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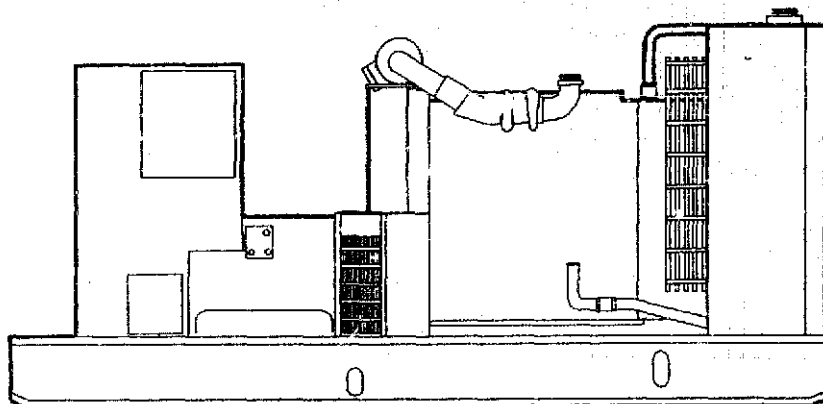


**Onan**

# PARTS CATALOG

| <i>Onan Model</i> | <i>Cummins Model</i>  |
|-------------------|-----------------------|
| DFEB (Spec E & F) | KTA 12                |
| DFEC (Spec A)     | <del>          </del> |
| DFFA (Spec E & F) | KTT 11                |
| DFFB (Spec E & F) | KTT 12                |

## Generating Set



960-0240  
11-92  
Replaces 11-90  
Printed in U.S.A.



**Power  
Generation**

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Supplement: 960-2000  
Date: 4-93  
Insert with-  
Title: DF Series Parts Catalog  
Spec Advance  
Number: As Listed Below

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This Supplementary Parts List Spec advances "DF" series generator sets as shown:

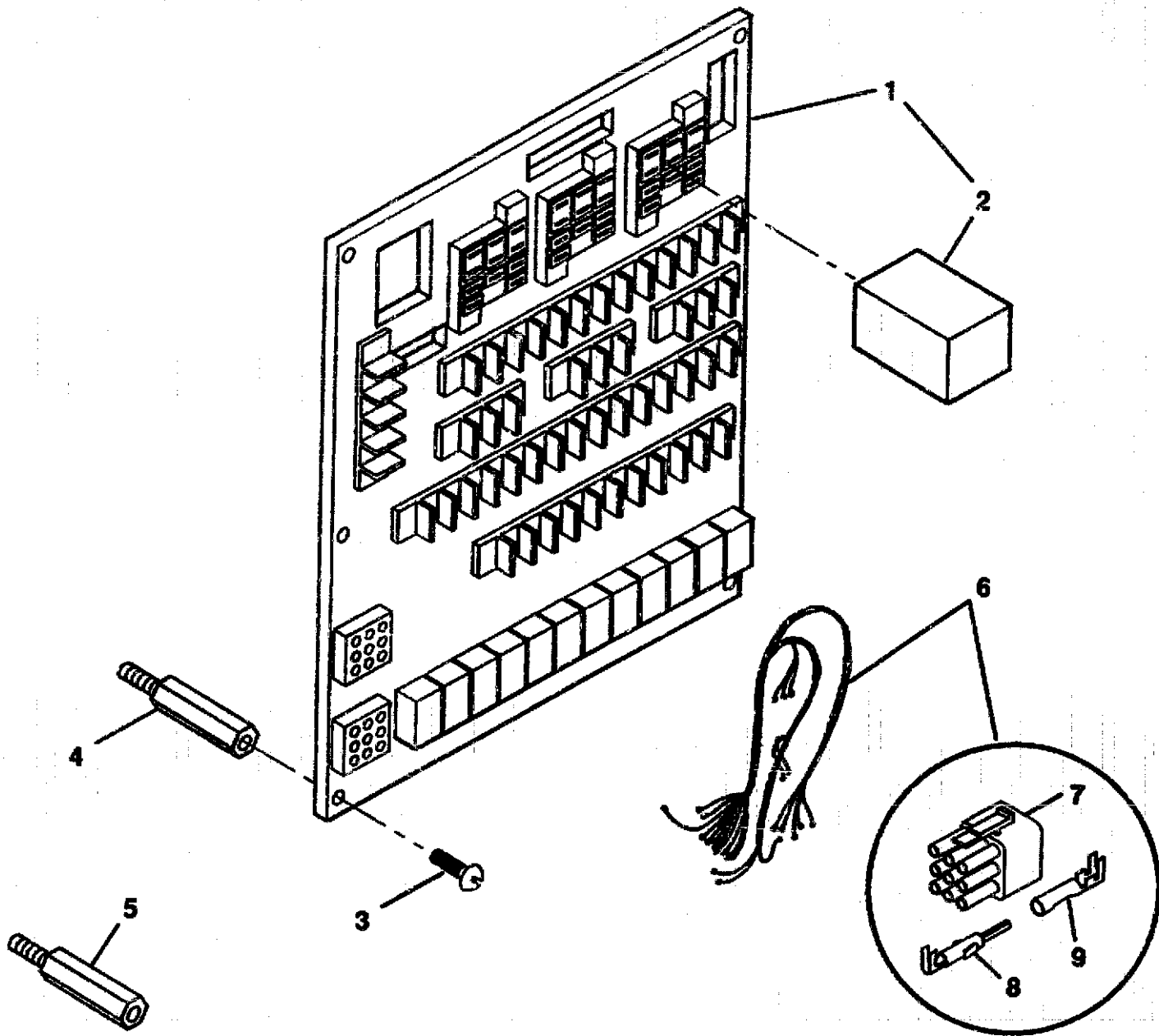
| <u>"DF" Series<br/>Models</u> | <u>New Spec<br/>Advance Letter</u> | <u>Catalog<br/>Number</u> |
|-------------------------------|------------------------------------|---------------------------|
| DFAA, DFAB, DFAC              | B                                  | 960-0260                  |
| DFBF, DFCB, DFCC              | H                                  | 960-0204                  |
| DFEB, DFFB                    | H                                  | 960-0240                  |
| DFEC                          | B                                  | 960-0240                  |
| DFGA, DFGB                    | B                                  | 960-0259                  |
| DFJA, DFJB, DFJC              | J                                  | 960-0263                  |
| DFJD                          | B                                  | 960-0263                  |
| DFLB, DFLC, DFLD, DFMB        | J                                  | 960-0264                  |

This "DF" series supplement covers the change to a circuit board containing twelve form C contact relays and three standard product run relays. The new board provides continuous monitoring of the generator set and the run relays can be configured for any of three functions (run, common alarm, isolated logic) with the movement of jumpers on the board.

In addition to the circuit board change, low coolant senders wired to shut down the set are now a standard feature. The low coolant leads are now incorporated into the main engine harness necessitating in the release of new engine harness part numbers.

On the following pages replacement parts are shown for each "DF" series model beginning with the Spec advance letters as shown above. Use these part numbers in place of those listed in the related "DF" series parts catalogs.

# Alarm Relay Board



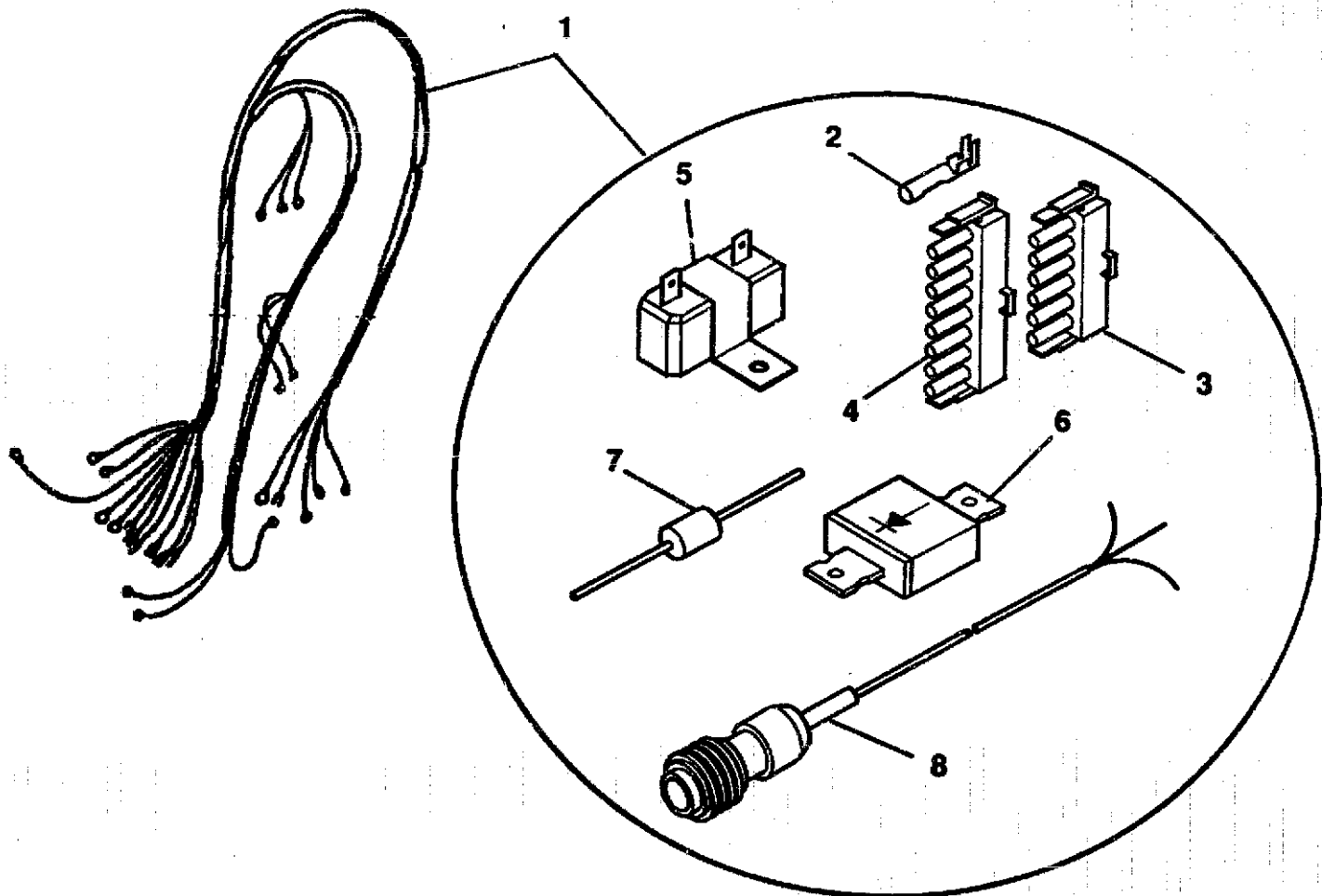
300-4228

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                                                |
|---------|-------------|----------|---------------------------------------------------------------------------------|
| 1       |             |          | Board, Relay - Alarm (Includes Relay)                                           |
|         | 300-4111-02 | 1        | Without Form C Relays                                                           |
|         | 300-4111-04 | 1        | With Form C Relays                                                              |
| 2       | 307-1056    | 1        | Relay (Quantity Used as Required) (K1,K2,K3)                                    |
| 3       | 815-0544    | 6        | Screw, Machine - Round Head - Cross Recessed With Internal Tooth (#6-32 x 1/2") |
| 4       | 870-0517-01 | 4        | Standoff (Clear) (1-7/8")                                                       |

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                                                |
|---------|-------------|----------|---------------------------------------------------------------------------------|
| 5       | 870-0517-02 | 2        | Standoff (Yellow) (2")                                                          |
| 6       | 338-2875    | 1        | Harness, Wiring (Includes Parts Marked*) (A11-TB1 and TB2 to Alarm Relay Board) |
| 7       | 323-1291    | 2        | *Plug - 9 Place (P1,P2)                                                         |
| 8       | 323-1199    | 9        | *Pin, Contact                                                                   |
| 9       | 323-1200    | 8        | *Socket, Contact                                                                |

\* - Parts Included in 338-2875 Wiring Harness

# Engine Wiring Harness



338-2947

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                              | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                                                           |
|---------|----------|----------|---------------------------------------------------------------|---------|-------------|----------|--------------------------------------------------------------------------------------------|
| 1       |          |          | Harness, Wiring - Engine to Control (Includes Parts Marked *) | 4       | 323-1306    | 1        | *Housing, Connector - 8 Place (J1)                                                         |
|         | 338-2947 | 1        | DFAA, DFAB, DFAC                                              | 5       | 353-0094-01 | 1        | *Resistor (50 Ohm) (R1)                                                                    |
|         | 338-2948 | 1        | DFBF, DFCB, DFCC                                              | 6       | 357-0030    | 1        | *Rectifier (400 V) (CR1)                                                                   |
|         | 338-2984 | 1        | DFEB, DFEC, DFFB                                              | 7       | 359-0051    | 1        | *Diode (50 Watt)                                                                           |
|         | 338-2994 | 1        | DFGA, DFGB, DFGC                                              | 8       | 338-1765-04 | 1        | *Cable, Magnetic Pickup (Part not included with harnesses 338-2994, 338-2996 and 338-2995) |
|         | 338-2996 | 1        | DFJA, DFJB, DFJC, DFJD                                        |         |             |          |                                                                                            |
|         | 338-2995 | 1        | DFLB, DFLC, DFLD, DFMB                                        |         |             |          |                                                                                            |
| 2       | 323-1200 | 11       | *Socket, Contact                                              |         |             |          |                                                                                            |
| 3       | 323-1304 | 1        | *Housing, Connector - 6 Place (J2)                            |         |             |          |                                                                                            |

## Introduction

This catalog applies to Onan Generator Models DFEB, DFEC, DFFA, DFFB and Cummins Generator Models KTA12, KTT11, KTT12 as listed in the Generator Set Data Table. Parts are arranged in groups of related items and each illustrated part is identified by a reference number corresponding to the same reference number in the parts list. Parts illustrations are typical. Unless otherwise mentioned in the description or page heading, parts are interchangeable between models. Throughout this catalog left and right sides are determined by facing the engine end (front) of the set.

Some parts groups lists a second source for obtaining service replacement parts. A list of distributors and their addresses are located toward the rear of this catalog.

Engine parts that have been modified or added by Onan are identified in this catalog. All other engine replacement parts must be ordered from the engine manufacturer by referring to the engine manufacturer's nameplate and supplying all available information. Contact your nearest engine parts dealer for assistance in ordering replacement parts.

## Replacement Engine

| <u>Onan/Cummins<br/>Generator Model</u> | <u>Cummins<br/>Generator Model</u> | <u>Cummins<br/>Engine Model</u> |
|-----------------------------------------|------------------------------------|---------------------------------|
| 330DFEB                                 | 330KTA12                           | KTA-19-G2                       |
| 400DFEB                                 | 400KTA12                           | KTA-19-G2                       |
| 400DFEC                                 |                                    | KTA-19-G3                       |
| 450DFEC                                 |                                    | KTA-19-G3                       |
| 400DFFA                                 | 400KTT11                           | KTTA-19-G1                      |
| 450DFFA                                 | 450KTT11                           | KTTA-19-G1                      |
| 450DFFB                                 | 450KTT12                           | KTTA-19-G2                      |
| 500DFFB                                 | 500KTT12                           | KTTA-19-G2                      |

Replacement engines cannot be ordered from Onan.  
Order from your nearest Cummins distributor.

## Generator Set Data Table

| MODEL AND<br>SPECIFICATION | ELECTRICAL DATA    |        |          |          |                  | BATTERY<br>VOLTAGE |
|----------------------------|--------------------|--------|----------|----------|------------------|--------------------|
|                            | WATTS              | VOLTS  | HERTZ    | WIRE     | PHASE            |                    |
| 330DFEB/*<br>330KTA12      | 330,000            | #      | 50       | 12       | 1 or 3           | 24VDC              |
| 400DFEB/*<br>400KTA12      | 400,000            | #      | 60       | 12       | 1 or 3           | 24VDC              |
| 400DFEC/*<br>450DFEC/*     | 400,000<br>450,000 | #<br># | 50<br>60 | 12<br>12 | 1 or 3<br>1 or 3 | 24VDC<br>24VDC     |
| 400DFFA/*<br>400KTT11      | 400,000            | #      | 50       | 12       | 1 or 3           | 24VDC              |
| 450DFFA/*<br>400KTT11      | 450,000            | #      | 60       | 12       | 1 or 3           | 24VDC              |
| 450DFFB/*<br>450KTT12      | 450,000            | #      | 50       | 12       | 1 or 3           | 24VDC              |
| 500DFFB/*<br>500KTT12      | 500,000            | #      | 60       | 12       | 1 or 3           | 24VDC              |

- \* - The diagonal line (/) in the model and specification number separates generator set characteristics from the specification number and letter. The specification number denotes customer requested options or deviations from a standard model. The specification letter advances (E to F, F to G, etc.) with major manufacturing changes.
- # - Broad range reconnectable.



## Generator Table

| NEWAGE<br>MODEL NUMBER | NEWAGE<br>FRAME NUMBER | ONAN/CUMMINS<br>IDENTIFICATION NUMBER |
|------------------------|------------------------|---------------------------------------|
| HC534C-311-D52-4069    | 5                      | 249-0175-01                           |
| HC534D-311-D52-4069    | 5                      | 249-0175-02                           |
| HC534E-311-D52-4069    | 5                      | 249-0175-03                           |
| HC534C-017-D52-4069    | 5                      | 249-0178-01                           |
| HC534D-017-D52-4069    | 5                      | 249-0178-02                           |
| HC534E-017-D52-4069    | 5                      | 249-0178-03                           |
| HC534D-017-D52-4069    | 5                      | 249-0178-06                           |
| HC634A-312-D62-4170    | 6                      | 249-0176-02                           |

## Paint

| REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION                | REF<br>NO.  | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION      |
|------------|-------------|-------------|------------------------------------|-------------|-------------|-------------|--------------------------|
|            |             |             | Onan Green Enamel<br>(Non-Metalic) |             |             |             | Cummins Beige Enamel     |
| 525-0305   | -           | -           | 13 oz. Pressurized Spray           | 525-0551-02 | -           | -           | 13 oz. Pressurized Spray |
| 525-0306   | -           | -           | Can                                | 525-0551-03 | -           | -           | Can                      |
| 525-0304   | -           | -           | Quart Can                          | 525-0551-04 | -           | -           | Quart Can                |
|            |             |             | Gallon Can                         |             |             |             | Gallon Can               |

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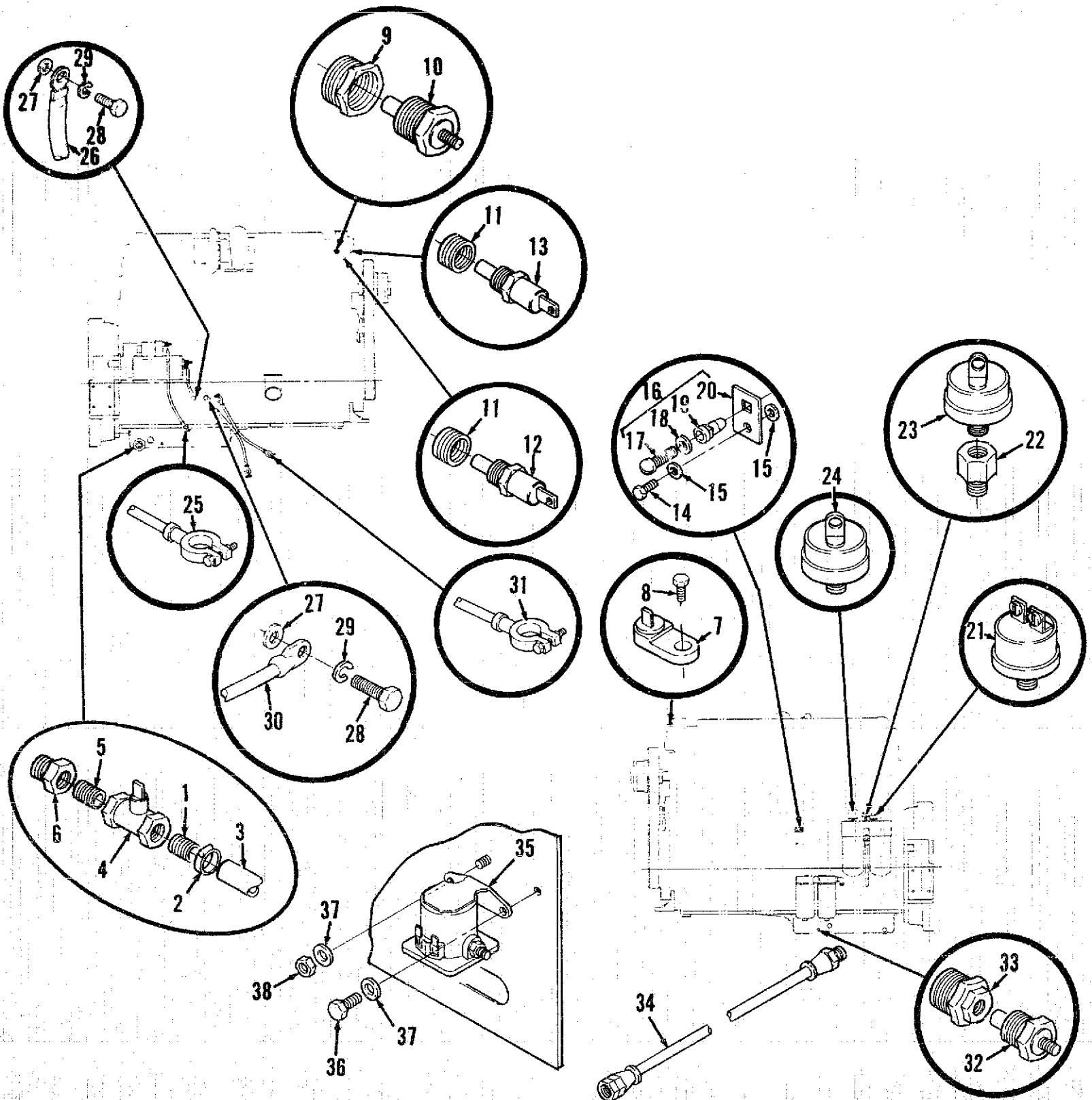
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# External Engine Parts



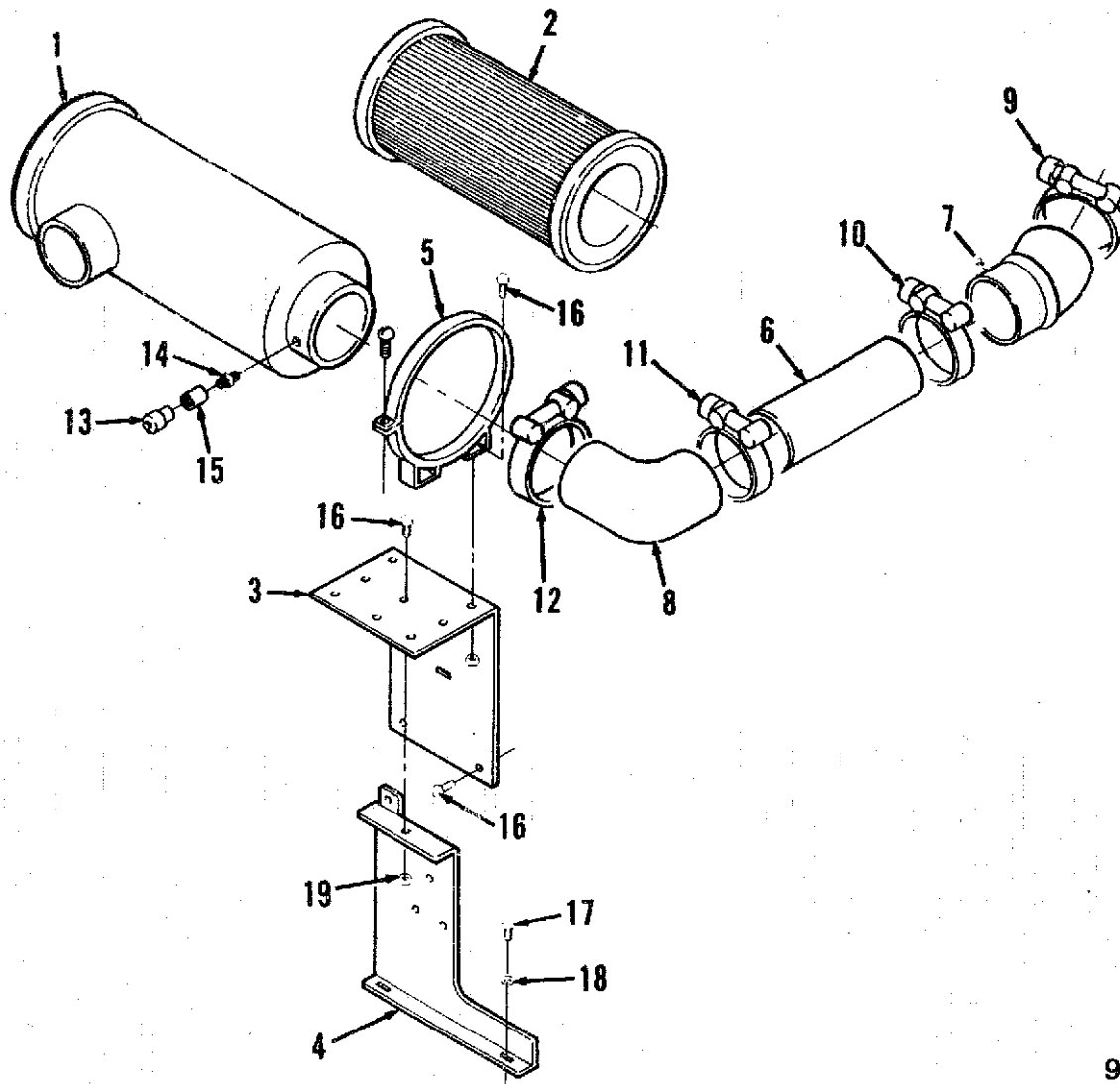
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## External Engine Parts

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                                                                                  | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                                    |
|---------|----------|----------|-------------------------------------------------------------------------------------------------------------------|---------|----------|----------|---------------------------------------------------------------------|
| 1       | 505-0324 | 1        | Nipple, Half (3/4" x 2")                                                                                          | 20      | 332-1281 | 1        | *Bracket, Terminal                                                  |
| 2       | 503-0189 | 1        | Clamp, Hose                                                                                                       | 21      | 309-0272 | 1        | Switch, Pressure - Oil -                                            |
| 3       | 503-1731 | 1        | Hose, Bulk (Order by the foot)<br>(Two feet required)<br>(1" ID x 1-1/4" OD)                                      |         |          |          | Closes at 20 lbs. Descending<br>(S5 - Pre-Alarm)                    |
| 4       | 504-0171 | 1        | Valve, Shutoff                                                                                                    | 22      | 502-0175 | 1        | Adapter, Pipe (1/8" x 1/8")                                         |
| 5       | 505-0102 | 1        | Nipple, Pipe (3/4" x 1-3/8")                                                                                      | 23      | 309-0561 | 1        | Switch, Pressure - Oil -                                            |
| 6       | 505-1433 | 1        | Adapter, Pipe                                                                                                     |         |          |          | Closes at 14 lbs. Descending<br>(S1)                                |
| 7       | 309-0269 | 1        | Switch, Temperature - Low<br>Engine Coolant (S4)                                                                  | 24      | 193-0244 | 1        | Sender, Pressure - Oil (E1)                                         |
| 8       | 800-0062 | 1        | Screw, Cap - Hex Head<br>(3/8-16 x 4")                                                                            | 25      | 416-0444 | 1        | Cable, Battery (44")                                                |
| 9       | 505-0021 | 1        | Bushing, Reducer (3/4" to<br>1/2")                                                                                | 26      | 416-0632 | 1        | Cable, Battery (14-1/2")                                            |
| 10      | 193-0375 | 1        | Sender, Temperature - Water<br>(E2)                                                                               | 27      | 856-0013 | 2        | Washer, Lock - EIT (1/2")                                           |
| 11      | 505-0019 | 2        | Bushing, Reducer (1/2" to 3/8")                                                                                   | 28      | 800-0090 | 2        | Screw, Cap - Hex Head<br>(1/2-13 x 1")                              |
| 12      | 309-0179 | 1        | Switch, Thermostat - High<br>Engine Coolant Temperature<br>(Opens at 190°F - Closes at<br>215°F) (S6 - Pre-Alarm) | 29      | 850-0060 | 2        | Washer, Lock - Spring (1/2")                                        |
| 13      | 309-0437 | 1        | Switch, Thermostat - High<br>Engine Coolant Temperature<br>(Opens at 202°F - Closes at<br>222°F) (S2)             | 30      | 416-0960 | 1        | Cable, Battery (29")                                                |
| 14      | 800-0270 | 1        | Screw, Cap - Hex Head<br>(3/8-24 x 5/8")                                                                          | 31      | 416-0446 | 1        | Cable, Battery (12-1/2")                                            |
| 15      | 856-0010 | 2        | Washer, Lock - EIT (3/8")                                                                                         | 32      | 193-0353 | 1        | Sender, Temperature - Oil (E4)                                      |
| 16      | 332-1292 | 1        | Terminal Assembly (Includes<br>Parts Marked *) (T26)                                                              | 33      | 505-0151 | 1        | Bushing, Reducer (1/2" to 1/8")                                     |
| 17      | 809-0036 | 1        | *Screw, Sheet Metal - Round<br>Head (#8 x 7/8")                                                                   | 34      | 501-0084 | 1        | Line, Fuel - Flexible<br>Fuel Supply (36")                          |
| 18      | 508-0015 | 1        | *Washer, Fiber                                                                                                    |         | 501-0216 | 1        | Fuel Return (42")                                                   |
| 19      | 870-0196 | 1        | *Nut, Insulation                                                                                                  | 35      | 307-2167 | 1        | Relay, Solenoid - Start -<br>Begin Spec F                           |
|         |          |          |                                                                                                                   | 36      | 821-0010 | 1        | Screw, Locking - Hex Washer<br>Head (1/4-20 x 1/2")<br>Begin Spec F |
|         |          |          |                                                                                                                   | 37      | 856-0006 | 2        | Washer, Lock - EIT (1/4")<br>Begin Spec F                           |
|         |          |          |                                                                                                                   | 38      | 862-0013 | 1        | Nut, Hex (1/4-20) Begin Spec F                                      |

\* - Parts Included in 332-1292 Terminal Assembly.

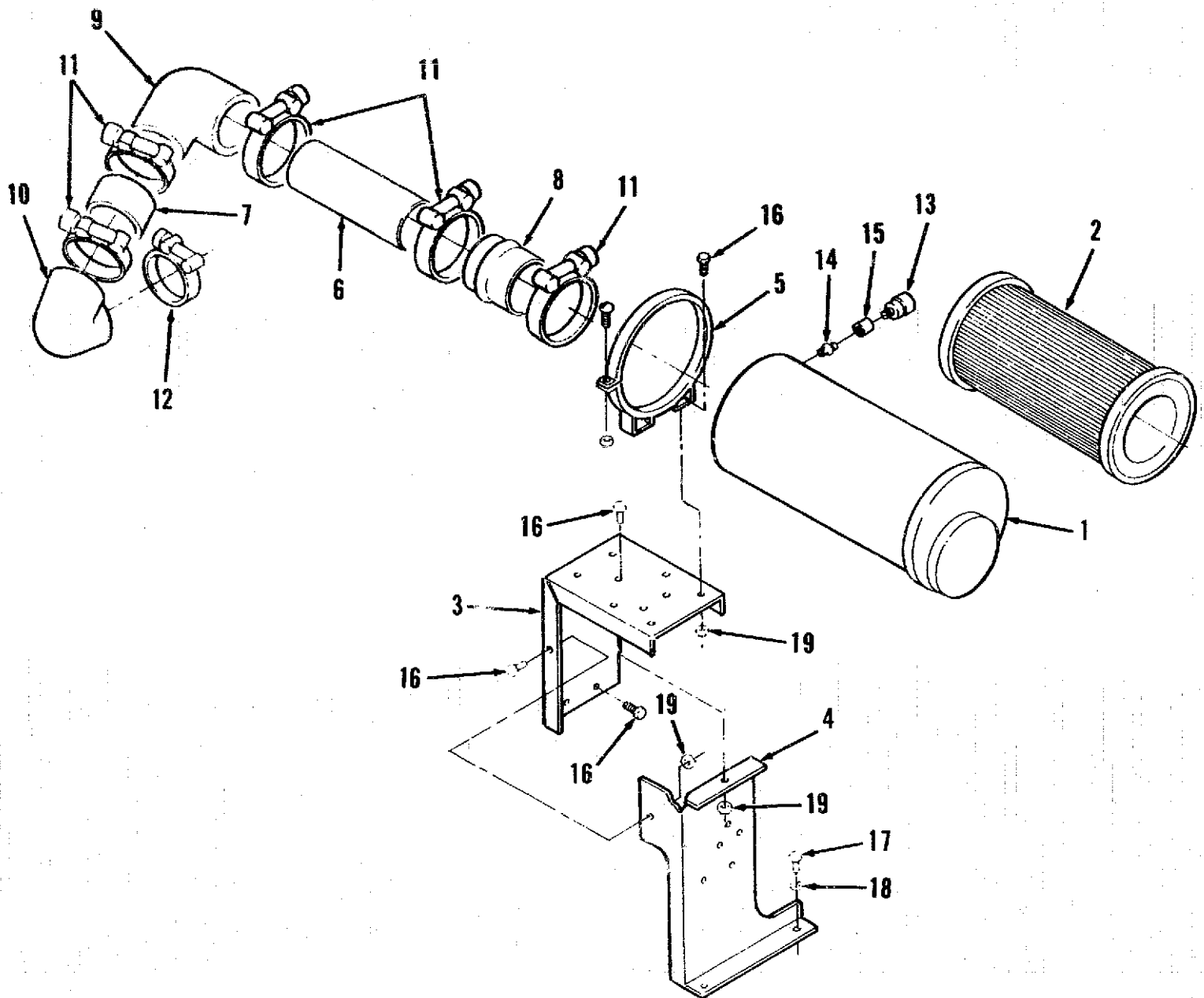
# Air Cleaner (Standard - DFEB, DFEC, KTA12)



947B

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                    | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                               |
|---------|----------|----------|-------------------------------------|---------|----------|----------|------------------------------------------------|
| 1       | 140-2463 | 1        | Cleaner, Air (Includes Element)     | 11      | 503-1045 | 1        | Clamp, Hose (6-3/4" ID)                        |
| 2       | 140-2464 | 1        | Element                             | 12      | 503-0881 | 1        | Clamp, Hose (7-3/4" ID)                        |
| 3       | 140-2460 | 1        | Bracket, Mounting                   | 13      | 140-1548 | 1        | Indicator, Service                             |
| 4       | 140-2459 | 1        | Bracket, Mounting                   | 14      | 505-0026 | 1        | Coupling, Pipe (1/8")                          |
| 5       | 140-1973 | 2        | Band, Mounting                      | 15      | 505-0098 | 1        | Nipple, Close - Pipe (1/8")                    |
| 6       | 140-2516 | 1        | Tube, Inlet                         | 16      | 821-0029 | 8        | Screw, Self-Locking - Hex Head (3/8-16 x 3/4") |
| 7       | 503-1702 | 1        | Elbow, Reducer (6" to 5-1/2") (36°) | 17      | 800-0088 | 2        | Screw, Cap - Hex Head (1/2-13 x 3/4")          |
| 8       | 503-1703 | 1        | Elbow, Reducer (7" to 6") (90°)     | 18      | 850-0060 | 2        | Washer, Lock - Spring (1/2")                   |
| 9       | 503-0863 | 1        | Clamp, Hose (6" ID)                 | 19      | 870-0281 | 6        | Nut, Locking - Hex Flange Head (3/8-16)        |
| 10      | 503-0864 | 1        | Clamp, Hose (6-1/2" ID)             |         |          |          |                                                |

