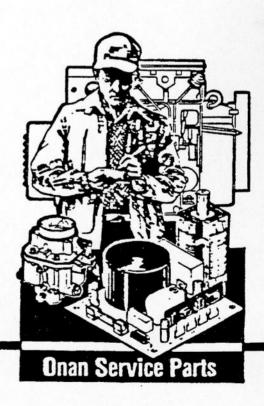
Onan

Parts Manual

MCCK

Marine GenSet

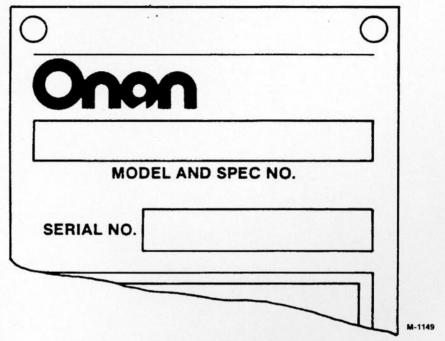


927-0224 5-88 (Spec H-J) Replaces 8-81 (Spec H) Printed in U.S.A.

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.



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

Important Safety Precautions

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. Electrocution 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:

- Move genset operation switch or Stop/Auto/ Handcrank switch (whichever applies) to Stop.
- Disconnect genset batteries (negative [-] leafirst).
- 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 feder al 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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Introduction

This Parts Manual applies to the Standard Gen Sets Listed below. The illustrations are arranged in groups of related items, and each part or assembly is identified by a Reference Number. All parts illustrated are typical, and unless otherwise mentioned in the description column the parts are interchangeable between models.

These typical illustrations are subject to change and reflect only the latest replacement parts arrangement. The Right and Left sides of the Set are determined by FACING the FRONT (Engine end) of the Set.

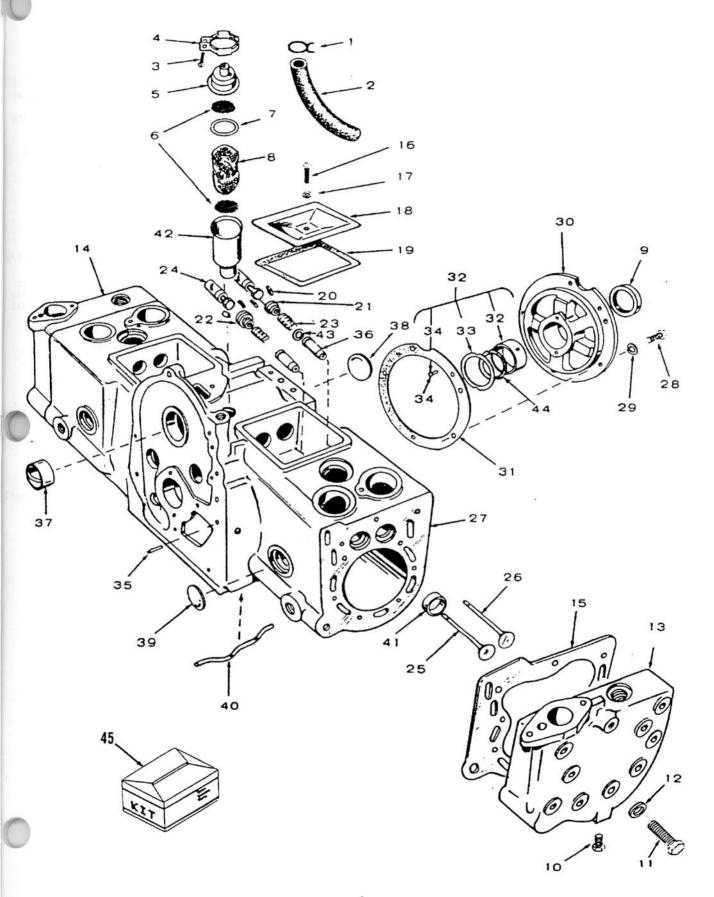
Set Data Table

MODEL AND			ELECTRIC	CAL DATA		PARTS
SPECIFICATION	WATTS	VOLTS	HERTZ	WIRE	PHASE	KEY NO.
3.5MCCK-53CR/*	3500	120/240	50	4	1	
4.0MCCK-3CR/*	4000	120/240	60	4	1	1
5.5MCCK-53CR/*	5500	120/240	50	4	1	2
6.5MCCK-3CR/*	6500	120/240	60	4	1	

^{* -} The Specification Letter Advances (A to B, B to C, etc.) with manufacturing changes.

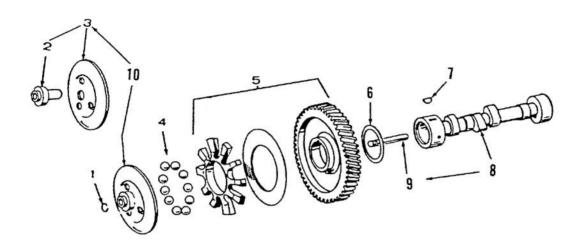
Standard Parts Section

This section contains the illustrated parts listing for the standard generator sets listed in the Data Table.



Cylinder Block

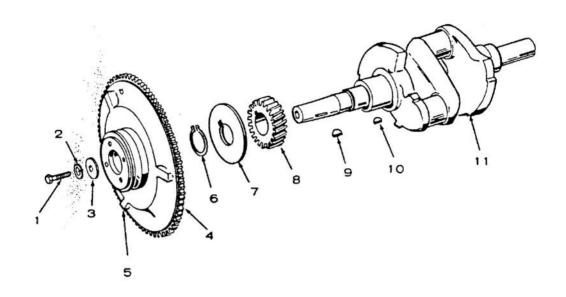
REF	PART	QTY	PART	REF	PART	QTY	PART
NO.	NO.	USED	DESCRIPTION	NO.	NO.	USED	DESCRIPTION
1	503-0170	2	Clamp, Hose	27	110-2553	1	Block Assembly, Cylinder
2	503-0761	ī	Hose, Rubber - Preformed	-		-	(Includes Parts Marked *)
3	809-0035	1	Screw, Tapping - Round Head, Slotted (#8 x 3/4")	28	800-0512	5	*Screw, Cap - Hex Head (Special)
4	123-0951	1	Clamp, Loop - Metal	29	850-0045	5	*Washer, Lock - Spring (5/16")
5	123-0955	1	Cap, Tube - Breather	30	101-0316	1	*Plate, Bearing - Rear (Less
6	123-0958	2	Screen, Tube - Breather				Bearing)
7	509-0117	1	Gasket, Tube - Breather	31	101-0115	1	*Gasket Kit, Plate - Bearing
8	123-1417	1	Filter, Tube - Breather				(Includes Shims)
9	509-0041	1	Seal, Oil (In Gasket Kit	32			Bearing Kit, Crankshaft
			168-0149)				(Includes Thrust Washer)
10	502-0153	2	Plug, Pipe - Hex Head (Brass)		101-0450	2	* Standard
11	800-0509	18	Screw, Cap - Hex Head		101-0450-02	2	.002" Undersize
			(Special)		101-0450-10	2	.010" Undersize
12	526-0122	18	Washer, Flat (5/16)		101-0450-20	2	.020" Undersize
13			Head, Cylinder - Right Side		101-0450-30	2	.030" Undersize
	110-1479	1	Sets Without Heat Exchanger	33	104-0575	2	*Washer, Thrust
	110-1506	1	Sets With Heat Exchanger	34	516-0072	2	*Pin, Drive - Headed
14			Head, Cylinder - Left Side				(.190" Dia. x 11/32")
	110-1478	1	Sets Without Heat Exchanger	35	516-0141	2	*Pin, Dowel (5/16" Dia. \times 7/8")
	110-1505	1	Sets With Heat Exchanger	36	110-0902	4	*Guide, Valve
15	110-3535	2	Gasket, Head	37	101-0367	2	**Bearing, Sleeve - Camshaft
16	800-0012	2	Screw, Cap - Hex Head	38	517-0048	1	*Plug, Expansion (1-5/8" Dia.)
			$(1/4-20 \times 2-1/4")$	39	517-0011	8	*Plug, Expansion (1-1/4" Dia.)
17	526-0063	4	Washer, Flat - Copper (1/4)	40	120-0386	1	*Tube, Oil
18	110-0666	2	Cover, Valve	41			Seat, Valve - Exhaust
19	110-0667	2	Gasket, Cover - Valve		110-0872	2	* Standard
20	110-0639	8	Lock, Stem - Valve		110-0872-02	2	.002" Oversize
21	110-0893	2	Washer, Retainer - Intake Valve		110-0872-05	2	.005" Oversize
			Spring		110-0872-10	2	.010" Oversize
22	110-0904	2	Rotocap, Spring - Exhaust		110-0872-25	2	.025" Oversize
			Valve	42	123-0953	1	*Tube, Breather
23	110-0539	4	Spring, Valve	43	110-3136	2	*Gasket, Guide - Intake Value
24			Tappet, Valve	44	104-0776	1	Shim, Bearing - Thrust
	115-0006	4	Standard	45	168-0149	1	Gasket Kit, Engine
	115-0006-02	4	.002" Oversize				-
	115-0006-05	4	.005" Oversize				
25	110-0880	2	Valve, Exhaust (Chrome Cobalt Alloy)	*	 Parts Inclu Assembly 	ided i	n 110-2553 Cylinder Block
26	110-0881	2	Valve, Intake (Steel)	**		Hi-Li	ft Cam, Use 101-0405 Bearing(1)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-0078 150-1519	1	Ring, Retaining *Hub, Governor	7	515-0001	1	Key, Woodruff (1/2" Dia. x
3	150-1519 150-1520 510-0015	10	*Cup, Governor Ball, Fly	8	105-0140	1	1/8" Thk) Camshaft Assembly (Includes
	105-0332	1	Gear Assembly, Camshaft	9	150-0075	1	Center Pin) Pin, Center - Camshaft
6	105-0541	1	(Includes Spacer and Plate) Washer, Thrust	10	150-1695	1	Cup Kit, Governor (Includes Parts Marked *)

