

Parts Manual



Our energy working for you.™

Generator Set 50/60Hz

EK (Spec A-W) EM (Spec A-W)

Introduction

This Parts Manual applies to the Standard 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 of the parts lists or page heading, 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 engine end (FRONT) of the Set.

Set Data Table

MODEL IDENTIFICATION	RATING	RPM RATING	BATTERY VOLTAGE
25.0EK - */ # @ 30.0EK - */ # @ 35.0EK - */ # @ 37.5EM - */ # @ 45.0EM - */ # @	25,000 WATTS 30,000 WATTS 35,000 WATTS 37,500 WATTS 45,000 WATTS	1500 RPM 1800 RPM 1800 RPM 1500 RPM 1800 RPM	24 VDC 24 VDC 24 VDC 24 VDC 24 VDC 24 VDC

Electrical Data Table

*VOLTAGE CODES	VOLTS	HERTZ	WIRE	PHASE	NOTES
B (3) E (6D) F (7) H (9X) L (15) L (15)	120/240 240/480 220/380 347/600 120/240 120/208 120/240 127/220 139/240 240/416	60 60 60 60 60	3 4 4 4 12 12	1 3 3 1 3	•
N (53) P (53C) Z (515) Z (515)	254/440 254/440 227/480 120/240 120/240 110/220 115/230 110/190 115/200 115/230 120/208 127/220 220/380 230/400 240/416 254/440	50 50 50	3 4 12 12	1 1 1 3	

- Voltage codes follow model letters designations.
 Specification Number: Number 1 is Standard, all others indicate variations.
 Specification Letter: Letter advances (A to B, B to C, etc) with major manufacturing changes.
- The Stators are Reconnectible.

Engine Replacement Parts

All engine replacement parts must be ordered from the engine manufacturer, except those modified or added by Onan. When ordering engine parts, refer to the manufacturer's nameplate and supply the Model, Spec, Serial Numbers and other available information. Refer to the engine manufacturer's manuals for your nearest authorized distributor or parts center; or contact the Onan distributor from whom you purchased this set for assistance in ordering replacement parts.



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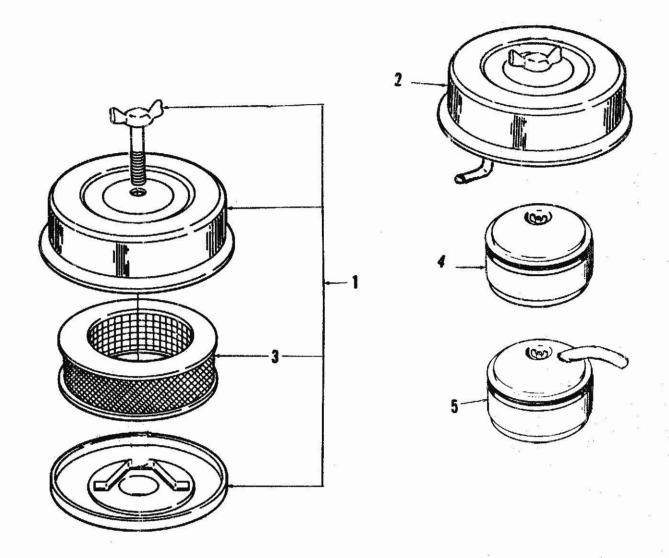
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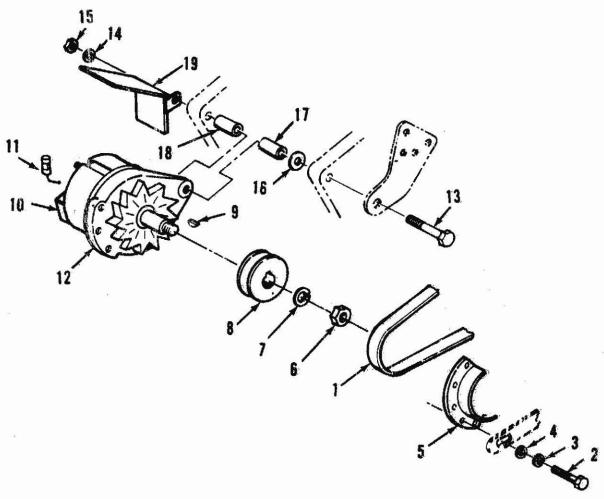
Air Cleaner



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION	, i
1	140-1083	1	Cleaner, Air (Includes Element)	3 4	140-1089 140-0261	1	Element Cleaner, Air - Oil Ba	th
2	140-1583	1	Cleaner, Air with Breather Snorkel (Includes Element)	5	140-0379	1	Cleaner, Air - Oil Bar Breather Snorkel	th with



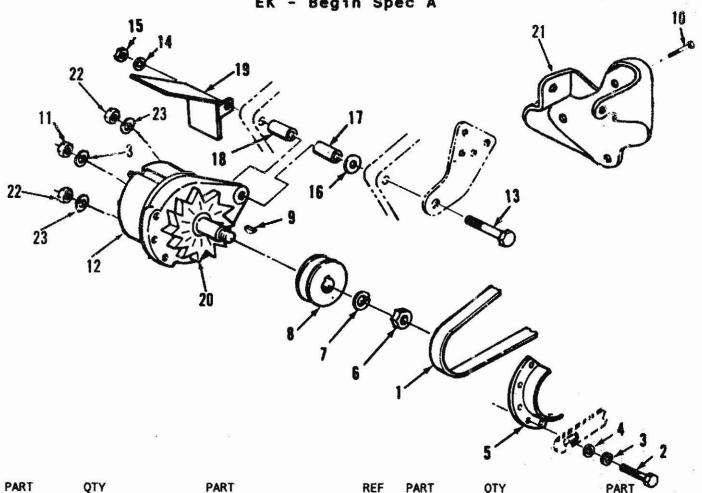
Alternator EK,EM - Spec C thru P



REF NO.	PART NO.	OTY	PART DESCRIPTION	REF NO.	PART NO.	OTY	PART DESCRIPTION
1	511-0074	1	Belt, Drive	14	850-0055	1	Washer, Lock - Spring (7/16")
2	800-0027	1	Screw, Cap - Hex Head	15	862-0004	1	Nut, Hex (7/16-14)
	16		(5/16-18 × 7/8")	16	526-0100	1	Washer, Flat (1/2")
3	850-0045	1	Washer, Lock - Spring (5/16")	17	191-0571	1	Spacer, Sleeve (1-13/16"LG)
4	526-0030	1	Washer, Flat (3/8")	18	191-0716	1	Spacer, Sleeve (2-3/4"LG)
5	191-0725	1	Guard, Belt	19	191-0578	1	Shield, Heat
6	191-0941	1	Nut. Hex (5/8-18)			37	*
7	850-0070	1	Washer, Lock - Spring (5/8")		,		*
8	191-0623	1	Pulley	#	No longer a	availabi	e. for replacement, order
9	515-0093	1	Key, Woodruff (#5)		kit 191-18'		
10	191-1390	1	Regulator, Voltage	*	For replace	ement pa	rts, contact the Distribution
11	312-0201	1	Capacitor				lite Electric, Inc., Arlington
12	#191-1388	1	*Alternator - 12 VDC				and provide the model number
13	800-0084	1	Screw, Cap - Hex Head (7/16-14 x 4-1/2")		of alternat		



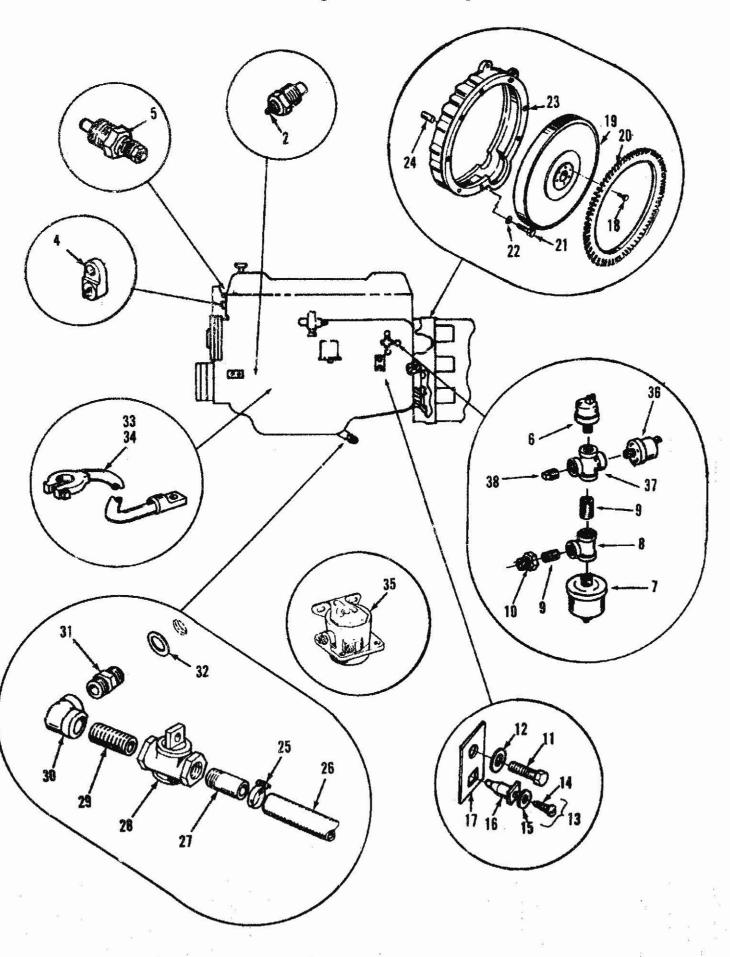
Alternator EK,EM - Begin Spec R EK - Begin Spec A



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Belt, Drive	14	850-0055	1	Washer, Lock - Spring
	511-0074	1	Specs R,S				(7/16")
	511-0175	2	Begin Spec T, Begin Spec A	15			Nut, Lock (M10)
2			Screw, Cap - Hex Head		862-0004	1	Spec R
	718-1037	1	Spec R		870-2056	1	Begin Spec S, Begin Spec A
	718-1040	1	Spec S	16	526-0100	1	Washer, Flat (1/2")
	718-1039	1	Begin Spec T, Begin Spec A	17			Spacer, Sleeve
3	850-2008	2	Washer, Lock - Spring (M8)		191-0571	1	Spec R
4	526-2106	1	Washer, Flat (M8)		191-2034	1	Begin Spec S, Begin Spec A
5	191-0725	1	Guard, Belt	18	191-0716	1	Spacer, Sleeve (2-3/4"LG)
6			Nut, Hex	19	191-0578	1	Shield, Heat
	191-0941	1	Specs R (5/8"-18)	20	191-1981	1	Fan (Begin Spec S. Begin
	870-2161	1	Begin Spec S, Begin Spec A				Spec A
			(M16)	21			Bracket, Mounting -
7			Washer, Lock				Alternator
	850-0070	1	Specs R (5/8")		191-1410	1	Spec R
	851-0039	1	Begin Spec S, Begin Spec A		191-2061	1	Begin Spec S, Begin Spec A
			(M16)	22	860-2006	2	Nut, Hex (M5) (Begin
8			Pulley, Alternator				Spec S, Begin Spec A
	191-0623	1	Single Groove - Spec R	23			Washer
	191-2032	1	Single Groove - Spec S		850-2005	2	Lock - Begin Spec S, Begin
	191-2035	1	Double Groove - Begin				Spec A (M5)
			Spec T, Begin Spec A		526-210 6	1 .	Flat - Begin Spec T (#8)
9	515-0093	1	Key, Woodruff (#5)			¥.	
10	191-1411	3	Bolt, Hex Lock		*		
			$(3/8-16 \times .75")$	-			1 2000 E
11	860-2008	1	Nut, Hex (M8) Begin	*	For replace	ment pa	rts, contact the Distribution
			Spec S, Begin Spec A				lite Electric, Inc., Arlington
12		N	Alternator - 12 VDC				and provide the model number
	191-1983-01	1	#Begin Spec S, Begin Spec A Does Not Include Fan)		of alternat	or.	
	191-1872	1 .	*Spec R		0. 8	18	
13		86	Screw, Cap - Hex Head			9	
	800-0084	1	Spec R	# -	For replace	ment par	rts, contact Bosch. The
	800-2101	1	Begin Spec S, Begin Spec A		Alternator	is a Bo	sch 0 120 488 205.



Miscellaneous Engine Parts - Right Side





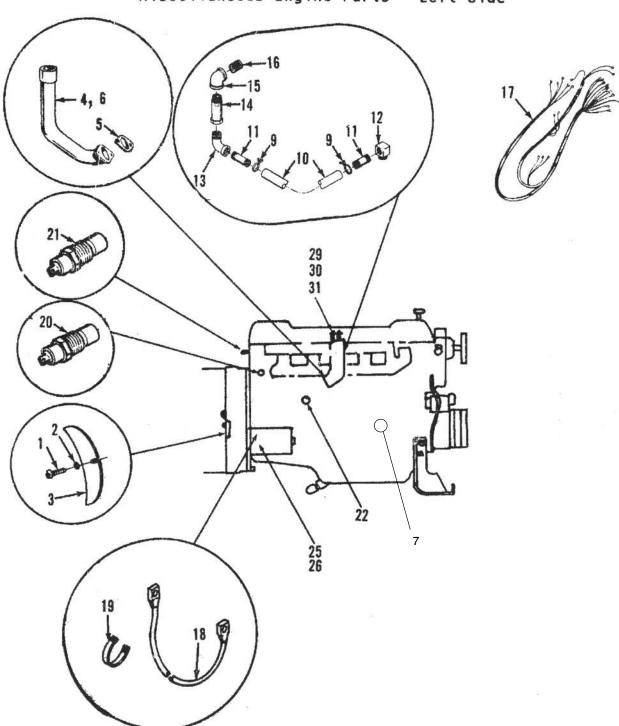
Miscellaneous Engine Parts - Right Side

REF		QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2			Sonder, Temperature -		149-2304	1	Pump, Fuel (Ford Part Number D2TE-9350-RA) (Not Illustrated)
-			Oil E4		102-1330	1	Pan, Oil - Begin Spec R
	193-0353	1	Begin Spec P		102 1000	-	(Not Illustrated)
	193-0249	î	Spec J Thru R	21			Screw, Cap - Hex Head
	193-0188	ĩ	Spec C Thru H		800-0071	6	7/16-14 × 1"
		_			800-0073	2	7/16-14 x 1-1/2" - Begin
4	309-0269	1	Switch, Temperature -			-	Spec T
			Engine S5	22	850-0055	6	Washer, Lock - Spring
	800~0051	1	Screw, Cap - Hex Head			-	(7/16")
			$(3/8-16 \times 1-1/4")$	23	231-0148	1	Adapter, Generator
	850-0050	1	Washer, Lock - Spring	24	516-0167	1	Pin, Alignment
			(3/8")	25	503-0131	1	Clamp, Hose
	526~0029	1	Washer, Flat (3/8")	26	503-0891	1	Hose, Rubber
5			Sender, Temperature - Water E2	27	505-0135	1	Nipple, Pipe - Half (3/8 NPT x 1-1/2"LG)
	193-0318	1	Spec J Thru R - Begin	28	504-0030	1	Valve (3/8 NPT)
			Spec T	29	505-0101	1	Nipple, Pipe - Close
5.0	193-0104	1	Spec C Thru H				(3/8 NPT x 1"LG)
6	309-0561-01	1	Switch, Pressure - Oil (Shut-down) 1 Terminal -	30	505-0039	1	Elbow, Pipe - 90 DEG (3/8 NPT)
			Normally Closed	31	102-0652	1	Adapter, Pipe - Hex
7			Sender, Pressure - 011	32		1	Gasket, Oil Drain
	193-0244	1	E1 Begin Spec J	33	416-0021	1	Cable, Battery - Positive (20-1/2"LG)
_	193-0108	1	Spec C Thru H	34	416-0613	1	Cable, Battery - Negative
	505-0059	1	Tee, Pipe (1/8 NPT)				(10"LG)
9	505-0098	2	Nipple, Pipe - Close (1/8 NPT)		800-0069	1	Screw, Cap - Hex Head (7/16-14 x 3/4")
10	505-0007	1	Bushing, Reducer - Hex (1/4 NPT x 1/8 NPT)		850-0055	1	Washer, Lock - Spring (7/16")
11	800-0026	1	Screw, Cap - Hex Head (5/16-18 x 3/4")		856-0012	1	Washer, Lock - E1T (7/16")
12	856-0008	1	Washer, Lock - EIT (5/16")	35			Solenoid, Start - 12 VDC K6
13	332-1292	1	Board, Terminal (Includes		307-1166	1	Begin Spec P
			Parts Marked *)		307-1031	1	Spec C thru N
14	809-0036	1	*Screw, Round Head (#8 x 7/8")		800-0005	2	Screw, Cap - Hex Head (1/4-20 x 3/4")
15	508-0015	1	*Washer, Insulating (#8)		850-0040	2	Washer, Lock - Spring
	870-0196	1	*Nut, Insulating (#8)				(1/4")
	332-1281	1	*Plate, Mounting - Terminal	155 (57.00.00)	862-0001	2	Nut, Hex (1/4-20)
	104-0745	6	Bolt, Cap - Hex Head	36	309-0561-05	1	Switch, Pressure - Oil
19	104-0719	1	Flywheel (Includes Ring				(Pre-LOP)
20	104-0723	1	Gear) Gear, Ring	37 38	505-0059 505-0057	1 1	Cross, Pipe (1/8 NPT) Plug, Pipe (1/8" NPT)

^{* -} Parts included in Terminal Board.



Miscellaneous Engine Parts - Left Side





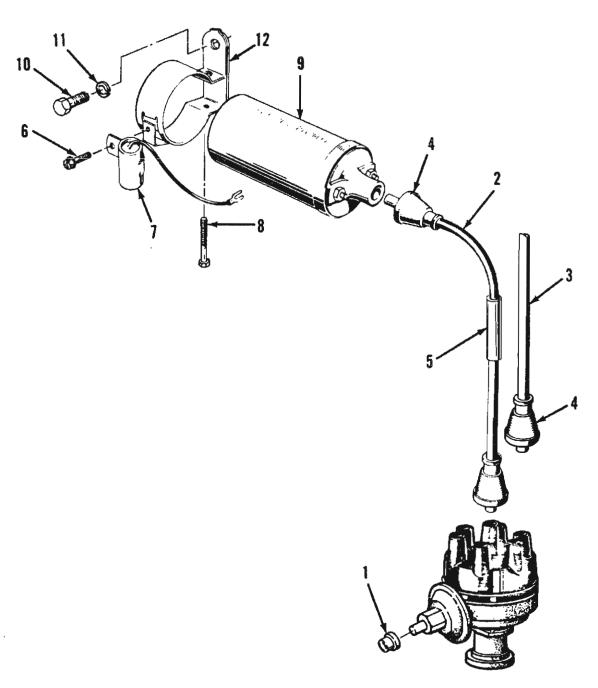
Miscellaneous Engine Parts - Left Side

REF	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	812-0077	1	Screw, Machine - Round	18	336-3064	1	Cable, Electrical
			Head (#8-32 \times 3/8")		800-0004	1	Screw, Cap - Hex Head
2	850-0025	1	Washer, Lock - Spring (#8)				$(1/4-20 \times 3/4")$
3	191-0773	1	Cover, Starter		850-0040	1	Washer, Lock - Spring
4	155-1107	1	Tube, Exhaust Spec C				(1/4")
			Thru M		526-0214	1	Washer, Flat (1/4")
	870-0203	2	Nut, Hex (7/16-20)	19	416-0096	3	Clamp, Cable - Battery
	520-0404	2	Stud (7/16-20 x 7/16-14 x 1-11/16"LG)	20			Switch, Thermostatic - Water S2 (Shutdown)
5	155-0923	1	Gasket Spec C Thru M		309-0312	1	Begin Spec J
6	155-1993	1	Tube, Exhaust - Begin		309-0179	1	Spec C Thru H
			Spec N	21	309-0178	1	Switch, Thermostatic -
7	122-0193	1	Filter, Oil				Water S7 (Pre-Alarm)
9	503-0614	2	Clamp, Hose	22	504-0003	1	Cock, Drain
10	503-0890	1	Hose, Rubber				
11	505-0302	2	Nipple, Pipe - Half				
			$(1/4 \text{ NPT} \times 1-1/2"LG)$	25	191-2117	1	Starter
12	123-1044	1	Adapter, Breather	26	191-1407	2	Bolt and Washer $(3/8 \times 1-3/8")$
13	505-0011	1	Elbow, Pipe - Street, 90 DEG (1/4 NPT)				
14	123-0910	1	Valve - Breather	29	520-0311	2	Stud, Steel
15	505-0038	1	Elbow, Pipe - 90 DEG	30	854-0020	2	Washer, Lock - EIT (3/8")
			(1/4 NPT)	31	104-0091	2	Nut, Hex (3/8-24)
16	505-0071	1	Nipple, Pipe (1/4 NPT x 2"LG)				
17			Harness, Wiring				
	338-0533	1	Engine to DC Control with 5 Fault Lights				
	338-0628	1	Spec C Thru N				9
	338-1962	1	Spec P				
	338-2675	1	Begin Spec S (Use with Bosch Alternator)				
	166-0727	1	Spec R	9		1	





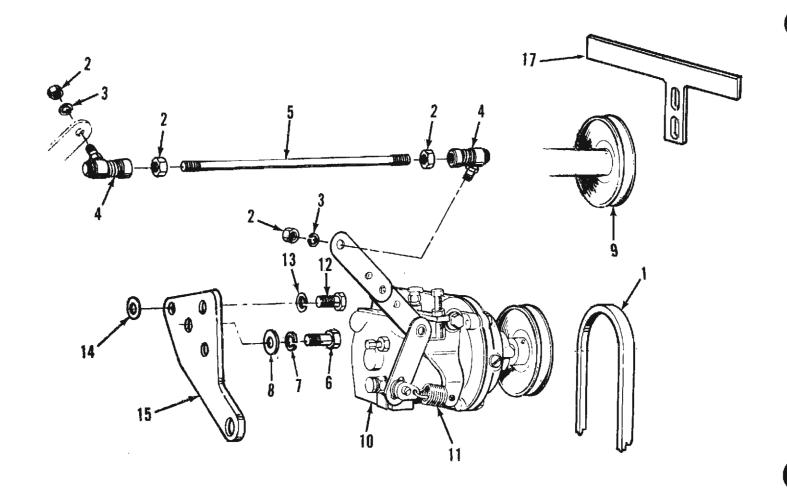
Ignition System - Spec C Through N



REF NO.	PART NO.	OTY USED	PART DESCRIPTION		REF NO.	PART NO.		QTY USED	PART DESCRIPTION
1	517-0090	<u>.</u>	Plug, Distributor Vacuum Advance	6	815050	04	ì		apping - Hex Wasner 6 x 3/8")
2	167-1528	_	Cable, Coil to Distributor	7	312-005	8	1	Capacito	r
Ĵ	167-1532	Ĺ	Set, Cable - Spark Plug (Includes As Follows)	8	166-028	36	1	Screw, S Bracket	pecial - Coll
	167-1525	1	Cylinder #1	9				Coii, Ia	nition
	167-1526	1	Cylinder #2		166-026	88	ī	Six Vo	ìt
	167-1527	í	Cylinder #3		166-027	78	ĩ	Tweive	Voit
	167-1529	:	Cylinder #4	10	800-002	26	ī	Screw, C	ap - Hex rlead
	167-1530		Cylinder #5					(5/17-18	8 × 3/4"}
	167-1531	1	Cylinder #6	11	850-004	5	1	Wasner,	Lock - Spring (5/16")
4	160-0558	8	Nipple, Caple	12	160-104	15	ì		Mounting
5	314-0006	1	Suppressor Ignition						

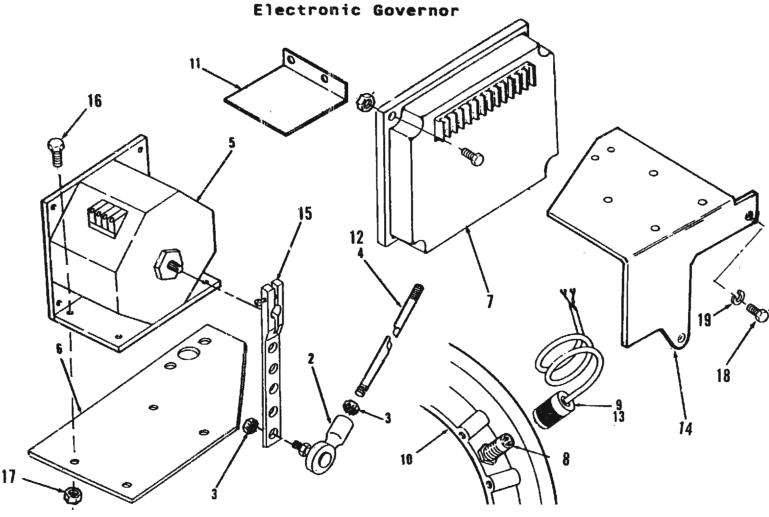


Mechanical Governor



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Belt, Drive	7	850-0050	3	Washer, Lock - Spring (3/8")
	511-0077	1	Dry Manifold Set38"	8	526-0030	3	Washer, Flat (3/8")
			Width (Used Thru	9			Pulley, Water Pump
		•	October 1987)		512-0051	1	Governor Drive - Spec C-R
	511-0164	1	Dry Manifold - 3/8" Width		130-3930	1	Water Pump - 3-Groove Begin
			- 28.5 " Long (Used				Spec S
			Begin November 1987)	10			Governor (Includes Pulley)
	511-0078	1	Wet Manifold Set -		151-0312	1	Spec C-R
			13/32" Width		150-2495	1	Begin Spec T - 35EK-Spec A
	511-0179	1	V-Belt - 1/2" Width	11	151-0579	1	Spring, Governor (50 Hertz
	511-0174	1	V-Belt (Begin Spec T)				Sets Only)
2			Nut, Hex (1/4-28)	12	850-0010	1	Screw, Cap - Hex Head
	115-0025	4	Dry Manifold Set				$(5/16-24 \times 1-1/4")$
	115-0025	3	Wet Manifold Set	13	850-0045	1	Washer, Lock - Spring (5/16")
3			Washer, Lock - Spring (1/4")	14	526-0115	1	Washer, Flat (5/16")
	850-0040	2	Dry Manifold Set	15			Bracket, Mounting
	850-0040	1	Wet Manifold Set		150-2249	1	Used Prior To Spec T
4	150-0638	2	Joint, Ball		150-2496	1	Begin Spec T
5			Stud	16	526-0029	1	Washer, Flat (3/8")
	520-0214	1	Dry Manifold Set				Wet Manifold Set - Spec T
	520-0515	.1	Wet Manifold Set	17	130-4271	1	Guard, Belt - Begin Spec C -
6	- 801005 0	3	Screw, Cap - Hex Head (3/8-24 x 1")				EK, Begin Spec V - EM



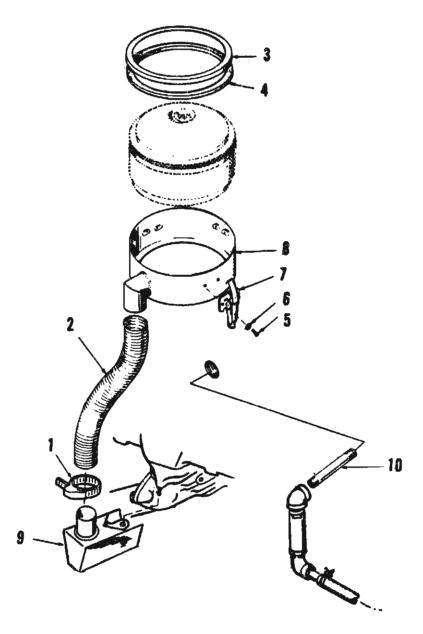


Package, Mounting - Governor 7 Controller, Governor 12	
151-0596 1 Spec C-R (Barber Coleman Part No. DYNK10163) 151-0605 1 Begin Spec R - 35EK-Spec Roll 151-0707 1 Bejin Spec S (Barber Coleman Part No. DYNK10163-1) 151-0710 1 Begin Spec T (Barber Coleman Part No. DYNK10163-2) 870-0131 4 Nut, Hex with ET Lock Washer Roll 150-0638 2 Spec C-R 813-0102 4 Screw, Machine - Round (#10-32) (Not Illustrated) 150-0638 2 Spec S,T 35EK-Spec A (10-32) Nut, Hex with ET Lock Washer Roll 150-025 4 Spec C-R (#10-32) 151-0411 1 4" Thread Length (Tappet, 1/4-28 Hard) 9 338-1765-01 1 Harness, Wiring Roll 150-1923 1 Spec S S	VDC)
151-0707 1 Bejin Spec S (Barber Coleman Part No. DYNK10163-1) 151-0710 1 Begin Spec T (Barber Coleman Part No. DYNK10163-2) 870-0131 4 Nut, Hex with ET Lock Washer Spec C-R (#10-32) 150-0638 2 Spec C-R (#10-32) 813-0102 4 Screw, Machine - Round (#10-32) (Not Illustrated) 150-0638 2 Spec C-R (#10-32) 813-0102 4 Screw, Machine - Round (#10-32) (Not Illustrated) 150-0638 2 Spec C-R (#10-32) 813-0102 4 Screw, Machine - Round (#10-32) (Not Illustrated) 150-0638 150-0638 150-0638 150-0638 150-0638 150-0638 150-0638 150-0638 150-0638 150-0638 160-0638	•
Part No. DYNK10163-1) 151-0710 1 Begin Spec T (Barber Coleman Part No. DYNK10163-2) 2 Joint, Ball 150-0939 2 Spec C-R 150-0638 2 Spec S,T 35EK-Spec A (10-32) 3 Nut, Hex with ET Lock Washer 870-0131 4 Spec C-R (#10-32) 3 Nut, Hex with ET Lock Washer 870-0131 4 Spec C-R (#10-32) 151-0411 115-0025 4 Spec S,T 35EK-Spec A (Tappet, 1/4-28 Hard) 520-0214 5 Spec S Spec S Spec C-R 11 155-1984 1 Spec S Actuator, Governor (12 VDC) 12 152-0329 1 Rod, Throttle - Begin Spec	
Part No. DYNK10163-2) 870-0131 4 Nut, Hex with ET Lock W (#10-32) (Not Illustrated) 150-0939 2 Spec C-R 813-0102 4 Screw, Machine - Round (#10-32 x .625") (Not (10-32)) 11lustrated) 3 Nut, Hex with ET Lock Washer 8 Pickup, Magnetic 870-0131 4 Spec C-R (#10-32) 151-0411 1 4" Thread Length 115-0025 4 Spec S,T 35EK-Spec A 151-0433 1 2-1/2" Thread Length (Tappet, 1/4-28 Hard) 9 338-1765-01 1 Harness, Wiring 150-1923 1 Spec C-R 11 155-1984 1 Shield, Heat (Used with D 520-0214 1 Spec S Manifold Only) 5 Actuator, Governor (12 VDC) 12 152-0329 1 Rod, Throttle - Begin Spec	Head
2	
150-0939 2 Spec C-R 813-0102 4 Screw, Machine - Round (#10-32 x .625") (Not (10-32)) 3 Nut, Hex with ET Lock Washer 8 Pickup, Magnetic 870-0131 4 Spec C-R (#10-32) 151-0411 1 4" Thread Length 115-0025 4 Spec S,T 35EK-Spec A 151-0433 1 2-1/2" Thread Length (Tappet, 1/4-28 Hard) 9 338-1765-01 1 Harness, Wiring 4 Stud 10 231-0157 1 Adapter, Generator 150-1923 1 Spec C-R 11 155-1984 1 Shield, Heat (Used with D 520-0214 1 Spec S Manifold Only) 5 Actuator, Governor (12 VDC) 12 152-0329 1 Rod, Throttle - Begin Spec	
150-0638 2 Spec S,T 35EK-Spec A (#10-32 x .625") (Not (10-32)) 3 Nut, Hex with ET Lock Washer 8 Pickup, Magnetic 870-0131 4 Spec C-R (#10-32) 151-0411 1 4" Thread Length 115-0025 4 Spec S,T 35EK-Spec A 151-0433 1 2-1/2" Thread Length (Tappet, 1/4-28 Hard) 9 338-1765-01 1 Harness, Wiring 4 Stud 10 231-0157 1 Adapter, Generator 150-1923 1 Spec C-R 11 155-1984 1 Shield, Heat (Used with D 520-0214 1 Spec S Manifold Only) 5 Actuator, Governor (12 VDC) 12 152-0329 1 Rod, Throttle - Begin Spec	
(10-32) Nut, Hex with ET Lock Washer 8 870-0131	Head
3	
870-0131	
115-0025	
(Tappet, 1/4-28 Hard) 9 338-1765-01 1 Harness, Wiring 4 Stud 10 231-0157 1 Adapter, Generator 150-1923 1 Spec C-R 11 155-1984 1 Shield, Heat (Used with D 520-0214 1 Spec S Manifold Only) 5 Actuator, Governor (12 VDC) 12 152-0329 1 Rod, Throttle - Begin Spe	
4 Stud 10 231-0157 1 Adapter, Generator 150-1923 1 Spec C-R 11 155-1984 1 Shield, Heat (Used with D 520-0214 1 Spec S Manifold Only) 5 Actuator, Governor (12 VDC) 12 152-0329 1 Rod, Throttle - Begin Spe	
150-1923	
520-0214 1 Spec S Manifold Only) 5 Actuator, Governor (12 VDC) 12 152-0329 1 Rod, Throttle - Begin Spe	
5 Actuator, Governor (12 VDC) 12 152-0329 1 Rod, Throttle - Begin Spe	ry
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161-7666 1 96414 Chan P C 2667-Chan A /1147 Manifol	
	d }
151-0625 1 Begin Spec T - 35EK-Spec A 152-0341 1 Wet Manifold	
800-0031 4 Screw, Cap - Hex Head 13 151-0629 1 Cable, Magnetic Pickup -	Begin
(5/16-18 x 1-1/2") (Mounts Spec T - 35EK-Spec A	
Gov. Mtg. Pkg. to Actuator) 14 150-2497 1 Bracket, Governor	
(Not Illustrated) 15 150-2145 1 Lever, Governor Actuator	
850-0045 4 Washer, Lock - Spring 16 800-0008 4 Screw, Lock Head (1/4-20	x 1.25"}
(5/16") (Not Illustrated) 17 870-0212 4 Nut, Lock Head (1/4-20)	
870-0048 4 Nut, Hex (5/16-18) (Not 18 800-0051 2 Screw, Cap - Hex Head	
Illustrated) $ (3/8-16 \times 1.25") $	
6 1 *Bracket, Mounting (Wet 19 850-0051 2 Washer, Lock (3/8")	
Manifold) 20 800-0052 4 Screw, Cap - Hex Head	,
151-0619 1 Spec C-S (3/8 - 16 x 1.5")	
150-2551 1 Begin Spec T	
150-2583 1 Begin Spec T (Dry Manifold) * Use on Wet Manifold Installation only; for Bra used on Dry Manifold, contact Barber-Coleman C	
Power part number DYNK-102. Redistribution or publication	of this docume



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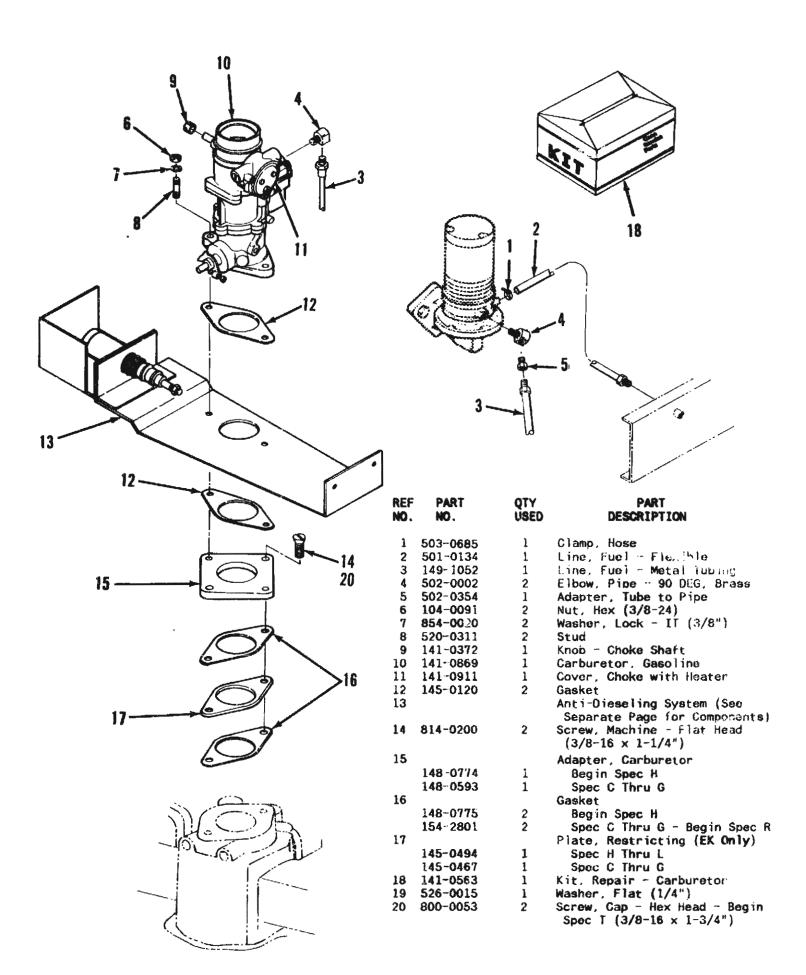
Air Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	133-0204	1	Heater, Air (Kit)	5	812-0077	6	Screw, Tapping - Round Head
1	503-0365	2	Clamp, Hose				(#8-32 x 3/8")
2	503-0245	1	Hose, Air - Flexible	6	850-0025	6	Washer, Lock - Spring (#8)
3	133-0202	1	Retainer	7	406-0105	3	Fastener
4	895-0098	-	Strip, Foam (Bulk)	8	133-0201	1	Duct, Heater
			2 FT Required	9	133-0203	1	Plenum, Heater
			·	10	505-0217	1	Nipple, Pipe (1/4 NPT x 4-1/2"LG)

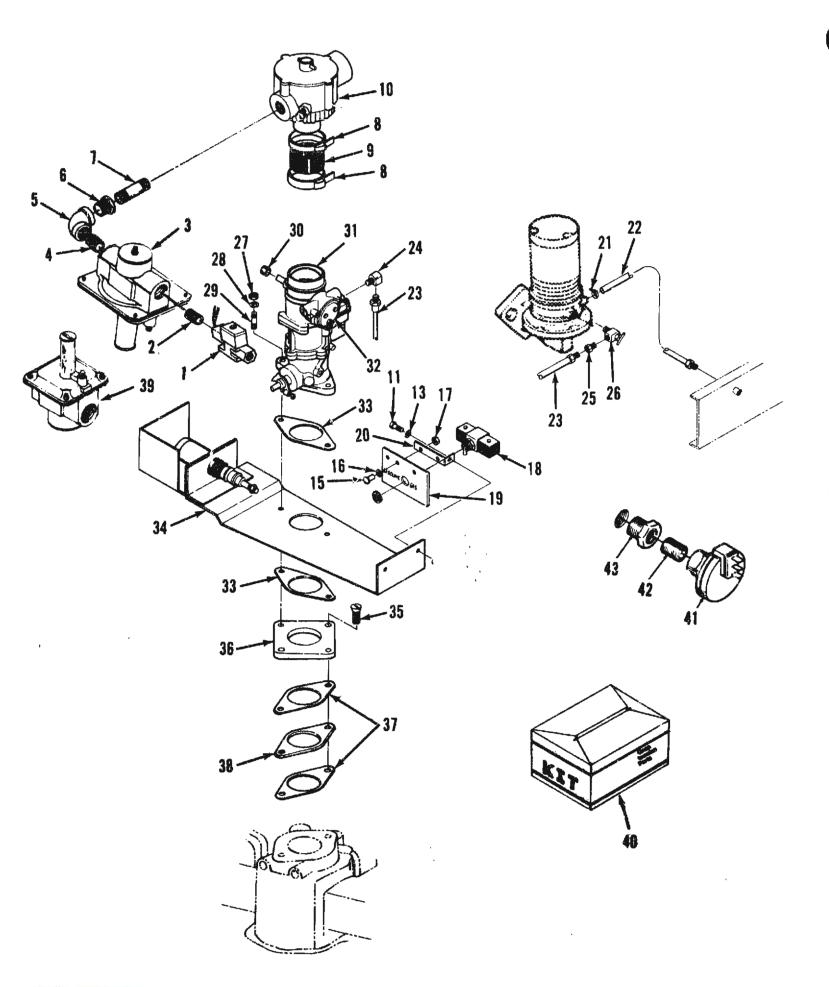


Gasoline Fuel System





Gasoline and Liquid Gas Vapor or Natural Gas Fuel System



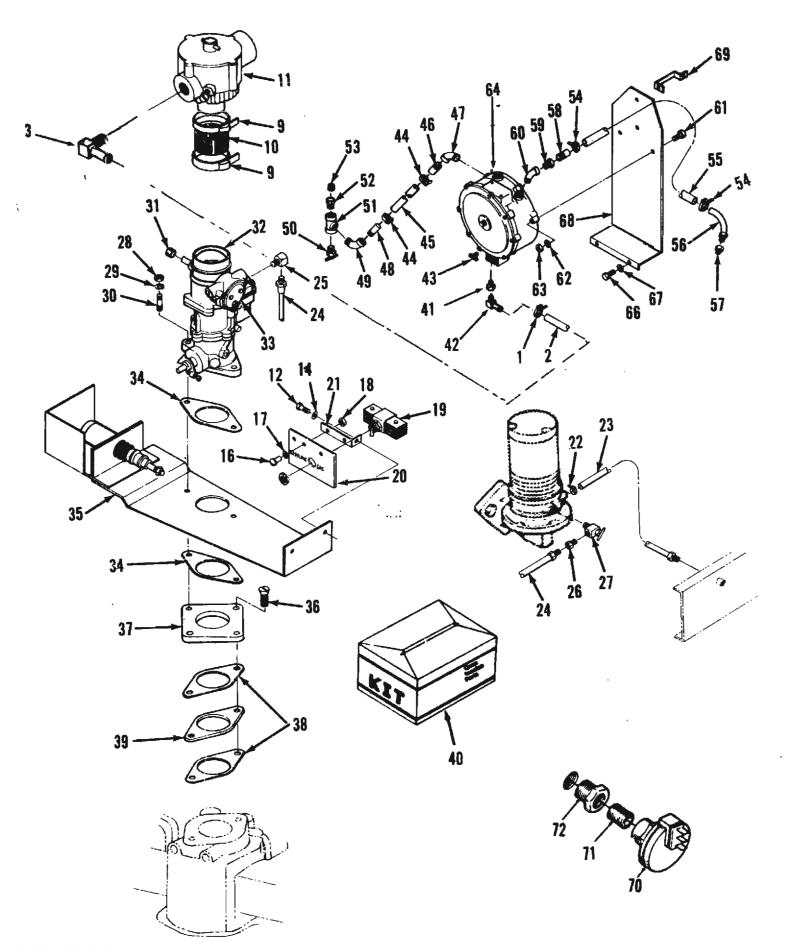


Gasoline and Liquid Gas Vapor or Natural Gas Fuel System

REF	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USE()	PART DESCRIPTION
1	307-0312	1	Valve, Solenoid - 12 VDC	25	502-0354	1	Adapter, Tube to Pipe
			(3/4 NPT)	26	504-0007	1	Valve - Fuel
2	505-01 02	1	Nipple, Pipe - Close	27	104-0091	2	Nut, Hex (3/8-24)
			(3/4 NPT × 1-3/8"LG)	28	854-0020	2	Washer, Lock - IT (3/8")
3	148-0637	1	Regulator, Pressure - Liquid	29	520-0311	2	Stud
			Gas Vapor (3/4 NPT)	30	141-0372	1	Knob - Choke Shaft
4	505-01 02	1	Nipple, Pipe - Close	31	141-0869	1	Carburetor, Gasoline
			$(3/4 \text{ NPT } \times 1-3/8\text{"LG})$	32	141-0911	1	Cover, Choke with Heater
5	505-0132	1	Elbow, Pipe - 90 DEG	33	145-0120	2	Gasket
			(3/4 NPT)	34			Anti-Dieseling System
6	505-0021	1	Bushing, Reducer - Hex				(See Separate Page for
		_	(3/4 NPT x 1/2 NPT)			_	Components)
7	505-0100	1	Nipple, Pipe - Close (1/2 NPT x 1-1/8"LG)	35	814-0200	2	Screw, Machine - Flat Head (3/8-16 x 1-1/4")
8	503-09 99	2	Clamp, T Bolt	36			Adapter, Carburetor
9	503-0542	1	Hose		148-0774	1	Begin Spec H
10	148-0691	1	Mixer - Gas Vapor		148-0593	1	Spec C Thru G
11	800-0025	1	Screw, Cap - Hex Head	37			Gasket
			$(5/16-18 \times 5/8")$		148-0775	2	Begin Spec H
13	850-0045	1	Washer, Lock - Spring (5/16")		154-2801	2	Spec C Thru G
15	813-00 98	2	Screw, Machine - Round Head	38			Plate, Restricting (EK Only)
			(#10-32 × 3/8")		145-0494	1	Spec H Thru L
16	850-0030	2	Washer, Lock - Spring (#10)		145-0467	1	Spec C Thru G
17	870- 0053	2	Nut, Hex (#10-32)	39	148-0597	1	Regulator, Pressure - Nat Gas
18	30 8-0005	1	Switch, Toggle				(3/4 NPT)
19	308-0150	1	Plate, Mounting	40	141-0563	1	Kit, Repair - Carburetor
20	306-0155	1	Bracket, Mounting	41	148-0367	1	Switch, Control - Vacuum
21	503 -0685	1	Clamp, Hose				(12 VDC)
22	501-0134	1	Line, Fuel - Flexible	42	505-0098	1	Nipple, Pipe - Close
23	149-1052	1	Line, Fuel - Metal Tubing	43	505-0007	1	Bushing, Reducer - Hex
24	502-0002	1	Elbow, Pipe - 90 DEG, Brass	44	503-1142	2	Clamp, Hose



