



# ILLUSTRATED PARTS BREAKDOWN

# R215F EXPANDER

## HOW TO USE THE IPB

### GENERAL

This IPB is compiled following the organization and nomenclature of the engineering drawing structure.

### MAJOR ASSEMBLY LOCATOR (When Applicable)

The Major Assembly Locator (first illustration) is an index that provides a description and a figure reference for all illustrations used in this manual.

### INDENTED PARTS LIST

This manual identifies each assembly being broken down (figure reference callout), and all parts of that assembly. Further breakdown of an assembly is shown by an asterisk (\*) preceding the item callouts in the Description Column. The number of asterisks preceding an item is used to denote the subordination of that item with respect to the Major Assembly. A single asterisk preceding an item description indicates that the item is part of the major assembly being illustrated. Items that are subordinate to single asterisks items, are denoted by two asterisks (\*\*) and immediately follow the related single asterisk item. This system of part identification provides a means for the user to identify the next higher assembly item and make alternate selections for parts when the required replacement part of assembly is not immediately available.

### COLUMN CALLOUT DESCRIPTION

**Figure and Item** - Indicates the figure number and item number of each part.

**Description** - Lists the name of the part and pertinent specifications (when required). Asterisks preceding the description denote the subordination of the part to the next higher assembly.

**DEC Part No.** - Lists the Digital part ordering number. A blank in this column indicates a Digital part number was not assigned at the time of publication.

**ECO Cut-In** - The notation at the top of this column indicates the ECO level of the system (option), at which the IPB was initially prepared. Subsequent ECO level designations, that modify existing parts or add new parts to the device, are inserted in the ECO Cut-In column next to the part that is added or modified.

**Used On Code** - Letters in this column correspond to the variation codes assigned in Figure 1. Parts with an Alpha notation(s) are used only in those option variations. A blank indicates that the part is used on all option variations.

**Ref Fig No.** - A cross reference between illustrations. For each Major Assembly, the number in this column denotes the figure of the next higher assembly. For all subassemblies, the number in this column denotes the figure showing additional detailed breakdown.

**PART NUMBER/PART DESCRIPTION INDEX SECTION**  
Parts are indexed both numerically and alphabetically by description, referenced to a location within the IPB, by figure number and item number.

## REVISION HISTORY

| PRINTING     | ECO LEVEL |             | DATE      | OTHER IPB<br>MANUALS<br>REFERENCED |
|--------------|-----------|-------------|-----------|------------------------------------|
|              |           |             |           |                                    |
| 2nd Printing | R215F     | 00000-00001 | 26-OCT-90 | N/A                                |
|              | 70-26207  | 00000-00000 |           |                                    |
|              | 70-25446  | 00000-00000 |           |                                    |
|              | 70-25454  | 00000-00001 |           |                                    |
|              | 70-26222  | 00000-00000 |           |                                    |
|              | H7868     | 00000-00006 |           |                                    |
|              | 70-25453  | 00000-00000 |           |                                    |
|              | 70-26223  | 00000-00000 |           |                                    |
|              | 70-25432  | 00000-00001 |           |                                    |
|              | 70-25433  | 00000-00001 |           |                                    |
|              | 70-25434  | 00000-00000 |           |                                    |
|              |           |             |           |                                    |
|              |           |             |           |                                    |

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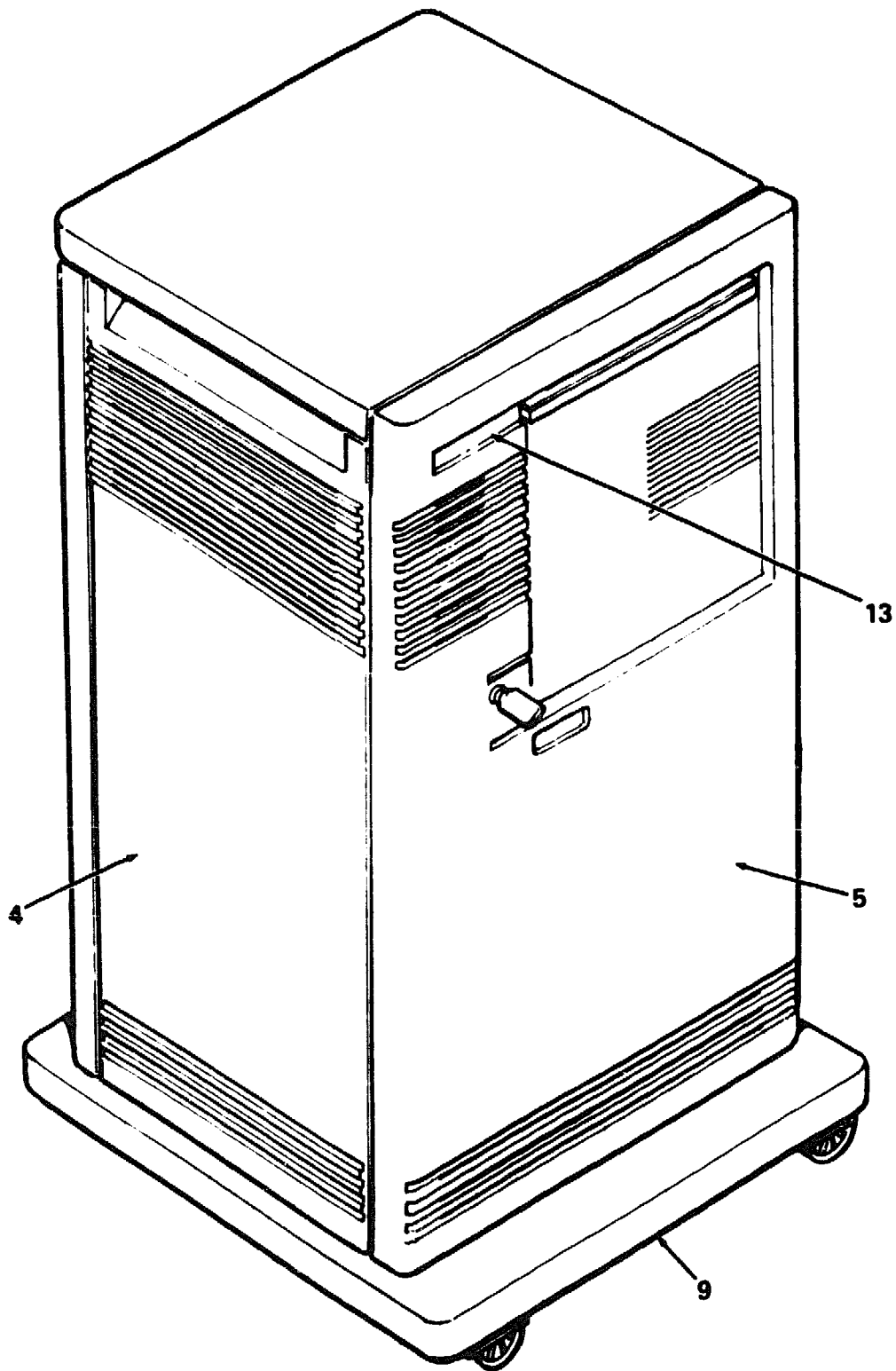
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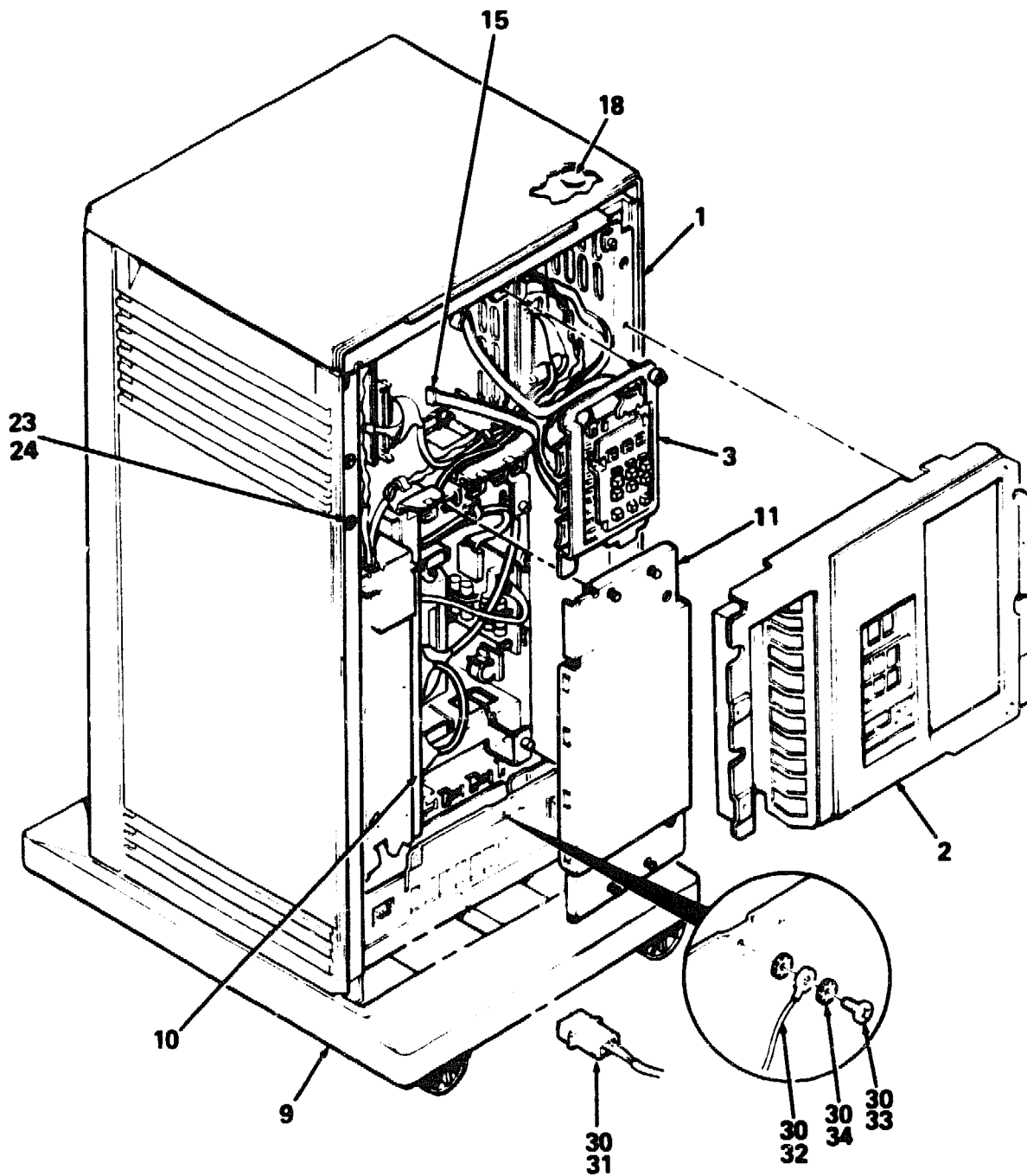
DEC  
DECUS  
DSSI  
MicroVAX  
PDP  
rtVAX  
TK  
VAX  
X



R215F-01

**Figure 1. R215F Expander (Sheet 1 of 4)**

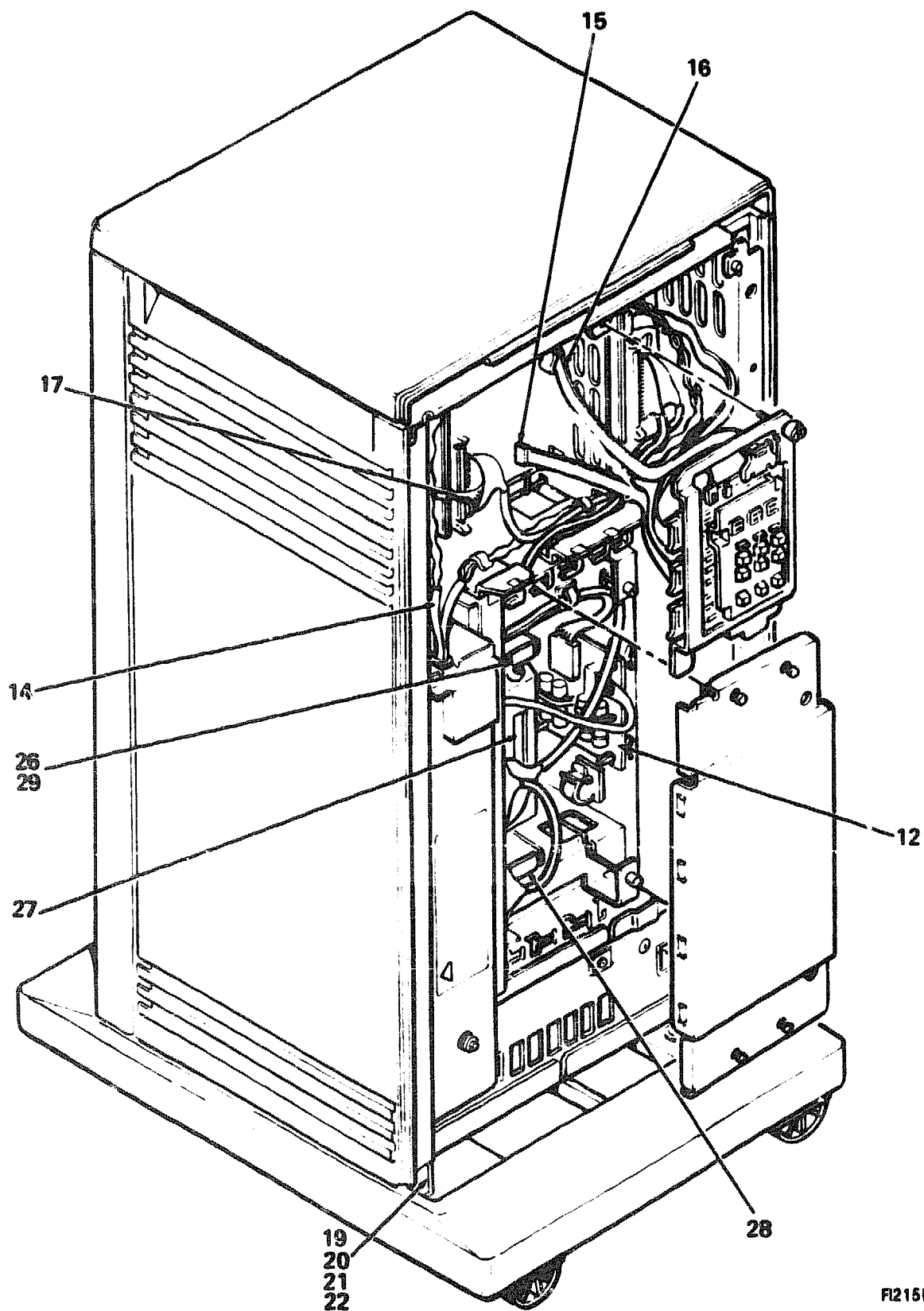




R215F-01A

**Figure 1. R215F Expander (Sheet 2 of 4)**

**PARTS LIST**



R215F-01B

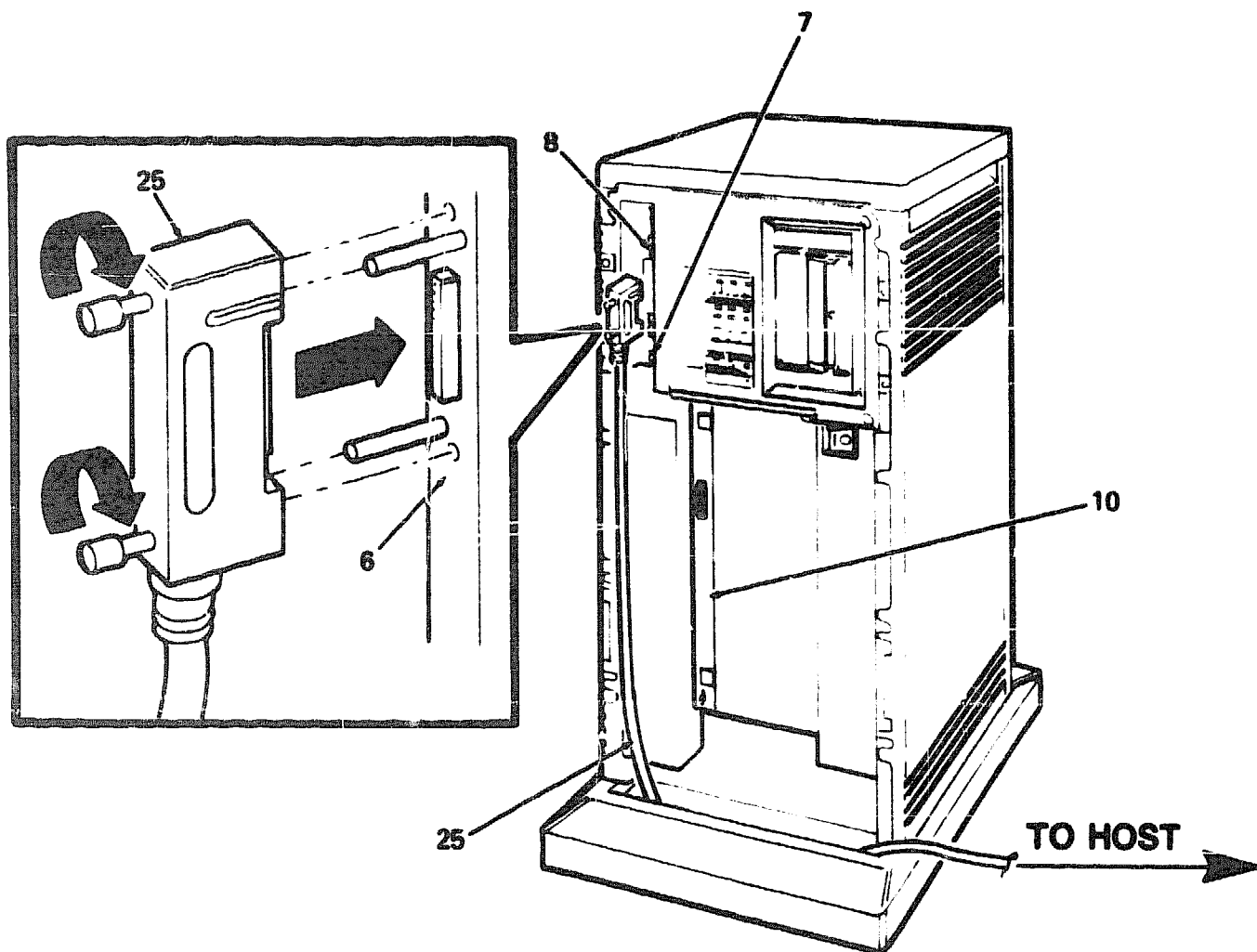
**Figure 1. R215F Expander (Sheet 3 of 4)**