^{* -} Parts Included in 150-1695 Governor Cup Kit

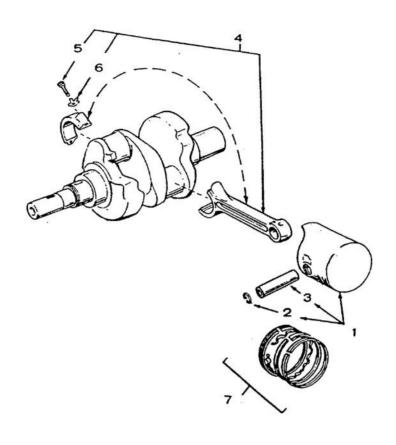
Crankshaft and Flywheel



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)	7 8	104-0043 104-0032	1	Washer, Retaining - Gear
2	850-0055	1	Washer, Lock - Spring (7/16")	9		1	Gear, Crankshaft
3	526-0017	ī	Washer, Flat (7/16)	9	515-0098	1	*Key, Woodruff (5/8" Dia. x 3/16" Thk)
4	104-1069	1	Flywheel (Includes Ring Gear)	10	515-0001	1	*Key, Woodruff (1/2" Dia. x
5	134-0673	1	Gear, Ring	77.0		-	1/8" Thk)
6	518-0014	1	Ring, Retaining	11	104-1346	1	Crankshaft Kit (Includes Parts Marked *)

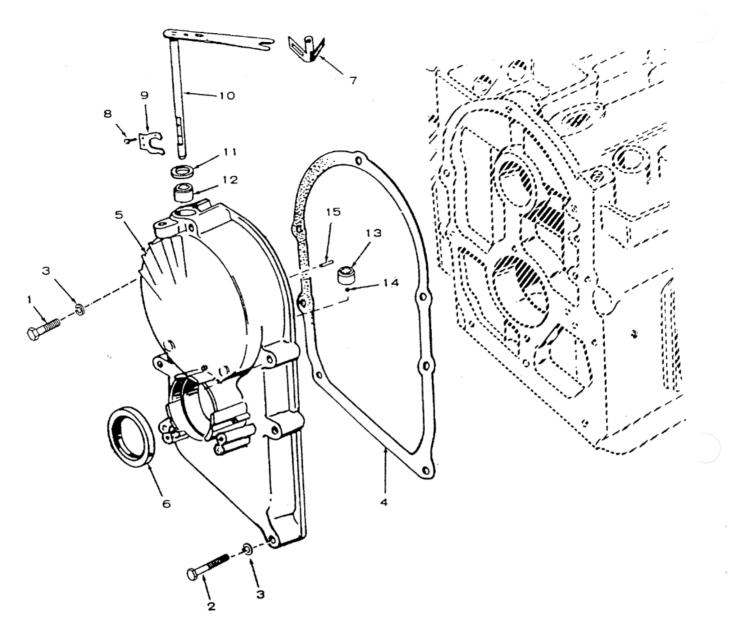
^{* -} Parts Included in Crankshaft Kit

Piston and Rod

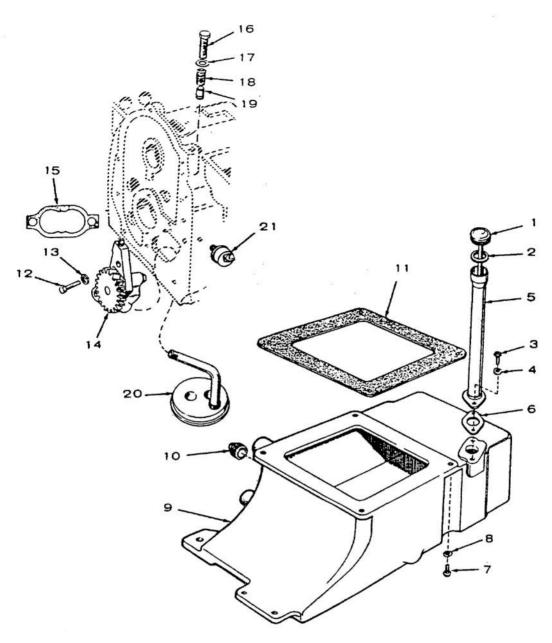


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Piston and Pin (Includes Retaining Rings and Wrist	5	800-0548	4	Screw, Cap - Hex Head (Special)
			Pins)	6	114-0059	4	Washer, Lock - Connecting Rod
	112-0179	2	Standard	7			Ring Set, Piston
	112-0179-05	2	.005" Oversize		113-0152	2	Standard
	112-0179-10	2	.010" Oversize		113-0152-05	2	.005" Oversize
	112-0179-20	2	.020" Oversize		113-0152-10	2	.010" Oversize
	112-0179-30	2	.030" Oversize		113-0152-20	2	.020" Oversize
	112-0179-40	2	.040" Oversize		113-0152-30	2	.030" Oversize
2	112-0003	4	Ring, Retaining		113-0152-40	2	.040" Oversize
3	112-0069	2	Pin, Wrist - Piston			•	.040 00013120
4			Rod, Connecting (Includes				
	114-0098	^	Screw and Lock)				
		2	Standard				
	114-0098-10	2	.010" Undersize				
	114-0098-20	2	.020" Undersize				
	114-0098-30	2	.030" Undersize				

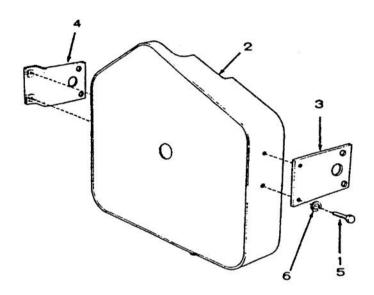
Gearcase



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0034	1	Screw, Cap - Hex Head (5/16-18 x 2-1/4")	10	150-1564	1	*Arm and Shaft, Governor (Includes Clip)
2	114-0022	4	Screw, Cap - Hex Head	11	509-0008	1	*Seal, Oil - Governor Shaft
			$(5/16-18 \times 1-3/4")$	12	510-0013	1	*Bearing, Needle - Upper
3	850-0045	5	Washer, Lock - Spring (5/16")	13	510-0013	1	*Bearing, Needle - Lower
4	103-0011	1	Gasket, Gearcase	14	510-0014	1	*Ball, Bearing
5	103-0667	1	Gearcase Assembly (Includes	15	516-0130	ĩ	*Pin, Roll - Yoke Stop
			Parts Marked *)		815-0193	2	*Screw, Hex Head - Thread
6	509-0040	1	*Seal, Oil - Crankshaft				Cutting $(1/4-20 \times 3/8")$
7	150-0678	1	*Clip, Adjustment - Sensitivity				(Not Shown)
8	815-0046	2	Screw, Machine - Pan Head, Cross-Recessed (#8-32 x 3/8")		815-0261	1	*Screw, Hex Head - Thread Cutting (1/4-20 x 1/2")
9	150-1187	1	*Yoke, Governor				(Not Shown)

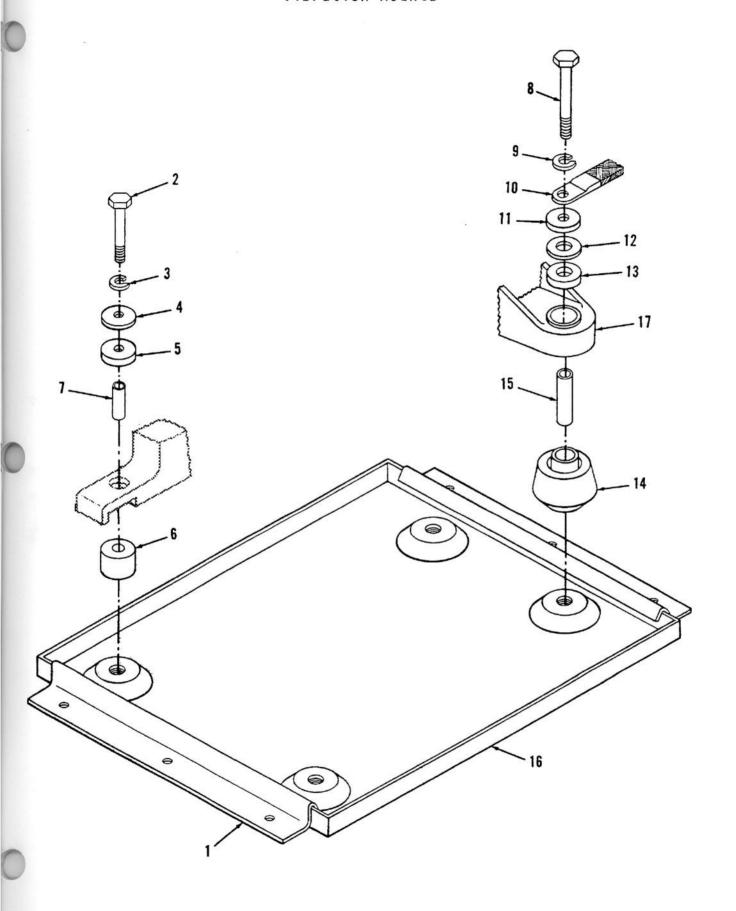


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	123-1160	1	Indicator, Fill - Oil	11	102-0158	. 1	Gasket, Base - Oil
			(Includes Gasket Cap)	12	800-0007	2	Screw, Cap - Hex Head
2	123-0191	1	Gasket, Cap - Oil Fill			100	(1/4-20 × 1")
3	800-0004	2	Screw, Cap - Hex Head	13	850-0040	2	Washer, Lock - Spring (1/4")
			$(1/4-20 \times 5/8")$	14	120-0491	1	Pump, Oil
4	850-0040	2	Washer, Lock - Spring (1/4")	15	120-0161	ī	Gasket Kit, Pump - Oil
5	123-0508	1	Tube, Fill - Oil	16	801-0048	1	Screw, Cap - Hex Head
6	141-0078	1	Gasket, Tube - Oil Fill	(7)		-	$(3/8-24 \times 3/4")$
7	102-0455	4	Screw, Cap - Hex Head	17	526-0066	1	Washer, Flat - Copper (3/8)
			(Special)	18	120-0140	1	Spring, Valve - Bypass
8	850-0050	4	Washer, Lock - Spring (3/8")	19	120-0398	1	Plunger, Valve - Bypass
9	102-0517	1	Base, Oil	20	120-0400	ī	Cup, Intake - Oil Pump
10	505-0056	2	Plug, Pipe - Square Head	21	309-0113	ī	Switch, Pressure - Low Oil



