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**MCGRAW-EDISON**

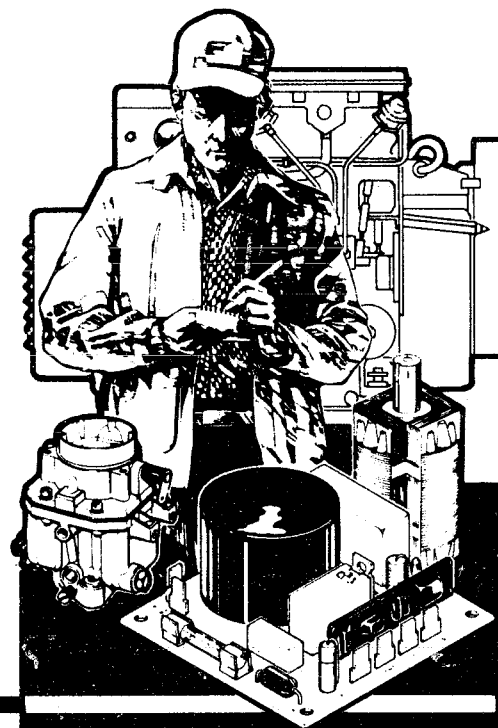
**Onan**

# **Parts Manual**

RDJC

LRDJC

**GenSet**



**Onan Service Parts**

974-0221

RDJC (SPEC A-AD)

LRDJC (SPEC AA-AC)

1-84

**MCGRAW-EDISON**

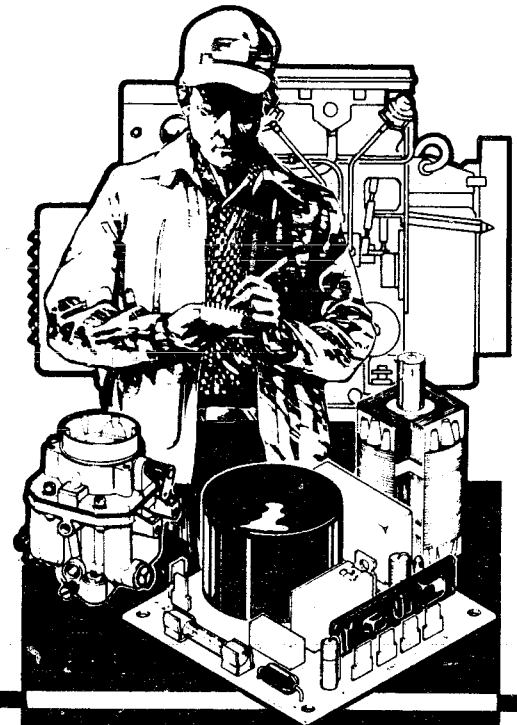
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# GENERAL INFORMATION

## INSTRUCTIONS FOR ORDERING REPAIR PARTS

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

To avoid errors or delay in filling your parts order, please furnish all information requested.

Always refer to the nameplate on your unit.

1. Always give the MODEL, SPEC NO. and SERIAL NO.

The diagram shows a rectangular nameplate with rounded corners. At the top center, the text "McGRAW-EDISON" is printed in a bold, sans-serif font. Below this, the "Onan" logo is displayed in a large, stylized, bold font. Underneath the logo is a long, empty rectangular box. Below this box, the text "MODEL AND SPEC NO." is printed in a bold, sans-serif font. Further down is another empty rectangular box. To the left of this box, the text "SERIAL NO." is printed in a bold, sans-serif font. The nameplate is flanked by two small circles at the top. A small number "M-1149" is printed at the bottom right corner of the nameplate.

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

2. Do not order by reference number; always use part number and description.
3. Give the part number, description and quantity needed of each item. If an older part cannot be identified, return the part prepaid to your dealer or nearest Onan Parts and Service Center. Print your name and address plainly on the package. Write a letter to the same address stating the reason for returning the part.
4. State definite shipping instructions. Any claim for loss or damage to your unit in transit should be filed promptly against the transportation company making the delivery. Shipments are complete unless the packing list indicates items are back ordered.

Prices are purposely omitted from this Parts Manual due to the confusion resulting from fluctuating costs, import duties, sales taxes, exchange rates, etc.

For current parts prices, consult your Onan Dealer, Distributor or Parts and Service Center.

"En esta lista de partes los precios se omiten de proposito, ya que bastante confusion resulto de fluctuaciones de los precios, derechos aduanales, impuestos de venta, cambios extrajeros, etc."

Consiga los precios vigentes de su distribuidor de productos "ONAN."

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## INTRODUCTION

This catalog applies to RDJC and LRDJC Generator Sets as listed in the Generator Set Data Table. The RDJC model designation shown began during 1969. Previously, the model designations used a zero in place of the decimal in the kilowatt rating. (Example: 12.5 RDJC was formerly 12RDJC and 15.0RDJC was formerly 15RDJC.) Parts are arranged in groups of related items and each illustrated part is identified by a reference number corresponding to the same reference number in the parts list. Unless otherwise mentioned in the description, parts are interchangeable between models. Parts illustrations are typical. Using the model and specification number from your generator set nameplate, select parts that apply to your set. Right and left sides are determined by *facing* the engine end (front) of the set.

**NOTE:** *In prior issues of this parts catalog RDJC Radiator Cooled Sets were designated by Parts Key Number 1 and City Water Cooled Sets were designated by Parts Key Number 2 in the Generator Set Data table. In this issue these Parts Key Numbers are no longer used. Instead, replacement parts for the cooling systems for Radiator Cooled Sets can be found in the Standard Parts Section and replacement parts for City Water Cooled Sets can be found in the Optional Parts Section.*

## GENERATOR SET DATA TABLE

MODEL AND SPECIFICATION NUMBER	ELECTRICAL DATA				
	WATTS	VOLTS	HERTZ	WIRE	PHASE
12.5RDJC-53CR/*	12500	120/240	50	**	1
12.5RDJC-53R/*	12500	120/240	50	3	1
12.5RDJC-57R/*	12500	220/380	50	4	3
12.5RDJC-57XR/*	12500	240/416	50	4	3
12.5RDJC-58R/*	12500	127/220	50	4	3
12.5RDJC-518R/*	12500	*	50	12	3
15.0RDJC-3CR/*	15000	120/240	60	**	1
15.0RDJC-3R/*	15000	120/240	60	3	1
15.0RDJC-4R/*	15000	120/208	60	4	3
15.0RDJC-4XR/*	15000	277/480	60	4	3
15.0RDJC-5DR/*	15000	120/240	60	4	3
15.0RDJC-7R/*	15000	220/380	60	4	3
15.0RDJC-7XR/*	15000	240/416	60	4	3
15.0RDJC-8R/*	15000	127/220	60	4	3
15.0RDJC-9XR/*	15000	347/600	60	4	3
15.0RDJC-18R/*	15000	*	60	12	3
8.6LRDJC-57XR/*	8600	240/416	50	4	3
8.6LRDJC-518R/*	8600	*	50	12	3
11.3LRDJC-18R/*	11300	*	60	12	3

These LRDJC Generator Sets were manufactured beginning with Specification Letters AA. For replacement parts refer first to the Special Parts Section for LRDJC Generator Sets. Parts not in that section refer to the Standard or Optional Parts Section. When referring to those sections reference to Specification Letters or Voltage also applies to these sets.

### Models listed below are Pennsylvania Approved Sets

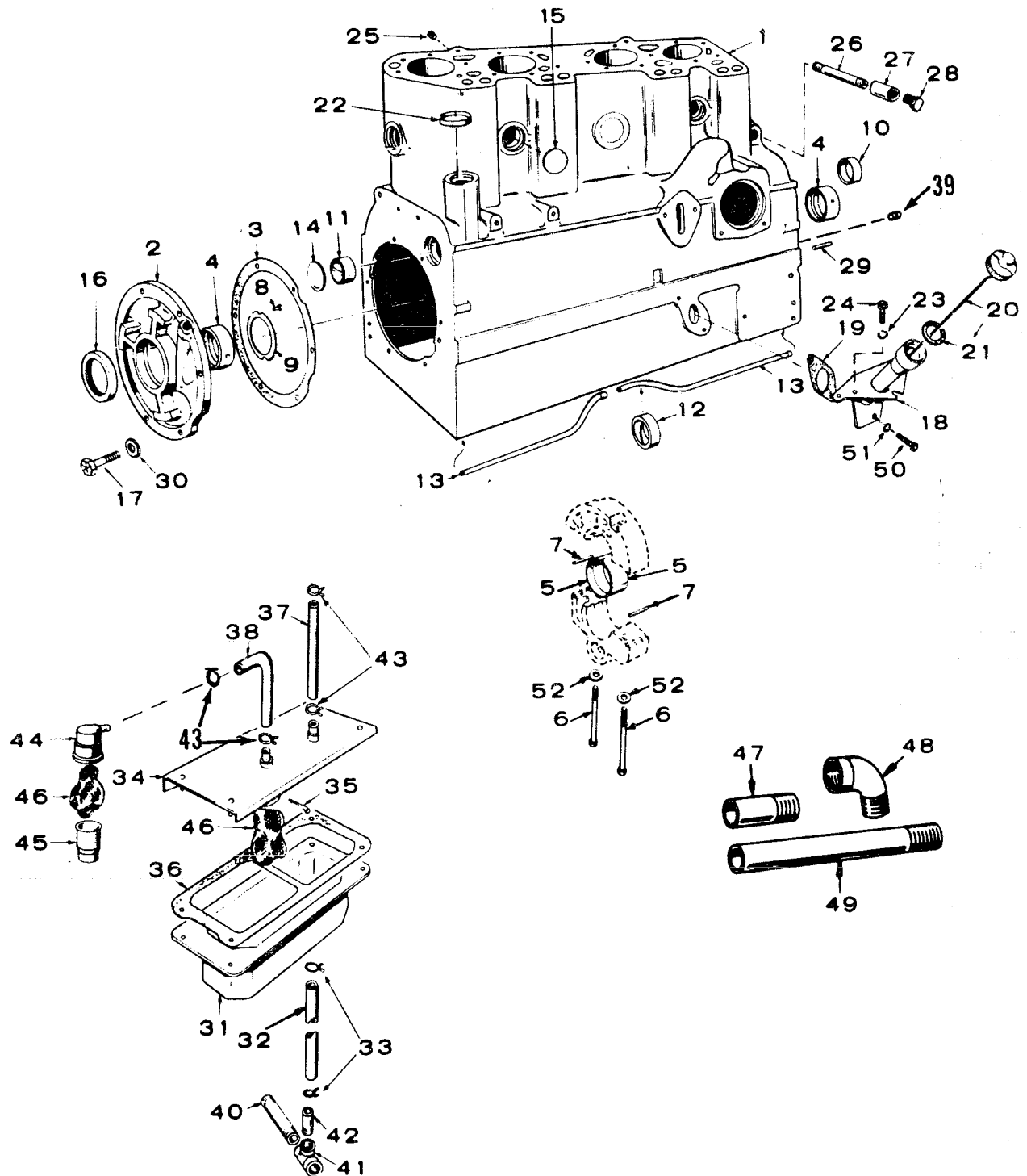
13.0RDJC-3R50/*	13000	120/240	60	3	1
13.0RDJC-4R50/*	13000	120/208	60	4	3
13.0RDJC-4XR50/*	13000	277/480	60	4	3
13.0RDJC-18R50/*	13000	*	60	12	3
15.0RDJC-3R50/*	15000	120/240	60	3	1
15.0RDJC-3CR50/*	15000	120/240	60	**	1
15.0RDJC-4R50/*	15000	120/208	60	4	3
15.0RDJC-4XR50/*	15000	277/480	60	4	3
15.0RDJC-5DR50/*	15000	120/240	60	4	3
15.0RDJC-18R50/*	15000	*	60	12	3

- \* - The diagonal line (/) in the model and specification number separates generator set characteristics from the specification number and letter(s). The specification number denotes customer requested options or deviations from a standard (1A, 1B, 1AA, 1AB, etc.) model. The specification letter advances (A to B, B to C, . . . Z to AA, AA to AB, etc.) with major manufacturing changes.
- \*\* - These generators have four load wires which are reconnectable for 120 volt, 2 wire service or 240 volt, 2 wire service or 120/240 volt, 3 wire service. NOTE: Previously, the C designation (3CR, 53CR, etc.) was not used in the model.
- ★ - Broad range reconnectable sets, refer to connection diagram inside outlet box cover.

## STANDARD PARTS SECTION

This section contains standard parts applicable to models listed in the generator set data table.

# CYLINDER BLOCK

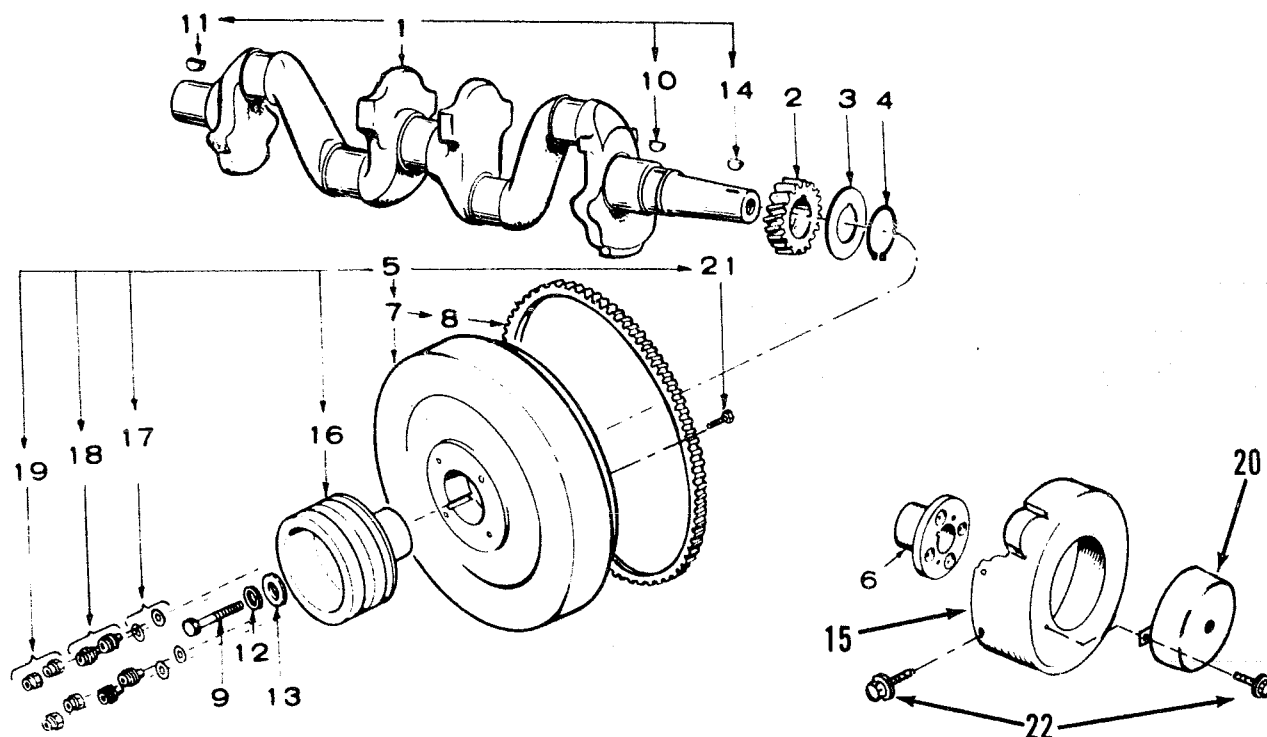


# CYLINDER BLOCK

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	BLOCK ASSEMBLY, CYLINDER (Includes Tappets)			26	505-0449	1	Nipple, Pipe (1/4"x 6") Water Drain
	110-1407	1	Radiator Cooled Sets (Includes Parts Marked *)	27	505-0027	1	Coupling, Pipe (1/4") Water Drain
	110-3216	1	City Water Cooled Sets (Includes Parts Marked #)	28	502-0153	1	Plug, Pipe (Brass) 1/4" Hex Head - Water Drain
2	101-0337	1	*#Plate, Rear Bearing	29	516-0141	2	*#Pin, Gearcase Locating
3	101-0386	1	*#Gasket and Shim Kit, Rear Bearing Plate - Includes Bearing Plate Mounting Washers	30	526-0245	6	*#Washer, Bearing Plate (Special)
4	BEARING, MAIN - FRONT AND REAR			31	123-1061	1	Damper, Breather Pulsation - Spec A
	101-0359	2	*#Standard	32	503-1194	1	Hose, Overflow - Spec S
	101-0359-02	2	.002" Undersize	33	503-0197	2	Clamp, Overflow Hose - Spec S
	101-0359-10	2	.010" Undersize	34	123-1045	1	Cover, Breather Pulsation Damper - Spec S
	101-0359-20	2	.020" Undersize	35	516-0177	1	Pin, Cotter - Spec S
	101-0359-30	2	.030" Undersize	36	123-1049	1	Gasket, Cover - Spec S
5	BEARING HALF, MAIN - CENTER			37	503-1274	1	Hose, Cover to Manifold - Spec S
	101-0361	2	*#Standard	38	503-0562	1	Hose, Cover to Breather Cap - Spec S
	101-0361-02	2	.002" Undersize	39	SCREW, SET - SOCKET HEAD 3/8-16 x 5/16")		
	101-0361-10	2	.010" Undersize		803-0067	4	City Water Cooled Sets Begin Spec AD
	101-0361-20	2	.020" Undersize		803-0067	1	#Sets Without Heat Exchanger
	101-0361-30	2	.030" Undersize	40	505-0690	1	Sets With Heat Exchanger
6	101-0342	2	*#Bolt, Center Bearing Housing			1	Nipple, Close - Pipe (1/2") Spec S
7	516-0149	2	Pin, Center Bearing Housing	41	505-0682	1	Tee, Pipe (1/2") Spec S
8	516-0072	4	Screw, Drive - Crankshaft Thrust Washer	42	505-0674	1	Nipple, Half - Pipe (1/2" x 2-1/2") - Spec S
9	104-0420	2	*#Washer, Crankshaft Thrust	43	503-0170	4	Clamp, Hose - Spec S
10	101-0363	1	*#Bearing, Camshaft - Front	44	123-0787	1	Cap, Breather Tube - Spec A Through S
11	101-0365	1	*#Bearing, Camshaft - Rear	45	123-0645	1	*#Tube, Breather - Spec A Through S
12	101-0364	1	*#Bearing, Camshaft - Center	46	123-0865	2	Filter, Breather Tube and Pulsation Damper - Spec S (1 Used Spec A Through R)
13	*#TUBE, CRANKCASE OIL			47	505-0135	1	Nipple, Half - Pipe (3/8" x 1-1/2") Radiator Cooled Sets With Water Jacket Heater
	120-0586	1	Front	48	505-0039	1	Elbow, Pipe (3/8 - 90°) Radiator Cooled Sets With Water Jacket Heater
	120-0585	1	Rear	49	505-0273	1	Nipple, Half - Pipe (3/8" x 4") Radiator Cooled Sets With Water Jacket Heater
14	517-0053	1	*#Plug, Expansion - Rear Camshaft Opening	50	800-0026	2	Screw, Cap - Hex Head (5/16-18 x 3/4")
15	PLUG, EXPANSION - CYLINDER BLOCK 1-7/16"			51	850-0045	2	Washer, Lock - Spring (5/16")
	517-0059	3	* Radiator Cooled Sets	52	526-0035	2	*#Washer, Flat - (17/32" ID x 7/8" OD x 1/8" Thk)
	517-0059	4	# City Water Cooled Sets				
	517-0096	2	*#1-9/16"				
	517-0097	1	*#1-3/4"				
16	509-0086	1	Seal, Crankshaft - Rear				
17	805-0019	6	*#Bolt, Rear Bearing Plate (Special)				
18	TUBE, OIL FILL						
	123-0681	1	Spec A Through R				
	123-1086	1	Begin Spec S				
19	123-0667	1	Gasket, Oil Fill				
20	CAP AND INDICATOR						
	123-0698	1	Spec A Through R				
	123-1056	1	Begin Spec S				
21	123-0191	1	Gasket, Cap				
22	517-0103	1	*#Plug, Core Hole - Begin Spec T				
23	850-0045	3	Washer, Lock - Spring (5/16")				
24	800-0026	3	Screw, Cap - Hex Head (5/16-18 x 3/4")				
25	505-0266	2	Plug, Pipe (3/8" - Square Countersunk) Radiator Cooled Sets Without Water Jacket Heater				

\* - Parts Included in 110-1407 Cylinder Block Assembly  
# - Parts Included in 110-3216 CYLINDER Block Assembly

## CRANKSHAFT AND FLYWHEEL

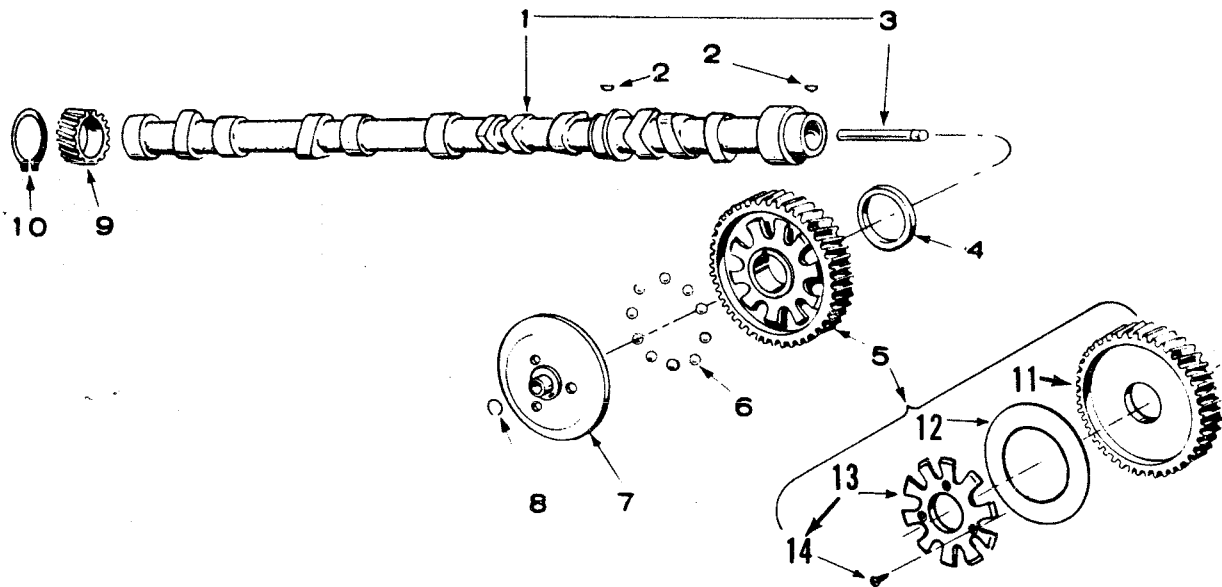


CT-1050a

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	104-1361	1	Crankshaft Kit (Includes All Keys)	14	515-0153	1	Key - Flywheel to Crankshaft
2	104-0418	1	Gear, Crankshaft	15	104-0510	1	Guard, Flywheel - City Water Cooled Sets
3	104-0416	1	Washer, Retainer	16	HUB AND PULLEY, FLYWHEEL		
4	518-0188	1	Ring, Lock		104-0957	1	*Spec A Through AB
5	FLYWHEEL ASSEMBLY				104-1121	1	+Begin Spec AC
	104-0548	1	<b>Radiator Cooled Sets</b> Spec A Through AB (Includes Parts Marked *)		104-0957	1	*City Water Cooled Sets With Heat Exchanger
	104-1129	1	<b>City Water Cooled Sets</b> Begin Spec AC (Includes Parts Marked +)	17	WASHER, FLAT - Hub to Flywheel (Special)		
	104-0555	1	Sets Without Heat Exchanger (Includes Parts Marked #)		526-0187	4	#City Water Cooled Sets Without Heat Exchanger
	104-0548	1	Sets With Heat Exchanger (Includes Parts Marked *)		526-0273	4	*+Radiator Cooled Sets and City Water Cooled Sets With Heat Exchanger
6	134-1401	1	#Hub, Flywheel - City Water Cooled Sets Without Heat Exchanger	18	104-0543	4	*+Spacer and Washer
7	104-0547	1	*+Flywheel (Includes Ring Gear)	19	870-0352	4	*+Nut, Locking (Special)
8	104-0423	1	*+Gear, Ring	20	104-0594	1	Cover, Flywheel Guard - City Water Cooled Sets Without Heat Exchanger
9	800-0500	1	Screw, Flywheel Mounting (Special)	21	801-0054	4	*+Screw, Cap - Hex Head (3/8-24 x 2")
10	515-0001	1	Key - Crankshaft to Gear	22	SCREW, LOCKING HEAD FLANGE (1/4-20 x 1/2")		
11	515-0006	1	Key - Fan to Crankshaft		821-0010	3	Cover Mounting
12	850-0055	1	Washer, Lock - Spring (7/16")		821-0010	5	Guard Mounting
13	526-0185	1	Washer, Flat (15/32" ID x 1-1/2" OD x 3/8" Thk)				

\* - Parts Included in 104-0548 Flywheel Assembly.  
+ - Parts Included in 104-1129 Flywheel Assembly.  
# - Parts Included in 104-0555 Flywheel Assembly.

# CAMSHAFT

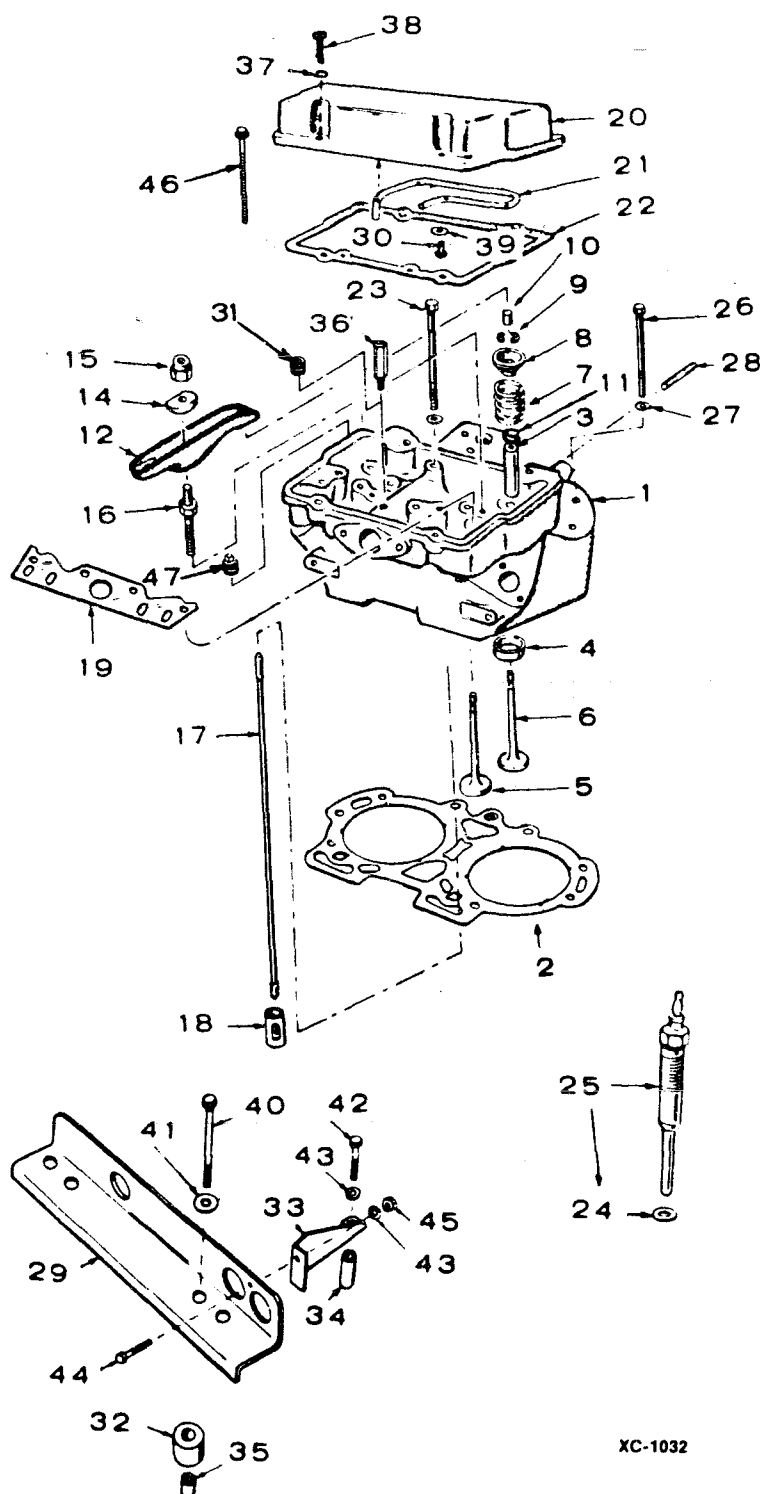


C-1029

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	CAMSHAFT (Includes Center Pin)		
	105-0240	1	Spec A through N
	105-0274	1	Begin Spec P
2	515-0001	2	Key - Camshaft Gear and Injection Pump
3	150-0075	1	Pin, Camshaft Center
4	105-0205	1	Washer, Thrust
5	105-0218	1	Gear Assembly, Camshaft (Includes Parts Marked *)
6	510-0046	10	Flyball - Governor
7	150-0775	1	Cup, Governor
8	150-0078	1	Ring, Center Pin
9	147-0142	1	Gear, Injection Pump Drive
10	518-0195	1	Ring, Injection Pump Drive Gear
11	105-0465	1	*#Gear, Camshaft
12	150-0773	1	*#Plate, Governor Flyball
13	150-1842	1	*#Spacer Kit, Governor Flyball (Includes Mounting Screws)
14	815-0506	3	*Screw, Spacer Mounting (Special)

\* - Parts Included in 105-0218 Camshaft Gear Assembly.  
 # - Camshaft Gear Assemblies with Rivets Order 105-0218 Camshaft Gear Assembly.