PARTS LIST



IPB-R215F

5



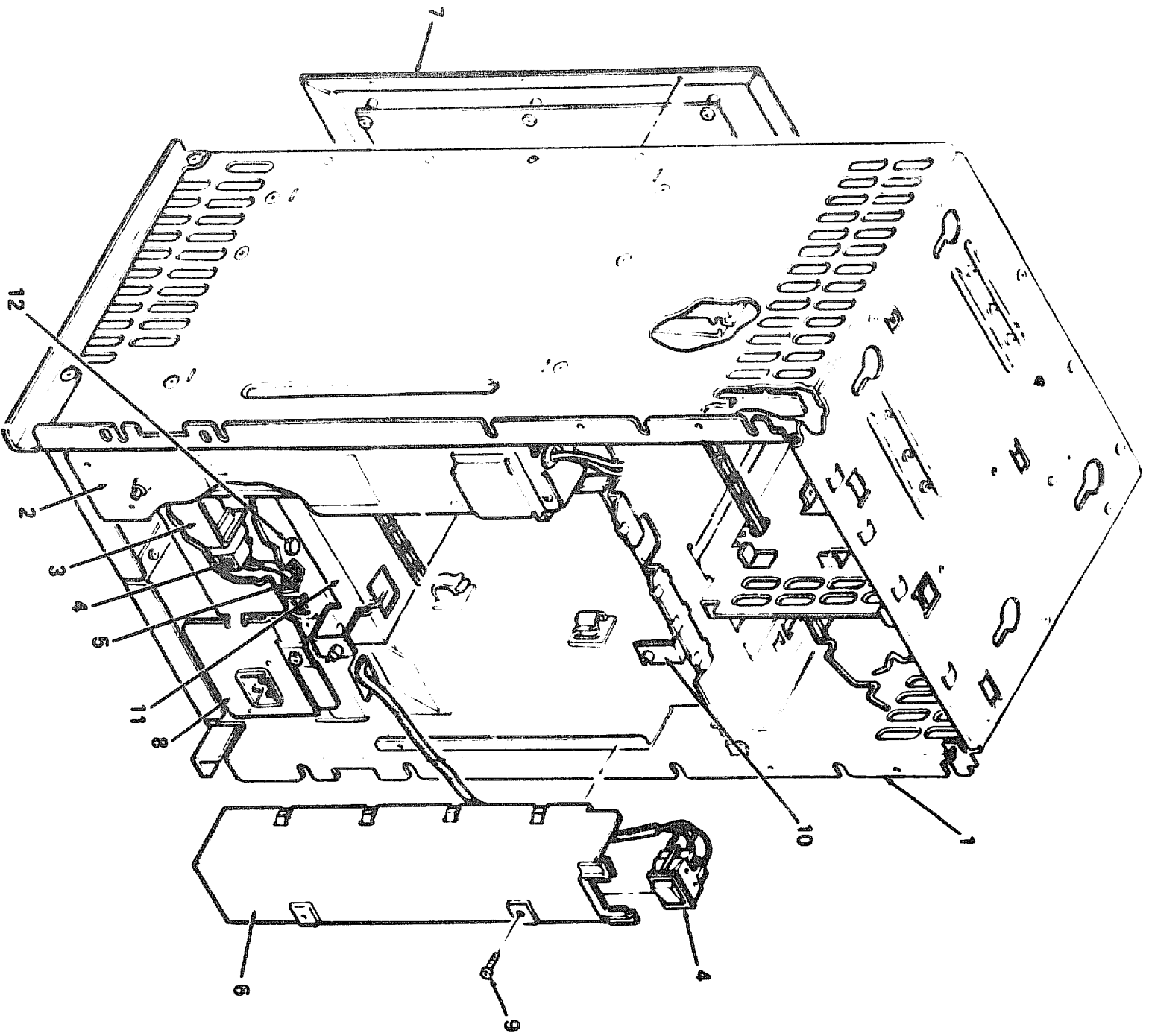
R215F-01C

Figure 1. R215F Expander (Sheet 4 of 4)

| FIG. &<br>ITEM<br>NO. | DESCRIPTION                                                              | DEC<br>PART NO. | ECO<br>CUT-IN<br>R215F<br>00001 | USED<br>ON<br>CODE | REF<br>FIG<br>NO. |
|-----------------------|--------------------------------------------------------------------------|-----------------|---------------------------------|--------------------|-------------------|
| 1-                    | R215F EXPANDER                                                           |                 |                                 |                    |                   |
|                       | Code A - Used on R215F-A2 (120V)<br>(w/o Skins)                          | R215F-A2        |                                 | A                  |                   |
|                       | Code B - Used on R215F-A3 (240V)<br>(w/o Skins)                          | R215F-A3        |                                 | B                  |                   |
|                       | Code C - Used on R215F-B2 (120V)<br>(w/Skins)                            | R215F-B2        |                                 | C                  |                   |
|                       | Code D - Used on R215F-B3 (240V)<br>(w/Skins)                            | R215F-B3        |                                 | D                  |                   |
| 1                     | *CHASSIS ASSEMBLY                                                        | 70-26207-01     |                                 | AC                 | 2                 |
|                       | *CHASSIS ASSEMBLY                                                        | 70-26207-02     |                                 | BD                 | 2                 |
| 2                     | *Panel Assembly, Mass Storage<br>(Replaces 70-26252-01)                  | 70-25795-02     | 00001                           |                    |                   |
| 3                     | *PANEL ASSEMBLY, CONTROL                                                 | 70-25453-01     |                                 |                    | 7                 |
| 4                     | *ENCLOSURE ASSEMBLY, SHELL                                               | 70-25432-01     |                                 | CD                 | 9                 |
| 5                     | *PANEL ASSEMBLY, FRONT                                                   | 70-25433-02     |                                 | CD                 | 10                |
| 6                     | *Connector Assembly, Plate                                               | 70-26208-01     |                                 |                    |                   |
| 7                     | *Screw, Sems Phi Truss Hd No. 6-32 x 1/4                                 | 90-00049-30     |                                 |                    |                   |
| 8                     | *Screw, Mach Flat Hd (Metric) 02.5M x .08                                | 90-10917-01     |                                 |                    |                   |
| 9                     | *BASE ASSEMBLY                                                           | 70-25434-01     |                                 | CD                 | 11                |
| 10                    | *BULKHEAD ASSEMBLY, DSSI DUAL PORT                                       | 70-26223-01     |                                 |                    | 8                 |
| 11                    | *Cover Assembly, Card Cage                                               | 70-25808-01     |                                 |                    |                   |
| 12                    | *Module, Capacitor 12V                                                   | 54-19288-01     |                                 |                    |                   |
| 13                    | *Medallion, R215F                                                        | 74-36884-06     |                                 | CD                 |                   |
| 14                    | *Harness Assembly, Wire                                                  | 17-01965-01     |                                 |                    |                   |
| 15                    | *Cable Assembly, Flat, 10 Cond 10 Pin                                    | 17-01936-02     |                                 |                    |                   |
| 16                    | *Cable Assembly, Flat, 10 Cond 2ft Brown                                 | 17-01964-01     |                                 |                    |                   |
| 17                    | *Cable Assembly, 25 TWP 50 Pin D-SUB                                     | 17-02210-01     |                                 |                    |                   |
| 18                    | *Plug, Button                                                            | 90-07064-00     |                                 | AB                 |                   |
| 19                    | *Bracket, Base Mounting                                                  | 74-36712-01     |                                 | CD                 |                   |
| 20                    | *Bracket, Base Mounting                                                  | 74-36712-02     |                                 | CD                 |                   |
| 21                    | *Screw, Captive Socket Hex Hd No. 1/4-20 x 1/2<br>(Replaces 90-06320-08) | 90-06370-08     |                                 | CD                 |                   |
| 22                    | *Washer, Lock Internal Steel                                             | 90-08637-00     |                                 | CD                 |                   |
| 23                    | *Screw, Self-Tap Phi Pan Hd No. 8-16 x 1/2                               | 90-09630-08     |                                 | CD                 |                   |
| 24                    | *Washer, Flat                                                            | 90-06661-00     |                                 | CD                 |                   |
| 25                    | *Cable Assembly, DSSI (BC21M-09)                                         | 17-02152-03     |                                 |                    |                   |
| 26                    | *Shock Mount Assembly, RF30 (Top) (See Note)                             | 70-25452-02     |                                 |                    |                   |
| 27                    | *RF30 ISE (See Note)                                                     | RF30-EA         |                                 |                    |                   |
| 28                    | *Shock Mount Assembly, RF30 (Bottom)<br>(See Note)                       | 70-25452-01     |                                 |                    |                   |
| 29                    | *Bracket, RF30 ISE (See Note)                                            | 74-36498-01     |                                 |                    |                   |
|                       | NOTE: Items 26 Thru 29 Shown Here For<br>Reference Only.                 |                 |                                 |                    |                   |

| FIG. &<br>ITEM<br>NO. | DESCRIPTION                                                                                                         | DEC<br>PART NO. | ECO<br>CUT-IN<br>R215F<br>00001 | USED<br>ON<br>CODE | REF<br>FIG<br>NO. |
|-----------------------|---------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------|--------------------|-------------------|
| 30                    | *KIT. SEQUENCING AND GROUNDING                                                                                      | H4010-AA        |                                 |                    |                   |
| 31                    | **Cable Assembly, Power Sequence                                                                                    | 17-02637-01     |                                 |                    |                   |
| 32                    | **Cable Assembly, Ground                                                                                            | 12-13756-A8     |                                 |                    |                   |
| 33                    | **Screw, Phi Truss Hd No. 6-32 x 1/2                                                                                | 90-06024-03     |                                 |                    |                   |
| 34                    | **Washer, Self-Lock                                                                                                 | 90-07649-00     |                                 |                    |                   |
| 35                    | **Label, Ground                                                                                                     | 36-12680-04     |                                 |                    |                   |
|                       | KITS (Not Shown)                                                                                                    |                 |                                 |                    |                   |
|                       | *ACCESSORY KIT                                                                                                      | 70-25807-03     |                                 | AB                 |                   |
|                       | **Screwdriver, Flat Blade 3/16 x 4                                                                                  | 47-00042-00     |                                 |                    |                   |
|                       | **Lens, Encoder Set                                                                                                 | 12-28766-16     |                                 |                    |                   |
|                       | *ACCESSORY KIT                                                                                                      | 70-25807-04     |                                 | CD                 |                   |
|                       | **Screwdriver, Flat Blade 3/16 x 4                                                                                  | 47-00042-00     |                                 |                    |                   |
|                       | **Keys, Plastic                                                                                                     | 12-17119-01     |                                 |                    |                   |
|                       | **Lens, Encoder Set                                                                                                 | 12-28766-19     |                                 |                    |                   |
|                       | LABELS (Not Shown)                                                                                                  |                 |                                 |                    |                   |
|                       | *Label, "Shipping Bracket"                                                                                          | 36-29343-01     |                                 |                    |                   |
|                       | *Label, "Caution" (Replaces 36-02210-01)                                                                            | 36-30652-01     | 00001                           |                    |                   |
|                       | *Label, "Warning Equipment Rating 120V"                                                                             | 36-17905-16     |                                 | AC                 |                   |
|                       | *Label, "Warning Equipment Rating 240V"                                                                             | 36-17905-17     |                                 | BD                 |                   |
|                       | *Label, "Logo R215F"                                                                                                | 36-29304-03     |                                 | AB                 |                   |
|                       | ITEMS (Not Shown) (Shipped Loose in Poly Bag)                                                                       |                 |                                 |                    |                   |
|                       | *Label, "Control Panel"                                                                                             | 36-30973-01     |                                 |                    |                   |
|                       | *Label, "Post Card"                                                                                                 | 36-30422-08     |                                 |                    |                   |
|                       | *Label, "Serial/Model 100-120V"                                                                                     | 36-27329-07     |                                 | AC                 |                   |
|                       | *Label, "Serial/Model 220- 240V"                                                                                    | 36-27329-09     |                                 | BD                 |                   |
|                       | *Label, "Base 100-120V"                                                                                             | 36-29305-01     |                                 | AC                 |                   |
|                       | *Label, "Base 220- 240V"                                                                                            | 36-29305-05     |                                 | BD                 |                   |
|                       | *Cord, Power (US/Japan/Canada) (120V)<br>(BN20M-2E)                                                                 | 17-00083-11     |                                 | AC                 |                   |
|                       | *Cord, Power (US/Japan/Canada) (240V)<br>(BN20N-2E)                                                                 | 17-00083-12     |                                 | BD                 |                   |
|                       | *Cord, Power (Austria,Belgium,France,W.Germ,<br>Finland,Holland,Norway,Sweden,Portugal,<br>Spain) (240V) (BN03B-2E) | 17-00199-01     |                                 | BD                 |                   |
|                       | *Cord, Power (UK/Ireland) (240V) (BN19B-2E)                                                                         | 17-00209-09     |                                 | BD                 |                   |
|                       | *Cord, Power (Switzerland) (240V) (BN19F-2E)                                                                        | 17-00210-06     |                                 | BD                 |                   |
|                       | *Cord, Power (Australia/New Zealand) (240V)<br>(BN19J-2E)                                                           | 17-00198-08     |                                 | BD                 |                   |

| FIG.&<br>ITEM<br>NO. | DESCRIPTION                                      | DEC<br>PART NO. | ECO<br>CUT-IN<br>R215F<br>00000 | USED<br>ON<br>CODE | REF<br>FIG<br>NO. |
|----------------------|--------------------------------------------------|-----------------|---------------------------------|--------------------|-------------------|
|                      | ITEMS (Not Shown) (Shipped Loose in Poly Bag)    |                 |                                 |                    |                   |
|                      | * Cord, Power (Denmark) (240V) (BN19L-2E)        | 17-00310-09     |                                 | BD                 |                   |
|                      | * Cord, Power (Italy) (240V) (BN19N-2E)          | 17-00364-09     |                                 | BD                 |                   |
|                      | * Cord, Power (India/S. Africa) (240V)(BN19T-2E) | 17-00456-09     |                                 | BD                 |                   |
|                      | * Cord, Power (Israel) (240V) (BN19Y-2E)         | 17-00457-09     |                                 | BD                 |                   |

