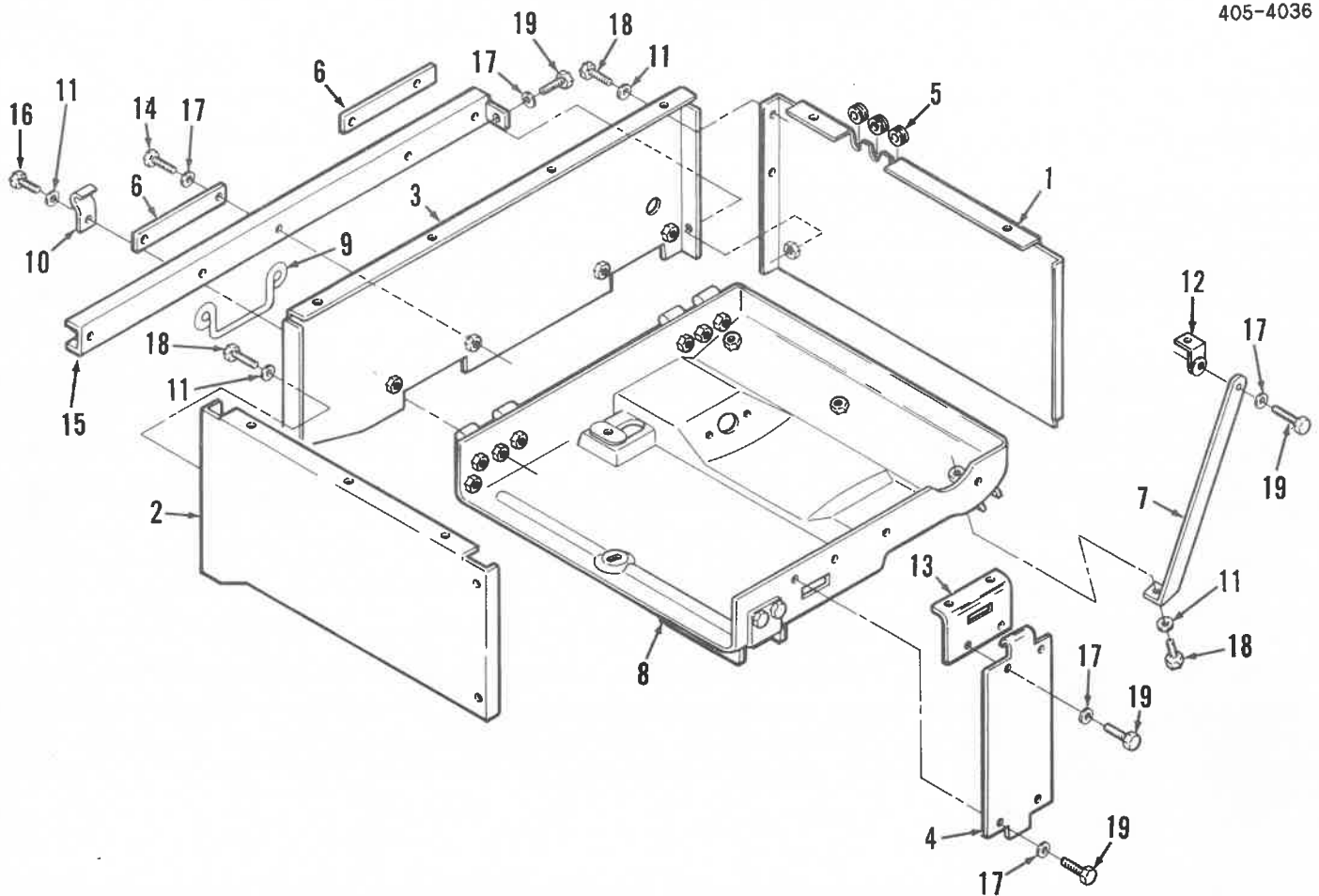
405-3335



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-3332	1	Panel, Housing (Right Hand)	12	406-0566	2	Pin, Hinge
2	405-3333	1	Panel, Housing (Left Hand)	13	406-0567	2	Plate, Hinge
3	405-3334	1	Panel, Housing (Rear)	14	406-0568	2	Support, Hinge
4	405-3453	1	Support - Housing	15	800-0005	6	Screw, Hex Head - Cap (1/4-20 x 3/4")
5	508-0071	3	Grommet, Rubber	16	800-0048	4	Screw, Hex Head - Cap (3/8-16 x .75)
6	508-0008	2	Grommet, Rubber	17	526-1518	4	Washer, Flat (7/16" Screw)
7	821-0014	2	Screw, Self-Locking (5/16-18 x 1/2")	18	405-3405	1	Bracket, Housing
	800-0026	4	Hex Head Cap (5/16-18 x 3/4")	19	405-3611	2	Brace, Side (22.2" Long)
8	800-0002	2	Screw, Cap - Hex Head (1/4-20 x .38)	20	405-3612	1	Brace, Rear (27.35" Long)
9	526-0130	2	Washer, Flat (1/4" Screw)	21	821-0033	2	Screw, Hex Head - Lock (7/16-14 x .75")
10	850-0040	2	Washer, Lock (1/4)	22	870-0437	2	Nut, Hex (7/16-14)
11	403-2557-01	1	Pan, Drip	23	870-0257	2	Nut, Hex (5/16-18)
				24	526-0174	4	Washer, Flat (3/8" Screw)
				25	526-0382	6	Washer, Flat (1/4" Screw)
				26	526-0122	4	Washer, Flat (5/16" Screw)