Gasoline and Liquid Gas Fuel System



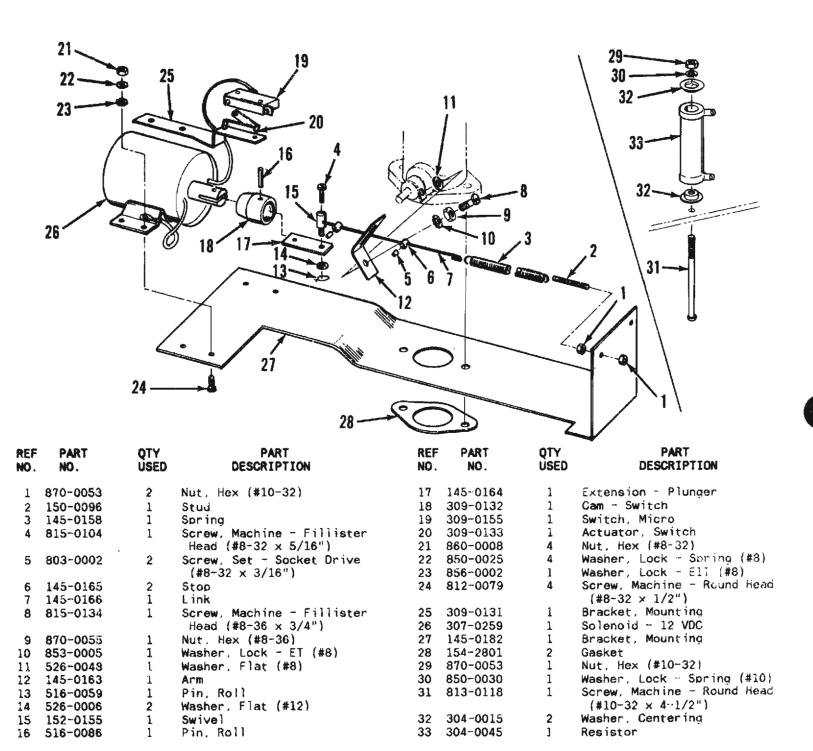


Gasoline and Liquid Gas Fuel System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Clamp, Hose	39			Plate, Restricting (EK Only)
	503-1137	2	Spec C-S (Min 5/16" - Max #16)		145-0494	1	Spec H Thru L
	503-0398	2	Begin Spec T (Min 13/16" -		145-0467	1	Spec C Thru G
			Max 1-3/4")	40	141-0563	1	Kit, Repair - Carburetor
2			Hose	41	505-0022	1	Bushing, Reducer - Hex
	503-1103	1	22.5" Long × 1" ID - 45EM -				$(1 \text{ NPT} \times 1/2 \text{ NPT})$
			Begin Spec S	42	502-1030	1	Connector, Hose (90°)(1/2×3/4)
	503-1691	1	$34" \times 3/4"$ ID	43	504-0005	1	Cock, Drain (1/8 NPT)
3	502-1030	1	Connector, Hose	44	503-0183	2	Clamp, Hose
4	307-0312	1	Valve, Solenoid - 12 VDC	45		2	Hose, Rubber - 12"
_			(3/4 NPT)	46	505-0135	2	Nipple, Pipe - Half
9	503-0999	2	Clamp, T Bolt		505 0000		(3/8 NPT x 1-1/2"LG)
10	503-0542	1	Hose	47	505-0039	2	Elbow, Pipe - Street, 90 DEG
11	148-0691	1	Mixer - Gas Vapor		505 0101	4	(3/8 NPT)
12	800-0025	1	Screw, Cap - Hex Head	48	505~0101	1	Nipple, Pipe (3/8 NPT x 6"LG)
1.4	050 0045	•	$(5/16-18 \times 5/8")$	49	505~0039	1	Elbow, Pipe - Street, 90 DEG
14	850-0045	1	Washer, Lock - Spring (5/16")	50	E04-0050	1	(3/8 NPT)
16	813-0098	2	Screw, Machine - Round Head	50 51	504-0028	1 1	Cock, Drain (3/8 NPT) Tee, Pipe (3/8 NPT)
17	950-0030	2	(#10-32 x 3/8")	52	505-0060 505-0017	1	Bushing, Reducer - Hex
17 18	850-0030 870- 0053	2	Washer, Lock - Spring (#10)	32	303-0017	,	(3/8 NPT × 1/4 NPT)
19	308-0005	2 1	Nut, Hex (#10-32) Switch, Toggle	53	505-0099	1	Nipple, Pipe - Clase
20	308-0150	î	Plate, Mounting	00	300 0033	•	(1/4 NPT × 7/8 "LG)
21	306-0155	ī	Bracket, Mounting	54	503-0183	2	Clamp, Hose
22	503-0685	i	Clamp, Hose	55	148-0826	ī	Vaporizer
23	501-0134	i	Line, Fuel - flexible	5 6	130-0678	î	Line, Water
24	149-1052	í	Line, Fuel - Metal Tubing	57	502-0103	ĩ	Adapter, Tube to Pipe
25	502-0002	i	Elbow, Pipe - 90 DEG, Brass	58		1	Nipple, Half
26	502-0354	1	Adapter, Tube to Pipe	59	505-0101	3	Nipple, Close (3/8")
27	5040007	ī	Valve, Shutoff - Fuel	60	505-0119	1	Elbow, Pipe - Street, 45 DFG
28	104-0091	2	Nut, Hex (3/8-24)				(3/8 NPT)
29	854-0020	2	Washer, Lock - 11 (3/8")	61	800-0009	2	Screw, Cap - Hex Head
30	520-0311	2	Stud				$(1/4-20 \times 1-1/2")$
31	141-0372	1	Knob - Choke Shaft	62	850-0040	2	Washer, Lock - Spring (1/4")
32	141-0869	1	Carburetor, Gasoline	63	862-0001	2	Nut, Hex (1/4-20)
33	141-0911	1	Cover, Choke with Heater	64		1	Converter - Liquid Gas
34	145-0120	2	Gasket	65	800-0069		Screw, Cap - Hex Head
35			Anti-Dieseling System (See				$(7/16-14 \times 3/4")$
			Separate Page for Components)	66	800-0071	1	Screw, Cap - Hex Head (7/16-14 x 1")
36	814-0200	2	Screw, Machine - Flat Head	67	850-0055	2	Washer, Lock - Spring (7/16")
			$(3/8-16 \times 1-1/4")$	68	148-0603	1	Bracket, Mounting
37			Adapter, Carburetor	69	148-0604	1	Brace, Mounting
	148-0774	. 1	Begin Spec H	70	148-0367	1	Switch, Control - Vacuum
	148-0593	1	Spec C Thru G			_	(12VDC)
38			Gasket	71	505-0098	1	Nipple, Pipe - Close
	148-0775	2	Begin Spec H	72	505-0007	1	Bushing, Reducer - Hex
	154-2801	2	Spec C Thru G				

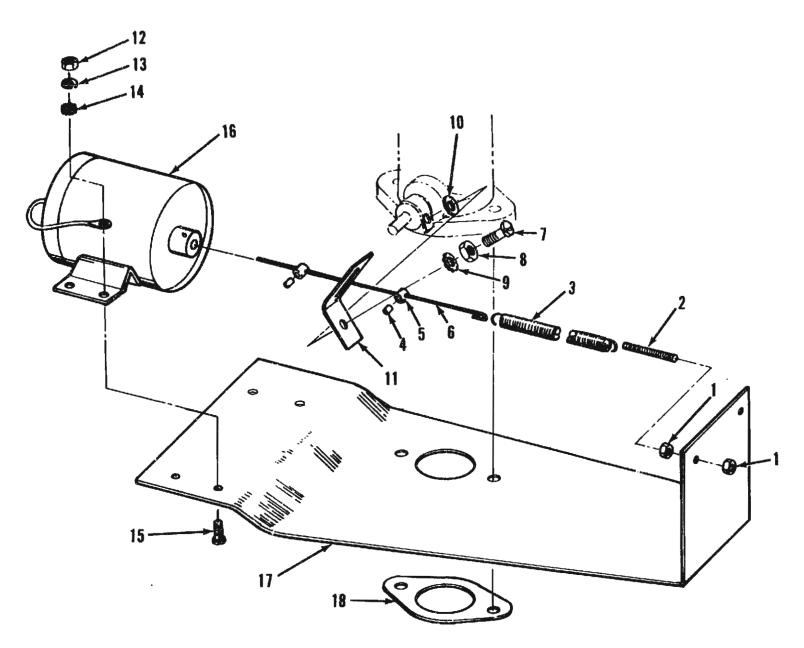


Anti-Dieseling System - Spec C Only





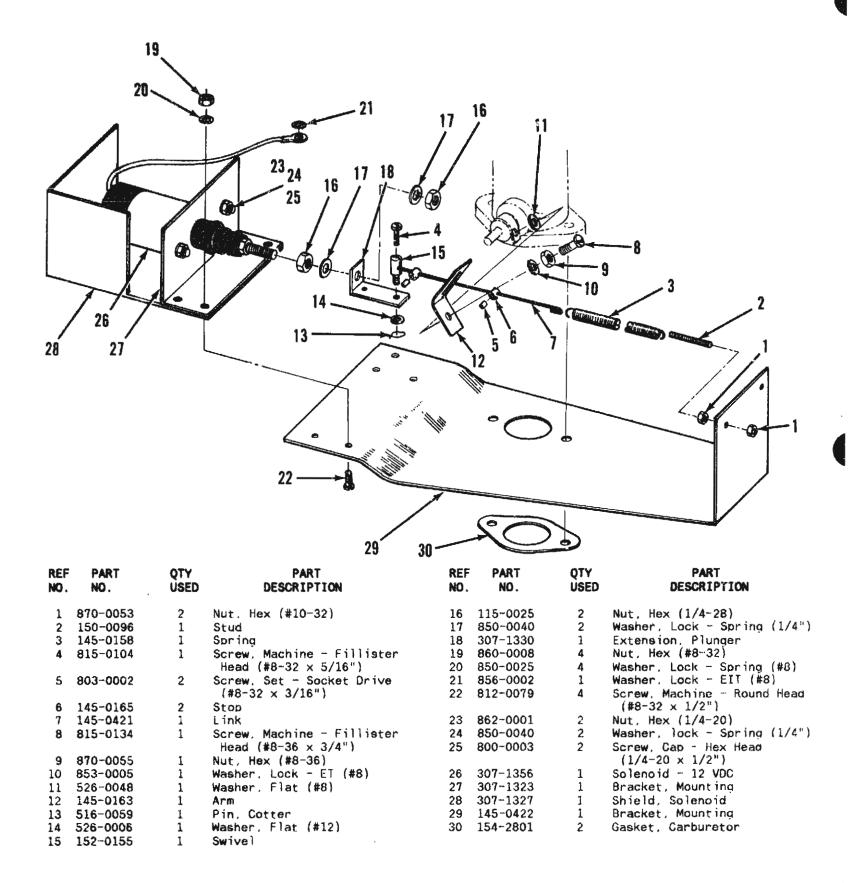
Anti-Dieseling System - Spec D and E



REF NO.	PART NO.	OTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
i	870 0053	2	Nut. Hex (#10-32)	10	5260048	1	Washer, Flat (#8)
2	150~0096	ì	Stud	11	145~0163	1	Arm
3	145-0158	1	Spring	12	860-0008	4	Nut. Hex (#8-32)
4	803-0002	2	Screw, Set - Socket Drive	13	850-0025	4	Washer, Lock - Spring (#8)
			(#8-32 x 3/16")	14	856-0002	1	Washer, Lock - EIT (#8)
5	145-0165	2	Ston	15	812-0079	4	Screw. Machine - Round Head
6	145-0166	1	Link				(#8-32 × 1/2")
7	815-0134	ì	Screw. Machine - Fillister	16	307-1093	1	Solenoid - 12 VDC
			riead (#8-36 x 3/4")	17	145-0422	1	Bracket, Mounting
8	870-0055	1	Nut, Hex (#8-36)	18	154-2801	2	Gasket
9	853-0005	ì	Washer, Lock - ET (#8)				

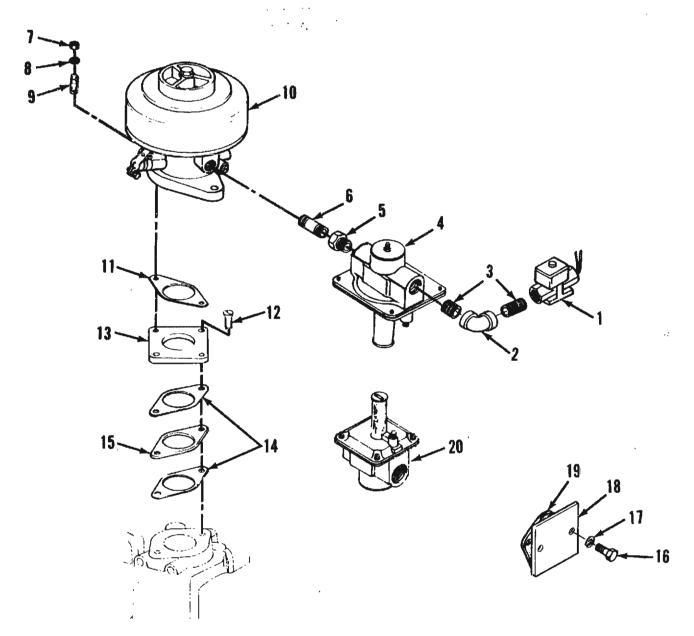


Anti-Dieseling System - Begin Spec F





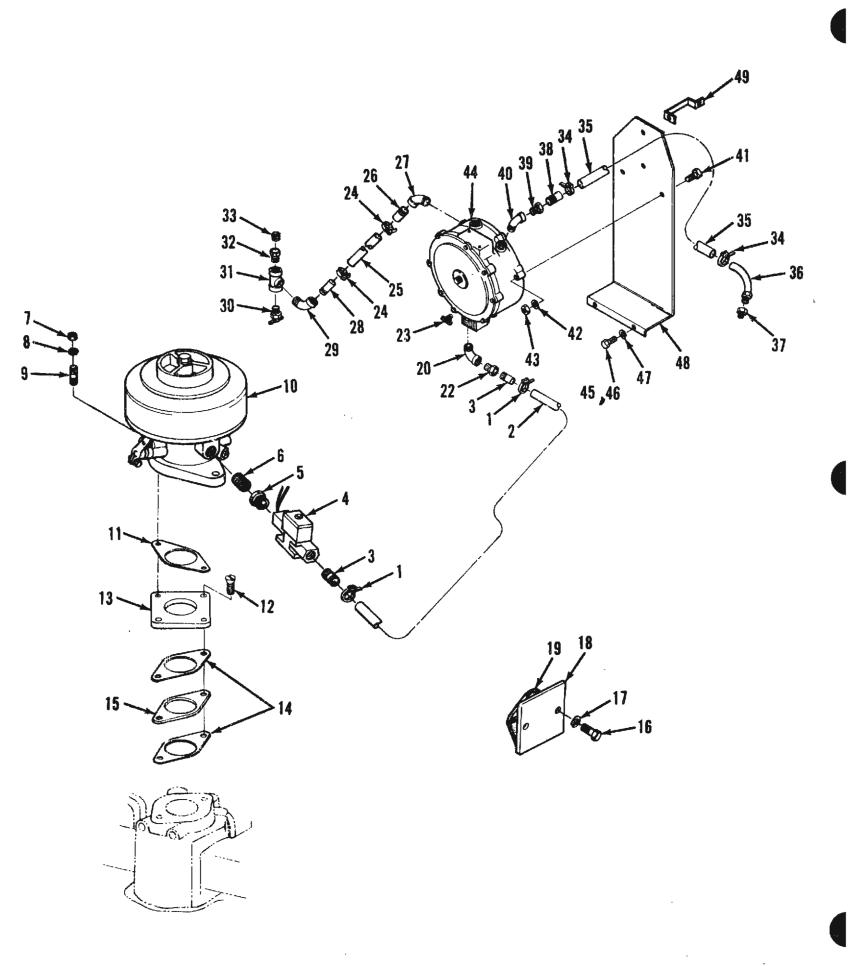
Liquid Gas Vapor or Natural Gas Fuel System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-0312	1	Valve, Solenoid - 12 VDC	14			Gasket
			(3/4 NPT)		148-0775	2	Begin Spec h
2	505-0132	1	Elbow, Pipe - 90 DEG		154-2801	2	Spec C Thru G
			(3/4 NPT)	15			Plate, Restricting (EK Only)
3	505-0102	2	Nipple, Pipe - Close		145~0494	i	Spec H Thru L
			$(3/4 \text{ NPT} \times 1-3/8"\text{LG})$		145-0467	1	Spec C Thru G
4	148-0637	1	Regulator, Pressure - Liquid Gas Vapor (3/4 NPT)	16	800-0025	2	Screw, Cap - Hex Head (5/16-18 x 5/8")
5	505-0021	1	Bushing, Reducer - Hex	17	850~0045	2	Washer, Lock - Spring (5/16")
			$(3/4 \text{ NPT} \times 1/2 \text{ NPT})$	18	149-0638	ī	Cover - Fuel Pump
6	505-0100	1	Nipple, Pipe - Close				Mounting Hole
			$(1/2 \text{ NPT} \times 1-1/8"\text{LG})$	19	149-0736	1	Gasket
7	104-0091	2	Nut, Hex (3/8-24)	20	148-0597	1	Regulator, Pressure - Natural
8	854-0020	2	Washer, Lock - Spring (3/8")				Gas (3/4 NPT)
9	520-0311	2	Stud	21	150-0638	1	Joint, Bali
10	148-0643	1	Carburetor, Gas Vapor	22	115-0025	1	Nut, Hex (1/4"-28)
11	145-0120	2	Gasket	23	850-0040	1	Washer, Lock (1/4")
12	814~0200	2	Screw, Machine - Flat Head (3/8-16 x 1-1/4")				
13			Adapter, Carburetor				
	148-0774	1	Begin Spec H				
	148-0593	1	Spec C Thru G				



Liquid Gas Fuel System



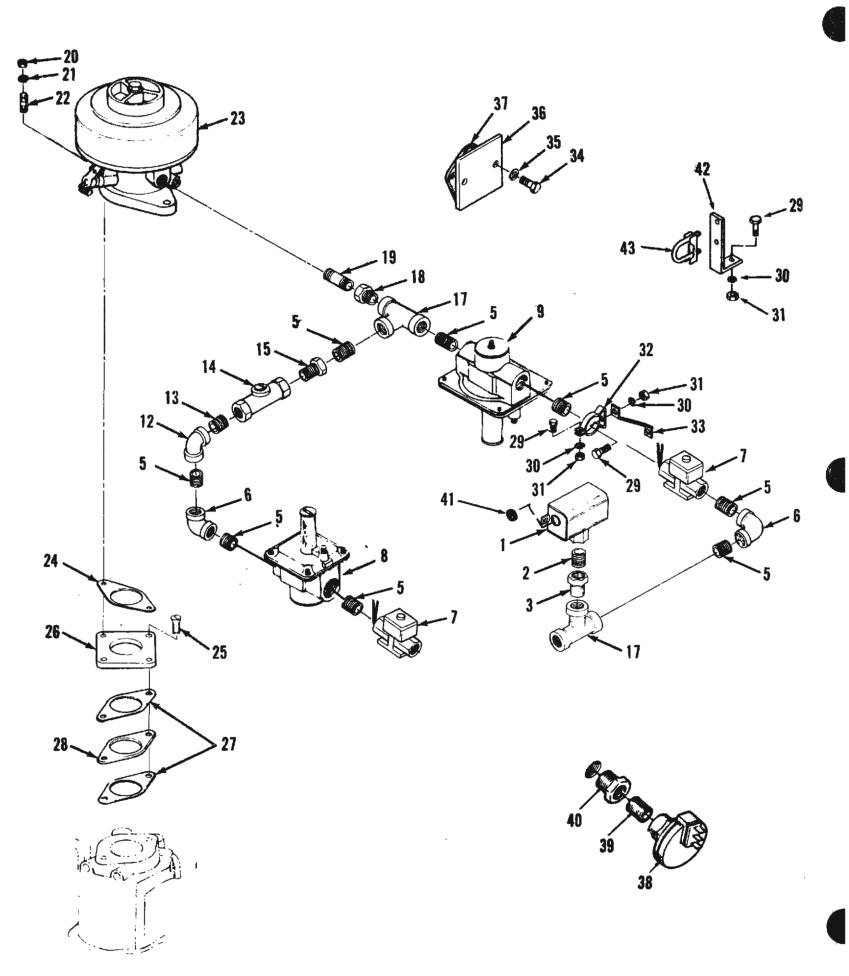


Liquid Gas Fuel System

REF NO.	PART NO.	OTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	503-0398	2	Clamb, hose	23		1	Cock, Drain (1/8 NPT)
2	503-1103	ī	Hose (1"ID x 22.5" Long)	24	50 3~0183	2	Clamp, Hose
3	862-0015	1	Nut, Hex (5/16-18)	25	503~0833	1	tiose (5/8"ID x 22")
4	307-0312	1	Valve. Solenoid - 12 VDC (3/4 NPI)	26	5050135	1	Nipple, Pipe - half (3/8 NPT x 1-1/2"LG)
5	505 -0021	1	Bushing, Reducer - Hex (3/4 NPT x 1/2 NPT)	27	505-0039	3	Elbow, Pipe - 90 Degrees (3/8 NPT)
6	505-0100	ì	Nipple, Pipe - Close	28	505-0125	i	Nipple (3/8 NPT x 6")
			$(1/2 \text{ NPT} \times 1-1/8"LG)$	29	505-0004	2	Nipple, Close (1" NPT)
7	104 0091	2	Nut, Hex (3/8-24)	30	504-0028	1	Cock, Drain (3/8 NPT)
8	854-0020	2	Washer, Lock - Spring (3/8")	31	505-0060	1	Tee, Pipe (3/8 NPT)
9	520-0311	2	Stud	32	505-0017	1	Bushing, Reducer - Hex
10	148-0643	1	Carburetor, Gas Vapor				(3/B NPT x 1/4 NPT)
11	145-0120	2	Gasket	33	505 -0099	2	Nipple, Pipe - Clase
12	814-0200	2	Screw, Machine - Flat Head				(1/4 NPT x 7/8 "LG)
			$\{3/8-16 \times 1-1/4^n\}$	34	505-0101	1	Nipple, Close (3/8 NPT)
`3			Adapter, Carburetor	35	503-0833	1	Hose (5/8"ID x 24")
	148-0774	1	Begin Spec H	36	130-0678	ì	Line, Water
	148-0593	ì	Spec C Thru G	37	502-0103	1	Adapter, Tube to Pipe
14			Gasket	38	505-0028	1	Coupling, Pipe (3/8 NPT)
	148-0775	2	Begin Spec H	39	502-0943	3	Connector, Hose (5/8"ID Hose)
	154-2801	2	Spec C Thru G	40	148-0603	1	Bracket, Mounting
lá	145-0494	1	Plate, Restricting (EK Only) Spec H Thru L	41	800-0009	2	Screw, Cap - Hex Heac (1/4-20 x 1-1/2")
	145-0467	ì	Spec C Thru G	42	850-0040	4	Washer, Lock - Spring (1/4)
16	800-0025	3	Screw, Cap - Hex riead	43	862-0001	4	Nut, Hex (1/4-20)
			(5/16-18 x 5/8")	44	148-0625	1	Converter, Liquid Gas
13	850-0045	3	Washer, Lock - Spring (5/16")	45	800-0069	1	Screw, Cap - Hex liead
18	149-0638	1	Cover - Fuei Pump				$(7/16-14 \times 3/4")$
19	149-0736	1	Mounting Hole Gasket, Fuel Pump	46	800-0071	1	Screw, Cap - Hex Head (7/16-14 x 1")
20	505-0356	2	Flbow. Pipe - 90 DEG (3/4 x 1")	47	850-0055	2	Washer, Lock - Spring (7/16")
21	148-0604	ì	Brace, Mounting	48	505-0287	Ī	Elbow, Street - 45' (3/4")
22	502-0971	3	Connector, Hose (1"ID Hose)	70	220 0201	-	,



Automatic Changeover Liquid Gas and Natural Gas Fuel System

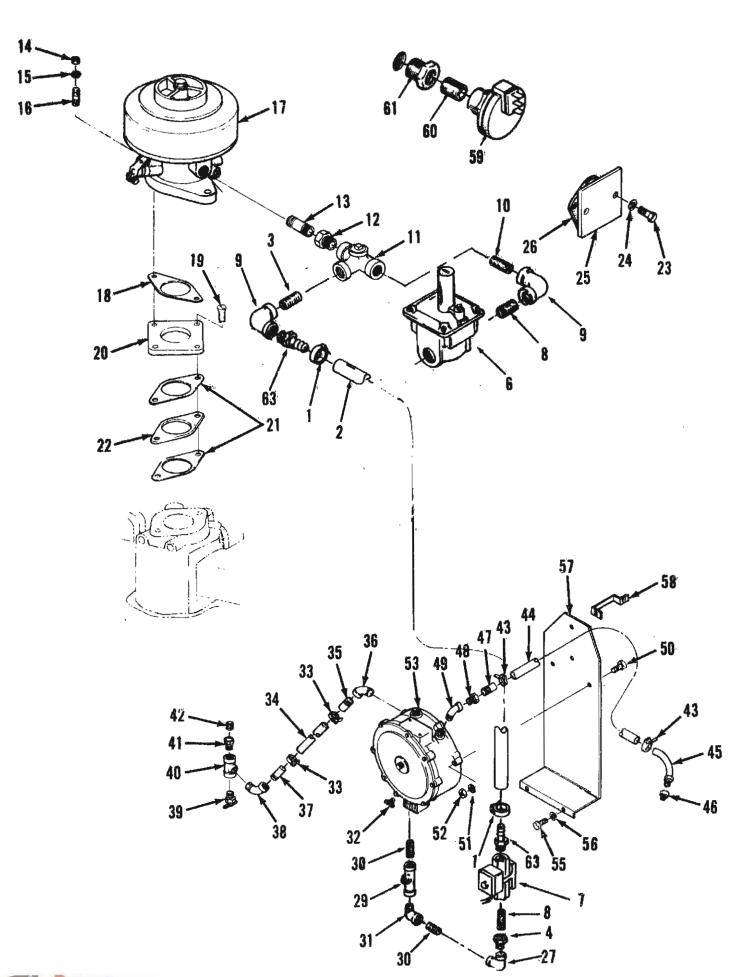




Automatic Changeover Liquid Gas and Natural Gas Fuel System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-0627	1	Switch, Pressure - 12 VDC	23	148-0643	1	Carburetor, Gas Vapor
2	505 -0099	1	Nipple, Pipe - Close	24	145-0120	2	Gasket
			$(1/4 \text{ NPT} \times 7/8 \text{"LG})$	25	814-0200	2	Screw, Machine - Flat Head
3	505-0020	1	Bushing, Reducer - Hex				$(3/8-16 \times 1-1/4")$
			$(3/4 \text{ NPT} \times 1/4 \text{ NPT})$	26			Adapter, Carburetor
4	505- 0007	1	Bushing, Reducer - Hex		148-0774	1	Begin Spec H
5			Nipple, Pipe - Close		148-0593	1	Spec C Thru G
			$(3/4 \text{ NPT} \times 1-3/8"\text{LG})$	27			Gasket
	505-0102	9	Use with Electronic Governor		148-0775	2	Begin Spec H
	50 5-0102	8	Use with Mechanical Governor		154-2801	2	Spec C Thru G
6			Elbow, Pipe - 90 DEG	28			Plate, Restricting (EK Only)
			(3/4 NPT)		145-0494	1	Spec H Thru L
	505-0132	3	Use with Electronic Governor		145-0467	1	Spec C Thru G
_	505-0132	2	Use with Mechanical Governor	29	800-0007	2	Screw, Cap - Hex Head
7	307-0312	2	Valve, Solenoid - 12 VDC			_	$(1/4-20 \times 1")$
_			(3/4 NPT)	30	850-0040	2	Washer, Lock - Spring (1/4")
8	148-0637	1	Regulator, Pressure - Liquid	31	862-0001	2	Nut, Hex (1/4-20)
9	148-0597	1	Gas Vapor (3/4 NPT) Regulator, Pressure - Natural	32	331-0101	1	Hanger, Pipe (Use With Mechanical Governor)
			Gas (3/4 NPT)	33	148-0673	1	Bracket, Support (Use With
10	502-0971	2	Connector, Hose - Begin Spec R				Mechanical Governor)
11	50 8-0008	1	Grommet, Rubber	34	800-0025	2	Screw, Cap - Hex Head
12	505 -0356	1	Elbow, Pipe - Reducing,				$(5/16-18 \times 5/8")$
			90 DEG (1 NPT x 3/4 NPT)	35	850-0045	2	Washer, Lock - Spring (5/16")
13	505-0004	1	Nipple, Pipe - Close	36	149-0638	1	Cover - Fuel Pump
			$(1 \text{ NPT} \times 1-1/2\text{"LG})$				Mounting Hole
14	148-0626	1	Valve, Control	37	149-0736	1	Gasket
			(1 NPT)	38	148-0367	1	Switch, Control - Vacuum
15	505-01 29	1	Bushing, Reducer - Hex				(12 VDC)
			$(1 \text{ NPT} \times 3/4 \text{ NPT})$	39	505-0098	1	Nipple, Pipe - Close
17	505-01 66	2	Tee, Pipe (3/4 NPT)	40	505-0029	1	Coupling, Pipe (3/4 NPT)
18	505-0021	1	Bushing, Reducer - Hex				Begin Spec R
			$(3/4 \text{ NPT} \times 1/2 \text{ NPT})$	41	500-0008	1	Grommet, Rubber
19	505-0100	1	Nipple, Pipe - Close (1/2 NPT x 1-1/8"LG)	42	148-0994	1	Brace (Use With Electronic Governor)
20	104-0091	2	Nut, Hex (3/8-24)	43	155-1015	1	Clamp, Muffler (Use With
21	854-0020	2	Washer, Lock - Spring (3/8")				Electronic Governor)
22	520-0311	2	Stud				





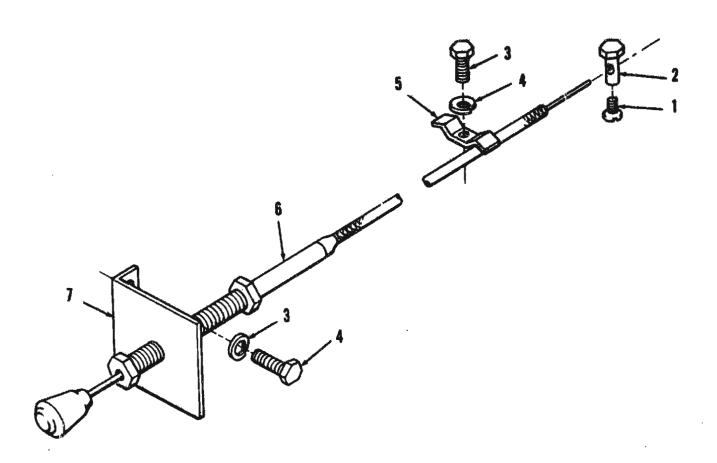


Liquid Gas and Natural Gas Fuel System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1 2	503- 0189	2	Clamp, Hose Hose	29	148-0626	1	Valve, Control (1 NPT)
	503-1163	1	24" Long	30	505-0086	2	Nipple, Pipe (1 NPT x 2.5"1G)
	503-1201	1	12" Lor	31	505-0003	1	Elbow, Pipe - Street, 90 DEG
	503-0895	1	5" Long				(1 NPT)
3	505-0087	ī	Nipple, Pipe - Half	32	504-0005	1	Cock, Drain (1/8 NPT)
			(1" NPT × 3"LG)		503-0183	1	Clamp, Hose
4	505-0129	1	Bushing, Reducer - Hex	34	503-0833	1	Hose, Rubber - 22" Long
			$(1 \text{ NP} \times 3/4 \text{ NPT})$	35	505 -0135	1	Nipple, Pipe - Half
6	148-0597	1	Regulator, Pressure - Natural				$(3/8 \text{ NPT} \times 1-1/2"LG)$
			Gas (3/4 NPT)	36	505-0119	1	Elbow, Pipe - Street, 45 DEG
7	307-0312	1	Valve, Solenoid - 12 VDC				(3/8 NPT)
			(3/4 NPT)	37	505-0125	1	Nipple, Pipe (3/8 NPT x 6"LG)
8	505-0102	2	Nipple, Pipe - Close (3/4 NPT x 1-3/8"LG)	38	505-0119	1	Elbow, Pipe - Street, 45 DEG (3/8 NPT)
9	505-0356	2	Elbow, Pipe - 90 DEG(1"x3/4")	39	504-0028	1	Cock, Drain (3/8 NPT)
10	505-0004	1	Nipple, Pipe - Close (1"x1.5")	40	505-0060	1	Tee, Pipe (3/8 NPT)
			$(1 \text{ NPT} \times 3/4 \text{ NPT})$	41	505-0017	1	Bushing, Reducer - Hex
11	504-0083	1	Valve, Control - Three Way				$(3/8 \text{ NPT} \times 1/4 \text{ NPT})$
			(1 NPT)	42	505-0099	1	Nipple, Pipe - Close
12	505-0022	1	Bushing, Reducer - Hex				$(1/4 \text{ NPT} \times 7/8 \text{ "LG})$
			$(1 \text{ NPT} \times 1/2 \text{ NPT})$	43	503-0032	2	Clamp, Hose
13	505-0100	1	Nipple, Pipe - Close	44	503-0386	1	Hose, Rubber
		_	$(1/2 \text{ NPT} \times 1-1/8"LG)$	45		1	Line, Water
14	104-0091	2	Nut, Hex (3/8-24)	46	502-0103	1	Adapter, Tube to Pipe
15	854-0020	2	Washer, Lock - Spring (3/8")	47	505-0010	1	Nipple, Pipe - Half
16	520-0311	1	Stud	40	FAC 0017		(1/4 NPT x 1"l.G)
17	148-0643	1	Carburetor, Gas Vapor	48	505-0017	1	Bushing, Reducer - Hex
18 19	145-0120 814-0200	2 2	Gasket Screw, Machine - Flat Head	49	505-0119	1	(3/8 NPT × 1/4 NPT) Elbow, Pipe - Street, 45 DEG
20			(3/8-16 x 1-1/4") Adapter, Carburetor	50	800-0009	2	(3/8 NPT) Screw, Cap ~ Hex Head
20	148-0774	1	Begin Spec H	00	000 0003	_	(1/4-20 x 1-1/2")
	148-0593	î	Spec C Thru G	51	850-0040	2	Washer, Lock - Spring (1/4")
21	240 0000	-	Gasket	52	862-0001	2	Nut, Hex (1/4-20)
• •	148-0775	2	Begin Spec H	53	148-0625	1	Converter, Liquid Gas
	154-2801	2	Spec C Thru G	54	800-0069		Screw, Cap - Hex Head
22		_	Plate, Restricting (EK Only)				$(7/16-14 \times 3/4")$
	145-0494	1	Spec H Thru L	55	800-0071	1	Screw, Cap - Hex Head
	145-0467	1	Spec C Thru G				$(7/16-14 \times 1")$
23	800-0025	3	Screw, Cap - Hex Head	56	850-0055	2	Washer, Lock - Spring (7/16")
			$(5/16-18 \times 5/8")$	57	148-0603	1	Bracket, Mounting
24	850-0045	3	Washer, Lock - Spring (5/16")	58	148-0604	1	Brace, Mounting
25	149-0638	1	Cover - Fuel Pump	59	148-0367	1	Switch, Control - Vacuum
			Mounting Hole				(12 VDC)
	149-0736	1	Gasket		505-0098	1	Nipple, Pipe - Close
27	505-0041	1	Elbow, Pipe - 90 DEG (1 NPT)		505-0007	1	Bushing, Reducer - Hex
		_	$(3/4 \text{ NPT} \times 1/2 \text{ NPT})$		862-0015	1	Nut, Hex (5/16-18)
28	505-0004	1	Nipple, Pipe - Close (1 NPT x 1-1/2"LG)	63	502-0943	2	Connector, Hose - Barbed



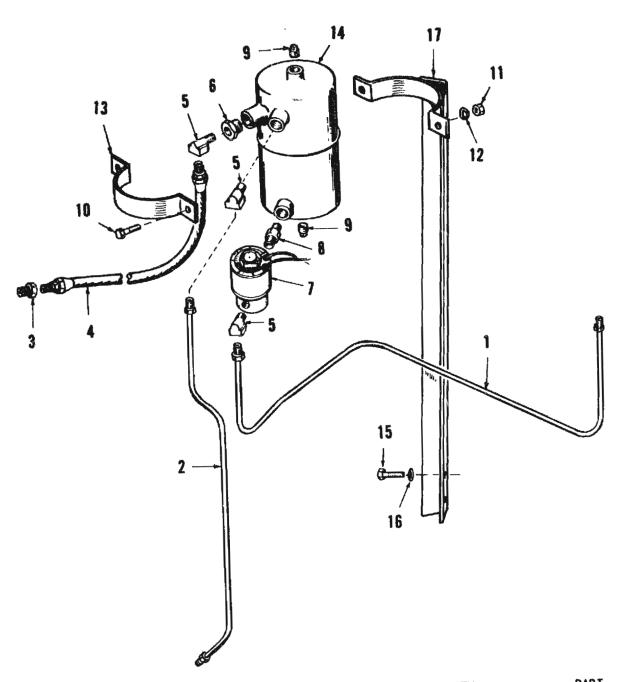
Vernier Throttle



REF NO.	PART NO.	QTY	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	812-0075	1	Screw, Machine - Round Head	4	850-0040	3	Washer, Lock - Spring (1/4")
			(#8-32 × 1/2")	5	152-0036	1	Clamp, Cable
2	152-0158	1	Swivel	6	152-0120	1	Throttle, Vernier
3	800-0005	3	Screw, Cap - Hex Head (1/4-20 x 3/4")	7	151-0230	1	Bracket, Mounting



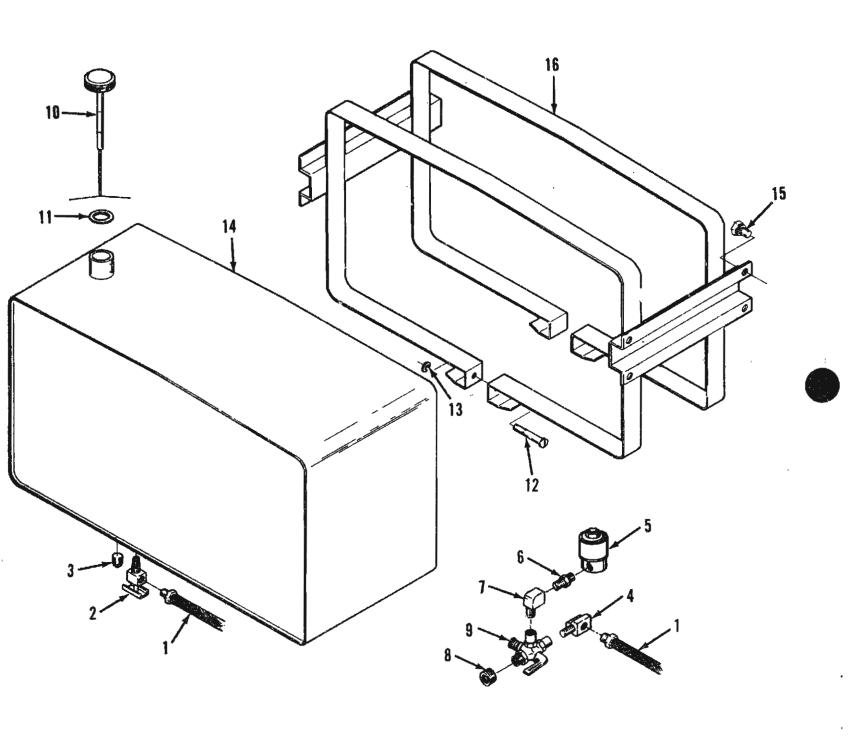
Day Tank



REF	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1 2 3	159-0859 159-0860 502-0003	1 1 1	Line, Fuel - Metal Tubing Line, Fuel - Metal Tubing Adapter, Line to Pipe		800-0035 862-0001 850-0040	2 2 2	Screw, Cap - Hex Head (1/4-20 x 3/4") Nut, Hex (1/4-20) Washer, Lock - Spring (1/4)
5 6	501-0009 501-0010 502-0002 159-0705	1 1 2 1	Line, Fuel - Flexible 59"LG 42"LG Elbow, Pipe - 90 DEG, Brass Bushing, Reducer - Hex, Restricting (3/8 NPT x	13	159-0680 159-0875 159-0294	1 1 1	Clamp For One Quart Tank Mounting For Two Quart Tank Mounting Tank, Fuel One Quart Two Quart
7 8 9	307-0555 502-0082 505-0057	1 1 2	1/8 NPT) Valve, Solenoid - 12 VDC Nipple, Pipe - Hex (1/8 NPT) Plug, Pipe - Square Head (1/8 NPT)	15 16 17	159-0746 800-0071 850-0055 159-0861 159-0876	2 2 1 1	Screw, Cap - Hex Head (7/16-14 x 1") Washer, Lock - Spring (7/16") Bracket, Mounting For One Quart Tank Mounting For Two Quart Tank Mounting