# CYLINDER HEAD



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	HEAD, CYLINDER		
	110-2986	2	With Valves Spec A Through N (Includes Cylinder Head Connector and Parts Marked #)
	110-2985	2	Begin Spec P (Includes Cylinder Head Connector and Parts Marked +)
	110-2984	2	Without Valves (Includes Parts Marked *) #Spec A Through N
	110-1855	2	+Begin Spec P
2	110-2944	2	Gasket, Head
3	GUIDE, VALVE		
	110-1501	8	*Standard
	110-1501-01	8	.001" Oversize
	110-1501-05	8	.005" Oversize
4	INSERT, VALVE SEAT		
	110-1268	8	*Standard
	110-1268-02	8	.002" Oversize
	110-1268-05	8	.005" Oversize
	110-1268-10	8	.010" Oversize
	110-1268-25	8	.025" Oversize
5	110-1871	4	#+Valve, Intake
6	110-1278	4	#+Valve, Exhaust
7	110-1221	8	#+Spring, Valve
8	110-1220	8	#+Retainer, Valve Spring
9	110-0858	16	#+Lock, Valve Spring Retainer
10	110-0859	8	Cap, Valve Stem
11	509-0132	4	#+Seal, Oil - Intake Valve
12	ARM, ROCKER		
	115-0128	4	Exhaust
	115-0129	4	Intake
14	115-0127	8	Ball, Rocker Arm
15	115-0150	8	Locknut, Rocker Arm
16	115-0152	8	#+Stud, Rocker Arm
17	115-0149	8	Rod, Valve Push
18	115-0195	8	†Tappet, Valve
19	115-0196	2	*Guide, Push Rod
20	115-0134	2	Cover Assembly, Rocker (Includes Parts Marked ▷)
21	120-0628	2	▷Line, Oil - Rocker Cover
22	115-0130	2	Gasket, Rocker Cover
23	110-1264	10	Screw, Cylinder Head Mounting (Special)
24	110-0546	4	Gasket, Glow Plug
25	333-0106	4	Plug, Glow - Includes Gasket
26	800-0501	12	Screw, Cylinder Head Mounting (Special)
27	526-0174	14	Washer, Flat (13/32" ID x 25/32" OD x 0.1345" Thk)
28	520-0608	8	#+Stud, Exhaust Manifold
29	403-0690	1	Bracket, Lifting
30	815-0562	2	▷Screw, Machine - Cross Recessed Pan Head (#10 x 5/16")
31	505-0274	2	*Plug, Pipe - Countersunk Hex Head (1/8") (Sets Without Standpipe)
32	402-0361	2	Cushion, Vibration
33	403-0890	1	Brace, Lifting Bracket
34	403-0826	1	Spacer, Lifting Bracket
35	402-0362	2	Bushing, Spacer
36	123-1140	2	*Standpipe - Begin Spec T
37	850-0045	8	Washer, Lock - Spring (5/16")
38	800-0030	7	Screw, Cap - Hex Head (5/16-18 x 1-1/4")
39	526-0130	1	▷Washer, Flat (17/64" ID x 1" OD x 1/16" Thk)

XC-1032

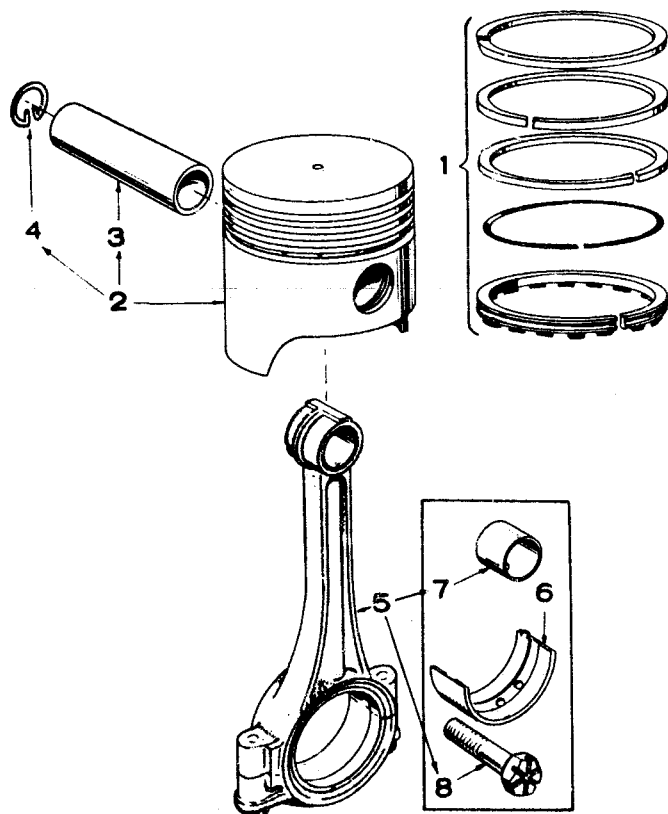
## CYLINDER HEAD

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
40	800-0094	2	Screw, Cap - Hex Head (1/2-13 x 2")
41	526-0100	2	Washer, Flat - Unplated (9/16" ID x 1-3/8" OD x 7/64" Thk)
42	800-0038	1	Screw, Cap - Hex Head (5/16-18 x 3/4")
43	850-0045	2	Washer, Lock - Spring (5/16")
44	800-0026	1	Screw, Cap - Hex Head (5/16-18 x 3/4")
45	862-0015	1	Nut, Hex (5/16-18)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
46	110-1282	1	Bolt, Cylinder Head (Special) (Switch Mounting) Sets With Low Engine Temperature Switch
47	505-0110	2	*Plug, Pipe - Square Head (3/8")

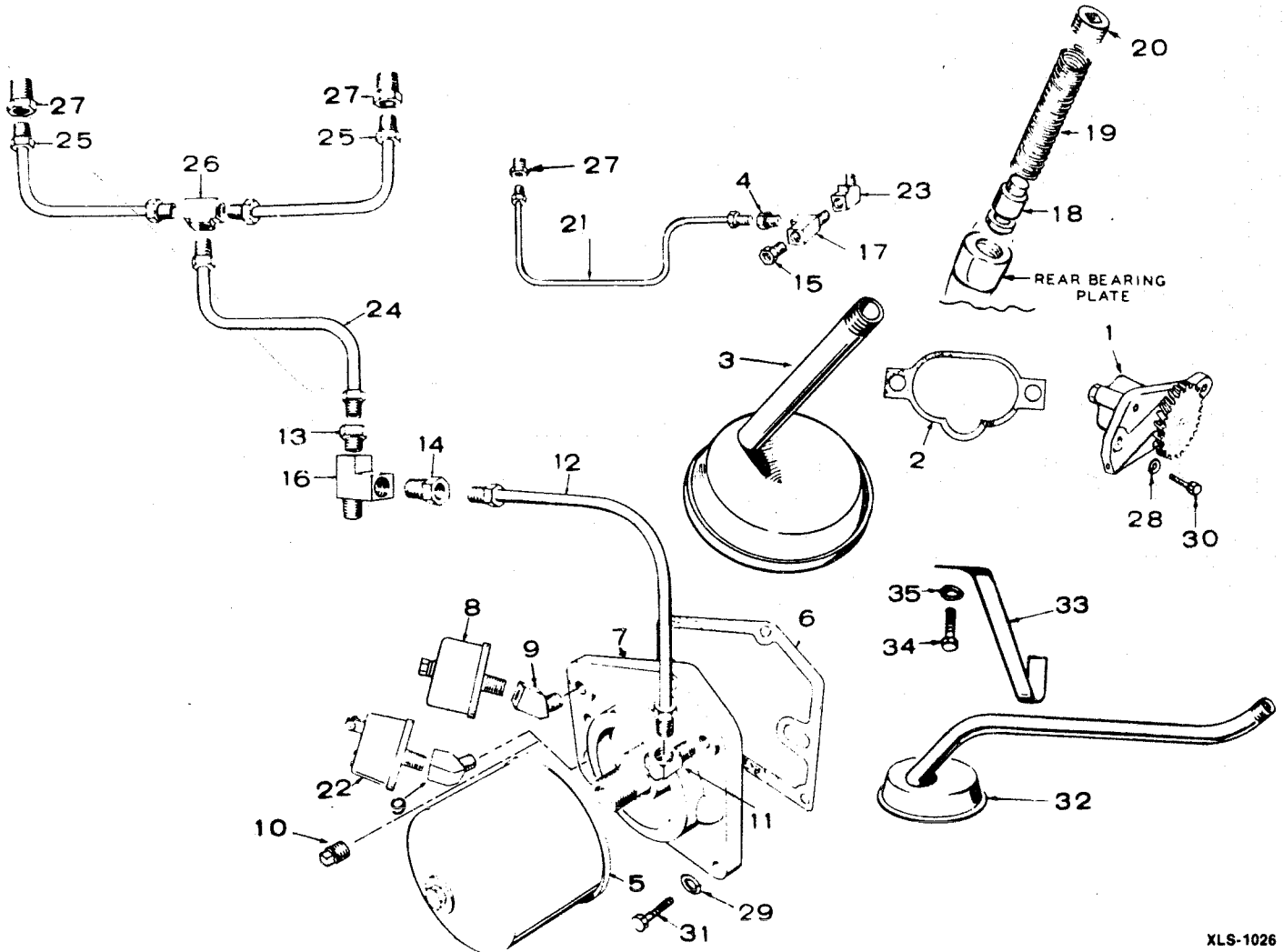
# - Parts Included in 110-2986 Cylinder Head.  
 + - Parts Included in 110-2985 Cylinder Head.  
 \* - Parts Included in 110-2984 and 110-1855 Cylinder Heads.  
 ‡ - Included in Cylinder Block Assemblies.  
 ▷ - Parts Included in 115-0134 Rocker Cover Assembly.

## PISTON AND ROD



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	RING SET		
	113-0130	4	Standard
	113-0130-05	4	.005" Oversize
	113-0130-10	4	.010" Oversize
	113-0130-20	4	.020" Oversize
	113-0130-30	4	.030" Oversize
	113-0130-40	4	.040" Oversize
2	PISTON AND PIN (Includes Pin Retaining Rings)		
			<b>Spec A Through N</b>
	112-0173	4	Standard
	112-0173-05	4	.005" Oversize
	112-0173-10	4	.010" Oversize
	112-0173-20	4	.020" Oversize
	112-0173-30	4	.030" Oversize
	112-0173-40	4	.040" Oversize
			<b>Begin Spec P</b>
	112-0175	4	Standard
	112-0175-05	4	.005" Oversize
	112-0175-10	4	.010" Oversize
	112-0175-20	4	.020" Oversize
	112-0175-30	4	.030" Oversize
	112-0175-40	4	.040" Oversize
3	112-0093	4	Pin, Piston
4	112-0085	8	Ring, Retaining
5	114-0168	4	Rod Assembly, Connecting
6	BEARING HALF, CONNECTING ROD		
	114-0164	8	Standard
	114-0164-02	8	.002" Undersize
	114-0164-10	8	.010" Undersize
	114-0164-20	8	.020" Undersize
	114-0164-30	8	.030" Undersize
7	114-0170	8	Bushing Half, Piston Pin - Connecting Rod
8	805-0012	8	Bolt, Place (Special)

# OIL SYSTEM



## OIL SYSTEM

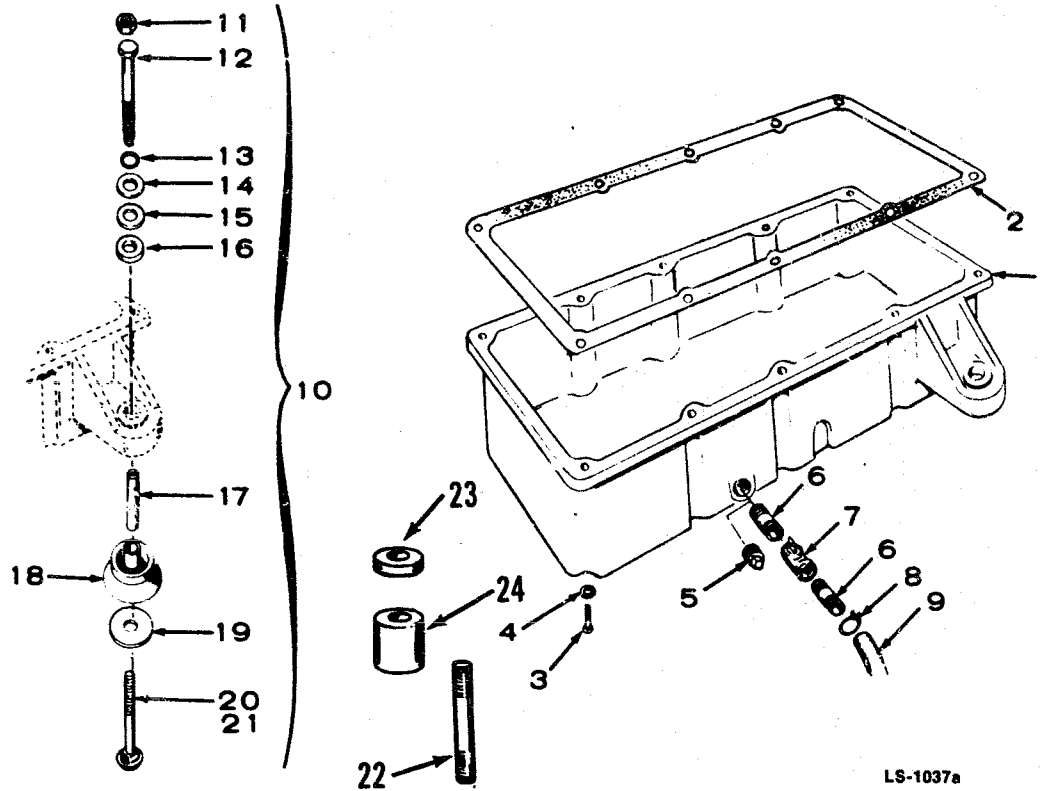
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	120-0547	1	Pump, Oil
2	120-0580	1	Gasket Kit, Oil Pump
3		1	Cup, Oil Pump Intake (Used on Early Models) Sets With Straight Tube Order Oil Pump Intake Cup Kit 120-0756 (Includes Parts Marked *)
4	502-0097	1	Connector - Front Cylinder Head Tee to Rear Cylinder Head Line
5	FILTER, OIL		
	122-0185	1	4-3/8" Long
	122-0193	1	5-3/4" Long (Heavy Duty)
6	122-0188	1	Gasket, Oil Adapter
7	122-0182	1	Adapter, Oil Filter
8	SENDER, OIL PRESSURE		
	193-0108	1	Spec A through AA
	193-0244	1	Spec AB
	193-0271	1	Begin Spec AC
9	502-0053	2	Elbow, Street - 45° Brass (One Used on Pennsylvania Approved Sets)
10	505-0057	1	Plug, Pipe (1/8") Pennsylvania Approved Sets
11	ELBOW - OIL LINE TO ADAPTER		
	502-0019	1	Spec A through N
	502-0037	1	Begin Spec P
12	LINE - ADAPTER TO INJECTION PUMP TEE		
	120-0582	1	Spec A through N
	120-0636	1	Begin Spec P
13	CONNECTOR, INVERTED MALE - INJECTION PUMP LUBRICATION TEE		
	502-0030	1	Spec A through N
	502-0097	1	Begin Spec P
14	CONNECTOR, INVERTED MALE - INJECTION PUMP LUBRICATION TEE		
	502-0030	1	Spec A through N
	502-0274	1	Begin Spec P (Restricted)
15	CONNECTOR, INVERTED MALE - FRONT CYLINDER HEAD TEE		
	502-0030	1	Spec A through N
	502-0097	1	Spec P through S
16	502-0242	1	Tee, Restricted - Injection Pump Lubrication
17	502-0282	1	Tee, Restricted - Front Cylinder Head - Spec A through S

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
18	120-0539	1	Valve, Oil By-Pass
19	120-0555	1	Spring, By-Pass Valve
20	505-0274	1	Plug, Pipe - Countersunk - Oil By-Pass
21	LINE, OIL - REAR CYLINDER HEAD		
	120-0575	1	Spec A through N
	120-0635	1	Spec P through S
22	309-0169	1	Switch, Low Oil Pressure - Not Used on Pennsylvania Approved Sets
23	502-0053	1	Elbow (45°), Street - Cylinder Head Tee - Spec A through S
24	LINE, OIL - INJECTION PUMP TEE TO CYLINDER HEAD TEE		
	120-0583	1	Spec A through N
	120-0630	1	Spec P through S
	120-0697	1	Begin Spec T
25	120-0695	2	Line, Oil - Cylinder Head - Begin Spec T
26	502-0373	1	Tee, Inverted Flare - Begin Spec T
27	CONNECTOR, INVERTED MALE - CYLINDER HEAD		
	502-0097	1	Rear - Spec A through N
	502-0281	1	#Rear - Begin Spec P
	502-0281	1	#Front - Begin Spec T
28	WASHER, LOCK		
	850-0045	2	Oil Pump Mounting (5/16")
29	850-0045	3	Oil Filter Adapter Mounting (5/16")
	SCREW, HEX CAP		
30	800-0030	2	Oil Pump Mounting (5/16-18 x 1-1/4")
31	800-0028	3	Oil Filter Adapter Mounting (5/16-18 x 1")
32	120-0601	1	*Cup, Oil Pump Intake
33	120-0602	1	*Bracket, Oil Pump Intake Cup
34	800-0025	1	*Screw, Cap - Hex Head (5/16-18 x 5/8")
35	850-0045	1	*Washer, Lock - Spring (5/16")

\* - Parts Included in 120-0756 Oil Pump Intake Cup Kit.

# - Included in Cylinder Head Assemblies.

# OIL BASE



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	BASE, OIL 102-0476	1	Spec A Begin Spec B
	102-0539	1	Sets Without Oil Base Heater
	102-0549	1	Sets With Oil Base Heater
2	102-0475	1	Gasket, Oil Base
3	800-0072	10	Screw, Cap - Hex Head (7/16-14 x 1-1/4")
4	850-0055	10	Washer, Lock - spring (7/16")
5	505-0056	1	Plug, Pipe (1/2") City Water Cooled Sets Spec A Through AC
6	NIPPLE, PIPE - CLOSE 505-0100	2	Radiator Cooled Sets
	505-0100	2	City Water Cooled Sets Begin Spec AD
7	VALVE 504-0011	1	Radiator Cooled Sets
	504-0011	1	City Water Cooled Sets Begin Spec AD
8	CLAMP 503-0197	1	Radiator Cooled Sets
	503-0197	1	City Water Cooled Sets Begin Spec AD
9	HOSE 503-1194	1	Radiator Cooled Sets
	503-1194	1	City Water Cooled Sets Begin Spec AD
10	HARDWARE PACKAGE, MOUNTING 402-0356	4	Radiator Cooled Sets (Includes Parts Marked *) City Water Cooled Sets Sets Without Skid Base (Includes Parts Marked #) Sets With Skid Base (Includes Parts Marked ‡)
	402-0291	4	Sets Without Skid Base (Includes Parts Marked #)
	402-0327	1	Sets With Skid Base (Includes Parts Marked ‡)
11	862-0004	4	*Nut, Hex (7/16") City Water Cooled Sets
12	800-0081	4	*Screw, Cap - Hex Head (7/6-14 x 3-1/2") Radiator Cooled Sets Begin Spec B

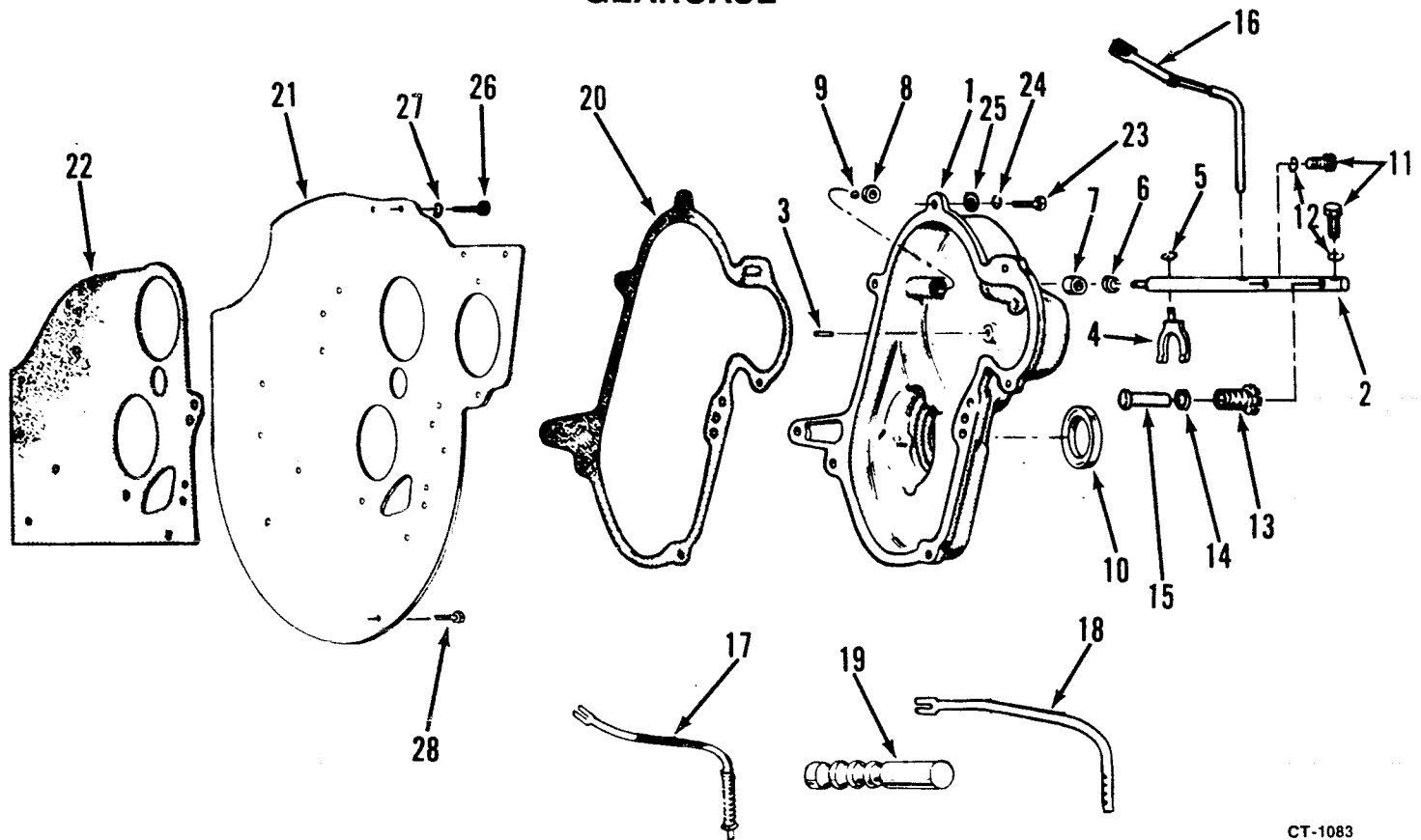
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
13	850-0055	4	*Washer, Lock - Spring (7/16")
14	526-0014	4	*Washer, Flat (29/64" ID x 1-1/2" OD x 1/8" Thk) Used With Cone Shaped Cushions
15	526-0198	8	*Washer, Flat (5/8" ID x 1-1/2" OD x 1/16" Thk) (Use as Required)
16	402-0282	4	*Snubber - Shock Mounting - Begin Spec B
17	BUSHING, SPACER 402-0046	4	Spec A
	402-0290	4	*Begin Spec B
18	CUSHION, VIBRATION (Cone Shaped) 402-0285	2	Engine End - Begin Spec B Generator End
	402-0287	2	Spec B Through Z
	402-0286	2	Begin Spec AA
19	526-0195	4	#Washer, Flat (29/64" ID x 3" OD x 1/8" Thk) (Used with Cone Shaped Cushions) City Water Cooled Sets
20	816-0212	4	#Bolt, Carriage (7/16-14 x 5-1/2") City Water Cooled Sets without Skid Base
21	800-0082	4	‡Screw, Cap - Hex Head (7/16-14 x 3-3/4") City Water Cooled Sets With Skid Base
22	520-0650	4	Stud, Vibration Mount - Spec A
23	402-0036	4	Mount, Upper Vibration (Cylindrical Shaped) Spec A
24	MOUNT, LOWER VIBRATION (Cylindrical Shaped) Spec A 402-0038	2	Engine End
	402-0251	2	Generator End

\* - Parts Included in 402-0356 Mounting Hardware Package

# - Parts Included in 402-0291 Mounting Hardware Package

‡ - Parts Included in 402-0327 Mounting Hardware Package

# GEARCASE

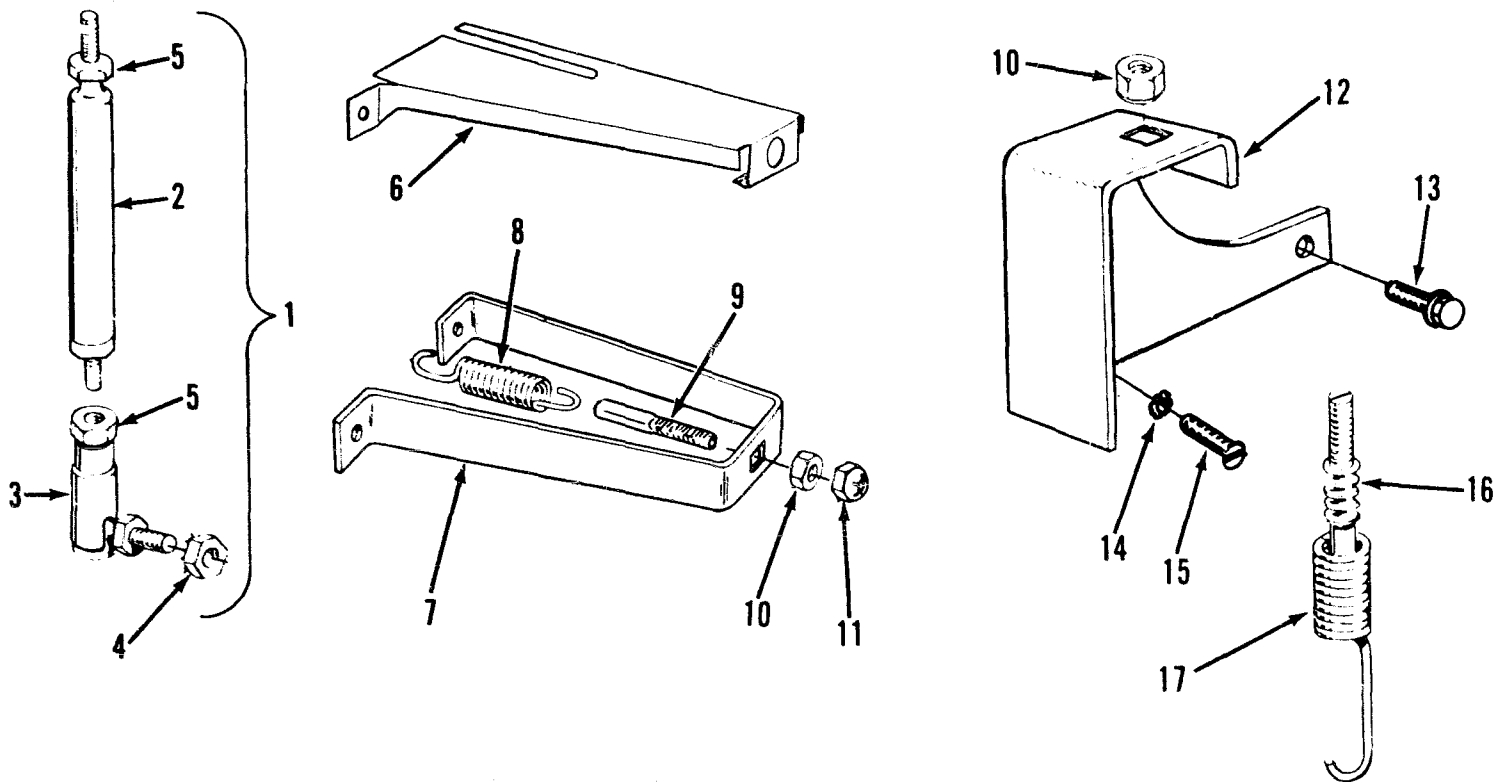


CT-1083

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	GEARCASE ASSEMBLY			16	150-1228	1	Arm, Governor - Radiator Cooled (Begin Spec R)
	103-0278	1	Radiator Cooled Spec A Through Q (Includes Parts Marked #)	17	150-1095	1	Arm, Governor (Includes Spring Hub and Washer) City Water Cooled (Begin Spec R)
	103-0307	1	Begin Spec R (Includes Parts Marked *)	18	150-0847	1	Arm, Governor (Spec A Through Q)
	103-0277	1	City Water Cooled (Includes Parts Marked ‡)	19	150-0900	1	#Arm, Governor Spring Control - Radiator Cooled (Spec A Through Q)
2	SHAFT, GOVERNOR			20	103-0251	1	Gasket, Gearcase
	150-0901	1	#*Radiator Cooled	21	BACKPLATE, GEARCASE		
	150-0838	1	‡City Water Cooled		103-0228	1	Radiator Cooled Spec A Through Z
3	516-0111	1	#*‡Pin, Governor Cup Stop		103-0521	1	Begin Spec AA
4	150-0777	1	#*‡Yoke, Governor		103-0228	1	City Water Cooled
5	518-0129	1	#*‡Ring, Yoke Retainer	22	103-0218	1	Gasket, Gearcase
6	509-0088	1	#*‡Seal, Governor Shaft	23	SCREW, CAP - HEX HEAD (Gearcase Mounting)		
7	510-0048	1	#*‡Bearing, Shaft - 1/2"		110-0879	4	Special
8	510-0082	1	#*‡Bearing, Shaft - 1/4"		800-0028	1	5/16-18 x 1"
9	510-0043	1	#*‡Ball, Governor Shaft Thrust	24	850-0045	5	Washer, Lock - Spring (5/16")
10	509-0087	1	#*‡Seal	25	526-0115	4	Washer, Flat (11/32" ID x 11/16" OD x 1/16" Thk)
11	SCREW, MACHINE - HEX HEAD (#8-32 x 1/2")			26	800-0026	1	Screw, Cap - Hex Head (5/16-18 x 3/4")
	815-0176	2	#*Radiator Cooled	27	850-0045	1	Washer, Lock - Spring (5/16")
	815-0176	1	‡City Water Cooled	28	815-0347	2	Screw, Machine - Flat Head Socket Drive (1/4-20 x 1/2")
12	WASHER, LOCK - SPRING (#8)						
	850-0025	2	#*Radiator Cooled				
	850-0025	1	‡City Water Cooled				
13	150-1160	1	*Hub, Governor Shaft - Radiator Cooled (Begin Spec R)				
14	150-1155	1	*Washer, Spring - Governor Shaft - Radiator Cooled (Begin Spec R)				
15	150-1154	1	*Pin, Governor Shaft Hub - Radiator Cooled (Begin Spec R)				

# - Parts Included in 103-0278 Gearcase Assembly  
 \* - Parts Included in 103-0307 Gearcase Assembly  
 ‡ - Parts Included in 103-0277 Gearcase Assembly

# GOVERNOR



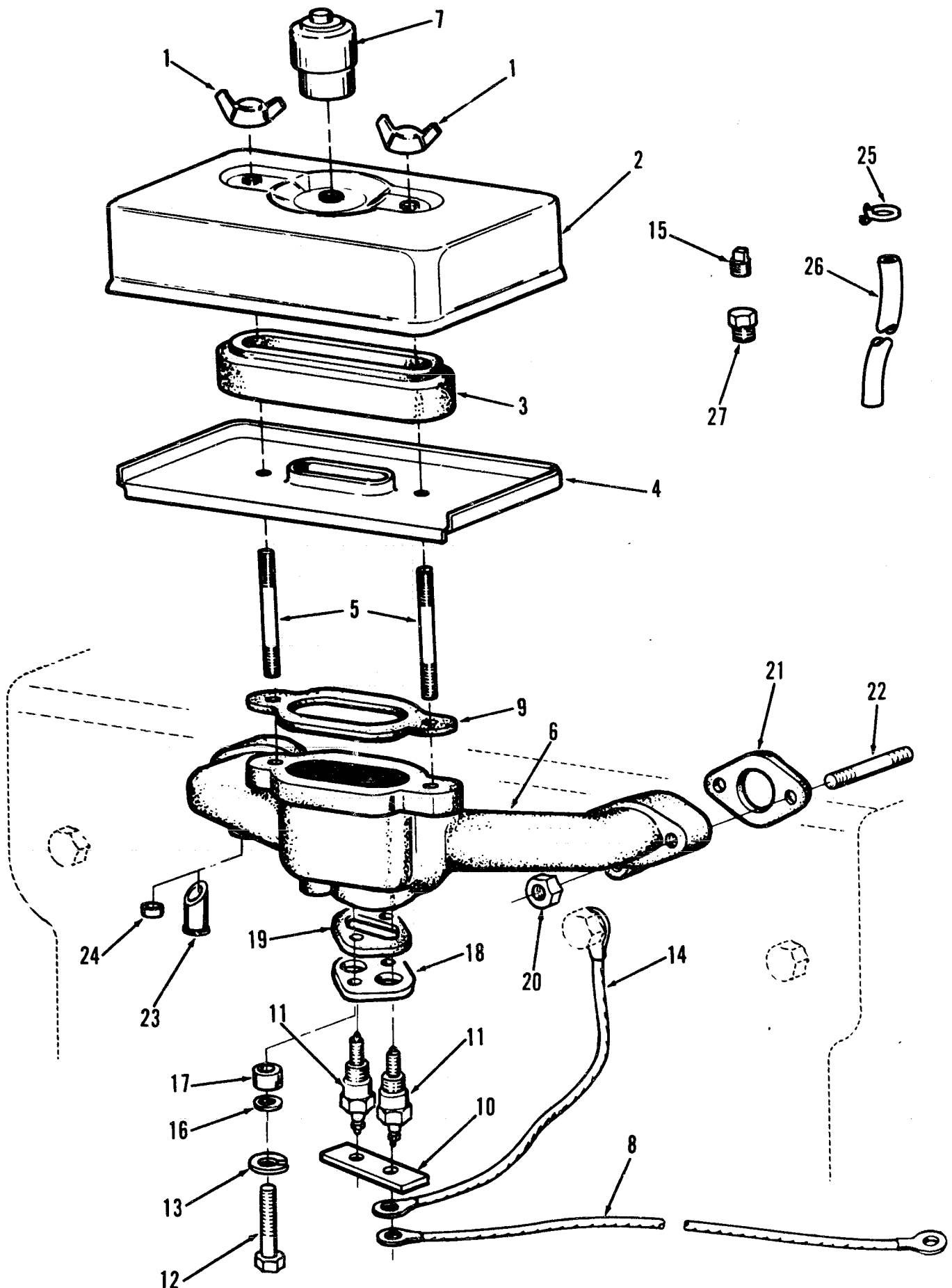
FS-1588

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	LINKAGE ASSEMBLY, GOVERNOR		
	150-0831	1	Spec A Through Q (Includes Parts Marked *)
	150-1132	1	Begin Spec R (Includes Governor Link and Parts Marked #)
2	150-0874	1	*Link, Governor - Spec A Through Q
3	JOINT, BALL		
	150-0974	2	*Spec A Through Q (1 Ball Joint Included in Governor Linkage Assembly) Begin Spec R
	150-1358	1	#Governor Linkage
	150-0939	1	Injection Pump (Included With Injection Pump)
4	870-0131	2	*#Nut, Hex - With ET (#10-32) (1 Nut Included With Injection Pump)
5	871-0010	2	*#Nut, Hex - Brass (#10-32)
6	150-0823	1	Cover, Governor Bracket Spec A Through Z City Water Cooled Sets without Heat Exchanger
7	BRACKET, GOVERNOR - City Water Cooled Sets without Heat Exchanger		
	150-0810	1	Spec A Through Q
	150-1103	1	Begin Spec R
8	150-1084	1	Spring, Governor - Begin Spec R

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
9	150-1082	1	Stud, Governor - Begin Spec R
10	NUT, ADJUSTING (Special)		
	104-0091	1	Spec A Through Q
	862-0003	1	Begin Spec R
11	NUT, LOCKING		
	870-0130	1	Spec A Through Q (3/8-24)
	870-0133	1	Spec R Through Z (3/8-16)
12	BRACKET, GOVERNOR - Radiator Cooled Sets		
	150-0902	1	Spec A Through Q
	150-1105	1	Begin Spec R
13	821-0018	1	Screw, Hex Locking Head (Flange) (1/4-20 x 5/8") Begin Spec AD
14	855-0011	1	Washer, Lock - ET Countersunk (1/4") Begin Spec AD
15	814-0151	1	Screw, Machine - Flat Head (1/4-20 x 3/4") Begin Spec AD
16	150-0822	1	Stud, Governor - Spec A Through Q
17	150-0821	1	Spring, Governor - Spec A Through Q

\* - Parts Included in 150-0831 Governor Linkage Assembly  
# - Parts Included in 150-1132 Governor Linkage Assembly