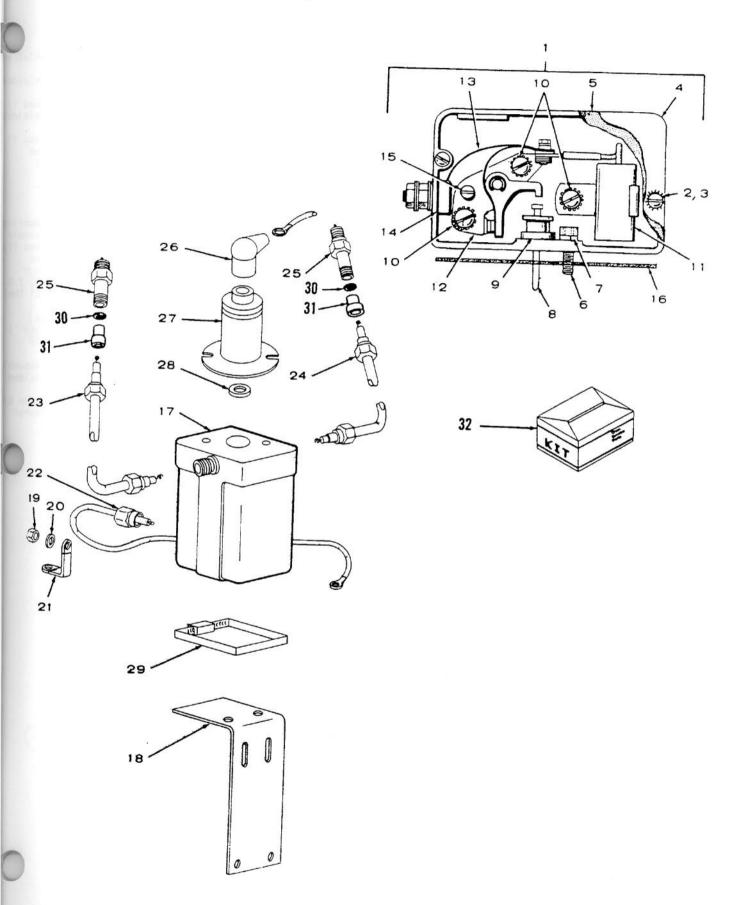
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0010	4	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")	4	131-0282	1	*Bracket, Guard - Belt (Left Hand)
2	131-0277	1	Key 1 Guard, Belt	5	800-0708	4	Screw, Cap - Hex Head (1/4-20 x 1/2") - Key 2
13773		1				0.20	
3	131-0281	1	*Bracket, Guard - Belt (Right Hand)	6	850-0160	4	Washer, Lock (1/4") - Key

Brackets Attached to Engine via Cylinder Head Cap Screws.



Vibration Mounts

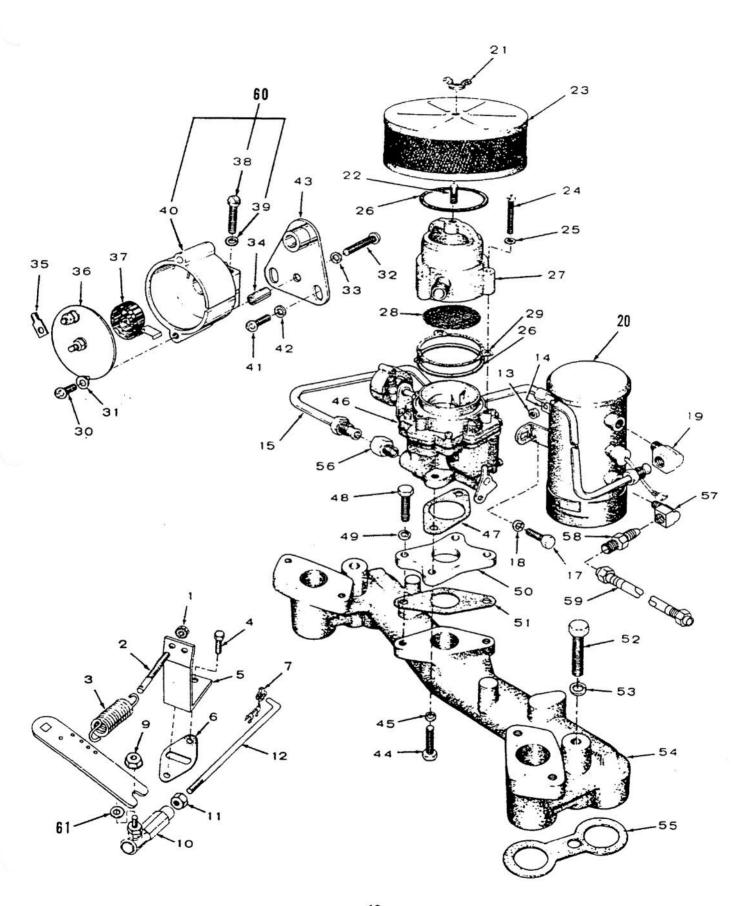
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-1265	2	Clamp, Holddown	10	337-0091	1	Strap, Ground
2	800-0055	2	Screw, Cap - Hex Head	11	526-0128	2	Washer, Flat (15/32")
-		_	$(3/8-16 \times 2-1/4")$	12	526-0198	4	Washer, Flat (5/8")
3	850-0050	2	Washer, Lock - Spring (3/8")	13	402-0282	2	Snubber, Rubber
4	526-0124	4	Washer, Flat (3/8")	14	402-0284	2	Cushion, Rubber
5	402-0131	2	Snubber, Rubber	15	402-0290	2	Bushing, Sleeve
6	402-0036	2	Cushion, Rubber	16	403-1505	1	Pan, Drip
7	402-0176	2	Bushing, Sleeve	17	232-2321	1	Support, Generator
8	800-0081	2	Screw, Cap - Hex Head (7/16-14 x 3-1/2")				200
9			Washer, Lock				
	850-0055	1	Spring (7/16")				
	856-0012	1	External/Internal Tooth (7/16")				



Ignition System

REF	PART	QTY		REF	PART	QTY	PART
NO.	NO.	USE	D DESCRIPTION	NO.	NO.	USED	DESCRIPTION
1	160-1277	1	Box Assembly, Breaker (Includes Parts Marked *)	22	336-4674	1	Lead, Electrical - Shielded (Box to Coil)
2	812-0077	2	*Screw, Machine - Round Head Slotted (#8-32 x 3/8")	23	167-1631	1	Lead, Electrical - Shielded, Spark Plug (25")
3	856-0002	2	Washer, Lock - External Internal Tooth (#8)	24	167-1632	1	(Includes Parts Marked †) Lead, Electrical - Shielded,
4	160-0930	1	*Cover, Box - Breaker				Spark Plug (10")
5	160-0440	1	*Gasket, Box ~ Breaker				(Includes Parts Marked †)
6	802-0034	2	*Screw, Cap ~ Socket Head	25	167-0199	2	Plug, Spark - Shielded
			$(1/4-20 \times 3/4")$	26	167-0300	1	Nipple, Rubber - Coil
7	850-0040	2	*Washer, Lock - Spring (1/4")				Terminal
8	160-0265	1	*Plunger	27	312-0083	1	Condenser, Ignition -
9	160-0264	1	*Guide, Plunger				Shielded
10	518-0049	3	*Screw, Machine - Round Head	28	509-0102	1	Seal, "O" Ring
			with External Tooth	29	503-1142	1	Clamp, Loop - Coil Mounting
			Lockwasher (#8-32 \times 1/4")	30	167-0077	2	tSpring and Washer Assembly
11	312-0069	1	**Condenser, Ignition				(Includes Parts Marked ††)
12	160-0002	1	**Point Set, Breaker		167-0302	2	ttSpring, Steel Wire
13	160-0428	1	*Lead, Flat - Point Set to		167-0301	2	ttEyelet, Spring
			Terminal		526-0320	2	ttWasher, Flat (.133 I.D. x
14	160-0349	1	*Terminal Assembly, Box -				.281 O.D. × .025" Thk)
			Breaker	31	167-0208	2	†Grommet, Rubber
15	160-0075	1	*Pivot, Adjusting - Point Set	32	160-0836	1	Tune Up Kit, Ignition
16	160-0043	1	*Gasket, Mounting - Breaker Box				(Includes Parts Marked *)
17	166-0382	1	Coil, Ignition - Shielded				
18	166-0704	1	Bracket, Mounting - Coil				
19	870-0053	2	Nut, Hex (#10-32)	* ~	Parts Includ	ded in	160-1277 Breaker Box Assembly
20	854-0010	1	Washer, Lock - Internal Tooth (#10)	† -	Parts Include Spark Plug L		167-1631, 167-1632 Shielded
21	337-0419	1	Strap, Ground				160-0836 Ignition Tune Up Kit 167-0077 Spring and Washer