# Air Cleaner (Standard - DFFA, DFFB, KTT11, KTT12)

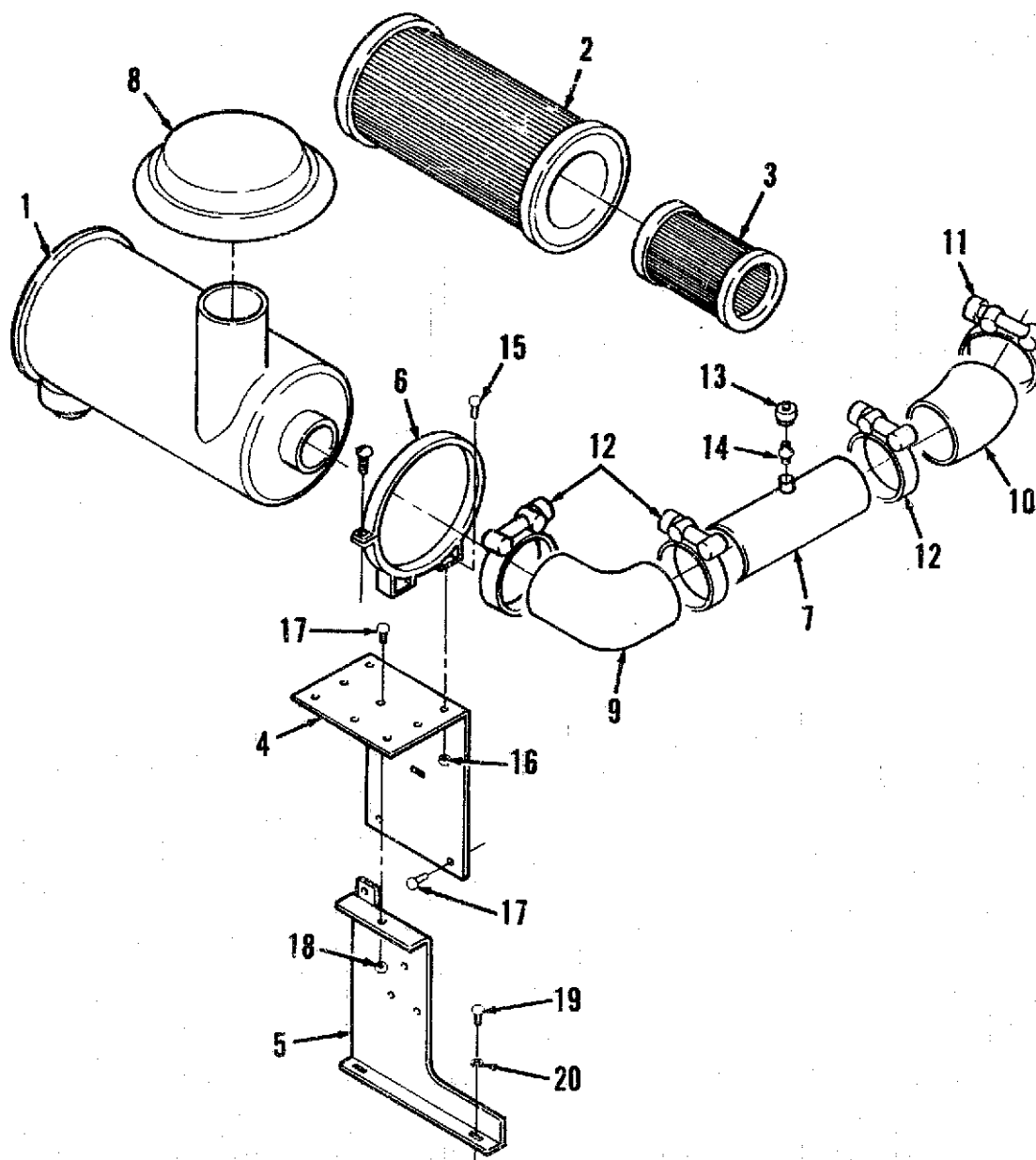


957C

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                    | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                               |
|---------|----------|----------|-------------------------------------|---------|----------|----------|------------------------------------------------|
| 1       | 140-2463 | 1        | Cleaner, Air (Includes Element)     | 11      | 503-0881 | 5        | Clamp, Hose (7-3/4" ID)                        |
| 2       | 140-2464 | 1        | Element                             | 12      | 503-0988 | 1        | Clamp, Hose (6-1/4" ID)                        |
| 3       | 140-2462 | 1        | Bracket, Mounting                   | 13      | 140-1548 | 1        | Indicator, Service                             |
| 4       | 140-2461 | 1        | Bracket, Mounting                   | 14      | 505-0026 | 1        | Coupling, Pipe (1/8")                          |
| 5       | 140-1973 | 2        | Band, Mounting                      | 15      | 505-0098 | 1        | Nipple, Close - Pipe (1/8")                    |
| 6       | 140-2469 | 1        | Tube, Inlet (14")                   | 16      | 821-0029 | 8        | Screw, Self-Locking - Hex Head (3/8-16 x 3/4") |
| 7       | 140-2100 | 1        | Tube, Inlet (8")                    | 17      | 800-0088 | 2        | Screw, Cap - Hex Head (1/2-13 x 3/4")          |
| 8       | 503-1705 | 1        | Hose                                | 18      | 850-0060 | 2        | Washer, Lock - Spring (1/2")                   |
| 9       | 503-1484 | 1        | Elbow, Hose - 45°                   | 19      | 870-0281 | 6        | Nut, Locking - Hex Flange Head (3/8-16)        |
| 10      | 503-0882 | 1        | Elbow, Reducer (7" to 5-1/2") (90°) |         |          |          |                                                |



# Air Cleaner (Heavy Duty - DFEB, DFEC, KTA12)

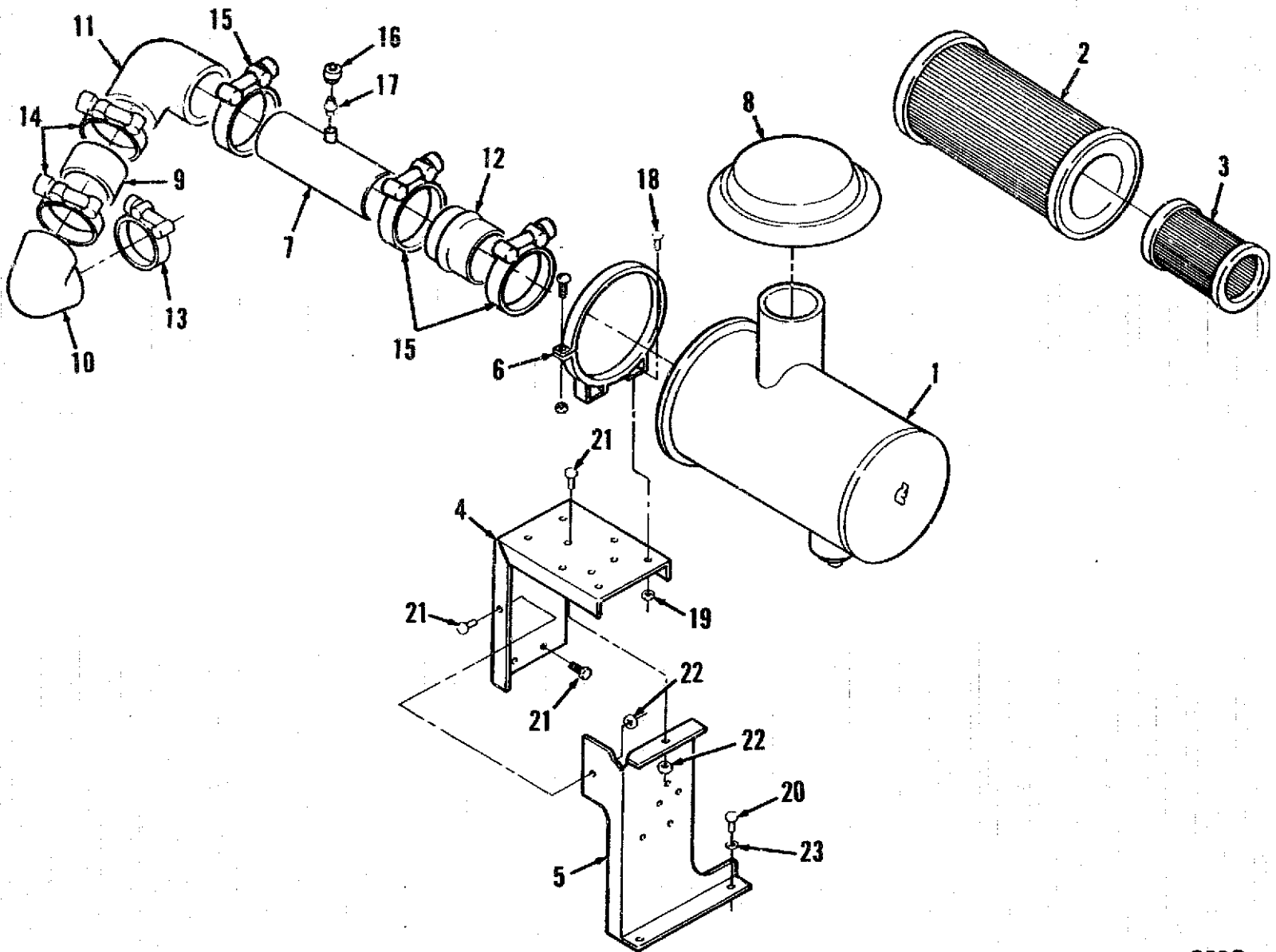


940A

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                    | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                       |
|---------|----------|----------|-------------------------------------|---------|----------|----------|--------------------------------------------------------|
| 1       | 140-2301 | 1        | Cleaner, Air (Includes Elements)    | 13      | 140-1548 | 1        | Indicator, Service                                     |
| 2       | 140-2465 | 1        | Element, Primary                    | 14      | 140-1260 | 1        | Fitting                                                |
| 3       | 140-2466 | 1        | Element, Safety                     | 15      | 821-0033 | 4        | Screw, Self-Locking - Hex Washer Head (7/16-18 x 3/4") |
| 4       | 140-2460 | 1        | Bracket, Mounting                   | 16      | 870-0437 | 4        | Nut, Locking - Hex Flange Head (7/16")                 |
| 5       | 140-2459 | 1        | Bracket, Mounting                   | 17      | 821-0029 | 4        | Screw, Self-Locking - Hex Head (3/8-16 x 3/4")         |
| 6       | 140-2052 | 2        | Band, Mounting                      | 18      | 870-0281 | 2        | Nut, Locking - Hex Flange Head (3/8-16)                |
| 7       | 140-2474 | 1        | Tube, Inlet                         | 19      | 800-0088 | 2        | Screw, Cap - Hex Head (1/2-13 x 3/4")                  |
| 8       | 140-1545 | 1        | Hood, Inlet                         | 20      | 850-0060 | 2        | Washer, Lock - Spring (1/2")                           |
| 9       | 503-1461 | 1        | Elbow, Hose - 90°                   |         |          |          |                                                        |
| 10      | 503-1702 | 1        | Elbow, Reducer (6" to 5-1/2" (36")) |         |          |          |                                                        |
| 11      | 503-0863 | 1        | Clamp, Hose (6" ID)                 |         |          |          |                                                        |
| 12      | 503-0864 | 3        | Clamp, Hose (6-1/2" ID)             |         |          |          |                                                        |



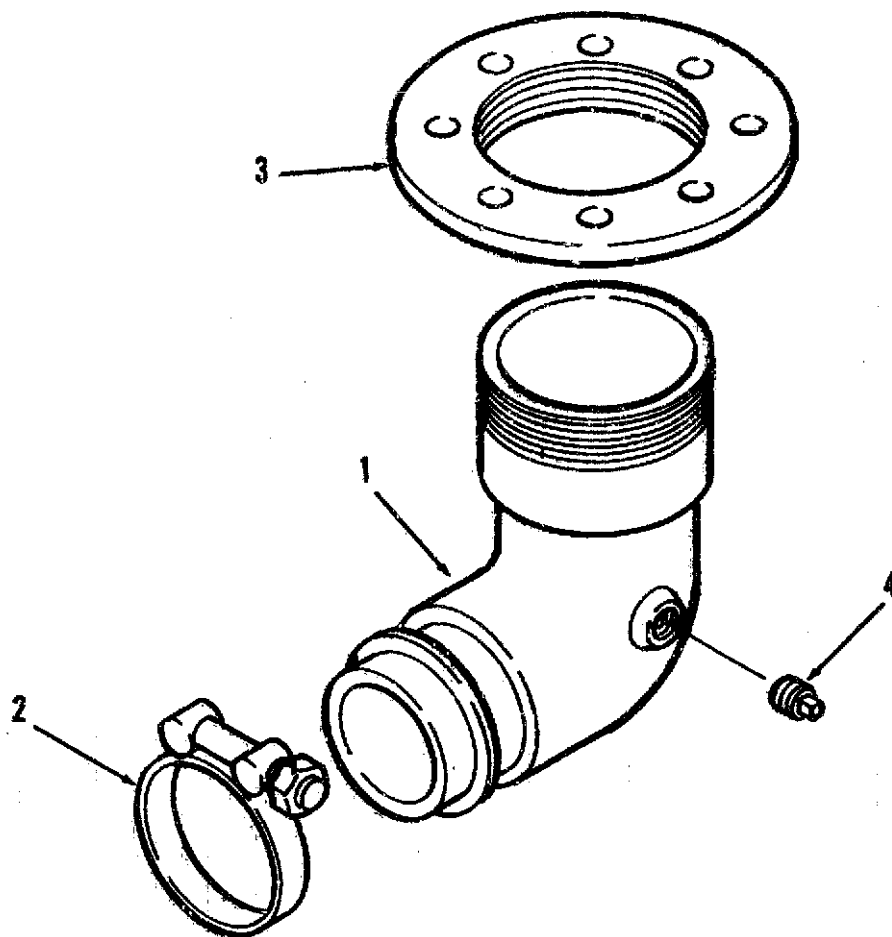
# **Air Cleaner** (Heavy Duty - DFFA, DFFB, KTT11, KTT12)



960C

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                    | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                |
|---------|----------|----------|-------------------------------------|---------|----------|----------|-------------------------------------------------|
| 1       | 140-2097 | 1        | Cleaner, Air (Includes Elements)    | 14      | 503-0881 | 2        | Clamp, Hose (7-3/4" ID)                         |
| 2       | 140-2096 | 1        | Element, Primary                    | 15      | 503-1487 | 3        | Clamp, Hose (8-3/4" ID)                         |
| 3       | 140-2467 | 1        | Element, Safety                     | 16      | 140-1548 | 1        | Indicator, Service                              |
| 4       | 140-2462 | 1        | Bracket, Mounting                   | 17      | 140-1260 | 1        | Fitting                                         |
| 5       | 140-2461 | 1        | Bracket, Mounting                   | 18      | 821-0033 | 4        | Screw, Self-Locking - Hex Head (7/16-14 x 3/4") |
| 6       | 140-2099 | 2        | Band, Mounting                      | 19      | 870-0437 | 4        | Nut, Locking - Hex Flange Head (7/16")          |
| 7       | 140-2472 | 1        | Tube, Inlet                         | 20      | 800-0088 | 2        | Screw, Cap - Hex Head (1/2-13 x 3/4")           |
| 8       | 140-2098 | 1        | Hood, Inlet                         | 21      | 821-0029 | 4        | Screw, Self-Locking - Hex Head (3/8-16 x 3/4")  |
| 9       | 140-2470 | 1        | Tube, Inlet                         | 22      | 870-0281 | 2        | Nut, Locking - Hex Flange Head (3/8-16)         |
| 10      | 503-0882 | 1        | Elbow, Reducer (7" to 5-1/2") (90°) | 23      | 850-0060 | 2        | Washer, Lock - Spring (1/2")                    |
| 11      | 503-1704 | 1        | Elbow, Reducer (8" to 7") (63°)     |         |          |          |                                                 |
| 12      | 503-1706 | 1        | Hose                                |         |          |          |                                                 |
| 13      | 503-0988 | 1        | Clamp, Hose (6-1/4" ID)             |         |          |          |                                                 |

# Exhaust Elbow (Unhoused Sets)

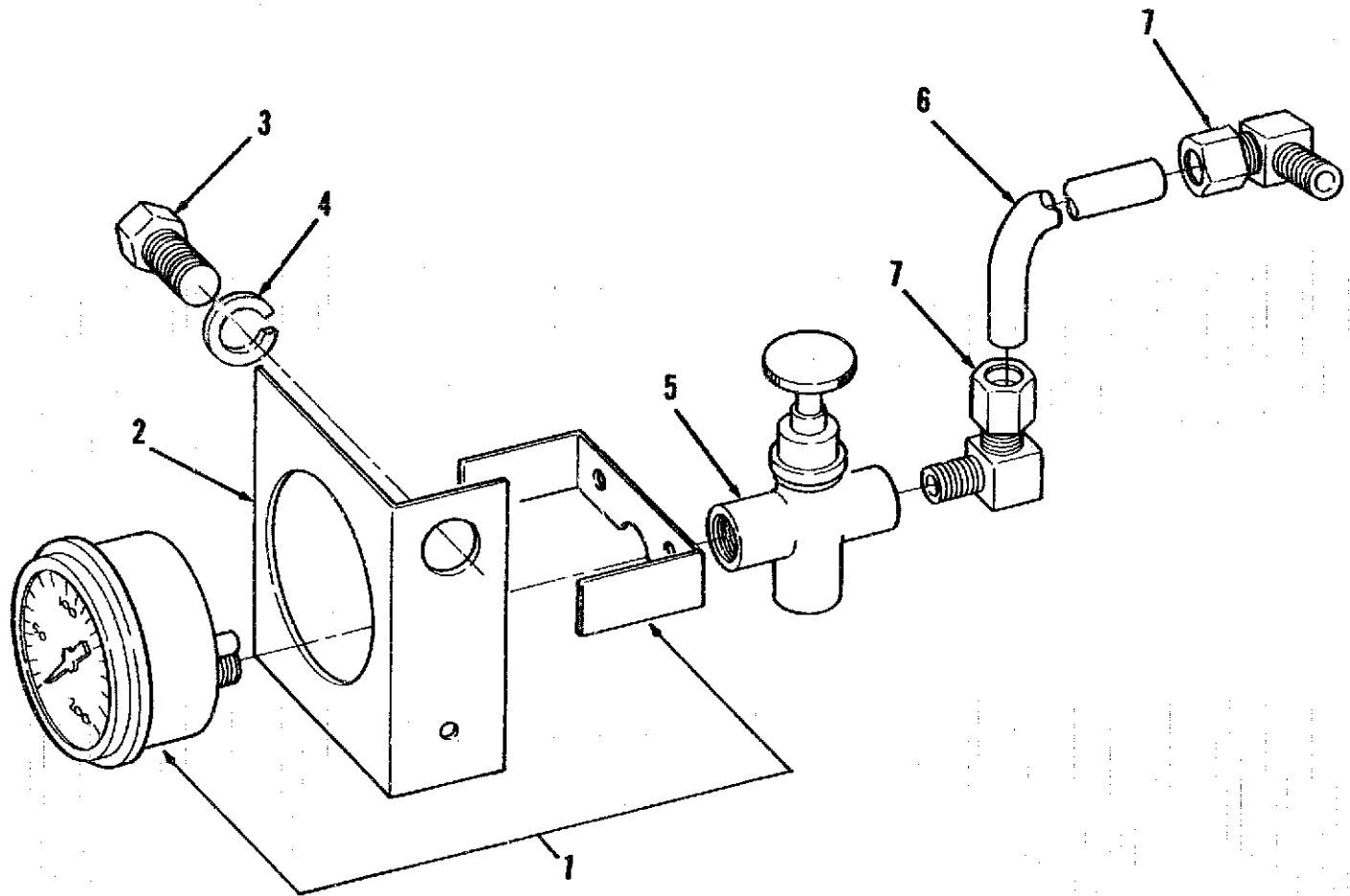


919A

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                            |
|---------|----------|----------|---------------------------------------------|
| 1       | 155-2438 | 1        | Elbow, Exhaust                              |
|         | 155-2437 | 1        | DFEB, DFEC, KTA12, DFFA, DFFB, KTT11, KTT12 |
| 2       | 503-1619 | 1        | Clamp, V Band                               |
|         | 503-1618 | 1        | DFEB, DFEC, KTA12, DFFA, DFFB, KTT11, KTT12 |

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                |
|---------|----------|----------|---------------------------------|
| 3       | 155-0658 | 1        | Flange (Not Used on All Models) |
| 4       | 502-0080 | 1        | Plug - Square Head (1/8")       |

# Fuel Pressure Gauge

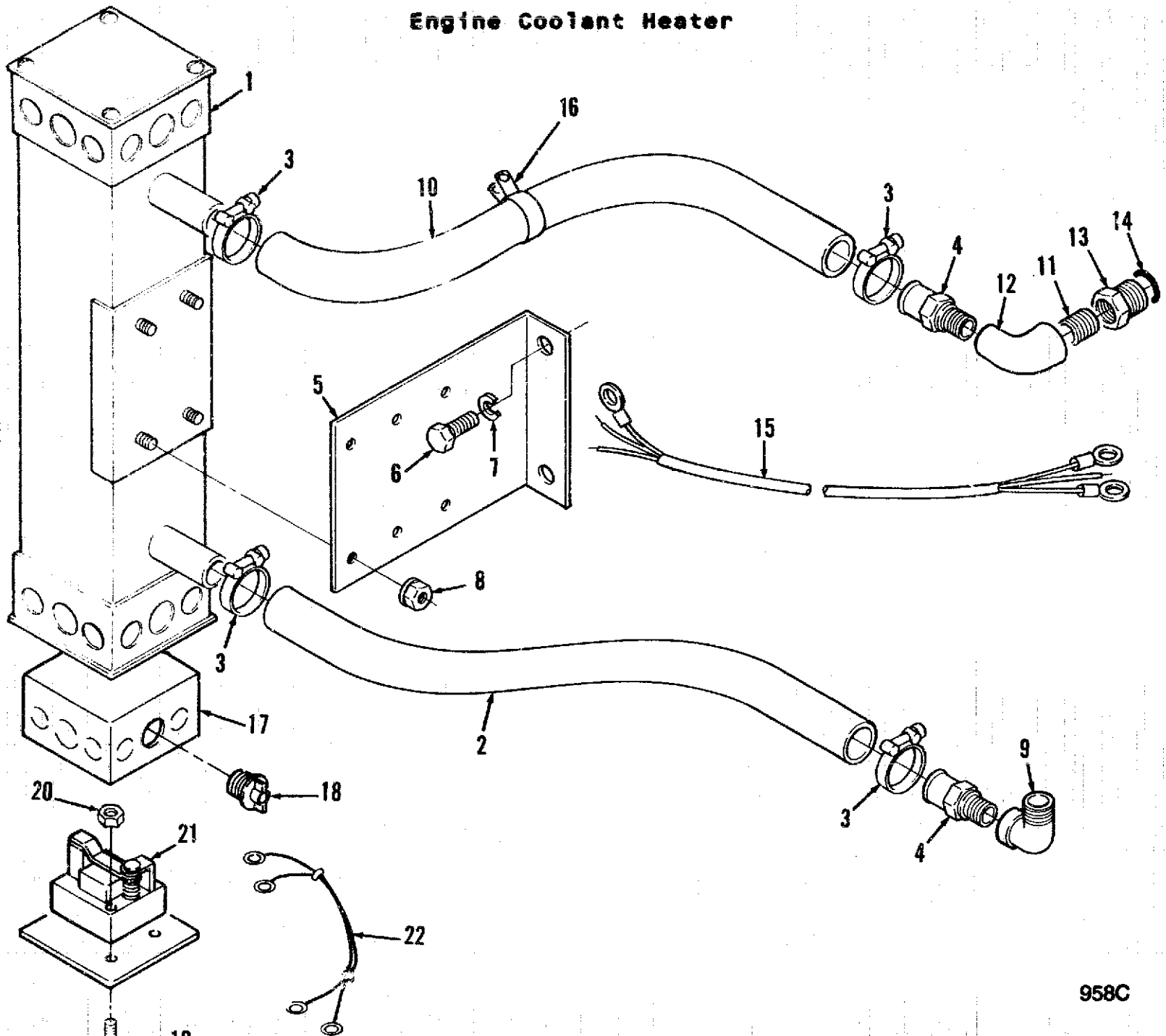


945B

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                             |
|---------|----------|----------|----------------------------------------------|
| 1       | 193-0128 | 1        | Gauge, Pressure (Includes Mounting Hardware) |
| 2       | 193-0029 | 1        | Bracket, Mounting                            |
| 3       | 800-0130 | 1        | Screw, Cap - Hex Head (5/8-11 x 1")          |

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                 |
|---------|----------|----------|--------------------------------------------------|
| 4       | 850-0070 | 1        | Washer, Lock - Spring (5/8")                     |
| 5       | 504-0064 | 1        | Valve                                            |
| 6       | 370-4003 | 1        | Tube, Copper                                     |
| 7       | 502-0034 | 2        | Elbow, Compression - 90" (Includes Nut and Ring) |

# Engine Coolant Heater



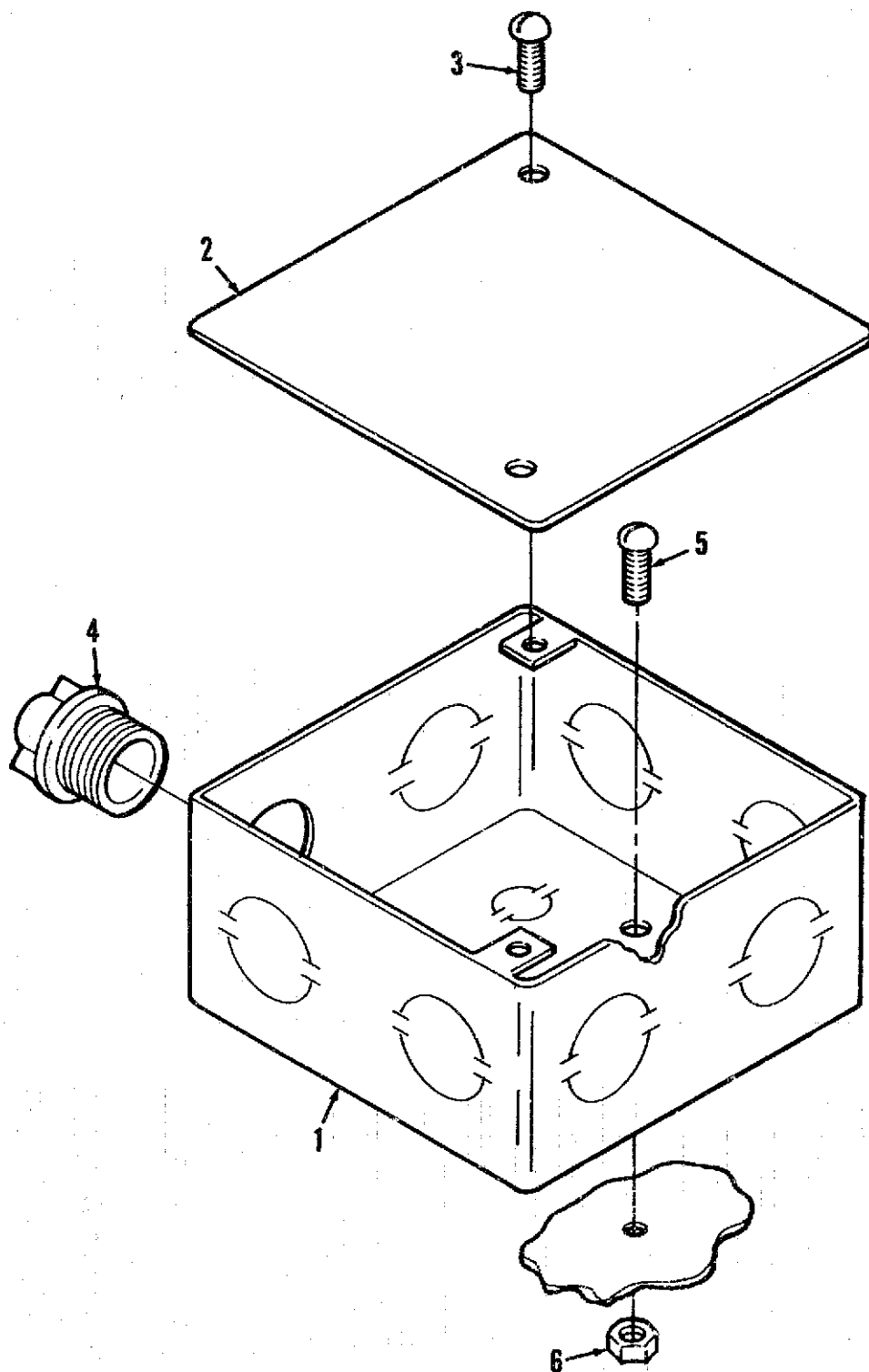
958C

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                                           |
|---------|-------------|----------|----------------------------------------------------------------------------|
| 1       |             |          | Heater, Coolant (4000 Watt)<br>(Includes Thermostat and<br>Parts Marked *) |
|         | 333-0494-02 | 1        | 120 Volt                                                                   |
|         | 333-0494-01 | 1        | 208, 240, 480 Volt                                                         |
|         | 333-0468    | 1        | Thermostat, Heater (Service<br>Replacement) (Not Illustrated)              |
| 2       | 503-1779    | -        | Hose, Inlet - Bulk (1" ID)<br>(Order by the foot -<br>4' required)         |
| 3       | 503-0189    | 4        | Clamp, Hose                                                                |
| 4       | 502-0971    | 2        | Connector, Hose                                                            |
| 5       | 130-3719    | 1        | Bracket, Mounting                                                          |
| 6       | 800-0130    | 2        | Screw, Cap - Hex Head<br>(5/8-11 x 1")                                     |
| 7       | 850-0070    | 2        | Washer, Lock - Spring (5/8")                                               |
| 8       | 870-0212    | 4        | Nut, Locking - Hex Head<br>(1/4-20)                                        |
| 9       | 505-0051    | 1        | Elbow, Street (3/4" x 90")                                                 |
| 10      | 503-1779    | -        | Hose, Outlet - Bulk (1" ID)<br>(Order by the foot - 3'<br>required)        |

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                              |
|---------|-------------|----------|-----------------------------------------------|
| 11      | 505-0004    | 1        | Nipple, Close (1")                            |
| 12      | 505-0356    | 1        | Elbow, Reducing - 90°<br>(1" to 3/4")         |
| 13      | 505-1384    | 1        | Bushing, Reducer                              |
| 14      | 509-0272    | 1        | Seal, O-Ring                                  |
| 15      | 338-2446    | 1        | Harness, Wiring                               |
| 16      | 518-0548-02 | 1        | Clip, Retainer                                |
| 17      | 330-0144    | 1        | *Box, Extension                               |
| 18      | 331-0027    | 1        | *Connector, Romex                             |
| 19      | 812-0082    | 2        | *Screw, Machine - Round Head<br>(8-32 x 3/4") |
| 20      | 870-0221    | 2        | *Nut, Hex - with ET (8-32)                    |
| 21      | 307-2762    | 1        | *Relay, Power                                 |
| 22      | 338-2760-02 | 1        | *Harness, Wiring (Relay to T26<br>Terminal)   |

\* - Parts Included in Engine Coolant Heater

# **Junction Box (Engine Coolant Heater)**

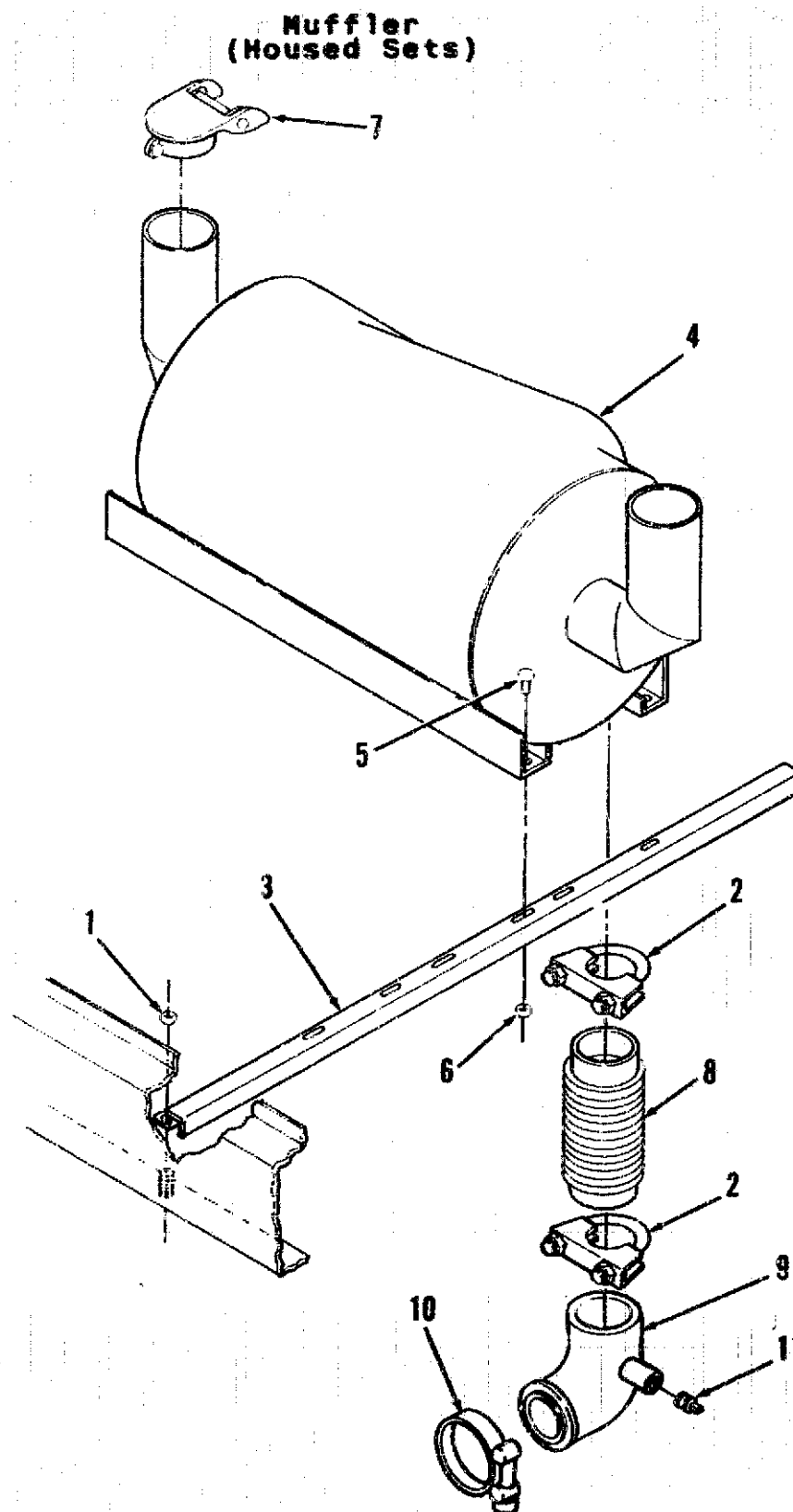


918A

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                               |
|---------|----------|----------|------------------------------------------------|
| 1       | 330-0093 | 1        | Box, Junction                                  |
| 2       | 330-0006 | 1        | Cover                                          |
| 3       | 812-0079 | 2        | Screw, Sheet Metal - Round Head (#8-32 x 1/2") |

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                          |
|---------|----------|----------|-------------------------------------------|
| 4       | 331-0042 | 2        | Connector, Knockout                       |
| 5       | 813-0105 | 2        | Screw, Machine - Round Head (#10-32 x 1") |
| 6       | 870-0131 | 2        | Nut, Hex - With EIT (#10-32)              |



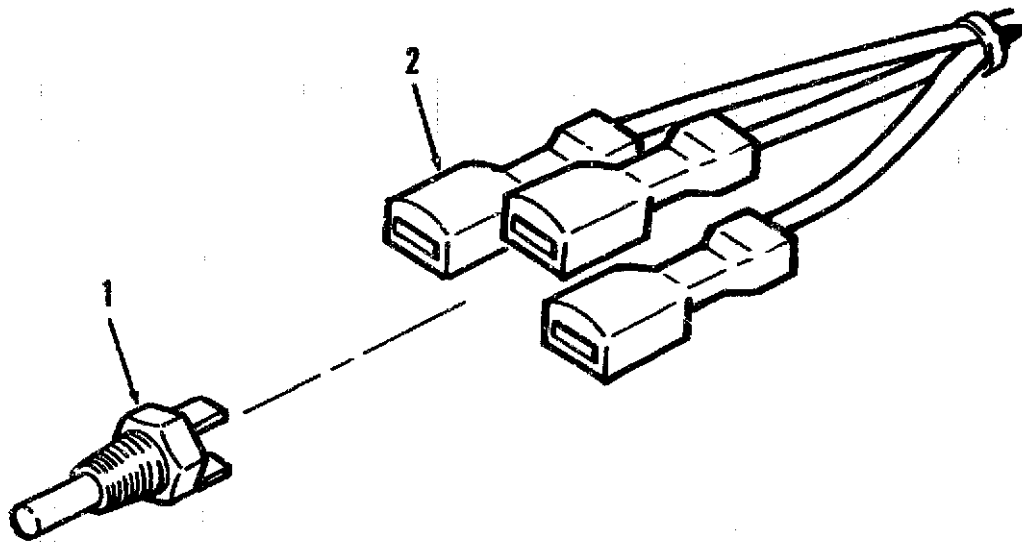


944A

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                  |
|---------|-------------|----------|---------------------------------------------------|
| 1       | 870-0257    | 4        | Nut, Locking - Hex Head (5/16-18)                 |
| 2       | 155-2159    | 2        | Clamp, Muffler                                    |
| 3       | 155-2440    | 2        | Bracket, Mounting                                 |
| 4       | 155-2439    | 1        | Muffler                                           |
| 5       | 821-0033    | 4        | Screw, Locking - Hex Washer Head (7/16-14 x 3/4") |
| 6       | 870-0437    | 4        | Nut, Locking - Hex Head (7/16-14)                 |
| 7       | 155-2062-05 | 2        | Cap, Rain                                         |

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                             |
|---------|----------|----------|----------------------------------------------|
| 8       | 155-2441 | 1        | Tubing, Flexible 21-3/8" - DFEB, DFEC, KTA12 |
|         | 155-2442 | 1        | 16-1/8" - OFFA, OFFB, KTT11, KTT12           |
| 9       | 155-2435 | 1        | Elbow, Exhaust DFEB, DFEC, KTA12             |
|         | 155-2436 | 1        | OFFA, OFFB, KTT11, KTT12                     |
| 10      | 503-1619 | 1        | Clamp, V Band DFEB, DFEC, KTA12              |
|         | 503-1618 | 1        | OFFA, OFFB, KTT11, KTT12                     |
| 11      | 502-0080 | 1        | Plug - Square Head (1/4")                    |

