

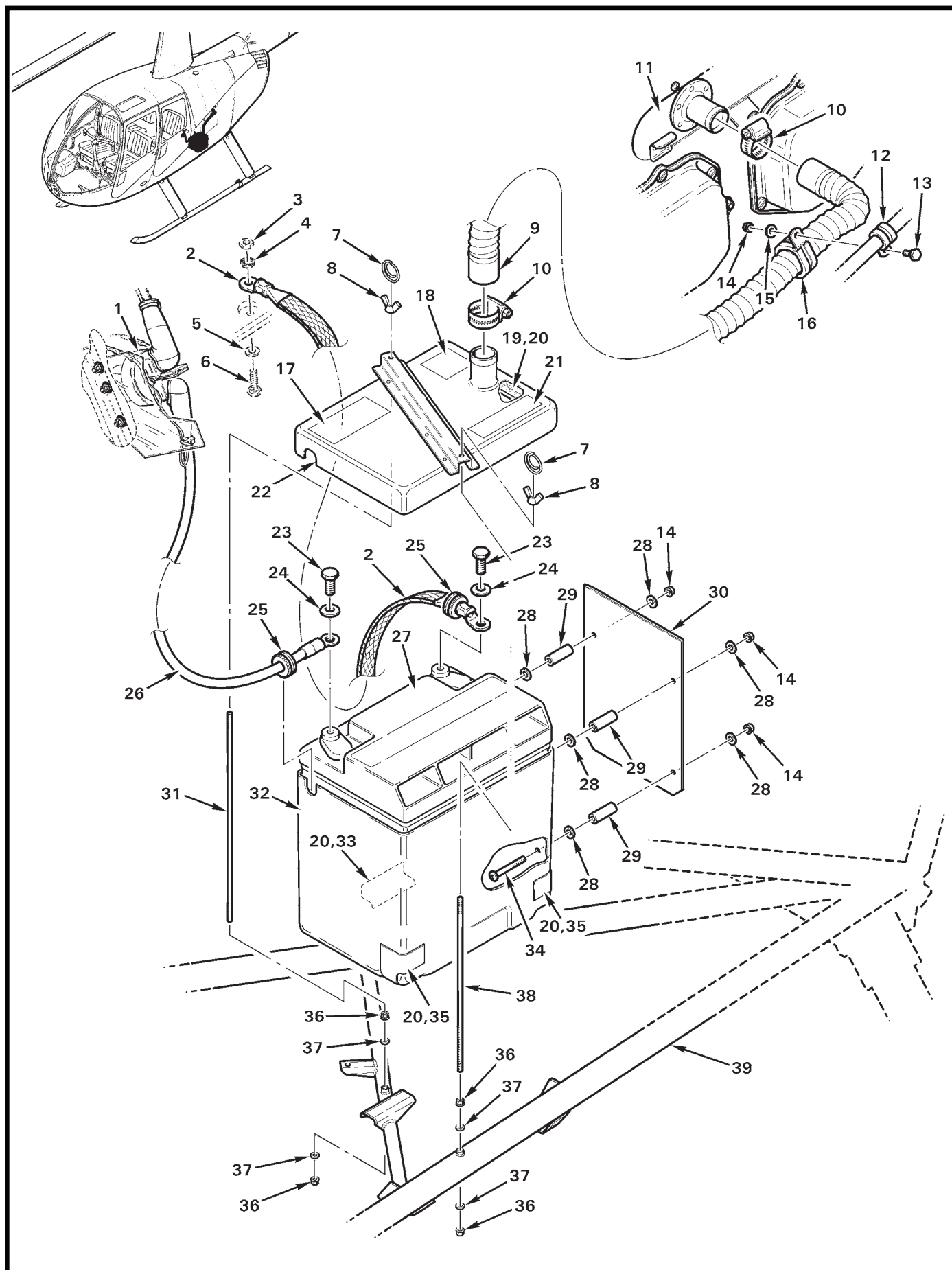
## CHAPTER 96

### ELECTRICAL SYSTEM

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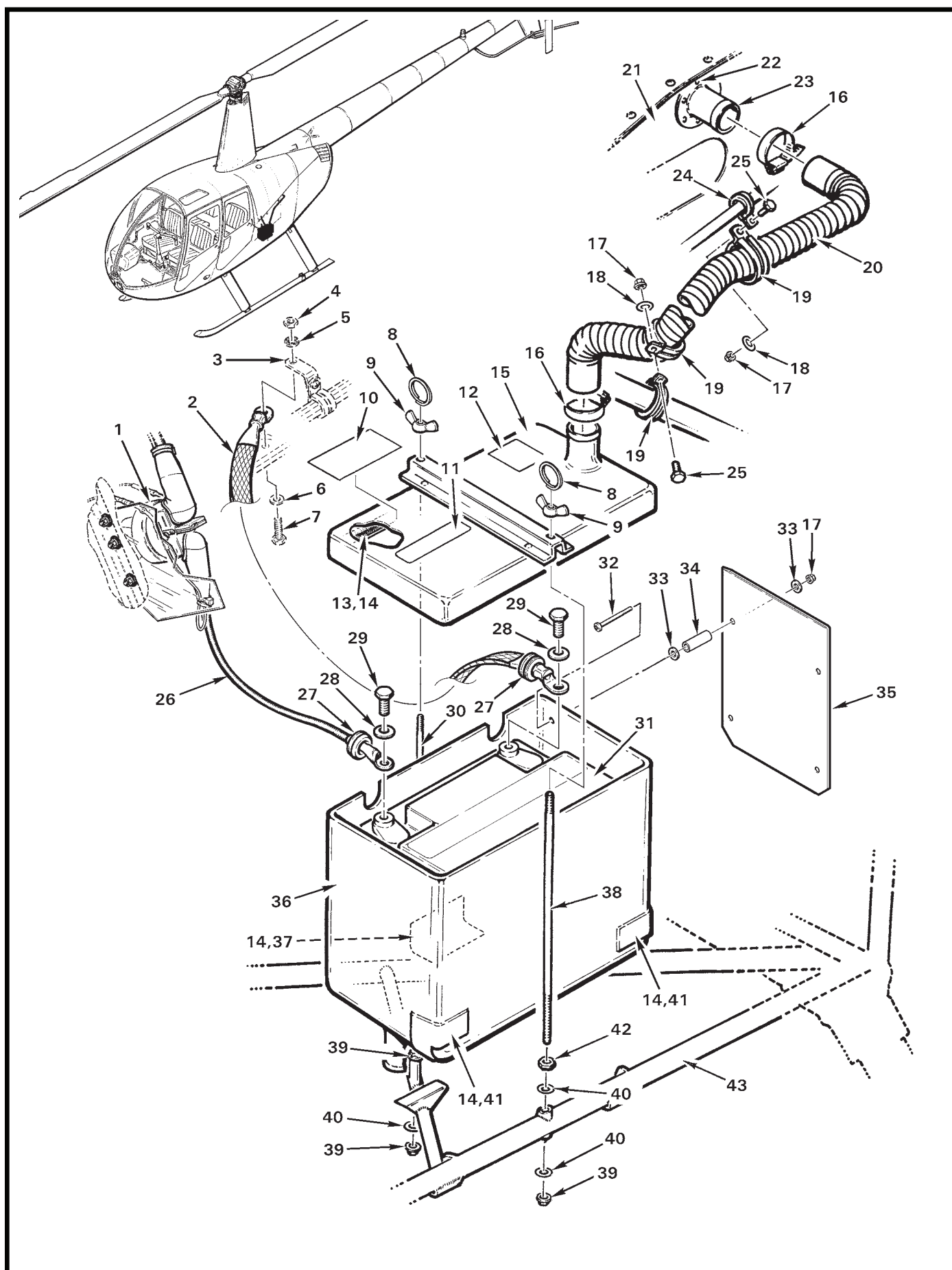
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| FIGURE<br>AND<br>INDEX<br>NUMBER                                            | PART NUMBER   | DESCRIPTION                                                                                   | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|-----------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------|----------------|--------------------|
|                                                                             |               | AFT BATTERY INSTALLATION (14V)*                                                               |                |                    |
| 96-1-1                                                                      | B415-1        | Battery Relay (14-volt, Ref; see Figure 96-33 and 96-37 for complete installation)            |                |                    |
| 2                                                                           | A780-22       | Cable Assembly - Battery Negative . . . . .                                                   | X              | 1                  |
| 3                                                                           | STD-1411**    | Nut (Ref)                                                                                     |                |                    |
| 4                                                                           | STD-160**     | Lockwasher (Ref)                                                                              |                |                    |
| 5                                                                           | STD-8**       | Washer (Ref)                                                                                  |                |                    |
| 6                                                                           | LW-25-1.13**  | Bolt (Ref)                                                                                    |                |                    |
| 7                                                                           | 95390A317     | Circle Cotter . . . . .                                                                       | X              | 2                  |
| 8                                                                           | 94924A009     | Wingnut . . . . .                                                                             | X              | 2                  |
| 9                                                                           | A785-33       | Hose . . . . .                                                                                | X              | 1                  |
| 10                                                                          | B277-12       | Clamp . . . . .                                                                               | X              | 2                  |
| 11                                                                          | C449-3        | Cover Assembly (Ref, see also Figure 71-31)                                                   |                |                    |
| 12                                                                          | MS21919WDG8   | Clamp . . . . .                                                                               | X              | 1                  |
| 13                                                                          | AN3-4A        | Bolt . . . . .                                                                                | X              | 1                  |
| 14                                                                          | MS21042L3     | Nut . . . . .                                                                                 | X              | 5                  |
| 15                                                                          | NAS1149F0332P | Washer . . . . .                                                                              | X              | 1                  |
| 16                                                                          | MS21919WDG18  | Clamp . . . . .                                                                               | X              | 1                  |
| 17                                                                          | C654-44       | Decal - " + 12V " . . . . .                                                                   | X              | 1                  |
| 18                                                                          | C654-45       | Decal - " — " . . . . .                                                                       | X              | 1                  |
| 19                                                                          | R5556         | Seal (install using item 20) . . . . .                                                        | X              | A/R                |
| 20                                                                          | B270-8qt      | Adhesive (or B270-8qt) . . . . .                                                              | X              | A/R                |
| 21                                                                          | C654-21       | Decal - "Caution; Install Only Sealed Maintenance-Free Battery" . . . . .                     | X              | 1                  |
| 22                                                                          | C955-9        | Cover Assembly (14-volt ships; includes items 17 thru 21) . . . .                             | O              | 1                  |
| 23                                                                          | —             | Bolt (M8) . . . . .                                                                           | O              | 2                  |
| 24                                                                          | —             | Washer - Conical (M8) . . . . .                                                               | O              | 2                  |
| 25                                                                          | MS35489-40    | Grommet . . . . .                                                                             | X              | 2                  |
| 26                                                                          | A780-25       | Cable Assembly - Battery Positive . . . . .                                                   | X              | 1                  |
| 27                                                                          | B237-6        | Battery (Sealed case, 12-volt; includes items 23 and 24. Concorde part no. RG25XC.) . . . . . | X              | 1                  |
| 28                                                                          | NAS1149F0363P | Washer . . . . .                                                                              | X              | 8                  |
| 29                                                                          | A130-15       | Spacer . . . . .                                                                              | X              | 4                  |
| NOTES      * When C046-21 lower frame is installed.<br>** Lycoming part no. |               |                                                                                               |                |                    |
|                                                                             |               |                                                                                               |                | Continues          |

| FIGURE<br>AND<br>INDEX<br>NUMBER               | PART NUMBER  | DESCRIPTION                                                                                              | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|------------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------|----------------|--------------------|
|                                                |              | AFT BATTERY INSTALLATION (14V)* (Cont'd)                                                                 |                |                    |
| 96-1-30                                        | A954-1       | Shield . . . . .                                                                                         | X              | 1                  |
| 31                                             | A923-8       | Rod (inboard) . . . . .                                                                                  | X              | 1                  |
| 32                                             | C955-8       | Battery Box Assembly (14-volt ships; includes items 14, 20,<br>22, 28 thru 30, and 33 thru 35) . . . . . | X              | 1                  |
| 33                                             | C955-12      | Pad (install using item 20) . . . . .                                                                    | X              | 1                  |
| 34                                             | MS27039C1-24 | Screw . . . . .                                                                                          | X              | 4                  |
| 35                                             | A955-4       | Pad (install using item 20) . . . . .                                                                    | X              | 2                  |
| 36                                             | MS21042L08   | Nut . . . . .                                                                                            | X              | 4                  |
| 37                                             | NAS620-8L    | Washer . . . . .                                                                                         | X              | 4                  |
| 38                                             | A923-7       | Rob (outboard) . . . . .                                                                                 | X              | 1                  |
| 39                                             | C046-21      | Lower Frame - (LH, Ref)                                                                                  |                |                    |
| NOTES * When C046-21 lower frame is installed. |              |                                                                                                          |                |                    |

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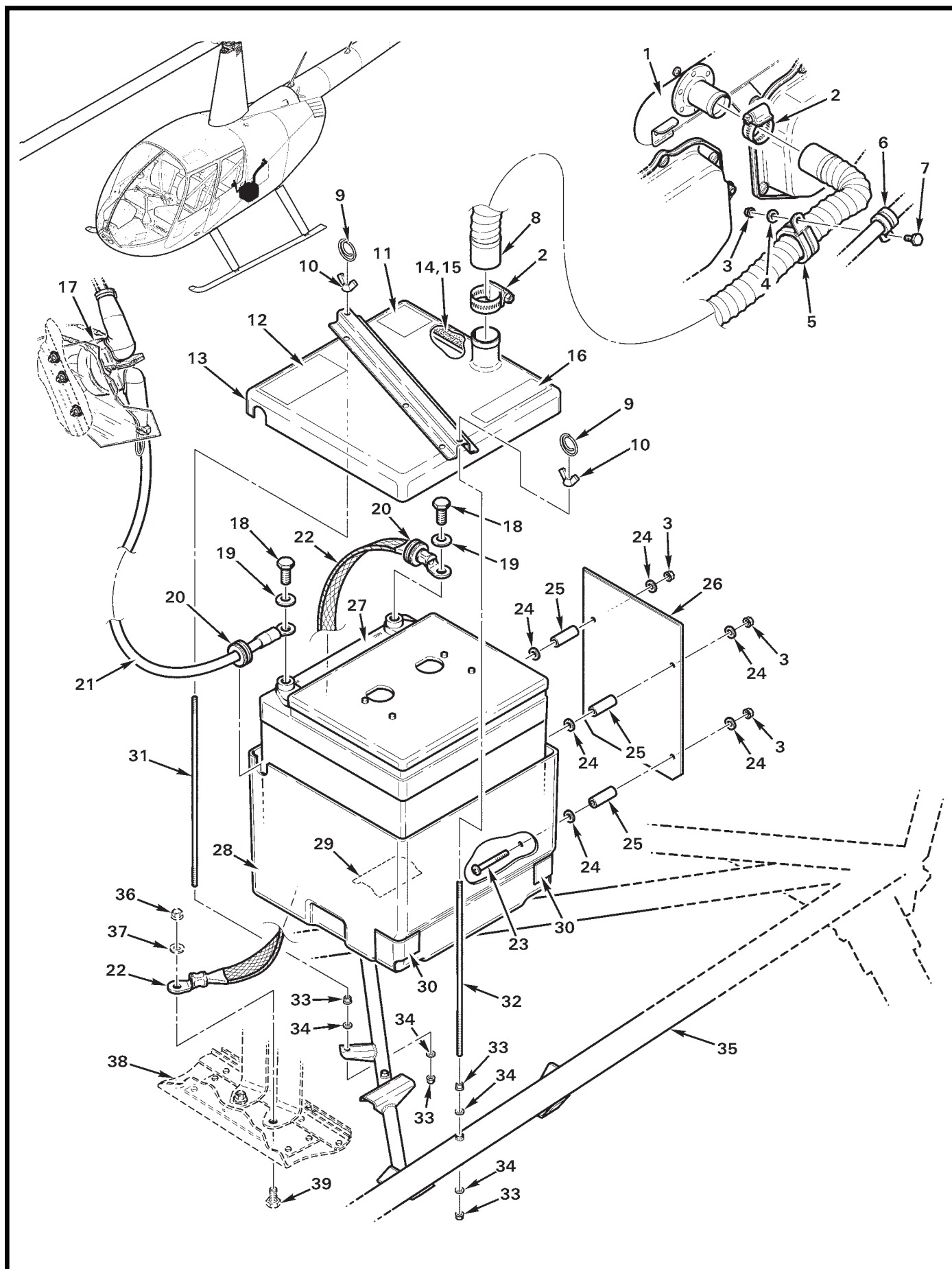
| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                                                                                   | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|---------------|-----------------------------------------------------------------------------------------------|----------------|--------------------|
|                                  |               | AFT BATTERY INSTALLATION (14V)*                                                               |                |                    |
| 96-5-1                           | B415-1**      | Relay (Ref, 14-volt ships; see Figure 96-33 and Figure 96-37 for complete relay installation) |                |                    |
| 2                                | A780-2        | Cable Assembly - Battery Negative . . . . .                                                   | X              | 1                  |
| 3                                | C357-1        | Clip (Ref)                                                                                    |                |                    |
| 4                                | STD-1411***   | Nut (Ref)                                                                                     |                |                    |
| 5                                | STD-160***    | Lockwasher (Ref)                                                                              |                |                    |
| 6                                | STD-8***      | Washer (Ref)                                                                                  |                |                    |
| 7                                | LW-25-1.13*** | Bolt (Ref)                                                                                    |                |                    |
| 8                                | 95390A317     | Circle Cotter . . . . .                                                                       | X              | 2                  |
| 9                                | 94924A009     | Wingnut . . . . .                                                                             | X              | 2                  |
| 10                               | C654-44       | Decal "12V" (14-volt ships) . . . . .                                                         | X              | 1                  |
| 11                               | C654-21       | Decal - "Caution; Install Only Sealed Maintenance-Free Battery" . . . . .                     | X              | 1                  |
| 12                               | C654-45       | Decal - "—" . . . . .                                                                         | X              | 1                  |
| 13                               | R5556         | Seal (install using item 14) . . . . .                                                        | X              | A/R                |
| 14                               | B270-14       | Adhesive (or B270-8qt) . . . . .                                                              | X              | A/R                |
| 15                               | C955-7        | Cover Assembly (14-volt ships; includes items 10 thru 14) . . . .                             | O              | 1                  |
| 16                               | B277-12       | Clamp . . . . .                                                                               | X              | 2                  |
| 17                               | MS21042L3     | Nut . . . . .                                                                                 | X              | 16                 |
| 18                               | NAS1149F0332P | Washer . . . . .                                                                              | X              | 4                  |
| 19                               | MS21919WDG16  | Clamp . . . . .                                                                               | X              | A/R                |
| 20                               | A785-22       | Hose . . . . .                                                                                | X              | 1                  |
| 21                               | C305-7        | Panel - LH (Ref, see also Figure 71-35)                                                       |                |                    |
| 22                               | MS20470AD3-3  | Rivet (Ref)                                                                                   |                |                    |
| 23                               | A372-1        | Tube (Ref)                                                                                    |                |                    |
| 24                               | MS21919WDG8   | Clamp . . . . .                                                                               | X              | 1                  |
| 25                               | AN3-4A        | Bolt . . . . .                                                                                | X              | 2                  |
| 26                               | A780-25       | Cable Assembly - Battery Positive . . . . .                                                   | X              | 1                  |
| 27                               | MS35489-40    | Grommet . . . . .                                                                             | X              | 2                  |
| 28                               | —             | Washer - Conical (M8) . . . . .                                                               | O              | 2                  |
| 29                               | —             | Bolt (M8) . . . . .                                                                           | O              | 2                  |
| 30                               | A923-4        | Rod (inboard; for C046-1 and -19 frames) . . . . .                                            | X              | 1                  |

NOTES \* When C046-1 or -19 lower frame is installed.  
 \*\* Ship S/N 0945 and higher. For ship S/N 0001 thru 0944, see Figure 96-33.  
 \*\*\* Lycoming part no.