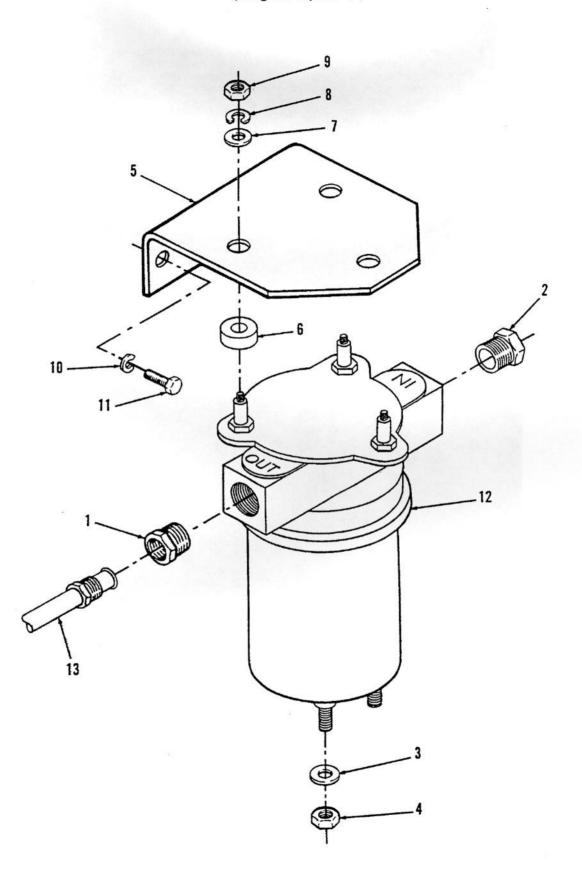
Fuel System



Fuel System

REF	PART	QTY	PART	REF	PART	OTY	PART
NO.	NO.	USED		NO.		ÛSED	DESCRIPTION
1	150 0601		Nua Acous	22	812-0084	1	Screw, Machine - Round Head
1	150-0621	1	Nut, Acorn	32	612-0064	1	(#8-32 × 1")
2	150-0096	1	Stud, Adjusting - Governor	20	050 0005	1	
3	150-1612	1	Spring, Governor	33	850-0025	1	Washer, Lock - Spring (#8)
4	800-0004	2	Screw, Cap - Hex Head		153-0516	1	Spacer, Sleeve
			$(1/4-20 \times 5/8")$		332-0527	1	Terminal, Tab
5	150-1577	1	Bracket, Governor		153-0116	1	Cover, Choke
6	149-0003	1	Gasket		153-0017	1	Element, Choke
7 .	518-0004	1	Clip, Rod - End	38	815-0110	1	tScrew, Machine - Fillister
9	870-0131	1	*Nut, Self-locking Hex				Head $(#10-32 \times 7/8")$
			(#10-32)	39	850-0030	1	tWasher, Lock - Spring (#10)
10	150-0639	1	*Ball, Joint	40	153-0058	1	thousing, Choke
11	870-0053	2	*Nut, Hex (#10-32)	41	813-0098	2	Screw, Machine - Round Head
12	150-1732	ī	*Rod, Control	-		-	$(#10-32 \times 3/8")$
200	862-0015	ī	Nut, Hex (5/16-18)	42	850-0030	2	Washer, Lock - Spring (#10)
14	518-0350	ī	Clamp, Loop - Insulated		153-0481	ī	Adapter, Choke
15	310-0330	1		44		2	Screw, Cap - Hex Head
15	140 1604	4	Line, Fuel	44	800-0028	2	
	149-1624	1	Spec A-H	45	050 0045	•	(5/16-18 × 1")
	149-2154	1	Spec J		850-0045	2	Washer, Lock - Spring (5/16")
17	800-0544	2	Screw, Cap - Hex Head	46	146-0439	1	Carburetor, Gasoline (See
			(Special)				Separate Illustration for
18	850-0160	2	Washer, Lock - Spring (1/4")				Parts)
19	502-0002	1	Elbow, Inverted Male - Brass	47	141-0858	1	Gasket, Mounting - Carburetor
			(1/4 Pipe, 1/8 NPT)	48	800-0007	2	Screw, Cap - Hex Head
20			Pump, Fuel				$(1/4-20 \times 1")$
	NFS	1	Spec A-H (Must convert to	49	850-0040	2	Washer, Lock - Spring (1/4")
	-		Spec J. Use Kit 149-2186)	50	154-2077	1	Adapter, Mounting - Carburetor
			(See Next Page for		141-0859	ī	Gasket, Mounting - Carburetor
			Breakdown)	52		2	Screw, Cap - Hex Head
	149-2159		Spec J	J.	000 0000	-	(3/8-16 × 3-1/4")
21	865-0020	1	Nut, Wing - Self-locking	53	850-0050	2	Washer, Lock - Spring (3/8")
21	663-0020	1			154-2078	1	Manifold, Intake
00	500 0000	•	(1/4-20)				
22	520-0093	1	Stud $(1/4-20 \times 7/8")$	55	154-0013	2	Gasket, Manifold - Intake
23	145-0516	1	Arrester, Spark	56		1	Adapter, Pipe to Tube
24	813-0106	3	Screw, Machine - Round Head	. 57		1	Elbow, Inverted Male
			$(#10-32 \times 1-1/8")$	58		1	Connector, Male
25	850-0030	3	Washer, Lock - Spring (#10)	59	501-0242	1	Line, Fuel (3/8"ID x 24")
26	509-0145	2	Seal, "O" Ring	60	153-0440	1	Housing, Choke (Includes
27	140-1473	1	Adapter, Cleaner - Air				Parts Marked †)
28	120-0848	2	Screen, Adapter - Carburetor	61	526-0196	1	*Washer, Flat (#10)
29	140-1684	1	Gasket, Adapter to Carburetor				
	815-0285	2	Screw, Machine - Round Head				
-		•	with External Tooth	*	- Parts In	cluded i	n 150-1718 Linkage Assembly
			Lockwasher (#8-32 x 5/16")	+	- Parts In	cluded i	n 153-0440 Choke Housing
21	526-0062	2	Washer, Flat (#8)		an to In	o ludeu 1	ii 100 0.40 olloko libaa ilig
31	320-0002	2	master, Flat (#0)				4

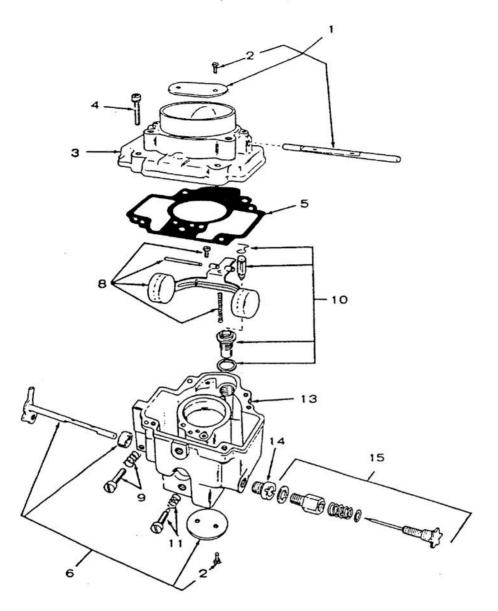
Fuel Pump (Begin Spec J)



Fuel Pump (Begin Spec J)

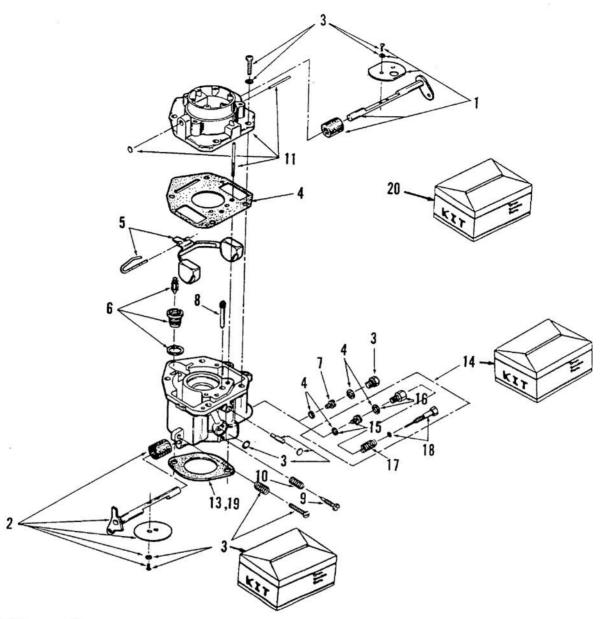
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION	
1	502-0033	1	Connector, Male - Inverted	8	850-0030	3	Washer, Lock (#10)	
2	502-0029	1	Bushing, Pipe	9	870-1053	3	Nut, Hex (#10-32)	
3	526-0008	2	Washer, Flat (#10)	10	850-0160	2	Washer, Lock - Spring	(1/4)
4	870-0131	2	Nut, Hex - Ext Tooth (#10-32)	11	800-0708	2	Screw, Cap - Hex Head	(-, -,
5	149-2153	1	Bracket, Pump - Fuel				$(1/4-20 \times 1/2)$	
6	370-4052	3	Spacer, Mounting - Fuel Pump	12	149-2159	1	Pump, Fuel	
7	526-0008	3	Washer, Flat (#10)	13	149-2154	1	Line, Fuel	

Carburetor Parts (Walbro)