Fuel Tank

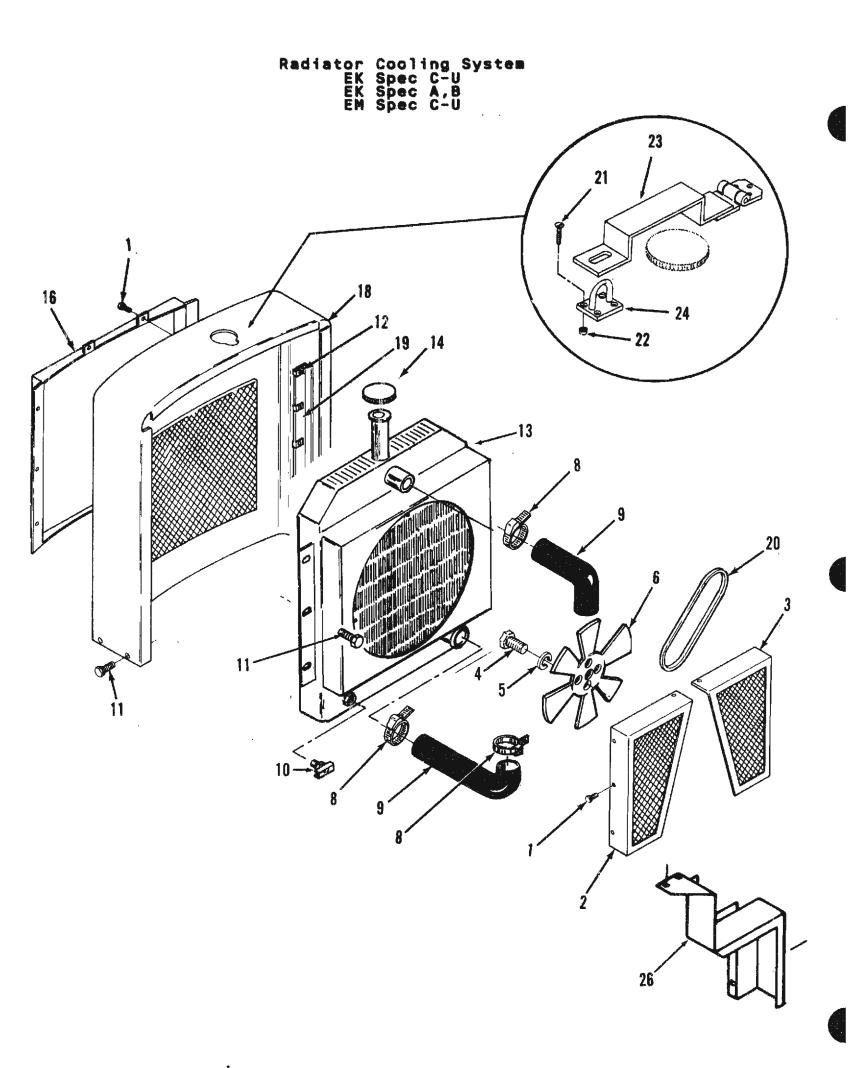




fuel Tank

RÉF NO.	PART NO.	QTY USED	PART Description	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0009	1	Line, Fuel - Flexible	9	504-0004	1	Valve, Control - Three Way (1/8 NPT)
2	501-0010	1	42"LG Valve, Control (1/8 NPT)	10	159-0512	1	Cap and Indicator, Fuel (Includes Gasket)
	504-0007	1	Without Screen	11	159-0751	1	Gasket
	504-0013	1	With Screen	12	812-0158	2	Screw, Machine - Round Head
3	505-0057	1	Plug, Pipe - Square Head				$(1/4-20 \times 2")$
			(1/8 NPT)	13	850-0040	2	Washer, lock - Spring (1/4")
4	502-0002	1	Elbow, Pipe - Street, 90 DEG (1/4" Tube x 1/8 NPT)	14			Tank, Fuel - 20 GAL (Excludes Cap)
5	307-0867	1	Valve, Solenoid - 12 VDC		159-0490	1	Two Fuel Ports
6	502-0082	1	Nipple, Pipe - Hex (1/8 NPT)		159-1025	1	Three Fuel Ports
7	502-0020	1	Elbow, Pipe - Street, 90 DEG (1/8 NPT)	15	821-0010	8	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")
8	505-0274	1	Plug, Pipe - Socket Drive (1/8 NPT)	16	1590489	1	Strap, Mounting





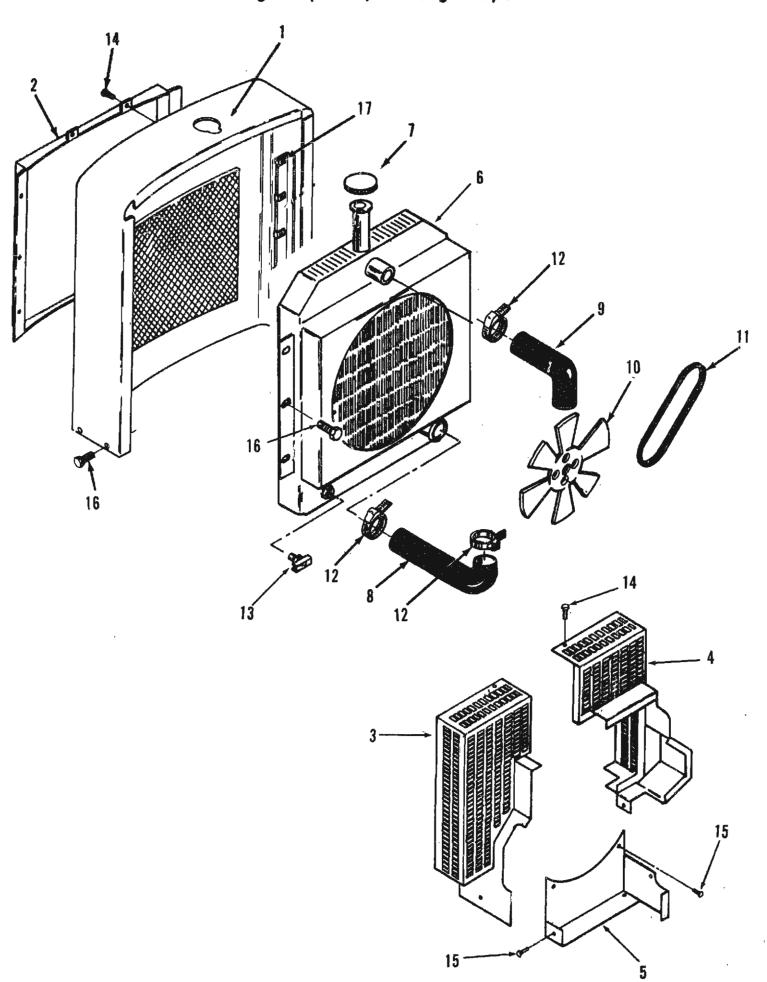


Radiator Cooling System EK Spec C-U EK Spec A,B EM Spec C-U

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0181	8	Screw, Cap - Hex Head,	12	870-0114	12	Nut, Retainer (5/16-18)
			Thread Cutting, with	13	130~0604	1	Radiator (Includes Cap)
			ET Lock Washer	14	130-0449	1	Cap, Radiator
			(#10~32 × 1/2")	16	405-1054	1	Flange, Air Duct
2	130-0352	1	Guard, Fan - Right Side	18	405-1811	1	Panel, Housing - Front
3	130-0351	1	Guard, Fan - Left Side	19	130-2217	2	Bracket, Mounting
4	801-0024	4	Screw, Cap - Hex Head	20	511-0075	1	Belt, Drive
			$(5/16-24 \times 1/2")$	21	814-0079	7	Screw, Machine - Flat Head
5	850~0045	4	Washer, Lock - Spring (5/16")				(#8-32 × 1/2")
6			Fan	22	870-0221	7	Nut, Hex With External Tooth
	130-1236	1	Begin Spec K				Lock Washer (#8-32)
	130-0355	1	Spec C Thru J	23	406-0469	1	Strap, Hasp
8	503-0365	4	Clamp, Hose	24	406-0471	1	Latch, Hasp
9			Hose - Preformed	25	821-0010	4	Screw, Lock Head
	503-0490	1	Lower				$(1/4-20 \times 1/2")$
	503-0491	1	Upper	26	191~2058	1	Guard, Belt
10	504-0028	1	Cock, Drain (3/8 NPT)				
1 1.	821-0014	14	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")				



Radiator Cooling System
"EK Begin Spec C, EM Begin Spec V"



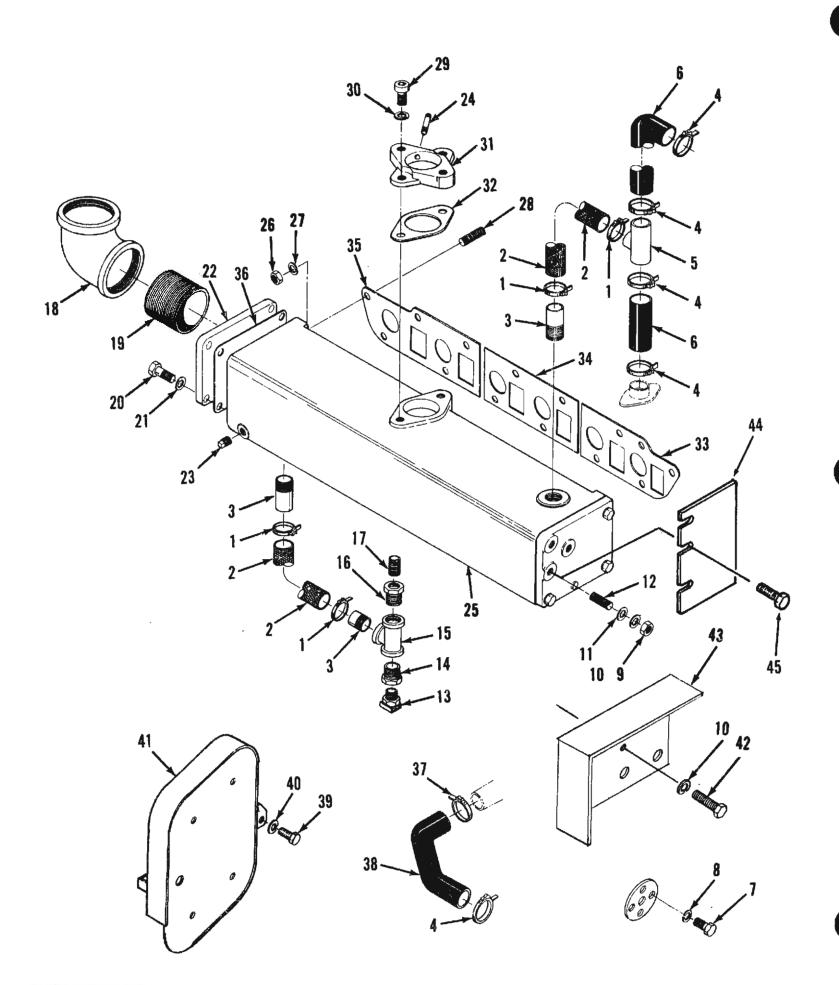


Radiator Cooling System "EK Begin Spec C, EM Begin Spec V"

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-1811	1	Panel, Front	11	511-0075	1	Belt, Drive
2	405-1054	1	Flange, Air Duct	12	503-0365	4	Clamp, Hose
3	130-4246	1	Guard, Belt - Right Side	13	504-0028	1	Cock, Drain
4	130-4245	1	Guard, Belt - Left Side	14	815-0181	18	Screw, Cap - Hex Head, Thread
5	130-4252	1	Guard, Belt - Lower				Cutting, with ET Lockwasher
6	130-4267	1	Radiator (Includes Cap)				$(#10-32 \times 1/2")$
7	130-0449	1	Cap, Radiator	15	821-0010	4	Screw, Lockhead (1/4-20 x 1/2")
8	503~0490	1	Hose, Radiator - Lower	16	821-0014	14	Screw, Lockhead (5/16-18 x 1/2")
9	503~0491	1	Hose, Radiator - Upper	17	870-0114	6	Nut, Retainer (5/16-18)
10	130-1236	1	Fan			_	, ,



Remote Radiator Cooling System



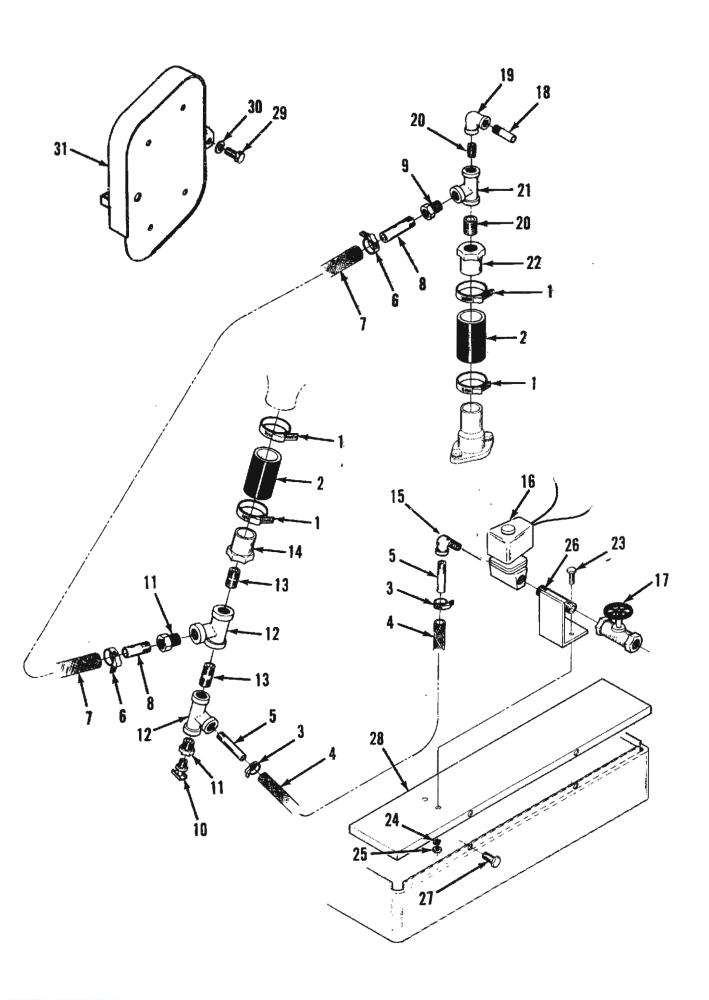


Remote Radiator Cooling System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0189	1	Clamp, Hose	24	505-0271	1	Nipple, Pipe (1/4 NPT x
2	503-1194	1	Hose, 1 Foot Long	05	154 0045	•	3-1/2"LG)
3	503-1194	3	Connector, Hose (1/2 NPT x 2" Long)	25	154-2345	1	Manifold, Liquid Cooled (Includes Parts Marked *)
4	503-0311	2	Clamp, Hose	26	862-0003	13	*Nut, Hex (3/8-24)
5	503-0517	1	Adapter, Hose	27	850- 0 050	13	*Washer, Lock - Spring (3/8")
6	503-0491	1	Hose, Preformed - Upper	28	520-0564	13	*Stud
7	801-0027	4	Screw, Cap - Hex Head (5/16-24 x 7/8")	29	802-0072	2	*Screw, Cap - Socket Head (3/8-16 x 1")
8	850-0045	4	Washer, Lock - Spring (5/16")	30	850-0050	2	*Washer, Lock - Spring (3/8")
9	104-0091	3	Nut, Hex (3/8-24)	31		1	*Adapter, Carburetor Mounting
10	850-0050	3	Washer, Lock - Spring (3/8")	32	145-0120	1	*Gasket, Carburetor
11	526-0030	3	Washer, Flat (3/8")	33	154-1296	1	*Gasket, Rear Manifold
12	520-0238	2	Stud	34	154-1297	1	*Gasket, Center Manifold
13	504-9003	1	Cock, Drain (1/4 NPT)	35	154-1298	1	*Gasket, Front Manifold
14	505-0018	1	Bushing, Reducer - Hex	36	154-1299	1	*Gasket, Manifold End
			$(1/2 \text{ NPT} \times 1/4 \text{ NPT})$	37	503-0365	4	Clamp, Hose
15	505-0108	1	Tee, Pipe (1/2 NPT)	38	503-0490	1	Hose, Preformed - Lower
16	505-0019	1	Bushing, Reducer - Hex (1/2 NPT x 3/8 NPT)	39	800-0069	2	Screw, Cap - Hex Head (7/16-14 x 3/4")
17	505-0101	1	Nipple, Pipe - Close	40	850-0055	2	Washer, Lock - Spring (7/16")
			(3/8 NPT × 1"LG)	41	130-4099	1	Guard, Belt
18	505-01 75	1	Elbow, Pipe - 90° (2 NPT)	42	800-0046	3	Screw, Cap - Hex Head
19	505-0172	1	Nipple, Pipe - Close	40	100 0007	•	(3/8-16 × 1/2")
	000 0051		(2 NPT × 2"LG)	43	130-2937	1	Guard, Belt
20	800-0051	4	Screw, Cap - Hex Head	44	130-4264	1	Guard, Belt
21	526-0066	4	$(3/8-16 \times 1-1/4")$ Washer, Flat $(3/8")$	45	800-0052	1	Screw, Cap - Hex Head (3/8-16 x 1-1/2")
22	154-1335	i	Flange, Manifold - Exhaust	46	895-0296-01	1	Tubing, Glass Fiber (Not Shown)
23	505-0057	ī	Plug, Pipe - Square Head (1/8 NPT)	-,0		-	,



City Water Cooling System



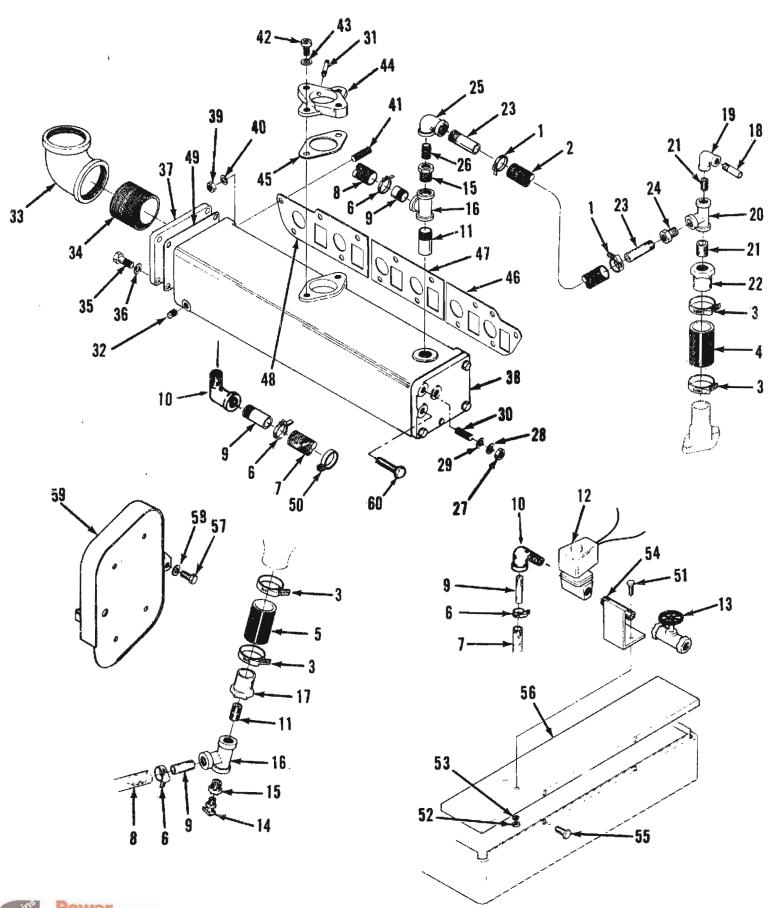


City Water Comling System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF No.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0365	4	Clamp, Hose	17	504-0019	1	Valve, Globe (1/2 NPT)
2	503-0826	2	Hose	18	505-0324	1	Nipple, Pipe - Half
3	503-0189	2	Clamp, Hose				(3/4 NPT x 2"LG)
4	503-0461	1	Hose	19	505-0132	1	Elbow, Pipe - 90 DEG
5	502-1031	3	Nipple, Pipe - Half				(3/4 NPT)
			(1/2 NPT x 2" Long)	20	505-01 02	2	Nipple, Pipe - Close
6	503-0032	2	Clamp, Hose				$(3/4 \text{ NPT} \times 1-3/8"LG)$
7	503-0586	1	Hose	21	505-0166	1	Tee, Pipe (3/4 NPT)
8	505-0010	2	Nipple, Pipe - Half	22	110-1543	1	Adapter, Hose - Hex
			$(1/2 \text{ NPT} \times 1-1/2"LG)$	23	800~0007	2	Screw, Cap - Hex Head
9	505-0020	1	Bushing, Reducer - Hex				$(1/4-20 \times 1")$
			$(3/4 \text{ NPT} \times 1/4 \text{ NPT})$	24	850-0040	2	Washer, Lock - Spring
10	504-0003	1	Cock, Drain (1/4 NPT)				(1/4")
11	505-0018	1	Bushing, Reducer - Hex	25	862-0001	2	Nut, Hex (1/4-20)
			$(1/2 \text{ NPT} \times 1/4 \text{ NPT})$	26	110-0526	1	Bracket and Nipple Assembly
12	505-0018	2	Tee, Pipe (1/2 NPT)	27	821-0014	6	Screw, Self-locking - Hex
13	505-0100	2	Nipple, Pipe - Close				Washer Head (5/16-18 x 5/8")
			$(1/2 \text{ NPT} \times 1-1/8"LG)$	28	130-0499	1	Plate, Mounting
14	110-0576	1	Adapter, Hose - Hex	29	800-0069	2	Screw, Cap - Hex Head
15	505-0050	1	Elbow, Street - 90 DEG				$(7/16-14 \times 3/4")$
			(1/2 NPT)	30	850-0055	2	Washer, Lock - Spring
16	307-0833	1	Valve, Solenoid - 12 VDC				(7/16")
			(1/2 NPT)	31	130-4099	1	Guard, Belt



Non-Regulated City Water and Wet Manifold Cooling System



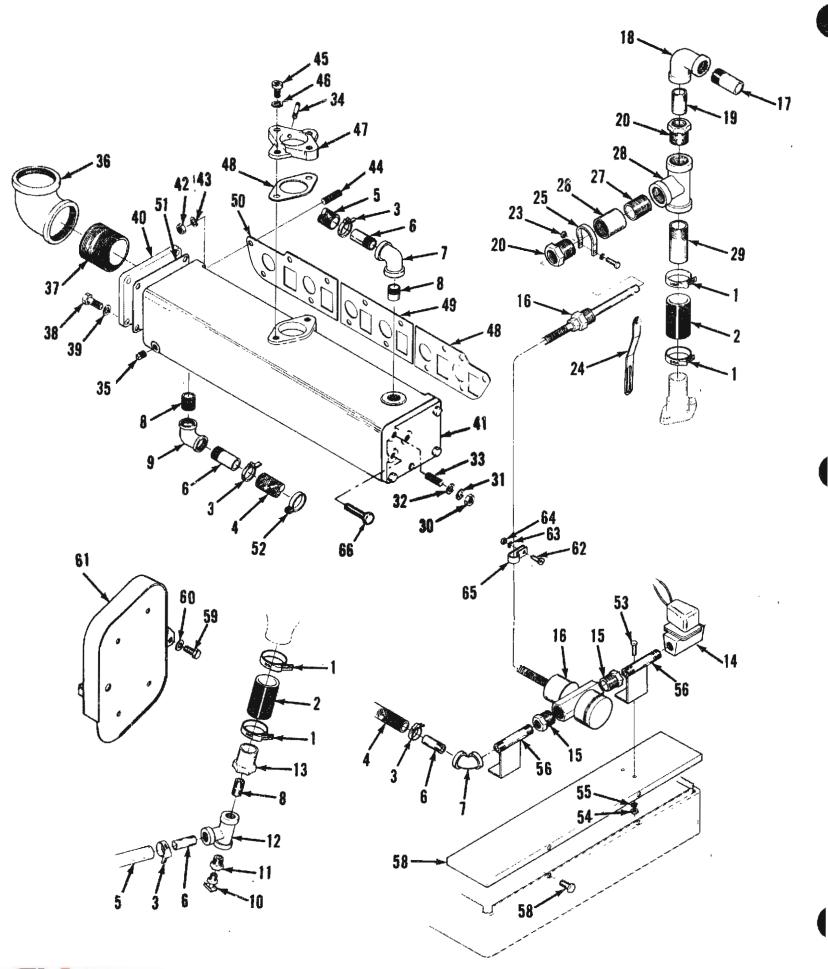
Power Generation

Non-Regulated City Water and Wet Manifold Cooling System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1 2	503~0032 503~0084	2	Clamp, Hose Hose	32	5050056	1	Plug, Pipe - Square Head (1/2 NPT)
3	503-0365	4	Clamp, Hose	33	505-0175	1	Elbow, Pipe - 90 DEG
4 5	503 -0826 503-0826	1	Hose Hose	34	505-0172	1	(2 NPT) Nipple, Pipe - Close
6	503-0183	4	Clamp, Hose	34	303 0172	T	(2 NPT x 2"LG)
7	503-1196	1	Hose, 5 Feet Long	35	800-0051	4	Screw, Cap - Hex Head
8	503-0200	1	Hose - 3 Feet Long			·	$(3/8-16 \times 1-1/4")$
9	502-1031	4	Nipple, Pipe - Half	36	526-0066	4	Washer, Flat (3/8")
			(1/2 NPT x 2" Long)	37	154-1335	1	Flange, Exhaust - Manifold
10	505-0050	2	Elbow, Street - 90 DEG (1/2 NPT)	38	154-2345	1	Manifold, Liquid Cooled (Includes Parts Marked *)
11	505-0100	2	Nipple, Pipe - Close	39	862-0003	13	*Nut, Hex (3/8-24)
			(1/2 NPT x 1-1/8"LG)		850-0050	13	*Washer, Lock - Spring (3/8")
12	307-0833	1	Valve, Solenoid - 12 VDC	41	520-0564	13	*Stud
10	FO4 0010	4	(1/2 NPT)	42	802-0072	2	*Screw, Cap - Socket Head
13	504-0019	1	Valve, Globe (1/2 NPT)	42	950-0050	2	(3/8-16 × 1")
14 15	504-0003 505-0018	1	Cock, Drain (1/4 NPT) Bushing, Reducer - Hex	43 44	850~0050	2 1	*Washer, Lock - Spring (3/8") *Adapter, Carburetor Mounting
.1.3	303-0018	1	(1/2 NPT × 1/4 NPT)	45	145-0120	1	*Gasket, Carburetor
16	505-0108	2	Tee, Pipe (1/2 NPT)	46	154-1296	1	*Gasket, Rear Manifold
17	110-0576	ī	Adapter, Hose - Hex	47	154-1297	î	*Gasket, Center Manifold
18	505-0324	ī	Nipple, Pipe - Half		154-1298	1	*Gasket, Front Manifold
			(3/4 NPT x 2"LG)	49	154-1299	1	*Gasket, Manifold End
19	505-0132	1	Elbow, Pipe - 90 DEG	50	148-0274	1	Bracket
			(3/4 NPT)	51	800-0007	2	Screw, Cap - Hex Head
20	505-0166	1	Tee, Pipe (3/4 NPT)				$(1/4-20 \times 1")$
21	505-0102	2	Nipple, Pipe - Close (3/4 NPT x 1-3/8"LG)	52	850-0040	2	Washer, Lock - Spring (1/4")
22	110-1543	1	Adapter, Hose - Hex	53	862-0001	2	Nut, Hex (1/4-20)
23	505-0010	2	Nipple, Pipe - Half	54	110-0526	1	Bracket and Nipple Assembly
		_	(1/4 NPT × 1"LG)	55	821-0014	6	Screw, Self-locking - Hex
24	505-0020	1	Bushing, Reducer - Hex				Washer Head (5/16-18 x 5/8")
25	for 0000		(3/4 NPT × 1/4 NPT)	56	130-0499	1	Plate, Mounting
25	505-0038	1	Elbow, Pipe - 90 DEG (1/4 NPT)	57	800-0069	2	Screw, Cap - Hex Head (7/16-14 x 3/4")
26	505-0099	1	Nipple, Pipe - Close (1/4 NPT x 7/8"LG)	58	850-0055	2	Washer, Lock - Spring (7/16")
27	104-0091	3	Nut, Hex (3/8-24)	59	1 30-4 099	1	Guard, Belt
	850-0050	3	Washer, Lock - Spring (3/8")	60	800-0052	1	Screw, Cap - Hex Head
29	526-0030	3	Washer, Flat (3/8")				$(3/8-16 \times 1-1/2")$
	520-0238	2	Stud	_		4.4.2	h Man 20-14
31	505-0271	1	Nipple, Pipe (1/4 NPT x 3-1/2"LG)	* -	rarts incl	uded W11	th Manifold.



Regulated City Water and Wet Manifold Cooling System



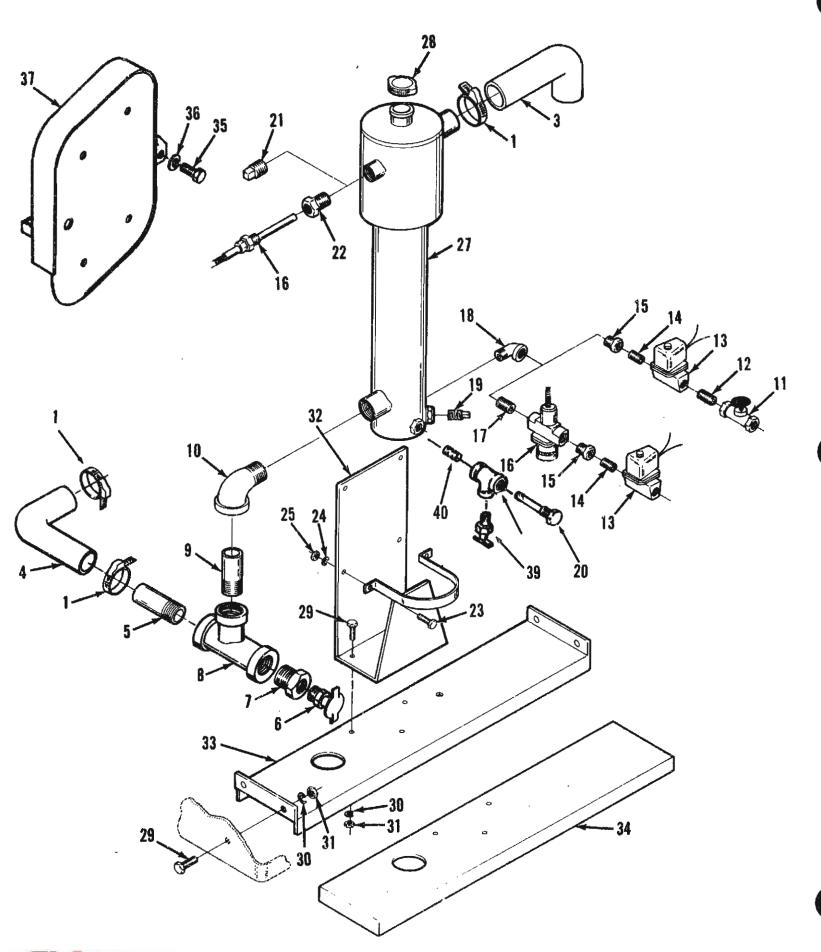


Regulated City Water and Wet Manifold Cooling System

REF	PART NO.	QTY	PART DESCRIPTION	REF	PART NO.	QTY USED	PART DESCRIPTION
110.	Ю.	VOL.	DESCRIPTION	NO.	140.	USED	DESCRIPTION
1	503-0365	4	Clamp, Hose	35	505-0056	1	Plug, Pipe - Square Head
2	503-0826	2	Hose			_	(1/2 NPT)
3	503-0183	4	Clamp. Hose	36	505-0175	1	Elbow, Pipe - 90 DEG
4	503-1196	1	Hose, 5 Feet Long			_	(2 NPT)
5	503-1194	1	Hose, I foot Long	37	505-0172	1	Nipple, Pipe - Close
6	502-1031	4	Nipple, Pipe - Half				(2 NPT x 2"LG)
			(1/2 NPT x 2" Long)	38	800-0051	4	Screw, Cap - Hex Head
7	505~0040	2	Elbow, Pipe - 90 DEG				$(3/8-16 \times 1-1/4")$
			(1/2 NPT)	39	526-0066	4	Washer, Flat (3/8")
8	505-0100	4	Nipple, Pipe - Close	40	154-1335	1	Flange, Exhaust - Manifold
			$(1/2 \text{ NPT} \times 1-1/8^{\circ} \text{LG})$	41	154-2345	. 1	Manifold, Liquid Cooled
9	505-0190	1	Elbow, Pipe - 45 DEG			·	(Includes Parts Marked *)
			(1/2 NPT)	42	862-0003	13	*Nut, Hex (3/8-24)
10	504-0003	1	Cock, Drain (1/4 NPT)	43	850-0050	13	*Washer, Lock - Spring (3/8")
11	505-0018	ì	Bushing, Reducer - Hex	44	520-0564	13	*Stud
			$(1/2 \text{ NPT} \times 1/4 \text{ NPT})$	45	802~0072	2	*Screw, Cap - Socket Head
12	505-0108	1	Tee, Pipe (1/2 NPT)				$(3/8-16 \times 1^{\circ})$
13	110-0576	1	Adapter, Hose - Hex	46	850-0050	2	*Washer, Lock - Spring (3/8")
14	307~0833	1	Valve. Solenoid - 12 VDC			1	*Adapter, Carburetor Mounting
			(1/2 NPT)	47	145-0120	1	*Gasket, Carburetor
15	5050021	2	Bushing, Reducer - Hex	48	154-1296	1	*Gasket, Rear Manifold
		_	(3/4 NPT x 1/2 NPT)	49	154-1297	1	*Gasket, Center Manifold
16	309-0241	1	Valve, Regulating -	50	154-1298	1	*Gasket, Front Manifold
	FOF 0884		Temperature	51	154-1299	1	*Gasket, Manifold End
17	505-0324	1	Nipple, Pipe - Half	52	1480274	1	Bracket
10	POS AARI	•	(3/4 NPT x 2"LG)	5 3	800-0007	2	Screw, Cap - Hex Head
18	505-0051	1	Elbow, Pipe - 90 DEG	E 4	850-0040	2	(1/4-20 x 1")
19	505-0102	1	(3/4 NPT) Nipple, Pipe - Close	54	850-0040	2	Washer, Lock - Spring (1/4")
13	300 0102	1	(3/4 NPT x 1-3/8"LG)	55	862-0001	2	Nut, Hex (1/4-20)
20	505-0289	2	Bushing, Reducer - Hex	56	110-0526	1	Bracket and Nipple Assembly
2.0	000 0203	-	(1-1/2 NPT × 3/4 NPT)	57	821-0014	6	Screw, Self-locking - Hex
21	800~0005	1	Screw, Cap - Hex Head	•	021 0014	•	Washer Head (5/16-18 x 5/8")
	000	-	(1/4-20 x 3/4")	58	130-0499	1	Plate, Mounting
22	850-0040	1	Washer, Lock - Spring (1/4")	59	800-0069	2	Screw, Cap - Hex Head
23	862-0001	1	Nut, Hex (1/4-20)	-		_	$(7/16-14 \times 3/4")$
24	130-0757	ī	Bracket, Support - Pipe	60	850-0055	2	Washer, Lock - Spring
25	130-0522	ī	Clamp, Loop				(7/16")
26	505-0032	1	Coupling, Pipe (1-1/2 NPT)	61	130-4099	1	Guard, Belt
27	505-0642	1	Nipple, Pipe (1-1/2 NPT x	62	812-0079	1	Screw, Machine - Round Head
			2-1/2*LG)				(#8-32 × 1/2")
28	505-0317	1	Tee, Pipe (1-1/2 NPT)	63	850-0025	1	Washer, Lock - Spring (#8)
29	505-0385	.1	Nipple, Pipe - Half	64		1	Nut, Hex (#8-32)
			(1-1/2 NPT x 2"LG)	65		1	Clamp, Loop
	104-0091	3	Nut, Hex (3/8-24)	66	800-0052	1	Screw, Cap - Hex Head
_	850-0050	3	Washer, Lock - Spring (3/8")				(3/8-16 x 1-1/2")
	526-0030	3	Washer, Flat (3/8")	* _	Parts Inch	uded wit	th Manifold.
	520-0238	2	Stud				
3.4	505-0271	1	Nipple, Pipe (1/4 NPT x				
			3-1/2*LG)				



City Water and Heat Exchanger Cooling System



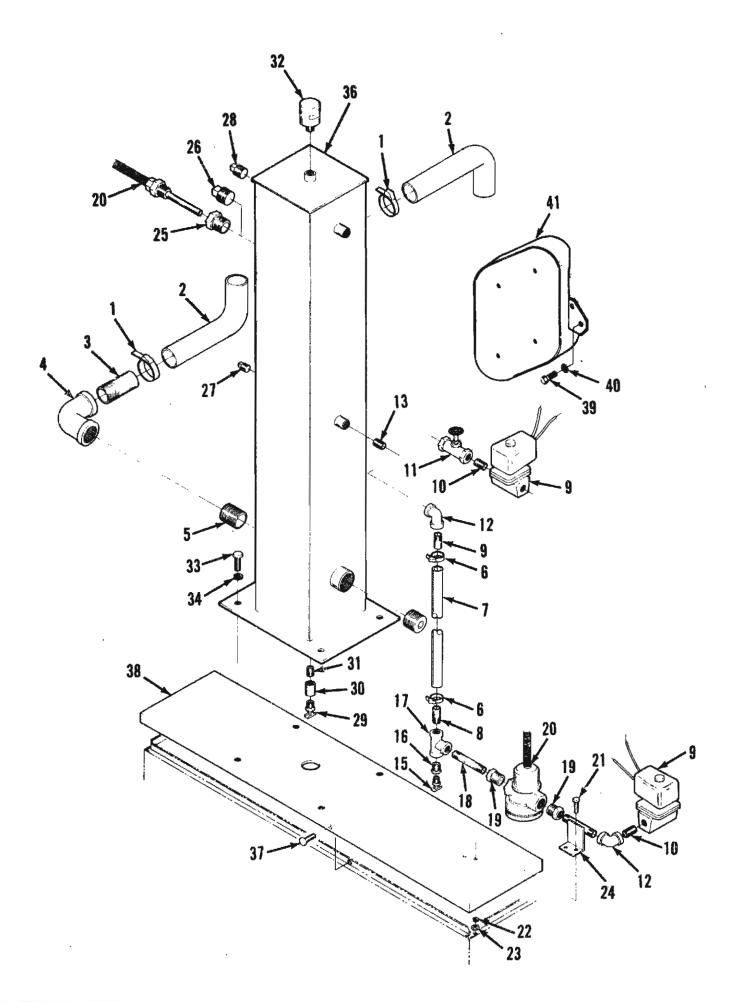


City Water and Heat Exchanger Cooling System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0365	4	Clamp, Hose	20	130-1340	1	Pencil, Zinc
3	503 0491	1	Hose - Preformed	21	505-0140	1	Plug, Pipe - Square Head
4	503-0490	1	Hose - Preformed				(1 NPT)
5	505-0444	1	Nipple, Pipe - Half (1-1/2 NPT x 2-1/4"LG)	22	505-0129	1	Bushing, Reducer - Hex (1 NPT x 3/4 NPT)
6	504 -0003	1	Cock, Drain (1/4 NPT)	23	800-0004	4	Screw, Cap - Hex Head
7	505 0426	1	Bushing, Reducer - Hex				$(1/4-20 \times 5/8")$
			$(1-1/2 \text{ NPT} \times 1/4 \text{ NPT})$		850-0040	4	Washer, Lock - Spring (1/4")
8	505-0317	1	Tee, Pipe (1-1/2 NPT)		862-0001	1	Nut, Hex (1/4-20)
9	505-0642	1	Nipple, Pipe - Half	26		2	Strap, Retaining
			(1-1/2 NPT x 4"LG)	27		1	Exchanger, Heat (Includes Cap)
10	505-0462	1	Elbow, Pipe - Street, 90 DEG	28	130-0661	1	Cap, Radiator
			(1-1/2 NPT)	29	800-0026	9	Screw, Cap - Hex head
11	504-0019	1	Valve, Globe (1/2 NPT)				$(5/16-18 \times 3/4")$
12	505-0100	1	Nipple, Pipe ~ Close	30	850-0045	9	Washer, Lock - Spring (5/16")
			$(1/2 \text{ NPT} \times 1-1/8"LG)$	31		9	Nut, Hex (5/16-18)
13	307-0833	1	Valve, Solenoid - 12 VDC	32		1	Bracket, Mounting
			(1/2 NPT)	33	130-0828	1	Plate, Mounting - Housed Set
14	505-0100	1	Nipple, Pipe - Close (1/2 NPT x 1-1/8"LG)	34	130-0805	1	Plate, Mounting - Unhoused Set
15	505-0021	1	Bushing, Reducer - Hex (3/4 NPT x 1/2 NPT)	35	800-0069	2	Screw, Cap - Hex Head (7/16-14 x 3/4")
16	309-0241	1	Valve, Regulating -	36	850-0055	2	Washer, Lock - Spring (7/16")
			Temperature	37	130-4099	1	Guard, Belt
17	505-0102	1	Nipple, Pipe - Close (3/4 NPT x 1-3/8"LG)	38	504-0005	1	Cock, Drain (1/8 NPT) Begin Spec R (Not Illustrated)
18	505-0691	1	Elbow, Pipe - Street, 45 DEG	39	504-0028	1	Cock, Drain (1/4 NPT)
			(3/4 NPT)	40	505-0098	1	Nipple, Close (1/4 NPT)
19	505-0130	1	Plug, Pipe - Square Head	41	505-0184	1	Tee, Pipe (1/4 NPT)
			(3/4 NPT)	42	895-0296-01	1	Tubing, Glass Fiber(Not Shown)



City Water and Standpipe Cooling System



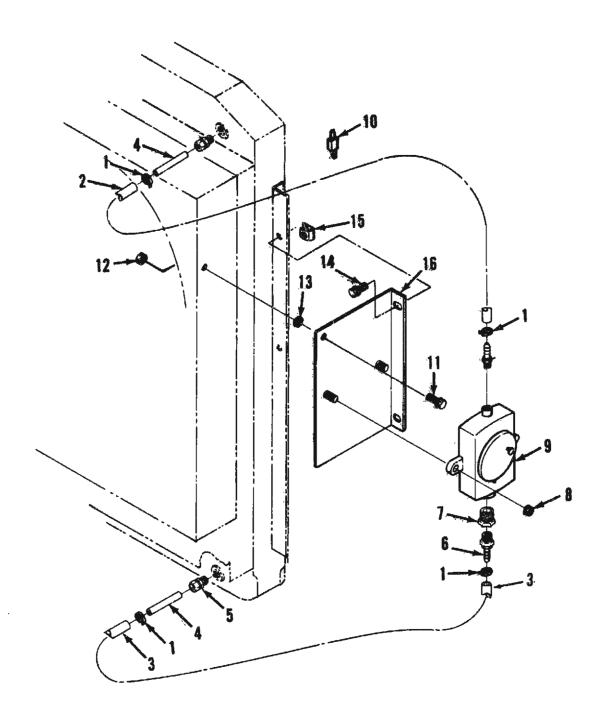


City Water and Standpipe Cooling System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0365	4	Clamp. Hose	20	309-0241	1	Valve, Regulating -
2			Hose - Preformed				Temperature
	503-0490	i	Lower	21	800-0027	2	Screw, Cap - Hex Head
	503-0491	1	Upper				(5/16-18 x 7/8")
3	505-0385	1	Nipple, Pipe Half		850-0045	2	Washer, Lock - Spring (5/16")
			$(1-1/2 \text{ NPT} \times 2"\text{LG})$	23	862-0015	2	Nut, Hex (5/16-18)
Ą	505-0183	3	Elbow, pipe - 90 DEG, Reducing	24	110-0526	1	Bracket and Nipple Assembly
			$(1-1/2 \text{ NPT } \times 1/1/4 \text{ NPT})$	25	505-0129	1	Bushing, Reducer - Hex
5	505-02 58	1	Nipple, Pipe (1-1/4 NPT x 3"LG)				$(1 \text{ NPT} \times 3/4 \text{ NPT})$
6	503~0189	2	Clamp, liose	26	505-0140	1	Plug, Pipe - Square Head
7	503-0437	1	Hose				(1 NPT)
8	502-1031	2	Nipple, Pipe - Half (1/2 NPT x 2" Long)	27	505-0056	1	Plug, Pipe - Square Head (1/2 NPT)
9	307-0833	1	Valve, Solenoid ~ 12 VDC (1/2 NPT)	28	505-0130	2	Plug, Pipe - Square Head (3/4 NPT)
10	505-0100	î	Nipple, Pipe - Close	29	504-0028	1	Cock, Drain (3/8 NPT)
			(1/2 NPT x 1-1/8"LG)	30	505-0028	1	Coupling, Pipe (3/8 NPT)
11	504-0019	1	Valve, Globe (1/2 NPT)	31	505-0101	1	Nipple, Pipe - Close
12	505-0040	2	Elbow, Pipe - 90 DEG				(3/8 NPT x 1"LG)
			(1/2 NPT)	32	504-0062	1	Valve, Relief ~ Vacuum
13	505-0100	1	Nipple, Pipe - Close (1/2 NPT x 1-1/8"LG)	33	800-0048	4	Screw, Cap - Hex Head (3/8-16 x 3/4")
14	505-0949	1	Plug, Pipe - Socket Head	34	850-0050	4	Washer, Lock - Spring (3/8")
			(1-1/4 NPT)	36	130-0659	1	Standpipe
15	504-0028	1	Cock, Drain (3/8 NPT)	37	821-0018	6	Screw, Self-locking - Hex
16	505-0019	ī	Bushing, Reducer - Hex				Washer Head (1/4-20 x 5/8")
		_	(1/2 NPT x 3/8 NPT)	38	130-0636	1	Plate, Mounting
17	505~0108	1	Tee, Pipe (1/2 NPT)	39	800-0069	2	Screw, Cap - Hex Head
18	505-0002	ī	Nipple, Pipe (1/2 NPT x 3"LG)				$(7/16-14 \times 3/4")$
19	505-0021	ī	Bushing, Reducer - Hex	40	850-0055	2	Washer, Lock - Spring (7/16")
			(3/4 NPT × 1/2 NPT)	41	130-4099	1	Guard, Belt