Continues

| FIGURE<br>AND<br>INDEX<br>NUMBER                     | PART NUMBER   | DESCRIPTION                                                                                                                                                         | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|
|                                                      |               | AFT BATTERY INSTALLATION (14V)* (Cont'd)                                                                                                                            |                |                    |
| 96-5-31                                              | B237-6        | Battery (Sealed case, 12-volt; includes items 28 and 29. Ship S/N 0247 and higher. Concorde part no. RG25XC. To replace non-sealed battery, contact RHC.) . . . . . | X              | 1                  |
| 32                                                   | MS27039C1-24  | Screw . . . . .                                                                                                                                                     | X              | 4                  |
| 33                                                   | NAS1149F0363P | Washer . . . . .                                                                                                                                                    | X              | 8                  |
| 34                                                   | A130-15       | Spacer . . . . .                                                                                                                                                    | X              | 4                  |
| 35                                                   | A954-1        | Shield . . . . .                                                                                                                                                    | X              | 1                  |
| 36                                                   | C955-3        | Battery Box Assembly (14-volt ships; includes items 14, 15, 17 [4], 32 thru 35, 37, and 41) . . . . .                                                               | X              | 1                  |
| 37                                                   | A955-3        | Pad (install using item 14) . . . . .                                                                                                                               | X              | 1                  |
| 38                                                   | A923-3        | Rod (outboard; for C046-1 and -19 frames) . . . . .                                                                                                                 | X              | 1                  |
| 39                                                   | MS21042L08    | Nut . . . . .                                                                                                                                                       | X              | 3                  |
| 40                                                   | NAS1149FN816P | Washer . . . . .                                                                                                                                                    | X              | 3                  |
| 41                                                   | A955-4        | Pad (install using item 14) . . . . .                                                                                                                               | X              | 2                  |
| 42                                                   | AN340-8       | Nut . . . . .                                                                                                                                                       | X              | 1                  |
| 43                                                   | C046-1 or -19 | Frame (Ref)                                                                                                                                                         |                |                    |
| NOTES * When C046-1 or -19 lower frame is installed. |               |                                                                                                                                                                     |                |                    |

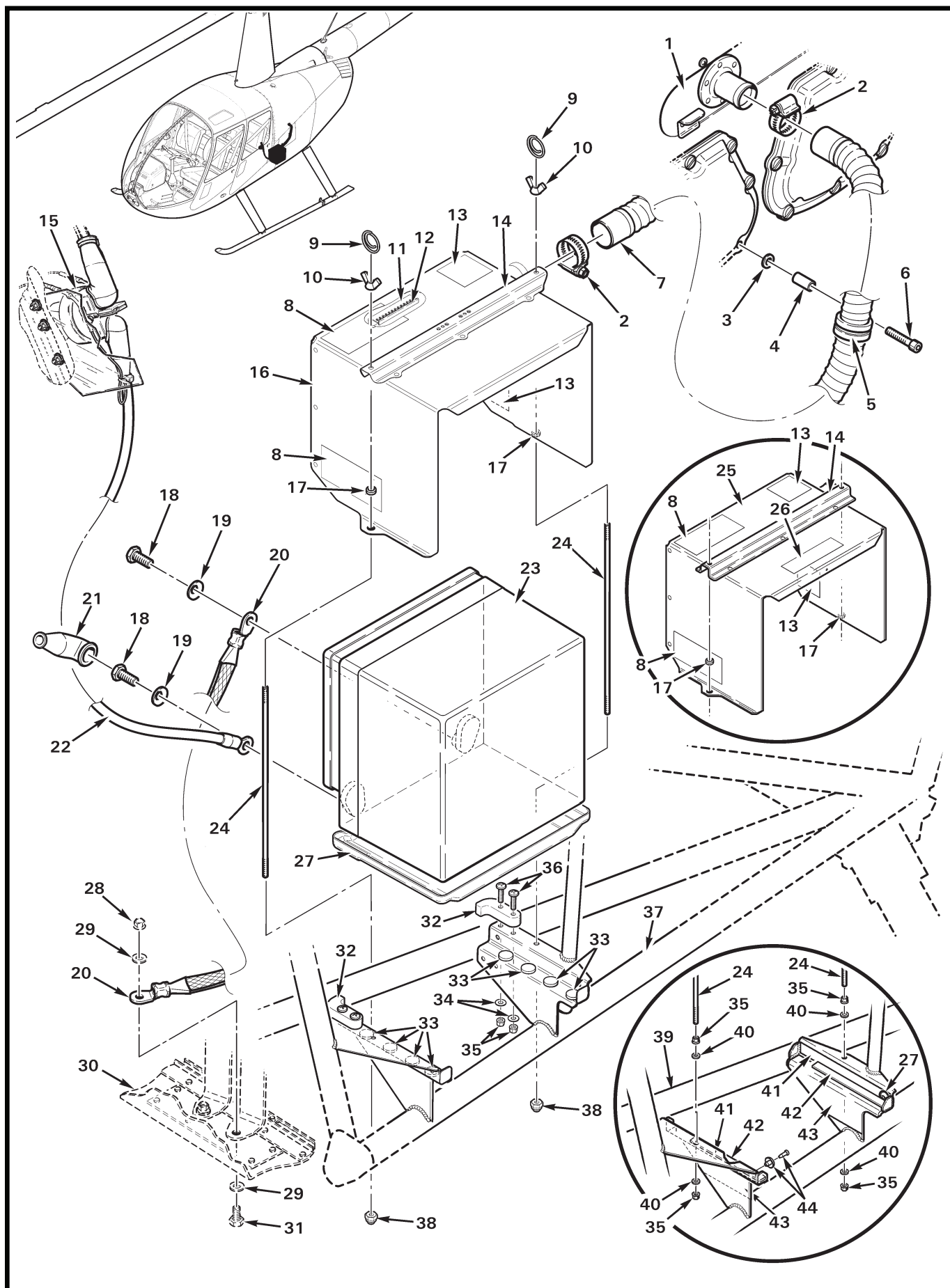
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| FIGURE<br>AND<br>INDEX<br>NUMBER               | PART NUMBER   | DESCRIPTION                                                                                      | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|------------------------------------------------|---------------|--------------------------------------------------------------------------------------------------|----------------|--------------------|
|                                                |               | AFT BATTERY INSTALLATION (28V)*                                                                  |                |                    |
| 96-9-1                                         | C449-3        | Cover Assembly (Ref, see also Figure 71-31)                                                      |                |                    |
| 2                                              | B277-12       | Clamp . . . . .                                                                                  | X              | 2                  |
| 3                                              | MS21042L3     | Nut . . . . .                                                                                    | X              | 5                  |
| 4                                              | NAS1149F0332P | Washer . . . . .                                                                                 | X              | 1                  |
| 5                                              | MS21919WDG18  | Clamp . . . . .                                                                                  | X              | 1                  |
| 6                                              | MS21919WDG8   | Clamp . . . . .                                                                                  | X              | 1                  |
| 7                                              | AN3-4A        | Bolt . . . . .                                                                                   | X              | 1                  |
| 8                                              | A785-33       | Hose . . . . .                                                                                   | X              | 1                  |
| 9                                              | 95390A317     | Circle Cotter . . . . .                                                                          | X              | 2                  |
| 10                                             | 94924A009     | Wingnut . . . . .                                                                                | X              | 2                  |
| 11                                             | C654-45       | Decal - "—" . . . . .                                                                            | X              | 1                  |
| 12                                             | C654-43       | Decal - "+ 24V" . . . . .                                                                        | X              | 1                  |
| 13                                             | C955-11       | Cover Assembly (28-volt ships; includes items 11, 12, and 14 thru 16) . . . . .                  | O              | 1                  |
| 14                                             | A540-4        | Seal (install using item 15) . . . . .                                                           | X              | A/R                |
| 15                                             | B270-14       | Adhesive (or B270-8qt) . . . . .                                                                 | X              | A/R                |
| 16                                             | C654-21       | Decal - "Caution; Install Only Sealed Maintenance-Free Battery" . . . . .                        | X              | 1                  |
| 17                                             | B415-2        | Relay (28-volt, Ref; see Figure 96-33 and Figure 96-37)                                          |                |                    |
| 18                                             | —             | Bolt (M8) . . . . .                                                                              | O              | 2                  |
| 19                                             | —             | Washer - Conical (M8) . . . . .                                                                  | O              | 2                  |
| 20                                             | MS35489-40    | Grommet . . . . .                                                                                | X              | 2                  |
| 21                                             | A780-25       | Cable Assembly - Battery Positive . . . . .                                                      | X              | 1                  |
| 22                                             | A780-22       | Cable Assembly - Battery Negative . . . . .                                                      | X              | 1                  |
| 23                                             | MS27039C1-24  | Screw . . . . .                                                                                  | X              | 4                  |
| 24                                             | NAS1149F0363P | Washer . . . . .                                                                                 | X              | 8                  |
| 25                                             | A130-15       | Spacer . . . . .                                                                                 | X              | 4                  |
| 26                                             | A954-1        | Shield . . . . .                                                                                 | X              | 1                  |
| 27                                             | B237-4        | Battery (Sealed case, 24-volt; includes items 18 and 19. Concorde part no. RG24-15.) . . . . .   | X              | 1                  |
| 28                                             | C955-10       | Battery Box Assembly (28-volt ships; includes items 3, 13, 15, 23 thru 26, 29, and 30) . . . . . | X              | 1                  |
| 29                                             | C955-12       | Pad (install using item 15) . . . . .                                                            | X              | 1                  |
| NOTES * When C046-21 lower frame is installed. |               |                                                                                                  |                |                    |
|                                                |               |                                                                                                  |                | Continues          |

| FIGURE<br>AND<br>INDEX<br>NUMBER               | PART NUMBER   | DESCRIPTION                              | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|------------------------------------------------|---------------|------------------------------------------|----------------|--------------------|
|                                                |               | AFT BATTERY INSTALLATION (28V)* (Cont'd) |                |                    |
| 96-9-30                                        | A955-4        | Pad (install using item 15) . . . . .    | X              | 2                  |
| 31                                             | A923-10       | Rod (inboard) . . . . .                  | X              | 1                  |
| 32                                             | A923-9        | Rod (outboard) . . . . .                 | X              | 1                  |
| 33                                             | MS21042L08    | Nut . . . . .                            | X              | 4                  |
| 34                                             | NAS620-8L     | Washer . . . . .                         | X              | 4                  |
| 35                                             | C046-21       | Lower Frame - (LH, Ref)                  |                |                    |
| 36                                             | MS21042L4     | Nut (Ref)                                |                |                    |
| 37                                             | NAS1149F0432P | Washer (Ref)                             |                |                    |
| 38                                             | C015-3        | Skin (LH cabin belly; Ref)               |                |                    |
| 39                                             | AN4-4A        | Bolt (Ref)                               |                |                    |
| NOTES * When C046-21 lower frame is installed. |               |                                          |                |                    |

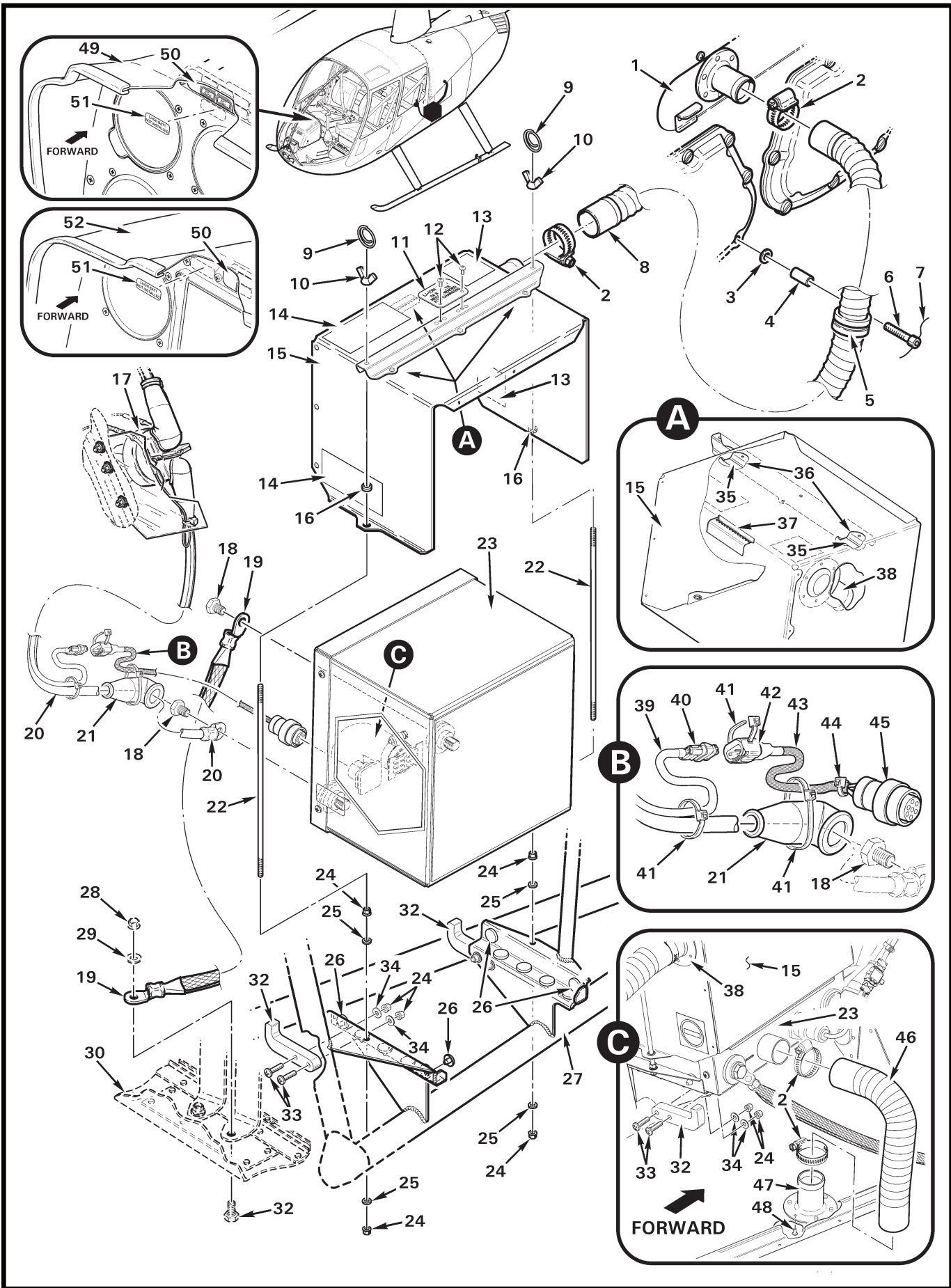
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| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                                                                                       | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|---------------|---------------------------------------------------------------------------------------------------|----------------|--------------------|
|                                  |               | AFT BATTERY INSTALLATION (28V)                                                                    |                |                    |
| 96-12A-1                         | C449-3        | Cover Assembly (Ref, see also Figure 71-31)                                                       |                |                    |
| 2                                | B277-12       | Clamp . . . . .                                                                                   | X              | 2                  |
| 3                                | NAS1149F0432P | Washer . . . . .                                                                                  | X              | 1                  |
| 4                                | C130-34       | Spacer . . . . .                                                                                  | X              | 1                  |
| 5                                | MS21333-107   | Clamp . . . . .                                                                                   | X              | 1                  |
| 6                                | NAS1352-4H20P | Screw . . . . .                                                                                   | X              | 1                  |
| 7                                | A785-35       | Hose . . . . .                                                                                    | X              | 1                  |
| 8                                | C654-43       | Decal – “+ 24V” . . . . .                                                                         | X              | 2                  |
| 9                                | 95390A317     | Circle Cotter . . . . .                                                                           | X              | 2                  |
| 10                               | 94924A009     | Wing Nut . . . . .                                                                                | X              | 2                  |
| 11                               | A409-1        | Angle . . . . .                                                                                   | X              | 1                  |
| 12                               | A225-1        | Grommet . . . . .                                                                                 | X              | A/R                |
| 13                               | C654-45       | Decal – “—” . . . . .                                                                             | X              | 2                  |
| 14                               | A922-6        | Channel (Ref)                                                                                     | X              | 1                  |
| 15                               | B415-2        | Relay (Ref, see Figures 96-33 and 96-37)                                                          |                |                    |
| 16                               | D809-3        | Cover Assembly (Incl items 8, 11 thru 14, and 17) . . . . .                                       | X              | 1                  |
| 17                               | NAS557-3A     | Grommet . . . . .                                                                                 | X              | 2                  |
| 18                               | —             | Bolt (M8) . . . . .                                                                               | O              | 2                  |
| 19                               | —             | Washer – Conical (M8) . . . . .                                                                   | O              | 2                  |
| 20                               | A780-22       | Cable Assembly - Battery Negative . . . . .                                                       | X              | 1                  |
| 21                               | MS25171-2S    | Nipple . . . . .                                                                                  | X              | 1                  |
|                                  | MS25171-4S    | Nipple (superseded by MS25171-2S, this location) . . . . .                                        | X              | 1                  |
| 22                               | A780-46       | Cable Assembly – Battery Positive . . . . .                                                       | X              | 1                  |
| 23                               | B237-4        | Battery (Sealed case, 24-volt; includes items 18 and 19.<br>Concorde part no. RG24-15.) . . . . . | X              | 1                  |
| 24                               | A923-10       | Rod . . . . .                                                                                     | X              | 2                  |
| 25                               | D809-1        | Cover Assembly (Incl items 8, 13, 14, 17, and 26) . . . . .                                       | X              | 1                  |
| 26                               | C654-21       | Decal - “Caution; Install Only Sealed Maintenance-Free<br>Battery” . . . . .                      | X              | 1                  |
| 27                               | G123-3        | Tray (for B237-4 Battery) . . . . .                                                               | X              | 1                  |
| 28                               | D210-4        | Nut (Ref)                                                                                         |                |                    |
| 29                               | NAS1149F0432P | Washer (Ref)                                                                                      |                |                    |
| 30                               | C015-3        | Skin (LH cabin belly; Ref)                                                                        |                |                    |
| 31                               | AN4-4A        | Bolt (Ref)                                                                                        |                |                    |
| 32                               | D131-2        | Retainer . . . . .                                                                                | X              | 2                  |
| NOTES                            |               |                                                                                                   |                |                    |
| Continues                        |               |                                                                                                   |                |                    |

| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                                | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|---------------|--------------------------------------------|----------------|--------------------|
|                                  |               | AFT BATTERY INSTALLATION (28V) (Cont'd)    |                |                    |
| 96-12A-33                        | G405-2        | Bumper . . . . .                           | X              | 8                  |
| 34                               | NAS1149FN816P | Washer . . . . .                           | X              | 4                  |
| 35                               | MS21042L08    | Nut . . . . .                              | X              | 6                  |
| 36                               | MS27039C0810  | Screw . . . . .                            | X              | 2                  |
| 37                               | C046-26       | Frame (Ref)                                |                |                    |
| 38                               | B340-4        | Nut . . . . .                              | X              | 2                  |
| 39                               | C046-23       | Frame (Ref; see Figure 53-19)              |                |                    |
| 40                               | NAS620-8L     | Washer . . . . .                           | X              | 4                  |
| 41                               | A701-3        | Tape (0.5 in. wide polyethylene) . . . . . | X              | A/R                |
| 42                               | D832-1        | Strip . . . . .                            | X              | 2                  |
| 43                               | PPR-4850B     | Push Rivet . . . . .                       | X              | 1                  |
| NOTES                            |               |                                            |                |                    |

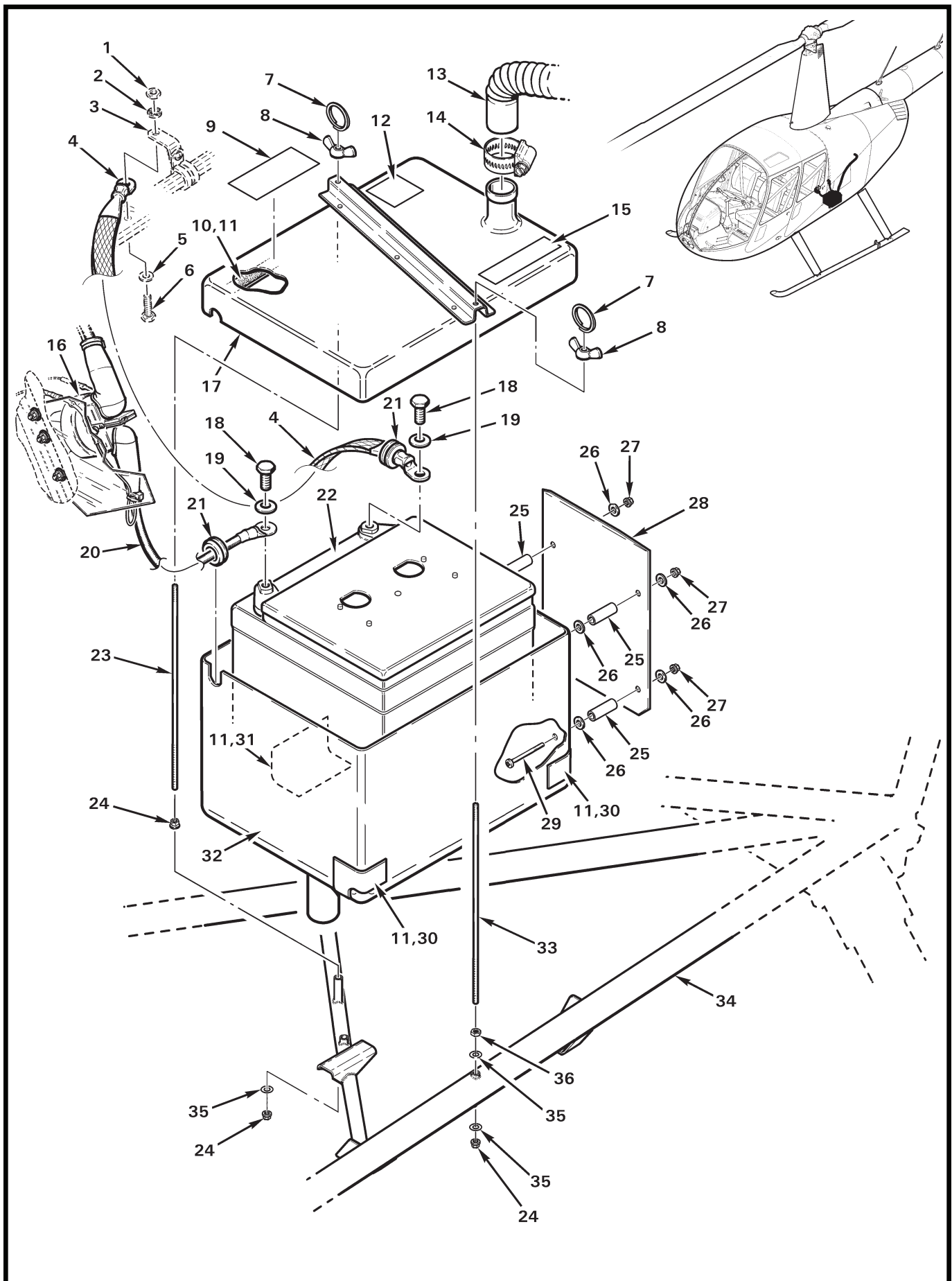
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| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                                                                                                          | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------|----------------|--------------------|
|                                  |               | <b>AFT BATTERY INSTALLATION (28V LITHIUM-ION)</b>                                                                    |                |                    |
| 96-13A-1                         | C449-3        | Cover Assembly (Ref, see also Figure 71-31)                                                                          |                |                    |
| 2                                | B277-12       | Clamp . . . . .                                                                                                      | X              | 2                  |
| 3                                | NAS1149F0432P | Washer . . . . .                                                                                                     | X              | 1                  |
| 4                                | C130-34       | Spacer . . . . .                                                                                                     | X              | 1                  |
| 5                                | MS21333-107   | Clamp . . . . .                                                                                                      | X              | 1                  |
| 6                                | NAS1352-4H20P | Screw . . . . .                                                                                                      | X              | 1                  |
| 7                                | MS20995C32    | 0.032-in. dia. Safety Wire . . . . .                                                                                 | X              | A/R                |
| 8                                | A785-35       | Hose . . . . .                                                                                                       | X              | 1                  |
| 9                                | 95390A317     | Circle Cotter . . . . .                                                                                              | X              | 2                  |
| 10                               | 94924A009     | Wingnut . . . . .                                                                                                    | X              | 2                  |
| 11                               | G598-4        | Cover . . . . .                                                                                                      | X              | 1                  |
| 12                               | MS35206-213   | Screw . . . . .                                                                                                      | X              | 2                  |
| 13                               | C654-45       | Decal – “—” . . . . .                                                                                                | X              | 2                  |
| 14                               | C654-43       | Decal – “+ 24V” . . . . .                                                                                            | X              | 2                  |
| 15                               | D809-3        | Cover Assembly (Incl items 13, 14, 16, and 35 thru 38) . . . .                                                       | X              | 1                  |
| 16                               | NAS557-3A     | Grommet . . . . .                                                                                                    | X              | 2                  |
| 17                               | B415-2        | Relay (Ref, see Figure 96-33 and Figure 96-37)                                                                       |                |                    |
| 18                               | —             | Bolt (M8) . . . . .                                                                                                  | O              | 2                  |
| 19                               | A780-22       | Cable Assembly – Battery Negative . . . . .                                                                          | X              | 1                  |
| 20                               | A780-46       | Cable Assembly – Battery Positive . . . . .                                                                          | X              | 1                  |
| 21                               | MS25171-2S    | Nipple . . . . .                                                                                                     | X              | 1                  |
| 22                               | A923-10       | Rod . . . . .                                                                                                        | X              | 2                  |
| 23                               | D237-2        | Battery (Sealed case, Lithium-Ion, 24-volt; includes item 18.<br>Mid-Continent part no. 6430017-2 (TB17).) . . . . . | X              | 1                  |
| 24                               | MS21042L08    | Nut . . . . .                                                                                                        | X              | 4                  |
| 25                               | NAS620-8L     | Washer . . . . .                                                                                                     | X              | 4                  |
| 26                               | G405-2        | Bumper . . . . .                                                                                                     | X              | 4                  |
| 27                               | C046-26       | Frame (Ref)                                                                                                          |                |                    |
| 28                               | D210-4        | Nut (Ref)                                                                                                            |                |                    |
| 29                               | NAS1149F0432P | Washer (Ref)                                                                                                         |                |                    |
| 30                               | C015-3        | Skin (LH cabin belly; Ref)                                                                                           |                |                    |
| 31                               | AN4-4A        | Bolt (Ref)                                                                                                           |                |                    |
| 32                               | D131-3        | Retainer . . . . .                                                                                                   | X              | 2                  |
| NOTES                            |               |                                                                                                                      |                |                    |
| Continues                        |               |                                                                                                                      |                |                    |