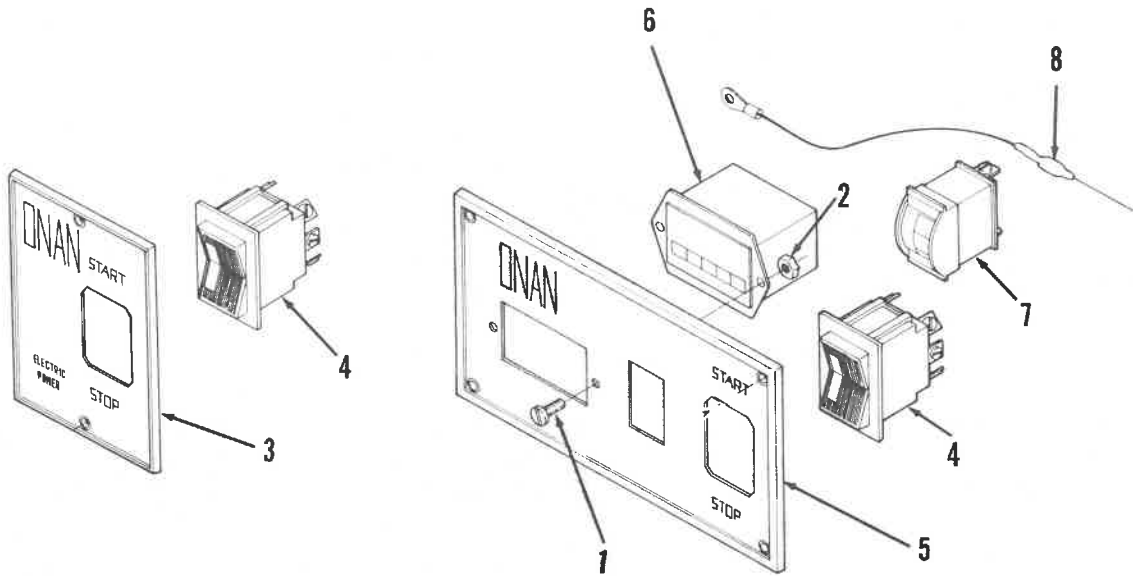
Housing - Below Floor Models
Commercial Sets - Begin 1988

405-4036



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-3993	1	Panel Housing (Right Hand)	10	406-0657	2	Support, Hinge
2	405-3988	1	Panel Housing (Left Hand)	11	526-0122	8	Washer, Flat (5/16" Screw)
3	405-3986	1	Panel Housing (Rear)	12	405-4037	1	Bracket, Housing
4	405-3974	1	Support - Housing (Includes Warning Label)	13	405-3999	1	Bracket, Housing
5	508-0071	3	Grommet, Rubber	14	800-0589	4	Screw, Cap - Hex Head (3/8-16 x 1-1/2")
6	405-3996	2	Spacer, Brace	15	405-4000	1	Brace, Rear (27.22" Long)
7	405-3955	1	Support, Housing (Includes Caution Label)	16	800-0029	2	Screw, Cap - Hex Head (5/16-18 x 1.12")
8	403-2727	1	Pan, Drip	17	526-0174	23	Washer, Flat (3/8" Screw)
9	406-0655	2	Pin, Hinge	18	800-0026	6	Screw, Cap - Hex Head (5/16-18 x 3/4")
				19	800-0517	6	Screw, Cap - Hex Head (3/8-16 x 1")