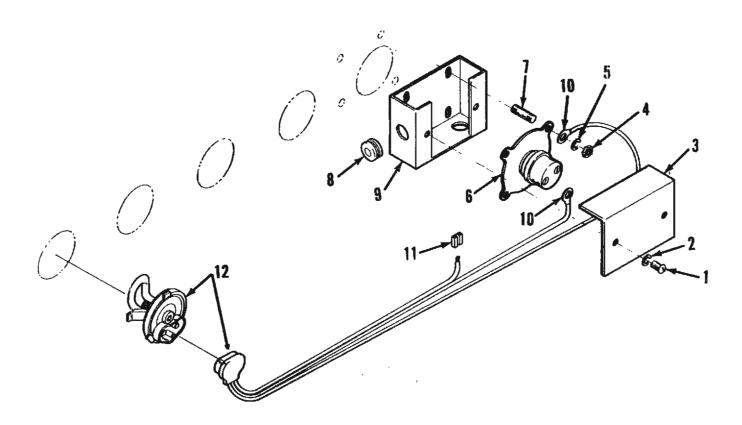
Low Water Level Switch



REF	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0685	4	Clamp, Hose	10	357-0030	2	Diode
2	503-1418	1	Hose, 1/4"x10"	11	821-0015	1	Screw, Self-locking - Hex
3	503-1418	1	Hose, 1/4"x13"				Washer Head $(1/4-20 \times 3/4")$
4	130-2053	2	Tube (1/4"00 x 2"LG)(Copper)	12	870-0212	1	Nut, Self-locking - Hex
6	502-0801	2	Connector, Hose				Washer Head (1/4-20)
7		_	Bushing, Reducer - Hex	13	526-0018	2	Washer, Flat (1/4")
•	505-0802	1	1" NPT x 1/4" NPT - Specs C-P	14	821-0014	2	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")
	502-0029-04	1	1/2" NPT x 1/4" NPT -	15	870-0113	2	Nut, Retainer (5/16-18)
	002 0023 04	•	Begin Spec R	16	405-4659	1	Plate, Mounting
8	870-0212	2	Nut, Self-locking - Hex Washer Head (1/4-20)				
_							
9	4		Switch, Level - Water				
	193-0329	1	Specs C-P		,		
	193-0292	1	Begin Spec R		,		

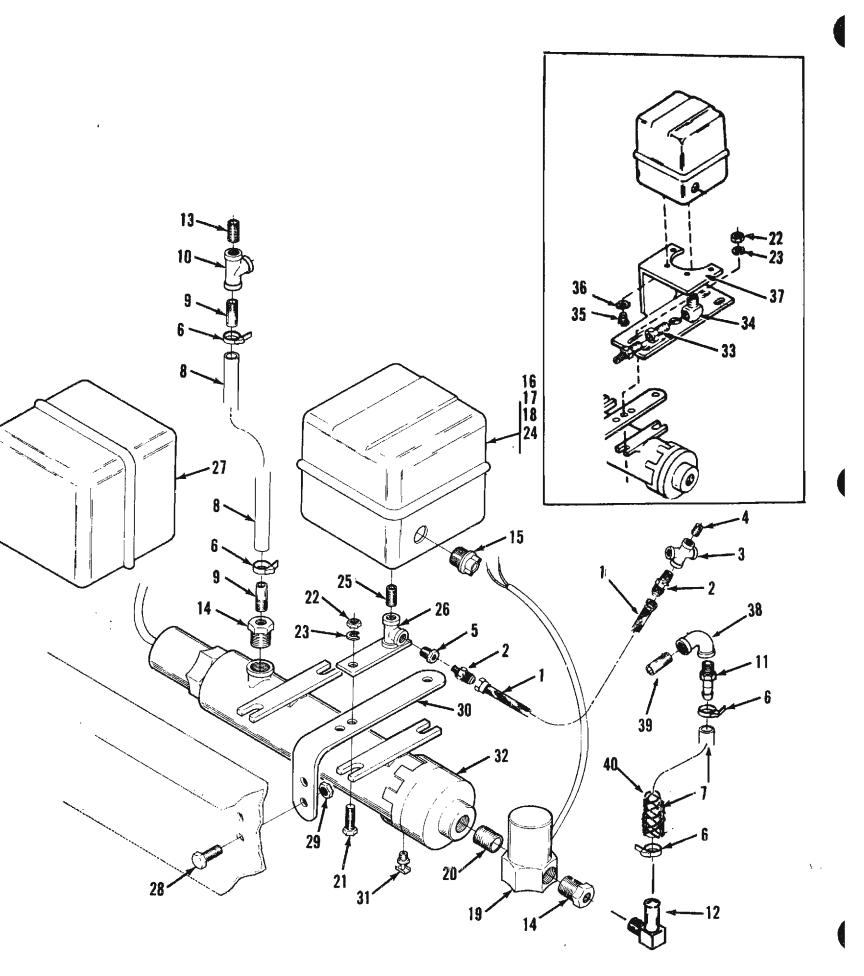


Water Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	812-0076	2	Screw, Machine - Round Head	7			Stud
			(#8-32 x 5/16")		520-0446	2	#10-32 × 3/4"
2	850-0025	2	Washer, Lock - Spring (#8)				For 120 Volt Application
3			Cover, Box		520-0672	2	#10-32 × 1"
	333~0013	1	For 120 Volt Application				For 240 Volt Application
	333-0056	1	For 240 Volt Application	8	508-0008	2	Grommet
4	870-0053	2	Nut, Hex (#10-32)	9			Box
5	850-0030	2	Washer, Lock - Spring (#10)		333-0012	1	For 120 Volt Application
6			Switch, Thermostatic		333-0057	1	For 240 Volt Application
	309-0106	1	120 Volt, 25 Amp, SPST	10	332-0014	2	Terminal
	309-0256	1	120/240 Volt, 25-40 Amp,	11	323-0957	1	Nut, Wire
			DPST	12	333-0118	1	Heater, Electrical (Includes Plug-in Cable)



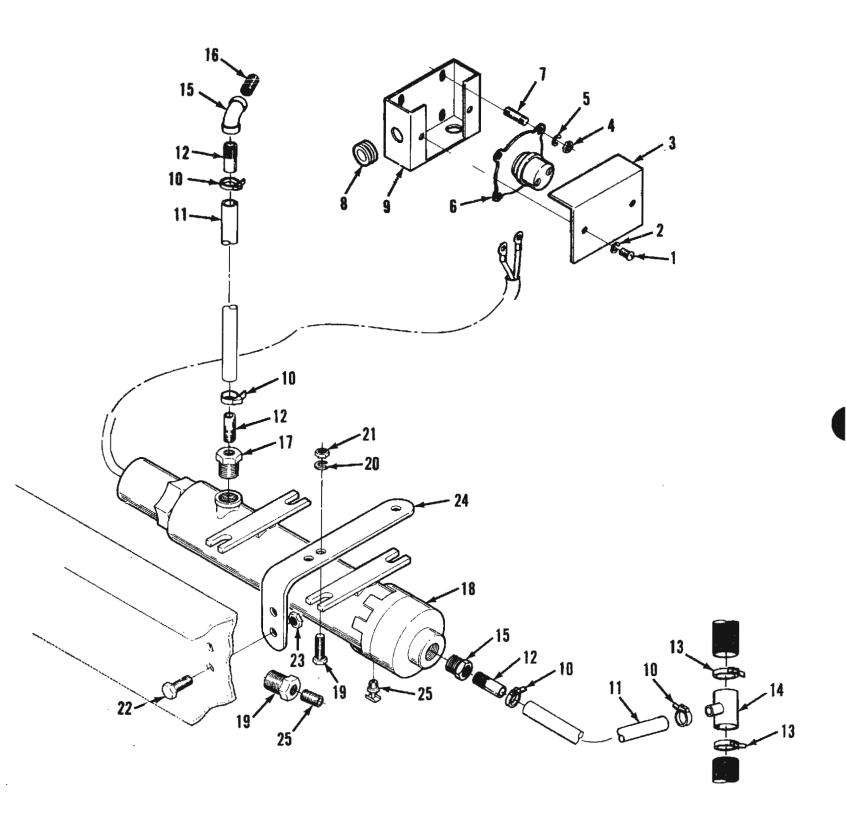




Water Heater

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0199	1	Line, Fuel - Flexible	27			Contactor, Electrical
2	502-0193	2	Connector, Tube to Pipe		307-1460	1	230 VAC, 3 Pole
3	505-0763	1	Cross, Pipe (1/8 NPT)		307-1164	1	460 VAC, 3 Pole
4	505-0098	1	Nipple, Pipe - Close (1/8 NPT × 3/4"LG)	28	821-0016	4	Screw, Self-Locking - Hex Washer Head (5/16-18 x 3/4")
5	505-0007	1	Bushing, Redcer - Hex (1/4 NPT x 1/8 NPT)	29	870-0257	4	Nut, Self-Locking - Hex Washer Head (5/16-18)
6	503-0183	4	Clamp, Hose	30	130-1192	2	Bracket, Mounting
7	503-0710	1	Hose, Rubber 5/8" x 22"LG	31	504~0003	1	Cock, Drain (1/4 NPT)
8	503-0113	1	Hose, Heater 5/8" x 16"LG	32			Heater, Electrical - 1500 Watt
9	505-0135	2	Nipple, Pipe - Half				1 Phase
			$(3/8 \text{ NPT} \times 1-1/2\text{"LG})$		333-0093	1	115 VAC
10	505-0060	1	Tee, Pipe (3/8 NPT)		333-0177	1	208 VAC
11	502-0613	1	Adapter, Pipe to Hose		333-0162	1	240 VAC
			(1/4 NPT)		333-0168	1	480 VAC
12	502-0942	1	Elbow, Pipe - 90 DEG				3 Phase
			(3/8 NPT) Beaded		333-0171	1	208 VAC
13	505-0101	1	Nipple, Pipe - Close		333-0178	1	380 VAC
			(3/8 NPT x 1"LG)		333-0173	1	480 VAC
14	505-0455	2	Bushing, Reducer - Hex (1 NPT x 3/8 NPT)	33	505-0007	1	Bushing, Reducer - Hex (1/4 NPT x 1/8 NPT)
15	331-0027	2	Connector, Cable				Begin 1983
16	332-0014	2	Terminal, Ring (#10)	34	502-0054	1	Elbow, Pipe - Street, 90 DEG
17	332-0149	4	Terminal, Ring (#8)				Brass (1/4 NPT)
	332-0807	4	Terminal, Ring (Not Shown)				Begin 1983
18	323-0957	5	Nut, Wire	35	812-0079	4	Screw, Machine - Round Head
19	309-0304	1	Switch, Thermostatic				(#8-32 x 1/2")
20	505-0004	1	Nipple, Pipe - Close				Begin 1983
			$(1 \text{ NPT} \times 1-1/4\text{*LG})$	36	850-0025	4	Washer, Lock - ET (#8)
21	800-0007	4	Screw, Cap - Hex Head				Begin 1983
			$(1/4-20 \times 1")$	37	333-0224	1	Bracket, Support
22	862-0001	4	Nut, Hex (1/4-20)				Begin 1983
23	850-0040	4	Washer, Lock - Spring (1/4")	38	_ +	1	Elbow, Pipe - 90 DEG
24	309-0307	1	Switch, Pressure	39	505-0099	1	Nipple, Pipe - Close 1/4 NPT
25	505-0099	1	Nipple, Pipe - Close (1/4 NPT × 7/8"LG) 1970 thru 1982	40	895-0295-01	AR	Tubing, Fiberglass - 2 Foot Lengths
26	333-0142	1	Support with Tee 1970 Thru 1982				



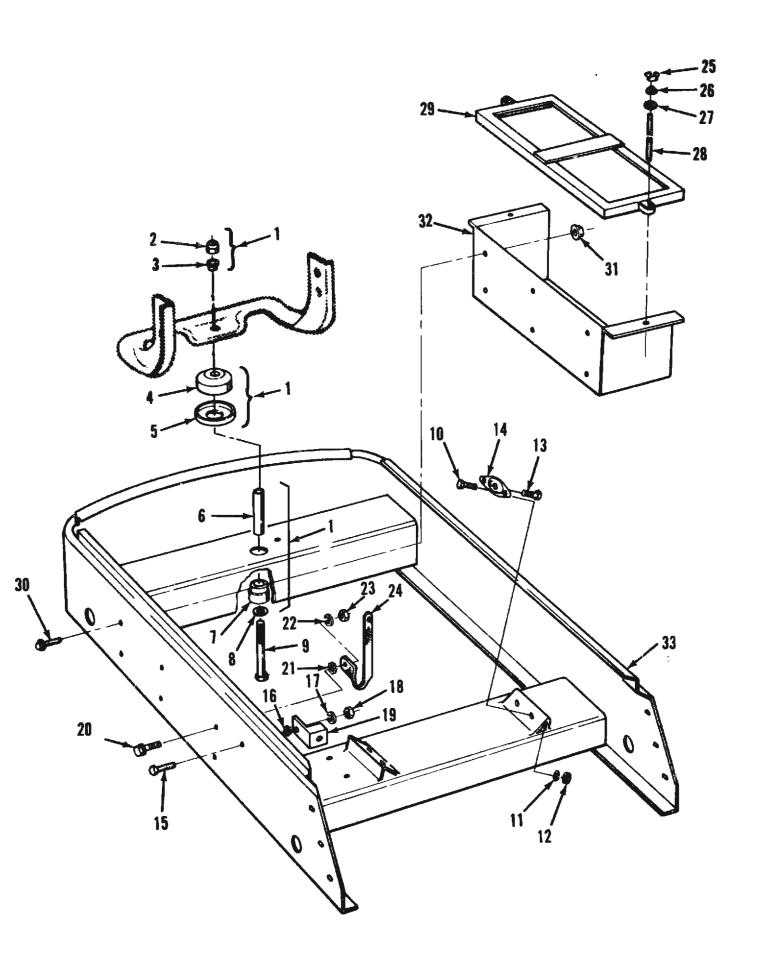




Water Heater

REF NO.	PART NO.	OTY	PART DESCRIPTION	REF NO.	PART NO.	OTY USED	PART DESCRIPTION
ì	812-0076	2	Screw, Machine - Round Head	13	503-0311	2	Clamb, riose
			(#8-32 × 5/16")	14	503-0517	1	Adapter, Hose
2 3	8500025	2	Washer, Lock - Spring (#8) Cover, Box	15	505-0190	1	Elbow, Pipe - 45 DEG (1/2 NPT)
	333 · 0013	1	For 120 Volt Application	16	505-0106	1	Nipple, Pipe - Close
	333-0056	À	For 240 Volt Application				(1/2 NPT x 1-1/2")
4	870-0053	2	Nut. Hex (#10-32)	17	505-0021	2	Bushing, Reducer - Hex
5	850-0030	2	Washer, Lock - Spring (#10)				(3/4 NPT x 1/2 NPT)
6			Switch, Thermostatic	18			Heater, Electrical
	309-0106	1	120 VAC, 25 AMP, SPST		333-0093	ì	1500 Watt, 120 VAC, 1 Phase
	309-0256	1	120/250 VAC, 40-25 AMP,		333-0177	1	1500 Watt, 208 VAC, 1 Phase
			DPST		333-0171	1	1500 Watt, 208 VAC, 3 Phase
7			Stud		333-0162	1	1500 Watt, 240 VAC 2 Phase
	520-0446	2	#10-32 x 3/4"	19	800-0007	4	Screw, Cap - Hex Head
	520-0672	2	#10-32 × 1"				$(1/4-20 \times 1")$
8	508~0008	2	Grommet	20	862-0001	4	Nut, Hex (1/4-20)
9			Box, Thermostat	21	850-0040	4	Washer, Lock - Spring (1/4")
	333-0012	1	For 120 Volt Application	22	821-0018	4	Screw, Self-Locking - hex
	333-0057	1	For 240 Volt Application				Washer Head (5/16-18 x 3/4")
10	503-0189	4	Clamp, Hose	23	870-0257	4	Nut, Self-Locking - hex
11	503-0833	AR	Hose, Rubber - 24" Long				Washer, Head (5/16-18)
12	502 - 1031	3	Nipple, Pipe - Half	24	130-1192	2	Bracket, Mounting
			(1/2 NPT x 2" Long)	25	504-0003	1	Cock, Drain (1/4 NPT)



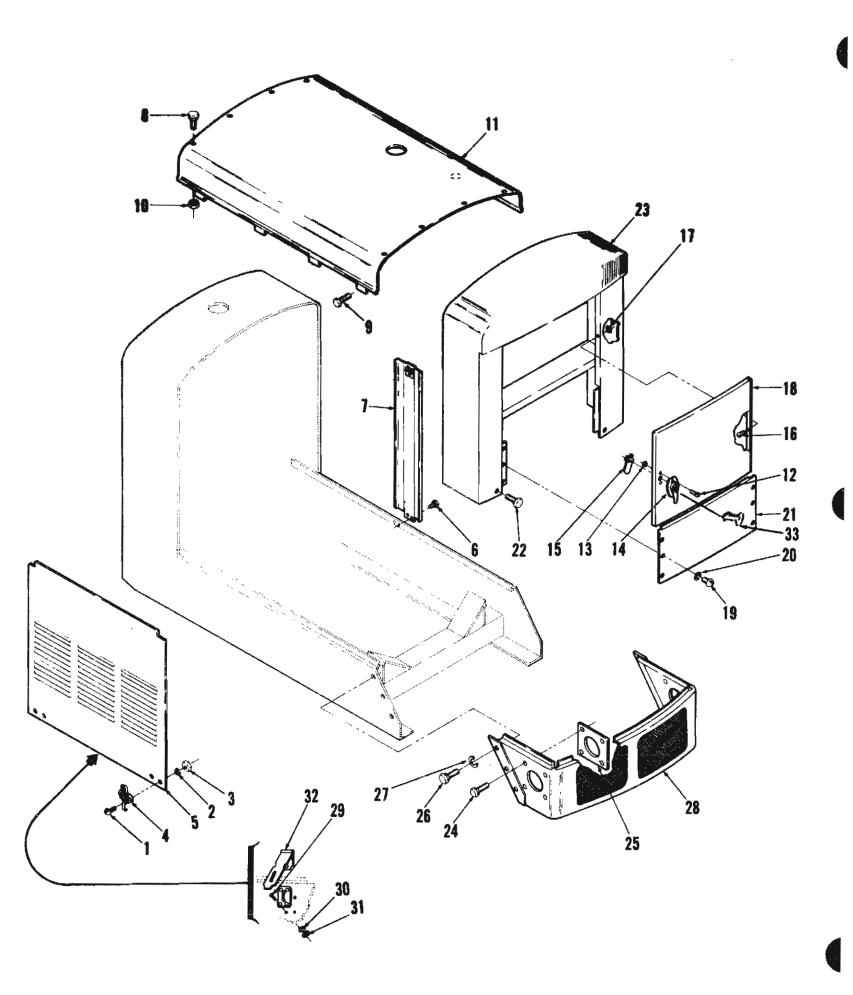




Chassis

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	402-0338	1	Mount, Vibration	18	862-0015	1	Nut, Hex (5/16-18)
			(Includes Parts Marked *)	19	332-1473	1	Lug
2	870-0068	1	*Nut, Self-locking - Hex (7/16-20)	20	800-0091	1	Screw, Cap - Hex Head (1/2-13 x 1-1/4"LG)
3	402-0337	1	*Spacer	21	850-0060	1	Washer, Lock - Spring (1/2")
4	402-0010	1	*Mount	22	856-0013	1	Washer, Lock - ET/IT (1/2")
5	402-0012	1	*Cup, Metal	23	962-0018	1	Nut, Hex (1/2-13)
6	402-0011	1	*Mount	24	337-0090	1	Strap, Electrical - Ground
7	463-0633	1	*Spacer	25	865-0007	2	Nut, Wing (5/16-18)
8	526-0141	1	*Washer, Flat (7/16")	26	850-0045	2	Washer, Lock - Spring (5/16")
9	801-0080	1	*Screw, Cap - Hex Head	27	526-0115	2	Washer, Flat (5/16")
_		_	$(7/16-20 \times 3-1/2^{*})$	28	520-0663	2	Stud
10	800-0071	4	Screw, Cap - Hex Head (7/16-14 x 1")	29	416-0612	1	Frame, Holddown - Battery Used Thru 4-90
11	850-0055	4	Washer, Lock - Spring (7/16")		416-0972	1	Use Beginning 5-90
12	862-0004	4	Nut, Hex (7/16-14)	30	821-0029	3	Screw, Self-locking - Hex
13	800-0520	2	Screw, Cap - Hex Head				Washer Head $(3/8-16 \times 3/4")$
			$(3/4-10 \times 1^{\circ})$	31	870- 0281	3	Nut, Self-locking - Hex
14	402-0030	2	Mount, Vibration				Washer Head (3/8-16)
15	800-0029	1	Screw, Cap - Hex Head	32	416-0687	1	Tray - Battery
			$(5/16-18 \times 1^*)$	33	403-0902	1	Chassis
16	856-0008	1	Washer, Lock - ET/IT (5/16")				
17	850-0045	1	Washer, Lock - Spring (5/16")	* -	Parts Incl	uded wit	h Vibration Mount.

Current Power Generation



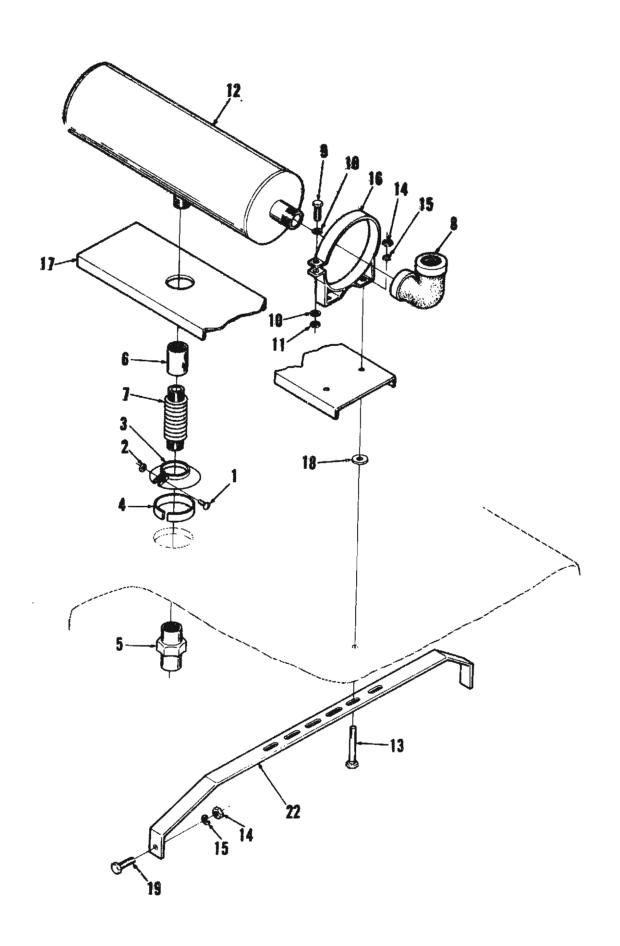


Set Housing

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	313 0098	16	Screw, Machine - Round Head	17	870-0106	3	Nut, Speed (1/4")
			(#10-32 x 3/8")	18	405-1777	1	Door, Access - Rear
2	850 0030	16	Washer, Lock - Spring (#10)	19	813-0098	6	Screw, Machine - Round Head
3	870-0053	16	Nut, Hex (#10~32)				$(#10-32 \times 3/8^{4})$
4	406-0105	8	Clamp, Door	20	850 -0030	6	Washer, lock - Soring (#10)
5	405-1808	4	Door, Access (Less Latches)	21	405-1780	1	Panel, Access - Rear
б	821-0014	8	Screw. Self-locking - Hex Washer Head (5/16-18 x 1/2")	22	821-0014	8	Screw, Self-locking Hex Washer Head (5/16-18 x 1/2")
7	405-1814	2	Support, Housing - Center	23		1	Panel, Housing - Rear
8	821-0014	12	Screw, Self-locking - Hex		405-1812	1	Spec C-P
			Washer Head (5/16-18 x 1/2")		405-2084	1	Begin Spec R
9	821 0016	4	Screw, Self-locking - Hex Washer Head (5/16-18 x 3/4")	24	821-0010	8	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")
10	870 -0113	12	Nut, Clinch (5/16-18)	25	403-0895	2	Cover
11			Panel, Housing - Top	26	800-0048	6	Screw, Cap - Hex Head
	405-1809	1	Dry Exhaust Manifold Set				$(3/8-16 \times 3/4")$
	405-1835	1	Wet Exhaust Manifold Set	27	850-0050	6	Washer, lock - Spring (3/8")
1.2	812-0149	2	Screw, Machine - Round Head	28	403-0894	1	Chassis - Rear
			$(1/4-20 \times 9/16")$	29	814-0079	28	Screw, Machine - Flat Head
13	870-0232	2	Nut, Self-locking - Hex				(#8-32 x 1/2")
			with ET Lock Washer (1/4-20)	30	850 -0025	28	Washer, Lock - Spring (#8)
1.4	406-0157	1	Handle, Latch (Includes Keys)	31	860-0008	28	Nut, Hex (#8-32)
i5	406-0089	1	Catch, Latch	32	406-0249	4	Set . Hasp
16	809-0059	3	Screw, Tapping - Round Head (1/4 x 1/2")	33	406 -0565	1	Kev



Exhaust Muffler "EK Spec A,B - EN Spec C-U"



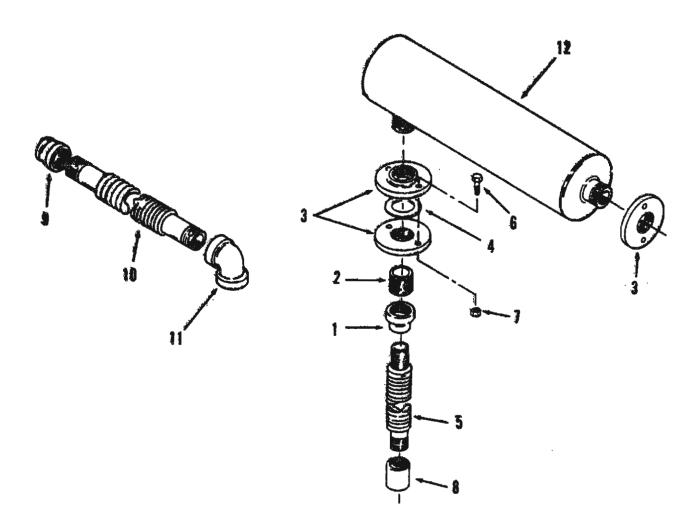


Exhaust Muffler "EK Spec A,B - EN Spec C-U"

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART Description
1	813-0105	2	Screw, Machine - Round Head	13			Screw, Cap - Hex Head
			(#10-32 x 1")		800-0028	4	5/16-18 x 1"
2	870-0188	2	Nut, Self-locking - Hex		800-0037	4	5/16-18 x 3" - Begin Spec S
			Washer Head (#10-32)	14	870-0048	4	Nut, Self-locking - Hex
3	155-1420	1	Shield, Rain				(5/16-18)
4	895-0157	1	Strip, Asbestos	15	850-0045	4	Washer Lock - Spring (5/16")
5	505-0454	1	Union, Pipe (2 NPT)	16			Band, Mounting
6	505-0203	i	Coupling, Pipe (2 NPT)		140-0649	2	Steel Band
7	155-1593	1	Tube, Exhaust - Flexible (12")		140-1588	2	Stainless Steel
8	505-0453	ī	Elbow, Pipe - 90 DEG (3 NPT)	17		_	Shield, Heat
9	800-0035	â	Screw, Cap - Hex Head		155-0978	1	Painted Aluminum Silicon
•	400 0000	Ū	(5/16-18 × 2-1/2")		155-1644	ī	Stainless Steel
10	526-0113	6	Washer, Flat (5/16")	18	155-1430	Ā	Spacer
11	870-0257	3	Nut, Self-locking - Hex	19	800-0028	4	Screw, Cap - Hex Head
11	010 0231	3	Washer Head (5/16-18)	20	000 0020	•	(5/16-18 × 1")
12			Muffler, Exhaust	20	155-1634	1	Shield, Rain - Begin Spec S
	155-0988	1	Painted with Black Silicon	21	813-0307	2	Screw, RHM (10-32 x 1")
		•	Paint	22	155-0789	2	Bracket, Support
	155-1512	1	Stainless Steel		870-0054	2	Nut, Lock (10-32)



Muffler (EK Begin Spec C - EM Begin Spec V)



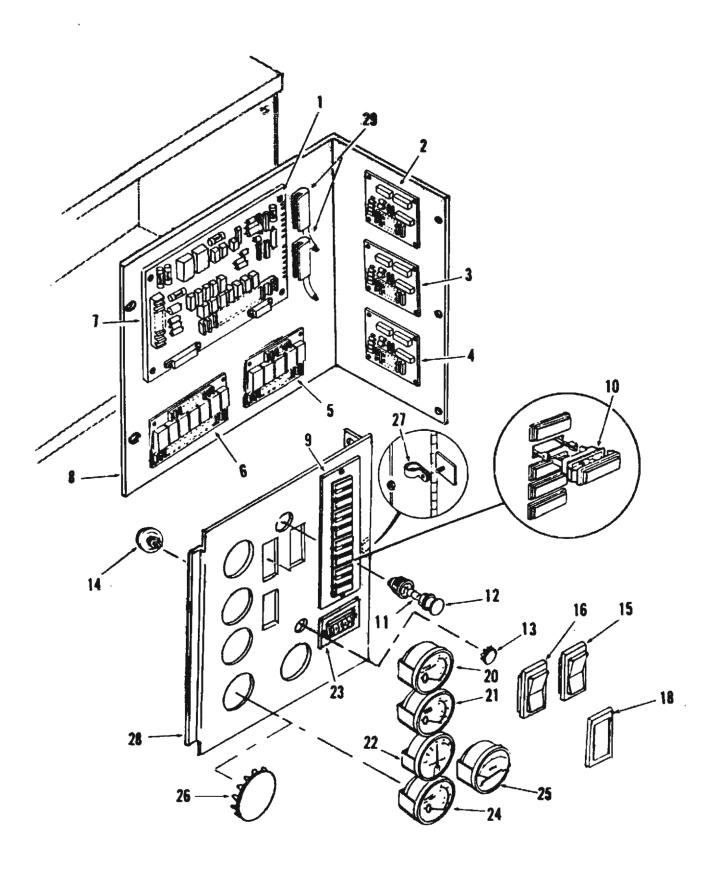


Muffler (EK Begin Spec C - EM Begin Spec V)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	50 5-0111	1	Coupling, Reducer (2.00x2.50)	8	505-0203	1	Coupling, Pipe
2	505-0103	1	Nipple, Pipe	9	505-0111	1	*Coupling, Reducer (2.00x2.50)
3	155-0899	3	Flange, Companion	10	155-0776-01	1	*Tube Assembly
4	155-0898	1	Gasket, Flange - Companion	11	505-0044	1	*Elbow, Pipe - 90' (2-1/2"NPT)
5	155-0775	1	Tube Assembly	12			Muffler
6	800-0135	4	Screw, Cap - Hex Head		155-2341-08	1	Residential
•			$(5/8-11 \times 2.25")$		155-2340-08	1	Industrial
7	862-0007	4	Nut, Hex (5/8-11)		155-2342-08	1	Critical

^{*}For end inlet applications - Use other for side inlet applications.



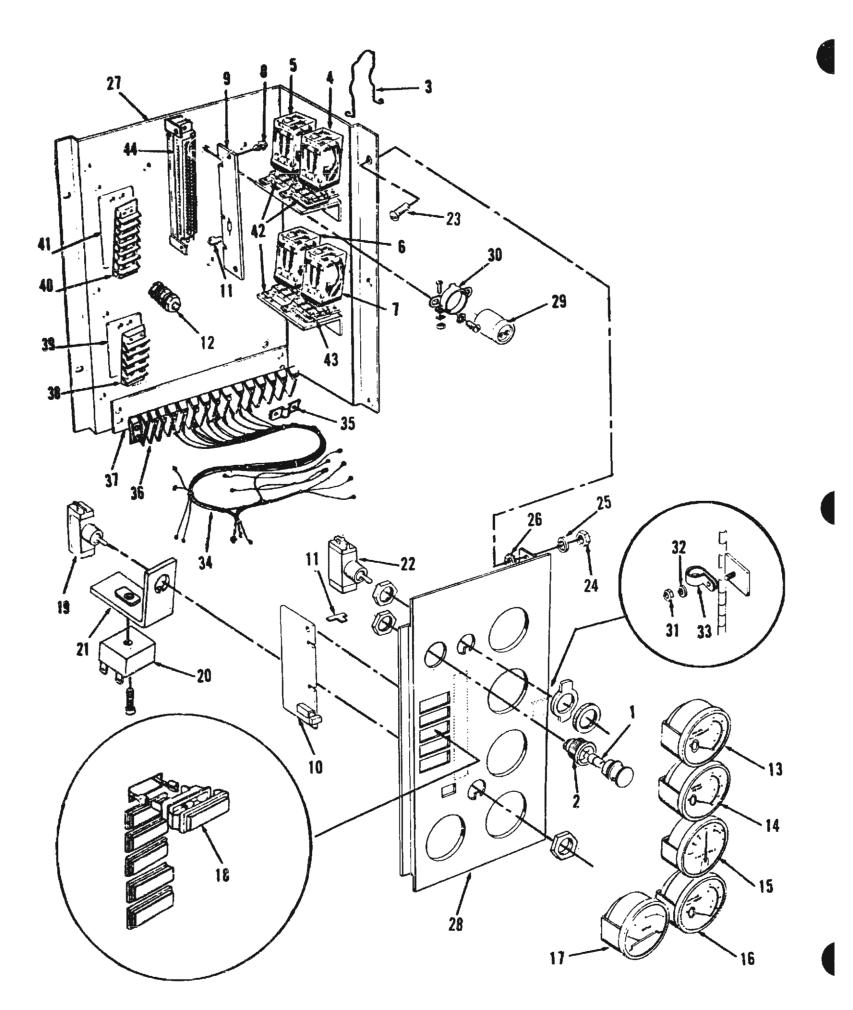




Engine Control - Begin Spec P, Begin Spec A

REF	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0544	24	Screw, Machine - Round Head With IT Lock Washer	11	322-0004	1	Lamp, Incandescent - 14 VDC DS11
			(#6-32 x 1/2*)	12	322-0361	1	Holder, Lamp
2	300-2897	1	Board - Time Delay,	13	517-0131	1	Plug, Button
			Start/Stop - 12 VDC A15	14	151-0402	1	Potentiometer - Speed
3			Board - Magnetic Sensor,				Control R11
			Start Disconnect/Over Speed	15			Switch, Push - Reset/Panel
			Sensor A16				Lamp S11
	300-2901	1	Sta ndard		308-0785	1	Through Spec R
	300-2902	1	Precision		308-0892	1	Spec S
4	300-2905	1	Board - Over-Under Voltage	16	308-0784	1	Switch, Push - Run/Stop/
			Sensor - 12 VDC A17				Remote S12
5	300-2855	1	Board - 5 Relay	17	812-0063	8	Screw, Round Head - Begin
			12 VDC A13				Spec T (6-32 x 1/2")
6	300-2862	1	Board - 7 Relay	18	301-6257	1	Cover - Switch
			12 VDC A14				Mounting Hole
7			Board - Engine Monitor	19	193-0388	1	Sender, Oil Temperature
			12 VDC A11	20	193-0352	1	Gauge, Pressure - Oil M11
	300-2807	1	2 Light	21	193-0351	1	Gauge, Temperature - Water
	300-2809	1	7 Light				M12
	300-2811	Ĩ	12 Light	22			Meter
	321-0270	2	Fuse, Cartridge -		302-1790	1	Ampere - DC M13
			20 Amp F1, F2		302-1723	2	Ampere - Begin Spec R
	321-0231	1	Fuse, Cartridge -		302-1641	1	Volt - M13 (8-18V) (Spec S)
			15 Amp F3	23	302-0885	1	Meter, Totalizing - Time M14
	321-0094	2	Fuse, Cartridge -	24	193-0435	1	Gauge, Temperature - Oil M15
			5 Amp F4, F5	25	302-1873-01	1	Tachometer, M16
8	301-8851	1	Bracket, Mounting	26	517-0221	1	Plug, Button
_	821-0004	4	Screw, Self-locking - Hex		332-0052	ī	Clamp, Loop
		•	Washer Head (#10-32 x		870-0131	1	Nut, Self-locking - Hex
			5/16")				with ET Lock Washer
9			Module, Indicator - Fault				(#10-32)
-			12 VDC A12	28			Door, Control
	322-0358-01	1	2 Light		301-9055-01	1	With 5 Gauge Holes
	322-0359-01	1	7 Light (Spec S)		301-9055-02	1	With 3 Gauge Holes
	322-0360-01	ī	12 Light	29			Harness, Wiring
	815-0385	2	Screw, Machine -				DC Door Assembly to Engine
		-	Round Head, Black				Monitor Board
			(#6-32 x 1/2")		338-1817	1	Spec P-R
	870-0183	2	Nut, Self-locking - Hex		338-2277	1	Begin Spec S
	_,	_	with ET Lock Washer				Alarm Relay
			(#6-32)		338-1835	1	8 Wire
10	322-0369-01	1	Lamp, Incandescent -		338-1836	ī	5 Wire
~ ~		•	1/3 Watt, 14 VDC	30		ī	Switch, Emergency Stop -
			2, 2 11364, 21 122			-	Begin Spec R





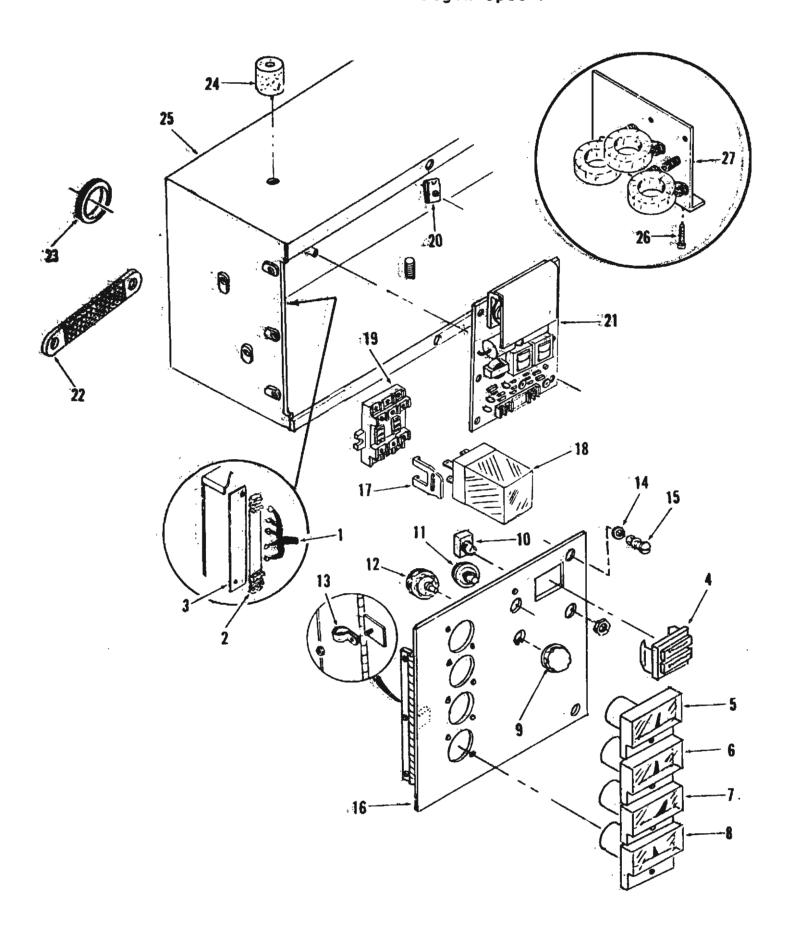


Engine Control - Spec C Through N

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.		QTY USED	PART DESCRIPTION
k.	322 0004		Lamp = 12 VDC DS11	19				switch, loggle - Selector 512
5	322-0149	ī	Light. Panel		308-0138			Standard
3	307 1157	Ą	Spring Relay		308-0327		1	Penn State
4	307-1058	ī	Relay - Ignition K12	20	333-0194		Ĺ	Flasher - 12 VDC 513
3	307-1058	Ţ	Relay - Start Disconnect KII		813-0105		1	Screw, Machine - Round head
6	307 1058	Ĭ.	Relay - Run Alarm K15					(#10-32 x 1")
1	307: 1061	1	kelay - Start Protection K14	21	301-6053		i	Bracket. Mounting
8	518 0374	ì	Fastener, Snap-In		308~0002		1	Switch, Toggle - SPST 511
9			Boaro, Control - Cranker 12 VDG A12	23	815-0026		õ	Screw, Machine - Truss dead (#10-32 x 3/8")
	300-0733	ī	Standard	24	\$70-0053		i	Nut, Hex (#10-32)
	300 0714	ì	Cycle	25	850-0 030		î	Washer, Lock - Spring (#10)
70			Board, Monitor - Engine	26			1	Washer, Lock - ET (#10)
		_	12 VDC A11	27	301-325 3		1	Bracket, Mounting
	300-0679	l	Standard (1 Light)	28				#Panel. Control
	300-0730	<u>1</u>	Penn State (1 Light)					(Selection Required Compact
	300-0681	1	Standard (5 Light)				_	Onan Distributor)
1.2	032 1276	2	Plug, Keving	29			1	Capacitor
1.2			Terminal		812-0061		1	Screw, Machine - Round mead
	202 2012		(Includes Parts Marked A)		050 0000			(#6-32 x 3/8")
	871 0010	2	*Nut, Hex - Brass (#10-32)		853-0003		1	Washer, Lock - ET (#6)
	850-0030	1	*Washer, Lock - Spring (#10)	5.0	860-0006		ì	Nut, Hex (#6-32)
	526 0062	2	*Washer, Flat (#10)	30	356-0070		1	Clamp, Capacitor
	853-0008	1	*Washer, Lock - ET (#10)		812~0063		2	Screw, Machine - Round meac
	856 0003	<u>1</u> 1	*Washer, Lock - EIT (#10)		952 0002		2	(#6-32 x 1/2")
	815-0203	L	*Screw, Machine - Round	22	853-0003		2 1	Washer, Lock - 27 (#6)
13			Head, Brass (#10-32 x 7/8")		870-0053 850-0030		ī	Nut, Hex (#10-32) Washer, Lock - Spring (#10)
13			Gauge, Pressure - Oit 12 VDC M11	33	332-0051		1	Clamp, Loop
	193 -0243	1	Begin 1977	34	225 0021		•	*Harness. Wiring
	193-0107	i	Through 1976	34				(Selection Required.
14	193 0101	1	Gauge, Temperature - Water					Contact Onan Distributor)
1.4			12 VDC M12	35	332-1043		1	Jumper, Jerminal
	193-0245	ì	Begin 1977	36	002. 10-70		•	Block, Terminal TB11
	193-0106	i	Through 1976	50	332 1005		1	20 Place
15	302-1362	1	Meter. Ampere M13		332 0795		1	16 Place
6		-	Gauge, Temperature - Oil	37	222 2.03	*	_	Strip, Marker
			12 VDC M14		332-1559		ì	20 Place
	193-0248	1	Begin 1977		332-1271		1	16 Place
	193-0187	ī	Through 1976	38			1	Block, Terminal - 4 Place 78.
17	302-0749	ī	Meter, Tach M14	39			1	Strip, Marker - 4 Place
18		_	Light, Indicator - 14 VOC	40			ì	Block, Terminal - 6 Prace
	322 - 0107	1	Red - OVERCRANK DS12	41	332-1240		1	Strip, Marker - 6 Piace
	322-0108	-	Red - LO OIL PRESS DS14	42			3	Socket, Relay (Less Terminals)
	322-0109	ī	Red - HI ENG TEMP DS15		332-1280		11	Terminal
	322-0110	ī	Red - LO ENG TEMP DS16	43	323-0764		1	Socket, Relay (Less Terminals)
	322-0111	ī	Red - OVERSPEED DS13		332-1280		8	Terminal
	322-0128	1	Red - FAULT DS12		815 0392		i	Piug, Keying
	322-0283	1	Red - SWITCH OFF DS17	44	332-1271		1	Housing, Terminal
	322-0136	1	Red - Blank (No Legend)		332-1269	2	22	Terminai