| FIGURE<br>AND<br>INDEX<br>NUMBER          | PART NUMBER   | DESCRIPTION                                                  | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|-------------------------------------------|---------------|--------------------------------------------------------------|----------------|--------------------|
|                                           |               | AFT BATTERY INSTALLATION (28V LITHIUM-ION)<br>(Cont'd)       |                |                    |
| 96-13A-33                                 | MS27039C0810  | Screw . . . . .                                              | X              | 4                  |
| 34                                        | NAS1149FN816P | Washer . . . . .                                             | X              | 4                  |
| 35                                        | A701-3        | Tape . . . . .                                               | X              | A/R                |
| 36                                        | A922-7        | Bumper (Ref)                                                 |                |                    |
| 37                                        | A225-1        | Grommet (1.95-inch length) . . . . .                         | X              | 1                  |
| 38                                        | A372-1        | Tube (Ref)                                                   |                |                    |
| 39                                        | C859          | Harness Assembly – Electrical (Ref, cabin; includes item 40) |                |                    |
| 40                                        | D269-2        | Receptacle (Ref)                                             |                |                    |
|                                           | C859-2819     | Wire (Ref)                                                   |                |                    |
|                                           | C859-2882     | Wire (Ref)                                                   |                |                    |
| 41                                        | MS3367-5-9    | Ty-Rap . . . . .                                             | X              | A/R                |
| 42                                        | D269-1        | Plug . . . . .                                               | X              | 1                  |
| 43                                        | F693-6        | Harness Assembly (Incl items 42, 44, and 45) . . . . .       | X              | 1                  |
| 44                                        | MS3367-4-0    | Ty-rap . . . . .                                             | X              | 1                  |
| 45                                        | 9018048       | Plug . . . . .                                               | X              | 1                  |
| 46                                        | A785-42       | Hose . . . . .                                               | X              | 1                  |
| 47                                        | A372-1        | Tube . . . . .                                               | X              | 1                  |
| 48                                        | MS20470AD3    | Rivet . . . . .                                              | X              | 6                  |
| 49                                        | G050          | Console Assembly (Ref)                                       |                |                    |
| 50                                        | G198          | Panel (Ref)                                                  |                |                    |
| 51                                        | D819-9*       | Decal . . . . .                                              | X              | 1                  |
| 52                                        | G060          | Console Assembly (Ref)                                       |                |                    |
| NOTES     * When D237-2 is not installed. |               |                                                              |                |                    |

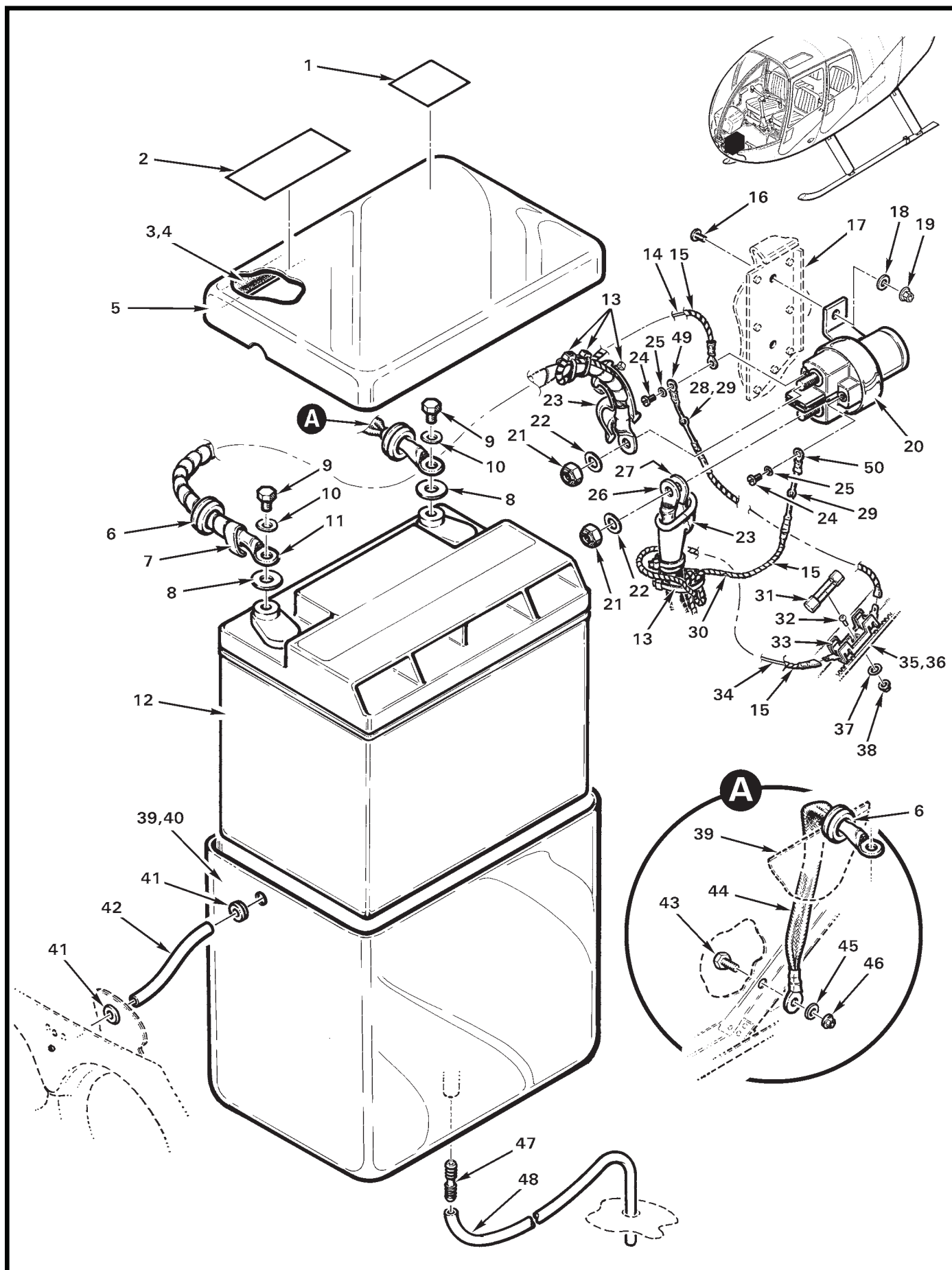
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| FIGURE<br>AND<br>INDEX<br>NUMBER                                                | PART NUMBER   | DESCRIPTION                                                                                    | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|---------------------------------------------------------------------------------|---------------|------------------------------------------------------------------------------------------------|----------------|--------------------|
|                                                                                 |               | AFT BATTERY INSTALLATION (28V)*                                                                |                |                    |
| 96-15-1                                                                         | STD-1411**    | Nut (Ref)                                                                                      |                |                    |
| 2                                                                               | STD-160**     | Lockwasher (Ref)                                                                               |                |                    |
| 3                                                                               | C357-1        | Clip (Ref)                                                                                     |                |                    |
| 4                                                                               | A780-2        | Cable Assembly - Battery Negative . . . . .                                                    | X              | 1                  |
| 5                                                                               | STD-8**       | Washer (Ref)                                                                                   |                |                    |
| 6                                                                               | LW-25-1.13**  | Bolt (Ref)                                                                                     |                |                    |
| 7                                                                               | 95390A317     | Circle Cotter . . . . .                                                                        | X              | 2                  |
| 8                                                                               | 94924A009     | Wingnut . . . . .                                                                              | X              | 2                  |
| 9                                                                               | C654-43       | Decal - "24V" (28-volt ships) . . . . .                                                        | X              | 1                  |
| 10                                                                              | R5556         | Seal (install using item 11) . . . . .                                                         | X              | A/R                |
| 11                                                                              | B270-8QT      | Adhesive . . . . .                                                                             | X              | A/R                |
| 12                                                                              | C654-45       | Decal - "—" . . . . .                                                                          | X              | 1                  |
| 13                                                                              | A785-22       | Hose . . . . .                                                                                 | X              | 1                  |
| 14                                                                              | B277-12       | Clamp . . . . .                                                                                | X              | 2                  |
| 15                                                                              | C654-21       | Decal - "Caution; Install Only Sealed Maintenance Free Battery" . . . . .                      | X              | 1                  |
| 16                                                                              | B415-2        | Relay (Ref, 28-volt ships; see Figure 96-33 and Figure 96-37 for complete installation.)       |                |                    |
| 17                                                                              | C955-6        | Cover Assembly (28-volt ships; includes items 9, 10, 12 and 15) . . . . .                      | O              | 1                  |
| 18                                                                              | —             | Bolt (M8) . . . . .                                                                            | O              | 2                  |
| 19                                                                              | —             | Washer - Conical (M8) . . . . .                                                                | O              | 2                  |
| 20                                                                              | A780-25       | Cable Assembly - Battery Positive . . . . .                                                    | X              | 1                  |
| 21                                                                              | MS35489-40    | Grommet . . . . .                                                                              | X              | 2                  |
| 22                                                                              | B237-4        | Battery (Sealed case, 24-volt; includes items 18 and 19. Concorde part no. RG24-15.) . . . . . | X              | 1                  |
| 23                                                                              | A923-6        | Rod (inboard) . . . . .                                                                        | X              | 1                  |
| 24                                                                              | MS21042L08    | Nut . . . . .                                                                                  | X              | 3                  |
| 25                                                                              | A130-15       | Spacer . . . . .                                                                               | X              | 4                  |
| 26                                                                              | NAS1149F0363P | Washer . . . . .                                                                               | X              | 8                  |
| 27                                                                              | D210-3        | Nut . . . . .                                                                                  | X              | 16                 |
| 28                                                                              | A954-1        | Shield . . . . .                                                                               | X              | 1                  |
| 29                                                                              | MS27039C1-24  | Screw . . . . .                                                                                | X              | 4                  |
| NOTES    * When C046-1 or -19 lower frame is installed.<br>** Lycoming part no. |               |                                                                                                |                |                    |
|                                                                                 |               |                                                                                                |                | Continues          |

| FIGURE<br>AND<br>INDEX<br>NUMBER                     | PART NUMBER   | DESCRIPTION                                                                                      | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|------------------------------------------------------|---------------|--------------------------------------------------------------------------------------------------|----------------|--------------------|
|                                                      |               | AFT BATTERY INSTALLATION (28V)* (Cont'd)                                                         |                |                    |
| 96-15-30                                             | A955-4        | Pad (install using item 11) . . . . .                                                            | X              | 2                  |
| 31                                                   | A955-3        | Pad (install using item 11) . . . . .                                                            | X              | 1                  |
| 32                                                   | C955-5        | Battery Box Assembly (28-volt ships; includes items 11, 17,<br>25 thru 29, 30, and 31) . . . . . | X              | 1                  |
| 33                                                   | A923-5        | Rod (outboard) . . . . .                                                                         | X              | 1                  |
| 34                                                   | C046-1 or -19 | Frame (Ref)                                                                                      |                |                    |
| 35                                                   | NAS1149FN816P | Washer . . . . .                                                                                 | X              | 3                  |
| 36                                                   | AN340-8       | Nut . . . . .                                                                                    | X              | 1                  |
| NOTES * When C046-1 or -19 lower frame is installed. |               |                                                                                                  |                |                    |

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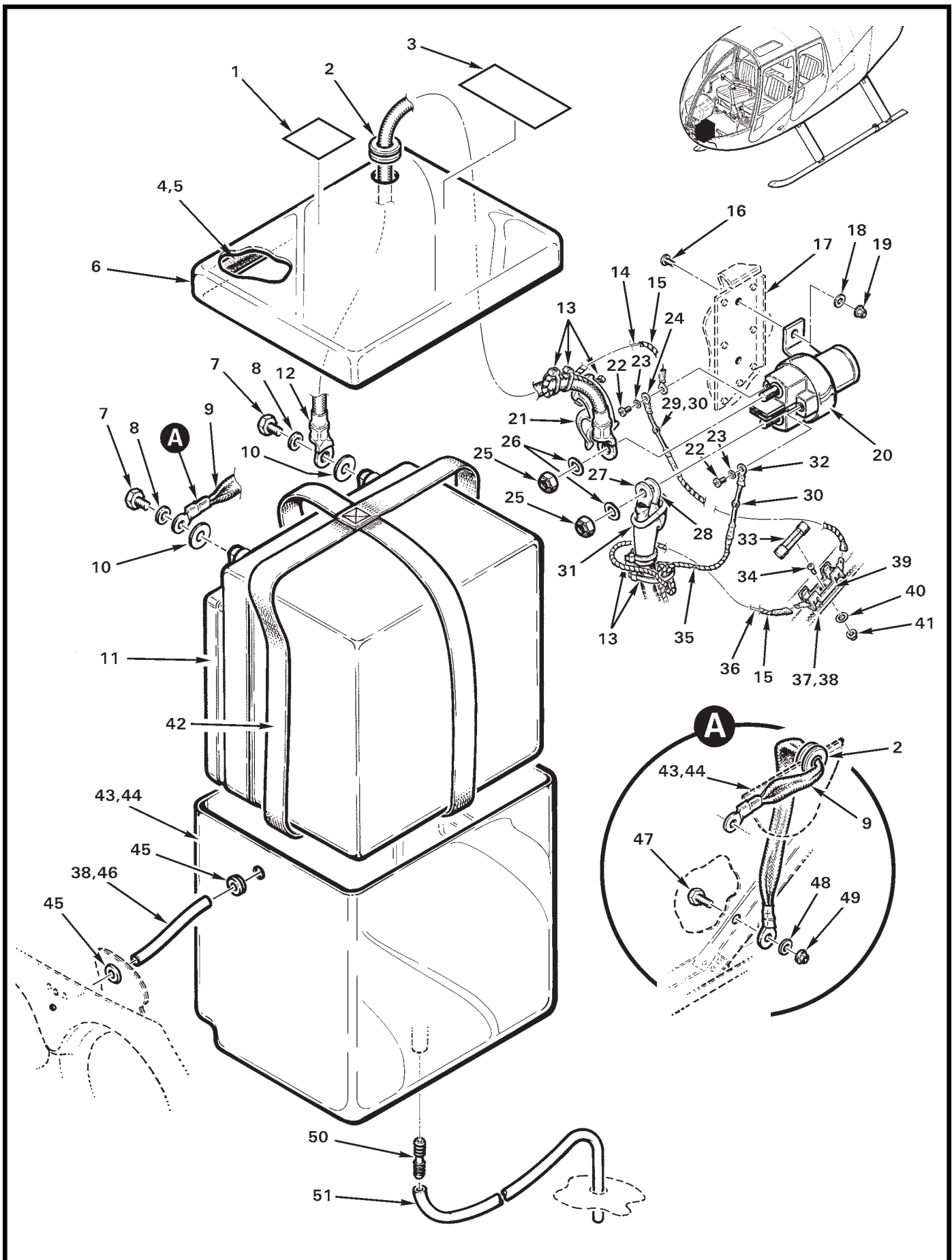
| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                                                                                     | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|---------------|-------------------------------------------------------------------------------------------------|----------------|--------------------|
|                                  |               | NOSE BATTERY INSTALLATION (14V)                                                                 |                |                    |
| 96-19-1                          | C654-45       | Decal - "—" . . . . .                                                                           | X              | 1                  |
| 2                                | C654-44       | Decal - "12V + " . . . . .                                                                      | X              | 1                  |
| 3                                | R5556         | Seal (install using item 4) . . . . .                                                           | X              | A/R                |
| 4                                | B270-14       | Adhesive (or B270-8qt) . . . . .                                                                | X              | A/R                |
| 5                                | A540-10       | Cover Assembly (Incl items 1 thru 4) . . . . .                                                  | O              | 1                  |
| 6                                | MS35489-40    | Grommet . . . . .                                                                               | X              | 2                  |
| 7                                | B161-8        | Spirap . . . . .                                                                                | X              | A/R                |
| 8                                | A141-31       | Washer (Ref; no longer available, no longer required.)                                          |                |                    |
| 9                                | —             | Bolt (M8) . . . . .                                                                             | O              | 2                  |
| 10                               | —             | Washer - Conical (M8) . . . . .                                                                 | O              | 2                  |
| 11                               | A780-35       | Cable Assembly - Battery Positive (Incl item 14) . . . . .                                      | X              | 1                  |
| 12                               | B237-6        | Battery (Sealed case, 12-volt; includes items 9 and 10.<br>Concorde part no. RG25XC.) . . . . . | X              | 1                  |
| 13                               | MS3367-4-9    | Ty-Rap . . . . .                                                                                | X              | A/R                |
| 14                               | A780-64       | Wire (Ref)                                                                                      |                |                    |
| 15                               | B161-2        | Spirap . . . . .                                                                                | X              | A/R                |
| 16                               | MS27039C1-06  | Screw . . . . .                                                                                 | X              | 2                  |
| 17                               | A547-1        | Channel Mount (Ref)                                                                             |                |                    |
| 18                               | NAS1149F0332P | Washer . . . . .                                                                                | X              | 2                  |
| 19                               | MS21042L3     | Nut . . . . .                                                                                   | X              | 2                  |
| 20                               | B415-1*       | Relay (Incl items 21, 22, 24, and 25) . . . . .                                                 | X              | 1                  |
| 21                               | MS21044B5     | Nut . . . . .                                                                                   | O              | 2                  |
| 22                               | O1000424      | Washer (conical) . . . . .                                                                      | O              | 2                  |
| 23                               | MS25171-4S    | Nipple . . . . .                                                                                | X              | 2                  |
| 24                               | O1003621      | Screw . . . . .                                                                                 | O              | 2                  |
| 25                               | O1004635      | Washer . . . . .                                                                                | O              | 2                  |
| 26                               | A780-20       | Cable (to alternator shunt; C067-580 wire) . . . . .                                            | X              | 1                  |
| 27                               | C067-587      | Cable (to starter) . . . . .                                                                    | X              | 1                  |
| 28                               | B304-8        | Diode Assembly (Includes items 31 thru 33, 37, 38, and 49 as<br>an assembled unit.) . . . . .   | X              | 1                  |
| 29                               | A15A          | Diode (cover with B158-103 heat shrink) . . . . .                                               | X              | 1                  |
|                                  | B158-103      | Heat Shrink (clear) . . . . .                                                                   | X              | A/R                |

NOTES \* Ship S/N 0945 and higher. For ship S/N 0001 thru 0944, see Figure 96-41.