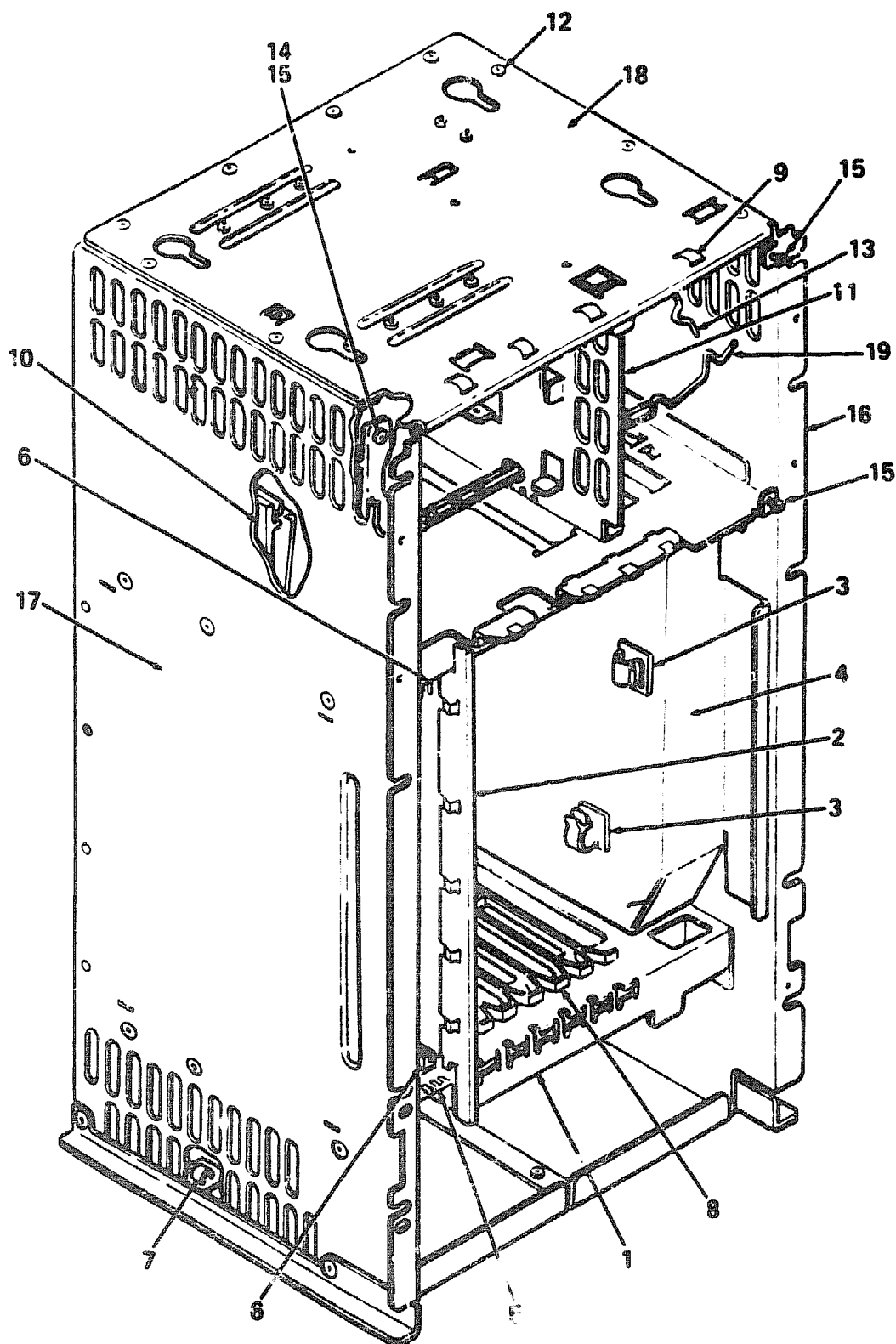


R215F-02

Figure 2. Chassis Assembly

PARTS LIST

| FIG. &<br>ITEM<br>NO. | DESCRIPTION                             | DEC<br>PART NO. | ECO<br>CUT-IN<br>70-25807<br>00000 | USED<br>ON<br>CODE | REF<br>FIG<br>NO. |
|-----------------------|-----------------------------------------|-----------------|------------------------------------|--------------------|-------------------|
| 2-                    | CHASSIS ASSEMBLY                        | 70-26207-01     |                                    | AC                 | 1                 |
|                       | CHASSIS ASSEMBLY                        | 70-26207-02     |                                    | BD                 | 1                 |
| 1                     | *FRAME ASSEMBLY                         | 70-25446-01     |                                    |                    | 3                 |
| 2                     | *POWER SUPPLY ASSEMBLY, H7868 (120V)    | H7868-A         |                                    | AC                 | 6                 |
|                       | *POWER SUPPLY ASSEMBLY, H7868 (240V)    | H7868-B         |                                    | BD                 | 6                 |
| 3                     | *FAN ASSEMBLY                           | 70-25454-01     |                                    |                    | 4                 |
| 4                     | *Harness Assembly, Wire                 | 17-01938-01     |                                    |                    |                   |
| 5                     | *Tie, Cable                             | 90-07880-00     |                                    |                    |                   |
| 6                     | *Switch Assembly, AC                    | 70-25455-01     |                                    |                    |                   |
| 7                     | *PANEL ASSEMBLY, BACK                   | 70-26222-01     |                                    |                    | 5                 |
| 8                     | *Grill, Safety                          | 70-25450-01     |                                    |                    |                   |
| 9                     | *Screw, Sems Phi Pan Hd No. 6-32 x 1/4  | 90-10174-00     |                                    |                    |                   |
| 10                    | *Bracket Assembly, Top Shock            | 70-25803-01     |                                    |                    |                   |
| 11                    | *Bracket Assembly, Bottom Shock         | 70-25802-01     |                                    |                    |                   |
| 12                    | *Screw, Hex Hd Roll Thd No. 6-32 x 5/16 | 90-10075-03     |                                    |                    |                   |



R215F-03

Figure 3. Frame Assembly

PARTS LIST

| FIG. &<br>ITEM<br>NO. | DESCRIPTION                                  | DEC<br>PART NO. | ECO<br>CUT-IN<br>70-25446<br>00000 | USED<br>ON<br>CODE | REF<br>FIG<br>NO. |
|-----------------------|----------------------------------------------|-----------------|------------------------------------|--------------------|-------------------|
| 3-                    | FRAME ASSEMBLY                               | 70-25446-01     |                                    |                    | 2                 |
| 1                     | *Card Cage, Bottom (Weldment)                | 70-25443-01     |                                    |                    |                   |
| 2                     | *Filler, Gap                                 | 74-33971-01     |                                    |                    |                   |
| 3                     | *Clip, 1/2 inch Cable                        | 12-18912-00     |                                    |                    |                   |
| 4                     | *Baffle                                      | 74-36583-01     |                                    |                    |                   |
| 5                     | *Grommet                                     | 12-25469-03     |                                    |                    |                   |
| 6                     | *Guide, Card                                 | 12-26912-01     |                                    |                    |                   |
| 7                     | *Clip, Adhesive Backed Cable                 | 12-21249-01     |                                    |                    |                   |
| 8                     | *Guide, 6 Slot Card                          | 74-33564-01     |                                    |                    |                   |
| 9                     | *Finger, Grounding                           | 12-26922-01     |                                    |                    |                   |
| 10                    | *Clip, Flat Cable                            | 12-13715-00     |                                    |                    |                   |
| 11                    | *Card Cage Assembly, Top                     | 70-25771-01     |                                    |                    |                   |
| 12                    | *Rivet, Blind                                | 90-00030-40     |                                    |                    |                   |
| 13                    | *Top Assembly (Weldment) (Shipping Bracket)  | 70-25445-01     |                                    |                    |                   |
| 14                    | *Support, Connector                          | 74-36517-01     |                                    |                    |                   |
| 15                    | *Screw, Fillister Slotted Hd No. 6-32 x 5/16 | 12-27451-01     |                                    |                    |                   |
| 16                    | *Panel, Right                                | 74-36510-01     |                                    |                    |                   |
| 17                    | *Panel, Left                                 | 74-36511-01     |                                    |                    |                   |
| 18                    | *Cover, Top                                  | 74-36515-01     |                                    |                    |                   |
| 19                    | *Bracket Assembly, Shipping                  | 70-25444-01     |                                    |                    |                   |
|                       | LABEL (Not Shown)                            |                 |                                    |                    |                   |
|                       | *Label, "Ground Symbol"                      | 36-12680-04     |                                    |                    |                   |

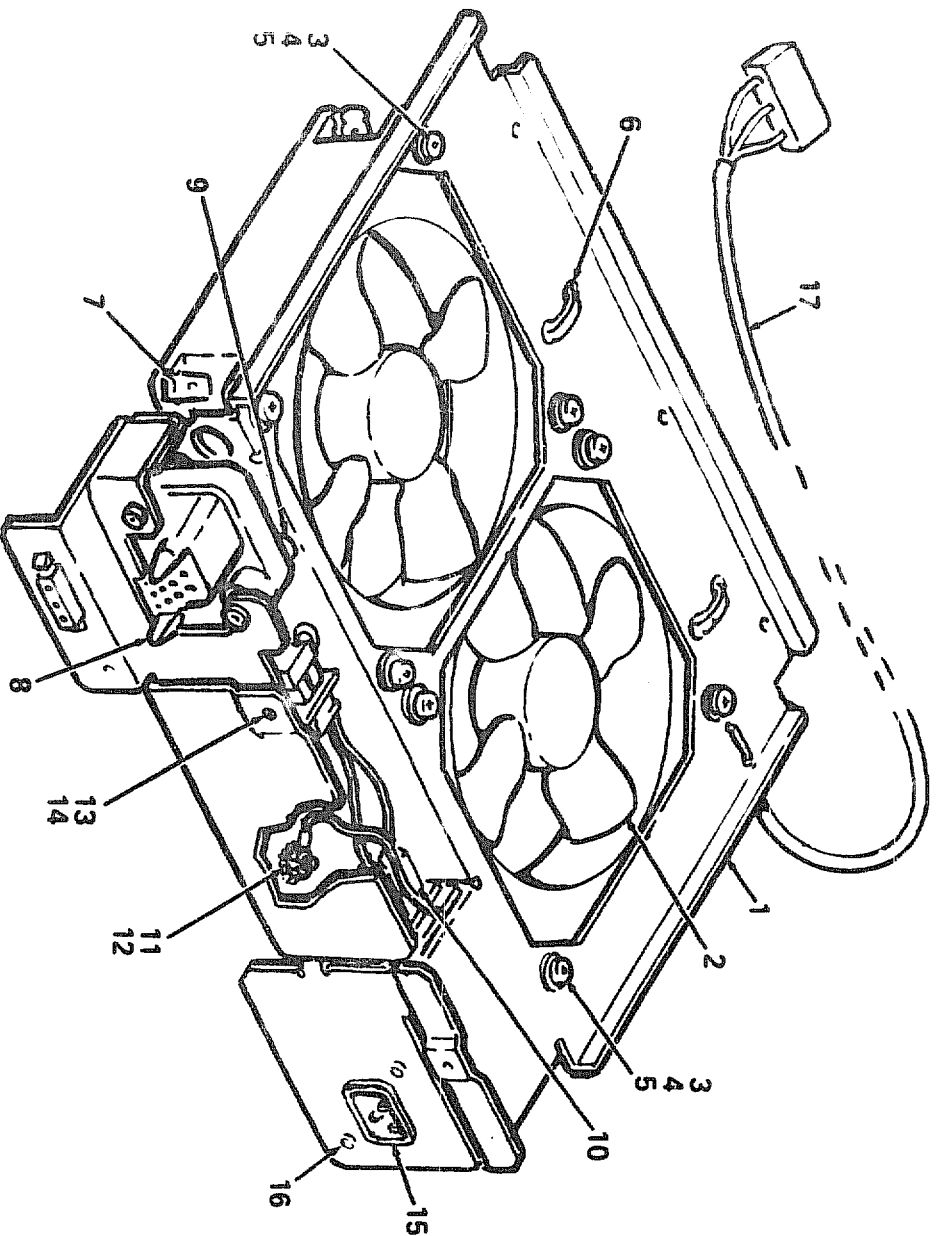


Figure 4. Fan Assembly

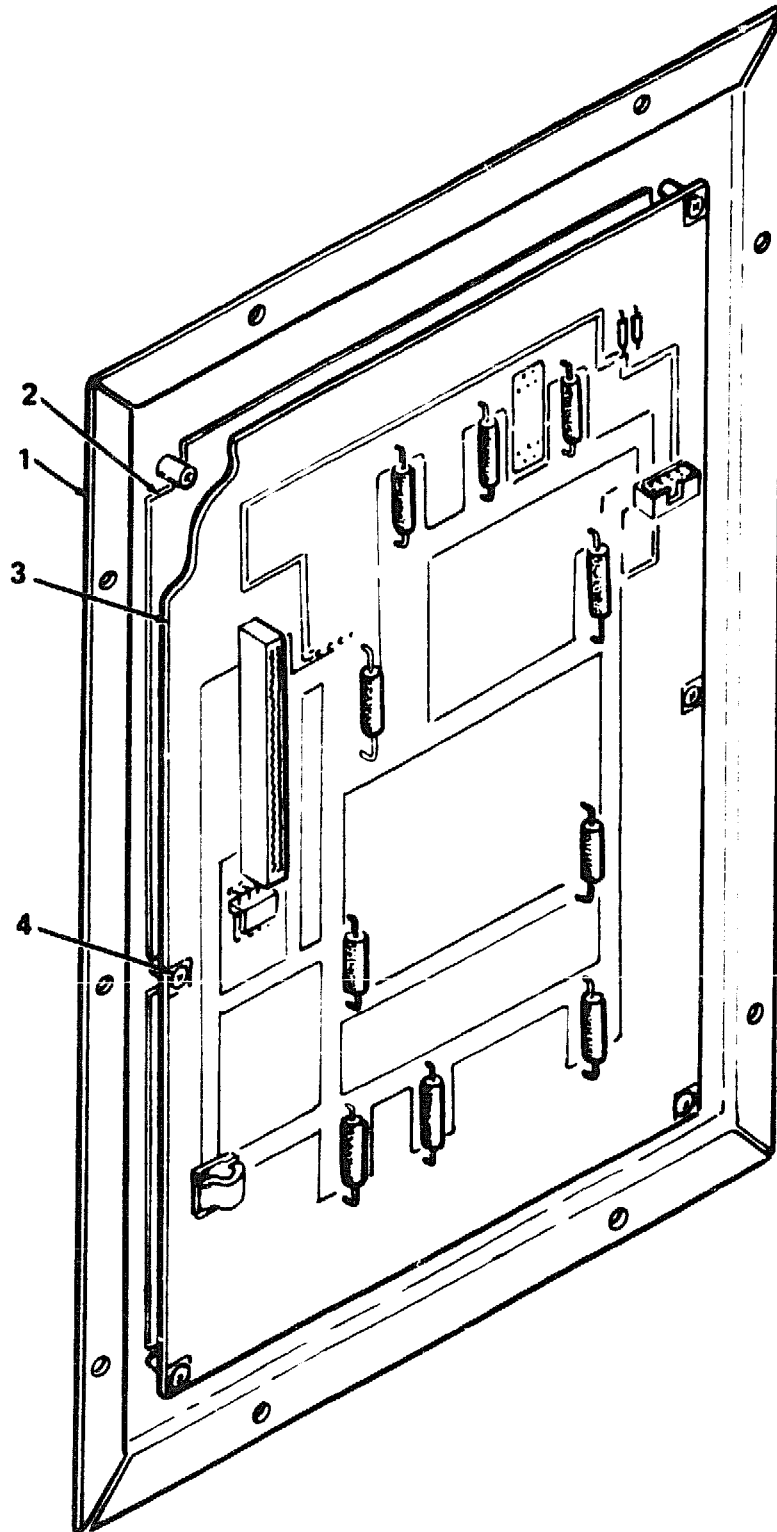
R215F-04

PARTS LIST

IPB-R215F

1.1

| FIG. &<br>ITEM<br>NO. | DESCRIPTION                             | DEC<br>PART NO. | ECO<br>CUT-IN<br>70-25454<br>00000 | USED<br>ON<br>CODE | REF<br>FIG<br>NO. |
|-----------------------|-----------------------------------------|-----------------|------------------------------------|--------------------|-------------------|
| 4-                    | FAN ASSEMBLY                            | 70-25454-01     |                                    |                    | 1                 |
| 1                     | *Waldman, Fan Tray                      | 70-25449-01     |                                    |                    |                   |
| 2                     | *Fan, Tube Axial, 4 1/2 inch            | 12-23609-04     |                                    |                    |                   |
| 3                     | *Grommet, Round Rubber                  | 90-07013-00     |                                    |                    |                   |
| 4                     | *Washer, Flat                           | 90-06659-00     |                                    |                    |                   |
| 5                     | *Screw, Sems Phi Pan Hd No. 6-32 x 5/16 | 90-00049-57     |                                    |                    |                   |
| 6                     | *Tie, Cable                             | 90-07880-00     |                                    |                    |                   |
| 7                     | *Clip, Fan Mounting                     | 90-09165-00     |                                    |                    |                   |
| 8                     | *Harness Assembly, Wire                 | 17-01939-01     |                                    |                    |                   |
| 9                     | *Screw, Shoulder No. 8-32               | 12-27034-01     |                                    |                    |                   |
| 10                    | *Clip, Cable                            | 12-21249-01     |                                    |                    |                   |
| 11                    | *Washer, Flat                           | 90-06664-00     |                                    |                    |                   |
| 12                    | *Nut, Kep No. 10-32                     | 90-06565-00     |                                    |                    |                   |
| 13                    | *Screw, Sems Phi Pan Hd No. 6-32 x 3/8  | 90-00049-24     |                                    |                    |                   |
| 14                    | *Washer, Retaining                      | 12-30421-01     |                                    |                    |                   |
| 15                    | *Filter, EMI Line                       | 12-28736-01     |                                    |                    |                   |
| 16                    | *Screw, Sems Phi Pan Hd No. 8-32 x 5/16 | 90-10174-01     |                                    |                    |                   |
| 17                    | *Harness Assembly, Wire                 | 17-01981-01     |                                    |                    |                   |
|                       | LABELS (Not Shown)                      |                 |                                    |                    |                   |
|                       | *Label, "Ground Symbol"                 | 36-12680-00     |                                    |                    |                   |
|                       | *Label, "Ground Symbol w/Circle"        | 36-12680-02     |                                    |                    |                   |

