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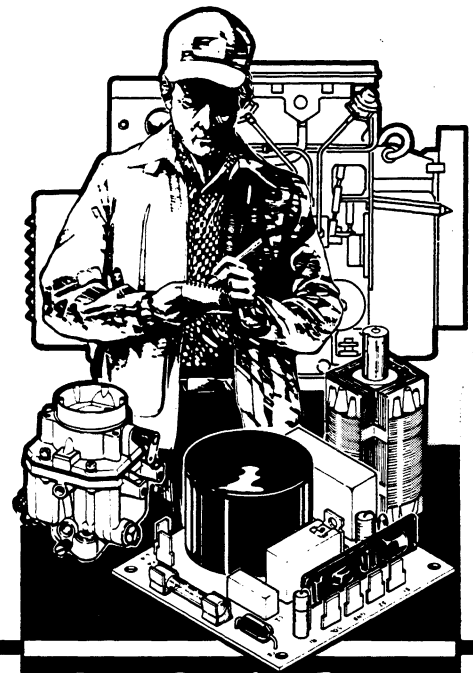
**Onan**

# **Parts Manual**

**3.5 & 4.0**

**BGE/BGEL**

**Emerald I  
GenSet**



**RV Electric Generating Set**

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**Onan Service Parts**

**965-0230  
12-86 (BGE Spec A-C) (BGEL Spec B)**

**Replaces  
10-85(SPEC A-C)  
Printed in U.S.A.**

# Important Safety Precautions

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Read and observe these safety precautions when using or working on electric generators, engines and related equipment. Also read and follow the literature provided with the equipment.

Proper operation and maintenance are critical to performance and safety. Electricity, fuel, exhaust, moving parts and batteries present hazards that can cause severe personal injury or death.

## FUEL, ENGINE OIL, AND FUMES ARE FLAMMABLE AND TOXIC

Fire, explosion, and personal injury can result from improper practices.

- Used engine oil, and benzene and lead, found in some gasoline, have been identified by government agencies as causing cancer or reproductive toxicity. When checking, draining or adding fuel or oil, do not ingest, breathe the fumes, or contact gasoline or used oil.
- Do not fill tanks with engine running. Do not smoke around the area. Wipe up oil or fuel spills. Do not leave rags in engine compartment or on equipment. Keep this and surrounding area clean.
- Inspect fuel system before each operation and periodically while running.
- Equip fuel supply with a positive fuel shutoff.
- Do not store or transport equipment with fuel in tank.
- Keep an ABC-rated fire extinguisher available near equipment and adjacent areas for use on all types of fires except alcohol.
- Unless provided with equipment or noted otherwise in installation manual, fuel lines must be copper or steel, secured, free of leaks and separated or shielded from electrical wiring.
- Use approved, non-conductive flexible fuel hose for fuel connections. Do not use copper tubing as a flexible connection. It will work-harden and break.

## EXHAUST GAS IS DEADLY

- Engine exhaust contains carbon monoxide (CO), an odorless, invisible, poisonous gas. Learn the symptoms of CO poisoning.
- Never sleep in a vessel, vehicle, or room with a genset or engine running unless the area is equipped with an operating CO detector with an audible alarm.
- Each time the engine or genset is started, or at least every day, thoroughly inspect the exhaust system. Shut down the unit and repair leaks immediately.

- Warning: Engine exhaust is known to the State of California to cause cancer, birth defects and other reproductive harm.

*Make sure exhaust is properly ventilated.*

- Vessel bilge must have an operating power exhaust.
- Vehicle exhaust system must extend beyond vehicle perimeter and not near windows, doors or vents.
- Do not use engine or genset cooling air to heat an area.
- Do not operate engine/genset in enclosed area without ample fresh air ventilation.
- Expel exhaust away from enclosed, sheltered, or occupied areas.
- Make sure exhaust system components are securely fastened and not warped.

## MOVING PARTS CAN CAUSE SEVERE PERSONAL INJURY OR DEATH

- Do not remove any guards or covers with the equipment running.
- Keep hands, clothing, hair, and jewelry away from moving parts.
- Before performing any maintenance, disconnect battery (negative [-] cable first) to prevent accidental starting.
- Make sure fasteners and joints are secure. Tighten supports and clamps, keep guards in position over fans, drive belts, etc.
- If adjustments must be made while equipment is running, use extreme caution around hot manifolds and moving parts, etc. Wear safety glasses and protective clothing.

## BATTERY GAS IS EXPLOSIVE

- Wear safety glasses and do not smoke while servicing batteries.
- Always disconnect battery negative (-) lead first and reconnect it last. Make sure you connect battery correctly. A direct short across battery terminals can cause an explosion. Do not smoke while servicing batteries. Hydrogen gas given off during charging is explosive.
- Do not disconnect or connect battery cables if fuel vapors are present. Ventilate the area thoroughly.

## **DO NOT OPERATE IN FLAMMABLE AND EXPLOSIVE ENVIRONMENTS**

Flammable vapor can be ignited by equipment operation or cause a diesel engine to overspeed and become difficult to stop, resulting in possible fire, explosion, severe personal injury and death. **Do not operate diesel equipment where a flammable vapor environment can be created by fuel spill, leak, etc., unless equipped with an automatic safety device to block the air intake and stop the engine.**

## **HOT COOLANT CAN CAUSE SEVERE PERSONAL INJURY**

- Hot coolant is under pressure. Do not loosen the coolant pressure cap while the engine is hot. Let the engine cool before opening the pressure cap.

## **ELECTRICAL SHOCK CAN CAUSE SEVERE PERSONAL INJURY OR DEATH**

- Do not service control panel or engine with unit running. High voltages are present. Work that must be done while unit is running should be done only by qualified service personnel.
- Do not connect the generator set to the public utility or to any other electrical power system. Electrocutation can occur at a remote site where line or equipment repairs are being made. An approved transfer switch must be used if more than one power source is connected.
- Disconnect starting battery (negative [-] cable first) before removing protective shields or touching electrical equipment. Use insulative mats placed on dry wood platforms. Do not wear jewelry, damp clothing or allow skin surface to be damp when handling electrical equipment.
- Use insulated tools. Do not tamper with interlocks.
- Follow all applicable state and local electrical codes. Have all electrical installations performed by a qualified licensed electrician. Tag open switches to avoid accidental closure.
- With transfer switches, keep cabinet closed and locked. Only authorized personnel should have cabinet or operational keys. Due to serious shock hazard from high voltages within cabinet, all service and adjustments must be performed by an electrician or authorized service representative.

If the cabinet must be opened for any reason:

1. Move genset operation switch or Stop/Auto/Handcrank switch (whichever applies) to Stop.
2. Disconnect genset batteries (negative [-] lead first).
3. Remove AC power to automatic transfer switch. If instructions require otherwise, use extreme caution due to shock hazard.

## **MEDIUM VOLTAGE GENERATOR SETS (601V TO 15kV)**

- Medium voltage acts differently than low voltage. Special equipment and training are required to work on or around medium voltage equipment. Operation and maintenance must be done only by persons trained and qualified to work on such devices. Improper use or procedures will result in severe personal injury or death.
- Do not work on energized equipment. Unauthorized personnel must not be permitted near energized equipment. Induced voltage remains even after equipment is disconnected from the power source. Plan maintenance with authorized personnel so equipment can be de-energized and safely grounded.

## **GENERAL SAFETY PRECAUTIONS**

- Do not work on equipment when mentally or physically fatigued or after consuming alcohol or drugs.
- Carefully follow all applicable local, state and federal codes.
- Never step on equipment (as when entering or leaving the engine compartment). It can stress and break unit components, possibly resulting in dangerous operating conditions from leaking fuel, leaking exhaust fumes, etc.
- Keep equipment and area clean. Oil, grease, dirt, or stowed gear can cause fire or damage equipment by restricting airflow.
- Equipment owners and operators are solely responsible for operating equipment safely. Contact your authorized Onan/Cummins dealer or distributor for more information.

**KEEP THIS DOCUMENT NEAR EQUIPMENT FOR EASY REFERENCE.**

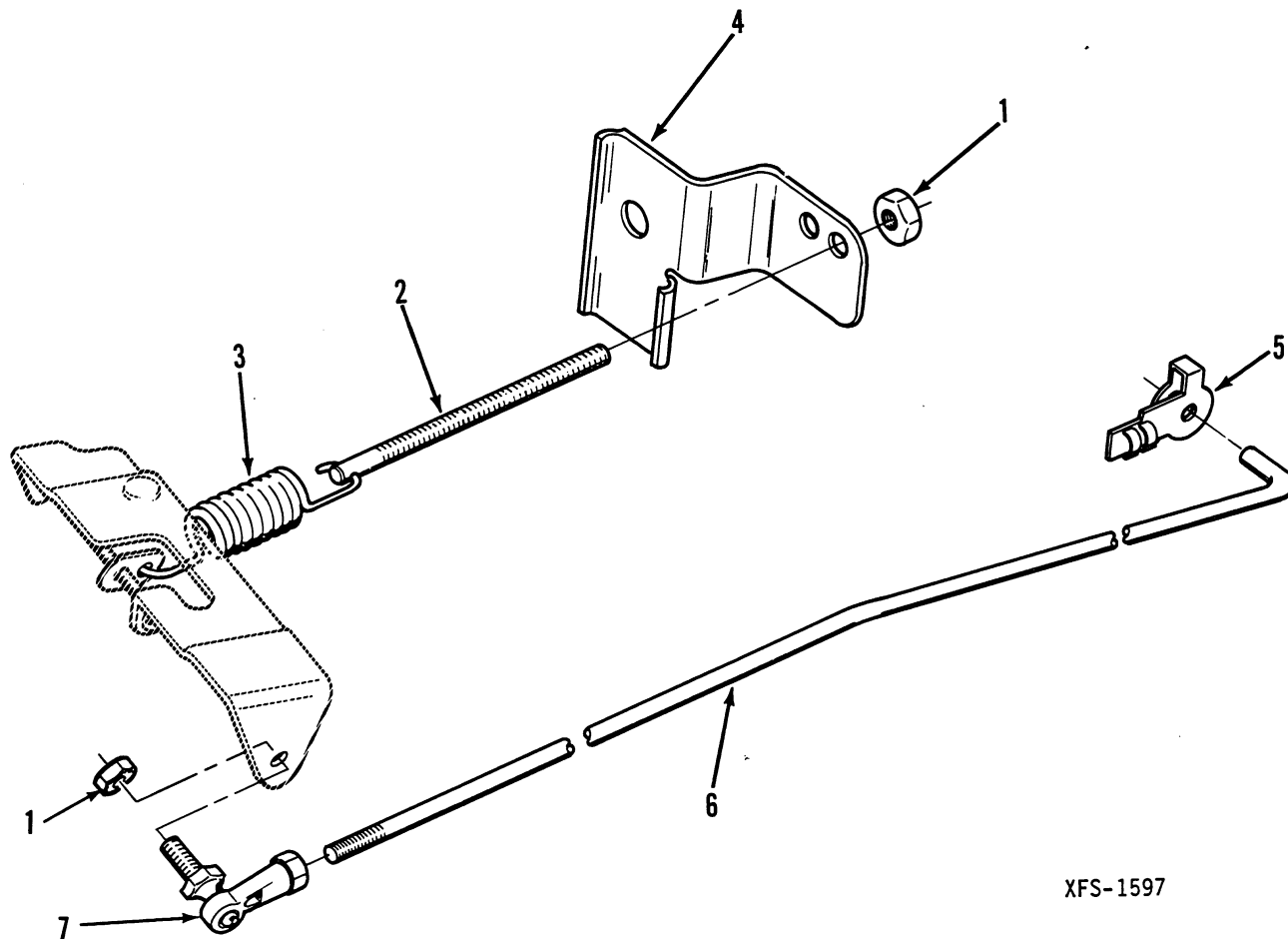
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# Governor

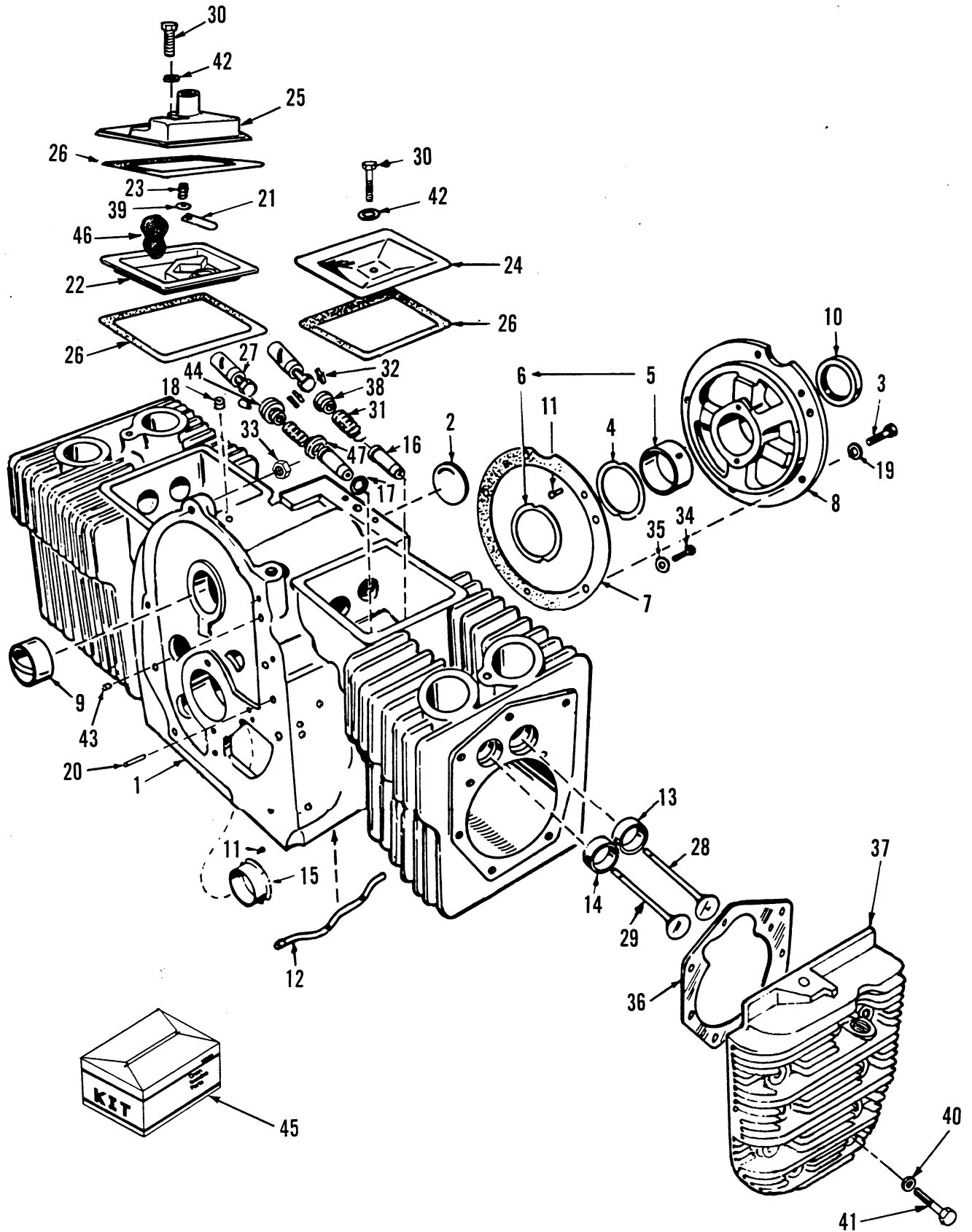
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REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0131	2	Nut, Hex - Self-Locking (10-32)	5	518-0006	1	Clip, Retaining
2	150-0096	1	Stud, Speed Adjustment	6	150-1957	1	Rod, Governor Arm To Carburetor
3	150-1612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

# Cylinder Block .



# Cylinder Block

5600-0001  
5600-0002  
5600-0004  
5600-0011  
5600-0018  
5600-0054  
5600-0055  
5600-0056