Generator Control - Begin Spec P



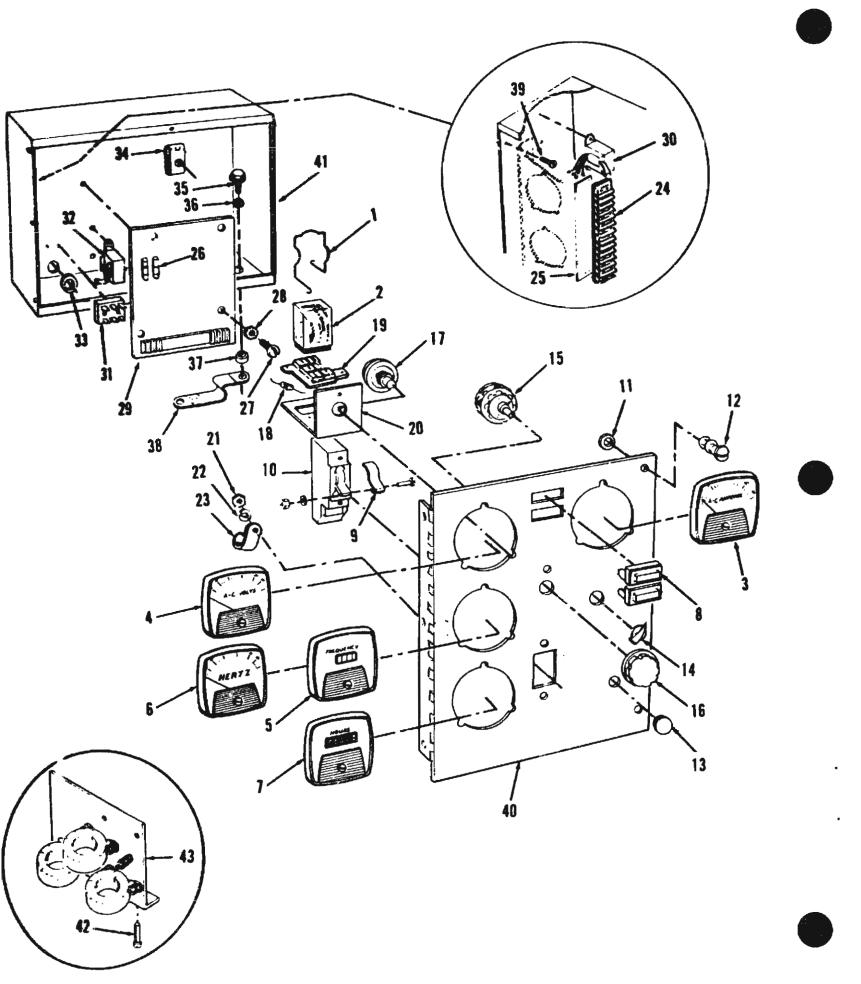


Generator Control - Begin Spec P

REF	PART NO.	OTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring -	i5	406-0333	2	Stud - Fastener
			(Includes Terminal Block)	16			Door, Control
	338 1818	1	Control with Meters		301-9054-01	1	With 4 Meter Holes
	338 2278	1	Control with Meters - Begin		301-9054-02	1	With 3 Meter Holes
			(Spec S)		301-9054-03	1	With No Meter Holes
	338 - 1853	1	Control without Meters		821 -0004	3	Screw, Self-locking - Hex
	812-0065	2	Screw, Machine - Round				Washer Head (#10-32 x 5/16")
			Head (#6-32 x 5/8")	17	307-1987	2	Clip - Relav
2	302 0 607	1	Block, Terminal TB1	18	307-1058	1	Relav - 12 VDC K21
3	332 -2723	ī	Strip, Marker	19	323-0804	1	Socket, Relay
4	322 0363	1	Light, Indicator -		815-0544	2	Screw. Machine - Round Head
			Oual DS21. DS22				IT Lockwishr (#6-32 x 1/2")
5	302-1148	1	Meter, Volt M21	20	406-0332	2	Receptacle. Fastener
6			Meter, Ampere M22	21			Regulator, Voltage VR21
	302-1147	1	0-75/150 Amp - Begin Spec S		300-2880	1	Betore Spec S
			- EK		815-0544	6	Screw, Machine - Round Head
	302-1683	l	0-100/200 Amp - Beain				IT Lockwshr (#6-32 x 1/2")
			Spec S - EM	22	337-0049	1	Strap, Electrical
	302-1684	i	0~150/300 Amp		800-0024	1	Screw, Cap - Hex Head
	302-1685	i	0-200/400 Amp				$(5/16-18 \times 1/2")$
	302-1724	1	0-250/500 Amp		856-0008	1	Washer, Lock - EIT (5/16")
	302-1725	ì	0-375/750 Amp		508-0051	1	Grommet
	302-1 726	1	0-400/800 Amp	24	402-0527	2	Mount, Vibration
	302-1727	1	0-500/1000 Amp		800-0045	4	Screw, Cap - Hex Head
7	302-1 720	ì	Meter, Frequency M23				(5/16~18 x 3/8")
8		1	Meter, Watt M24 (See		850-0045	4	Washer, Lock - Spring (5/16")
			Separate page for Components)	25		1	Box. Control
9	303-0032	1	Knop	26	821-0010	2	Screw, Self-locking - Hex
10	320-1121	1	Breaker, Circuit CB21				Washer Head (1/4-20 x 1/2')
lî	303-0261	1	Rheostat R21	27		1	Current Transformer
12			Switch, Rotary S21				(See Separate Page for
	308-0284	ì	Begin Spec P				Components)
	308-0882	ì	Begin Spec S	28	319-0447	1	Bracket, Relay Mounting
13	332-0052	1	Clamp, Loop				Begin Spec R
	870-0131	1	Nut, Self-locking - Hex with ET Lock Washer (#10-32)	29	815-0388	2	Screw. Pan Head x Rec (#6-32 x 1/2")
14	4060334	2	Clip - Fastener				



Generator Control - Spec C Through N

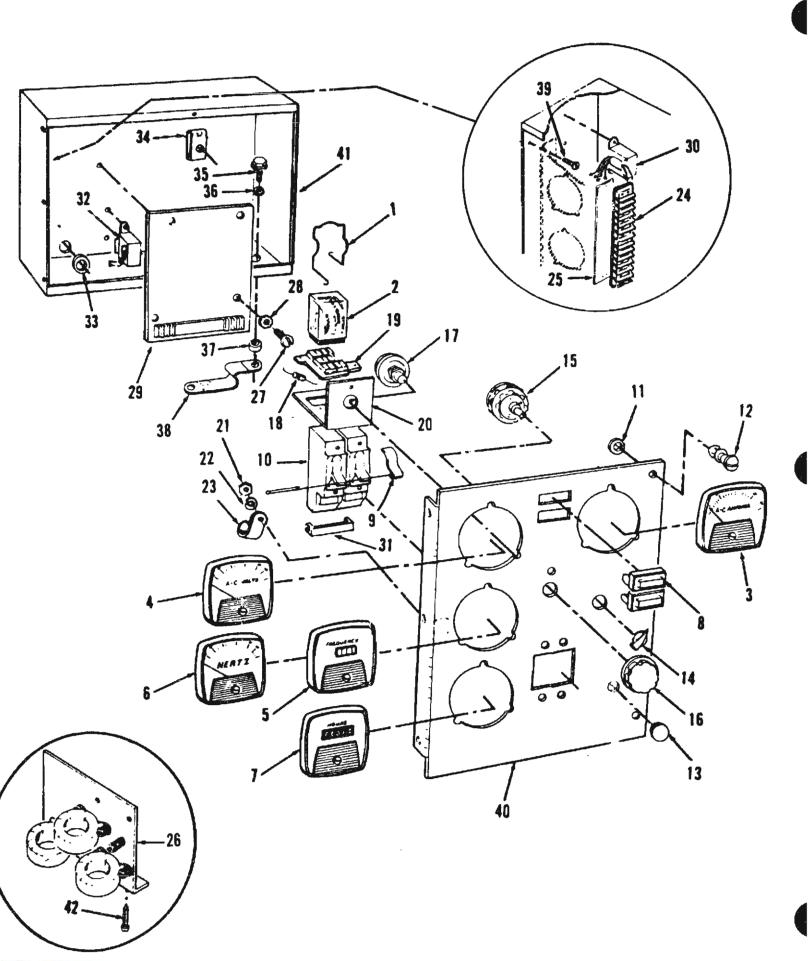


Generator Control - Spec C Through N

2 307-1061 1 Relay K21	REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY	PART DESCRIPTION
2 307-1061 1 Relay K21	1	307-1157	1	Spring - Relay	19	323-0765	1	Socket, Relay (Less Terminals)
302-0405 1 0-50 Amp 860-0005 2 Nut. Hex (#6-32 X 3/8") 302-0406 1 0-100 Amp 20 332-1280 11 302-0410 1 0-150 Amp 20 301-3244 1 Bracket. Mounting 302-0411 1 0-200 Amp 21 870-0053 1 Nut. Hex (*10-32) 302-0412 1 0-250 Amp 22 850-0030 1 Nut. Hex (*10-32) 302-0412 1 0-200 Amp 23 332-0601 1 Clamp, Loop Block, Terrainal TB21 302-0413 1 0-300 Amp 23 332-0601 1 Reference to the state of th		307-1061	1			812-0061	2	Screw, Machine - Round Head
302-0406 1 0-100 Amp 332-1280 11 Terminal 302-0410 1 0-150 Amp 20 301-3244 1 302-0411 1 0-150 Amp 21 870-0053 1 Nut. Hex (#10-32) 302-0411 1 0-200 Amp 21 870-0053 1 Nut. Hex (#10-32) 302-0412 1 0-200 Amp 21 870-0053 1 Nut. Hex (#10-32) 302-0412 1 0-200 Amp 21 870-0053 1 Nut. Hex (#10-32) 302-0413 1 0-200 Amp 23 332-0607 1 Claps Loop 302-04013 1 0-200 Amp 23 332-0607 1 Claps Loop 302-04013 1 0-300 Amp 23 332-0607 1 Claps Loop 302-04013 1 0-300 Amp 23 32-0607 1 Claps Loop 302-04013 1 0-100. 0-300 Amp 32-04013 1 0-100. 0-300 Amp 32-04013 1 0-150. 0-300 Amp 32-04013 1 0-150. 0-300 Amp 32-04013 1 0-150. 0-300 Amp 853-0003 2 Masher Lock ET (#6) 302-0412 1 0-150. 0-300 Amp 853-0003 2 Masher Lock ET (#6) 302-0412 1 0-375. 0-750 Amp 850-0002 2 Masher Lock ET (#6) 302-0412 1 0-500 VAC 332-1248 1 10-300 VAC 332-1248 1 10-300 VAC 332-0412 1 0-500 VAC 332-1248 1 10-500 VAC 332-0412 1 0-500 VAC 26 312-0204 2 Fuse, Cartridge - 1/4 Am 302-0418 1 15 VAC. 60 Hertz 320-0234 1 115 VAC. 60 Hertz 332-1268 1 332-1268 1 332-0268 1 230 VAC. 60 Hertz 332-1268 1 332-0268 1 230 VAC. 60 Hertz 332-0301 1 Refer Lock ET (#6) Neter, Frequency - Pointer M23 VAC. 60 Hertz 332-0302 1 1 So Hertz 332-0303 1 Nut. Hex (#10-32 x 7/8") Nut. Hex (#10-32 x 3/8") Nut. He	3	302-0405	1			853-0003	2	
302-0406 1								
302-0412 1 0-250 Amp 22 850-0030 1 Nut, Hex (\$10-32) 302-0413 1 0-300 Amp 23 332-0551 1 Nut, Dept. Lock - Spring (\$1 302-0413 1 0-300 Amp 24 332-0551 1 Nut, Dept. Lock - Spring (\$1 202-0413 1 0-300 Amp 24 332-0551 1 Nut, Dept. Lock - Spring (\$1 202-0413 1 0-100, 0-200 Amp 332-0551 1 Nut, Dept. Lock - Spring (\$1 202-040 Amp 302-0721 1 0-150, 0-300 Amp 320-0721 1 0-150, 0-300 Amp 812-0066 2 Screw, Machine - Round Head (\$10-32 x 7/8") Nut, Dept. Lock - Spring (\$1 202-040 Amp 302-0723 1 0-250, 0-500 Amp 850-0020 2 Nut Principle (\$1 202-040 Amp 302-0724 1 0-3075, 0-750 Amp 850-0020 2 Nut Principle (\$1 202-040 Amp 302-0724 1 0-300 Amp 850-0020 2 Nut Principle (\$1 202-040 Amp 302-0724 1 0-500 VAC 332-1248 1 12 Place Screw, Machine - Round Head \$1 202-040 Amp 302-0213 1 Nut, Hex (\$1 0-301 Amp 302-0458 1 203 VAC, 60 Hertz 302-0651 1 2040 VAC, 60 Hertz 302-			1	•				
302-0412 1 0-250 Amp 23 332-0051 Clapp Loop Block, Terminal TB21 1			-					
302-0413 1			_	· · ·			_	
302-0605 1			_				_	
302-0719			_			332 0031	•	
302-0722			ī			332-0607	1	
302-0723			-			_		
302-0723 1			-			812-0066	2	Screw, Machine - Round Head
302-0724			_			952-0002	•	
Meter								
302-0422	4	002 0124	•		25	000 0020	•	
302-0612 1		302-0421	1			332-1242	1	
302-0718 1			_				-	
302-0718 1				· · · · · · · · · · · · · · · · · · ·				
Meter, Frequency - Reed 28 853-0003 4 Washer, Lock - ET (#6) Regulator, Voltage VR21 302-0221 1 115 VAC, 60 Hertz 332-1268 1 Spec C Only Spec C Only 302-0234 1 115 VAC, 50 Hertz 332-1268 1 Spec C Only Spec C Only Spec C Only 302-0256 1 230 VAC, 50 Hertz 332-1956 1 Begin Spec J (Requires Regulator, Voltage VR21 120 VAC 110 VAC, 50 Hertz 332-1956 1 Begin Spec J (Requires A00 VAC Regulator, Voltage T2:					21	812-0065	4	
M23	5	302-0110	1		28	853~0003	4	
302-0234 1 230 VAC, 50 Hertz 332-1268 1 Spec D through K (Requires 302-0256 1 230 VAC, 50 Hertz 332-1956 1 Begin Spec J (Requires 240 VAC Input Signal)	·						•	
302-0234 1 115 VAC, 50 Hertz 302-0256 1 230 VAC, 50 Hertz 332-1956 1 Begin Spec J (Requires 240 VAC Input Signal)		302-0213	1			332-1264	1	
302-0256 1						332-1268	1	
Meter, Frequency - Pointer M23 30 Transformer, Voltage T21 302-0809 1 120 VAC, 60 Hertz 315-0431 1 240 VAC 302-0810 1 240 VAC, 60 Hertz 315-0431 1 240 VAC 302-0811 1 240 VAC, 60 Hertz 812-0061 2 50 crew, Machine - Round Head (\$6-32 x 3/8") Meter, Totalizing - Time M24 Meter, Totalizing - Ti			_			222_1056	,	
M23 302-0809 1 120 VAC, 60 Hertz 315-0342 1 120 VAC 302-0810 1 208 VAC, 60 Hertz 315-0431 1 240 VAC 302-0811 1 240 VAC, 60 Hertz 315-0431 1 240 VAC 302-0811 1 240 VAC, 60 Hertz 812-0061 2 Screw, Machine - Round Head (\$6-32 x 3/8") 302-0466 1 60 Hertz 31 305-0675 1 Rectifier, Bridge CR21 812-0070 2 Screw, Machine - Round Head (\$6-32 x 3/8") 302-0469 1 50 Hertz 31 305-0675 1 Rectifier, Bridge CR21 Screw, Machine - Round Head (\$6-32 x 1-1/4") Masher, Lock - ET (\$6) 322-0130 1 Red - UPPER SCALE DS21 Screw, Machine - Round Head (\$6-32 x 1-1/4") Masher, Lock - Spring 322-0131 1 Red - Blank (Mo Legend) 32 315-0364 1 Reactor L21 9 320-0307 1 Lock, Handle 812-0061 2 Screw, Machine - Round Rector L21	6	302-0256	ı			335-1920	1	
302-0809 1 20 VAC, 60 Hertz 315-0332 1 240 VAC 302-0810 1 208 VAC, 60 Hertz 315-0431 1 240 VAC 302-0811 1 240 VAC 60 Hertz 812-0061 2 Screw, Machine - Round Head (\$6-32 x 3/8") Washer, lock - ET (\$6) 802-0469 1 50 Hertz 31 305-0675 1 Rectifier, Bridge CR21 Screw, Machine - Round Head (\$6-32 x 1-1/4") Washer, lock - ET (\$6) 812-0070 2 Screw, Machine - Round Head (\$6-32 x 1-1/4") Washer, Lock - Spring (\$6-32 x 3/8") Washer, Lock - Spring (\$6-32 x 3/8") Washer, Lock - ET (\$6) 853-003 1 Red - U0MER SCALE DS22 850-0020 2 Washer, Lock - Spring (\$6-32 x 3/8") Washer, Lock - ET (\$6) 853-003 1 Screw, Machine - Round Read (\$6-32 x 1-1/4") Washer, Lock - ET (\$6) 853-001 1 Washer, Lock - ET (\$10) 33 508-0001 1 Growmet Screw, Machine - Round (\$6-32 x 3/8") Washer, Lock - ET (\$6) 320-0431 1 2 Amp 320-0439 1 2 Amp with AUX Contacts 36 850-0045 4 Masher, Lock - Spring (\$6) 812-0061 2 Screw, Machine - Round Read (\$6-32 x 3/8") Washer, Lock - Spring (\$6) 303-0076 1 Knob, Pointer 12 406-0333 2 Stud - Fastener 40 Strap, Electrical - Grown 12 406-0333 2 Stud - Fastener 40 Strap, Electrical - Grown 13 303-0076 1 Knob, Pointer 15 308-0032 1 Knob 42 821-0010 2 Screw, Machine - Truss He (\$10-32 x 3/8") Screw, Self-locking - He (\$10-32 x 3/8") Screw, Self-locking - He (\$10-32 x 3/8") Screw, Machine - Truss He (\$10-32 x 3/8") Screw, Self-locking - He (\$10-32 x 3/8") Sc	•				30			
302-0811 1		302-0809	1			315-0342	1	
Meter, Totalizing								
302-0466 1 50 Hertz 31 305-0675 2 Masher, lock - ET (#6) 302-0469 1 50 Hertz 31 305-0675 1 Rectifier, Bridge CR21 Eight, Indicator - 125 VAC 812-0070 2 Screw, Machine - Round Head (#6-32 x 1-1/4") 322-0131 1 Red - LOMER SCALE DS22 850-0020 2 Washer, Lock - Spring (#8-32 x 1-1/4") 322-0138 1 Red - Blank (%0 Legend) 32 315-0384 1 Reactifier, Bridge CR21 Reactor L21 322-0138 1 Red - Blank (%0 Legend) 32 315-0384 1 Reactor L21 Screw, Machine - Round Reactor L21 Reactor L22 Reactor L21 Reactor L21 Reactor L21 Reactor L21 Reactor L22 Reactor L21 Reactor L21 Reactor L22 Reactor L21 Reactor L21 Reactor L21 Reactor L22 Reactor L21 Reactor L22 Reactor L21 Reactor L21 Reactor L22 Reactor L21 Reactor L21 Reactor L22 Reactor L21 Reactor L2	_	302-0811	1			812-0061	2	
302-0469 1 50 Hertz 131 305-0675 1 Rectifier, Bridge CR21 132-0130 1 Red - UPPER SCALE DS21 1 Red - LOWER SCALE DS22 850-0020 2 Washer, Lock - Spring 322-0131 1 Red - Blank (Mo Legend) 32 315-0384 1 Reactor L21 812-0061 2 Screw, Machine - Round Reactor L21 815-0203 1 Screw, Machine - Round Head (\$\frac{x}{2} \times	7	202-0466	•			952_0003	2	
Light, Indicator - 125 VAC 812-0070 2 Screw, Machine - Round					31			
Red - UPPER SCALE DS21 Head (#6-32 x 1-1/4") 322-0131 Red - LOMER SCALE DS22 850-0020 2 Washer, Lock - Spring 9 320-0307 Lock, Handle 812-0061 Screw, Machine - Round Head (#6-32 x 3/8") Washer, Lock - ET (#6) S71-0010 Lock, Hex (#10-32) 34 406-0332 Receptable, Fastener S12-0061 Screw, Machine - Round Head (#6-32 x 3/8") S12-0010 Receptable, Fastener S12-0061 Screw, Machine - Round Head (#6-32 x 3/8") S12-0010 Receptable, Fastener S13-0003 Receptable, Fastener S13-0003 Receptable, Fastener S14-0061 Receptable, Fastener Receptable, Fastener S14-0061 Receptable, Fastener Receptable, Fastener S14-0061 Receptable, Fastener Receptable, Fastener Receptable, Fastener S14-0061 Receptable, Fastener	8	002 0405	•		••			Screw, Machine - Round
Red - Blank (No Legend) 32 315-0384 1 Reactor L21		322-0130	1	Red - UPPER SCALE DS21				
9 320-0307			_					Washer, Lock - Spring (#6)
Screw, Machine - Round Head (#10-32 x 7/8") S53-0003 Washer, Lock - ET (#6)	•		_		32		_	
(\$10-32 x 7/8") 853-0003 2 Washer, Lock - ET (\$6) 854-0010 1 Washer, Lock - ET (\$10) 33 508-0001 1 Grommet 871-0010 1 Nut, Hex (\$10-32) 34 406-0332 2 Receptacle, Fastener 10 1 Breaker, Circuit (C821) 35 800-0045 4 Screw, Cap - Hex Head 12 2 Amp 2 2 36 850-0045 4 Washer, Lock - Spring (\$6, 16-18 x 3/8") 812-0061 2 3 3 36 850-0045 4 Washer, Lock - Spring (\$6, 16-18 x 3/8") 812-0061 2 3 3 30-0045 4 Washer, Lock - Spring (\$6, 16-18 x 3/8") 812-0061 2 3 3 30-0045 4 Washer, Lock - Spring (\$6, 16-18 x 3/8") 812-0061 2 3 3 337-0045 4 30-0049 1 30-0049 1 30-0049 1 30-0049 1 30-0049 1 30-0049 3 30-0049 3 30-0049 3 30-0049 3 30-0049 3 30-0049 3 30-0049 30-0049 30-0049 <	9			·		812-0061	2	
854-0010 1 Washer, Lock - ÉT (\$10) 33 508-0001 1 Grommet 871-0010 1 Nut, Hex (\$10-32) 34 406-0332 2 Receptacle, Fastener 10 1 Breaker, Circuit (C821) 35 800-0045 4 Screw, Cap - Hex Head 320-0431 1 2 Amp 320-0439 1 2 Amp with AUX Contacts 36 850-0045 4 Washer, Lock - Spring (5, 812-0061 2 Screw, Machine - Round Head 37 402-0078 4 Dampener, Vibration (\$6-32 x 3/8") 38 337-0049 1 Strap, Electrical - Ground Reduction (\$6-32 x 3/8") 38 337-0049 1 Strap, Electrical - Ground Reduction (\$6-32 x 3/8") 38 815-0026 3 Screw, Machine - Truss Head (\$10-32 x 3/8") 11 406-0334 2 Clip - Fastener 12 406-0333 2 Stud - Fastener 13 517-0131 1 Plug, Plastic 14 303-0076 1 Knob, Pointer 15 308-0284 1 Switch, Selector S21 41 301-3158 1 Box, Control 16 303-0032 1 Knob 42 821-0010 2 Screw, Self-locking - Hex Washer Head (1/4-20 x 1/1) 17 303-0170 1 Rheostat R21 18 350-0556 1 Resistor R22 43 Current Transformer (See Separate Page for		013 0203	•			853-0003	2	
10		854-0010	1		33		1	Grommet
320-0431 1 2 Amp 320-0439 1 2 Amp with AUX Contacts 36 850-0045 4 Washer, Lock - Spring (5/812-0061 2 Screw, Machine - Round Head 37 402-0078 4 Dampener, Vibration (#6-32 x 3/8") 38 337-0049 1 Strap, Electrical - Ground Head 37 402-0078 4 Dampener, Vibration (#6-32 x 3/8") 38 337-0049 1 Strap, Electrical - Ground Head 37 406-0334 2 Clip - Fastener 40 Fastener (#10-32 x 3/8") Fanel, Control (\$13 517-0131 1 Plug, Plastic 1 Fastener 40 Fastener (Selection Required, Contact Onan Distributor IS 308-0284 1 Switch, Selector S21 41 301-3158 1 Box, Control 1 Screw, Self-locking - Head (1/4-20 x 1/18 350-0556 1 Resistor R22 43 Current Transformer (See Separate Page for		871-0010	-		_		_	
320-0439 1 2 Amp with AUX Contacts 36 850-0045 4 Washer, Lock - Spring (5) 812-0061 2 Screw, Machine - Round Head 37 402-0078 4 Dampener, Vibration (#6-32 x 3/8") 38 337-0049 1 Strap, Electrical - Ground Head 37 406-0334 2 Clip - Fastener (#10-32 x 3/8") 12 406-0333 2 Stud - Fastener 40 Panel, Control (Selection Required, Contact Onan Distributor 13 517-0131 1 Plug, Plastic Contact Onan Distributor 15 308-0284 1 Switch, Selector S21 41 301-3158 1 Box, Control 16 303-0032 1 Knob 42 821-0010 2 Screw, Self-locking - Head 1/4-20 x 1/18 350-0556 1 Resistor R22 43 Current Transformer (See Separate Page for	10	000 0101	-		35	800-0045	4	
812-0061 2 Screw, Machine - Round Head 37 402-0078 4 Dampener, Vibration (#6-32 x 3/8") 38 337-0049 1 Strap, Electrical - Ground 850-0020 2 Washer, Lock - Spring (#6) 39 815-0026 3 Screw, Machine - Truss Head 11 406-0334 2 Clip - Fastener 12 406-0333 2 Stud - Fastener 13 517-0131 1 Plug, Plastic 14 303-0076 1 Knob, Pointer 15 308-0284 1 Switch, Selector S21 41 301-3158 1 Box, Control 16 303-0032 1 Knob 42 821-0010 2 Screw, Self-locking - Head 17 303-0170 1 Rheostat R21 18 350-0556 1 Resistor R22 43 Current Transformer (See Separate Page for			-		36	850-0045	A	
(#6-32 x 3/8") 38 337-0049 1 Strap, Electrical - Ground Strap, Elect			_					
850-0020 2 Washer, Lock - Spring (#6) 39 815-0026 3 Screw, Machine - Truss He (#10-334 2 Clip - Fastener (#10-32 x 3/8") 12 406-0333 2 Stud - Fastener 40 Panel, Control (Selection Required, Contact Onan Distributor 15 308-0284 1 Switch, Selector S21 41 301-3158 1 Box, Control 16 303-0032 1 Knob 42 821-0010 2 Screw, Self-locking - He Washer Head (1/4-20 x 1/18 350-0556 1 Resistor R22 43 Current Transformer (See Separate Page for		011 0001	~					Strap, Electrical - Ground
12 406-0333 2 Stud - Fastener 40 Panel, Control 13 517-0131 1 Plug, Plastic (Selection Required, Contact Onan Distributor 14 303-0076 1 Knob, Pointer 2 Screw, Control 15 308-0284 1 Switch, Selector S21 41 301-3158 1 Box, Control 16 303-0032 1 Knob 42 821-0010 2 Screw, Self-locking - Hex 17 303-0170 1 Rheostat R21 Washer Head (1/4-20 x 1/2) 18 350-0556 1 Resistor R22 43 Current Transformer (See Separate Page for			2		39	815-0026	3	Screw, Machine - Truss Head
13 517-0131 1 Plug, Plastic (Selection Required, Contact Onan Distributor 15 308-0284 1 Switch, Selector S21 41 301-3158 1 Box, Control 16 303-0032 1 Knob 42 821-0010 2 Screw, Self-locking - Hex Washer Head (1/4-20 x 1/18 350-0556 1 Resistor R22 43 Current Transformer (See Separate Page for								
14 303-0076 1 Knob, Pointer Contact Onan Distributor 15 308-0284 1 Switch, Selector S21 41 301-3158 1 Box, Control 16 303-0032 1 Knob 42 821-0010 2 Screw, Self-locking - Hex 17 303-0170 1 Rheostat R21 Washer Head (1/4-20 x 1/2) 18 350-0556 1 Resistor R22 43 Current Transformer (See Separate Page for					40			
15 308-0284								
16 303-0032 1 Knob 42 821-0010 2 Screw, Self-locking - Her 17 303-0170 1 Rheostat R21 Washer Head (1/4-20 x 1/20 x	_				41	301-3158	1	_
18 350-0556 1 Resistor R22 43 Current Transformer (See Separate Page for			_		_			Screw, Self-locking - Hex
(See Separate Page for			_					Washer Head (1/4-20 x 1/2")
Components)	18	350-0556	1	Resistor R22	43			



Generator Control - Switching Regulator

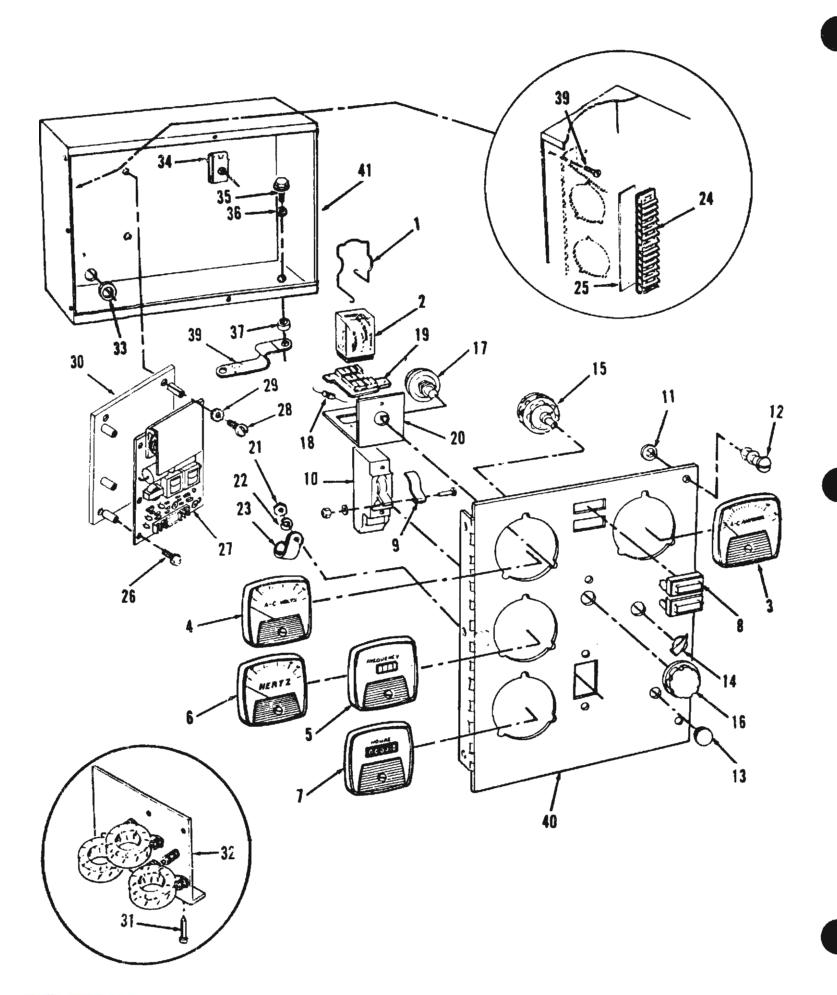


Generator Control - Switching Regulator

REF	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	OTY USED	PART DESCRIPTION
	307 1157	;	Soring - Relay	18	330-0556	1	Resistor R22
2	307 1061	1	Relav K21	19	323 0765	1	Socket, Relay (Less Terminals)
3			Meter. Ampere M21		312-0061	2	Screw, Machine - Round Head
	302 -0405	Ţ	0 50 Amp		050 0000		(#6·32 × 3/8")
	302 0406	i	0 75 Amb		853-0003	2	Washer, Lock - ET (#6)
	302 0408	Ĩ.	0-100 Amo		860-0005	2	Nut Hex (#6-32)
	302-0410	•	0-150 Amo ⊍-200 Amo	20	332-1280 301-3244	li i	Terminal Bracket, Mounting
	302-0411 302-0412	;	0-250 Amb		870-0053	1	Nut, Hex (#10-32)
	302-0413	ì	0-300 Amp		850-0030	ì	Washer, Lock - Spring (#10)
	302-0605	1	0-400 Amp	23	332-0051	1	Clamp, Loop
	302-0719	î	0-75. 0-150 Amp	24	002 0001	•	Block, Terminal TB21
	302-0720	•	0100 , 0-200 Amp	~ `	332-0607	1	12 Place
	302 072	ī	0-150, 0-300 Amp		332-0795	ī	16 Piace
	302-0722	ī	0-200 . 0-400 Amp		812-0066	2	Screw, Machine - Round Head
	302-0723	ī	0-250, 0-500 Amp				$(#6-32 \times 3/4")$
	302-0724	1	0-375, 0-750 Amp		853-0003	2	Washer, Lock - 67 (#6)
4			Meter, Volt M22		850-0020	2	Washer, Lock - Spring (#6)
	302-0421	1	0-300 VAC	25			Strip, Marker
	307 -0422	1	0-600 VAC		332-1242	1	16 Place
	302-0612	1	0-500 VAC		332~1248	1	12 Piace
	302-0779	<u>i</u>	0-750 VAC	26		ì	Current Transformer
	302 0718	1	0-300, 0-600 VAC				(See Separate Page for
5			Meter, Frequency - Reed		010 0005	_	Components)
			M23	27	812-0065	4	Screw, Machine Round Head
	302-0213	1	115 VAC, 60 Hertz	20	060 0000	4	(#6-32 x 5/8")
	302-0221	1	230 VAC. 60 Hertz	28	8530003	4	Washer, Łock – ET (#6) Regulator, Voltage VR2I
	302 -0234	1 1	115 VAC, 50 Hertz	29	300-2971	1	Semi-Frequency Sensitive
6	302 0256	1	230 VAC. 50 Hertz Meter. Frequency - Pointer		300-2971	1	Voltage Sensitive
U			· · · · · ·		300 2971	i	Frequency Sensitive
	302 -0809	1	120 VAC, 60 Hertz	30	315-0431	î	Transformer, Voltage - 240 VAC
	302-0810	ī	208 VAC. 60 Hertz		010 0.01	-	T21
	302 -0811	ī	240 VAC. 60 Hertz		812-0061	2	Screw, Machine - Round Head
7		-	Meter, Totalizing - Time M24				(#6· 32 × 3/8")
	302 -0466	i	60 Hertz		853-0003	2	Washer, lock - ET (#6)
	302-0469	1	50 Hortz	31	320-0202	1	Bar, Locking
8			Light, Indicator ~ 125 VAC	32	315-0384	2	Reactor L21, L22
	322-0130	1	Red - UPPER SCALE DS21		812-0061	4	Screw, Machine - Round Head
	322-0131	1	Red - LOWER SCALE DS22			_	(#6-32 x 3/8")
	322-0178	1	Red - Blank (No Legend)		853-0003	4	Washer, Lock - ET (#6)
9	320-0307	1	Lock, Handle		508-0001	1	Grommet
	815-0203	1	Screw, Machine - Round Head		406-0332	2	Receptacle, Fastener Screw, Cap - Hex Head
	254 2212	;	(#10-32 × 7/8")	35	800-004 5	4	(5/16-18 x 3/8")
	854-0010	1	Washer, Lock - ET (#10)	26	850-0045	4	Washer, Lock - Spring (5/16")
10	871-0010	1 2	Nut, Hex (#10~32)		402-0078	4	Dampener, Vibration
10	320-0455 812-0061	4	Breaker, Circuit CB21 Screw, Machine - Round Head		337-0049	ì	Strap, Electrical - Ground
	915-0001	4	(#6-32 x 3/8")		815-0026	3	Screw, Machine - Truss Head
	850-0020	4	Washer, Lock - Spring (#6)	33	015 0020	•	(#10-32 × 3/8")
11	406-0334	2	Clip - Fastener	40			Panel. Control
	406-0333	2	Stud - Fastener	-70			(Selection Required,
13		i	Plug, Plastic				Contact Onan Distributor)
14	303-0076	ī	Knob, Pointer	41	301-3158	1	Box, Control
15	308-0284	î	Switch, Selector S21		821-0010	2	Screw, Self-locking - Hex
16	303-0032	î	Knob	-	_		Washer Head (1/4-20 x 1/2")
17	303-0170	$ar{1}$	Rheostat R21				



Generator Control - Torque Matched Regulator



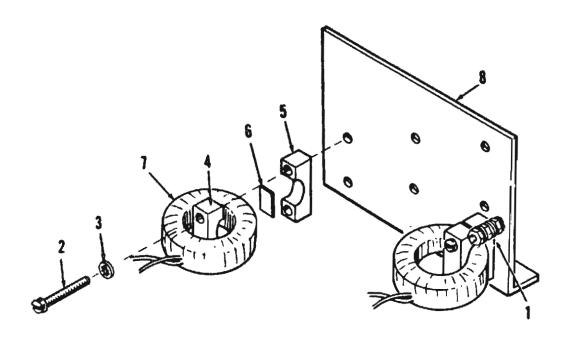


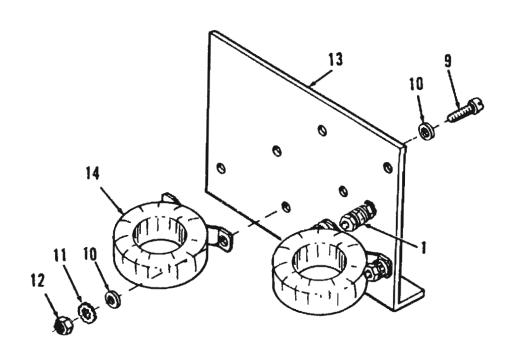
Generator Control - Torque Matched Regulator

REF	PART	YTQ	PART	REF	PART	QTY	PART
NO.	NO.	USED	DESCRIPTION	NO.	NO.	USED	DESCRIPTION
;	307 - 1157	1	Spring - Relav	16	303-0032	1	Knob
5	307-1061	ī	Relay K21	17	303-0261	î	Rheostat R21
3	001 1001	•	Meter, Ampere M21	18		ī	Resistor R22
•	302-0405	1	0 50 Amp	19		ī	Socket, Relay (Less
	302 0406	i	0-75 Amp	20	0.0 0.00	-	Terminais)
	302 0408	1	0-100 Amp		812-0061	2	Screw, Machine - Round
	302-0410	i	0-150 Amo		012 0001	_	Head (#6-32 x 3/8")
	302-0411	î	0-200 Amp		853-0003	2	Washer, Lock - ET (#6)
	302 0412		0-250 Amp		860-0005	2	Nut. Hex (#6-32)
	302-0413	ì	0-300 Amp		332-1280	iī	Termina)
	302-0605	ì	0-400 Amp	20	301-3244	ī	Bracket, Mounting
	302-0719	i	0-75. 0-150 Amp		870-0053	ĩ	Nut, Hex (#10-32)
	302-0720	ī	0-100, 0-200 Amp	22	850-0030	ī	Washer, Lock - Spring (#10)
	302-0721	ī	0-150, 0-300 Amp	23	332-0051	ī	Clamp, Loop
	302-0722	ì	0-200, 0-400 Amp	24	002 0001	-	Block, Terminai T821
	302-0723	1	0-250, 0-500 Amp	2.4	332-0607	1	12 Place
	302-0724	î	0-375. 0-750 Amp		332-0795	î	16 Place
4	00E 01E4	•	Meter. Volt M22		812-0066	2	Screw, Machine - Roung
•	302-0421	1	0-300 VAC		014 0000	_	Head $(#6-32 \times 3/4")$
	302 -0422	ī	0-600 VAC		853-0003	2	Washer, Lock - Ei (#6)
	302-0612	ì	0-500 VAC		850-0020	2	Washer, Lock - Spring (#6)
	302-0779	ī	0-750 VAC	25	000 3020	~	Strip, Marker
	302 0718	ī	0-300, 0-600 VAC	-	332-1242	1	16 Place
5		-	Meter, Frequency - Reed		332-1248	ī	12 Place
			M23	26	815~0544	6	Screw, Machine - Round Head
	302-0213	1	115 VAC, 60 Hertz			_	with IT Lock Washer
	302-0221	1	230 VAC, 60 Hertz				(#6-32 × 1/2")
	302-0234	1	115 VAC, 50 Hertz	27	300-2880	Ĺ	Regulator, Voltage VR21
	302-0256	ī	230 VAC, 50 Hertz	28	812-0065	4	Screw, Machine - Round
6			Meter, Frequency - Pointer	20	012 000	-	Head $(\#6-32 \times 5/8")$
			M23	29	853-0003	4	Washer, Lock - ET (#6)
	302-0809	1	120 VAC, 60 Hertz		301-9315	1	Bracket, Mounting
	302-0810	1	208 VAC, 60 Hertz	31		2	Screw, Self-locking - Hex
	302-0811	1	240 VAC, 60 Hertz				Washer Head (1/4-20 x 1/2")
7			Meter, Totalizing - Time M24	32			Current Transformer
	302-0466	1	60 Hertz				(See Separate Page for
	302-0469	1	50 Hertz				Components)
8			Light, Indicator - 125 VAC	33	5083001	1	Grommet
	322-0130	1	Red - UPPER SCALE DS21	34	406-0332	2	Receptacle, Fastener
	322 -0131	1	Red - LOWER SCALE DS22	35	800-0045	4	Screw. Cap - Hex Head
	322-0178	1	Red - Blank (No Legend)				(5/16-18 x 3/8")
9	320-0307	1	Lock, Handle	3 6	850~ 0045	4	Washer, Lock - Spring (5/16")
	815-0203	1	Screw, Machine - Round	37	402-0078	4	Dampener, Vibration
			Head (#10-32 \times 7/8")	38	3370049	1	Strap Electrical - Ground
	854-0 010	1	Washer, Lock - ET (#10)	39	815-0026	3	Screw. Machine - Truss Head
	871-0010	1	Nut, Hex (#10-32)				(#10-32 × 3/8")
10	320-0431	1	Breaker, Circuit CB21	40			Panel, Control
	812-0061	2	Screw, Machine - Round Head (#6-32 x 3/8")				(Selection Required, Contact Onan Distributor)
	850-0020	2	Washer, Lock - Spring (#6)	41	301-3158	1	Box. Control
	406-0334	2	Clip - Fastener				
	406-0333	2	Stud - Fastener				
13	517-0131	1	Plug, Plastic				
14	303-0076	1	Knob, Pointer				
15	308-0284	1	Switch, Selector S21				