Remote Start Control

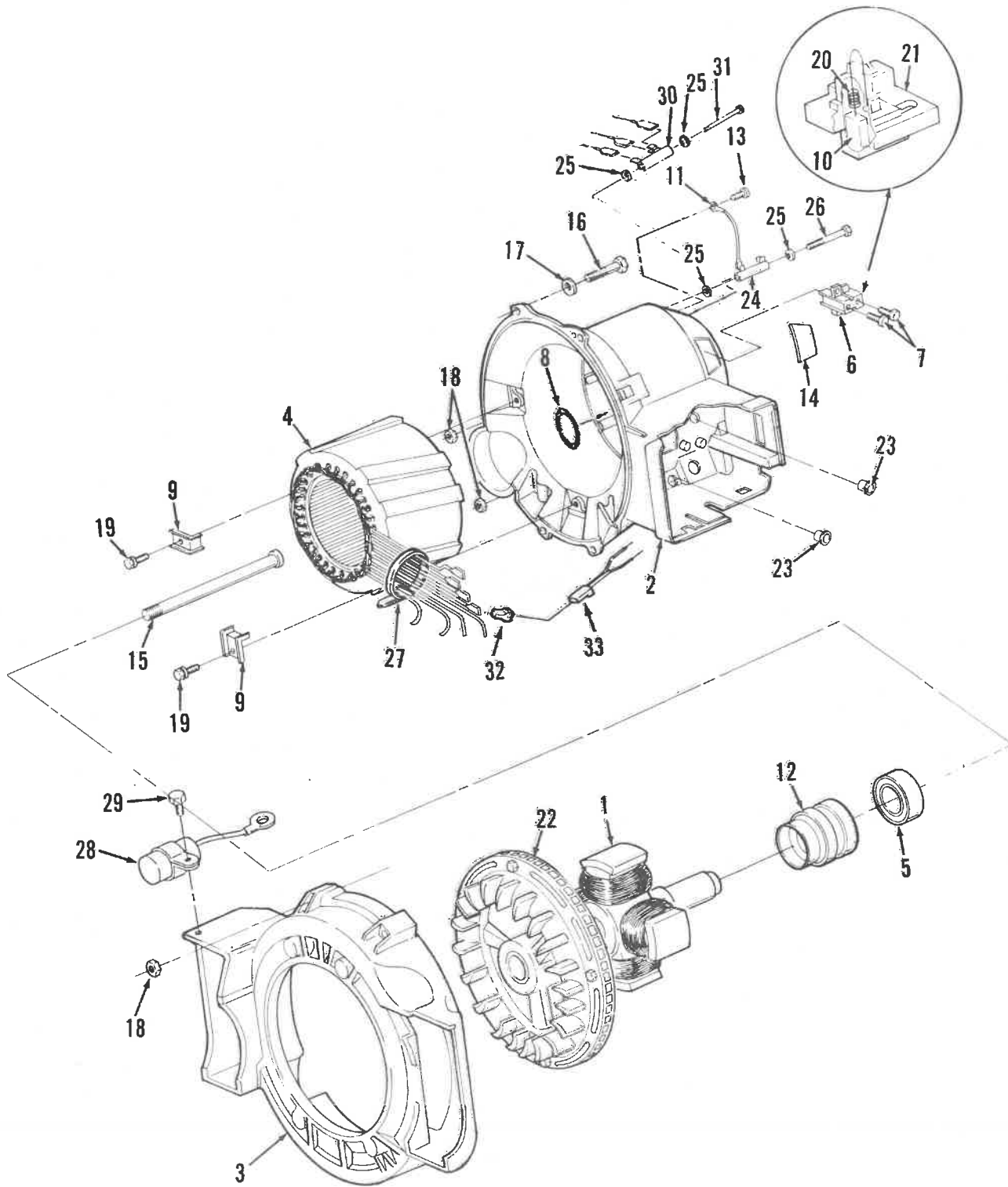


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-2313	1	Control Kit - Standard Remote Starting (Includes Parts Marked*)	6	302-0885	1	+Meter, Time Totalizing
	300-2314	1	Control Kit - Deluxe Remote Starting (Includes Parts Marked +)	7	302-0888	1	+Meter, Battery Condition
				8	359-0034	1	+Diode
1	815-0385	2	+Screw, Machine - Round Head (#6-32x1/2")		338-1082	1	Harness, Wiring - Remote (Not Illustrated) 6" Long
2	860-0005	2	+Nut, Hex Head (#6-32)		338-1080	1	10 Feet Long
3	301-3566	1	*Panel, Control		338-1081	1	30 Feet Long (Includes Parts Listed Below)
4	308-0341	1	*+Switch, Rocker		323-0400	1	Housing, Connector
5	301-3606	1	+Panel, Control		323-0500	5	Pin, Contact

* - Parts Included In 300-2313 Control.

+ - Parts Included In 300-2314 Deluxe Control.