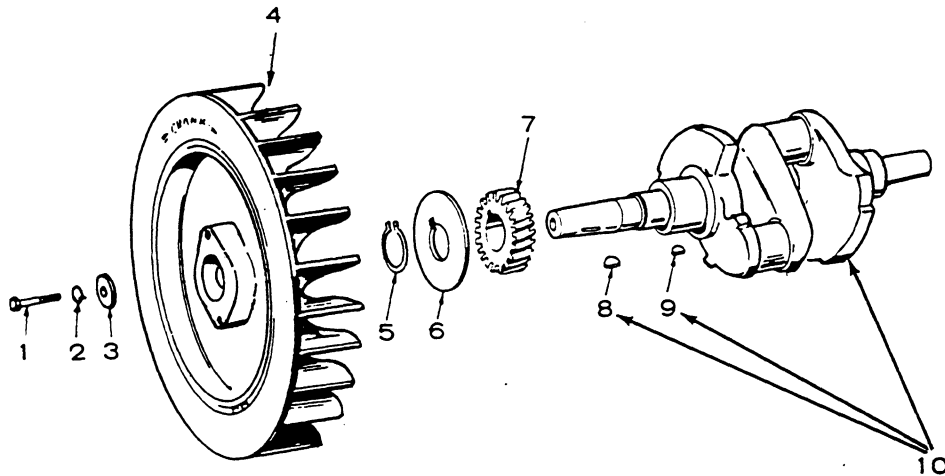
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1	110-3148	1	Block, Cylinder (Includes Parts Marked *)	18	517-0120	1	*Plug, Vacuum Port
2	517-0048	1	*Plug, Welch - Camshaft Opening (1-5/8")	19	850-0050	5	*Washer, Lock - Spring (3/8")
3	102-0455	5	*Screw, Cap - Hex Head (Special)	20	516-0141	2	*Pin, Alignment - Gear Cover
4	104-0776	AR	*Shim, Crankshaft End Play (.005")	21	123-1175	1	Reed, Breather Valve
5			Bearing, Crankshaft - Rear (Includes Thrust Washer)	22	123-1653	1	Pan, Breather
	101-0450	1	* Standard	23	123-1174	1	Spring, Breather Valve
	101-0450-02	1	.002" Undersize	24	110-1879	1	Cover, Valve - RH
	101-0450-10	1	.010" Undersize	25	123-1649	1	Housing, Breather
	101-0450-20	1	.020" Undersize	26	110-1921	3	Gasket, Valve Cover
	101-0450-30	1	.030" Undersize	27			Tappet, Valve
6	104-0575	2	*Washer, Thrust (Special)		115-0006	4	Standard
7	101-0415	1	*Gasket, Bearing Plate		115-0006-02	4	.002" Oversize
8	101-0439	1	*Plate, Bearing - Rear		115-0006-05	4	.005" Oversize
9	101-0405	2	*Bearing, Camshaft	28	110-1809	2	Valve, Exhaust
10	509-0041	1	Seal, Oil - Crankshaft Rear	29	110-1808	2	Valve, Intake
11	516-0072	4	*Pin, Drive - Bearing Stop	30	800-0010	2	Screw, Cap - Hex Head (1/4-20x1-3/4")
12	120-0735	1	*Tube, Oil - Cylinder Block	31	110-0539	4	Spring, Valve
13			Insert, Valve Seat - Exhaust	32	110-0639	8	Lock, Valve Spring
	110-1824	2	* Standard	33	870-0257	1	Nut, Hex - Self-Locking Governor Bracket (5/16-18)
	110-1824-02	2	.002" Oversize	34	800-0046	2	Screw, Cap - Hex Head (3/8-16x1/2")
	110-1824-05	2	.005" Oversize	35	526-0066	2	Washer, Flat - Copper (3/8" Screw)
	110-1824-10	2	.010" Oversize	36	110-2287	2	Gasket, Cylinder Head
	110-1824-25	2	.025" Oversize	37			Head, Cylinder
14			Insert, Valve Seat - Intake		110-3214	1	Right Side
	110-0197	2	* Standard		110-3213	1	Left Side
	110-0197-02	2	.002" Oversize	38	110-0904	4	Cap, Roto - Valve, Exhaust
	110-0197-05	2	.005" Oversize	39	526-0018	1	Washer, Flat (1/4" Screw)
	110-0197-10	2	.010" Oversize	40	526-0122	18	Washer, Flat (5/16" Screw)
	110-0197-25	2	.025" Oversize	41			Screw, Cap - Hex Head (Special)
15			Bearing, Crankshaft - Front (Flanged)		800-0540	8	1-5/8" Long
	101-0432	1	* Standard		800-0541	10	2" Long
	101-0432-02	1	.002" Undersize	42	526-0063	2	Washer, Flat - Copper (1/4" Screw)
	101-0432-10	1	.010" Undersize	43	517-0067	1	Plug, Core Hole
	101-0432-20	1	.020" Undersize	44	110-0893	2	Washer, Intake Valve Spring Retainer (Optional)
	101-0432-30	1	.030" Undersize	45			Kit, Gasket
16			*Guide, Valve Intake		168-0178	1	Carbon Removal/Valve Grind
	110-1935	2	Spec A Only		168-0181	1	Engine
	110-3161	2	Begin Spec B Exhaust	46	123-1417	1	Filter, Breather Tube
	110-1935	2	Spec A Only	47	509-0168	2	Seal, Oil-Intake Valve (Optional)
	110-1925	2	Begin Spec B				
17	110-0068	2	*Gasket, Intake Valve Guide				

\* - Parts Included In Cylinder Block.



# Crankshaft And Flywheel

5600-0003  
5600-0014



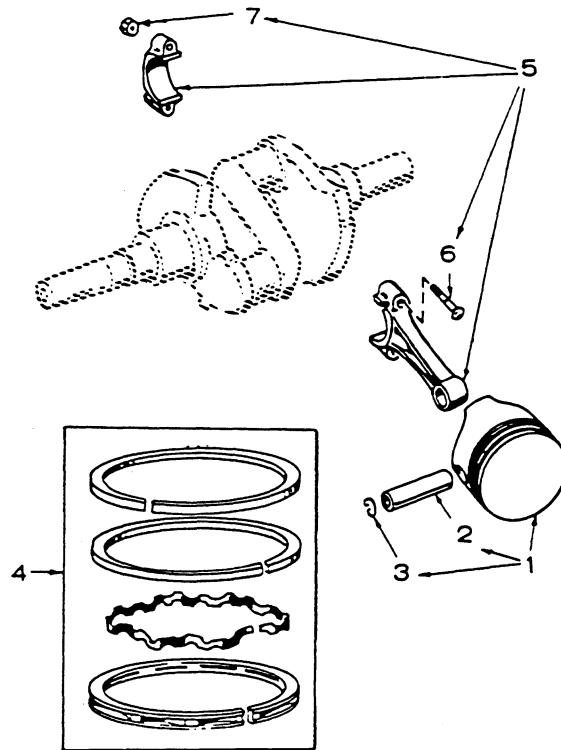
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REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	104-0170	1	Screw, Cap - Hex Head (Special)	6	104-0043	1	Washer, Gear
2	850-0055	1	Washer, Lock - Spring (7/16")	7	104-0032	1	Gear, Crankshaft
3	526-0017	1	Washer, 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.

# Piston And Rod

5600-0001

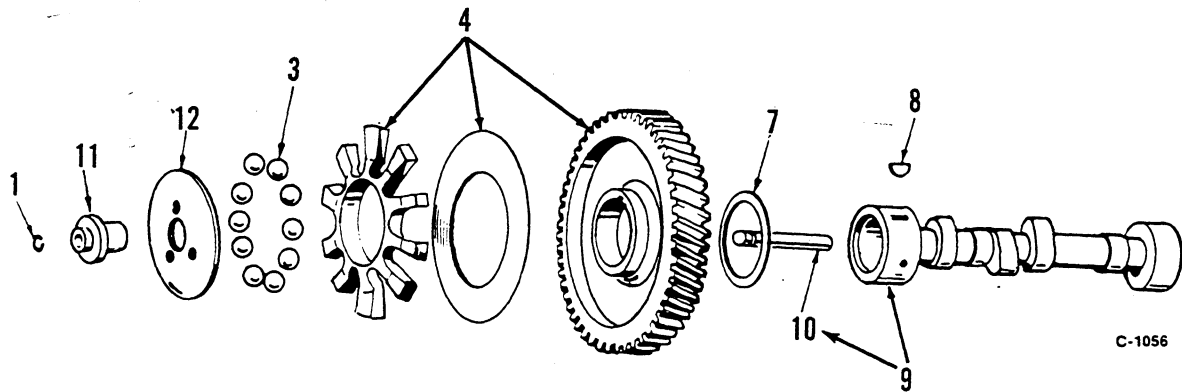


CT-1071

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Piston And Pin Assembly (Includes Retaining Rings)	5			Rod, Connecting (Includes Bolt And Nut)
	112-0186	2	Standard		114-0257	2	Standard
	112-0186-05	2	.005" Oversize		114-0257-10	2	.010" Undersize
	112-0186-10	2	.010" Oversize		114-0257-20	2	.020" Undersize
	112-0186-20	2	.020" Oversize		114-0257-30	2	.030" Undersize
	112-0186-30	2	.030" Oversize	6	114-0240	4	Bolt, Connecting Rod (Special)
	112-0186-40	2	.040" Oversize	7	870-0302	4	Nut, Self-Locking (5/16 - 24)
2	112-0229	2	Pin, Piston				
3	518-0311	4	Ring, Retaining				
4			Ring Set, Piston				
	113-0189	2	Standard				
	113-0189-05	2	.005" Oversize				
	113-0189-10	2	.010" Oversize				
	113-0189-20	2	.020" Oversize				
	113-0189-30	2	.030" Oversize				
	113-0189-40	2	.040" Oversize				

# Camshaft

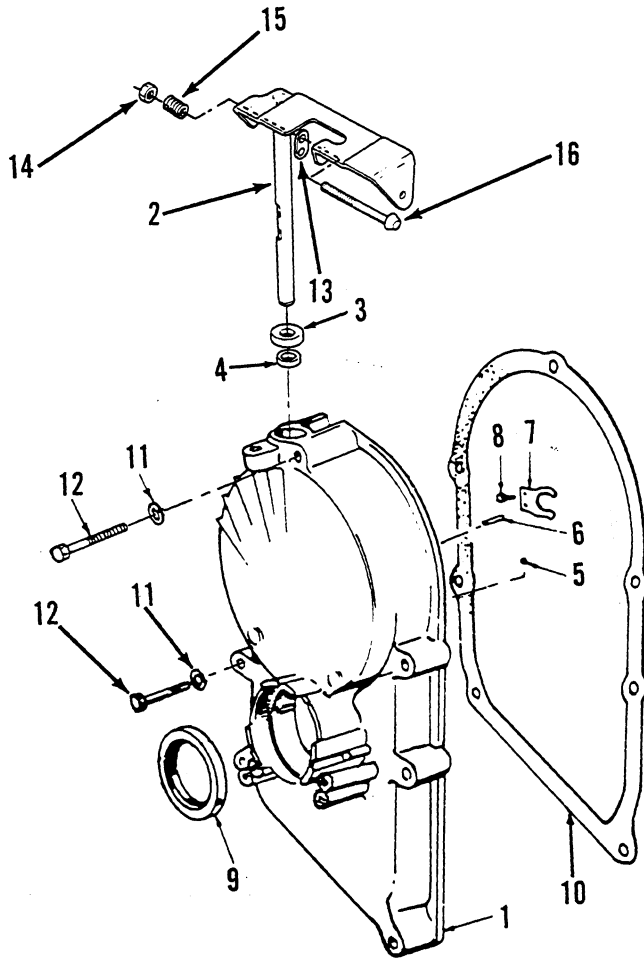
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REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-0078	1	Ring, Retaining	9	105-0376	1	Camshaft (Includes Center Pin)
3	510-0015	10	Ball, Governor	10	150-0075	1	Pin, Center - Camshaft
4	105-0332	1	Gear, Camshaft (Includes Flyball Plate And Spacer)	11	150-1519	1	Hub, Governor Cup
7	105-0541	1	Washer, Thrust	12	150-1520	1	Cup And Bushing, Governor
8	515-0001	1	Key, Woodruff				

# Gearcase

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5600-0006  
5600-0025

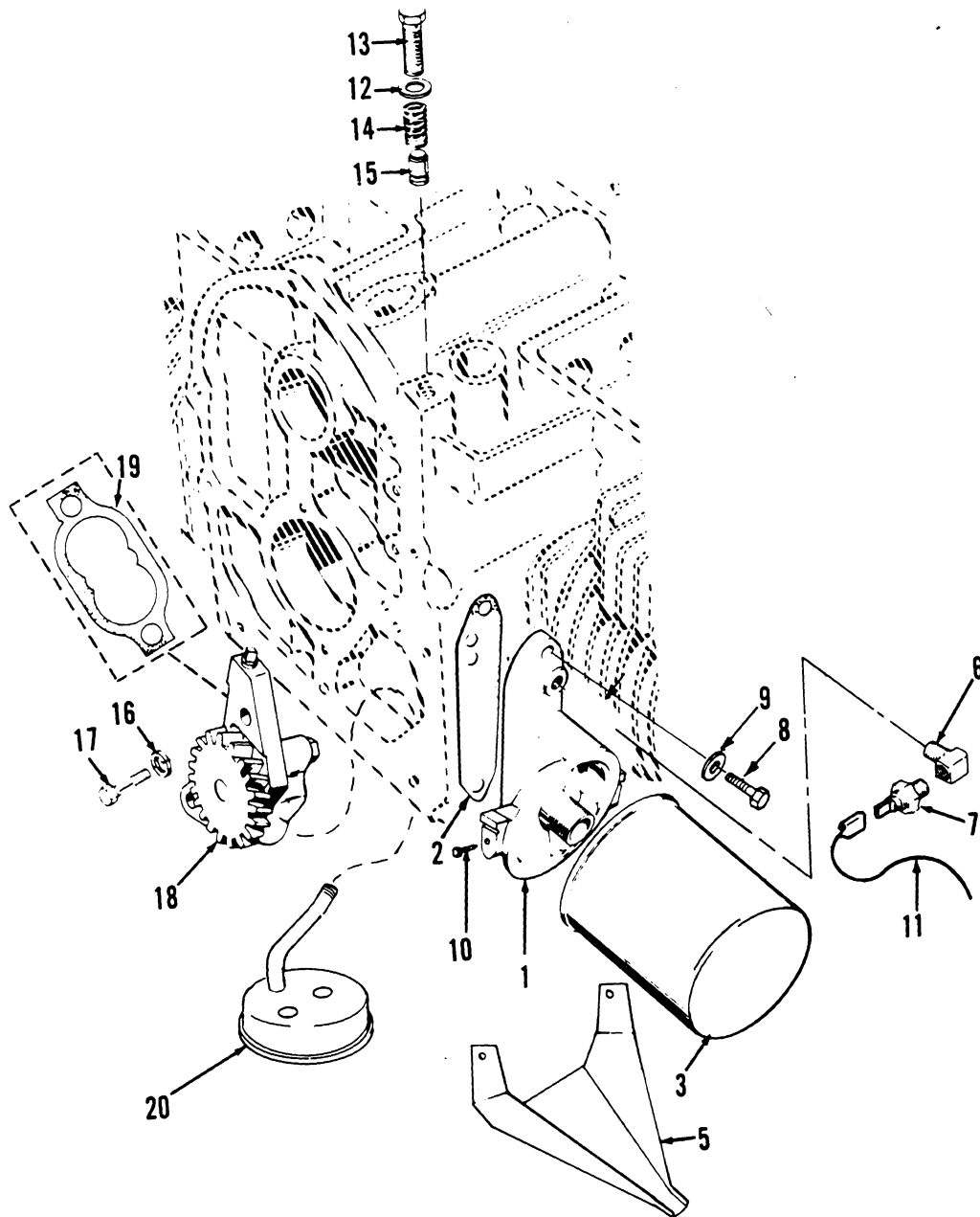


FS-1596

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	103-0772	1	Gearcase Assembly (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 (8-32 x 3/8")	15	141-0710	1	*Spring, Idle Needle
9	509-0040	1	*Seal, Oil - Crankshaft	16	820-1077	1	*Screw, Pan Head (10 - 32 x 2 - 1/2")

\* - Parts Included In 103-0772 Gearcase Assembly.

# Oil System



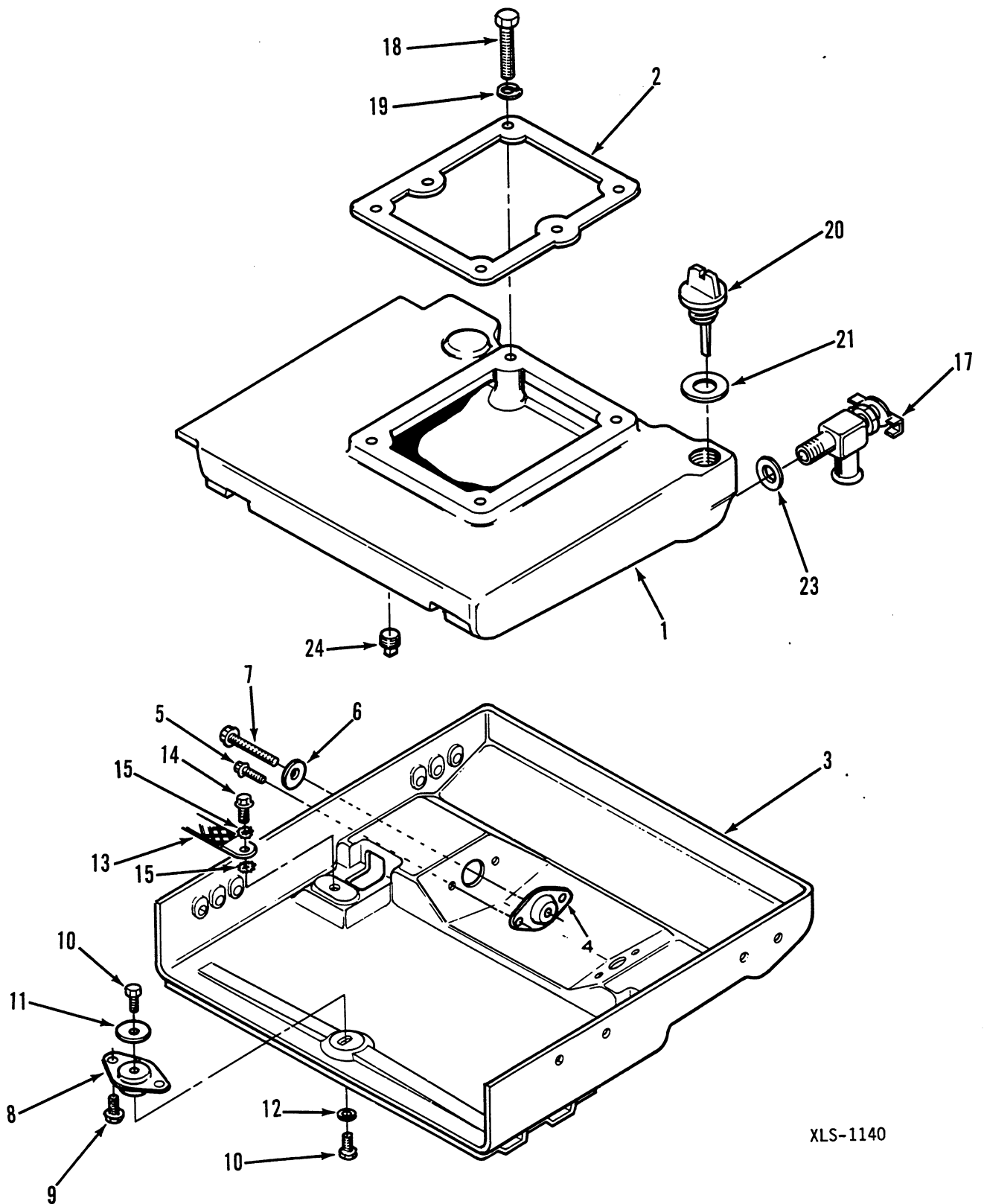
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# Oil System