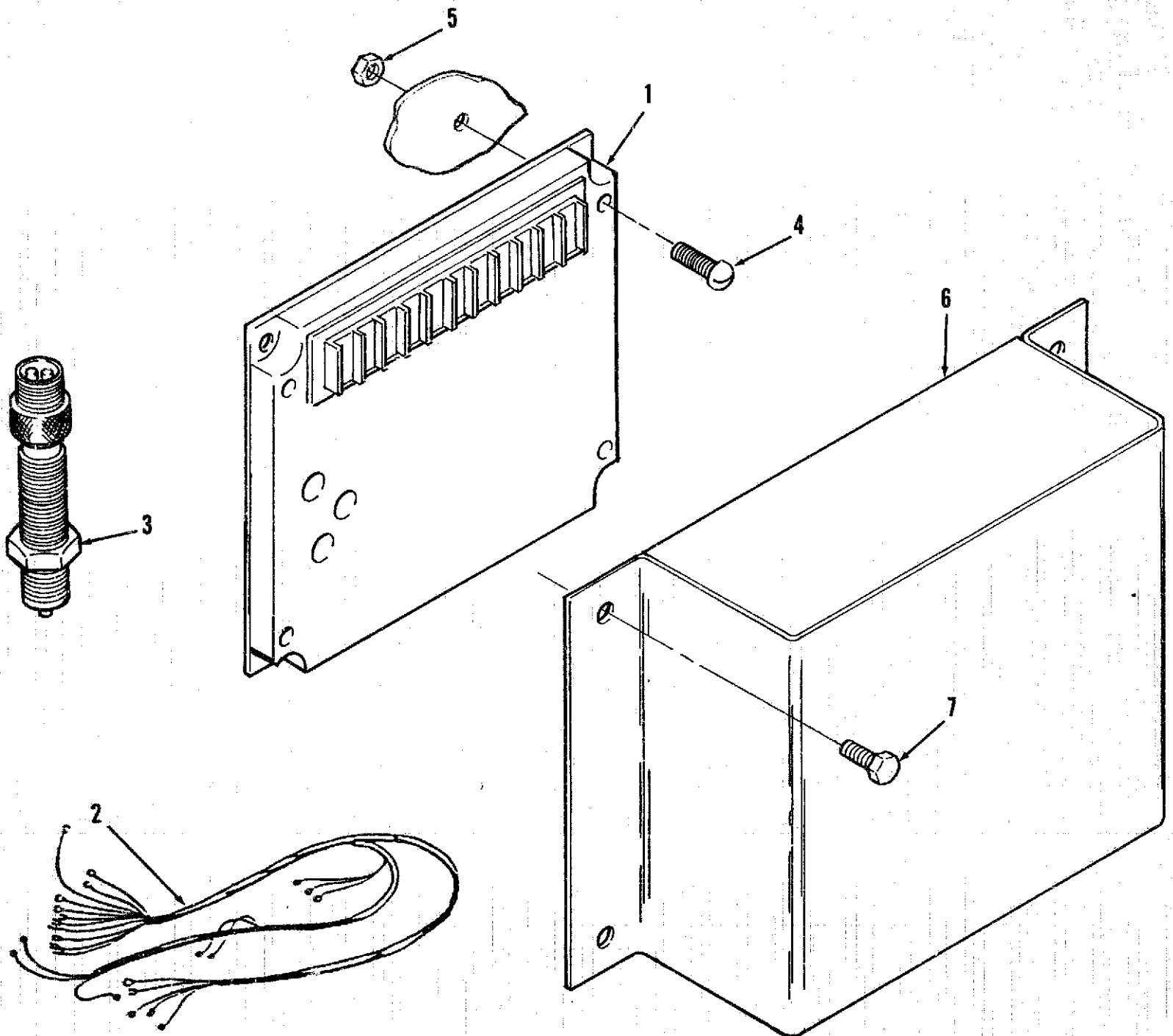
# Low Coolant Level Sender



935A

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                             | REF NO. | PART NO. | QTY USED | PART DESCRIPTION |
|---------|----------|----------|----------------------------------------------|---------|----------|----------|------------------|
| 1       | 193-0322 | 1        | Sender - Low Coolant Level (S7)              |         |          |          |                  |
| 2       |          |          | Harness, Wiring                              |         |          |          |                  |
|         | 338-1919 | 1        | Used on Generator Sets with Heat Exchanger   |         |          |          |                  |
|         | 338-2010 | 1        | Used on Generator Sets with Radiator Cooling |         |          |          |                  |

# Electronic Governor

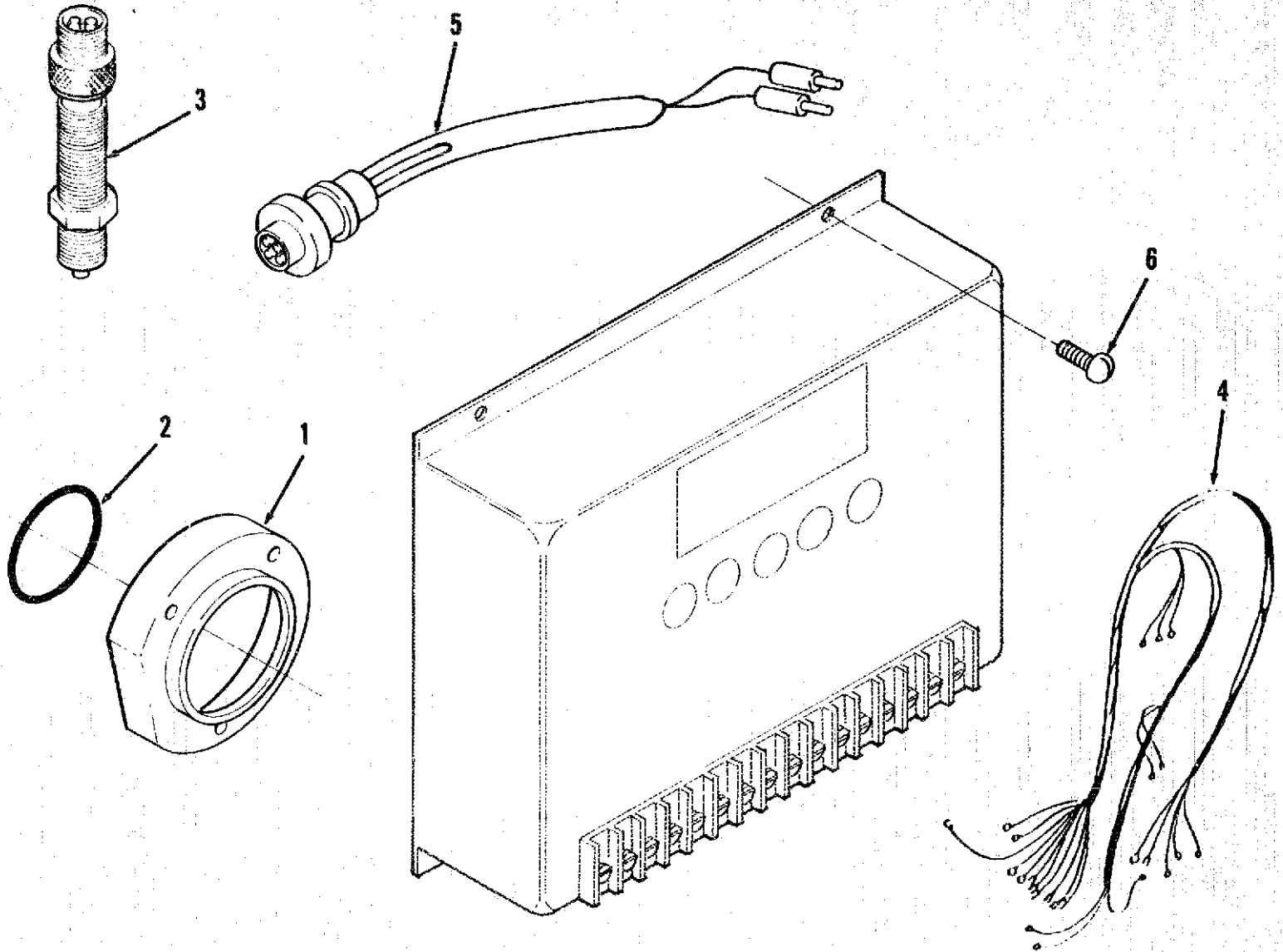


949B

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION           |
|---------|----------|----------|----------------------------|
| 1       | 151-0637 | 1        | Control, Governor          |
| 2       | 338-2444 | 1        | Harness, Wiring - Governor |
|         | 338-2563 | 1        | Control                    |
|         | 151-0411 | 1        | 56"                        |
|         |          | 1        | 68"                        |
| 3       | 151-0411 | 1        | Pickup, Magnetic           |

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                            |
|---------|----------|----------|---------------------------------------------|
| 4       | 813-0103 | 4        | Screw, Machine - Round Head (#10-32 x 3/4") |
| 5       | 870-0131 | 4        | Nut, Hex - With ET (#10-32)                 |
| 6       | 150-2213 | 1        | Cover, Control                              |
| 7       | 821-0010 | 4        | Screw, Locking - Hex Head (1/4-20 x 1/2")   |

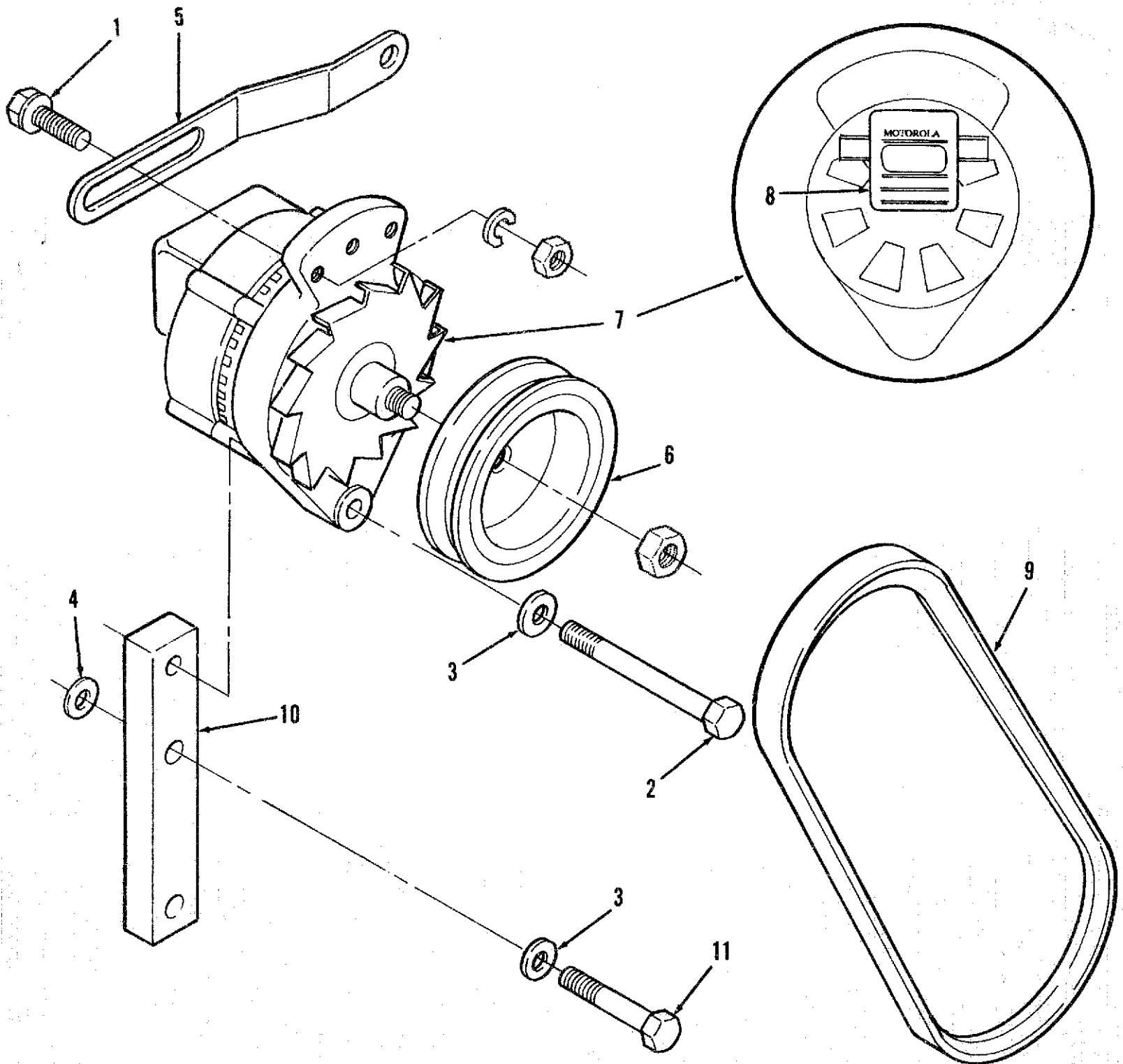
# Woodward Governor



946B

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                   | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                             |
|---------|-------------|----------|------------------------------------|---------|----------|----------|--------------------------------------------------------------|
| 1       | 150-2334    | 1        | Plug - Fuel Pump EFC Cavity        | 5       | 338-2538 | 1        | Harness, Adapter - Woodward Governor to Engine Harness (12") |
| 2       | 509-0272-02 | 1        | Seal, O-Ring - EFC Cavity Plug     | 6       | 813-0103 | 4        | Screw, Machine - Round Head (#10-32 x 3/4")                  |
| 3       | 151-0411    | 1        | Pickup, Magnetic                   |         |          |          |                                                              |
| 4       | 338-2444    | 1        | Harness, Wiring - Governor Control |         |          |          |                                                              |

Alternator - (35 Amp)  
(DFEB, DFFA, DFFB - Spec E)



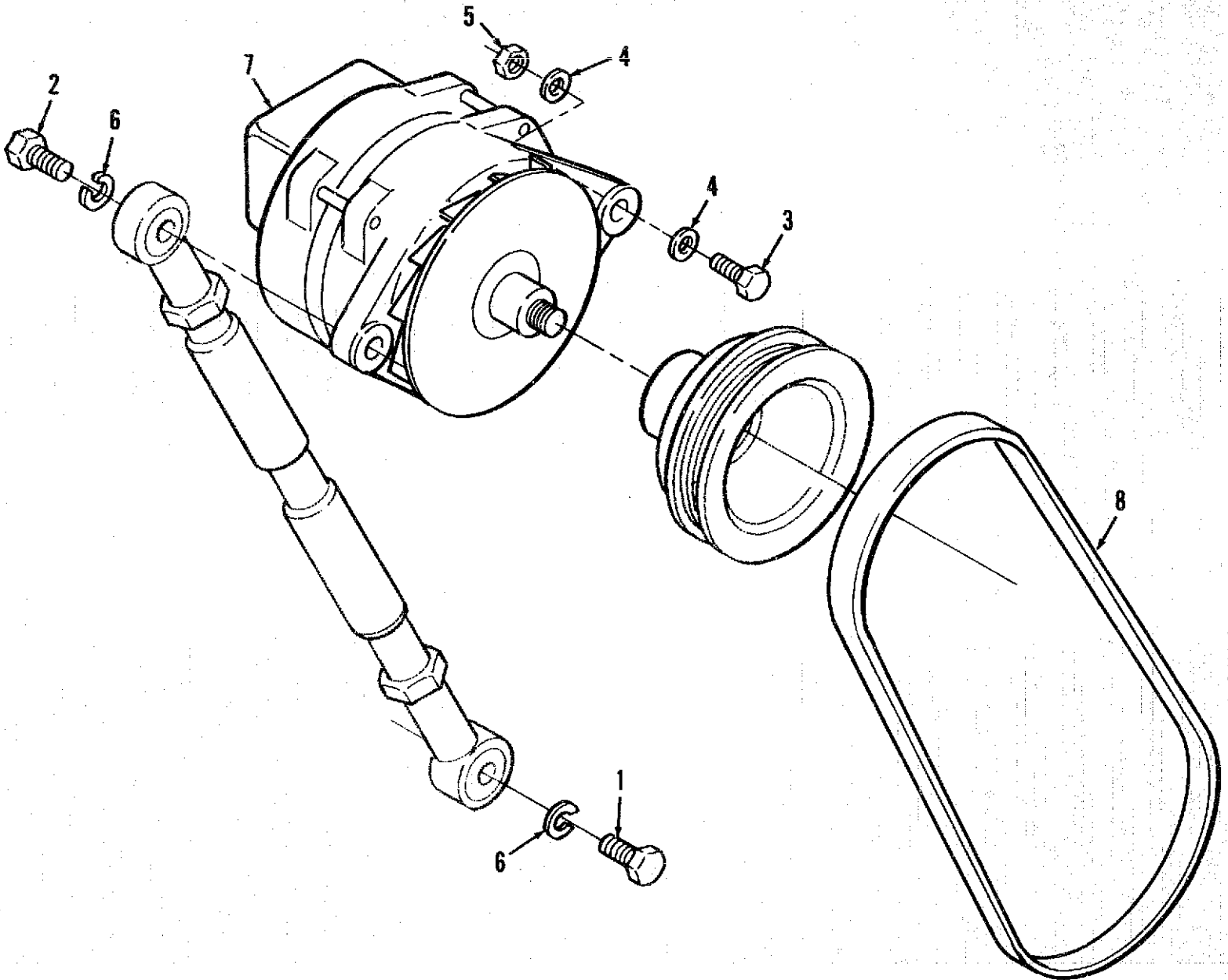
941A

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                  |
|---------|----------|----------|---------------------------------------------------|
| 1       | 821-0016 | 1        | Screw, Locking - Hex Washer Head (5/16-18 x 3/4") |
| 2       | 800-0095 | 1        | Screw, Cap - Hex Head (1/2-13 x 2-1/4")           |
| 3       | 850-0060 | 3        | Washer, Lock - Spring (1/2")                      |
| 4       | 526-0219 | 2        | Washer, Flat (1/2")                               |
| 5       | 191-0101 | 1        | Strap, Adjusting                                  |
| 6       | 191-1391 | 1        | Pulley                                            |

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                     |
|---------|----------|----------|------------------------------------------------------|
| 7       | 191-0688 | 1        | Alternator (24 Volt DC, 35 Amp) (Includes Regulator) |
| 8       | 191-1635 | 1        | Regulator                                            |
| 9       | 511-0119 | 1        | Belt (5 Rib)                                         |
| 10      | 191-1376 | 1        | Bracket, Mounting                                    |
| 11      | 800-0092 | 2        | Screw, Cap - Hex Head (1/2-13 x 1-1/2")              |

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**Alternator - (75 Amp)  
(DFEB, DFFA, DFFB - Spec E)**



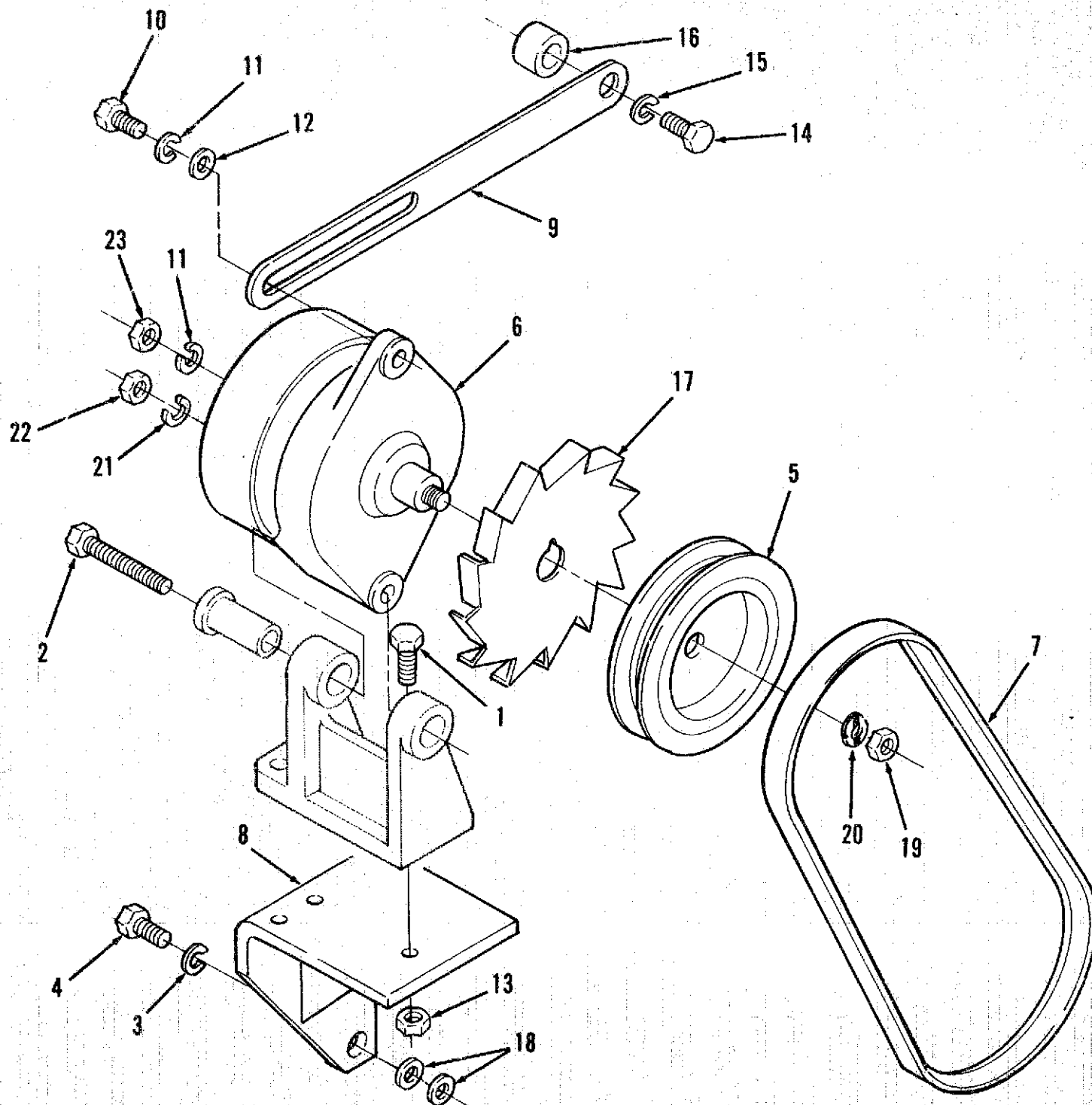
933A

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                        |
|---------|----------|----------|-----------------------------------------|
| 1       | 800-0236 | 1        | Screw, Cap - Hex Head (1/2-13 x 1-3/4") |
| 2       | 800-0215 | 1        | Screw, Cap - Hex Head (1/2-13 x 1-1/2") |
| 3       | 800-0237 | 1        | Screw, Cap - Hex Head (1/2-20 x 6-1/2") |

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                |
|---------|-------------|----------|---------------------------------|
| 4       | 526-0353    | 2        | Washer, Flat (1/2")             |
| 5       | 870-0452    | 1        | Nut, Locking - Hex (1/2-20)     |
| 6       | 850-0060    | 2        | Washer, Lock - Spring (1/2")    |
| 7       | 191-1926-02 | 1        | Alternator (24 Volt DC, 75 Amp) |
| 8       | 511-0161    | 1        | Belt (5 Rib)                    |



**Alternator - 45 Amp**  
**(DFEB, DFFA, DFFB - Spec F)**  
**(DFEC - Spec A)**

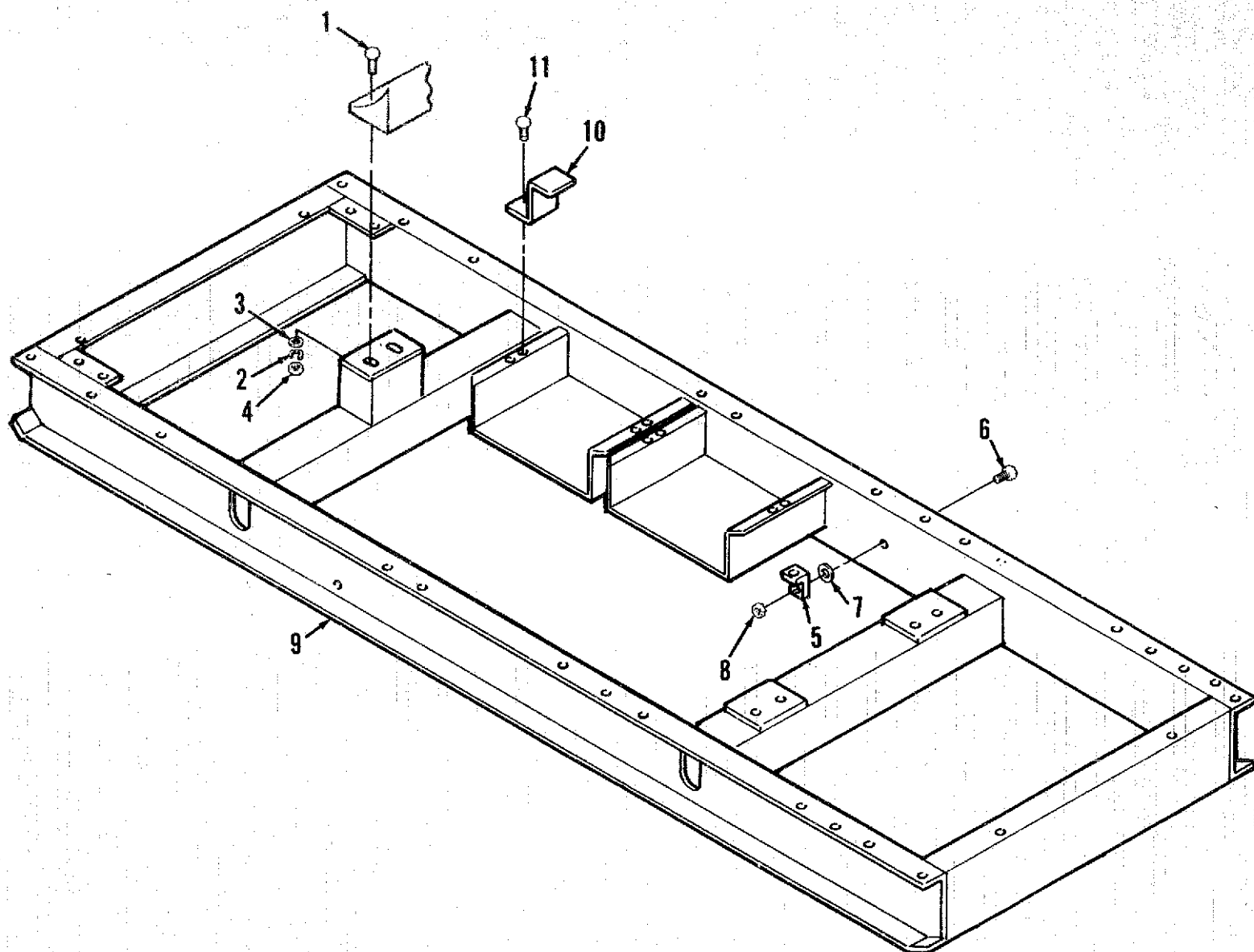


942A

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                    |
|---------|-------------|----------|-----------------------------------------------------|
| 1       | 821-0022    | 3        | Screw, Locking - Hex Washer Head (5/16-18 x 1-1/4") |
| 2       | 718-1067    | 1        | Screw, Cap - Hex Head (M10 x 90mm)                  |
| 3       | 850-0060    | 2        | Washer, Lock - Spring (1/2")                        |
| 4       | 800-0092    | 2        | Screw, Cap - Hex Head (1/2-13 x 1-1/2")             |
| 5       | 191-1984    | 1        | Pulley                                              |
| 6       | 191-1983-02 | 1        | Alternator (24 Volt DC, 45 Amp)                     |
| 7       | 511-0161-05 | 1        | Belt (5 Rib)                                        |
| 8       | 191-1987    | 1        | Bracket, Mounting                                   |
| 9       | 191-1977    | 1        | Bracket, Adjusting                                  |
| 10      | 800-2059    | 1        | Screw, Cap - Hex Head (M8 x 30mm)                   |
| 11      | 850-2008    | 2        | Washer, Lock - Spring (M8)                          |

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                     |
|---------|-------------|----------|------------------------------------------------------|
| 12      | 526-0030    | 1        | Washer, Flat (3/8")                                  |
| 13      | 870-0257    | 3        | Nut, Locking - Hex (5/16")                           |
| 14      | 800-0075    | 1        | Screw, Cap - Hex Head (7/16-14 x 2")                 |
| 15      | 850-0055    | 1        | Washer, Lock - Spring (7/16")                        |
| 16      |             |          | Spacer                                               |
|         | 191-1888    | 1        | 5/8" Long                                            |
|         | 191-1888-01 | 1        | 13/16" Long                                          |
| 17      | 191-1981    | 1        | Fan                                                  |
| 18      | 526-0353    | 2        | Washer, Flat - Special (9/16" ID x 1" OD x 1/8" Thk) |
| 19      | 870-2161    | 1        | Nut, Hex (M16)                                       |
| 20      | 851-0039    | 1        | Washer, Spring - Special                             |
| 21      | 850-2005    | 2        | Washer, Lock - Spring (M5)                           |
| 22      | 860-2006    | 2        | Nut, Hex (M5)                                        |
| 23      | 860-2008    | 1        | Nut, Hex (M8)                                        |

# Skid

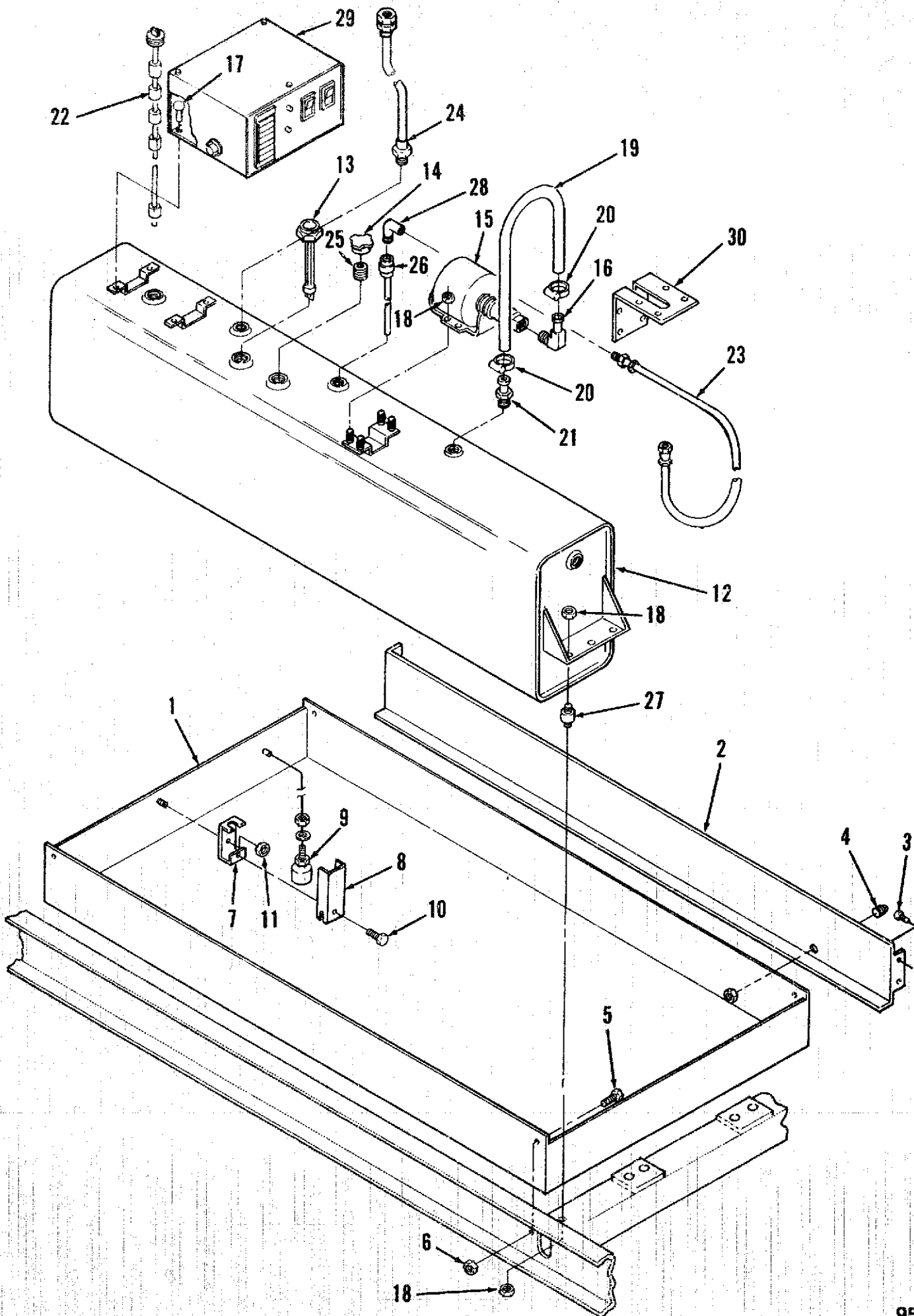


934A

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                        |
|---------|----------|----------|-----------------------------------------|
| 1       | 800-0157 | 2        | Screw, Cap - Hex Head (3/4-10 x 2-1/2") |
| 2       | 850-0079 | 2        | Washer, Lock - Spring (3/4")            |
| 3       | 526-0238 | 2        | Washer, Flat (3/4")                     |
| 4       | 862-0008 | 2        | Nut, Hex (3/4-10)                       |
| 5       | 332-1473 | 1        | Lug, Solderless                         |
| 6       | 800-0026 | 1        | Screw, Cap - Hex Head (5/16-18 x 3/4")  |

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                      |
|---------|----------|----------|---------------------------------------|
| 7       | 856-0008 | 1        | Washer, Lock - EIT (5/16")            |
| 8       | 870-0257 | 1        | Nut, Locking - Hex Head (5/16-18)     |
| 9       | 403-2985 | 1        | Skid                                  |
| 10      | 416-0850 | 4        | Bracket, Battery                      |
| 11      | 800-0048 | 4        | Screw, Cap - Hex Head (3/8-16 x 3/4") |

# Day Tank and Rupture Basin



954C

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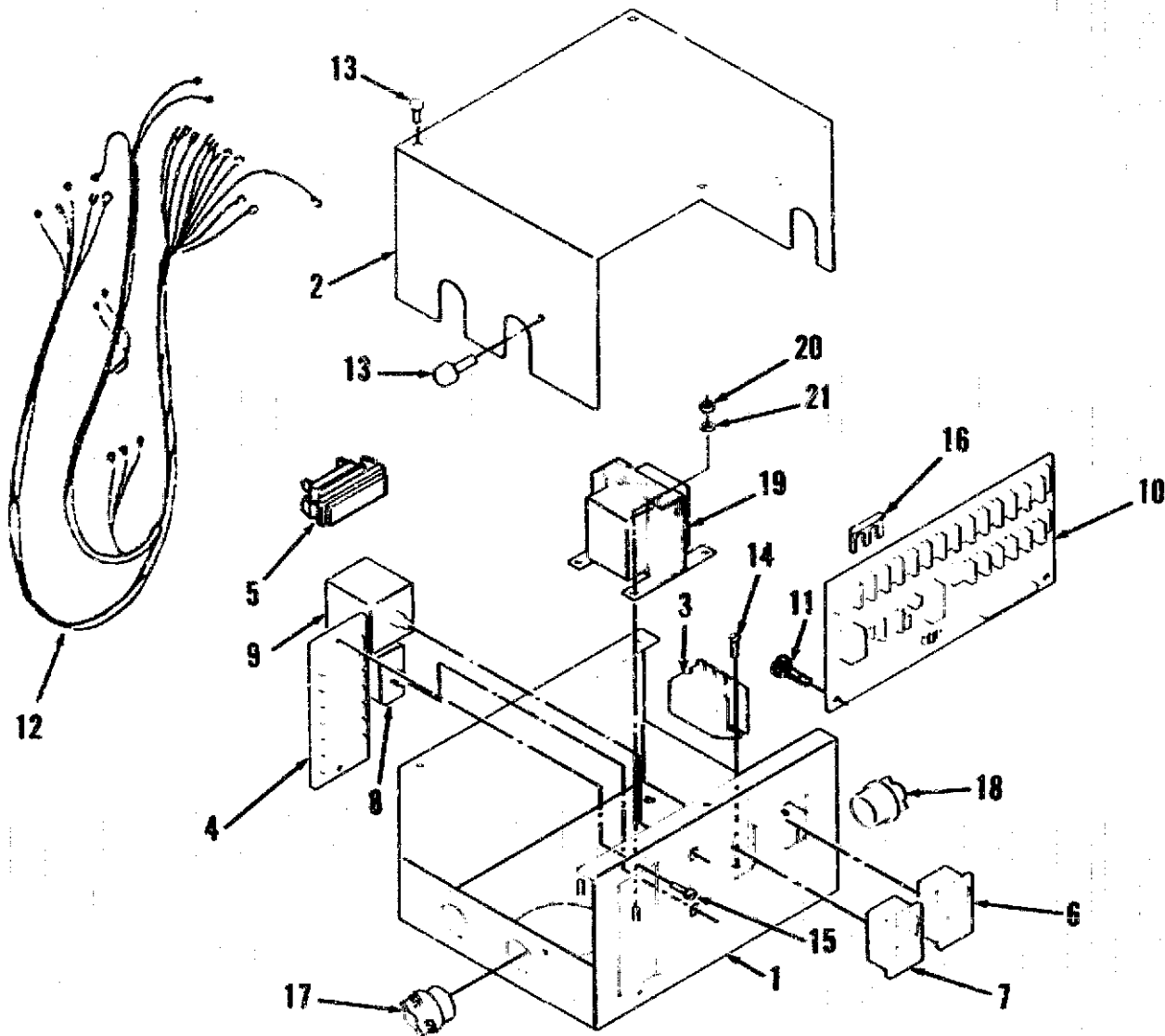
## Day Tank and Rupture Basin

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                   |
|---------|-------------|----------|----------------------------------------------------|
| 1       | 159-1231    | 1        | *Basin, Rupture                                    |
| 2       | 159-1232    | 1        | *Bracket, Mounting                                 |
| 3       | 815-0236    | 4        | *Screw, Thread Forming - Hex Head (5/16-18 x 5/8") |
| 4       | 505-0055    | 1        | *Plug, Pipe - Square Head (1/4")                   |
| 5       | 821-0016    | 4        | *Screw, Locking - Hex Washer Head (5/16-18 x 3/4") |
| 6       | 870-0257    | 4        | *Nut, Locking - Hex Head (5/16")                   |
| 7       | 319-0490    | 1        | *Bracket, Switch                                   |
| 8       | 319-0489    | 1        | *Cover, Switch                                     |
| 9       | 308-0916    | 1        | *Switch, Basin                                     |
| 10      | 821-0010    | 1        | *Screw, Locking - Hex Washer Head (1/4-20 x 1/2")  |
| 11      | 870-0212    | 1        | *Nut, Locking - Hex Head (1/4-20)                  |
| 12      | 415-0616    | 1        | Tank, Day (46 Gallon)                              |
| 13      | 415-0565-02 | 1        | Gauge, Level - Liquid                              |
| 14      | 159-1208    | 1        | Cap, Day Tank                                      |
| 15      | 399-0117    | 1        | Pump (P103)                                        |
| 16      | 502-0942    | 1        | Elbow, Hose - 90° (5/8" ID Hose x 3/8" Pipe)       |
| 17      | 821-0018    | 4        | Screw, Locking - Hex Washer Head (1/4-20 x 5/8")   |

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                               |
|---------|-------------|----------|----------------------------------------------------------------|
| 18      | 870-0212    | 16       | Nut, Locking - Hex Head (1/4-20)                               |
| 19      | 503-1860-01 | 1        | Hose, Fuel - Pump to Tank (5/8" ID x 12")                      |
| 20      | 503-0183    | 2        | Clamp, Hose                                                    |
| 21      | 502-0943    | 1        | Connector, Hose                                                |
| 22      | 308-0913    | 1        | Switch - 5 Float                                               |
| 23      | 501-0084    | 1        | Line, Fuel - Flexible (Fuel Supply) (36")                      |
| 24      | 501-0552    | 1        | Line, Fuel - Flexible (Fuel Return) (27")                      |
| 25      | 505-0172    | 1        | Nipple, Close (2")                                             |
| 26      | 415-0566-02 | 1        | Pipe, Suction                                                  |
| 27      | 402-0610    | 6        | Isolator, Vibration                                            |
| 28      | 505-0050    | 1        | Elbow, Street - 90° (1/2")                                     |
| 29      | -           | 1        | Control Assembly - Day Tank (See Separate Page for Components) |
| 30      | 149-2275    | 1        | Bracket, Mounting - Fuel Filter                                |

\* - Not Used on All Models.