Continues

| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                                                                                                                                              | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|
|                                  |               | NOSE BATTERY INSTALLATION (14V) (Cont'd)                                                                                                                 |                |                    |
| 96-19-30                         | C059-141      | Wire (Ref)                                                                                                                                               |                |                    |
| 31                               | AGC-3         | Fuse (3-amp) . . . . .                                                                                                                                   | X              | 1                  |
| 32                               | MS35206-228   | Screw . . . . .                                                                                                                                          | X              | 1                  |
| 33                               | D262-1        | Fuse Block (alternate part no. 354601) . . . . .                                                                                                         | X              | 1                  |
| 34                               | C059-142      | Wire (Ref)                                                                                                                                               |                |                    |
| 35                               | MS21266-1N    | Grommet (Ref; install using item 36) . . . . .                                                                                                           | X              | A/R                |
| 36                               | B270-8qt      | Adhesive . . . . .                                                                                                                                       | X              | A/R                |
| 37                               | NAS1149FN616P | Washer . . . . .                                                                                                                                         | X              | 1                  |
| 38                               | MS21042L06    | Nut . . . . .                                                                                                                                            | X              | 1                  |
| 39                               | A540-2        | Box Bottom . . . . .                                                                                                                                     | O              | 1                  |
| 40                               | A540-12       | Battery Box Assembly (Incl items 5 and 39) . . . . .                                                                                                     | X              | 1                  |
| 41                               | MS35489-6     | Grommet . . . . .                                                                                                                                        | X              | 2                  |
| 42                               | A691-3        | Tube (install using item 36) . . . . .                                                                                                                   | X              | 1                  |
| 43                               | AN4-3A        | Bolt . . . . .                                                                                                                                           | X              | 1                  |
| 44                               | A780-2        | Cable - Battery Negative . . . . .                                                                                                                       | X              | 1                  |
| 45                               | NAS1149F0432P | Washer . . . . .                                                                                                                                         | X              | 1                  |
| 46                               | MS21042L4     | Nut . . . . .                                                                                                                                            | X              | 1                  |
| 47                               | O705T-015     | Connector - Tube . . . . .                                                                                                                               | X              | 1                  |
| 48                               | D233-1        | Drain Tube Assembly (Incl items 47 and R5022 tube) . . . . .                                                                                             | X              | 1                  |
| 49                               | B260-3        | Terminal . . . . .                                                                                                                                       | X              | 1                  |
| 50                               | B260-2        | Terminal . . . . .                                                                                                                                       | X              | 1                  |
|                                  |               | * * *                                                                                                                                                    |                |                    |
| 51                               | KI-153        | Forward Battery Relay Upgrade Kit (For 14-volt ship S/Ns 0001 thru 0944. Includes items 6, 7, 11, 13, 15, 16, 18 thru 20, 23, and 52 thru 56.) . . . . . | X              | 1                  |
| 52                               | B158-103      | Heat Shrink (1 in. length) . . . . .                                                                                                                     | X              | 1                  |
| 53                               | B161-4        | Spirap . . . . .                                                                                                                                         | X              | 1                  |
| 54                               | MS3367-5-9    | Ty-Rap . . . . .                                                                                                                                         | X              | 5                  |
| 55                               | MS3367-7-9    | Ty-Rap . . . . .                                                                                                                                         | X              | 5                  |
| 56                               | B260-2        | Terminal . . . . .                                                                                                                                       | X              | 2                  |
| NOTES                            |               |                                                                                                                                                          |                |                    |

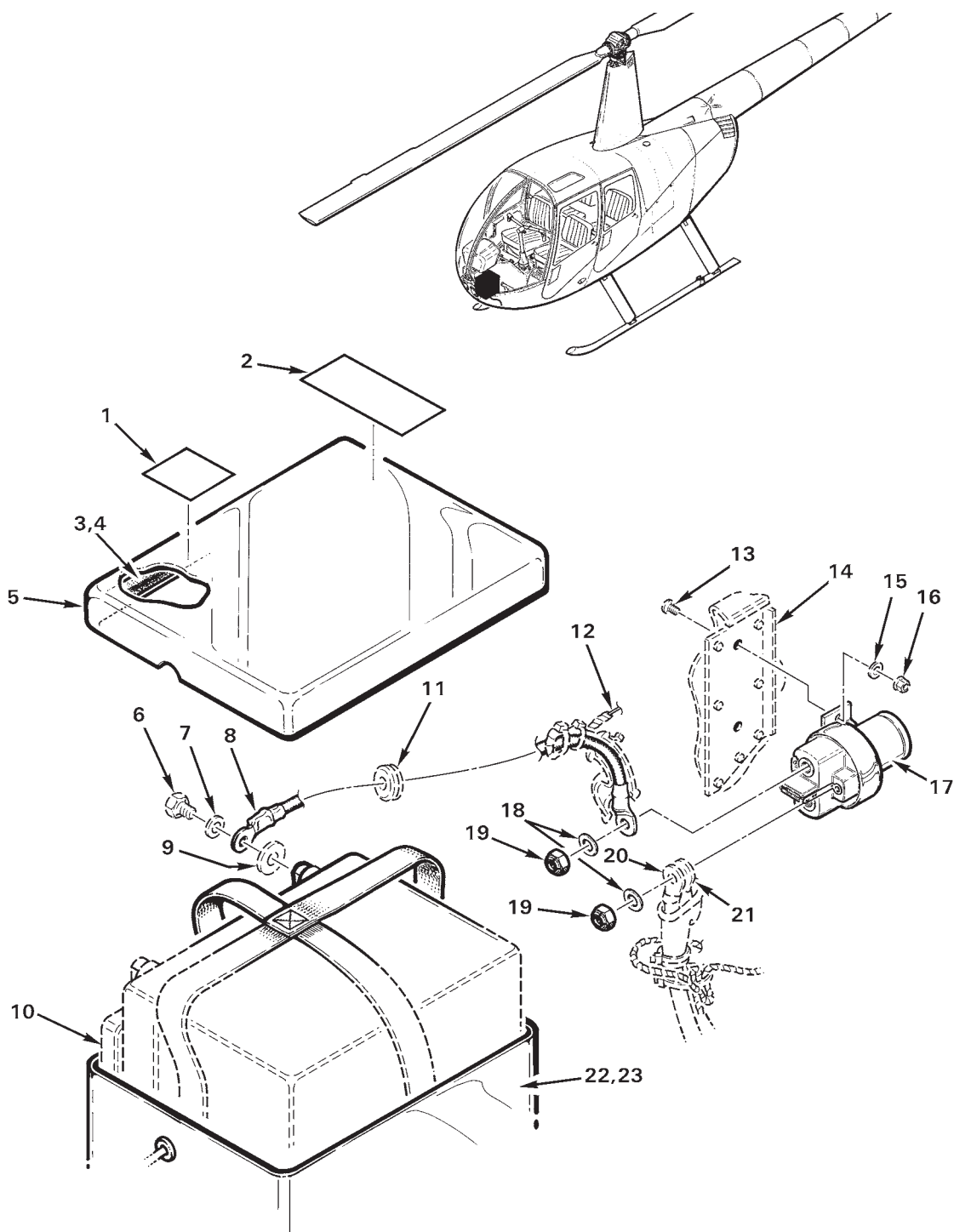
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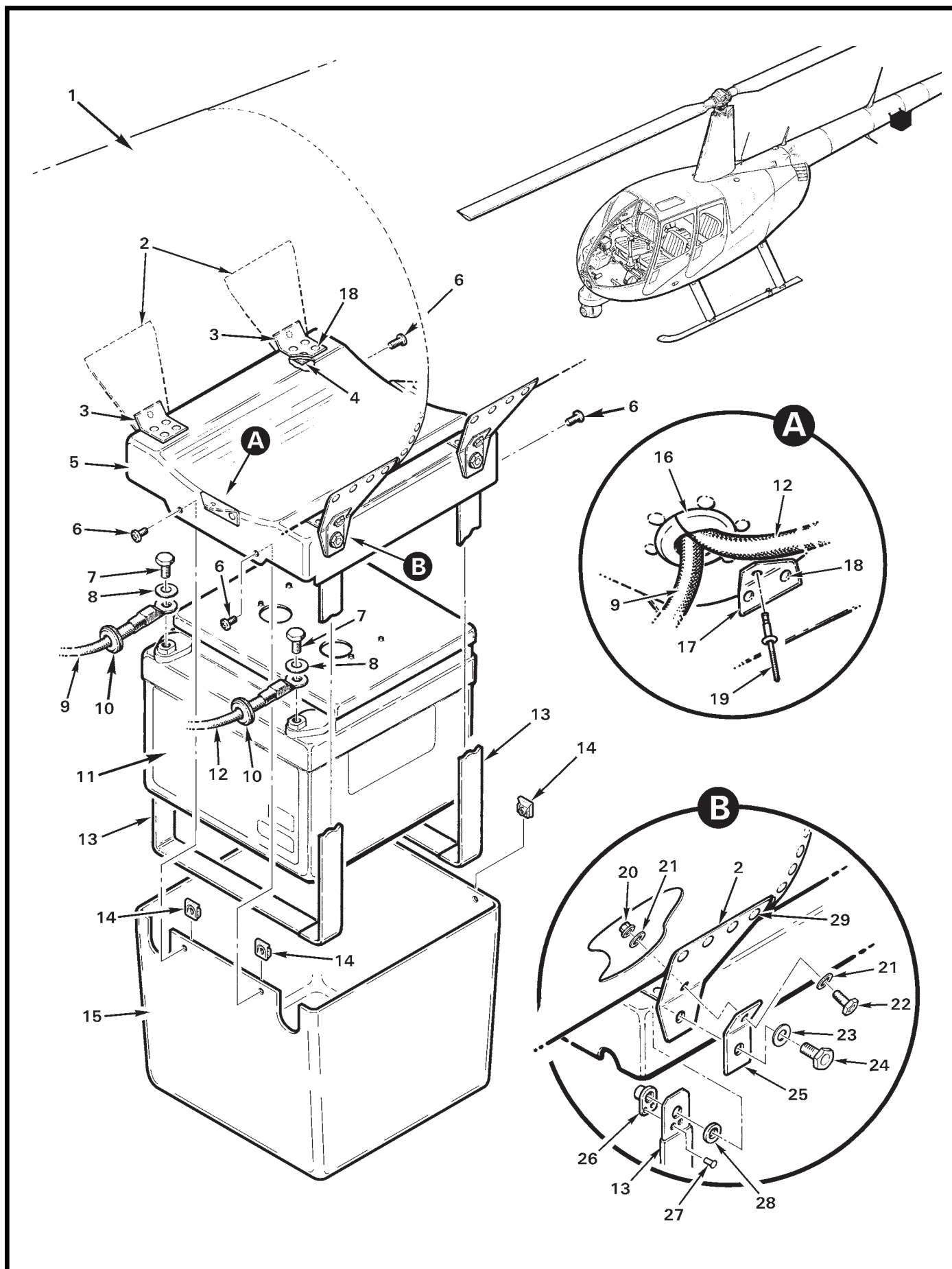
| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                                                                                       | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|---------------|---------------------------------------------------------------------------------------------------|----------------|--------------------|
|                                  |               | NOSE BATTERY INSTALLATION (28V)                                                                   |                |                    |
| 96-23-1                          | C654-45       | Decal - “-” . . . . .                                                                             | X              | 1                  |
| 2                                | MS35489-40    | Grommet . . . . .                                                                                 | X              | 2                  |
| 3                                | C654-43       | Decal - “+ 24V” . . . . .                                                                         | X              | 1                  |
| 4                                | R5556         | Seal (install using item 5) . . . . .                                                             | X              | A/R                |
| 5                                | B270-14       | Adhesive (or B270-8qt) . . . . .                                                                  | X              | A/R                |
| 6                                | D689-3        | Cover Assembly (Revision “D” and higher) . . . . .                                                | O              | 1                  |
| 7                                | —             | Bolt (M8) . . . . .                                                                               | O              | 2                  |
| 8                                | —             | Washer - Conical (M8) . . . . .                                                                   | O              | 2                  |
| 9                                | A780-22       | Cable - Battery Negative . . . . .                                                                | X              | 1                  |
| 10                               | A141-31       | Washer (Ref; no longer available, no longer required)                                             |                |                    |
| 11                               | B237-4        | Battery (Sealed case; 24-volt, includes items 7 and 8. Concord<br>par no. RG24-15.) . . . . .     | X              | 1                  |
| 12                               | A780-40       | Cable - Battery Positive (Includes item 14; use only with item<br>44.) . . . . .                  | X              | 1                  |
| 13                               | MS3367-4-9    | Ty-Rap . . . . .                                                                                  | X              | A/R                |
| 14                               | A780-64       | Wire (Ref)                                                                                        |                |                    |
| 15                               | B161-2        | Spirap (0.125 in. dia.) . . . . .                                                                 | X              | A/R                |
| 16                               | MS27039C1-06  | Screw . . . . .                                                                                   | X              | 2                  |
| 17                               | A547-1        | Channel Mount (Ref)                                                                               |                |                    |
| 18                               | NAS1149F0332P | Washer . . . . .                                                                                  | X              | 2                  |
| 19                               | MS21042L3     | Nut . . . . .                                                                                     | X              | 2                  |
| 20                               | B415-2        | Relay (Incl items 22, 23, 25, and 26) . . . . .                                                   | X              | 1                  |
| 21                               | MS25171-2S    | Nipple . . . . .                                                                                  | X              | 1                  |
| 22                               | 01003621      | Screw (M4 x 6) . . . . .                                                                          | O              | 2                  |
| 23                               | 01004635      | Washer (M4) . . . . .                                                                             | O              | 2                  |
| 24                               | B260-3        | Terminal . . . . .                                                                                | X              | 1                  |
| 25                               | MS21044B5     | Nut . . . . .                                                                                     | O              | 2                  |
| 26                               | 01000424      | Washer (conical) . . . . .                                                                        | O              | 2                  |
| 27                               | A780-23       | Cable (to shunt) . . . . .                                                                        | X              | 1                  |
| 28                               | C067-1386     | Cable (to starter) . . . . .                                                                      | X              | 1                  |
| 29                               | B304-8        | Diode Assembly (Includes items 24, 30, 33, 34, and 39 thru<br>41 as an assembled unit.) . . . . . | X              | 1                  |
| 30                               | A15A          | Diode (cover with B158-103 heat shrink) . . . . .                                                 | X              | 1                  |
|                                  | B158-103      | Heat Shrink . . . . .                                                                             | X              | A/R                |
| NOTES                            |               |                                                                                                   |                |                    |
| Continues                        |               |                                                                                                   |                |                    |

| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                                                     | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|---------------|-----------------------------------------------------------------|----------------|--------------------|
|                                  |               | NOSE BATTERY INSTALLATION (28V) (Cont'd)                        |                |                    |
| 96-23-31                         | MS25171-4S    | Nipple . . . . .                                                | X              | 1                  |
| 32                               | B260-2        | Terminal . . . . .                                              | X              | 1                  |
| 33                               | AGC-3         | Fuse (3-amp) . . . . .                                          | X              | 1                  |
| 34                               | MS35206-228   | Screw . . . . .                                                 | X              | 1                  |
| 35                               | C059-141      | Wire (Ref)                                                      |                |                    |
| 36                               | C059-142      | Wire (Ref)                                                      |                |                    |
| 37                               | MS21266-1N    | Grommet (Ref; install using item 38) . . . . .                  | X              | 1                  |
| 38                               | B270-8qt      | Adhesive . . . . .                                              | X              | 1                  |
| 39                               | D262-1        | Fuse Block (alternate part no. 354601) . . . . .                | X              | 1                  |
| 40                               | NAS1149FN616P | Washer . . . . .                                                | X              | 1                  |
| 41                               | MS21042L06    | Nut . . . . .                                                   | X              | 1                  |
| 42                               | D693-1        | Strap Assembly . . . . .                                        | X              | 1                  |
| 43                               | D689-2        | Box Bottom . . . . .                                            | O              | 1                  |
| 44                               | D689-5        | Battery Box Assembly (Incl items 1, 3 thru 6, and 43) . . . . . | X              | 1                  |
| 45                               | MS35489-6     | Grommet . . . . .                                               | X              | 2                  |
| 46                               | A691-3        | Tube - Vent (install using item 38) . . . . .                   | X              | 1                  |
| 47                               | AN4-3A        | Bolt . . . . .                                                  | X              | 1                  |
| 48                               | NAS1149F0432P | Washer . . . . .                                                | X              | 1                  |
| 49                               | MS21042L4     | Nut . . . . .                                                   | X              | 1                  |
| 50                               | 0705T-015     | Connector - Tube . . . . .                                      | X              | 1                  |
| 51                               | D233-1        | Drain Tube Assembly (Incl items 50 and R5022 tube) . . . . .    | X              | 1                  |
| NOTES                            |               |                                                                 |                |                    |

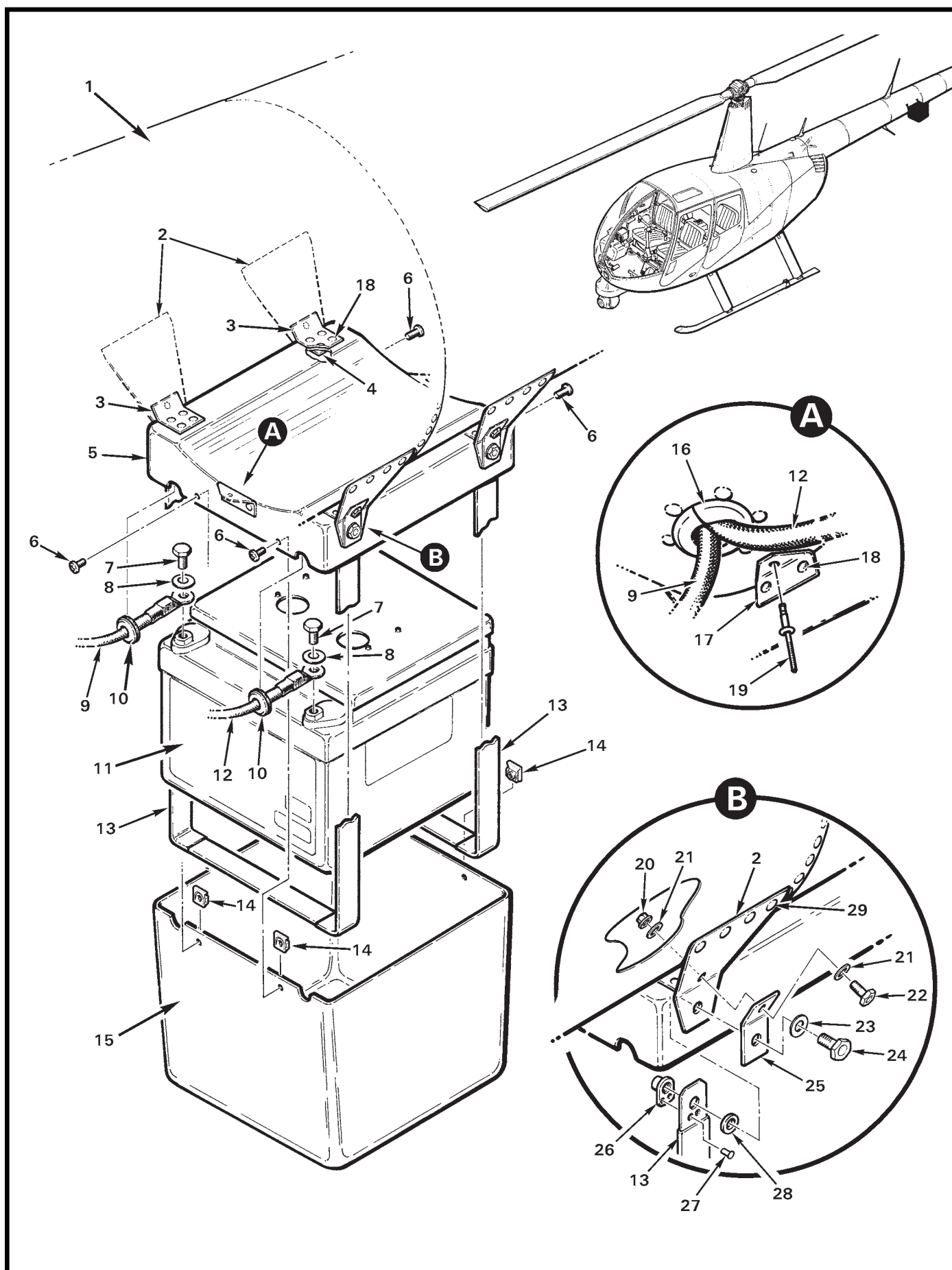
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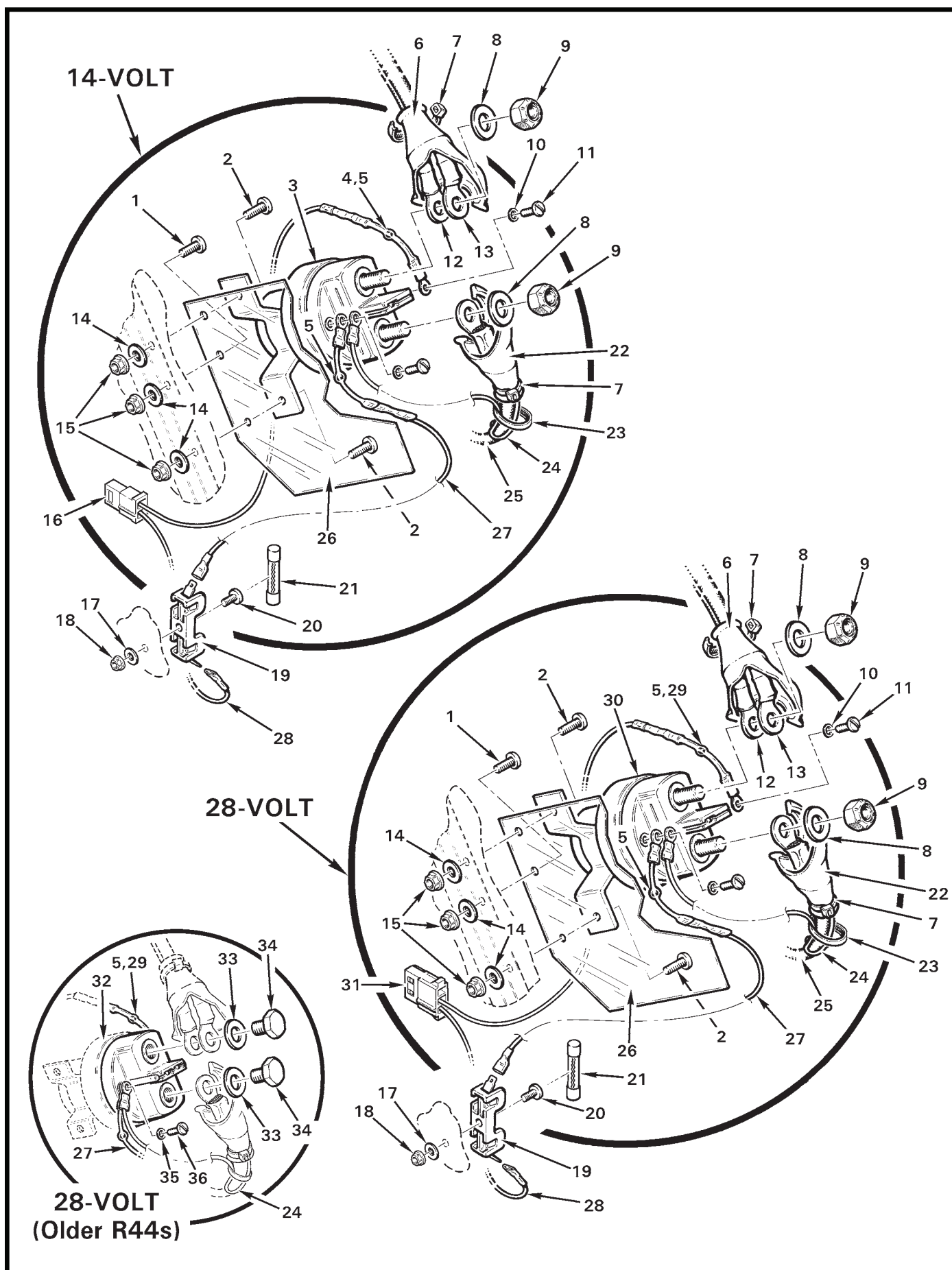
| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                                                                                                                                                                            | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|
|                                  |               | NOSE BATTERY INSTALLATION (28V)                                                                                                                                                        |                |                    |
| 96-27-1                          | C654-45       | Decal - “-” . . . . .                                                                                                                                                                  | X              | 1                  |
| 2                                | C654-43       | Decal - “+ 24V” . . . . .                                                                                                                                                              | X              | 1                  |
| 3                                | R5556         | Seal (install using item 4) . . . . .                                                                                                                                                  | X              | A/R                |
| 4                                | B270-8        | Adhesive . . . . .                                                                                                                                                                     | X              | A/R                |
| 5                                | D689-3        | Cover Assembly (Rev “C” and prior, Ref; no longer available.<br>Order items 12 and 44 from Figure 96-23 when replacing.)                                                               |                |                    |
| 6                                | —             | Bolt (M8) . . . . .                                                                                                                                                                    | O              | 2                  |
| 7                                | —             | Washer - Conical (M8) . . . . .                                                                                                                                                        | O              | 2                  |
| 8                                | A780-21       | Cable - Battery Positive (Incl item 12) . . . . .                                                                                                                                      | X              | 1                  |
| 9                                | A141-31       | Washer (Ref; no longer available, no longer required.)                                                                                                                                 |                |                    |
| 10                               | B237-4        | Battery (Sealed case; 24-volt, includes items 6 and 7. Concord<br>part no. RG24-15.) . . . . .                                                                                         | X              | 1                  |
| 11                               | MS35489-40    | Grommet (Ref)                                                                                                                                                                          |                |                    |
| 12                               | A780-64       | Wire (Ref)                                                                                                                                                                             |                |                    |
| 13                               | MS27039C1-06  | Screw . . . . .                                                                                                                                                                        | X              | 2                  |
| 14                               | A547-1        | Channel Mount (Ref)                                                                                                                                                                    |                |                    |
| 15                               | NAS1149F0332P | Washer . . . . .                                                                                                                                                                       | X              | 2                  |
| 16                               | MS21042L3     | Nut . . . . .                                                                                                                                                                          | X              | 2                  |
| 17                               | B415-2        | Relay (Ref, see Figure 96-33 and Figure 96-37.)                                                                                                                                        |                |                    |
| 18                               | O1000424      | Washer (conical) . . . . .                                                                                                                                                             | O              | 2                  |
| 19                               | MS21044B5     | Nut . . . . .                                                                                                                                                                          | O              | 2                  |
| 20                               | A780-23       | Cable (to shunt) . . . . .                                                                                                                                                             | X              | 1                  |
| 21                               | C067-1386     | Cable (to starter) . . . . .                                                                                                                                                           | X              | 1                  |
| 22                               | D689-2        | Box Bottom (Ref) . . . . .                                                                                                                                                             | O              | 1                  |
| 23                               | D689-5        | Battery Box Assembly (Ref, Revision “C” and prior, no longer<br>available. Used with items 5 and 22. Order items 5 and 22.<br>Order items 12 and 44 from Figure 96-19 when replacing.) |                |                    |
| NOTES                            |               |                                                                                                                                                                                        |                |                    |