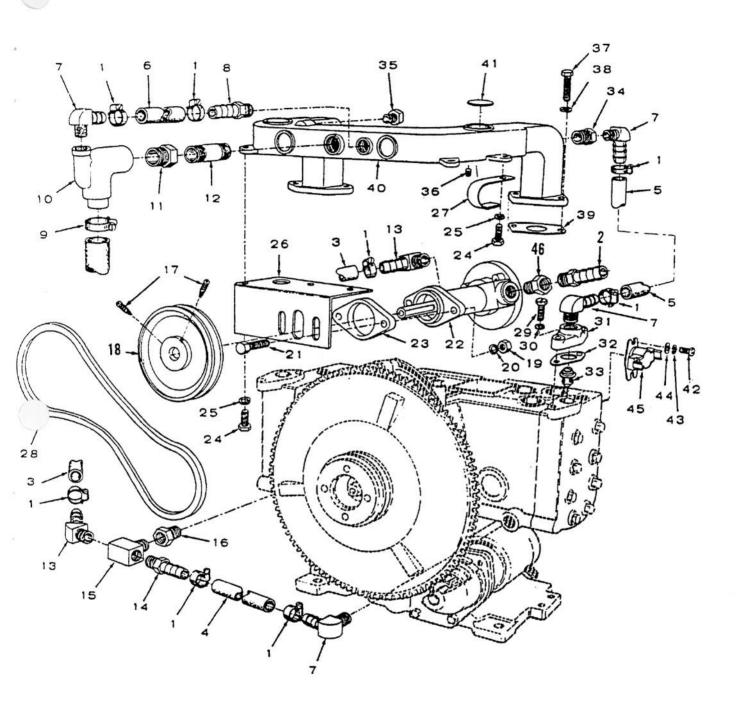


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	146-0313	1	Carburetor (Includes Mounting	6	146-0267	1	Shaft Package, Throttle
			Gasket)	8	146-0262	1	Float Package
1	146-0264	1	Shaft Package, Choke	9	146-0261	1	Throttle Package
2	146-0142	4	Screw, Mounting - Valve	10	146-0227	1	Valve and Seat Package
			(Special)	11	146-0209	1	Needle Package, Idle
3	NFS	1	Intake, Air	13	NFS	1	Body
4	146-0247	4	Screw, Body to Intake	14	146-0243	1	Jet, Power
			(Special)	15	146-0248	1	Needle Package, Power
5	146-0220	1	Gasket Kit, Carburetor		146-0258	1	Repair Kit, Carburetor

Carburetor Parts (Nikki)



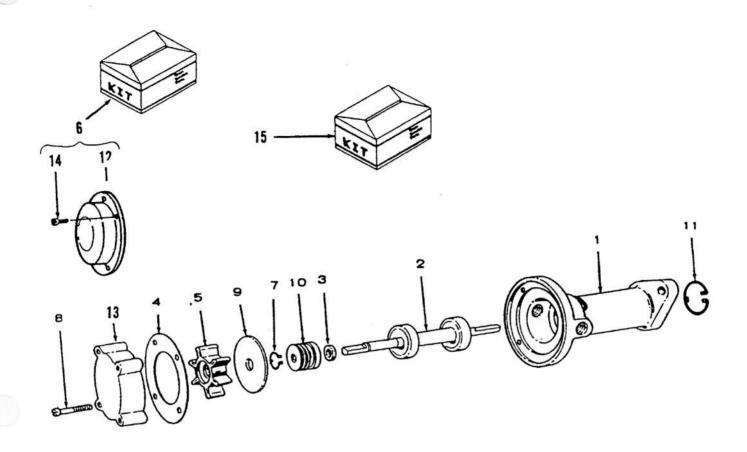
NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	146-0439	1	Carburetor, Complete (Includes Mounting Gasket)	14	146-0327	1	Jet Kit, Variable - Optional (High Altitude Application)
1	146-0417	1	Choke, Shaft Kit				(Includes Parts Marked +)
2	146-0418	1	Shaft, Throttle (Kit)	15	146-0343	1	+Jet, Power - Variable
3	146-0322	1	*Screw and Plug Kit (Includes	0.20		-	(Includes Gasket)
			Parts Marked ')	16	146-0340	1	+Retainer, Needle - Power
4	146-0326	1	*Gasket Kit			1 7 70	(Includes Gasket)
5	146-0325	1	Float Kit	17	146-0341	1	+Spring, Needle - Power
6	146-0329	1	*Valve and Seat Kit	18	146-0342	1	+Needle, Power - Complete
7	146-0343	1	Jet, Power (Includes Gasket)	19	141-0859	1	Gasket, Mounting - Carburetor
8	146-0420	1	Jet, Idle	20	146-0356	1	Repair Kit (Includes Parts
9	146-0335	1	*Needle, Adjusting - Idle			-	Marked *)
10	146-0331	1	*Spring, Needle - Idle Adjusting				Har Rea /
11	NFS	1	Intake, Air	* ~	Parts Inclu	ided in	146-0356 Repair Kit.
12	NFS	1	Body	+ -	Parts Inch	uded in	146-0327 Variable Jet Kit.
13	141-0858	2	Gasket, Mounting - Carburetor	• -	Part Includ	ded in	146-0322 Screw and Plug Kit



Cooling - Exhaust System

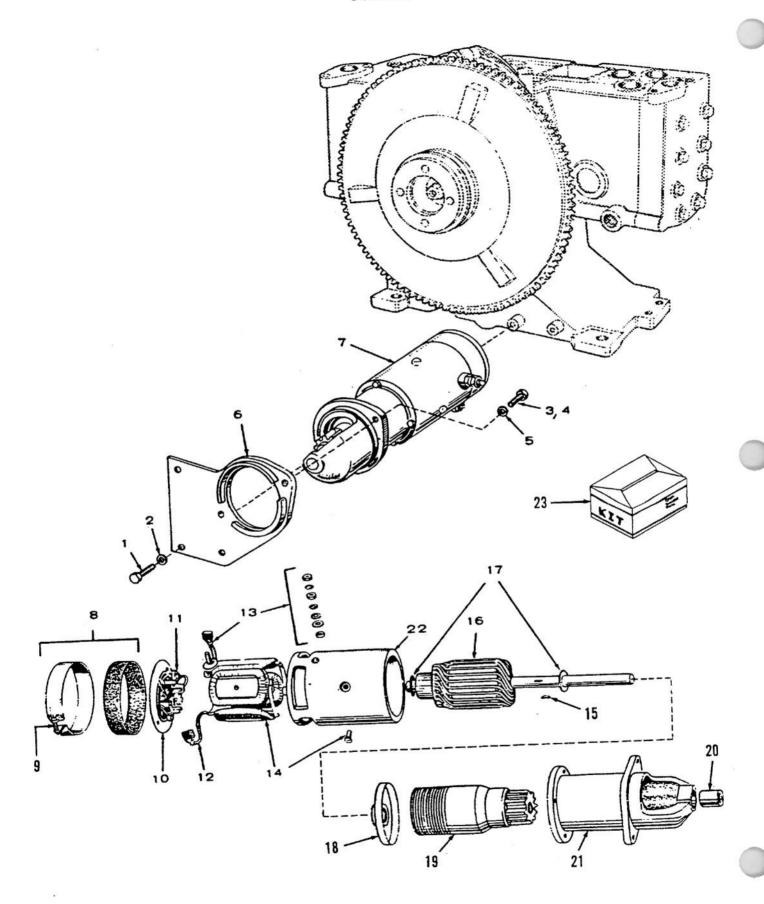
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0976	12	Clamp, Hose	25	850-0040	4	Washer, Lock - Spring (1/4")
2	503-0827	1	Connector, Hose	26	131-0270	1	Bracket, Mounting - Water
3	503-0696	1	Hose, Rubber $(1/2"ID \times 7")$,			Pump
4	503-0468	1	Hose, Rubber (1/2"ID x	· 27	148-0274	1	Bracket, Support - Hose
			13-1/2")	28	511-0073	1	Belt, Drive
5	503-0975	2	Hose, Rubber $(1/2"ID \times 6")$	29	800-0007	4	Screw, Cap - Hex Head
6	503-0434	1	Hose, Rubber $(1/2"ID \times 8")$				$(1/4-20 \times 1")$
7	502-0237	6	Elbow, Hose - 90°	30	850-0040	4	Washer, Lock - Spring (1/4")
8	502-0238	1	Connector, Hose	31	309-0185	2	Housing, Thermostat
9	503-1141	2	Clamp, Hose	32	309-0186	2	Gasket
10	155-1058	1	Elbow, Exhaust with Injector	33	309-0130	2	Thermostat
			Port	34	502-0029-05	2	Reducer, Bushing
11	505-0023	1	Bushing, Reducer	35	502-0153	1	Plug, Pipe - Hex Head, Brass
12	505-1344	1	Nipple, Pipe (Special)	36	502-0080	1	Plug, Pipe - Square Head,
13	502-0575	2	Elbow, Hose - 45'				Brass
14	502-0238	1	Connector, Hose	37	800-0029	4	Screw, Cap - Hex Head
15	502-0446	1	Tee, Pipe				$(5/16-18 \times 1-1/8")$
16	502-0426	1	Bushing	38	850-0045	4	Washer, Lock - Spring (5/16")
17	803-0062	2	Screw, Set - Socket	39	154-0973	2	Gasket, Manifold - Exhaust
			$(5/16-18 \times 5/16")$	40	154-2092	1	Manifold, Exhaust (Includes
18	512-0166	1	Pulley, Groove (Includes Set				Expansion Plugs)
			Screw)	41	517-0041	4	Plug, Expansion - Brass
19	870~0154	2	Nut, Hex (1/4-20)				(1-1/4" Dia.)
20	850~0160	2	Washer, Lock - Spring (1/4")	42	812-0145	2	Screw, Machine - Round Head
21	816-0090	2	Bolt, Carriage - Zinc Plate,				$(1/4-20 \times 5/16")$
			Grade 5 $(1/4-20 \times 1-1/4")$	43	854-0014	2	Washer, Lock - Internal Tooth
22	131-0257	1	Pump, Water - Complete (See				(1/4)
			Separate Illustration for	44	526-0016	2	Washer, Flat (1/4)
			Component Parts)	45	309-0257	1	Switch, High Temperature
23	131-0173	1	Adapter, Pump	46	502-0976	ī	Adapter
24	800-0005	4	Screw, Cap - Hex Head			-	
2		•	$(1/4-20 \times 3/4")$				

Water Pump Parts (131-0257)