# AIR INTAKE SYSTEM

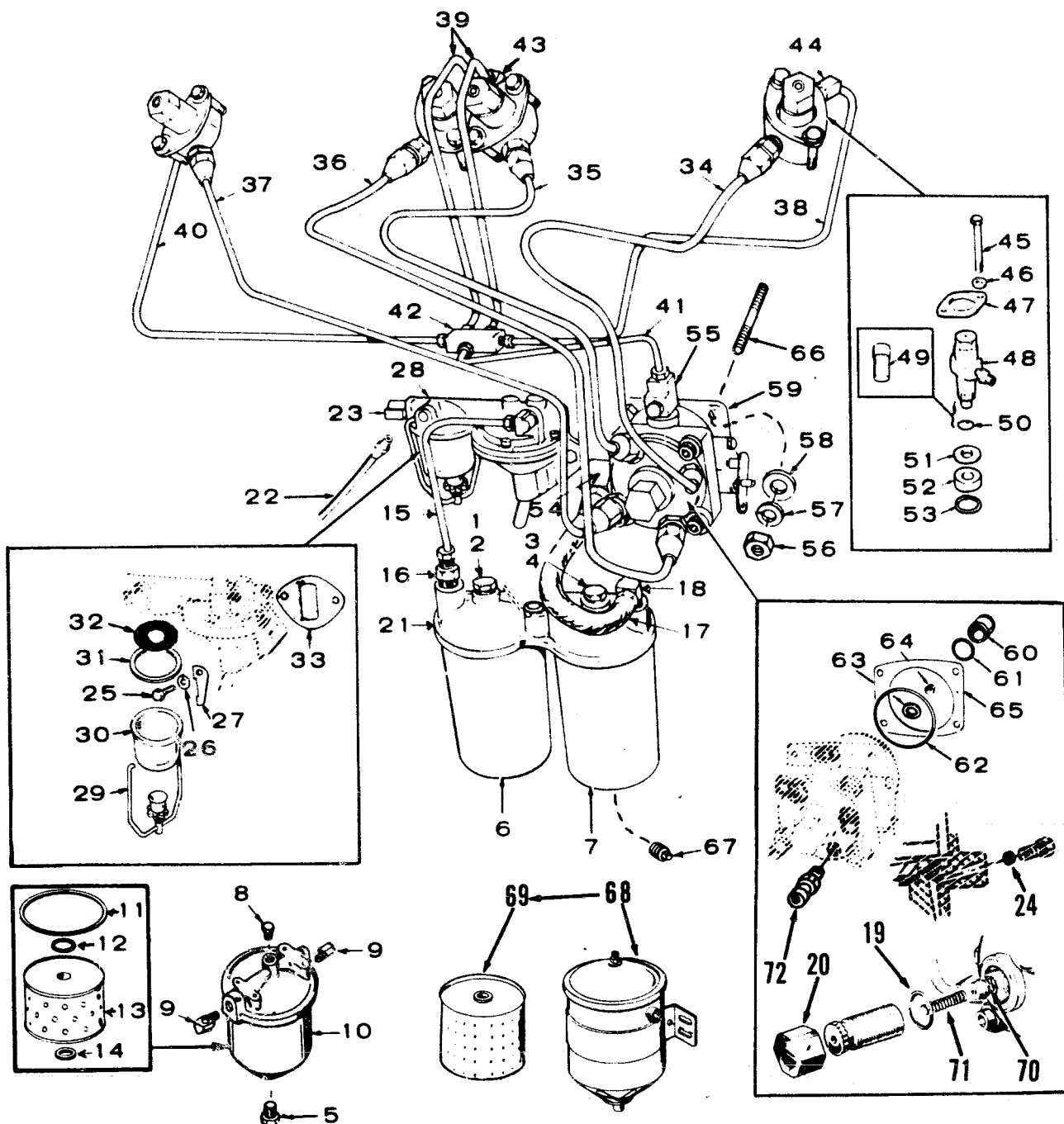


## AIR INTAKE SYSTEM

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	865-0020	2	Nut, Wing	15	505-0054	1	Plug, Pipe - Square Head (1/4") Intake
2	COVER, AIR CLEANER						Manifold (Early Models)
	140-0594	1	Sets Without Restriction Indicator	16	508-0102	2	Washer, Insulator
	140-1194	1	Sets With Restriction Indicator	17	508-0103	2	Bushing, Insulator
3	140-1907	1	Element and Retainer	18	140-0705	1	Plate, Heater
4	140-0595	1	Pan, Air Cleaner	19	140-0706	1	Gasket, Heater Plate
5	520-0621	2	Stud, Air Cleaner	20	870-0137	4	Nut, Hex - Self-locking (5/16-24)
6	154-1378	1	Manifold Kit, Intake (Includes Parts Marked *)	21	154-0733	2	Gasket, Intake Manifold
7	140-0961	1	Indicator, Restriction - Late Models	22	STUD, MANIFOLD MOUNTING		
8	336-1229	1	Lead - Manifold Heater to Control Solenoid		520-0011	2	5/16-24 x 5/16-18 x 1-7/16"
9	140-0584	1	Gasket, Air Cleaner		520-0338	2	5/16-18 x 5/16-24 x 2-7/8"
10	332-0829	1	Jumper, Manifold Heater	23	123-0732	1	*Tube, Breather - Spec A Through S
11	154-0712	2	Heater, Manifold - Includes Gasket	24	517-0104	1	*Plug, Core Hole - Begin Spec T
12	114-0023	2	Screw, Cap - Hex Head (Special)	25	503-0171	2	Clamp, Breather Hose - Spec A Through R
13	850-0040	2	Washer, Lock - Spring (1/4")	26	503-1274	1	Hose, Breather - Spec A Through R - <b>NOTE:</b> See Cylinder Block Group - Spec S
14	LEAD - Glow Plug to Manifold Heater			27	505-0180	1	Plug, Pipe (1/4" Countersunk) Intake Manifold (Early Models)
			<b>No. 1 Cylinder</b>				
	336-1314	1	Round Terminal (10-1/4")				
	336-1504	1	Blade Terminal (12-1/4")				
			<b>No. 2 and 3 Cylinder (5-1/4")</b>				
	336-1313	2	Round Terminal				
	336-1505	2	Blade Terminal				
			<b>No. 4 Cylinder</b>				
	334-0030	1	Round Terminal (18")				
	336-1504	1	Blade Terminal (12-1/4")				

\* - Parts Included in 154-1378 Intake Manifold Kit

# INJECTION SYSTEM



FS-1586

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	149-1046	1	Repair Kit, Fuel Pump (Includes Diaphragm and Gaskets)
1	801-0074	1	Screw, Cap - Hex Head (7/16-20 x 1-3/4") Begin Spec S
2	526-0068	1	Washer, Flat - Copper (29/64" ID 3/4" OD x 1/16") Begin Spec S
3	801-0053	1	Screw, Cap - Hex Head (3/8-24 x 1-3/4") Begin Spec S
4	526-0066	1	Washer, Flat - Copper (25/64" ID x 9/16" OD x 11/16" Thk) Begin Spec S
5	502-0028	1	Plug, Hex Head - Spec A Through R
6	122-0325	1	Filter, Fuel - Primary Begin Spec S
7	122-0326	1	Filter, Fuel - Secondary

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
8	149-0769	1	Plug, Air Bleed - Spec A Through R
9	502-0041	2	Elbow, Fuel Filter Inlet and Outlet - Spec A Through R
10	149-0408	1	Filter, Fuel (Includes Cartridge) Spec A Through R
11	149-0456	1	Gasket, Bowl to Cover - Spec A Through R
12	149-0455	1	Gasket, Bowl to Cover - Spec A Through R
13	149-0428	1	Cartridge, Fuel Filter - Spec A Through R
14	149-0493	1	Gasket, Cartridge to Retainer - Spec A Through R
15	LINE, FUEL - Pump to Primary Filter 149-0806 149-1189	1 1	Spec A Through R Begin Spec S
16	502-0003	1	Connector, Pipe - Begin Spec S

# INJECTION SYSTEM

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
17	LINE, FUEL - Secondary Filter to Injection Pump			48	147-0136	4	Nozzle and Holder Assembly (Includes Parts Marked +)
	501-0091	1	Spec A Through R	49	147-0134	4	+Nozzle - Includes Nozzle Gasket
	501-0129	1	Begin Spec S	50	147-0243	4	+Gasket, Nozzle
18	502-0099	1	Elbow, Reducer - Begin Spec S	51	147-0043	4	Gasket, Nozzle Heat Shield (Asbestos)
19	147-0254	1	*‡Gasket, Delivery Valve Cap	52	147-0044	8	Shield, Nozzle Heat (Steel)
20	147-0253	1	Cap, Delivery Valve	53	110-0419	4	Gasket, Shield to Head (Copper)
21	149-1185	1	Adapter, Fuel Filter - Begin Spec S	54	ELBOW, PIPE - Injection Pump Inlet		
22	501-0007	2	Line, Fuel - Flexible (24") Fuel Pump Inlet and Fuel Return		502-0054	1	Spec A Through R
23	502-0002	2	Elbow, Pipe - 90° (Inlet and Outlet)		502-0039	1	Begin Spec S
24	147-0203	1	*‡Gasket, Copper - Timing Screw	55	147-0577	1	*‡Fitting, Fuel Overflow
25	800-0027	2	#Screw, Cap - Hex Head (5/16-18 x 7/8")	56	862-0015	4	Nut, Hex (5/16-18)
26	850-0045	2	Washer, Lock - Spring (5/16")	57	850-0045	4	Washer, Lock - Spring (5/16")
27	149-1307	2	#Stiffener, Fuel Pump Flange	58	526-0115	4	Washer, Flat - (11/32" ID x 11/16" OD x 1/16" Thk)
28	149-1704	1	Pump Kit, Fuel (Includes Parts Marked #)	59	PUMP KIT, INJECTION		
29	BAIL, FUEL PUMP BOWL (Measure for Correct Length)				147-0231	1	Spec A Through Q (Includes Governor Ball Joint, Nut and Parts Marked *)
	149-1006	1	3-5/8" Long		147-0232	1	Begin Spec R (Includes Governor Ball Joint, Nut and Parts Marked ‡)
	149-1169	1	#2-7/8" Long	60	147-0182	1	*‡Tappet, Injection Pump
30	BOWL, FUEL PUMP (Measure for Correct Length)			61	147-0196	1	*‡Gasket, "O" Ring - Injection Pump Tappet
	149-0116	1	2-3/8" Long	62	509-0094	1	*‡Seal, "O" Ring - Injection Pump Mounting
	149-1168	1	#1-5/8" Long	63	147-0259	1	*‡Ring, Retaining - Timing Button
31	149-0517	1	#Gasket, Fuel Pump Bowl	64	BUTTON, INJECTION PUMP PLUNGER		
32	149-0463	1	#Screen, Fuel Pump		147-0147	1	*‡.119 - Marked 1 or A
33	149-0792	1	#Gasket, Fuel Pump Mounting		147-0148	1	*‡.116 - Marked 2 or B
34	LINE, INJECTION - No. 1 Cylinder				147-0149	1	.113 - Marked 3 or C
	149-0963	1	Spec A Through P		147-0150	1	.110 - Marked 4 or D
	149-1150	1	*Begin Spec R		147-0151	1	.107 - Marked 5 or E
35	LINE, INJECTION - No. 2 Cylinder				147-0161	1	.104 - Marked 1 or No Mark
	149-0964	1	Spec A Through P		147-0152	1	.101 - Marked 6 or F
	149-1151	1	*Begin Spec R		147-0153	1	.098 - Marked 7 or H
36	LINE, INJECTION - No. 3 Cylinder				147-0154	1	.095 - Marked 8 or J
	149-0919	1	Spec A		147-0155	1	.092 - Marked 9 or K
	149-0965	1	Spec B Through P		147-0156	1	.089 - Marked 10 or L
	149-1152	1	*Begin Spec R		147-0190	1	*‡.122 - Marked 12 or M
37	LINE, INJECTION - No. 4 Cylinder				147-0189	1	*‡.125 - Marked 13 or N
	149-0920	1	Spec A		147-0188	1	.128 - Marked 14 or P
	149-0966	1	Spec B Through P		147-0187	1	.131 - marked 15 or R
	149-1153	1	*Begin Spec R		147-0186	1	.134 - Marked 16 or S
38	LINE, FUEL RETURN - No. 1 Cylinder			65	147-0145	1	Shim Kit - Injection Pump Mounting
	149-0909	1	Spec A Through N	66	520-0129	4	Stud, Injection Pump Mounting
	149-1060	1	Begin Spec P	67	502-0080	2	Plug, Square Head
39	LINE, FUEL RETURN - No. 2 and No. 3 Cylinders			68	149-1078	1	Filter, Fuel (Includes Cartridge) Fuel Tank to Fuel Pump - Spec A Through R
	149-0908	2	Spec A Through N	69	149-0846	1	Cartridge, Fuel Filter - Spec A Through R
	149-1059	2	Begin Spec P	70	147-0258	1	*‡Spacer, Valve
40	LINE, FUEL RETURN - No. 4 Cylinder			71	147-0256	1	*‡Spring, Delivery Valve
	149-0910	1	Spec A Through N	72	147-0287	4	*‡Fitting, Discharge
	149-1061	1	Begin Spec P				
41	LINE, FUEL RETURN - Adapter Tee to Injection Pump						
	149-0949	1	Spec A Through N				
	149-1062	1	Begin Spec P				
42	502-0245	1	Tee, Adapter - Fuel Return Lines				
43	502-0002	2	Elbow, Pipe (90°) No. 2 and No. 3 Nozzle Fuel Return Outlet				
44	502-0065	2	Elbow, Pipe (45°) No. 1 and No. 4 Nozzle Fuel Return Outlet				
45	114-0171	8	Screw, Cap - Hex Head (Special)				
46	526-0122	8	Washer, Flat (11/32" ID x				

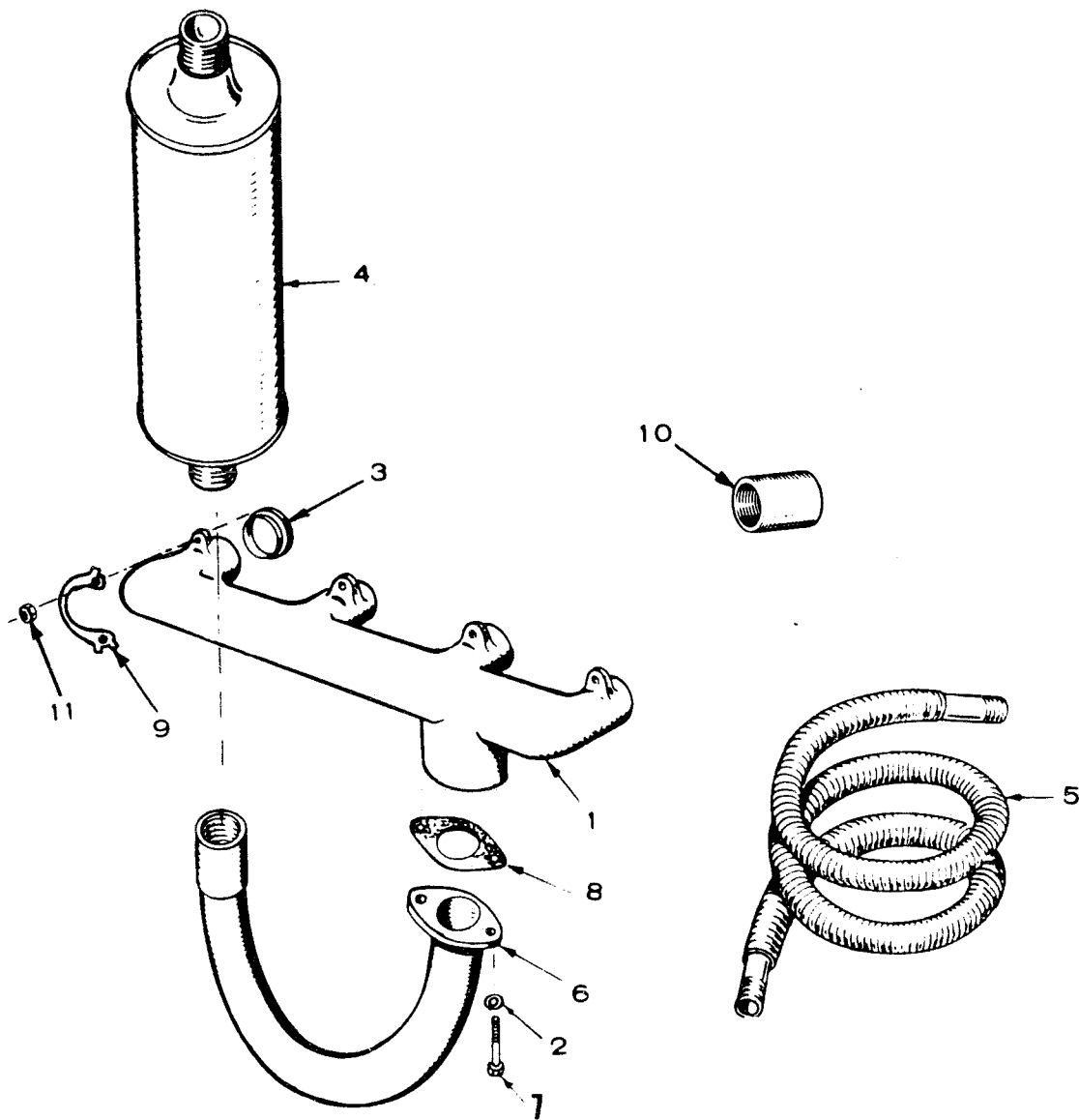
# - Parts Included in 149-1704 Fuel Pump Kit

+ - Parts Included in 147-0136 Nozzle and Holder Assembly

\* - Parts Included in 147-0231 Injection Pump Kit

‡ - Parts Included in 147-0232 Injection Pump Kit

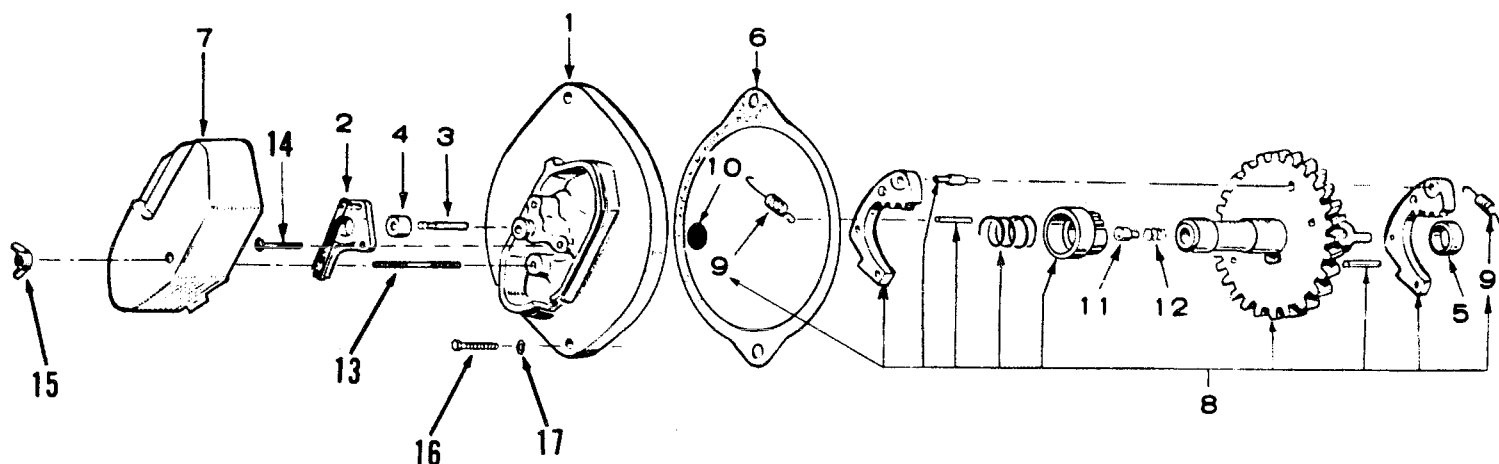
## EXHAUST SYSTEM



EXS-1117

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	154-0714	1	Manifold, Exhaust
2	850-0050	2	Washer, Lock - Spring (3/8")
3	154-1057	4	Gasket, Exhaust Manifold
4	155-0456	1	Muffler, Exhaust (15" Long)
5	155-0493	1	Tube, Exhaust - Flexible (36" Long)
6	155-0806	1	Tube, Exhaust Outlet
7	800-0052	2	Screw, Cap - Hex Head (3/8-16 x 1-1/2")
8	154-0738	1	Gasket, Exhaust Outlet
9	154-1665	4	Tab, Lock
10	505-0032	1	Coupling, Pipe (1-1/2") Unhoused Sets
11	110-0445	8	Nut, Hex (Special)

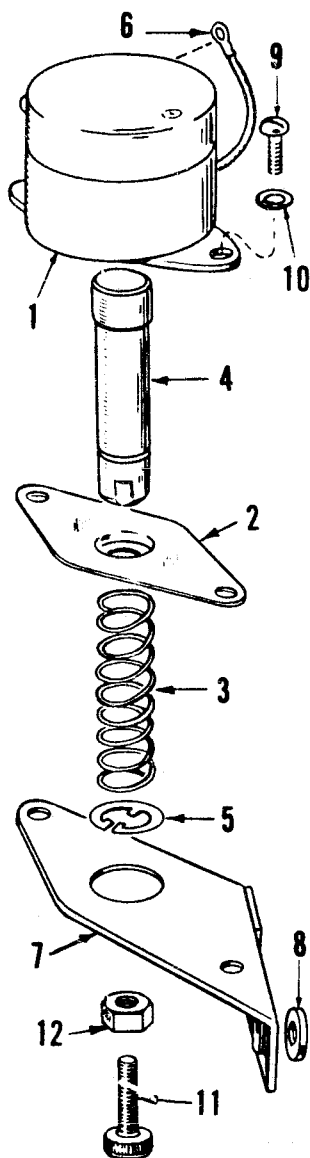
## START DISCONNECT



XM-1138

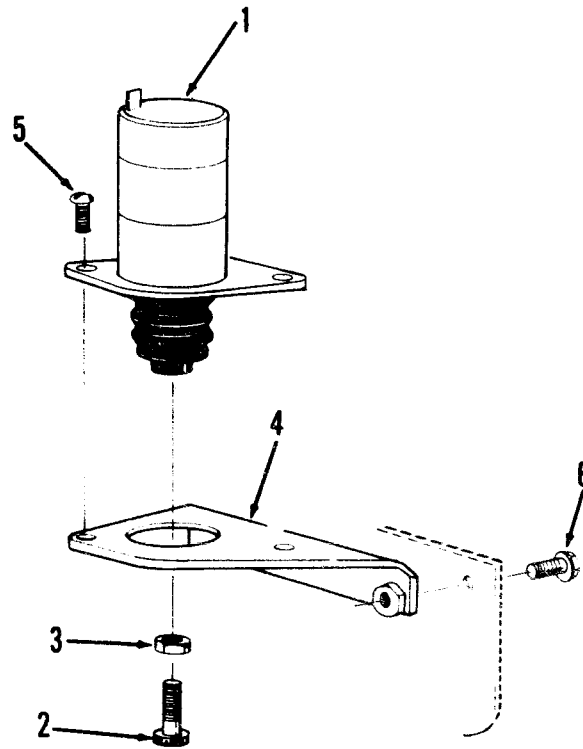
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	191-0496	1	Plate
2	309-0134	1	Switch Assembly (Includes Leads)
3	309-0152	1	Plunger, Switch
4	160-0382	1	Diaphragm, Switch Plunger
5	160-0720	1	Spacer, Switch Plate
6	160-0721	1	Gasket, Plate
7	191-0392	1	Cover, Switch Plate
8	191-0388	1	Control Assembly, Switch
9	160-0711	2	Spring, Weight (Included in Switch Control Assembly)
10	160-0806	1	Disc, Thrust Plunger
11	160-0774	1	Plunger, Thrust
12	160-0773	1	Spring, Thrust Plunger
13	520-0347	1	Stud, Plate Cover (Special)
14	815-0201	2	Screw, Machine - Brass - Round Head with ET (#8-32 x 3/8")
15	865-0011	1	Nut, Wing (#10-32)
16	800-0051	2	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
17	850-0050	2	Washer, Lock - Spring (3/8")

## STOP SOLENOID (SPEC A THROUGH AC)



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	307-0628	1	Solenoid, Stopping
2	306-0162	1	Retainer, Solenoid Plunger
3	306-0161	1	Spring, Solenoid Plunger
4	306-0159	1	Plunger, Solenoid
5	518-0203	1	Ring, Snap - Spring Retaining
6	336-0706	1	Lead, Solenoid Ground
7	306-0158	1	Bracket, Solenoid Mounting
8	526-0180	1	Spacer, Solenoid Bracket Mounting
9	812-0148	2	Screw, Round Head Machine (1/4-20 x 1/2")
10	850-0040	2	Washer, Lock - Spring (1/4")
11	306-0242	1	Screw, Brass - Solenoid Plunger
12	862-0001	1	Nut, Hex (1/4-20)

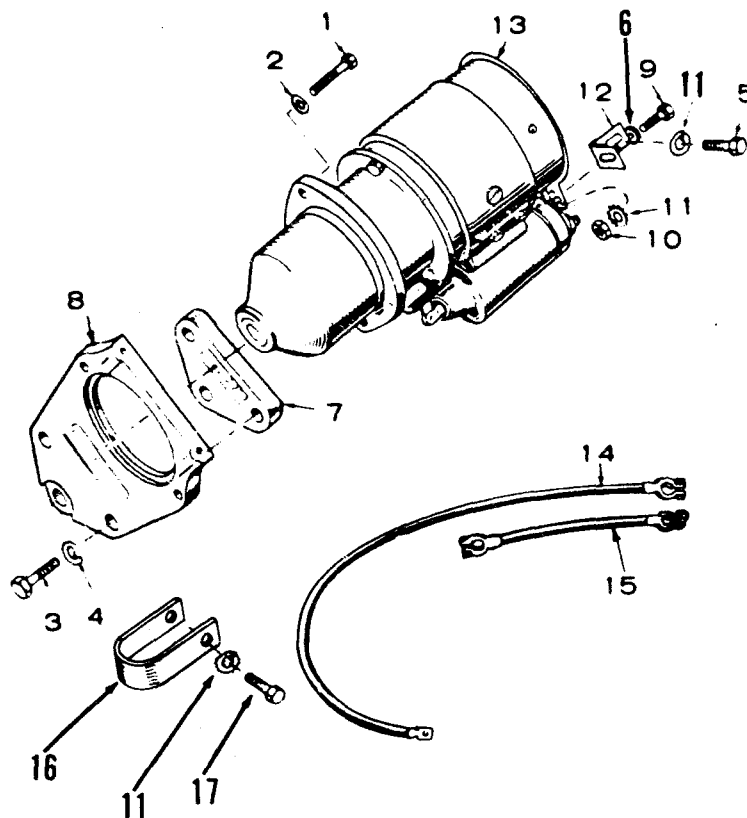
## STOP SOLENOID (BEGIN SPEC AD)



ES-1395

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	307-1904	1	Solenoid, Stop
2	306-2256	1	Screw, Solenoid Adjust
3	862-0001	1	Nut, Hex (1/4-20)
4	BRACKET, SOLENOID		
	306-2254	1	Radiator Cooled Sets
	306-2979	1	City Water Cooled Sets
5	821-0010	2	Screw, Hex Locking Head (Flange) (1/4-20 x 1/2")
6	SCREW, HEX LOCKING HEAD (FLANGE) (1/4-20 x 5/8")		
	821-0018	1	Radiator Cooled Sets
	821-0018	2	City Water Cooled Sets

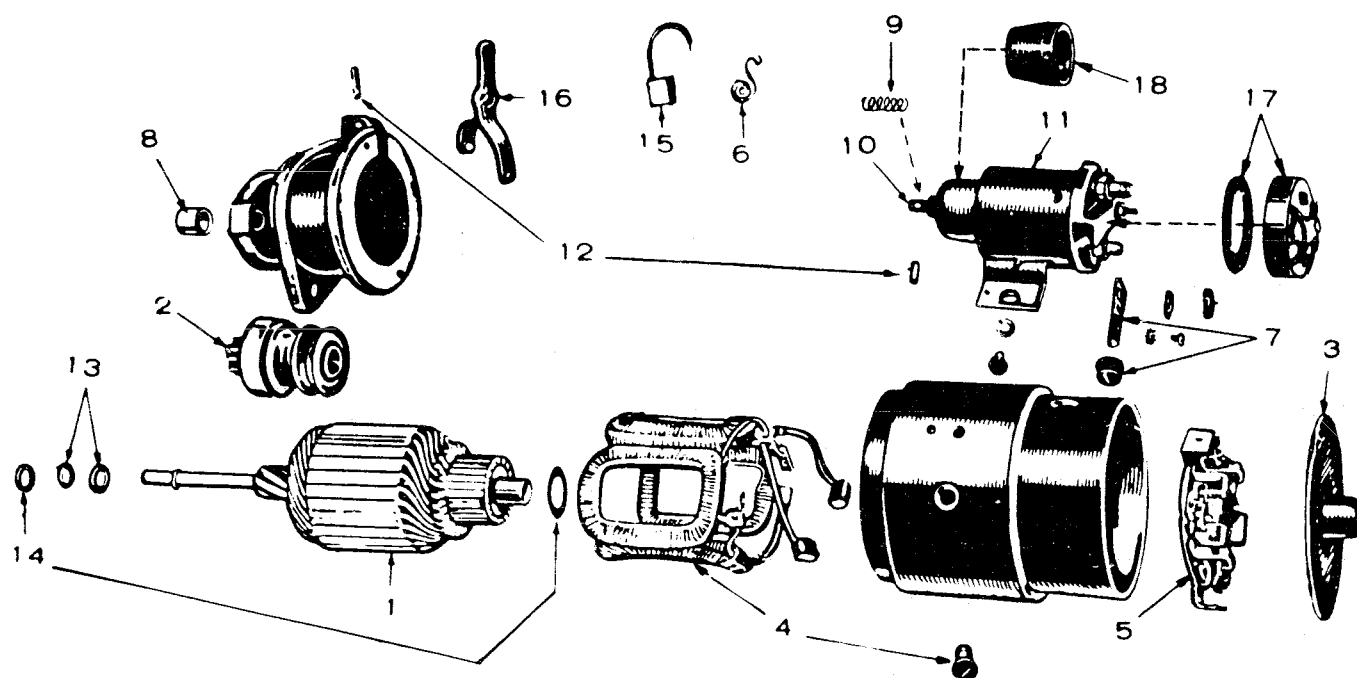
## STARTER (SPEC A THROUGH AC)



ES-1517

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	800-0051	2	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
2	850-0050	2	Washer, Lock - Spring (3/8")
3	SCREW, CAP - HEX HEAD		
	800-0053	1	3/8-16 x 1-3/4"
	800-0054	2	3/8-16 x 2"
4	850-0050	3	Washer, Lock - Spring (3/8")
5	800-0052	1	Screw, Cap - Hex Head (3/8-16 x 1-1/2")
6	526-0026	1	Washer, Flat (13/32" ID x 3/4" OD x 1/16" Thk)
7	191-0311	1	Spacer, Starter
8	191-1190	1	Flange, Starter
9	800-0046	1	Screw, Cap - Hex Head (3/8-16 x 1/2")
10	864-0003	1	Nut, Hex (3/8-16)
11	856-0010	3	Washer, Lock - EIT (3/8")
12	191-0365	1	Bracket, Starter
13	191-0324	1	Starter (See Separate Group for Components)
14	CABLE, BATTERY		
	416-0021	2	Sets Without Skid Base (20-1/2")
	416-0037	2	Sets With Skid Base (48")
15	416-0133	1	Cable, Battery Jumper
16	416-0096	1	Clamp, Battery Cable
17	800-0047	1	Screw, Cap - Hex Head (3/8-16 x 5/8")

## STARTER PARTS (SPEC A THROUGH AC)

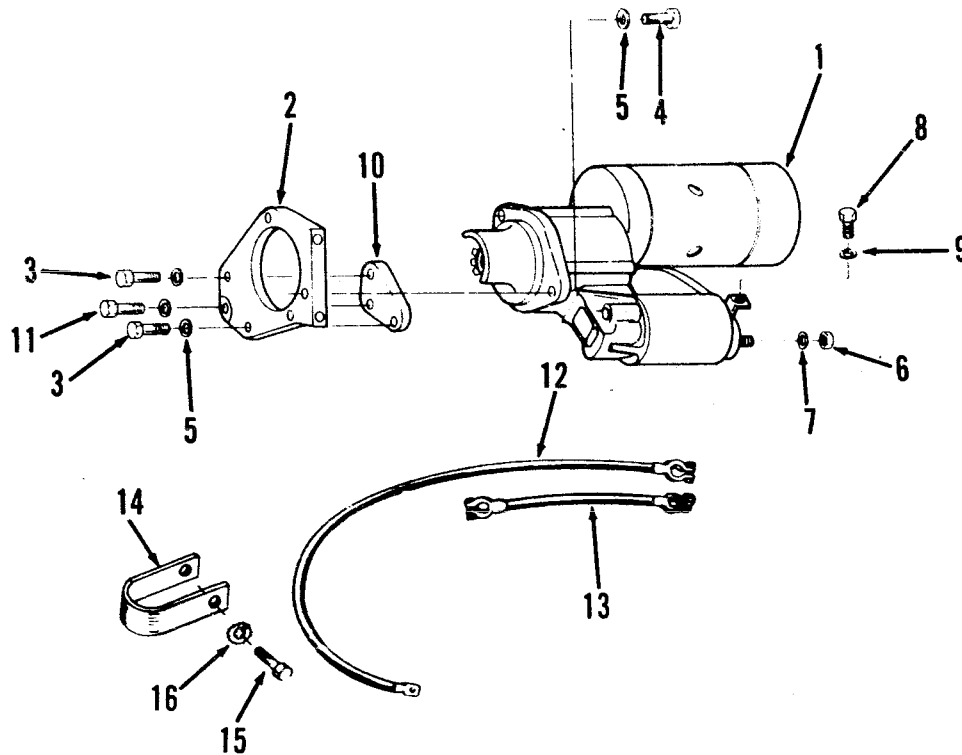


ES-1098

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	191-0324	1	Starter
1	191-0712	1	Armature
2	191-0432	1	Clutch
3	191-1023	1	Head Assembly, Commutator End
4	191-1024	1	Coil Package, Field
5	191-1025	1	Plate Assembly, Brush
6	191-1020	1	Spring Set, Brush (Set of 4)
7	191-1263	1	Connector Package
8	191-0497	1	Bearing (Bronze), Drive End
9	191-1027	1	Spring, Plunger
10	191-1028	1	Core Assembly, Moving

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
11	191-0433	1	Switch, Solenoid
12	191-1029	1	Yoke Parts Package
13	191-1030	1	Stop and Lock Ring Package, Pinion
14	191-1031	1	Thrust Washer Package, Armature (Use as Required)
15	191-0434	1	Brush Set, Service
16	191-1032	1	Yoke
17	191-1569	1	Switch Cover and Stud Package
18	191-1134	1	Boot, Rubber - Part of Moving Core Assembly

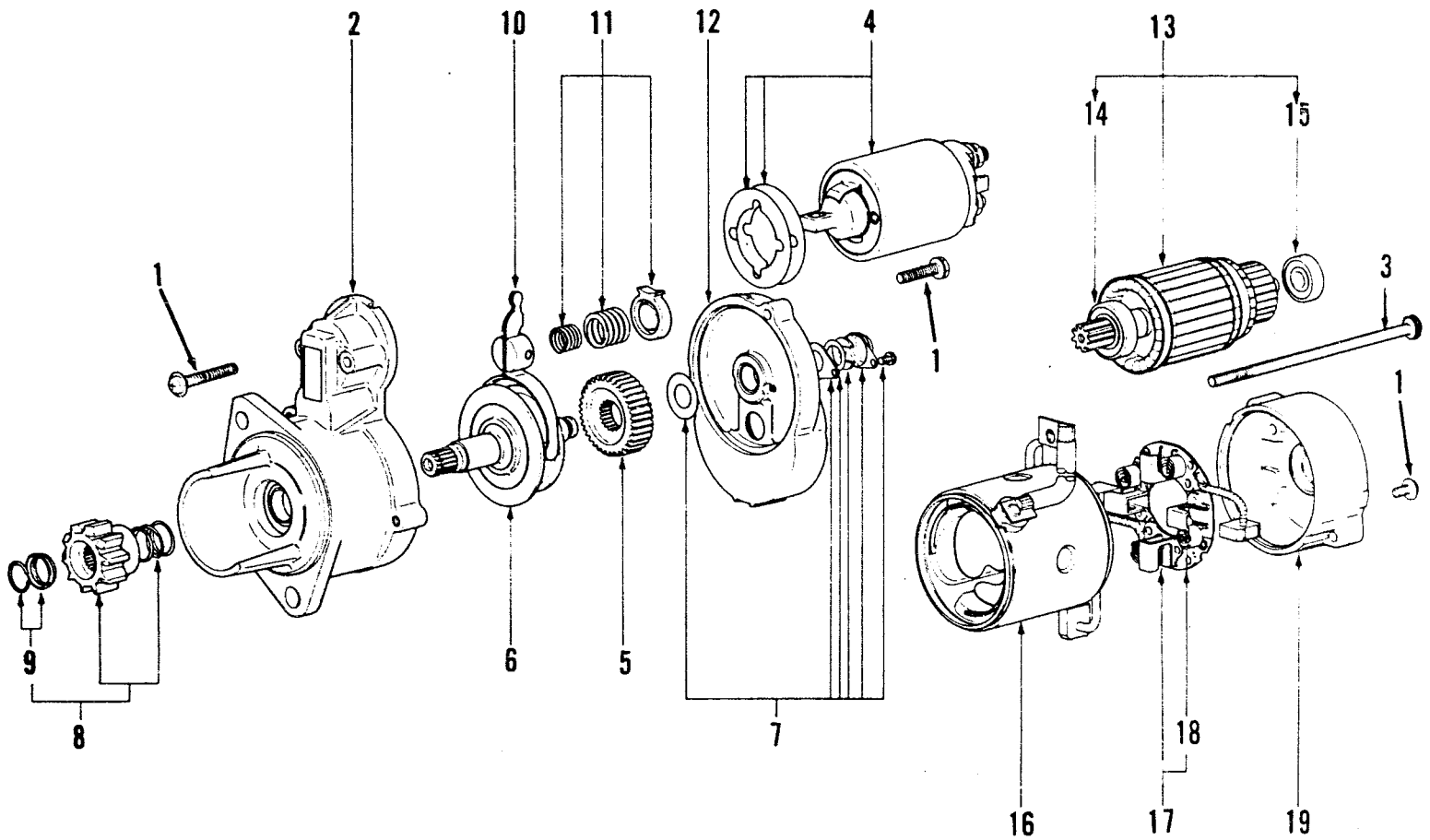
## STARTER (BEGIN SPEC AD)



