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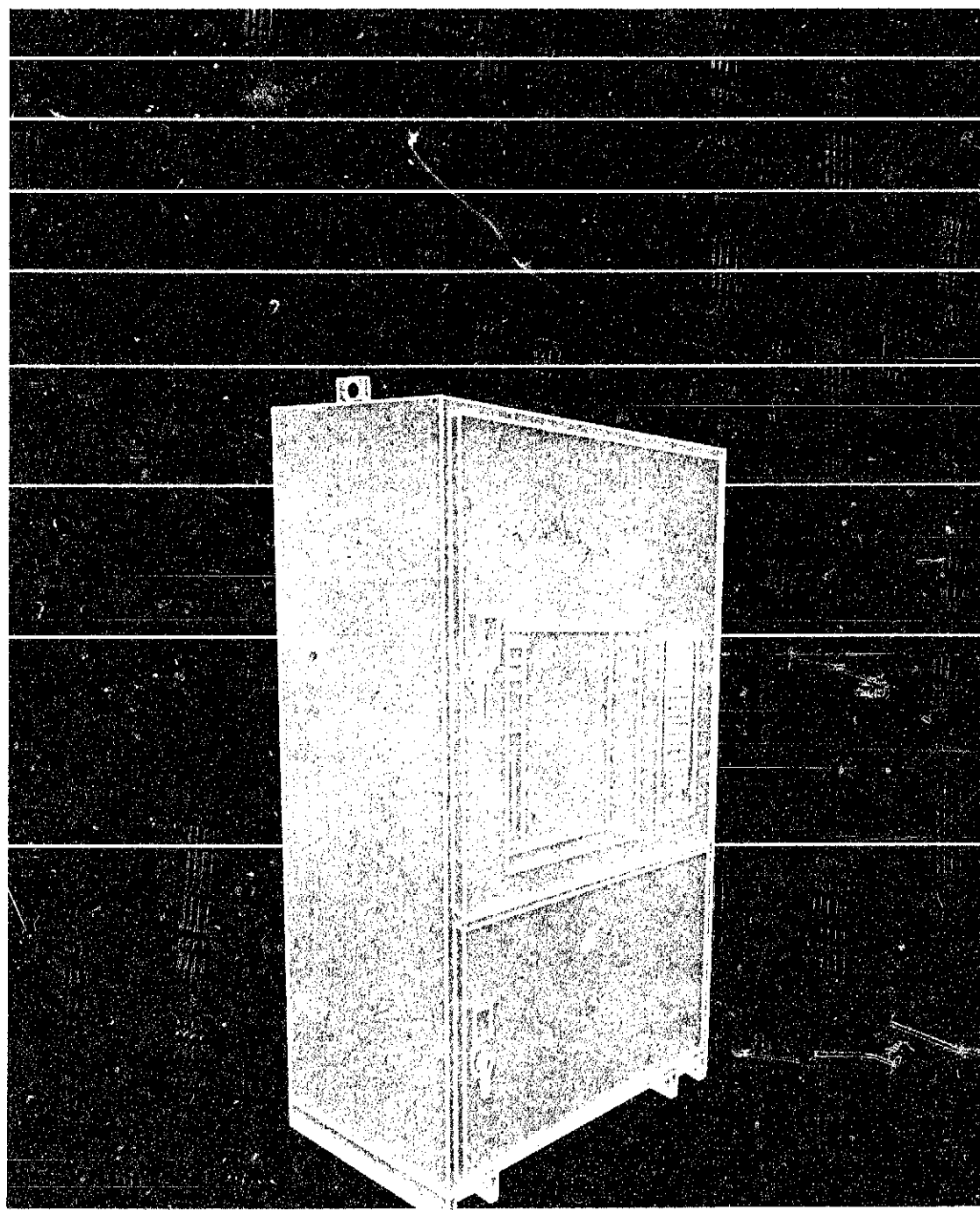


# Parts Catalog

**BT**

**1200/1600/2000/3000 Amp**

**BYPASS TRANSFER SWITCH**



Printed U.S.A.

962-0226 (Spec A) 4-93

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## Introduction

This catalog applies to the BT Bypass switches as indicated below. Each illustrated part is identified by a reference number corresponding to the same reference number in the parts list for that group. Parts illustrations are typical. Using the MODEL and SPEC NUMBER from the Bypass switch cabinet nameplate, select the parts that apply to your Bypass switch. Unless otherwise noted in the description or page heading, parts are interchangeable between models.

### Model Selection Table

|                        |  |                                                                              |  |
|------------------------|--|------------------------------------------------------------------------------|--|
| BT 1200 00000 A        |  |                                                                              |  |
| Bypass Switch Series   |  | Specification Letter                                                         |  |
|                        |  | Designates Major Manufacturing Changes                                       |  |
| Ampere Rating          |  | Specification Number                                                         |  |
| 1200, 1600, 2000, 3000 |  | Factory Code Designating a Combination of Accessories and Standard Equipment |  |

## Feature/Options

| <b>Feature Option</b> | <b>Feature Description</b>                   | <b>Feature Option</b> | <b>Feature Description</b>    |
|-----------------------|----------------------------------------------|-----------------------|-------------------------------|
| A021                  | Current Rating – 1200 Amps                   | K003                  | Battery Charger 10A 24V       |
| A022                  | Current Rating – 1600 Amps                   | L001                  | Aux Relay 24 VAC Coil         |
| A023                  | Current Rating – 2000 Amps                   | L002                  | Aux Relay Emergency Position  |
| A024                  | Current Rating – 3000 Amps                   | L003                  | Aux Relay Normal Position     |
| A028                  | Poles – 3                                    | L004                  | Aux Relay Emergency Source    |
| A029                  | Poles – 4                                    | L005                  | Aux Relay Normal Source       |
| A035                  | Application – Utility to Genset              | L101                  | Aux Relay 24 VDC Coil         |
| A036                  | Application – Utility to Utility             | L102                  | Aux Relay Emergency Position  |
| A041                  | System 1 Phase 2W or 3W                      | L103                  | Aux Relay Normal Position     |
| A042                  | System 3 Phase 3W or 4W                      | L104                  | Aux Relay Genset Start        |
| A046                  | Listing – UL                                 | L201                  | Aux Relay 12 VDC Coil         |
| A047                  | Certification – CSA                          | L202                  | Aux Relay Emergency Position  |
| A048                  | Listing – Not Applicable                     | L203                  | Aux Relay Normal Position     |
| A044                  | Frequency – 60 Hertz                         | L204                  | Aux Relay Genset Start        |
| A045                  | Frequency – 50 Hertz                         |                       |                               |
| B001                  | Cabinet type NEMA 1                          | M001                  | Signal Module                 |
| C015                  | Start Time Delay – 90 Seconds                | M003                  | Terminal Block – 30 Points    |
| C016                  | Control OV & O/U Hertz Src2                  | M007                  | Load Shed – From Emergency    |
| C017                  | Control OV & O/U Hertz Src1                  | N001                  | Auto/Manual Switch            |
| D001                  | Meters – None                                | N002                  | Terminal Block – Battery      |
| D002                  | Meters – Door Mounted                        | N005                  | Charger Alarm                 |
| J001                  | Clock – 7 Day Exerciser                      |                       | Terminal Block Src 1/2 Remote |
| J021                  | Program Transition 0.5 – 7.5<br>Second Delay | R021                  | Voltage – 208                 |
| J022                  | Program Transition 1 – 60<br>Second Delay    | R022                  | Voltage – 220                 |
| K001                  | Battery Charger 2A 12/24V                    | R023                  | Voltage – 240                 |
| K002                  | Battery Charger 10A 12V                      | R024                  | Voltage – 380                 |
|                       |                                              | R025                  | Voltage – 416                 |
|                       |                                              | R026                  | Voltage – 480                 |
|                       |                                              | R027                  | Voltage – 600                 |
|                       |                                              | R035                  | Voltage – 440                 |

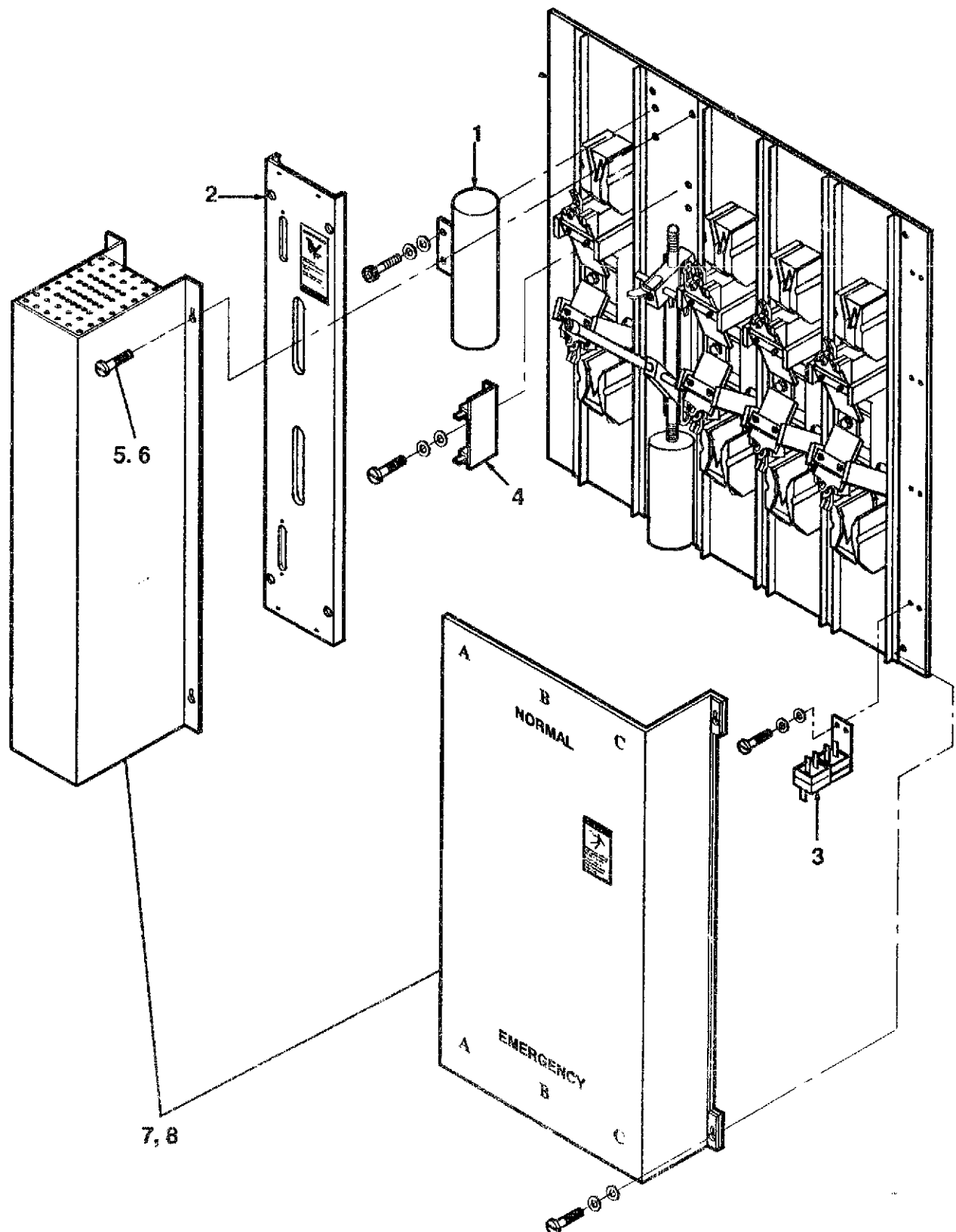
Feature Options can be determined by reading them off the nameplate or by accessing the following screen through the Distributor On-Line computer system. Note that the first digit typed on this screen is a code number corresponding to an individual Onan product (1=Engines, 2=Gensets, 5=Generator Ends, 6=LT's, 7=OT's/BT's) and that the spec number is always kept to the right and zero filled if the spec number is less than five digits.

**MAD2**  
**ITEM NO: 702835**

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|             |                                  |
|-------------|----------------------------------|
| <b>A015</b> | <b>260 Amps Continuous</b>       |
| <b>A029</b> | <b>4 Pole Switch for Program</b> |
| <b>A035</b> | <b>Utility to Genset</b>         |
| <b>A042</b> | <b>Three Phase (3 or 4 Wire)</b> |
| <b>A044</b> | <b>60 Hz Frequency</b>           |
| <b>A046</b> | <b>UL Listed</b>                 |

## Transfer Switch Assembly

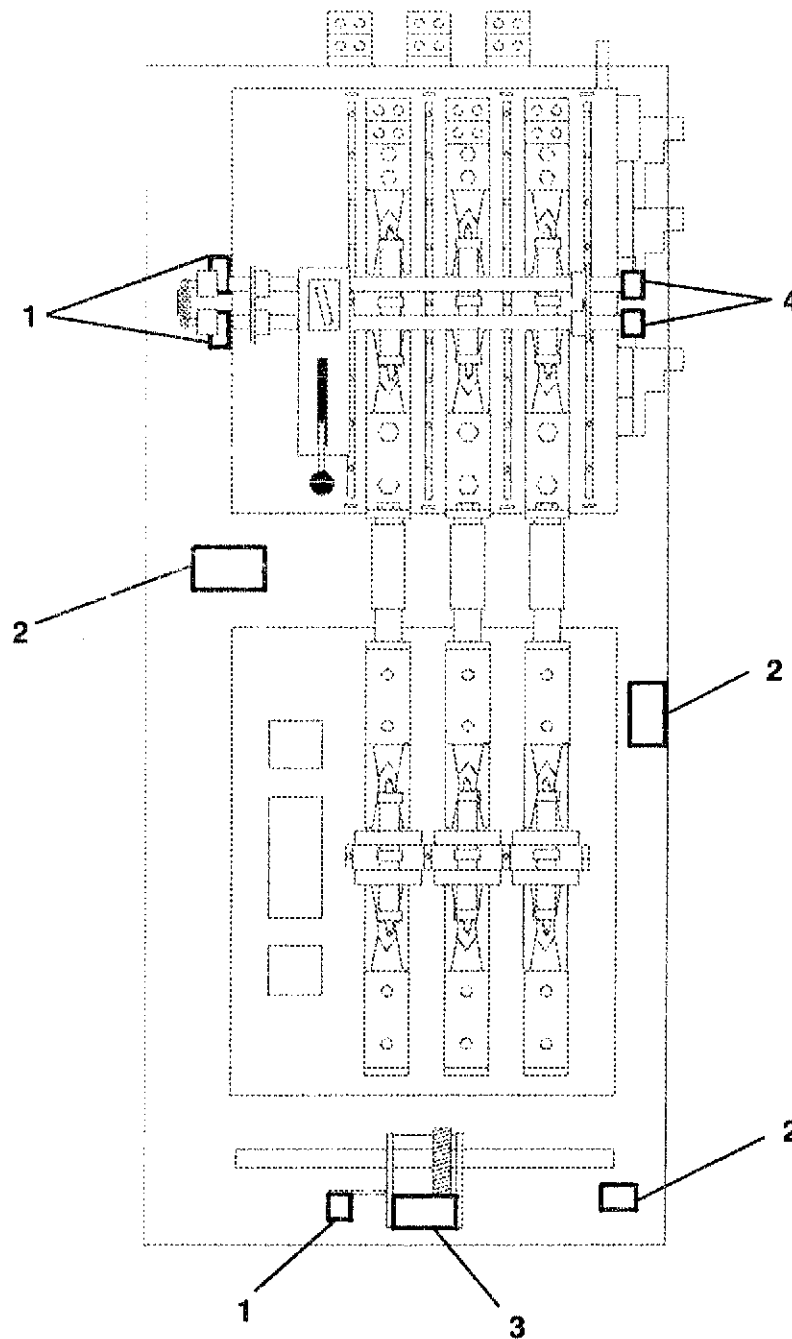




## Transfer Switch Assembly

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                        | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                   |
|---------|-------------|----------|---------------------------------------------------------|---------|-------------|----------|----------------------------------------------------|
| 1       |             |          | Solenoid (K1, K2)<br>1200 Amp                           |         | 306-3622-12 | 1        | A4A                                                |
|         | 306-3623-04 | 2        | 208/220/240 Volt                                        |         | 306-3622-15 | 3        | SN, SN2, SN0                                       |
|         | 306-3623-16 | 2        | 380-416 Volt                                            |         | 306-3622-16 | 4        | SE, SE2, SE0, SE0B                                 |
|         | 306-3623-05 | 2        | 440/480 Volt                                            |         | 306-3622-17 | 1        | A3A                                                |
|         | 306-3623-19 | 2        | 600 Volt                                                | 5       | 815-0403    | 4        | Screw, Machine – Hex Washer<br>Head (#8-32 x 5/16) |
|         |             |          | 1600/2000/3000 Amp                                      |         |             |          | 1600/2000/3000 Amp                                 |
|         | 306-3623-14 | 2        | 208/220/240 Volt                                        | 6       | 815-0504    | 4        | Screw (#6-32 x 3/8) 1200 Amp                       |
|         | 306-3623-18 | 2        | 380 – 416 Volt                                          | 7       |             |          | Cover, Switch – Transfer<br>(Includes Label)       |
|         | 306-3623-15 | 2        | 440/480 Volt                                            |         | 306-4122-07 | 1        | 1200 Amp (Except 600 Volt)                         |
|         | 306-3623-20 | 2        | 600 Volt                                                |         | 306-4122-08 | 1        | 1200 Amp (600 Volt)                                |
| 2       |             |          | Cover, Solenoid (Includes<br>Silkscreen)                |         | 306-4122-09 | 1        | 1600/2000 Amp (Except 60<br>Volt)                  |
|         | 319-1614    | 1        | 1200 Amp                                                |         | 306-4122-10 | 1        | 1600/2000 Amp (600 Volt)                           |
|         | 319-1615    | 1        | 1600 – 3000 Amp                                         |         | 306-4122-11 | 1        | 3000 Amp (Except 600<br>Volt)                      |
| 3       | 306-3624-01 | 4        | Rectifier Assembly                                      |         | 306-4122-12 | 1        | 3000 Amp (600 Volt)                                |
| 4       |             |          | Switch Assembly (Listed by wir<br>ing diagram location) | 8       |             |          | Cover, Pole – Neutral (Includes<br>Label)          |
|         |             |          | 1200 Amp                                                |         | 306-4121-02 | 1        | 1200 Amp (4 Pole Only)                             |
|         | 306-3622-01 | 1        | A3A                                                     |         | 306-4129-02 | 1        | 1600/2000/3000 Amp<br>(4 Pole Only)                |
|         | 306-3622-03 | 4        | A4A, SN, SN2, SN0                                       |         |             |          |                                                    |
|         | 306-3622-14 | 4        | SE, SE2, SE0A, SE0B                                     |         |             |          |                                                    |
|         |             |          | 1600 – 3000 Amp                                         |         |             |          |                                                    |