| FIGURE<br>AND<br>INDEX<br>NUMBER      | PART NUMBER   | DESCRIPTION                                                                             | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|---------------------------------------|---------------|-----------------------------------------------------------------------------------------|----------------|--------------------|
|                                       |               | TAILCONE BATTERY INSTALLATION                                                           |                |                    |
| 96-29-1                               | C023          | Tailcone Assembly (Ref, see Figure 53-25)                                               |                |                    |
| 2                                     | D362-7        | Strap . . . . .                                                                         | X              | 4                  |
| 3                                     | D362-9        | Angle . . . . .                                                                         | X              | 4                  |
| 4                                     | D362-5        | Doubler . . . . .                                                                       | X              | 4                  |
| 5                                     | D361-6*       | Cover Assembly (Incl items 3, 4, 17, and 18) . . . . .                                  | X              | 1                  |
| 6                                     | MS27039C0806  | Screw . . . . .                                                                         | X              | 4                  |
| 7                                     | —             | Bolt (M8) . . . . .                                                                     | O              | 2                  |
| 8                                     | —             | Washer (conical, M8) . . . . .                                                          | O              | 2                  |
| 9                                     | A780-12       | Cable Assembly - Battery Negative . . . . .                                             | X              | 1                  |
| 10                                    | MS35489-41X   | Grommet . . . . .                                                                       | X              | 2                  |
| 11                                    | B237-4        | Battery (Sealed case; 24-volt, includes items 7 and 8. Concord part RG24-15.) . . . . . | X              | 1                  |
| 12                                    | A780-29       | Cable Assembly - Battery Positive . . . . .                                             | X              | 1                  |
| 13                                    | D362-10       | Strap Assembly (Incl items 26 and 27) . . . . .                                         | X              | 2                  |
| 14                                    | B162-2        | Clipnut . . . . .                                                                       | X              | 4                  |
| 15                                    | D540-5        | Box . . . . .                                                                           | X              | 1                  |
| 16                                    | MS35489-19    | Grommet . . . . .                                                                       | X              | 1                  |
| 17                                    | D362-6        | Angle . . . . .                                                                         | X              | 2                  |
| 18                                    | MS20470AD4    | Rivet . . . . .                                                                         | X              | 20                 |
| 19                                    | NAS9301B-4-02 | Rivet . . . . .                                                                         | X              | 2                  |
| 20                                    | MS21042L3     | Nut . . . . .                                                                           | X              | 4                  |
| 21                                    | NAS1149F0332P | Washer . . . . .                                                                        | X              | 8                  |
| 22                                    | NAS6603-3     | Bolt . . . . .                                                                          | X              | 4                  |
| 23                                    | NAS1149F0432P | Washer . . . . .                                                                        | X              | 4                  |
| 24                                    | NAS6604-3     | Bolt . . . . .                                                                          | X              | 4                  |
| 25                                    | D362-8        | Angle . . . . .                                                                         | X              | 4                  |
| 26                                    | MS21086L4     | Nutplate . . . . .                                                                      | X              | 4                  |
| 27                                    | NAS1097AD3    | Rivet . . . . .                                                                         | X              | 8                  |
| 28                                    | A130-47       | Spacer . . . . .                                                                        | X              | 4                  |
| 29                                    | NAS9301B-5-02 | Rivet . . . . .                                                                         | X              | 16                 |
| NOTES * D361 Revision "G" and higher. |               |                                                                                         |                |                    |



| FIGURE<br>AND<br>INDEX<br>NUMBER     | PART NUMBER   | DESCRIPTION                                                                                 | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|--------------------------------------|---------------|---------------------------------------------------------------------------------------------|----------------|--------------------|
|                                      |               | TAILCONE BATTERY INSTALLATION                                                               |                |                    |
| 96-31-1                              | C023          | Tailcone Assembly (Ref, see Figure 53-25)                                                   |                |                    |
| 2                                    | D362-7        | Strap . . . . .                                                                             | X              | 4                  |
| 3                                    | D362-9        | Angle . . . . .                                                                             | X              | 4                  |
| 4                                    | D362-5        | Doubler . . . . .                                                                           | X              | 4                  |
| 5                                    | D361-5 *      | Cover Assembly (Ref; no longer available)                                                   |                |                    |
| 6                                    | MS27039C0806  | Screw . . . . .                                                                             | X              | 4                  |
| 7                                    | —             | Bolt (M8) . . . . .                                                                         | O              | 2                  |
| 8                                    | —             | Washer (conical, M8) . . . . .                                                              | O              | 2                  |
| 9                                    | A780-12       | Cable Assembly - Battery Negative . . . . .                                                 | X              | 1                  |
| 10                                   | MS35489-41X   | Grommet . . . . .                                                                           | X              | 2                  |
| 11                                   | B237-4        | Battery (Sealed case; 24-volt, includes items 7 and 8. Concord part no. RG24-15.) . . . . . | X              | 1                  |
| 12                                   | A780-29       | Cable Assembly - Battery Positive . . . . .                                                 | X              | 1                  |
| 13                                   | D362-10       | Strap Assembly (Incl items 26 and 27) . . . . .                                             | X              | 2                  |
| 14                                   | B162-2        | Clipnut . . . . .                                                                           | X              | 4                  |
| 15                                   | D540-3        | Box (Ref; no longer available)                                                              |                |                    |
| 16                                   | MS35489-19    | Grommet . . . . .                                                                           | X              | 1                  |
| 17                                   | D362-6        | Angle . . . . .                                                                             | X              | 2                  |
| 18                                   | MS20470AD4    | Rivet . . . . .                                                                             | X              | 20                 |
| 19                                   | NAS9301B-4-02 | Rivet . . . . .                                                                             | X              | 2                  |
| 20                                   | MS21042L3     | Nut . . . . .                                                                               | X              | 4                  |
| 21                                   | NAS1149F0332P | Washer . . . . .                                                                            | X              | 8                  |
| 22                                   | NAS6603-3     | Bolt . . . . .                                                                              | X              | 4                  |
| 23                                   | NAS1149F0432P | Washer . . . . .                                                                            | X              | 4                  |
| 24                                   | NAS6604-3     | Bolt . . . . .                                                                              | X              | 4                  |
| 25                                   | D362-8        | Angle . . . . .                                                                             | X              | 4                  |
| 26                                   | MS21086L4     | Nutplate . . . . .                                                                          | X              | 4                  |
| 27                                   | NAS1097AD3    | Rivet . . . . .                                                                             | X              | 8                  |
| 28                                   | A130-47       | Spacer . . . . .                                                                            | X              | 4                  |
| 29                                   | NAS9301B-5-02 | Rivet . . . . .                                                                             | X              | 16                 |
| NOTES * D361 Revision "F" and prior. |               |                                                                                             |                |                    |



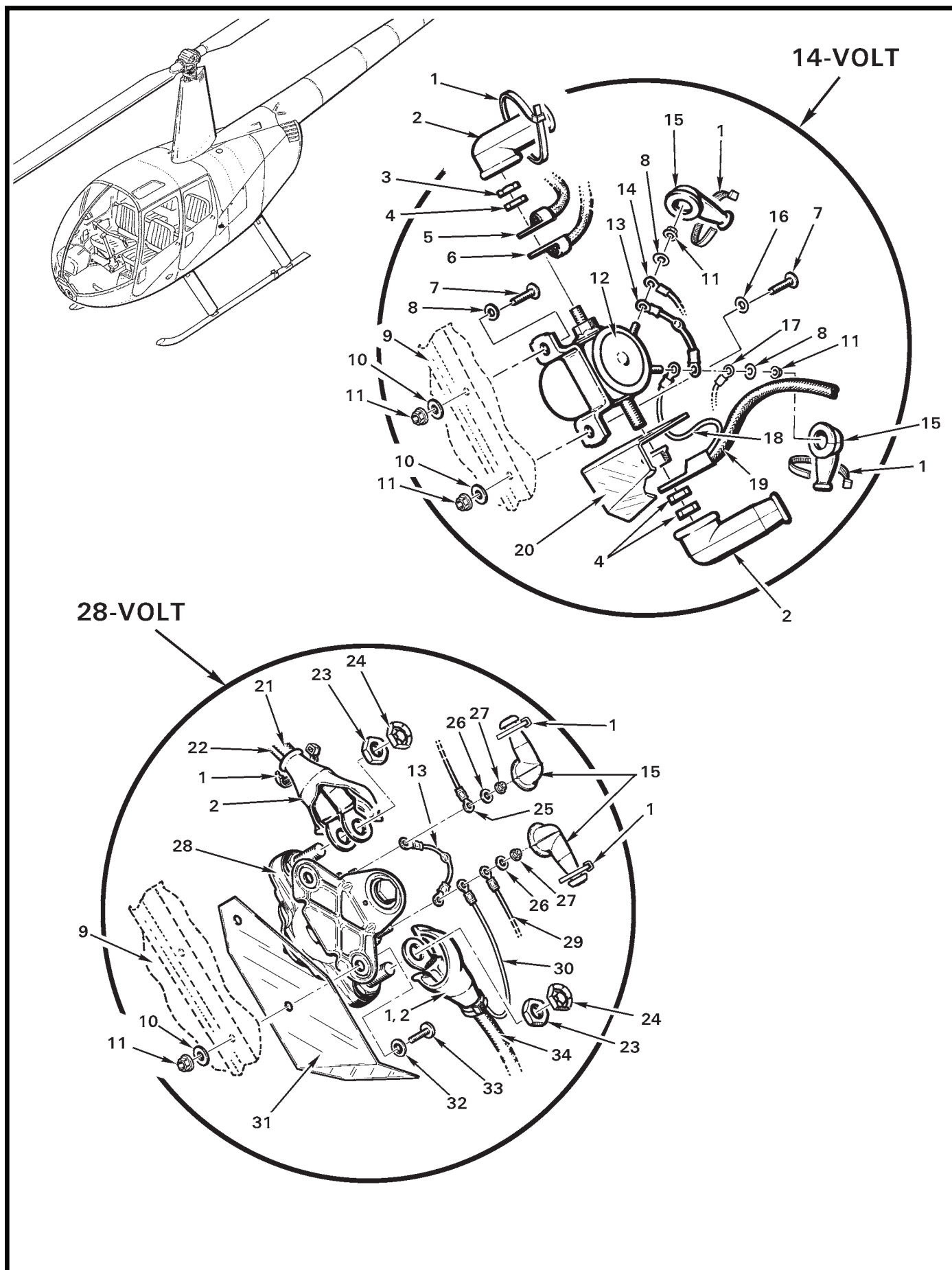
| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                                                                     | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|---------------|---------------------------------------------------------------------------------|----------------|--------------------|
|                                  |               | AFT BATTERY RELAY INSTALLATION*                                                 |                |                    |
| 96-33-1                          | MS27039C1-06  | Screw . . . . .                                                                 | X              | 1                  |
| 2                                | MS27039C1-07  | Screw . . . . .                                                                 | X              | 2                  |
| 3                                | B415-1        | Relay (14-volt; includes items 8 thru 11) . . . . .                             | X              | 1                  |
| 4                                | B304-4        | Diode Assembly (14-volt; includes items 5, 16 thru 21, 27,<br>and 28) . . . . . | X              | 1                  |
| 5                                | A15A          | Diode (cover with B158-103 heat shrink) . . . . .                               | X              | 2                  |
|                                  | B158-103      | Heat Shrink (0.187 in. dia., clear) . . . . .                                   | X              | A/R                |
| 6                                | MS25171-4S    | Nipple . . . . .                                                                | X              | 1                  |
| 7                                | MS3367-4-9    | Ty-Rap . . . . .                                                                | X              | 2                  |
| 8                                | O1000424      | Washer (conical) . . . . .                                                      | O              | 2                  |
| 9                                | MS21044B5     | Nut . . . . .                                                                   | O              | 2                  |
| 10                               | O1004635      | Washer . . . . .                                                                | O              | 2                  |
| 11                               | O1003621      | Screw . . . . .                                                                 | O              | 2                  |
| 12                               | A780-27       | Cable (wire no. 580, to alternator shunt) . . . . .                             | X              | 1                  |
| 13                               | A780-26       | Cable (wire no. 581, to starter) . . . . .                                      | X              | 1                  |
| 14                               | NAS1149F0332P | Washer . . . . .                                                                | X              | 3                  |
| 15                               | MS21042L3     | Nut . . . . .                                                                   | X              | 3                  |
| 16                               | B263-13       | Housing . . . . .                                                               | X              | 1                  |
|                                  | B263-2        | Socket . . . . .                                                                | X              | 2                  |
| 17                               | NAS1149FN616P | Washer . . . . .                                                                | X              | 1                  |
| 18                               | MS21042L06    | Nut . . . . .                                                                   | X              | 1                  |
| 19                               | D262-1        | Fuse Block (alternate part no. 354601) . . . . .                                | X              | 1                  |
| 20                               | MS35206-228   | Screw . . . . .                                                                 | X              | 1                  |
| 21                               | AGC-3         | Fuse (3-amp) . . . . .                                                          | X              | 1                  |
| 22                               | MS25171-2S    | Nipple . . . . .                                                                | X              | 1                  |
| 23                               | MS3367-4-9    | Ty-Rap . . . . .                                                                | X              | A/R                |
| 24                               | A780-64       | Wire (Ref)                                                                      |                |                    |
| 25                               | A780-25       | Cable Assembly - Battery Positive (Includes item 24) . . . . .                  | X              | 1                  |
| 26                               | C452-3        | Guard (clear plastic) . . . . .                                                 | X              | 1                  |
| 27                               | -65           | Wire (Ref)                                                                      |                |                    |
| 28                               | -66           | Wire (Ref)                                                                      |                |                    |

NOTES \* Ship S/N 0945 and higher.

Continues

| FIGURE<br>AND<br>INDEX<br>NUMBER  | PART NUMBER | DESCRIPTION                                                                      | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|-----------------------------------|-------------|----------------------------------------------------------------------------------|----------------|--------------------|
|                                   |             | AFT BATTERY RELAY INSTALLATION* (Cont'd)                                         |                |                    |
| 96-33-29                          | B304-5      | Diode Assembly (28-volt; includes items 5, 17 thru 21, 27, 28, and 31) . . . . . | X              | 1                  |
| 30                                | B415-2      | Relay (28-volt; includes items 8 thru 11) . . . . .                              | X              | 1                  |
| 31                                | B263-15     | Housing . . . . .                                                                | X              | 1                  |
|                                   | B263-2      | Socket . . . . .                                                                 | X              | 2                  |
| 32                                | 26.57.01    | Relay (Ref, 28-volt; for earlier R44s. To replace order item 30.)                |                |                    |
| 33                                | —           | Washer (M8) . . . . .                                                            | O              | 2                  |
| 34                                | —           | Bolt (M8 x 8) . . . . .                                                          | O              | 2                  |
| 35                                | —           | Washer (M4) . . . . .                                                            | O              | 2                  |
| 36                                | —           | Screw (M4 x 6) . . . . .                                                         | O              | 2                  |
| NOTES * Ship S/N 0945 and higher. |             |                                                                                  |                |                    |