Current Transformer





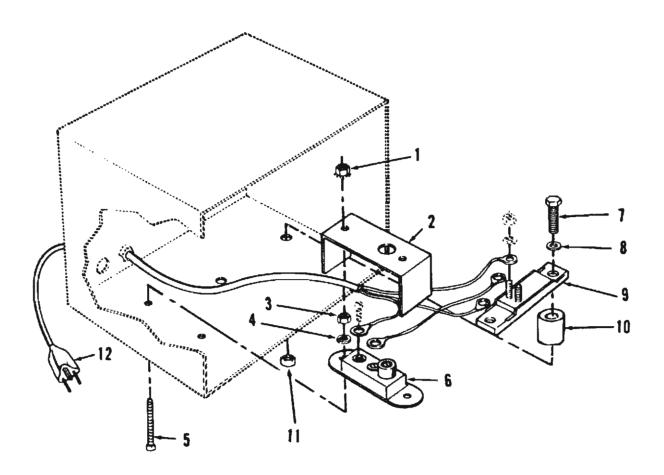


Current Transformer

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NG.	QTY USED	PART DESCRIPTION
:			Terminai	9	813-0100	6	Screw, Machine - Round Head
	815 0203	1	Screw, Machine - Round				(#10-32 x 1/2")
			rlead. Brass (#10-32 x	10	526-0008	6	Washer, Flat (#10)
			7/8")	11	856-00 03	6	Washer, Lock - EIT (#10)
	871-0010	3	Nut. Hex - Brass (#10-32)	12	870~0053	6	Nut. Hex (#10-32)
	856 0003	1	Washer, Lock - EIT (#10)	13	302-0764	ì	Bracket, Mounting -
	854-0010	2	Washer, Lock - IT (#10)	14			Transformer, Current with
	526~0049	2	Washer, Flat - Brass (#10)				Mounting Feet
5	813-0110	6	Screw. Machine - Round Head				Ratio (Meter Scale)
			(#10-32 x 2")		302-0864	3	150/5 (0-75/0-150A)
3	354-0010	E	Washer, Lock - IT (#10)				- Before Spec S
4	302-0235	3	Clamp - Upper		302-0865	3	200/5 (0-100/0-200A)
(5)	302-0236	3	Clamp - Lower				- Before Spec S
6	302 -0253	6	Shim		302-1868-03	3	75/5: 150/5 Ratio (EK) -
'?			Transformer, Current				Begin Spec S
			Ratio (Meter Scale)		302-1868-04	3	100/5: 200/5 Ratio (EM)
	302-1365	3	75/5 (0-75A) Before Spec S				Begin Spec S
	302 0078	3	100/5 (0-100A) Before Spec S		302-1868-05	3	150/5; 0-150/0-300 - Begin
	302-0079	3	150/5 (0-150A) Before Spec S				Spec S
	302 0106	3	200/5 (0-200A) Before Spec S	15	98-2263	i	Silkscreen, Transformer
8	302-0729	ì	Bracket, Mounting			***	



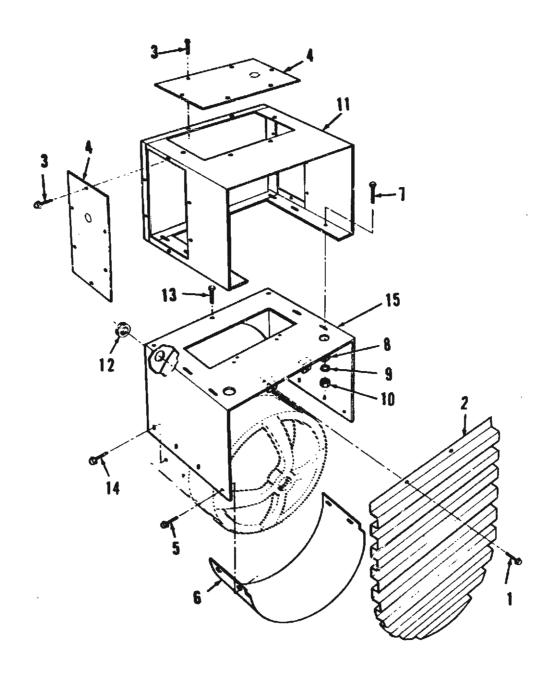
Control Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY	PART DESCRIPTION
1	870-0183	2	Nut, Self-locking - Hex	8	526-0113	2	Washer, Flat (5/16")
•	0.0 0100	•	Washer Head (#6-32)	-	333-0151	ī	Heater, Electrical - 75 Watt.
2	301-1886	1	Cover, Thermostat			_	120 VAC; 300 Watt, 240 VAC
3	860-0006	1	Nut, Hex (#6-32)	10	130-1107	2	Spacer, Sleeve
4	854-0006	2	Washer, Lock - IT (#6)	11	870-0257	2	Nut, Self-locking - Hex
5	812-0070	2	Screw, Machine - Round				(5/16-18)
			Head (#6-32 x 1-1/4")	12	335-0161	1	Cable, Elecrical
6	309-0128	1	Thermostat - Adjustable				
7	800-0034	2	Screw, Cap - Hex Head (5/16-18 x 2-1/4")				

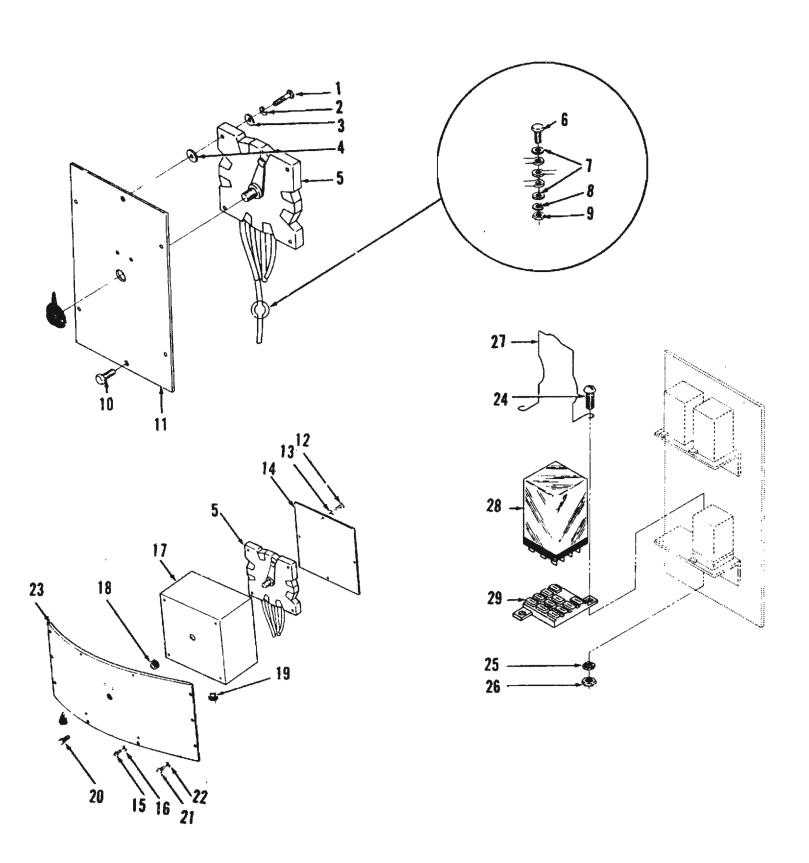


Control Housing



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0010	8	Screw, Self-locking - Hex	8	856-0006	1	Washer, Lock - EIT (1/4")
			Washer Head (1/4-20 x 1/2")	9	526-0018	5	Washer, Flat (1/4")
2	2340370	1	Grille	10	870~0212	6	Nut, Hex (1/4-20)
3	815-0350	18	Screw, Tapping - Hex Washer	11	301-3155	1	Housing
			Head (#10-32 x 3/8")	12	508-0203	1	Bushing, Cable
4	301-3156	3	Panel, Access	13	821-0010	1	Screw, Self-locking - Hex
5	821-0010	4	Screw, Self-locking - Hex				Washer Head $(1/4-20 \times 1/2")$
			Washer Head (1/4-20 x 1/2")	14	821-0014	8	Screw, Self-locking - Hex
6	234-0361	1	Wrapper - Generator				Washer Head $(5/16-18 \times 1/2")$
7	821-0018	6	Screw, Self-locking - Hex Washer Head (1/4-20 x 5/8")	15	301-3154	1	Saddle



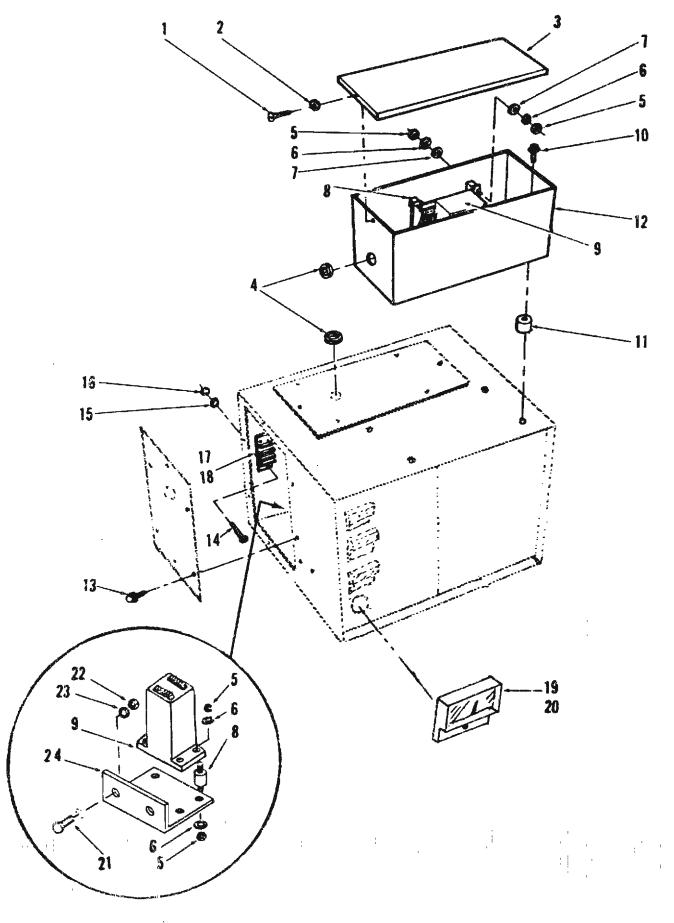




Dual Phase Switch

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.		QTY USED	PART DESCRIPTION
1	812-0153	4	Screw, Machine - Round Head	18	508-0009	1	Grommet (Housed Sets)
			$(1/4-20 \times 1")$	19	508-0115	2	Grommet (Housed Sets)
2	850-0040	4	Washer, Lock - Spring (1/4")	20	821-0014	2	Screw, Self-locking - Hex
3	5 26-0052	4	Washer, Flat (1/4")				Washer Head $(5/16-18 \times 1/2)$
4	526-0054	4	Washer, Flat (5/16")	21	813-0098	6	Screw, Machine - Round Head
5	308-0152	1	Switch, Rotary (Includes				(#10-32 × 3/8")
			Knob)	22	850-0030	6	Washer, Lock - Spring (#10)
6	800-0028	5	Screw, Cap - Hex Head $(5/16-18 \times 1")$	23			Panel, Access - Rear (Housed Sets)
7	526-0002	10	Washer, Flat (#6)		405-1840	1	10-1/4"H x 22"W
8	850-0045	5	Washer, Lock - Spring (5/16")		405-2160	1	14-1/2"H × 22"W
9	862-0015	5	Nut, Hex (5/16-18)	24	812-0061	2	Screw, Machine - Round Head
10	821-0014	2	Screw, Self-locking - Hex				(#6-32 × 3/8")
			Washer Head $(5/16-18 \times 1/2")$	25	853-0003	2	Washer, Lock - ET (#6)
11	301-3292	1	Panel, Mounting	26	860-0006	2	Nut, Hex (#6-32)
			(Unhoused Sets)	27	307-1157	1	Spring - Relay
12	813-0097	4	Screw, Machine - Round Head	28	307-1143	1	*Relay 12 VDC
			$(#10-32 \times 5/16")$	29	323-0764	1	Socket, Relay (Less
13	850-0030	- 4	Washer, Lock - Spring (#10)				Terminals)
14	301-3284	1	Cover, Box (Housed Sets)		332-1280	8	Terminal
15	813-0097	4	Screw, Machine - Round Head (#10-32 x 5/16")		815-0392	1	Plug, Keying
16	850-0030	4	Washer, Lock - Spring (#10)				
17	301-3283	1	Box, Switch (Housed Sets)	* -	Relay Locat	ted With	nin Engine Control.



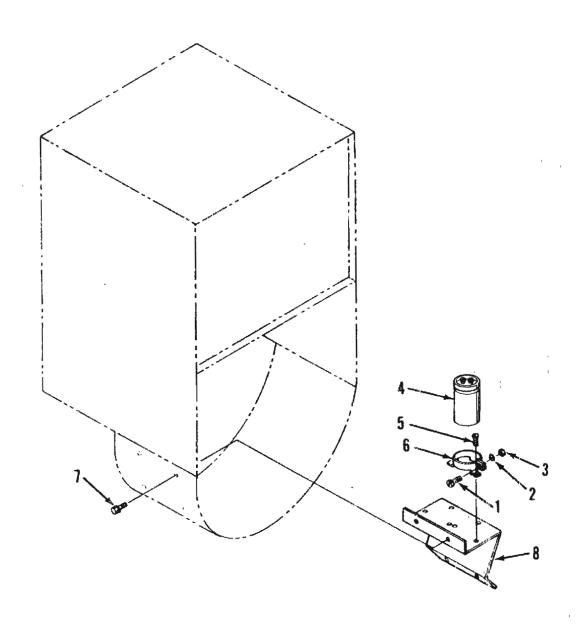




Wattmeter

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815~0026	2	Screw, Machine - Truss Head	18	332-0610	1	Strip, Marker
			(#10-32 x 3/8")	19	302-1722	1	Wattmeter (Less Dial)
2	853-0008	2	Washer, Lock - ET (#10)	20			Dial
3	301-3476	1	Cover, Box		302-1721-01	1	Scale 0-35 kW
			(External Installation)		302-1721-02	1	Scale O-50 k₩
4	508-0001	2	Grommet		302-1721-03	1	Scale 0-70 kW
5	860-0008	8	Nut. Hex (#8-32)		302-1721-04	1	Scale 0-90 kW
6	853- 00 05	8	Washer, Lock - ET (#8)		302-1721-05	1	Scale 0-115 kW
7	526-0003	8	Washer, Flat (#8)		302-1721-06	1	Scale 0-160 kW
8	402-0354	4	Mount, Vibration		302-1721-07	1	Scale 0-180 kW
9			Transducer, Watt		302-1721-08	1	Scale 0-200 kW
	302-1082	1	3 Phase, 60 Hertz		302-1721-09	1	Scale 0-250 kW
	302-1083	1	3 Phase, 50 Hertz		302-1721-10	1	Scale 0-300 kW
	302-1113	1	1 Phase, 60 Hertz	,	302-1721-11	1	Scale 0-350 kW
	302-1114	1	1 Phase, 50 Hertz		302-1721-12	1	Scale 0-400 kW
10	821-0014	8	Screw, Self-locking - Hex		302-1721-13	1	Scale 0-500 kW
			Washer Head (5/16-18 x 1/2")		302-1721-14	1	Scale 0-600 kW
11	402-0078	4	Mount, Vibration		302-1721-15	1	Scale 0-700 kW
12	301-3477	1	Box (External		302-1721-16	1	Scale 0-800 kW
-		_	Installation)		302-1721-17	1	Scale 0-1200 kW
13	815-0350	6	Screw, Tapping - Hex	21	821-0017	2	Screw, Self-locking - Hex
			Washer Head (#10-32 x 3/8")				Washer Head (5/16-18 x 1/2")
14	812-0063	4	Screw, Machine - Round Head	22	862-0014	2	Nut, Hex (5/16-18)
	312 3333	-	(#6-32 × 1/2")	23	850-0045	2	Washer, Lock - Spring (5/16")
15	853-0003	4	Washer, Lock - ET (#6)	24	301-6987	ī	Bracket, Mounting
16	860-0006	4	Nut, Hex (#6-32)				(Internal Installation)
17	332-0609	i	Block, Terminal				(andarmar amagarragram)
A 1	0 0003	-	Dioni, initiat				

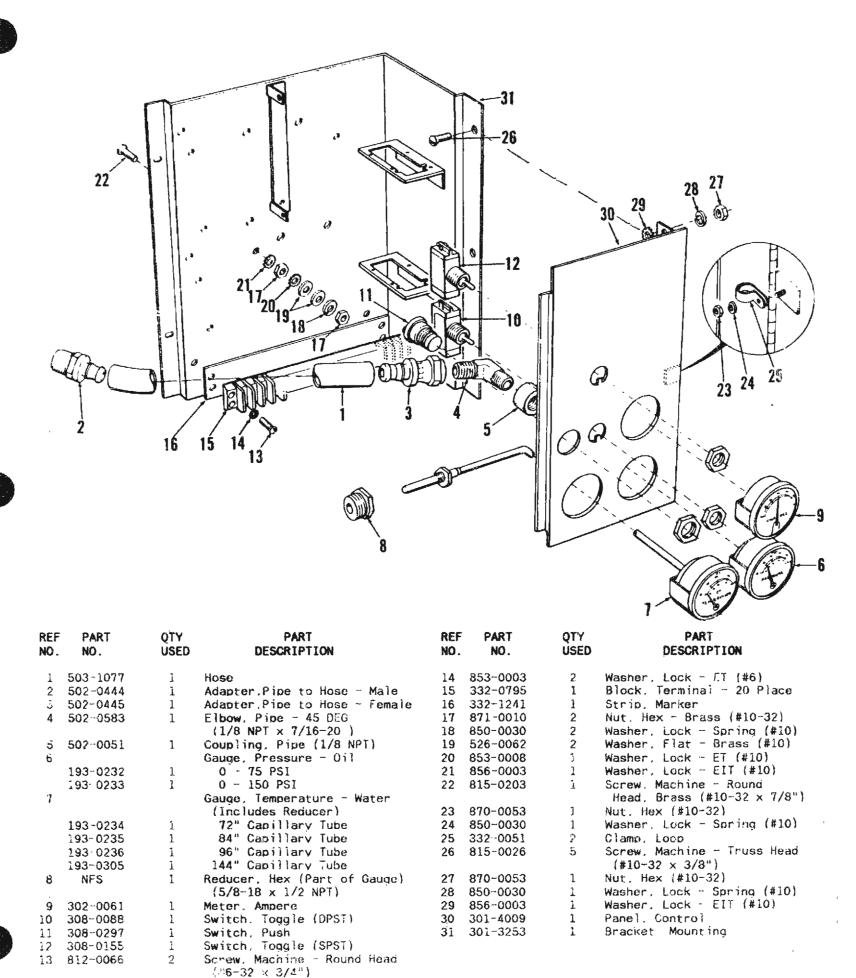




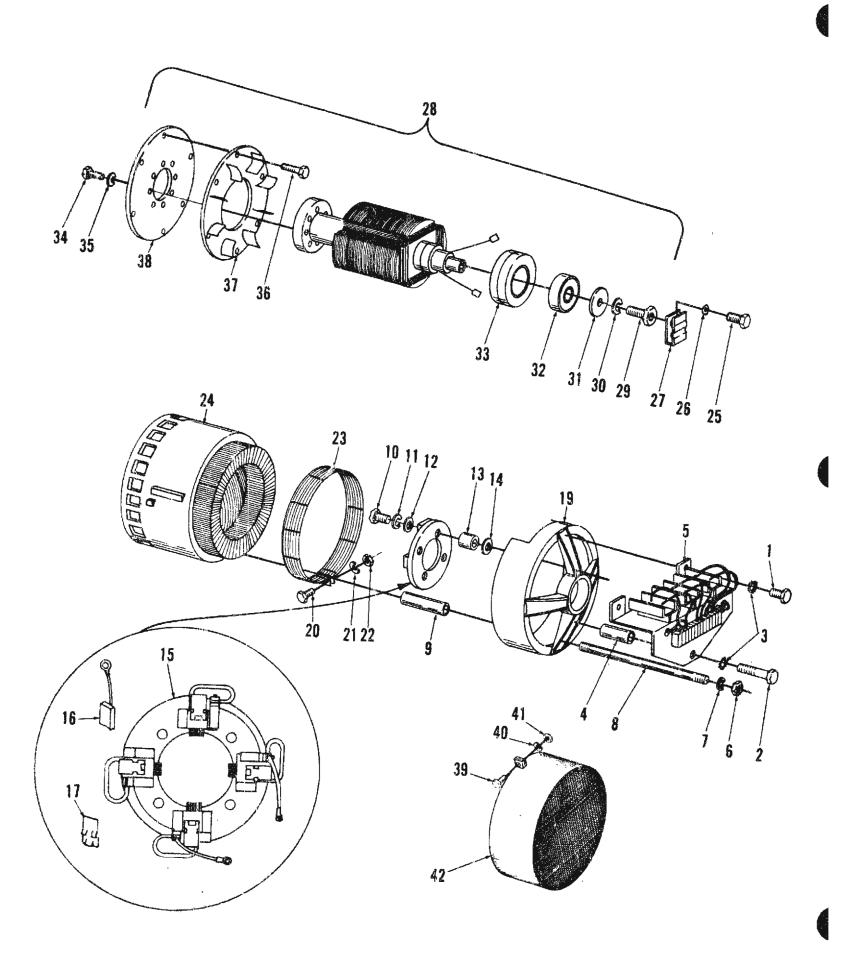
REF	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
ĺ	812-0078	2	Screw, Machine - Round Head	5	356-0102	2	Clamp, Mounting
			(#8-32 × 7/16")	7	821-0009	4	Screw, Self-locking - Hex
2	850-0025	2	Washer, Lock - Spring (#8)				Washer Head $(1/4-20 \times 3/8")$
3	861-0007	2	Nut. Square (#8-32)	8	356-0104	1	Bracket, Mounting
4	356-0090	2	Capacitor				
5	812-0078	6	Screw, Machine - Round Head (#8-32 x 3/8")			; ;	



Engine Control - Mechanical Gauges







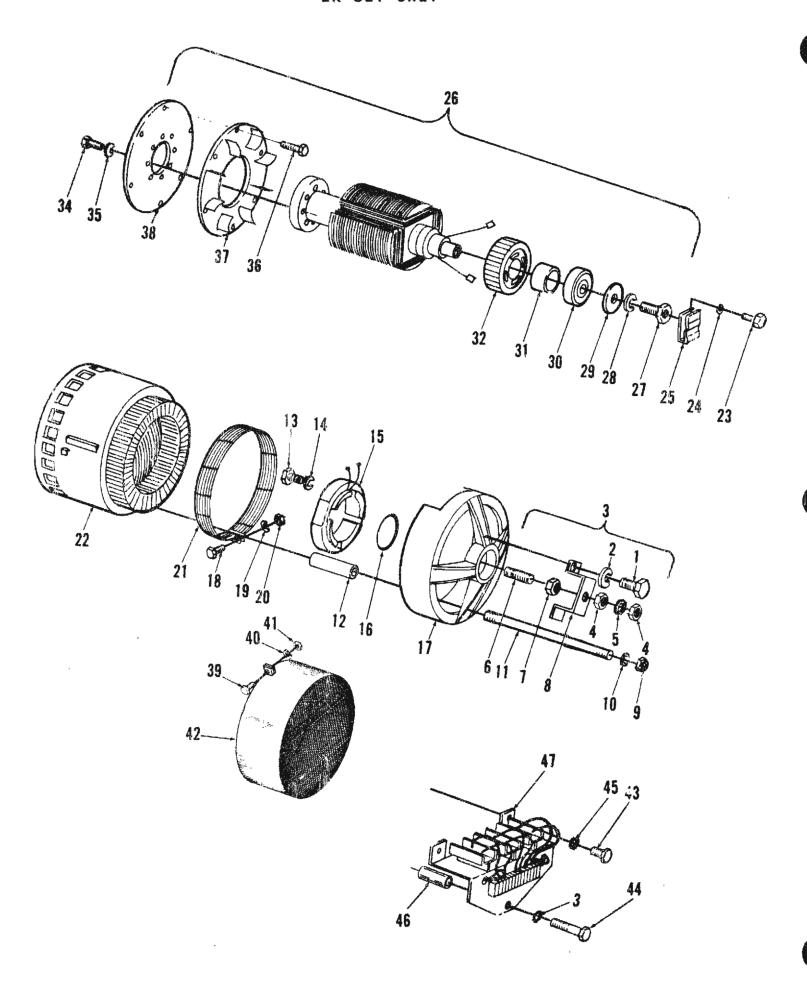


Generator - Spec C Only

(1/4-20 x 1/2") 220-1454 1	REF NO.	PART DESCRIPTION
2 800 0009 1 Screw, Gap rex Head 220-1456 1 45.0 kW, Code 31.853 0013 3 Washer, Lock ET (1/4") 25 800 0048 1 Screw, Cap iii (3/8-16 x 3/4	Ĩ	45.0 kW. Code 3
1/4-20 x 1-1/2" Stack Stack 305-0481 Spacer Steve Spacer		45.0 kW. Code 15
A 305-0481 2 Spacer, Sieeve Camponents Soparate Page for 27 150-0717 1 Switch Switch Rotor Assembly Components 28 Camponents Switch Rotor Assembly Camponents Campon	2	45.0 kW, Code 15 Extended Stack
Sob 0489 1 Regulator, Voltage (See 26 856-0010 1 Switch Soparate Page for 27 150-0717 1 Switch Rotor Assembly (Includes Fan Bearing, Coll. 28 28 290-0721 3 28 290-0721 3 28 290-0721 3 28 290-0721 4 3/8:16 UNC x 16-11/32"LG 201-1640 1 25.0 kW, Cod 520-0723 4 3/8-16 UNC x 17-15/16"LG) 201-1640 1 25.0 kW, Cod 520-0723 4 3/8-16 UNC x 17-15/16"LG) 201-1640 1 25.0 kW, Cod 520-0723 4 3/8-16 UNC x 17-15/16"LG) 201-1643 1 25.0 kW, Cod 520-0723 4 3/8-16 UNC x 17-15/16"LG) 201-1643 1 30.0 kW, Cod 14-0023 4 Screw, Cap - Hex Head, 201-1643 1 30.0 kW, Cod 12 526-0108 4 Washer, Lock - Spring (1/4") 201-1640 1 30.0 kW, Cod 12 526-0108 4 Washer, Flat (1/4") 201-1643 1 37.5 kW, Cod 15 212-013 1 Riq, Bruan (Includes Brushes and Springs) 212-0413 1 Riq, Bruan (Includes Brushes and Springs) 37.5 kW, Cod 815-0203 4 Screw, Machine - Round 201-1643 1 37.5 kW, Cod 815-0203 4 Screw, Machine - Round 201-1643 1 45.0 kW, Cod 815-0040 4 Washer, Lock - ET (#10) 29 800-0513 1 Screw, Cap - Hex Mead 37.5 kW, Cod 516-0049 4 Washer, Flat (#10) 29 800-0513 1 Screw, Cap - Hex Mead 37.5 kW, Cod 516-0049 4 Washer, Flat (#10) 29 800-0513 1 Screw, Cap - Hex Mead 32 201-1045 1 45.0 kW, Cod 516-0049 4 Washer, Flat (#10) 29 800-0513 1 Screw, Cap - Hex Mead 32 201-1045 1 45.0 kW, Cod 516-0049 1 400-003 2 500-0040 2 500-0040 300-	.;	Screw, Cap - Hox Head
Soparate Page for Components) 28	4	$(3/8-16 \times 3/4")$
Components Components Components Components Rotor Assembly Cincludes Fan Rotor OSCO Rotor OSCO	5	Washer, Lock - EIT (3/8")
6 862-0011 4 Nut, Hex - Grade 8 (3/8-16) 7 850-0050 4 Washer, Lock - Spring (3/8") 8 500-0050 4 Washer, Lock - Spring (3/8") 8 500-00721 4 3/8-16 UNC x 16-11/32"LG 201-1643 1 25.0 kW, Cod 520-0723 4 3/8-16 UNC x 17-15/16"LG) 201-1643 1 25.0 kW, Cod 9 503-0611 4 Hose Screw, Cap - Hex Head. 201-1643 1 30.0 kW, Cod Hardened (1/4-20 x 1-1/4") 201-1640 1 30.0 kW, Cod 11 850-0040 4 Washer, Lock - Spring (1/4") 201-1640 1 30.0 kW, Cod 12 526-0108 4 Washer, Flat (1/4") 201-1643 1 30.0 kW, Cod 12 526-0108 3 Washer, Flat (1/4") 201-1643 1 37.5 kW, Cod 14 526-0018 3 Washer, Flat (1/4") 201-1643 1 37.5 kW, Cod 15 212-0413 1 Rio, Brusn (Includes Brushes 201-1645 1 37.5 kW, Cod 2nd Springs) 201-1645 1 37.5 kW, Cod 2nd Springs) 201-1645 1 37.5 kW, Cod 2nd Washer, Flat (1/4") 201-1645 1 37.5 kW, Cod 2nd Washer, Elat (1/4") 201-1645 1 37.5 kW, Cod 2nd Springs) 3 Screw, Machine - Round 201-1645 1 45.0 kW, Cod 2nd Washer, Flat (1/4") 201-1645 1 45.0 kW, Cod 2nd Washer, Flat (1/4") 201-1645 1 45.0 kW, Cod 2nd Washer, Flat (1/4") 201-1645 1 45.0 kW, Cod 2nd Washer, Flat (1/4") 201-1645 1 45.0 kW, Cod 2nd Washer, Flat (1/4") 201-1645 1 45.0 kW, Cod 2nd Washer, Flat (1/4") 201-1645 1 45.0 kW, Cod 2nd Washer, Flat (1/4") 201-1645 1 45.0 kW, Cod 2nd Washer, Flat (1/4") 201-1645 1 45.0 kW, Cod 2nd Washer, Flat (1/4") 201-1645 1 45.0 kW, Cod 2nd 2nd 2nd 2nd 2nd 2nd 2nd 2nd 2nd 2n		Switch
Rish		Rotor Assembly, Generator
Stud	6	(Includes Fan. Disk.
520-0721 4 3/8-16 UNC x 16-11/32"LG 201-1640 1 25.0 kW, Cod 9 503-0511 4 hose 201-1643 1 25.0 kW, Cod 10 114-023 4 Screw, Cap - Hex Head. 201-1643 1 30.0 kW, Cod 11 850-0040 4 Washer, Lock - Spring (1/4") 201-1640 1 30.0 kW, Cod 12 526-0108 4 Washer, Elock - Spring (1/4") 201-1643 1 30.0 kW, Cod 13 212-1225 4 Spacer, Sleeve 201-1645 1 37.5 kW, Cod 14 526-0018 3 Washer, Flat (1/4") 201-1643 1 37.5 kW, Cod 15 212-0413 1 Rig, Brusn (Includes Brushes 201-1645 1 37.5 kW, Cod 16 214 0046 4 Brush, Generator 201-1645 1 45.0 kW, Cod 815-0203 4 Screw, Machine - Round 201-1643 1 45.0 kW, Cod 853-0008 12 Washer, Elat (#10) 29 800-0513 1 Screw, Cab - H 850-0049 4	7	Bearing, Collector)
\$20-072	8	25.0 kW, Code 53
9 503-0511 4 Hose 10 114-023 4 Screw, Cab - Hex Head, 201-1643 1 30.0 kW, Cod Hardened (1/4-20 x 1-1/4") 201-1640 1 30.0 kW, Cod 201-1640 1 201-1643 1 30.0 kW, Cod 201-1640 1 201-1645 1		25.0 kW, Code 515
10		25.0 kW, Code 515 Extended
Hardened (1/4-20 x 1-1/4") 201-1640 1 30.0 kW, Cod 1 2526-0108 4 Washer, Lock - Spring (1/4") 201-1643 1 30.0 kW, Cod 526-0108 3 Washer, Flat (1/4") 201-1645 1 37.5 kW, Cod 526-0108 3 Washer, Flat (1/4") 201-1645 1 37.5 kW, Cod 15 212-0413 1 Riq. Brush (Includes Brushes 201-1645 1 37.5 kW, Cod 37.5 kW, Co	9	Stack
11	10	30.0 kW. Code 3
Stack Space Spac		30.0 kW, Code 15
13 212-1225 4 Spacer, Sleeve 201-1645 1 37.5 kW, Cod 14 526-0018 3 Wasner, Fiat (1/4") 201-1643 1 37.5 kW, Cod 15 212-0413 1 Rig, Brush (Includes Brushes 201-1645 1 37.5 kW, Cod 512-0413 1 45.0 kW, Cod 512-0403 4 Screw, Machine - Round 201-1645 1 45.0 kW, Cod 4 Brush, Generator 201-1645 1 45.0 kW, Cod 4 Brush, Generator 201-1645 1 45.0 kW, Cod 6 853-0008 12 Washer, Lock - ET (#10) 29 800-0513 1 Screw, Cap - H Modified With 871-0010 8 Nut, Hex - Brass (#10-32) 30 850-0079 1 Washer, Lock - 17 212-1105 4 Spring, Brush 31 526-0238 1 Washer, Flat - 18 509-0125 1 Seal, O-Ring 32 510-0101 1 Bearing, Ball 19 211-0185 1 Bell, End 33 204-0083 1 Ring, Collecto 80it, Place - (1/4-20 x 1-1/4") 805-0033 8 5/8-11 x 1" 814 20 805-0035 8 5/8-11 x 1" 824 20-1552 1 25.0 kW, Code 53 220-1454 1 25.0 kW, Code 515 805-0018 8 3/8-16 x 1" 801-k Place - Grade 8 220-1454 1 25.0 kW, Code 15 Stack 37 205-0089 1 Fan. Cooling 220-1454 1 30.0 kW, Code 15 Extented 300-0008 1 Screw, Cap - H 220-1454 1 30.0 kW, Code 15 Extented 300-0008 1 Screw, Cap - H 220-1454 1 30.0 kW, Code 15 Extented 300-0008 1 Screw, Cap - H 220-1454 1 30.0 kW, Code 15 Extented 300-0008 1 Screw, Cap - H 220-1454 1 30.0 kW, Code 15 Extented 300-0008 1 Screw, Cap - H 220-1454 1 30.0 kW, Code 15 Extented 300-0008 1 Screw, Cap - H 220-1454 1 30.0 kW, Code 15 Extented 300-0008 1 Screw, Cap - H 220-1454 1 30.0 kW, Code 15 Extented 300-0008 1 Screw, Cap - H 220-1454 1 30.0 kW, Code 15 Extented 300-0008 1 Screw, Cap - H 220-1454 1 30.0 kW, Code 15 Extented 300-0008 1 Screw, Cap - H 200-1454 1 30.0 kW, Code 15 Extented 300-0008 1 Screw, Cap - H 2	11	30.0 kW, Code 15 Extended
14 526-0018 3 Wasner, Flat (1/4") 201-1643 1 37.5 kW, Cod 15 212-0413 1 Rig, Brush (Includes Brushes 201-1645 1 37.5 kW, Cod 3	12	Stack
14 526-0018	13	37.5 kW, Code 53
15 212-0413 1 Riq, Brush (Includes Brushes and Springs) 16 214-0046 4 Brush. Generator 201-1645 1 45.0 kW. Code 815-0203 4 Screw. Machine - Round 201-1643 1 45.0 kW. Code Read with ET Lockwasher. 201-1645 1 45.0 kW. Code 853-0008 12 Washer, Lock - ET (#10) 29 800-0513 1 Screw, Cap - H Modified With 871-0010 8 Nut. Hex - Brass (#10-32) 30 850-0079 1 Washer, Lock - ET (#10) 17 212-1105 4 Spring, Brush 31 526-0238 1 Washer, Flat - 18 509-0125 1 Seal. O-Ring 32 510-0101 1 Bearing, Ball 19 211-0185 1 Bell. End 33 204-0083 1 Ring, Collecto 20 114-0023 2 Screw. Cap - Hex Head 34 Sorean, Air Screw. Cap - Hex Head 34 Sorean, Cap - Hex Head 34 Sorean, Cap - Hex Hex (1/4-20 x 1-1/4") Sorean, Air 35 526-0259 8 Washer, Flat - 24 Stator Assembly, Generator 36 Screw. Cap - Ring 32 204-0083 8 5/8-11 x 1-1 Stack 37 205-0089 1 Fan. Cooling 220-1454 1 25.0 kW. Code 515 Stack 37 205-0089 1 Fan. Cooling 220-1454 1 30.0 kW. Code 15 Stator Cap - Hex Hex 220-1454 1 30.0 kW. Code 15 Stator Cap - Hex Hex 220-1454 1 30.0 kW. Code 15 Stator Cap - Hex Hex 220-1454 1 30.0 kW. Code 15 Stator Cap - Hex Hex 220-1454 1 30.0 kW. Code 15 Stator Cap - Hex Hex 220-1454 1 30.0 kW. Code 15 Stator Cap - Hex Hex 220-1454 1 30.0 kW. Code 15 Stator Cap - Hex Hex 220-1454 1 30.0 kW. Code 15 Stator Cap - Hex Hex 220-1454 1 30.0 kW. Code 15 Stator Cap - Hex Hex 220-1454 1 30.0 kW. Code 15 Stator Cap - Hex Hex 220-1454 1 30.0 kW. Code 15 Stator Cap - Hex 220-1454 1 30.0 kW. Code 15 Stator Cap - Hex 220-1454 1 30.0 kW. Code 15 Stator Cap - Hex 220-1454 1 30.0 kW. Code 15 Stator Cap - Hex 220-1454 1 30.0 kW. Code 15 Stator Cap - Hex 220-1454 1 30.0 kW. Code 15 Stator Cap - Hex 220-1454 1 30.0 kW. Code 15	14	37.5 kW, Code 515
and Springs) 8rush. Generator 815-0203	15	37.5 kW, Code 515 Extended
16		Stack
Head with ET Lockwasher. 201-1645 1 45.0 kW. Cod Stack 853-0008 12 Washer. Lock - ET (#10) 29 800-0513 1 Screw. Cap - H 526-0049 4 Washer. Flat (#10) Modified With 871-0010 8 Nut. Hex - 8rass (#10-32) 30 850-0079 1 Washer. Lock - ET (10) 17 212-1105 4 Spring. Brush 31 526-0238 1 Washer. Lock - ET (10) 18 509-0125 1 Seal. O-Ring 32 510-0101 1 Bearing. Bail 19 211-0185 1 Bell. End 33 204-0083 1 Ring. Collecto Screw. Cap - Hex Head 34 Boit. Place - (1/4-20 x 1-1/4") Grade 8 1 Screen. Air Screen. Air 35 526-0259 Screw. Cap - Hex Hex 1/4-20 805-0035 Screw. Cap - Hex 1/4-20 805-0035 Screw. Cap - Hex 1/4-20 805-0035 Screen. Air Screen. Air 35 526-0259 Screw. Cap - Hex 1/4-20 805-0035 Screen. Air Screen. Air 35 526-0259 Screw. Cap - Hex 1/4-20 805-0035 Screen. Air Screen.	16	45.0 kW, Code 3
Brass (#10-32 x 7/8") Stack		45.0 kW. Code 15
526-0049 4 Washer, Flat (#10) Modified With 871-0010 8 Nut, Hex = Brass (#10-32) 30 850-0079 1 Washer, Lock = Lock = Lock = 10 Cm mg 17 212-1105 4 Spring, Brush 31 526-0238 1 Washer, Lock = Flat = 10 Cm mg 1 Washer, Flat = 10 Cm mg 1 Bearing, Ball 1 1 Bearing, Ball 1 Bearing, Ball 1 1 1 1 <td></td> <td>45.0 kW. Code 15 Extended Stack</td>		45.0 kW. Code 15 Extended Stack
526-0049 4 Washer, Flat (#10) Modified With 871-0010 8 Nut, hex - Brass (#10-32) 30 850-0079 1 Washer, Lock - Spring, Brush 31 526-0238 1 Washer, Lock - Flat - Lock - Lock - Spring (10-010) 1 Bearing, Ball Bearing, Ba		Screw, Cap - Hex Head.
17 212-1105		Modified With Tapped Hole
18 509-0125		Washer, Lock - Spring (3/4")
19 211-0185	17	Washer, Flat - Steel (3/4")
20 114-0023	18	
(1/4-20 x 1-1/4") Grade 8 21 850-0040 Washer, Lock - Spring (1/4") 805-0033 5/8-11 x 1" 22 862-0001 Nut, Hex (1/4-20) 805-0035 5/8-11 x 1-1 23 234-0368 Screen, Air 35 526-0259 Washer, Flat - 24 Stator Assembly, Generator 36 Bolt, Place - 220-1552 1 25.0 kW, Code 53 Grade 8 220-1451 1 25.0 kW, Code 515 805-0018 8 3/8-16 x 1" 220-1454 1 25.0 kW, Code 515 Extended 805-0019 8 3/8-16 x 1-1 Stack 37 205-0089 1 Fan. Cooling 220-1552 1 30.0 kW, Code 3 38 232-2078 1 Disk, Drive 220-1451 1 30.0 kW, Code 15 39 800-0008 1 Screw, Cap - H 220-1454 1 30.0 kW, Code 15 Extented (1/4-20 x 1-1	19	Ring, Collector
21 850-0040	20	Boit, Place - Hex Head,
22 862-0001 2 Nut, Hex (1/4-20) 805-0035 8 5/8-11 x 1-1 23 234-0368 1 Screen, Air 35 526-0259 8 Washer, Flat - 24 Stator Assembly, Generator 36 Bolt, Place - 220-1552 1 25.0 kW. Code 53 220-1451 1 25.0 kW. Code 515 805-0018 8 3/8-16 x 1" 220-1454 1 25.0 kW. Code 515 Extended 805-0019 8 3/8-16 x 1-1 Stack 37 205-0089 1 Fan. Cooling 220-1552 1 30.0 kW. Code 3 38 232-2078 1 Disk, Drive 220-1451 1 30.0 kW. Code 15 39 800-0008 1 Screw, Cap - H 220-1454 1 30.0 kW. Code 15 Extented (1/4-20 x 1-1)		
23 234-0368 1 Screen, Air 35 526-0259 8 Washer, Flat - 24 Stator Assembly, Generator 36 Bolt, Place - 220-1552 1 25.0 kW. Code 53 Grade 8 220-1451 1 25.0 kW. Code 515 805-0018 8 3/8-16 x 1" 220-1454 1 25.0 kW. Code 515 Extended 805-0019 8 3/8-16 x 1-1 Stack 37 205-0089 1 Fan. Cooling 220-1552 1 30.0 kW. Code 3 38 232-2078 1 Disk, Drive 220-1451 1 30.0 kW. Code 15 39 800-0008 1 Screw, Cap - H 220-1454 1 30.0 kW. Code 15 Extented (1/4-20 x 1-1)	21	
24 Stator Assembly, Generator 36 Bolt, Place — 220-1552 1 25.0 kW. Code 53 Grade 8 220-1451 1 25.0 kW. Code 515 805-0018 8 3/8-16 x 1" 220-1454 1 25.0 kW. Code 515 Extended 805-0019 8 3/8-16 x 1-1 Stack 37 205-0089 1 Fan. Cooling 220-1552 1 30.0 kW. Code 3 38 232-2078 1 Disk, Drive 220-1451 1 30.0 kW. Code 15 39 800-0008 1 Screw, Cap — H 220-1454 1 30.0 kW. Code 15 Extented (1/4-20 x 1-1)	22	5/8-11 × 1-1/2"
220-1552 1 25.0 kW. Code 53 Grade 8 220-1451 1 25.0 kW. Code 515 805-0018 8 3/8-16 x 1" 220-1454 1 25.0 kW. Code 515 Extended 805-0019 8 3/8-16 x 1-1 Stack 37 205-0089 1 Fan. Cooling 220-1552 1 30.0 kW. Code 3 38 232-2078 1 Disk. Drive 220-1451 1 30.0 kW. Code 15 39 800-0008 1 Screw. Cap - H 220-1454 1 30.0 kW. Code 15 Extented (1/4-20 x 1-1)	23	Washer, Flat - Hardened (5/8")
220-1451 1 25.0 kW. Code 515 805-0018 8 3/8-16 x 1" 220-1454 1 25.0 kW. Code 515 Extended 805-0019 8 3/8-16 x 1-1 Stack 37 205-0089 1 Fan. Cooling 220-1552 1 30.0 kW. Code 3 38 232-2078 1 Disk. Drive 220-1451 1 30.0 kW. Code 15 39 800-0008 1 Screw. Cap - H 220-1454 1 30.0 kW. Code 15 Extented (1/4-20 x 1-1	24	Bolt, Place - Hex Head,
220-1454 1 25.0 kW, Code 515 Extended 805-0019 8 3/8-16 x 1-1 Stack 37 205-0089 1 Fan. Cooling 220-1552 1 30.0 kW, Code 3 38 232-2078 1 Disk, Drive 220-1451 1 30.0 kW, Code 15 39 800-0008 1 Screw, Cap - H 220-1454 1 30.0 kW, Code 15 Extented (1/4-20 x 1-1		
Stack 37 205-0089 1 Fan. Cooling 220-1552 1 30.0 kW. Code 3 38 232-2078 1 Disk. Drive 220-1451 1 30.0 kW. Code 15 39 800-0008 1 Screw. Cap - H 220-1454 1 30.0 kW. Code 15 Extented (1/4-20 x 1-1		
220-1552		3/8-16 x 1-1/4"
220-1451 1 30.0 kW, Code 15 39 800-0008 1 Screw, Cap - H 220-1454 1 30.0 kW, Code 15 Extented (1/4-20 x 1-1		Fan. Cooling
220-1454 1 30.0 kW, Code 15 Extented (1/4-20 x 1-1		
CEO 1404 C OCO WY, DOWN to EXCONTOR		Screw, Cap - Hex Head
Stack 40 850-0040 1 Washer, Lock -		(1/4-20 x 1-1/4") Washer, Lock - Spring (1/4")
		Nut, Hex (1/4-20)
220-1454 1 37.5 kW. Code 515 42 234-0369 1 Cover		
		(Used On Housed Sets Only)