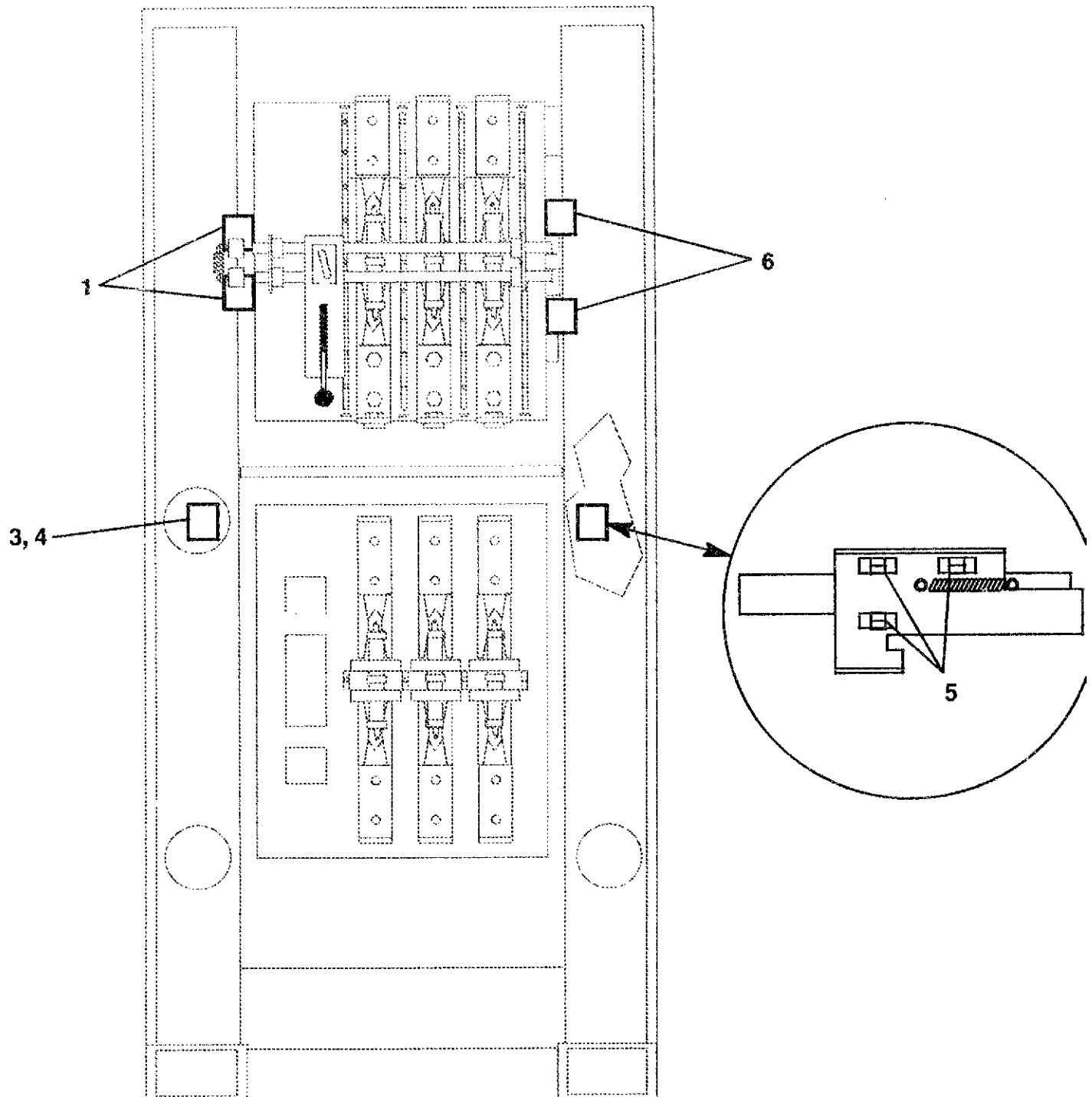
## Bypass Switch Assembly (1200 Amp)



**3 Pole Switch Illustrated**

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                             | REF NO.     | PART NO. | QTY USED | PART DESCRIPTION                   |
|---------|-------------|----------|----------------------------------------------|-------------|----------|----------|------------------------------------|
| 1       | 306-4030-01 | 3        | Switch, Solenoid – Interlock (CBE, CBC, CBN) | 5           |          |          | Cover, Switch – Bypass (Not Shown) |
| 2       | 306-4030-04 | 3        | Switch (AA, AI, AT)                          | 306-4123    | 1        |          | Bypass Switch                      |
| 3       | 306-4030-07 | 2        | Switch (ACU, ACD)                            | 306-4121-03 | 1        |          | Neutral Pole                       |
| 4       | 306-4030-05 | 4        | Switch (AB31, 32, 41, 42)                    |             |          |          |                                    |

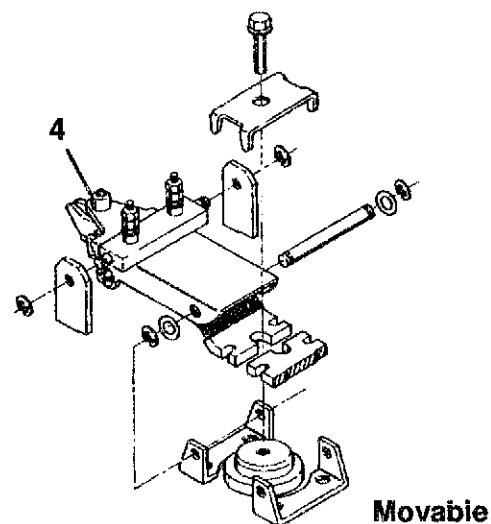
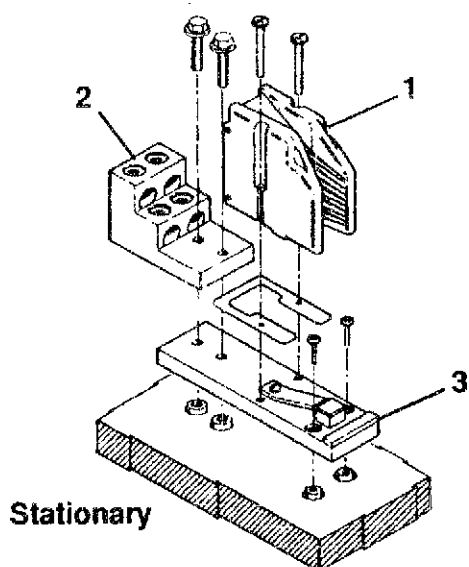
## Bypass Switch Assembly (1600/2000/3000 Amp)



**3 Pole Switch Illustrated**

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                        | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                  |
|---------|-------------|----------|-----------------------------------------|---------|-------------|----------|-----------------------------------|
| 1       | 306-4030-03 | 2        | Switch, Solenoid - Interlock (CBE, CBN) | 6       | 306-4030-05 | 4        | Switch (AB31, 32, 41, 42)         |
| 3       | 306-4030-02 | 1        | Switch (CBC)                            | 7       |             |          | Cover, Switch - Bypass (Nc Shown) |
| 4       | 306-4030-04 | 1        | Switch (CH)                             |         | 306-4128    | 1        | Bypass Switch                     |
| 5       | 306-4030-06 | 6        | Switch (AA1, AA2, AI1, AI2, AT1, AT2)   |         | 306-4129-03 | 1        | Neutral Pole                      |

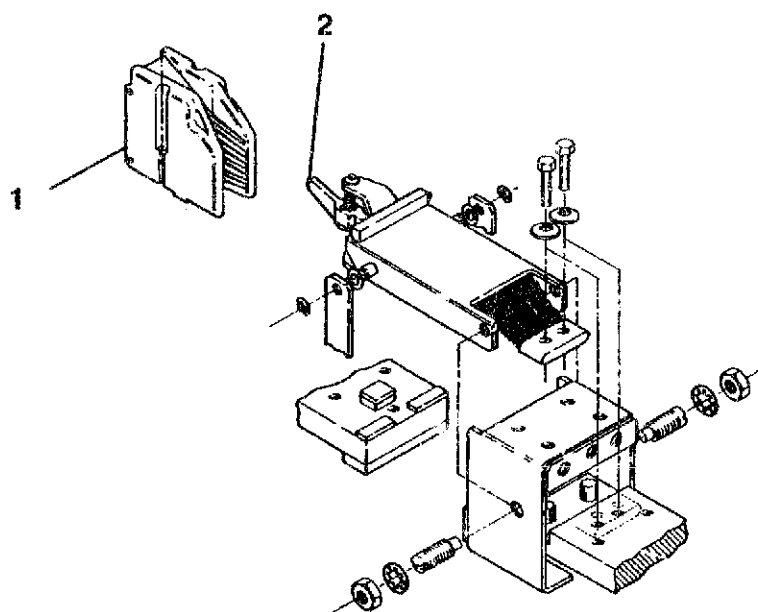
## Contacts (1200 Amp)



| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION             |
|---------|-------------|----------|------------------------------|
| 3       | 306-4124-01 | 1        | Chute, Arc                   |
| 4       | 306-4124-02 | 1        | Lug                          |
| 7       | 306-4124-03 | 1        | Contact Assembly, Stationary |

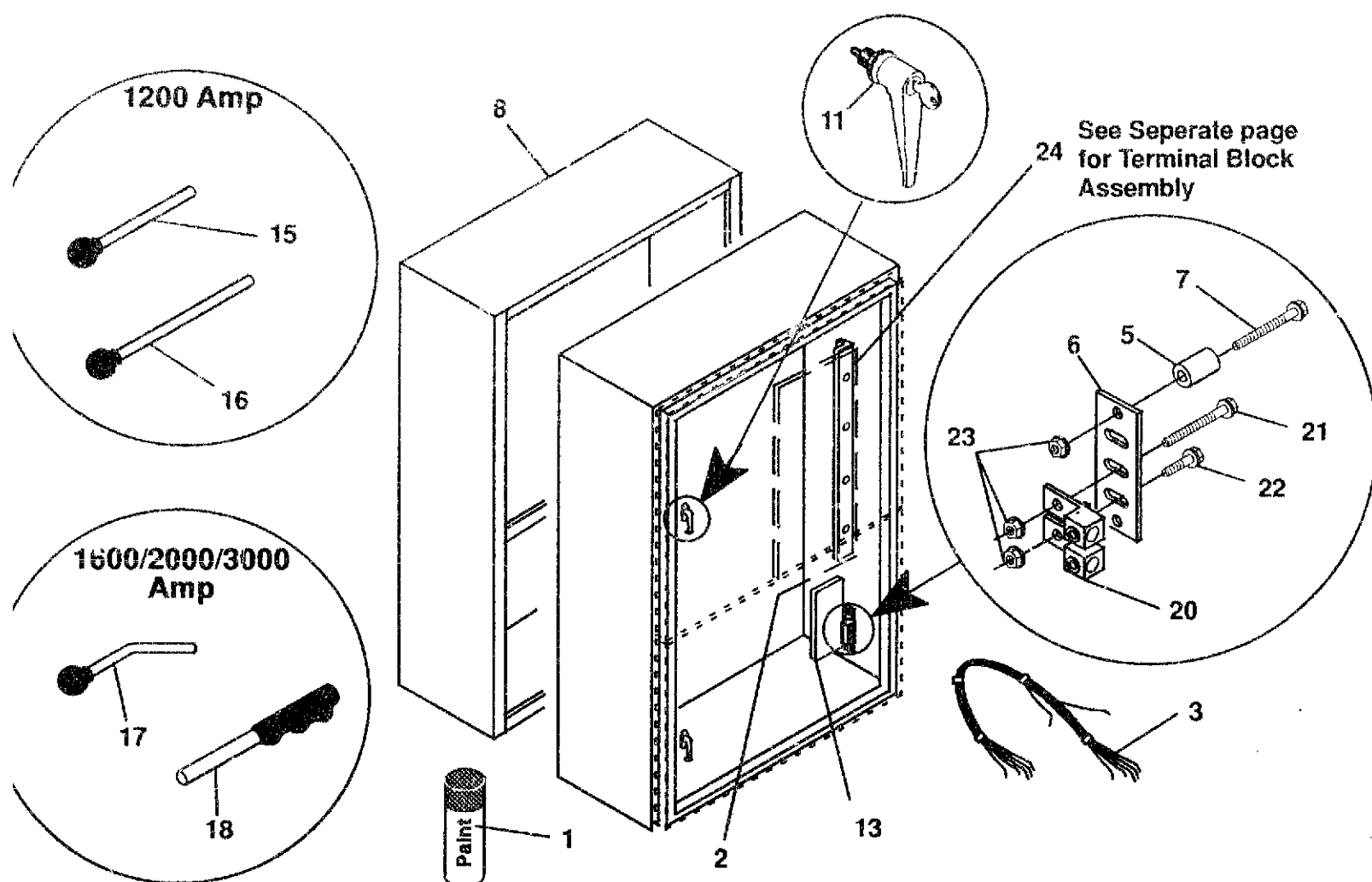
| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION          |
|---------|-------------|----------|---------------------------|
| 12      | 306-4124-04 | 1        | Contact Assembly, Movable |

# **Contacts** **(1600/2000/3000 Amp)**



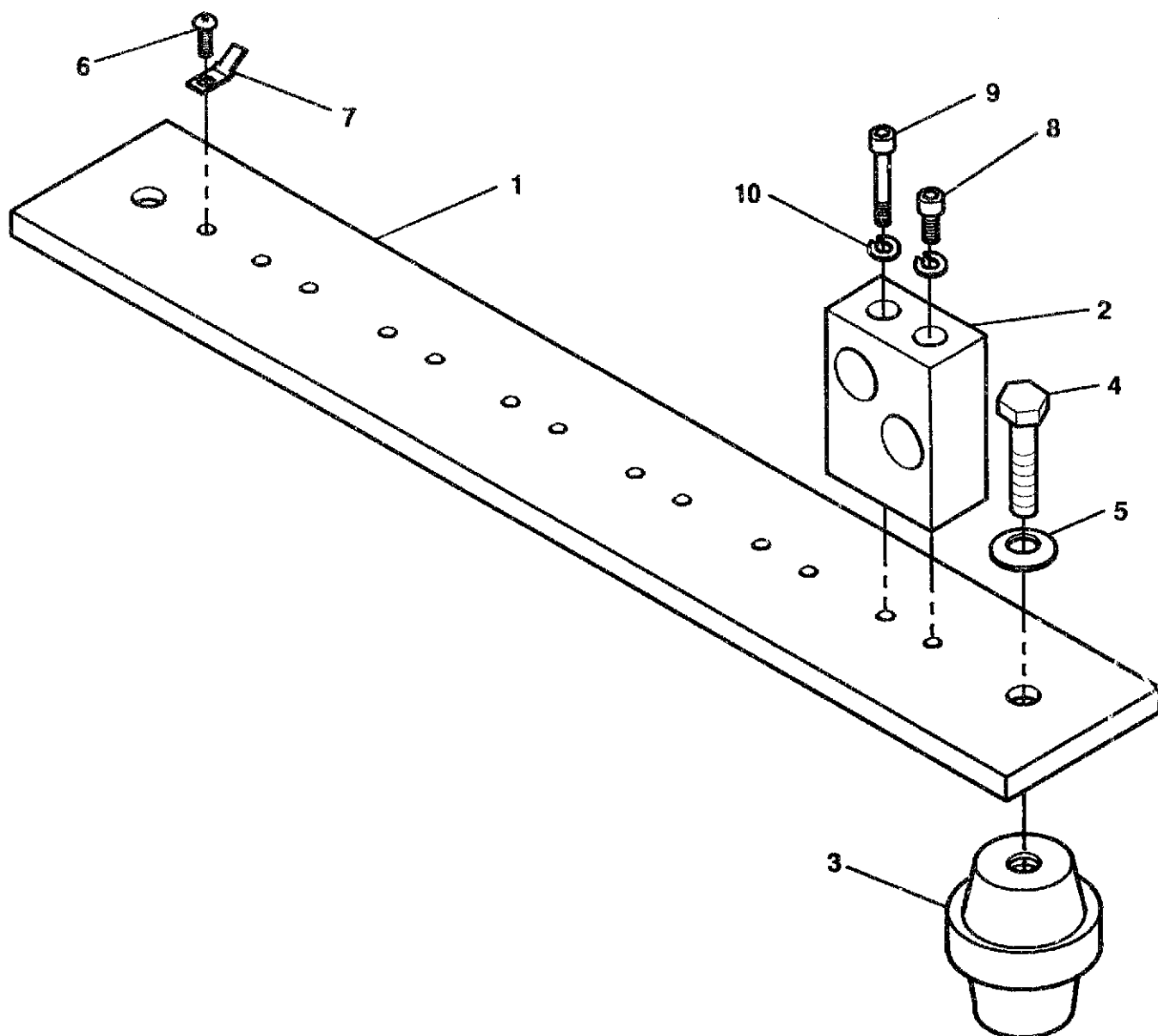
| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION          | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                       |
|---------|-------------|----------|---------------------------|---------|-------------|----------|----------------------------------------|
| 1       | 306-4127-01 | 1        | Chute, Arc                | 3       | 306-4127-02 | 1        | Contact Assembly, Stationary (Not Show |
| 2       | 306-4127-03 | 1        | Contact Assembly, Movable |         |             |          |                                        |