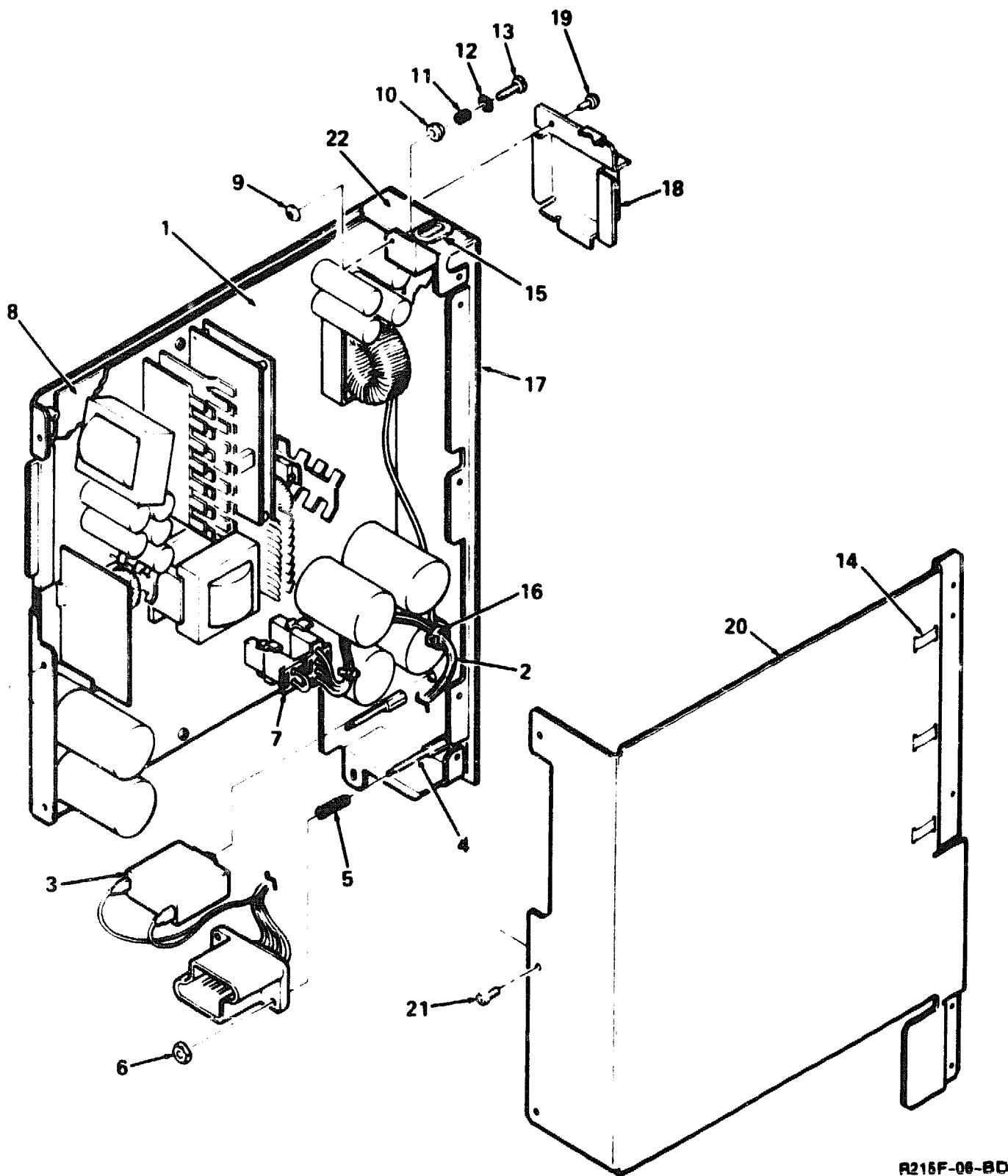


R215F-04

**Figure 5. Panel Assembly, Back**

PARTS LIST

| FIG. &<br>ITEM<br>NO. | DESCRIPTION                            | DEC<br>PART NO. | ECO<br>CUT-IN<br>70-26222<br>00000 | USED<br>ON<br>CODE | REF<br>FIG<br>NO. |
|-----------------------|----------------------------------------|-----------------|------------------------------------|--------------------|-------------------|
| 5-                    | PANEL ASSEMBLY, BACK                   | 70-26222-01     |                                    |                    | 2                 |
| 1                     | *Support Panel, Back Panel             | 74-36508-01     |                                    |                    |                   |
| 2                     | *Insulator, Back Panel                 | 74-36509-01     |                                    |                    |                   |
| 3                     | *Module, Back Panel                    | 54-19278-01     |                                    |                    |                   |
| 4                     | *Screw, Self-Tap Truss Hd No. 6 x 5/16 | 90-00063-78     |                                    |                    |                   |



R215F-06-BD

**Figure 6. Power Supply Assembly, H7868**

**PARTS LIST**

| FIG. &<br>ITEM<br>NO. | DESCRIPTION                                                                | DEC<br>PART NO.    | ECO<br>CUT-IN<br>H7868<br>00000 | USED<br>ON<br>CODE | REF<br>FIG<br>NO. |
|-----------------------|----------------------------------------------------------------------------|--------------------|---------------------------------|--------------------|-------------------|
| 6-                    | POWER SUPPLY ASSEMBLY, H7868 (120V)<br>POWER SUPPLY ASSEMBLY, H7868 (240V) | H7868-A<br>H7868-B |                                 | A<br>B             | 2<br>2            |
| 1                     | *Module, Power Supply                                                      | 54-16876-01        |                                 |                    |                   |
| 2                     | *Harness Assembly, H7868                                                   | 70-23366-01        |                                 |                    |                   |
| 3                     | *Circuit Breaker                                                           | 12-19912-06        |                                 |                    |                   |
| 4                     | *Support, Spring                                                           | 74-34431-01        |                                 |                    |                   |
| 5                     | *Spring, Compression                                                       | 12-27235-02        |                                 |                    |                   |
| 6                     | *Nut, Kep No. 6-32                                                         | 90-08055-00        |                                 |                    |                   |
| 7                     | *Jumper Assembly, 2-Pin Mate-N-Lok 120V                                    | 70-23770-01        |                                 | A                  |                   |
| 8                     | *Pad, Insulator                                                            | 74-33418-01        |                                 |                    |                   |
| 9                     | *Washer, Retaining (Replaces 12-27764-01)                                  | 12-30421-01        | 00004                           |                    |                   |
| 10                    | *Bushing, Captive Screw                                                    | 12-27446-01        |                                 |                    |                   |
| 11                    | *Spring, Compression                                                       | 12-27445-01        |                                 |                    |                   |
| 12                    | *Washer, External Tooth Lock No. 6                                         | 90-07649-00        |                                 |                    |                   |
| 13                    | *Screw, Phi Shoulder Hd No. 6-32 x 1/2                                     | 12-27772-01        |                                 |                    |                   |
| 14                    | *Finger, Grounding                                                         | 12-26922-01        |                                 |                    |                   |
| 15                    | *Grommet, Round Rubber (deleted)                                           | 90-07015-00        | 00004                           |                    |                   |
| 16                    | *Tie, Cable (deleted)                                                      | 90-07031-00        | 00004                           |                    |                   |
| 17                    | *Enclosure, Power Supply                                                   | 74-33416-02        |                                 |                    |                   |
| 18                    | *Cover, Top Power Supply<br>(Replaces 74-33976-02)                         | 70-22808-01        | 00004                           |                    |                   |
|                       | **Cover, Top Power Supply (added)                                          | 74-33976-02        | 00004                           |                    |                   |
|                       | **Screw, Captive No. 6-32 (added)                                          | 12-30239-01        | 00004                           |                    |                   |
|                       | **Washer, Retaining (added)                                                | 12-30421-01        | 00004                           |                    |                   |
| 19                    | *Screw, Sems Phi Pan Hd No. 4-40 x 3/8                                     | 90-09643-00        |                                 |                    |                   |
| 20                    | *Cover, Power Supply                                                       | 74-33417-01        |                                 |                    |                   |
| 21                    | *Screw, Sems Phi Pan Hd No. 6-32 x 5/16                                    | 90-09984-07        |                                 |                    |                   |
| 22                    | *Bracket, Power Supply (deleted)                                           | 74-36556-01        | 00004                           |                    |                   |
| 23                    | *Tubing, Shrink                                                            | 12-30339-01        |                                 |                    |                   |
|                       | LABELS (Not Shown)                                                         |                    |                                 |                    |                   |
|                       | *Label, "Power Supply H7868-A"                                             | 36-26511-01        |                                 | A                  |                   |
|                       | *Label, "Power Supply H7868-B"                                             | 36-26511-02        |                                 | B                  |                   |
|                       | *Label, "H7868-A, ID"                                                      | 36-27463-01        |                                 | A                  |                   |
|                       | *Label, "H7868-B, ID"                                                      | 36-27463-02        |                                 | B                  |                   |
|                       | *Label, "Danger High Voltage"                                              | 36-10267-02        |                                 |                    |                   |
|                       | *Label, "BA2XX Rev" (Replaces 36-28945-01)                                 | 36-29163-05        | 00004                           |                    |                   |

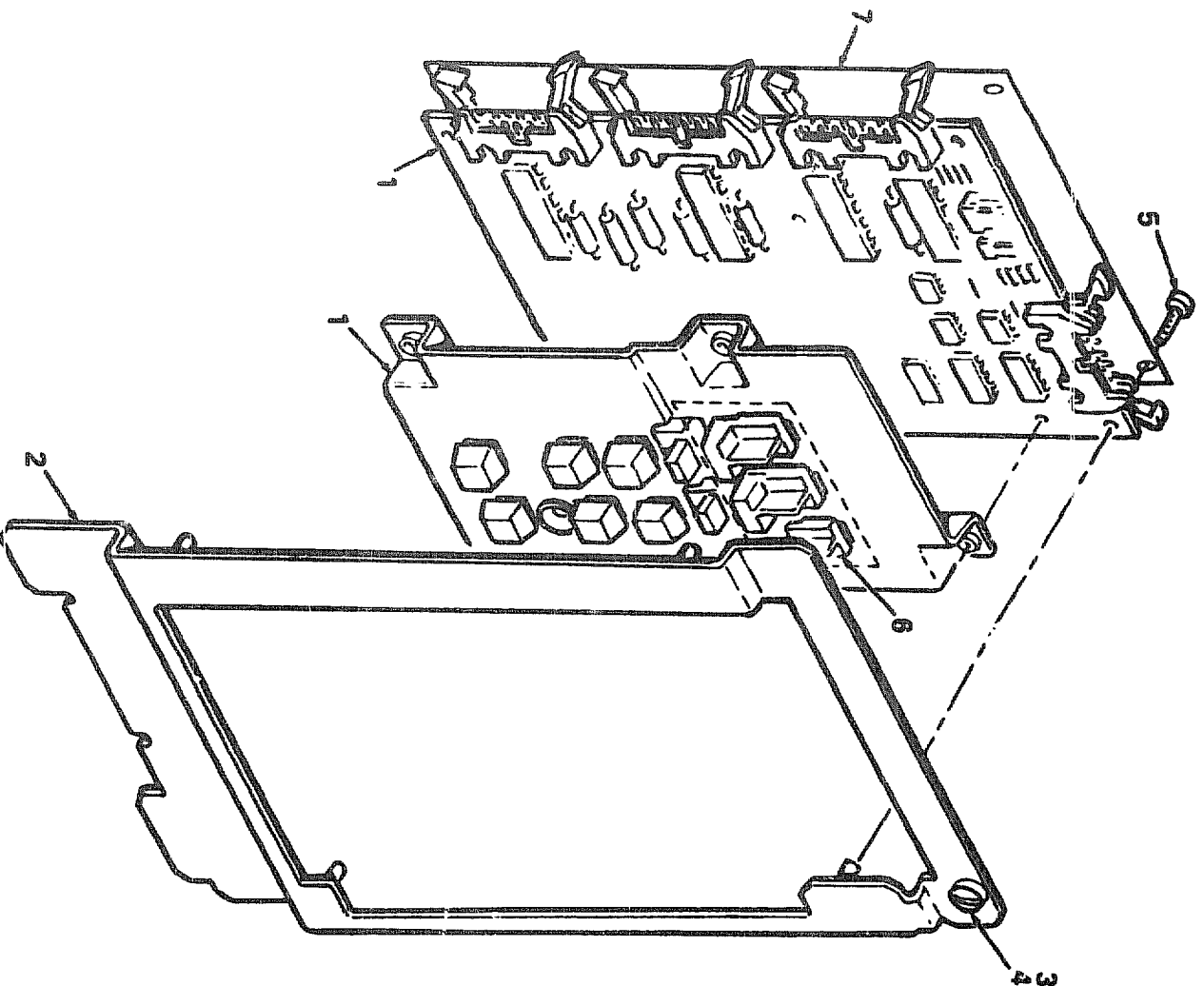


Figure 7. Panel Assembly, Control

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PARTS LIST

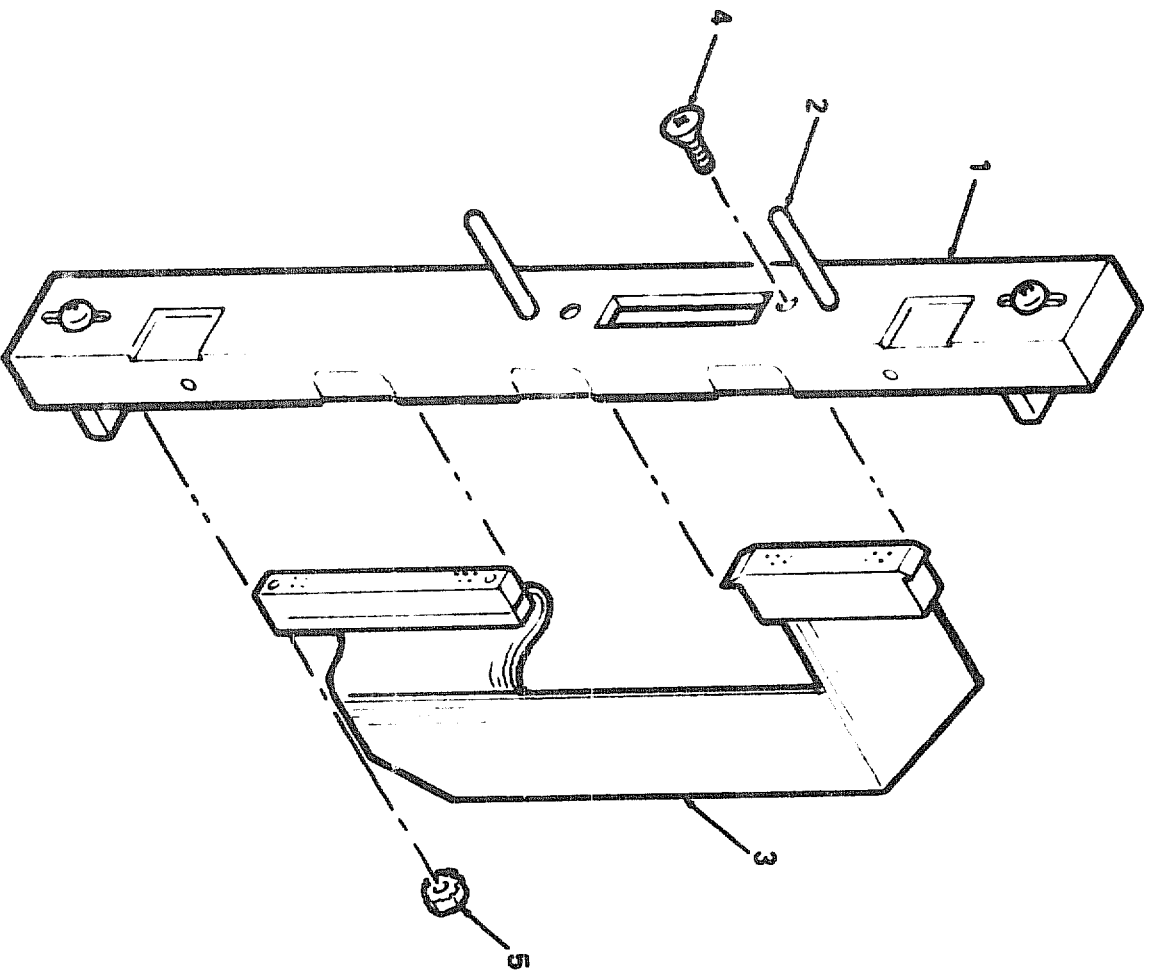
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2