5600-0001  
5600-0008  
5600-0021  
5600-0050

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	122-0320	1	Adapter, Oil Filter	11	226-2980	1	Lead, Oil Pressure Switch
2	122-0321	1	Gasket, Oil Filter Adapter Mounting	12	526-0066	1	Washer, Flat - Copper (3/8" Screw)
3	122-0645	1	Filter, Oil - Spin-On	13	801-0050	1	Screw, Cap - Hex Head (3/8 - 24 x 1")
5	122-0360	1	Drain, Oil Filter	14	120-0140	1	Spring, Oil By-Pass Valve
6	502-0053	1	Elbow, Street - 45°	15	120-0398	1	Valve, Oil By-Pass
7	309-0322	1	Switch, Low Oil Pressure (Kit)	16	850-0040	2	Washer, Lock - Spring (1/4")
8	800-0028	2	Screw, Cap - Hex Head (5/16 - 18 x 1")	17	800-0007	2	Screw, Cap - Hex Head (1/4 - 20 x 1")
9	526-0065	2	Washer, Flat - Copper (5/16" Screw)	18	120-0491	1	Pump, Oil (Components Not Sold Separately)
10	815-0194	2	Screw, Tapping - Hex Head (#10 - 32 x 3/8")	19	120-0161	1	Kit, Gasket - Oil Pump
				20	123-1616	1	Cup, Oil Pump Intake (Includes Pipe And Cup)

# Oil Base And Mounting Hardware



XLS-1140

# Oil Base And Mounting Hardware

5600-0009

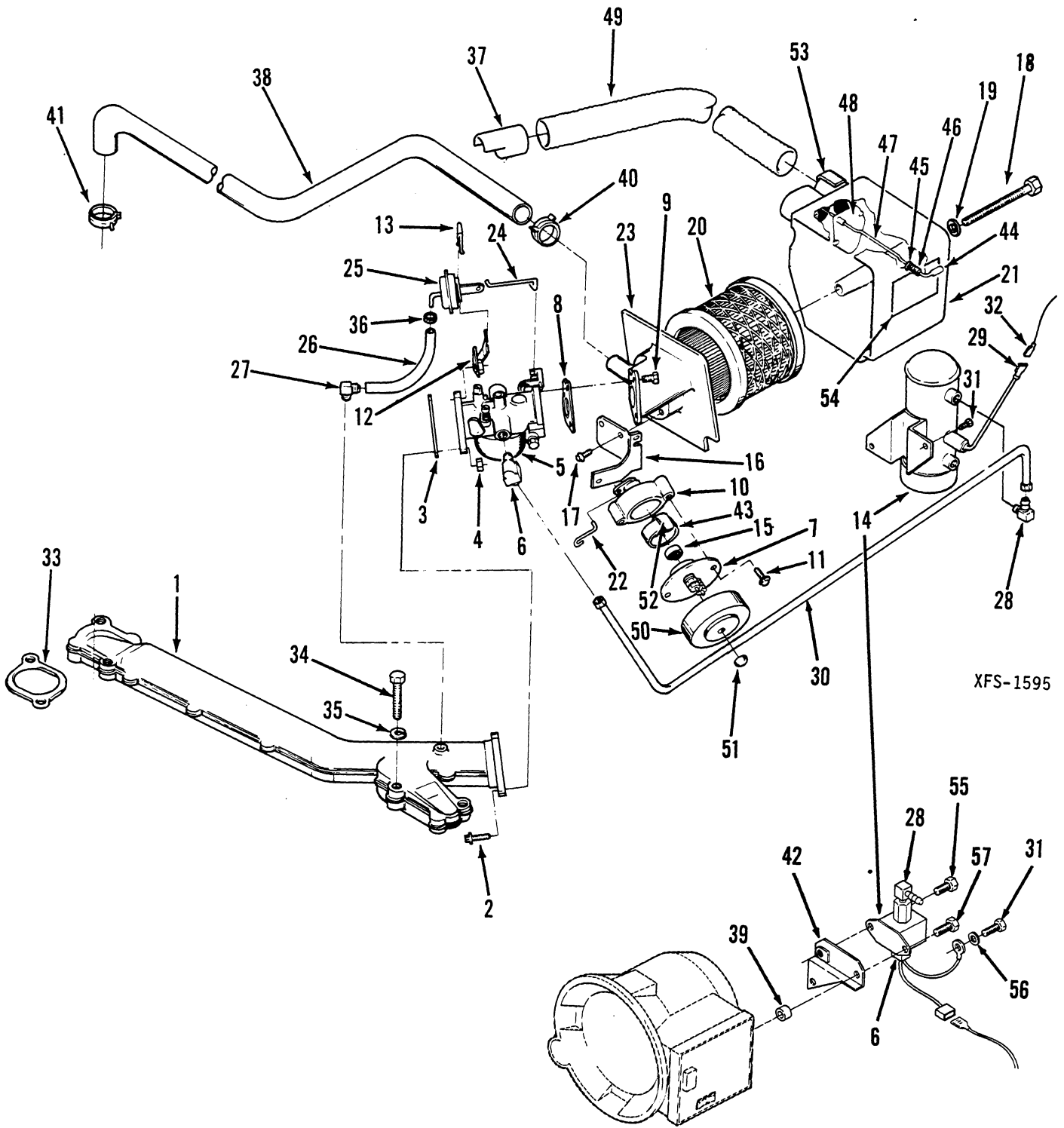
5600-0021

5600-0050

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	102-1286	1	Base, Oil	13	337-2311	1	Strap, Ground (Mounts Scroll Assembly To Drip Pan)
2	102-1200	1	Gasket, Oil Base	14			Screw, Hex Washer Head
3			Pan, Drip		821-0014	1	BGE (5/16 - 18 x 1/2")
	403-2218	1	Above Floor Models		821-0029	1	BGEL (3/8 - 16 x 3/4")
	403-2280	1	Under Floor Models	15	856-0008	2	Washer, Lock EIT ( 5/16")
4	402-0562	2	Isolator, Vibration - Generator End	17	504-0092	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 (.406 ID x 2.450 OD x .1345" Thk.)	19	850-0050	4	Washer, Lock (3/8")
7	815-0598	2	Screw, Hex Head - Lock Washer (Special)	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")	23	102-0743	1	Gasket, Oil Drain
10	821-0031	2	Screw, Hex Washer Head - Self Locking (3/8 - 16 x 3/4")	24			Plug, Oil Drain
11	526-0324	1	Washer, Flat (5/16" Screw)		102-0938	1	Rear Drain, Bottom Drain Oil Base - (1/2")
12	526-0240	1	Washer, Flat (3/8" Screw)		505-0110	1	Square Head, Bottom Drain Oil Base - (3/8")
					505-0266	1	Square Head, Countersunk (3/8" Pipe) - Bottom Drain



# Fuel System (Gasoline)



XFS-1595

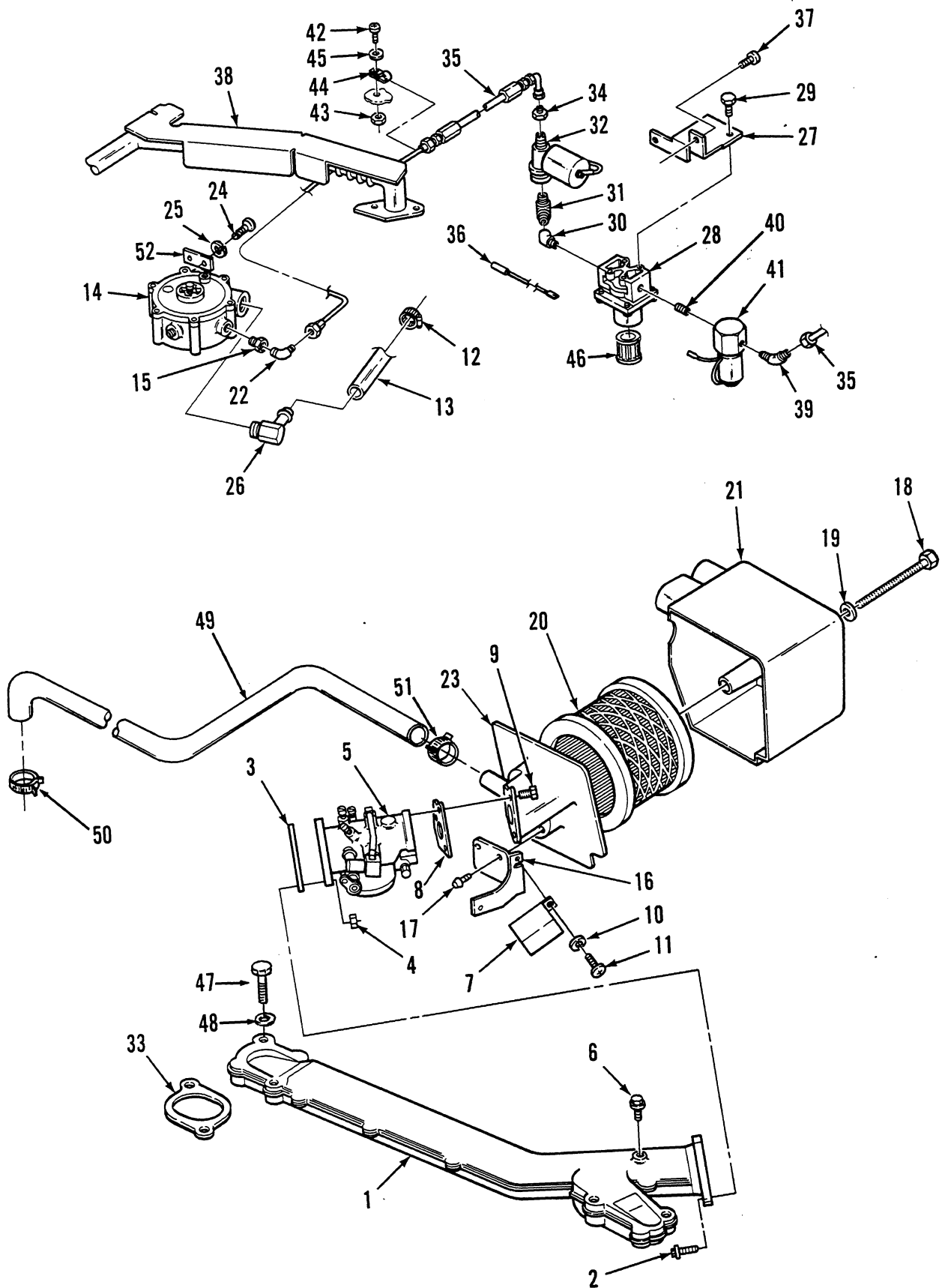
# Fuel System (Gasoline)

5600-0010  
5600-0011

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-2447	1	Manifold, Intake	16	153-0557	1	Bracket, Housing Mounting
2	815-0587	2	Screw, Hex Washer Head (Special)	17	815-0591	2	Screw, Hex Washer Head (Special)
3	141-0281	1	Gasket, Carburetor Mounting	18	800-0017	1	Screw, Cap - Hex Head (1/4 - 20 x 3 - 1/2")
4	862-0015	1	Nut, Hex (5/16 - 18)	19	526-0018	1	Washer, Flat (1/4" Screw)
5			Carburetor (Includes Mounting Gasket) (See Separate Page For Components)	20	140-1891	1	Element, Air Cleaner
	141-0926	1	Facet- Used Prior To: Engine Serial Number G863125454 Generator Serial Number G863123208 Generator Serial Number H860834744 (For Complete Carburetor Replacement, Order 146-0455)	21	140-1894	1	Housing, Air Cleaner
				22	153-0558	1	Linkage, Choke
	146-0455	1	Nikki- Begin: Engine Serial Number G863125454, Generator Serial Number G863123208, Generator S/N H860834744	23	140-1889	1	Adapter, Air Cleaner
			NOTE: The Complete Set Serial Number Appears On The Name-Plate And Is Comprised Of The Month/Year Build (e. g. G86), Assembly Plant Code (e. g. o= Minneapolis, Minnesota) And Actual 6 Digit Serial Number. The Last 6 Digits Of The Generator Set Serial Number Are Also Stamped On Top Of The Stator Housing. When a 7 Digit Serial Number Appears On The Stator Housing The First Digit Will Be The Plant Code. The Assembly Plant Code, Along With The 6 Digit Serial Number For The Engine (Not The Same As The Generator Set Serial Number), Are Stamped On The Cylinder Block Near The Breaker Box.	24	153-0577	1	Linkage, Pull-off
				25	153-0576	1	Pull-off Assembly, Choke
				26	503-1252	1	Hose, Vacuum (3/16" ID x 3" Long)
				27	502-0871	1	Fitting, Vacuum - Intake 90" Manifold To Vacuum Hose
				28	502-0313	1	Elbow, 90" (1/8 NPT x 1/4"ID)
				29	332-2431	1	Terminal, Fuel Pump Lead (.225")
				30			Line, Fuel (Includes 2 Inverted Nuts)
					149-1929	1	Use With Fuel Pump 149-1994
					149-2084	1	Use With Fuel Pump 149-2036
				31	815-0261	3	Screw, Hex Washer Head - Thd. Cutting (1/4 - 20 x 1/2")
				32	332-2572	1	Terminal, Fuel Pump Lead (.250 Recep)
				33	154-2495	2	Gasket, Intake Manifold
				34	800-0033	4	Screw, Cap - Hex Head (5/16 - 18 x 2")
				35	850-0045	4	Washer, Lock - Spring (5/16")
				36	503-1345	1	Clamp, Hose (.375" Diameter)
				37	140-1919	1	Adapter, Preheater
				38	123-1615	1	Tube, Breather
				39	134-2100	1	Spacer, Fuel Pump Bracket (Use With Fuel Pump 149-2036)
6	502-0002	1	Elbow, Inverted Male	40	503-1336	1	Clamp, Hose - Breather Tube (Fits Hose OD .875")
7	153-0555	1	Element And Cover, Choke	41	503-1337	1	Clamp, Hose - Breather Tube (Fits Hose OD 1.03")
8	140-1087	1	Gasket, Air Horn	42	149-2082	1	Bracket, Fuel Pump (Use With Fuel Pump 149-2036)
9	815-0590	3	Screw, Hex Head (Special)	43	153-0578	1	Tube, Choke Housing
10	153-0556	1	Housing Assembly, Choke (Includes Parts Marked *)	44	517-0223	1	Cap, Vinyl
	153-0563	1	*Housing, Choke	45	526-0002	1	Washer, Flat (#6 Screw)
	153-0571	1	*Washer, Insulating - Choke	46	120-0140	1	Spring, By-pass
	518-0387	1	*Ring, Retainer	47	145-0562	1	Rod, Air Inlet
	153-0567	1	*Shaft Assembly, Choke Hsg.	48	145-0561	1	Cover, Air Inlet
11	815-0592	2	Screw, Hex Washer Head (Special)	49	503-1351	1	Hose, Preheater
12	153-0561	1	Bracket, Diaphragm Mounting	50	153-0579	1	Cover, Choke Housing
13	518-0450	1	Clip, U - Diaphragm Mounting Bracket	51	870-0421	1	Nut, Cap (6 - 32)
14			Pump, Fuel - Electric	52	518-0466	1	Clip (Fits Between Choke Housing And Choke Housing Tube)
	149-1994	1	Used Prior To: Generator Set Serial Number F860825839 Generator Set S/NF863114065 (Not Interchangeable With 149-2036)	53	518-0459	1	Clip, Preheater Hose
				54	98-5335	1	Label, Preheat
	149-2036	1	Begin: Generator Set Serial Number F860825839 (During Spec C) Generator S/N F863114065	55	821-0009	1	Screw, Hex Washer Head Self-Lock (1/4 - 20 x 3/8")
15	153-0554	1	Bi-Metal, Choke	56	856-0006	1	Washer, Lock (EIT 1/4")
				57	815-0610	1	Screw, Hex Washer Head - Thread Form (1/4 - 20 x 1")

\* - Parts Included In 153-0556 Housing Assembly.