## Miscellaneous Control Cabinet Parts



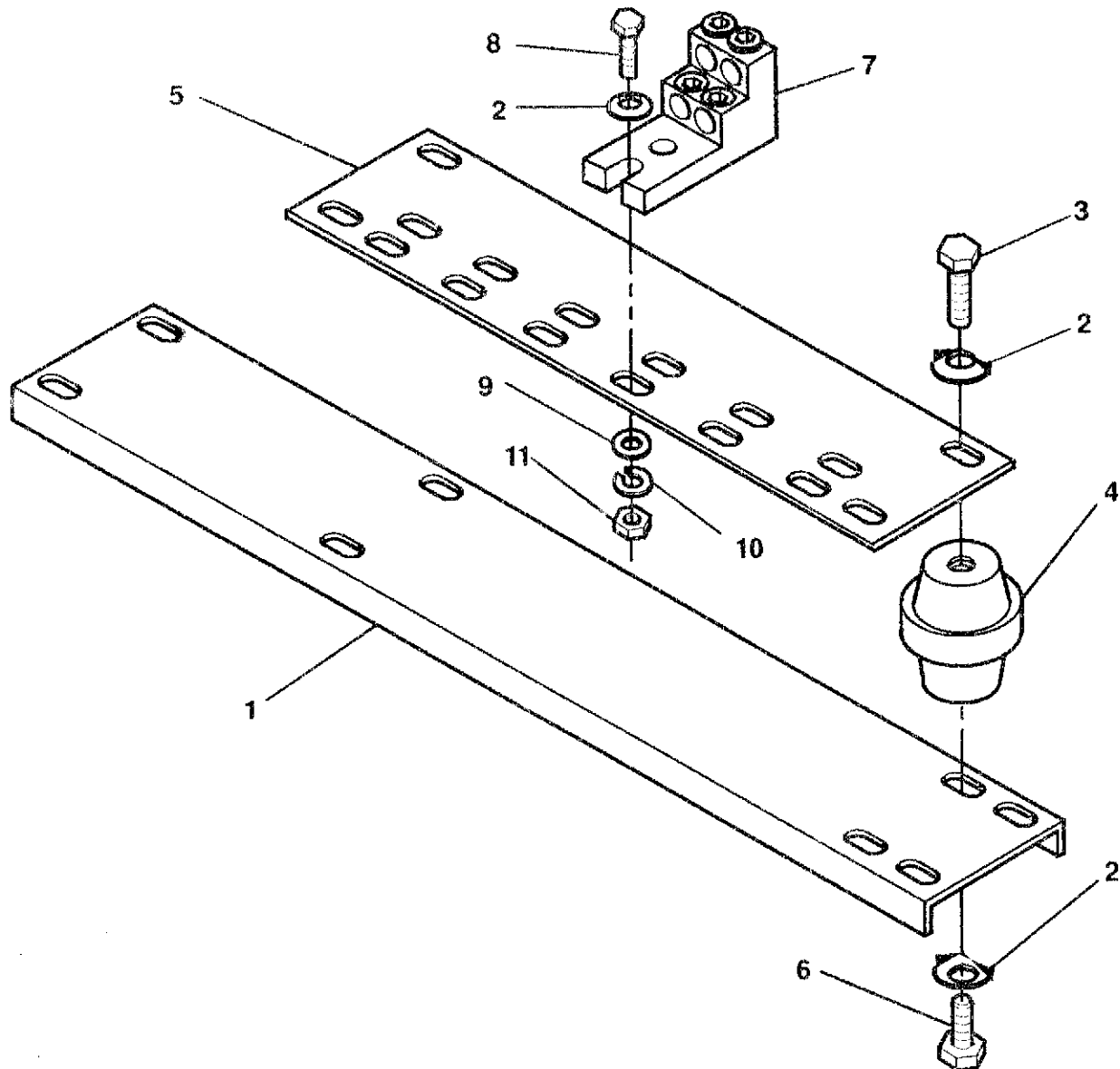
| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                    | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                |
|---------|-------------|----------|-------------------------------------|---------|-------------|----------|---------------------------------|
| 1       | 525-0208    | 1        | Paint - Gray                        | 9       | 306-3755-01 | 1        | Cover, Load (Not Shown)         |
| 2       | 306-4134    | 1        | Shield, Bus - Power (1200 Amp Only) | 10      | 307-3756-01 | 1        | Cover, Load (Not Shown)         |
| 3       |             |          | Harness, Wiring - Cabinet Bypass    | 11      | 306-4120    | 2        | Handle, Cabinet (Includes Key)  |
|         | 338-3042-01 | 1        | 1200 Amp                            | 13      | 319-1490    | 1        | Bracket, Mounting               |
|         | 338-3042-02 | 1        | 1600/2000/3000 Amp                  | 14      |             |          | Handle, Crank (Not Shown)       |
|         |             |          | Transfer                            |         | 306-4119-01 | 1        | 1200 Amp                        |
|         | 338-3043-01 | 1        | 1200 Amp                            |         | 306-4119-02 | 1        | 1600/2000/3000 Amp              |
|         | 338-3043-02 | 1        | 1600/2000/3000 Amp                  | 15      | 306-4117-01 | 1        | Handle                          |
| 4       |             |          | Spacer (Not Shown)                  | 16      | 306-4118-01 | 1        | Handle                          |
|         | 370-4062    | 2        | 1200 Amp                            | 17      | 306-4118-02 | 1        | Handle                          |
|         | 370-4061    | 3        | 1600/2000/3000 Amp                  | 18      | 306-4117-02 | 1        | Handle                          |
| 5       |             |          | Standoff, Ground                    | 20      |             |          | Lug, Solderless - Grounding Bar |
|         | 332-1348    | 2        | 1200 Amp                            |         | 332-2880    | 3        | 1200 Amp                        |
|         | 332-3169    | 2        | 1600/2000/3000 Amp                  |         | 332-2016    | 9        | 1600/2000/3000 Amp              |
| 6       |             |          | Connector, Bar - Neutral            | 21      |             |          | Screw, Locking - Flange         |
|         | 332-0772    | 1        | 1200 Amp                            |         | 821-0018    | 2        | 1200 Amp                        |
|         | 337-2595-01 | 1        | 1600/2000/3000 Amp                  |         | 821-0021    | 8        | 1600/2000/3000 Amp              |
| 7       |             |          | Screw, Mount - Ground Strap         | 22      |             |          | Screw, Locking - Flange         |
|         | 800-0009    | 2        | 1200 Amp                            |         | 821-0012    | 2        | 1200 Amp                        |
|         | 815-0667    | 2        | 1600/2000/3000 Amp                  |         | 821-0023    | 8        | 1600/2000/3000 Amp              |
| 8       |             |          | Adaptor (1200 Amp Only)             | 23      |             |          | Nut, Locking - Flange           |
|         | 306-4086    | 1        | 3 Pole                              |         | 870-0212    | 3        | 1200 Amp                        |
|         | 306-4087    | 1        | 4 Pole                              |         | 870-0257    | 9        | 1600/2000/3000 Amp              |
|         |             |          |                                     | 24      | 319-1633    | 1        | Bracket, Shield                 |

# **Bus Bar (1200 Amp)**



| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                  | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                              |
|---------|-------------|----------|---------------------------------------------------|---------|----------|----------|-----------------------------------------------|
| 1       | 337-2598-01 | 1        | Bar, Neutral                                      | 7       | 332-2834 | 1        | Terminal, Tab (.25)                           |
| 2       | 332-2660    | 6        | Lug, Solderless                                   | 8       | 822-0084 | 6        | Screw, Machine - Pan Head<br>(1/4-20 x 1/2)   |
| 3       | 332-2512    | 2        | Standoff, Insulator                               | 9       | 822-0091 | 6        | Screw, Machine - Pan Head<br>(1/4-20 x 1-1/2) |
| 4       | 800-0049    | 2        | Screw, Cap - Hex Head<br>(3/8-16 x 7/8)           | 10      | 850-0039 | 12       | Washer, Lock (1/4)                            |
| 5       | 851-0022    | 2        | Spring, Disc - Conical (3/8)                      |         |          |          |                                               |
| 6       | 815-0285    | 1        | Screw, Machine - Round Head<br>W/ET (#8-32 x 5/8) |         |          |          |                                               |

# **Bus Bar** **(1600/2000/3000 Amp)**



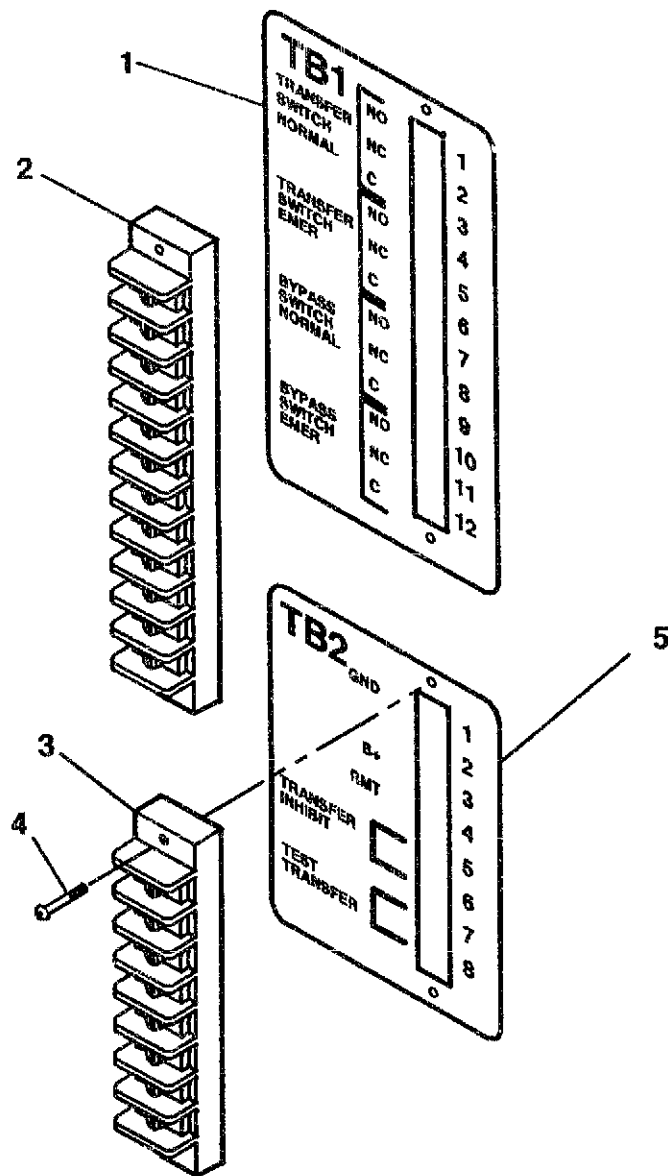
**Note: Shown with optional lugs**

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                        | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                          |
|---------|----------|----------|-----------------------------------------|---------|----------|----------|-------------------------------------------|
| 1       | 319-1616 | 1        | Channel, Support - Bus                  |         | 800-0051 | 4        | 3000 Amp                                  |
| 2       | 851-0022 | 20       | Washer, Spring - Conical                | 7       |          |          | Lug                                       |
| 3       | 800-0048 | 4        | Screw, Cap - Hex Head<br>(3/8-16 x 3/4) |         | 332-1557 | A/R      | #4 to 600 MCM                             |
| 4       | 332-2512 | 4        | Standoff, Insulator                     |         | 332-3036 | A/R      | 1/0 to 750 MCM                            |
| 5       |          |          | Bus, Neutral                            | 8       | 800-0056 | 12       | Screw, Cap - Hex Head<br>(3/8-16 x 2-1/2) |
|         | 337-2596 | 2        | 1600/2000 Amp                           | 9       | 526-0030 | 12       | Washer, Flat (3/8)                        |
|         | 337-2596 | 3        | 3000 Amp                                | 10      | 850-0050 | 12       | Washer, Lock (3/8)                        |
| 6       |          |          | Screw, Cap - Hex Head (3/8-16)          | 11      | 862-0003 | 12       | Nut, Hex (3/8-16)                         |
|         | 800-0050 | 4        | 1600/2000 Amp                           |         |          |          |                                           |

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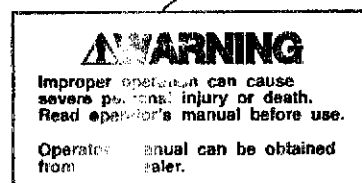
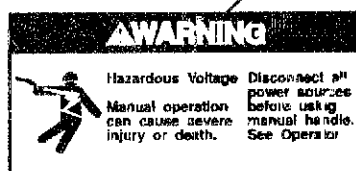
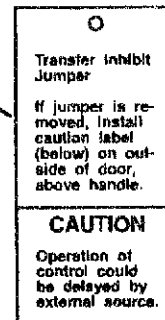
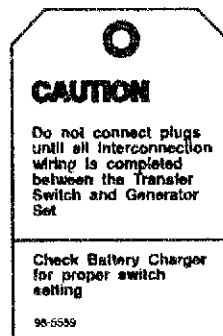
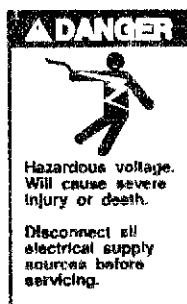
## TB1/TB2



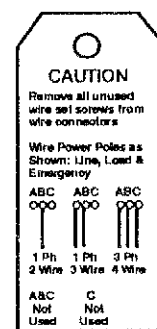
| REF NO. | PART NO. | QTY USED | PART DESCRIPTION | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                                       |
|---------|----------|----------|------------------|---------|----------|----------|------------------------------------------------------------------------|
| 1       | 332-3091 | 1        | Strip, Marker    | 4       | 815-0651 | 4        | Screw, Machine - Round H w/IT Cross Recessed Thr Cutting (#8-32 x 1/2) |
| 2       | 332-3059 | 1        | Block, Terminal  | 5       | 332-3092 | 1        | Strip, Marker                                                          |
| 3       | 332-2832 | 1        | Block, Terminal  |         |          |          |                                                                        |

## Plates, Labels and Tags

|                                                                 |
|-----------------------------------------------------------------|
| Automatic Operation                                             |
| Bypass to Normal Source (Source 1)                              |
| Bypass to Emergency Source (Source 2)                           |
| Testing the Automatic Transfer Switch Without Load Interruption |
| Isolating the Automatic Transfer Switch                         |
| Reconnecting the Automatic Transfer Switch                      |



**TB3**

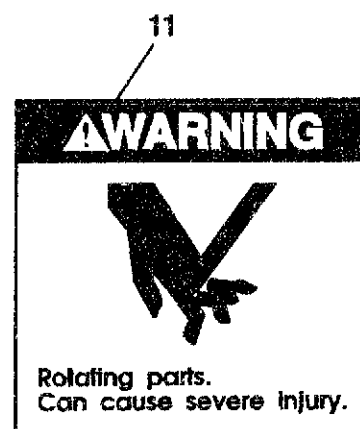
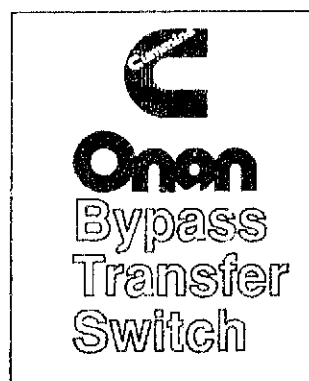
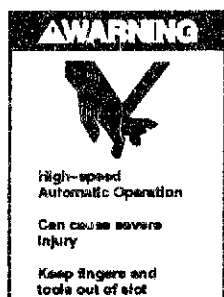


**TB2**

1  
2  
3  
4  
5  
6  
7  
8

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

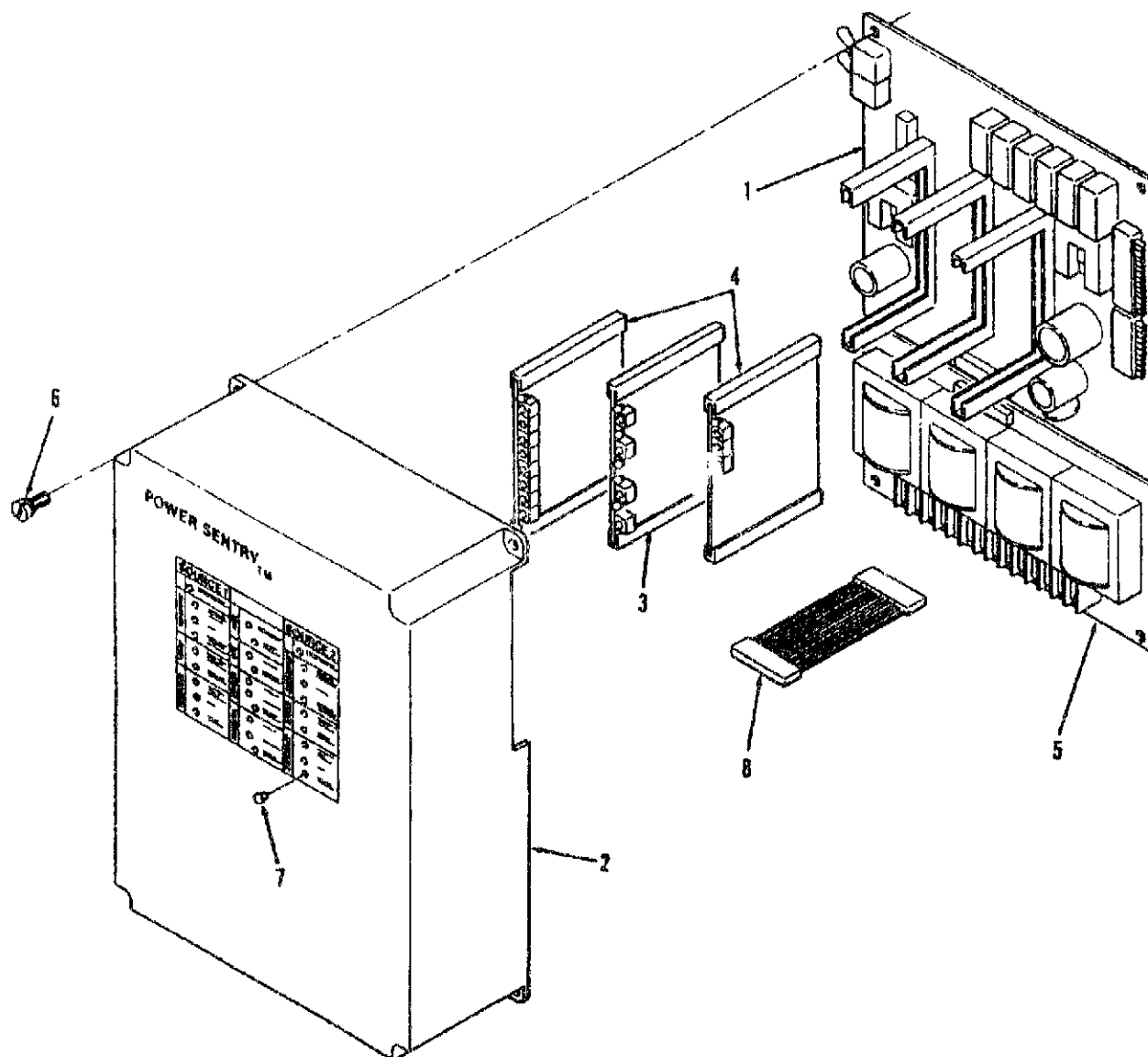
|           |        |
|-----------|--------|
| Emergency | Normal |
| Bypass    | Open   |