ES-1518

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	191-1399	1	Starter (Includes Parts Marked *) See Separate Group for Components
2	191-1400	1	Flange, Starter Mounting
3	800-0054	2	Screw, Cap - Hex Head (3/8-16 x 2")
4	800-0051	2	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
5	850-0050	5	Washer, Lock - Spring (3/8")
6	860-2008	1	*Nut, Hex (M8) B+ Terminal
7	850-2008	1	*Washer, Lock - Spring M8 B+ Terminal
8	800-2000	1	*Screw, Cap - Hex Head (M5 x 8 MM) Solenoid Terminal
9	850-2005	1	*Washer, Lock - Spring (M5) Solenoid Terminal
10	191-0311	1	Spacer, Flange
11	800-0053	1	Screw, Cap - Hex Head (3/8-16 x 1-3/4")
12	CABLE, BATTERY 416-0021	2	Sets Without Skid Base (20-1/2")
	416-0037	2	Sets With Skid Base (48")
13	416-0133	1	Cable, Battery Jumper
14	416-0096	1	Clamp, Battery Cable
15	800-0047	1	Screw, Cap - Hex Head (3/8-16 x 5/8")
16	856-0010	1	Washer, Lock - EIT (3/8")

## STARTER PARTS (BEGIN SPEC AD)



XES-1361

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	191-1399	1	Starter
1	191-1450	1	Screw Set
2	191-1479	1	Bracket, Front - Includes Bearing
3	191-1431	1	Bolt Set
4	191-1486	1	Switch
5	191-1446	1	Gear
6	191-1482	1	Clutch
7	191-1444	1	Cover Set
8	191-1483	1	Pinion Set (Includes Parts Marked *)
9	191-1442	1	*Stopper Set
10	191-1484	1	Lever
11	191-1440	1	Spring Set
12	191-1439	1	Bracket, Center
13	191-1438	1	Armature Assembly (Includes Parts Marked #)
14	191-1437	1	#Bearing, Center
15	191-1436	1	#Bearing, Rear
16	191-1485	1	Yoke - Includes Pole Shoes, Field Coil and Positive Brushes
17	191-1434	1	Holder Assembly, Brush (Includes Negative Brushes and Parts Marked ‡)
18	191-1433	4	‡Spring, Brush
19	191-1432	1	Bracket, Rear

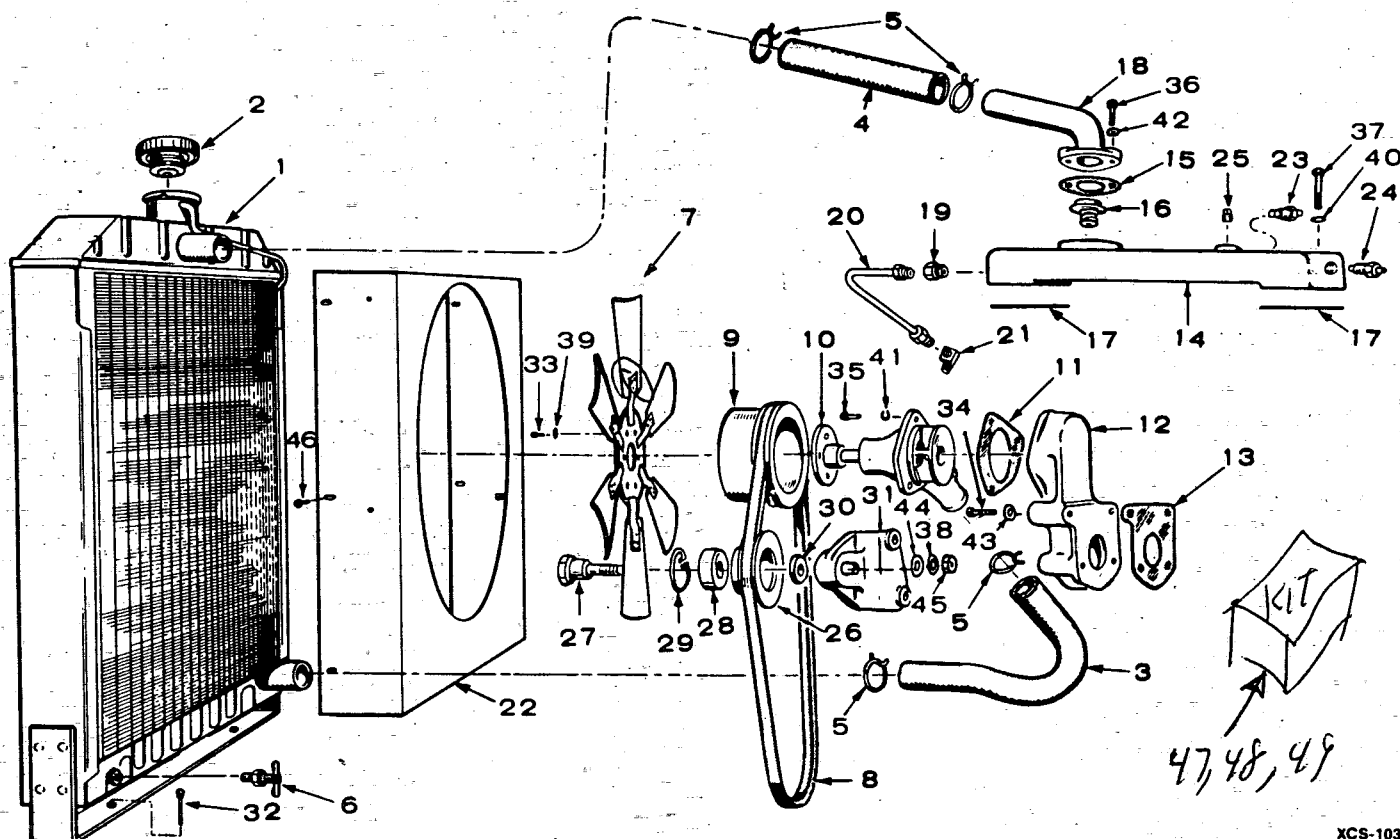
\* - Parts Included in 191-1483 Pinion Set

# - Parts Included in 191-1438 Armature Assembly

‡ - Parts Included in 191-1434 Brush Holder Assembly

ER 33188 S/N Break Coming  
 Calls for New Radiator ① 130-3552 - SPEC AD  
 May Require New Hose ③  
 Requires New Shroud ② 130-3551

## RADIATOR COOLING SYSTEM



XCS-1030

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
47	132-0082	1	Repair Kit, Water Pump - Spec A through C (Includes Shaft, Bearing, Impeller, Fan Hub, Seal and Mounting Gasket)
①	RADIATOR		
	130-0569	1	Spec A through AB
	130-1551	1	Begin Spec AC
2	CAP, RADIATOR		
	130-0553	1	Spec A through AB
	130-1672	1	Begin Spec AC
③	HOSE, LOWER RADIATOR		
	503-0204	1	Spec A through AB
	503-1049	1	Begin Spec AC
4	503-0400	1	Hose, Upper Radiator Spec A thru AB
5	503-0129	4	Clamp, Radiator Hose Spec AC & up
6	504-0003	1	Valve, Radiator Drain
7	FAN, RADIATOR		
	130-0343	1	Spec A through AB (4 Blades)
	130-1552	1	Begin Spec AC (6 Blades)
8	BELT, FAN		
	511-0066	1	Spec A through AB
	511-0101	1	Begin Spec AC
9	512-0039	1	Pulley, Water Pump
10	PUMP, WATER		
	132-0105	1	Spec A through C - Replacement Kit (Includes Parts Marked *)
11	132-0072	1	*Gasket, Water Pump Mounting

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
12	HOUSING, WATER PUMP	1	Spec A through C (Order 132-0105 Water Pump Kit)
	131-0186	1	*Begin Spec D
13	131-0139	1	*Gasket, Water Pump Housing
14	131-0137	1	Housing, Water Outlet Cylinder Head
15	131-0140	1	Gasket, Water Outlet Elbow
16	309-0054	1	Thermostat
17	309-0145	2	Gasket, Water Outlet Housing
18	131-0138	1	Elbow, Water Outlet
19	502-0036	1	Connector, Inverted Male - By-Pass Line to Housing
20	130-0592	1	Line, Water By-Pass
21	502-0043	1	Elbow, Inverted Male - By-Pass Line to Pump
22	130-1673	1	Shroud, Fan - Begin Spec AC
23	309-0179	1	Switch, High Temperature Cut-Off (Not Used on Pennsylvania Approved Sets)
24	SENDER, WATER TEMPERATURE		
	193-0104	1	Spec A through AA
	193-0246	1	Begin Spec AB
25	PLUG, SQUARE HEAD - Water Outlet Housing		
	505-0110	1	3/8" (Pennsylvania Approved Sets Use 2)
	505-0054	1	1/4" Used on Early Models
26	130-0557	1	Pulley, Idler
27	130-0556	1	Shaft, Idler Pulley
28	510-0025	1	Bearing, Ball

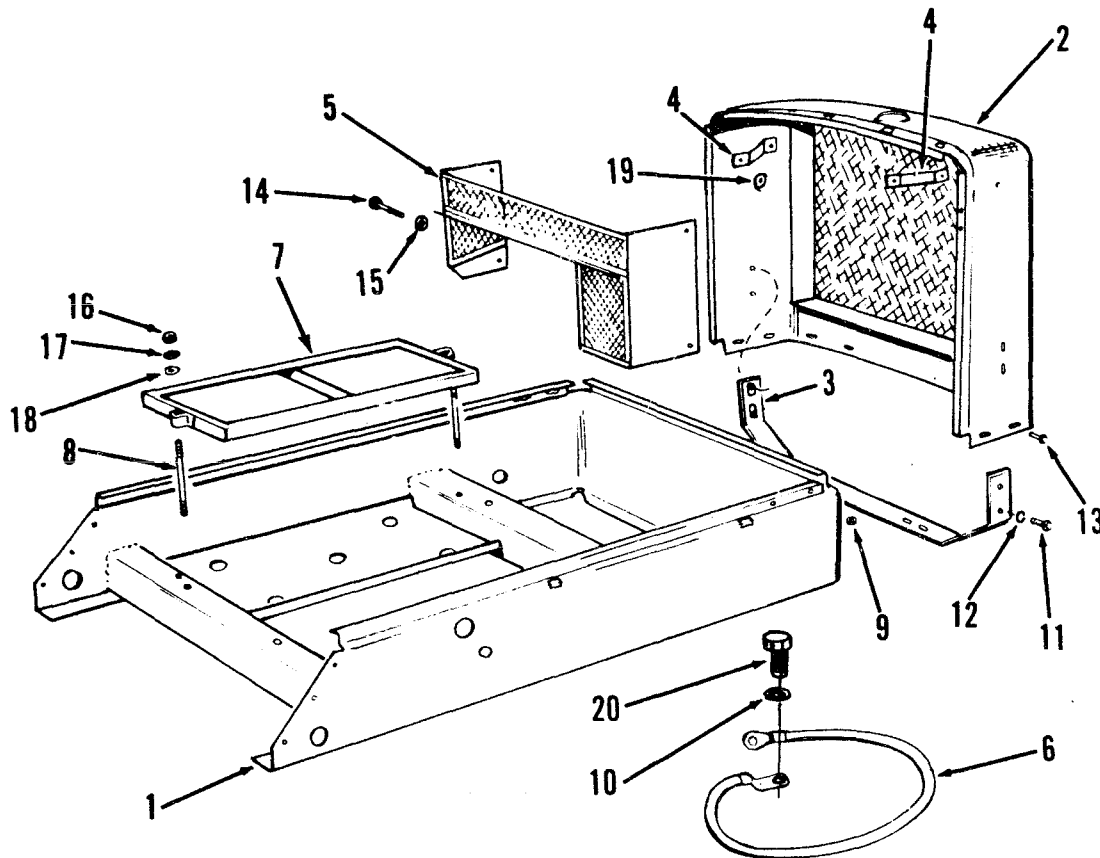
## RADIATOR COOLING SYSTEM

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
29	518-0210	1	Ring, Snap
30	130-0560	1	Spacer, Idler Pulley
31	BRACKET, IDLER PULLEY	1	Spec A through C (Order 132-0105 Water Pump Kit)
	130-0680	1	*Begin Spec D
32	816-0152	2	Bolt, Carriage (3/8-16 x 2") Radiator to Radiator Mounting Support
33	SCREW, CAP - HEX HEAD (Fan and Pulley Mounting)		
	800-0027	4	Spec A through C (5/16-18 x 7/8")
	800-0029	4	Begin Spec D (5/16-18 x 1-1/8")
34	SCREW, CAP - HEX HEAD (Water Pump Housing Mounting)		
	800-0064	2	*Begin Spec D (3/8-16 x 4-1/2")
	800-0057	2	Begin Spec D (3/8-16 x 2-3/4")
	800-0058	2	*Replacement Kit (3/8-16 x 3")
35	SCREW, CAP - HEX HEAD (Water Pump Mounting)		
	800-0027	2	5/16-18 x 7/8"
	800-0031	1	5/16-18 x 1-1/2"
36	800-0030	2	Screw, Cap - Hex Head (5/16-18 x 1-1/4") - Water Outlet Elbow Mounting

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
37	800-0034	4	Screw, Cap - Hex Head (5/16-18 x 2-1/4") - Water Outlet Housing Mounting
	WASHER, LOCK - SPRING		
38	850-0060	1	1/2" - Idler Puller Mounting
39	850-0045	4	5/16" - Fan and Pulley Mounting
	WASHER, FLAT - COPPER (21/64" ID x 9/16" OD x 1/16" Thk)		
40	526-0065	4	Water Outlet Housing Mounting
41	526-0065	3	Water Pump Mounting
42	526-0065	2	Water Outlet Elbow Mounting
43	526-0066	4	*Washer, Flat - Copper 25/64" ID x 9/16" OD x 1/16" Thk Water Pump Housing Mounting
44	526-0219	1	Washer, Flat - Steel (17/32" ID x 1" OD x 1/8" Thk) Idler Pulley Mounting
45	110-0707	1	Nut, Idler Pulley Mounting (Special)
46	815-0531	6	Screw, Hex Head Washer (#8-32 x 3/8") - Shroud to Radiator

\* - Parts Included in 132-0105 Water Pump Replacement Kit.

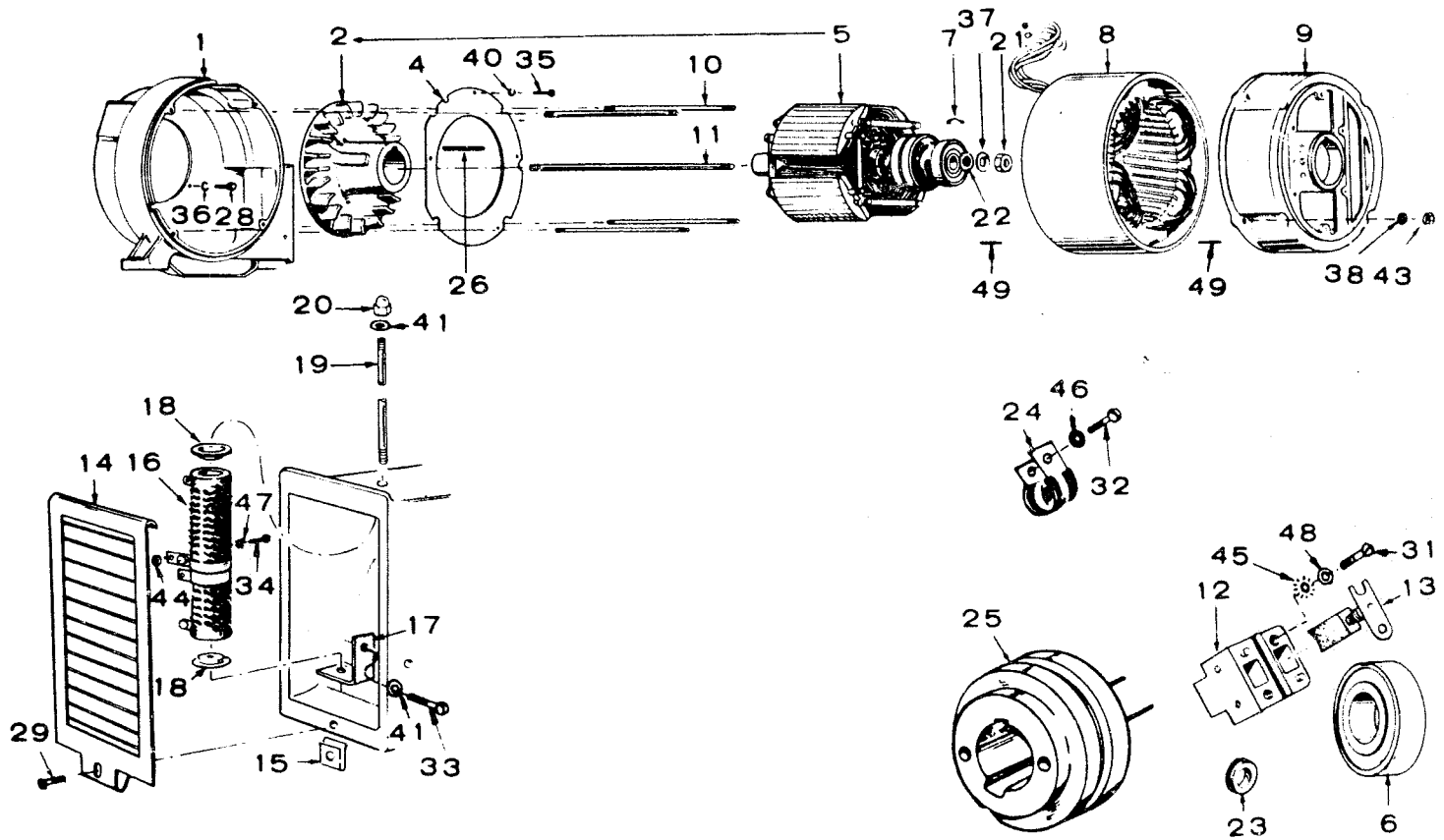
# CHASSIS



M-1562

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	CHASSIS			11	800-0024	4	Screw, Cap - Hex Head (5/16-18 x 1/2")
	403-0658	1	Spec A				Radiator Bracket to
			Begin Spec B				Front End Panel
	403-0718	1	Sets Without Integral	12	850-0045	4	Washer, Lock - Spring (5/16")
			Fuel Tank				Radiator Bracket to
	403-1670	1	Sets With Integral				Front End Panel
			Fuel Tank	13	821-0014	8	Screw, Locking Head (5/16-18 x 1/2")
2	PANEL, FRONT END (Radiator Grille)						Front Panel to Chassis
	405-1079	1	Spec A Through AB	14	800-0048	4	Screw, Cap - Hex Head (3/8-16 x 3/4")
	405-2602	1	Begin Spec AC				Fan Guard to Radiator
3	130-0396	1	Support, Radiator Mounting	15	850-0050	4	Washer, Lock - Spring (3/8")
4	BRACKET, RADIATOR						Fan Guard to Radiator
	130-0397	2	Spec A Through AB	16	862-0015	4	Nut, Hex (5/16-18) Battery
	130-1681	2	Begin Spec AC (Includes Washers)				Holddown
5	GUARD, FAN			17	526-0024	2	Washer, Flat (21/64" ID x 3/4" OD x 1/16" Thk)
	130-0623	1	Spec A Through AB				Battery Holddown
	130-1684	1	Begin Spec AC	18	850-0045	4	Washer, Lock - Spring (5/16")
6	336-0476	1	Lead, Ground (12-1/4")				Battery Holddown
7	416-0495	1	Frame, Battery Holddown	19	526-0013	16	Washer, Flat (25/64" ID x 1" OD x 1/16" Thk)
8	520-0669	2	Stud, Battery Holddown				Radiator Bracket
			Frame	20	800-0047	1	Screw, Cap - Hex Head (3/8-16 x 5/8")
9	862-0003	2	Nut, Hex (3/8-16) Radiator to Chassis				
10	856-0010	1	Washer, Lock - EIT (3/8")				

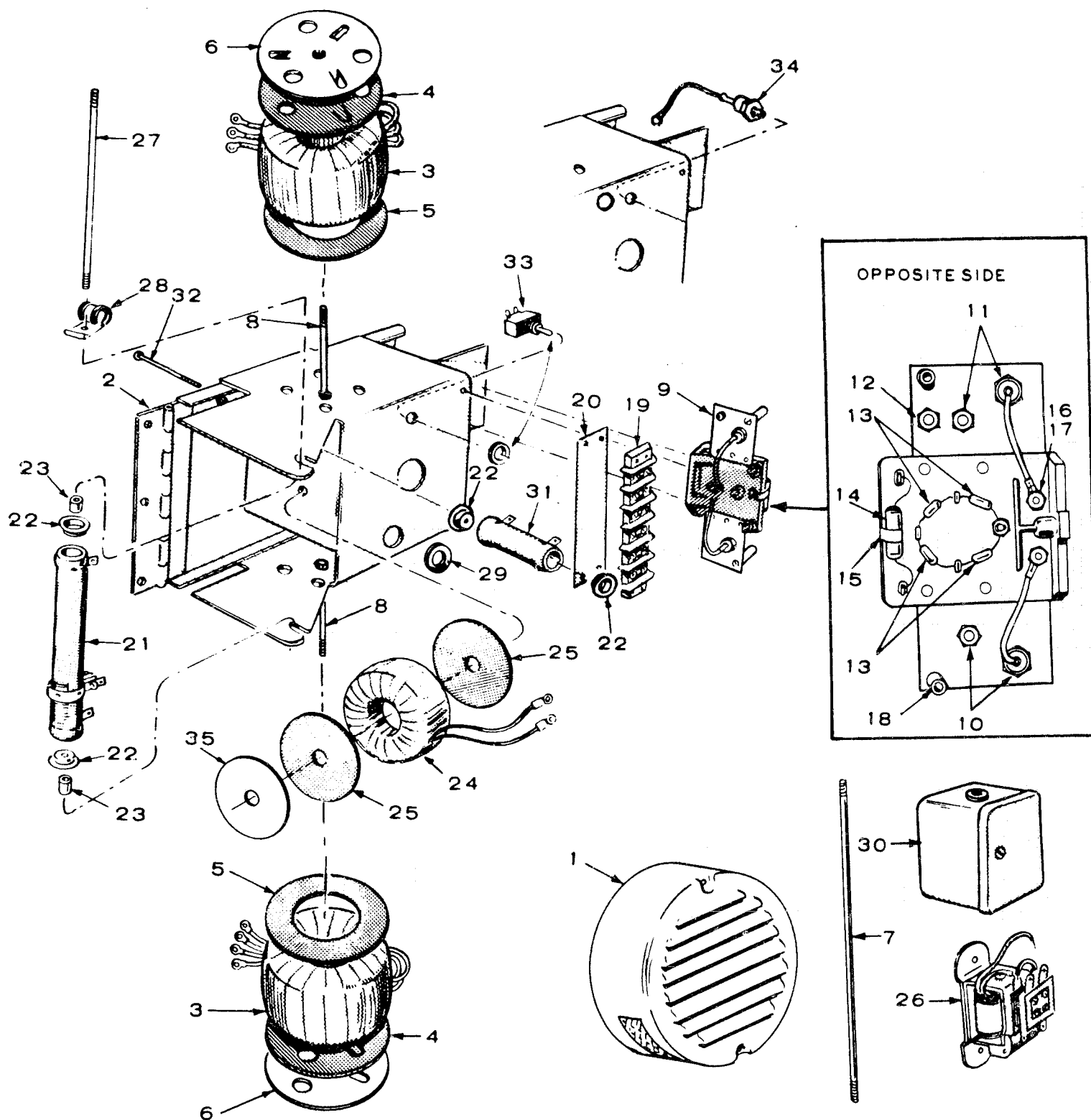
# GENERATOR - SPEC A THROUGH Z



## GENERATOR - SPEC A THROUGH Z

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	ADAPTER, ENGINE TO GENERATOR			24	332-0050	1	Clip, Brush Wires
	231-0096	1	Spec A Only	25	204-0061	1	Ring, Collector
	231-0112	1	Spec B through Z	26	515-0103	1	Key, Blower to Rotor
2	205-0064	1	Blower, Generator	28	SCREW, HEX CAP		
4	234-0162	1	Baffle, Generator Air		800-0050	2	Adapter Mounting (3/8-16 x 1")
5	201-1122	1	Rotor Assembly, Wound (Includes Bearing and Blower)		800-0051	2	Adapter Mounting (3/8-16 x 1-1/4")
6	510-0047	1	Bearing, Rotor		SCREW, ROUND HEAD		
7	232-0596	1	Clip, Bearing Stop	29	812-0102	1	Air Outlet Cover Mounting (10-24 x 5/8")
8	STATOR, WOUND			31	812-0085	4	Brush Block Mounting (8-32 x 1-1/8")
			<b>50 Hertz</b>	32	811-0098	1	Brush Wires Clip Mounting (10-32 x 3/8")
	220-0797	1	120/240 Volt	33	812-0150	1	Resistor Mounting Bracket (1/4-20 x 5/8")
	220-0871	1	220/380 Volt	34	811-0098	1	Tapped Adjustable Resistor Mounting (10-32 x 3/8")
			<b>60 Hertz</b>	35	813-0098	5	Generator Air Baffle Mounting (10-32 x 3/8")
			120/240 Volt		WASHER, LOCK		
	220-0736	1	Single Phase Sets	36	850-0050	4	Adapter Mounting (3/8")
	220-0766	1	Three Phase Sets	37	850-0055	1	Rotor Stud (7/16")
	220-0737	1	120/208 Volt	38	850-0045	4	Generator Through Stud (5/16")
	220-0756	1	277/480 Volt	40	850-0030	5	Generator Air Baffle Mounting (#10)
	220-0768	1	347/600 Volt	41	850-0040	2	Resistor Bracket and Resistor Mounting (1/4")
	220-0766	1	Broad Range Reconnectable Sets		NUT		
9	BELL, END - ALTERNATOR TO EXCITER			43	862-0015	4	Generator Through Stud (5/16-18)
	211-0146	1	Sets Without Overspeed Switch	44	871-0010	1	Tapped Adjustable Resistor Mounting (10-32)
	211-0152	1	Sets With Overspeed Switch		WASHER, LOCK - TOOTH		
10	520-0640	4	Stud, Generator Through	45	856-0002	4	Brush Block Mounting (#8)
11	520-0615	1	Stud, Rotor Through	46	856-0003	1	Brush Wires Clip Mtg. (#10)
12	212-1064	2	Block, Collector Ring Brush	47	856-0003	1	Tapped Adjustable Resistor Mounting (#10)
13	214-0059	4	Brush, Collector Ring	48	526-0049	4	Washer, Flat - Brush Block Mounting
14	234-0199	1	Cover, Air Outlet	49	516-0138	2	Pin, Roll (3/16" x 9/16") Alignment
15	870-0177	1	Clip, Air Outlet Cover				
16	304-0500	1	Resistor, Tapped Adjustable				
17	232-1565	1	Bracket, Resistor Mounting				
18	304-0006	2	Washer, Resistor Centering				
19	520-0620	1	Stud, Resistor Mounting				
20	866-0001	1	Nut, Resistor Mounting (1/4-20)				
21	870-0203	1	Nut, Rotor Stud (7/16-20)				
22	232-0200	1	Washer, Rotor Stud				
23	GROMMET, RUBBER						
	508-0095	1	Air Baffle				
	508-0112	1	Generator Adapter				

## GENERATOR EXCITER - SPEC A THROUGH Z



**NOTE:** 06SX1N1B used on all 60 Hertz sets, Spec A through N.  
 06SX1N1B used on 60 Hertz, 120/240 Volt and 277/480 Volt, 3 Phase sets, Begin Spec P.  
 06SX1N3B used on all 60 Hertz sets except 120/240 Volt and 277/480 Volt, 3 Phase sets Begin Spec P.  
 06SX51N1B used on all 50 Hertz sets Spec A through N.  
 06SX51N3B used on all 50 Hertz sets Begin Spec P

Check set nameplate for magneciter number and use correct column.