# Fuel System (LP)

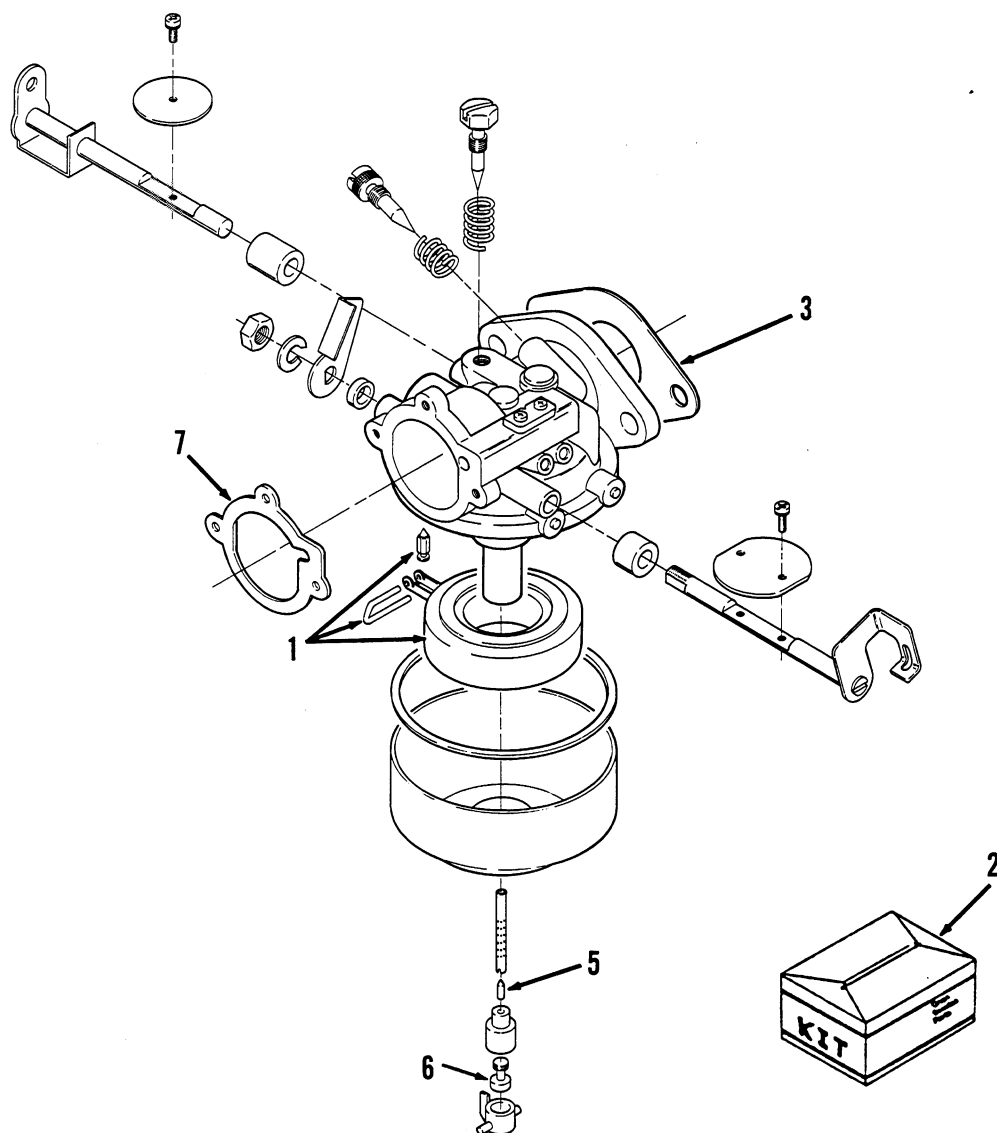


# Fuel System(LP)

5600-0011  
5600-0022

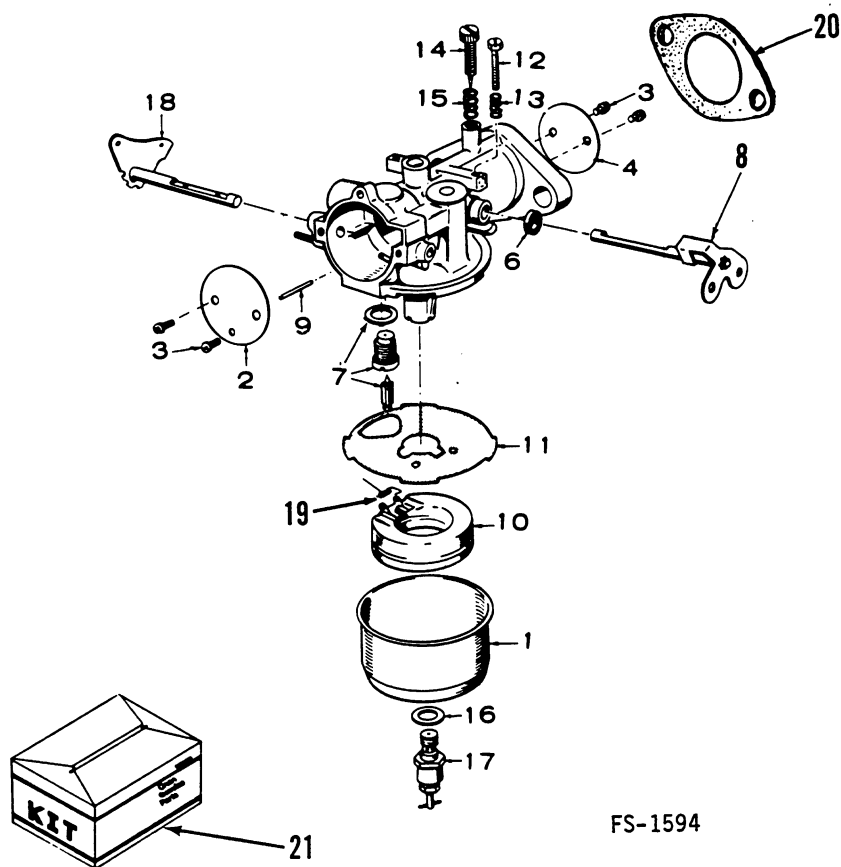
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-2447	1	Manifold, Intake	28	148-0890	1	Filter, LPG (Includes Element And O-Rings)
2	815-0587	2	Screw, Hex Washer Head (Special)	29	815-0370	2	Screw,Cap - Hex Head - Thread Form (1/4 - 20 x 1/2")
3	141-0281	1	Gasket, Carburetor Mounting	30	502-0932-01	1	Elbow, Street - 45° (1/4")
4	862-0015	2	Nut, Hex (5/16 - 18)	31	502-0054	1	Elbow, Male - 90° (1/4")
5	141-0932	1	Carburetor (See Separate Page For Components)	32	307-2478	1	Solenoid, Fuel Lock Assy.
6	505-0274	1	Plug, Pipe - Hex (1/8")	33	154-1446	2	Gasket, Intake Manifold
7	307-1886	1	Relay, Ignition	34	502-0928-01	1	Adapter, Reducer
8	140-1087	1	Gasket, Air Horn	35	501-0497	1	Line, Assembly, Fuel
9	815-0590	3	Screw, Cap - Hex Head (Special)	36	336-9679	1	Lead, Filter Mounting Bracket
10	526-0008	1	Washer, Flat (#10 Screw)	37	815-0261	2	Screw, Hex Washer Head (1/4 - 20 x 1/2")
11	815-0531	1	Screw, Hex Washer Head (Special)	38	154-2627	1	Manifold Assy, Exhaust (Includes Heat Shield And Fuel Line)
12	503-0183	2	Clamp, Hose (9/16 to 1 - 1/16")	39	502-0965-01	1	Elbow, Reducing - 45°
13	503-1365	1	Hose, Fuel (7 - 1/2" Long)	40	502-0929-01	1	Nipple, Close
14	148-0893	1	Regulator	41	307-2501	1	Valve, Fuel Shut-off
15	502-0927-01	1	Bushing, Reducer (3/8 x 1/4")	42	815-0176	1	Screw, Hex Head - Machine (8 - 32 x .50)
16	153-0557	1	Bracket, Housing Mounting	43	870-0221	1	Nut, Hex (8 - 32)
17	815-0591	2	Screw, Hex Washer Head (Special)	44	503-1190	1	Clamp, Hose
18	800-0017	1	Screw, Cap - Hex Head (1/4 - 20 x 3 - 1/2")	45	526-0003	1	Washer, Flat (#8 Screw)
19	526-0018	1	Washer, Flat (1/4" Screw)		149-2032	1	Bracket, Fuel Line - LP (Not Shown)
20	140-1891	1	Element, Air Cleaner	46	148-0898	1	Element, Fuel Filter
21	140-1894	1	Housing, Air Cleaner	47	800-0033	4	Screw, Cap - Hex Head (5/16 - 18 x 2")
22	502-0923-01	1	Elbow, Reducing - 90° (1/4")	48	850-0045	4	Washer, Lock (5/16")
23	140-1889	1	Adapter, Air Cleaner	49	123-1615	1	Tube, Breather
24	815-0647	2	Screw, Hex Washer Head (1/4 - 20 x 5/8")	50	503-0183	1	Clamp, Hose - Breather Tube (1.13" Dia.)
25	850-0040	2	Washer, Lock (1/4")	51	503-1133	1	Clamp, Hose - Breather Tube (.900" Dia.)
26	502-0935	1	Elbow, 90°	52	148-0897	1	Washer, Regulator Mounting
27	148-0896	1	Bracket, Filter Mounting				

# 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	Float Package (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

# Carburetor Components (Gasoline) Facet

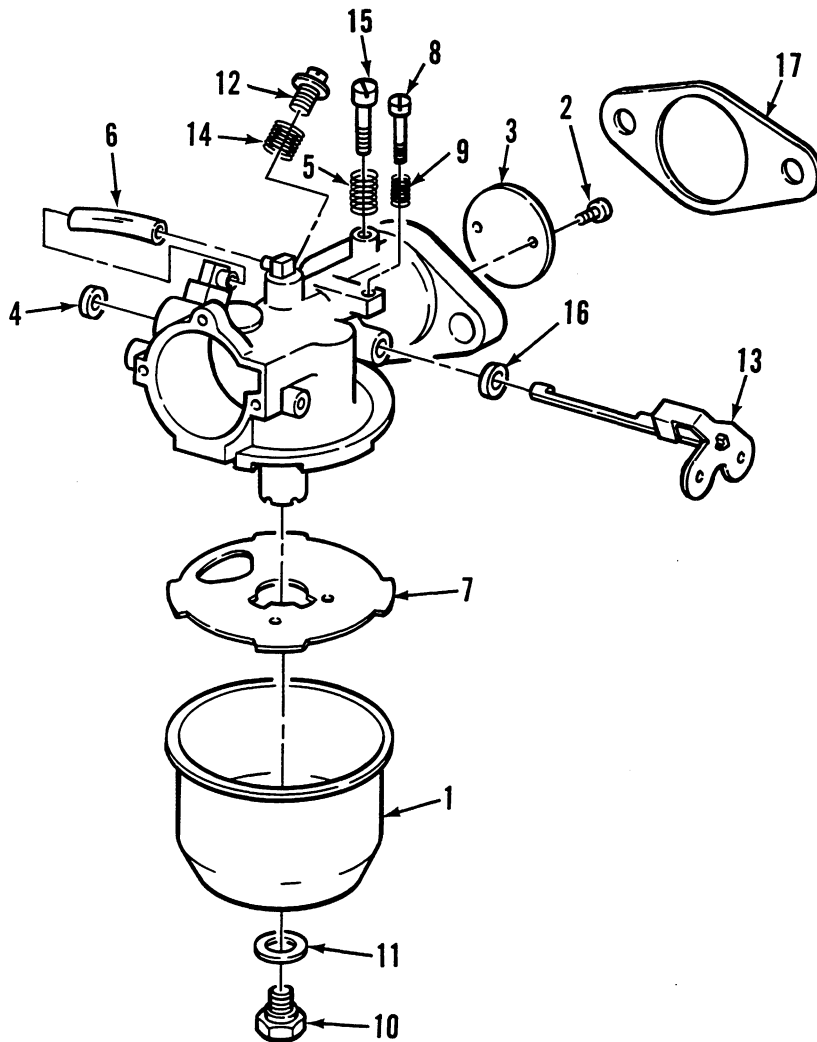


FS-1594

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	141-0926	1	Carburetor, Complete Gasoline - Electric Choke	13	141-0711	1	Spring, Throttle Stop
1	141-0708	1	Bowl, Fuel	14	141-0713	1	*Needle, Idle Adjusting
2	141-0741	1	Plate, Choke	15	141-0710	1	Spring, Idle Adjusting Needle
3	141-0698	4	Screw, Round Head With Washer	16	141-0077	1	*#Washer, Main Jet
4	141-0919	1	Plate, Throttle	17	141-0942	1	Jet, Main (Adjustable) (Includes Packing)
6	141-0924	1	*#Seal, Rubber	18	141-0921	1	Shaft, Choke
7	141-0923	1	*#Seal Assembly, Valve	19	141-0799	1	*Spring, Fuel Float
8	141-0920	1	Shaft, Throttle	20	141-0281	1	*#Gasket, Carburetor Flange
9	141-0703	1	*Shaft, Float Pivot	21			Kit
10	141-0702	1	Float, Carburetor		141-0927	1	Carburetor Repair (Includes Parts Marked*)
11	141-0701	1	*#Gasket, Bowl		141-0928	1	Gasket (Includes Parts Marked#)
12	141-0700	1	Screw, Throttle Stop				

\* - Included In Repair Kit 141-0927.  
# - Included In Gasket Kit 141-0928.

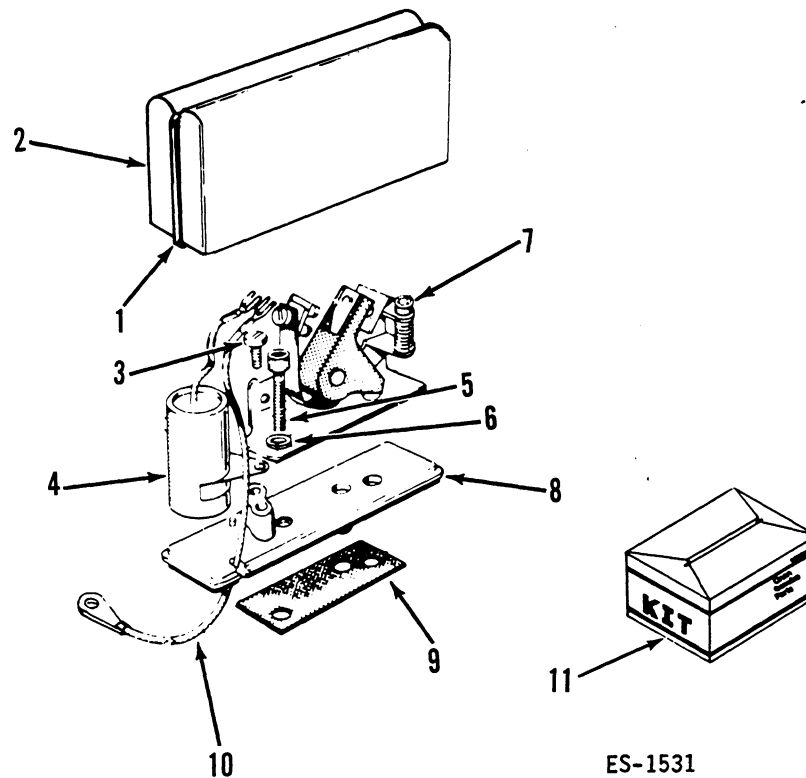
# Carburetor Components(LP)



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 Assembly
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

# Breaker Box

5600-0015



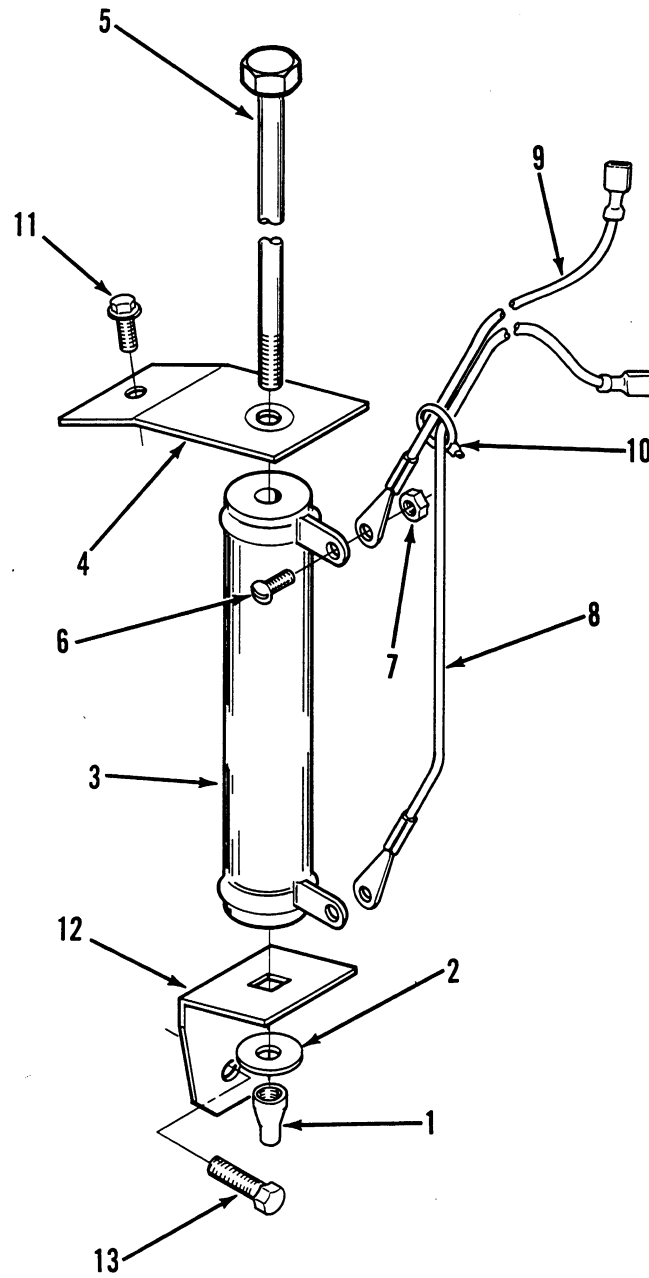
ES-1531

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	160-1325	1	Box, Assembly, Breaker Complete (Includes Parts Marked *)	6	850-0038	2	*Washer, Lock - Spring (1/4")
1	160-1317	1	*Clip, Breaker Box Cover	7	160-1183	1	*Point Assembly, Breaker
2	160-1316	1	*Cover, Breaker Box	8	160-1314	1	*Base, Breaker Box
3	815-0358	1	*Screw, Hex Head - Slotted Thread Form (#8 - 32 x 5/16")	9	160-1150	1	*Gasket, Breaker Box
4	312-0246	1	*Condenser, Ignition	10	336-2378	1	Lead, Breaker Box To Coil
5	802-0034	2	*Screw, Cap - Socket Head (1/4 - 20 x 3/4")	11	160-1328	1	Kit, Ignition Tune-up (Includes Points And Condenser)

\* - Parts Included In 160-1325 Breaker Box Assembly.