## Plates, Labels and Tags

| REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION                | REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION      |
|------------|-------------|-------------|------------------------------------|------------|-------------|-------------|--------------------------|
| 1          | 098-6605-02 | 1           | Label - Operating Instructions     | 11         | 098-6628    | 1           | Label - Warning          |
| 2          | 098-5387    | 1           | Label - Danger                     | 12         | 098-6384    | 1           | Label - BT               |
| 3          | 098-5589    | 1           | Tag - Caution                      | 13         | 098-6201    | 2           | Label - Warning          |
| 4          | 098-6635    | 1           | Label - Ground                     | 14         | 098-6551    | 1           | Label - Handle           |
| 5          | 098-6200    | 1           | Label - Warning                    | 15         | 098-5811    | 1           | Tag - Caution            |
| 6          | 098-6107    | 1           | Label - Caution (Jumper)           | 16         | 332-2842-12 | 2           | Tag - Terminal (11 - 20) |
| 7          | 098-5777-01 | 1           | Label - Warning                    | 17         | 332-2842-13 | 2           | Tag - Terminal (21 - 30) |
| 8          | 098-6031    | 1           | Label - Utility to Utility         | 18         | 098-5710    | 1           | Label - Terminal Block   |
| 9          | 098-6221    | 1           | Label - Power Cable (Not<br>Shown) | 19         | 332-2842-16 | 2           | Tag - Terminal (51 - 60) |
| 10         | 098-6631    | 1           | Label - Handle (Bypass)            |            |             |             |                          |

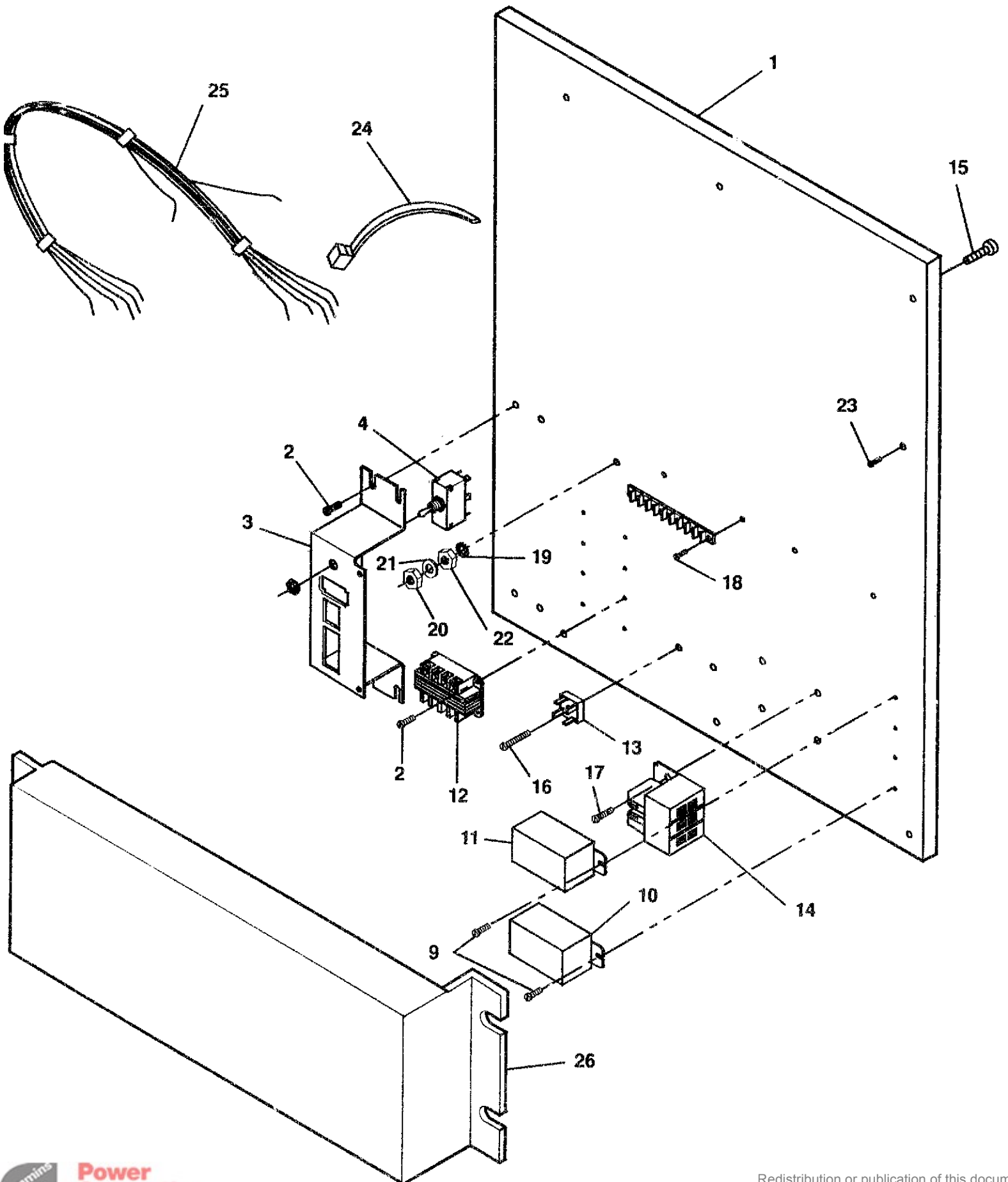
## Control Assembly



## Control Assembly

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                     | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                               |
|---------|-------------|----------|------------------------------------------------------|---------|----------|----------|------------------------------------------------|
| 1       |             |          | Board, Printed Circuit – Mother Utility to Genset    | 5       |          | 1        | Board, Printed Circuit – Transformer           |
|         | 300-3953-01 | 1        | Standard                                             |         | 300-3092 | 1        | 200 ~ 480 Volt                                 |
|         | 300-3953-02 | 1        | Extended Time Delay Utility to Utility               |         | 300-3118 | 1        | 600 Volt                                       |
|         | 300-3267    | 1        | Standard                                             | 6       | 815-0544 | 12       | Screw, Machine – Round Head W/IT (#6-32 x 1/2) |
| 2       | 306-3470    | 1        | Cover, Board – Printed Circuit (Includes Silkscreen) | 7       | 517-0256 | A/R      | Plug, Hole                                     |
| 3       |             |          | Board, Printed Circuit – Time Delay (J2)             | 8       | 323-1387 | 1        | Pin, Ribbon                                    |
|         | 300-3094    | 1        | Standard                                             |         |          |          |                                                |
|         | 300-3261    |          | Extended Time Delay                                  |         |          |          |                                                |
| 4       |             |          | Board, Printed Circuit – Voltage Sensor (J1, J3)     |         |          |          |                                                |
|         | 300-3121    | 1        | Undervoltage (50Hz & 60Hz)                           |         |          |          |                                                |
|         | 300-3093-01 | 1        | Over/Under Voltage & Over/Under Frequency (60Hz)     |         |          |          |                                                |
|         | 300-3093-02 | 1        | Over/Under Voltage & Over/Under Frequency (50Hz)     |         |          |          |                                                |

## Accessory Control Plate

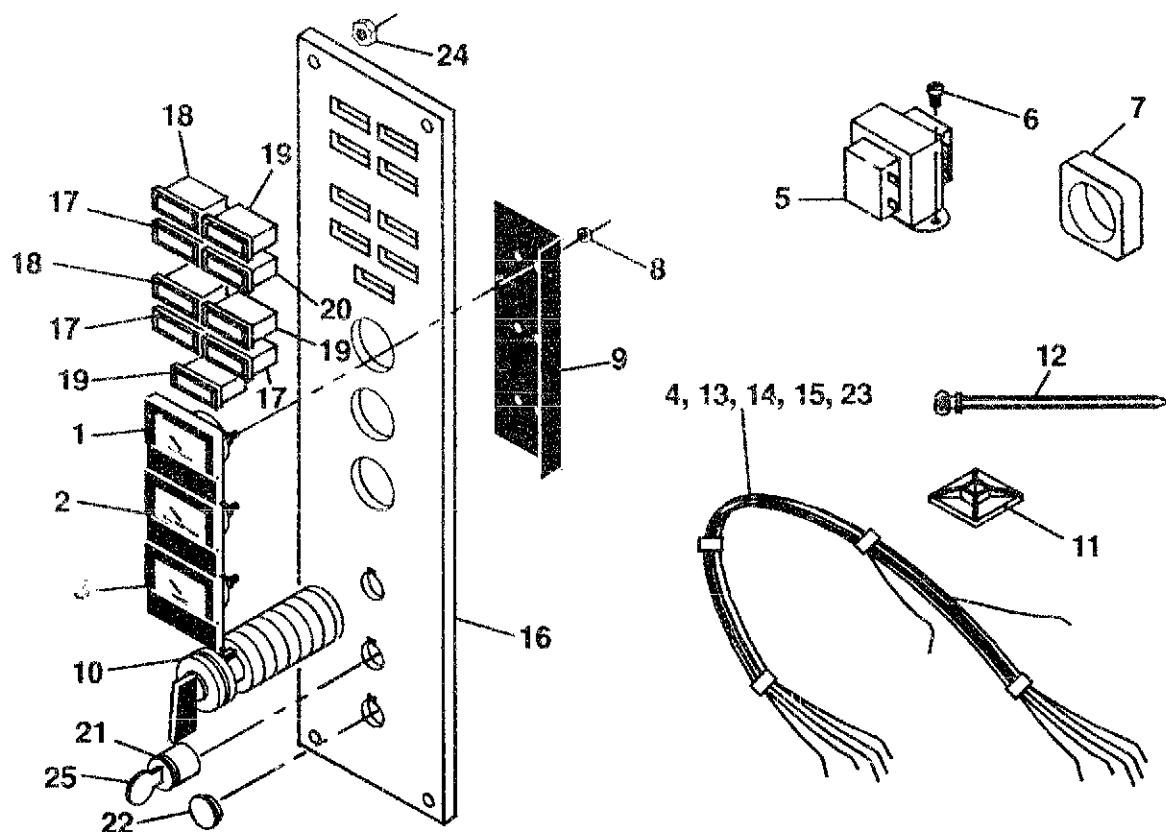


## Accessory Control Plate

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                                        | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                                        |
|---------|-------------|----------|-------------------------------------------------------------------------|---------|----------|----------|-------------------------------------------------------------------------|
|         | 300-4089    | 1        | Plate Assembly (Includes Parts Marked *)                                | 16      | 815-0651 | 2        | *Screw, Cap - Hex Head (Self Tapping) (#6-32 x 3/4)                     |
| 1       | 319-1607    | 1        | *Plate (Includes Silkscreen)                                            | 17      | 815-0446 | 8        | Screw, Round Head W/IT (Cross Recessed) (Thread Cutting) (#8-32 x 1/2)  |
| 2       | 815-0446    | 8        | *Screw, Round Head - Cross Recessed W/IT (Thread Cutting) (#8-32 x 1/2) | 18      | 815-0447 | 4        | *Screw, Round Head W/IT (Cross Recessed) (Thread Cutting) (#8-32 x 3/4) |
| 3       | 319-1483    | 1        | *Bracket, Accessory Control Plate (Includes Silkscreen)                 | 19      | 856-0002 | 2        | *Washer, Lock - EIT (#8)                                                |
| 4       | 308-0406    | 1        | *Switch, Toggle                                                         | 20      | 870-0221 | 2        | *Nut, Hex W/ET (#8-32)                                                  |
| 9       | 815-0122    | 7        | Screw, Hex Head (Self Tapping) (#6-32 x 1/2)                            | 21      | 526-0048 | 2        | *Washer, Flat (#8)                                                      |
| 10      | 307-2575    | 2        | *Relay, 24 VAC - 3PDT                                                   | 22      | 860-0008 | 2        | *Nut, Hex (#8-32)                                                       |
| 11      | 307-2591    | 1        | *Relay, 24 VDC - 3PDT                                                   | 23      | 815-0122 | 7        | *Screw, Hex Head (Self Tapping) (#6-32 x 1/2)                           |
| 12      |             |          | Transformer, Power                                                      | 24      | 332-2877 | 9        | *Tie, Cable                                                             |
|         | 315-0723-02 | 2        | 208/220/240/480 Volt                                                    | 25      | 338-2817 | 1        | *Harness, Main                                                          |
|         | 315-0723-03 | 2        | 380/416 Volt                                                            | 26      | 319-1507 | 1        | Shield (Includes Silkscreen)                                            |
|         | 315-0723-04 | 2        | 600 Volt                                                                |         |          |          |                                                                         |
| 13      | 305-0653    | 2        | *Rectifier, Bridge                                                      |         |          |          |                                                                         |
| 14      | 307-2694    | 2        | *Contactor, Reversing                                                   |         |          |          |                                                                         |
| 15      | 810-0085    | 2        | *Screw, Round Head (#8-32 x 1-1/8)                                      |         |          |          |                                                                         |

\* = Parts included in Accessory Control Plate Assembly

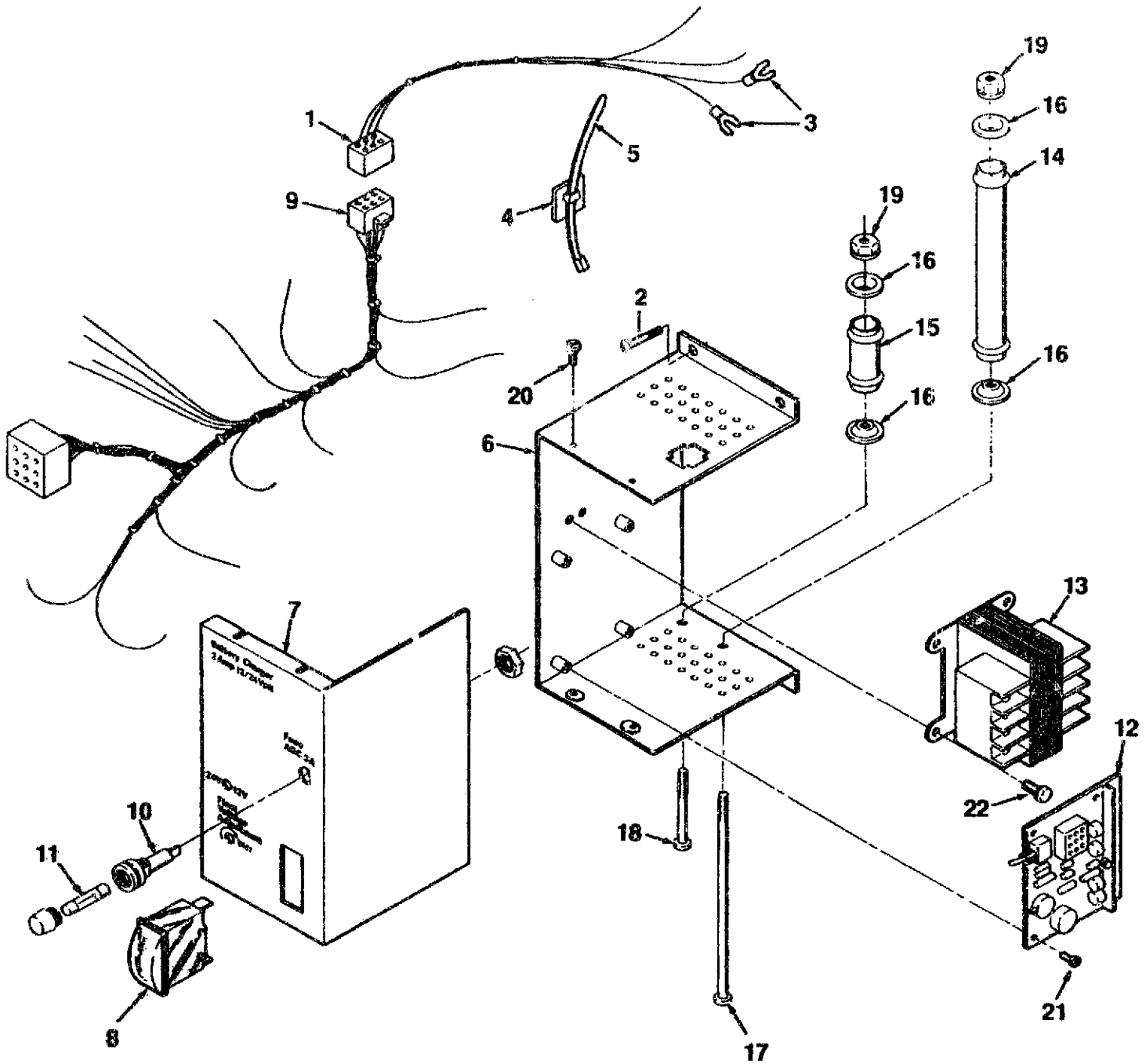
## Meters



| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                        | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                   |
|---------|-------------|----------|---------------------------------------------------------|---------|-------------|----------|------------------------------------|
| 1       |             |          | Voltmeter, AC                                           |         |             |          | (S12)                              |
|         | 302-1175    | 1        | 208/220/240 Volt                                        | 11      | 332-2420    | A/R      | Mount, Tie - Cable                 |
|         | 302-1998    | 1        | 380/416 Volt                                            | 12      | 332-0941    | A/R      | Tie, Cable                         |
|         | 302-1711    | 1        | 480 Volt                                                | 13      | 338-2784    | 1        | Harness, Meter                     |
| 2       |             |          | Ammeter, AC                                             | 14      | 338-2830    | 1        | Harness, Transformer - Current     |
|         | 302-1734    | 1        | 1200 Amp                                                | 15      | 338-2219    | 1        | Harness, Control                   |
|         | 302-1735    | 1        | 1600 Amp                                                | 16      |             |          | Panel, Meter (Includes Silkscreen) |
|         | 302-1736    | 1        | 2000 Amp                                                |         |             |          | Utility to Genset                  |
|         | 302-1891    | 1        | 3000 Amp                                                |         |             |          | Without Meters                     |
| 3       |             |          | Meter, Frequency                                        |         | 319-1613-01 | 1        | With Meters                        |
|         | 302-1720    | 1        | 60 Hertz                                                |         | 319-1613-02 | 1        | Utility to Utility                 |
|         | 302-1992    | 1        | 50 Hertz                                                |         |             |          | Without Meters                     |
| 4       |             |          | Harness, Meter - Power                                  |         | 319-1613-03 | 1        | With Meters                        |
|         | 338-2832    | 1        | 208/220/240 Volt                                        | 17      | 322-0387-02 | 3        | Light, Indicating (White)          |
|         | 338-2831    | 1        | 380/416/480 Volt                                        | 18      | 322-0170    | 2        | Light, Indicating (Green)          |
| 5       |             |          | Transformer, Stepdown                                   | 19      | 322-0137    | 3        | Light, Indicating (Red)            |
|         | 315-0377    | 1        | 480/600 Volt                                            | 20      | 322-0168    | 1        | Light, Indicating (Amber)          |
|         | 315-0731    | 1        | 380/416 Volt                                            | 21      |             |          | Switch, Selector (S14)             |
| 6       | 815-0403    | 2        | Screw, Machine - Pan Head (#8-32 x .31)(Thread Forming) |         | 308-0955    | 1        | Utility to Utility                 |
| 7       |             |          | Transformer, Current                                    |         | 308-0960    | 1        | Utility to Genset                  |
|         | 302-1976-01 | 3        | 1200 Amp                                                | 22      | 517-0137    | 1        | Plug, Hole                         |
|         | 302-1976-03 | 3        | 1600 Amp                                                | 23      | 338-2824    | 1        | Harness, Wiring (Meter/Lamp)       |
|         | 302-1976-02 | 3        | 2000 Amp                                                | 24      | 870-0212    | 6        | Nut, Flange (1/4-20)               |
|         | 302-1976-04 | 3        | 3000 Amp                                                | 25      | 308-0989    | 1        | Key, Replacement (fits item 21)    |
| 8       | 870-0439    | 6        | Nut, Nylon                                              |         |             |          |                                    |
| 9       | 306-3464    | 1        | Shield, Meter                                           |         |             |          |                                    |
| 10      | 308-0904    | 1        | Switch, Rotary (Volt/Ammeter)                           |         |             |          |                                    |