| FIG. &<br>ITEM<br>NO. | DESCRIPTION                                 | DEC<br>PART NO. | ECO<br>CUT-IN<br>70-25453<br>00000 | USED<br>ON<br>CODE | REF<br>FIG<br>NO. |
|-----------------------|---------------------------------------------|-----------------|------------------------------------|--------------------|-------------------|
| 7-                    | PANEL ASSEMBLY. CONTROL                     | 70-25453-01     |                                    |                    | 1                 |
| 1                     | *Panel, DSSI Control                        | 54-17388-01     |                                    |                    |                   |
| 2                     | *Bracket, Control Panel                     | 74-36500-01     |                                    |                    |                   |
| 3                     | *Screw, Shoulder, Socket Hd No. 6-32 x .068 | 12-29665-01     |                                    |                    |                   |
| 4                     | *Nut, Retaining                             | 12-27764-01     |                                    |                    |                   |
| 5                     | *Screw, Self-Tap Truss Hd No. 6 x 5/16      | 90-00063-78     |                                    |                    |                   |
| 6                     | *Lens, Encoder Set                          | 12-28766-19     |                                    |                    |                   |
| 7                     | *Label, "Wiring Diagram"                    | 36-29233-01     |                                    |                    |                   |



**Figure 8. Bulkhead Assembly, DSSI Dual Port**

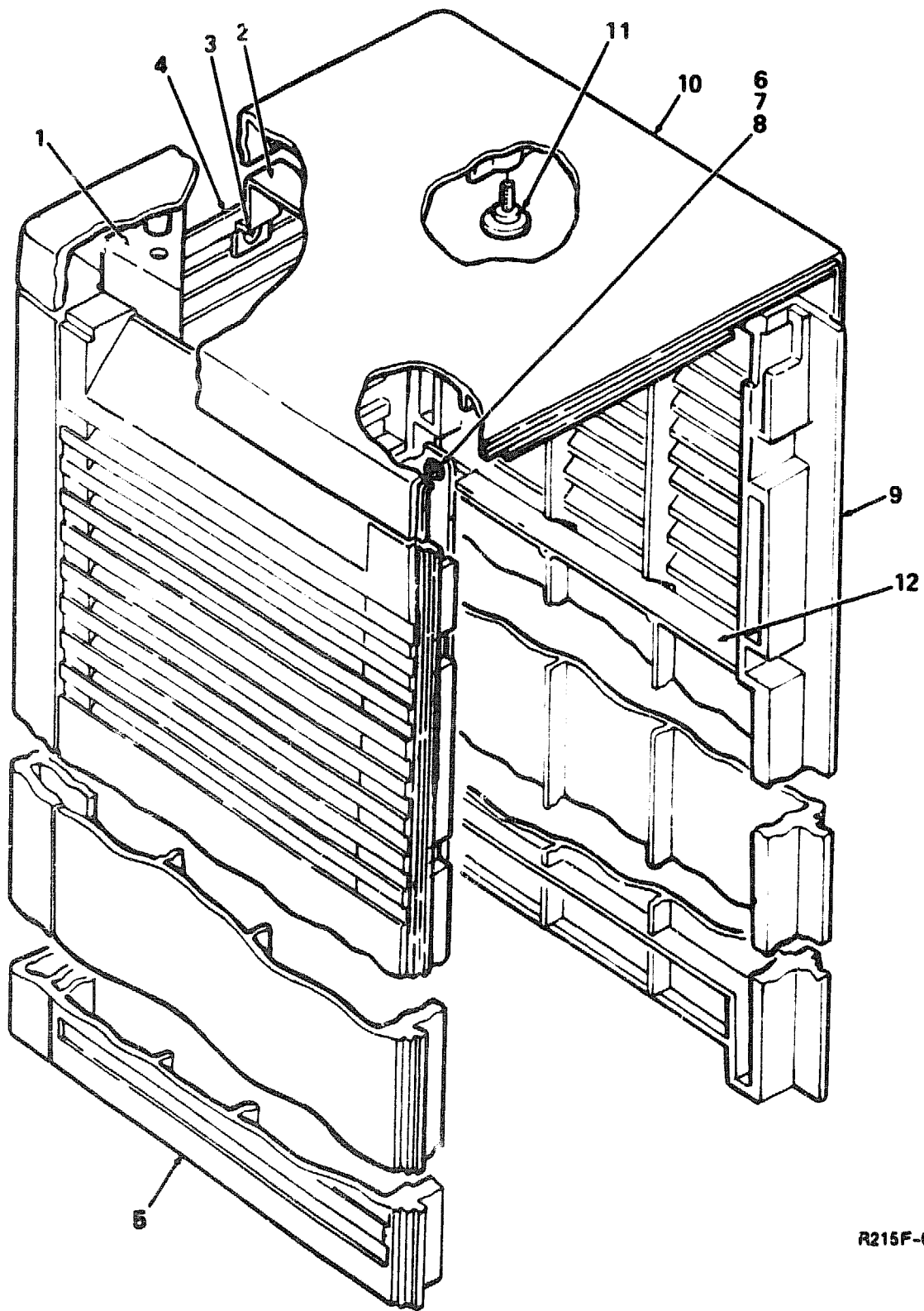
**R215F-00-BD**

**PARTS LIST**

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**IPB-R215F**

| FIG. &<br>ITEM<br>NO. | DESCRIPTION                              | DEC<br>PART NO. | ECO<br>CUT-IN<br>70-26223<br>00000 | USED<br>ON<br>CODE | REF<br>FIG<br>NO. |
|-----------------------|------------------------------------------|-----------------|------------------------------------|--------------------|-------------------|
| 8-                    | BULKHEAD ASSEMBLY, DSSI DUAL PORT        | 70-26223-01     |                                    |                    | 1                 |
| 1                     | *Bulkhead, Front                         | 70-23981-03     |                                    |                    |                   |
| 2                     | *Pin Alignment                           | 12-30363-01     |                                    |                    |                   |
| 3                     | *Cable Assembly, Flat Ribbon             | 17-02208-01     |                                    |                    |                   |
| 4                     | *Screw, Mach Flat Hd (Metric) 02.5 x .08 | 90-10917-01     |                                    |                    |                   |
| 5                     | *Nut, Kep No. 4-40                       | 90-06557-00     |                                    |                    |                   |



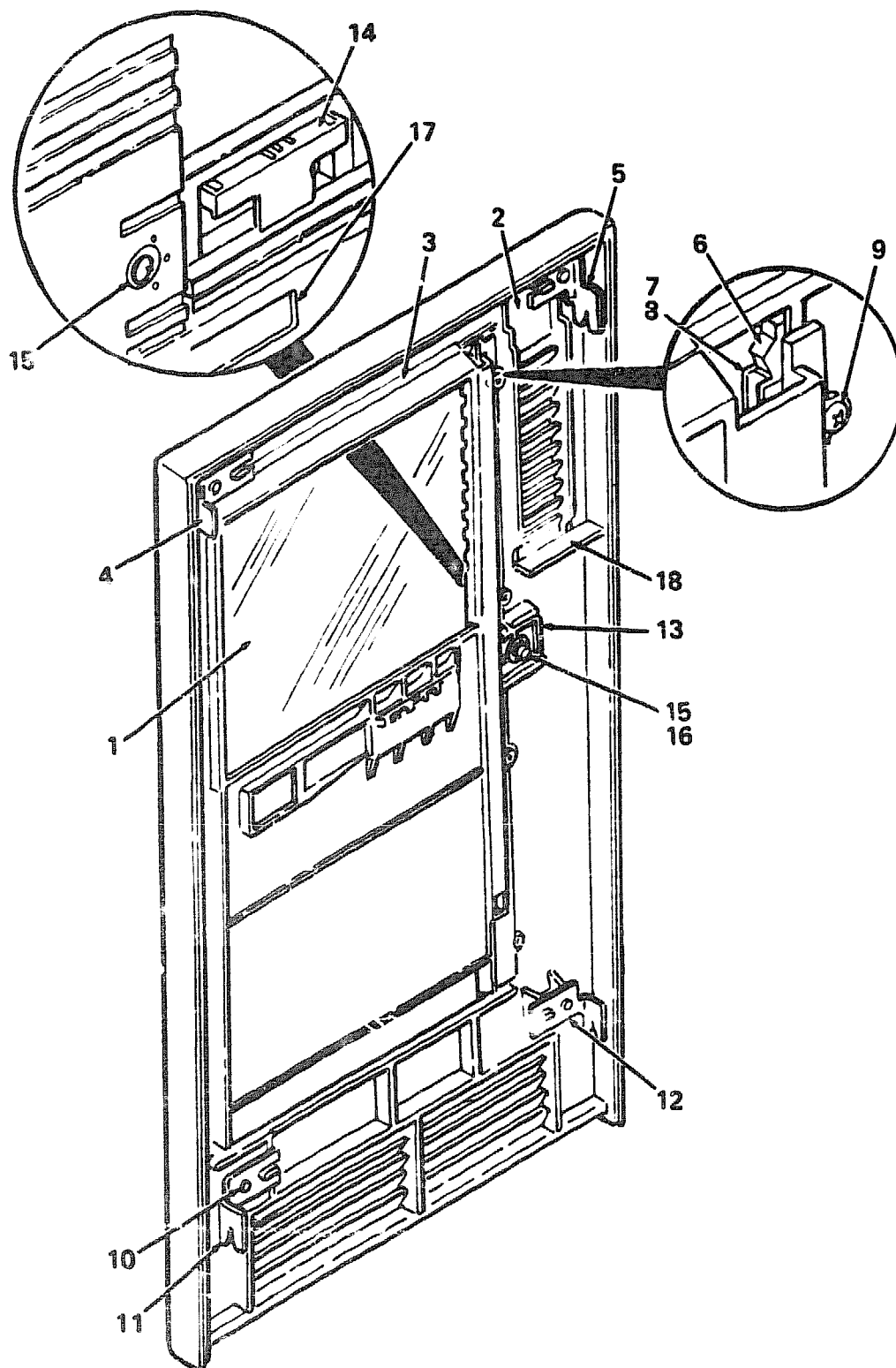
R215F-09-BD

**Figure 9. Enclosure Assembly, Shell**

PARTS LIST



| FIG. &<br>ITEM<br>NO. | DESCRIPTION                                | DEC<br>PART NO. | ECO<br>CUT-IN<br>70-25432<br>00000 | USED<br>ON<br>CODE | REF<br>FIG<br>NO. |
|-----------------------|--------------------------------------------|-----------------|------------------------------------|--------------------|-------------------|
| 9-                    | ENCLOSURE ASSEMBLY. SHELL                  | 70-25432-01     |                                    |                    | 1                 |
| 1                     | *Bracket, Corner                           | 74-34126-01     |                                    |                    |                   |
| 2                     | *Bracket, Side                             | 74-34125-01     |                                    |                    |                   |
| 3                     | *Screw, Self-Tap Phi Pan Hd No. 8-16 x 3/8 | 90-09800-04     |                                    |                    |                   |
| 4                     | *Panel, Rear                               | 74-36455-01     |                                    |                    |                   |
| 5                     | *Panel, Left Side                          | 74-33694-01     |                                    |                    |                   |
| 6                     | *Sleeve                                    | 74-34424-01     |                                    |                    |                   |
| 7                     | *Washer, Flat                              | 90-06661-00     |                                    |                    |                   |
| 8                     | *Screw, Self-Tap Phi Hd No. 8-16 x 1/2     | 90-09800-08     |                                    |                    |                   |
| 9                     | *Panel, Right Side                         | 74-33647-01     |                                    |                    |                   |
| 10                    | *Cover, Top                                | 74-36456-01     |                                    |                    |                   |
| 11                    | *Screw, Thread Rolling Shoulder            | 12-26868-01     |                                    |                    |                   |
| 12                    | *Foam, Air Closure (added)                 | 74-34232-05     | 00001                              |                    |                   |