# Resistor Assembly



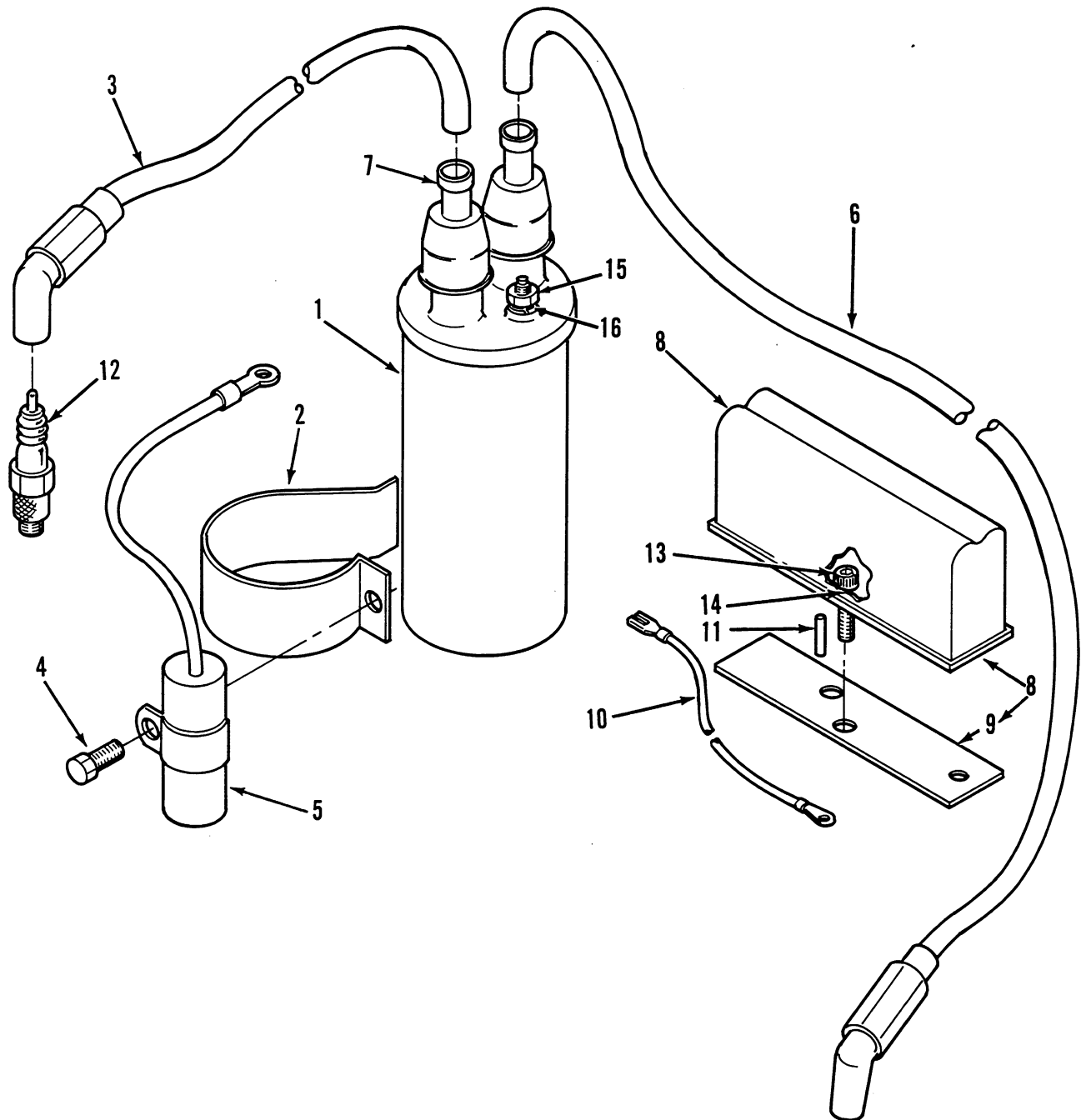
ES-1533

# Resistor Assembly

5600-0016  
5600-0052

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0196	1	Nut, Insulation (#8)	7	870-1183	2	Nut, Hex (Special)
2	304-0015	1	Washer, Centering	8	226-2754	1	Lead, 7" Long
3	304-0044	1	Resistor, Fixed - 2.5 Ohms 50 Watts	9	226-2753	1	Lead, 3" Long
4	304-0773	1	Bracket, Resistor Mounting	10	332-0942	2	Tie, Cable
5	815-0583	1	Screw, Cap - Hex Head (Special)	11	815-0340	1	Screw, Hex Washer Head Thread Form (10 - 32 x 3/8")
6	812-0061	2	Screw, Round Head (6 - 32 x 3/8")	12	304-0772	1	Bracket, Resistor Mounting Forming (1/4 - 20 x 1/2")
				13	815-0370	1	Screw, Hex Head - Thread Forming (1/4 - 20 x 1/2")

## Ignition System



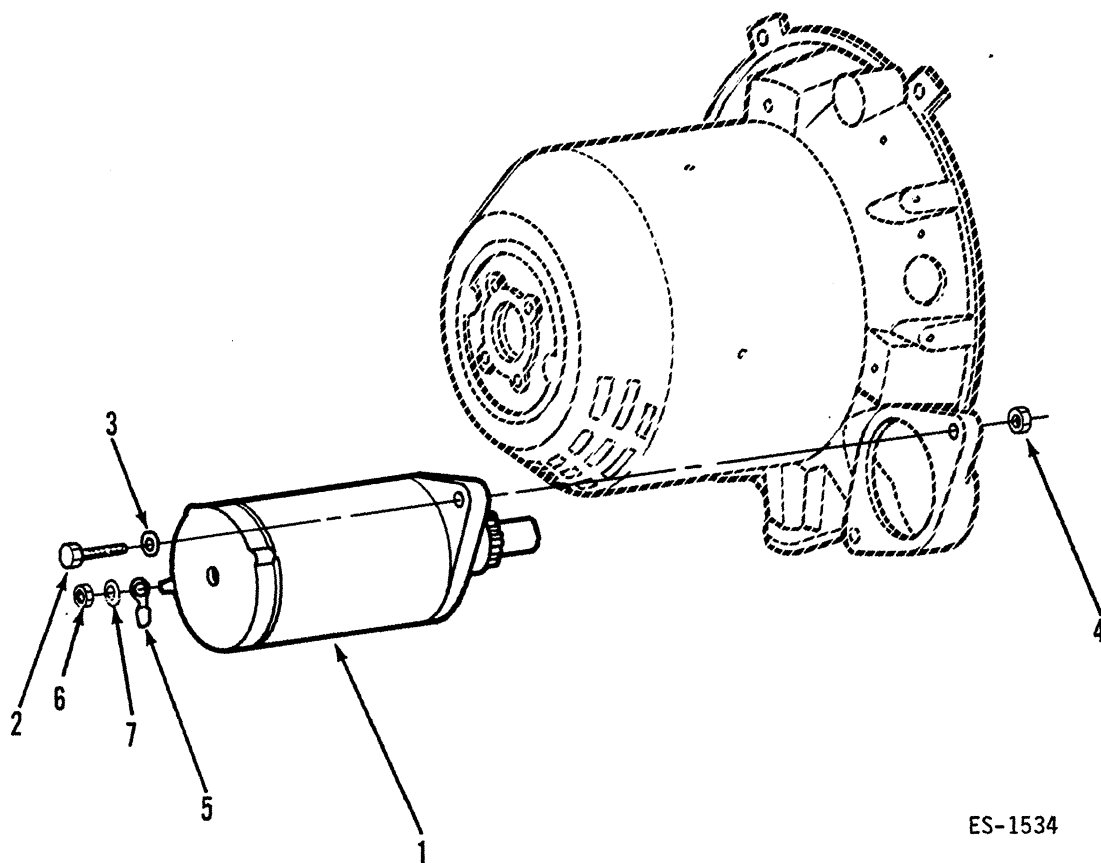
XES-1532

# Ignition System

5600-0015  
5600-0016

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	166-0772	1	Coil, Ignition	9	160-1150	1	Gasket, Breaker Box Mounting
2	166-0747	1	Clamp, Coil	10	336-2378	1	Lead, Coil To Breaker Box Mounting
3	167-1615-01	1	Cable, Spark Plug (9" Long) (90° Boot)	11	160-1151	1	Plunger, Breaker Points
4	815-0370	1	Screw, Hex Head Thread Form (1/4 x 1/2")	12	167-0263	2	Plug, Spark
5	312-0249	1	Condenser	13	802-0034	2	Screw, Cap - Socket Head (1/4 - 20 x 3/4")
6	167-1615-06	1	Cable, Spark Plug (26" Long) (90° Boot)	14	850-0038	2	Washer, Lock - Spring (1/4")
7	160-0558	2	Nipple, Spark Plug Cable	15	166-0554	2	Nut, Hex (8 MM)
8	160-1303	1	Box Assembly, Breaker (See Separate Page For Components) (Includes Mounting Gasket)	16	850-2005	2	Washer, Lock (8 MM)

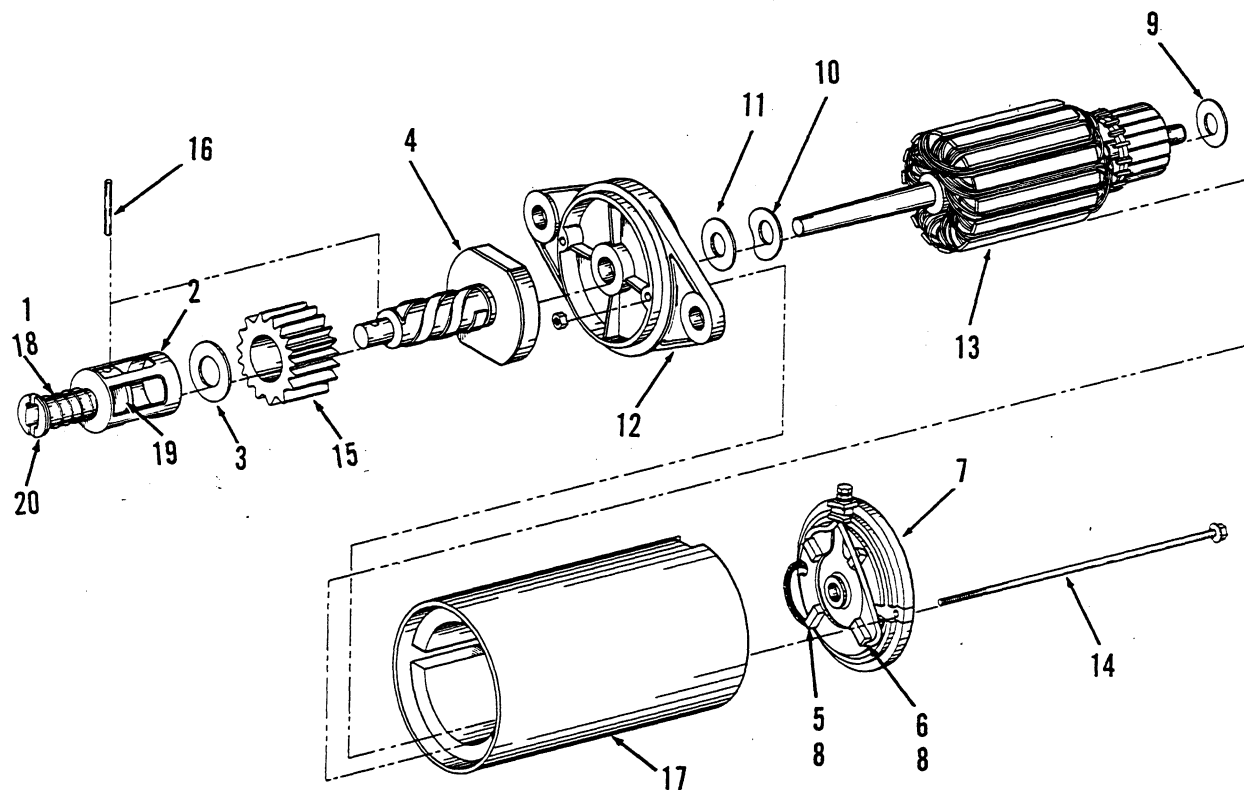
## Starter



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Starter, 12 Volt (See Separate Page For Components)
	191-1599	1	Spec A
	191-1667	1	Begin Spec B
2	800-0052	2	Screw, Cap - Hex Head (3/8 - 16 x 1 - 1/2")

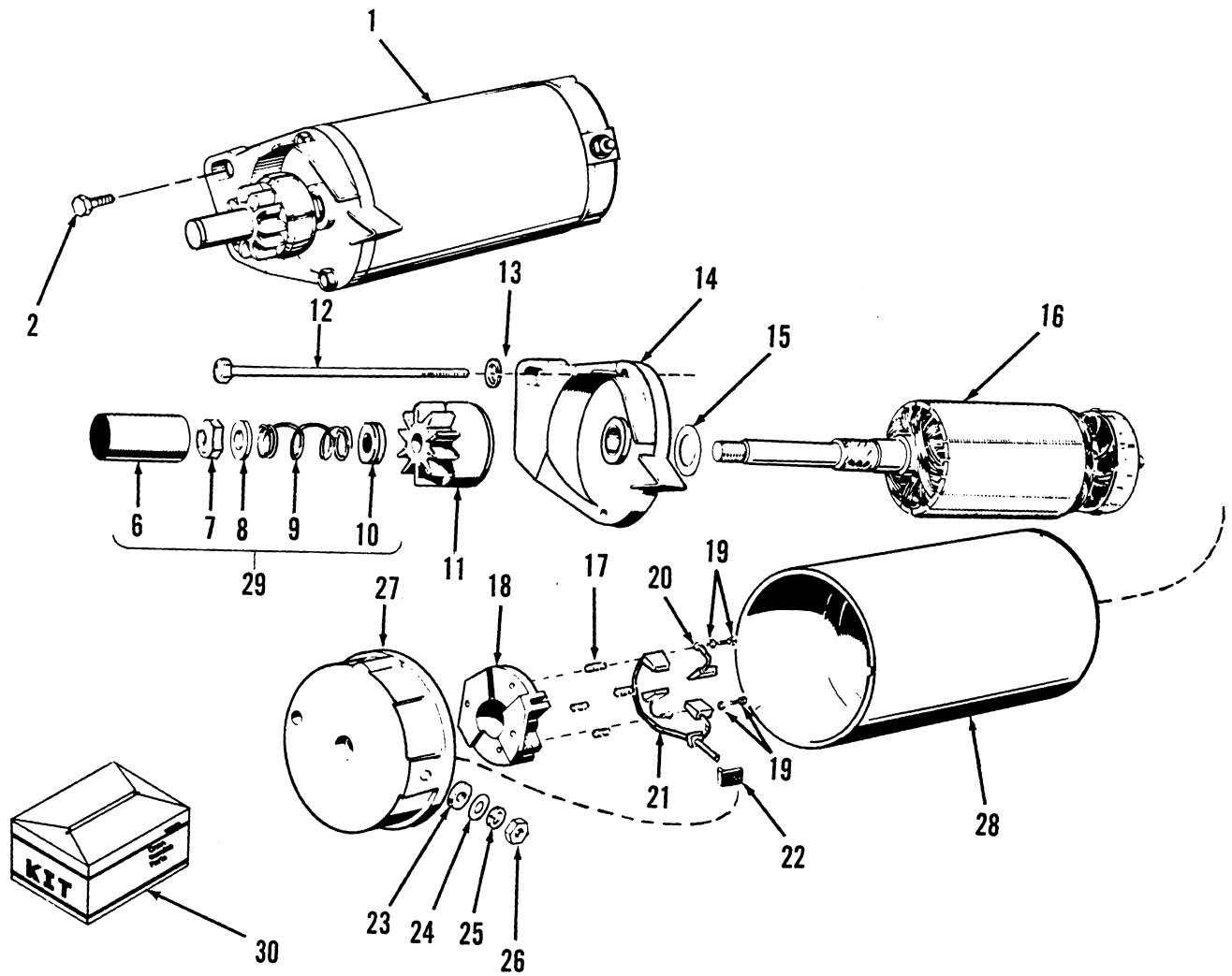
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	850-0050	2	Washer, Lock (3/8")
4	862-0003	2	Nut, Hex (3/8 - 16)
5	332-2748	1	Terminal, Ring (.250)
6	862-0001	1	Nut, Hex (1/4 - 20)
7	850-0040	1	Washer, Lock (1/4)

# **Starter Components** **Begin Spec B**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	191-1667	1	Motor, Starter (Complete)	9	191-1779	1	Washer, Commutator End
1	191-1817	1	Cover, Spring	10	191-1778	1	Washer, Spring
2	191-1818	1	Retainer, Clutch	11	191-1777	1	Washer, Flat
3	191-1785	1	Washer	12	191-1776	1	Cap Assembly, Drive End
4	191-1784	1	Clutch And Spline Assembly	13	191-1789	1	Armature
5	191-1783	2	Brush And Terminal Assembly (Negative)	14	191-1788	1	Bolt, Thru-Starter
6	191-1782	2	Brush And Terminal Assembly (Positive)	15	191-1819	1	Gear, Starter
7	191-1781	1	Cap, End (Includes Brushes)	16	191-1786	1	Pin, Roll
8	191-1780	4	Spring Set, Brush	17	NFS	1	Housing, Starter Motor
				18	191-1820	1	Spring, Pinion
				19	191-1821	1	Retainer, Spring
				20	191-1822	1	Washer

# Starter Components - Spec A



ES-1216-1

# Starter Components - Spec A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191-1599	1	Motor, Starter (Complete)	20	NFS	2	+*Brush, Ground
2	815-0570	2	Screw, Cap - Hex Washer Head (Special)	21	NFS	1	+*Stud And Brush Assembly, Input
6	NFS	1	#Cover, Dust	22	NFS	1	+Bushing, Insulation - Input Stud
7	NFS	1	#Nut, Stop	23	NFS	1	+Washer, Insulation - Input Stud
8	NFS	1	#Washer, Stop Nut	24	NFS	1	+Washer, Flat - Input Stud
9	NFS	1	#Spring, Anti-drift	25	NFS	1	+Washer, Lock - Input Stud
10	NFS	1	#Spacer, Dust Cover	26	NFS	1	+Nut, Securing - Input Stud
11	191-1156	1	Drive Assembly	27	191-1040	1	Cap Assy, Commutator (Includes Parts Marked +)
12	191-1048	2	Screw, Cap - Hex Head(Special)	28	NFS	1	Housing, Starter Motor
13	850-0040	2	Washer, Lock (1/4")	29	191-1359	1	Cover Assy, Dust (Includes Parts Marked #)
14	191-1633	1	Cap Assy, Drive End	30	191-1041	1	Repair Kit, Brush, Spring And Stud (Includes Parts Marked *)
15	191-1038	1	Washer, Armature Thrust				
16	191-1039	1	Armature				
17	NFS	4	+*Spring, Brush				
18	NFS	1	+Holder, Brush				
19	NFS	2	+Screw And Lockwasher				