Generator - Begin Spec D EK SET CNLY



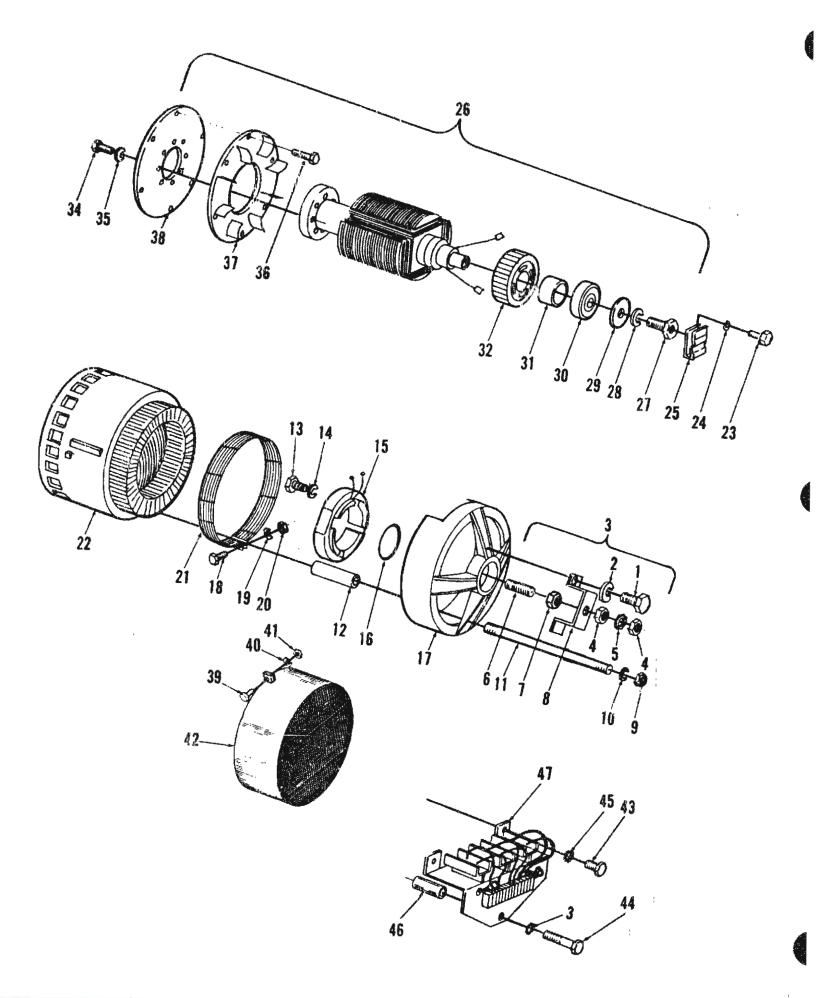


Generator - Begin Spec D EK SET ONLY

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
ì	800-0003	2	Screw. Cap - Hex Head (1/4-20 x 1/2")	26			Rotor Assembly, Generator (Includes Fan, Disk,
2	800-0009	2	Screw, Cap - Hex Head (1/4-20. x 1-1/2")		201-2669	1	Bearing, Exciter) 25.0 kW Code 53
3	150-1456	1	Contact Assembly (Includes Contact		201-2687	1	25.0 kW Code 53 Enviro- mental Protected
			and Mounting Bracket) Begin 1976, Spec F		201-2666 2 01-2669	1	25.0 kW Code 515 25.0 kW Code 515 Extended
4	862-0001	2	Nut. Hex (1/4-20)				Stack
5	853-0013	1	Washer, Lock ~ ET (1/4")		201-2669	1	30.0 kW Code 3
6	150-0723	1	Contact, Electrical		201-2687	1	30.0 kW Gode 3 Enviro-
7	870 -0250	1	Nut. Insulated		201~2666	1	mental Protected 30.0 kW Code 6D, 9X, 15
8 9	150-1356 862-0011	1 4	Bracket, Mounting Nut. Hex - Grade 8 (3/8-16)		201-2668	1	30.0 kW 'ode 7
10	850-0050	4	Washer, Lock - Spring (3/8")		201~2669	1	30.0 kW Jode 15 Extended
11	050 0050	7	Stud		201 2000	•	Stack
	520-0721	4	3/8-16 UNC x 16-11/32"		201-2684	1	30.0 kW Code 15 Enviro-
	520-0723	4	3/8-16 UNC × 17-15/16"				mental Protected
12	503-0611	4	Hose		201-2687	1	30.0 kW Code 15 Extended
13	800-0009	4	Screw, Cap - Hex Head (1/4-20 x 1-1/2")				Stack And Enviromental Protected
14 15	850 -0040	4	Washer, Lock - Spring (1/4") Stator, Exciter	27	800-0513	1	Screw, Cap - Hex Head. Modified With Tapped Hole
	220-1528	1	Standard Spec C Through E		850-0079	1	Washer, Lock - Spring (3/4")
	220-2353	1	Standard Begin Spec F	29	526-0238	1	Washer, Flat - Steel Alloy (3/4")
	220 - 1774	1	Enviromental Protected Begin Spec F	30	510-0101	1	Bearing, Ball
16	509-0125	1	Seal, O-Ring		232-2102	1	Spacer, Sleeve
17	211-0185	1	Bell, End	32	232 2101	-	Rotor, Assembly - Exciter
18	114-0023	2	Screw, Cap Hex Head {1/4-20 x 1 1/4"	O.L.			(See Separate Page for Components)
19	850-0040	2	Washer, Lock - Spring (1/4")		201-1739	1	Standard
20	862-0001	2	Nut, Hex (1/4-20)		201-1845	1	Enviromental Protected
21 22	234-0368	1	Screen, Air Stator Assembly, Generator		515-0145	1	Key, Machine (1/4" x 1/4" x 7/8")
	220-1552	1	25.0 kW, Code 53	34			Bolt, Place - Hex Head,
	220-1845	1	25.0 kW. Code 53 Environ		205 2220	_	Grade 8
	000 1004		mental Protected		805-0033	9	5/8-11 x 1" 5/8-11 x 1-1/2"
	220-1994	1	25.0 kW, Code 515 25.0 kW, Code 515 Extended	35	805-0035 526-0259	8 8	Washer, Flat - Hardened (5/8")
	220-1997	1	Stack	36	320 0203	Ū	Bolt Place - Hex Head,
	220-1552	1	30.0 kW, Code 3				Grade 8
	220-1845	ī	30.0 kW, Code 3 Enviro-		805-0018	8	3/8-16 × 1"
		,	mental Protected		805-0019	8	3/8-16 x 1-1/4"
	220-2621	1	30.0 kW, Code 6D		205-0089	1	Fan. Cooling
	220-2459	1	30.0 k₩, Code 7		232~2078	1	Disk, Drive
	220-1599	1	30.0 kW, Code 9X	39	800-0008	1	Screw, Cap - Hex Head
	220-1451	1	30.0 kW, Code 15	40	0E00040	1	(1/4-20 x 1-1/4") Washer, Lock - Spring (1/4")
	220~1454	1	30.0 kW, Code 15 Extended Stack		850-0040 862-0001	1	Nut, Hex (1/4-20)
	220-1783	1	30.0 kW, Code 15 Enviro-	42		1	Cover
	220 1103	-	mental Protected	76	204 0000	-	(Housed Sets Only)
	220-1786	1	30.0 kW, Code 15 Extended Stack And Environmental	43	800-0003	2	Screw, Cap - Hex Head (1/4-20 x 1/2")
23	800-0048	ī	Protected Screw, Cap - Hex Head	44	800-0009	1	Screw, Cap - Hex Head (1/4-20 x 1-1/2")
		-	$(3/8-16 \times 3/4")$	45	853~0013	3	Washer, Lock - ET (1/4")
24	856-0010	1	Washer, Lock - EIT (3/8")		305-0481	2	Spacer, Sleeve
25	150-0717	1	Switch	47	305-0491	1	Regulator, Voltage (See Separate Page for Component) 1971 Thru 1975, Spec D & E



Generator - Begin Spec D EM SET ONLY



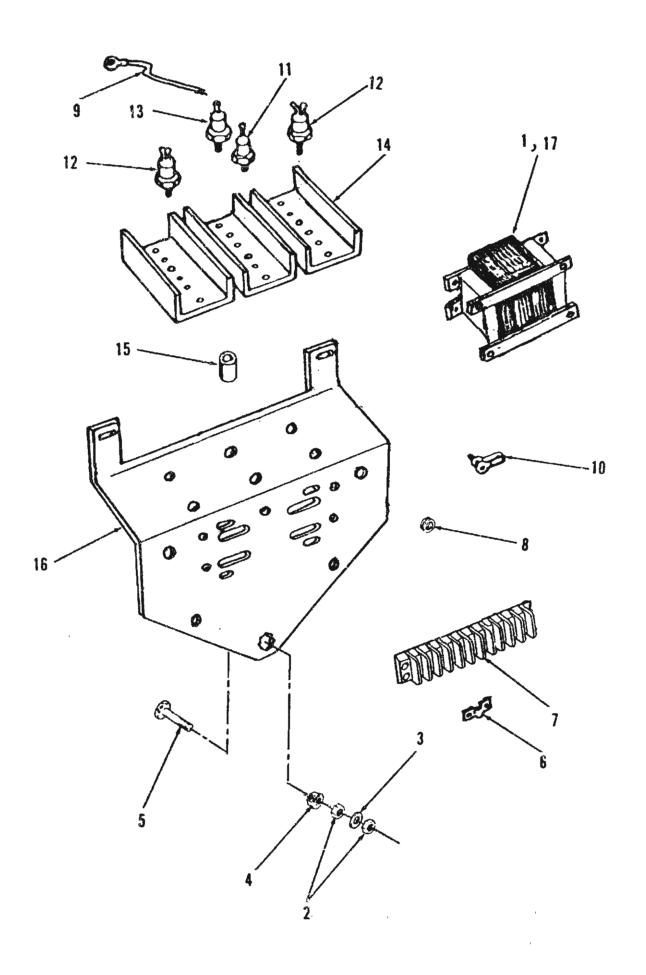


Generator - Begin Spec D EM SET ONLY

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.		QTY USED	PART DESCRIPTION
1	800-0003	2	Screw, Cap - Hex Head (1/4-20 x 1/2")	26			Rotor Assembly, Generator (Includes Fan, Disk,
5	800-0009	2	Screw, Cap - Hex Head (1/4-20 x 1-1/2")		201-2671	1	Bearing, Exciter) 37.5 kW Code 53
3	150-1456	1	Contact Assembly (Includes Contact and Mounting Bracket)		201-2689 201-2669	1	37.5 kW Code 53 Enviro- mental Protected 37.5 kW Code 515
4	862-0001	2	Begin 1976, Snec F Nut, Hex (1/4-20)		201-2671	1	37.5 kW Gode 515 Extended Stack
5	853-0013	1	Washer, Lock - ET (1/4")		201-2671	1	45.0 kW Code 3
6	150-0723	ī	Contact, Electrical		201-2689	ĩ	45.0 kW Code 3 Enviro-
7	870-0250	ī	Nut, Insulated		201 2000	-	mental Protected
8	150-1356	ĩ	Bracket, Mounting		201-2669	1	45.0 kW Code 6D, 7, 9X, 15
9	862-0011	4	Nut, Hex - Grade 8 (3/8-16)		201-2671	ī	45.0 kW Code 15 Extended
10	850 0050	4	Washer, Lock - Spring (3/8")		201 2011	-	Stack
11	520-0721	4	Stud 3/8-16 UNC × 16-11/32"		201-2687	1	45.0 kW Code 15 Enviro- mental Protected
	520-0723	4	3/8-16 UNC x 17-15/16"		201-2689	1	45.0 kW Code 15 Extended
12	503-0611	Ą	Hose		201 2003	•	Stack And Environmental
13	800-0009	4	Screw, Cap - Hex Head (1/4-20 x 1-1/2")	27	800-0513	1	Protected Screw, Cap - Hex Head.
14	850-0040	4	Washer, Lock - Spring (1/4")			_	Modified With Tapped Hole
15	***	4	Stator, Exciter	28	850-0079	1	Washer, Lock - Spring (3/4")
	220-1528	1	Standard Spec C Through E	29		1	Washer, Flat - Steel (3/4")
	220-2353	1	Standard Begin Spec F	30	510-0101	1	Bearing, Ball
	220-1774	1	Enviromental Protected Begin Spec F	31 32	232-2102	1	Spacer, Sleeve Rotor, Assembly - Exciter
16	509-0125	1	Seal, O-Ring				(See Separate Page for
17	211-0185	1	Bell, End				Components)
18	114-0023	2	Screw, Cap - Hex Head		201-1739	1	Standard
			$(1/4-20 \times 1-1/4"$		201-1845	1	Enviromental Protected
19 20	850-0040 862-0001	2 2	Washer, Lock - Spring (1/4") Nut, Hex (1/4-20)	33	515-0145	1.	Key, Machine (1/4" x 1/4" x 7/8")
21	234 -0368	1	Screen, Air	34			Bolt, Place - Hex Head.
22			Stator Assembly, Generator				Grade 8
	220-1554	1	37.5 kW, Code 53		805-0033	8	5/8-11 × 1"
	220-1847	1	37.5 kW, Code 53 Enviro-		805-0035	8	5/8-11 × 1-1/2"
			mental Protected	35	526-0259	8	Washer, flat - Hardened (5/8")
	220-1997	1	37.5 kW, Code 515	36			Bolt, Place - Hex Head,
	220-1999	ı	37.5 kW, Code 515 Extended				Grade 8
			Stack		805-0018	8	3/8-16 × 1"
	220-1554	1	45.0 kW, Code 3		805-0019	8	3/8-16 x 1-1/4"
	220-1847	1	45.0 kW, Code 3 Enviro-		205-0089	1	Fan, Cooling
			mental Protected		232-2078	1	Disk, Orive
	220-2624	1	45.0 kW, Code 6D	39	800-0008	1	Screw, Cap Hex Head
	220-2462	1	45.0 kW, Code 7			_	$(1/4-20 \times 1-1/4")$
	220-1602	1	45.0 kW, Code 9X		850-0040	1	Washer, Lock - Spring (1/4")
	220-1454	1	45.0 kW, Code 15	41	862-0001	1	Nut, Hex (1/4-20)
	220-1456	1	45.0 kW, Code 15 Extended Stack	42	234-0369	1	Cover (Housed Segs Only)
	220~1786	1	45.0 kW, Code 15 Enviro- mental Protected	43	800-0003	2	Screw, Cap - Hex Head (1/4-20 x 1/2")
	220-1788	1	45.0 kW, Code 15 Extended Stack And Environmental	44	800-0009	1	Screw. Cap - Hex Head (1/4-20 x 1-1/2")
00	000 0040		Protected		853-0013	3	Washer, Lock - ET (1/4")
23	800-0048	1	Screw, Cap - Hex Head (3/8-16 x 3/4")		305-0481 305-0491	2 1	Spacer, Sleeve Regulator, Voltage (See
24	856-0010	1	Washer, Lock - EIT (3/8")				Separate Page for Component)
25	150-0717	1	Switch				1971 Thru 1975, Spec D & E



Voltage Regulator



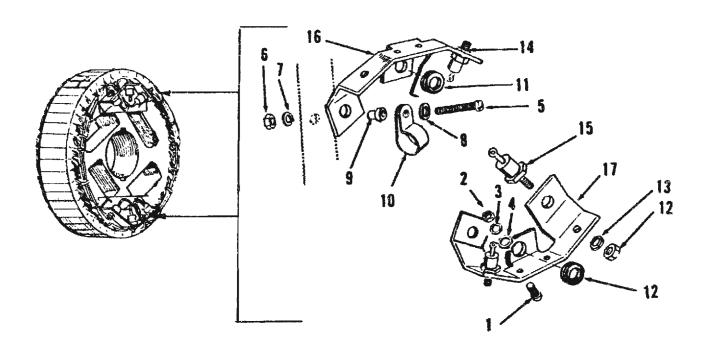


Voltage Regulator

REF	PART	QTY	PART	REF		YTQ	PART
NO.	NO.	USED	DESCRIPTION	NO.	NO.	USED	DESCRIPTION
			Regulator, Voltage -	10	332-1415	1	Clamp, Cable
			Brush Generators	11		1	Rectifier CR3
	305-0489	1	25 kW Through 40 kW,		871-0010	1	Nut, Hex - Brass (#10-32)
	000 0100	-	Code 3, 53		850-0030	1	Washer, Lock - Spring (#10)
	305-0489	1	25 kW Through 55 kW,		526-0009	ī	Washer, Flat (#10 and #12)
	000 0100	-	Code 15, 515	12			Rectifier Q4, Q5
	305-0483	1	60 kW Through 90 kW,		364-0012	2	Part of 305-0483 Regulator
		-	Code 15, 515		364-0012	2	Part of 305-0489 Regulator
	305-0491	1	Brushless Generators,		364-0014	2	Part of 305-0491 Regulator
		_	All Codes		871-0018	2	Nut, Hex - Brass (1/4-20)
1			Reactor L1		850-0040	2	Washer, Lock - Spring (1/4")
•	315-0339	1	Part of 305-0483 Regulator		526-0018	2	Washer, Flat (1/4")
	315-0341	1	Part of 305-0489 Regulator	13			Rectifier CR1, CR2
	813-0100	4	Screw. Machine - Round		358-0031	2	Part of 305-0483 Regulator
			Head (#10-32 x 1/2")		358-0031	2	Part of 305-0489 Regulator
	853-0008	4	Washer, Louk - ET (#10)		358-0035	2	Part of 305-0491 Regulator
2	862-0001	2	Nut, Hex (1/4-20)		871-0018	2	Nut, Hex - Brass (1/4-20)
3	853-0013	1	Washer, Lock - ET (1/4")		850-0040	2	Washer, Lock - Spring (1/4")
4	870-0250	1	Nut, Insulating (1/4")		526-0018	2	Washer, Flat (1/4")
5	150-0723	1	Contact, Electrical	14	363-0048	3	Sink, Heat
6	332-1043	2	Jumper, Terminal		812-0077	12	Screw, Machine - Round Head
7	332-1266	1	Block, Terminal				(#8-32 × 3/8")
	812-0081	2	Screw, Machine - Round		853-0005	12	Washer, Lock - ET (#8)
			Head (#8-32 x 5/8")	15	332-1265	6	Insulator
	853-0005	2	Washer, Lock - ET (#8)	16	305-0482	1	Chassis
	860-0008	2	Nut, Hex (#8-32)	17	315-0343	1	Reactor L1
8	508-0002	2	Grommet				Part of 305-0491 Regulator
9	NF\$	3	Lead, Electrical		812-0077	2	Screw, Machine - Round Head
	812-0079	3	Screw, Machine - Round				(#8-32 × 3/8")
			Head (#8-32 x 1/2")		853-0005	2	Washer, Lock - ET (#8)
	853-0005	3	Washer, Lock - ET (#8)		860-0008	2	Nut, Hex (#8-32)
	526-0048	2	Washer, Flat - Brass (#8)				
	871-0007	3	Nut, Hex - Brass (#8-32)				



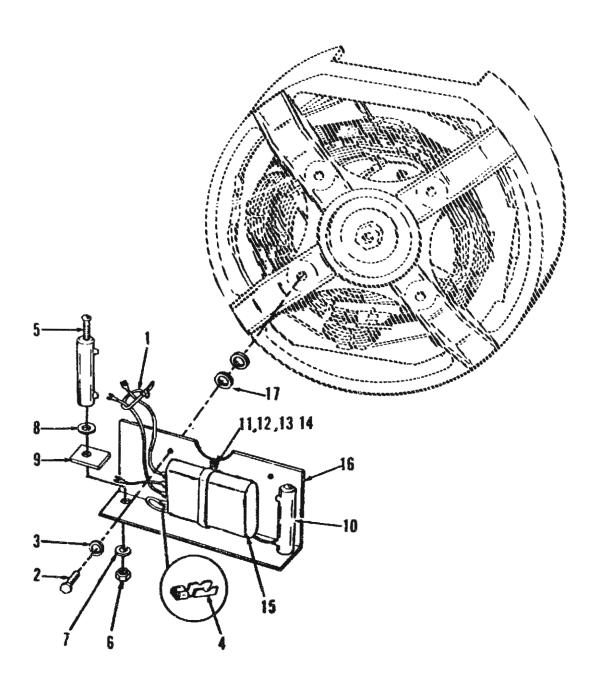
Exciter Rotor



REF	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	8/13-0100	2	Screw, Machine - Round Head	12	870-0053	6	Nut, Hex (#10-32)
			(#10-32 × 1/2")	13	850-0030	6	Washer, Lock - Spring (#10)
2	870-0053	2	Nut. Hex (#10-32)	14			Rectifier - Positive
3	850-0030	2	Washer Lock - Spring (#10)				CR1, CR2, CR3
4	526-0008	2	Washer, Flat (#10)		358-0097	3	Standard
5	813-0110	4	Screw, Machine - Round Head		358-0044	3	Enviromental Protected
_			(#10-32 x 2")	15			Rectifier - Negative
6	870-0053	4	Nut, Hex (#10-32)				CR4, CR5. CR6
7	850-0030	4	Washer, Lock - Spring (#10)		358-0096	3	Standard
8	526-0009	4	Washer, Flat (#10 and #12)		358-0043	3	Enviromental Protected
9	508-0187	4	Spacer, Stepped	16	363-0054	1	Sink, Heat
10	332-0050	2	Clamp, Loop	17	363-0055	ì	Sink, Heat
11	508-0093	2	Grommet				



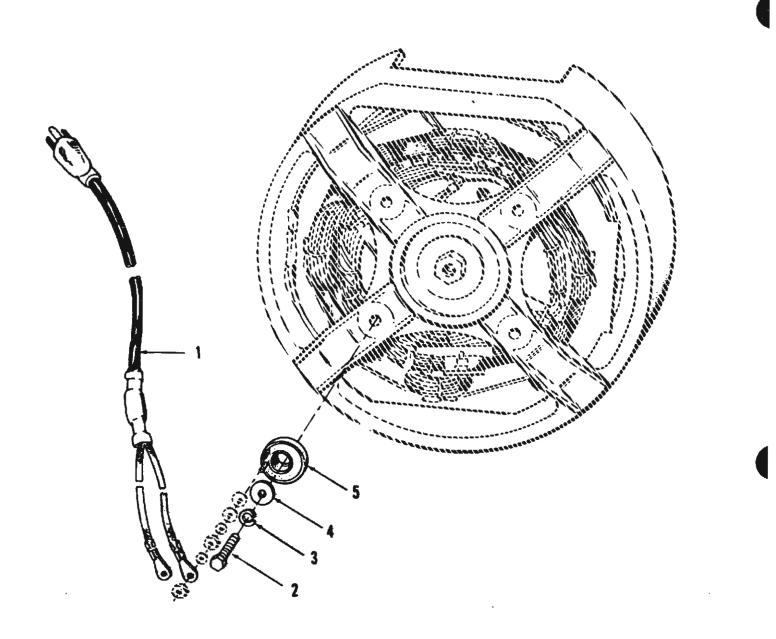
Voltage Regulator Filter



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	332-0941	5	Tie, Cable	8	304-0427	4	Washer, Centering
2	800-0003	2	Screw, Cap - Hex Head	9	304-0292	2	Insulator
			$(1/4-20 \times 1/2")$	10	354-0025	2	Resistor
3	850-0040	2	Washer, Lock - Spring (1/4")	11	813-0098	2	Screw, Machine - Round Head (#10-32 x 3/8")
	332-0529	4	Bare (14-18 AWG)	12	870-0053	2	Nut, Hex (#10-32)
	332-1279	8	Insulated (14-18 AWG)	13	850-0030	2	Washer, Lock - Spring (#10)
5	812-0165	2	Screw, Machine - Round Head	14	312-0189	1	Bracket, Mounting
			$(1/4-20 \times 4-1/2")$	15	312-0188	1	Capacitor
6	862-0001	2	Nut. Hex (1/4-20)	16	232-2218	1	Bracket, Mounting
7	650-0040	2	Washer, Lock - Spring (1/4")	17	526-0018	15	Washer, flat (1/4")



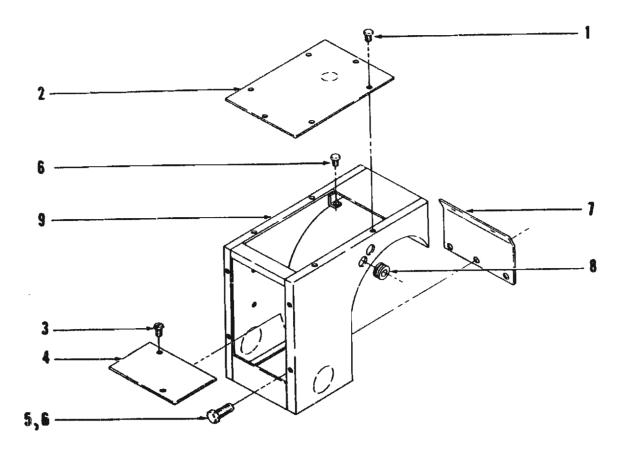
Generator Heater



REF NO.	PART NO.	QTY USED	PART Description	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cable, Electrical (Includes Thermostat and (2) Grommets)	3	850-0038 526-0158	1	Washer, Lock - Spring (1/4") Washer, Flat (1/4")
	335-0146	1	120 VAC	5			Heater, Electrical
	335-0147	1	240 VAC		333-0059	1	125 Watt, 120 VAC
2	800-0004	1	Screw, Cap - Hex Head (1/4-20 x 5/8")		333-0192	1	200 Watt, 240 VAC



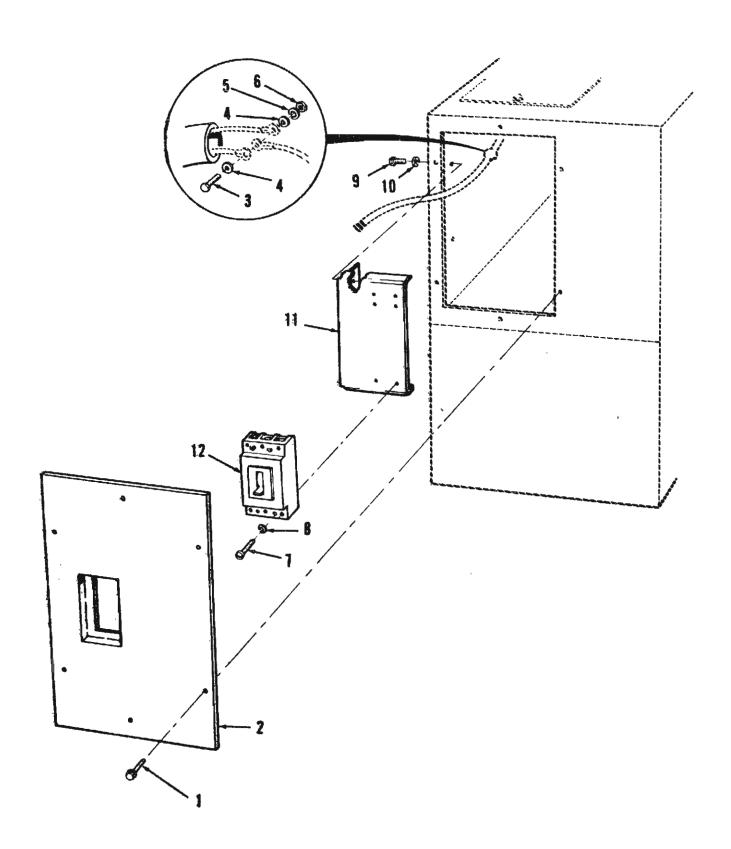
Output Box



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0005	12	Screw, Self-locking - Hex Washer Head (#10-32 x 1/2")	6	821-0010	2	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")
2	301-3156	2	Panel, Access	7	301-3196	1	Bracket, Support
3	815-0030	2	Screw, Tapping - Hex Head,	8	508-0203	2	Bushing
	,		Slotted (#10-32 x 3/8")	9	301-3191	1	Box, Output
4	301-3195	1	Plate, Access - Bottom				
5	821-0014	2	Screw, Self-locking - Hex Washer Head $(5/16-18 \times 1/2")$				



Circuit Breaker - Spec C Through P



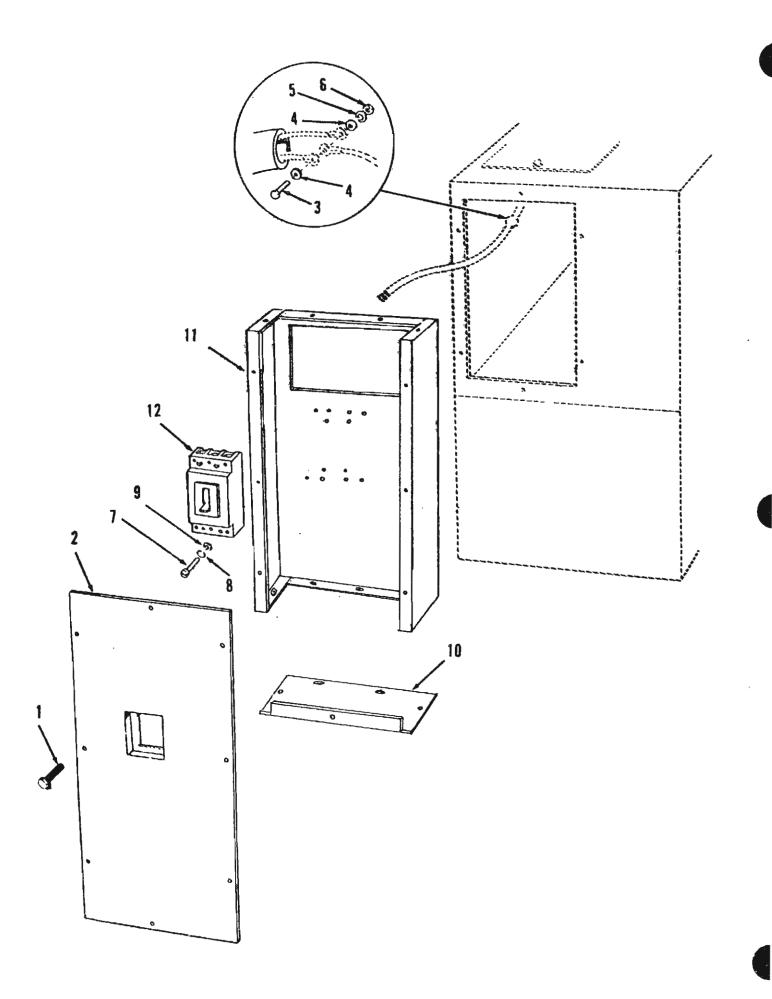


Circuit Breaker - Spec C Through P

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815 0350	6	Screw, Tapping - Hex Washer Head (#10-32 x 3/8")	12			Circuit Breaker (Voltage application in
	301-3192	:	Cover				parens)
3	800-0028	ວັ	Screw, Cap - Hex Head				EK GEN SET
			$(5/16-18 \times 1")$		320-0415	i	40Amb (347/600V, 3 Phase)
4	526-0022	10	Washer, Flat (5/16")		320-0413	1	50Amp (277/480V, 3 Phase)
5	850 0045	5	Washer, Lock - Spring (5/16")		320-0384	1	60Amb (220/380V, 3 Phase)
6	862-0015	5	Nut, Hex (5/16-18)		320-0384	l	60Amp (200/346V, 3 Phase)
7	812 0094	4	Screw, Machine - Round Head		320-0411	<u>1</u>	90Amp (120/240V, 3 Phase)
			(#8·32 x 3-5/8")		320-0412	1	100Amp (120/208V, 3 Phase)
8	850-0025	4	Washer, Lock - Spring (#8)		320-0344	ž	175Amp (120/240V, 1 Phase)
A	£000-008	2	Screw. Cab ~ Hex Head (1/4-20 x 1/2")				EM GEN SET
io	350~0040	2	Washer, Lock - Spring (1/4")		320-0416	1	60Amo (347/600V 3 Phase)
ii	301-3197	i	Bracket, Mounting		320-0414	ī	70Amp (277/480V 3 Phase)
• -	001 0101	•	bi dalide, i locale ing		320-0379	1	90Amp (220/380V 3 Phase)
					320-0379	ī	90Amp (200/346V 3 Phase)
					320-0346	1	150Amp (120/240V 3 Phase)
					320-0346	ī	150Amp (120/208V 3 Phase)
			v		320-0359	1	225Amp (120/240V 1 Phase)



Circuit Breaker - Begin Spec R





Circuit Breaker - Begin Spec R

REF	PART NO.	QTY USED	PART DESCRIPTION	REF NO.		QTY USED	
1	821-0010	22	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")	12			Breaker, Circuit (Voltage Application in Parens)
2			Cover				EK SET ONLY
	301-9892	1	For Breaker Marked *		320-1458-28	1	€ 40 Amp (347/600V, 3 Phase)
	301-9682	1	For Breaker Marked 🖲		320-1458-23	1	@ 50 Amp (277/480V, 3 Phase)
3	800-0028	5	Screw, Cap - Hex Head		320-1458-24	1	@ 60 Amp (220/380V, 3 Phase)
			$(5/16-18 \times 1")$		320-1458-24	1	@ 60 Amp (200/346V, 3 Phase)
4	526-0022	5	Washer, Flat (5/16")		320-1458-13	1	@ 90 Amp (120/240V, 3 Phase)
5	850-0045	5	Washer, Lock - Spring (5/16")		320-1458-29	1	@ 110 Amp (120/208V, 3 Phase)
6	862-0015	5	Nut, Hex (5/16-18)		320-1512-08	1	* 175 Amp (120/240V, 1 Phase)
7			Screw, Machine - Round Head		320-1518-08	ī	* 175 Amp (277/480V, 3 Phase)
	812-0165	4	$1/4-20 \times 4-1/2$ " For Breaker			_	(===, ====, ====,
			Marked *				EM SET ONLY
	812-0094	4	#8-32 x 3-5/8" For Breaker		320-1458-41	1	@ 60 Amp (347/600V, 3 Phase)
			Marked @		320-1458-25	1	@ 70 Amp (277/480V, 3 Phase)
	B13-0118	4	10-32 x 4-1/2" For Breaker		320-1458-27	1	90 Amp (220/380V, 3 Phase)
			Marked * - Begin Spec T		320-1458-27	1	@ 90 Amp (200/346V, 3 Phase)
	812-0157	4	$1/4-20 \times 1-3/4$ For Breaker		320-1458-31	i	@ 150 Amp (120/240V, 3 Phase)
			Marked * - Begin Spec T		320-1459-08	1	* 175 Amp (120/208V, 3 Phase)
8			Washer, Lock - Spring		320-1512-10	1	* 225 Amp (120/240V, 1 Phase)
	850-0040	4	1/4" For Breaker Marked *		320-1555-11	1	* 250 Ammp (120/240V, 1 Phase)
	850-0025	4	#8 For Breaker Marked ()		320-1555-07	1	* 150 Amp (120/240V, 3 Phase)
9			Washer, Flat		320-1555-08	1	* 175 Amp (120/208V, 3 Phase)
	526-0108	4	1/4" For Breaker Marked *		320-1555-09	1	* 200 Amp (120/240V, 3 Phase)
	526-0028	4	#8 For Breaker Marked @		320-1557-51	1	* 250 Amp (120/240V, 3 Phase)
	526-0008	4	#10 For Breaker Marked *		320-1466-25	1	@ 70 Amp (270/480V, 3 Phase)
	526-0048	4	#8 For Breaker Marked @			-	
10	301-9669	2	Panel, Box	* _	Parts used w	vith E	Breaker Marked *.
11	301-9668	1	Вох				Breaker Marked 0.



Labels, Paint, Thread Sealant

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	98-5262	2	Silkscreen - ONAN		98-5298	1	Silkscreen, Panel Front -
	98 0983	1	Silkscreen, Cil Drain				Vertical
	98-2235	2	Silkscreen, Ground		98-5299	1	Silkscreen, Panel Rear -
	98-1875	ì	Silkscreen, Rating (Gas Fuel)				Vertical
	98- 1638	1	Silkscreen, Warning		98-5387	2	Label, Danger
	98~2184	I.	Decal, Governor		98-2304	1	Silkscreen, Circuit Breaker
	98-5393	2	Label, Warning		98 5662	1	Silkscreen, Emergency Stop
	98-0961	1	Silkscreen, Water Level		98-3232	1	Silkscreen, Warning
	983384	ì	Silkscreen, Caution		98-5663	1	Silkscreen, Caution
	98 1003	1	Silkscreen, Water Drain		525-0305	1	Paint, Enamel - Green -
	98~5219	1	Silkscreen, Panel Front - Vertical				Non Metallic 13 Oz. Pressurized Can
	98-5220	1	Silkscreen, Panel Rear - Vertical		518-0601	1	Sealant, Thread (6 ml)



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800-0051	11	805-0019	89	812-0158	31	815-0203	73
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800-0051	41	805-0033	87	812-0165	99	815-0203	83
800-0051	43	805-0033	89	813-0097	79	815-0203	85
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815-0544	73	850-0025	49	850-0040	43	850-0050	41
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821-0009	82	850-0025	82	850-0040	53	850-0050	43
821-0010	31	850-0025	97	850-0040	79	850-0050	43
821-0010	33	850-0025	99	850-0040	85	850-0050	47
821-0010	35	850-0030	15	850-0040	85	850-0050	57
821-0010	57	850-0030	17	850-0040	85	850-0050	85
821-0010	67	850-0030	18	850-0040	87	850-0050	87
821-0010	71	850-0030	49	850-0040	87	850-0050	89
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821-0010	77	850-0030	65	850-0040	89	850-0055	5
821-0010	95	850-0030	65	850-0040	91	850-0055	5
821-0010	99	850-0030	65	850-0040	91	850-0055	7
821-0014	33	850-0030	69	850-0040	93	850-0055	17
821-0014	35	850-0030	69	850-0040	93	850-0055	23
821-0014	39	850-0030	69	850-0040	97	850-0055	27
821-0014	41	850-0030	71	850-0040	99	850-0055	29
821-0014	43	850-0030	73	850-0045	2	850-0055	37
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821-0017 821-0018	81 47	850-0040	7	850-0045	55	850-2008	3
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821-0018 821-0018	53 77	850-0040	10	850-0045	59	853-0003	65
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853-0008	69	860-0006	81	862-0015	47	870-0212	11
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Supplement 928-2002

Date: 04-15-02

Insert with-

Title: EK/EM Parts Manual

Number (Date): 928-0220 (09-93)

PURPOSE

This supplement adds replacement part numbers for 30EK Spec D, 37.5EM Spec W and 45EM Spec W generator sets.

SUPPLEMENT USE

The following pages have been updated to cover the latest Spec changes. Insert this supplement behind the front cover of your manual. Refer to the corresponding pages of your manual and write "IMPORTANT: REFER TO SUPPLEMENT". Certain Models may not incorporate all of the revised pages.

Cover Shows New Specs

Page 1 Air Cleaner

Pages 4–7 Engine Accessory Parts
Pages 13–27 Fuel System, Gasoline

Fuel System, Natural Gas Fuel System, LP Vapor Fuel System, LPG Liquid

Dual Fuel System, Natural Gas/LPG Vapor Auto Conversion Dual Fuel System, Natural Gas/LP Liquid Auto Conversion

Carburetor Assembly for Natural Gas/LPG Vapor Auto Conversion Carburetor Assembly for Natural Gas/LP Liquid Auto Conversion

Gas Converter Assembly

Pages 10–11 Governor
Pages 34–35 Radiator
Pages 61–62 Muffler

Pages 63–65 Wiring Harness, Engine to Control

Page 49 Coolant Heater
Page 76 Control Heater

Page 48 Low Coolant Level Switch

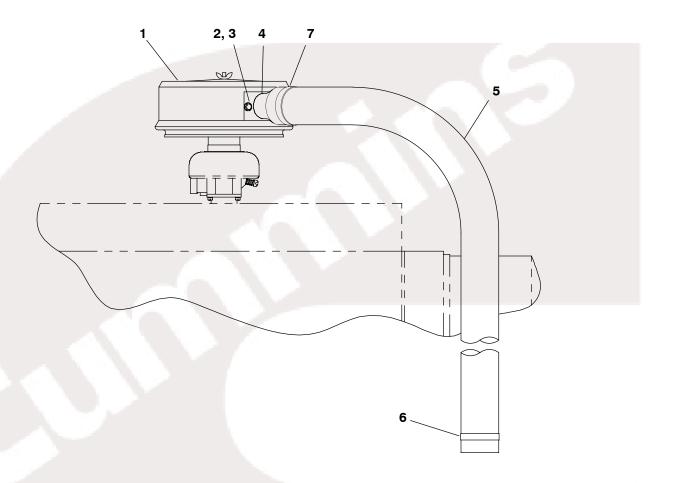
New Page Alarm Boards
New Page Audible Alarm

New Page Over/Under Voltage

Please keep this supplement with Parts Catalog 928–0220.