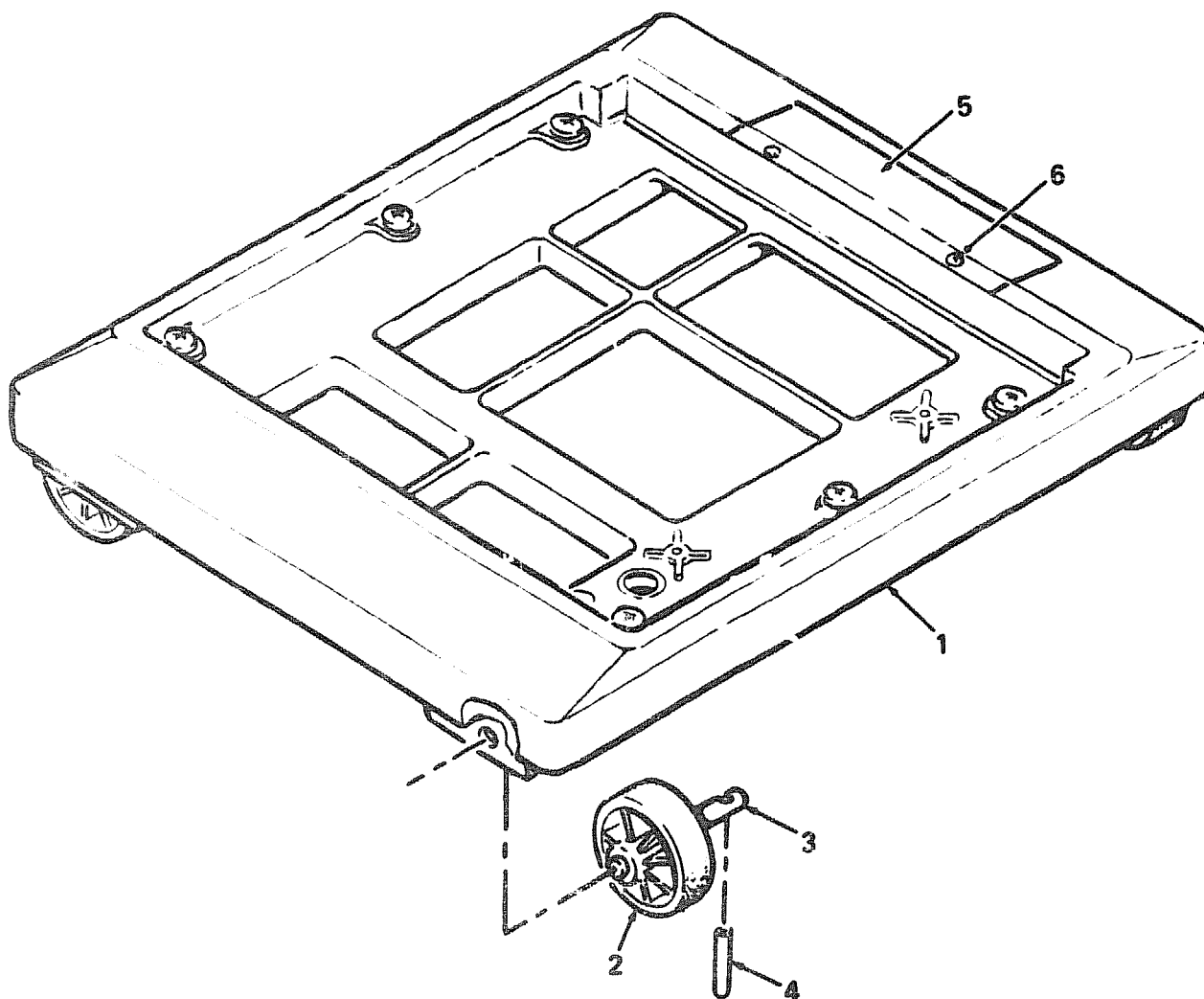
R215F-10-BD

Figure 10. Panel Assenbly, Front

PARTS LIST

| FIG. &<br>ITEM<br>NO. | DESCRIPTION                                | DEC<br>PART NO. | ECO<br>CUT-IN<br>70-25433<br>00000 | USED<br>ON<br>CODE | REF<br>FIG<br>NO. |
|-----------------------|--------------------------------------------|-----------------|------------------------------------|--------------------|-------------------|
| 10-                   | PANEL ASSEMBLY, FRONT                      | 70-25433-02     |                                    |                    | 1                 |
| 1                     | *Door                                      | 74-37759-01     |                                    |                    |                   |
| 2                     | *Panel, Front                              | 74-36459-01     |                                    |                    |                   |
| 3                     | *Bezel, Switch                             | 74-34067-01     |                                    |                    |                   |
| 4                     | *Bracket, Top Left                         | 74-34123-01     |                                    |                    |                   |
| 5                     | *Bracket, Top Right                        | 74-34123-02     |                                    |                    |                   |
| 6                     | *Stop, Door Position                       | 74-34363-01     |                                    |                    |                   |
| 7                     | *Spring, Channel                           | 74-34066-01     |                                    |                    |                   |
| 8                     | *Channel                                   | 74-34062-01     |                                    |                    |                   |
| 9                     | *Screw, Self-Tap Phi Pan Hd No. 6-19 x 3/8 | 90-09800-06     |                                    |                    |                   |
| 10                    | *Screw, Self-Tap Phi Pan Hd No. 8-16 x 3/8 | 90-09800-04     |                                    |                    |                   |
| 11                    | *Bracket, Bottom Left                      | 74-34124-01     |                                    |                    |                   |
| 12                    | *Bracket, Bottom Right                     | 74-34124-02     |                                    |                    |                   |
| 13                    | *Latch, Slide                              | 74-34065-01     |                                    |                    |                   |
| 14                    | *Latch, Pull                               | 74-34064-01     |                                    |                    |                   |
| 15                    | *Tumbler                                   | 74-34063-01     |                                    |                    |                   |
| 16                    | *Ring, Retaining                           | 90-09257-05     |                                    |                    |                   |
| 17                    | *Logo                                      | 74-36643-01     |                                    |                    |                   |
| 18                    | *Foam, Air Closure (added)                 | 74-34232-06     | 00001                              |                    |                   |

| FIG. &<br>ITEM<br>NO. | DESCRIPTION                                | DEC<br>PART NO. <sup>A</sup> | ECO<br>CUT-IN<br>70-24534<br>00000 | USED<br>ON<br>CODE | REF<br>FIG<br>NO. |
|-----------------------|--------------------------------------------|------------------------------|------------------------------------|--------------------|-------------------|
| 11-                   | BASE ASSEMBLY                              | 70-25434-01                  |                                    |                    | 1                 |
| 1                     | *Base                                      | 74-36457-01                  |                                    |                    |                   |
| 2                     | *Wheel, Base                               | 74-34068-01                  |                                    |                    |                   |
| 3                     | *Shaft, Wheel                              | 74-34069-01                  |                                    |                    |                   |
| 4                     | *Pin, Roll                                 | 90-09385-00                  |                                    |                    |                   |
| 5                     | *Support, Label                            | 74-34846-01                  |                                    |                    |                   |
| 6                     | *Screw, Self-Tap Phl Pan Hd No. 6-19 x 3/8 | 90-09600-06                  |                                    |                    | Ω                 |



R215F-11-BD

Figure 11. Base Assembly

PARTS LIST

## **PART NUMBER/DESCRIPTION INDEX**



# **INDEX BY DEC PART NUMBER** **R215F EXPANDER**

| <b>PART NO.</b> | <b>DESCRIPTION</b>                                                                                                            | <b>FIG NO.</b> | <b>ITEM NO.</b> |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------|
| 12-13715-00     | Clip, Flat Cable                                                                                                              | 3              | 10              |
| 12-13756-A8     | Cable Assembly, Ground                                                                                                        | 1              | 32              |
| 12-17119-01     | Keys, Plastic                                                                                                                 | 1              | Not Shown       |
| 12-18912-00     | Clip, 1/2 inch Cable                                                                                                          | 3              | 3               |
| 12-19912-06     | Circuit Breaker                                                                                                               | 6              | 3               |
| 12-21249-01     | Clip, Adhesive Backed Cable                                                                                                   | 3              | 7               |
| 12-21249-01     | Clip, Cable                                                                                                                   | 4              | 10              |
| 12-23609-04     | Fan, Tube Axial, 4 1/2 inch                                                                                                   | 4              | 2               |
| 12-25469-03     | Grommet                                                                                                                       | 3              | 5               |
| 12-26868-01     | Screw, Thread Rolling Shoulder                                                                                                | 9              | 11              |
| 12-26912-01     | Guide, Card                                                                                                                   | 3              | 6               |
| 12-26922-01     | Finger, Grounding                                                                                                             | 3              | 9               |
| 12-26922-01     | Finger, Grounding                                                                                                             | 6              | 14              |
| 12-27034-01     | Screw, Shoulder No. 8-32                                                                                                      | 4              | 9               |
| 12-27235-02     | Spring, Compression                                                                                                           | 6              | 5               |
| 12-27445-01     | Spring, Compression                                                                                                           | 6              | 11              |
| 12-27446-01     | Bushing, Captive Screw                                                                                                        | 6              | 10              |
| 12-27451-01     | Screw, Fillister Slotted Hd No. 6-32 x 5/16                                                                                   | 3              | 15              |
| 12-27764-01     | Nut, Retaining                                                                                                                | 7              | 4               |
| 12-27772-01     | Screw, Phi Shoulder Hd No. 6-32 x 1/2                                                                                         | 6              | 13              |
| 12-28736-01     | Filter, EMI Line                                                                                                              | 4              | 15              |
| 12-28766-19     | Lens, Encoder Set                                                                                                             | 7              | 6               |
| 12-28766-19     | Lens, Encoder Set                                                                                                             | 1              | Not Shown       |
| 12-29665-01     | Screw, Shoulder, Socket Hd No. 6-32 x .068                                                                                    | 7              | 3               |
| 12-30239-01     | Screw, Captive No. 6-32 (added)                                                                                               | 6              | 18              |
| 12-30339-01     | Tubing, Shrink                                                                                                                | 6              | 23              |
| 12-30363-01     | Pin Alignment                                                                                                                 | 8              | 2               |
| 12-30421-01     | Washer, Retaining (Replaces 12-27764-01)                                                                                      | 6              | 9               |
| 12-30421-01     | Washer, Retaining (added)                                                                                                     | 6              | 18              |
| 12-30421-01     | Washer, Retaining                                                                                                             | 4              | 14              |
| 17-00083-11     | Cord, Power (US/Japan/Canada) (120V)<br>(BN20M-2E)                                                                            | 1              | Not Shown       |
| 17-00083-12     | Cord, Power (US/Japan/Canada) (240V)<br>(BN20N-2E)                                                                            | 1              | Not Shown       |
| 17-00198-08     | Cord, Power (Australia/New Zealand) (240V)<br>(BN19J-2E)                                                                      | 1              | Not Shown       |
| 17-00199-01     | Cord, Power (Austria, Belgium, France, W. Germany,<br>Finland, Holland, Norway, Sweden, Portugal, Spain)<br>(240V) (BN03B-2E) | 1              | Not Shown       |
| 17-00209-08     | Cord, Power (UK/Ireland) (240v) (BN19B-2E)                                                                                    | 1              | Not Shown       |
| 17-00210-08     | Cord, Power (Switzerland) (240V) (BN19F-2E)                                                                                   | 1              | Not Shown       |
| 17-00310-08     | Cord, Power (Denmark) (240V) (BN19L-2E)                                                                                       | 1              | Not Shown       |
| 17-00364-09     | Cord, Power (Italy) (240V) (BN19N-2E)                                                                                         | 1              | Not Shown       |
| 17-00453-09     | Cord, Power (India/S. Africa) (240V)<br>(BN19T-2E)                                                                            | 1              | Not Shown       |
| 17-00457-09     | Cord, Power (Israel) (240V) (BN19Y-2E)                                                                                        | 1              | Not Shown       |
| 17-01938-02     | Cable Assembly, Flat, 10 Cond 10 Pin                                                                                          | 1              | 15              |
| 17-01938-01     | Harness Assembly, Wire                                                                                                        | 2              | 4               |
| 17-01939-01     | Harness Assembly, Wire                                                                                                        | 4              | 8               |
| 17-01964-01     | Cable Assembly, Flat, 10 Cond 2ft Brown                                                                                       | 1              | 16              |

\*\*\*NOTE\*\*\*

When the description includes "added" or "deleted", ALWAYS refer to the figure parts list for the latest part description.

# **INDEX BY DEC PART NUMBER** **R215F EXPANDER**

| <b>PART NO.</b> | <b>DESCRIPTION</b>                                | <b>FIG NO.</b> | <b>ITEM NO.</b> |
|-----------------|---------------------------------------------------|----------------|-----------------|
| 17-01965-01     | Harness Assembly, Wire                            | 1              | 14              |
| 17-01981-01     | Harness Assembly, Wire                            | 4              | 17              |
| 17-02152-03     | Cable Assembly, DSSI (BC21M-09)                   | 1              | 25              |
| 17-02208-01     | Cable Assembly, Flat Ribbon                       | 8              | 3               |
| 17-02210-01     | Cable Assembly, 25 TWP 50 Pin D-SUB               | 1              | 17              |
| 17-02637-01     | Cable Assembly, Power Sequence                    | 1              | 31              |
| 36-10267-02     | Label, "Danger High Voltage"                      | 6              | Not Shown       |
| 36-12680-00     | Label, "Ground Symbol"                            | 4              | Not Shown       |
| 36-12680-02     | Label, "Ground Symbol w/Circle"                   | 4              | Not Shown       |
| 36-12680-04     | Label, Ground                                     | 1              | 35              |
| 36-12680-04     | Label, "Ground Symbol"                            | 3              | Not Shown       |
| 36-17905-16     | Label, "Warning Equipment Rating 120V"            | 1              | Not Shown       |
| 36-17905-17     | Label, "Warning Equipment Rating 240V"            | 1              | Not Shown       |
| 36-26511-01     | Label, "Power Supply H7868-A"                     | 6              | Not Shown       |
| 36-26511-02     | Label, "Power Supply H7868-B"                     | 6              | Not Shown       |
| 36-27329-07     | Label, "Serial/Model 100-120V"                    | 1              | Not Shown       |
| 36-27329-09     | Label, "Serial/Model 220-240V"                    | 1              | Not Shown       |
| 36-27463-01     | Label, "H7868-A, ID"                              | 6              | Not Shown       |
| 36-27463-02     | Label, "H7868-B, ID"                              | 6              | Not Shown       |
| 36-29163-05     | Label, "BA2XX Rev" (Replaces 36-28945-01)         | 6              | Not Shown       |
| 36-29233-01     | Label, "Wiring Diagram"                           | 7              | 7               |
| 36-29304-03     | Label, "Logo R215F"                               | 1              | Not Shown       |
| 36-29305-01     | Label, "Base 100-120V"                            | 1              | Not Shown       |
| 36-29305-05     | Label, "Base 220-240V"                            | 1              | Not Shown       |
| 36-29343-01     | Label, "Shipping Bracket"                         | 1              | Not Shown       |
| 36-30422-08     | Label, "Post Card"                                | 1              | Not Shown       |
| 36-30852-01     | Label, "Caution" (Replaces 36-02210-01)           | 1              | Not Shown       |
| 36-30973-01     | Label, "Control Panel"                            | 1              | Not Shown       |
| 47-00042-00     | Screwdriver, Flat Blade 3/16 x 4                  | 1              | Not Shown       |
| 54-16879-01     | Module, Power Supply                              | 6              | 1               |
| 54-17388-01     | Panel, DSSI Control                               | 7              | 1               |
| 54-19278-01     | Module, Back Panel                                | 5              | 3               |
| 54-19286-01     | Module, Capacitor 12V                             | 1              | 12              |
| 70-22808-01     | Cover, Top Power Supply<br>(Replaces 74-33976-02) | 6              | 18              |
| 70-23366-01     | Harness Assembly, H7868                           | 6              | 2               |
| 70-23770-01     | Jumper Assembly, 2-Pin Mate-N-Lok 120V            | 6              | 7               |
| 70-23981-03     | Bulkhead, Front                                   | 8              | 1               |
| 70-25432-01     | ENCLOSURE ASSEMBLY, SHELL                         | 9              | N/A             |
| 70-25432-01     | ENCLOSURE ASSEMBLY, SHELL                         | 1              | 4               |
| 70-25433-02     | PANEL ASSEMBLY, FRONT                             | 10             | N/A             |
| 70-25433-02     | PANEL ASSEMBLY, FRONT                             | 1              | 5               |
| 70-25434-01     | BASE ASSEMBLY                                     | 1              | 9               |
| 70-25434-01     | BASE ASSEMBLY                                     | 11             | N/A             |
| 70-25443-01     | Card Cage, Bottom (Weldment)                      | 3              | 1               |
| 70-25444-01     | Bracket Assembly, Shipping                        | 3              | 19              |

## **\*\* NOTE \*\***

When the description includes "added" or "deleted, ALWAYS refer to the figure parts list for the latest part description.