# Day Tank Control

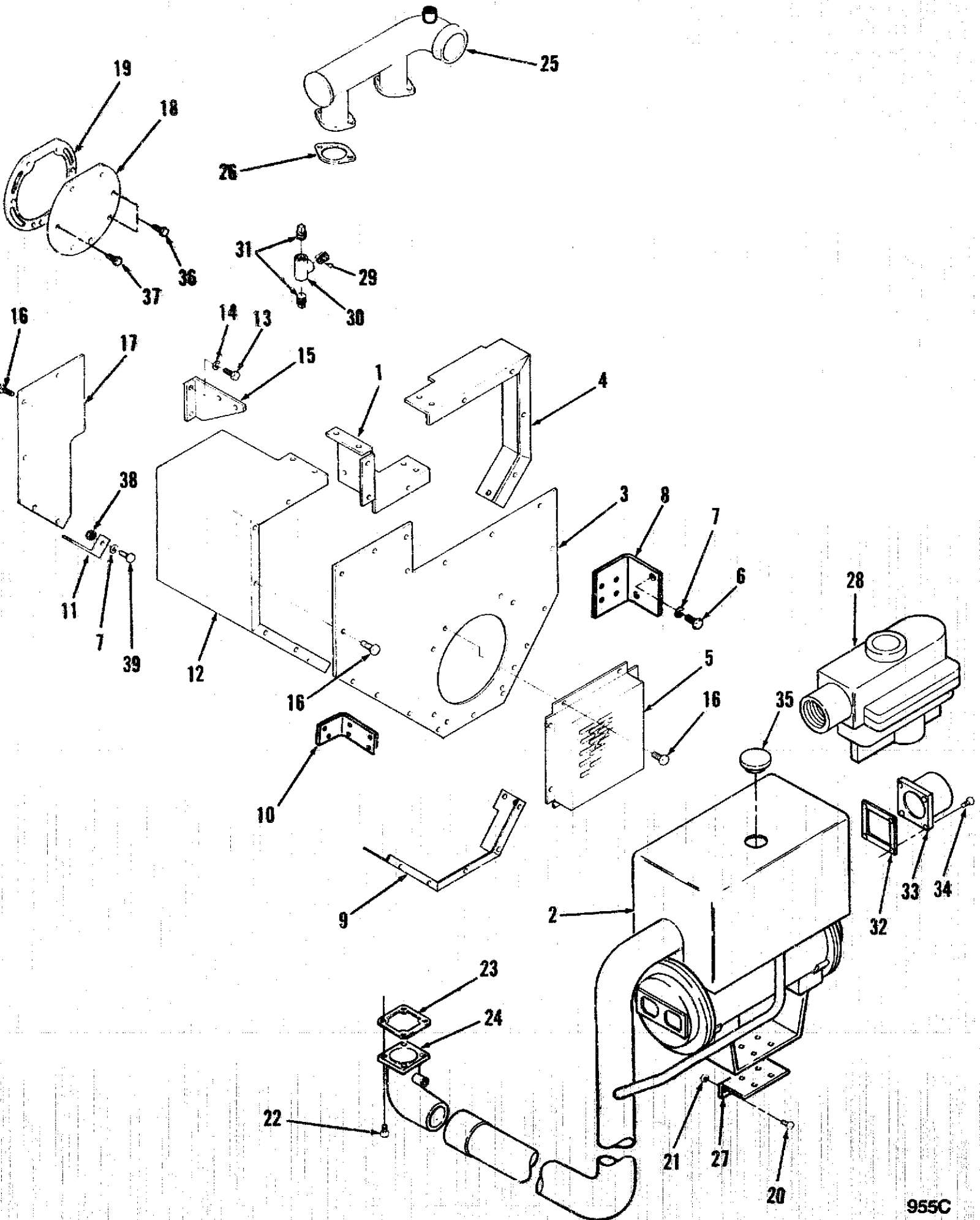


| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                                                             | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                                       |
|---------|-------------|----------|----------------------------------------------------------------------------------------------|---------|-------------|----------|------------------------------------------------------------------------|
| 1       | 319-0486    | 1        | Box, Control                                                                                 | 14      | 812-0075    | 2        | Screw, Machine - Round Head (#8-32 x 1/4")                             |
| 2       | 319-0485    | 1        | Cover, Box - Control                                                                         | 15      | 815-0385    | 2        | Screw, Machine - Round Head (#6-32 x 1/2")                             |
| 3       | 307-2677-02 | 1        | Relay, Pump (K130)                                                                           | 16      | 332-2605    | 2        | Jumper, Terminal                                                       |
| 4       | 322-0403-02 | 1        | Light Assembly, Indicator - Seven Light (Includes Wiring Harness)                            | 17      | 331-0027    | 2        | Connector, Romex                                                       |
| 5       | 322-0369-02 | 1        | Lamp, Indicator - Replacement                                                                | 18      | 331-0042    | 1        | Connector, Knockout                                                    |
| 6       | 308-0912    | 1        | Switch, Rocker - On/Off/Emergency Run (S102)                                                 | 19      | 315-0686    | 1        | *Transformer (Does Not Include Primary and Secondary Harnesses) (T105) |
| 7       | 308-0852    | 1        | Switch, Rocker - Test/Reset (S111)                                                           |         | 338-2403    | 1        | Harness, Wiring - Primary (10") T105H1, H4 to TB1-5, (TB1-9)           |
| 8       | 320-1653    | 1        | Breaker, Circuit - DC (CB107)                                                                |         | 338-2404    | 1        | Harness, Wiring - Secondary (6") T105x1, X2 to P4)                     |
| 9       | 320-1654    | 1        | Breaker, Circuit - AC (CB101)                                                                |         | 323-1302    | 2        | Pin, Contact                                                           |
| 10      | 300-3464    | 1        | Board, Circuit - Printed                                                                     |         | 323-1374-04 | 1        | Housing, Connector (4 Place) (P4)                                      |
| 11      | 870-0458    | 4        | Spacer, Board - Printed Circuit                                                              | 20      | 870-0221    | 4        | *Nut, Hex - With ET (*8-32)                                            |
| 12      |             |          | Harness, Wiring                                                                              | 21      | 526-0003    | 4        | *Washer, Flat (#8)                                                     |
|         | 338-2382    | 1        | Control Box                                                                                  |         |             |          |                                                                        |
|         | 338-2511    | 1        | Printed Circuit Board TB1-19, 20 to S1 and Grd (Controls Without Transformer) (2 Wire, 100") |         |             |          |                                                                        |
|         |             |          | Control to Day Tank Pump (5 Wire, 40")                                                       |         |             |          |                                                                        |
|         | 338-2397    | 1        |                                                                                              |         |             |          |                                                                        |
| 13      | 815-0350    | 5        | Screw, Self-Tapping - Slotted Hex Washer Head (#10-32 x 3/8")                                |         |             |          |                                                                        |

\* - Not Used on All Models.



# Heat Exchanger



955C

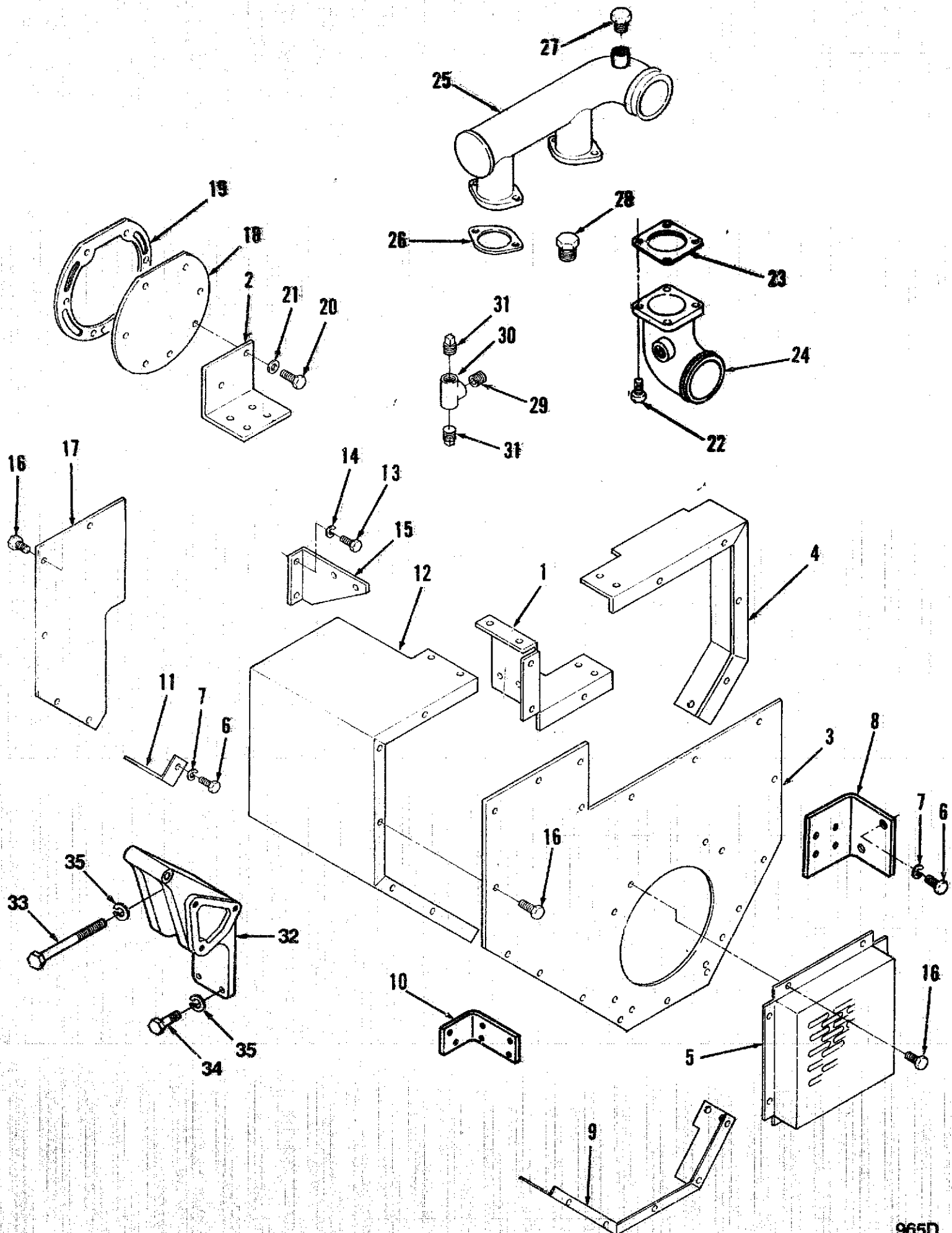


## Heat Exchanger

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                                                                                      | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                                              |
|---------|----------|----------|-----------------------------------------------------------------------------------------------------------------------|---------|----------|----------|-------------------------------------------------------------------------------|
| 1       | 130-3729 | 1        | Guard, Belt                                                                                                           | 24      | -        | 1        | Connection, Inlet - Water - Available from Cummins as part number 3014212     |
| 2       | -        | 1        | Exchanger, Heat (Includes Cap) Assembly and component parts are available from Cummins as modification number HX 4073 | 25      | -        | 1        | *Connection, Transfer - Water - Available from Cummins as part number 3008862 |
| 3       | 130-3733 | 1        | Cover, Guard - Belt                                                                                                   | 26      | -        | 2        | *Gasket - Available from Cummins as part number 3060912                       |
| 4       | 130-3730 | 1        | Guard, Belt                                                                                                           | 27      | 130-3736 | 1        | Bracket, Guard - Belt                                                         |
| 5       | 130-3734 | 1        | Cover, Guard - Belt                                                                                                   | 28      | 309-0180 | 1        | Regulator, Water - Thermostat (Not Used on All Models)                        |
| 6       | 800-0090 | 2        | Screw, Cap - Hex Head (1/2-13 x 1")                                                                                   | 29      | 505-0084 | 1        | Nipple, Pipe (3/4" ID x 2-1/2")                                               |
| 7       | 850-0060 | 3        | Washer, Lock - Spring (1/2")                                                                                          | 30      | 505-0166 | 1        | Tee, Pipe (3/4")                                                              |
| 8       | 130-3737 | 1        | Bracket, Guard - Belt                                                                                                 | 31      | 505-0130 | 2        | Plug, Pipe - Square Head (3/4-14)                                             |
| 9       | 130-3731 | 1        | Guard, Belt                                                                                                           | 32      | -        | 2        | Gasket - Available from Cummins as part number 3055769                        |
| 10      | 130-3738 | 1        | Bracket, Guard - Belt                                                                                                 | 33      | -        | 2        | Connection, Water - Available from Cummins as part number 3200882             |
| 11      | 130-3739 | 1        | Bracket, Guard - Belt                                                                                                 | 34      | 815-0713 | 8        | Screw, Locking - Hex Washer Head (3/8-16 x 1-1/4")                            |
| 12      | 130-3732 | 1        | Guard, Belt                                                                                                           | 35      | -        | 1        | Cap, Filler - Available from Cummins as part number 11966                     |
| 13      | 800-0071 | 2        | Screw, Cap - Hex Head (7/16-14 x 1")                                                                                  | 36      | 800-0052 | 2        | Screw, Cap - Hex Head (3/8-16 x 1-1/2")                                       |
| 14      | 850-0055 | 2        | Washer, Lock - Spring (7/16")                                                                                         | 37      | 800-0065 | 5        | Screw, Cap - Hex Head (3/8-16 x 4-3/4")                                       |
| 15      | 130-3740 | 1        | Bracket, Guard - Belt                                                                                                 | 38      | 862-0035 | 1        | Nut, Hex (1/2-13)                                                             |
| 16      | 821-0010 | 48       | Screw, Locking - Hex Washer Head (1/4-20 x 1/2")                                                                      | 39      | 800-0229 | 1        | Screw, Cap - Hex Head (1/2-13 x 2-1/2")                                       |
| 17      | 130-3735 | 1        | Cover, Guard - Belt                                                                                                   |         |          |          |                                                                               |
| 18      | -        | 1        | *Plate, Hub - Fan - Available from Cummins as part number 3200763                                                     |         |          |          |                                                                               |
| 19      | -        | 1        | *Gasket, Hub - Fan - Available from Cummins as part number 3042612                                                    |         |          |          |                                                                               |
| 20      | 821-0030 | 2        | Screw, Locking - Hex Washer Head (3/8-16 x 1")                                                                        |         |          |          |                                                                               |
| 21      | 870-0281 | 2        | Nut, Locking - Hex Head (3/8-16)                                                                                      |         |          |          |                                                                               |
| 22      | 815-0695 | 4        | Screw, Locking - Hex Washer Head (3/8-16 x 1")                                                                        |         |          |          |                                                                               |
| 23      | 130-3162 | 1        | Gasket (Also available from Cummins as part number 205288)                                                            |         |          |          |                                                                               |

\* - Parts Used with Dry Manifold.

# Remote Radiator



965D

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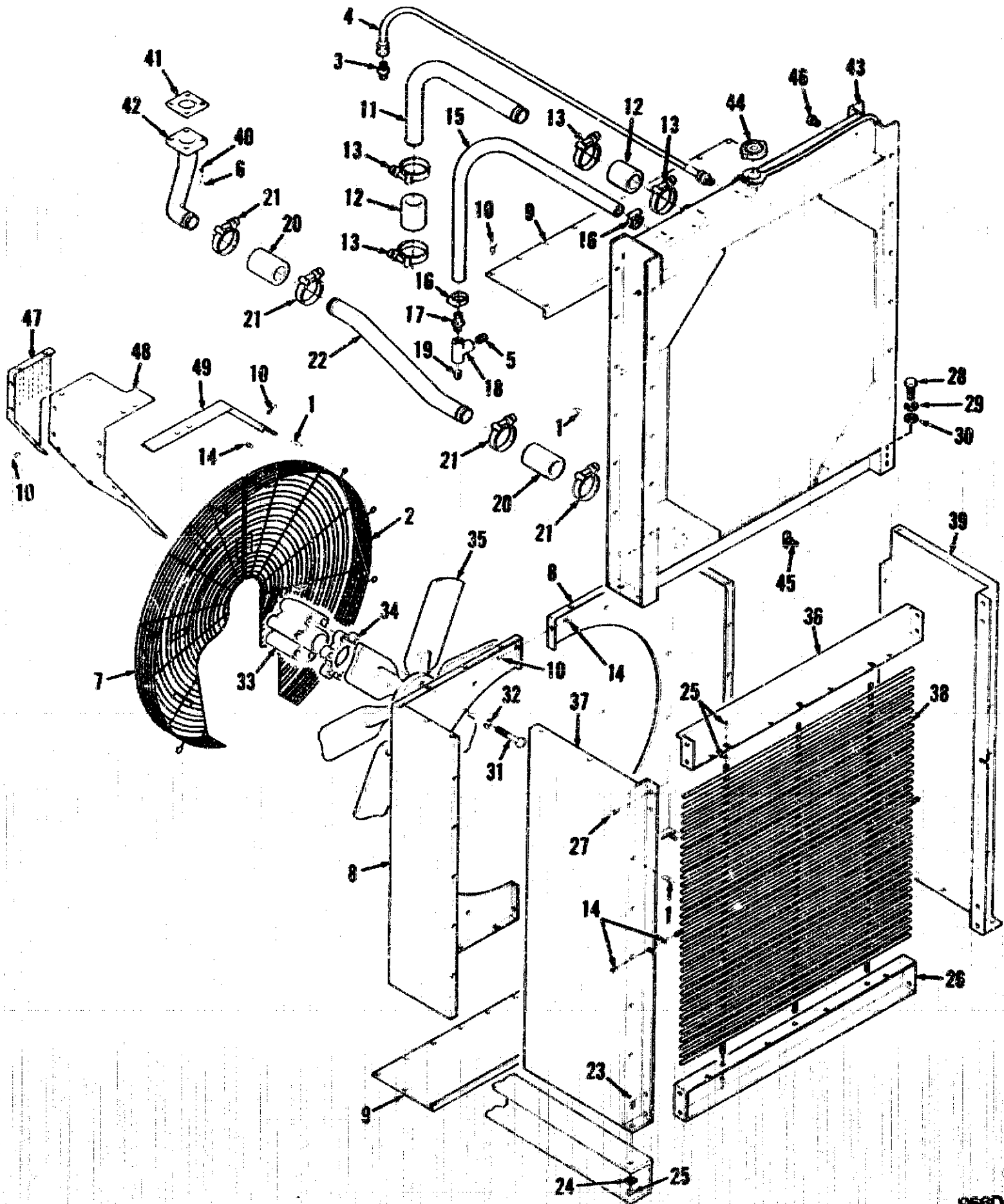
# Remote Radiator

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                                   | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                                              |
|---------|----------|----------|--------------------------------------------------------------------|---------|----------|----------|-------------------------------------------------------------------------------|
| 1       | 130-3729 | 1        | Guard, Belt                                                        | 22      | 815-0695 | 4        | Screw, Locking - Hex Washer Head (3/8-16 x 1")                                |
| 2       | 130-3744 | 1        | Bracket, Guard - Belt                                              | 23      | 130-3162 | 1        | Gasket (Also Available from Cummins as part number 205288)                    |
| 3       | 130-3733 | 1        | Cover, Guard - Belt                                                | 24      | -        | 1        | Connection, Inlet - Water - Available from Cummins as part number 3014212     |
| 4       | 130-3730 | 1        | Guard, Belt                                                        | 25      | -        | 1        | *Connection, Transfer - Water - Available from Cummins as part number 3008862 |
| 5       | 130-3734 | 1        | Cover, Guard - Belt                                                | 26      | -        | 2        | *Gasket - Available from Cummins as part number 3060912                       |
| 6       | 800-0090 | 3        | Screw, Cap - Hex Head (1/2-13 x 1")                                | 27      | 504-0003 | 1        | Cock, Drain (1/8")                                                            |
| 7       | 850-0060 | 3        | Washer, Lock - Spring (1/2")                                       | 28      | 505-1414 | 1        | Plug, Pipe                                                                    |
| 8       | 130-3737 | 1        | Bracket, Guard - Belt                                              | 29      | 505-0084 | 1        | Nipple, Pipe (3/4" ID x 2-1/2")                                               |
| 9       | 130-3731 | 1        | Guard, Belt                                                        | 30      | 505-0166 | 1        | Tee, Pipe (3/4")                                                              |
| 10      | 130-3738 | 1        | Bracket, Guard - Belt                                              | 31      | 505-0130 | 2        | Plug, Pipe - Square Head (3/4-14)                                             |
| 11      | 130-3739 | 1        | Bracket, Guard - Belt                                              | 32      | -        | 1        | #Support, Alternator - Available from Cummins as P/N 3041859                  |
| 12      | 130-3732 | 1        | Guard, Belt                                                        | 33      | 800-0051 | 2        | #Screw, Cap - Hex Head (3/8-16 x 3-3/4")                                      |
| 13      | 800-0071 | 2        | Screw, Cap - Hex Head (7/16-14 x 1")                               | 34      | 800-0050 | 2        | #Screw, Cap - Hex Head (3/8-16 x 1")                                          |
| 14      | 850-0055 | 2        | Washer, Lock - Spring (7/16")                                      | 35      | 850-0050 | 4        | #Washer, Lock - Spring (3/8")                                                 |
| 15      | 130-3740 | 1        | Bracket, Guard - Belt                                              |         |          |          |                                                                               |
| 16      | 821-0010 | 48       | Screw, Locking - Hex Washer Head (1/4-20 x 1/2")                   |         |          |          |                                                                               |
| 17      | 130-3735 | 1        | Cover, Guard - Belt                                                |         |          |          |                                                                               |
| 18      | -        | 1        | *Plate, Hub - Fan - Available from Cummins as part number 3200763  |         |          |          |                                                                               |
| 19      | -        | 1        | *Gasket, Hub - Fan - Available from Cummins as part number 3042612 |         |          |          |                                                                               |
| 20      | -        | -        | *Screw, Cap - Hex Head 3/8-16 x 4"                                 |         |          |          |                                                                               |
|         | 800-0062 | 5        | 3/8-16 x 4"                                                        |         |          |          |                                                                               |
|         | 800-0051 | 2        | 3/8-16 x 1-1/4"                                                    |         |          |          |                                                                               |
| 21      | 526-0174 | 7        | *Washer, Flat (3/8")                                               |         |          |          |                                                                               |

\* - Parts Used with Dry Manifold.

# - Parts Used with Wet Manifold.

# Radiator



968D

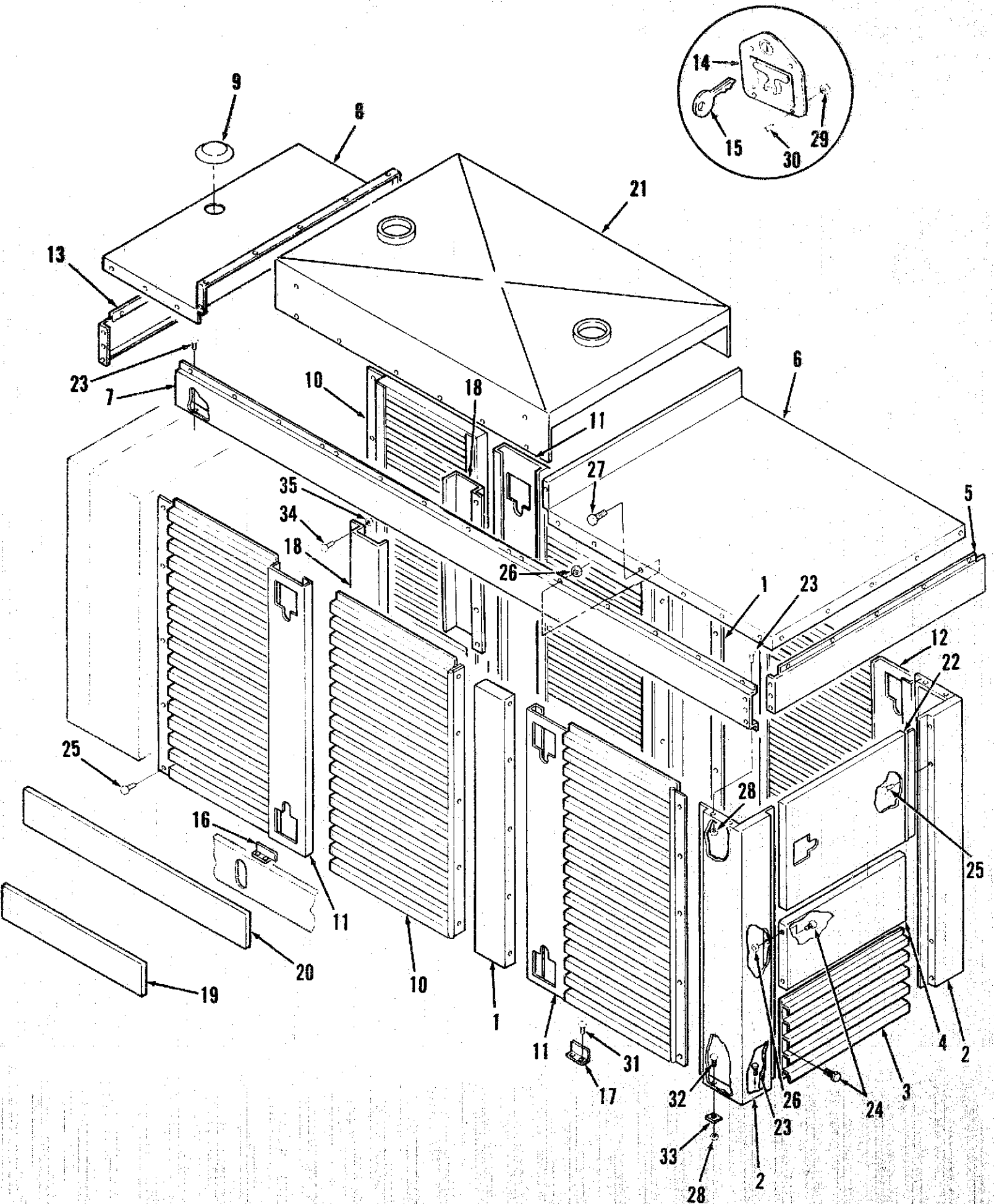
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# Radiator

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                   | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                                   |
|---------|-------------|----------|----------------------------------------------------|---------|-------------|----------|--------------------------------------------------------------------|
| 1       | 821-0029    | 42       | Screw, Locking - Hex Washer Head (3/8-16 x 3/4")   | 26      | 130-3596    | 1        | Support, Grille - Lower                                            |
| 2       | 130-3589-01 | 1        | Guard, Fan - Right Side                            | 27      | 821-0014    | 8        | Screw, Locking - Hex Washer Head (5/16-18 x 1/2")                  |
| 3       | 502-0184    | 1        | Connector, Male (1/4")                             | 28      | 800-0133    | 4        | Screw, Cap - Hex Head (5/8-11 x 1-3/4")                            |
| 4       | 501-0554    | 1        | Line, Flexible (47")                               | 29      | 850-0070    | 4        | Washer, Lock - Spring (5/8")                                       |
| 5       | 505-0084    | 1        | Nipple, Pipe (3/4" x 2-1/2")                       | 30      | 526-0112    | 4        | Washer, Flat (5/8")                                                |
| 6       | 800-0051    | 4        | Screw, Cap - Hex Head (3/8-16 x 1-1/4")            | 31      | 800-0106    | 6        | Screw, Cap - Hex Head (1/2-13 x 5-1/2")                            |
| 7       | 130-3589-02 | 1        | Guard, Fan - Left Side                             | 32      | 850-0060    | 6        | Washer, Lock - Spring (1/2")                                       |
| 8       | 130-3591    | 2        | Wrapper, Fan                                       | 33      | -           | 1        | Spacer, Fan - Pilot - Available from Cummins as part number 219126 |
| 9       | 130-3594    | 2        | Shroud, Fan                                        | 34      | -           | 1        | Spacer, Fan - Available from Cummins as part number 219127         |
| 10      | 821-0018    | 46       | Screw, Locking - Hex Washer Head (1/4-20 x 5/8")   | 35      | -           | 1        | Fan, 8 Blade - Available from Cummins as part number 3037710       |
| 11      | 130-3593    | 2        | Tube, Radiator - Inlet                             | 36      | 130-3595    | 1        | Support, Grille - Upper                                            |
| 12      | 503-1708    | 4        | Hose, Radiator (2-1/2" ID x 4")                    | 37      | 130-3592-02 | 1        | Guard, Radiator - Left Side                                        |
| 13      | 503-0867    | 8        | Clamp, Hose (T-Bolt) (3" ID)                       | 38      | 130-3597    | 1        | Grille                                                             |
| 14      | 870-0212    | 6        | Nut, Locking - Hex Head (1/4-20)                   | 39      | 130-3592-01 | 1        | Guard, Radiator - Right Side                                       |
| 15      | 503-0924    | 1        | Hose (1" ID x 60")                                 | 40      | 850-0050    | 4        | Washer, Lock - Spring (3/8")                                       |
| 16      | 503-0398    | 2        | Clamp, Hose                                        | 41      | 130-3162    | 1        | Gasket (Also available from Cummins as part number 205288)         |
| 17      | 502-0971    | 1        | Connector, Hose                                    | 42      | 130-1030    | 1        | Inlet, Water                                                       |
| 18      | 505-0166    | 1        | Tee, Pipe (3/4")                                   | 43      | 130-3587    | 1        | Radiator (Includes Cap)                                            |
| 19      | 505-0130    | 1        | Plug, Pipe - Square Head (3/4-14)                  | 44      | 130-3588    | 1        | Cap, Pressure                                                      |
| 20      | 503-0856    | 2        | Hose, Radiator (3-1/2" ID x 5-1/2")                | 45      | 504-0028    | 1        | Cock, Drain (3/8-18)                                               |
| 21      | 503-0885    | 4        | Clamp, Hose (T-Bolt) (4" ID)                       | 46      | 502-0153    | 2        | Plug, Pipe - Hex (1/4-18)                                          |
| 22      | 130-3598    | 1        | Tube, Radiator - Outlet                            | 47      | 130-3601    | 1        | Guard, Belt                                                        |
| 23      | 821-0035    | 6        | Screw, Locking - Hex Washer Head (3/8-16 x 1-1/4") | 48      | 130-3600    | 1        | Guard, Belt                                                        |
| 24      | 526-0280    | 6        | Washer, Bevel                                      | 49      | 130-3720    | 1        | Guard, Belt                                                        |
| 25      | 870-0281    | 18       | Nut, Locking - Hex Head (3/8-16)                   |         |             |          |                                                                    |



# Housing

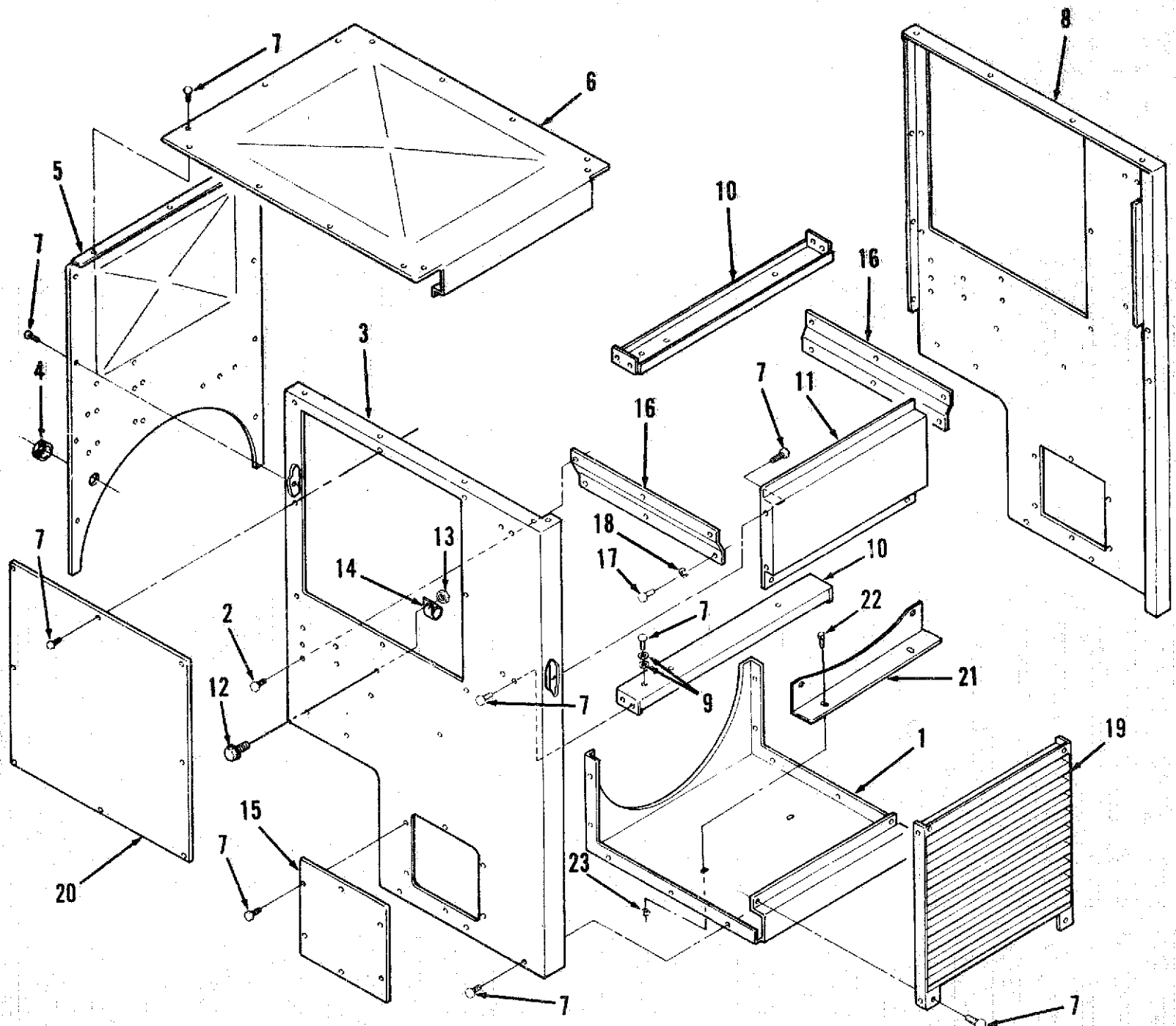


962C

## Housing

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                                                                            | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                            |
|---------|-------------|----------|-------------------------------------------------------------------------------------------------------------|---------|-------------|----------|-------------------------------------------------------------|
| 1       | 405-4202    | 2        | Post - Center                                                                                               | 21      |             |          | Roof - Center                                               |
| 2       | 405-4203    | 2        | Post - Rear                                                                                                 |         | 405-4199-01 | 1        | DFEB, KTA12                                                 |
| 3       | 405-4104    | 1        | Grille                                                                                                      |         | 405-4199-02 | 1        | DFFA, DFFB, KTT11, KTT12                                    |
| 4       | 405-4214    | 1        | Panel - Rear                                                                                                | 22      | 405-4205    | 1        | Door, Control                                               |
| 5       | 405-4197    | 1        | Cap, End - Rear                                                                                             | 23      | 821-0029    | 16       | Screw, Locking - Hex Washer Head (3/8-16 x 3/4")            |
| 6       | 405-4200    | 1        | Roof - Rear                                                                                                 | 24      | 821-0014    | 8        | Screw, Locking - Hex Washer Head (5/16-18 x 1/2")           |
| 7       |             |          | Rail, Side                                                                                                  | 25      | 819-1102    | 33       | Screw, Machine - Pan Head - Cross Recessed (5/16-18 x 1/2") |
|         | 405-4201-02 | 1        | Left Side                                                                                                   | 26      | 870-0257    | 60       | Nut, Locking - Hex Head (5/16-18)                           |
|         | 405-4201-01 | 1        | Right Side                                                                                                  | 27      | 816-0098    | 56       | Bolt, Carriage (5/16-18 x 5/8")                             |
| 8       | 405-4198    | 1        | Roof - Front                                                                                                | 28      | 870-0281    | 18       | Nut, Locking - Hex Head (3/8-16)                            |
| 9       | 517-0245    | 1        | Plug                                                                                                        | 29      | 870-0235    | 36       | Nut, Locking - Hex Head (#8-32)                             |
| 10      | 405-4212    | 2        | Door - Side - Without Opening for Door Handles (Right Side Center Location and Left Side Front Location)    | 30      | 815-0607    | 36       | Screw, Machine - Round Head (#8-32 x 3/8")                  |
| 11      | 405-4213-01 | 3        | Door - Side - With Opening for Door Handles (Right Side Front and Rear Location, Left Side Center Location) | 31      | 815-0236    | 8        | Screw, Hex Head - Thread Forming (5/16-18 x 5/8")           |
| 12      | 405-4213-02 | 1        | Door - Side - With Opening for Door Handles (Left Side Rear Location)                                       | 32      | 821-0030    | 8        | Screw, Locking - Hex Washer Head (3/8-16 x 1")              |
| 13      | 405-4196    | 1        | Cap, End - Front                                                                                            | 33      | 526-0280    | 8        | Washer, Bevel                                               |
| 14      | 406-0626    | 9        | Handle, Door (Includes Key)                                                                                 | 34      | 821-0010    | 10       | Screw, Locking - Hex Washer Head (1/4-20 x 1/2")            |
| 15      | 406-0639    | 9        | Key                                                                                                         | 35      | 870-0212    | 10       | Nut, Locking - Hex Head (1/4-20)                            |
| 16      | 405-3980    | 2        | Stop, Door                                                                                                  |         |             |          |                                                             |
| 17      | 405-4206    | 2        | Stop, Door                                                                                                  |         |             |          |                                                             |
| 18      | 405-4289    | 2        | Bracket, Door                                                                                               |         |             |          |                                                             |
| 19      | 128-0127    | 2        | Insulation (37-1/2" x 6-1/2" x 1/4")                                                                        |         |             |          |                                                             |
| 20      | 128-0128    | 4        | Insulation (59-1/2" x 7-3/4" x 1/4")                                                                        |         |             |          |                                                             |