REF	PART NO.	QTY USED	PART DESCRIPTION	REF	PART NO.	QTY USED	PART
140.	NO.	USED	DESCRIPTION	NU.	NO.	USED	DESCRIPTION
	131-0257	1	Pump, Water (Complete)	9	131-0217	1	*Plate, Wear - Water Pump
1	131-0212	1	Body, Pump - Water	10	131-0220	1	*Seal Assembly, Rotary
2	131-0222	1	*Shaft Assembly, Pump - Water	11	518-0373	1	*Ring, Retaining - Internal
3	131-0219	1	*Slinger, Shaft - Water Pump	12	NFS	1	#Housing (1/8" Mounting Flange
4	131-0210	1	*Gasket, Housing - Impeller	13	NFS	1	Housing (1" Mounting Flange
5	131-0386	1	*Impeller, Pump - Water	2620	0.00	307	for Replacement Order Kit
6	132-0229	1	Housing Kit, Impeller				132-0229)
			(Includes Parts Marked #)	14	815-0465	4	#Screw, Machine - Fillister
7	518-0392	1	*Ring, Retaining - External	75/11/2			Head (#10-32 x 3/8")
8	815-0477	4	Screw, Machine - Fillister Head (#10-32 x 1-1/8")	15	131-0258	1	Repair Kit, Pump - Water (Includes Parts Marked *)

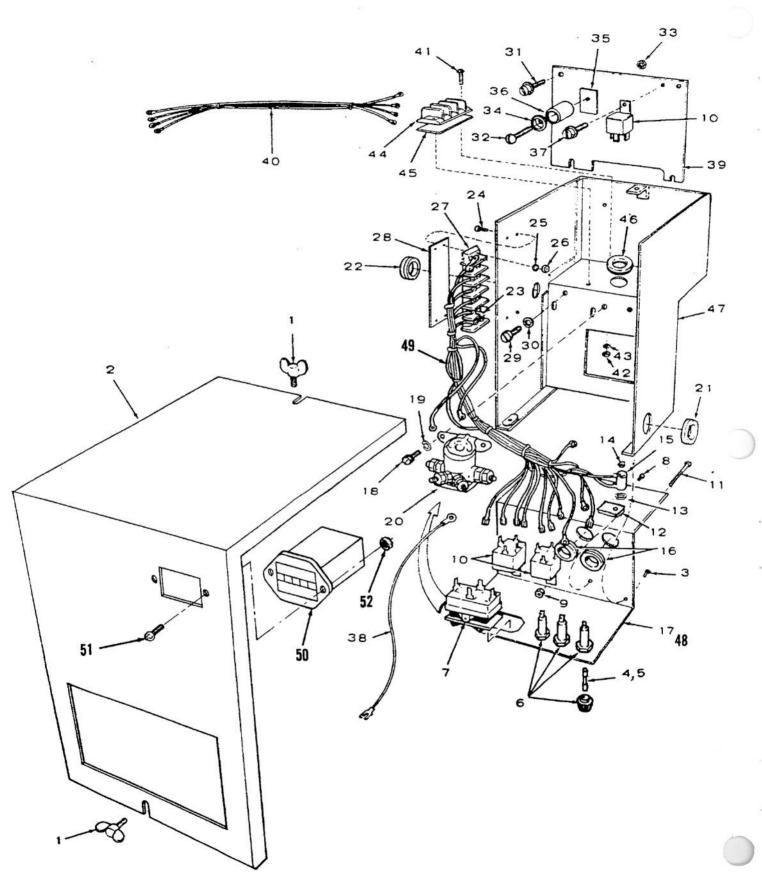
^{* -} Parts Included in 131-0258 Repair Kit



Starter

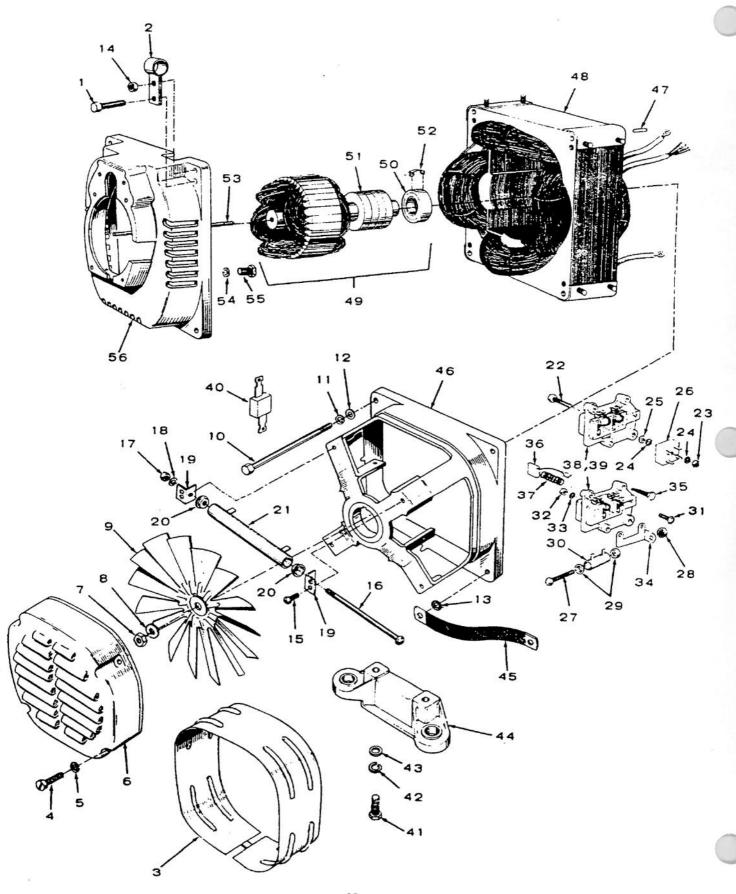
REF NO.	PART NO.	QTY	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0051	3	Screw, Cap - Hex Head	11	191-1020	1	*Spring Set, Brush
	050 0050	_	$(3/8-16 \times 1-1/4")$	12	191-0513	1	*Brush Set
2	850-0050	3	Washer, Lock - Spring (3/8")	. 13	191-1022	1	*Terminal Package
3	800-0049	1	Screw, Cap - Hex Head	14	191-1017	1	*Coil Assembly, Field
			$(3/8-16 \times 7/8")$	15	515-0094	1	Key, Woodruff (#6)
4	800-0050	1	Screw, Cap - Hex Head	16	191-0517	1	*Armature
			$(3/8-16 \times 1")$	17	191-1021	1	*Washer Package, Thrust
5	850-0050	2	Washer, Lock - Spring (3/8")	18	191-1019	1	*Bearing Assembly, Intermediate
6	191-0508	1	Flange, Mounting - Starter	19	191-0271	1	*Drive Assembly, Plated
7	191-1246	1	Starter, Sealed (Includes	20	191-0735	1	*Bearing, Sleeve - Bronze
			Parts Marked *)	21	NFS	1	*Pinion, Housing - (With Drain
8	191-1267	1	t*Band, Cover (Includes			•	Hole)
			Gasket and Hardware)	22	NFS	1	*Frame, Starter - Sealed Type
9	813-0110	1	tScrew, Round Head - Machine (#10-32 x 2")	23	191-1524	1	Band Kit - Starter (Includes Parts Marked t)
10	191-1018	1	*Head Assembly, Commutator				, = //

^{* -} Parts Included in 191-1246 Starter Assembly † - Parts Included in 191-1524 Starter Band Kit



Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	518-0056	2	Screw, Wing (#10-32 x 1/2")	28	332-2103	1	Shair Madhar
2	301-9199	1	Cover, Box - Control (Includes Decal)	29	800-0708	2	Strip, Marker Screw, Cap - Hex Head (Special)
	98-3733	1	Decal, Diagram - Wiring	. 30	850-0160	2	Washer, Lock - Spring (1/4")
3	821-0004	2	Screw, Self-locking - Hex Washer Head (#10-32 x 5/16")	31	821-0004	2	Screw, Self-locking - Hex Washer Head (#10-32 x 5/16")
4	321-0174	2	Fuse, Cartridge - 5 Ampere (F1, F2)	32	813-0112	1	Screw, Machine - Round Head (#10-32 x 2-1/2")
5	321-0153	1	Fuse, Cartridge - 5 Ampere (F3)	33	870-0131	1	Nut, Hex - With External Tooth Lockwasher (#10-32)
6	321-0175	3	Holder, Fuse	34	304-0014	1	Washer, Shoulder - Resistor
7	308-0383	1	Switch, Toggle - Start/Stop				Centering
			(S1)	35	304-0292	1	Insulator, Mounting - Resistor
8	821-0004	2	Screw, Self-locking - Hex Washer Head (#10-32 x 5/16")	36	304-0060	1	Resistor, Fixed - 1.72-Ohm, 25 Watt (R3)
9	870-0131	2	Nut, Hex - With External Tooth Lockwasher (#10-32)	37	815-0350	1	Screw, Tapping - Hex Washer Head (#10 x 3/8")
10	307~1575	3	Relay, Crank/Run/Stop - K2,3,4	38	336-4678	1	Lead, Electrical (Solenoid to Starter)
11	812-0087	1	Screw, Machine - Round Head	39	301-4887	1	Plate, Mounting - Relay
			(#8-32 × 1-1/2")	40	338-1099	1	Harness, Wiring - Generator
12	304-0580	1	Insulator, Mounting - Resistor				to Control
13 14	508-0015 870-0221	1 1	Insulator, Washer Nut, Hex - With External	41	812-0066	2	Screw, Machine - Round Head (#6-32 x 3/4")
			Tooth Lockwasher (#8-32)	42	860-0005	2	Nut, Hex (#6-32)
15	352-0161	1	Resistor, Fixed - 100-Ohm, 5 Watt (R1)		853-0003	2	Washer, Lock - External Tooth (#6)
16	331-0088	2	Insulator, Bushing	44	332-0236	1	Block - Terminal - TB2
17	301-4879	1	Panel, Control	45	332-2117	ī	Strip, Marker
18	800-0708	2	Screw, Cap - Hex Head	46	508-0191	1	Insulator, Bushing
			(Special)	47	301-4634	1	Box, Control
19	850-0160	2	Washer, Lock - Spring (1/4)	48	98-5966	1	Decal, Panel - Control
20	307-1617	1	Solenoid (K1)	49	338-1264	ĩ	Harness, Wiring - Control
21	508-0021	1	Grommet, Rubber				(Includes Relays, Resistor
22	508-0208	1	Insulator, Bushing				and Terminal Block)
23	332-1043	2	Jumper, Terminal	50	302-0885	1	Meter, Time - Running
24	812-0065	2	Screw, Machine - Round Head (#6-32 x 5/8")	51	815-0385	2	Screw, Machine - Round Head (#6-32 x 1/2")
25	854-0006	2	Washer, Lock - Internal Tooth (#6)		870-1183 525-0216	2 1	Nut, Hex - W/ET (#6-32) Paint, Touch-Up - White
26	860-0005	2	Nut, Hex (#6-32)	-	020 0210	•	Enamel (16 oz. Spray Can)
27	332-0699	1	Block, Terminal - TB1				chamer (10 02. Spray can)