# **INDEX BY DEC PART NUMBER** **R215F EXPANDER**

| <b>PART NO.</b> | <b>DESCRIPTION</b>                                     | <b>FIG NO.</b> | <b>ITEM NO.</b> |
|-----------------|--------------------------------------------------------|----------------|-----------------|
| 70-25445-01     | Top Assembly (Weldment) (Shipping Bracket)             | 3              | 13              |
| 70-25446-01     | FRAME ASSEMBLY                                         | 2              | 1               |
| 70-25446-01     | FRAME ASSEMBLY                                         | 3              | N/A             |
| 70-25449-01     | Weldment, Fan Tray                                     | 4              | 1               |
| 70-25450-01     | Grill, Safety                                          | 2              | 8               |
| 70-25452-01     | Shock Mount Assembly, RF30 (Bottom)                    | 1              | 28              |
| 70-25452-02     | Shock Mount Assembly, RF30 (Top)                       | 1              | 26              |
| 70-25453-01     | PANEL ASSEMBLY, CONTROL                                | 1              | 3               |
| 70-25453-01     | PANEL ASSEMBLY, CONTROL                                | 7              | N/A             |
| 70-25454-01     | FAN ASSEMBLY                                           | 4              | N/A             |
| 70-25454-01     | FAN ASSEMBLY                                           | 2              | 3               |
| 70-25455-01     | Switch Assembly, AC                                    | 2              | 6               |
| 70-25771-01     | Card Cage Assembly, Top                                | 3              | 11              |
| 70-25795-02     | Panel Assembly, Mass Storage<br>(Replaces 70-26252-01) | 1              | 2               |
| 70-25802-01     | Bracket Assembly, Bottom Shock                         | 2              | 11              |
| 70-25803-01     | Bracket Assembly, Top Shock                            | 2              | 10              |
| 70-25806-01     | Cover Assembly, Card Cage                              | 1              | 11              |
| 70-25807-03     | ACCESSORY KIT                                          | 1              | Not Shown       |
| 70-25807-04     | ACCESSORY KIT                                          | 1              | Not Shown       |
| 70-26207-01     | CHASSIS ASSEMBLY                                       | 1              | 1               |
| 70-26207-01     | CHASSIS ASSEMBLY                                       | 2              | N/A             |
| 70-26207-02     | CHASSIS ASSEMBLY                                       | 2              | N/A             |
| 70-26207-02     | CHASSIS ASSEMBLY                                       | 1              | 1               |
| 70-26208-01     | Connector Assembly, Plate                              | 1              | 6               |
| 70-26222-01     | PANEL ASSEMBLY, BACK                                   | 2              | 7               |
| 70-26222-01     | PANEL ASSEMBLY, BACK                                   | 5              | N/A             |
| 70-26223-01     | BULKHEAD ASSEMBLY, DSSI DUAL PORT                      | 8              | N/A             |
| 70-26223-01     | BULKHEAD ASSEMBLY, DSSI DUAL PORT                      | 1              | 10              |
| 74-33416-02     | Enclosure, Power Supply                                | 6              | 17              |
| 74-33417-01     | Cover, Power Supply                                    | 6              | 20              |
| 74-33418-01     | Pad, Insulator                                         | 6              | 8               |
| 74-33564-01     | Guide, 6 Slot Card                                     | 3              | 8               |
| 74-33647-01     | Panel, Right Side                                      | 9              | 9               |
| 74-33694-01     | Panel, Left Side                                       | 9              | 5               |
| 74-33971-01     | Filler, Gap                                            | 3              | 2               |
| 74-33976-02     | Cover, Top Power Supply (added)                        | 6              | 18              |
| 74-34062-01     | Channel                                                | 10             | 8               |
| 74-34063-01     | Tumbler                                                | 10             | 15              |
| 74-34064-01     | Latch, Pull                                            | 10             | 14              |
| 74-34065-01     | Latch, Slide                                           | 10             | 13              |
| 74-34066-01     | Spring, Channel                                        | 10             | 7               |
| 74-34067-01     | Bezel, Switch                                          | 10             | 3               |
| 74-34068-01     | Wheel, Base                                            | 11             | 2               |
| 74-34069-01     | Shaft, Wheel                                           | 11             | 3               |
| 74-34123-01     | Bracket, Top Left                                      | 10             | 4               |
| 74-34123-02     | Bracket, Top Right                                     | 10             | 5               |
| 74-34124-01     | Bracket, Bottom Left                                   | 10             | 11              |
| 74-34124-02     | Bracket, Bottom Right                                  | 10             | 12              |

## **\*\*\*NOTE\*\*\***

When the description includes "added" or "deleted, ALWAYS refer to the figure parts list for the latest part description.

# **INDEX BY DEC PART NUMBER** **R215F EXPANDER**

| <b>PART NO.</b> | <b>DESCRIPTION</b>                                                      | <b>FIG NO.</b> | <b>ITEM NO.</b> |
|-----------------|-------------------------------------------------------------------------|----------------|-----------------|
| 74-34125-01     | Bracket, Side                                                           | 9              | 2               |
| 74-34126-01     | Bracket, Corner                                                         | 9              | 1               |
| 74-34232-05     | Foam, Air Closure (added)                                               | 9              | 12              |
| 74-34232-06     | Foam, Air Closure (added)                                               | 10             | 18              |
| 74-34363-01     | Stop, Door Position                                                     | 10             | 6               |
| 74-34424-01     | Sleeve                                                                  | 9              | 6               |
| 74-34431-01     | Support, Spring                                                         | 6              | 4               |
| 74-34846-01     | Support, Label                                                          | 11             | 5               |
| 74-36456-01     | Cover, Top                                                              | 9              | 10              |
| 74-36457-01     | Base                                                                    | 11             | 1               |
| 74-36458-01     | Panel, Rear                                                             | 9              | 4               |
| 74-36459-01     | Panel, Front                                                            | 10             | 2               |
| 74-36498-01     | Bracket, RF30 ISE                                                       | 1              | 29              |
| 74-36500-01     | Bracket, Control Panel                                                  | 7              | 2               |
| 74-36508-01     | Support Panel, Back Panel                                               | 5              | 1               |
| 74-36509-01     | Insulator, Back Panel                                                   | 5              | 2               |
| 74-36510-01     | Panel, Right                                                            | 3              | 16              |
| 74-36511-01     | Panel, Left                                                             | 3              | 17              |
| 74-36515-01     | Cover, Top                                                              | 3              | 18              |
| 74-36517-01     | Support, Connector                                                      | 3              | 14              |
| 74-36558-01     | Bracket, Power Supply (deleted)                                         | 6              | 22              |
| 74-36583-01     | Baffle                                                                  | 3              | 4               |
| 74-36643-01     | Logo                                                                    | 10             | 17              |
| 74-36712-01     | Bracket, Base Mounting                                                  | 1              | 19              |
| 74-36712-02     | Bracket, Base Mounting                                                  | 1              | 20              |
| 74-36884-06     | Medallion, R215F                                                        | 1              | 13              |
| 74-37759-01     | Door                                                                    | 10             | 1               |
| 90-00030-40     | Rivet, Blind                                                            | 3              | 12              |
| 90-00049-24     | Screw, Sems Phi Pan Hd No. 6-32 x 3/8                                   | 4              | 13              |
| 90-00049-30     | Screw, Sems Phi Truss Hd No. 6-32 x 1/4                                 | 1              | 7               |
| 90-00049-57     | Screw, Sems Phi Pan Hd No. 6-32 x 5/16                                  | 4              | 5               |
| 90-00063-78     | Screw, Self-Tap Truss Hd No. 6 x 5/16                                   | 5              | 4               |
| 90-00063-78     | Screw, Self-Tap Truss Hd No. 6 x 5/16                                   | 7              | 5               |
| 90-06024-03     | Screw, Phi Truss Hd No. 6-32 x 1/2                                      | 1              | 33              |
| 90-06370-08     | Screw, Captive Socket Hex Hd No. 1/4-20 x 1/2<br>(Replaces 90-06320-08) | 1              | 21              |
| 90-06557-00     | Nut, Kep No. 4-40                                                       | 8              | 5               |
| 90-06585-00     | Nut, Kep No. 10-32                                                      | 4              | 12              |
| 90-06637-00     | Washer, Lock Internal Steel                                             | 2              | 22              |
| 90-06659-00     | Washer, Flat                                                            | 4              | 4               |
| 90-06661-00     | Washer, Flat                                                            | 1              | 24              |
| 90-06661-00     | Washer, Flat                                                            | 9              | 7               |
| 90-06664-00     | Washer, Flat                                                            | 4              | 11              |
| 90-07013-00     | Grommet, Round Rubber                                                   | 4              | 3               |
| 90-07015-00     | Grommet, Round Rubber (deleted)                                         | 6              | 15              |
| 90-07031-00     | Tie, Cable (deleted)                                                    | 6              | 16              |
| 90-07064-00     | Plug, Button                                                            | 1              | 18              |
| 90-07649-00     | Washer, External Tooth Lock No. 6                                       | 6              | 12              |
| 90-07649-00     | Washer, Self-Lock                                                       | 1              | 34              |

## **\*\*\*NOTE\*\*\***

When the description includes "added" or "deleted, ALWAYS refer to the figure parts list for the latest part description.

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| <b>PART NO.</b> | <b>DESCRIPTION</b>                        | <b>FIG NO.</b> | <b>ITEM NO.</b> |
|-----------------|-------------------------------------------|----------------|-----------------|
| 90-07880-00     | Tie, Cable                                | 4              | 6               |
| 90-07880-00     | Tie, Cable                                | 2              | 5               |
| 90-08055-00     | Nut, Kap No. 6-32                         | 6              | 6               |
| 90-09165-00     | Clip, Fan Mounting                        | 4              | 7               |
| 90-09257-05     | Ring, Retaining                           | 10             | 16              |
| 90-09385-00     | Pin, Roll                                 | 11             | 4               |
| 90-09643-00     | Screw, Sems Phi Pan Hd No. 4-40 x 3/8     | 6              | 19              |
| 90-09800-04     | Screw, Self-Tap Phi Pan Hd No. 8-16 x 3/8 | 9              | 3               |
| 90-09800-04     | Screw, Self-Tap Phi Pan Hd No. 8-16 x 3/8 | 10             | 10              |
| 90-09800-06     | Screw, Self-Tap Phi Pan Hd No. 6-19 x 3/8 | 11             | 6               |
| 90-09800-06     | Screw, Self-Tap Phi Pan Hd No. 6-19 x 3/8 | 10             | 9               |
| 90-09800-08     | Screw, Self-Tap Phi Pan Hd No. 8-16 x 1/2 | 1              | 23              |
| 90-09800-08     | Screw, Self-Tap Phi Hd No. 8-16 x 1/2     | 9              | 8               |
| 90-09984-07     | Screw, Sems Phi Pan Hd No. 6-32 x 5/16    | 6              | 21              |
| 90-10075-03     | Screw, Hex Hd Roll Thd No. 6-32 x 5/16    | 2              | 12              |
| 90-10174-00     | Screw, Sems Phi Pan Hd No. 6-32 x 1/4     | 2              | 9               |
| 90-10174-01     | Screw, Sems Phi Pan Hd No. 8-32 x 5/16    | 4              | 16              |
| 90-10917-01     | Screw, Mach Flat Hd (Metric) 02.5M x .08  | 1              | 8               |
| 90-10917-01     | Screw, Mach Flat Hd (Metric) 02.5 x .08   | 8              | 4               |
| H4010-AA        | KIT, SEQUENCING AND GROUNDING             | 1              | 30              |
| H7868-A         | POWER SUPPLY ASSEMBLY, H7868 (120V)       | 6              | N/A             |
| H7868-A         | POWER SUPPLY ASSEMBLY, H7868 (120V)       | 2              | 2               |
| H7868-B         | POWER SUPPLY ASSEMBLY, H7868 (240V)       | 2              | 2               |
| H7868-B         | POWER SUPPLY ASSEMBLY, H7868 (240V)       | 6              | N/A             |
| N/A             | R215F EXPANDER                            | 1              | N/A             |
| R215F-A2        | R215F-A2 (120V) (w/o Skins)               | 1              | N/A             |
| R215F-A3        | R215F-A3 (240V) (w/o Skins)               | 1              | N/A             |
| R215F-B2        | R215F-B2 (120V) (w/Skins)                 | 1              | N/A             |
| R215F-B3        | R215F-B3 (240V) (w/Skins)                 | 1              | N/A             |
| RF30-EA         | RF30 ISE                                  | 1              | 27              |

## \*\*\*NOTE\*\*\*

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| <b>DESCRIPTION</b>                                       | <b>DEC<br/>PART NO.</b> | <b>FIG.<br/>NO.</b> | <b>ITEM<br/>NO.</b> |
|----------------------------------------------------------|-------------------------|---------------------|---------------------|
| ACCESSORY KIT                                            | 70-25807-03             | 1                   | Not Shown           |
| ACCESSORY KIT                                            | 70-25807-04             | 1                   | Not Shown           |
| Baffle                                                   | 74-36583-01             | 3                   | 4                   |
| Base                                                     | 74-36457-01             | 11                  | 1                   |
| BASE ASSEMBLY                                            | 70-25434-01             | 1                   | 9                   |
| BASE ASSEMBLY                                            | 70-25434-01             | 11                  | N/A                 |
| Bezel, Switch                                            | 74-34087-01             | 10                  | 3                   |
| Bracket Assembly, Bottom Shock                           | 70-25802-01             | 2                   | 11                  |
| Bracket Assembly, Shipping                               | 70-25444-01             | 3                   | 19                  |
| Bracket Assembly, Top Shock                              | 70-25803-01             | 2                   | 10                  |
| Bracket, Base Mounting                                   | 74-36712-01             | 1                   | 19                  |
| Bracket, Base Mounting                                   | 74-36712-02             | 1                   | 20                  |
| Bracket, Bottom Left                                     | 74-34124-01             | 10                  | 11                  |
| Bracket, Bottom Right                                    | 74-34124-02             | 10                  | 12                  |
| Bracket, Control Panel                                   | 74-36500-01             | 7                   | 2                   |
| Bracket, Corner                                          | 74-34123-01             | 9                   | 1                   |
| Bracket, Power Supply (deleted)                          | 74-36556-01             | 6                   | 22                  |
| Bracket, RF30 ISE                                        | 74-36498-01             | 1                   | 29                  |
| Bracket, Side                                            | 74-34125-01             | 9                   | 2                   |
| Bracket, Top Left                                        | 74-34123-01             | 10                  | 4                   |
| Bracket, Top Right                                       | 74-34123-02             | 10                  | 5                   |
| BULKHEAD ASSEMBLY, DSSI DUAL PORT                        | 70-26223-01             | 8                   | N/A                 |
| BULKHEAD ASSEMBLY, DSSI DUAL PORT                        | 70-26223-01             | 1                   | 10                  |
| Bulkhead, Front                                          | 70-23981-03             | 8                   | 1                   |
| Bushing, Captive Screw                                   | 12-27446-01             | 6                   | 10                  |
| Cable Assembly, 25 TWP 50 Pin D-SUB                      | 17-02210-01             | 1                   | 17                  |
| Cable Assembly, DSSI (BC21M-09)                          | 17-02152-03             | 1                   | 25                  |
| Cable Assembly, Flat Ribbon                              | 17-02208-01             | 8                   | 3                   |
| Cable Assembly, Flat, 10 Cond 10 Pin                     | 17-01936-02             | 1                   | 15                  |
| Cable Assembly, Flat, 10 Cond 2ft Brown                  | 17-01964-01             | 1                   | 16                  |
| Cable Assembly, Ground                                   | 12-13758-A8             | 1                   | 32                  |
| Cable Assembly, Power Sequence                           | 17-02637-01             | 1                   | 31                  |
| Card Cage Assembly, Top                                  | 70-25771-01             | 3                   | 11                  |
| Card Cage, Bottom (Weldment)                             | 70-25443-01             | 3                   | 1                   |
| Channel                                                  | 74-34082-01             | 10                  | 8                   |
| CHASSIS ASSEMBLY                                         | 70-26207-01             | 2                   | N/A                 |
| CHASSIS ASSEMBLY                                         | 70-26207-02             | 1                   | 1                   |
| CHASSIS ASSEMBLY                                         | 70-26207-01             | 1                   | 1                   |
| CHASSIS ASSEMBLY                                         | 70-26207-02             | 2                   | N/A                 |
| Circuit Breaker                                          | 12-19912-06             | 6                   | 3                   |
| Clip, 1/2 inch Cable                                     | 12-18912-00             | 3                   | 3                   |
| Clip, Adhesive Backed Cable                              | 12-21249-01             | 3                   | 7                   |
| Clip, Cable                                              | 12-21249-01             | 4                   | 10                  |
| Clip, Fan Mounting                                       | 90-09165-00             | 4                   | 7                   |
| Clip, Flat Cable                                         | 12-13715-00             | 3                   | 10                  |
| Connector Assembly, Plate                                | 70-26208-01             | 1                   | 6                   |
| Cord, Power (Australia/New Zealand) (240V)<br>(BN19J-2E) | 17-00198-08             | 1                   | Not Shown           |