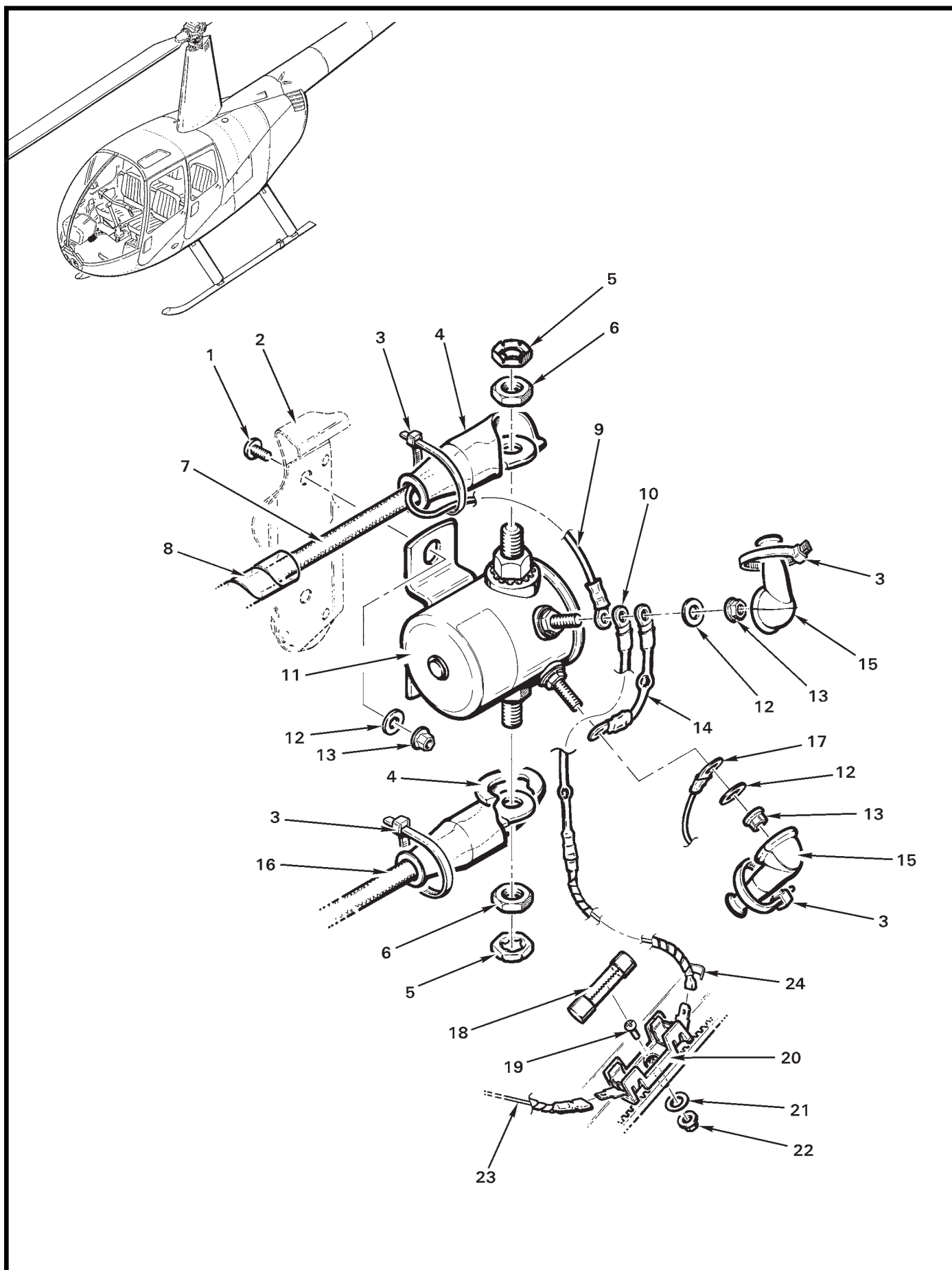
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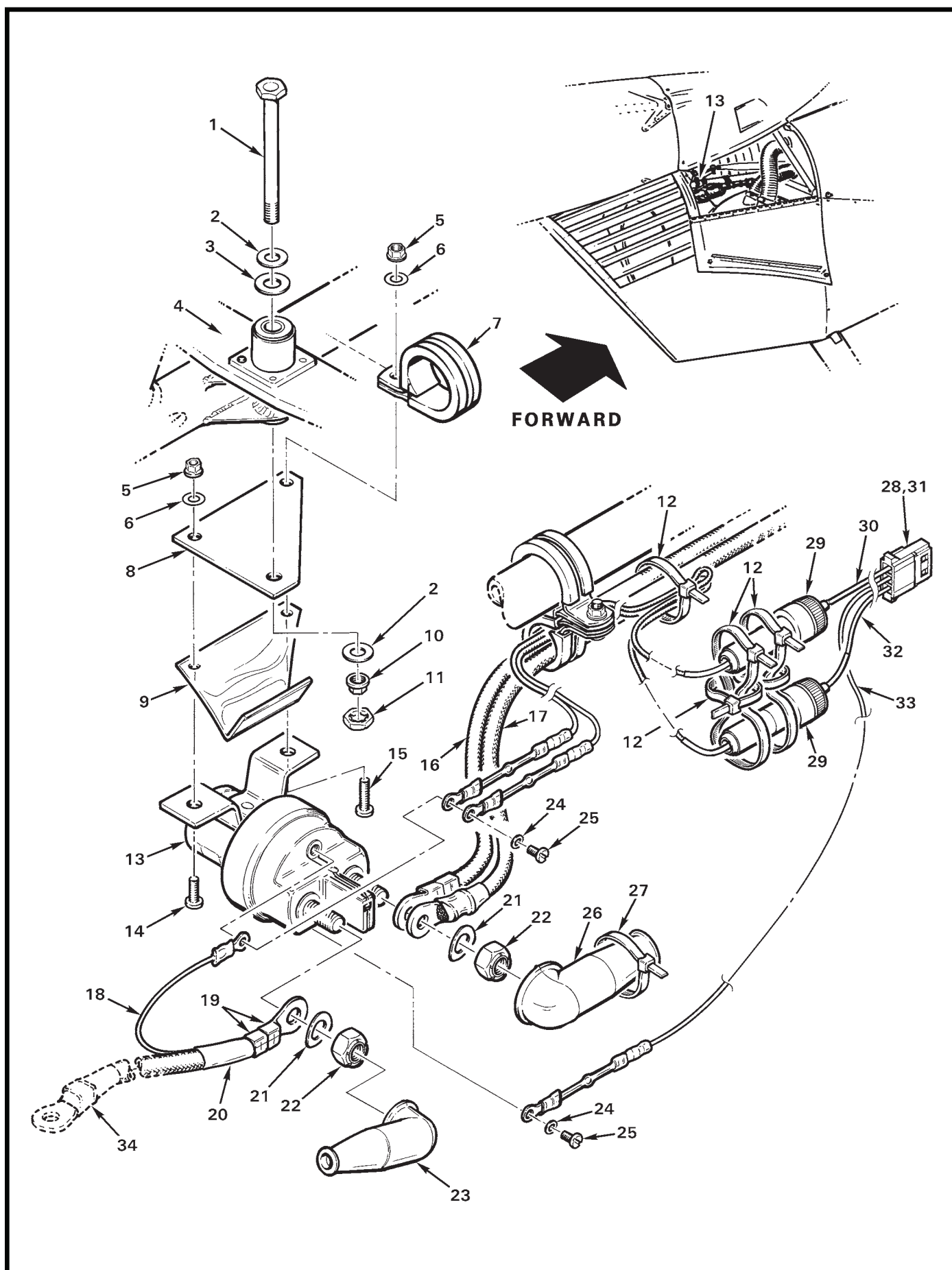
| FIGURE<br>AND<br>INDEX<br>NUMBER                                                   | PART NUMBER   | DESCRIPTION                                                    | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------|----------------|--------------------|
|                                                                                    |               | AFT BATTERY RELAY INSTALLATION                                 |                |                    |
| 96-37-1                                                                            | MS3367-4-9    | Ty-Rap . . . . .                                               | X              | A/R                |
| 2                                                                                  | MS25171-4S    | Nipple . . . . .                                               | X              | 2                  |
| 3                                                                                  | B330-16       | Palnut . . . . .                                               | X              | 1                  |
| 4                                                                                  | AN316-5R      | Nut . . . . .                                                  | X              | 3                  |
| 5                                                                                  | A780-9        | Cable (wire no. 581, to starter) . . . . .                     | X              | 1                  |
| 6                                                                                  | C067-580      | Cable (wire no. 580, to alternator shunt) . . . . .            | X              | 1                  |
| 7                                                                                  | MS27039C1-07  | Screw . . . . .                                                | X              | 2                  |
| 8                                                                                  | NAS1149F0363P | Washer . . . . .                                               | X              | 2                  |
| 9                                                                                  | C233-1        | Vertical Firewall (Ref)                                        |                |                    |
| 10                                                                                 | NAS1149F0332P | Washer . . . . .                                               | X              | 2                  |
| 11                                                                                 | MS21042L3     | Nut . . . . .                                                  | X              | 2                  |
| 12                                                                                 | 70-906*       | Relay (14-volt, Ref)                                           |                |                    |
| 13                                                                                 | B304-2        | Diode Assembly . . . . .                                       | X              | 1                  |
| 14                                                                                 | B304-4        | Diode Assembly (Wire no. 65. See also Figure 96-33.) . . . . . | X              | 1                  |
| 15                                                                                 | MS25171-1S    | Nipple . . . . .                                               | X              | 2                  |
| 16                                                                                 | A141-17       | Washer . . . . .                                               | X              | 2                  |
| 17                                                                                 | B304-4        | Diode Assembly (Ref, wire no. 66) . . . . .                    | X              | 1                  |
| 18                                                                                 | A780-64       | Wire (Ref)                                                     |                |                    |
| 19                                                                                 | A780-8        | Cable Assembly - Battery Positive (Include item 18) . . . . .  | X              | 1                  |
| 20                                                                                 | C452-1        | Guard . . . . .                                                | X              | 2                  |
|                                                                                    |               | * * *                                                          |                |                    |
| 21                                                                                 | A780-15**     | Cable Assembly (Ref)                                           |                |                    |
| 22                                                                                 | A780-16**     | Cable Assembly (Ref)                                           |                |                    |
| 23                                                                                 | AN316-6R      | Nut . . . . .                                                  | X              | 2                  |
| 24                                                                                 | B330-19       | Palnut . . . . .                                               | X              | 2                  |
| 25                                                                                 | B304-5        | Diode Assembly (Wire no. 65. See also Figure 96-33.) . . . . . | X              | 1                  |
| 26                                                                                 | NAS1149FN616P | Washer . . . . .                                               | X              | 2                  |
| 27                                                                                 | MS21042L06    | Nut . . . . .                                                  | X              | 2                  |
| 28                                                                                 | 6041H202*     | Relay (28-volt, Ref)                                           |                |                    |
| 29                                                                                 | B304-5        | Diode Assembly (Wire no. 66. See also Figure 96-33.) . . . . . | X              | 1                  |
| 30                                                                                 | A780-64       | Wire (Ref)                                                     |                |                    |
| NOTES    * Ship S/N 0001 thru 0944.<br>** No longer available. Refer to R44 SL-23. |               |                                                                |                |                    |
|                                                                                    |               |                                                                |                | Continues          |

| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER         | DESCRIPTION                                                | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|---------------------|------------------------------------------------------------|----------------|--------------------|
|                                  |                     | AFT BATTERY RELAY INSTALLATION* (Cont'd)                   |                |                    |
| 96-37-31                         | C452-2              | Guard . . . . .                                            | X              | 2                  |
| 32                               | 5745-PH-248-027-194 | Shoulder Washer . . . . .                                  | X              | 2                  |
| 33                               | MS27039C1-07        | Screw . . . . .                                            | X              | 2                  |
|                                  | B270-4              | Sealant (for bottom screw head) . . . . .                  | X              | A/R                |
| 34                               | A780-14             | Cable Assembly - Battery Positive (Incl item 30) . . . . . | X              | 1                  |
| NOTES * Ship S/N 0001 thru 0944. |                     |                                                            |                |                    |

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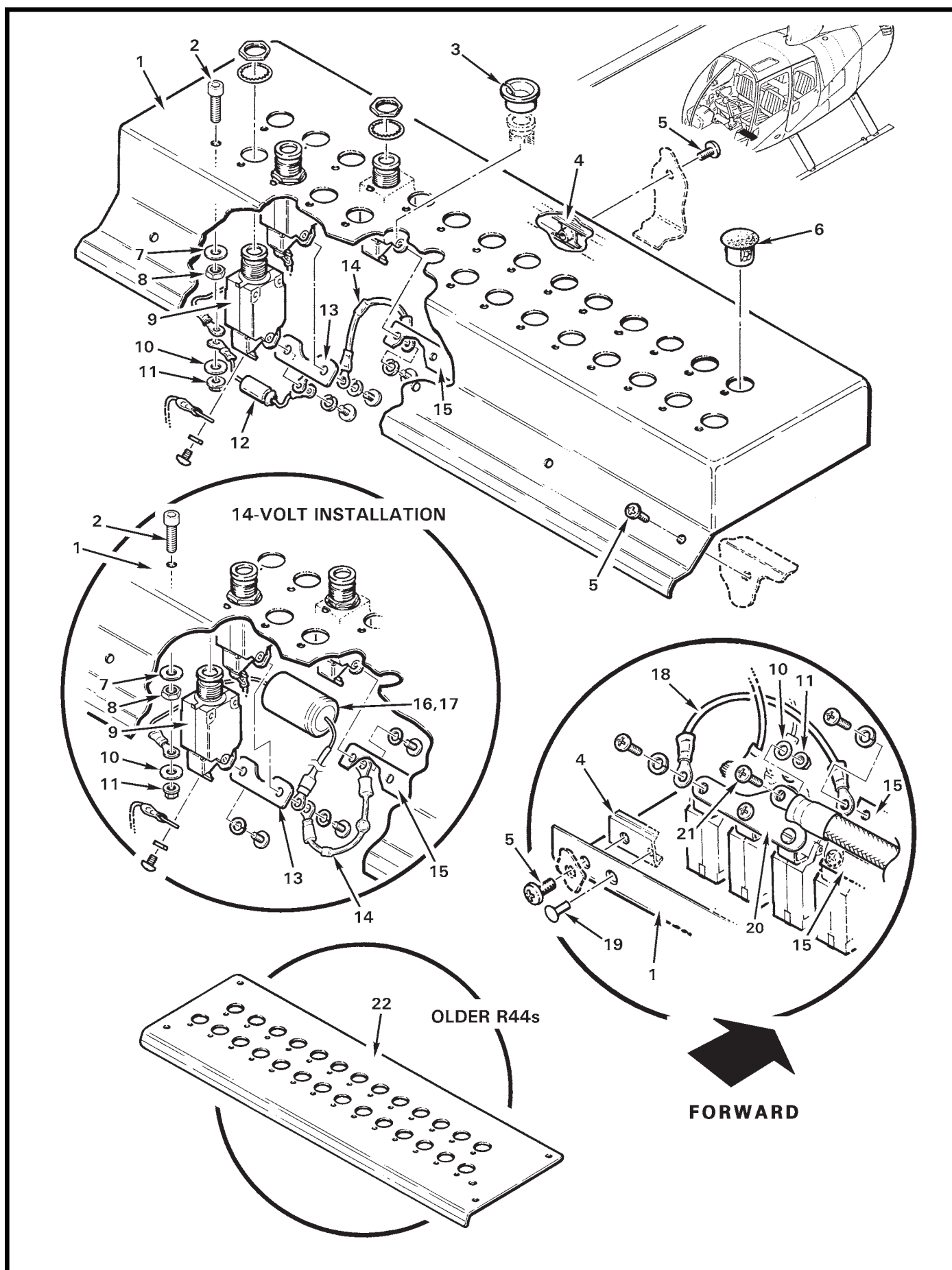
| FIGURE<br>AND<br>INDEX<br>NUMBER                                                                                              | PART NUMBER   | DESCRIPTION                                                   | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|-------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------|----------------|--------------------|
|                                                                                                                               |               | NOSE BATTERY RELAY (14V)*                                     |                |                    |
| 96-41-31                                                                                                                      | MS27039C1-06  | Screw . . . . .                                               | X              | 2                  |
| 2                                                                                                                             | C359-2        | Console Panel (Ref)                                           |                |                    |
| 3                                                                                                                             | MS3367-4-9    | Ty-Rap . . . . .                                              | X              | 4                  |
| 4                                                                                                                             | MS25171-2S    | Nipple . . . . .                                              | X              | 2                  |
| 5                                                                                                                             | B330-16       | Palnut . . . . .                                              | X              | 2                  |
| 6                                                                                                                             | AN316-5R      | Nut . . . . .                                                 | X              | 2                  |
| 7                                                                                                                             | A780-6        | Cable Assembly - Battery Positive (Incl item 9) . . . . .     | X              | 1                  |
| 8                                                                                                                             | B161-8        | Spirap . . . . .                                              | X              | A/R                |
| 9                                                                                                                             | A780-64       | Wire (Ref)                                                    |                |                    |
| 10                                                                                                                            | B304-3        | Diode Assembly (Includes A15A diode and items 18 thru 22) . . | X              | 1                  |
| 11                                                                                                                            | 70-906**      | Relay (14-volt, Ref)                                          |                |                    |
| 12                                                                                                                            | NAS1149F0363P | Washer . . . . .                                              | X              | 4                  |
| 13                                                                                                                            | MS21042L3     | Nut . . . . .                                                 | X              | 4                  |
| 14                                                                                                                            | B304-2        | Diode Assembly . . . . .                                      | X              | 1                  |
| 15                                                                                                                            | MS25171-1S    | Nipple . . . . .                                              | X              | 2                  |
| 16                                                                                                                            | C067-587      | Cable (to starter) . . . . .                                  | X              | 1                  |
| 17                                                                                                                            | C059-141      | Wire (Ref)                                                    |                |                    |
| 18                                                                                                                            | AGC-3         | Fuse (3-amp) . . . . .                                        | X              | 1                  |
| 19                                                                                                                            | MS35206-228   | Screw . . . . .                                               | X              | 1                  |
| 20                                                                                                                            | 354601        | Fuse Block . . . . .                                          | X              | 1                  |
| 21                                                                                                                            | NAS1149FN616P | Washer . . . . .                                              | X              | 1                  |
| 22                                                                                                                            | MS21042L06    | Nut . . . . .                                                 | X              | 1                  |
| 23                                                                                                                            | C059-142      | Wire (Ref)                                                    |                |                    |
| 24                                                                                                                            | B161-2        | Spirap . . . . .                                              | X              | A/R                |
| NOTES    * Ship S/N 0001 thru 0944, no longer available.<br>** Order KI-153 kit to replace relay (see Figure 96-19, item 51). |               |                                                               |                |                    |



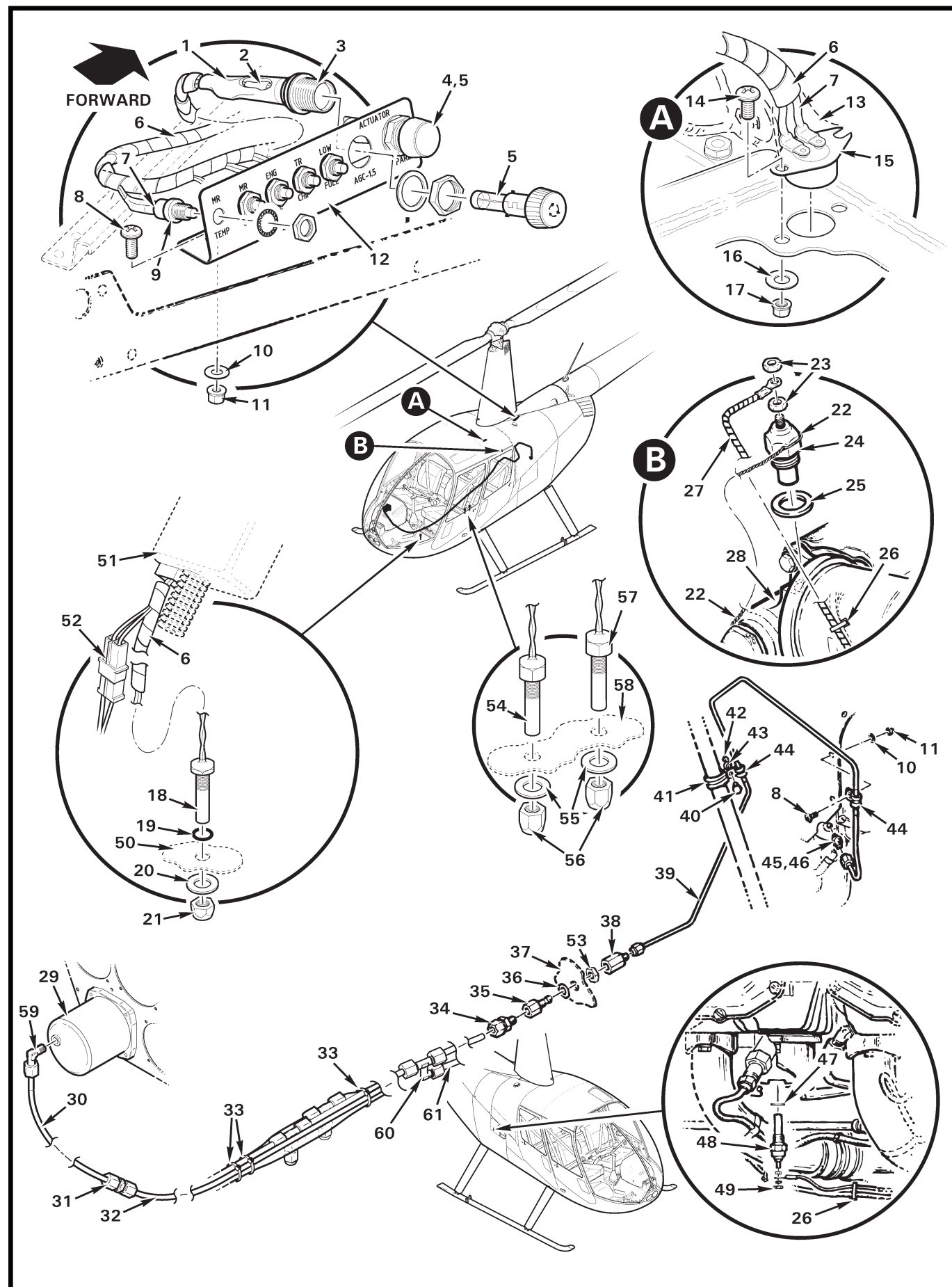
| FIGURE<br>AND<br>INDEX<br>NUMBER               | PART NUMBER    | DESCRIPTION                                                                                                     | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|------------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------|----------------|--------------------|
|                                                |                | TAILCONE BATTERY RELAY INSTALLATION                                                                             |                |                    |
| 96-43-1                                        | NAS6604-37     | Bolt . . . . .                                                                                                  | X              | 1                  |
| 2                                              | NAS1149F0432P* | Washer (Ref)                                                                                                    |                |                    |
| 3                                              | A141-3*        | Washer (Ref)                                                                                                    |                |                    |
| 4                                              | A331-4*        | Bellcrank – Tail Rotor Control (Ref)                                                                            |                |                    |
| 5                                              | MS21042L3      | Nut . . . . .                                                                                                   | X              | 2                  |
| 6                                              | NAS1149F0332P  | Washer . . . . .                                                                                                | X              | 2                  |
| 7                                              | MS21919WDG16   | Clamp . . . . .                                                                                                 | X              | 1                  |
| 8                                              | D399-9         | Tab . . . . .                                                                                                   | X              | 1                  |
| 9                                              | D399-7         | Shield . . . . .                                                                                                | X              | 1                  |
| 10                                             | D210-4*        | Nut (Ref)                                                                                                       |                |                    |
| 11                                             | B330-13*       | Palnut (Ref)                                                                                                    |                |                    |
| 12                                             | MS3367-5-9     | Ty-Rap . . . . .                                                                                                | X              | A/R                |
| 13                                             | B415-2         | Relay (Incl items 21, 22, 24, and 25) . . . . .                                                                 | X              | 1                  |
| 14                                             | MS27039C1-07   | Screw . . . . .                                                                                                 | X              | 1                  |
| 15                                             | MS27039C1-09   | Screw . . . . .                                                                                                 | X              | 1                  |
| 16                                             | A780-24        | Cable Assembly . . . . .                                                                                        | X              | 1                  |
| 17                                             | A780-28        | Cable Assembly . . . . .                                                                                        | X              | 1                  |
| 18                                             | -64            | Wire (Ref)                                                                                                      |                |                    |
| 19                                             | B260-20        | Terminal . . . . .                                                                                              | X              | 2                  |
| 20                                             | B158-8         | Heat Shrink . . . . .                                                                                           | X              | A/R                |
| 21                                             | 01000424       | Washer (conical) . . . . .                                                                                      | X              | 2                  |
| 22                                             | MS21044B5      | Nut . . . . .                                                                                                   | X              | 2                  |
| 23                                             | MS25171-2S     | Nipple . . . . .                                                                                                | X              | 1                  |
| 24                                             | 01004635       | Washer . . . . .                                                                                                | X              | 2                  |
| 25                                             | 01003621       | Screw . . . . .                                                                                                 | X              | 2                  |
| 26                                             | MS25171-4S     | Nipple . . . . .                                                                                                | X              | 1                  |
| 27                                             | MS3367-4-9     | Ty-Rap . . . . .                                                                                                | X              | 1                  |
| 28                                             | B304-7         | Diode Assembly (Includes items 29 thru 33, terminals, heat shrink, and splices as an assembled unit.) . . . . . | X              | 1                  |
| 29                                             | 15502          | Fuse Holder . . . . .                                                                                           | X              | 2                  |
|                                                | AGC-3          | Fuse (3-amp) . . . . .                                                                                          | X              | 2                  |
| 30                                             | -66            | Wire (Ref, housing slot no. 1)                                                                                  |                |                    |
| NOTES * See Figure 67-91. <div>Continues</div> |                |                                                                                                                 |                |                    |

| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                                                                                         | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|-------------|-----------------------------------------------------------------------------------------------------|----------------|--------------------|
|                                  |             | TAILCONE BATTERY RELAY INSTALLATION (Cont'd)                                                        |                |                    |
| 96-43-31                         | B263-15     | Housing . . . . .                                                                                   | X              | 1                  |
|                                  | B263-2      | Socket . . . . .                                                                                    | X              | 3                  |
| 32                               | -1226       | Wire (Ref, housing slot no. 3)                                                                      |                |                    |
| 33                               | -65         | Wire (Ref, housing slot no. 2)                                                                      |                |                    |
| 34                               | A780-29     | Cable Assembly – Battery Positive (Ref, see Figure 96-31.<br>Does not include items 18, 19, or 20.) |                |                    |
| NOTES                            |             |                                                                                                     |                |                    |