Generator

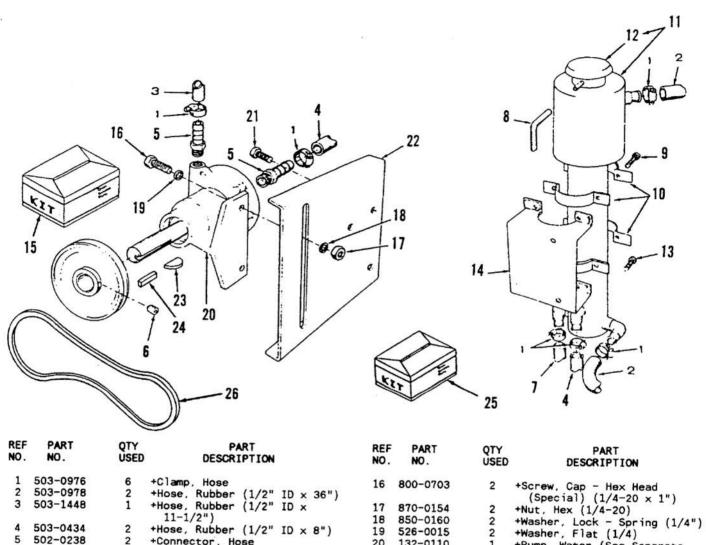
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0454	4	Screw, Tapping - Hex Head (5/16-18 x 1-1/4")	31	812-0066	2	*Screw, Machine - Round Head With External Tooth
2	403-1500	2	Bracket, Lifting	8			Lockwasher (#6-32 x 3/4")
3	234-0362	1	Wrapper, Bell - End	32	860-0005	2	*Nut, Hex (#6-32)
4	812-0156	2	Screw, Machine - Round Head (1/4-20 x 1-1/4")	33	853-0003	2	*Washer, Lock - External Tooth (#6)
5	850-0040	2	Washer, Lock - Spring (1/4")	. 34	304-0304	2	*Bracket, Mounting - Resistor
6	232-2107	1	Cover, Fan - Generator	35	815-0359	15	Screw, Tapping - Hex Washer
7	870-0203	1	Nut, Hex - Hardened (7/16-20)				Head (#10-32 × 7/8")
8	850-0055	1	Washer, Lock - Spring (7/16")	36	214-0096	8	Brush, Ring - Collector
9	205-0090	1	Fan, Generator	37	212-1232	8	Spring, Brush
10			Screw, Cap - Hex Head (Through Generator)	38	212-0359	2	Block, Brush - Generator (Bottom and Right Side
	800-0043	4	3.5MCCK; 4.0MCCK				Position)
			$(5/16-18 \times 5")$	39	212-0360	2	Block, Brush - Generator
	800-0044	4	5.5MCCK; 6.5MCCK				(Top and Left Side Position)
			$(5/16-18 \times 7-1/2")$	40	357-0030	1	Rectifier, Diode - CR2
11	850-0045	3	Washer, Lock - Spring (5/16")	41	800-0051	2	Screw, Cap - Hex Head
12	526-0115	4	Washer, Flat (5/16)				$(3/8-16 \times 1-1/4")$
13	856-0008	1	Washer, Lock - External	42	850-0050	2	Washer, Lock - Spring (3/8")
			Tooth (5/16")	43	526-0030	2	Washer, Flat (3/8)
14	862-0015	4	Nut, Hex (5/16-18)	44	232-2321	1	Support, Generator
15	815-0333	2	Screw, Tapping - Round Head	45	337-0091	1	Strap, Bond
			(#10-32 × 1/2")	46	211-0364	1	Bell, End - Generator
16	812-0118	1	Screw, Machine - Round Head	47	516-0182	8	Pin, Dowel (1/4" OD x 3/4")
			$(#10-24 \times 5")$	48			Stator, Generator
17	860-0011	1	Nut, Hex (#10-24)		220-3050	1	3.5MCCK; 4.0MCCK - Key 1
18	850-0030	1	Washer, Lock - Spring (#10)		220-3049	1	5.5MCCK; 6.5MCCK - Key 2
19	304-0706	2	Bracket, Mounting - Resistor	49			Rotor, Generator (Includes
20	304-0015	2	Washer, Centering - Resistor				Bearing and Collector Rings)
21	353-0092	1	Resistor, Fixed		201-2704	1	6.5MCCK - Key 2
22	815-0341	1	Screw, Machine - Round Head		201-2705	1	5.5MCCK - Key 2
			(#10-32 × 1")		201-2706	1	4.0MCCK - Key 1
23	871-0010	1	Nut, Hex (#10-32)		201-2707	ī	3.5MCCK - Key 1
24	853-0008	2	Washer, Lock - External Tooth	50	510-0047	1	Bearing, Ball
			(#10)	51	204-0110	1	Ring, Collector
25	526-0049	2	Washer, Flat (#10)	52	232-0596	1	Clip, Retaining - Bearing
26	305-0653	1	Rectifier, Bridge - CR1	53			Stud, Through - Rotor
27	813-0112	2	*Screw, Machine - Round Head		520-0732	1	3.5MCCK; 4.0MCCK - Key 1
			$(#10-32 \times 2-1/2")$		520-0733	1	5.5MCCK; 6.5MCCK - Key 2
28	870-0131	2	*Nut, Hex with External Tooth	54	850-0050	4	Washer, Lock - Spring (3/8")
		10.00	Lockwasher (#10-32)		800-0050	4	Screw, Cap - Hex Head
29	304-0014	4	tWasher, Shouldered - Resistor				(3/8-16 x 1")
			Centering	56	231-0164	1	Adapter, Generator to Engine
30	353-0091	2	*Resistor, Fixed	o≡.∞.		×.=	

^{* -} Prior to Serial #399168 During Spec H Quantity-(1) † - Prior to Serial #399168 During Spec H Quantity-(2)

OPTIONAL PARTS SECTION

This section contains illustrated parts listing of factor installed options for the generator sets. Options may not be applicable to all models; for field conversions additional parts are usually required. Optional parts listed in this section are in addition or in place of those shown in the standard parts section.

Heat Exchanger Cooling System

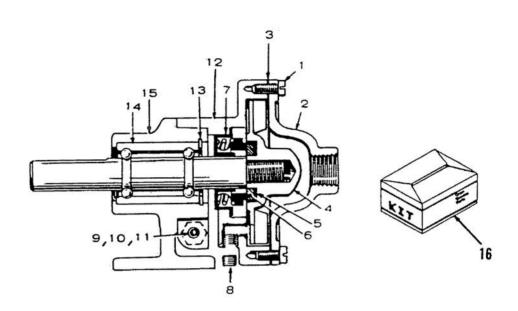


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0976	6	+Clamp, Hose	16	800-0703	2	+Sanay Can - Hay Hand
2	503-0978	2	+Hose, Rubber (1/2" ID x 36")		000 0100	~	+Screw, Cap - Hex Head
3	503-1448	1	+Hose, Rubber (1/2" ID x	17	870-0154	2	(Special) (1/4-20 x 1") +Nut, Hex (1/4-20)
	500 0404		11-1/2")	18	850-0160	2	+Washer, Lock - Spring (1/4")
4	503-0434	2	+Hose, Rubber $(1/2" ID \times 8")$	19	526-0015	2	+Washer, Flat (1/4)
5 6	502-0238 803-0062	3	+Connector, Hose +Screw, Set - Socket	20	132-0110	1	+Pump, Water (See Separate Illustration for Parts)
7	503-0713	1	(5/16-18 x 5/16") +Hose, Rubber (1/2" ID x	21	821-0016	3	+Screw, Self-locking - Hex Head (5/16-18 x 3/4")
			25-1/2")	22	130-1397	1	+Bracket, Mounting - Water
8	503-0492	1	+Hose, Rubber (5/16" ID x 26")	13.00	100	-	Pump
9	821-0013	4	+Screw, Self-locking - Hex Head (1/4-20 x 1")	23	515-0227	1	Key Kit, Woodruff (Kit) (Use on 132-0110 Water Pumps with
10	130-0632	4	+Strap, Retaining - Heat				Key Way on Shaft)
11	130-1394	1	Exchanger +Exchanger, Heat (Includes Cap	24	515-0249	1	+Key, Machine (Use on 132-0179 Water Pump Assembly)
12	130-0824	1	+Cap, Pressure (14 lb)	25	130-1429	1	Conversion Kit, Exchanger -
13	821-0010	2	+Screw, Self-locking - Hex				Heat
14	130-1393	1	Head (1/4-20 x 1/2") +Plate, Mounting - Heat Exchanger	26	511-0039	1	+Belt, Drive
15			Pulley Kit, Pump - Water (Includes Set Screw)	+ -	Parts Inclu	ded in	130-1429 Heat Exchanger Kit
	512-0134	1	Sets with Flat Area on Water Pump Shaft (Includes				

+Sets with Keyed Area on Water Pump Shaft (Includes 2 Set Screws)