## GENERATOR EXCITER - SPEC A THROUGH Z

REF NO.	PART NUMBER	PART DESCRIPTION	QUANTITY USED										
			A	B	C	D	E	F	G	H	J	K	
		02SX1N1A Use Column A	X										
		04SX1N1A Use Column B		X									
		04SX1N1B Use Column C			X								
		04SX1N3B Use Column D				X							
		06SX1N1A Use Column E					X						
		06SX1N1B Use Column F						X					
		06SX1N3B Use Column G							X				
		06SX51N1A Use Column H								X			
		06SX51N1B Use Column J									X		
		06SX51N3B Use Column K										X	
	209-0001	Exciter, Complete (Less Cover)	1										
	209-0002	Exciter, Complete (Less Cover)		1									
	209-0003	Exciter, Complete (Less Cover)			1								
	209-0005	Exciter, Complete (Less Cover)				1							
	209-0007	Exciter, Complete (Less Cover)					1						
	209-0008	Exciter, Complete (Less Cover)						1					
	209-0010	Exciter, Complete (Less Cover)							1				
	209-0011	Exciter, Complete (Less Cover)								1			
	209-0012	Exciter, Complete (Less Cover)									1		
	209-0013	Exciter, Complete (Less Cover)										1	
1	234-0154	• Cover, Exciter	1	1			1			1			
1	234-0185	• Cover, Exciter			1	1		1	1		1	1	
2	234-0153	Panel Only, Exciter	1	1			1			1			
2	234-0188	Panel Only, Exciter			1	1		1	1		1	1	
3	315-0084	Reactor, Gate	2										
3	315-0099	Reactor, Gate		2	2	2							
3	315-0102	Reactor, Gate					2	2	2				
3	315-0104	Reactor, Gate								2	2	2	
4	232-1553	Gasket, Gate Reactor Mounting - Outer	2	2	2	2		2	2		2	2	
4	232-1608	Gasket, Gate Reactor Mounting - Outer					2			2			
5	232-1551	Gasket, Gate Reactor Mounting - Inner	2	2	2	2	2	2	2	2	2	2	
6	232-1552	Retainer, Gate Reactor	2	2	2	2		2	2		2	2	
6	234-0191	Retainer, Gate Reactor					2			2			
7	520-0211	Stud, Gate Reactor Mounting	1	1			1			1			
8	800-0013	Screw, Cap - Hex Head (1/4-20 x 2-1/2")			2	2							
8	800-0015	Screw, Cap - Hex Head (1/4-20 x 3")						2	2		2	2	
9	305-0259	Rectifier Assembly (Includes Parts Marked †)	1	1	1								
9	305-0387	Rectifier Assembly (Includes Parts Marked Δ)				1							
9	305-0264	Rectifier Assembly (Includes Parts Marked *)					1	1		1	1		
9	305-0388	Rectifier Assembly (Includes Parts Marked £)								1		1	
10	305-0238	†Δ£ Rectifier Only, Power Field (Negative)	2	2	2	2	2	2	2	2	2	2	
11	305-0239	†Δ£ Rectifier Only, Power Field (Positive)	2	2	2	2	2	2	2	2	2	2	
12	305-0239	Δ£ Rectifier Only, Field Flash				1			1			1	
13	305-0240	†Δ£ Rectifier, Voltage Control	4	4	4	4	4	4	4	4	4	4	

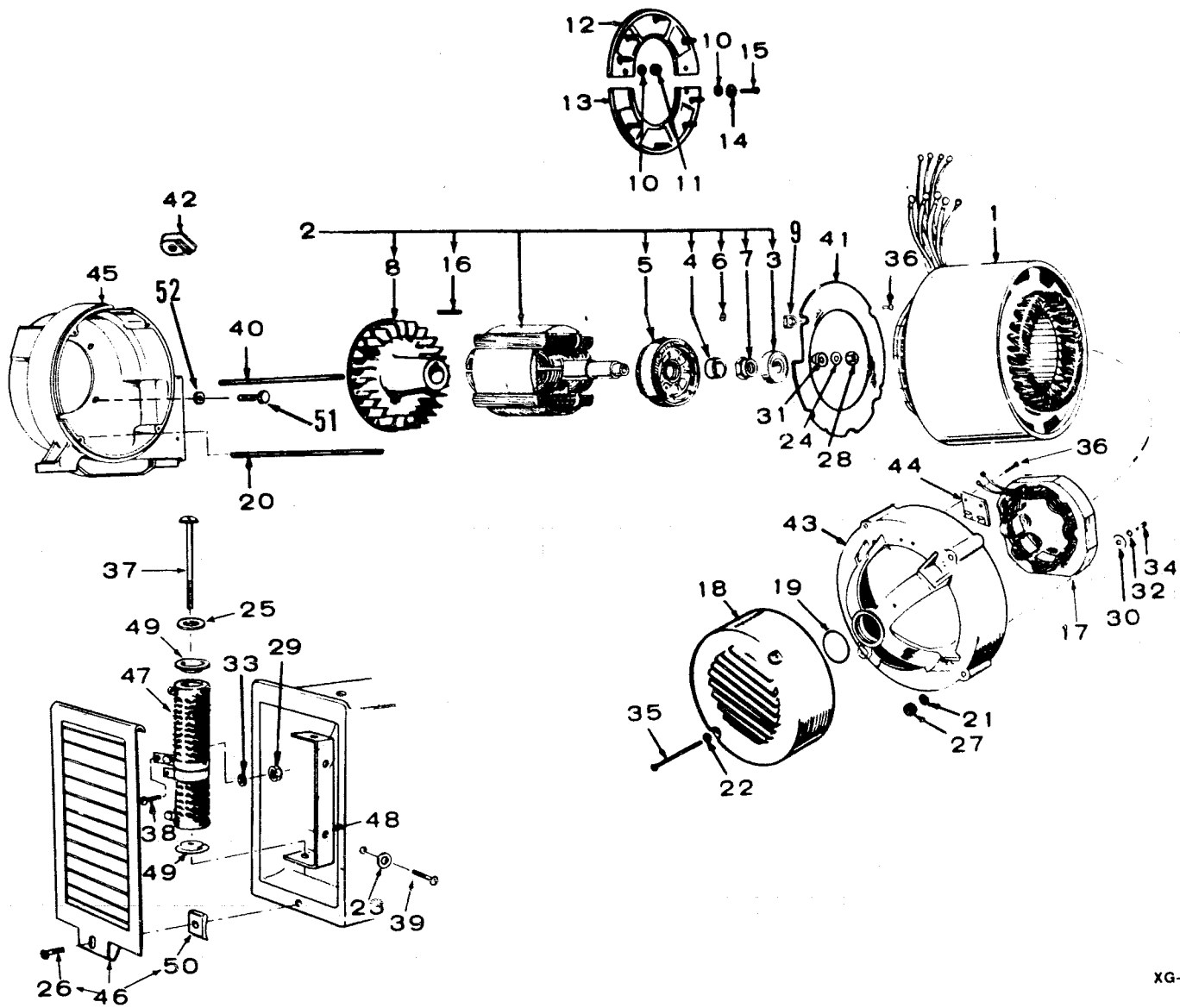
## GENERATOR EXCITER - SPEC A THROUGH Z

REF NO.	PART NUMBER	PART DESCRIPTION	QUANTITY USED									
			A	B	C	D	E	F	G	H	J	K
14	304-0476	†ΔResistor (500-Ohm, 5 Watt)	1	1	1	1						
14	304-0512	*£Resistor (150-Ohm, 50 Watt)					1	1	1	1	1	1
15	304-0498	†Δ*£Clip, Resistor Mounting	1	1	1	1	1	1	1	1	1	1
16	332-0697	†Δ*£Stud, Terminal (Flat Head)	2	2	2	2	2	2	2	2	2	2
17	332-0698	†Δ*£Stud, Terminal (Extended Slotted Head)	1	1	1	1	1	1	1	1	1	1
18	870-0196	†Δ*£Fastener (Compression Type)	2	2	2	2	2	2	2	2	2	2
19	332-0699	Block, Terminal	1	1			1			1		
19	332-0745	Block, Terminal			1	1		1	1		1	1
20	332-0700	Strip, Block Marker	1									
20	332-0738	Strip, Block Marker		1			1			1		
20	332-0746	Strip, Block Marker			1			1			1	
20	332-0925	Strip, Block Marker				1			1			1
21	304-0489	Resistor, Fixed (200-Ohm, 50 Watt)	1									
21	304-0511	Resistor, Tapped - 500-Ohm (425 Fixed, 75 Adj.)		1			1			1		
21	304-0527	Resistor, Tapped - 500-Ohm (425 Fixed, 75 Adj.)			1	1		1	1		1	1
22	304-0015	Washer, Centering - Resistor	2	4	4	4	4	4	4	4	4	4
23	232-1473	Spacer, Resistor Mounting	2									
23	232-1550	Spacer, Resistor Mounting		2			2			2		
23	232-1474	Spacer, Resistor Mounting			2	2		2	2		2	2
24	315-0085	Reactor, Voltage Control	1									
24	315-0100	Reactor, Voltage Control		1	1	1	1	1	1			
24	315-0105	Reactor, Voltage Control								1	1	1
25	232-1548	Gasket, Voltage Control Reactor	2	2	2	2	2	2	2	2	2	2
26	307-0584	Relay, Field Build-Up	1									
27	520-0641	Stud, Tapped Resistor Mounting	1		1	1		1	1		1	1
27	812-0116	Screw, Tapped Resistor Mounting (RHMS #10-24 x 4-1/2")		1				1			1	
28	332-0050	Clip, Loop	1	1			1			1		
28	332-0052	Clip, Loop			1	1		1	1		1	1
29	508-0008	Grommet, Rubber (For 7/8" Hole)	1	1	1	1	1	1	1	1	1	1
30	307-0643	Cover, Field Relay	1									
31	304-0510	Resistor, Fixed (250-Ohm, 25 Watt)		1	1	1	1	1	1	1	1	1
32	813-0112	Screw, Fixed Resistor Mounting (RHSMS #10-32 x 2-1/2")		1	1	1	1	1	1	1	1	1
33	308-0175	Switch, Residual Reset			1			1			1	
34	305-0238	Rectifier, Power Field - Negative				1			1			1
35	526-0173	Washer, Retainer - Voltage Control Reactor	1	1	1	1	1	1	1	1	1	1
ASSOCIATED HARDWARE (NOT ILLUSTRATED)												
		SCREW, MACHINE - ROUND HEAD										
	812-0156	1/4-20 x 1-1/2"							As Required			
	813-0101	#10-32 x 9/16"							As Required			
	811-0098	#10-32 x 3/8" (Brass)							As Required			
	813-0098	#10-32 x 3/8"							As Required			
	815-0190	#8-32 x 3/8"							As Required			
	815-0198	#8-32 x 5/8"							As Required			
	815-0001	Screw, Machine - Binder Head (Brass) (#6-32 x 1/4")							As Required			

## GENERATOR EXCITER - SPEC A THROUGH Z

[illegible]

**GENERATOR - BEGIN SPEC AA**



**XG-1074**

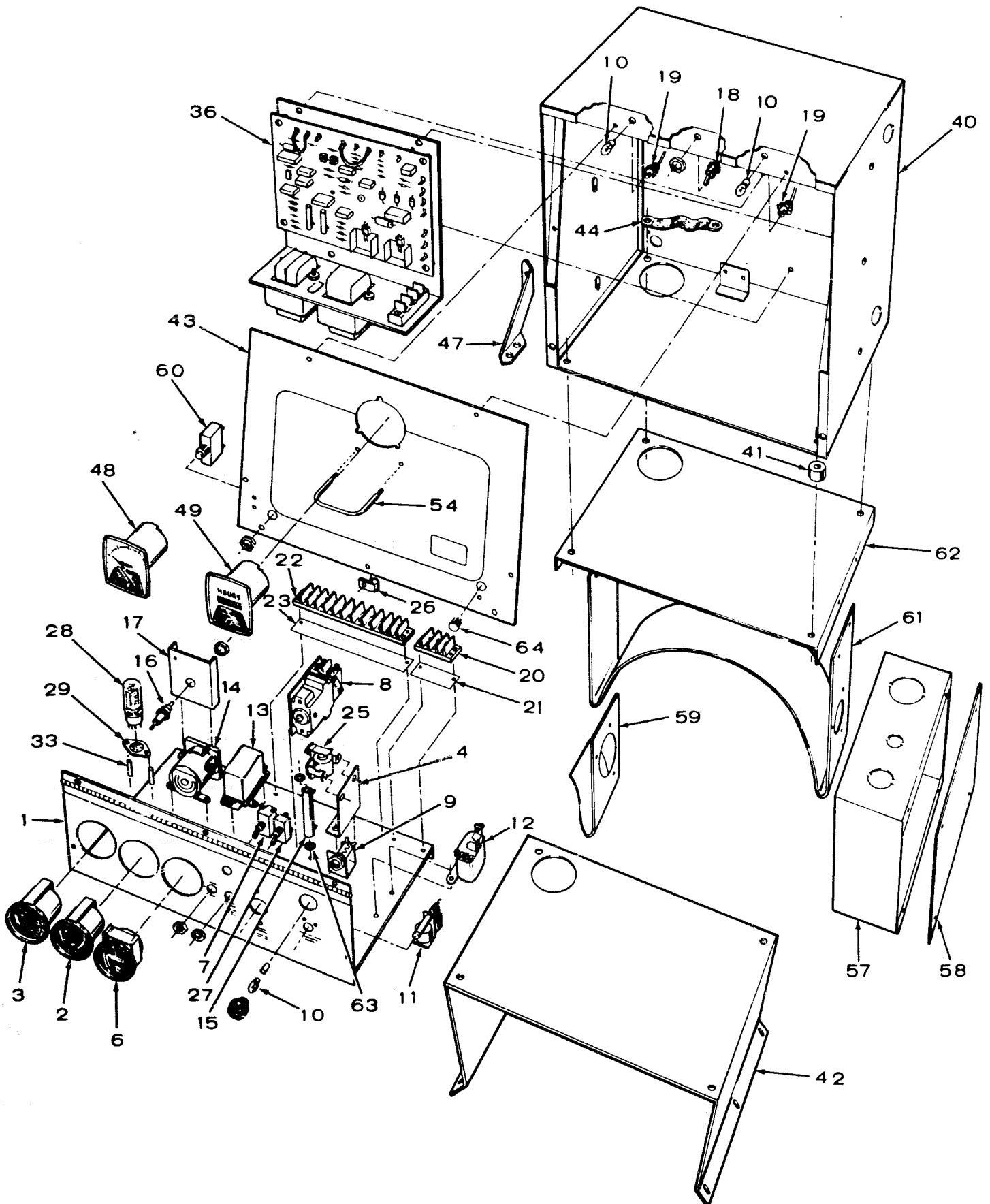
## GENERATOR - BEGIN SPEC AA

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	STATOR, GENERATOR			25	853-0013	1	Washer, Lock (1/4" ET) - Resistor Through Screw
	220-2026	1	12.5 RDJC Single Phase	26	809-0046	1	#Screw, Sheet Metal - Round Head (#10 x 3/4")
	220-2051	1	12.5 RDJC Three-Phase	27	862-0011	4	Nut, Hex (3/8-16) - Generator Through Stud
	220-2042	1	13.0 RDJC 120/208 Volt	28	870-0203	1	Nut, Hex (7/16-20) - Rotor Through Stud
	220-2017	1	13.0 RDJC 120/240 Volt	29	871-0010	1	Nut, Hex - Brass (#10-32) Resistor Tap
	220-2043	1	13.0 RDJC 277/480 Volt	30	526-0260	2	Washer, Flat (Special) - Exciter Stator
	220-2043	1	13.0 RDJC Broad Range Sets	31	232-0200	1	Washer - Cone Shaped (Special) Rotor Through Stud
	220-2018	1	15.0 RDJC Single Phase Three Phase	32	853-0013	2	Washer, Lock (1/4" ET) - Exciter Stator
	220-2043	1	15.0 RDJC All Except 347/600 Volt	33	856-0003	1	Washer, Lock (#10 EIT) - Resistor Tap
	220-2286	1	15.0 RDJC 347/600 Volt	34	800-0004	2	Screw, Cap - Hex Head (1/4-20 x 5/8") - Exciter Stator Mounting
2	ROTOR ASSEMBLY, GENERATOR (Includes Parts Marked *)			35	SCREW, MACHINE - ROUND HEAD (End Bell Cover Mounting)		
	201-2158	1	All Except 13.0 RDJC 13.0 RDJC		812-0165	2	Sets Without Housing Sets Without Overspeed Switch (1/4-20 x 4-1/2")
	201-2157	1	13.0 RDJC 120/208 and 120/240 Volt		812-0167	2	Sets With Overspeed Switch (1/4-20 x 6")
	201-2158	1	13.0 RDJC 277/480 Volt and Broad Range Sets		812-0165	2	Sets Without Housing 1/4-20 x 4-1/2")
3	510-0112	1	*Bearing, Rotor	36	815-0194	6	Screw, Hex Head - Thread Cutting With ET (#10-32 x 3/8") Board (2) and Baffle (4) Mounting
4	232-2398	1	*Spacer Bearing	37	812-0169	1	Screw, Machine - Round Head (1/4-20 x 5-1/2") - Resistor Through
5	201-2151	1	*Rotor, Exciter	38	811-0098	1	Screw, Machine - Round Head (Brass) (#10-32 x 3/8") - Resistor Tap
6	515-0094	1	*Key, Exciter Rotor	39	800-0004	2	Screw, Cap - Hex Head (1/4-20 x 5/8") - Resistor Bracket
7	870-0284	1	*Nut, Exciter Rotor Locking	40	520-0790	1	Stud, Rotor Through
8	205-0105	1	*Fan, Generator	41	234-0462	1	Baffle, Air
9	508-0095	1	Grommet, Rubber - Air Baffle	42	508-0112	1	Grommet, Rubber - Generator Adapter
10	526-0008	12	*Washer, Flat (13/64" ID x 7/16" OD x 1/32" Thk)	43	211-0237	1	Bell, End
11	870-0131	8	*Nut, Hex (#10-32)	44	232-2418	1	Board, Connection
12	358-0069	1	*Rectifier Assembly - Positive	45	231-0171	1	Adapter, Generator
13	358-0070	1	*Rectifier Assembly - Negative	46	234-0494	1	Cover Assembly, Air Outlet (Includes Parts Marked #)
14	853-0008	4	*Washer, Shakeproof (#10)	47	304-0500	1	Resistor, Tapped - Adjustable (2 Ohm, 150 Watt)
15	813-0100	4	*Screw, Round Head (#10-32 x 1/2")	48	232-2399	1	Bracket, Resistor Mounting
16	515-0103	1	*Key - Fan to Rotor	49	304-0652	2	Washer, Centering - Resistor Mounting
17	220-2009	1	Stator, Exciter	50	870-0177	1	#Nut, Speed (#10)
18	COVER, END BELL			51	800-0050	4	Screw, Cap - Hex Head (3/8-16 x 1")
	234-0185	1	Sets Without Housing Sets Without Generator Space Heater or Overspeed Switch	52	850-0050	4	Washer, Lock - Spring (3/8")
	234-0498	1	Sets With Overspeed Switch				
	234-0542	1	Sets With Generator Space Heater				
	234-0543	1	Sets With Generator Space Heater and Overspeed Switch				
	234-0223	1	Sets With Housing Sets Without Generator Space Heater				
	234-0541	1	Sets With Generator Space Heater				
19	509-0094	1	Seal, Bearing ("O" Ring)				
20	520-0798	4	Stud, Generator Through				
21	850-0050	4	Washer, Lock - Spring (3/8") - Generator Through Stud				
22	850-0040	2	Washer, Lock - Spring (1/4") - End Bell Cover				
23	850-0040	2	Washer, Lock - Spring (1/4") - Resistor Bracket				
24	850-0055	1	Washer, Lock - Spring (7/16") - Rotor Through Stud				

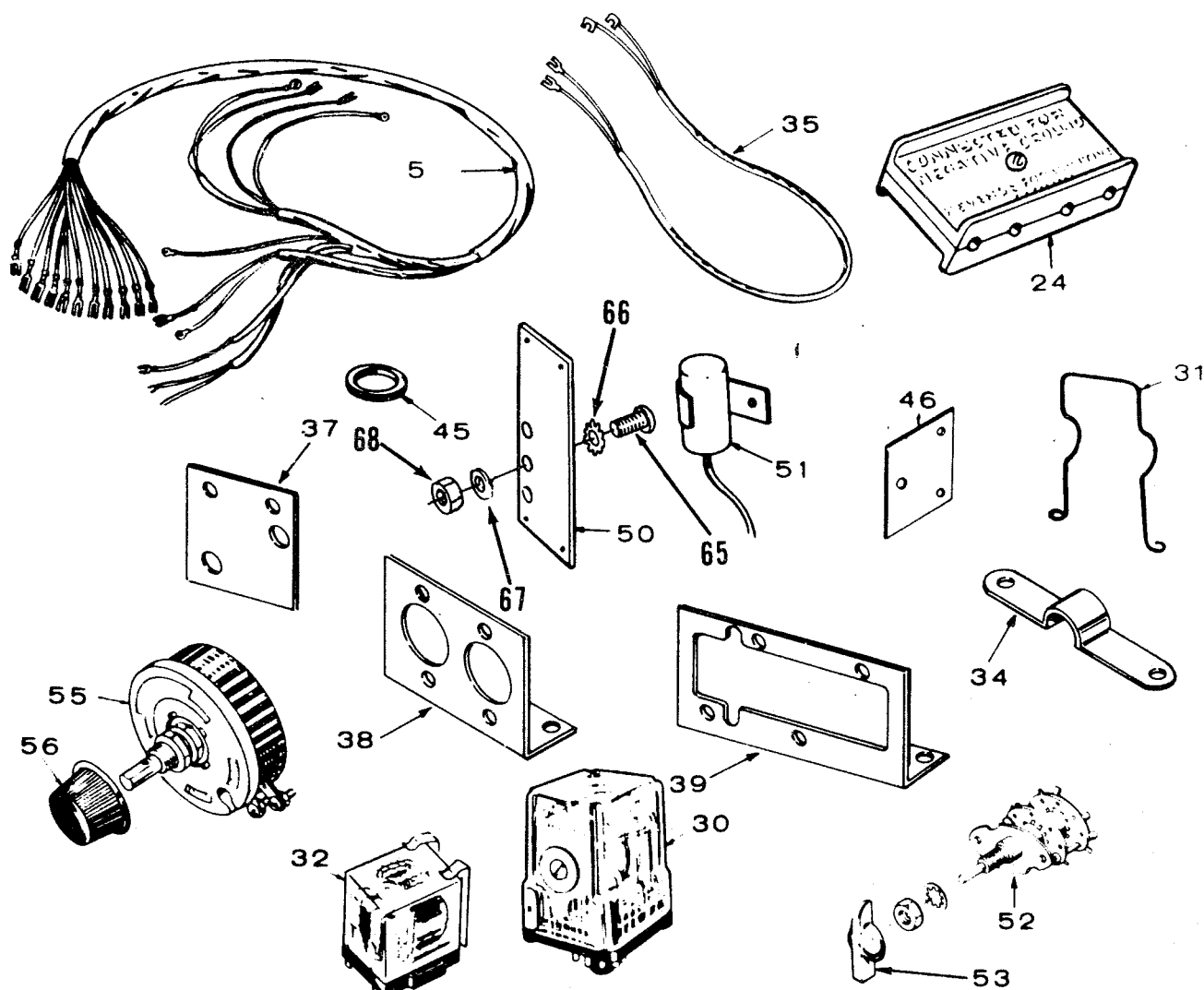
\* - Parts Included in Generator Rotor Assemblies.

# - Parts Included in 234-0494 Cover Assembly.

# CONTROL



# CONTROL



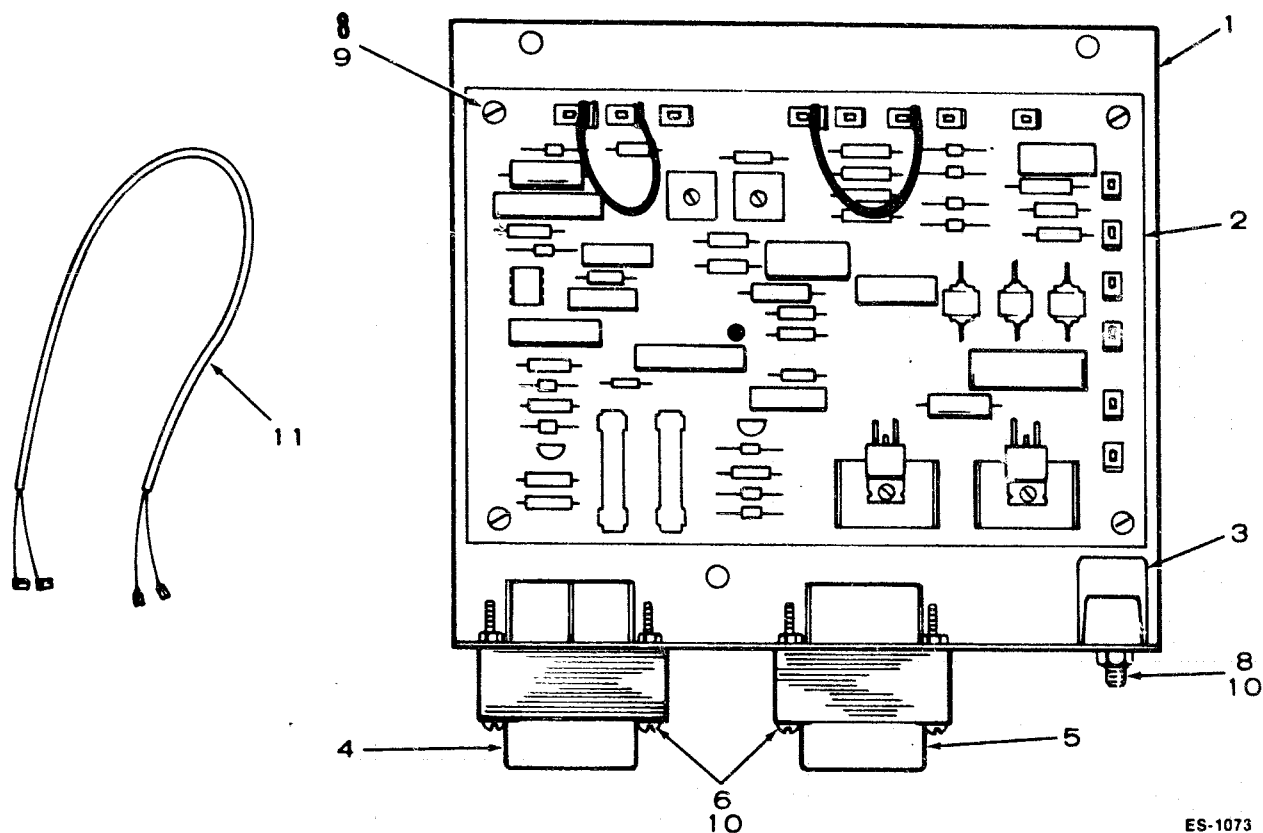
SC-1448

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	PANEL, LOWER CONTROL			9	322-0069	1	Receptacle, Signal Light (Not Used on Pennsylvania Approved Sets)
	301-2124	1	Sets With 1 Signal Light	10	322-0004	3	Bulb, Signal and Panel Light
	301-2125	1	Sets With 4 Signal Lights	11	307-0655	1	Relay, Emergency Latching (Not Used on Pennsylvania Approved Sets)
	301-2895	1	Pennsylvania Approved Sets Without Signal Lights	12	307-0052	1	Relay, Start-Disconnect
2	GAUGE, WATER TEMPERATURE			13	307-0597	1	Relay, Fuel Solenoid
	193-0106	1	Spec A through AA	14	307-0514	2	Relay - Starter Pilot and Manifold Heater
	193-0245	1	Begin Spec AB	15	304-0192	1	Resistor, Cranking Limiter (3 Ohm, 10 Watt)
3	GAUGE, OIL PRESSURE			16	305-0235	1	Rectifier, Charge (10 Amp, 100 Volt) - Includes Mounting Hardware
	193-0107	1	Spec A through AA	17	305-0254	1	Bracket, Rectifier Mounting
	193-0243	1	Spec AB	18	308-0002	1	Switch, Panel Light
	193-0272	1	Begin Spec AC	19	322-0072	2	Receptacle, Panel Light
4	301-1685	1	Bracket, Time Delay Relay Mounting (Sets With Low Oil Pressure Switch)	20	332-0611	1	Block, Terminal - 3 Place
5	338-0298	1	Harness, Wiring - Engine to Control	21	332-1009	1	Strip, Marker - 3 Place
6	302-0446	1	Ammeter, Charge	22	BLOCK, TERMINAL		
7	SWITCH, SELECTOR (Begin Spec U)				332-0607	1	Sets With 1 Signal Light (12 Place)
	308-0220	1	All Except Pennsylvania Approved Sets (Run-Stop-Remote)		332-1005	1	Sets With 4 Signal Lights (20 Place)
	308-0068	1	Pennsylvania Approved Sets (Run-Remote)		332-0795	1	Pennsylvania Approved Sets Without Signal Lights (16 Place)
8	LIMITER, CRANKING						
	320-0104	1	Spec A through AA				
	320-0259	1	Begin Spec AB				

# CONTROL

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
23	STRIP, MARKER		Sets With 1 Signal Light (12 Place)	44	STRAP, GROUND (Unhoused Sets)		
	332-0642	1	Spec A and B (Blank)		337-0044	1	Spec A through Z
	332-0608	1	Begin Spec C		337-0036	1	Begin Spec AA
	332-1006	1	Sets With 4 Signal Lights (20 Place)	45	GROMMET, RUBBER		
	332-0862	1	Pennsylvania Approved Sets Without Signal Lights (16 Place)		508-0063	2	2-3/4" Hole - Unhoused Sets (Housed Sets Use 1)
24	332-0750	1	Kit, Polarity Marker - Spec A through N		508-0183	1	1-3/4" Hole - Output Box
25	307-0388	1	Relay, Time Delay (Sets With Low Oil Pressure Switch)	46	301-0648	1	Plate, Ground - Spec A through Z
26	CLIP, HARNESS SUPPORT			47	301-1914	1	Bracket, Panel Stop
	332-0051	1	7/16" ID	48	VOLTMETER, AC - Pennsylvania Approved Sets		
	332-0052	1	5/8" ID		302-0421	1	Single Phase Sets (Scale Reads 0-300)
27	308-0037	1	Switch, Manifold Heater		302-0422	1	Three Phase Sets (Scale Reads 0-600)
28	307-0645	1	Relay, Time Delay Preheat (20 Seconds) (Not Used on Sets With Continuous Glow Plug Control)	49	METER, RUNNING TIME - Begin Spec AA		
29	323-0321	1	Socket, Time Delay Preheat Relay		302-0468	1	50 Hertz Sets
30	307-0819	1	Relay - Sets With Low Engine Temperature Switch		302-0465	1	60 Hertz Sets
31	307-0778	1	Spring, Relay Holddown - Sets With Low Engine Temperature Switch	50	332-0513	1	Block, Terminal - 4 Place
32	307-0860	1	Relay, Field Build-Up (Pennsylvania Approved Sets)	51	312-0058	3	Condenser (.1 Mfd.) Spec A through Z
33	332-0943	2	Spacer, Relay Socket	52	308-0012	1	Switch, Voltage Selector - Pennsylvania Approved 3 Phase Sets Begin Spec AA
34	332-1043	1	Jumper, Selector Switch - Sets Without Time Delay Preheat Relay	53	303-0076	1	Knob, Voltage Selector Switch - Pennsylvania Approved 3 Phase Sets Begin Spec AA
35	HARNESS, WIRING (Begin Spec AA)			54	301-2727	1	Handle, Upper Control Panel
	338-0763	1	Voltage Regulator to Circuit Breaker	55	303-0197	1	Rheostat (2500 Ohm, 25 Watt) Sets With Voltage Adjustment - Begin Spec AA
	338-0936	1	Voltage Regulator to Running Time Meter	56	303-0032	1	Knob, Rheostat - Sets With Voltage Adjustment - Begin Spec AA
36	305-0583	1	Regulator, Voltage - Begin Spec AA (See Separate Group for Components)	57	301-3682	1	Box, Output - Begin Spec AA
37	306-0195	1	Plate, Starter Relay Mounting - Key 2	58	301-0856	1	Cover, Output Box - Begin Spec AA
	BRACKET, RELAY MOUNTING (Sets With Four Signal Lights)			59	301-3720	1	Bracket, Output Box (Housed Sets) Begin Spec AA
38	301-2393	1	Used for Low Oil Pressure and High Water Temperature Relays or 5 and 10 Second Cycle Cranker Relays	60	320-0505	1	Breaker, Circuit - Voltage Regulator - Begin Spec AA
39	301-3252	1	Used for Generating and Low Engine Temperature Relays	61	301-3715	1	Saddle, Control Box Mounting (Unhoused Sets) Begin Spec AA
40	301-2115	1	Box, Control	62	301-3716	1	Plate, Control Mounting (Unhoused Sets) Begin Spec AA
41	402-0078	4	Mount, Rubber	63	508-0017	2	Washer, Fiber - Resistor Mounting
42	301-2106	1	Bracket, Mounting - Control Bcx (Unhoused Sets) - Spec A through Z	64	517-0015	1	Plug, Dot Button
43	PANEL, UPPER CONTROL (Sets Without Optional Meter Panel)			65	812-0185	3	Screw, Machine - Round Head (5/16-18 x 2-1/4")
			Spec A through Z	66	854-0017	3	Washer, Lock - IT (5/16")
	301-1195	1	All Except Pennsylvania Approved Sets	67	526-0054	3	Washer, Flat (21/64" ID x 3/4" OD x 1/16" Thk)
	301-2019	1	Pennsylvania Approved Sets Begin Spec AA	68	871-0025	3	Nut, Hex - Brass (5/16-18)
	301-2019	1	All Except Pennsylvania Approved Sets				
	301-1788	1	Pennsylvania Approved Sets				

## VOLTAGE REGULATOR - BEGIN SPEC AA



ES-1073

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	305-0583	1	Regulator, Voltage (Includes Parts Marked *)
1	301-3719	1	*Panel, Voltage Regulator Mounting
2	300-1540	1	*Board, Voltage Regulator - Begin Spec AB (Replaces 300-1006 Board Used Prior to Serial Number F760142042 During Spec AA and 300-1404 Board Used Beginning Serial Number F760142042 During Spec AA)
3	332-1655	1	*Strip, Terminal
4	315-0386	1	*Transformer, Voltage
5	315-0391	1	*Reactor
6	812-0070	4	*Screw, Machine - Round Head (#6-32 x 1-1/4")
8	812-0063	6	*Screw, Machine - Round Head (#6-32 x 1/2")
9	853-0003	4	*Washer, Lock - ET (#6)
10	870-0183	6	*Nut, Hex - ET (#6-32)
11	HARNESS, WIRING (Voltage Regulator to Exciter Stator)		
	338-0762	1	Sets Without Overspeed Switch
	338-0768	1	Sets With Overspeed Switch

\* - Parts Included in 305-0583 Voltage Regulator.

## SERVICE KITS AND MISCELLANEOUS

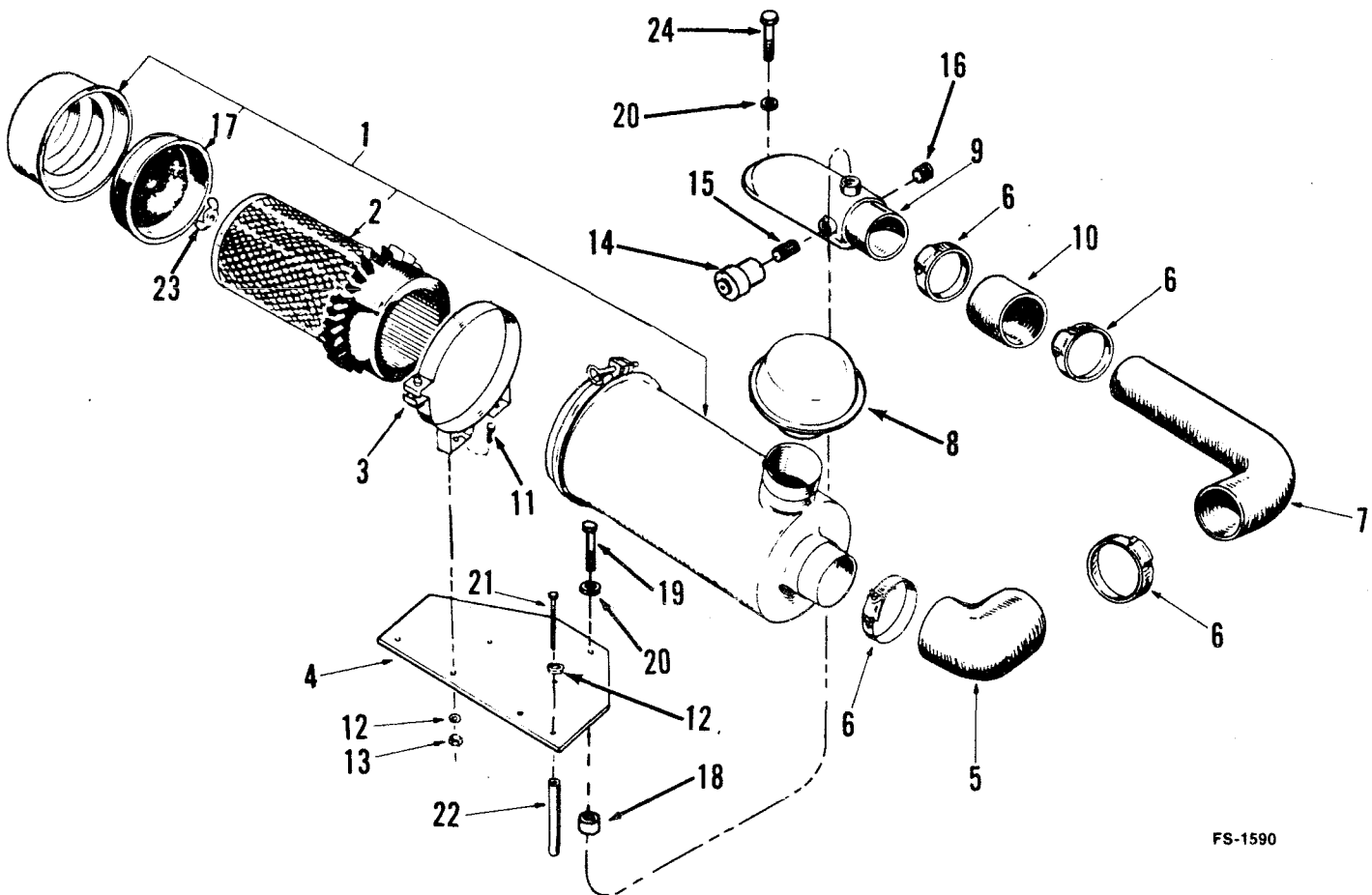
**NOTE:** For other kits refer to the related group.