Intentionally Blank



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER    | DESCRIPTION                                                                                                                    | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|
|                                  |                | <b>CIRCUIT BREAKER PANEL</b>                                                                                                   |                |                    |
| 96-47-1                          | C490-8         | Circuit Breaker Panel Assembly (28 holes, 14/28-volt ships with hydraulic flight controls. Includes items 4 and 19.) . . . . . | X              | 1                  |
| 2                                | NAS1352-08-10P | Screw . . . . .                                                                                                                | X              | 1                  |
| 3                                | 10164-5        | Button (red; for "Clutch/Start" breaker) . . . . .                                                                             | X              | 1                  |
| 4                                | A738-11        | Gang Channel . . . . .                                                                                                         | X              | 1                  |
| 5                                | MS27039C0806   | Screw . . . . .                                                                                                                | X              | 10                 |
| 6                                | 2633           | Hole Plug . . . . .                                                                                                            | X              | A/R                |
| 7                                | NAS1149DN832H  | Washer (aluminum) . . . . .                                                                                                    | X              | 1                  |
| 8                                | AN340-8        | Nut . . . . .                                                                                                                  | X              | 1                  |
| 9                                | B297-2         | Circuit Breaker (2-amp) . . . . .                                                                                              | X              | A/R                |
|                                  | B297-5         | Circuit Breaker (5-amp) . . . . .                                                                                              | X              | A/R                |
|                                  | B297-7         | Circuit Breaker (7 1/2-amp; "COM" breaker on earlier R44s)                                                                     | X              | A/R                |
|                                  | B297-10        | Circuit Breaker (10-amp) . . . . .                                                                                             | X              | A/R                |
|                                  | B297-20        | Circuit Breaker (20-amp) . . . . .                                                                                             | X              | A/R                |
| 10                               | NAS1149FN816P  | Washer . . . . .                                                                                                               | X              | 2                  |
| 11                               | MS21042L08     | Nut . . . . .                                                                                                                  | X              | 2                  |
| 12                               | B304-1         | Capacitor Assembly (28-volt, IO-540 ships) . . . . .                                                                           | X              | 1                  |
| 13                               | A448-3         | Bus Bar (2 breakers) . . . . .                                                                                                 | X              | 1                  |
| 14                               | A045-2         | Diode Assembly . . . . .                                                                                                       | X              | 1                  |
| 15                               | A448-1         | Bus Bar (6 breakers) . . . . .                                                                                                 | X              | A/R                |
|                                  | A448-4         | Bus Bar (3 breakers) . . . . .                                                                                                 | X              | A/R                |
|                                  | A448-9         | Bus Bar (9 breakers) . . . . .                                                                                                 | X              | A/R                |
|                                  | A448-10        | Bus Bar (4 breakers) . . . . .                                                                                                 | X              | A/R                |
|                                  | A448-14        | Bus Bar (8 breakers) . . . . .                                                                                                 | X              | A/R                |
| 16                               | B304-11        | Capacitor Assembly (14-volt, O-540 ships. Install using item 17.) . . . . .                                                    | X              | 1                  |
| 17                               | B270-13        | Sealant (clear) . . . . .                                                                                                      | X              | A/R                |
| 18                               | C059-102       | Jumper Wire (Ref)                                                                                                              |                |                    |
| 19                               | MS20426AD3     | Rivet . . . . .                                                                                                                | X              | 3                  |
| 20                               | A448-16        | Bus Bar (with power tab) . . . . .                                                                                             | X              | 1                  |
| 21                               | MS27039C0805   | Screw . . . . .                                                                                                                | X              | 1                  |
| 22                               | C490-1         | Circuit Breaker Panel (27 holes, ship S/N 0001 thru 0270) . . .                                                                | X              | 1                  |
|                                  | C490-7         | Circuit Breaker Panel Assembly (28 holes, 14-volt ships with manual flight controls. Includes items 4 and 19; not shown.)      | X              | 1                  |
|                                  | C490-9         | Circuit Breaker Panel Assembly (28 holes, 28-volt ships with manual flight controls. Includes items 4 and 19; not shown.)      | X              | 1                  |
| NOTES                            |                |                                                                                                                                |                |                    |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                                                                                                                                                                | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|
|                                  |               | TEST SWITCHES AND GAGE PROBES*                                                                                                                                             |                |                    |
| 96-49-1                          | B158-8        | Heat Shrink (around fuse holder) . . . . .                                                                                                                                 | X              | A/R                |
| 2                                | B158-3        | Heat Shrink (around wires) . . . . .                                                                                                                                       | X              | A/R                |
| 3                                | D262-11       | Fuse Holder (clutch actuator; includes washer and nut) . . . . .                                                                                                           | X              | 1                  |
| 4                                | D262-11       | Fuse Holder (spare; includes washer and nut) . . . . .                                                                                                                     | X              | 1                  |
| 5                                | D275-203      | Fuse (3-amp, 14-volt ships; AGC-3-R) . . . . .                                                                                                                             | X              | 2                  |
|                                  | AGC-1-1/2-R   | Fuse (1.5-amp, 28-volt ships) . . . . .                                                                                                                                    | X              | 2                  |
| 6                                | B161-4        | Spirap . . . . .                                                                                                                                                           | X              | A/R                |
| 7                                | B158-2        | Heat Shrink . . . . .                                                                                                                                                      | X              | A/R                |
| 8                                | MS27039C0806  | Screw . . . . .                                                                                                                                                            | X              | 3                  |
| 9                                | B227-1        | Switch – Test (includes washer and nut) . . . . .                                                                                                                          | X              | 5                  |
| 10                               | NAS1149FN816P | Washer . . . . .                                                                                                                                                           | X              | 3                  |
| 11                               | MS21042L08    | Nut . . . . .                                                                                                                                                              | X              | 3                  |
| 12                               | A938-3        | Mount . . . . .                                                                                                                                                            | X              | 1                  |
| 13                               | B270-1        | Sealant . . . . .                                                                                                                                                          | X              | A/R                |
| 14                               | MS51957-27    | Screw . . . . .                                                                                                                                                            | X              | 2                  |
| 15                               | A688-2        | Switch – Fire Detection (includes terminals) . . . . .                                                                                                                     | X              | 1                  |
| 16                               | NAS1149FN616P | Washer . . . . .                                                                                                                                                           | X              | 2                  |
| 17                               | MS21042L06    | Nut . . . . .                                                                                                                                                              | X              | 2                  |
| 18                               | B341-4        | Probe Assembly – Outside Air Temperature (includes items 19 thru 21 and item 52) . . . . .                                                                                 | X              | 1                  |
| 19                               | —             | O-Ring . . . . .                                                                                                                                                           | O              | 1                  |
| 20                               | —             | Washer . . . . .                                                                                                                                                           | O              | 1                  |
| 21                               | —             | Nut . . . . .                                                                                                                                                              | O              | 1                  |
| 22                               | MS20995C32    | 0.032 in. dia. Safety Wire . . . . .                                                                                                                                       | O              | A/R                |
| 23                               | —             | Nut . . . . .                                                                                                                                                              | O              | 2                  |
| 24                               | A760-1        | Oil Temperature Sender (Single; includes items 23 and 25. Used with B144-3 instrument cluster on 14-volt ships, and B144-4 instrument cluster on 28-volt ships.) . . . . . | X              | 1                  |
|                                  | A760-3        | Oil Temperature Sender (Dual; includes items 23 and 25. Used with B144-5 10- to 32-volt instrument cluster and D270-1 governor controller.) . . . . .                      | X              | 1                  |
| 25                               | 15-724**      | Gasket . . . . .                                                                                                                                                           | X              | 1                  |
| 26                               | MS3367-4-9    | Ty-Rap . . . . .                                                                                                                                                           | X              | A/R                |

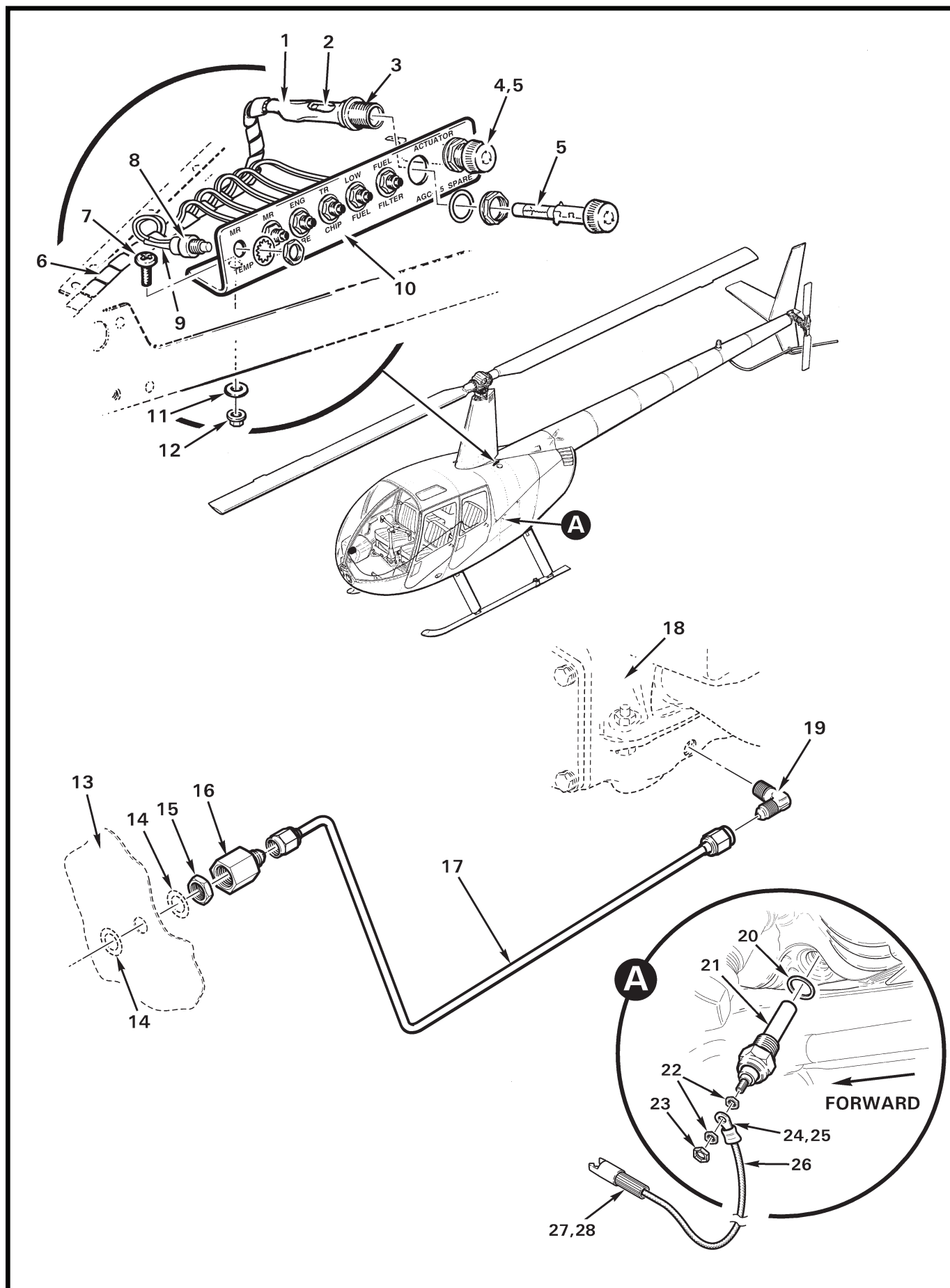
NOTES \* Ship S/N 0001 thru 9999.

\*\* Rochester Gauges part no.

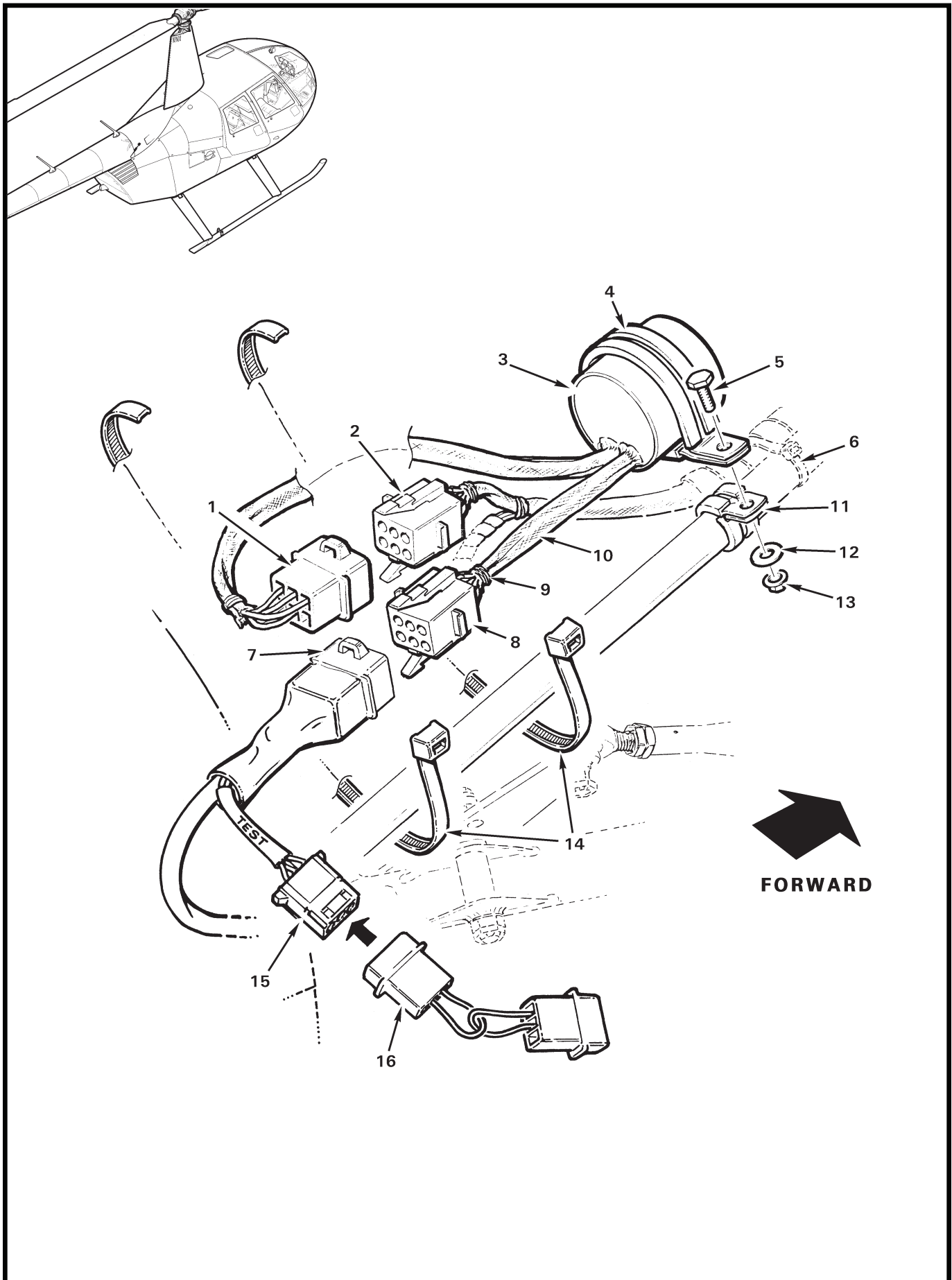
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| FIGURE<br>AND<br>INDEX<br>NUMBER                                           | PART NUMBER   | DESCRIPTION                                                                                                                                                                                            | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------------------------------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|
|                                                                            |               | TEST SWITCHES AND GAGE PROBES* (Cont'd)                                                                                                                                                                |                |                    |
| 96-49-27                                                                   | B161-2        | Spirap . . . . .                                                                                                                                                                                       | X              | A/R                |
| 28                                                                         | D723          | Oil Filter Adapter (Ref)                                                                                                                                                                               |                |                    |
| 29                                                                         | A600-4        | Manifold Pressure Gage (Ref; R44 I O-540 engine, see Figure 95-1)                                                                                                                                      |                |                    |
|                                                                            | A600-6        | Manifold Pressure Gage (Ref; R44 II IO-540 engine, see Figure 95-1)                                                                                                                                    |                |                    |
|                                                                            | A600-7        | Manifold Pressure Gage (Ref; R44 Cadet O-540 engine, see Figure 95-1)                                                                                                                                  |                |                    |
| 30                                                                         | A729-52       | Tube . . . . .                                                                                                                                                                                         | X              | 1                  |
| 31                                                                         | 15-4-N-0      | Union . . . . .                                                                                                                                                                                        | X              | 1                  |
| 32                                                                         | A729-15       | Tube . . . . .                                                                                                                                                                                         | X              | 1                  |
| 33                                                                         | MS3367-5-9    | Ty-Rap (or MS3367-5-9) . . . . .                                                                                                                                                                       | X              | A/R                |
| 34                                                                         | 10-4-2-N-0    | Fitting (install using item 46) . . . . .                                                                                                                                                              | X              | 1                  |
| 35                                                                         | A457-14       | Bulkhead Adapter (includes item 53; or 0253-2-4) . . . . .                                                                                                                                             | X              | 1                  |
| 36                                                                         | NAS1149F0732P | Washer . . . . .                                                                                                                                                                                       | X              | 2                  |
| 37                                                                         | C233-1        | Firewall (Ref)                                                                                                                                                                                         |                |                    |
| 38                                                                         | AN894D4-3     | Bushing . . . . .                                                                                                                                                                                      | X              | 1                  |
| 39                                                                         | C740-1        | Manifold Pressure Line . . . . .                                                                                                                                                                       | X              | 1                  |
| 40                                                                         | AN3-3A        | Bolt . . . . .                                                                                                                                                                                         | X              | 1                  |
| 41                                                                         | MS21919WDG14  | Clamp . . . . .                                                                                                                                                                                        | X              | 1                  |
| 42                                                                         | MS21042L3     | Nut . . . . .                                                                                                                                                                                          | X              | 1                  |
| 43                                                                         | NAS1149F0332P | Washer . . . . .                                                                                                                                                                                       | X              | 1                  |
| 44                                                                         | MS21919WDG3   | Clamp . . . . .                                                                                                                                                                                        | X              | 2                  |
| 45                                                                         | AN816-3D      | Nipple (install using item 46) . . . . .                                                                                                                                                               | X              | 1                  |
| 46                                                                         | B270-6        | Sealant (for pipe threads) . . . . .                                                                                                                                                                   | X              | A/R                |
| 47                                                                         | —             | Gasket . . . . .                                                                                                                                                                                       | O              | 1                  |
| 48                                                                         | A760-2        | Sender – Cylinder Head Temperature (Located at no. 2 cylinder, or no. 5 w/AC installed**; includes item 47, and nuts. For use with B144-5 [10- to 32-volt] instrument cluster.) . . . .                | X              | 1                  |
|                                                                            | 3080-38       | Sender – Cylinder Head Temperature (Located at no. 2 cylinder, or no. 5 w/AC installed**; includes item 47, and nuts. For use with B144-3 [14-volt] or B144-1 [28-volt] instrument cluster.) . . . . . | X              | 1                  |
| NOTES      * Ship S/N 0001 thru 9999.<br>** Ship S/N 30001 and subsequent. |               |                                                                                                                                                                                                        |                |                    |
|                                                                            |               |                                                                                                                                                                                                        |                | Continues          |

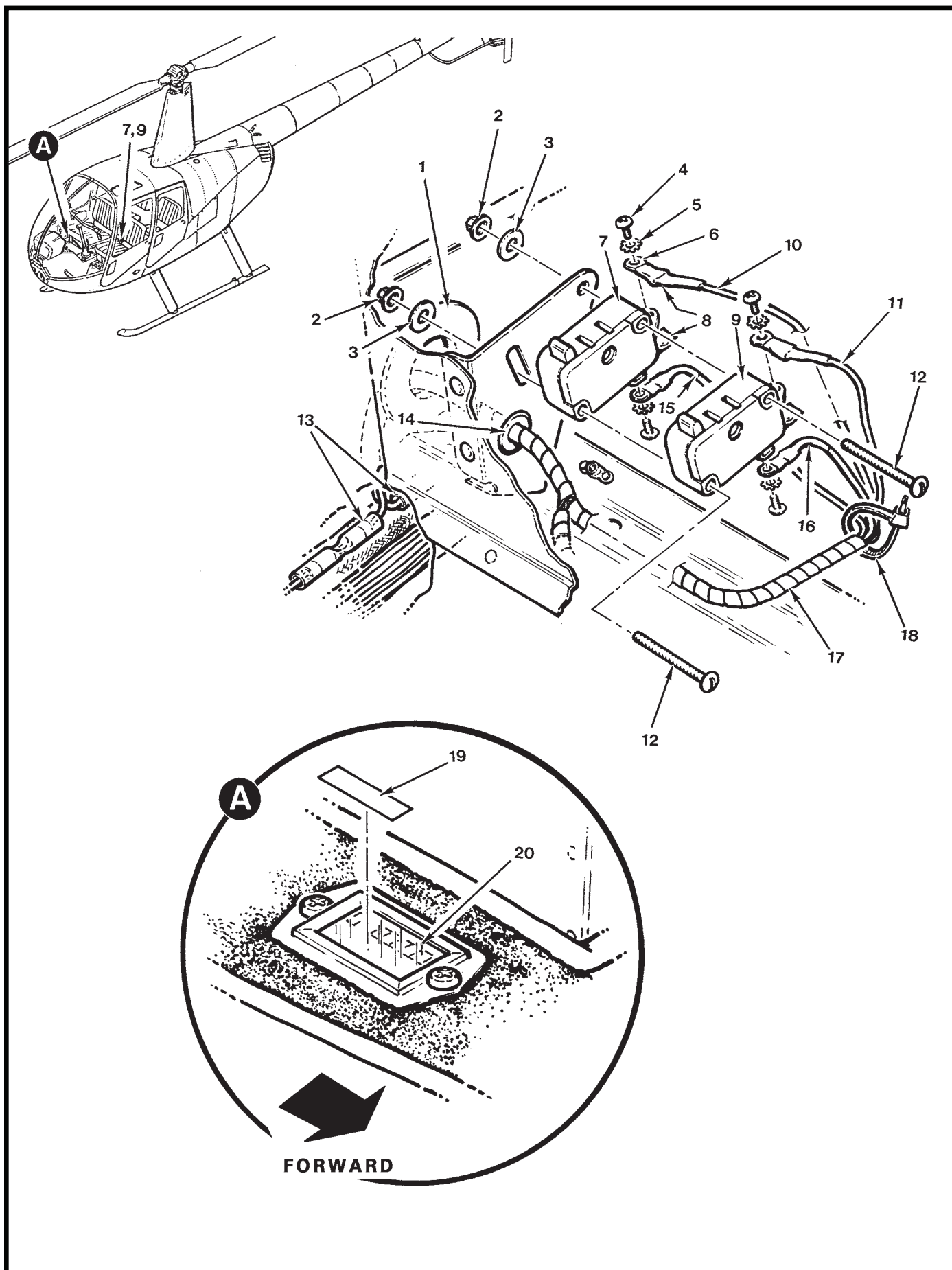
| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                                                                    | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|-------------|--------------------------------------------------------------------------------|----------------|--------------------|
|                                  |             | TEST SWITCHES AND GAGE PROBES* (Cont'd)                                        |                |                    |
| 96-49-49                         | B330-2      | Palnut . . . . .                                                               | X              | 1                  |
| 50                               | C272-1      | Chin (Ref)                                                                     |                |                    |
| 51                               | B341-1      | Gauge – Outside Air Temperature (Ref)                                          |                |                    |
| 52                               | B263-12     | Housing . . . . .                                                              | X              | 1                  |
| 50                               | C272-1      | Chin (Ref)                                                                     |                |                    |
| 51                               | B341-4      | Gage – Outside Air Temperature (Ref)                                           |                |                    |
| 52                               | B263-12     | Housing . . . . .                                                              | X              | 1                  |
|                                  | B263-1      | Pin . . . . .                                                                  | X              | 2                  |
| 53                               | —           | Nut . . . . .                                                                  | O              | 1                  |
| 54                               | A760-4      | Sender – Outside Air Temperature (Incl items 55 thru 57) . . .                 | X              | 1                  |
| 55                               | —           | Washer (teflon coated) . . . . .                                               | O              | 1                  |
| 56                               | —           | Nut . . . . .                                                                  | O              | 1                  |
| 57                               | GTP59*      | Sender – Outside Air Temperature (Incl items 55 and 56) . . . .                | X              | 1                  |
| 58                               | C392        | Belly Panel (Ref)                                                              |                |                    |
| 59                               | 40-4-2-N-O  | Elbow . . . . .                                                                | X              | 1                  |
| 60                               | 60-4-2-N-O  | Tee . . . . .                                                                  | X              | 1                  |
|                                  | 45-4-2-N-O  | Elbow . . . . .                                                                | X              | 1                  |
| 61                               | A729-24     | Tube (to D270-1 governor controller/data recorder; see Figure 96-63) . . . . . | X              | 1                  |
| NOTES      * Garmin part number. |             |                                                                                |                |                    |