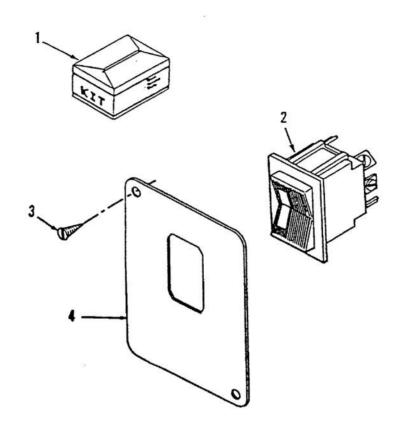
132-0252

Water Pump Parts (132-0110)



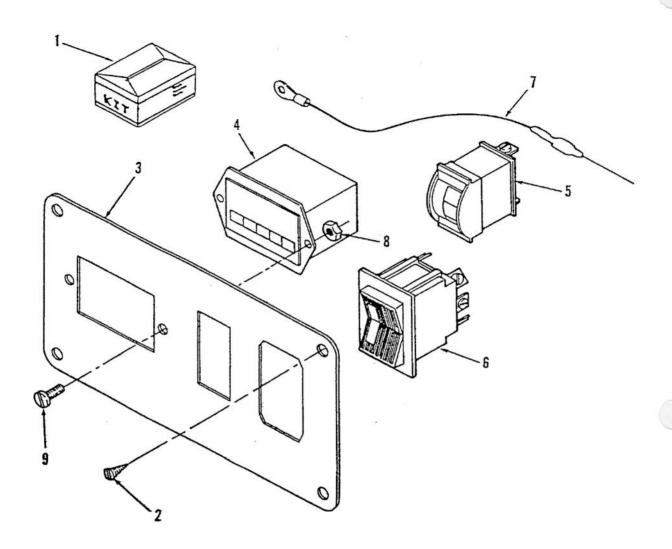
REF NO.	PART NO.	QTY	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	132-0110 132-0113	1 6	Pump, Water *Screw, Cap - Hex Head	10	132-0139	1	Washer, Lock - Spring (Special)
			Slotted (Special)	11	132-0140	1	Nut, Hex (Special)
2	132-0137	1	Cover, Pump - Water	12	NFS	1	Body, Pump
3	132-0112	1	*Gasket	13	132-0132	1	Ring, Retaining
4	132-0114	1	*Impeller	14	132-0225	1	*Bearing & Shaft Assembly
5	132-0092	1	*Seat	15	132-0142	ī	Pedestal, Pump
6	132-0091	1	*Ring, Wear	16	132-0111	ī	Repait Kit (Includes Parts
7	132-0101	1	*Seal Assembly			-	Marked *)
8	132-0141	1	Plug, Pipe - Socket Drive				marked)
9	132-0138	ī	Screw, Cap - Hex Head (Special)	* -	Parts Incl	uded in	132-0111 Repair Kit

Remote Control Panel (Basic)



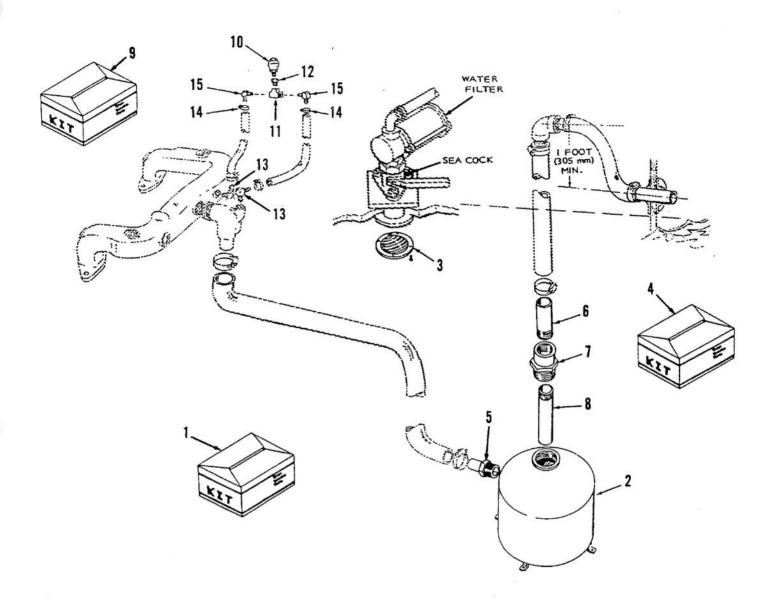
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-3468	1	Panel Kit, Control - Remote (Includes Parts Marked *)	4	319-0491	1	*Panel, Control (Does Not Include Front & Back Decals)
2	308-0827	1	*Switch, Rocker		98-5946	1	Decal Panel - Rear
3	815-0380	2	*Screw, Wood - Oval Head Cross Recessed (#5 x 1/2")		98-5949	ī	Decal, Panel - Front

Remote Control Panel (Deluxe)



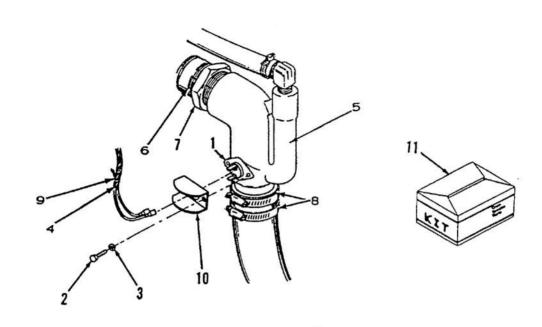
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-3467	1	Panel Kit, Control - Remote	4	302-0885	1	*Meter, Totalizing - Time
			(Includes Parts Marked *)	5	302-0888	1	*Meter, Condition - Battery
2	815-0380	4	*Screw, Wood - Oval Head,	6	308-0827	1	*Switch, Rocker
			Cross Recessed (#5 x 1/2")	7	359-0034	1	*Diode and Lead Assembly
3	319-0492	1	*Panel, Control (Does Not	8	870-0183	2	*Nut, Hex (#6-32)
			Include Front & Back Decals)	9	815-0385	2	*Screw, Machine - Round Head
	98-5944	1	Decal, Panel - Rear			5972	(6-32 × 1/2")
	98-5946	1	Decal Panel - Front				(* ** ** ** ** ** ** ** ** ** ** ** ** *

Aqualift Exhaust System



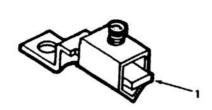
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-1004	1	Muffler Kit, Aqualift	8	505-0632	1	*Nipple, Pipe - Half, PVC
			(Includes Parts Marked *)	9	155-0950	1	Relief Kit, Break - Siphon
2	NFS	1	*Muffler, Aqualift (For	10	504-0062	1	+Valve, Relief - Vacuum
			Replacement, Order Kit	11	502-0090	1	+Tee, Pipe - Brass
			155-1004)	12	502-0270	1	+Adapter, Pipe
3	155-1002	1	*Strainer, Water - Thru Hull	13	502-0237	2	+Elbow, Pipe to Hose
4	155-0955	1	Mounting Kit, Muffler	14	503-0446	2	Clamp, Hose (1/2")
			(Includes Parts Marked *)	15	505-1346	2	+Elbow, Hose - 90°
5	155-1121	1	*Inlet Assembly, Epoxy Coated				2010 01 45 45 7 20 0 TO 10 10 10 10 10 10 10 10 10 10 10 10 10
6	505-0721	1	*Nipple, Pipe - Half				
7	505-0635	1	*Bushing, Double Tapped	٠ -	Parts Incl	uded in	Kit #155-1004
45							Package #155-0955
				+	Parts Inch	uded in	Kit #155-0950

High Exhaust Temperature Cut-Off Switch



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION				
1	309-0420	1	*Switch, Cut-Off - High Exhaust Temperature	8	503-1141 332-1794		*Clamp, Hose				
2	815-0569	2	*Screw, Crescent (6-32 x 5/16")	10	309-0501		*Tie, Wire				
3	854-0008	2	*Washer, Lock (IT #6)	11	309-0421	1	*Shield, Switch - Temperature				
4	338-1413	1	*Harness, Wiring	11	303 0421	1	Switch Kit, Cut-Off				
5	155-1058	1	*Elbow, Exhaust				(Includes Parts Marked *)				
6	505-1344		*Nipple, Pipe								
7	505-0023	1	*Reducer, Bushing	* -	- Parts Included in 309-0421 High Exhaust						

Miscellaneous Optional Parts





REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	60.0	TY ISED	PART DESCRIPTION
1 2	332-0142 110-1827	1	Terminal, Solderless Guide, Valve (To Stop Oil					
10.00		572	Seepage)					

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







LOCK (IT)



EXTERNAL-INTERNAL TOOTH LOCK (EIT)



COUNTERSUNK EXTERNAL TOOTH LOCK



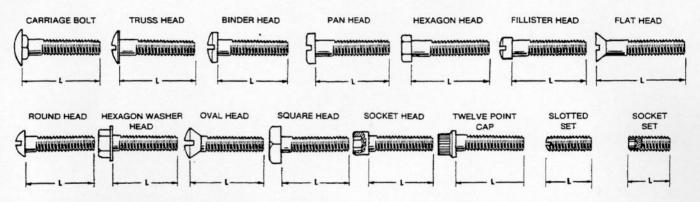
SPRING LOCK



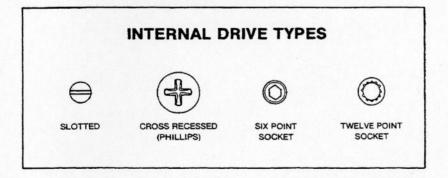
*FLAT

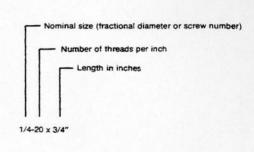
 Flat washer dimensions given are: Inside Diameter (ID), Outside Diameter (OD) and Thickness (Thk).

BOLT AND SCREW TYPES



L - Measure length between these points.





NUT TYPES











FULL HEXAGON

JAM HEXAGON

HEXAGON WASHER

SQUARE

WING

ACORN