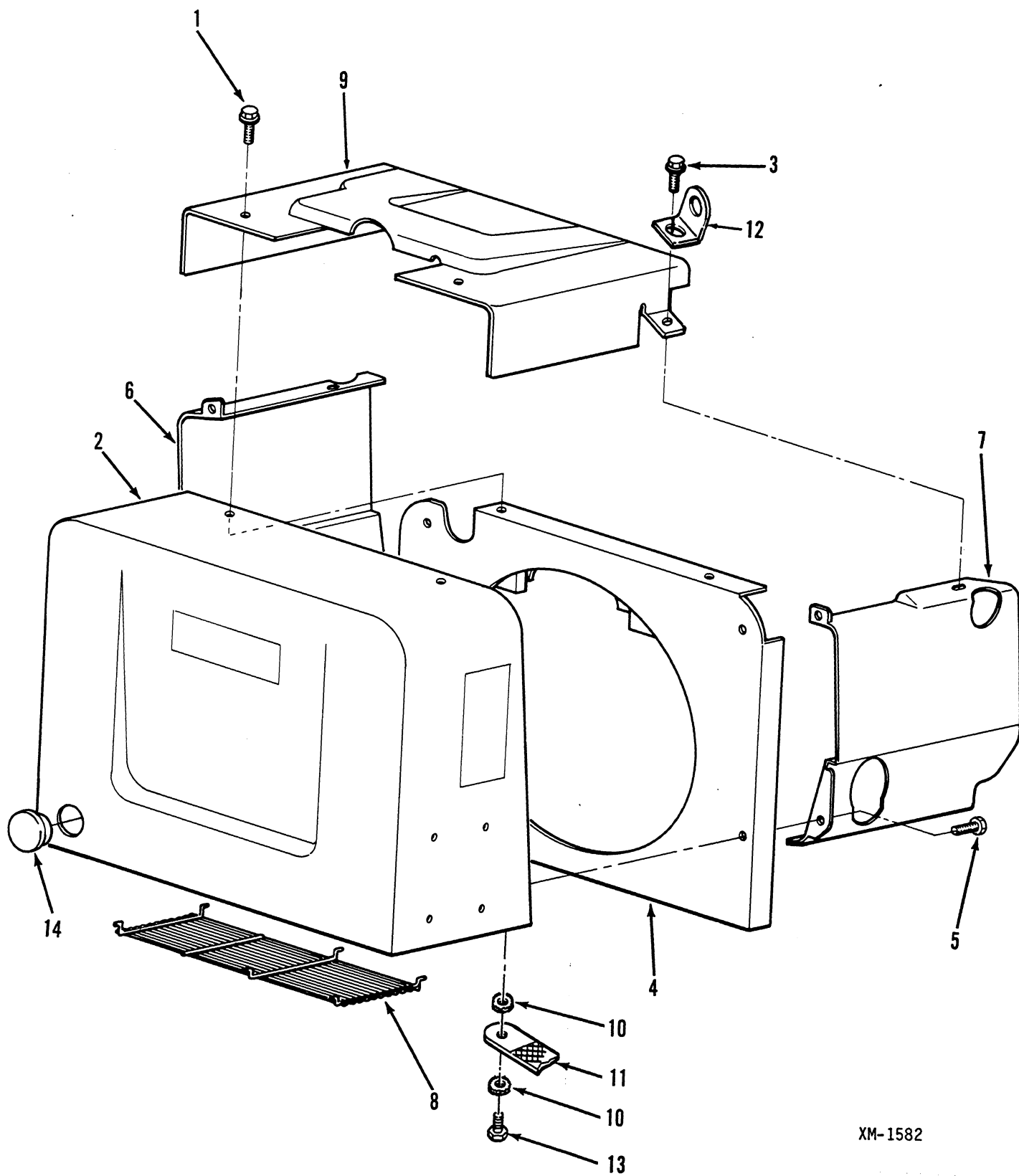
+ - Included In The 191-1040 Cap Assembly.

\* - Included In The 191-1041 Brush, Spring And Stud Kit.

# - Included In The 191-1359 Dust Cover Assembly.



# Air Housing



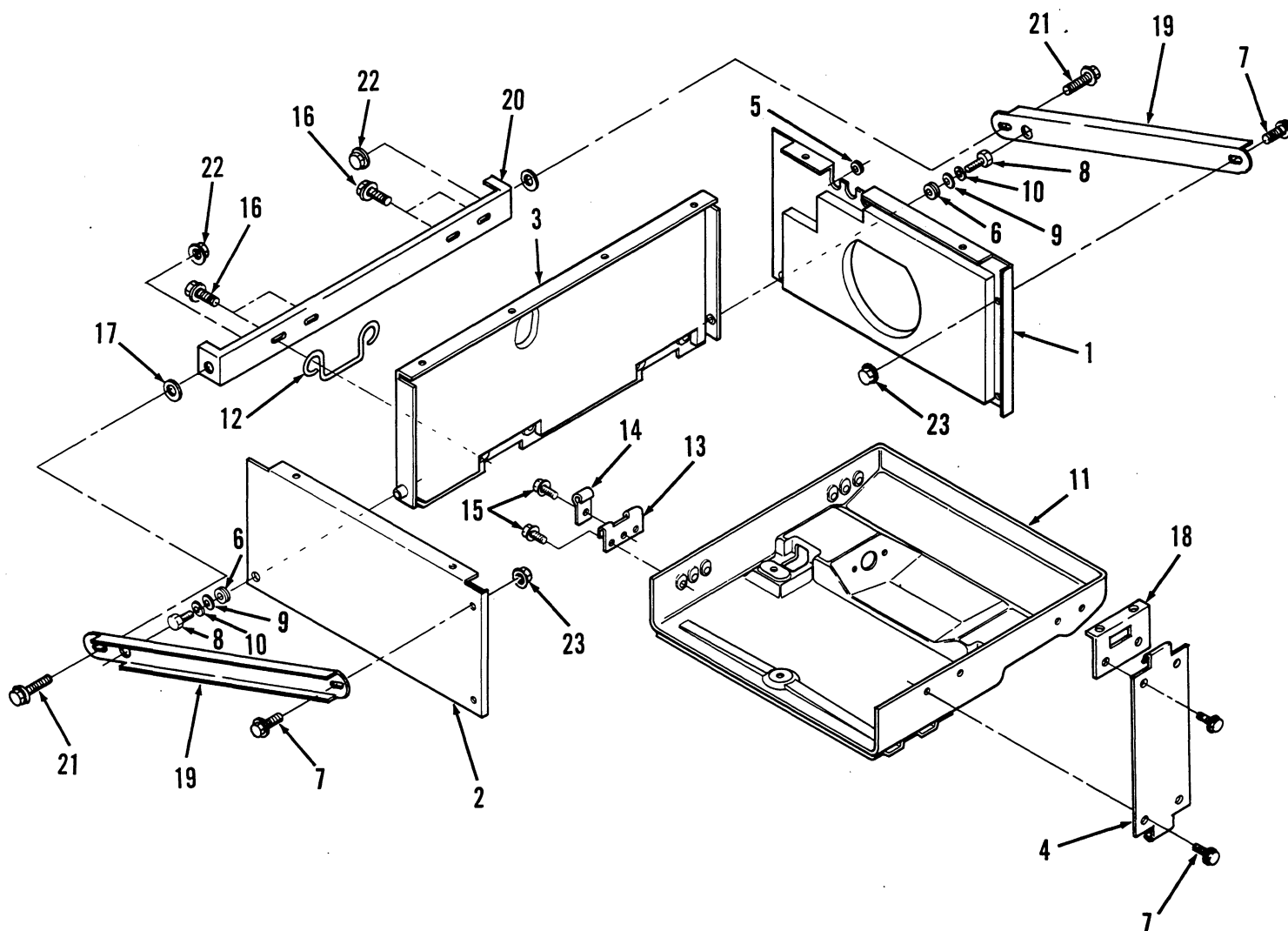
XM-1582

# Air Housing

5600-0013  
5600-0017  
5600-0018  
5600-0019  
5600-0051

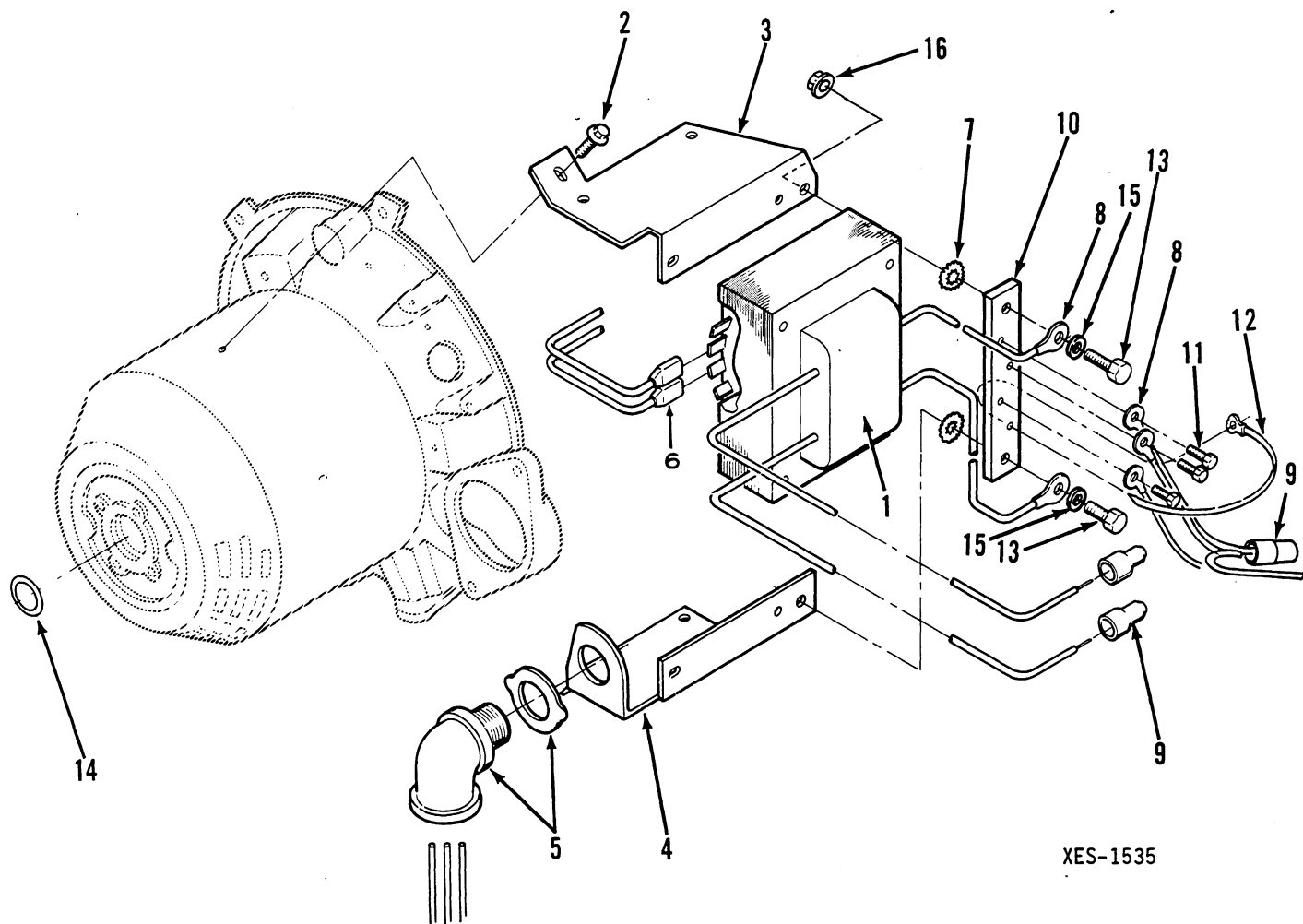
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0009	11	Screw, Hex Washer Head Self-locking (1/4 - 20 x 3/8")	6	134-4353	1	Housing, Cylinder Air - Left
				7	134-4352	1	Housing, Cylinder Air - Right
2			Scroll Assembly (Includes Baffle)	8	134-4348	1	Guard, Scroll
	134-4345	1	Above Floor Model	9	155-2040	1	Shield, Noise - Assembly (BGE Sets Only)
	134-4463	1	Under Floor Model	10	856-0010	2	Washer, Lock (EIT - 3/8")
3			Screw, Hex Washer Head Self-locking	11	337-2311	1	Strap, Ground (Mounts Scroll Assembly To Drip Pan)
	821-0016	2	4.0 BGE/BGEL (5/16 - 18 x 3/4")	12	403-1523	2	Bracket, Lifting
	821-0014	2	3.5 BGE (5/16 - 18 x 1/2")	13	800-0048	1	Screw, Cap - Hex Head (3/8 - 16 x 3/4")
4	134-4354	1	Backplate, Scroll	14	517-0129	1	Plug, Dot Button - Use With Above Floor Models - Scroll Assembly 134-4345)
5	815-0261	2	Screw, Hex Head - Tapping Cylinder Air Housing (Right Hand) (1/4 - 20 x 1/2") (1/4 - 20 x 1/2")				

# Housing - Below Floor Models



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-3332	1	Panel Assembly Housing (Right Hand)	12	406-0566	2	Pin, Hinge
2	405-3333	1	Panel Assembly Housing (Left Hand)	13	406-0567	2	Plate, Hinge
3	405-3334	1	Panel Assembly Housing (Rear)	14	406-0568	2	Support, Hinge
4	405-3453	1	Support - Housing	15	821-0010	6	Screw, Hex Washer Head - Lock (1/4 - 20 x .50)
5	508-0071	3	Grommet, Rubber	16	821-0031	4	Screw, Hex Washer Head - Lock (3/8 - 16 x .75)
6	508-0008	2	Grommet, Rubber	17	526-1518	4	Washer, Flat (7/16" Screw)
7	821-0014	6	Screw, Hex Washer Head - Self Locking (5/16 - 18 x .50)	18	405-3405	1	Bracket, Housing
8	800-0002	2	Screw, Cap - Hex Head (1/4 - 20 x .38)	19	405-3611	2	Brace, Side (22.2" Long)
9	526-0030	2	Washer, Flat (3/8" Screw)	20	405-3612	1	Brace, Rear (27.35" Long)
10	850-0040	2	Washer, Lock (1/4)	21	821-0033	2	Screw, Hex Head - Lock (7/16 - 14 x .75")
11	403-2280	1	Pan, Drip	22	870-0437	2	Nut, Hex (7/16 - 14)
				23	870-0257	2	Nut, Hex (5/16 - 18)

# Transformer Regulator

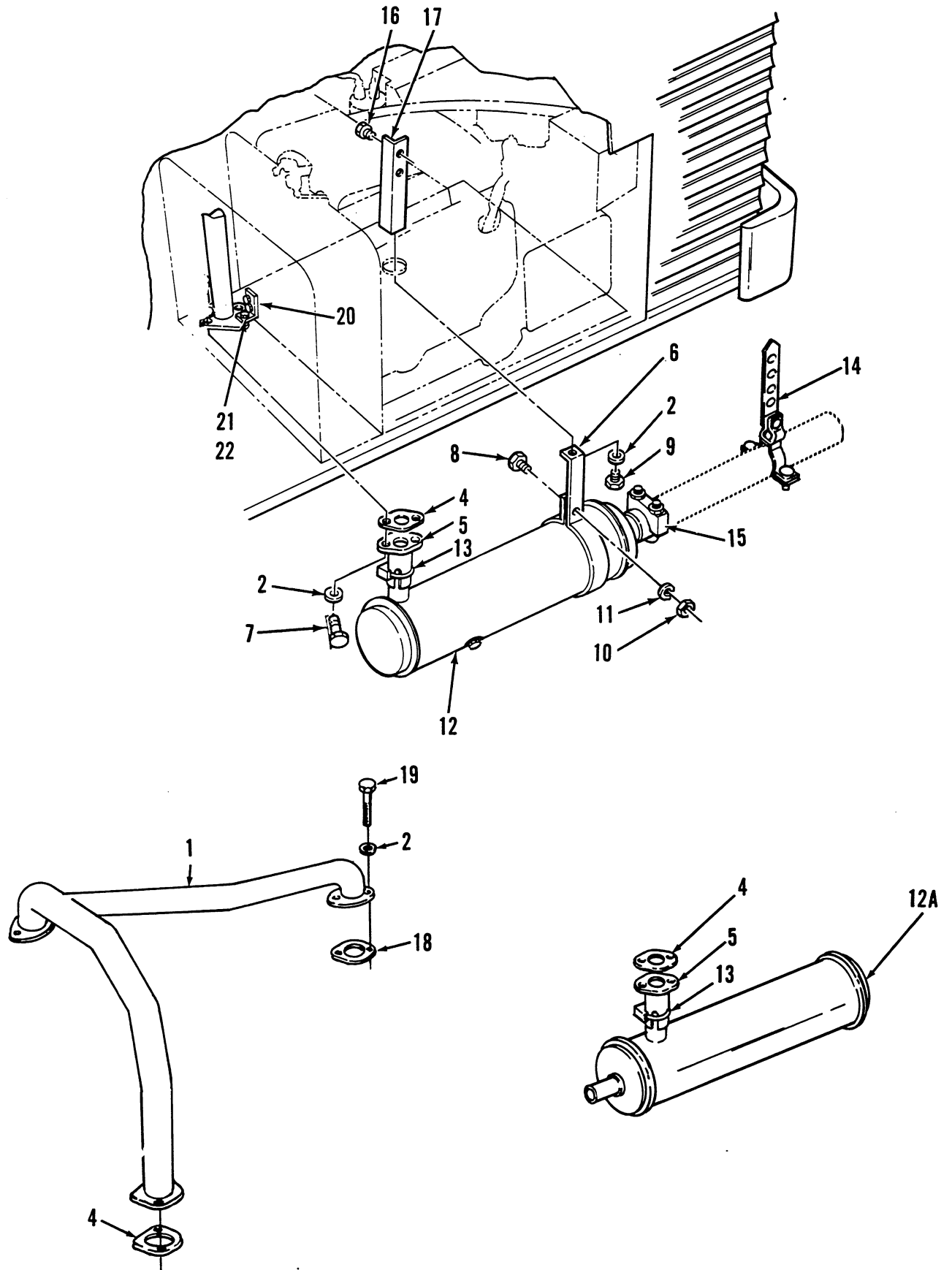


XES-1535

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer-Regulator (Includes Parts Marked*)	7	856-0008	2	Washer, Lock - EIT (5/16")
	315-0605	1	60 Hertz - 120 Volt	8	332-0046	2	Terminal, Ring (.312)
	315-0646	1	50 Hertz - 120/240 Volt	9			Cap, Insulating
	315-0645	1	50 Hertz - 110/220 Volt		332-2699	3	4.0 BGE/BGEL
2			Screw, Hex Washer Head - Thread Form		898-1193-03	6	3.5 BGE
	815-0337	3	BGE (1/4 - 20 x 3/4")	10	337-2229	1	Bar, Bus (4 - 1/4" Long)
	815-0290	2	BGEL (1/4 - 20 x 5/8")	11	815-0194	2	Screw, Cap - Hex Head (10 - 32 x .38)
			3.5 BGE, Begin Spec C	12	332-0941	2	Tie, Cable
3	315-0574	1	*Mounting Bracket, Transformer - Regulator (Upper)	13			Screw, Cap - Hex Head BGE 60 Hertz (1/4 - 20 x 5/8")
4	315-0575	1	*Mounting Bracket, Transformer - Regulator (Lower)		815-0610	2	BGE, BGEL 50 Hertz (1/4 - 20 x 1") - Also BGEL 60 Hertz
5	331-0009	1	Connector (3/4" x 90°)	14	509-0196	1	O-Ring, Stator Housing
6	332-1993	2	Terminal, Receptacle (.250)	15	526-0018	2	Washer, Flat (1/4" Screw)
				16	870-0433-03	2	Nut, Push-on (1/4 - 20)

\* - Parts Included In Transformer-Regulator Assembly.