<b>PART NO.</b>	<b>QTY. USED</b>	<b>PART DESCRIPTION</b>
LABEL KIT		
98-1100	1	General Service
98-2290	1	Diesel
168-0100	1	Gasket Kit, Engine
OVERHAUL KIT, GENERATOR SET		
522-0212	1	Spec A Through R
522-0264	1	Begin Spec S
TOUCH-UP PAINT (13 oz. Pressurized Can)		
525-0137		Metallic Green
525-0305		Non-metallic Green
525-0454		Greige - Enamel

# SPECIAL PARTS SECTION

## LRDJC GENERATOR SETS (RADIATOR COOLED)

### AIR INTAKE SYSTEM



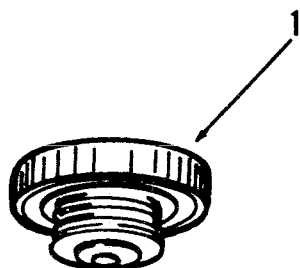
FS-1590

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	140-0721	1	Cleaner, Air (Includes Element and Baffle)	14	140-0961	1	Indicator, Service
2	140-0765	1	Element, Air Cleaner	15	140-1260	1	Fitting, Service Indicator
3	140-0722	2	Band, Air Cleaner Mounting	16	505-0008	1	Plug, Slotted (1/8")
4	140-1557	1	Support, Air Cleaner	17	140-1267	1	Baffle, Air Cleaner
5	503-0419	1	Elbow, Rubber	18	191-0791	1	Spacer, Air Cleaner Support (3/8" Long)
6	503-0365	4	Clamp, Hose	19	800-0017	1	Screw, Cap - Hex Head (1/4-20 x 3-1/2")
7	140-1556	1	Tube, Air Inlet	20	850-0040	2	Washer, Lock - Spring (1/4")
8	140-1559	1	Hood, Air Inlet	21	800-0042	2	Screw, Cap - Hex Head (5/16-18 x 4-1/2")
9	140-1212	1	Adapter, Air Cleaner	22	403-1378	2	Spacer, Air Cleaner Support (3-5/16" Long)
10	503-0330	1	Hose, Connector	23	865-0020	1	Nut, Wing (1/4-20)
11	821-0014	4	Screw, Locking Head - Flange (5/16-18 x 1/2")	24	800-0007	1	Screw, Cap - Hex Head (1/4-20 x 1")
12	850-0045	6	Washer, Lock - Spring (5/16")				
13	870-0257	4	Nut, Self locking - Flange (5/16")				

# SPECIAL PARTS SECTION

## LRDJC GENERATOR SETS (RADIATOR COOLED)

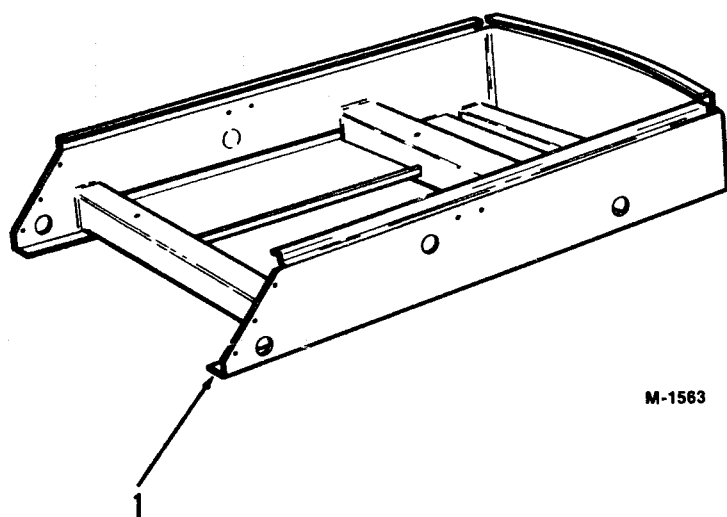
### RADIATOR COOLING SYSTEM



XCS-1030a

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	CAP, RADIATOR		
	130-0553	1	Spec AA
	130-0449	1	Spec AB
	130-1672	1	Spec AC

### CHASSIS



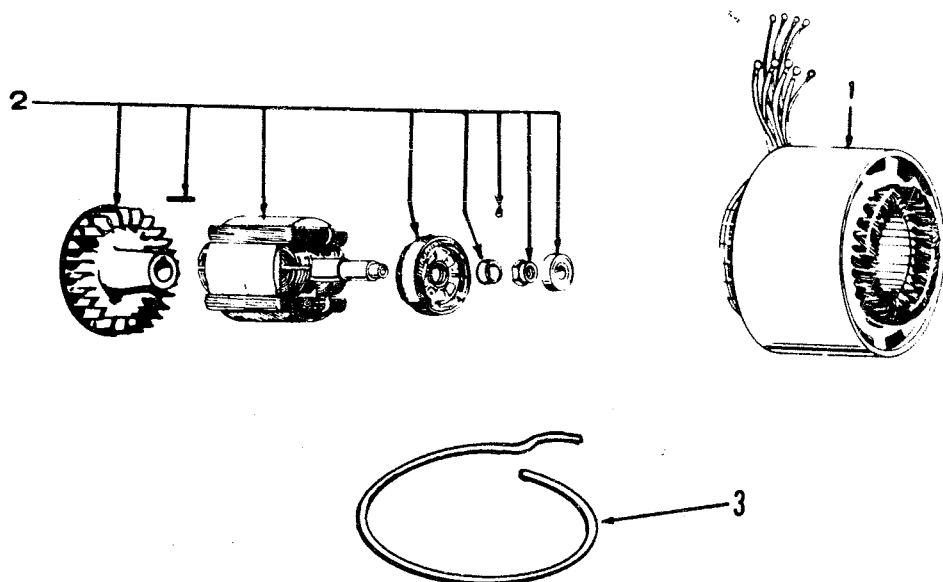
M-1563

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	CHASSIS, MOUNTING (Front Section)		
	403-0718	1	Spec AA
	403-1670	1	Begin Spec AB

# SPECIAL PARTS SECTION

## LRDJC GENERATOR SETS (RADIATOR COOLED)

### GENERATOR



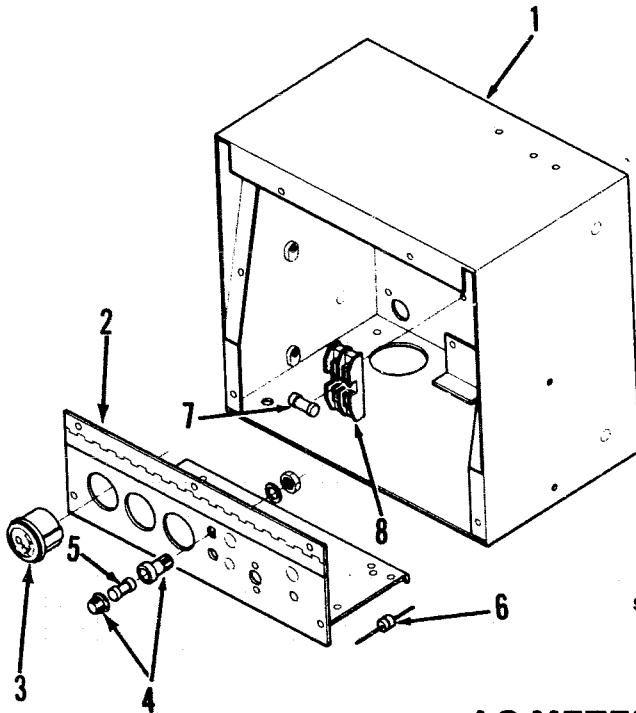
G-1170

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	STATOR, GENERATOR		
	220-2051	1	8.6 LRDJC Three Phase
	220-2043	1	11.3 LRDJC Three Phase
2	201-2158	1	Rotor Assembly, Generator - For Parts Included See Standard Section (Generator - Begin Spec AA)
3	508-0217	1	Edging, End Bell Cover -Begin Spec AB

# SPECIAL PARTS SECTION

## LRDJC GENERATOR SETS (RADIATOR COOLED)

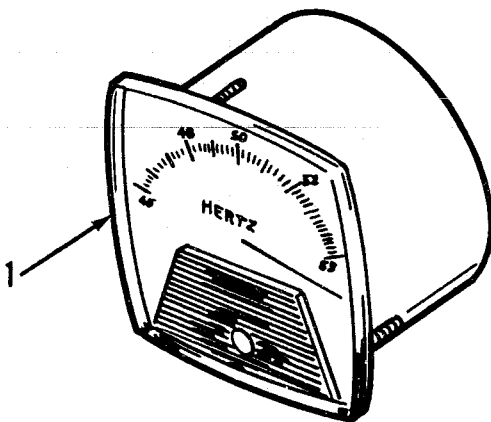
### CONTROL



SC-1451

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	301-4633	1	Box, Control
2	301-4632	1	Panel, Lower Control
3	GAUGE, OIL PRESSURE		
	193-0107	1	Spec AA
	193-0272	1	Begin Spec AB
4	321-0217	1	Holder, Fuse - Charge Ammeter
5	321-0181	1	Fuse - Charge Ammeter (5 Amp, 32 Volt)
6	357-0004	2	Rectifier - Oil Pressure Relay (1) and Start Disconnect Relay (1) - Begin Spec AB
7	321-0223	2	Fuse (15 Amp, 300 Volt)
8	321-0176	1	Holder, Fuse

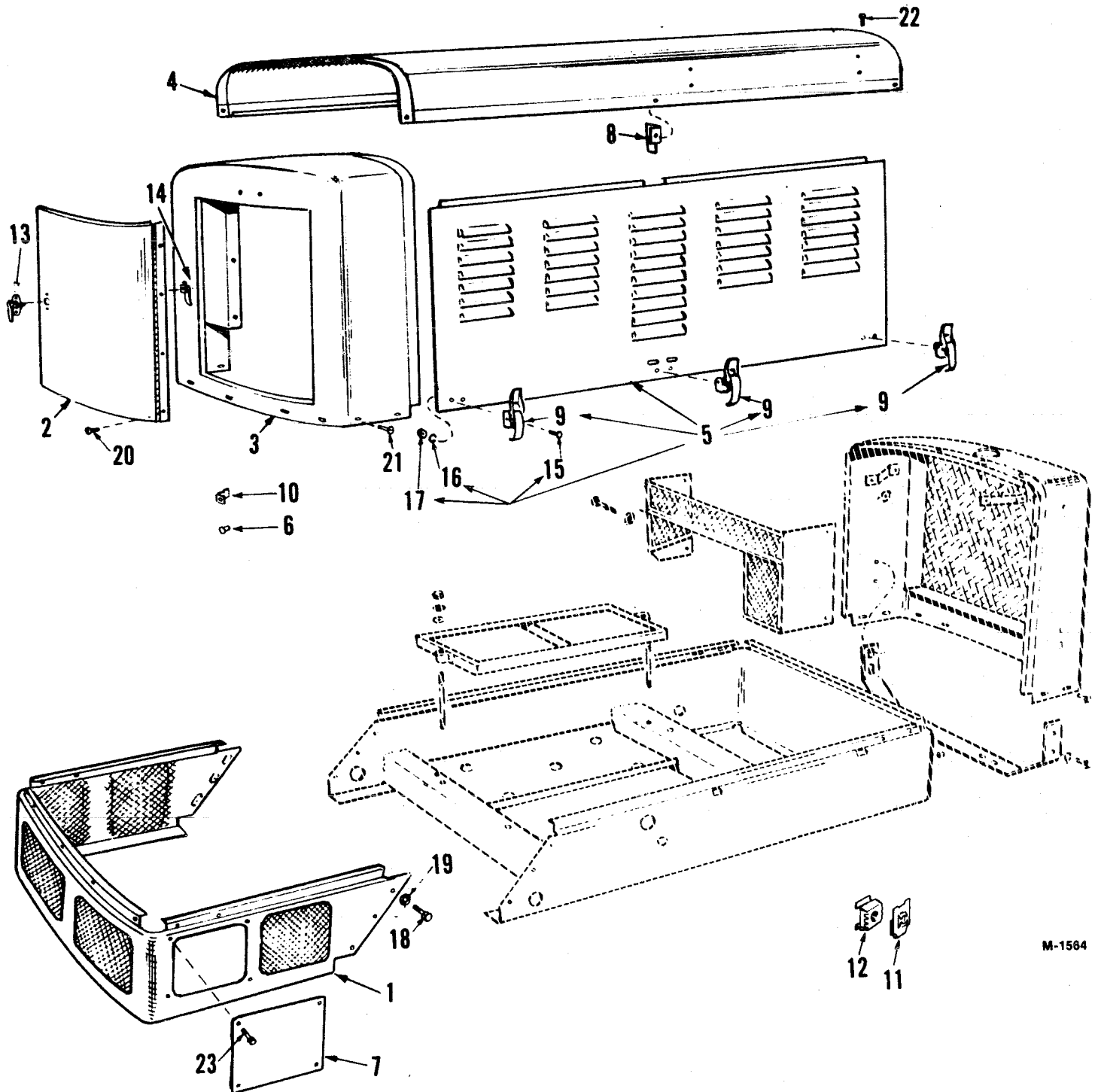
### AC METER PANEL - OPTIONAL



SC-1450

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	302-0894	1	Meter, Frequency (50 Hertz, 240/416 Volt)

# HOUSING - OPTIONAL

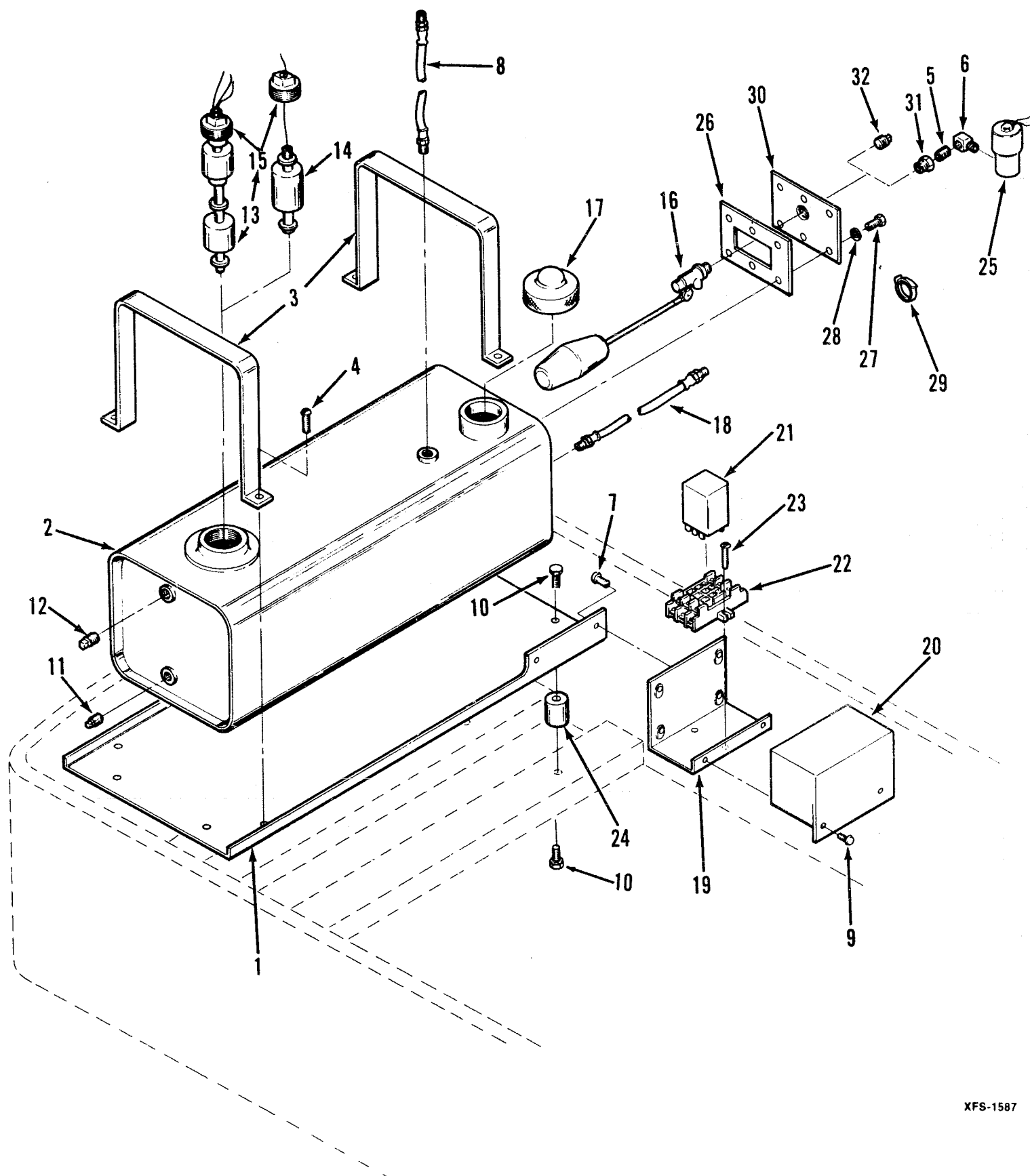


## HOUSING - OPTIONAL

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	403-0477	1	Chassis Rear Section
2	405-1080	1	Panel, Rear Door <b>NOTE:</b> Early models sets using Rear Door Panel Knob also order 406-0157 Door Handle and 406-0089 Door Handle Catch
3	405-1081	1	Panel, Rear End
4	405-1319	1	Panel, Top
5	405-1084	2	Panel Assembly, Side (Includes Parts Marked #)
6	406-0002	1	Knob, Rear Door Panel - Used on Early Models
7	403-0373	1	Panel, Chassis
8	405-1181	2	Stop, Door - Side Panel Assembly
9	406-0105	6	#Fastener, Side Panel
10	406-0088	1	Catch, Rear Door Panel - Used on Early Models
11	870-0106	4	Nut, Speed - Rear Door Panel Mounting
12	870-0113	12	Nut, Speed Grip - Top Panel Mounting
13	406-0157	1	Handle, Door - Includes Mounting Hardware and Keys
14	406-0089	1	Catch, Door Handle
15	813-0098	12	#Screw, Machine - Round Head (#10-32 x 3/8") Fastener Mounting
16	850-0030	12	#Washer, Lock - Spring (#10) Fastener Mounting
17	#NUT (#10-32)		
	870-0053	8	Hex - End Fastener Mounting
	870-0298	4	Self Locking - Middle Fastener Mounting
18	800-0047	6	Screw, Cap - Hex Head (3/8-16 x 5/8") Rear Chassis to Front Chassis
19	850-0050	6	Washer, Lock - Spring (3/8") Rear Chassis to Front Chassis
20	809-0059	4	Screw, Pan Head (1/4" x 1/2") Rear Door Panel to Rear End Panel
21	821-0014	8	Screw, Locking Head (5/16-18 x 1/2") Rear Panel to Chassis)
22	821-0014	12	Screw, Locking Head (5/16-18 x 1/2") Top Panel Mounting
23	800-0024	4	Screw, Cap - Hex Head (5/16-18 x 1/2") Chassis Panel

# - Parts Included in 405-1084 Side Panel Assembly.

# **INTEGRAL FUEL TANK - OPTIONAL** **(OVERHEAD/UNDERGROUND SUPPLY APPLICATIONS)**



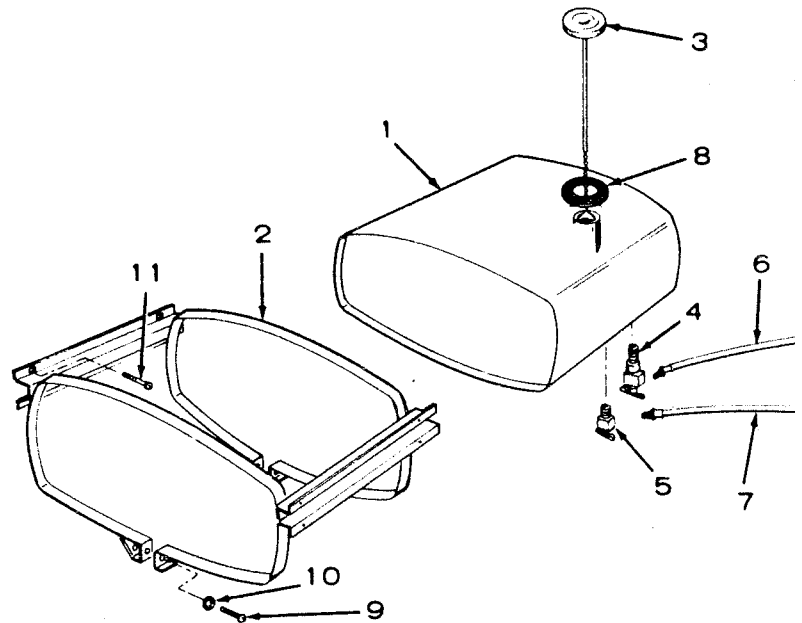
# **INTEGRAL FUEL TANK - OPTIONAL (OVERHEAD/UNDERGROUND SUPPLY APPLICATIONS)**

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	415-0494	1	Plate, Mounting	17	159-0007	1	*Cap, Fuel Tank
2	415-0489	1	Tank, Fuel - 3-1/2 Gallons (Includes Parts Marked *)	18	501-0009	1	Line, Fuel - Supply - Tank to Engine (36")
3	415-0490	2	Strap, Tank Mounting	19	415-0463	1	Box, Control
4	812-0151	4	Screw, Machine - Round Head (1/4-20 x 3/4")	20	COVER, CONTROL BOX		
5	505-0098	1	Nipple, Close (1/8") (Overhead Applications)		415-0464	1	Underground Applications
6	505-0049	1	Elbow, Street (90°) (Overhead Applications)		415-0528	1	Overhead Applications
7	812-0148	2	Screw, Machine - Round Head (1/4-20 x 1/2")	21	307-1058	1	Relay
8	501-0007	1	Line, Fuel - Return - Engine to Tank (24")	22	323-0804	1	Socket, Relay
9	821-0004	2	Screw, Locking Head - Flange (#10-32 x 5/16")	23	812-0034	2	Screw, Machine - Round Head (#8-32 x 1")
10	821-0014	8	Screw, Locking Head - Flange (5/16-18 x 1/2")	24	402-0078	4	Mount, Rubber
11	505-0057	1	Plug, Square Head (1/8")	25	307-0565	1	Valve, Solenoid (Overhead Applications)
12	505-0110	1	Plug, Square Head (3/8")	26	415-0488	1	Gasket, Access Plate
13	415-0491	1	Switch, Float (Includes Mounting Plug) (Underground Applications)	27	800-0002	6	*Screw, Cap - Hex Head (1/4-20 x 3/8")
14	415-0466	1	Switch, Float (Overhead Applications)	28	526-0063	6	*Washer, Flat - Copper (17/64" ID x 7/16" OD x 1/32" Thk)
15	505-1050	1	Plug, Switch Mounting	29	332-0942	3	Tie, Cable
16	309-0410	1	Valve, Float (Overhead Applications)	30	415-0514	1	*Plate, Access
				31	505-0016	1	Bushing, Reducer (3/8" x 1/8") (Overhead Applications)
				32	505-0110	1	Plug, Square Head (3/8") (Underground Applications)

\* - Parts Included in 415-0489 Fuel Tank

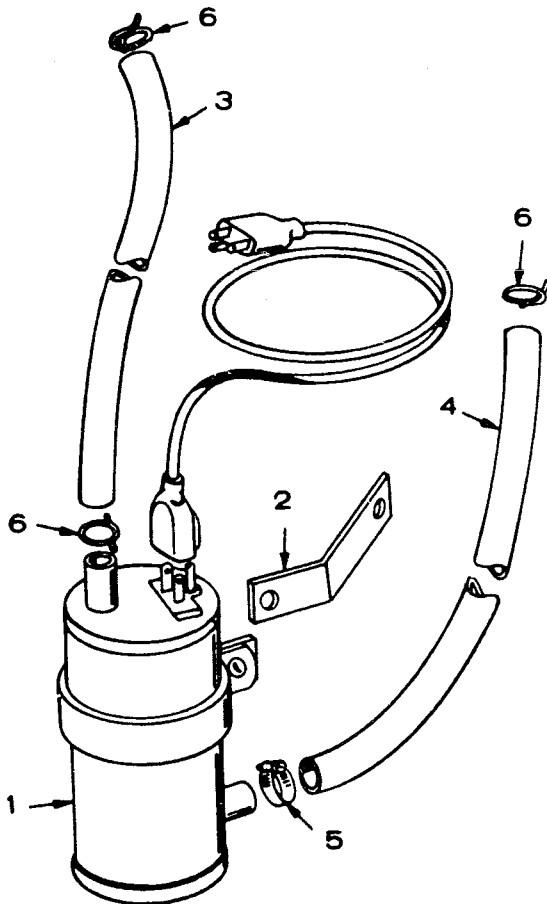
## FUEL TANK (HOUSED SETS) - OPTIONAL

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	159-0639	1	Tank, Fuel (15 Gallons)
2	159-0640	1	Band, Fuel Tank Holddown
3	159-0642	1	Cap and Indicator Assembly
4	504-0013	1	Valve and Screen Assembly Fuel Shut-Off - Tank Outlet
5	504-0007	1	Valve, Fuel Shut-Off - Tank Inlet (Return Line)
6	501-0005	1	Line, Flex Fuel (18-1/2") Tank to Pump
7	501-0066	1	Line, Flex Fuel (31") - Fuel Return
8	159-0751	1	Gasket - Tank Filler Neck to Housing Top Panel
9	812-0168	2	Screw (1/4-20 x 3-1/2"), Round Head
10	850-0040	2	Washer (1/4"), Lock
11	821-0010	8	Screw (1/4-20 x 1/2"), Self Locking



M-1131

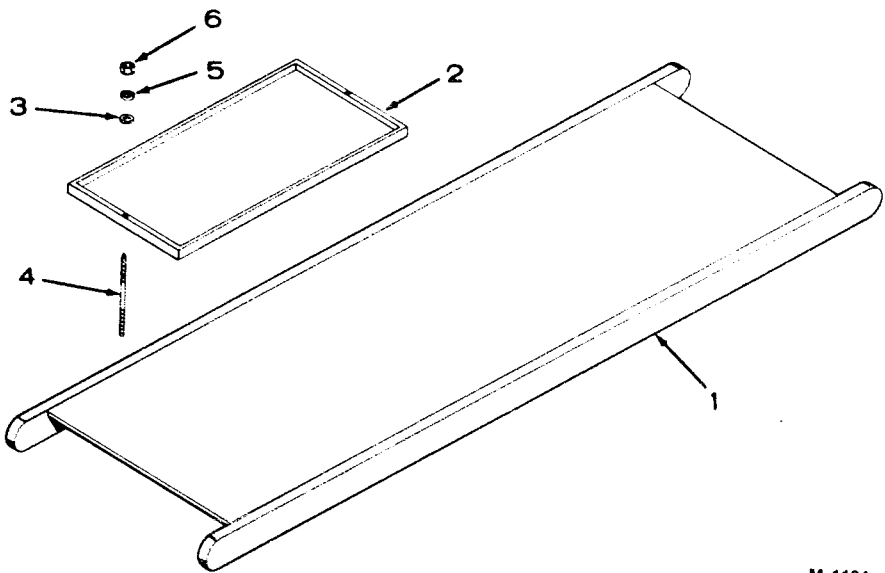
## WATER JACKET HEATER - OPTIONAL



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	333-0054	1	Heater, Water Jacket
2	130-0755	1	Bracket, Mounting
3	503-0833	1	Hose, Rubber (5/8" x 18")
4	503-0833	1	Hose, Rubber (5/8" x 20")
5	503-0183	1	Clamp, Hose
6	503-0197	3	Clamp, Hose

M-1136

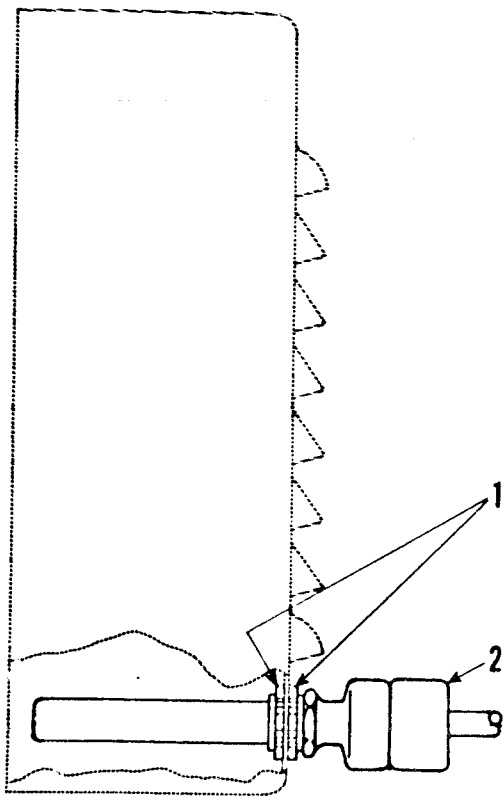
# **SKID AND BATTERY RACK - OPTIONAL**



M-1134

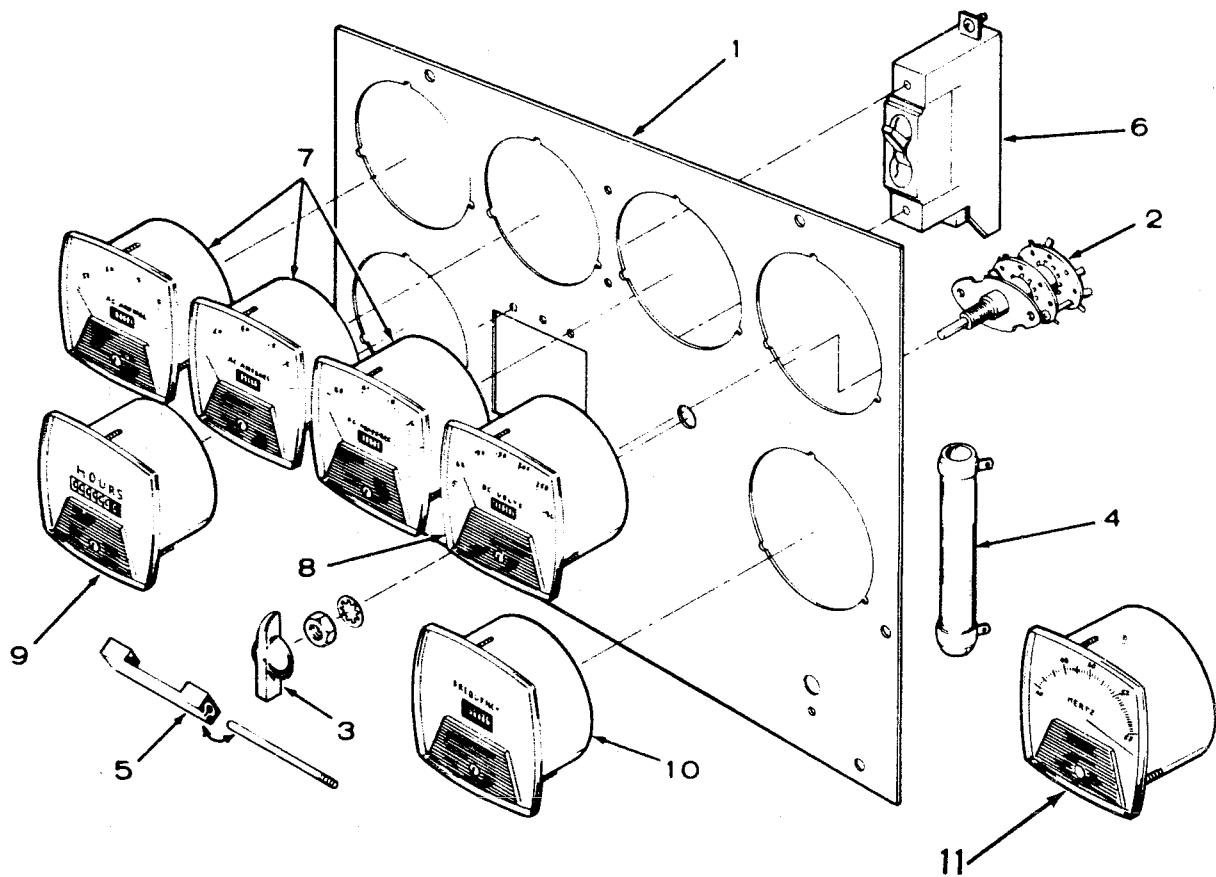
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	403-0661	1	Skid
2	416-0502	1	Frame, Battery
3	526-0115	2	Washer, Flat (11/32" ID x 11/16" OD x 1/16" Thk)
4	520-0490	2	Stud, Battery Frame
5	850-0045	2	Washer, Lock - Spring (5/16")
6	862-0015	6	Nut, Hex (5/16-18)

# **GENERATOR SPACE HEATER - OPTIONAL**



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	331-0041	2	Nut, Lock (1/2") - Begin Spec AA
2	333-0184	1	Heater, Generator Space - Begin Spec AA