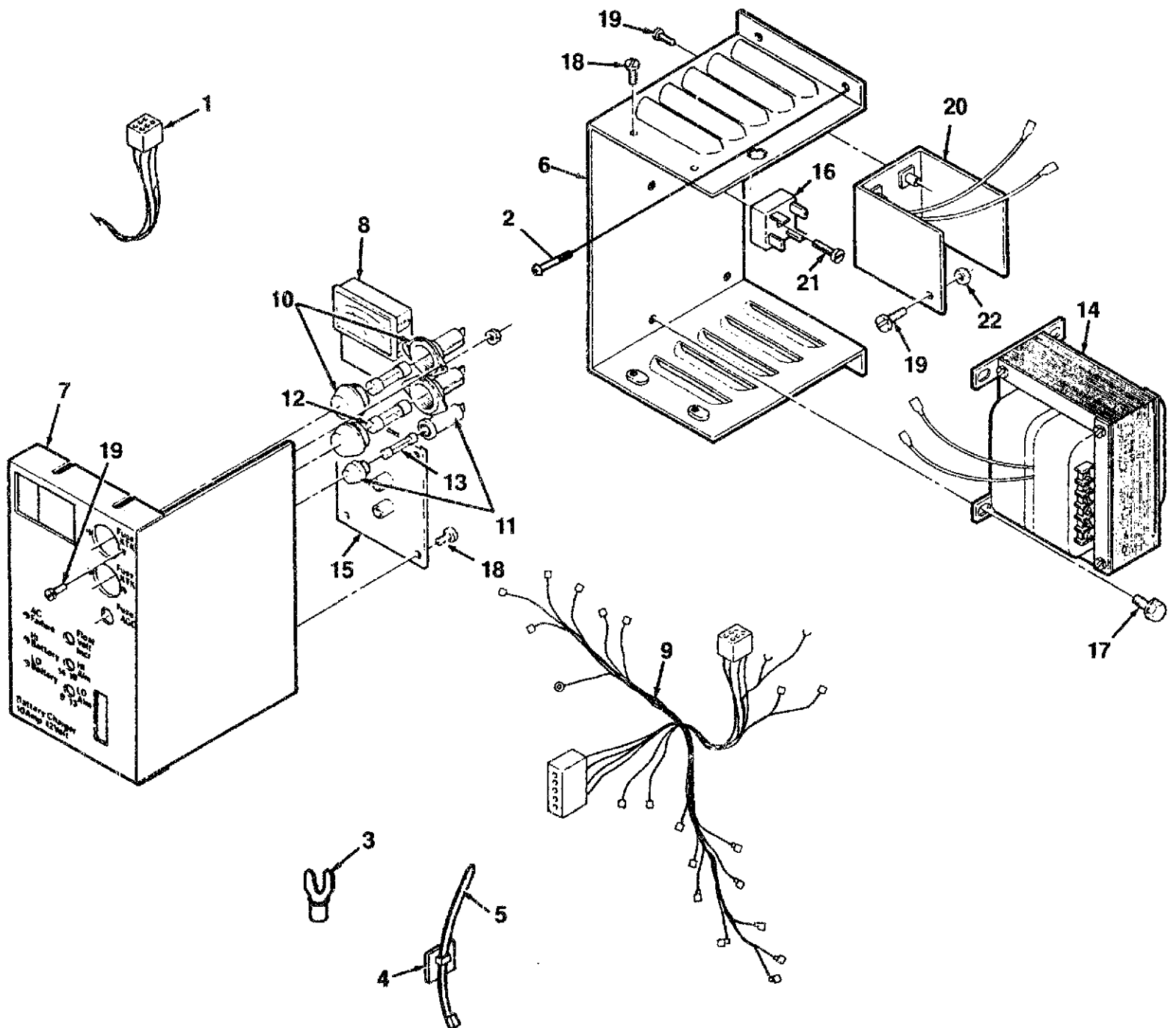
# **Battery Charger (2 Amp)**



## Battery Charger (2 Amp)

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                              | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                             |
|---------|-------------|----------|-----------------------------------------------|---------|----------|----------|----------------------------------------------|
| 1       | 338-2850    | 1        | Harness, Wiring - Battery Charger             | 14      | 304-0037 | 1        | Resistor, Fixed (6 Ohms - 75 Watts)          |
| 2       | 815-0446    | 4        | Screw, Machine - Round Head W/T (#8-32 x 1/2) | 15      | 304-0139 | 1        | Resistor, Fixed (2.5 Ohms - 2 Watts)         |
| 3       | 332-2777    | 2        | Terminal, Spade                               | 16      | 304-0015 | 4        | Washer, Centering                            |
| 4       | 332-2420    | 2        | Mount, Tie - Cable                            | 17      | 813-0116 | 1        | Screw, Machine - Round Head (#10-32 x 6-1/2) |
| 5       | 332-0942    | 6        | Tie, Cable                                    | 18      | 813-0112 | 1        | Screw, Machine - Round Head (#10-32 x 2-1/2) |
| 6       | 301-9990    | 1        | Wrapper, Charger - Battery                    | 19      | 870-0131 | 2        | Nut, Lock - W/ET (#10-32)                    |
| 7       | 301-9992    | 1        | Cover, Charger (Includes Silkscreen)          | 20      | 815-0550 | 4        | Screw, Machine - Pan Head (#6-32 x 3/8)      |
| 8       | 302-0807    | 1        | Meter, Ampere - DC                            | 21      | 815-0549 | 4        | Screw, Machine - Pan Head (#6-32 x 1/4)      |
| 9       | 338-2149    | 1        | Harness, Wiring - Battery Charger             | 22      | 821-0040 | 4        | Screw, Lock (#10-32 x 5/16)                  |
| 10      | 321-0175    | 1        | Holder, Fuse                                  |         |          |          |                                              |
| 11      | 321-0153    | 1        | Fuse, 3 Amp                                   |         |          |          |                                              |
| 12      | 300-2946    | 1        | Board, Printed Circuit - Battery Charger      |         |          |          |                                              |
| 13      |             |          | Transformer (Primary Voltage)                 |         |          |          |                                              |
|         |             |          | <b>60 Hertz</b>                               |         |          |          |                                              |
|         | 315-0621-02 | 1        | 208 Volt                                      |         |          |          |                                              |
|         | 315-0621-02 | 1        | 240 Volt                                      |         |          |          |                                              |
|         | 315-0621-03 | 1        | 380 Volt                                      |         |          |          |                                              |
|         | 315-0621-02 | 1        | 480 Volt                                      |         |          |          |                                              |
|         |             |          | <b>50 Hertz</b>                               |         |          |          |                                              |
|         | 315-0621-02 | 1        | 208 Volt                                      |         |          |          |                                              |
|         | 315-0621-02 | 1        | 220 Volt                                      |         |          |          |                                              |
|         | 315-0621-03 | 1        | 380 Volt                                      |         |          |          |                                              |
|         | 315-0621-03 | 1        | 416 Volt                                      |         |          |          |                                              |

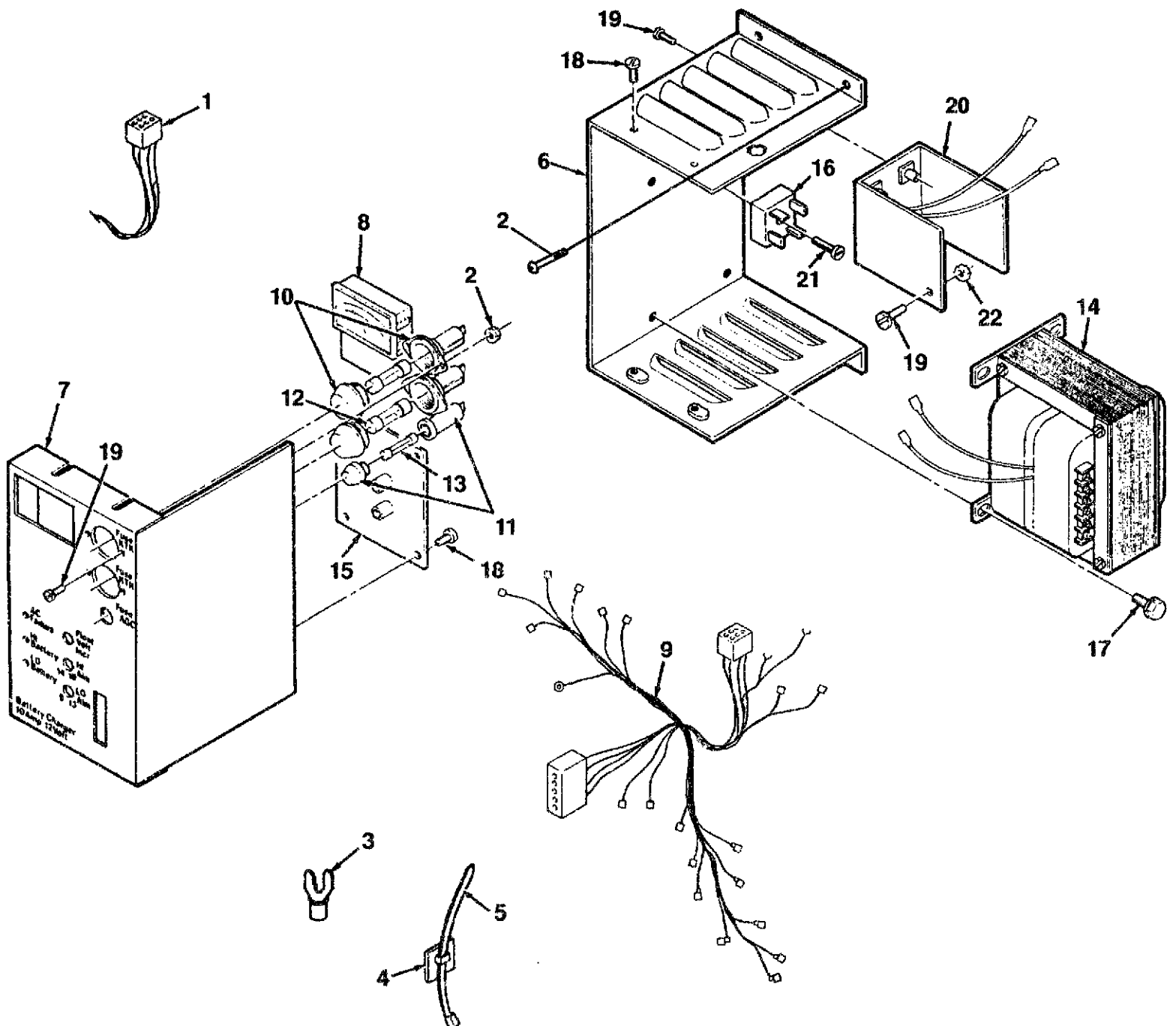
# **Battery Charger (10 Amp) (12 Volt)**



## Battery Charger (10 Amp) (12 Volt)

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                               | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                             |
|---------|-------------|----------|------------------------------------------------|---------|----------|----------|----------------------------------------------|
| 1       | 338-2850    | 1        | Harness, Wiring – Battery Charger              | 13      | 321-0127 | 1        | Fuse, 15 Amp                                 |
| 2       | 815-0446    | 4        | Screw, Machine – Round Head W/IT (#8-32 x 1/2) | 14      |          |          | Transformer (Primary Voltage: 60 Hertz)      |
| 3       | 332-2777    | 2        | Terminal, Spade                                |         | 315-0700 | 1        | 208 Volt                                     |
| 4       | 332-2420    | 2        | Mount, Tie – Cable                             |         | 315-0700 | 1        | 240 Volt                                     |
| 5       | 332-0942    | 6        | Tie, Cable                                     |         | 315-0706 | 1        | 380 Volt                                     |
| 6       | 319-0072    | 1        | Wrapper, Charger – Battery                     |         | 315-0708 | 1        | 480 Volt                                     |
| 7       |             |          | Cover, Charger                                 |         |          |          | 50 Hertz                                     |
|         |             |          | 60 Hertz                                       |         | 315-0704 | 1        | 220 Volt                                     |
|         | 319-0195-02 | 1        | 208 Volt                                       |         | 315-0712 | 1        | 240 Volt                                     |
|         | 319-0195-03 | 1        | 240 Volt                                       |         | 315-0702 | 1        | 380 Volt                                     |
|         | 319-0195-04 | 1        | 380 Volt                                       |         | 315-0704 | 1        | 416 Volt                                     |
|         | 319-0195-05 | 1        | 480 Volt                                       | 15      | 300-3160 | 1        | Board, Printed Circuit – Battery Charger     |
|         |             |          | 50 Hertz                                       | 16      | 305-0653 | 1        | Rectifier, Bridge                            |
|         | 319-0195-08 | 1        | 220 Volt                                       | 17      | 821-0040 | 4        | Screw, Lock (#10-32 x 5/16)                  |
|         | 319-0195-09 | 1        | 240 Volt                                       | 18      | 815-0550 | 8        | Screw, Machine – Pan Head W/ET (#6-32 x 3/8) |
|         | 319-0195-11 | 1        | 380 Volt                                       |         |          |          |                                              |
|         | 319-0195-13 | 1        | 416 Volt                                       | 19      | 822-2048 | 5        | Screw, Machine – Pan Head (#8-32 x 1/2)      |
| 8       | 302-1844    | 1        | Meter, Ampere – DC                             |         |          |          |                                              |
| 9       | 338-2223    | 1        | Harness, Wiring – Battery Charger              | 20      | 305-0781 | 1        | Rectifier, SCR                               |
| 10      | 321-0237    | 2        | Holder, Fuse (AC Input)                        | 21      | 822-2049 | 1        | Screw, Machine – Pan Head W/ET (#8-32 x 5/8) |
| 11      | 321-0104    | 1        | Holder, Fuse (DC Output)                       | 22      | 870-0221 | 5        | Nut, Lock – W/ET (#8-32)                     |
| 12      |             |          | Fuse                                           |         |          |          |                                              |
|         | 321-0304-01 | 2        | 1.0 Amp 480 Volt                               |         |          |          |                                              |
|         | 321-0304-02 | 2        | 1.5 Amp 380 Volt                               |         |          |          |                                              |
|         | 321-0304-03 | 2        | 2.0 Amp 240 Volt                               |         |          |          |                                              |
|         | 321-0304-04 | 2        | 2.5 Amp 208 Volt                               |         |          |          |                                              |

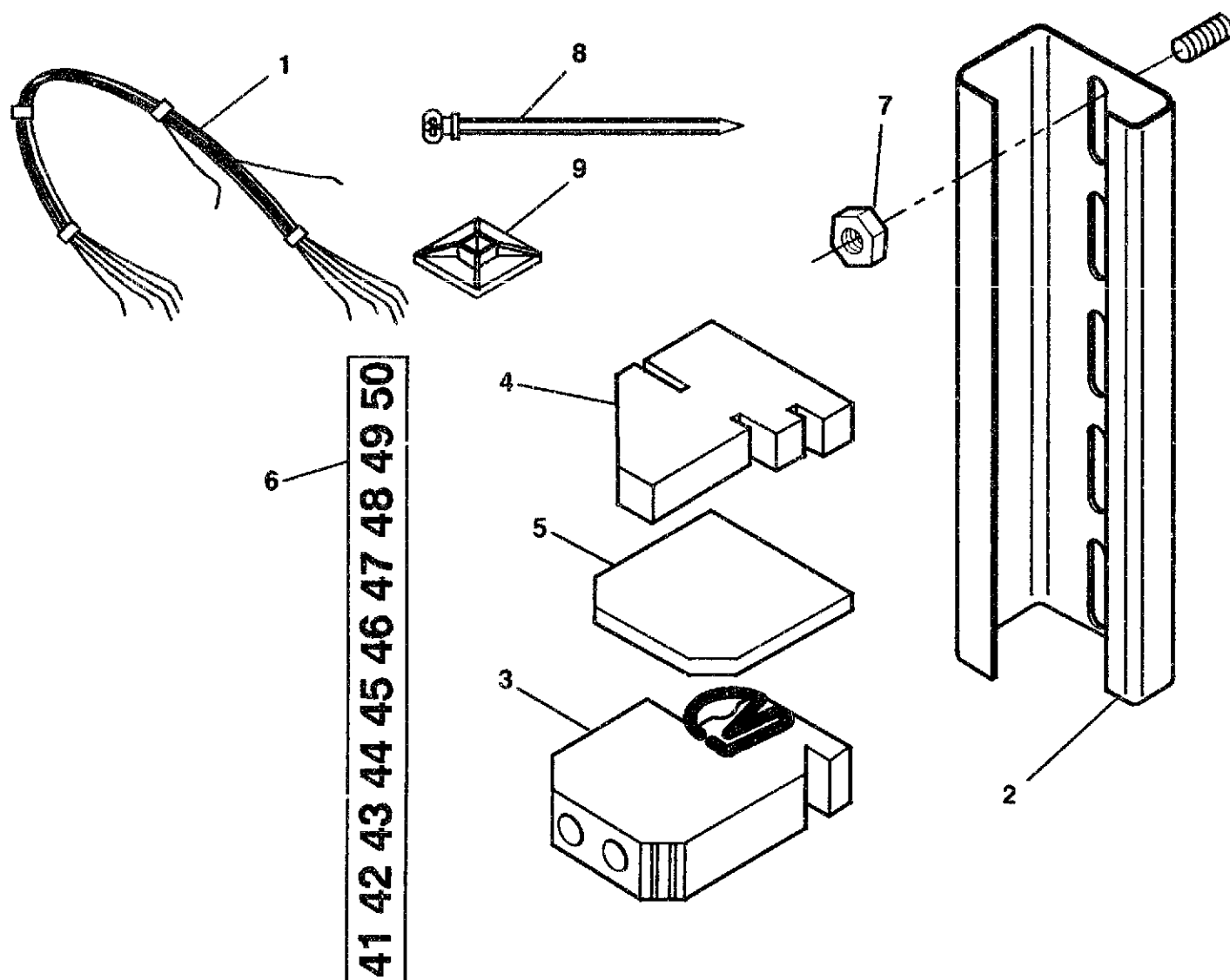
# **Battery Charger (10 Amp) (24 Volt)**