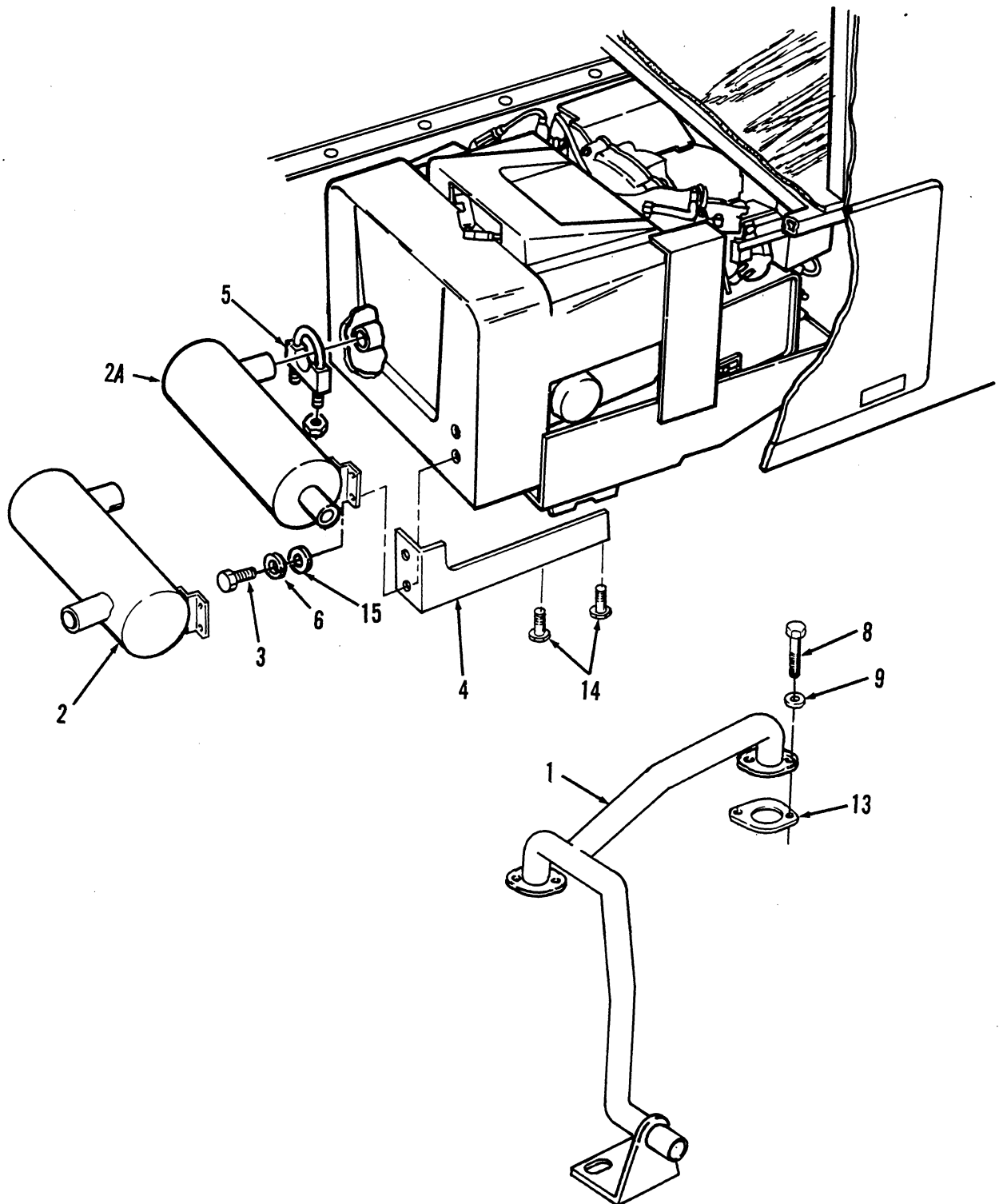
# Exhaust System - Above Floor Models Spec A



# Exhaust System - Above Floor Models Spec A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-2462	1	Manifold, Exhaust	11	850-0040	1	Washer, Lock (1/4")
			Bottom Outlet	12	155-1258	1	Muffler, Spark Arrestor
2	850-0045	7	Washer, Lock (5/16")				End Outlet, Side Inlet
3	526-0018	1	Washer, Flat (1/4" Screw)	12A	155-1485	1	Muffler, Spark Arrestor
4	154-2061	1	Gasket, Exhaust				Same End Inlet, Outlet
5	154-2469	1	Adapter, Exhaust (Flange	13	155-1239	1	Clamp, Muffler
			Type) - 2.44" Long	14	155-2174	1	Hanger, Exhaust
6	155-2025	1	Strap, Muffler (5.77" Long)	15	155-1015	1	Clamp, Muffler
7			Screw, Cap - Hex Head	16	815-0499	2	Screw, Hex Washer Head -
	800-0030	2	5/16 - 18 x 1 - 1/4"				Thread Form (1/4 - 20 x 5/8")
	800-0730	2	5/16 - 18 x 1"	17	155-2026	1	Strap, Muffler
8	800-0007	1	Screw, Cap - Hex Head	18	154-1725	2	Gasket, Exhaust Manifold
			(1/4 - 20 x 1")	19	800-0026	4	Screw, Cap - Hex Head
9	800-0026	1	Screw, Cap - Hex Head				(5/16 - 18 x 3/4")
			(5/16 - 18 x 3/4")	20	155-2036	1	Bracket, Exhaust
10	862-0001	1	Nut, Hex (1/4 - 20)	21	800-0005	1	Screw, Cap - Hex Head
							(1/4 - 20 x 3/4")
				22	526-0018	1	Washer, Flat (1/4" Screw)

Exhaust System - Below Floor Models  
Spec A



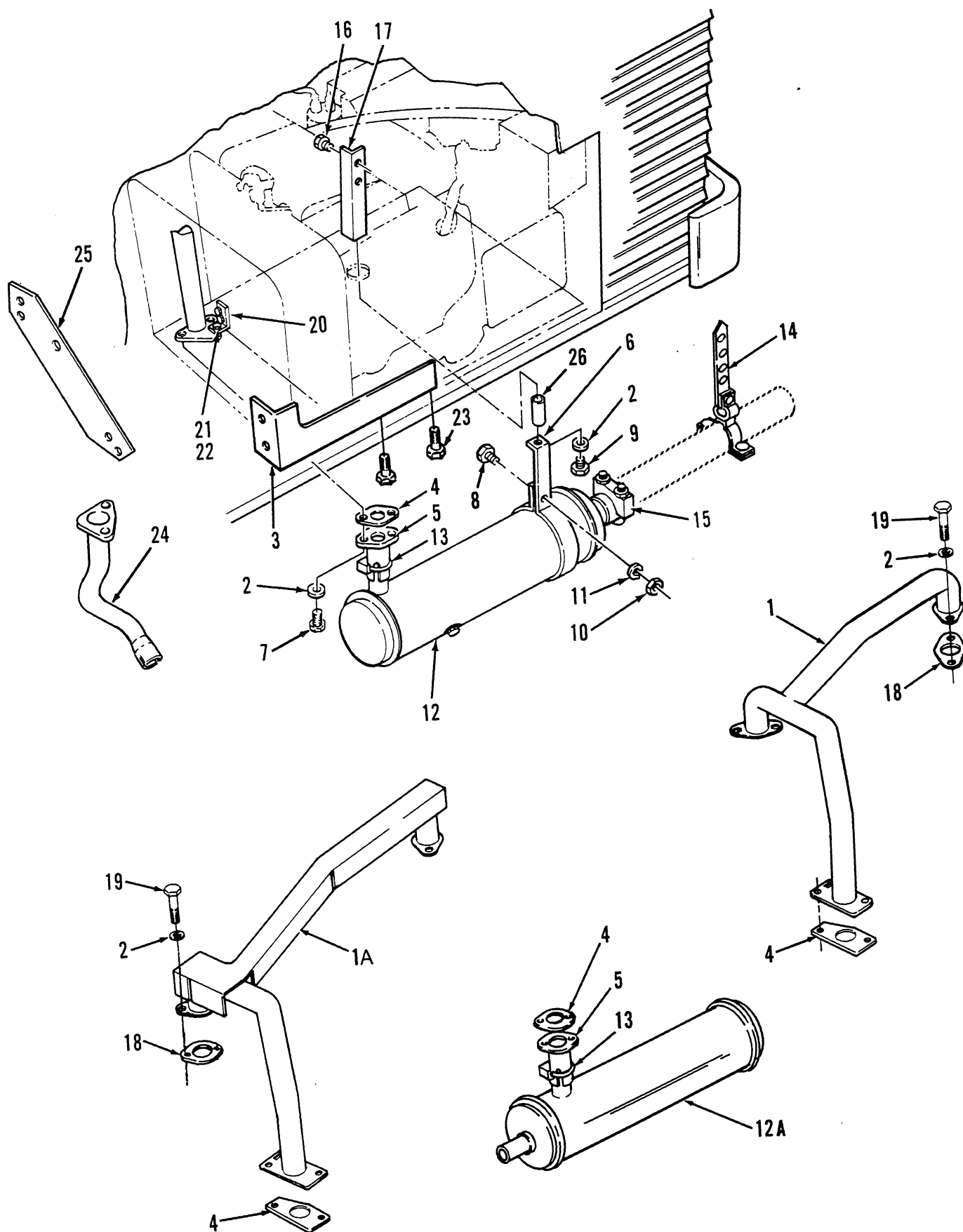
# Exhaust System - Below Floor Models Spec A

5600-0020

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-2510	1	Manifold Assembly, Exhaust (Front Outlet)	5	155-1256	1	Clamp, Muffler
2	155-2047	1	Muffler, Spark Arrestor Side Inlet, Outlet	6	850-0040	2	Washer, Lock (1/4")
2A	155-2048	1	Muffler, Spark Arrestor Side Inlet, End Outlet	8	800-0026	4	Screw, Cap - Hex Head Exhaust Manifold (5/16 - 18 x 3/4")
3	800-0004	2	Screw, Cap - Hex Head (1/4 - 20 x 5/8")	9	850-0045	4	Washer, Lock - Exhaust Manifold (5/16")
4			Bracket, Exhaust Manifold	13	154-1725	2	Gasket, Exhaust Manifold
	155-2036	1	1.56 x 1.97"	14	821-0029	2	Screw, Hex Washer Head - Self-Lock (3/8 - 16 x 3/4")
	155-2049	1	9.19" Long	15	526-0130	2	Washer, Flat (1/4" Screw)



## Exhaust System - Above Floor Models Begin Spec B

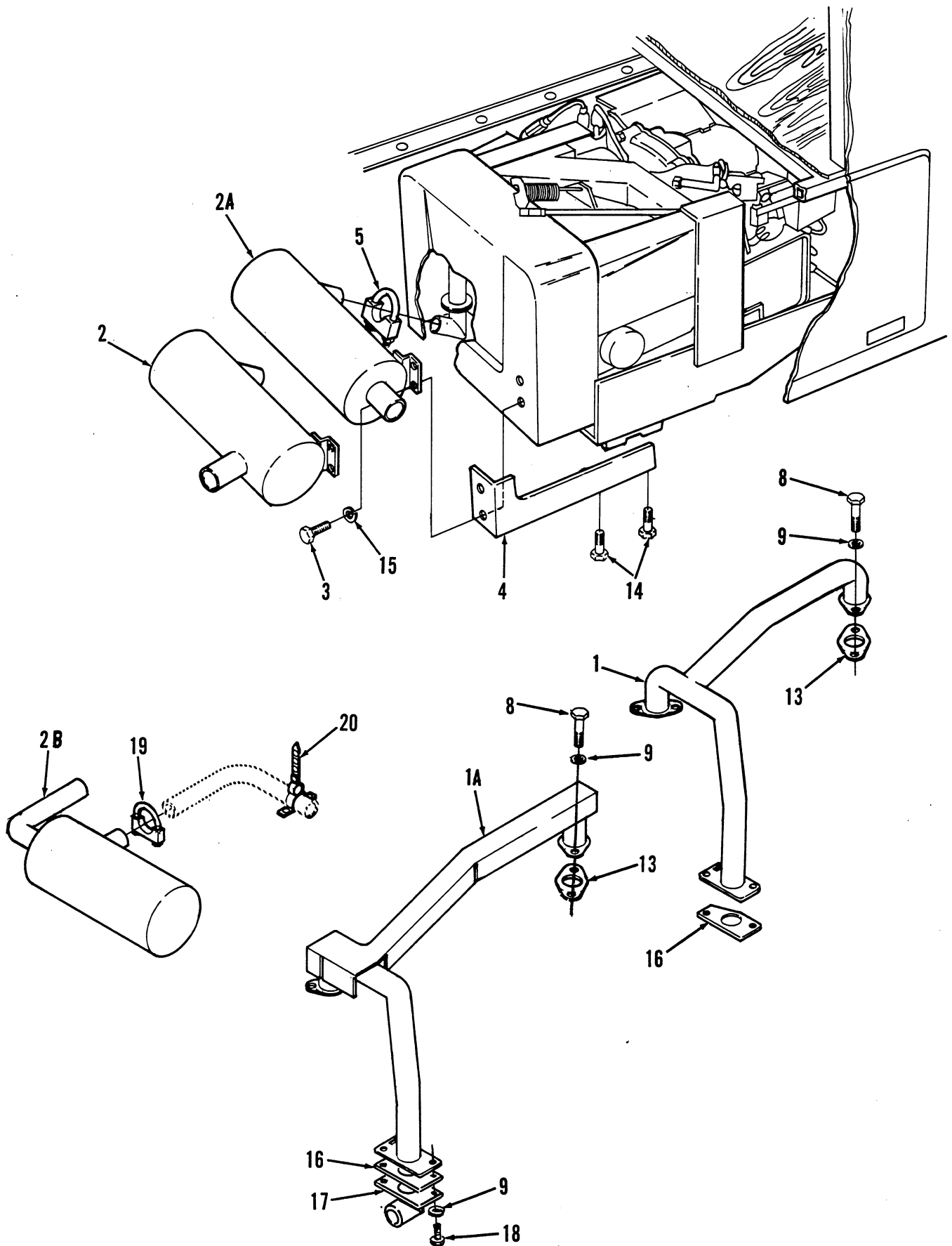


**Exhaust System - Above Floor Models  
Begin Spec B**

5600-0026  
5600-0053

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-2551	1	Manifold Assembly, Exhaust BGE	13	155-1239	1	Clamp, Muffler
1A	154-2627	1	Manifold Assembly, Exhaust BGEL	14	155-2174	1	Hanger, Exhaust
2	850-0045	7	Washer, Lock (5/16")	15	155-1015	1	Clamp, Muffler
3	155-2049	1	Bracket, Exhaust	16			Screw, Hex Washer Head - Thread Form
4	154-2542	1	Gasket, Exhaust		815-0499	2	4.0 BGE/BGEL (1/4 - 20 x 5/8")
5			Adapter, Exhaust (Flange Type)		815-0261	2	3.5 BGE (1/4 - 20 x 1/2")
	154-2540	1	4 - 1/4" Long	17	155-2026	1	Strap, Muffler
	154-2683	1	6 - 1/4" 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 - 18 x 3/4")
7	800-0730	2	Screw, Cap - Hex Head (5/16 - 18 x 1")	20			Bracket, Exhaust Manifold BGEL (1.97" Long)
8	800-0007	1	Screw, Cap - Hex Head (1/4 - 20 x 1")		155-2036	1	BGE (2.31" Long)
9			Screw, Cap - Hex Head		155-2049	1	BGE Begin Spec C (9.19" Long)
	800-0026	1	Use With-Out Spacer (5/16 - 18 x 3/4")	21	800-0005	1	Screw, Cap - Hex Head (1/4 - 20 x 3/4")
	800-0036	1	Use With Spacer (5/16 - 18 x 2-3/4")	22	526-0018	1	Washer, Flat (1/4" Screw)
10	862-0001	1	Nut, Hex (1/4 - 20)	23	821-0029	2	Screw, Hex Washer Head - Self-Lock (3/8 - 16 x 3/4")
11	850-0040	1	Washer, Lock (1/4")	24	154-2662	1	Tube, Exhaust - 11" Long (Use With 154-2663 Bracket)
12	155-1258	1	Muffler, Spark Arrestor Side Inlet, End Outlet	25	154-2663	1	Bracket, Exhaust (Use With 154-2662 Bracket)
12A	155-1485	1	Muffler, Spark Arrestor Same End Inlet, 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  
Begin Spec B