Generator

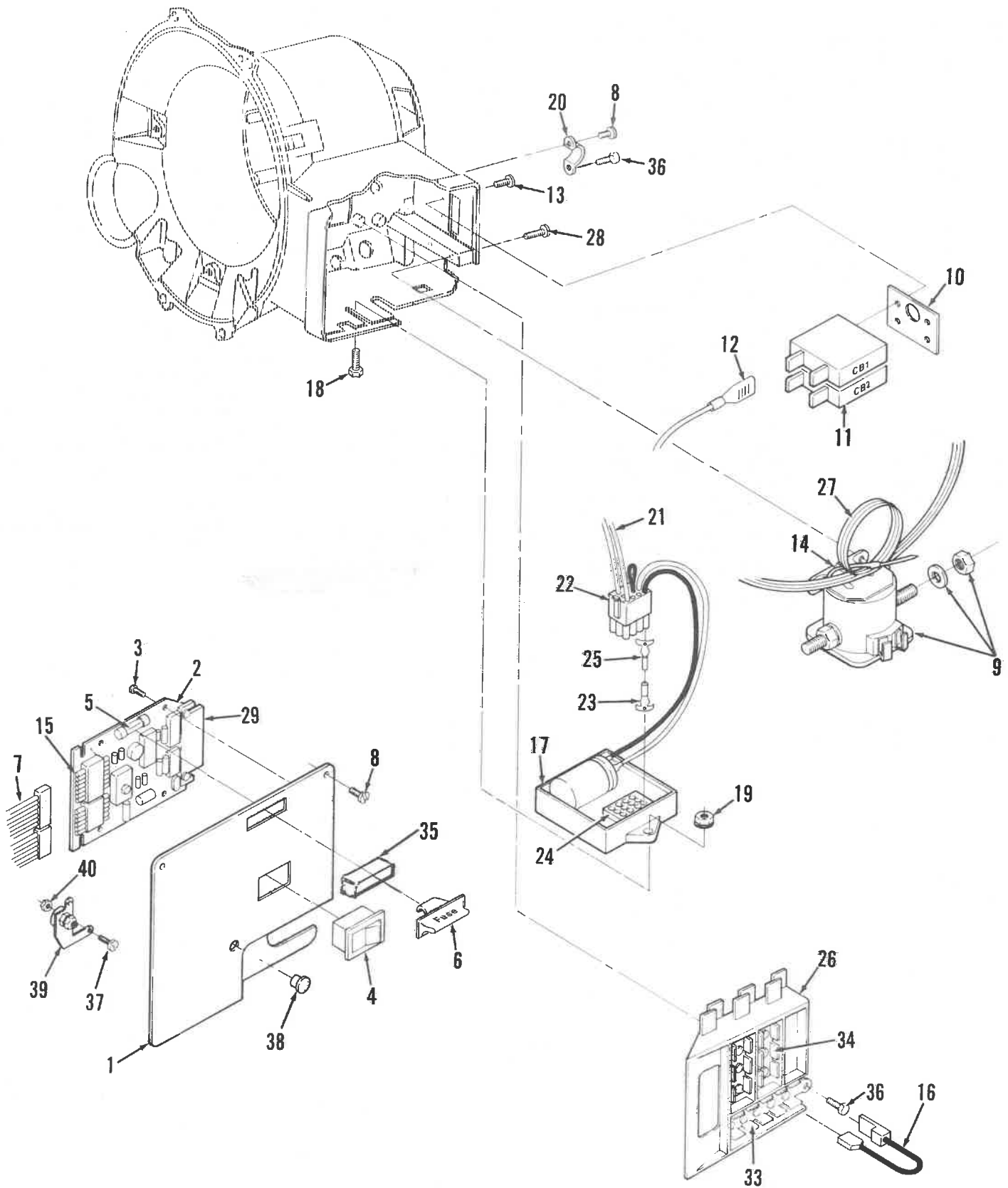


Generator

5620-0071

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Armature, Wound (Includes Fan, Ball Bearing And Collector Ring)	17	850-0050	4	Washer, Lock (3/8")
	201-3388-01	1	60 Hertz	18	862-0003	6	Nut, Hex (3/8-16)
	201-3388-03	1	50 Hertz	19	815-0646	3	Screw, Cap - Hex Washer Head (1/4-20x3/4")
2	220-4133	1	Housing, Stator (Includes Tolerance Ring)	20	212-1276-03	2	*Spring, Generator Brush
3	231-0288	1	Adapter, Generator	21	212-1277	1	*Block, With Terminal
4			Stator, Wound	22	205-0165	1	Fan And Gear, Armature
	220-4135-04	1	120 Volt, 60 Hertz, 2 Wire	23	508-0272	2	Grommet, Nylon (.68" ID)
	220-4135-03	1	120/240 Volt, 50 Hertz, 3 Wire	24	304-0794	1	Resistor, Battery Charger (25 Watts)
5	510-0099	1	Bearing, Ball	25			Washer, Center - Resistor
6	212-1278	1	Block, Generator Brush (Includes Parts Marked *)		304-0796	4	Gasoline
					304-0796	2	LP Gas
7	815-0359	2	Screw, Hex Head - Thread Form (10-32 x 7/8")	26	815-0660	1	Screw, Hex Head (10-32x2-1/2")
8	509-0196	1	O-Ring, Stator Housing	27	332-0941	1	Tie, Cable - 50 Hertz
9	232-2955	3	Clamp, Stator	28	312-0256	1	Condenser, Ignition - Use Begin 9/87
10	214-0103	2	*Brush, Generator	29	815-0340	1	Screw, Hex Washer Head - Thread Form (10-32x3/8") - Use Begin 9/87
11	226-3492-01	1	Lead, Resistor	30	304-0798	1	Resistor, Fuel Pump - Gasolin
12	204-0134	1	Ring, Collector - Armature	31	815-0712	1	Screw, Pan Head (Special)
13	815-0691-01	1	Screw, Pan Head (Special)	32	323-1298	2	Connector, Tab
14	212-1284	1	Cover, Brush Block	33	332-0819	2	Connector, Receptacle
15	802-1038	1	Screw, Socket - Armature Through (7/16-14x10.23")				
16			Screw, Cap - Hex Head	* - Parts Included In 212-1278 Generator Brush Block			
	800-0051	4	(3/8-16 x 1-1/4") BGE				
	800-0052	4	(3/8-16 x 1-1/2") BGEL				