# Control Housing

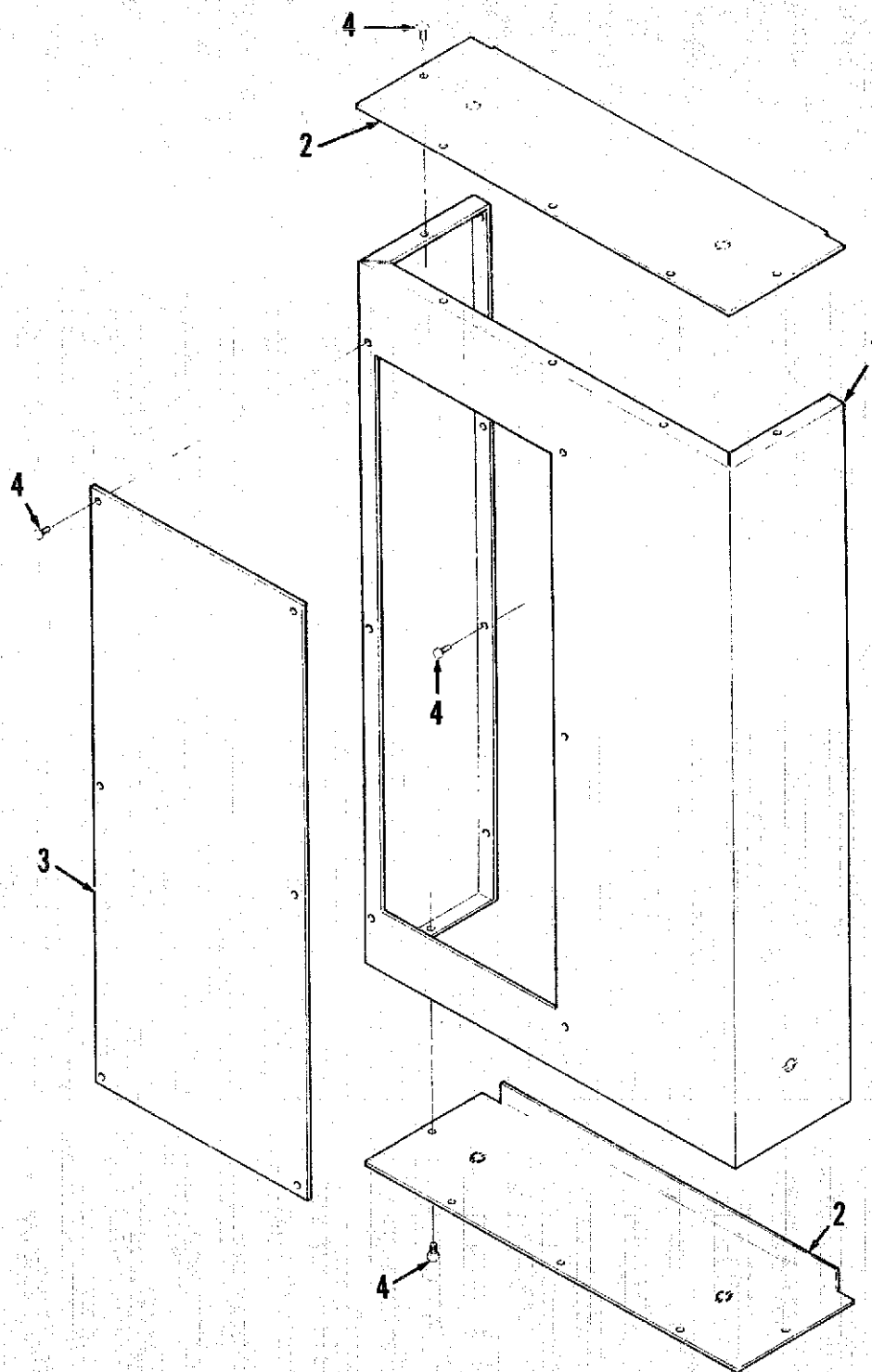


961C

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                 |
|---------|-------------|----------|--------------------------------------------------|
| 1       | 319-0740    | 1        | Panel - Bottom                                   |
| 2       | 821-0029    | 6        | Screw, Locking - Hex Washer Head (3/8-16 x 3/4") |
| 3       | 319-0739-01 | 1        | Panel - Right Side                               |
| 4       | 508-0051    | 1        | Grommet, Rubber                                  |
| 5       | 319-0741    | 1        | Panel - Front                                    |
| 6       | 301-9512    | 1        | Cover - Top                                      |
| 7       | 821-0010    | 78       | Screw, Locking - Hex Washer Head (1/4-20 x 1/2") |
| 8       | 319-0739-02 | 1        | Panel - Left Side                                |
| 9       | 856-0006    | 2        | Washer, Lock - EIT (1/4")                        |
| 10      | 301-9510    | 2        | Support - Control Box                            |
| 11      | 319-0738    | 1        | Panel - Rear                                     |
| 12      | 821-0018    | 1        | Screw, Locking - Hex Washer Head (1/4-20 x 5/8") |

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                  |
|---------|----------|----------|---------------------------------------------------|
| 13      | 870-0212 | 1        | Nut, Locking - Hex Head (1/4-20)                  |
| 14      | 332-2634 | 1        | Clamp, "J"                                        |
| 15      | 301-9629 | 2        | Cover, Side - Lower                               |
| 16      | 319-0745 | 2        | Bracket, Mounting                                 |
| 17      | 800-2111 | 6        | Screw, Cap - Hex Head (M12 x 25mm)                |
| 18      | 850-2012 | 6        | Washer, Lock - Spring (M12)                       |
| 19      | 234-0883 | 1        | Grille                                            |
| 20      | 301-9511 | 2        | Cover, Side - Upper                               |
| 21      | 319-1346 | 1        | Bracket, Panel                                    |
| 22      | 821-0016 | 2        | Screw, Locking - Hex Washer Head (5/16-18 x 3/4") |
| 23      | 870-0257 | 2        | Nut, Locking - Hex Head (5/16-18)                 |

# Entrance Box



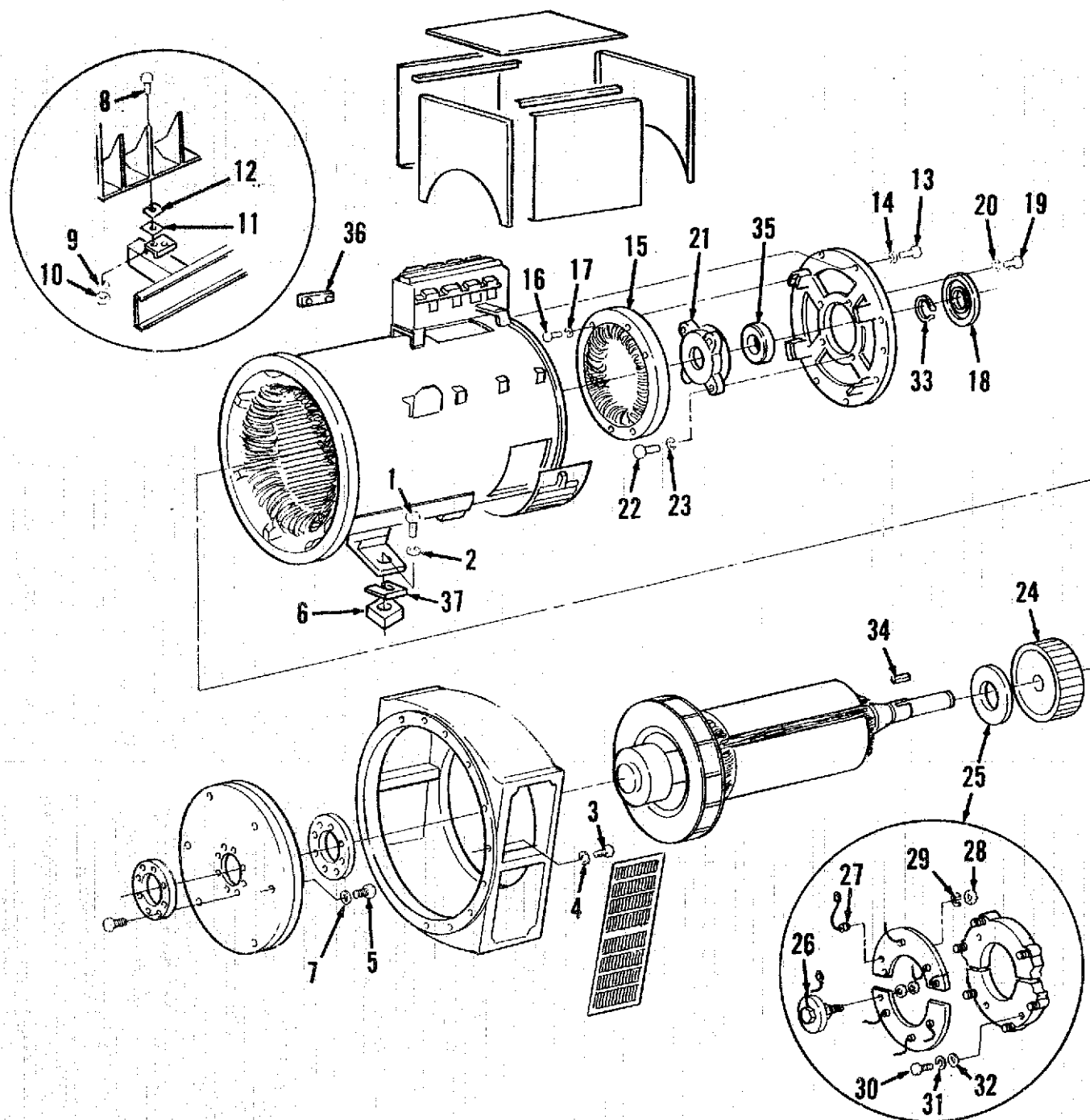
951C

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION |
|---------|----------|----------|------------------|
| 1       | 301-9655 | 1        | Box, Entrance    |
| 2       | 301-9653 | 2        | Panel            |
| 3       | 301-9698 | 1        | Cover            |

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                 |
|---------|----------|----------|--------------------------------------------------|
| 4       | 821-0010 | 22       | Screw, Locking - Hex Washer Head (1/4-20 x 1/2") |



# Generator (Newage Frame HC534, HC634)



963C



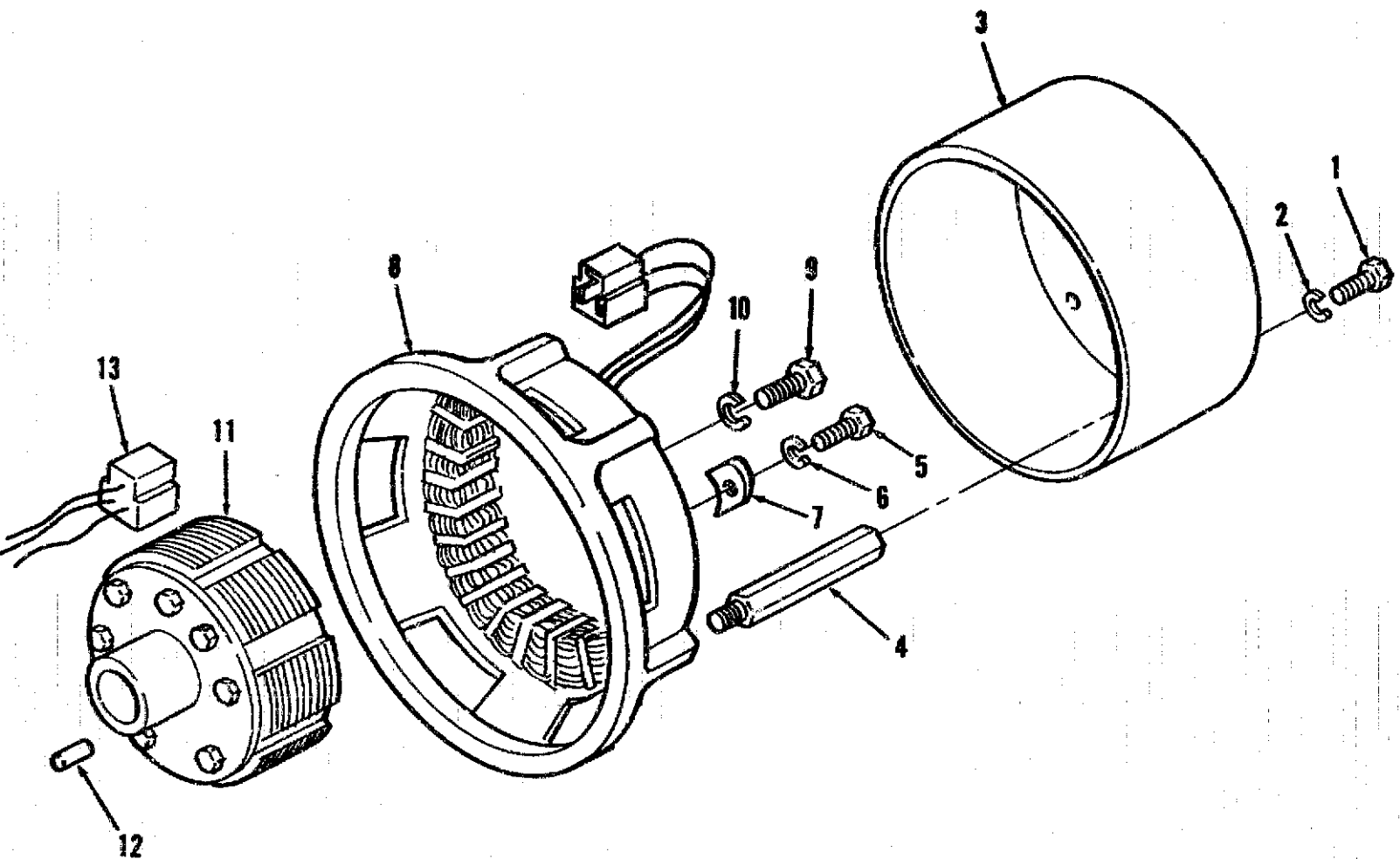
# Generator (Newage Frame HC534, HC634)

| REF NO. | ONAN PART NO. | NEWAGE PART NO. | QTY. USED | PART DESCRIPTION                                  |
|---------|---------------|-----------------|-----------|---------------------------------------------------|
| 1       | 800-0195      | -               | 2         | *Screw, Cap - Hex Head (1-8 x 4")                 |
| 2       | 850-0086      | -               | 2         | *Washer, Lock - Spring (1")                       |
| 3       |               |                 |           | Screw, Cap - Hex Head                             |
|         | 800-0092      | -               | 8         | Frame HC534                                       |
|         | 800-0094      | -               | 4         | 1/2-13 x 1-1/2"                                   |
|         | 800-0576      | -               | 16        | 1/2-13 x 2"                                       |
| 4       |               |                 |           | Frame HC634 - 1/2-13 x 1-3/4"                     |
|         | 850-0060      | -               | 12        | Washer, Lock - Spring (1/2")                      |
|         | 850-0060      | -               | 16        | Frame HC534                                       |
| 5       | 805-0033      | -               | 6         | Frame HC634                                       |
| 6       | 403-2987      | -               | 2         | Bolt, Place (5/8-11 x 1-1/8")                     |
| 7       | 526-0343      | -               | 2         | *Spacer, Mounting (1-3/4" x 4")                   |
| 8       | 800-0273      | -               | 6         | Washer, Flat (5/8")                               |
| 9       | 850-0092      | -               | 2         | #Screw, Cap - Hex Head (1-1/4-7 x 4")             |
| 10      | 862-0017      | -               | 2         | #Washer, Lock - Spring (1-1/4")                   |
| 11      | 403-2921      | -               | 4         | #Nut, Hex (1-1/4-7)                               |
| 12      |               |                 |           | #Shim (1/8" Thk) Use as required                  |
|         | 232-3552-01   | -               | 4         | #Shim (Notched) Use as required                   |
|         | 232-3552-02   | -               | 4         | 1/32" Thk                                         |
| 13      |               |                 |           | 5/64" Thk                                         |
|         | 800-2088      | 016-40920       | 8         | Screw, Cap - Hex Head                             |
|         | 800-2114      | 016-41021       | 8         | Frame HC534 (M10 x 35mm)                          |
| 14      |               |                 |           | Frame HC634 (M12 x 40mm)                          |
|         | 850-2010      | 028-31509       | 8         | Washer, Lock - Spring                             |
|         | 850-2012      | 028-31510       | 8         | Frame HC534 (M10)                                 |
| 15      |               |                 |           | Frame HC634 (M12)                                 |
|         | 220-4248      | 462-12400       | 1         | Stator, Exciter                                   |
|         | 249-0470      | 366-12500       | 1         | Frame HC534                                       |
| 16      | 800-2043      | 016-41613       | 6         | Frame HC634                                       |
| 17      | 850-2006      | 028-31507       | 6         | Screw, Cap - Hex Head (M6 x 65mm)                 |
| 18      |               |                 |           | Washer, Lock - Spring                             |
|         | 232-3519      | 458-12970       | 1         | Cap, Bearing - Outer                              |
|         | 249-0510      | 462-12930       | 1         | Frame HC534                                       |
| 19      |               |                 |           | Frame HC634                                       |
|         | 800-2091      | 016-40923       | 4         | Screw, Cap - Hex Head                             |
|         | 800-2528      | 016-40919       | 4         | Frame HC534 (M10 x 50mm)                          |
| 20      | 850-2010      | 028-31509       | 4         | Frame HC634 (M10 x 30mm)                          |
| 21      |               |                 |           | Washer, Lock - Spring (M10)                       |
|         | 232-3518      | 458-12960       | 1         | Cap, Bearing - Inner                              |
|         | 249-0509      | 462-12920       | 1         | Frame HC534                                       |
| 22      | 800-2528      | 016-40919       | 4         | Frame HC634                                       |
| 23      | 850-2010      | 028-31509       | 4         | Screw, Cap - Hex Head (M10 x 30mm)                |
| 24      |               |                 |           | Washer, Lock - Spring (M10)                       |
|         | 249-0522      | 462-23400       | 1         | Rotor, Exciter                                    |
|         | 249-0512      | 464-43300       | 1         | Frame HC534                                       |
| 25      | 357-0093      | 362-12800       | 1         | Frame HC634                                       |
| 26      | 249-0240      | 450-11760       | 1         | Rectifier Assembly (Includes Diodes and Varistor) |
| 27      |               |                 |           | Varistor                                          |
|         | 249-0239      | 364-10840       | 3         | Diode                                             |
|         | 249-0238      | 364-10850       | 3         | Forward                                           |
| 28      | 860-2006      | 027-41206       | 6         | Reverse                                           |
| 29      | 850-2006      | 028-31506       | 6         | Nut, Hex (M5)                                     |
| 30      | 800-2043      | 016-41613       | 4         | Washer, Lock - Spring (M5)                        |
| 31      | 850-2006      | 028-31507       | 4         | Screw, Cap - Hex Head (M6 x 65mm)                 |
| 32      | 526-2080      | 029-62101       | 4         | Washer, Lock - Spring (M6)                        |
| 33      |               |                 |           | Washer, Flat (M6)                                 |
|         | 518-0018      | 050-11047       | 1         | Ring, Retaining                                   |
|         | 249-0447      | 050-11011       | 1         | Frame HC534                                       |
| 34      |               |                 |           | Frame HC634                                       |
|         | 515-0300-01   | 054-10121       | 1         | Key                                               |
|         | 249-0620      | 054-10076       | 1         | Frame HC534                                       |
| 35      |               |                 |           | Frame HC634                                       |
|         | 510-0168      | 051-01036       | 1         | Bearing, Ball                                     |
|         | 249-0448      | 051-01025       | 1         | Frame HC534                                       |
| 36      | 249-0490      | -               | 3         | Frame HC634                                       |
| 37      |               |                 |           | Link, Terminal (Use as required)                  |
|         | 232-3710-01   |                 | 1         | Shim, Mounting - Generator (Use as Required)      |
|         | 232-3710-02   |                 | 1         | .0239 Thick                                       |
|         | 232-3710-03   |                 | 1         | .0747 Thick                                       |
|         |               |                 | 1         | .1196 Thick                                       |

\* - Generator Foot Mounting Hardware for Newage Frame Number HC534.  
 \* - Generator Foot Mounting Hardware for Newage Frame Number HC634.

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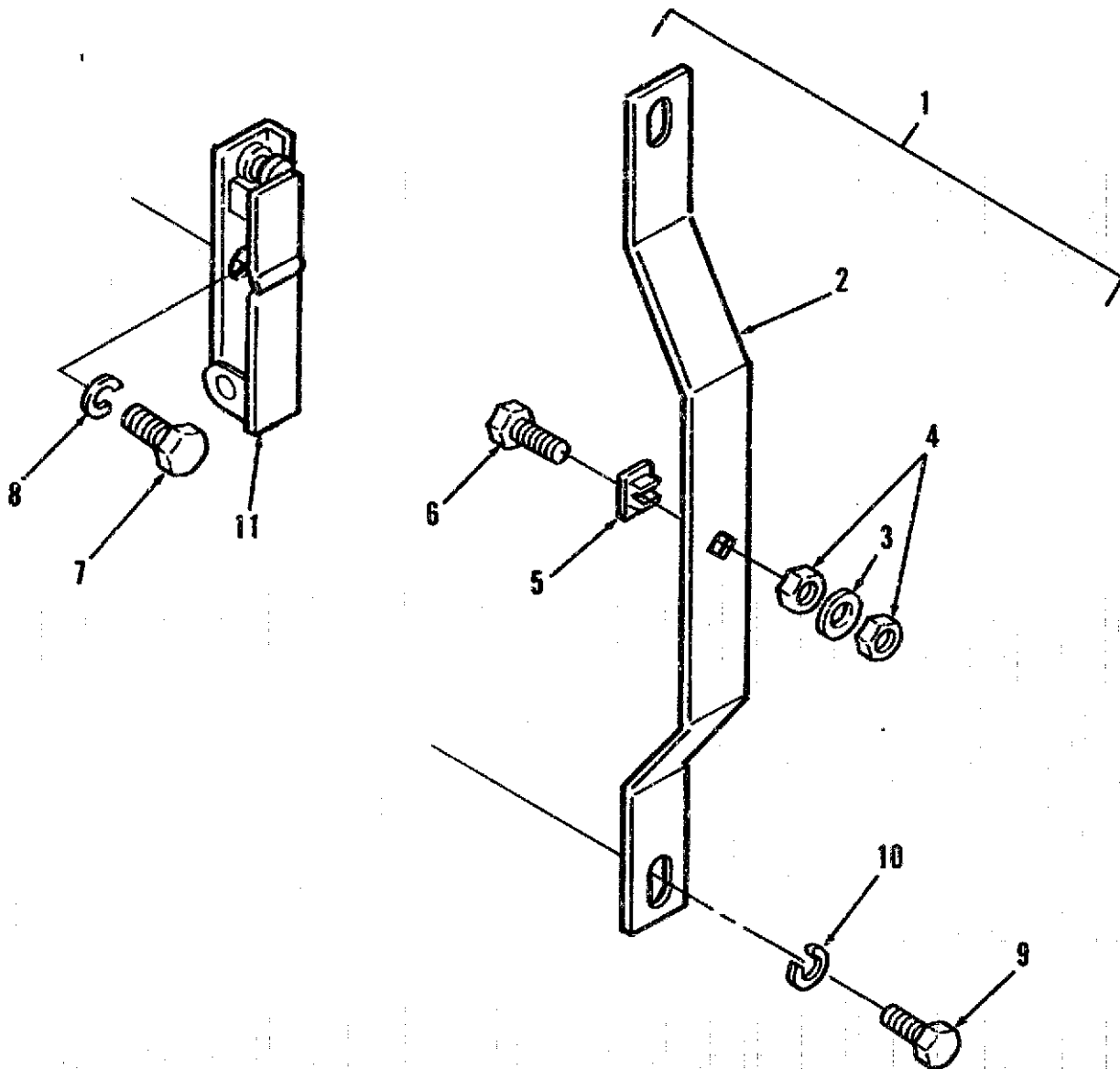
## Permanent Magnet Exciter



936A

| REF<br>NO. | ONAN<br>PART NO. | NEWAGE<br>PART NO. | QTY.<br>USED | PART<br>DESCRIPTION                                                                          |
|------------|------------------|--------------------|--------------|----------------------------------------------------------------------------------------------|
| 1          | 800-2004         | 016-40614          | 3            | Screw, Cap - Hex Head (M5 x 12mm)                                                            |
| 2          | 850-2005         | 028-31508          | 3            | Washer, Lock - Spring (M5)                                                                   |
| 3          | 234-0890         | 450-13350          | 1            | Cover                                                                                        |
| 4          | 232-3527         | 450-13340          | 3            | Spacer, Mounting - Cover                                                                     |
| 5          | 800-2056         | 016-40816          | 4            | Screw, Cap - Hex Head (M8 x 16mm)                                                            |
| 6          | 850-2008         | 028-31508          | 4            | Washer, Lock - Spring (M8)                                                                   |
| 7          | 232-3526         | 150-10710          | 4            | Clamp, Stator                                                                                |
| 8          | 249-0741         | 450-26400          | 1            | Stator                                                                                       |
| 9          | 249-0495         | 450-13330          | 1            | Bolt, Hex Head                                                                               |
| 10         | 850-2010         | 028-31509          | 1            | Washer, Lock - Spring (M10)                                                                  |
| 11         | 249-0644         | 450-23900          | 1            | Rotor                                                                                        |
| 12         | 775-0049         | -                  | 1            | Pin, Dowel                                                                                   |
| 13         | 249-0642         | 450-22000          | 1            | Harness, Wiring (Universal Replacement)<br>Permanent Magnet Exciter to AUX Terminal<br>Strip |

# Overspeed Switch



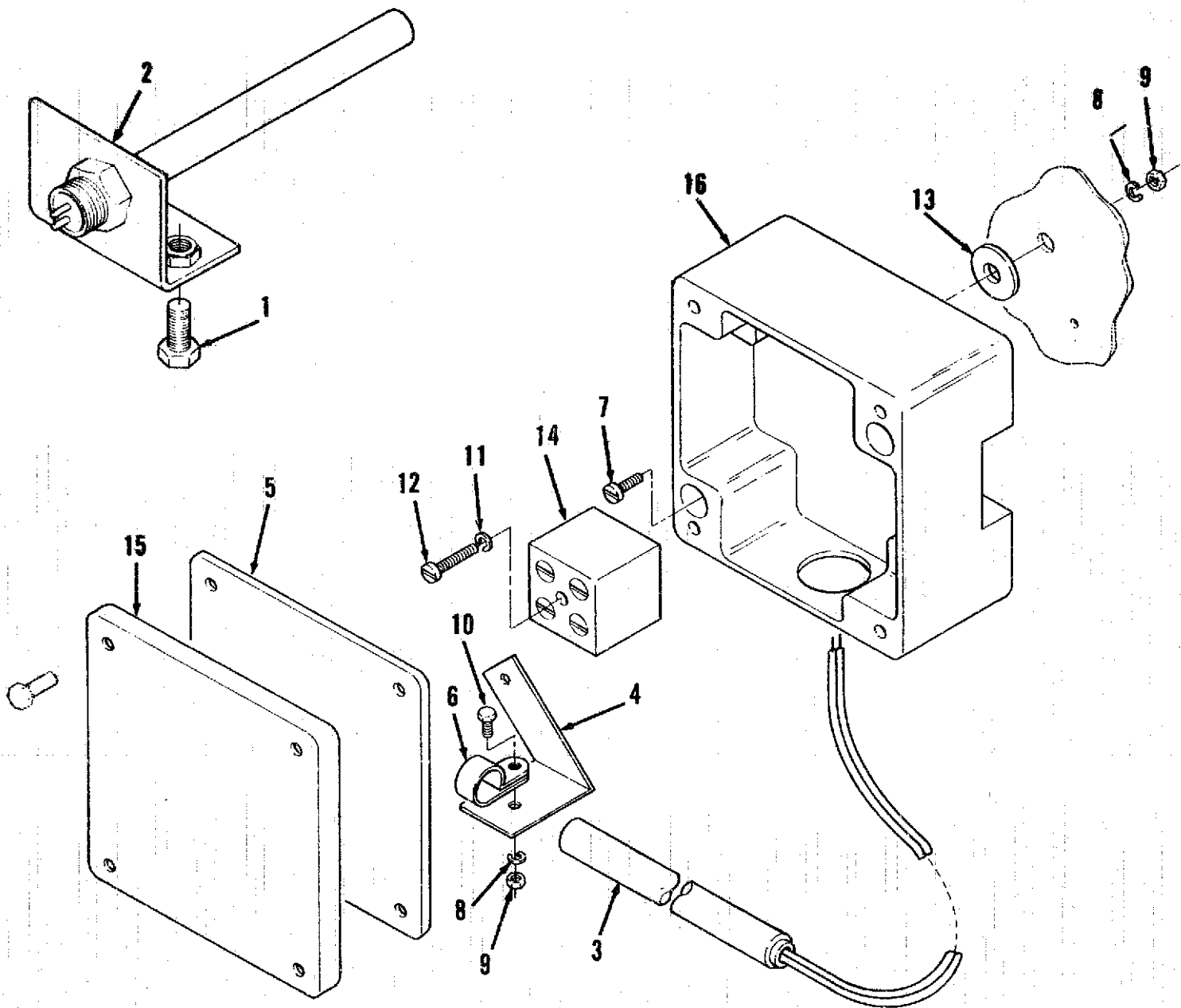
926A

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                     |
|---------|----------|----------|------------------------------------------------------|
| 1       | 150-2139 | 1        | Bracket and Point Assembly (Includes Parts Marked *) |
| 2       | 150-2138 | 1        | *Bracket, Mounting                                   |
| 3       | 853-0013 | 1        | *Washer, Lock - ET (1/4")                            |
| 4       | 862-0001 | 2        | *Nut, Hex (1/4-20)                                   |
| 5       | 870-0250 | 1        | *Nut, Insulator                                      |
| 6       | 150-0723 | 1        | *Point, Contact                                      |
| 7       | 800-2088 | 1        | Screw, Cap - Hex Head (M10 x 35mm)                   |

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                  |
|---------|----------|----------|-----------------------------------|
| 8       | 850-2010 | 1        | Washer, Lock - Spring (M10)       |
| 9       | 800-2056 | 2        | Screw, Cap - Hex Head (M8 x 16mm) |
| 10      | 850-2008 | 2        | Washer, Lock - Spring (M8)        |
| 11      | 150-0956 | 1        | Switch, Overspeed (S3)            |

\* - Parts Included in 150-2139 Bracket and Point Assembly.