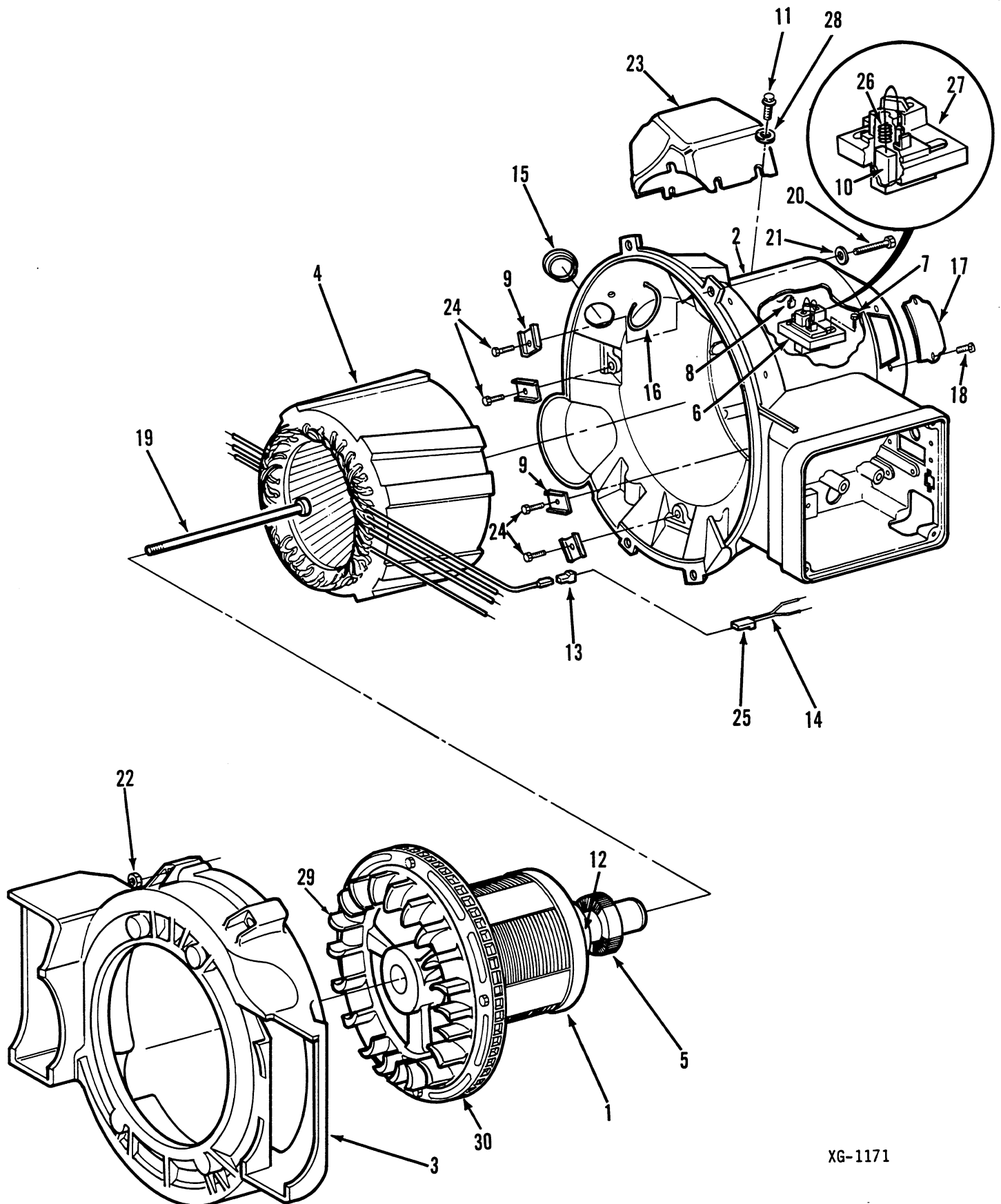


**Exhaust System - Below Floor Models  
Begin Spec B**

5600-0026  
5600-0053

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-2551	1	Manifold Assembly, Exhaust BGE	5	155-1256	1	Clamp, Muffler
1A	154-2627	1	Manifold Assembly, Exhaust BGEL	6	850-0040	2	Washer, Lock (1/4")
2	155-2086	1	Muffler, Spark Arrestor - Side Inlet, Opposite Side Outlet	8	800-0026	4	Screw, Cap - Hex Head Exhaust Manifold (5/16 - 18 x 3/4")
2A	155-2085	1	Muffler, Spark Arrestor - Side Inlet, Opposite End Outlet	9	850-0045	6	Washer, Lock (5/16")
2B	155-2164	1	Muffler, Spark Arrestor - Side Inlet, Same End Outlet	10	862-0001	2	Nut, Hex (1/4 - 20)
3	800-0004	2	Screw, Cap - Hex Head (1/4 - 20 x 5/8")	13	154-1725	2	Gasket, Exhaust Manifold
4			Bracket, Exhaust Manifold	14	821-0029	2	Screw, Hex Washer Head - Self Lock (3/8 - 16 x 3/4")
	155-2036	1	1.56 x 1.97"	15	526-0130	2	Washer, Flat (1/4" Screw)
	155-2049	1	9.19" Long	16	154-2542	1	Gasket, Exhaust
				17	154-2539	1	Tube, Exhaust
				18	800-0730	2	Screw, Cap - Hex Head (5/16 - 18 x 1")
				19	155-1015	1	Clamp, Muffler
				20	155-2174	1	Hanger, Exhaust Pipe

## Generator



XG-1171

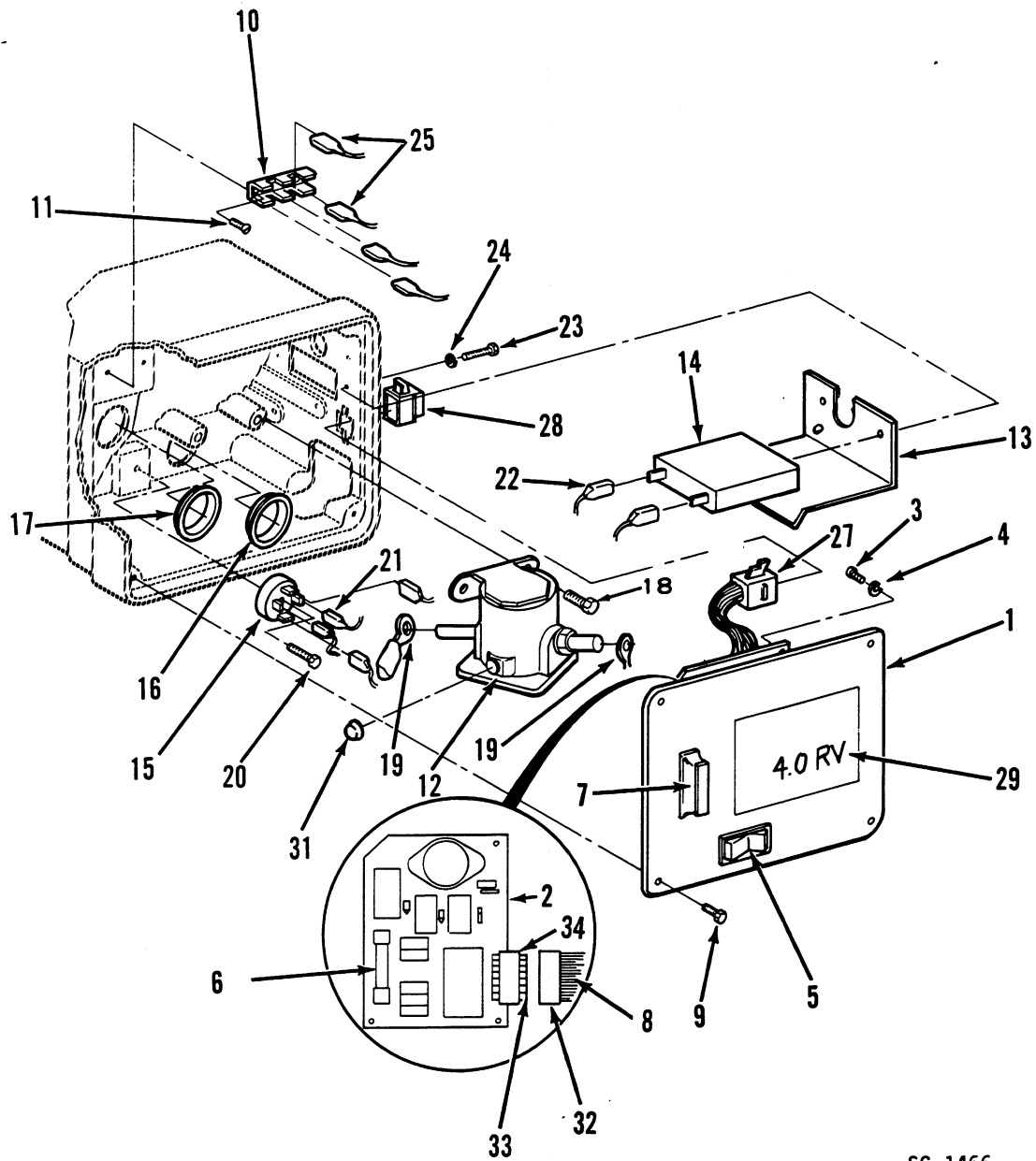
# Generator

5600-0016  
5600-0052

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Armature Assembly, Wound (Includes Fan, Ring Gear, Ball Bearing And Collector Ring)	12			Ring, Collector - Armature
	201-3172	1	Spec A-120 Volt, 60 Hertz		204-0137	1	60 Hertz
	201-3252	1	Begin Spec B		204-0134	1	50 Hertz
			120 Volt, 60Hz	13	323-1298	1	Connector, Tab
	201-3246	1	110/220 Volt, 50 Hertz	14			Lead Assembly
	201-3247	1	Begin Spec C - 120/240 Volt		226-2809	1	BGE - Includes Receptacle
			60 Hertz - Extended Shaft				Connector
2			Housing, Stator		226-2990	1	BGEL
	220-3945	1	Spec A	15	508-0253	1	Bushing (1.0 ID x 1.469" OD)
	220-4097	1	Begin Spec B	16	332-0941	4	Tie, Cable
3			Adapter, Generator	17	212-1274	1	Cover, Brush Block
	231-0284	1	Spec A	18			Screw, Hex Head - Thread Cut-
	231-0288	1	Begin Spec B				ting - W/ET
4			Stator Assembly, Wound		815-0194	2	4.0 BGE (10 - 32 x 3/8")
	220-3883	1	120 Volt, 60 Hertz		815-0181	2	3.5 BGE, Spec C
	220-3997-02	1	120/240 Volt, 50 Hertr				4.0 BGEL (10 - 32 x 1/2")
	220-3997-01	1	110/220 Volt, 50 Hertz	19	802-1038	1	Screw, Socket - Armature
	220-3885	1	120/240 Volt, 60 Hertz				Through (7/16 - 14 x 10.23")
5	510-0099	1	Bearing, Ball		800-0051	4	Screw, Cap - Hex Head
6	212-1278	1	Block Assembly, Generator		800-0052	4	60 Hertz
			Brush (Includes Parts	21	850-0050	4	50 Hertz
			Marked *)	22	862-0003	4	Washer, Lock (3/8")
7			Screw, Hex Head - Thread	23	315-0591	1	Nut, Hex (3/8 - 16)
			Form	24	815-0337	4	Cover, Transformer
	815-0584	2	(10-32 x 5/8")				Screw, Cap - Hex Washer Head
	815-0359	2	(10-32 x 7/8")	25			(1/4 - 20 x 3/4")
8	226-2442	1	Lead Assembly (Includes		323-1299	1	Connector, Receptacle
			Terminals)		332-0819	1	BGE
9			Clamp, Stator	26	212-1276-03	2	BGEL
	232-3073	4	60 Hertz	27	212-1277	1	*Spring, Generator Brush
	232-2955	4	50 Hertz	28	526-0018	4	*Block Assembly, With Terminal
10	214-0103	2	*Brush, Generator	29			Washer, Flat (1/4" Screw)
11	815-0436	4	Screw, Cap - Hex Washer Head		205-0156	1	Fan And Gear Assembly,
			(1/4 - 20 x 1/2")				Armature
					205-0165	1	4.0 BGE (Includes Ring Gear
				30	104-1570	1	Spec A Only
							4.0 BGEL-Spec B, 3.5 BGE-Spec C
							Gear, Ring - Spec A Only

\* - Parts Included In 212-1278 Generator Brush Block Assembly.

# Control



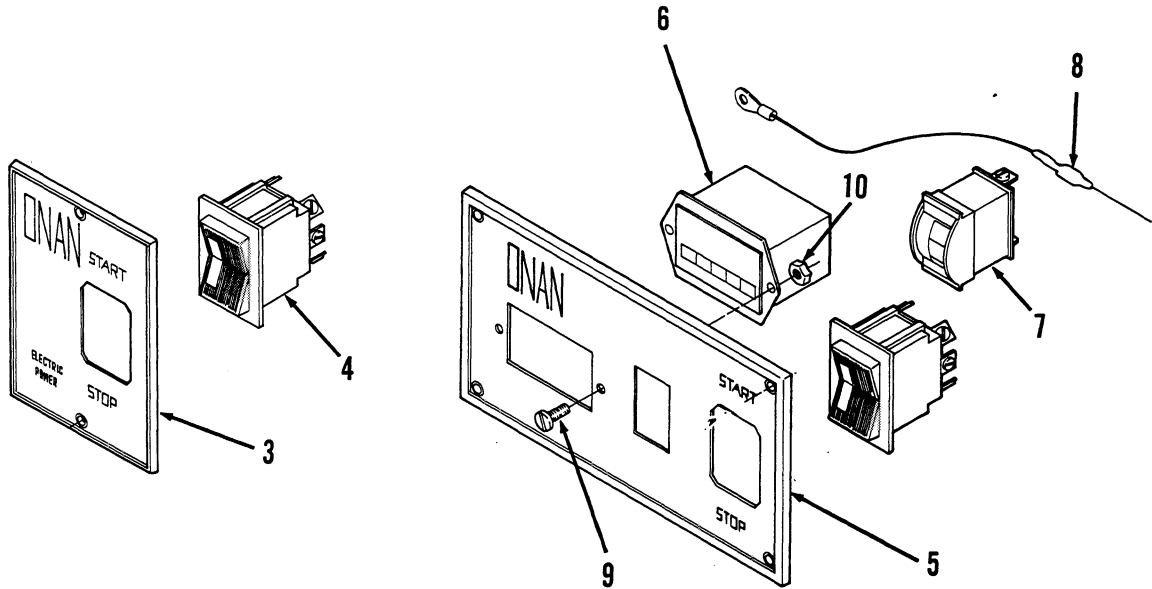
SC-1466

# Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-8619	1	Cover, Control	14		1	Breaker, Circuit
2			Board Assembly, Printed Circuit	320-1323		1	30 Ampere
	300-2784	1	Without Rectifier	320-1548-01		1	17 Ampere
	300-2943	1	With Rectifier	15	305-0718	1	Rectifier, Bridge
3	812-0062	4	Screw, Round Head (6 - 32 x 7/16")	16	508-0253	2	Bushing (1.0 ID x 1.469" OD)
4	850-0020	4	Washer, Lock (#6)	17	508-0251	1	Bushing (.750 ID x 1.125" OD)
5	308-0852	1	Switch, Rocker	18	815-0261	2	Screw, Hex Washer Head - Thd Cutting (1/4 - 20 x 1/2")
6	321-0174	1	Fuse, 5 Amps	19	332-0156	2	Terminal (.25)
7	321-0266	1	Holder, Fuse	20	815-0359	1	Screw, Hex Head - Thread Form (10 - 32 x 7/8")
8			Harness, Wiring (Includes 8-Pin Housing)	21	332-1993	2	Receptacle, Blue (.250)
	338-1931	1	60 Hertz	22	332-0684	2	Receptacle, Black (.250)
	338-1932	1	BGEL, Spec B	23	812-0061	2	Screw, Round Head (6 - 32 x 3/8")
	338-2031	1	50 Hertz	24	850-0020	2	Washer, Lock (#6)
9	815-0194	4	Screw, Hex Head W/ET - Thread -Cutting (10 - 32 x 3/8")	25	332-0529	6	Receptacle (.250)
10	332-1815	1	Tab, Terminal	27	323-0440	1	Housing, Socket
11			Screw, Pan Head	28	323-0400	1	Housing, Connector Pin
	815-0388	2	60 Hertz (6 - 32 x 1/2")	29	98-5260	1	Decal (Emerald I)
	815-0387	2	50 Hertz (6 - 32 x 1/4")	30	332-0942	1	Tie, Cable
12	307-2344	1	Solenoid, Start (Includes Nuts And Washers)	31	332-2112	1	Insulator, Terminal - Start Solenoid
13	320-1549	1	Guard, Circuit Breaker	32	323-1311	1	Connector, 8 Pin
				33	323-1302	8	Pin, Contact
				34	323-1312	1	Housing, 8 Pin



## Remote Start Control



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-0985	1	Control Package - Standard Remote Starting (Includes Parts Marked*)
	300-0986	1	Control Package - Deluxe Remote Starting (Includes Parts Marked +)
3	301-3566	1	*Panel, Control
4	308-0341	1	++Switch, Rocker

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	301-3606	1	+Panel, Control
6	302-0885	1	+Meter, Time Totalizing
7	302-0888	1	+Meter, Battery Condition
8	359-0034	1	+Diode
9	815-0385	2	+Screw, Machine - Round Head (#6 - 32 x 1/2")
10	860-0005	2	+Nut, Hex Head (#6 - 32)
	338-1082	1	Harness, Remote - 6" Long (Not Shown)

\* - Parts Included In 300-0985 Control Assembly.  
+ - Parts Included In 300-0986 Deluxe Control Assembly.

## Labels, Paint And Thread Sealant

PART NO.	QTY USED	PART DESCRIPTION
98-5142	1	Label, Warning(Fire Hazard)
98-5313	1	Label, Warning(Battery Cables)
98-5335	1	Label, Preheat(Gasoline)
98-5347	1	Label, Danger(High Voltage)
98-5260	1	Decal (Emerald I)
518-0452	1	Sealant, Thread (50cc. Bottle)
525-0305	1	Paint, Enamel Touch-Up Green(Non-Metallic) 13oz. Pressurized Can