## AC METER PANEL - OPTIONAL

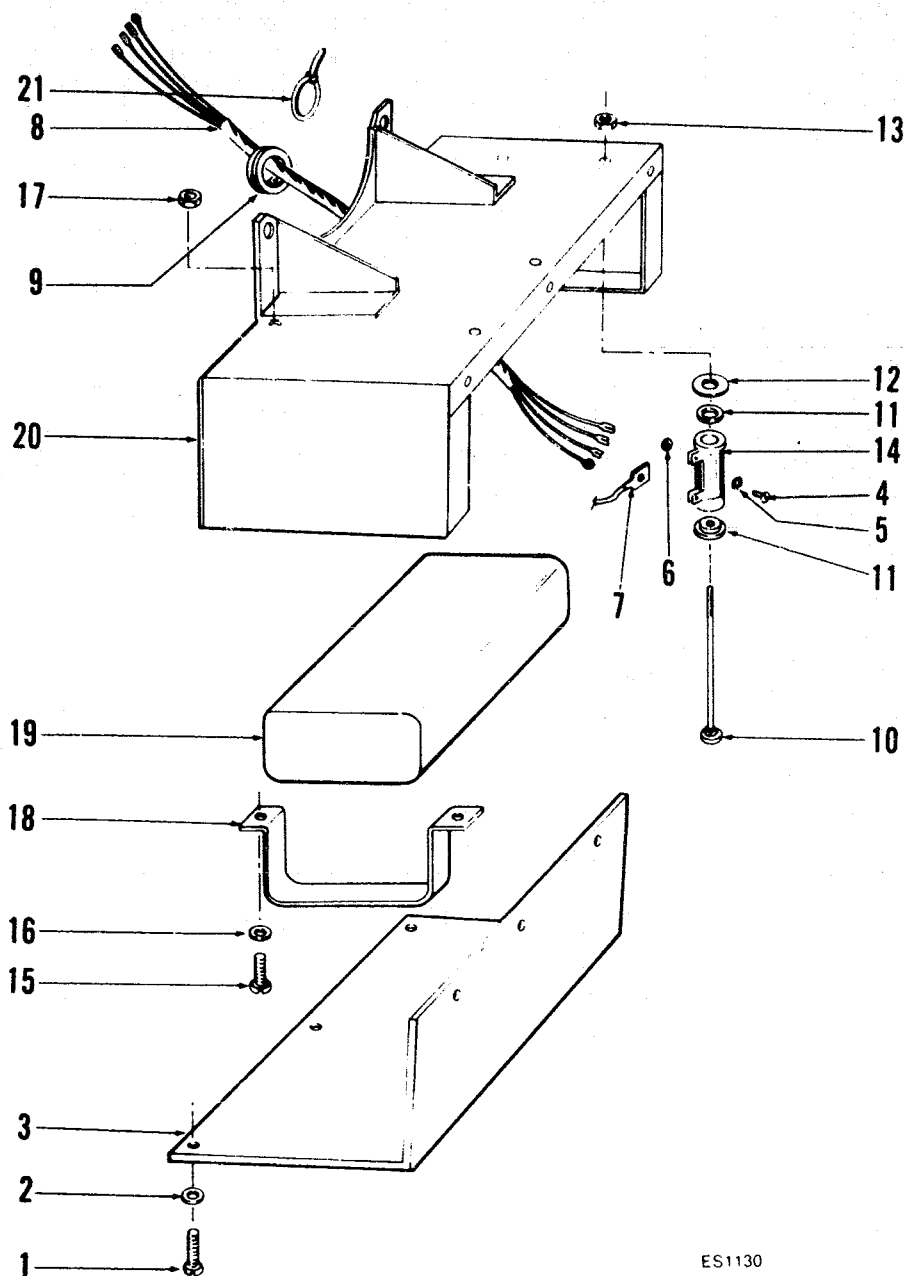


## AC METER PANEL - OPTIONAL

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	PANEL, METER		
			<b>120/208 Volts</b>
			Spec A through Z
	301-2138	1	Sets Without Frequency Meter
	301-2204	1	Sets With Frequency Meter
	301-2204	1	Begin Spec AA
			<b>120/240 Volts</b>
			Spec A through Z
			Single Phase Sets
	301-1551	1	Sets Without Frequency Meter
	301-2288	1	Sets With Frequency Meter
			Three Phase Sets
	301-2138	1	Sets Without Frequency Meter
	301-2204	1	Sets With Frequency Meter
			Begin Spec AA
	301-2288	1	Single Phase Sets
	301-2204	1	Three Phase Sets
	301-2204	1	<b>127/220 Volts</b>
	301-2308	1	<b>220/380 Volts</b>
	301-2308	1	<b>240/416 Volts</b>
			<b>277/480 Volts</b>
			Spec A through Z
	301-2330	1	Sets Without Frequency Meter
	301-2308	1	Sets With Frequency Meter
	301-2308	1	Begin Spec AA
			<b>347/600 Volts</b>
			Spec A through Z
	301-2372	1	Sets Without Frequency Meter
	301-2397	1	Sets With Frequency Meter
	301-3736	1	Begin Spec AA
			<b>Broad Range Sets</b>
	301-3732	1	Begin Spec AA
2	308-0012	1	Switch, Voltage Selector - Three Phase Sets
3	303-0076	1	Knob, Voltage Selector Switch - Three Phase Sets
4	304-0536	1	Resistor, Fixed (9,000 Ohm, 50 Watt) Running Time Meter - 600 Volt Sets
5	BAR, CIRCUIT BREAKER TIE		
	320-0187	1	Sets With 3 Circuit Breakers
	320-0202	1	Sets With 2 Circuit Breakers
6	BREAKER, CIRCUIT (Select According to Existing Breaker)		
			<b>Single Pole</b>
	320-0017	As Req.	10 Amp, 120/240 Volt
	320-0153	As Req.	40 Amp, 120/240 Volt
	320-0198	As Req.	45 Amp, 120/240 Volt
	320-0052	As Req.	50 Amp, 120/240 Volt
	320-0195	As Req.	55 Amp, 120/240 Volt
	320-0148	As Req.	70 Amp, 120/240 Volt
			<b>Three Pole Companion</b>
	320-0486	As Req.	20 Amp, 480 Volt
	320-0487	As Req.	25 Amp, 480 Volt
	320-0488	As Req.	30 Amp, 480 Volt
	320-0514	As Req.	15 Amp, 600 Volt
	320-0459	As Req.	20 Amp, 600 Volt

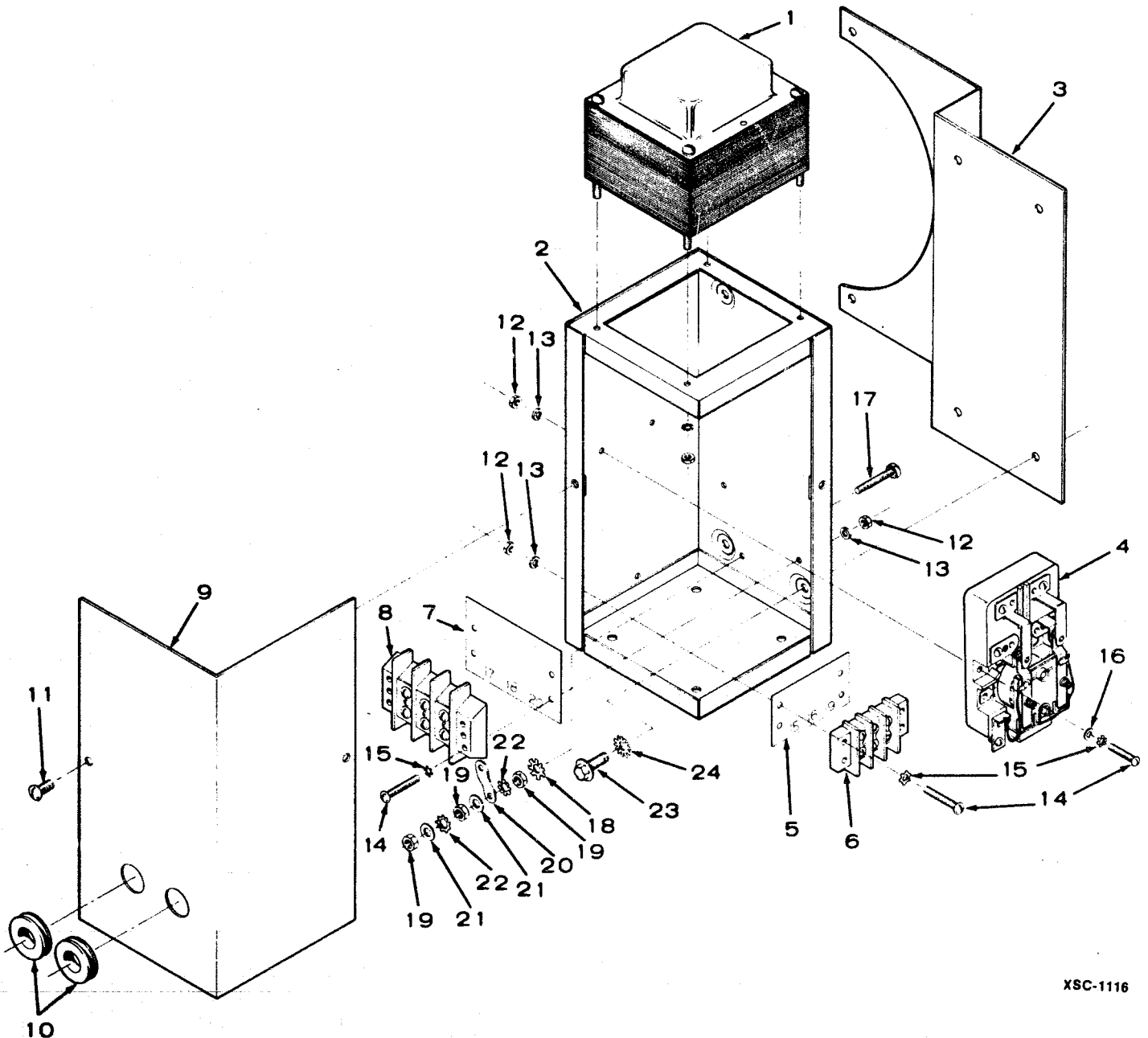
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
7	AMMETER, AC (Select According to Scale)		
	302-0460	As Req.	Scale Reads 0-20
	302-0418	As Req.	Scale Reads 0-30
	302-0444	As Req.	Scale Reads 0-35
	302-0419	As Req.	Scale Reads 0-50
	302-0458	As Req.	Scale Reads 0-80
8	VOLTMETER, AC (Select According to Scale)		
	302-0421	1	Scale Reads 0-300
	302-0612	1	Scale Reads 0-500
	302-0422	1	Scale Reads 0-600
	302-0423	1	Scale Reads 0-750
9	METER, RUNNING TIME (Check Existing Meter for Part Number)		
			<b>50 Hertz</b>
	302-0468	1	120 Volt
	302-0469	1	240 Volt
			<b>60 Hertz</b>
	302-0465	1	120 Volt
	302-0466	1	240 Volt
	302-0467	1	480 Volt
10	METER, FREQUENCY (Select According to Hertz and Volts)		
			<b>50 Hertz</b>
	302-0234	1	100-150 Volt
	302-0256	1	200-250 Volt
	302-0825	1	480 Volt
	302-0788	1	600 Volt
			<b>60 Hertz</b>
	302-0213	1	100-150 Volt
	302-0221	1	200-250 Volt
	302-0716	1	480 Volt
	302-0717	1	600 Volt
11	METER, FREQUENCY - OPTIONAL "Pointer Type" (Select According to Hertz and Volts)		
			<b>50 Hertz</b>
	302-0894	1	120/208 Volt
			120/240 Volt
	302-0893	1	Single Phase
	302-0895	1	Three Phase
	302-0893	1	277/480 Volt
			<b>60 Hertz</b>
	302-0810	1	120/208 Volt
			120/240 Volt
	302-0809	1	Single Phase
	302-0811	1	Three Phase
	302-0809	1	277/480 Volt

# **VOLTAGE REGULATOR FILTER (BEGIN SPEC AA) - OPTIONAL**



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	813-0098	6	Screw, Machine - Round Head (#10-32 x 3/8")	12	304-0292	2	Insulator, Resistor
2	850-0030	6	Washer, Lock - Spring (#10)	13	870-0053	2	Nut, Hex (#10-32)
3	232-2463	1	Cover, Housing	14	304-0120	2	Resistor, Fixed (2 Ohm, 25 Watt)
4	815-0001	4	Screw, Machine - Binding Head Brass (#6-32 x 1/4")	15	812-0079	4	Screw, Machine - Round Head (#8-32 x 1/2")
5	853-0003	4	Washer, Lock - ET (#6)	16	850-0025	4	Washer, Lock - Spring (#8)
6	860-0006	4	Nut, Hex (#6-32)	17	860-0008	4	Nut, Hex (#8-32)
7	332-1279	4	Terminal, Lug	18	312-0198	2	Bracket, Mounting - Capacitor
8	338-1165	1	Harness, Wiring	19	312-0197	1	Capacitor
9	508-0071	1	Grommet, Rubber	20	232-2462	1	Housing, Filter
10	813-0112	2	Screw, Machine - Round Head (#10-32 x 2-1/2")	21	332-0942	2	Tie, Cable
11	304-0015	4	Washer, Centering				

# **CONTINUOUS GLOW PLUG CONTROL (BEGIN SPEC AB) - OPTIONAL**

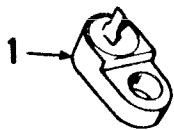


XSC-1116

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	315-0433	1	Transformer (Includes Mounting Hardware)
2	301-4428	1	Box, Control
3	301-4821	1	Bracket, Mounting
4	307-1274	1	Relay
5	332-2566	1	Strip, Marker (Marked 19, 16,15)
6	332-0406	1	Block, Terminal (2-21, 32" lg)
7	332-2567	1	Strip, Marker (Marked 17, 18,20)
8	332-0236	1	Block, Terminal (3-3/16" lg)
9	301-4429	1	Cover, Control Box
10	508-0001	2	Grommet
11	815-0026	2	Screw, Machine - Truss Head (#10-32 x 3/8")
12	860-0008	6	Nut, Hex (#8-32)
13	850-0025	6	Washer, Lock - Spring (#8)

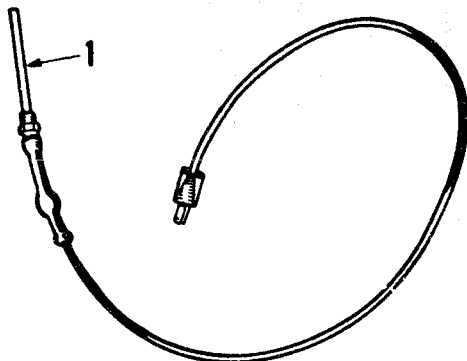
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
14	812-0082	6	Screw, Machine - Round Head Steel (#8-32 x 3/4")
15	853-0005	6	Washer, Lock - ET (#8)
16	526-0048	2	Washer, Flat - Brass (.172 ID x 3/8" OD x 1/32" Thk)
17	815-0203	1	Screw, Machine - Round Head Brass With ET (#10-32 x 7/8")
18	856-0003	1	Washer, Lock - EIT (#10)
19	871-0010	3	Nut, Hex - Brass (#10-32)
20	332-0592	3	Jumper, Ground
21	526-0049	2	Washer, Flat - Brass (.200 ID x 7/16" OD x 1/32" Thk)
22	853-0008	2	Washer, Lock - ET (#10)
23	821-0014	4	Screw, Cap - Hex Locking Washer Head (5/16-18 x 1/2")
24	856-0008	4	Washer, Lock - EIT (5/16")

## LOW ENGINE TEMPERATURE SWITCH - OPTIONAL



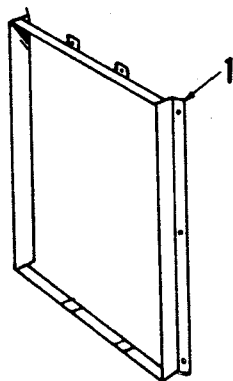
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	309-0269	1	Switch, Low Engine Temperature

## OIL BASE HEATER - OPTIONAL



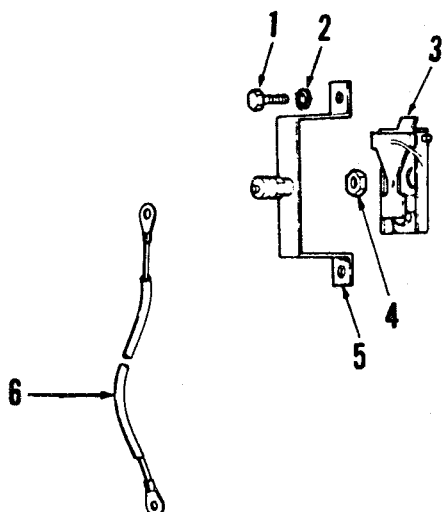
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	102-0558	1	Heater, Oil Base

## AIR DUCT ADAPTER FLANGE - OPTIONAL



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	405-1157	1	Flange, Air Duct Adapter - Radiator Cooled Sets

## OVERSPEED SWITCH - OPTIONAL



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	SCREW 813-0100	2	Machine - Round Head (#10-32 x 1/2") Spec A Through Z
	800-0003	2	Cap - Hex Head (1/4-20 x 1/2") Begin Spec AA
2	WASHER, LOCK - SPRING 850-0030	2	#10 - Spec A Through Z
	850-0040	2	1/4" - Begin Spec AA
3	SWITCH, OVERSPEED 150-0956	1	60 Hertz Sets
	150-1661	1	50 Hertz Sets
4	868-0004	1	Nut, Jam - Hex Head (7/16-20)
5	BRACKET AND POINT ASSEMBLY 150-0958	1	Spec A Through Z
	150-1446	1	Begin Spec AA
6	336-9477	1	Lead - Overspeed Switch

## SPECIAL PARTS LISTS FICHE COORDINATES FOR FORM NO. 974-0221

MODEL	SPEC NO.	DATE	FICHE COORD.
12.5RDJC-53CR	1AA	09/01/79	2 A1
12.5RDJC-518R	1AA	09/01/79	2 A2
12.5RDJC-53CR	1AB	09/01/79	2 A3
12.5RDJC-518R	1AB	09/01/79	2 A4
12.5RDJC-518R	7AA	09/01/79	2 A5
15.ORDJC-3CR	7AA	09/01/79	2 A6
15.ORDJC-3CR	7AB	09/01/79	2 A7
12.5RDJC-53R	14AA	09/01/79	2 A8
12.5RDJC-55DR	14AA	09/01/79	2 A9
12.5RDJC-57R	14AA	09/01/79	2 A10
12.5RDJC-57XR	14AA	09/01/79	2 A11
12.5RDJC-58R	14AA	09/01/79	2 A12
15.ORDJC-3R	14AA	09/01/79	2 A13
15.ORDJC-4R	14AA	09/01/79	2 A14
12.5RDJC-53R	14AB	09/01/79	2 B1
12.5RDJC-57R	14AB	09/01/79	2 B2
15.ORDJC-3R	14AB	09/01/79	2 B3
15.ORDJC-4R	14AB	09/01/79	2 B4
12.5RDJC-57R	1031T	09/01/79	2 B5
12.5RDJC-57R	1041T	09/01/79	2 B6
12.5RDJC-53CR	1041AA	09/01/79	2 B7
12.5RDJC-518R	1041AA	09/01/79	2 B8
15.ORDJC-3CR	1041AA	09/01/79	2 B9
15.ORDJC-3R	1092T	09/01/79	2 B10
15.ORDJC-4R	1092T	09/01/79	2 B11
12.5RDJC-53R	1092AA	09/01/79	2 B12
15.ORDJC-3R	1092AA	09/01/79	2 B13
15.ORDJC-4R	1092AA	09/01/79	2 B14
15.ORDJC-4R	1092AB	09/01/79	2 C1
15.ORDJC-3R	1140AA	09/01/79	2 C2
15.ORDJC-4R	1140AA	09/01/79	2 C3
15.ORDJC-3R	1140AB	09/01/79	2 C4
15.ORDJC-4R	1140AB	09/01/79	2 C5
15.ORDJC-3CR	1337AA	09/01/79	2 C6
15.ORDJC-3CR50	1337AA	09/01/79	2 C7
15.ORDJC-3CR	1337AB	09/01/79	2 C8
15.ORDJC-3R	1483AA	09/01/79	2 C9
15.ORDJC-3R50	1483AA	09/01/79	2 C10
15.ORDJC-4R	1483AA	09/01/79	2 C11
15.ORDJC-4R	1483AB	09/01/79	2 C12
15.ORDJC-4R	1486T	09/01/79	2 C13
15.ORDJC-3CR	1486AA	09/01/79	2 C14
15.ORDJC-3CR	1486AB	09/01/79	2 D1
15.ORDJC-3CR	1567AA	09/01/79	2 D2
15.ORDJC-3CR	1567AB	09/01/79	2 D3
15.ORDJC-3R	1675T	09/01/79	2 D4
12.5RDJC-53R	1675AA	09/01/79	2 D5
15.ORDJC-3R	1675AA	09/01/79	2 D6
15.ORDJC-4R	1675AA	09/01/79	2 D7
15.ORDJC-3R	1675AB	09/01/79	2 D8
15.ORDJC-4R	1675AB	09/01/79	2 D9
15.ORDJC-3CR	2050AA	09/01/79	2 D10
15.ORDJC-4R	2072T	09/01/79	2 D11
15.ORDJC-4R	2072AA	09/01/79	2 D12
15.ORDJC-3R	2072AB	09/01/79	2 D13
15.ORDJC-4R	2072AB	09/01/79	2 D14
15.ORDJC-3CR	3175T	09/01/79	2 E1
15.ORDJC-3CR	3175AA	09/01/79	2 E2

## SPECIAL PARTS LISTS FICHE COORDINATES FOR FORM NO. 974-0221

MODEL	SPEC NO.	DATE	FICHE COORD.
15.ORDJC-4R	3470AA	09/01/79	2 E3
15.ORDJC-3CR	3945AA	09/01/79	2 E4
15.ORDJC-4R	4111AA	09/01/79	2 E5
15.ORDJC-3R	4161T	09/01/79	2 E6
15.ORDJC-3R	4187T	09/01/79	2 E7
15.ORDJC-3R	4389T	09/01/79	2 E8
15.ORDJC-3R	4400AA	09/01/79	2 E9
15.ORDJC-4R	4400AA	09/01/79	2 E10
15.ORDJC-3CR	4576AA	09/01/79	2 E11
15.ORDJC-3R	5652AA	09/01/79	2 E12
15.ORDJC-3CR	5763AA	09/01/79	2 E13
15.ORDJC-4R	6066T	09/01/79	2 E14
15.ORDJC-3CR	6066AB	09/01/79	2 F1
15.ORDJC-3CR	6284T	09/01/79	2 F2
12.5RDJC-518R	6485AA	09/01/79	2 F3
15.ORDJC-3CR	6485AA	09/01/79	2 F4
15.ORDJC-3CR	6598AA	09/01/79	2 F5
15.ORDJC-3CR	6598AB	09/01/79	2 F6
15.ORDJC-3R	6755AB	09/01/79	2 F7
15.ORDJC-4R	6755AB	09/01/79	2 F8
15.ORDJC-4R	7039AA	09/01/79	2 F9
15.ORDJC-3CR	7707T	09/01/79	2 F10
15.ORDJC-4R	7804AB	09/01/79	2 F11
15.ORDJC-3R	9170T	09/01/79	2 F12
15.ORDJC-3R	9170AA	09/01/79	2 F13
15.ORDJC-4R	9170AA	09/01/79	2 F14
15.ORDJC-3R	9170AB	09/01/79	2 G1
15.ORDJC-4R	9170AB	09/01/79	2 G2
15.ORDJC-3R	9172AA	09/01/79	2 G3
15.ORDJC-3R	9172AB	09/01/79	2 G4
15.ORDJC-4R	9172AB	09/01/79	2 G5
15.ORDJC-3R	9316T	09/01/79	2 G6
15.ORDJC-3R	9316AA	09/01/79	2 G7
15.ORDJC-4R	9316AA	09/01/79	2 G8
15.ORDJC-4R	9316AB	09/01/79	2 G9
15.ORDJC-3R	9352AA	09/01/79	2 G10
15.ORDJC-4R	9352AA	09/01/79	2 G11
15.ORDJC-3R	9412T	09/01/79	2 G12
15.ORDJC-3R	9412AA	09/01/79	2 G13
15.ORDJC-4R	9412AA	09/01/79	2 G14
15.ORDJC-3R	9413T	09/01/79	3 A1
12.5RDJC-53R	9413AA	09/01/79	3 A2
15.ORDJC-3R	9413AA	09/01/79	3 A3
15.ORDJC-4R	9413AA	09/01/79	3 A4
15.ORDJC-3R	9413AB	09/01/79	3 A5
12.5RDJC-53R	9453AA	09/01/79	3 A6
15.ORDJC-3R	9453AA	09/01/79	3 A7
15.ORDJC-4R	9654T	09/01/79	3 A8
15.ORDJC-4R	9690T	09/01/79	3 A9
15.ORDJC-3CR	9690AA	09/01/79	3 A10
15.ORDJC-3R	9793AA	09/01/79	3 A11
15.ORDJC-4R	9916T	09/01/79	3 A12
15.ORDJC-3R	9916AA	09/01/79	3 A13
15.ORDJC-4R	9916AA	09/01/79	3 A14
15.ORDJC-3R	10074T	09/01/79	3 B1
15.ORDJC-3R	10115T	09/01/79	3 B2
15.ORDJC-4R	10418T	09/01/79	3 B3
15.ORDJC-3R	10418AA	09/01/79	3 B4

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MODEL	SPEC.	DATED	FICHE LOCATION
12.5RDJC-53CR	1AA	09/01/79 ***	2 A1
12.5RDJC-518R	1AA	09/01/79 ***	2 A1
15.0RDJC-3CR	1AA	01/01/80 ***	4 D13
15.0RDJC-9XR	1AA	01/01/80 ***	4 D13
15.0RDJC-18R50	1AA	01/01/80 ***	4 E1
12.5RDJC-53CR	1AB	09/01/79 ***	2 A3
12.5RDJC-518R	1AB	09/01/79 ***	2 A3
15.0RDJC-3CR	1AB	01/01/80 ***	4 E1
15.0RDJC-18R	1AB	01/01/80 ***	4 E3
12.5RDJC-518R	7AA	09/01/79 ***	2 A5
15.0RDJC-3CR	7AA	09/01/79 ***	2 A5
15.0RDJC-18R	7AA	01/01/80 ***	4 E3
15.0RDJC-3CR	7AB	09/01/79 ***	2 A7
15.0RDJC-18R	7AB	01/01/80 ***	4 E5
12.5RDJC-53R	14AA	09/01/79 ***	2 A7
12.5RDJC-55DR	14AA	09/01/79 ***	2 A9
12.5RDJC-57R	14AA	09/01/79 ***	2 A9
12.5RDJC-57XR	14AA	09/01/79 ***	2 A11
12.5RDJC-58R	14AA	09/01/79 ***	2 A11
15.0RDJC-3R	14AA	09/01/79 ***	2 A13
15.0RDJC-4R	14AA	09/01/79 ***	2 A13
15.0RDJC-4XR	14AA	01/01/80 ***	4 E5
15.0RDJC-4XR50	14AA	01/01/80 ***	4 E7
15.0RDJC-5DR	14AA	01/01/80 ***	4 E7
15.0RDJC-9XR	14AA	01/01/80 ***	4 E9
12.5RDJC-53R	14AB	09/01/79 ***	2 B1
12.5RDJC-57R	14AB	09/01/79 ***	2 B1
15.0RDJC-3R	14AB	09/01/79 ***	2 B3
15.0RDJC-4R	14AB	09/01/79 ***	2 B3
15.0RDJC-5DR	14AB	01/01/80 ***	4 E9
15.0RDJC-4XR	175T	01/01/80 ***	4 E11
15.0RDJC-18R	175AA	01/01/80 ***	4 E11
15.0RDJC-3CR	175AB	01/01/80 ***	4 E13
15.0RDJC-3R	809AA	01/01/80 ***	4 E13
15.0RDJC-4R	809AA	01/01/80 ***	4 F1
15.0RDJC-4R50	809AA	01/01/80 ***	4 F1
15.0RDJC-4XR	809AA	01/01/80 ***	4 F3
15.0RDJC-9XR	809AA	01/01/80 ***	4 F3
15.0RDJC-9XR	809AB	01/01/80 ***	4 F5
12.5RDJC-57R	1031T	09/01/79 ***	2 B5
15.0RDJC-4XR	1031T	01/01/80 ***	4 F5
12.5RDJC-57R	1041T	09/01/79 ***	2 B5
12.5RDJC-53CR	1041AA	09/01/79 ***	2 B7
12.5RDJC-518R	1041AA	09/01/79 ***	2 B7
15.0RDJC-3CR	1041AA	09/01/79 ***	2 B9
15.0RDJC-18R	1041AA	01/01/80 ***	4 F7
15.0RDJC-18R	1041AB	01/01/80 ***	4 F7
15.0RDJC-3R	1092T	09/01/79 ***	2 B9
15.0RDJC-4R	1092T	09/01/79 ***	2 B11
12.5RDJC-53R	1092AA	09/01/79 ***	2 B11
15.0RDJC-3R	1092AA	09/01/79 ***	2 B13
15.0RDJC-4R	1092AA	09/01/79 ***	2 B13
15.0RDJC-5DR	1092AA	01/01/80 ***	4 F9
15.0RDJC-4R	1092AB	09/01/79 ***	2 C1

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15.ORDJC-4XR	1092AB	01/01/80 ***	4 F9
15.ORDJC-4XR	1140T	01/01/80 ***	4 F11
15.ORDJC-3R	1140AA	09/01/79 ***	2 C1
15.ORDJC-4R	1140AA	09/01/79 ***	2 C3
15.ORDJC-4XR	1140AA	01/01/80 ***	4 F11
15.ORDJC-5DR	1140AA	01/01/80 ***	4 F13
15.ORDJC-3R	1140AB	09/01/79 ***	2 C3
15.ORDJC-4R	1140AB	09/01/79 ***	2 C5
15.ORDJC-4XR	1140AB	01/01/80 ***	4 F13
15.ORDJC-5DR	1140AB	01/01/80 ***	4 G1
15.ORDJC-3CR	1337AA	09/01/79 ***	2 C5
15.ORDJC-3CR50	1337AA	09/01/79 ***	2 C7
15.ORDJC-18R	1337AA	01/01/80 ***	4 G1
15.ORDJC-3CR	1337AB	09/01/79 ***	2 C7
15.ORDJC-18R	1337AB	01/01/80 ***	4 G3
15.ORDJC-3R	1483AA	09/01/79 ***	2 C9
15.ORDJC-3R50	1483AA	09/01/79 ***	2 C9
15.ORDJC-4R	1483AA	09/01/79 ***	2 C11
15.ORDJC-4XR	1483AA	01/01/80 ***	4 G3
15.ORDJC-4XR50	1483AA	01/01/80 ***	4 G5
15.ORDJC-4R	1483AB	09/01/79 ***	2 C11
15.ORDJC-4XR	1483AB	01/01/80 ***	4 G5
15.ORDJC-5DR	1483AB	01/01/80 ***	4 G7
15.ORDJC-4R	1486T	09/01/79 ***	2 C13
15.ORDJC-3CR	1486AA	09/01/79 ***	2 C13
15.ORDJC-18R	1486AA	01/01/80 ***	4 G7
15.ORDJC-18R50	1486AA	01/01/80 ***	4 G9
15.ORDJC-3CR	1486AB	09/01/79 ***	2 D1
15.ORDJC-18R	1486AB	01/01/80 ***	4 G9
15.ORDJC-4R50	1551T	01/01/80 ***	4 G11
15.ORDJC-3CR	1551AA	01/01/80 ***	4 G11
15.ORDJC-18R	1551AA	01/01/80 ***	4 G13
15.ORDJC-18R	1551AB	01/01/80 ***	4 G13
15.ORDJC-3CR	1567AA	09/01/79 ***	2 D1
15.ORDJC-18R	1567AA	01/01/80 ***	5 A1
15.ORDJC-3CR	1567AB	09/01/79 ***	2 D3
15.ORDJC-18R	1567AB	01/01/80 ***	5 A1
15.ORDJC-3R	1675T	09/01/79 ***	2 D3
12.5RDJC-53R	1675AA	09/01/79 ***	2 D5
15.ORDJC-3R	1675AA	09/01/79 ***	2 D5
15.ORDJC-4R	1675AA	09/01/79 ***	2 D7
15.ORDJC-4R50	1675AA	01/01/80 ***	5 A3
15.ORDJC-4XR	1675AA	01/01/80 ***	5 A3
15.ORDJC-4XR50	1675AA	01/01/80 ***	5 A5
15.ORDJC-5DR	1675AA	01/01/80 ***	5 A5
15.ORDJC-3R	1675AB	09/01/79 ***	2 D7
15.ORDJC-4R	1675AB	09/01/79 ***	2 D9
15.ORDJC-4XR	1675AB	01/01/80 ***	5 A7
15.ORDJC-18R	1938AA	01/01/80 ***	5 A7
15.ORDJC-18R	1938AB	01/01/80 ***	5 A9
15.ORDJC-3CR	2050AA	09/01/79 ***	2 D9
15.ORDJC-4R	2072T	09/01/79 ***	2 D11
15.ORDJC-5DR	2072T	01/01/80 ***	5 A9
15.ORDJC-4R	2072AA	09/01/79 ***	2 D11

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15.ORDJC-4XR	2072AA	01/01/80 ***	5 A11
15.ORDJC-9XR	2072AA	01/01/80 ***	5 A11
15.ORDJC-3R	2072AB	09/01/79 ***	2 D13
15.ORDJC-4R	2072AB	09/01/79 ***	2 D13
15.ORDJC-4XR	2072AB	01/01/80 ***	5 A13
15.ORDJC-5DR	2072AB	01/01/80 ***	5 A13
15.ORDJC-1BR	2329AB	01/01/80 ***	5 B1
15.ORDJC-4R	2839AA	01/01/80 ***	5 B1
15.ORDJC-4XR	2839AA	01/01/80 ***	5 B3
15.ORDJC-9XR	2839AA	01/01/80 ***	5 B3
15.ORDJC-4R	2839AB	01/01/80 ***	5 B5
15.ORDJC-3CR	3175T	09/01/79 ***	2 E1
15.ORDJC-3CR	3175AA	09/01/79 ***	2 E1
15.ORDJC-4R	3470AA	09/01/79 ***	2 E3
15.ORDJC-3CR	3945AA	09/01/79 ***	2 E3
15.ORDJC-1BR	3945AA	01/01/80 ***	5 B5
15.ORDJC-4R	4111AA	09/01/79 ***	2 E5
15.ORDJC-4XR	4111AA	01/01/80 ***	5 B7
15.ORDJC-3R	4161T	09/01/79 ***	2 E5
15.ORDJC-3R	4187T	09/01/79 ***	2 E7
15.ORDJC-3R	4389T	09/01/79 ***	2 E7
15.ORDJC-3R	4400AA	09/01/79 ***	2 E9
15.ORDJC-4R	4400AA	09/01/79 ***	2 E9
15.ORDJC-4XR	4560T	01/01/80 ***	5 B7
15.ORDJC-4XR	4560AB	01/01/80 ***	5 B9
15.ORDJC-3CR	4576AA	09/01/79 ***	2 E11
15.ORDJC-4R	5246AA	01/01/80 ***	5 B9
15.ORDJC-4XR	5278T	01/01/80 ***	5 B11
15.ORDJC-3R	5652AA	09/01/79 ***	2 E11
15.ORDJC-5DR	5652AA	01/01/80 ***	5 B11
15.ORDJC-3CR	5763AA	09/01/79 ***	2 E13
15.ORDJC-4R	6066T	09/01/79 ***	2 E13
15.ORDJC-4XR	6066T	01/01/80 ***	5 B13
15.ORDJC-1BR	6066AA	01/01/80 ***	5 B13
15.ORDJC-3CR	6066AB	09/01/79 ***	2 F1
15.ORDJC-1BR	6066AB	01/01/80 ***	5 C1
15.ORDJC-3CR	6284T	09/01/79 ***	2 F1
12.5RDJC-518R	6485AA	09/01/79 ***	2 F3
15.ORDJC-3CR	6485AA	09/01/79 ***	2 F3
15.ORDJC-1BR	6485AA	01/01/80 ***	5 C1
15.ORDJC-3CR	6598AA	09/01/79 ***	2 F5
15.ORDJC-1BR	6598AA	01/01/80 ***	5 C3
15.ORDJC-3CR	6598AB	09/01/79 ***	2 F5
15.ORDJC-4XR	6675T	01/01/80 ***	5 C3
15.ORDJC-4XR	6755AA	01/01/80 ***	5 C5
15.ORDJC-3R	6755AB	09/01/79 ***	2 F7
15.ORDJC-4R	6755AB	09/01/79 ***	2 F7
15.ORDJC-9XR	6780T	01/01/80 ***	5 C5
15.ORDJC-4XR	6804AA	01/01/80 ***	5 C7
15.ORDJC-4R	6954AB	01/01/80 ***	5 C7
15.ORDJC-4R	7039AA	09/01/79 ***	2 F9
15.ORDJC-4XR	7039AA	01/01/80 ***	5 C9
15.ORDJC-3CR	7707T	09/01/79 ***	2 F9
15.ORDJC-1BR	7707AA	01/01/80 ***	5 C9