# Generator Heater



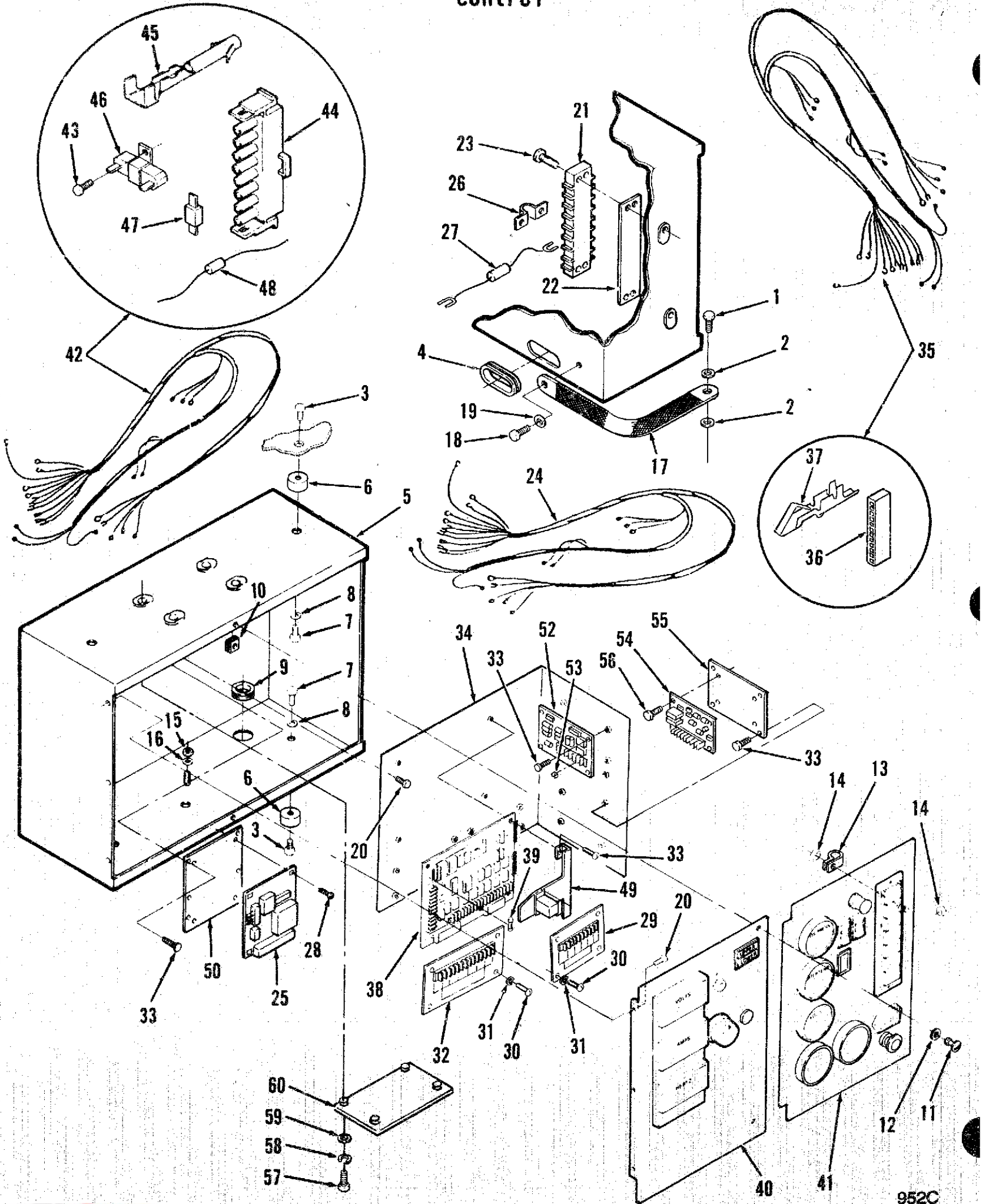
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## Generator Heater

| REF NO. | ONAN PART NO. | NEWAGE PART NO. | QTY. USED | PART DESCRIPTION                                                  |
|---------|---------------|-----------------|-----------|-------------------------------------------------------------------|
| 1       | 800-2010      | -               | 4         | Screw, Cap - Hex Head (M5 x 20mm)                                 |
| 2       |               |                 |           | Heater, Generator (Includes Mounting Brackets and Terminal Block) |
|         |               |                 |           | Newage Generator Model HC4                                        |
|         | 333-0382-02   | 410-H03         | 1         | 120 Volt                                                          |
|         | 333-0382-07   | 410-H04         | 1         | 240 Volt                                                          |
|         |               |                 |           | Newage Generator Model HC5                                        |
|         | 333-0382-03   | 520-H03         | 1         | 120 Volt                                                          |
|         | 333-0382-08   | 520-H04         | 1         | 240 Volt                                                          |
| 3       |               |                 |           | Cartridge, Heater                                                 |
|         |               |                 |           | Newage Generator Model HC4                                        |
|         | 333-0438-03   | 071-31053       | 2         | 120 Volt (150 Watt)                                               |
|         | 333-0438-04   | 071-31054       | 2         | 240 Volt (150 Watt)                                               |
|         |               |                 |           | Newage Generator Model HC5                                        |
|         | 333-0438-05   | 071-31055       | 1         | 120 Volt (300 Watt)                                               |
|         | 333-0438-06   | 071-31056       | 1         | 240 Volt (300 Watt)                                               |
| 4       |               |                 |           | Bracket, Mounting - Heater                                        |
|         |               |                 |           | Newage Generator Model HC4 (With Two Heater Mounting Holes)       |
|         | 232-3543      | 410-10130       | 1         | Left Side                                                         |
|         | 232-3544      | 410-10131       | 1         | Right Side                                                        |
|         |               |                 |           | Newage Generator Model HC5 (With One Heater Mounting Hole)        |
|         | 232-3560      | 520-10157       | 1         | Left Side                                                         |
|         | 232-3561      | 520-10158       | 1         | Right Side                                                        |
| 5       | 330-0141-04   | -               | 1         | Gasket, Cover                                                     |
| 6       | 332-3024-14   | 052-46055       | 2         | Clamp, Loop                                                       |
| 7       | 822-3075      | -               | 2         | Screw, Pan Head (M4 x 16mm)                                       |
| 8       | 850-2004      | -               | 4         | Washer, Lock - Spring (M4)                                        |
| 9       | 860-2005      | -               | 4         | Nut, Hex (M4)                                                     |
| 10      | 800-2010      | -               | 2         | Screw, Machine - Hex Head (M4 x 13mm)                             |
| 11      | 850-2003      | -               | 1         | Washer, Lock - Spring (M3)                                        |
| 12      | 822-3047      | -               | 1         | Screw, Pan Head (M3 x 20mm)                                       |
| 13      | 508-0228      | -               | 1         | Grommet                                                           |
| 14      | 332-3023      | 003-14010       | 1         | Block, Terminal                                                   |
| 15      | 330-0141-03   | -               | 1         | Cover, Box                                                        |
| 16      | 330-0142      | 450-10060       | 1         | Box, Terminal                                                     |



# Control



952C

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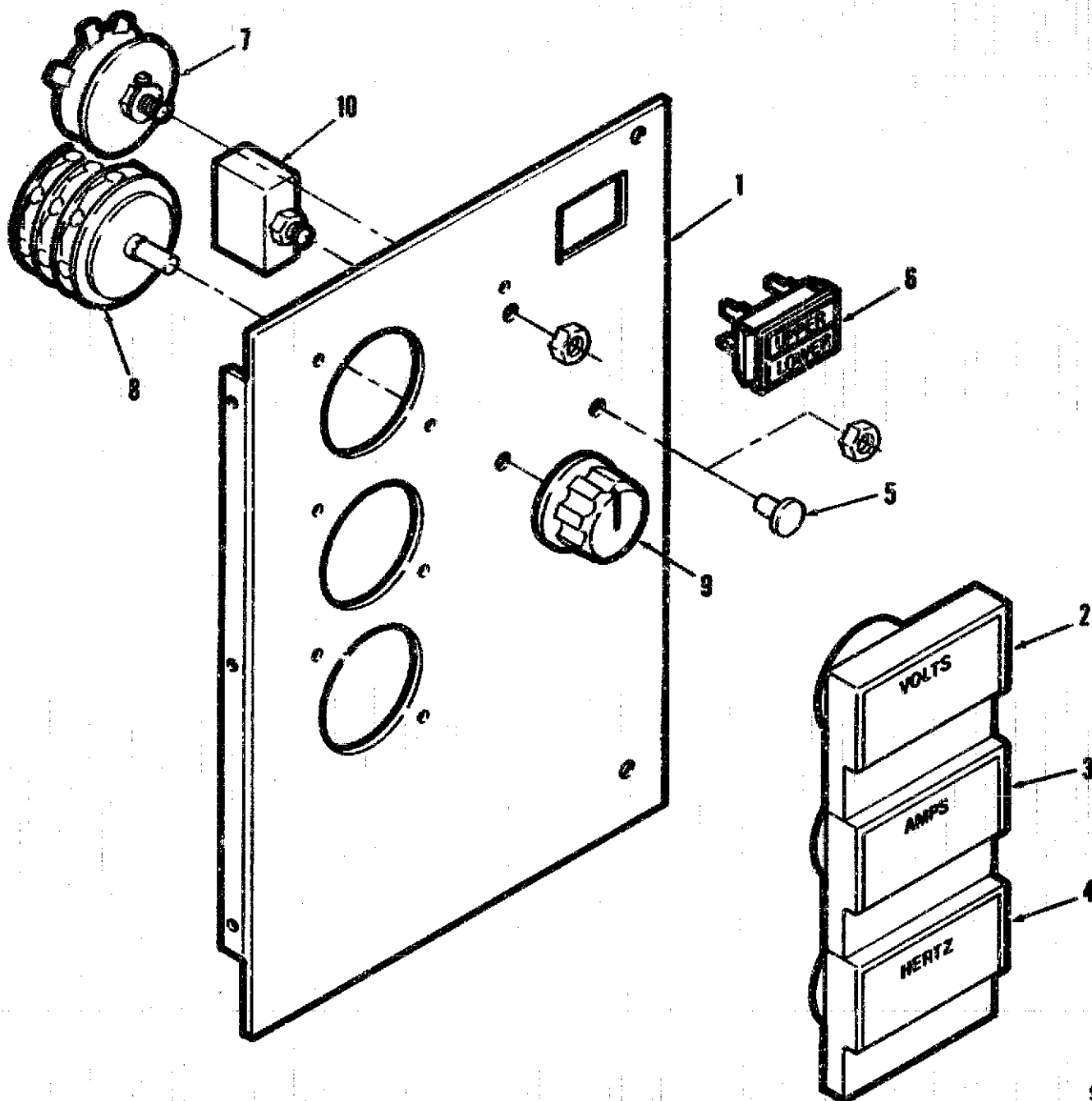
# Control

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                                                                                                           | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                                                                                                   |
|---------|----------|----------|--------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------|----------|------------------------------------------------------------------------------------------------------------------------------------|
| 1       | 821-0010 | 1        | Screw, Locking - Hex Washer Head (1/4-20 x 1/2")                                                                                           | 34      | 301-8851    | 1        | Bracket, Mounting                                                                                                                  |
| 2       | 856-0006 | 2        | Washer, Lock - EIT (1/4")                                                                                                                  | 35      | 338-2277    | 1        | Harness, Wiring - DC (Includes Connector Housing and Contact Pins) (DC Door Assembly to Engine Monitor)                            |
| 3       | 821-0014 | 4        | Screw, Self-Locking - Hex Washer Head (5/16-18 x 1/2")                                                                                     |         |             |          | Housing, Connector - 12 Place (J4)                                                                                                 |
| 4       | 508-0051 | 1        | Grommet (2" Hole)                                                                                                                          | 36      | 323-1308    | 1        | Pin, Contact                                                                                                                       |
| 5       | 301-8065 | 1        | Box, Control                                                                                                                               | 37      | 323-1302    | 12       | Monitor, Engine (Includes Fuses) (A11)                                                                                             |
| 6       | 402-0527 | 4        | Isolator, Vibration                                                                                                                        |         |             |          | 7 Light Control                                                                                                                    |
| 7       | 800-0045 | 4        | Screw, Cap - Hex Head (5/16-18 x 3/8")                                                                                                     | 38      | 300-2810    | 1        | 12 Light Control                                                                                                                   |
| 8       | 850-0045 | 4        | Washer, Lock - Spring (5/16")                                                                                                              |         | 300-2812    | 1        | Fuse                                                                                                                               |
| 9       | 508-0001 | 1        | Grommet (1-1/16" Hole)                                                                                                                     |         |             |          | 20 Amp (F1, F2)                                                                                                                    |
| 10      | 406-0332 | 2        | Receptacle, Fastener                                                                                                                       | 39      | 321-0270    | 2        | 15 Amp (F3)                                                                                                                        |
| 11      | 406-0333 | 2        | Stud, Fastener                                                                                                                             |         | 321-0231    | 1        | 5 Amp (F4, F5)                                                                                                                     |
| 12      | 406-0334 | 2        | Washer, Stud Retainer                                                                                                                      |         | 321-0094    | 2        | Door Assembly, Control - AC (See Separate Page for Components)                                                                     |
| 13      | 332-0052 | 2        | Clip, Wire                                                                                                                                 | 40      | -           | 1        | Door Assembly, Control - DC (See Separate Page for Components)                                                                     |
| 14      | 870-0131 | 3        | Nut, Hex - With ET (#10-32)                                                                                                                |         |             |          | Harness, Wiring - Engine to Control                                                                                                |
| 15      | 871-0015 | 1        | Nut, Hex (1/4-20) Grounding Stud                                                                                                           | 41      | -           | 1        | Spec E, DFEB, DFFA, DFFB (Includes Connector Housings and Sockets)                                                                 |
| 16      | 853-0013 | 1        | Washer, Lock - ET (1/4") Grounding Stud                                                                                                    |         |             |          | Begin Spec F (DFEB, DFFA, DFFB, DFEC Spec A) (Includes Connector Housings, Sockets, Rectifier, Resistor, Diode and Mounting Screw) |
| 17      | 337-0049 | 1        | Strap, Ground                                                                                                                              | 42      | 338-2437    | 1        | *Screw, Cap - Hex Head (1/4-20 x 1/2") Begin Spec F                                                                                |
| 18      | 800-0024 | 1        | Screw, Cap - Hex Head (5/16-18 x 1/2")                                                                                                     |         | 338-2622    | 1        | Housing, Connector                                                                                                                 |
| 19      | 856-0008 | 1        | Washer, Lock - EIT (5/16")                                                                                                                 |         |             |          | 6 Place (J2)                                                                                                                       |
| 20      | 821-0004 | 8        | Screw, Self-Locking - Hex Washer Head (#10-32 x 5/16")                                                                                     |         |             |          | 8 Place (J1)                                                                                                                       |
| 21      | 332-0607 | 1        | Block, Terminal - 12 Place (TB21)                                                                                                          | 43      | 800-1003    | 1        | Socket, Female                                                                                                                     |
| 22      | 332-2723 | 1        | Strip, Marker - 12 Place                                                                                                                   |         |             |          | Spec E, DFEB, DFFA, DFFB                                                                                                           |
| 23      | 812-0065 | 2        | Screw, Machine - Round Head (#6-32 x 5/8")                                                                                                 | 44      | 323-1304    | 1        | Begin Spec F, (DFEB, DFFA, DFFB, DFEC Spec A)                                                                                      |
| 24      | 338-2278 | 1        | Harness, Wiring                                                                                                                            |         | 323-1306    | 1        | *Resistor (R1)                                                                                                                     |
|         |          |          | AC Door Assembly to TB21                                                                                                                   | 45      | 323-1200    | 12       | *Rectifier (CR1)                                                                                                                   |
|         |          |          | Terminal Block (Includes TB21 Terminal Block)                                                                                              |         | 323-1200    | 11       | *Diode (CR2)                                                                                                                       |
|         | 338-1835 | 1        | Alarm Relay (8 Wire) (A13 to A11TB1 and TB2)                                                                                               | 46      | 353-0094-01 | 1        | Relay, Run (See Separate Page for Components)                                                                                      |
|         | 338-1836 | 1        | Alarm Relay (5 Wire) (A14 to A11TB2)                                                                                                       | 47      | 357-0030    | 1        | Plate, Mounting (Used With Model MX321 Voltage Regulator)                                                                          |
|         | 338-1904 | 1        | Time Delay Start/Stop (A15 to A11TB1)                                                                                                      | 48      | 359-0051    | 1        | Screw, Machine - Round Head - Cross Recessed With IT (#6-32 x 1/2")                                                                |
|         | 338-2447 | 1        | Electronic Overspeed (A16 to A11TB1-1, -5, -10 and AUX-P2, P3)                                                                             | 49      | -           | 1        | Board, Printed Circuit - Time Delay - Start/Stop/Preheat (A15)                                                                     |
| 25      | 305-0824 | 1        | Regulator, Voltage (VR21) Used Without Permanent Magnet Exciter Generators (Model SX440) (Also available as Newage Part Number E000-24030) | 50      | 319-0652    | 1        | Without Preheat                                                                                                                    |
|         | 305-0823 | 1        | Used With Permanent Magnet Exciter Generators (Model MX321) (Also Available as Newage Part Number E000-23210)                              | 51      | 815-0544    | 6        | With Preheat                                                                                                                       |
| 26      | 332-1043 | 1        | Jumper, Terminal (TB21-22 to 21)                                                                                                           | 52      |             | 1        | Terminal, Tab (Double) (A15TB1-7)                                                                                                  |
| 27      | 350-1222 | 1        | Resistor (TB21-32 to 26)                                                                                                                   |         |             |          | Board, Printed Circuit - Electronic Overspeed (A16)                                                                                |
| 28      | 815-0540 | 4        | Screw, Machine - Round Head - Cross Recessed With IT (#8-32 x 1")                                                                          | 53      | 300-2899    | 1        | Plate, Mounting                                                                                                                    |
| 29      | 300-2856 | 1        | Board, Printed Circuit - Alarm Relay (12 Light Control) (A14)                                                                              |         | 300-2900    | 1        | Screw, Machine - Round Head (#8-32 x 1")                                                                                           |
| 30      | 812-0063 | 8        | Screw, Machine - Round Head (#6-32 x 1/2")                                                                                                 | 54      | 332-2957    | 1        | Screw, Machine - Round Head (#10-32 x 1-1/2")                                                                                      |
| 31      | 853-0003 | 8        | Washer, Lock - ET (#6)                                                                                                                     | 55      | 305-0818-02 | 1        | Washer, Lock + Spring (#10)                                                                                                        |
| 32      | 300-2863 | 1        | Board, Printed Circuit - Alarm Relay (7 and 12 Light Control) (A13)                                                                        | 56      | 319-0754    | 1        | Washer, Flat (#10)                                                                                                                 |
| 33      | 815-0544 | 12       | Screw, Machine - Round Head - Cross Recessed With IT (#6-32 x 1/2")                                                                        | 57      | 812-0084    | 4        | Transformer, Isolation (Also Available as Newage Part Number E000-22070) (T30)                                                     |
|         |          |          |                                                                                                                                            | 58      | 813-0108    | 4        |                                                                                                                                    |
|         |          |          |                                                                                                                                            | 59      | 850-0030    | 4        |                                                                                                                                    |
|         |          |          |                                                                                                                                            | 60      | 526-0008    | 4        |                                                                                                                                    |
|         |          |          |                                                                                                                                            |         | 305-0868    | 1        |                                                                                                                                    |

\* - Begin Spec F - DFEB, DFFA, DFFB Spec A-DFEC

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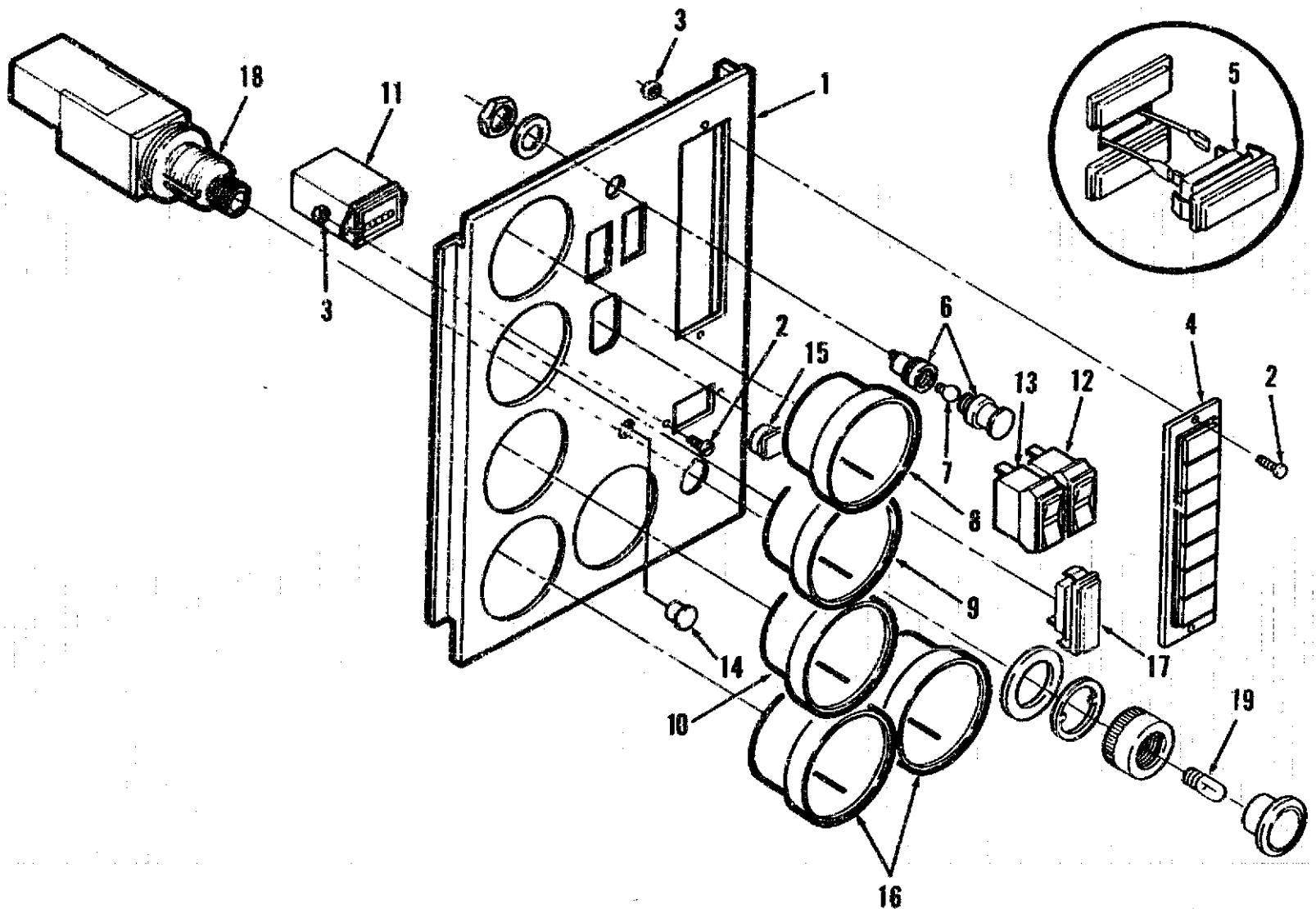
# AC Control Door Assembly



928A

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                   | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                             |
|---------|-------------|----------|----------------------------------------------------|---------|-------------|----------|--------------------------------------------------------------|
| 1       | 301-9054-03 | 1        | Door, Control - AC Doors Without Round Meter Holes | 5       | 517-0131    | 1        | Plug, Hole (3/8" Hole)                                       |
|         | 301-9054-02 | 1        | Doors With Three Round Meter Holes                 | 6       | 322-0363    | 1        | Light, Indicator - Upper/Lower Scale (DS21, DS22)            |
|         | 301-9054-01 | 1        | Doors With Four Round Meter Holes                  | 7       |             |          | Potentiometer - Voltage Adjust (R21)                         |
|         | 301-9054-04 | 1        | Doors With Five Round Meter Holes                  |         | 303-0261    | 1        | 1.5K Ohms (Used with Model SX440 Voltage Regulator)          |
|         |             |          |                                                    |         | 303-0285    | 1        | 5K Ohms (Used with Model MX321 Voltage Regulator)            |
| 2       | 302-114R    | 1        | Voltmeter (M21) 0-300/600                          | 8       | 308-0882    | 1        | Switch, Rotary - Voltmeter/Ammeter (Knob Not Included) (S21) |
|         | 302-1753    | 1        | 0-750                                              | 9       | 303-0032    | 1        | Knob, Rotary Switch                                          |
| 3       | 302-1728    | 1        | Ammeter (M22) 0-600/1200                           | 10      |             |          | Breaker, Circuit (CB21)                                      |
|         | 302-1729    | 1        | 0-750/1500                                         |         | 320-1688-01 | 1        | Without Auxiliary Contacts                                   |
|         | 302-1798    | 1        | 0-1000/2000                                        |         | 320-1688-02 | 1        | With Auxiliary Contacts                                      |
| 4       | 302-1720    | 1        | Meter, Frequency (M23)                             |         |             |          |                                                              |

# DC Control Door Assembly

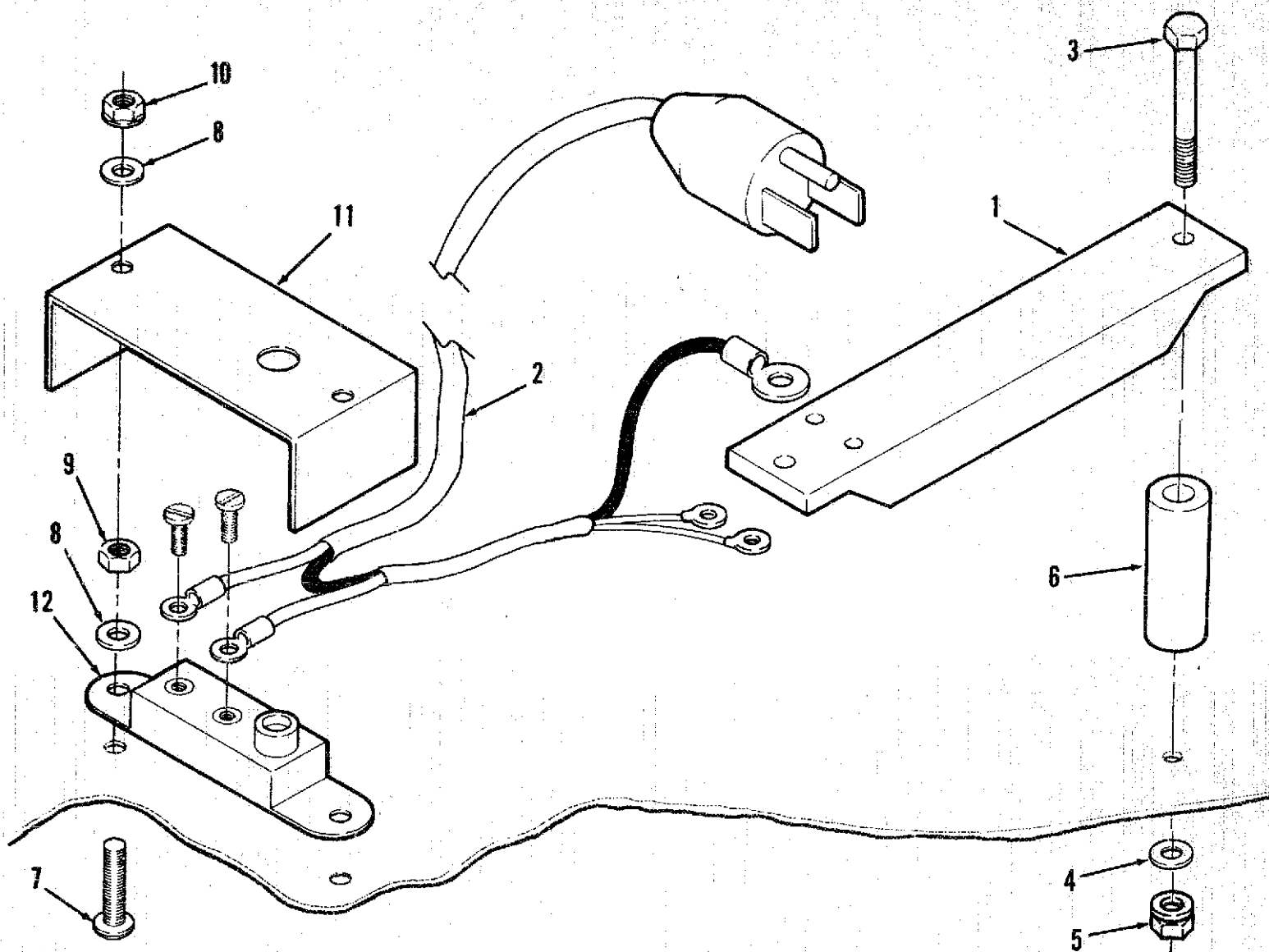


948B

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                                                | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                                          |
|---------|-------------|----------|---------------------------------------------------------------------------------|---------|----------|----------|---------------------------------------------------------------------------|
| 1       | 301-9055-02 | 1        | Door, Control - DC Doors With Three Round Gauge Holes                           | 9       | 193-0351 | 1        | Gauge, Water Temperature (M12)                                            |
|         | 301-9055-01 | 1        | Doors With Five Round Gauge Holes                                               | 10      | 302-1642 | 1        | Voltmeter (M13)                                                           |
| 2       | 815-0385    | 4        | Screw, Machine - Round Head (#6-32 x 1/2")                                      | 11      | 302-0885 | 1        | Meter, Time Totalizing (M14)                                              |
| 3       | 870-0183    | 4        | Nut, Hex - With ET (#6-32)                                                      | 12      | 308-0892 | 1        | Switch, Rocker - Restart/Preheat/Panel Light (S11)                        |
| 4       |             |          | Light Assembly, Indicator (Includes Wiring Harness and Connector Housing) (A12) | 13      | 308-0784 | 1        | Switch, Rocker - Run/Stop/Remote (S12)                                    |
|         | 322-0359-02 | 1        | 7 Light Assembly                                                                | 14      | 517-0131 | 1        | Plug, Hole (3/8" Hole)                                                    |
|         | 322-0360-02 | 1        | 12 Light Assembly                                                               | 15      | 193-0250 | 2        | Resistor (Mounted on Oil Pressure and Water Temperature Gauges) (R11,R12) |
| 5       | 322-0369-02 | 1        | Light, Indicator - Replacement                                                  | 16      | 302-1723 | 2        | Ammeter - Blank Scale                                                     |
| 6       | 322-0361    | 1        | Light, Panel (DS11)                                                             | 17      | 301-6257 | 1        | Switch - Blank                                                            |
| 7       | 322-0017    | 1        | Bulb, Panel Light - Replacement                                                 | 18      | 308-0853 | 1        | Switch, Pushbutton - Emergency Stop (Includes Bulb) (S14)                 |
| 8       | 193-0352    | 1        | Gauge, Oil Pressure (M11)                                                       | 19      | 322-0223 | 1        | Bulb, Pushbutton Switch - Replacement                                     |



# Control Heater



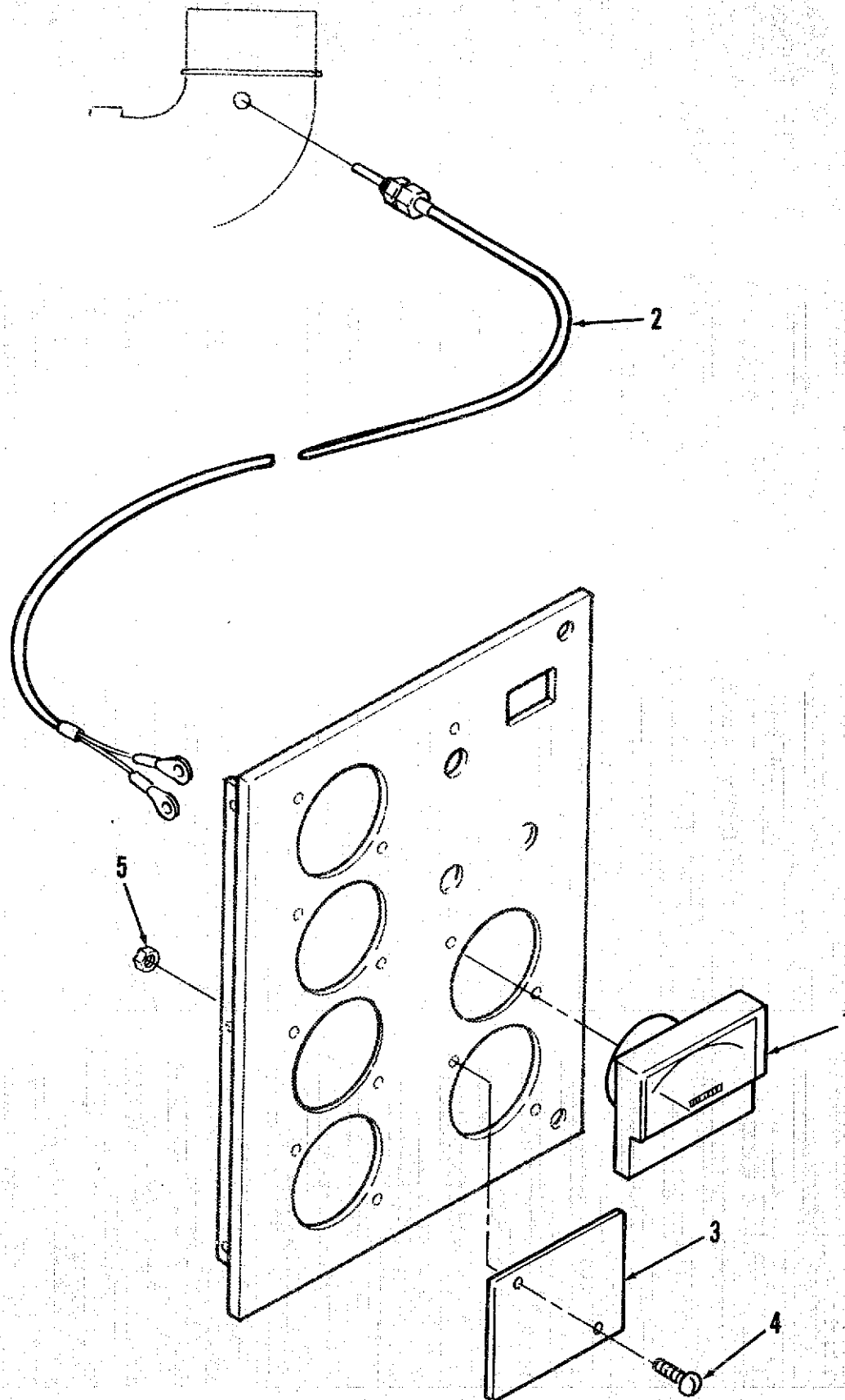
950B

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                             |
|---------|----------|----------|----------------------------------------------|
| 1       | 333-0151 | 1        | Heater (HR1)                                 |
| 2       | 335-0161 | 1        | Cable                                        |
| 3       | 800-0034 | 2        | Screw, Cap - Hex Head (5/16-18 x 2-1/4")     |
| 4       | 526-0113 | 2        | Washer, Flat (11/32" ID x 1" OD x 3/32" Thk) |
| 5       | 870-0257 | 2        | Nut, Self-Locking - Hex Head (5/16-18)       |

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                             |
|---------|----------|----------|----------------------------------------------|
| 6       | 130-1107 | 2        | Spacer                                       |
| 7       | 812-0070 | 2        | Screw, Machine - Round Head (#6-32 x 1-1/4") |
| 8       | 854-0006 | 4        | Washer, Lock - IT (#6)                       |
| 9       | 860-0006 | 2        | Nut, Hex (#6-32)                             |
| 10      | 870-0183 | 2        | Nut, Hex - With ET (#6-32)                   |
| 11      | 301-1886 | 1        | Cover                                        |
| 12      | 309-0128 | 1        | Thermostat (S1)                              |



# Pyrometer

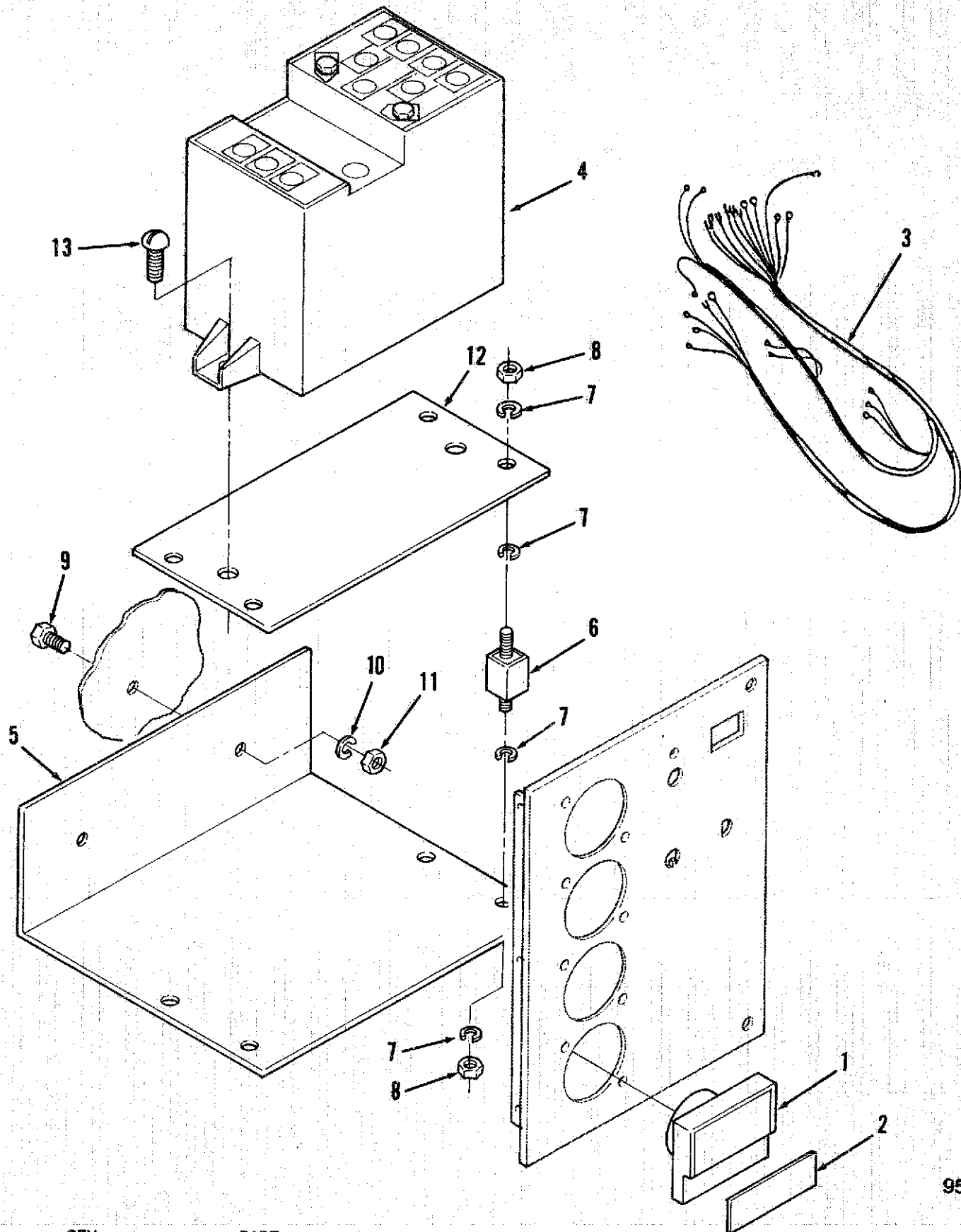


929A

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION   |
|---------|----------|----------|--------------------|
| 1       | 302-1874 | 1        | Pyrometer (M26)    |
| 2       | 193-0299 | 1        | Lead, Thermocouple |
| 3       | 301-9993 | 2        | Plate, Cover       |

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                           |
|---------|----------|----------|--------------------------------------------|
| 4       | 815-0385 | 4        | Screw, Machine - Round Head (#6-32 x 1/2") |
| 5       | 870-0183 | 4        | Nut, Hex - With ET (#6-32)                 |