Control

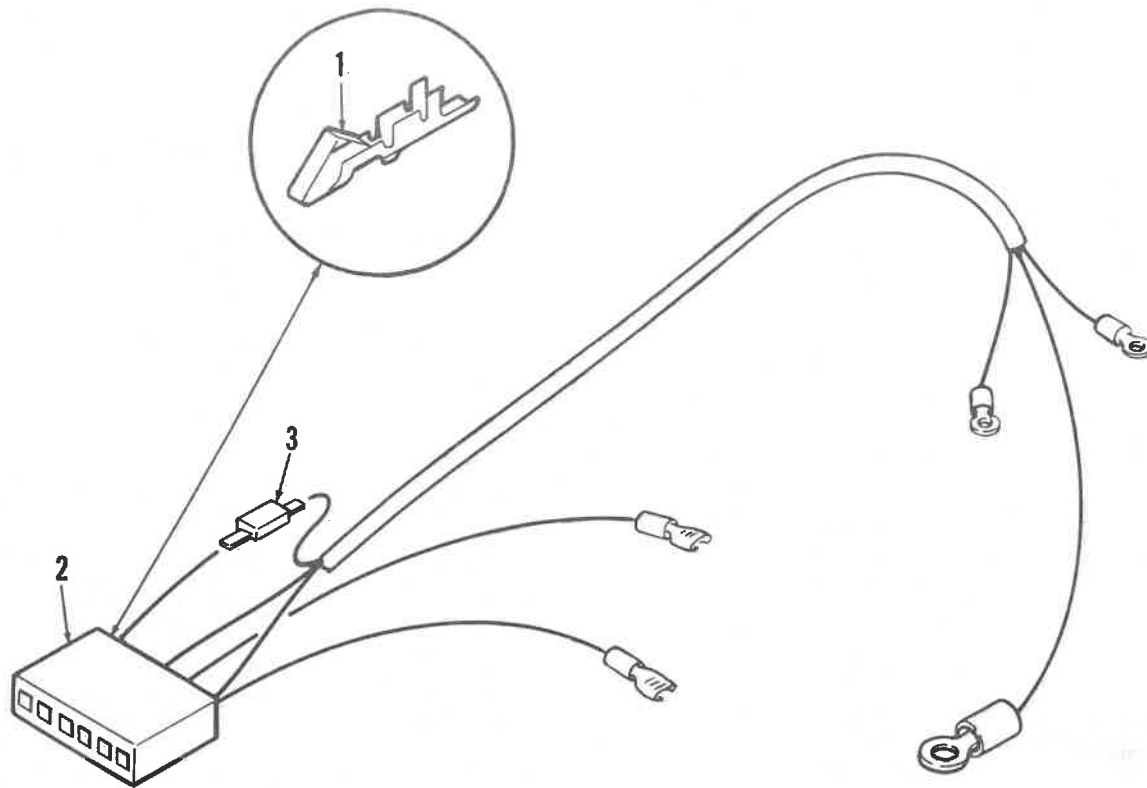


Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cover, Control	19	870-0131	1	Nut, Hex - W/ET (10-32)
	301-9730	1	60 Hertz	20	232-3265	1	Clamp, Conduit
	301-9875	1	50 Hertz	21			Harness, Wiring - Voltage
2	300-3056	1	Board, Printed Circuit				Regulator (Includes 12 Pin Housing)
3	815-0550	4	Screw, Pan Head-X Rec. (6-32 x 3/8")		338-2076	1	60 Hertz
4	308-0844	1	Switch, Rocker		338-2083	1	50 Hertz
5	321-0298	2	Fuse, 5 Amps - Slo-Blow	22	323-1314	1	Housing (12 Pin)
6	321-0295	1	Holder, Fuse (Holds Spare Fuses)	23	323-1200	12	Socket, Contact - 60 Hertz
7			Harness, Wiring (Includes Housing) (See Separate Page For Components)	24	323-1371	1	Header (12 Pin)
	338-2040	1	8-Pin Housing	25	323-1199	12	Pin, Contact
	338-2041	1	6-Pin Housing	26	332-2859-02	1	Block, Terminal
8	815-0661	2	Screw, Pan Head - Thread Forming (10-32 x 1/2")		332-2859-01	1	60 Hertz
9	307-2570	1	Solenoid, Start (Includes Nuts And Washers)	27			50 Hertz
10	320-1561	1	Guard, Circuit Breaker - 60 Hertz		338-2045	1	Harness, Wiring - AC Outlet
11			Breaker, Circuit		338-2058	1	60 Hertz
	320-1323	1	30 Ampere - 60 Hertz	28	815-0692-02	2	50 Hertz
	320-1548-02	1	18.5 Ampere - 50 Hertz	29	323-1370	1	Screw, Torx - Pan Head (Special)
12			Lead, Circuit Breaker	33	332-2868	1	Connector - 6 Pin
	226-3504	1	50, 60 Hertz	34			Terminal, Ground
	226-3504-01	1	50 Hertz		332-1815	2	Terminal, Tab
13	815-0662	2	Screw, Slotted Head W/IT (6-32 x 1/2")		332-1815	3	60 Hertz
14	332-0941	2	Tie, Cable	35	321-0287	1	50 Hertz
15	323-1302	8	Pin, Contact	36	815-0691-01	2	Insulator, Fuse
16	226-3461-04	1	Lead, 50 Hertz	37	815-0385	1	Screw, Pan Head (Special)
17	305-0782-01	1	Regulator, Voltage				Screw, Round Head - Machine (6-32 x 1/2") - 50 Hertz
18	821-0003	1	Screw, Hex Head (10-32 x 1")	38	517-0131	1	Plug, Hole - 50 Hertz
				39	303-0276	1	Potentiometer - 50 Hertz
				40	870-0183	1	Nut, Hex - W/ET (#6) - 50 Hertz