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15.ORDJC-18R	7707AB	01/01/80 ***	5 C11
15.ORDJC-3R	7804AA	01/01/80 ***	5 C11
15.ORDJC-4R	7804AB	09/01/79 ***	2 F11
15.ORDJC-4XR	8084T	01/01/80 ***	5 C13
15.ORDJC-18R	8751AA	01/01/80 ***	5 C13
15.ORDJC-3R	9170T	09/01/79 ***	2 F11
15.ORDJC-3R	9170AA	09/01/79 ***	2 F13
15.ORDJC-4R	9170AA	09/01/79 ***	2 F13
15.ORDJC-4XR	9170AA	01/01/80 ***	5 D1
15.ORDJC-5DR	9170AA	01/01/80 ***	5 D1
15.ORDJC-3R	9170AB	09/01/79 ***	2 G1
15.ORDJC-4R	9170AB	09/01/79 ***	2 G1
15.ORDJC-3R	9172AA	09/01/79 ***	2 G3
15.ORDJC-4XR	9172AA	01/01/80 ***	5 D3
15.ORDJC-3R	9172AB	09/01/79 ***	2 G3
15.ORDJC-4R	9172AB	09/01/79 ***	2 G5
15.ORDJC-4XR	9172AB	01/01/80 ***	5 D3
15.ORDJC-5DR	9172AB	01/01/80 ***	5 D5
15.ORDJC-3R	9316T	09/01/79 ***	2 G5
15.ORDJC-3R	9316AA	09/01/79 ***	2 G7
15.ORDJC-4R	9316AA	09/01/79 ***	2 G7
15.ORDJC-4XR	9316AA	01/01/80 ***	5 D5
15.ORDJC-5DR	9316AA	01/01/80 ***	5 D7
15.ORDJC-9XR	9316AA	01/01/80 ***	5 D7
15.ORDJC-4R	9316AB	09/01/79 ***	2 G9
15.ORDJC-4XR	9316AB	01/01/80 ***	5 D9
15.ORDJC-4XR	9324T	01/01/80 ***	5 D9
15.ORDJC-4XR	9324AA	01/01/80 ***	5 D11
15.ORDJC-3R	9352AA	09/01/79 ***	2 G9
15.ORDJC-4R	9352AA	09/01/79 ***	2 G11
15.ORDJC-4XR	9352AA	01/01/80 ***	5 D11
15.ORDJC-3R	9412T	09/01/79 ***	2 G11
15.ORDJC-3R	9412AA	09/01/79 ***	2 G13
15.ORDJC-4R	9412AA	09/01/79 ***	2 G13
15.ORDJC-4XR	9412AB	01/01/80 ***	5 D13
15.ORDJC-3R	9413T	09/01/79 ***	3 A1
12.5RDJC-53R	9413AA	09/01/79 ***	3 A1
15.ORDJC-3R	9413AA	09/01/79 ***	3 A3
15.ORDJC-4R	9413AA	09/01/79 ***	3 A3
15.ORDJC-4XR	9413AA	01/01/80 ***	5 D13
15.ORDJC-5DR	9413AA	01/01/80 ***	5 E1
15.ORDJC-3R	9413AB	09/01/79 ***	3 A5
15.ORDJC-4R	9413AB	01/01/80 ***	5 E1
12.5RDJC-53R	9453AA	09/01/79 ***	3 A5
15.ORDJC-3R	9453AA	09/01/79 ***	3 A7
15.ORDJC-4R	9654T	09/01/79 ***	3 A7
15.ORDJC-4R	9690T	09/01/79 ***	3 A9
15.ORDJC-3CR	9690AA	09/01/79 ***	3 A9
15.ORDJC-18R	9690AA	01/01/80 ***	5 E3
15.ORDJC-18R50	9735AA	01/01/80 ***	5 E3
15.ORDJC-5DR	9740T	01/01/80 ***	5 E5
15.ORDJC-5DR50	9740U	01/01/80 ***	5 E5
15.ORDJC-3R	9793AA	09/01/79 ***	3 A11
15.ORDJC-4R	9916T	09/01/79 ***	3 A11

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15.ORDJC-3R	9916AA	09/01/79 ***	3 A13
15.ORDJC-4R	9916AA	09/01/79 ***	3 A13
15.ORDJC-5DR	9916AA	01/01/80 ***	5 E7
15.ORDJC-3R	10074T	09/01/79 ***	3 B1
15.ORDJC-3R	10115T	09/01/79 ***	3 B1
15.ORDJC-5DR	10220T	01/01/80 ***	5 E7
15.ORDJC-4R	10418T	09/01/79 ***	3 B3
15.ORDJC-3R	10418AA	09/01/79 ***	3 B3
15.ORDJC-4XR	10418AA	01/01/80 ***	5 E9
15.ORDJC-5DR	10418AA	01/01/80 ***	5 E9
15.ORDJC-3R	10464AA	01/01/80 ***	5 E11
15.ORDJC-4R	10464AA	01/01/80 ***	5 E11
15.ORDJC-9XR	10464AA	01/01/80 ***	5 E13
15.ORDJC-4R	10763T	01/01/80 ***	5 E13
15.ORDJC-3R	10763AA	09/01/79 ***	3 B5
15.ORDJC-4R	10763AA	09/01/79 ***	3 B7
15.ORDJC-3R	10763AB	09/01/79 ***	3 B7
15.ORDJC-4R	10763AB	09/01/79 ***	3 B9
15.ORDJC-4XR	10763AB	01/01/80 ***	5 F1
15.ORDJC-9XR	10763AB	01/01/80 ***	5 F1
15.ORDJC-1BR	10864AA	01/01/80 ***	5 F3
15.ORDJC-4R	10969T	09/01/79 ***	3 B9
15.ORDJC-9XR	11188T	01/01/80 ***	5 F3
12.5RDJC-53CR	11252AA	09/01/79 ***	3 B11
15.ORDJC-3CR	11252AA	09/01/79 ***	3 B11
15.ORDJC-1BR	11252AA	01/01/80 ***	5 F5
15.ORDJC-3CR	11252AB	09/01/79 ***	3 B13
15.ORDJC-9XR	11263T	01/01/80 ***	5 F5
15.ORDJC-3R	11484AA	09/01/79 ***	3 B13
15.ORDJC-4R	11484AA	01/01/80 ***	5 F7
15.ORDJC-4R	11484AB	09/01/79 ***	3 C1
15.ORDJC-3R	11531T	09/01/79 ***	3 C1
15.ORDJC-4R	11531T	09/01/79 ***	3 C3
15.ORDJC-4R	11531AA	09/01/79 ***	3 C3
15.ORDJC-5DR	11531AA	01/01/80 ***	5 F7
15.ORDJC-9XR	11531AA	01/01/80 ***	5 F9
15.ORDJC-3R	11531AB	09/01/79 ***	3 C5
15.ORDJC-4R	11531AB	01/01/80 ***	5 F9
15.ORDJC-4R	11636T	09/01/79 ***	3 C5
15.ORDJC-3R	11636AA	09/01/79 ***	3 C7
15.ORDJC-4R	11636AA	09/01/79 ***	3 C7
15.ORDJC-4R	11807T	01/01/80 ***	5 F11
15.ORDJC-4XR	11829T	01/01/80 ***	5 F11
15.ORDJC-3R	11862T	09/01/79 ***	3 C9
15.ORDJC-4R	11862T	09/01/79 ***	3 C9
15.ORDJC-4XR	11898AA	01/01/80 ***	5 F13
15.ORDJC-4R	11924T	09/01/79 ***	3 C11
15.ORDJC-3R	12039AB	09/01/79 ***	3 C11
15.ORDJC-3R	12121T	09/01/79 ***	3 C13
15.ORDJC-4XR	12228T	01/01/80 ***	5 F13
15.ORDJC-4R	12228AA	09/01/79 ***	3 C13
15.ORDJC-4XR	12228AA	01/01/80 ***	5 G1
15.ORDJC-5DR50	12228AA	01/01/80 ***	5 G1
15.ORDJC-4R	12228AB	09/01/79 ***	3 D1

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15.ORDJC-4XR	12315T	01/01/80 ***	5 G3
15.ORDJC-4R	12315AA	09/01/79 ***	3 D1
15.ORDJC-4XR	12315AA	01/01/80 ***	5 G3
15.ORDJC-5DR	12315AA	01/01/80 ***	5 G5
15.ORDJC-4XR	12338T	01/01/80 ***	5 G5
15.ORDJC-5DR	12338T	01/01/80 ***	5 G7
15.ORDJC-3R	12338AA	09/01/79 ***	3 D3
15.ORDJC-4R	12338AA	09/01/79 ***	3 D3
15.ORDJC-5DR	12338AA	01/01/80 ***	5 G7
15.ORDJC-3R	12338AB	09/01/79 ***	3 D5
15.ORDJC-4R	12338AB	09/01/79 ***	3 D5
15.ORDJC-4XR	12338AB	01/01/80 ***	5 G9
15.ORDJC-3CR	12386T	09/01/79 ***	3 D7
15.ORDJC-4R	12441AA	01/01/80 ***	5 G9
15.ORDJC-9XR	12441AA	01/01/80 ***	5 G11
15.ORDJC-3CR	12503T	09/01/79 ***	3 D7
15.ORDJC-3CR	12503AA	09/01/79 ***	3 D9
15.ORDJC-18R	12503AA	01/01/80 ***	5 G11
15.ORDJC-3R	12598T	09/01/79 ***	3 D9
15.ORDJC-4R50	12665U	01/01/80 ***	5 G13
15.ORDJC-4R	12680AA	09/01/79 ***	3 D11
15.ORDJC-4XR	12680AA	01/01/80 ***	5 G13
15.ORDJC-5DR	12680AA	01/01/80 ***	6 A1
15.ORDJC-4R	12680AB	09/01/79 ***	3 D11
15.ORDJC-4XR	12680AB	01/01/80 ***	6 A1
15.ORDJC-4R50	12856T	01/01/80 ***	6 A3
15.ORDJC-3R	12932AA	09/01/79 ***	3 D13
15.ORDJC-4R	12932AA	09/01/79 ***	3 D13
15.ORDJC-5DR	12932AA	01/01/80 ***	6 A3
15.ORDJC-4R	12932AB	09/01/79 ***	3 E1
15.ORDJC-4XR	12932AB	01/01/80 ***	6 A5
15.ORDJC-4R50	12936U	01/01/80 ***	6 A5
15.ORDJC-3R	12936AA	09/01/79 ***	3 E1
15.ORDJC-4R	12936AA	09/01/79 ***	3 E3
15.ORDJC-4R50	12936AA	01/01/80 ***	6 A7
15.ORDJC-4XR50	12936AA	01/01/80 ***	6 A7
15.ORDJC-4R	13030AA	01/01/80 ***	6 A9
15.ORDJC-4XR	13030AA	01/01/80 ***	6 A9
13.ORDJC-3R50	13030AB	09/01/79 ***	3 E3
13.ORDJC-4R50	13030AB	09/01/79 ***	3 E5
15.ORDJC-3R	13030AB	09/01/79 ***	3 E5
15.ORDJC-4XR	13030AB	01/01/80 ***	6 A11
15.ORDJC-5DR	13030AB	01/01/80 ***	6 A11
15.ORDJC-9XR	13030AB	01/01/80 ***	6 A13
15.ORDJC-4R	13083T	09/01/79 ***	3 E7
15.ORDJC-3R	13083AA	09/06/79 ***	6 A13
15.ORDJC-4R	13083AA	09/01/79 ***	3 E9
15.ORDJC-5DR	13083AA	01/01/80 ***	6 B1
15.ORDJC-4R	13167T	01/01/80 ***	6 B1
15.ORDJC-4XR	13191T	01/01/80 ***	6 B3
15.ORDJC-3R	13198T	09/01/79 ***	3 E9
15.ORDJC-4XR	13198AA	01/01/80 ***	6 B3
15.ORDJC-99R	13206T	01/01/80 ***	6 B5
15.ORDJC-4R	13215T	01/01/80 ***	6 B5

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15.ORDJC-3R	13215AA	01/01/80 ***	6 B7
15.ORDJC-4R	13244T	01/01/80 ***	6 B7
15.ORDJC-3R50	13269AA	09/01/79 ***	3 E11
15.ORDJC-4XR	13269AA	01/01/80 ***	6 B9
15.ORDJC-4R	13273AA	01/01/80 ***	6 B9
15.ORDJC-4XR	13273AA	01/01/80 ***	6 B11
15.ORDJC-3R	13273AB	09/01/79 ***	3 E11
15.ORDJC-4R	13273AB	01/01/80 ***	6 B11
15.ORDJC-4XR	13273AB	01/01/80 ***	6 B13
15.ORDJC-5DR	13273AB	01/01/80 ***	6 B13
15.ORDJC-3R	13337AB	09/01/79 ***	3 E13
15.ORDJC-3R	13351T	09/01/79 ***	3 E13
15.ORDJC-4R	13461T	01/01/80 ***	6 C1
15.ORDJC-4R	13573T	01/01/80 ***	6 C1
15.ORDJC-3R50	13625U	09/01/79 ***	3 F1
15.ORDJC-4XR	13643T	01/01/80 ***	6 C3
15.ORDJC-4R	13769AA	01/01/80 ***	6 C3
15.ORDJC-3R50	13816U	01/01/80 ***	6 C5
15.ORDJC-4R50	13816AA	01/01/80 ***	6 C5
15.ORDJC-18R	13829AA	01/01/80 ***	6 C7
12.5RDJC-53R	13908AA	09/01/79 ***	3 F1
15.ORDJC-4R50	13943AA	01/01/80 ***	6 C7
15.ORDJC-4R	13943AB	01/01/80 ***	6 C9
15.ORDJC-5DR	13987AA	01/01/80 ***	6 C9
15.ORDJC-18R	13987AA	01/01/80 ***	6 C11
15.ORDJC-4R	13988AB	01/01/80 ***	6 C11
15.ORDJC-4R	14002AA	01/01/80 ***	6 C13
15.ORDJC-4XR	14035AB	01/01/80 ***	6 C13
15.ORDJC-18R	14042AA	01/01/80 ***	6 D1
15.ORDJC-4R	14044AA	01/01/80 ***	6 D1
15.ORDJC-4R	14108AA	01/01/80 ***	6 D3
15.ORDJC-5DR	14108AA	01/01/80 ***	6 D3
15.ORDJC-4R	14114AA	01/01/80 ***	6 D5
15.ORDJC-4XR	14114AA	01/01/80 ***	6 D5
15.ORDJC-9XR	14114AB	01/01/80 ***	6 D7
15.ORDJC-3R	14127T	09/01/79 ***	3 F3
15.ORDJC-4R	14151AA	01/01/80 ***	6 D7
15.ORDJC-3R	14183AA	09/01/79 ***	3 F3
15.ORDJC-4R	14183AA	01/01/80 ***	6 D9
15.ORDJC-4R	14183AB	01/01/80 ***	6 D9
15.ORDJC-4R	14234AA	01/01/80 ***	6 D11
15.ORDJC-4R	14255AA	01/01/80 ***	6 D11
15.ORDJC-3R	14255AB	09/01/79 ***	3 F5
15.ORDJC-4R	14255AB	01/01/80 ***	6 D13
15.ORDJC-4R	14274AA	01/01/80 ***	6 D13
15.ORDJC-9XR	14373AA	01/01/80 ***	6 E1
15.ORDJC-4R	14380AA	01/01/80 ***	6 E1
15.ORDJC-9XR	14380AA	01/01/80 ***	6 E3
15.ORDJC-4R	14412AA	01/01/80 ***	6 E3
15.ORDJC-5DR	14412AA	01/01/80 ***	6 E5
15.ORDJC-4R	14475AA	01/01/80 ***	6 E5
15.ORDJC-4XR	14475AA	01/01/80 ***	6 E7
15.ORDJC-3R	14475AB	09/01/79 ***	3 F5
15.ORDJC-4R	14475AB	01/01/80 ***	6 E7

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15.ORDJC-4XR	14475AB	01/01/80 ***	6 E9
15.ORDJC-4R	14502AA	01/01/80 ***	6 E9
15.ORDJC-4R	14511AA	01/01/80 ***	6 E11
15.ORDJC-4R	14533AA	01/01/80 ***	6 E11
15.ORDJC-3CR	14539AA	01/01/80 ***	6 E13
15.ORDJC-4XR	14572AA	01/01/80 ***	6 E13
15.ORDJC-3R	14585AA	09/01/79 ***	3 F7
15.ORDJC-4R	14585AA	01/01/80 ***	6 F1
15.ORDJC-4XR	14585AB	01/01/80 ***	6 F1
15.ORDJC-4R	14587AA	01/01/80 ***	6 F3
15.ORDJC-4XR	14587AA	01/01/80 ***	6 F3
15.ORDJC-4R	14607AA	01/01/80 ***	6 F5
15.ORDJC-4XR	14632AA	01/01/80 ***	6 F5
15.ORDJC-5DR	14632AA	01/01/80 ***	6 F7
12.5RDJC-53CR	14649AA	09/01/79 ***	3 F7
15.ORDJC-4R	14656AA	01/01/80 ***	6 F7
15.ORDJC-4XR	14672AA	01/01/80 ***	6 F9
15.ORDJC-3R	14678AA	09/01/79 ***	3 F9
15.ORDJC-4XR	14817AB	01/01/80 ***	6 F9
15.ORDJC-18R	14938AA	01/01/80 ***	6 F11
15.ORDJC-18R	14938AB	01/01/80 ***	6 F11
15.ORDJC-3R50	14957AA	09/01/79 ***	3 F9
15.ORDJC-4R	14957AA	01/01/80 ***	6 F13
13.ORDJC-4R50	14957AB	09/01/79 ***	3 F11
15.ORDJC-18R	15090AA	01/01/80 ***	6 F13
15.ORDJC-4R	15095AA	01/01/80 ***	6 G1
15.ORDJC-4XR	15095AA	01/01/80 ***	6 G1
15.ORDJC-4XR	15105AA	01/01/80 ***	6 G3
15.ORDJC-3R	15117AB	09/01/79 ***	3 F11
15.ORDJC-18R	15147AB	01/01/80 ***	6 G3
15.ORDJC-18R	15169AA	01/01/80 ***	6 G5
15.ORDJC-4R	15180AA	01/01/80 ***	6 G5
15.ORDJC-3CR	15204AA	09/01/79 ***	3 F13
15.ORDJC-4R	15304AA	01/01/80 ***	6 G7
15.ORDJC-5DR	15304AA	01/01/80 ***	6 G7
15.ORDJC-4R	15304AB	01/01/80 ***	6 G9
15.ORDJC-4R	15308AA	01/01/80 ***	6 G9
15.ORDJC-4R	15351AA	01/01/80 ***	6 G11
15.ORDJC-18R	15365AB	01/01/80 ***	6 G11
15.ORDJC-3R	15370AA	09/01/79 ***	3 F13
15.ORDJC-4R	15370AA	01/01/80 ***	6 G13
15.ORDJC-4XR	15370AA	01/01/80 ***	6 G13
15.ORDJC-4XR	15376AA	01/01/80 ***	7 A1
15.ORDJC-4R	15404AA	01/01/80 ***	7 A1
15.ORDJC-4XR	15404AA	01/01/80 ***	7 A3
15.ORDJC-4R	15470AB	01/01/80 ***	7 A3
15.ORDJC-4R	15507AA	01/01/80 ***	7 A5
15.ORDJC-4XR	15536AB	01/01/80 ***	7 A5
15.ORDJC-4R	15561AA	01/01/80 ***	7 A7
15.ORDJC-4XR	15561AA	01/01/80 ***	7 A7
15.ORDJC-18R	15612AA	01/01/80 ***	7 A9
15.ORDJC-18R	15612AB	01/01/80 ***	7 A9
15.ORDJC-18R	15718AA	01/01/80 ***	7 A11
15.ORDJC-4R	15741AA	01/01/80 ***	7 A11

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15.ORDJC-18R	15773AA	01/01/80 ***	7 A13
15.ORDJC-4R	15787AA	01/01/80 ***	7 A13
15.ORDJC-4R	15800AA	01/01/80 ***	7 B1
15.ORDJC-3CR	15825AA	09/01/79 ***	3 G1
15.ORDJC-4R	15848AA	01/01/80 ***	7 B1
15.ORDJC-5DR	15848AA	01/01/80 ***	7 B3
15.ORDJC-3R	15853AA	09/01/79 ***	3 G1
15.ORDJC-3R	15856AA	09/01/79 ***	3 G3
15.ORDJC-4R	15856AA	01/01/80 ***	7 B3
15.ORDJC-4XR	15856AA	01/01/80 ***	7 B5
15.ORDJC-3R50	15935AA	09/01/79 ***	3 G3
15.ORDJC-18R	15969AA	01/01/80 ***	7 B5
15.ORDJC-4XR	16068AA	01/01/80 ***	7 B7
12.5RDJC-53R	16103AA	09/01/79 ***	3 G5
12.5RDJC-53CE	16177AA	09/01/79 ***	3 G5
15.ORDJC-18R	16208AA	01/01/80 ***	7 B7
15.ORDJC-4R	16215AA	01/01/80 ***	7 B9
15.ORDJC-4R	16216AA	01/01/80 ***	7 B9
15.ORDJC-4R	16220AA	01/01/80 ***	7 B11
15.ORDJC-4R	16225AA	01/01/80 ***	7 B11
15.ORDJC-3R	16303AA	01/01/80 ***	7 B13
15.ORDJC-3CR	16313AA	09/01/79 ***	3 G7
15.ORDJC-18R	16336AA	01/01/80 ***	7 B13
15.ORDJC-5DR	16394AA	01/01/80 ***	7 C1
13.ORDJC-4R50	16399AA	01/01/80 ***	7 C1
15.ORDJC-3R	16427AA	09/01/79 ***	3 G7
15.ORDJC-4R	16443AA	01/01/80 ***	7 C3
15.ORDJC-3R	16463AA	09/01/79 ***	3 G9
15.ORDJC-4R	16463AA	01/01/80 ***	7 C3
15.ORDJC-4XR	16463AA	01/01/80 ***	7 C5
15.ORDJC-4R	16463AB	01/01/80 ***	7 C5
15.ORDJC-4R	16489AA	01/01/80 ***	7 C7
15.ORDJC-3R	16509AA	09/01/79 ***	3 G9
15.ORDJC-3R	16509AB	09/01/79 ***	3 G11
15.ORDJC-3R	16554AB	09/01/79 ***	3 G11
15.ORDJC-4R	16554AB	01/01/80 ***	7 C7
15.ORDJC-3R	16567AA	09/01/79 ***	3 G13
15.ORDJC-4R	16568AA	01/01/80 ***	7 C9
15.ORDJC-3R50	16569AA	09/01/79 ***	3 G13
15.ORDJC-4R50	16570AA	01/01/80 ***	7 C9
15.ORDJC-3R	16607AA	09/01/79 ***	4 A1
15.ORDJC-3R	16613AB	09/01/79 ***	4 A1
15.ORDJC-3R	16635AA	09/01/79 ***	4 A3
15.ORDJC-3R50	16653AA	09/01/79 ***	4 A3
15.ORDJC-4R	16661AA	01/01/80 ***	7 C11
15.ORDJC-5DR	16694AA	01/01/80 ***	7 C11
15.ORDJC-3CR	16703AA	09/01/79 ***	4 A5
15.ORDJC-18R	16703AA	01/01/80 ***	7 C13
15.ORDJC-3R	16716AA	09/01/79 ***	4 A5
15.ORDJC-18R	16739AA	01/01/80 ***	7 C13
15.ORDJC-3R	16752AA	09/01/79 ***	4 A7
15.ORDJC-3R	16752AB	01/01/80 ***	7 D1
15.ORDJC-18R	16757AA	01/01/80 ***	7 D1
15.ORDJC-4R	16759AA	01/01/80 ***	7 D3

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15.ORDJC-4R	16762AA	01/01/80 ***	7 D3
12.5RDJC-55DR	16771AA	09/01/79 ***	4 A7
15.ORDJC-3R	16784AA	09/01/79 ***	4 A9
15.ORDJC-4XR	16802AB	01/01/80 ***	7 D5
15.ORDJC-99R	16827AA	01/01/80 ***	7 D5
15.ORDJC-4R50	16839AA	01/01/80 ***	7 D7
15.ORDJC-3R50	16859AA	09/01/79 ***	4 A9
15.ORDJC-4XR	16864AA	01/01/80 ***	7 D7
15.ORDJC-5DR	16864AA	01/01/80 ***	7 D9
15.ORDJC-4R	16872AA	01/01/80 ***	7 D9
15.ORDJC-18R	16902AA	01/01/80 ***	7 D11
15.ORDJC-18R	16991AA	01/01/80 ***	7 D11
15.ORDJC-4R	16993AA	01/01/80 ***	7 D13
15.ORDJC-3R	17002AB	09/01/79 ***	4 A11
15.ORDJC-5DR	17002AB	01/01/80 ***	7 D13
15.ORDJC-18R	17008AA	01/01/80 ***	7 E1
15.ORDJC-3R	17069AA	09/01/79 ***	4 A11
12.5RDJC-53R	17078AA	09/01/79 ***	4 A13
15.ORDJC-4R	17079AA	01/01/80 ***	7 E1
15.ORDJC-4R	17079AB	01/01/80 ***	7 E3
15.ORDJC-4XR	17083AA	01/01/80 ***	7 E3
15.ORDJC-3R	17084AA	09/01/79 ***	4 A13
15.ORDJC-4R	17092AA	01/01/80 ***	7 E5
15.ORDJC-5DR	17102AA	01/01/80 ***	7 E5
15.ORDJC-4XR	17139AA	01/01/80 ***	7 E7
15.ORDJC-4R	17165AA	01/01/80 ***	7 E7
15.ORDJC-4XR	17165AA	01/01/80 ***	7 E9
15.ORDJC-9XR	17175AA	01/01/80 ***	7 E9
15.ORDJC-18R	17218AB	01/01/80 ***	7 E11
15.ORDJC-4R	17231AA	01/01/80 ***	7 E11
15.ORDJC-18R	17297AB	01/01/80 ***	7 E13
15.ORDJC-3CR	17310AA	09/01/79 ***	4 B1
15.ORDJC-4R	17337AB	01/01/80 ***	7 E13
15.ORDJC-3CR	17349AA	09/01/79 ***	4 B1
15.ORDJC-4R	17354AA	01/01/80 ***	7 F1
15.ORDJC-5DR	17363AA	01/01/80 ***	7 F1
15.ORDJC-4XR	17379AA	01/01/80 ***	7 F3
15.ORDJC-5DR	17379AB	01/01/80 ***	7 F3
15.ORDJC-4R	17382AA	01/01/80 ***	7 F5
15.ORDJC-5DR	17382AB	01/01/80 ***	7 F5
15.ORDJC-18R	17421AA	01/01/80 ***	7 F7
15.ORDJC-18R	17434AA	01/01/80 ***	7 F7
15.ORDJC-18R	17446AA	01/01/80 ***	7 F9
15.ORDJC-3R	17449AA	09/01/79 ***	4 B3
15.ORDJC-18R	17456AA	01/01/80 ***	7 F9
15.ORDJC-18R	17456AB	01/01/80 ***	7 F11
15.ORDJC-3R	17591AA	09/01/79 ***	4 B3
15.ORDJC-3R	17666AA	09/01/79 ***	4 B5
15.ORDJC-4R	17666AA	01/01/80 ***	7 F11
15.ORDJC-9XR	17666AB	01/01/80 ***	7 F13
15.ORDJC-4XR	17686AA	01/01/80 ***	7 F13
15.ORDJC-18R	17686AA	01/01/80 ***	7 G1
15.ORDJC-5DR	17755AA	01/01/80 ***	7 G1
15.ORDJC-18R	17819AA	01/01/80 ***	7 G3

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15.ORDJC-3CR	17836AA	09/01/79 ***	4 B5
15.ORDJC-4R	17873AA	01/01/80 ***	7 G3
15.ORDJC-4R	17894AA	01/01/80 ***	7 G5
15.ORDJC-3CR	17913AA	09/01/79 ***	4 B7
15.ORDJC-5DR	17942AA	01/01/80 ***	7 G5
15.ORDJC-5DR	17942AB	01/01/80 ***	7 G7
15.ORDJC-3CR	17948AA	09/01/79 ***	4 B7
15.ORDJC-4R	17974AA	01/01/80 ***	7 G7
15.ORDJC-18R	17988AA	01/01/80 ***	7 G9
15.ORDJC-3R	18144AA	09/01/79 ***	4 B9
15.ORDJC-4XR	18177AA	01/01/80 ***	7 G9
15.ORDJC-4R	18244AA	01/01/80 ***	7 G11
15.ORDJC-4R	18244AB	01/01/80 ***	7 G11
15.ORDJC-3CR	18270AA	09/01/79 ***	4 B9
15.ORDJC-18R	18302AA	01/01/80 ***	7 G13
15.ORDJC-18R	18302AB	01/01/80 ***	7 G13
15.ORDJC-18R	18303AA	01/01/80 ***	8 A1
15.ORDJC-18R	18303AB	01/01/80 ***	8 A1
15.ORDJC-4R	18483AA	01/01/80 ***	8 A3
15.ORDJC-5DR	18520AA	01/01/80 ***	8 A3
15.ORDJC-18R	18549AA	01/01/80 ***	8 A5
12.5RDJC-55DR	18560AA	09/01/79 ***	4 B11
15.ORDJC-4R	18564AA	01/01/80 ***	8 A5
15.ORDJC-18R	18583AA	01/01/80 ***	8 A7
15.ORDJC-5DR	18603AA	01/01/80 ***	8 A7
15.ORDJC-5DR	18603AB	01/01/80 ***	8 A9
15.ORDJC-3R	18613AA	09/01/79 ***	4 B11
15.ORDJC-5DR	18625AA	01/01/80 ***	8 A9
15.ORDJC-5DR	18625AB	01/01/80 ***	8 A11
15.ORDJC-4R	18627AA	01/01/80 ***	8 A11
15.ORDJC-4R	18627AB	01/01/80 ***	8 A13
15.ORDJC-4XR	18642AB	01/01/80 ***	8 A13
15.ORDJC-18R	18671AA	01/01/80 ***	8 B1
15.ORDJC-3CR	18705AA	09/01/79 ***	4 B13
15.ORDJC-3CR	18726AA	09/01/79 ***	4 B13
15.ORDJC-3R	18741AA	01/01/80 ***	8 B1
15.ORDJC-4R	18746AA	01/01/80 ***	8 B3
15.ORDJC-4R	18763AA	01/01/80 ***	8 B3
15.ORDJC-4R	18783AA	01/01/80 ***	8 B5
12.5RDJC-53CR	18862AA	09/01/79 ***	4 C1
12.5RDJC-53R	18894AA	09/01/79 ***	4 C1
12.5RDJC-599R	18899AA	09/01/79 ***	4 C3
15.ORDJC-4XR	18909AA	01/01/80 ***	8 B5
15.ORDJC-3R	18919AB	09/01/79 ***	4 C3
15.ORDJC-3CR50	18920AA	09/01/79 ***	4 C5
15.ORDJC-3R	19007AA	09/01/79 ***	4 C5
15.ORDJC-5DR	19127AB	01/01/80 ***	8 B7
15.ORDJC-5DR	19137AB	01/01/80 ***	8 B7
15.ORDJC-4XR	19142AB	01/01/80 ***	8 B9
15.ORDJC-4R	19179AB	01/01/80 ***	8 B9
12.5RDJC-57R	19267AB	09/06/79 ***	8 B11
15.ORDJC-3R	19317AB	09/01/79 ***	4 C7
15.ORDJC-3CR	19379AB	09/01/79 ***	4 C9
12.5RDJC-53CR	19409AB	09/01/79 ***	4 C9

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15.ORDJC-4XR	19439AB	01/01/80 ***	8 B11
15.ORDJC-3R	19440AB	09/01/79 ***	4 C11
15.ORDJC-18R	19562AB	01/01/80 ***	8 B13
15.ORDJC-4R	19581AB	01/01/80 ***	8 B13
15.ORDJC-18R	19602AB	01/01/80 ***	8 C1
15.ORDJC-4R	19613AA	01/01/80 ***	8 C1
15.ORDJC-3R	19615AB	09/01/79 ***	4 C11
15.ORDJC-3CR	19618AB	09/01/79 ***	4 C13
15.ORDJC-4XR	19684AB	01/01/80 ***	8 C3
15.ORDJC-3R	19743AB	09/01/79 ***	4 C13
15.ORDJC-5DR	19775AB	01/01/80 ***	8 C3
15.ORDJC-4R	19870AB	01/01/80 ***	8 C5
15.ORDJC-4R	19895AB	01/01/80 ***	8 C5
15.ORDJC-18R	19919AB	01/01/80 ***	8 C7
15.ORDJC-4R	19953AB	01/01/80 ***	8 C7
15.ORDJC-18R	19975AB	01/01/80 ***	8 C9
15.ORDJC-3R	19986AB	09/01/79 ***	4 D1
15.ORDJC-18R	20014AB	01/01/80 ***	8 C9
15.ORDJC-3R	20020AB	09/01/79 ***	4 D1
15.ORDJC-18R	20064AB	01/01/80 ***	8 C11
15.ORDJC-4R	20109AB	01/01/80 ***	8 C11
15.ORDJC-4XR	20109AB	01/01/80 ***	8 C13
15.ORDJC-3R	20138AB	09/01/79 ***	4 D3
15.ORDJC-4R	20181AB	01/01/80 ***	8 C13
15.ORDJC-4XR	20184AB	01/01/80 ***	8 D1
15.ORDJC-3CR	20191AB	09/01/79 ***	4 D3
15.ORDJC-3R	20278AB	09/01/79 ***	4 D5
15.ORDJC-4R	20278AB	01/01/80 ***	8 D1
15.ORDJC-4XR	20278AB	01/01/80 ***	8 D3
15.ORDJC-18R	20280AB	01/01/80 ***	8 D3
15.ORDJC-3CR	20284AB	09/01/79 ***	4 D5
15.ORDJC-4XR	20370AB	01/01/80 ***	8 D5
15.ORDJC-4XR	20375AB	01/01/80 ***	8 D5
15.ORDJC-3R	20419AB	09/01/79 ***	4 D7
15.ORDJC-3R	20445AB	09/01/79 ***	4 D7
15.ORDJC-4XR	20522AB	01/01/80 ***	8 D7
15.ORDJC-18R	20654AB	01/01/80 ***	8 D7
12.5RDJC-57R	20730AB	09/01/79 ***	4 D9
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