## Battery Charger (10 Amp) (24 Volt)

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                     | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                             |
|---------|-------------|----------|--------------------------------------|---------|----------|----------|----------------------------------------------|
| 1       | 338-2850    | 1        | Harness, Wiring - Battery Charger    | 14      |          |          | Transformer (Primary Voltage 60 Hertz        |
| 2       | 815-0446    | 4        | Nut, Lock - W/ET (#10-32)            |         | 315-0701 | 1        | 208 Volt                                     |
| 3       | 332-2777    | 2        | Terminal, Spade                      |         | 315-0701 | 1        | 240 Volt                                     |
| 4       | 332-2420    | 2        | Mount, Tie - Cable                   |         | 315-0707 | 1        | 380 Volt                                     |
| 5       | 332-0942    | 6        | Tie, Cable                           |         | 315-0709 | 1        | 480 Volt                                     |
| 6       | 319-0072    | 1        | Wrapper, Charger - Battery           |         |          |          | 50 Hertz                                     |
| 7       | 319-0073    |          | Cover, Charger (Includes Silkscreen) |         | 315-0705 | 1        | 220 Volt                                     |
|         |             |          | 60 Hertz                             |         | 315-0713 | 1        | 240 Volt                                     |
|         | 319-0195-06 | 1        | 208 Volt                             |         | 315-0703 | 1        | 380 Volt                                     |
|         | 319-0195-07 | 1        | 240 Volt                             |         | 315-0705 | 1        | 416 Volt                                     |
|         | 319-0195-08 | 1        | 380 Volt                             | 15      | 300-3244 | 1        | Board, Printed Circuit - Battery Charger     |
|         | 319-0195-09 | 1        | 480 Volt                             | 16      | 305-0653 | 1        | Rectifier, Bridge                            |
|         |             |          | 50 Hertz                             | 17      | 821-0040 | 4        | Screw, Lock (#10-32 x 5/16)                  |
|         | 319-0195-06 | 1        | 220 Volt                             | 18      | 815-0550 | 8        | Screw, Machine - Pan Head W/ET (#6-32 x 3/8) |
|         | 319-0195-07 | 1        | 240 Volt                             | 19      | 822-2048 | 5        | Screw, Machine - Pan Head (#8-32 x 1/2)      |
|         | 319-0195-08 | 1        | 380 Volt                             | 20      | 305-0781 | 1        | Rectifier, SCR                               |
|         | 319-0195-08 | 1        | 416 Volt                             | 21      | 822-2049 | 1        | Screw, Machine - Pan Head W/ET (#8-32 x 5/8) |
| 8       | 302-1844    | 1        | Meter, Ampere - DC                   | 22      | 870-0221 | 5        | Nut, Lock - W/ET (#8-32)                     |
| 9       | 338-2223    | 1        | Harness, Wiring - Battery Charger    |         |          |          |                                              |
| 10      | 321-0237    | 2        | Holder, Fuse (AC Input)              |         |          |          |                                              |
| 11      | 321-0104    | 1        | Holder, Fuse (DC Output)             |         |          |          |                                              |
| 12      |             |          | Fuse                                 |         |          |          |                                              |
|         | 321-0304-03 | 2        | 2.0 Amp 480 Volt                     |         |          |          |                                              |
|         | 321-0304-04 | 2        | 2.5 Amp 380 Volt                     |         |          |          |                                              |
|         | 321-0304-05 | 2        | 4.5 Amp 240 Volt                     |         |          |          |                                              |
|         | 321-0304-06 | 2        | 5.0 Amp 208 Volt                     |         |          |          |                                              |
| 13      | 321-0127    | 1        | Fuse, 15 Amp                         |         |          |          |                                              |

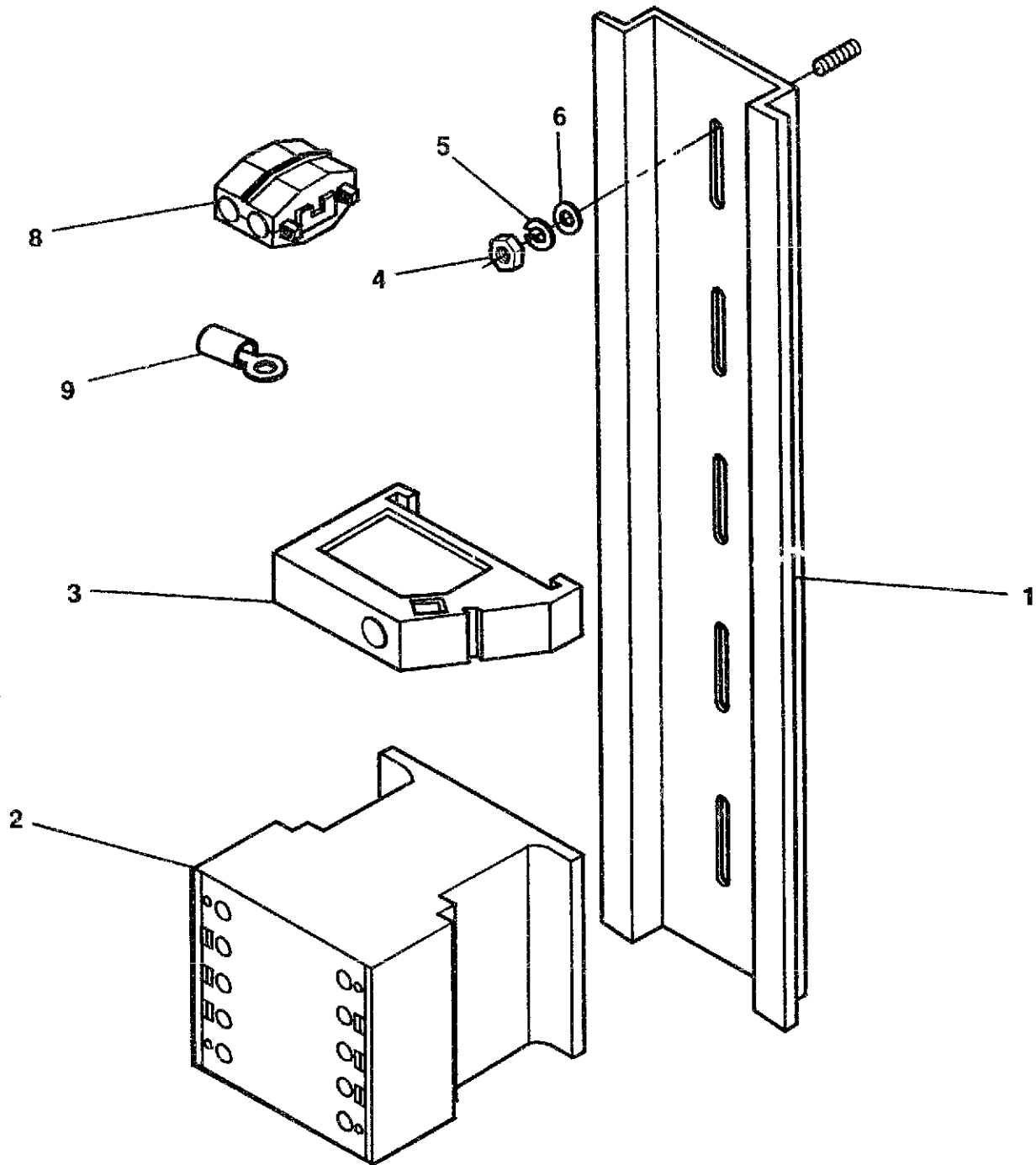
## Battery Charger Alarm



| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                  |
|---------|-------------|----------|-----------------------------------|
| 1       | 338-2350    | 1        | Harness, Alarm                    |
| 2       | 332-2837-09 | 1        | Rail, Terminal                    |
| 3       | 332-2836-02 | 1        | Block, Terminal - Sectional (TB3) |
| 4       | 332-2839    | 2        | Bracket, End - Terminal           |

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION        |
|---------|-------------|----------|-------------------------|
| 5       | 332-2841    | 1        | Plate, End - Terminal   |
| 6       | 332-2842-15 | 2        | Tag, Terminal (41 - 50) |
| 7       | 870-0221    | 2        | Nut, Hex - With EIT     |
| 8       | 332-0941    | 10       | Tie, Cable              |
| 9       | 332-2420    | 4        | Mount, Tie - Cable      |

## Auxiliary Relay

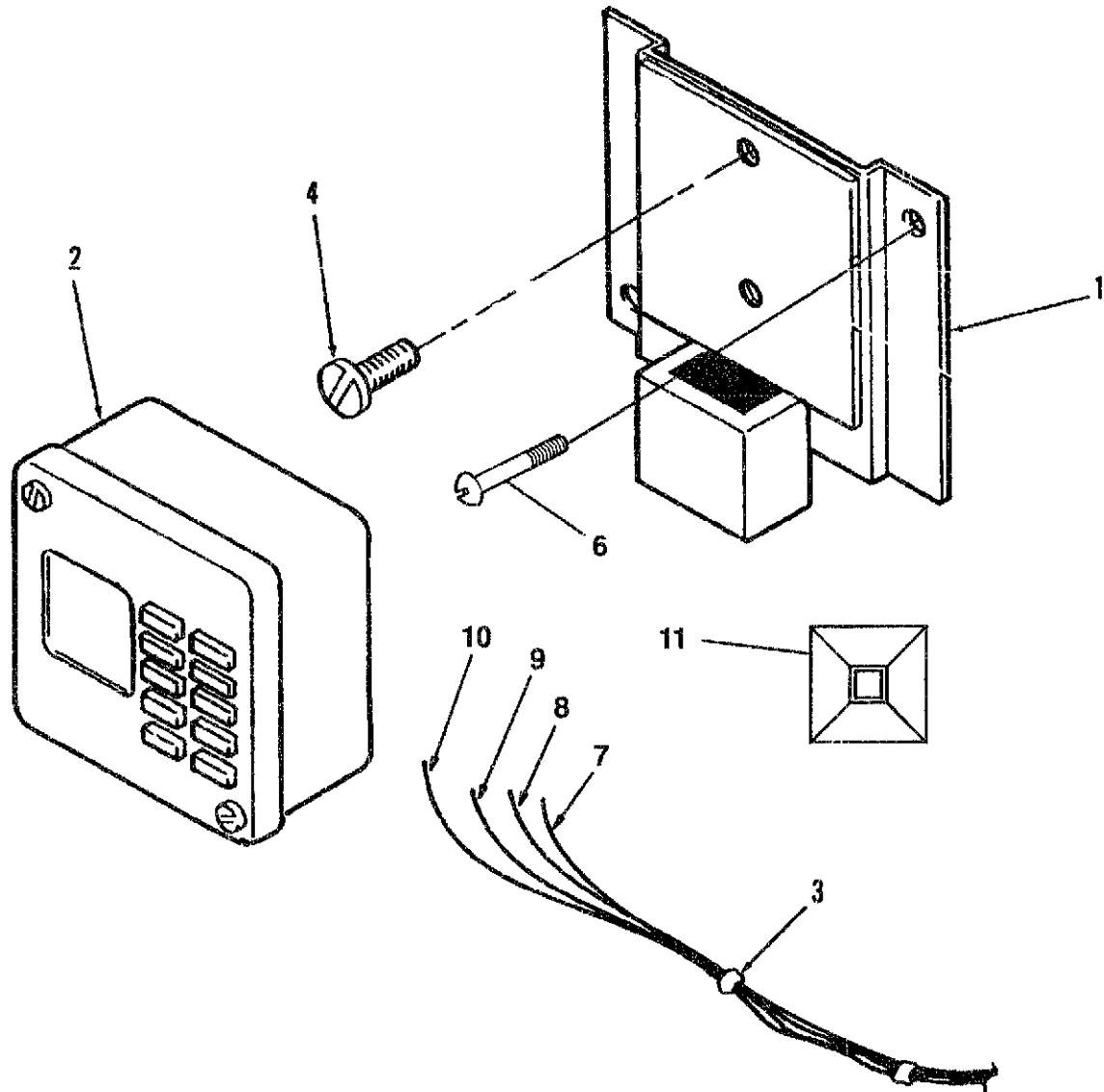


| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION | REF NO. | PART NO. | QTY USED | PART DESCRIPTION               |
|---------|-------------|----------|------------------|---------|----------|----------|--------------------------------|
| 1       | 332-2879-02 | 1        | Rail, Terminal   | 5       | 853-0005 | 2        | Washer, Lock - ET (#8)         |
| 2       |             |          | Relay, Control   | 6       | 526-0003 | 2        | Washer, Flat (#8)              |
|         | 307-2578    | 1        | 24 Volt A.C.     | 7       | NFS      | 12'      | Wire (16AWG, 600V TEW) (Shown) |
|         | 307-2582    | 1        | 12 Volt D.C.     | 8       | 332-2230 | 1        | Terminal, Tap - Plier          |
|         | 307-2583    | 1        | 24 Volt D.C.     | 9       | 332-0802 | 1        | Terminal, Ring (#8)            |
| 3       | 332-2878    | 2        | Bracket, End     |         |          |          |                                |
| 4       | 860-0008    | 2        | Nut, Hex (#8-32) |         |          |          |                                |

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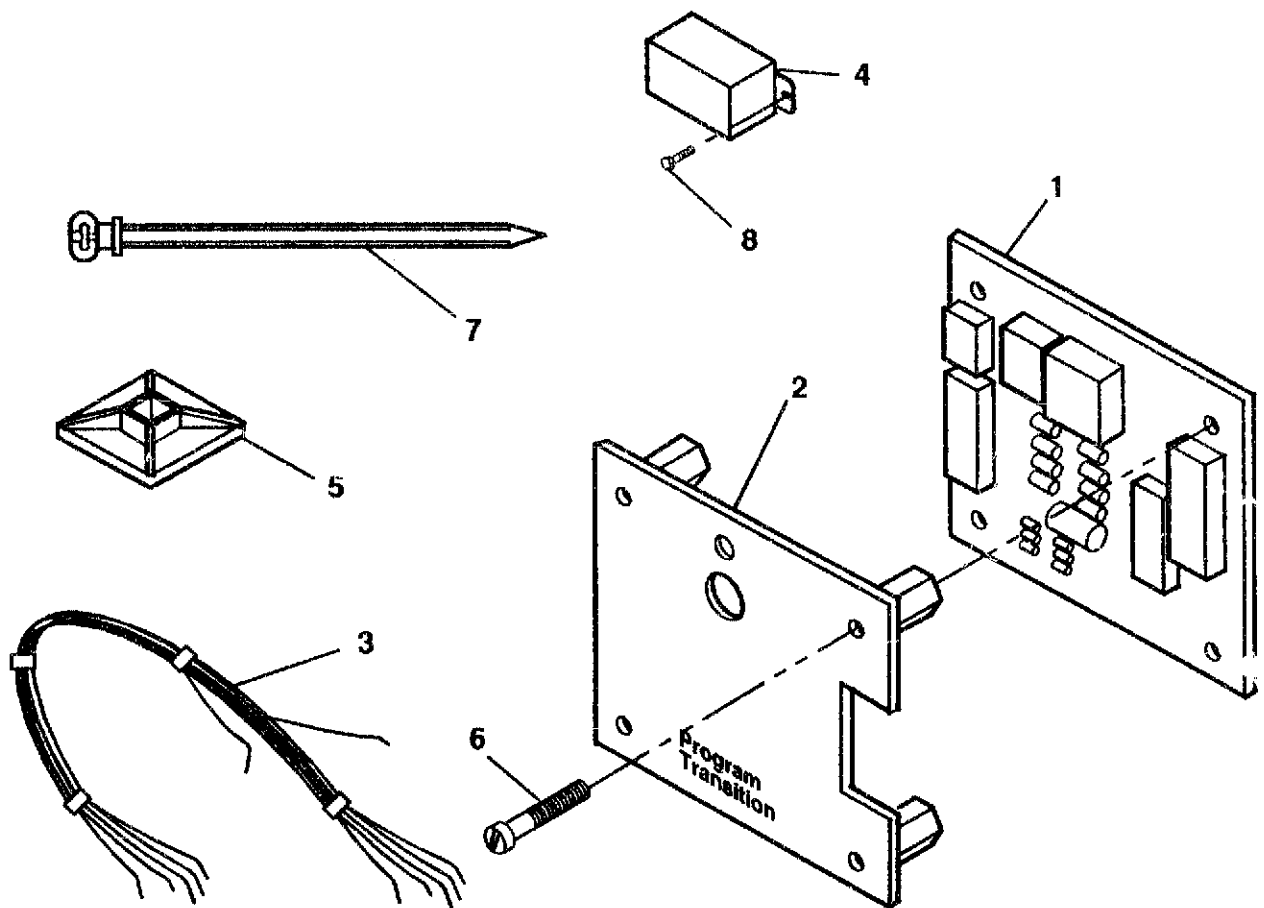