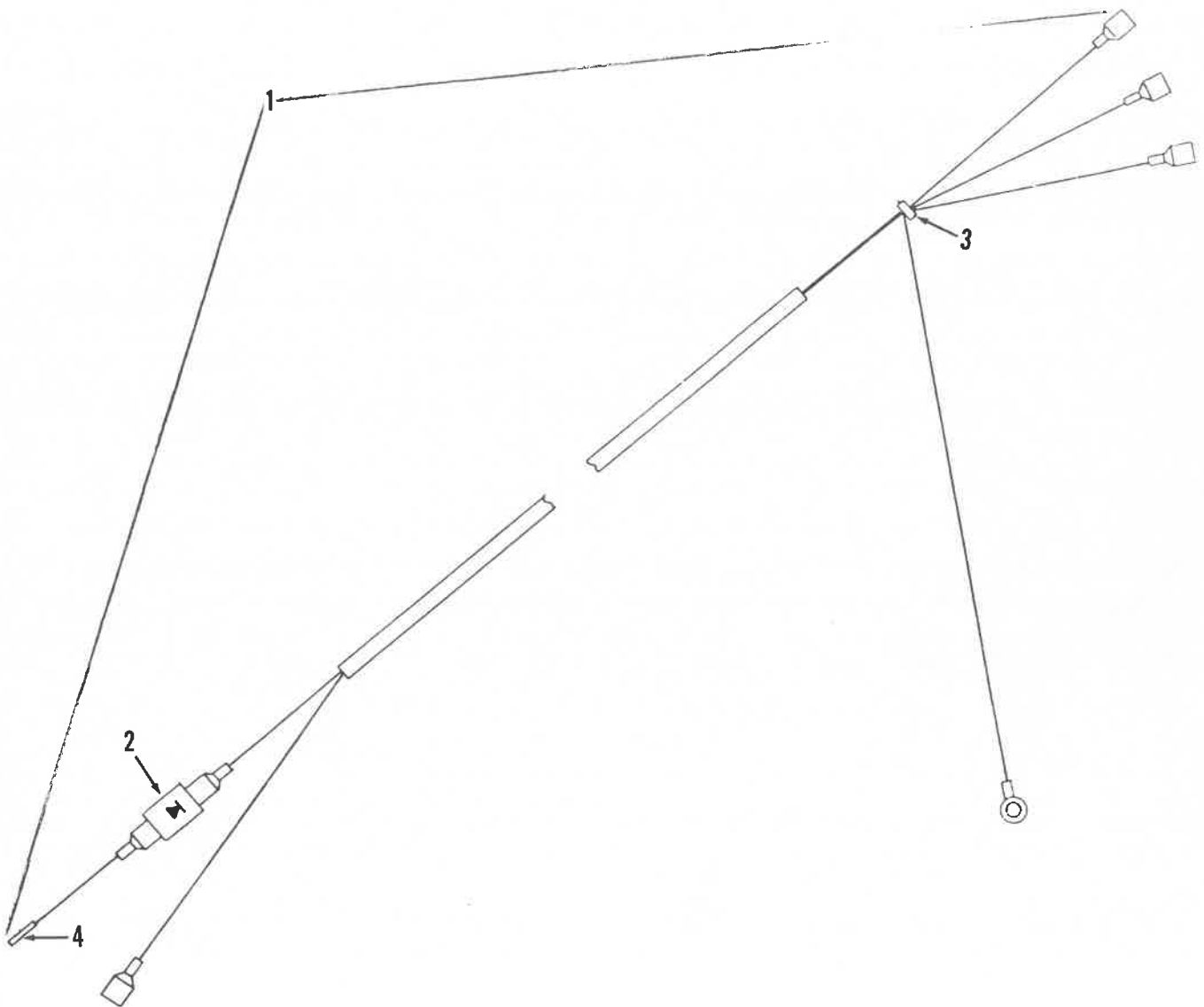
Wiring Harness
PCB #3

5620-0070
5620-0243



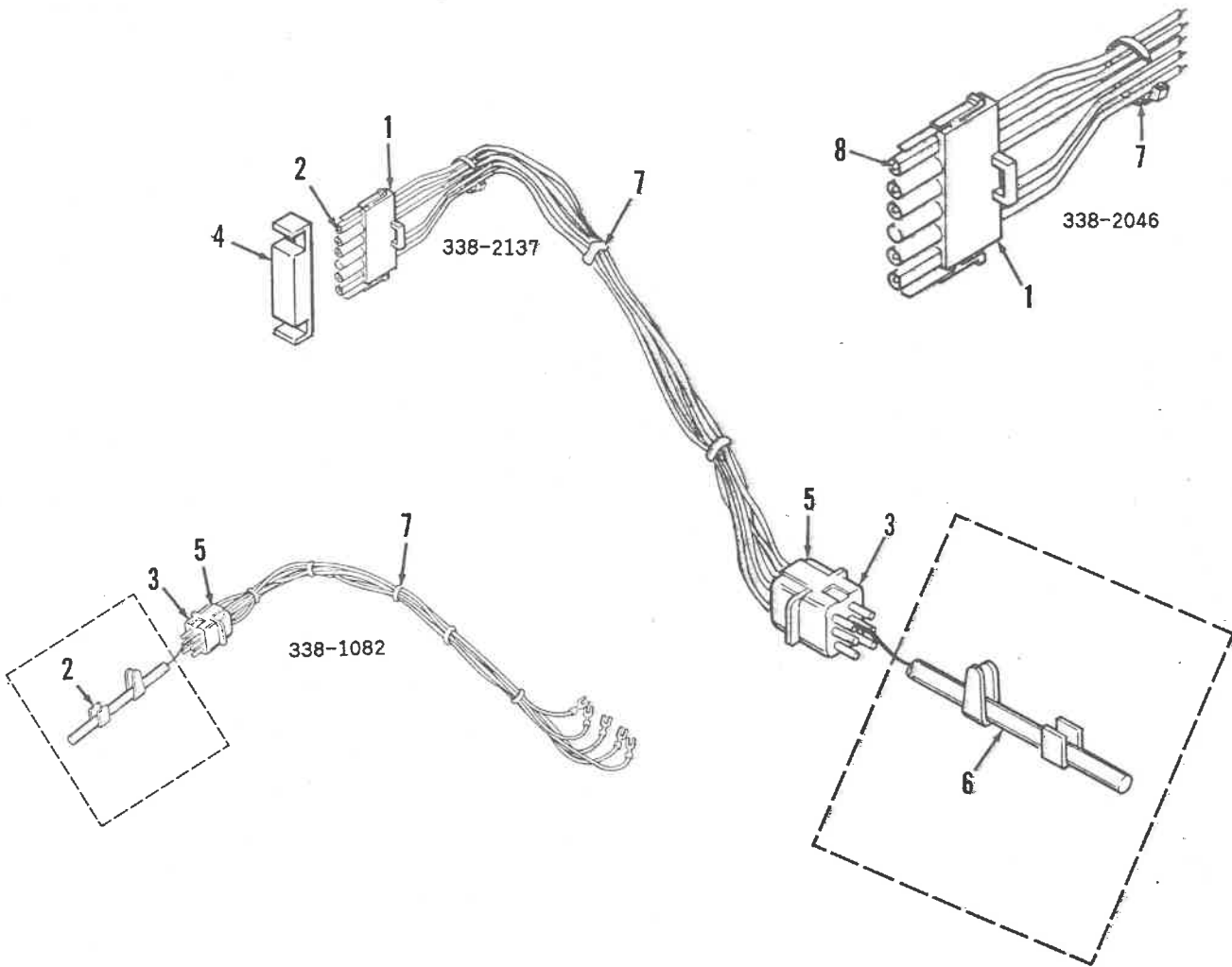
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	338-2041	1	Harness, Wiring	2	323-1329	1	Housing
	338-2040	1	6 Pin Housing - 5 Wire		323-1312	1	6 Pin
	338-2086	1	8 Pin Housing - 5 Wire	3	357-0067	1	8 Pin
1			BGEL				Rectifier - BGEL
			Pin, Contact				
	323-1302	6	Use With 6 Pin Housing				
	323-1302	8	Use With 8 Pin Housing				

Wiring Harness



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-2317	1	Harness, Wiring - Ignition	3	332-0942	1	Tie, Cable
2	357-0067	1	Relay - BGEL	4	323-1302	1	Pin, Contact
			Rectifier, Silicon				

Remote Wiring Harness



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	338-1082	1	Harness, Wiring - Remote Without Socket - 6" Long (Includes 5 Connector Pins)	3	323-0440	1	Housing, Socket Pin
	338-2137	1	With Socket - 6" Long 6 Pin	4	323-1303	1	Connector, 6 Pin
	338-2046	1	Without Socket (Includes 5 Contact Pins)	5	323-0400	1	Housing, Connector Pin
1	323-1304	1	Housing, Connector	6	323-0488	1	Socket, Connector - Female
2	323-0500	6	Pin, Connector - Male	7	332-0942	1	Tie, Cable
	323-0500	5	Use With 5 Pin Harness	8	323-1199	5	Pin, Contact