# Wattmeter



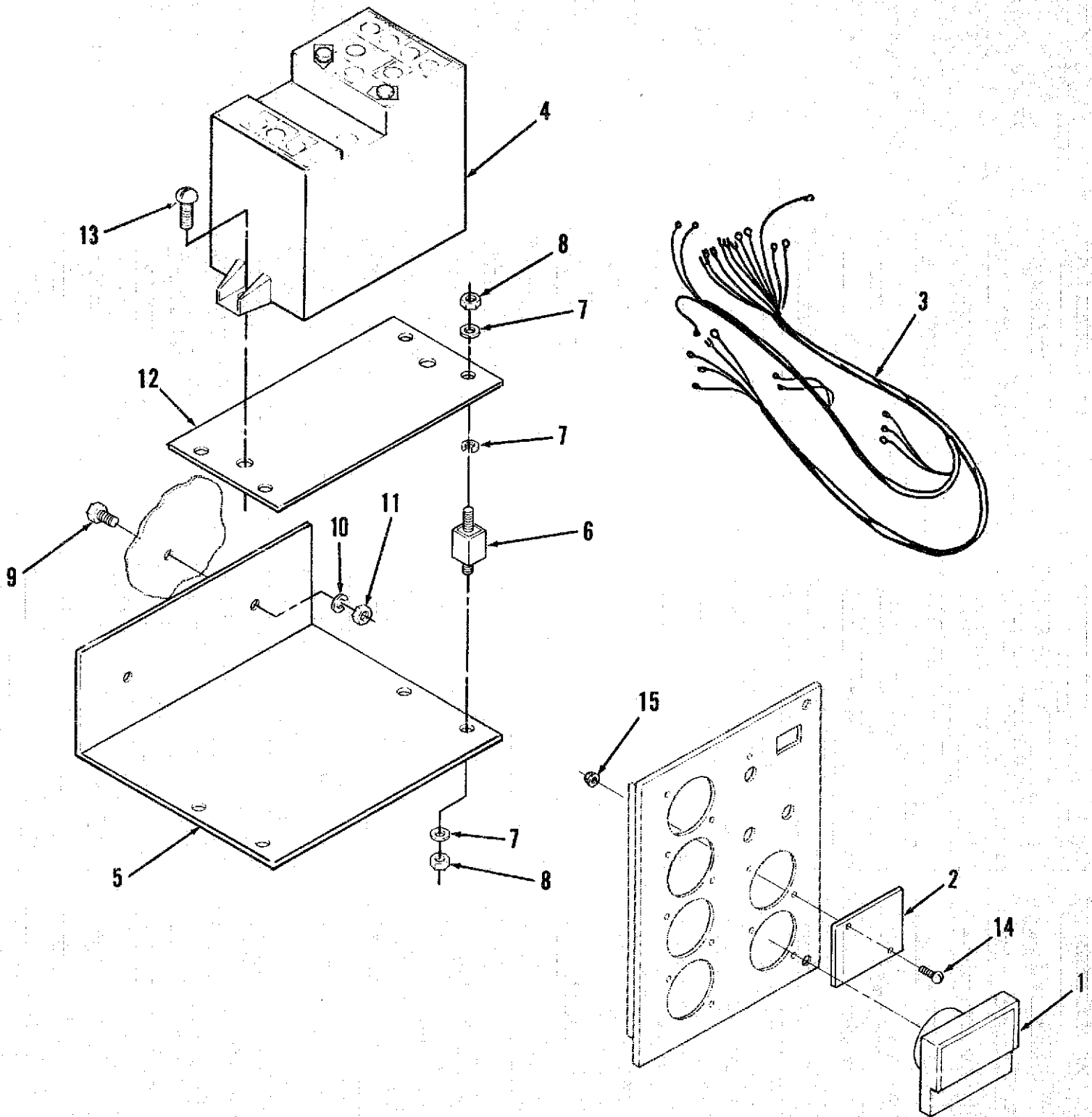
953C

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                    |
|---------|-------------|----------|-------------------------------------|
| 1       | 302-1722    | 1        | Wattmeter (Dial Not Included) (M24) |
| 2       |             |          | Dial, Wattmeter                     |
|         | 302-1721-13 | 1        | 0-500 KW Rating                     |
|         | 302-1721-14 | 1        | 0-600 KW Rating                     |
| 3       | 338-1936    | 1        | Harness, Wiring - Wattmeter         |
| 4       | 302-1833-01 | 1        | Transducer, Watts (A21)             |
| 5       | 301-6987    | 1        | Bracket, Mounting                   |
| 6       | 402-0354    | 4        | Mount, Shock                        |

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                   |
|---------|----------|----------|----------------------------------------------------|
| 7       | 856-0002 | 16       | Washer, Lock - ET (#8)                             |
| 8       | 860-0008 | 8        | Nut, Hex (#8-32)                                   |
| 9       | 821-0017 | 2        | Screw, Locking - Hex Washer Head (5/16-18 x 1/2'') |
| 10      | 850-0045 | 2        | Washer, Lock - Spring (5/16'')                     |
| 11      | 862-0014 | 2        | Nut, Hex (5/16-18)                                 |
| 12      | 319-0030 | 1        | Plate, Mounting                                    |
| 13      | 813-0102 | 2        | Screw, Machine - Round Head (#10-32 x 5/8'')       |

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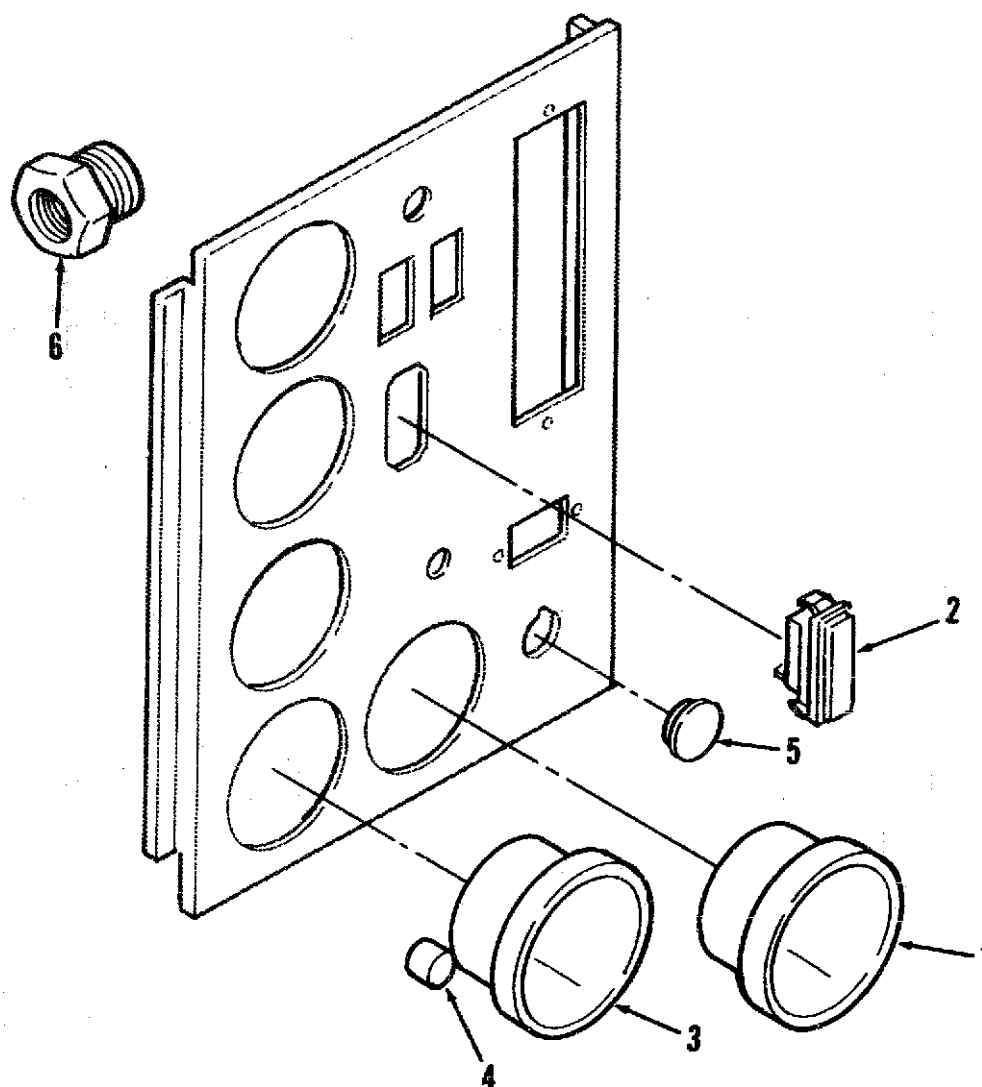
# Power Factor Meter



943A

| REF NO. | PART NO.    | Y USED | PART DESCRIPTION                                  | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                            |
|---------|-------------|--------|---------------------------------------------------|---------|----------|----------|---------------------------------------------|
| 1       | 302-1883    | 1      | Meter - Power Factor (M25)                        | 10      | 850-0045 | 2        | Washer, Lock - Spring (5/16")               |
| 2       | 301-9993    | 1      | Plate, Cover                                      | 11      | 862-0014 | 2        | Nut, Hex (5/16-18)                          |
| 3       | 338-2368    | 1      | Harness, Wiring - Meter                           | 12      | 319-0030 | 1        | Plate, Mounting                             |
| 4       | 302-1833-03 | 1      | Transducer, Watts (A21)                           | 13      | 813-0102 | 2        | Screw, Machine - Round Head (#10-32 x 5/8") |
| 5       | 301-6987    | 1      | Bracket, Mounting                                 | 14      | 815-0385 | 2        | Screw, Machine - Round Head (#6-32 x 1/2")  |
| 6       | 402-0354    | 4      | Mount, Shock                                      | 15      | 870-0183 | 2        | Nut, Hex - With ET (#6-32)                  |
| 7       | 856-0002    | 16     | Washer, Lock - ET (#8)                            |         |          |          |                                             |
| 8       | 860-0008    | 8      | Nut, Hex (#8-32)                                  |         |          |          |                                             |
| 9       | 821-0017    | 2      | Screw, Locking - Hex Washer Head (5/16-18 x 1/2") |         |          |          |                                             |

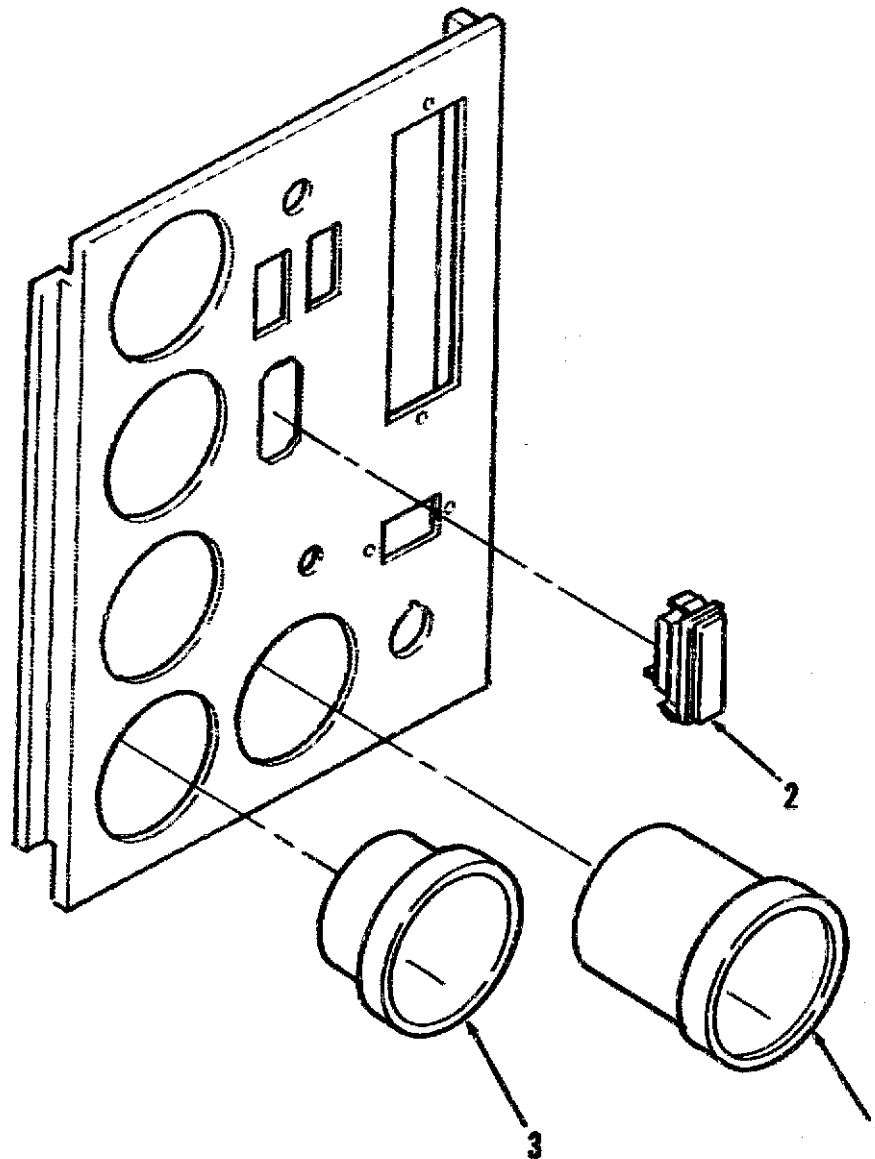
# Oil Temperature Gauge



923A

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION               | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                |
|---------|----------|----------|--------------------------------|---------|----------|----------|---------------------------------|
| 1       | 302-1723 | 1        | Ammeter - Blank Scale          | 4       | 193-0250 | 1        | Resistor, Gauge (R13)           |
| 2       | 301-6257 | 1        | Switch - Blank                 | 5       | 517-0137 | 1        | Plug, Hole (7/8" Hole)          |
| 3       | 193-0330 | 1        | Gauge, Temperature - Oil (M15) | 6       | 505-0151 | 1        | Bushing, Reducer (1/2" to 1/8") |

# Tachometer

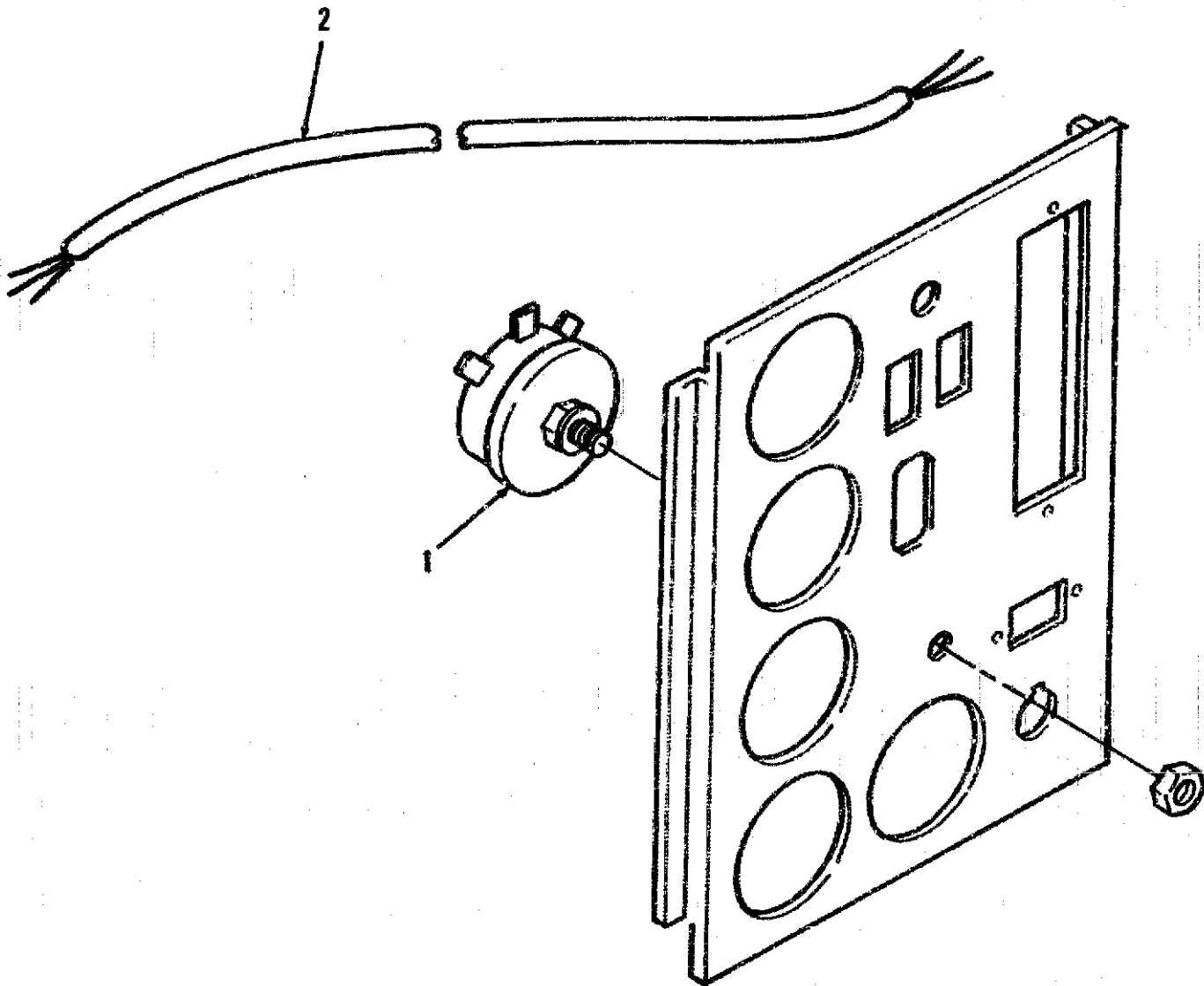


924A

| REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION           |
|------------|-------------|-------------|-------------------------------|
| 1          | 302-1873-01 | 1           | Tachometer (0-4000 RPM) (M16) |
| 2          | 301-6257    | 1           | Switch - Blank                |
| 3          | 302-1723    | 1           | Ammeter - Blank Scale         |



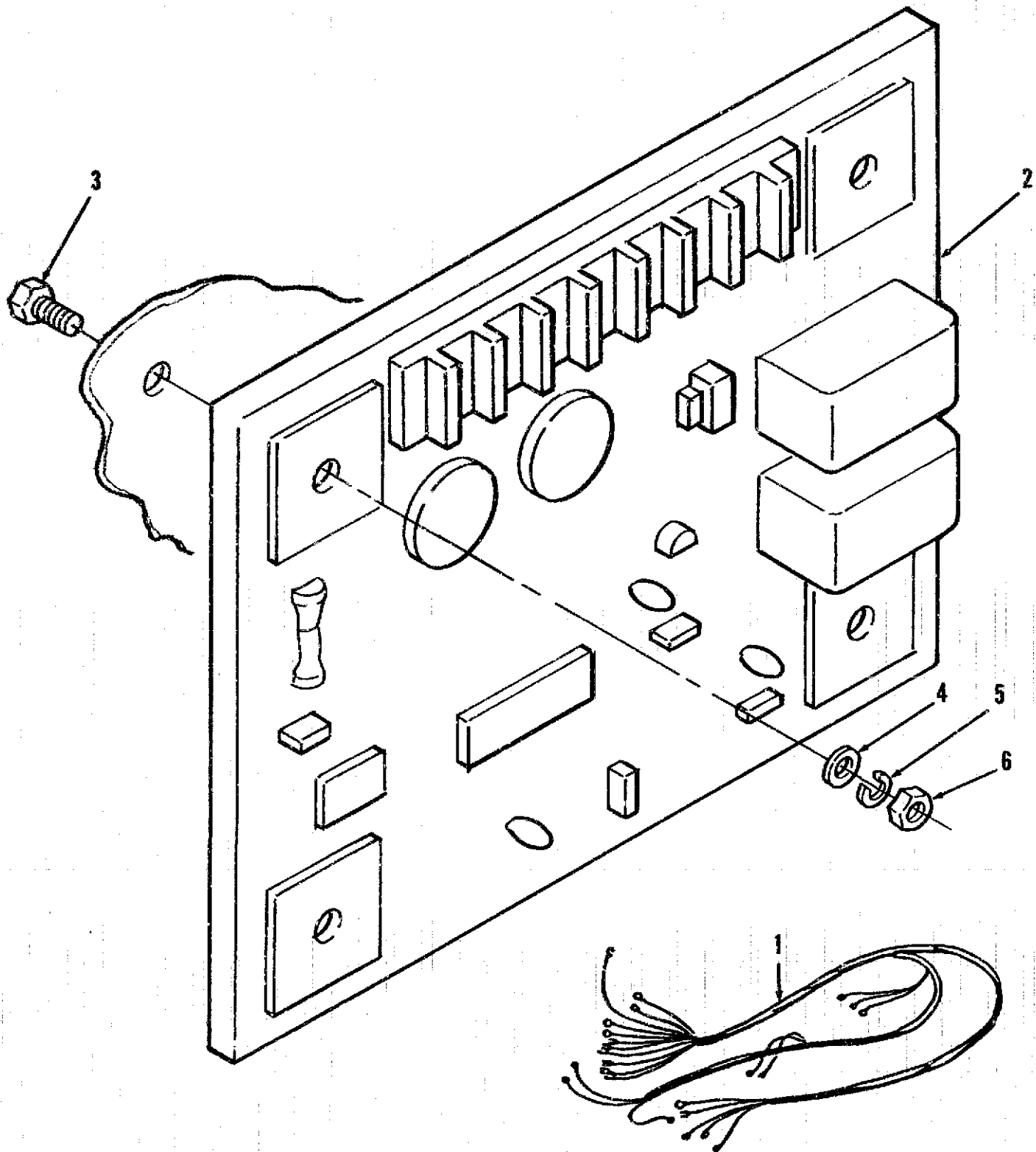
Potentiometer  
(Speed Adjusting)



938A

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                            |
|---------|----------|----------|-------------------------------------------------------------|
| 1       | 303-0280 | 1        | Potentiometer - Speed Adjusting - Governor Controller (R21) |
| 2       | 334-0116 | 1        | Cable, Shielded (10')                                       |

# Excitation Loss Module

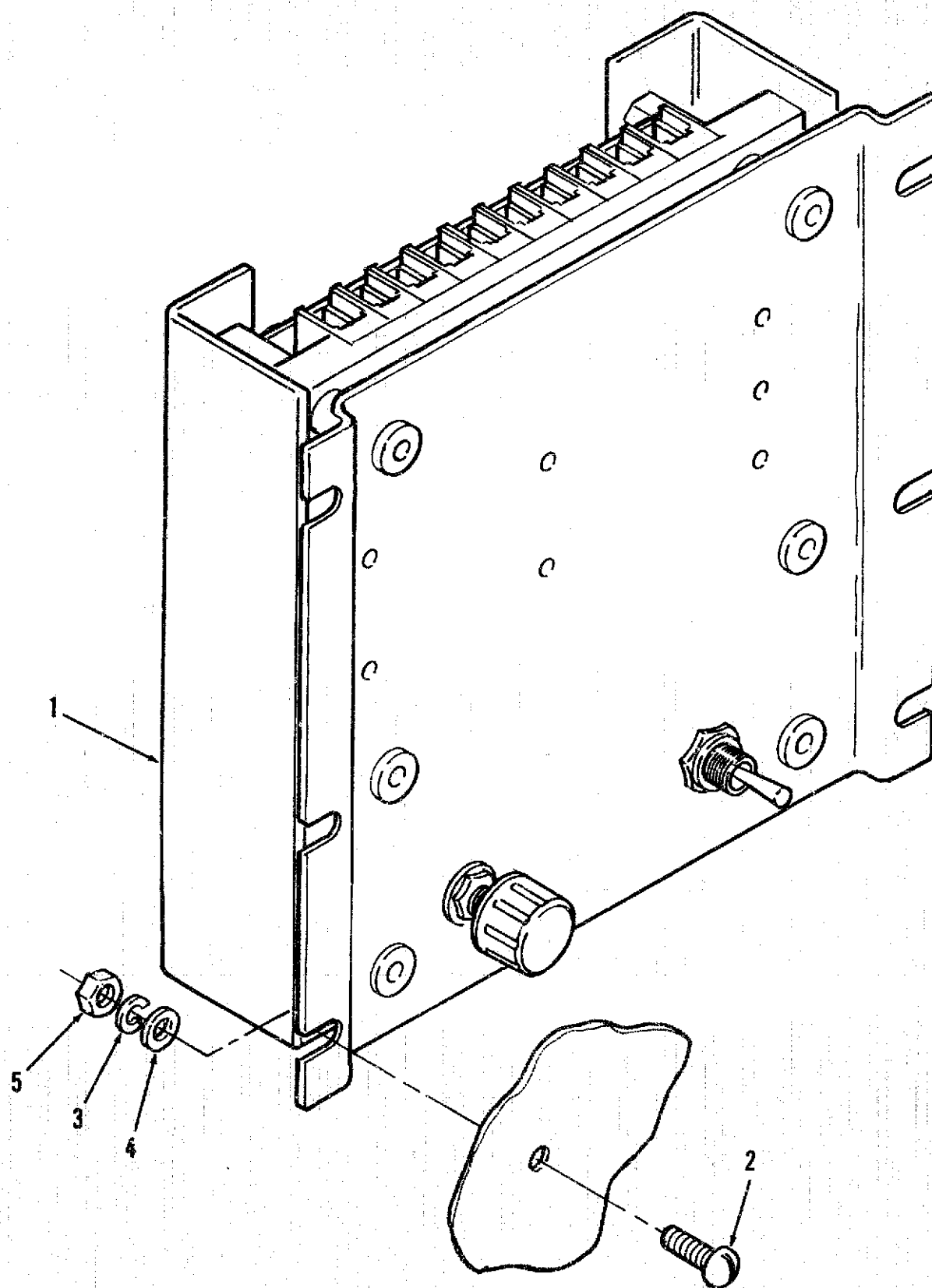


939A

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                        |
|---------|-------------|----------|---------------------------------------------------------|
| 1       | 338-2455    | 1        | Harness, Wiring                                         |
| 2       | 305-0821-02 | 1        | Module (Also available as Newage part number 450-16300) |
| 3       | 800-2013    | 4        | Screw, Cap - Hex Head (M5 x 35mm)                       |

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION           |
|---------|----------|----------|----------------------------|
| 4       | 526-2060 | 4        | Washer, Flat (M5)          |
| 5       | 650-2005 | 4        | Washer, Lock - Spring (M5) |
| 6       | 860-2006 | 4        | Nut, Hex (M5)              |

# Manual Voltage Regulator

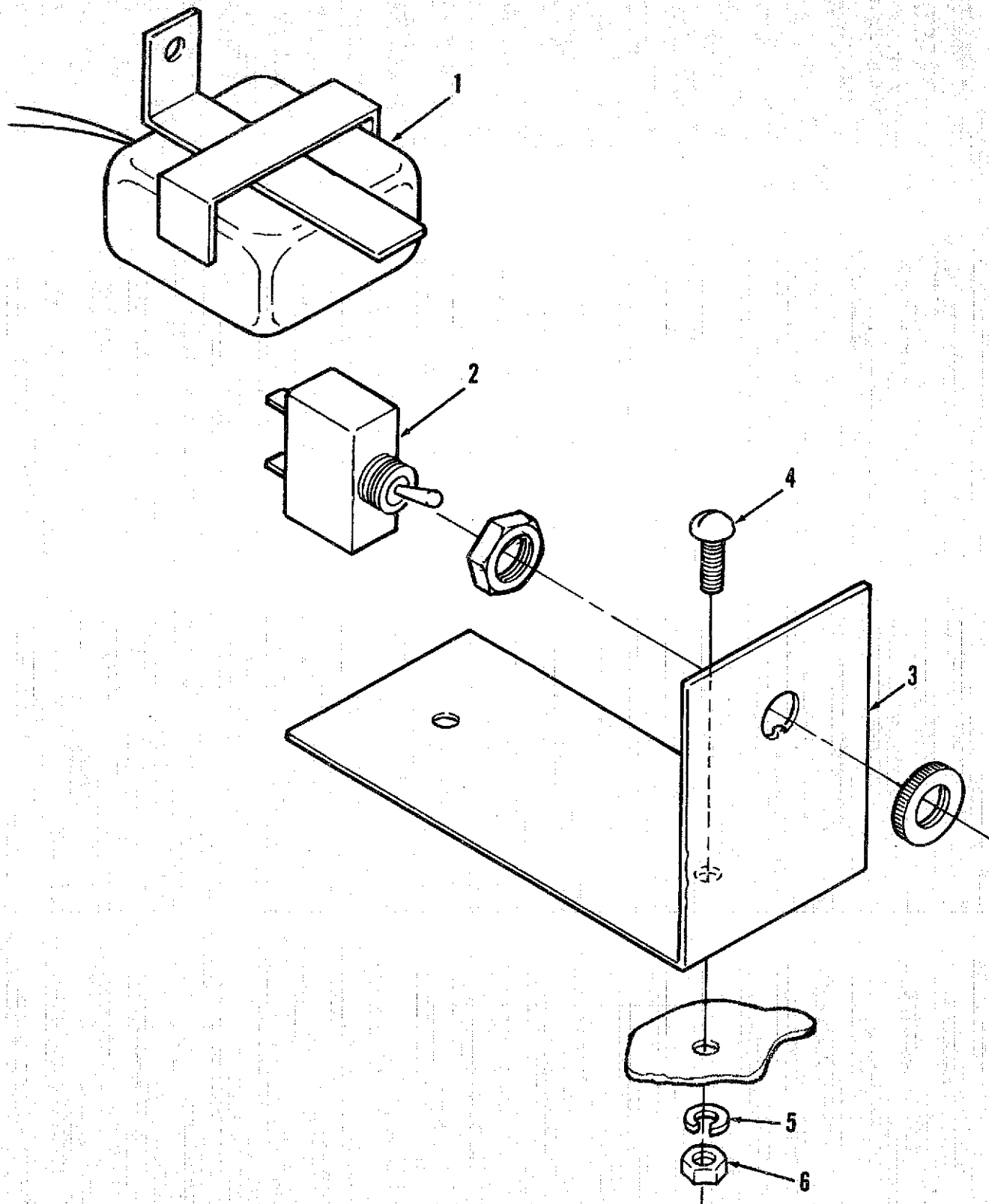


930A

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                                                   |
|---------|----------|----------|------------------------------------------------------------------------------------|
| 1       | 305-0817 | 1        | Regulator, Voltage - Manual<br>(Also Available as Newage<br>Part Number 450-11400) |
| 2       | 813-0100 | 4        | Screw, Machine - Round Head<br>(#10-32 x 1/2")                                     |

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION            |
|---------|----------|----------|-----------------------------|
| 3       | 850-0030 | 4        | Washer, Lock - Spring (#10) |
| 4       | 526-0008 | 4        | Washer, Flat (#10)          |
| 5       | 871-0010 | 4        | Nut, Hex (#10-32)           |

# Cross Current Compensation Circuit

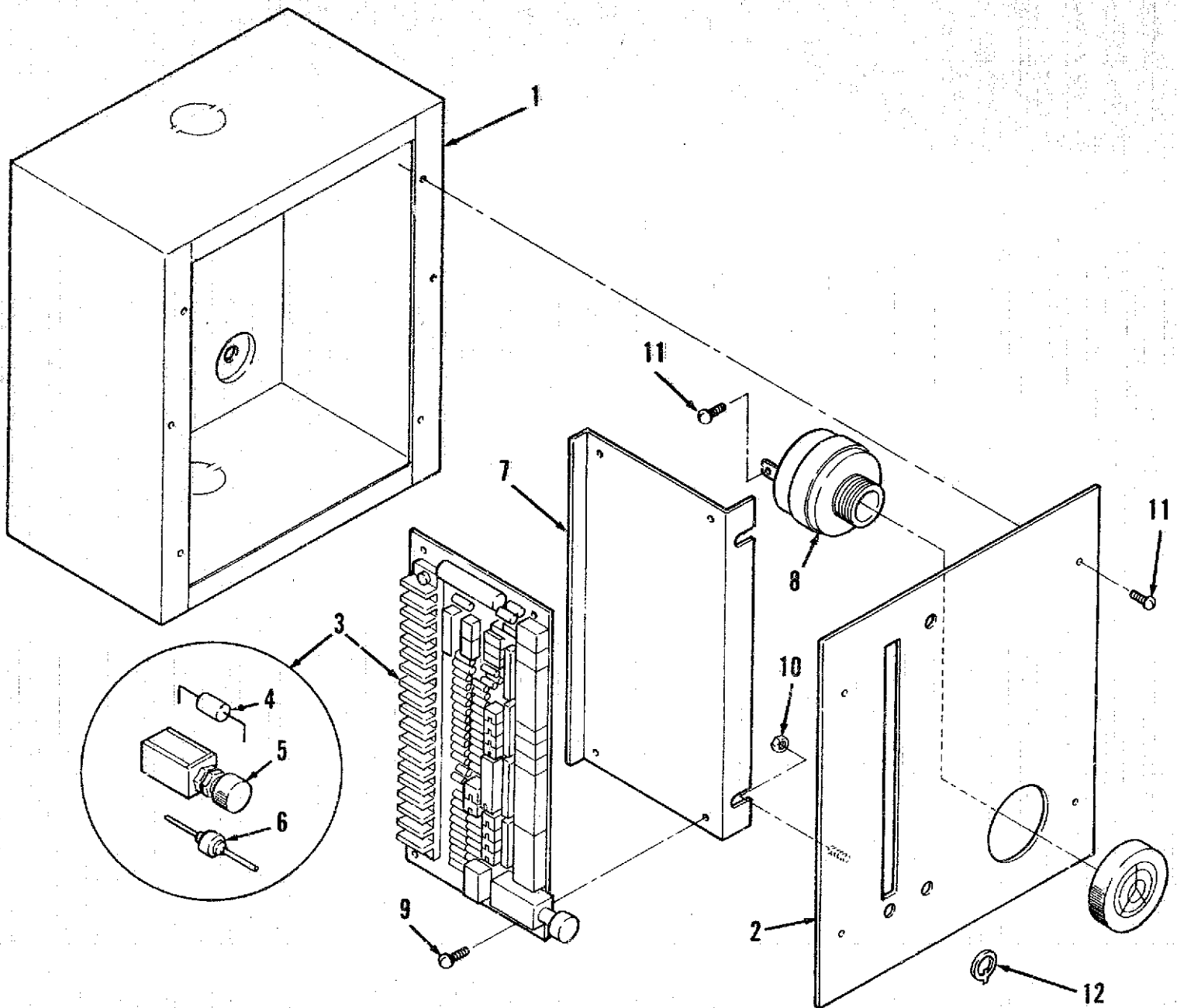


925A

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                            |
|---------|-------------|----------|---------------------------------------------|
| 1       | 302-1852-02 | 1        | Transformer, Current                        |
| 2       | 308-0069    | 1        | Switch, Toggle (S22)                        |
| 3       | 301-9657    | 1        | Bracket, Mounting                           |
| 4       | 813-0100    | 2        | Screw, Machine - Round Head (#10-32 x 1/2") |

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION            |
|---------|----------|----------|-----------------------------|
| 5       | 850-0030 | 2        | Washer, Lock - Spring (#10) |
| 6       | 870-0053 | 2        | Nut, Hex (#10-32)           |

# Remote Annunciator Panel



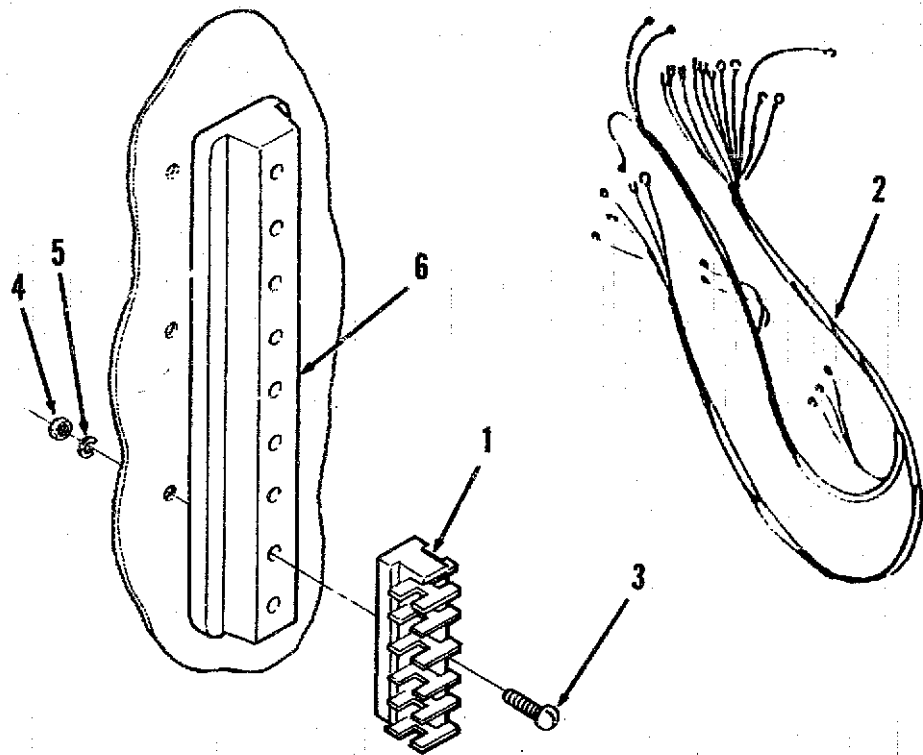
956C

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                                           |
|---------|----------|----------|----------------------------------------------------------------------------|
| 1       | 301-3090 | 1        | Box                                                                        |
| 2       | 301-7619 | 1        | Panel                                                                      |
| 3       | 300-2737 | 1        | Board, Printed Circuit - Annunciator (Includes Resistor, Switch and Diode) |
| 4       | 352-0180 | 1        | Resistor (5 Watt, 100 Ohm) (R1)                                            |
| 5       | 308-0333 | 1        | Switch, Push Button (S1)                                                   |
| 6       | 359-0058 | 1        | Diode (5 Watt) (VR1)                                                       |

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                            |
|---------|----------|----------|---------------------------------------------|
| 7       | 301-7620 | 1        | Bracket, Mounting                           |
| 8       | 333-0133 | 1        | Signal, Audible                             |
| 9       | 812-0028 | 4        | Screw, Machine - Round Head (#4-40 x 5/16") |
| 10      | 870-0221 | 2        | Nut, Hex - With ET (#8-32)                  |
| 11      | 812-0059 | 6        | Screw, Machine - Round Head (#6-32 x 1/4")  |
| 12      | 518-0440 | 1        | Ring, Locking                               |