## Exerciser Clock



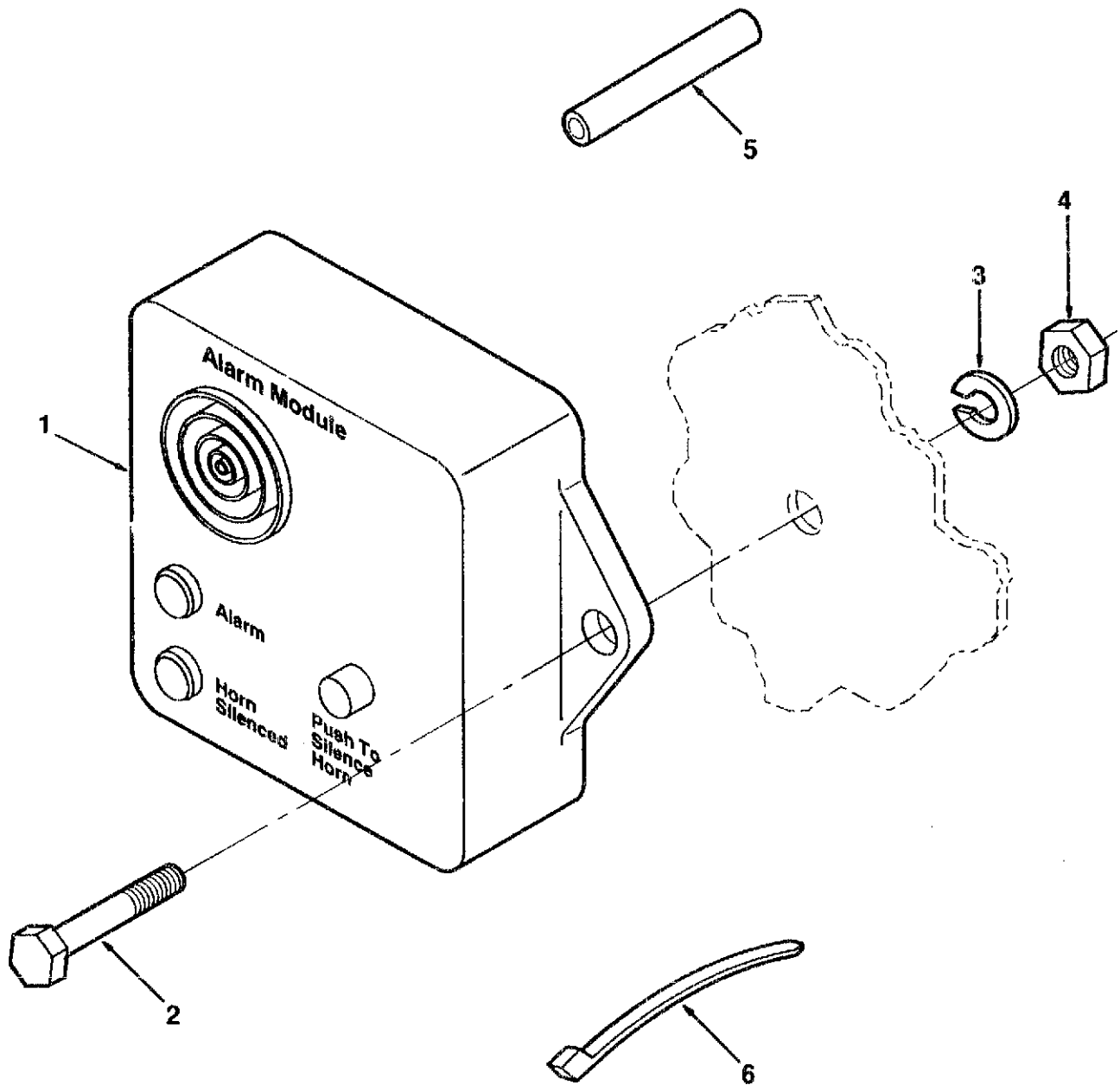
| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                              | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION   |
|---------|----------|----------|---------------------------------------------------------------|---------|-------------|----------|--------------------|
| 1       | 301-9768 | 1        | Plate, Clock - Exerciser                                      | 7       | 226-4453-01 | 1        | Lead               |
| 2       | 307-2577 | 1        | Clock, Exerciser                                              | 8       | 226-4453-02 | 1        | Lead               |
| 3       | 332-0941 | 10       | Tie, Cable                                                    | 9       | 226-4453-03 | 1        | Lead               |
| 4       | 815-0550 | 2        | Screw, Machine - Round Head (#6-32 x 3/8)                     | 10      | 226-4453-04 | 1        | Lead               |
| 6       | 815-0446 | 2        | Screw, Machine - Round Head Cross Recessed W/ET (#8-32 x 1/2) | 11      | 332-2420    | 2        | Mount, Tie - Cable |

## Programmed Transition



| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                   | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                          |
|---------|-------------|----------|----------------------------------------------------|---------|----------|----------|-----------------------------------------------------------|
| 1       |             |          | Board, Printed Circuit – Programmed Transition     | 4       | 307-2591 | 1        | Relay, Programmed Transition (K3) (24 VDC)                |
|         | 300-3115-01 | 1        | 07.5 Seconds                                       | 5       | 332-2420 | 1        | Mount, Tie – Cable                                        |
|         | 300-3115-02 | 1        | 60.0 Seconds                                       | 6       | 815-0680 | 4        | Screw, Machine – Pan Head Cross Recessed W/ET (#6-32 x 1) |
| 2       |             |          | Cover, Programmed Transition (Includes Silkscreen) | 7       | 332-0941 | 8        | Tie, Cable                                                |
|         | 301-9928-01 | 1        | 7.5 Seconds                                        | 8       | 815-0122 | 1        | Screw, Hex Head – Self Tappi                              |
|         | 301-9928-02 | 1        | 60 Seconds                                         |         |          |          |                                                           |
| 3       | 338-2849    | 1        | Harness, Wiring – Programmed Transition            |         |          |          |                                                           |

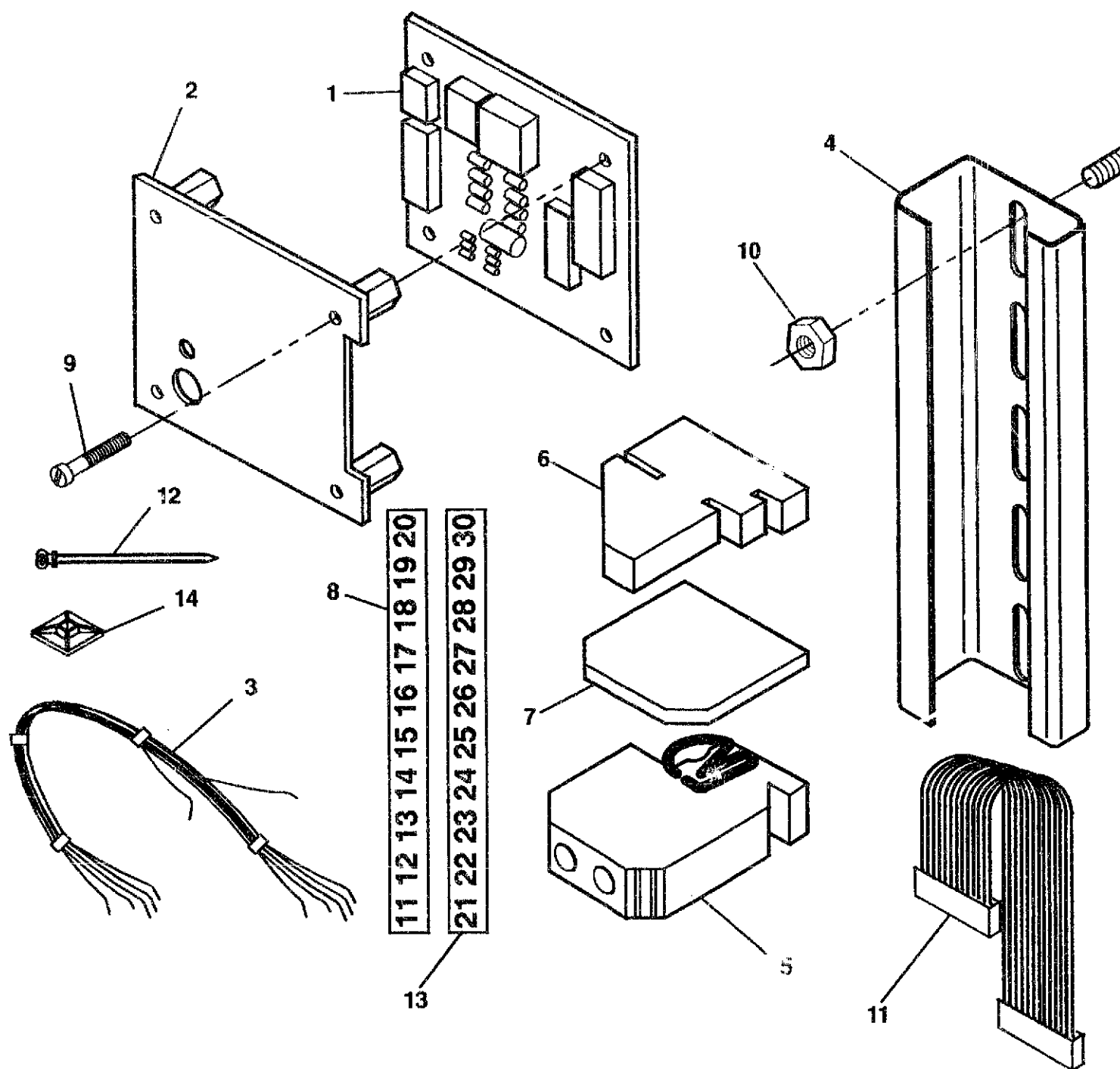
## Alarm Module



| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                        |
|---------|-------------|----------|-----------------------------------------|
| 1       | 300-3998-01 | 1        | Module, Alarm                           |
|         | 300-3998-02 | 1        | 24 Volt                                 |
|         |             | 1        | 12 Volt                                 |
| 2       | 800-0006    | 2        | Screw, Cap - Hex Head<br>(1/4-20 x 7/8) |
| 3       | 850-0040    | 2        | Washer, Lock (1/4)                      |

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                   |
|---------|----------|----------|------------------------------------|
| 4       | 862-0001 | 2        | Nut, Hex (1/4-20)                  |
| 5       | 332-2230 | 2        | Splice, Inline (22-18 wire)        |
| 6       | 332-0942 | 3        | Tie, Cable                         |
| 7       | 539-1344 | 1        | Template, Alarm Module (Not Shown) |

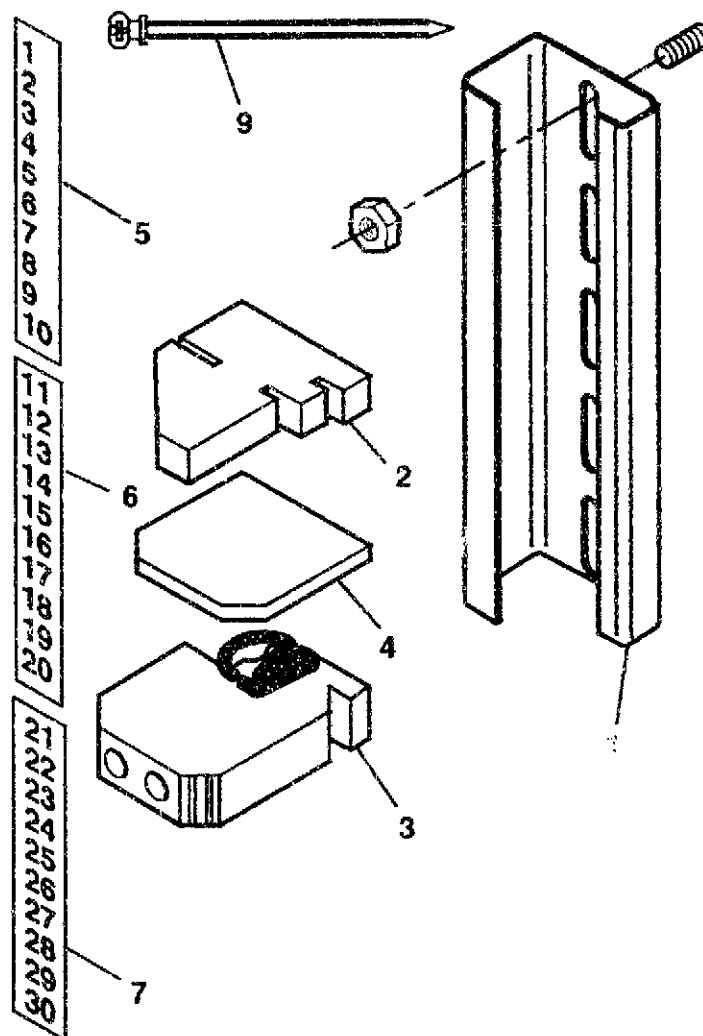
## Signal Module



| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                  |
|---------|-------------|----------|-----------------------------------|
| 1       | 300-3096    | 1        | Board, Printed Circuit - Signal   |
| 2       | 301-9932    | 1        | Cover, Signal - Elevation         |
| 3       | 338-2847    | 1        | Harness, Wiring - Signal          |
| 4       | 332-2837-09 | 1        | Rail, Terminal                    |
| 5       | 332-2836-02 | 2        | Block, Terminal - Sectional (TB3) |
| 6       | 332-2839    | 2        | Bracket, End                      |
| 7       | 332-2841    | 1        | Plate, End                        |
| 8       | 332-2842-12 | 2        | Tag, Terminal (11-20)             |

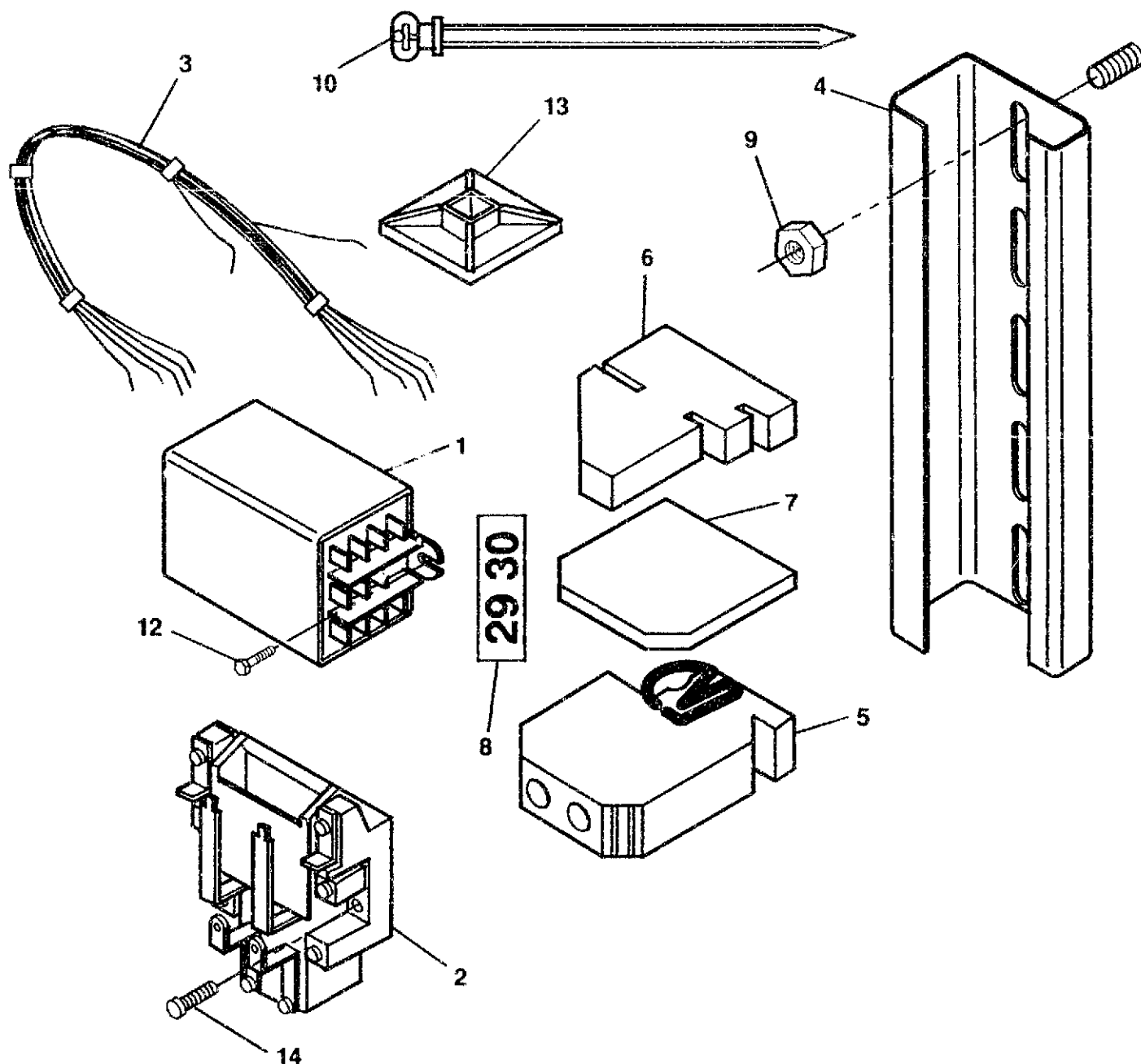
| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                          |
|---------|-------------|----------|-----------------------------------------------------------|
| 9       | 815-0680    | 4        | Screw, Machine - Pan Head Cross Recessed W/ET (#6-32 x 1) |
| 10      | 870-0221    | 2        | Nut, Hex W/ET (#8-32)                                     |
| 11      | 323-1409    | 1        | Pin Assembly, Ribbon                                      |
| 12      | 332-0941    | 10       | Tie, Cable                                                |
| 13      | 332-2842-13 | 2        | Tag, Terminal (21-30)                                     |
| 14      | 332-2420    | 3        | Mount, Tie - Cable                                        |