Labels, Paint And Thread Sealant

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
98-5313		1	Label, Warning(Battery Cables)	98-5777-01		1	Label, Warning (Improper Operation)
98-5142		1	Label, Warning(Fire Hazard)				
98-5626		1	Decal (Emerald I) - 60 Hertz	98-5815		1	Service Instructions - BGE
98-5852		1	Decal (Emerald I) - 50 Hertz	518-0452		1	Sealant, Thread (50cc. Bottle)
98-5641-01		3	Label, Performer - 18 Horsepower	525-0305		1	Paint, Enamel Touch-Up Green (Non-Metallic) 13 oz. Pressurized Can
98-5755		1	Label, Warning (Hazardous Voltage)				
98-5958		1	Label, LP Kit				

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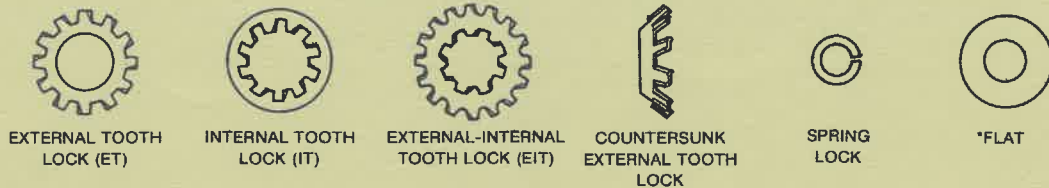
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HARDWARE IDENTIFICATION

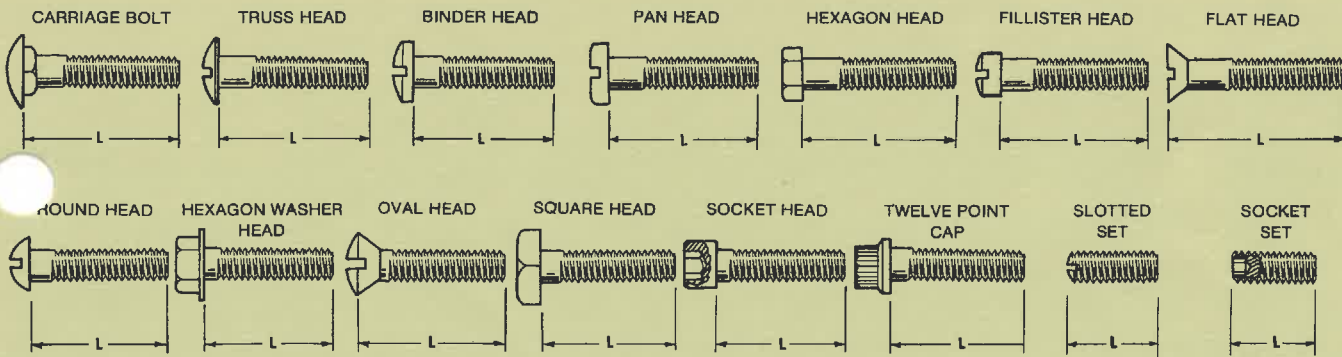
Illustrated hardware items are only for identification purposes. All hardware items listed throughout this parts catalog are steel SAE grade five (5) or lower (zinc plated with clear chromate dip) unless parts description indicates differently. All dimensions are in inches.

WASHER TYPES



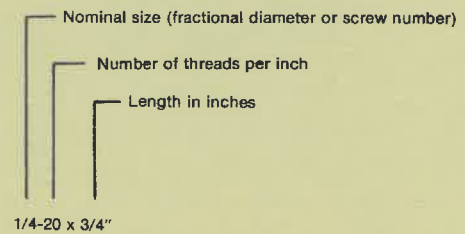
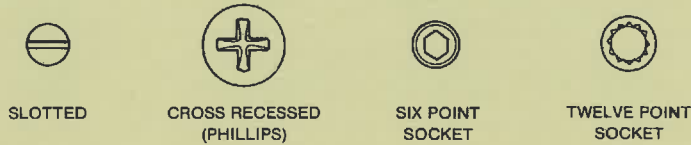
* - Flat washer dimensions given are: Inside Diameter (ID), Outside Diameter (OD) and Thickness (Thk).

BOLT AND SCREW TYPES

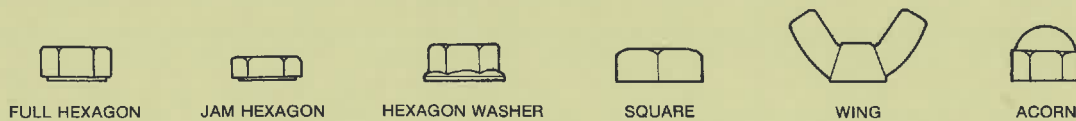


L - Measure length between these points.

INTERNAL DRIVE TYPES



NUT TYPES





Onan Corporation
1400 73rd Avenue N.E.
Minneapolis, Minnesota 55432

Telephone: (612) 574-5000
Telex: 275477
Cable ONAN