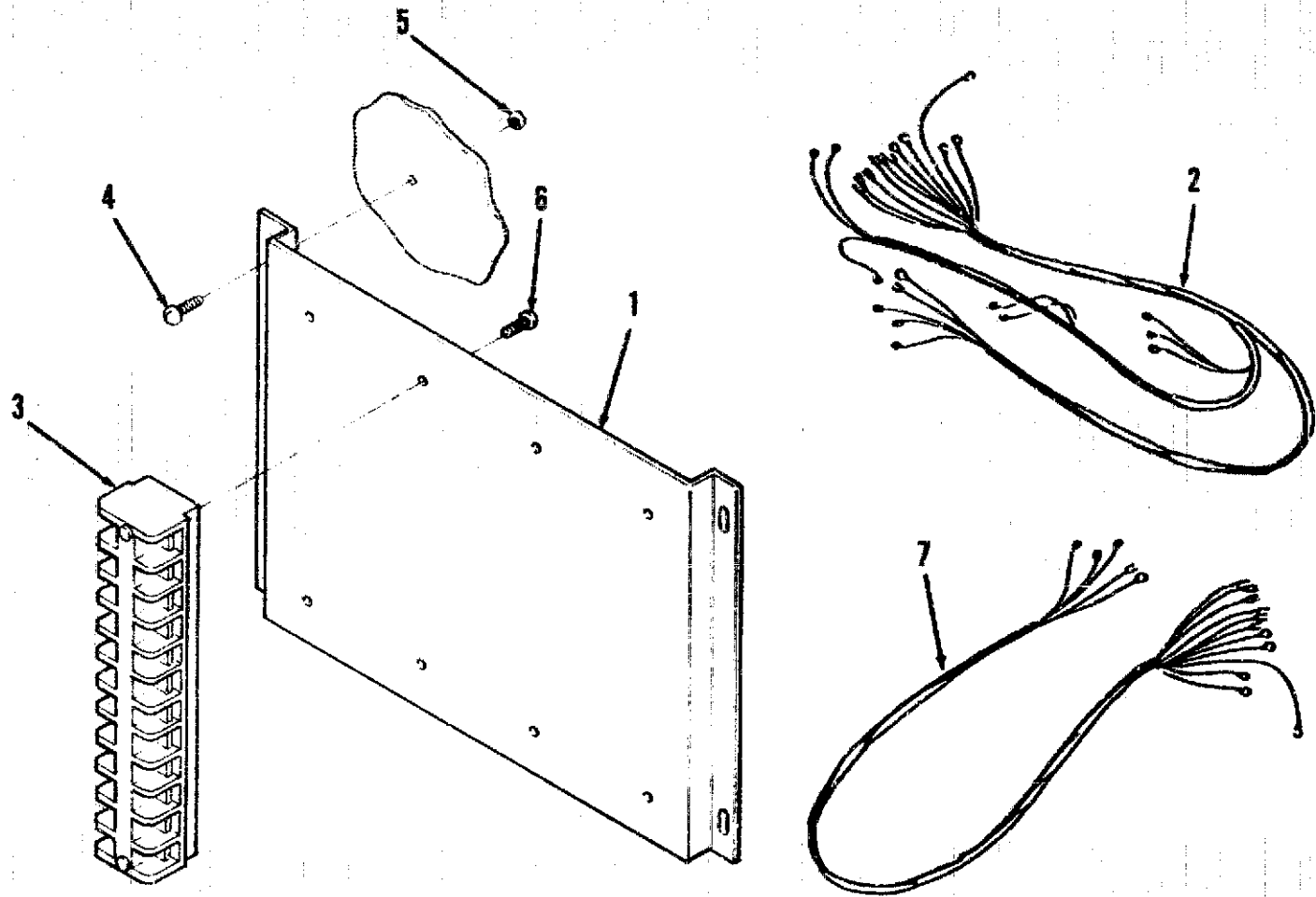
# Auxiliary Terminal Block



920A

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                                 | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                                        |
|---------|----------|----------|------------------------------------------------------------------|---------|----------|----------|-------------------------------------------------------------------------|
| 1       | 332-3107 | 3        | Block, Terminal (Also available as Newage part number E00-10005) | 4       | 870-0221 | 3        | Nut, Hex - With IT (#8-32)                                              |
| 2       | 338-2491 | 1        | Harness, Wiring - AC                                             | 5       | 850-0025 | 3        | Washer, Lock - Spring (#8)                                              |
| 3       | 812-0085 | 3        | Screw, Machine - Round Head (#8-32 x 1-1/8")                     | 6       | 232-3536 | 1        | Base, Block - Terminal (Also available as Newage part number 130-20102) |

## Paralleling Interconnect Terminal Blocks

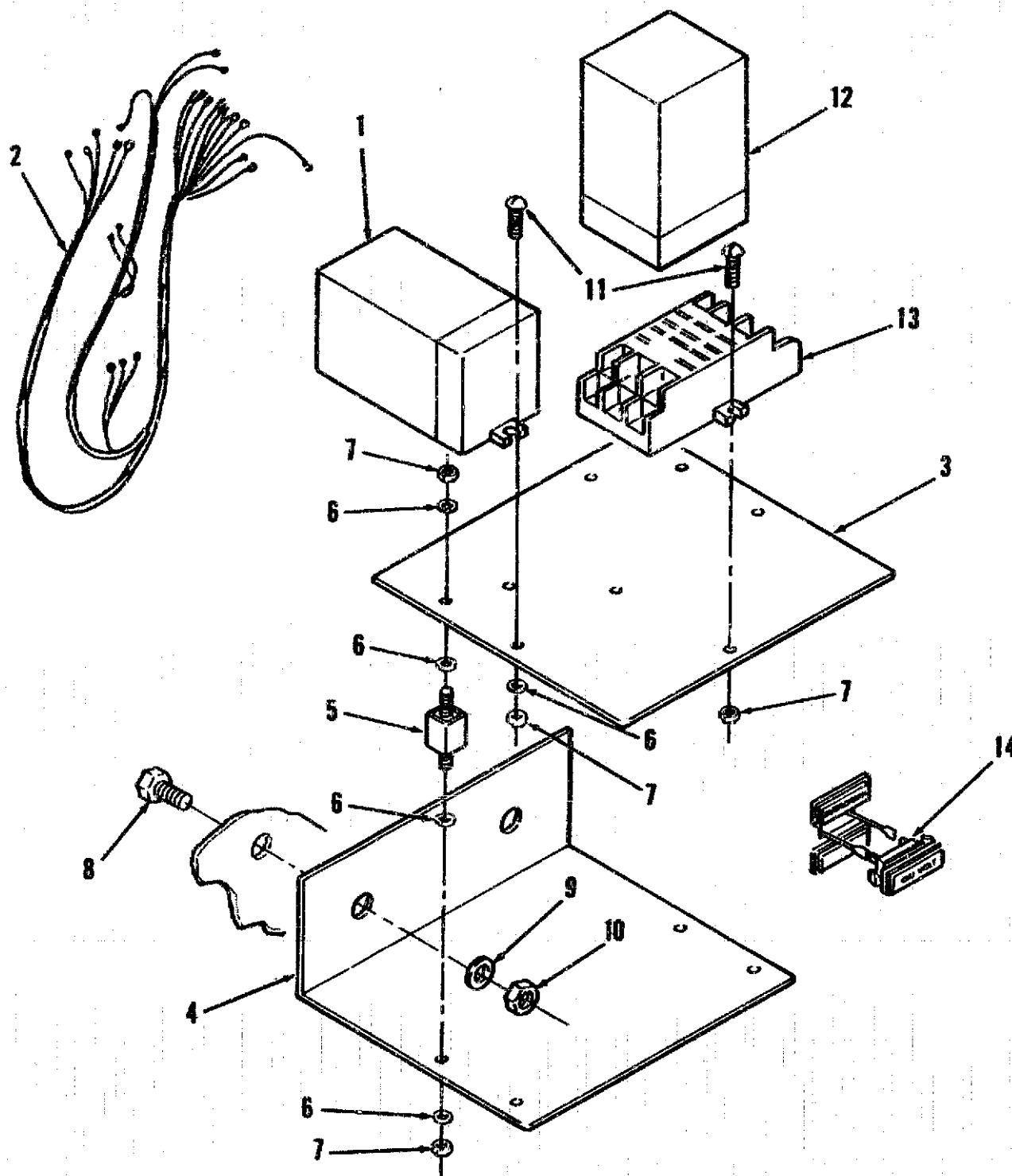


921A

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                   |
|---------|----------|----------|----------------------------------------------------|
| 1       | 319-1137 | 1        | Panel, Mounting                                    |
| 2       | 338-2590 | 1        | Harness, Paralleling<br>(Includes Terminal Blocks) |
| 3       | 332-2315 | 4        | Block, Terminal                                    |
| 4       | 813-0100 | 4        | Screw, Machine - Round Head<br>(#10-32 x 1/2")     |

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                            |
|---------|----------|----------|---------------------------------------------|
| 5       | 870-0131 | 4        | Nut, Hex - With ET (#10-32)                 |
| 6       | 812-0084 | 8        | Screw, Machine - Round Head<br>(#8-32 x 1") |
| 7       | 338-2172 | 1        | Harness, Wiring - Governor<br>(Shielded)    |

# Over/Under Voltage Relay

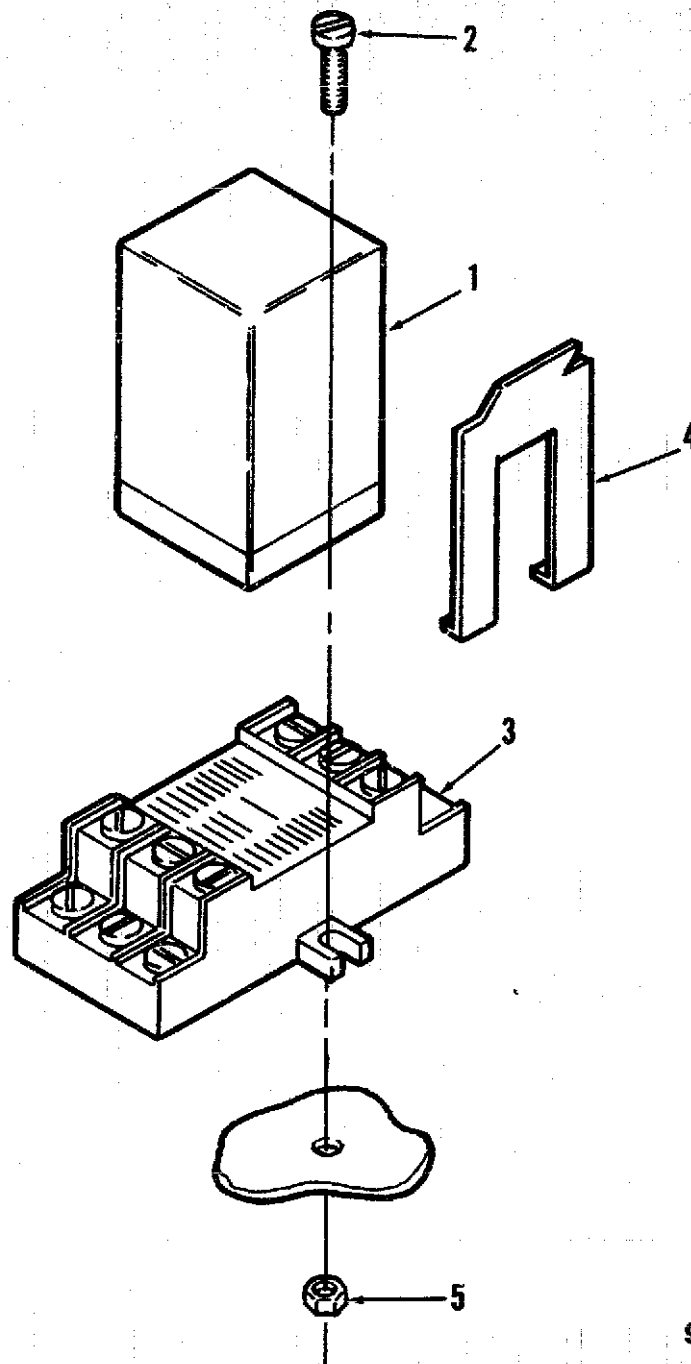


931A

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                  |
|---------|----------|----------|---------------------------------------------------|
| 1       | 307-2552 | 1        | Relay, Voltage - Over/Under (A17)                 |
| 2       | 338-2123 | 1        | Harness, Wiring - Over/Under Voltage              |
| 3       | 301-9933 | 1        | Plate, Mounting                                   |
| 4       | 301-8987 | 1        | Bracket, Mounting                                 |
| 5       | 402-0354 | 4        | Mount, Shock                                      |
| 6       | 856-0002 | 18       | Washer, Lock - ET (#8)                            |
| 7       | 860-0008 | 12       | Nut, Hex (#8-32)                                  |
| 8       | 821-0017 | 2        | Screw, Locking - Hex Washer Head (5/16-18 x 1/2") |

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                           |
|---------|-------------|----------|--------------------------------------------|
| 9       | 850-0045    | 2        | Washer, Lock - Spring (5/16")              |
| 10      | 862-0014    | 2        | Nut, Hex (5/16-18)                         |
| 11      | 812-0082    | 4        | Screw, Machine - Round Head (#8-32 x 3/4") |
| 12      | 307-1911    | 1        | Relay, Time Delay (.1 to 10 Seconds) (K17) |
| 13      | 323-0804    | 1        | Socket, Relay                              |
| 14      | 322-0384-09 | 1        | Light, Indicator - Marked "O/U VOLT"       |

# Shutdown Relay

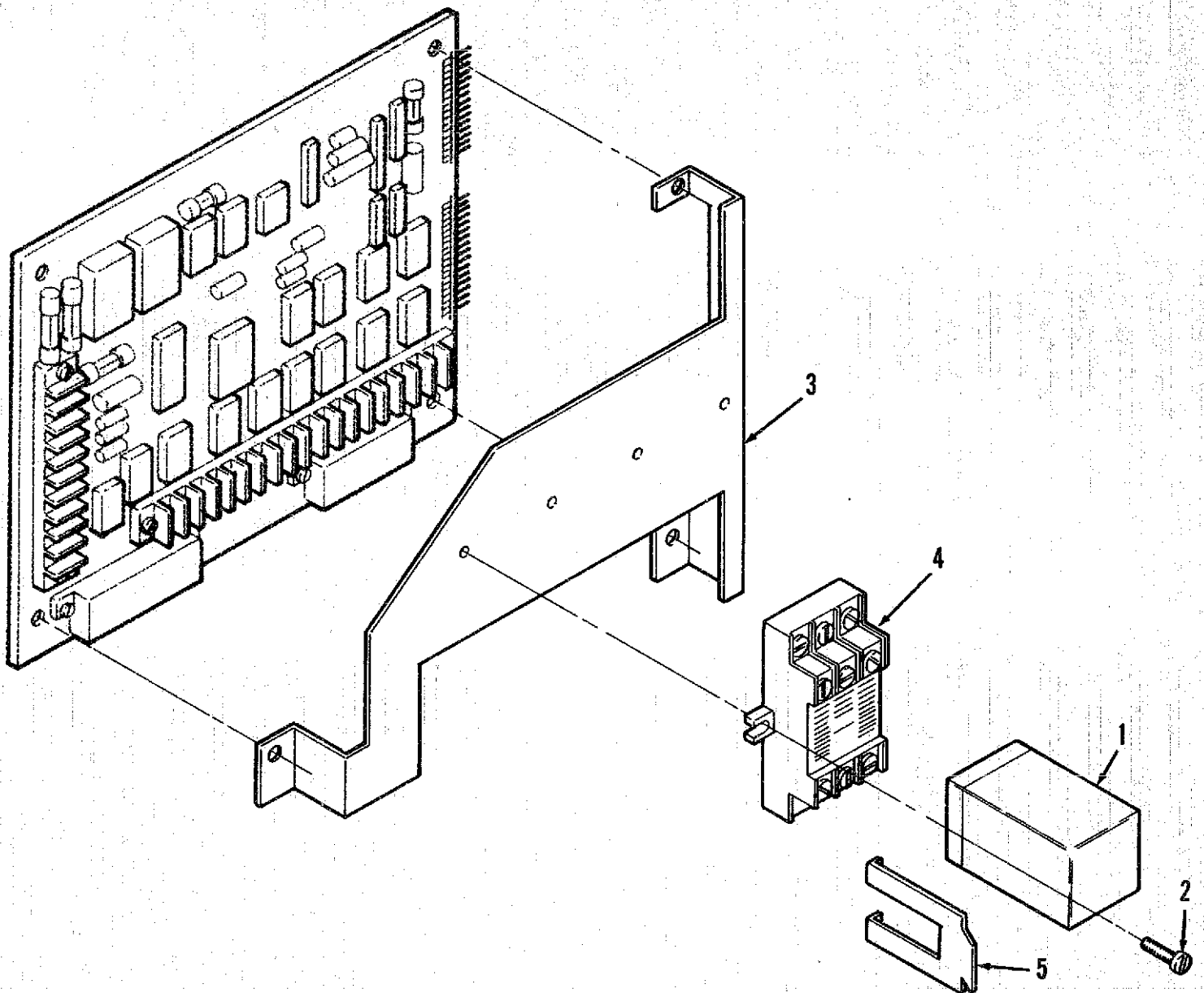


927A

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                           |
|---------|----------|----------|--------------------------------------------|
| 1       | 307-1056 | 1        | Relay, Shutdown (K14)                      |
| 2       | 812-0066 | 2        | Screw, Machine - Round Head (#6-32 x 3/4") |

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION        |
|---------|----------|----------|-------------------------|
| 3       | 323-0804 | 1        | Socket, Relay           |
| 4       | 307-1987 | 2        | Holddown, Relay         |
| 5       | 870-0183 | 2        | Nut, Hex - With ET (#6) |

# Run Relay



577B

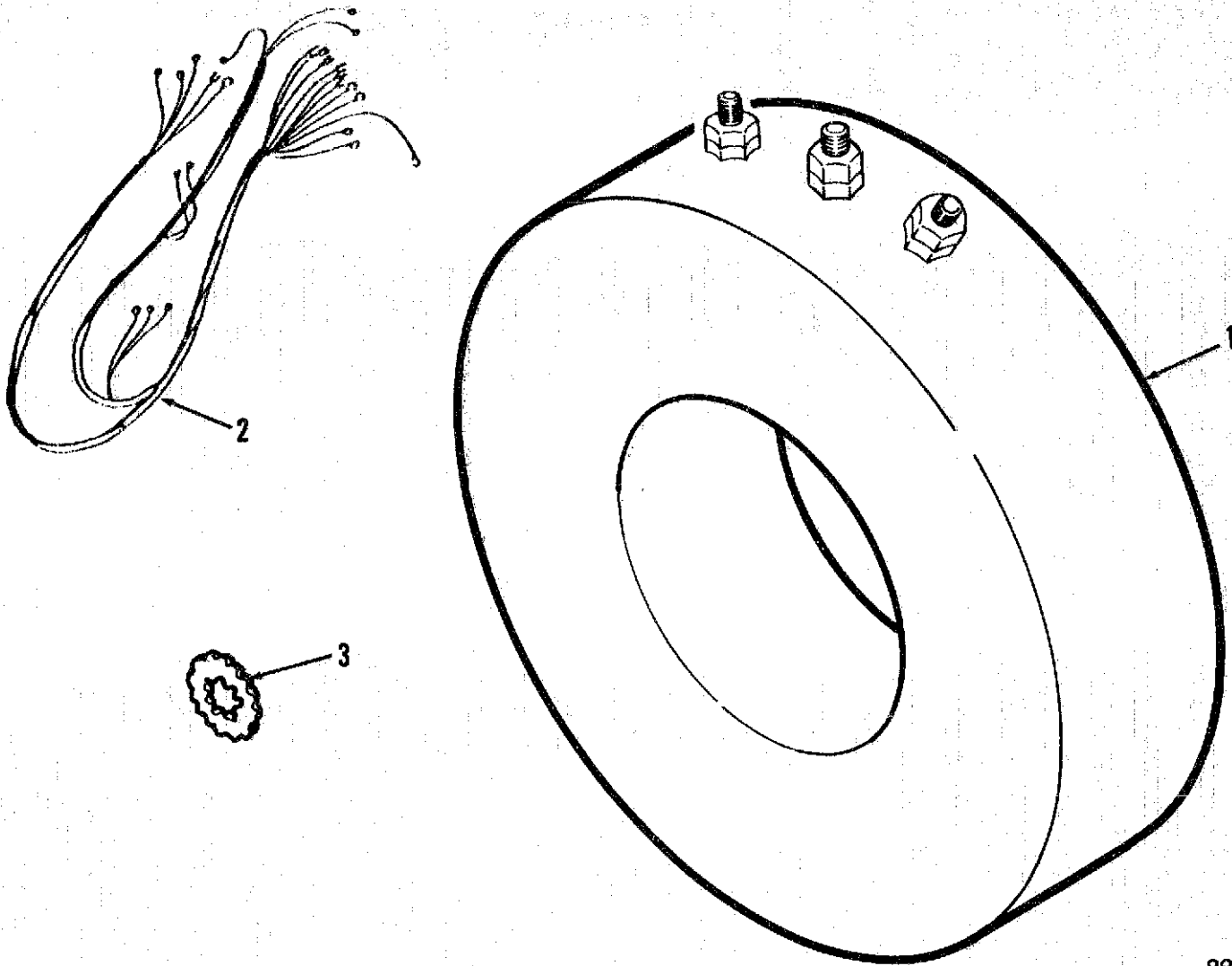
| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                        |
|---------|----------|----------|---------------------------------------------------------|
| 1       | 307-1056 | 1        | *Relay, Run (K11)                                       |
| 2       | 815-0388 | 2        | *Screw, Pan Head - Cross Recessed Thread (#6-32 x 1/2") |
| 3       | 319-0447 | 1        | Bracket, Mounting - Relay                               |

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION |
|---------|----------|----------|------------------|
| 4       | 323-0804 | 1        | *Socket, Relay   |
| 5       | 307-1987 | 2        | *Holddown, Relay |

\* - Quantities listed are for one mounted relay.



# Current Transformer

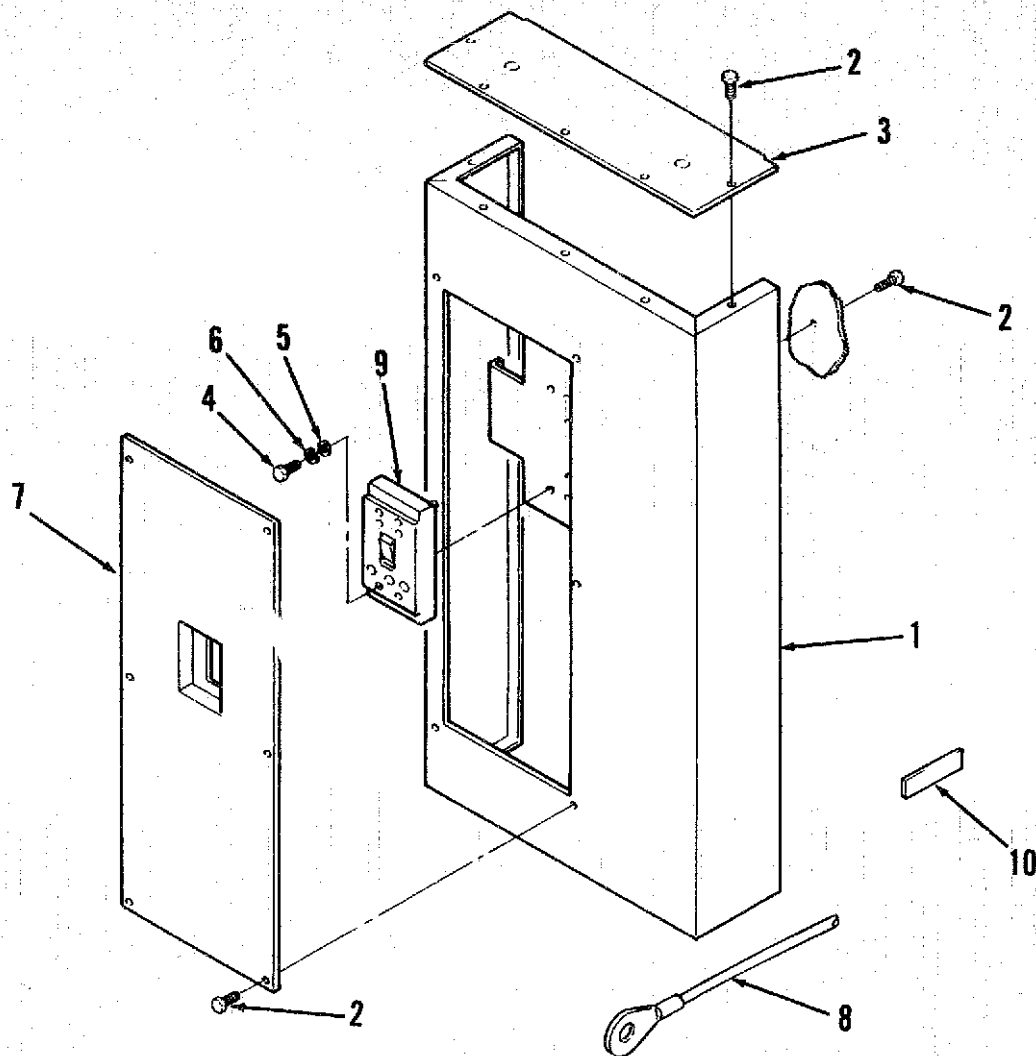


882A

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                        |
|---------|-------------|----------|-----------------------------------------|
| 1       |             |          | Transformer, Current (CT21, CT22, CT23) |
|         | 302-1794-10 | 3        | Ratio 600/5                             |
|         | 302-1794-11 | 3        | Ratio 750/5                             |
|         | 302-1794-12 | 3        | Ratio 1000/5                            |

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                |
|---------|----------|----------|-------------------------------------------------|
| 2       | 338-1980 | 1        | Harness, Wiring - Current Transformer           |
| 3       | 856-0008 | 2        | Washer, Locking - EIT (5/16") (Grounding Wires) |

# **Circuit Breaker (UL Approved)**



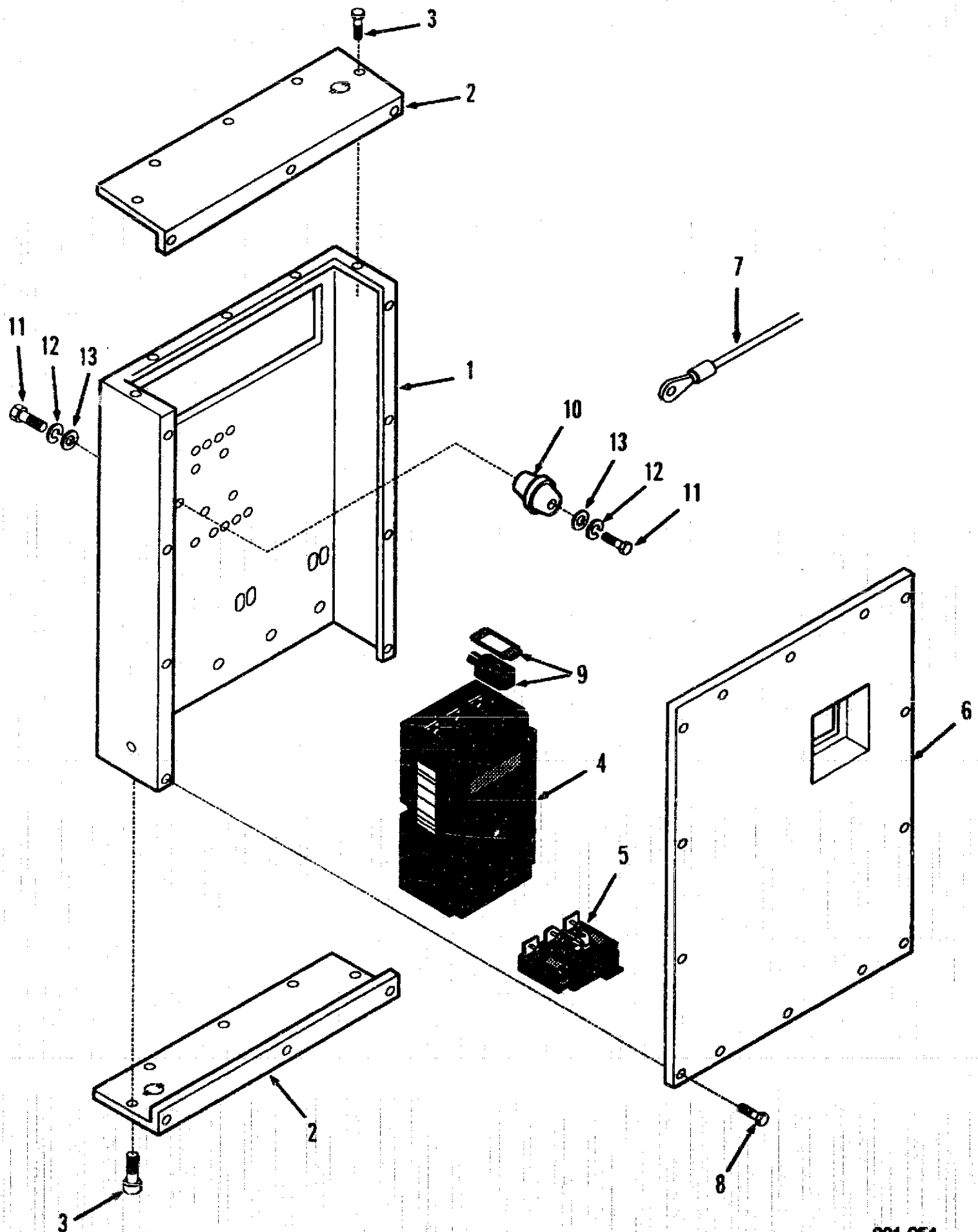
922A

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                    | REF NO.     | PART NO. | QTY USED | PART DESCRIPTION                                                                                              |
|---------|----------|----------|-----------------------------------------------------|-------------|----------|----------|---------------------------------------------------------------------------------------------------------------|
| 1       | 301-9654 | 1        | Box, Breaker - Circuit                              | 9           |          |          | Breaker, Circuit (CB21)                                                                                       |
| 2       | 821-0010 | 22       | Screw, Locking - Hex Washer Head (1/4-20 x 1/2")    |             |          |          | <b>Standard</b>                                                                                               |
| 3       | 301-9653 | 2        | Panel, Box                                          | 320-1459-04 | 1        |          | 100 Amp                                                                                                       |
| 4       |          |          | Screw - Breaker Mounting                            | 320-1460-06 | 1        |          | 250 Amp                                                                                                       |
|         | 812-0157 | 4        | Machine - Round Head (1/4-20 x 1-3/4")              | 320-1460-08 | 1        |          | 350 Amp                                                                                                       |
|         | 812-0094 | 4        | Machine - Round Head (#8-32 x 3-1/2")               | 320-1460-12 | 1        | *        | 600 Amp                                                                                                       |
|         | 800-0031 | 4        | Cap - Hex Head (5/16-18 x 1-1/2")                   | 320-1461-07 | 1        | *        | 700 Amp                                                                                                       |
| 5       |          |          | Washer, Flat - Breaker Mounting                     | 320-1461-08 | 1        | *        | 800 Amp                                                                                                       |
|         | 526-0108 | 4        | 1/4"                                                | 320-1461-09 | 1        | *        | 1000 Amp                                                                                                      |
|         | 526-0048 | 4        | #8                                                  |             |          |          | <b>With Auxiliary Contacts</b>                                                                                |
|         | 526-0115 | 4        | 5/16"                                               | 320-1464-11 | 1        | *        | 500 Amp                                                                                                       |
| 6       |          |          | Washer, Lock - Spring - Breaker Mounting            | 320-1464-12 | 1        | *        | 600 Amp                                                                                                       |
|         | 850-0040 | 4        | 1/4"                                                | 320-1465-09 | 1        | *        | 1000 Amp                                                                                                      |
|         | 850-0025 | 4        | #8                                                  |             |          |          | <b>With Shunt Trip</b>                                                                                        |
|         | 850-0045 | 4        | 5/16"                                               | 320-1473-07 | 1        | *        | 700 Amp                                                                                                       |
| 7       |          |          | Cover, Box                                          | 320-1473-08 | 1        | *        | 800 Amp                                                                                                       |
|         | 301-9652 | 1        | 1-1/4" x 3" Circuit Breaker Opening                 | 320-1473-10 | 1        | *        | 1200 Amp                                                                                                      |
|         | 319-0767 | 1        | 2-7/8" x 3-5/8" Circuit Breaker Opening             |             |          |          | <b>With Auxiliary Contacts and Shunt Trip</b>                                                                 |
|         | 301-9651 | 1        | 3-1/2" x 4-1/4" Circuit Breaker Opening             | 320-1492-12 | 1        | *        | 600 Amp                                                                                                       |
| 8       |          |          | Lead, Breaker - Circuit (Quantity Used as Required) | 320-1493-08 | 1        | *        | 800 Amp                                                                                                       |
|         | 226-3371 | 1        | 40" - 1/2" Eyelet                                   | 10          | 91-0002  | 1        | Strip, Copper (Used for Wrapping end of leads before securing to Circuit Breaker) (Quantity used as Required) |
|         | 226-3376 | 1        | 56"                                                 |             |          |          |                                                                                                               |

\* - Circuit Breakers with Interchangeable Trip

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# **Circuit Breaker (Non-UL Approved)**



001-054

# **Circuit Breaker (Non-UL Approved)**

| REF NO.     | PART NO. | QTY USED | PART DESCRIPTION                                      | REF NO.        | PART NO. | QTY USED | PART DESCRIPTION                                                                            |
|-------------|----------|----------|-------------------------------------------------------|----------------|----------|----------|---------------------------------------------------------------------------------------------|
| 1           | 319-1354 | 1        | Box, Breaker - Circuit                                | 6              |          |          | Cover, Box                                                                                  |
| 2           | 319-1355 | 2        | Panel, Box                                            | 319-1374       | 1        |          | Circuit Breaker Frame Size D400                                                             |
| 3           | 821-0010 | 10       | Screw, Self-Locking - Hex Washer Head (1/4-20 x 1/2") | 319-1373       | 1        |          | Circuit Breaker Frame Size D630 and D800                                                    |
| 4           |          |          | Frame - Circuit Breaker (Includes Mounting Hardware)  | 319-1356       | 1        |          | Circuit Breaker Frame Size D1250                                                            |
|             |          |          | <b>Three Pole Breakers</b>                            | 7              |          |          | Lead - Breaker Circuit (30") (Quantity Used as Required) Marked "LO"                        |
| 320-1751-01 | 1        |          | Frame Size D400 (For 320 and 400 Amp Trips)           | 226-3505-02    | 1        |          | Without Markings                                                                            |
| 320-1751-13 | 1        |          | Frame Size D630 (For 500 and 630 Amp Trips)           | 226-0893       | 1        |          |                                                                                             |
| 320-1751-25 | 1        |          | Frame Size D800 (For 800 Amp Trips)                   | 8 821-0010     | 14       |          | Screw, Self-Locking - Hex Washer Head (1/4-20 x 1/2")                                       |
| 320-1751-33 | 1        |          | Frame Size D1250 (For 1000 and 1250 Amp Trips)        | 9              |          |          | Lug Set - Circuit Breaker (Packaged in Sets - Two Lugs Per Set) (Quantity Used as Required) |
|             |          |          | <b>Four Pole Breakers</b>                             | 320-1755-03    | 1        |          | Circuit Breaker Frame Size D400                                                             |
| 320-1751-07 | 1        |          | Frame Size D400 (For 320 and 400 Amp Trips)           | 320-1755-04    | 1        |          | Circuit Breaker Frame Size D630                                                             |
| 320-1751-19 | 1        |          | Frame Size D630 (For 500 and 630 Amp Trips)           | 320-1755-05    | 1        |          | Circuit Breaker Frame Size D800                                                             |
| 320-1751-29 | 1        |          | Frame Size D800 (For 800 Amp Trips)                   | 320-1755-06    | 1        |          | Circuit Breaker Frame Size D1250                                                            |
| 320-1751-39 | 1        |          | Frame Size D1250 (For 1000 and 1250 Amp Trips)        | 10 332-2744-07 | 1        |          | *Standoff, Insulator                                                                        |
| 5           |          |          | Trip - Circuit Breaker (CB21)                         | 11 800-0050    | 2        |          | *Screw, Cap - Hex Head (3/8-16 x 1")                                                        |
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| 320-1751-05 | 1        |          | 320 Amp                                               | 13 526-0009    | 2        |          | *Washer, Flat (7/32")                                                                       |
| 320-1751-06 | 1        |          | 400 Amp                                               |                |          |          |                                                                                             |
| 320-1751-17 | 1        |          | 500 Amp                                               |                |          |          |                                                                                             |
| 320-1751-18 | 1        |          | 630 Amp                                               |                |          |          |                                                                                             |
| 320-1751-26 | 1        |          | 800 Amp                                               |                |          |          |                                                                                             |
| 320-1751-37 | 1        |          | 1000 Amp                                              |                |          |          |                                                                                             |
| 320-1751-38 | 1        |          | 1250 Amp                                              |                |          |          |                                                                                             |
|             |          |          | <b>Four Pole Breakers</b>                             |                |          |          |                                                                                             |
| 320-1751-11 | 1        |          | 320 Amp                                               |                |          |          |                                                                                             |
| 320-1751-12 | 1        |          | 400 Amp                                               |                |          |          |                                                                                             |
| 320-1751-23 | 1        |          | 500 Amp                                               |                |          |          |                                                                                             |
| 320-1751-24 | 1        |          | 630 Amp                                               |                |          |          |                                                                                             |
| 320-1751-32 | 1        |          | 800 Amp                                               |                |          |          |                                                                                             |
| 320-1751-43 | 1        |          | 1000 Amp                                              |                |          |          |                                                                                             |
| 320-1751-44 | 1        |          | 1250 Amp                                              |                |          |          |                                                                                             |

\* - Parts used on Three Pole Circuit Breakers

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