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**INDEX BY DEC PART DESCRIPTION  
R215F EXPANDER**

| DESCRIPTION                                                                                                                   | DEC<br>PART NO. | FIG.<br>NO. | ITEM<br>NO. |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------|-------------|
| Cord, Power (Austria, Belgium, France,<br>W. Germany, Finland, Holland, Norway, Sweden,<br>Portugal, Spain) (240V) (BN03B-2E) | 17-00199-01     | 1           | Not Shown   |
| Cord, Power (Denmark) (240V) (BN19L-2E)                                                                                       | 17-00310-06     | 1           | Not Shown   |
| Cord, Power (India/S. Africa) (240V) (BN19T-2E)                                                                               | 17-00456-09     | 1           | Not Shown   |
| Cord, Power (Israel) (240V) (BN19Y-2E)                                                                                        | 17-00457-09     | 1           | Not Shown   |
| Cord, Power (Italy) (240V) (BN19N-2E)                                                                                         | 17-00364-09     | 1           | Not Shown   |
| Cord, Power (Switzerland) (240V) (BN19F-2E)                                                                                   | 17-00210-06     | 1           | Not Shown   |
| Cord, Power (UK/Ireland) (240V) (BN19B-2E)                                                                                    | 17-00209-09     | 1           | Not Shown   |
| Cord, Power (US/Japan/Canada) (120V) (BN20M-2E)                                                                               | 17-00083-11     | 1           | Not Shown   |
| Cord, Power (US/Japan/Canada) (240V) (BN20N-2E)                                                                               | 17-00083-12     | 1           | Not Shown   |
| Cover Assembly, Card Cage                                                                                                     | 70-25806-01     | 1           | 11          |
| Cover, Power Supply                                                                                                           | 74-33417-01     | 6           | 20          |
| Cover, Top                                                                                                                    | 74-36456-01     | 9           | 10          |
| Cover, Top                                                                                                                    | 74-36515-01     | 3           | 18          |
| Cover, Top Power Supply (added)                                                                                               | 74-33976-02     | 6           | 18          |
| Cover, Top Power Supply (Replaces 74-33976-02)                                                                                | 70-22808-01     | 6           | 18          |
| Door                                                                                                                          | 74-37759-01     | 10          | 1           |
| ENCLOSURE ASSEMBLY, SHELL                                                                                                     | 70-25432-01     | 1           | 4           |
| ENCLOSURE ASSEMBLY, SHELL                                                                                                     | 70-25432-01     | 9           | N/A         |
| Enclosure, Power Supply                                                                                                       | 74-33416-02     | 6           | 17          |
| FAN ASSEMBLY                                                                                                                  | 70-25454-01     | 2           | 3           |
| FAN ASSEMBLY                                                                                                                  | 70-25454-01     | 4           | N/A         |
| Fan, Tube Axial, 4 1/2 inch                                                                                                   | 12-23609-04     | 4           | 2           |
| Filler, Gap                                                                                                                   | 74-33971-01     | 3           | 2           |
| Filter, EMI Line                                                                                                              | 12-26736-01     | 4           | 15          |
| Finger, Grounding                                                                                                             | 12-26922-01     | 6           | 14          |
| Finger, Grounding                                                                                                             | 12-26922-01     | 3           | 9           |
| Foam, Air Closure (added)                                                                                                     | 74-34232-05     | 9           | 12          |
| Foam, Air Closure (added)                                                                                                     | 74-34232-06     | 10          | 18          |
| FRAME ASSEMBLY                                                                                                                | 70-25446-01     | 2           | 1           |
| FRAME ASSEMBLY                                                                                                                | 70-25446-01     | 3           | N/A         |
| Grill, Safety                                                                                                                 | 70-25450-01     | 2           | 8           |
| Grommet                                                                                                                       | 12-25469-03     | 3           | 5           |
| Grommet, Round Rubber                                                                                                         | 90-07013-00     | 4           | 3           |
| Grommet, Round Rubber (deleted)                                                                                               | 90-07015-00     | 6           | 15          |
| Guide, 6 Slot Card                                                                                                            | 74-33564-01     | 3           | 8           |
| Guide, Card                                                                                                                   | 12-26912-01     | 3           | 6           |
| Harness Assembly, H7868                                                                                                       | 70-23366-01     | 6           | 2           |
| Harness Assembly, Wire                                                                                                        | 17-01981-01     | 4           | 17          |
| Harness Assembly, Wire                                                                                                        | 17-01936-01     | 2           | 4           |
| Harness Assembly, Wire                                                                                                        | 17-01985-01     | 1           | 14          |
| Harness Assembly, Wire                                                                                                        | 17-01939-01     | 4           | 8           |
| Insulator, Back Panel                                                                                                         | 74-36509-01     | 5           | 2           |
| Jumper Assembly, 2-Pin Mate-N-Lok 120V                                                                                        | 70-23770-01     | 6           | 7           |

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R215F EXPANDER**

| DESCRIPTION                                            | DEC<br>PART NO. | FIG.<br>NO. | ITEM<br>NO. |
|--------------------------------------------------------|-----------------|-------------|-------------|
| Keys, Plastic                                          | 12-17119-01     | 1           | Not Shown   |
| KIT, SEQUENCING AND GROUNDING                          | H4010-AA        | 1           | 30          |
| Label, "BA2XX Rev" (Replaces 36-28945-01)              | 36-29163-05     | 6           | Not Shown   |
| Label, "Base 100-120V"                                 | 36-29305-01     | 1           | Not Shown   |
| Label, "Base 220-240V"                                 | 36-29305-05     | 1           | Not Shown   |
| Label, "Caution" (Replaces 36-02210-01)                | 36-30852-01     | 1           | Not Shown   |
| Label, "Control Panel"                                 | 36-30973-01     | 1           | Not Shown   |
| Label, "Danger High Voltage"                           | 36-10267-02     | 6           | Not Shown   |
| Label, "Ground Symbol w/Circle"                        | 36-12680-01     | 4           | Not Shown   |
| Label, "Ground Symbol"                                 | 36-12680-04     | 3           | Not Shown   |
| Label, "Ground Symbol"                                 | 36-12680-00     | 4           | Not Shown   |
| Label, "H7868-A, ID"                                   | 36-27463-01     | 6           | Not Shown   |
| Label, "H7868-B, ID"                                   | 36-27463-02     | 6           | Not Shown   |
| Label, "Logo R215F"                                    | 36-29304-03     | 1           | Not Shown   |
| Label, "Post Card"                                     | 36-30422-08     | 1           | Not Shown   |
| Label, "Power Supply H7868-A"                          | 36-26511-01     | 6           | Not Shown   |
| Label, "Power Supply H7868-B"                          | 36-26511-02     | 6           | Not Shown   |
| Label, "Serial/Model 100-120V"                         | 36-27329-07     | 1           | Not Shown   |
| Label, "Serial/Model 220-240V"                         | 36-27329-09     | 1           | Not Shown   |
| Label, "Shipping Bracket"                              | 36-29343-01     | 1           | Not Shown   |
| Label, "Warning Equipment Rating 120V"                 | 36-17905-16     | 1           | Not Shown   |
| Label, "Warning Equipment Rating 240V"                 | 36-17905-17     | 1           | Not Shown   |
| Label, "Wiring Diagram"                                | 36-29233-01     | 7           | 7           |
| Label, Ground                                          | 36-12680-04     | 1           | 35          |
| Latch, Pull                                            | 74-34084-01     | 10          | 14          |
| Latch, Slide                                           | 74-34085-01     | 10          | 13          |
| Lens, Encoder Set                                      | 12-28766-19     | 7           | 6           |
| Lens, Encoder Set                                      | 12-28766-19     | 1           | Not Shown   |
| Logo                                                   | 74-36643-01     | 10          | 17          |
| Medallion, R215F                                       | 74-36884-06     | 1           | 13          |
| Module, Back Panel                                     | 54-19278-01     | 5           | 3           |
| Module, Capacitor 12V                                  | 54-19286-01     | 1           | 12          |
| Module, Power Supply                                   | 54-16879-01     | 6           | 1           |
| Nut, Kep No. 10-32                                     | 90-06565-00     | 4           | 12          |
| Nut, Kep No. 4-40                                      | 90-06567-00     | 8           | 5           |
| Nut, Kep No. 6-32                                      | 90-08055-00     | 6           | 6           |
| Nut, Retaining                                         | 12-27764-01     | 7           | 4           |
| Pad, Insulator                                         | 74-33418-01     | 6           | 8           |
| PANEL ASSEMBLY, BACK                                   | 70-26222-01     | 2           | 7           |
| PANEL ASSEMBLY, BACK                                   | 70-26222-01     | 5           | N/A         |
| PANEL ASSEMBLY, CONTROL                                | 70-25453-01     | 1           | 3           |
| PANEL ASSEMBLY, CONTROL                                | 70-25453-01     | 7           | N/A         |
| PANEL ASSEMBLY, FRONT                                  | 70-25433-02     | 1           | 5           |
| PANEL ASSEMBLY, FRONT                                  | 70-25433-02     | 10          | N/A         |
| Panel Assembly, Mass Storage<br>(Replaces 70-26252-01) | 70-25795-02     | 1           | 2           |
| Panel, DSSI Control                                    | 54-17388-01     | 7           | 1           |

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# **INDEX BY DEC PART DESCRIPTION** **R215F EXPANDER**

| DESCRIPTION                                                             | DEC<br>PART NO. | FIG.<br>NO. | ITEM<br>NO. |
|-------------------------------------------------------------------------|-----------------|-------------|-------------|
| Panel, Front                                                            | 74-36458-01     | 16          | 2           |
| Panel, Left                                                             | 74-36511-01     | 3           | 17          |
| Panel, Left Side                                                        | 74-33694-01     | 9           | 5           |
| Panel, Rear                                                             | 74-36458-01     | 9           | 4           |
| Panel, Right                                                            | 74-36510-01     | 3           | 16          |
| Panel, Right Side                                                       | 74-33647-01     | 9           | 9           |
| Pin Alignment                                                           | 12-30363-01     | 8           | 2           |
| Pin, Roll                                                               | 90-09385-00     | 11          | 4           |
| Plug, Button                                                            | 90-07064-00     | 1           | 18          |
| POWER SUPPLY ASSEMBLY, H7868 (120V)                                     | H7868-A         | 2           | 2           |
| POWER SUPPLY ASSEMBLY, H7868 (120V)                                     | H7868-A         | 6           | N/A         |
| POWER SUPPLY ASSEMBLY, H7868 (240V)                                     | H7868-B         | 6           | N/A         |
| POWER SUPPLY ASSEMBLY, H7868 (240V)                                     | H7868-B         | 2           | 2           |
| R215F EXPANDER                                                          | N/A             | 1           | N/A         |
| R215F-A2 (120V) (w/o Skins)                                             | R215F-A2        | 1           | N/A         |
| R215F-A3 (240V) (w/o Skins)                                             | R215F-A3        | 1           | N/A         |
| R215F-B2 (120V) (w/Skins)                                               | R215F-B2        | 1           | N/A         |
| R215F-B3 (240V) (w/Skins)                                               | R215F-B3        | 1           | N/A         |
| RF30 ISE                                                                | RF30-EA         | 1           | 27          |
| Ring, Retaining                                                         | 90-09257-05     | 10          | 16          |
| Rivet, Blind                                                            | 90-00030-40     | 3           | 12          |
| Screw, Captive No. 6-32 (added)                                         | 12-30239-01     | 6           | 18          |
| Screw, Captive Socket Hex Hd No. 1/4-20 x 1/2<br>(Replaces 90-06320-08) | 90-06370-08     | 1           | 21          |
| Screw, Fillister Slotted Hd No. 6-32 x 5/16                             | 12-27451-01     | 3           | 15          |
| Screw, Hex Hd Roll Thd No. 6-32 x 5/16                                  | 90-10075-03     | 2           | 12          |
| Screw, Mach Flat Hd (Metric) 02.5 x .08                                 | 90-10917-01     | 8           | 4           |
| Screw, Mach Flat Hd (Metric) 02.5M x .08                                | 90-10917-01     | 1           | 8           |
| Screw, Phi Shoulder Hd No. 6-32 x 1/2                                   | 12-27772-01     | 6           | 13          |
| Screw, Phi Truss Hd No. 6-32 x 1/2                                      | 90-06024-03     | 1           | 33          |
| Screw, Self-Tap Phi Hd No. 8-16 x 1/2                                   | 90-09800-08     | 9           | 8           |
| Screw, Self-Tap Phi Pan Hd No. 6-19 x 3/8                               | 90-09800-06     | 11          | 6           |
| Screw, Self-Tap Phi Pan Hd No. 6-19 x 3/8                               | 90-09800-06     | 10          | 9           |
| Screw, Self-Tap Phi Pan Hd No. 8-16 x 1/2                               | 90-09800-08     | 1           | 23          |
| Screw, Self-Tap Phi Pan Hd No. 8-16 x 3/8                               | 90-09800-04     | 9           | 3           |
| Screw, Self-Tap Phi Pan Hd No. 8-16 x 3/8                               | 90-09800-04     | 10          | 10          |
| Screw, Self-Tap Truss Hd No. 6 x 5/16                                   | 90-00063-78     | 5           | 4           |
| Screw, Self-Tap Truss Hd No. 6 x 5/16                                   | 90-00063-78     | 7           | 5           |
| Screw, Sems Phi Pan Hd No. 4-40 x 3/8                                   | 90-09643-00     | 6           | 19          |
| Screw, Sems Phi Pan Hd No. 6-32 x 1/4                                   | 90-10174-00     | 2           | 9           |
| Screw, Sems Phi Pan Hd No. 6-32 x 3/8                                   | 90-00049-24     | 4           | 13          |
| Screw, Sems Phi Pan Hd No. 6-32 x 5/16                                  | 90-00049-57     | 4           | 5           |
| Screw, Sems Phi Pan Hd No. 6-32 x 5/16                                  | 90-09984-07     | 6           | 21          |
| Screw, Sems Phi Pan Hd No. 8-32 x 5/16                                  | 90-10174-01     | 4           | 16          |
| Screw, Sems Phi Truss Hd No. 6-32 x 1/4                                 | 90-00049-30     | 1           | 7           |
| Screw, Shoulder No. 8-32                                                | 12-27034-01     | 4           | 9           |

## **\*\*\*NOTE\*\*\***

When the description includes "added" or "deleted", ALWAYS refer to the figure parts list for the latest related part description.

**INDEX BY DEC PART DESCRIPTION**  
**R215F EXPANDER**

| DESCRIPTION                                | DEC<br>PART NO. | FIG.<br>NO. | ITEM<br>NO. |
|--------------------------------------------|-----------------|-------------|-------------|
| Screw, Shoulder, Socket Hd No. 6-32 x .068 | 12-29665-01     | 7           | 3           |
| Screw, Thread Rolling Shoulder             | 12-26868-01     | 9           | 11          |
| Screwdriver, Flat Blade 3/16 x 4           | 47-00042-00     | 1           | Not Shown   |
| Shaft, Wheel                               | 74-34069-01     | 11          | 3           |
| Shock Mount Assembly, RF30 (Bottom)        | 70-25452-01     | 1           | 28          |
| Shock Mount Assembly, RF30 (Top)           | 70-25452-02     | 1           | 26          |
| Sleeve                                     | 74-34424-01     | 9           | 6           |
| Spring, Channel                            | 74-34066-01     | 10          | 7           |
| Spring, Compression                        | 12-27235-02     | 6           | 5           |
| Spring, Compression                        | 12-27445-01     | 6           | 11          |
| Stop, Door Position                        | 74-34363-01     | 10          | 6           |
| Support Panel, Back Panel                  | 74-36508-01     | 5           | 1           |
| Support, Connector                         | 74-36517-01     | 3           | 14          |
| Support, Label                             | 74-34846-01     | 11          | 5           |
| Support, Spring                            | 74-34431-01     | 6           | 4           |
| Switch Assembly, AC                        | 70-25455-01     | 2           | 6           |
| Tie, Cable                                 | 90-07880-00     | 4           | 6           |
| Tie, Cable                                 | 90-07880-00     | 2           | 5           |
| Tie, Cable (deleted)                       | 90-07031-00     | 2           | 16          |
| Top Assembly (Weldment) (Shipping Bracket) | 70-25445-01     | 3           | 13          |
| Tubing, Shrink                             | 12-30339-01     | 6           | 23          |
| Tumbler                                    | 74-34063-01     | 10          | 15          |
| Washer, External Tooth Lock No. 6          | 90-07649-00     | 6           | 12          |
| Washer, Flat                               | 90-06664-00     | 4           | 11          |
| Washer, Flat                               | 90-06659-00     | 4           | 4           |
| Washer, Flat                               | 90-06661-00     | 9           | 7           |
| Washer, Flat                               | 90-06661-00     | 1           | 24          |
| Washer, Lock Internal Steel                | 90-06637-00     | 1           | 22          |
| Washer, Retaining                          | 12-30421-01     | 4           | 14          |
| Washer, Retaining (added)                  | 12-30421-01     | 6           | 18          |
| Washer, Retaining (Replaces 12-27764-01)   | 12-30421-01     | 6           | 9           |
| Washer, Self-Lock                          | 90-07649-00     | 1           | 34          |
| Weldment, Fan Tray                         | 70-25449-01     | 4           | 1           |
| Wheel, Base                                | 74-34063-01     | 11          | 2           |

**\*\*\*NOTE\*\*\***

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