## 30 Place Terminal Block



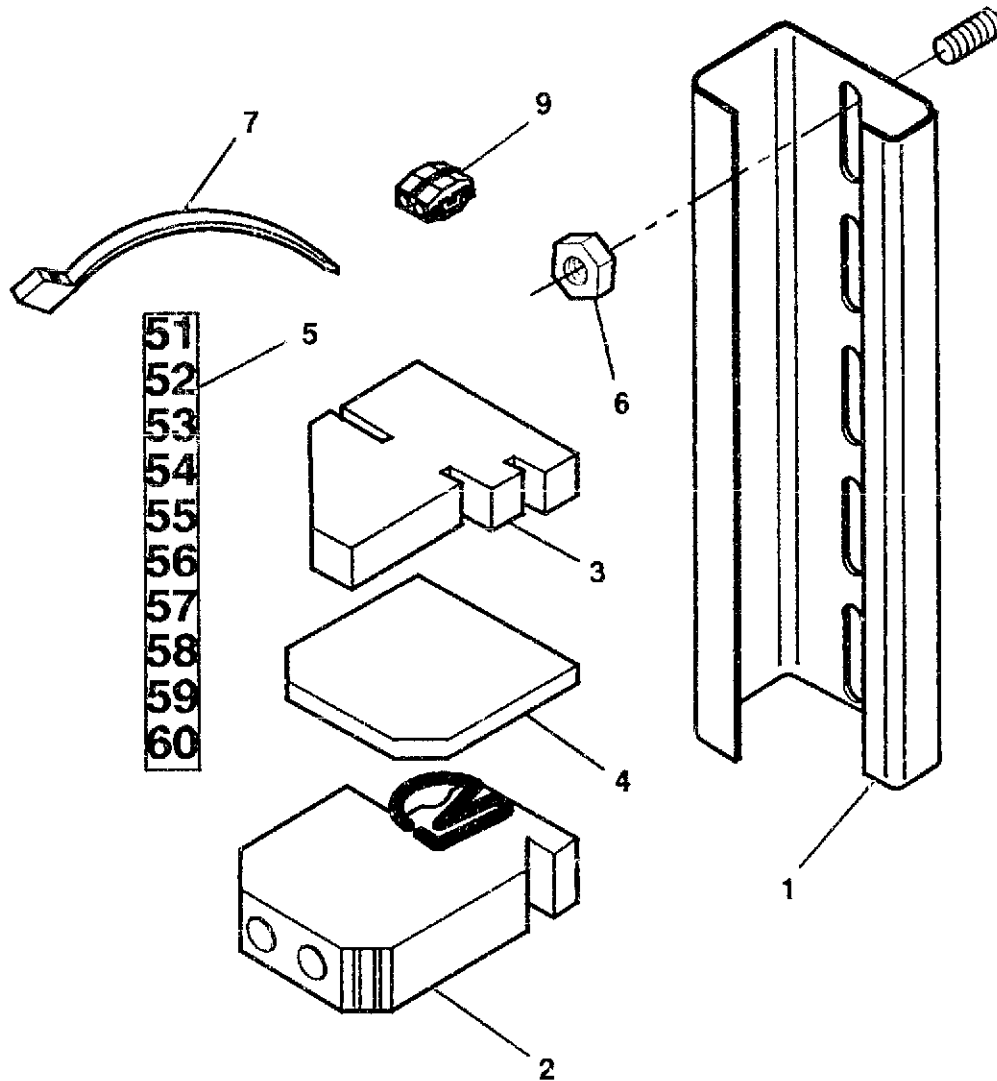
| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                  | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                      |
|---------|-------------|----------|-----------------------------------|---------|-------------|----------|-------------------------------------------------------|
| 1       | 332-2837-09 | 1        | Rail, Terminal                    | 7       | 332-2842-13 | 1        | Tag, Terminal (21 - 30)                               |
| 2       | 332-2839    | 2        | Bracket, End - Terminal           | 8       | 319-1490    | 1        | Bracket, Mounting (Not Shown)                         |
| 3       | 332-2836-02 | 3        | Block, Terminal - Sectional (TB3) | 9       | 332-0942    | 1        | Tie, Cable                                            |
| 4       | 332-2841    | 1        | Plate, End - Terminal             | 10      | 815-0651    | 4        | Screw, Machine - Round Head (#6-32 x 3/4) (Not Shown) |
| 5       | 332-2842-11 | 1        | Tag, Terminal (1-10)              |         |             |          |                                                       |
| 6       | 332-2842-12 | 1        | Tag, Terminal (11-20)             |         |             |          |                                                       |

## Load Shed



| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                  | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                     |
|---------|-------------|----------|-----------------------------------|---------|-------------|----------|------------------------------------------------------|
| 1       | 307-2575    | 1        | Relay, 3PDT (24 VAC) (K4)         | 8       | 332-2842-13 | 2        | Tag, Terminal (29 - 30)                              |
| 2       | 307-2697    | 1        | Relay, Power (K8)                 | 9       | 870-0221    | 4        | Nut, Hex W/ET (#8-32)                                |
| 3       | 338-2848    | 1        | Harness, Wiring - Load Shed       | 10      | 332-0941    | 15       | Tie, Cable                                           |
| 4       | 332-2837-09 | 1        | Rail, Terminal                    | 12      | 815-0122    | 1        | Screw, Hex Head - Self Tapp (#6-32 x 1/2)            |
| 5       | 332-2836-01 | 2        | Block, Terminal - Sectional (TB3) | 13      | 332-2420    | 2        | Mount, Tie - Cable                                   |
| 6       | 332-2839    | 2        | Bracket, End - Terminal           | 14      | 815-0447    | 2        | Screw, Round Head - Cross Recessed W/T (#8-32 x 3/4) |
| 7       | 332-2841    | 1        | Plate, End - Terminal             |         |             |          |                                                      |

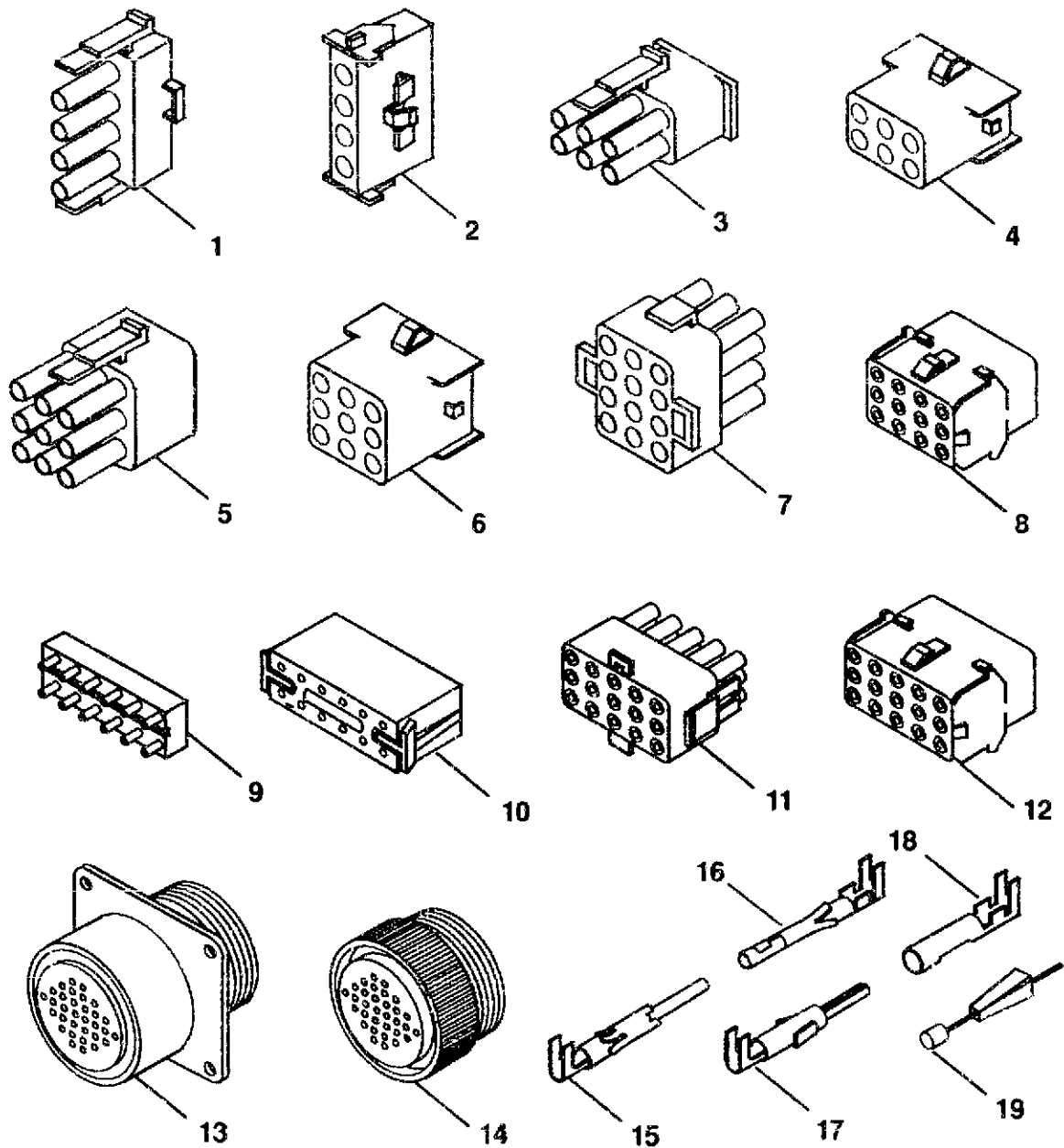
## Remote Control Signal



| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                  |
|---------|-------------|----------|-----------------------------------|
| 1       | 332-2837-09 | 1        | Rail, Terminal                    |
| 2       | 332-2836-01 | 2        | Block, Terminal - Sectional (TB3) |
| 3       | 332-2839    | 2        | Bracket, End - Terminal           |
| 4       | 332-2841    | 1        | Plate, End                        |
| 5       | 332-2842-16 | 2        | Tag, Terminal (51 - 60)           |

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                 |
|---------|----------|----------|----------------------------------|
| 6       | 870-0221 | 2        | Nut, Hex W/ET (#8-32)            |
| 7       | 332-0942 | 10       | Tie, Cable                       |
| 8       | NFS      | 20'      | Wire (20 Gauge, TEW) (Not Shown) |
| 9       | 332-2230 | 2        | Terminal, Tap - Plier            |

## Pins and Sockets

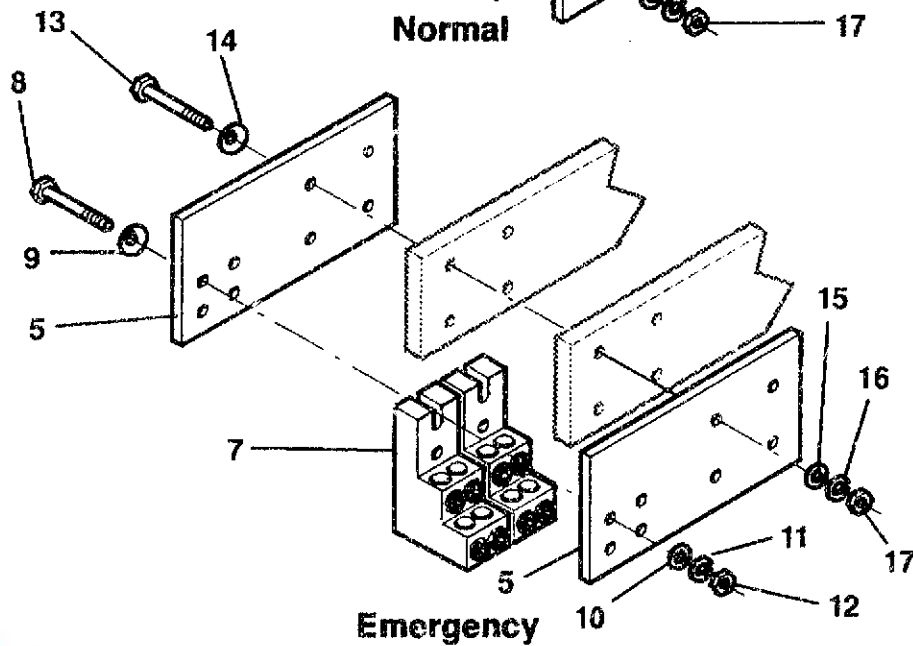
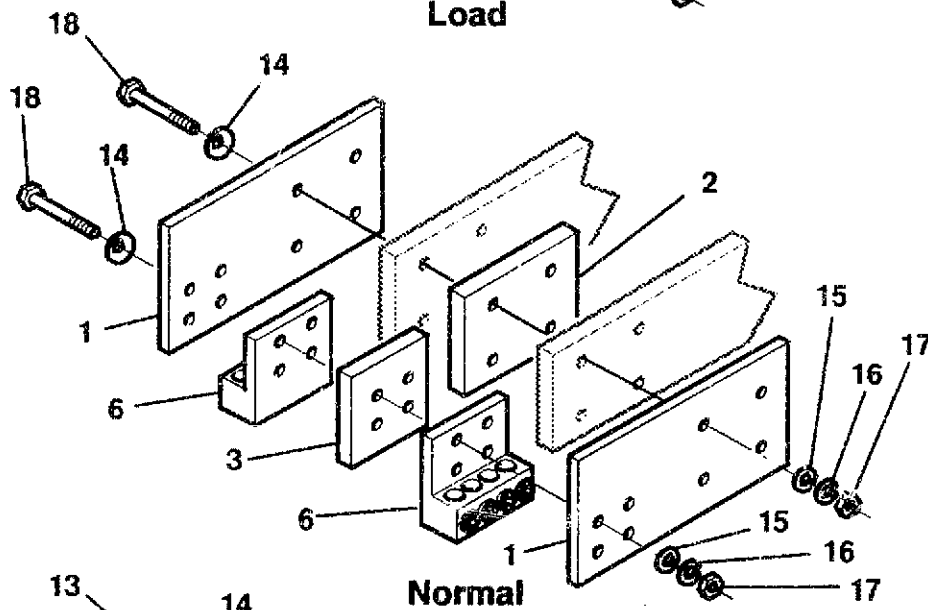
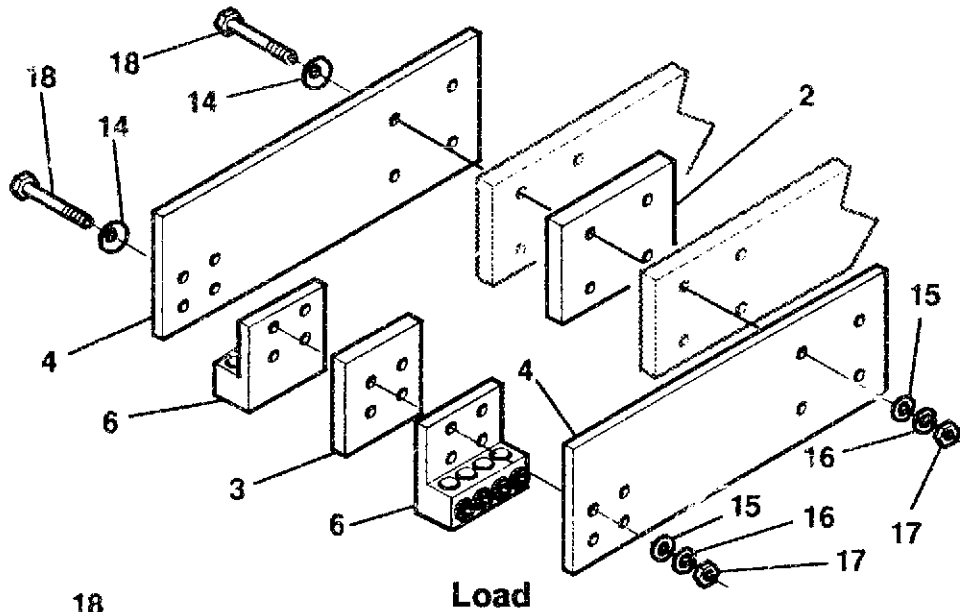


| REF NO. | PART NO. | QTY USED | PART DESCRIPTION     |
|---------|----------|----------|----------------------|
| 1       | 323-1292 | 1        | Housing, Pin - 4     |
| 2       | 323-1333 | 1        | Housing, Socket - 4  |
| 3       | 323-1317 | 1        | Housing, Pin - 6     |
| 4       | 323-1318 | 1        | Housing, Socket - 6  |
| 5       | 323-1291 | 1        | Housing, Pin - 9     |
| 6       | 323-1325 | 1        | Housing, Socket - 9  |
| 7       | 323-1314 | 1        | Housing, Pin - 12    |
| 8       | 323-1315 | 1        | Housing, Socket - 12 |
| 9       | 323-0983 | 1        | Housing, Pin - 12    |
| 10      | 323-0984 | 1        | Housing, Socket - 12 |
| 11      | 323-1252 | 1        | Housing, Pin - 15    |
| 12      | 323-1253 | 1        | Housing, Socket - 15 |
| 13      | 323-1207 | 1        | Housing, Pin - 24    |

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                             |
|---------|----------|----------|--------------------------------------------------------------|
| 14      | 323-1206 | 1        | Housing, Socket - 24                                         |
| 15      | 323-1194 | 1        | Pin, Contact (Used with Circular Housings) (18-14 AWG)       |
| 16      | 323-1195 | 1        | Socket, Contact (Used with Circular Housings) (18-14 AWG)    |
| 17      | 323-1199 | 1        | Pin, Contact (Used with Rectangular Housings) (20-14 AWG)    |
| 18      | 323-1200 | 1        | Socket, Contact (Used with Rectangular Housings) (20-14 AWG) |
| 19      | 420-0437 | 1        | Tool, Removal - Pin                                          |



## Lugs (1600/2000/3000 Amp)



## Lugs (1600/2000/3000 Amp)

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION   | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                          |
|---------|----------|----------|--------------------|---------|----------|----------|-------------------------------------------|
| 1       |          |          | Bus, Adapter - Lug | 7       | 332-1557 | 8        | Lug                                       |
|         | 337-2684 | 8        | 1600/2000 Amp      | 8       | 800-0055 | 16       | Screw, Cap - Hex Head<br>(3/8-16 x 2-1/4) |
|         | 337-2689 | 8        | 3000 Amp           |         |          |          |                                           |
| 2       |          |          | Bus, Spacer (1/4)  | 9       | 851-0022 | 16       | Washer, Spring - Conical (3/8)            |
|         | 337-2685 | 8        | 1600/2000 Amp      | 10      | 526-0030 | 16       | Washer, Flat (3/8)                        |
|         | 337-2690 | 8        | 3000 Amp           | 11      | 850-0050 | 16       | Washer, Lock (3/8)                        |
| 3       |          |          | Bus, Spacer (3/8)  | 12      | 862-0003 | 16       | Nut, Hex (3/8-16)                         |
|         | 337-2686 | 8        | 1600/2000 Amp      | 13      | 800-0095 | 16       | Screw, Cap - Hex Head<br>(1/2-13 x 2-1/4) |
|         | 337-2691 | 8        | 3000 Amp           |         |          |          |                                           |
| 4       |          |          | Bus, Adapter - Lug | 14      | 851-0023 | 80       | Washer, Spring - Conical (1/2)            |
|         | 337-2687 | 8        | 1600/2000 Amp      | 15      | 526-0219 | 80       | Washer, Flat (1/2)                        |
|         | 337-2692 | 8        | 3000 Amp           | 16      | 850-0060 | 80       | Washer, Lock (1/2)                        |
| 5       |          |          | Bus, Emergency     | 17      | 826-0016 | 80       | Nut, Hex (1/2)                            |
|         | 337-2688 | 8        | 1600/2000 Amp      | 18      | 800-0097 | 64       | Screw, Cap - Hex Head<br>(1/2-13 x 2-3/4) |
|         | 337-2693 | 8        | 3000 Amp           |         |          |          |                                           |
| 6       | 332-2427 | 16       | Lug                |         |          |          |                                           |

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