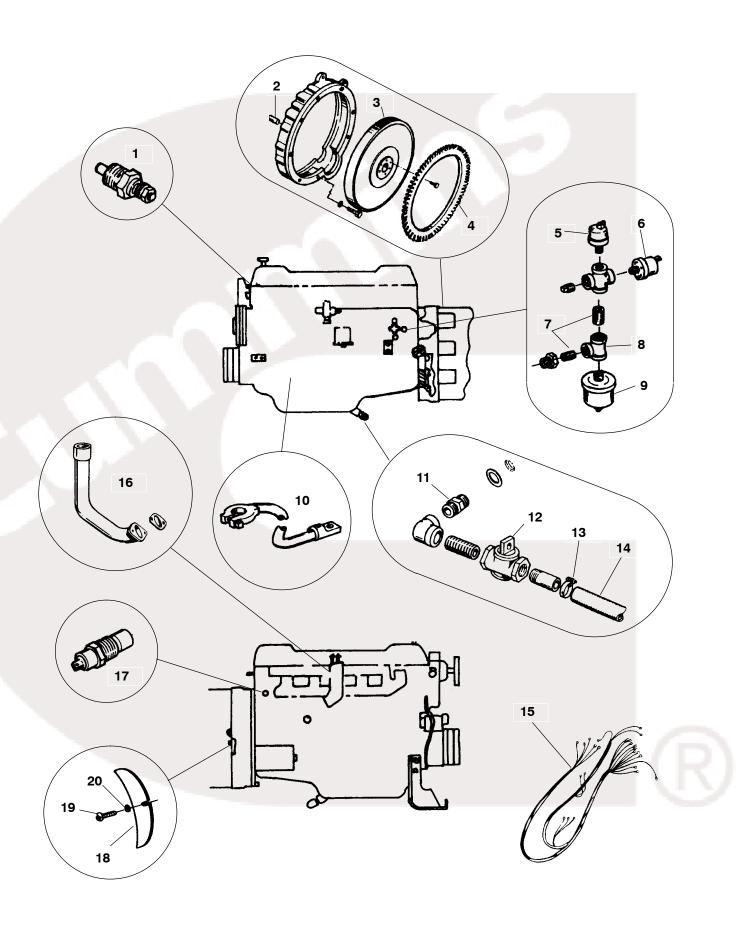


Air Cleaner



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
. 1	140-3058-02	2 1	Cleaner, Air	5	501-0596	1	Hose, Air
2	821-0008	2	Screw, Lock (1/4"-20)	6	503-1816	1	Clamp
3	870-0212	2	Nut, Lock (1/4"-20)	7	503-0354	1	Clamp, Hose
4	140–2664	1	Inlet, Air Cleaner				

Engine Accessory Parts

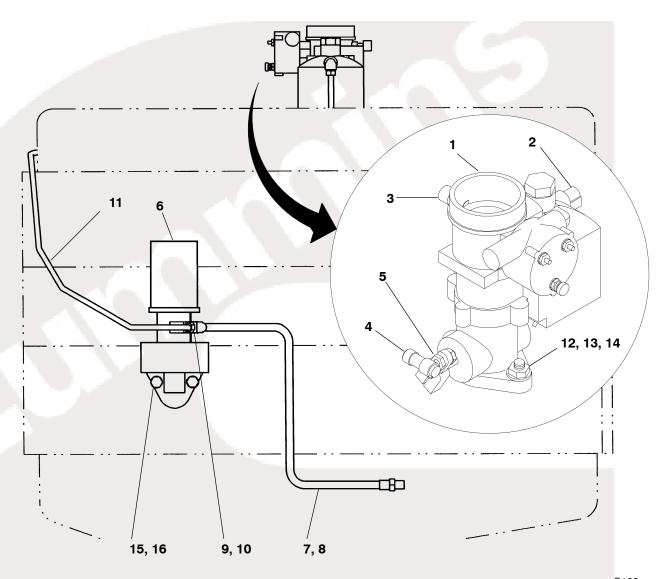


Engine Accessory Parts

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0318	1	Sender, Water Temperature	11	102-1463	1	Adapter, Pipe – Hex
			(E2)	12	504–0176	1	Valve, Shut–off (3/8 NPT)
	505-0060	1	Tee, Pipe	13	503-0131	1	Clamp, Hose
	505-0101	1	Nipple, Close (3/8")	14	503-1657	1	Hose, Rubber
	502-0943	1	Connector, Hose	15	166-0727	1	Harness, Wiring
2	516-0167	1	Pin, Alignment	16	155-1993	1	Tube, Exhaust
3	104–0719	1	Flywheel (Includes Ring		800-0315	2	Screw, Hex Head Cap
			Gear)				(7/16–14 x 1–3/4")
4	104-0723	1	Gear, Ring		526-0356	2	Washer, Flat (7/16")
5	309-0561-01	1	Switch, Oil Pressure –		850-0055	2	Washer, Lock (7/16")
			Pre-Alarm (Normally Closed)	17	309–0312	1	Switch, Thermostatic – Water S7 (Pre–Alarm)
6	309-0561-05	5 1	Switch, Oil Pressure	18	191-0773	1	Cover, Starter
			(Shut-down)	19	812-0077	1	Screw, Machine Round Head
7	505-0098	2	Nipple, Pipe – Close				(#8–32 x 3/8")
8	505-0059	1	Tee, Pipe (1/8 NPT)	20	850-0025	1	Washer, Lock Spring (#8)
9	193-0448	1	Sender, Oil Pressure (E1)				, , ,
10			Cable, Battery				
	416-1018	1	Positive (30-1/2")				
	416-0613	1	Negative (10")				



Gasoline Fuel System

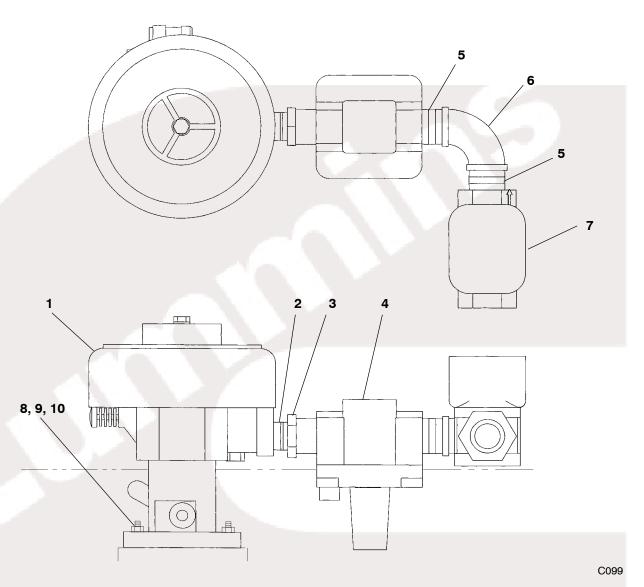


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REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	146-0706	1	Carburetor	10	502-0002	1	Elbow, Invt. Male
2	502-0002	1	Elbow, Invt. Male	11	149-1052	1	Line, Fuel
3	141-0372	1	Knob, Choke Shaft	12	141-0971	1	Gasket, Carburetor
4	150-0638	- 1	Joint, Ball	13	854-0020	2	Washer, Lock (3/8")
5	868-0001	1	Nut, Hex Jam(1/4"-28)	14	867-0031	2	Nut, Hex (3/8"-24)
6	149-2304	1	Pump, Fuel	15	850-0045	2	Washer, Lock (5/16")
7	501-0134	1	Line, Flex Fuel	16	800-0030	2	Screw, Hex Head Cap
8	503-0865	1	Clamp, Hose				(5/16–18 x 1–1/4")
9	502-0354	1	Adapter, Fuel Line				



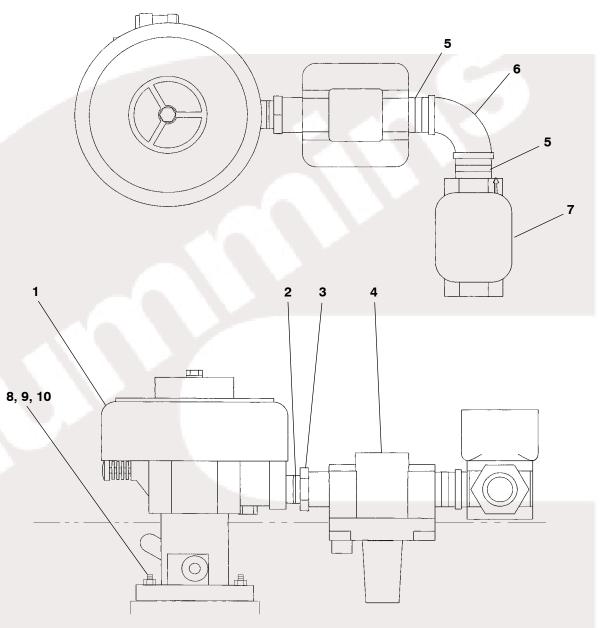
Fuel System Natural Gas



REF NO.		QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148–1066		Carburetor	5	505-0102	2	Nipple, Pipe
	150-0638	1	Joint, Ball	6	505-0132	1	Elbow, Pipe
	850-0040	1	Washer, Lock (1/4")	7	307-0312-0	1 1	Valve, Solenoid (12V)
	868-0001	1	Nut, Hex Jam (1/4"-28)	8	141-0971	1	Gasket, Carburetor
2	505-0100	1	Nipple, Pipe	9	854-0020	2	Washer, ET Lock (3/8")
3	505-0021	1	Bushing, Reducer	10	867-0031	2	Nut, Hex (3/8"-24)
4	148–0597	1	Regulator, Natural Gas				,



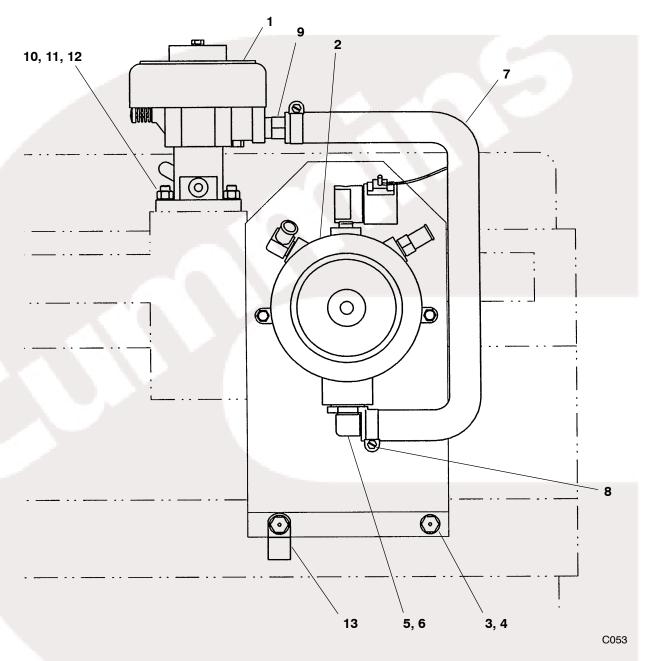
Fuel System LP Vapor



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1066		Carburetor	5	505-0102	2	Nipple, Pipe
	150-0638	1	Joint, Ball	6	505-0132	1	Elbow, Pipe
	850-0040	1	Washer, Lock (1/4")	7	307-0312-01	1	Valve, Solenoid (12V)
	868-0001	1	Nut, Hex Jam (1/4"-28)	8	141-0971	1	Gasket, Carburetor
2	505-0100	1	Nipple, Pipe	9	854-0020	2	Washer, ET Lock (3/8")
3	505-0021	1	Bushing, Reducer	10	867-0031	2	Nut, Hex (3/8"-24)
4	148–0637	1	Regulator, LP Vapor				



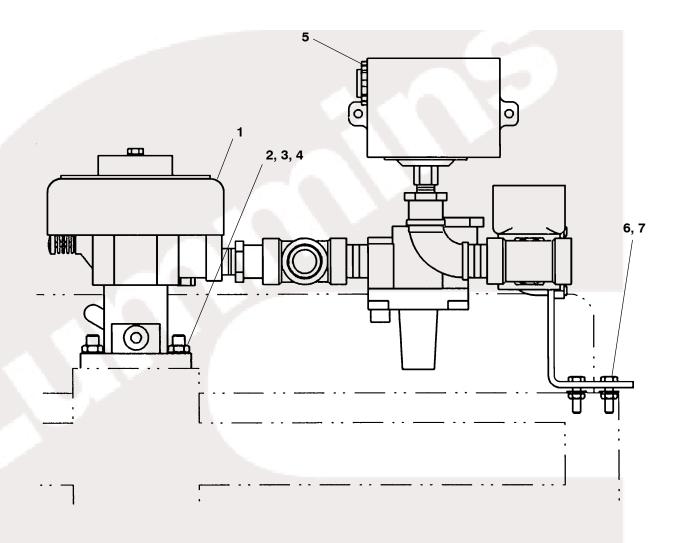
Fuel System LPG Liquid



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148–1066	1	Carburetor	5	505-0022	1	Bushing, Reducer
	150-0638	1	Joint, Ball	6	502-1030	1	Connector, Hose
	850-0040	1	Washer, Lock (1/4")	7	503-1565	1	Hose, LPG
	868-0001	1	Nut, Hex Jam (1/4"-28)	8	503-0180	2	Clamp, Hose
2	179–2728	1	Converter Assembly (See	9	502-1031	1	Connector, Hose
			Separate Page for Part	10	141-0971	1	Gasket, Carburetor
			Numbers)	11	854-0020	2	Washer, ET Lock (3/8")
3	850-0055	2	Washer, Lock (7/16")	12	867-0031	2	Nut, Hex (3/8"-24)
4	800–0069	2	Screw, Hex Head Cap (7/16–14 x 3/4")	13	332–3438	1	Clamp, Loop



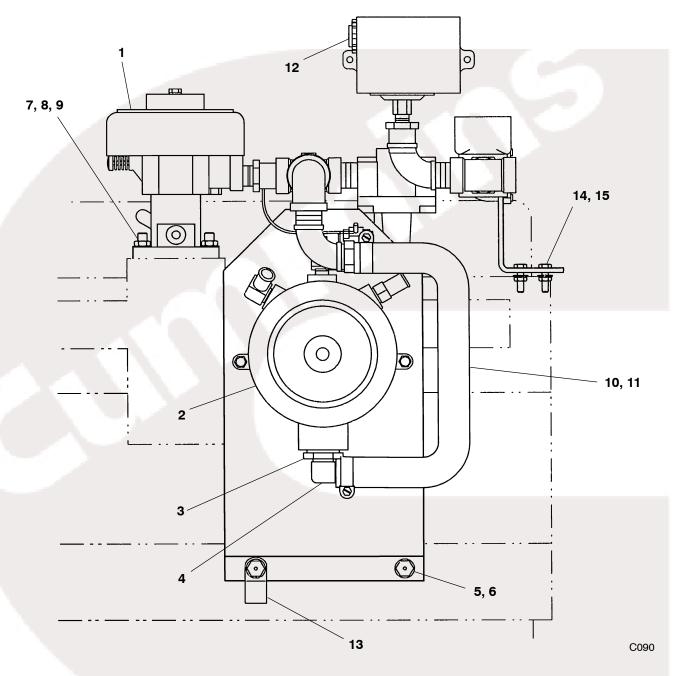
Dual Fuel System Natural Gas/LPG Vapor Auto Conversion



C065 **REF PART** QTY **PART REF PART** QTY **PART** NO. NO. **USED DESCRIPTION** NO. **USED DESCRIPTION** NO. 1 1 Carburetor (See Separate 331-0027 1 Connector, Romex Page for Part Numbers) 800-0007 2 Screw, Hex Head Cap (1/4-20 x 1") Gasket, Carburetor 2 141-0971 Washer, ET Lock (3/8") 870-0212 2 Nut, Lock Flange (1/4"-20) 854-0020 2 2 Nut, Hex (3/8"-24) 867-0031



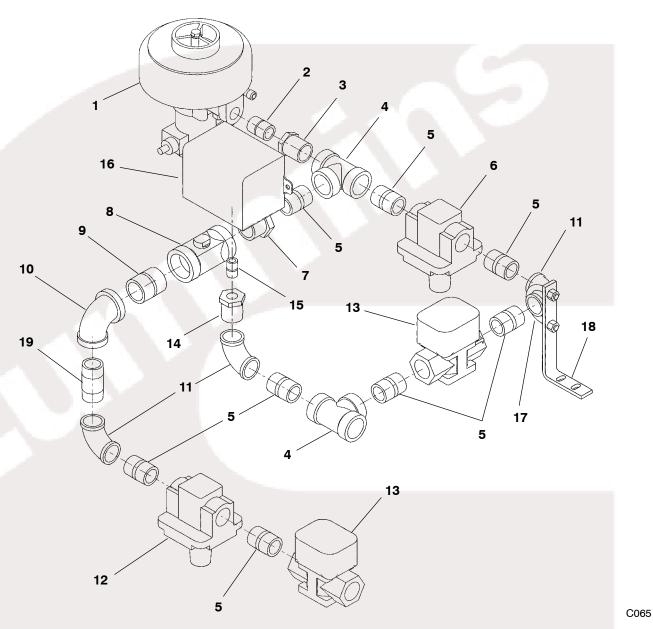
Dual Fuel System Natural Gas/LP Liquid Auto Conversion



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1		1	Carburetor (See Separate	7	141–0971	1	Gasket, Carburetor
			Page for Part Numbers)	8	854-0020	2	Washer, ET Lock (3/8")
2	179-2728	1	Converter Assembly (See	9	868-0003	2	Nut, Hex (3/8"-24)
			Separate Page for Part	10	503-1565	1	Hose, LPG
			Numbers)	11	503-0398	2	Clamp, Hose
3	505-0022	1	Bushing, Reducer	12	331-0027	1	Connector, Romex
4	502-1030	1	Connector, Hose	13	332-3438	1	Clamp, Loop
5	850-0055	2	Washer, Lock (7/16")	14	800-0007	2	Screw, Hex Head Cap
6	800-0069	2	Screw, Hex Head Cap				(1/4–20 x 1")
			(7/16–14 x 3/4")	15	870-0212	2	Nut, Lock Flange (1/4"-20)



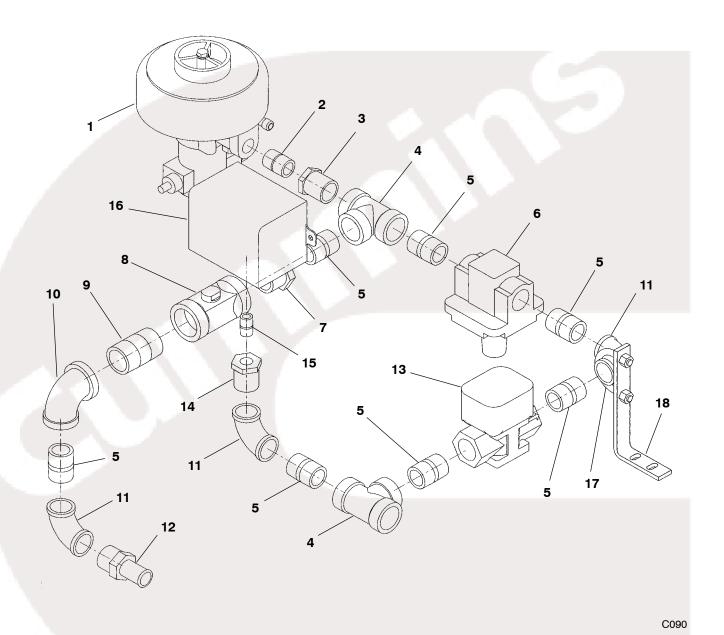
Carburetor Assembly for Dual Fuel System Natural Gas/LPG Vapor Auto Conversion



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148–1066	1	Carburetor	8	148-0626	1	Valve, Load Adjusting
	150-0638	1	Joint, Ball	9	505-0004	1	Nipple, Pipe
	850-0040	. 1	Washer, Lock (1/4")	10	505-0356	1	Elbow, Reducer – 90°
	868-0001	1	Nut, Hex Jam (1/4"-28)	11	505-0132	3	Elbow, Pipe
2	505-0100	1	Nipple, Pipe	12	148-0637	1	Regulator, LP Vapor
3	505-0021	1	Bushing, Reducer	13	307-0312-0	1 2	Valve, Solenoid
			(3/4NPT x 1/2"NPT)	14	505-0020	1	Bushing, Reducer
4	505-0166	2	Tee, (3/4"NPT)	15	505-0099	1	Nipple, Pipe
5	505-0102	8	Nipple, Close	16	148-0627	1	Switch, Pressure
			(3/4NPT x 1-3/8")	17	155-1015	1	Clamp, Muffler
6	148-0597	1	Regulator, Natural Gas	18	148-0994	1	Brace, Fuel System
7	505–0129	1	Bushing, Reducer (1"NPT x 3/4"NPT)	19	505–0085	1	Nipple, Pipe



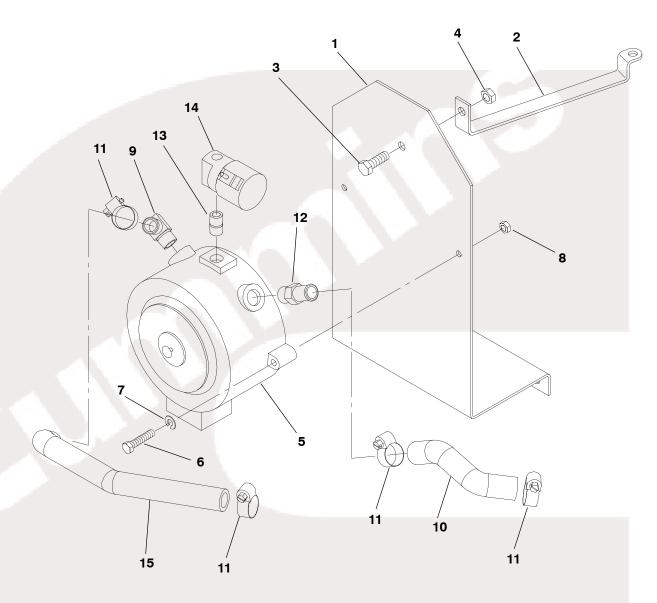
Carburetor Assembly for Dual Fuel System Natural Gas/LP Liquid Auto Conversion



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148–1066	1	Carburetor	8	148–0626	1	Valve, Load Adjusting
	150-0638	1	Joint, Ball	9	505-0107	1	Nipple, Pipe
	850-0040	1	Washer, Lock (1/4")	10	505-0356	1	Elbow, Reducer – 90°
	868-0001	1	Nut, Hex Jam (1/4"-28)	11	505-0132	3	Elbow, Pipe
2	505-0100	1	Nipple, Pipe	12	502-1236	1	Connector, Hose
3	505-0021	1	Bushing, Reducer	13	307-0312-01	1	Valve, Solenoid
			(3/4NPT x 1/2"NPT)	14	505-0020	1	Bushing, Reducer
4	505-0166	2	Tee, (3/4"NPT)	15	505-0099	1	Nipple, Pipe
5	505-0102	7	Nipple, Close	16	148-0627	1	Switch, Pressure
			(3/4NPT x 1-3/8")	17	155-1015	1	Clamp, Muffler
6	148-0597	1	Regulator, Natural Gas	18	148-0994	1	Brace, Fuel System
7	505–0129	1	Bushing, Reducer (1"NPT x 3/4"NPT)				•



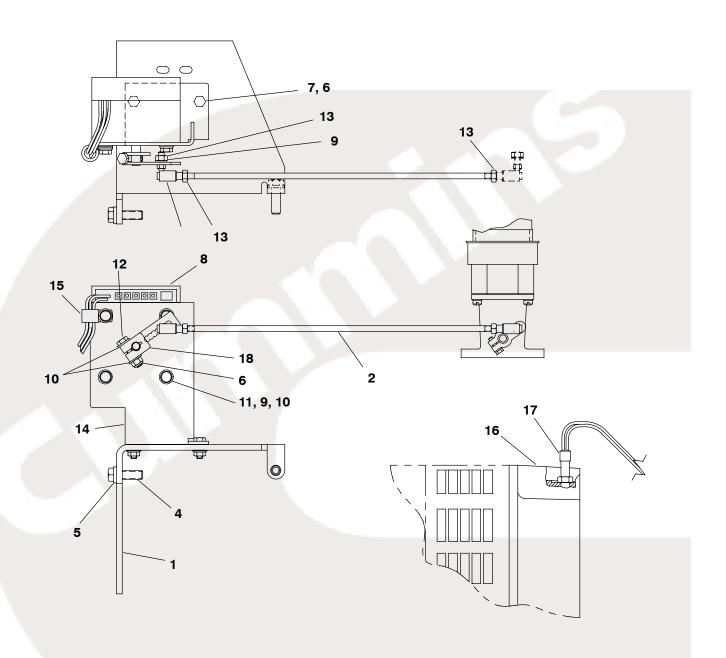
Gas Converter Assembly



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148–1053	1	Bracket, Converter – Mounting	9	502-0942	1	Elbow, 90
2	148-0604	1	Support, Converter Mounting	10	503-1988	1	Hose, Engine Coolant
3	800-0025	1	Screw, Hex Head Cap				(5/8 ID x 15-1/2" Long)
			(5/16–18 x 5/8")	11	503-0183	4	Clamp, Hose
4	821-0014	1	Nut, Whizlock (5/16-18 x 1/2")	12	502-0943	1	Connector, Hose (3/8"NPT)
5	148-0625	1	Converter Assembly, Gas	13	505-0099	1	Nipple, Pipe (1/4"NPT)
6	800-0009	2	Screw, Hex Head Cap	14	307-0268-01	1	Valve, Solenoid
			(1/4–20 x 1–1/2")	15	503-1988	1	Hose, Engine Coolant
7	850-0040	2	Washer, Lock (1/4")				(5/8 ID x 21–1/2" Long)
R	862_0001	2	Nut Hex (1/4"-20)				



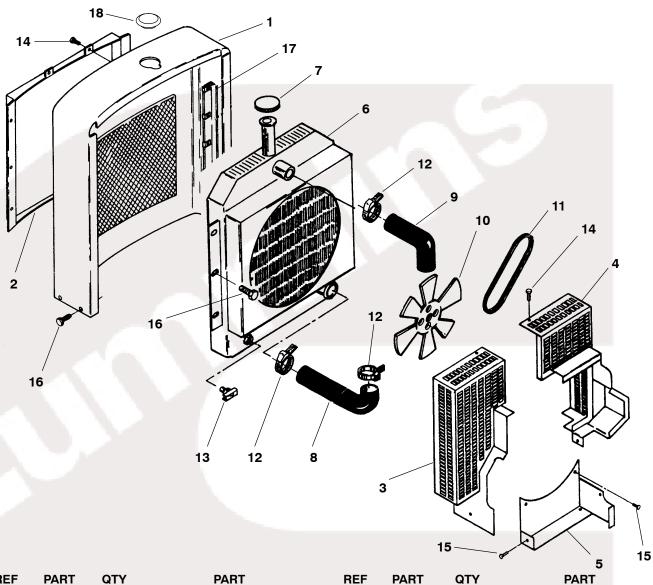
Governor



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NQ.	PART 850-10040	QTY UŞED	PART Washer, PESCRIP4TION
				10	526-0018	4	Washer, Flat (1/4")
1	150-2644	1	Bracket, Governor	11	800-0602	4	Screw, Hex Head Cap
2			Rod, Governor				(1/4–28 x 3/4")
	150-2616	1	14.5"	12	800-0008	1	Screw, Hex Head Cap
	150-2615	1	15.5"				(1/4-20 x 1-1/4")
3	150-0638	1	Joint, Ball	13	868-0001	3	Nut, Tappet (1/4"-28)
4	800-0051	2	Screw, Hex Head Cap	14	150-2614	1	Bracket, Governor
			(3/8–16 x 1–3/4")	15	332-1554	1	Clamp, Loop
5	850-0051	2	Washer, Lock (3/8")	16	231-0148	1	Adaptor, Generator
6	870-0212	2	Nut, Self-Lock (1/4"-20)	17	150-2651	1	Pick-up, Magnetic
7	800–0005	2	Screw, Hex Head Cap (1/4–20 x 3/4")	18	150–2620	1	Lever, Governor
8	150-2692-01	1	Governor				



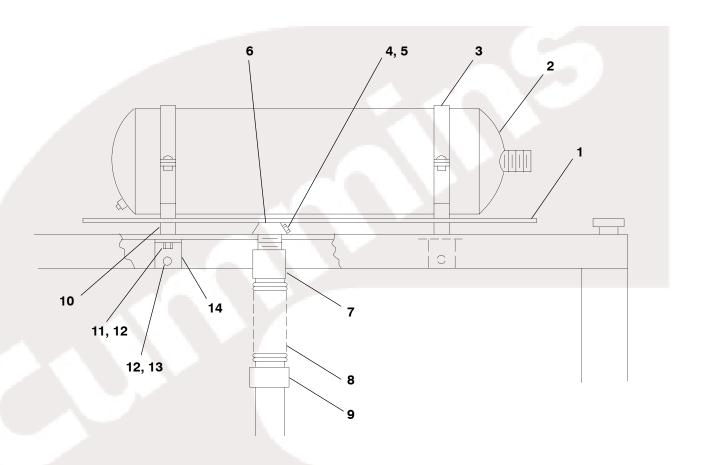
Radiator



REF NO.		QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405–3176	1	Panel, Front	12	503-0365	4	Clamp, Hose
2	405-1054	1	Flange, Air Duct	13	504-0003	1	Cock, Drain
3	130-4246	1	Guard, Belt – Right Side	14	821-5000-05	5 18	Screw, Cap Hex Head
4	130-4245	1	Guard, Belt – Left Side				(#10-32 x 1/2")
5	130-4252	1	Guard, Belt – Lower	15	821-5002-03	3 4	Screw, Lockhead
6	130-4361	1	Radiator (Includes Cap)				(1/4–20 x 1/2")
7	130-3929	1	Cap, Radiator	16	821-5003-0	1 14	Screw, Lockhead
8	503-0490	1	Hose, Radiator – Lower				(5/16–18 x 1/2")
9	503-0491	1	Hose, Radiator – Upper	17	870-0114	6	Nut, Retainer (5/16"-18)
10	130-1236	1	Fan	18	517-0245	1	Plug
11	511-0075	- 1	Belt. Drive				



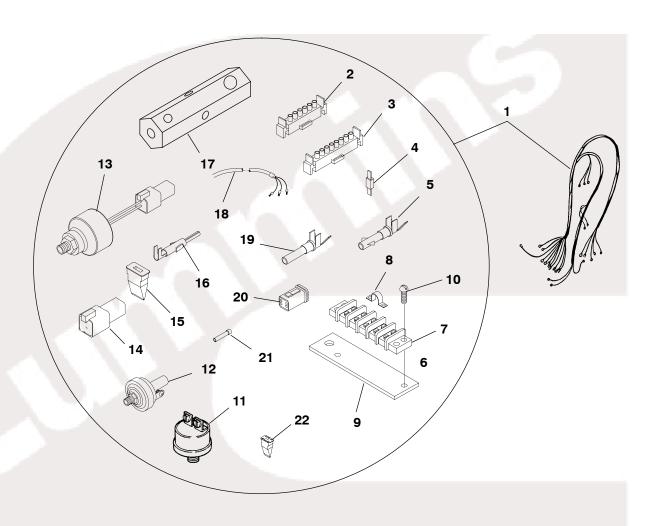
Muffler



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-0978	1	Shield, Heat	9	505-0454	1	Union (2")
2	155-0988	1	Muffler	10	155-1430	4	Spacer, Muffler
3	140-0649	2	Band Assembly	11	800-0037	4	Screw, Hex Head Cap
4	813-0105	2	Screw, Round Head Machine				(5/16–18 x 3")
			(10-32 x 1")	12	870-0048	10	Nut, Lock (5/16–18)
5	870-0188	2	Nut, Lock (10-32)	13	800-0026	6	Screw, Hex Head Cap
6	155-1420	1	Shield, Rain				(5/16–18 x 3/4")
7	505-0203	1	Coupling (2")	14	155-3000	2	Support, Muffler
8	155–1593	1	Tube Assembly, Exhaust				



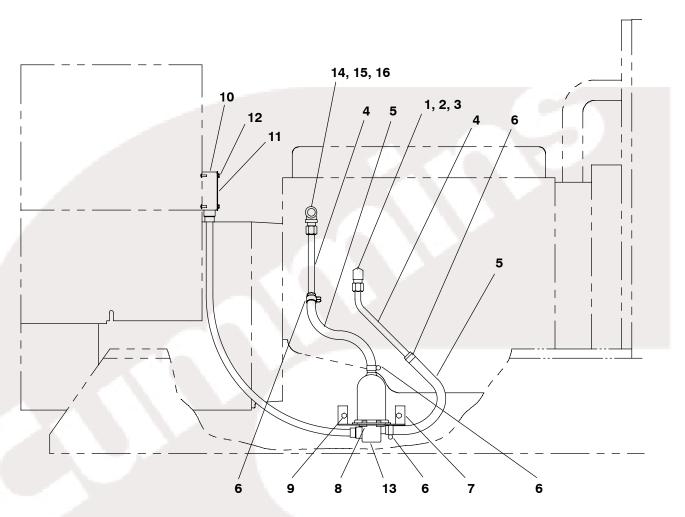
Wiring Harness Engine to Control



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338–3322	1	Harness, Wiring – Engine to Control	11	309-0641-03	1	Switch, Oil Pressure (Closes at 14 lbs. Descending) (S1)
2	323–1304	1	Housing, Connector (6 Place) (J2)	12	309–0641–07	1	Switch, Oil Pressure (Closes at 20 lbs. Descending)
3	323-1306	1	Housing, Connector (8 Place)				(S5-Pre-Alarm)
			(J1)	13	193–0448	1	Sender, Oil Pressure (E1)
4	357–0030	2	Rectifier, Silicon (CR1)				(Includes Parts Marked #)
5	323-1200	A/R	Socket, Contact	14	323-1549	1	#Connector, Receptacle – 4
6	332-3276-01	1	Bracket, Mounting – Terminal				Place
			(Includes Parts Marked *)	15	323-1548	1	#Wedge, Receptacle
7	332-0604	2	*Block, Terminal (5 Place)	16	323-1492	4	#Socket, Contact
8	332-1043	8	*Jumper	17	120-1312-02	1	Manifold, Oil Pressure
9			*Bracket, Mounting	18	166-0853	1	Harness, Ignition
	319-2006-01	1	Marked "26" (T26)	19	323-1492	A/R	Socket, Contact
	319-2006-02	2 1	Marked "GND" (GND-ENG)	20	323-1546	1	Plug, Connector – 4 Place
10	815-0538	4	*Screw, Machine Round Head	21	323-1591	1	Plug, Seal
			W/IT (#8–32 x 1/2")	22	323-1548	1	Wedge, Plug (4 Pin)



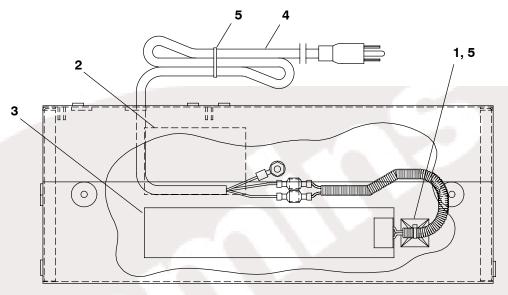
Coolant Heater



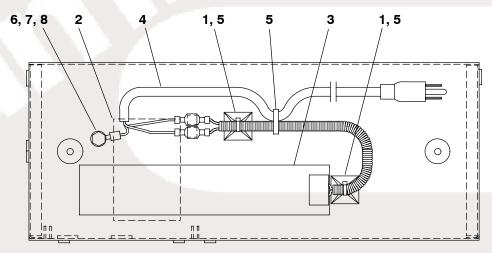
REF		QTY	PART	REF	PART	QTY	PART
NO.	NO.	USED	DESCRIPTION	NO.	NO.	USED	DESCRIPTION
1	505-0099	1	Nipple, Close (1/4 x 7/8")	10	319–2407	1	Box, Extension
2	505-0018	1	Bushing, Reducer (1/2 x 1/4")	11	319-2408	1	Cover, Extension
3	502-1256	1	Elbow, Connector	12	815-0652	2	Screw, Hex Head Slot
4	130-4281	2	Tube, Heater				(10-32 x 1/2")
5	503-1988	A/R	Hose, Coolant – High Temp.	13	333-0568-0	1 1	Heater, Engine Coolant 120V
6	503-0183	4	Clamp, Hose	14	505-0101	1	Nipple, Close (3/4")
7	148-1038	1	Bracket, Coolant Heater	15	505-0060	1	Tee, Pipe (3/8")
8	821–0010	2	Screw, Hex Head (1/4–20 x 1/2")	16	502–1215	1	Connector, Male
9	821–0014	2	Screw, Hex Head (5/16–18 x 1/2")				



Control Heater



Inside Floor Installation

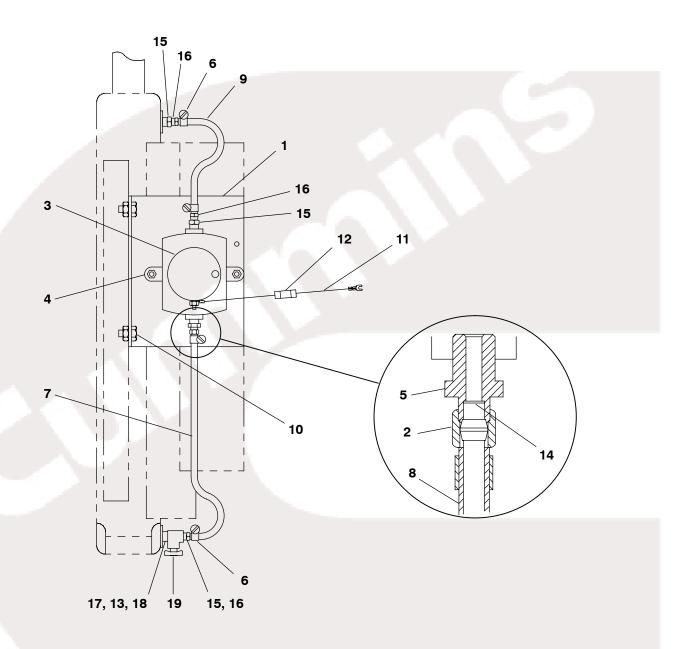


Outside Floor Installation

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2420	2	Mount, Cable Tie	5	332-0942	3	Tie, Cable
2	098-6195	1	Label, Caution	6	800-0024	1	Screw, Hex Head Cap
3	300-4515-01	1	Heater Assembly, Control				(5/16–18 x 3/4")
			(120V)	7	870-0257	1	Nut, Hex (5/16-18)
4	335–0173	1	Cable Assembly, Control Heater	8	856–0008	2	Washer, EIT (5/16")



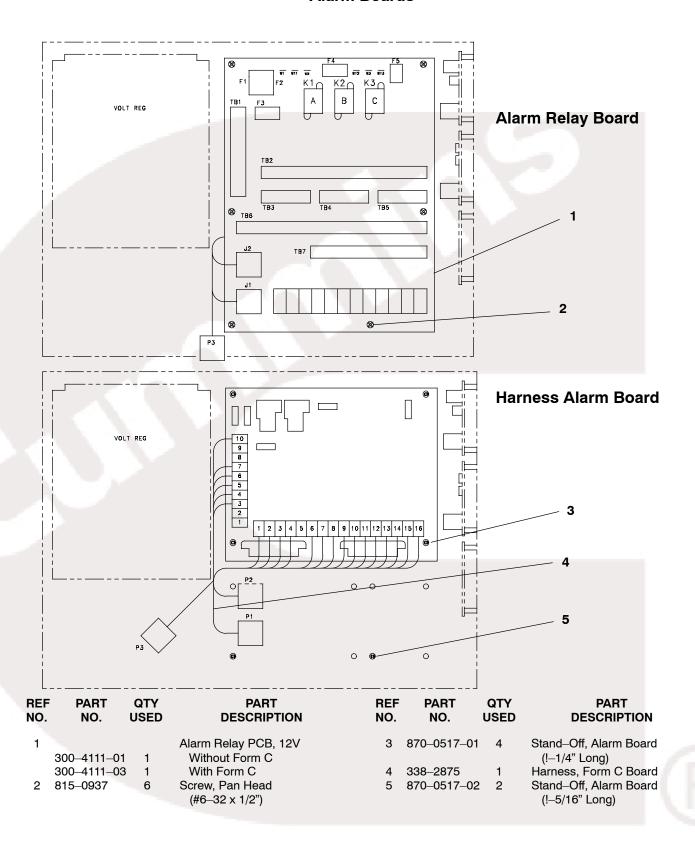
Low Coolant Level Switch



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-4659	1	Plate, Low Level Switch	11	338–3615	1	Harness, Low Coolant Level
2	502-0801	1	Connector, Hose - Male 1/4"				(Includes Diode)
3	193-0329	1	Switch. Coolant Level	12	357-0030	1	Diode (Included in Harness)
4	870-0212	2	Nut, Lock Head (1/4"-20)	13	502-0156	1	Elbow, Street Pipe
5	502-0802	1	Bushing, Reducer (1/2 x 1/4")	14	526-0110	1	Washer, Copper
6	503-0685	4	Clamp, Hose	15	502-0029	3	Bushing, Reducer
7	503-1418	1	Hose, 1/4" ID, 18" Long	16	502-0395	3	Connector, Hose
8	093-0065	2	Tubing, Copper 2" Long				(1/8 NPT x 3/8" Hose)
9	503-1418	1	Hose, 1/4" ID, 25" Long	17	505-0017	1	Bushing, Reducer
10	821-0016	2	Screw, Lock Head	18	502-0164	1	Tee, Street
			(5/16–18 x 3/4")	19	504-0003	1	Valve, Drain

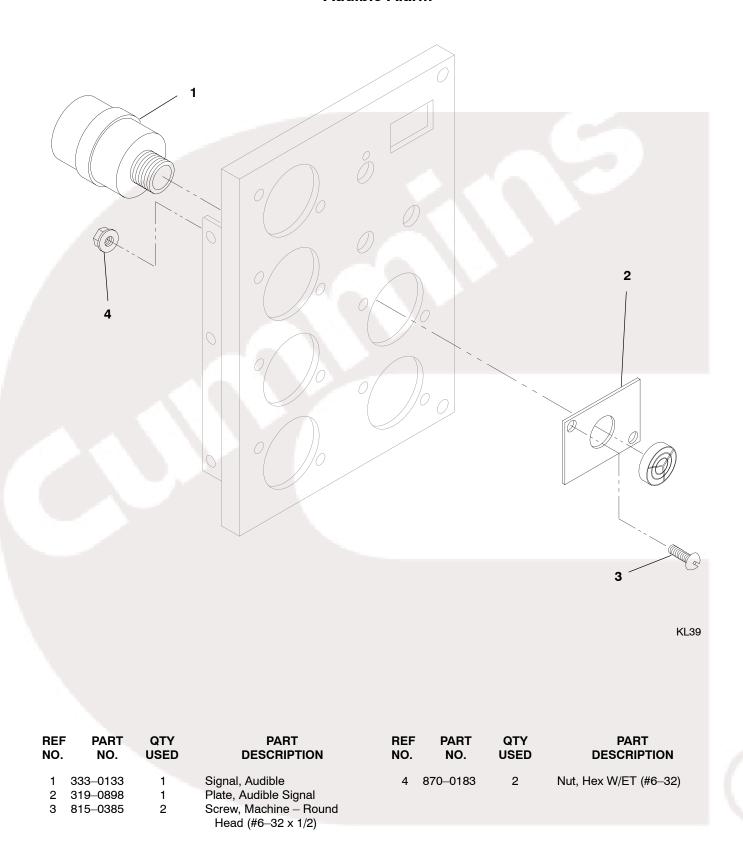


Alarm Boards



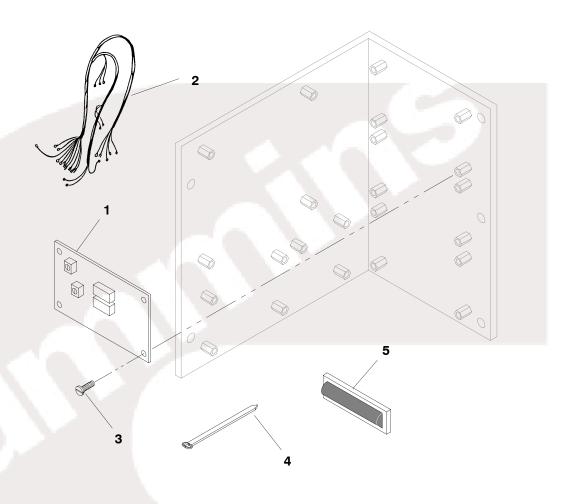


Audible Alarm





Over/Under Voltage



REF	PART	QTY	PART	REF	PART	QTY	PART
NO.	NO.	USED	DESCRIPTION	NO.	NO.	USED	DESCRIPTION
1 2 3	307–2868 338–3366 815–0937	1 1 4	Relay, Over/Under Voltage Harness, Over/Under Voltage Screw, Pan Head – Crossed Recessed Thread Forming (6–32 x 1/2)		332–1445 322–0431–03	A/R 3 1	Tie, Cable Lamp, Indicating





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