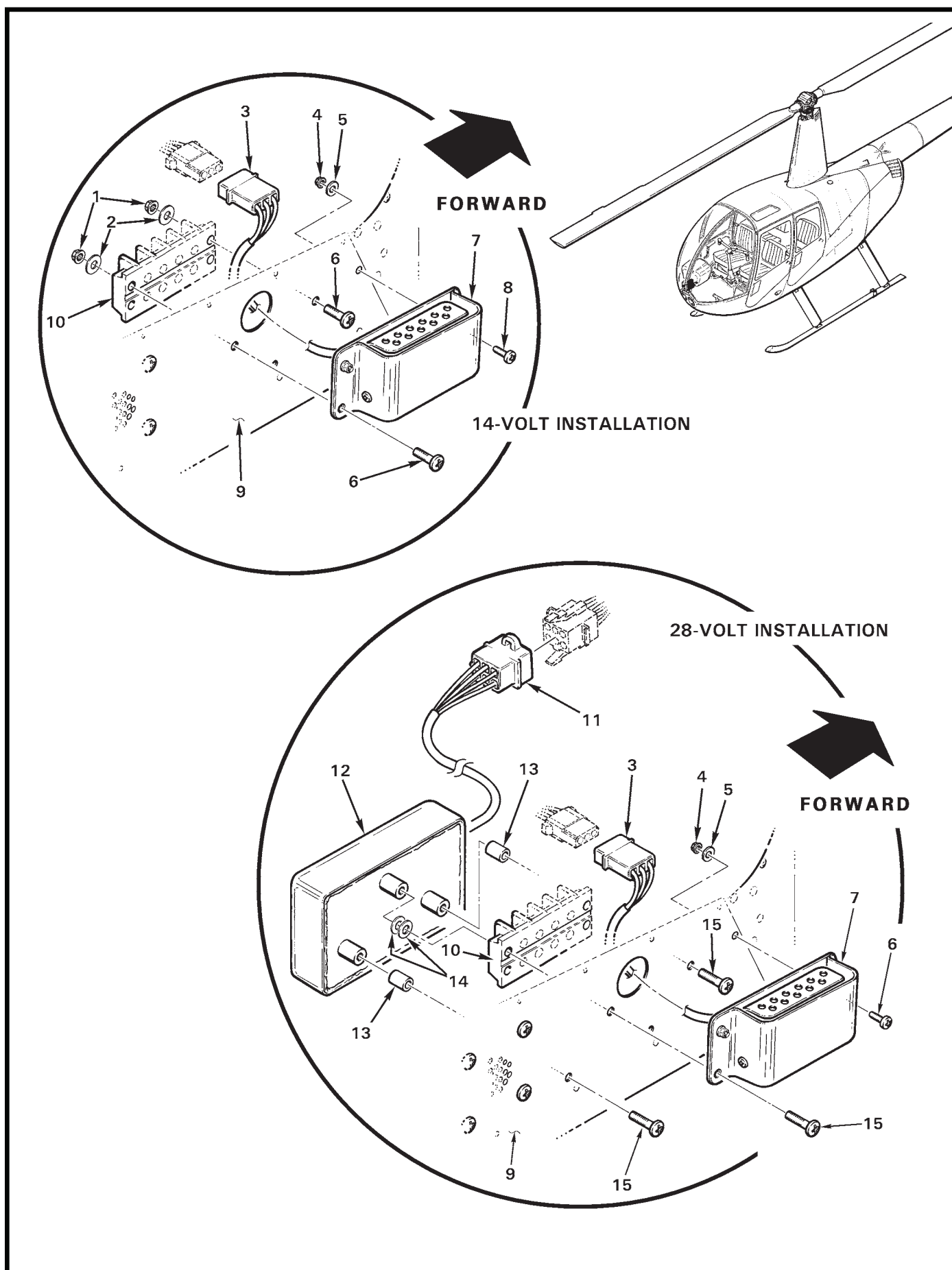
| FIGURE<br>AND<br>INDEX<br>NUMBER                                         | PART NUMBER   | DESCRIPTION                                                                                                                                                               | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|--------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|
|                                                                          |               | TEST SWITCHES AND GAGE PROBES*                                                                                                                                            |                |                    |
| 96-53-1                                                                  | B158-6        | Heat Shrink (around fuse holder) . . . . .                                                                                                                                | X              | A/R                |
| 2                                                                        | B158-3        | Heat Shrink (around wires) . . . . .                                                                                                                                      | X              | A/R                |
| 3                                                                        | D262-11       | Fuse Holder (clutch actuator) . . . . .                                                                                                                                   | X              | 1                  |
| 4                                                                        | D262-11       | Fuse Holder (spare) . . . . .                                                                                                                                             | X              | 1                  |
| 5                                                                        | AGC-1.5       | Fuse (1.5-amp) . . . . .                                                                                                                                                  | X              | 2                  |
| 6                                                                        | B161-4        | Spirap . . . . .                                                                                                                                                          | X              | A/R                |
| 7                                                                        | MS27039C0806  | Screw . . . . .                                                                                                                                                           | X              | 2                  |
| 8                                                                        | B227-1        | Switch – Test (includes washer and nut) . . . . .                                                                                                                         | X              | 6                  |
| 9                                                                        | B158-2        | Heat Shrink . . . . .                                                                                                                                                     | X              | A/R                |
| 10                                                                       | A938-5        | Mount . . . . .                                                                                                                                                           | X              | 1                  |
| 11                                                                       | NAS1149FN816P | Washer . . . . .                                                                                                                                                          | X              | 3                  |
| 12                                                                       | MS21042L08    | Nut . . . . .                                                                                                                                                             | X              | 3                  |
| 13                                                                       | —             | Firewall – Vertical (Ref)                                                                                                                                                 |                |                    |
| 14                                                                       | NAS1149F0732P | Washer** (Ref)                                                                                                                                                            |                |                    |
| 15                                                                       | —             | Nut** (Ref)                                                                                                                                                               |                |                    |
| 16                                                                       | AN894D4-3     | Bushing** (Ref)                                                                                                                                                           |                |                    |
| 17                                                                       | D740-1        | Line Assembly – Manifold Pressure . . . . .                                                                                                                               | X              | 1                  |
| 18                                                                       | —             | Engine (Ref)                                                                                                                                                              | X              | 1                  |
| 19                                                                       | MS20822-3D    | Elbow . . . . .                                                                                                                                                           | X              | 1                  |
| 20                                                                       | —             | Gasket (supplied with item 21) . . . . .                                                                                                                                  | O              | 1                  |
| 21                                                                       | A760-2        | Sender – Cylinder Head Temperature (Located at no. 5 cylinder; includes items 20 and 22. For use with B144-5 (10- to 32-volt) instrument cluster.) . . . . .              | X              | 1                  |
|                                                                          | 3080-38       | Sender – Cylinder Head Temperature (Located at no. 5 cylinder, includes items 20 and 22. For use with B144-3 (14-volt) or B144-1 (28-volt) instrument cluster.) . . . . . | X              | 1                  |
| 22                                                                       | —             | Nut . . . . .                                                                                                                                                             | O              | A/R                |
| 23                                                                       | B330-2        | Palnut . . . . .                                                                                                                                                          | X              | 1                  |
| 24                                                                       | C049-7        | Harness Assy. (Incl items 25 thru 28. Assembled as shown.)                                                                                                                | X              | 1                  |
| 25                                                                       | B260-10       | Terminal . . . . .                                                                                                                                                        | X              | 1                  |
| 26                                                                       | —             | Wire (Ref)                                                                                                                                                                |                |                    |
| 27                                                                       | B263-10       | Housing . . . . .                                                                                                                                                         | X              | 1                  |
| 28                                                                       | B263-1        | Pin . . . . .                                                                                                                                                             | X              | 1                  |
| NOTES      * Ship S/N 10001 and subsequent.<br>** See also Figure 95-51. |               |                                                                                                                                                                           |                |                    |



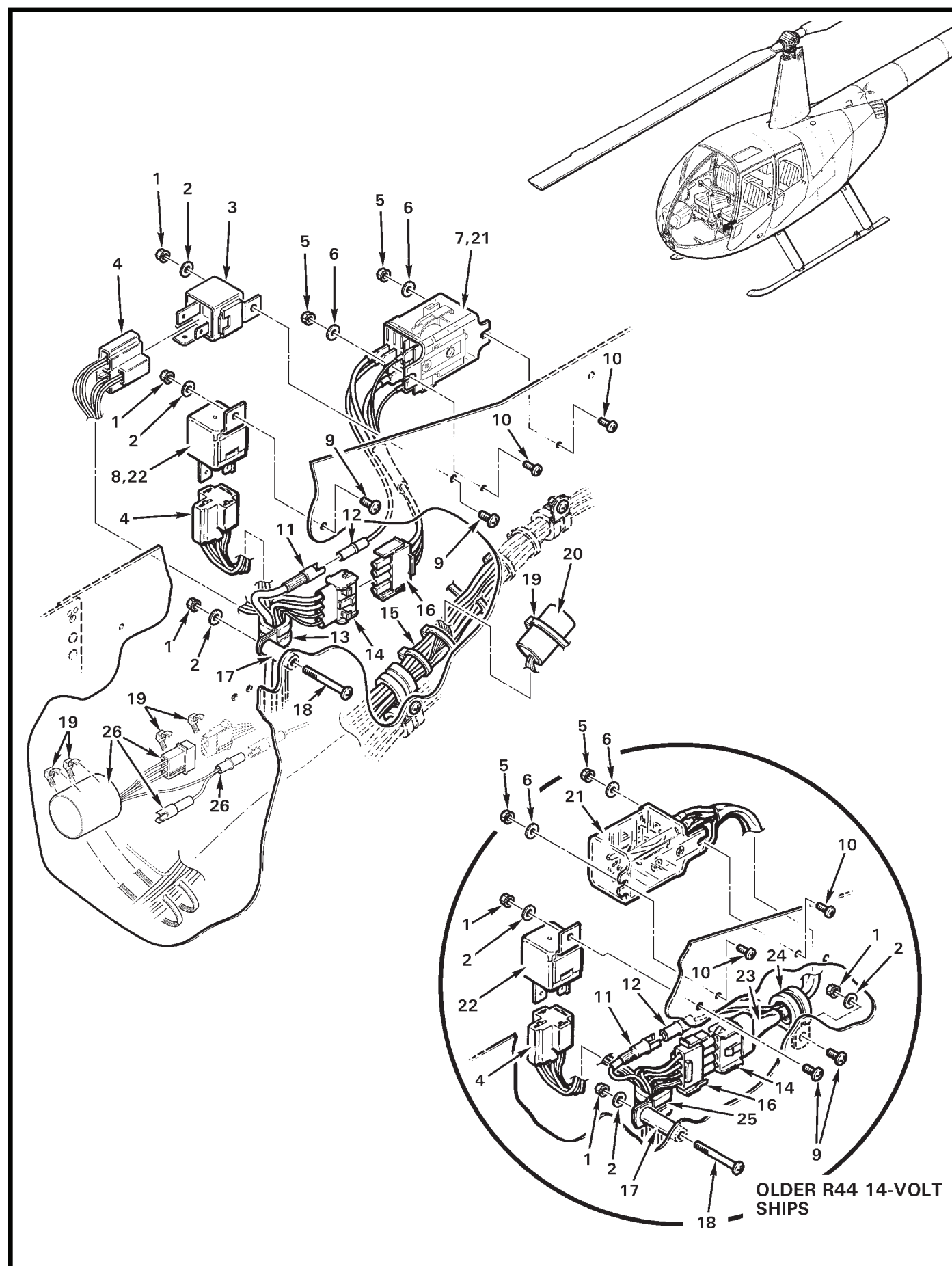
| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                                                                            | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|---------------|----------------------------------------------------------------------------------------|----------------|--------------------|
|                                  |               | BELT TENSION ACTUATOR TIME DELAY AND TEST PLUG                                         |                |                    |
| 96-55-1                          | B263-18       | Housing . . . . .                                                                      | X              | 1                  |
|                                  | B263-1        | Pin . . . . .                                                                          | X              | 5                  |
| 2                                | B263-19       | Housing (Ref, airframe harness) . . . . .                                              | X              | 1                  |
|                                  | B263-4        | Socket . . . . .                                                                       | X              | 5                  |
| 3                                | D602-1        | Time Delay Assembly - Belt Tension Actuator (Incl items 1,<br>and 8 thru 10) . . . . . | X              | 1                  |
| 4                                | MS21919WDG20  | Clamp . . . . .                                                                        | X              | 1                  |
| 5                                | AN3-4A        | Bolt . . . . .                                                                         | X              | 1                  |
| 6                                | MS3367-5-9    | Ty-Rap (Ref) . . . . .                                                                 | X              | 1                  |
| 7                                | B263-18       | Housing (6-pin) . . . . .                                                              | X              | 1                  |
|                                  | B263-1        | Pin (not shown) . . . . .                                                              | X              | 1                  |
|                                  | B263-3        | Pin (not shown) . . . . .                                                              | X              | 4                  |
|                                  | A15A          | Diode (between pins 3 and 5) . . . . .                                                 | X              | 1                  |
| 8                                | B263-19       | Housing . . . . .                                                                      | X              | 1                  |
|                                  | B263-2        | Socket . . . . .                                                                       | X              | 5                  |
| 9                                | B268-3        | Tape - Lacing . . . . .                                                                | X              | 2                  |
| 10                               | B266-4        | Sleeving (expandable) . . . . .                                                        | X              | 2                  |
| 11                               | MS21919WDG10  | Clamp . . . . .                                                                        | X              | 1                  |
| 12                               | NAS1149F0332P | Washer . . . . .                                                                       | X              | 4                  |
| 13                               | MS21042L3     | Nut . . . . .                                                                          | X              | 1                  |
| 14                               | MS3367-7-9    | Ty-Rap . . . . .                                                                       | X              | 1                  |
|                                  |               | . . . . .                                                                              | X              | 1                  |
| 15                               | B263-15       | Housing . . . . .                                                                      | X              | 1                  |
|                                  | B263-2        | Socket . . . . .                                                                       | X              | 2                  |
|                                  | B263-4        | Socket . . . . .                                                                       | X              | 1                  |
| 16                               | MT558-1       | Actuator Test Plug Assembly . . . . .                                                  | X              | 1                  |
| NOTES                            |               |                                                                                        |                |                    |



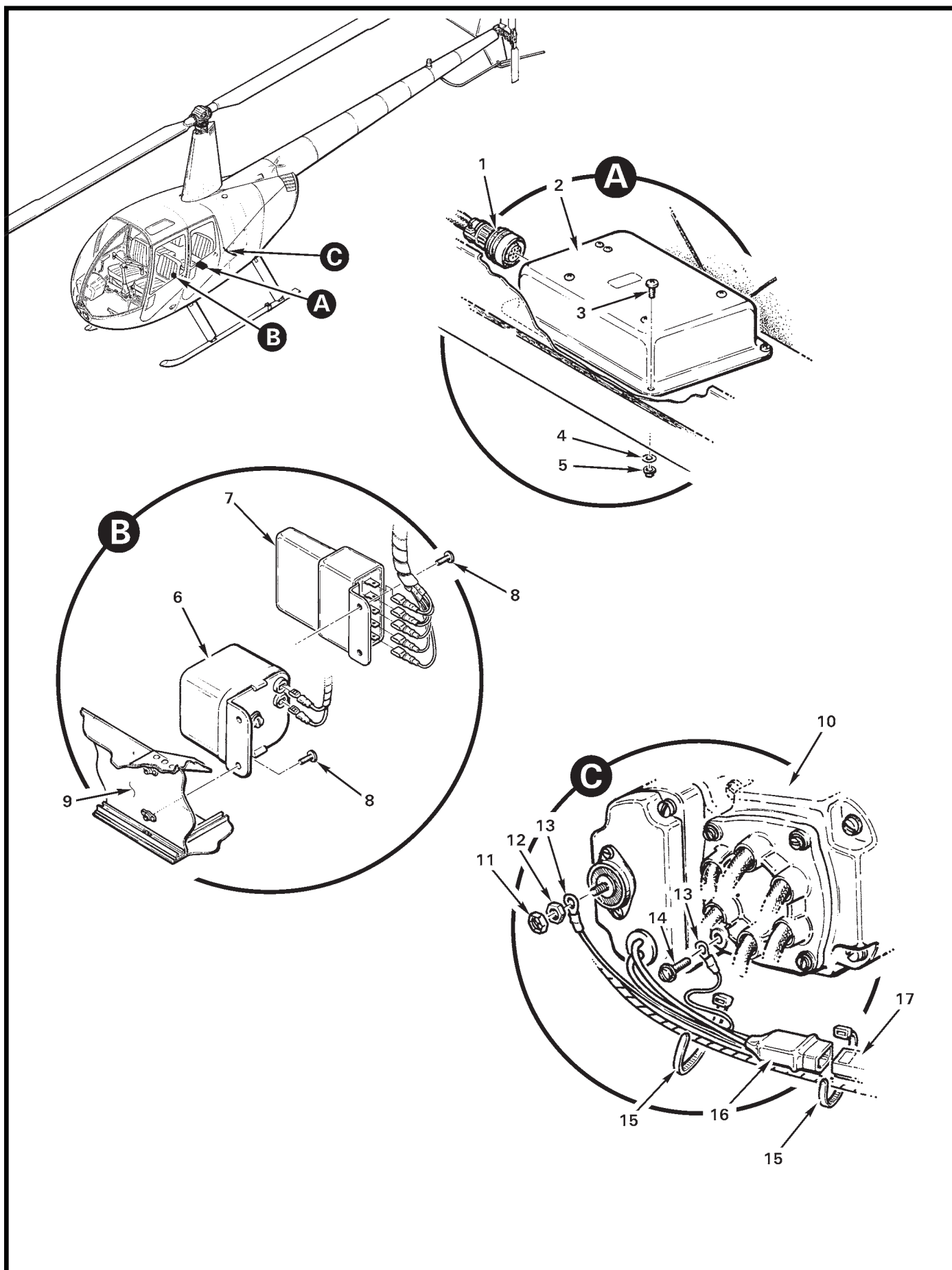
| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                                                                                                                 | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|
|                                  |               | COLLECTIVE-ACTIVATED SWITCH INSTALLATION                                                                                    |                |                    |
| 96-57-1                          | MS35489-19    | Grommet . . . . .                                                                                                           | X              | 1                  |
| 2                                | MS21042L04    | Nut . . . . .                                                                                                               | X              | 2                  |
| 3                                | NAS1149FN416P | Washer . . . . .                                                                                                            | X              | 2                  |
| 4                                | —             | Screw . . . . .                                                                                                             | O              | 3                  |
| 5                                | —             | Washer . . . . .                                                                                                            | O              | 3                  |
| 6                                | B260-2        | Terminal (4 places) . . . . .                                                                                               | X              | 4                  |
| 7                                | V3-1          | Switch - Micro (Low RPM warning; includes items 4 and 5.) . . .                                                             | X              | 1                  |
| 8                                | B158-6        | Heat Shrink . . . . .                                                                                                       | 1              | A/R                |
| 9                                | V3-1          | Switch - Micro (Hourmeter, includes items 4 and 5.) . . . . .                                                               | X              | 1                  |
| 10                               | -76           | Wire (Ref)                                                                                                                  |                |                    |
| 11                               | -751          | Wire (Ref)                                                                                                                  |                |                    |
| 12                               | MS35206-222   | Screw . . . . .                                                                                                             | X              | 2                  |
| 13                               | B261-2        | Splice (used only with item 21) . . . . .                                                                                   | X              | 2                  |
| 14                               | MS35489-4     | Grommet . . . . .                                                                                                           | X              | 1                  |
| 15                               | -75           | Wire (Ref)                                                                                                                  |                |                    |
| 16                               | -750          | Wire (Ref)                                                                                                                  |                |                    |
| 17                               | B161-2        | Spirap . . . . .                                                                                                            | X              | A/R                |
| 18                               | MS3367-4-9    | Ty-Rap . . . . .                                                                                                            | X              | 1                  |
| 19                               | B387-3        | Decal - "Collective Activated" . . . . .                                                                                    | X              | 1                  |
| 20                               | D830-2        | Hourmeter (Ref, see Figure 95-5)                                                                                            |                |                    |
|                                  |               | * * *                                                                                                                       |                |                    |
| 21                               | KI-108        | Collective-Activated Hourmeter Switch Installation Kit<br>(Includes items 2, 3, 8, 9, 12, 13, 18, 19, 22, and 23) . . . . . | X              | 1                  |
| 22                               | B387-750      | Wire (includes wire and item 6 [1]) . . . . .                                                                               | X              | 1                  |
| 23                               | B387-751      | Wire (includes wire and item 6 [1]) . . . . .                                                                               | X              | 1                  |
| NOTES                            |               |                                                                                                                             |                |                    |



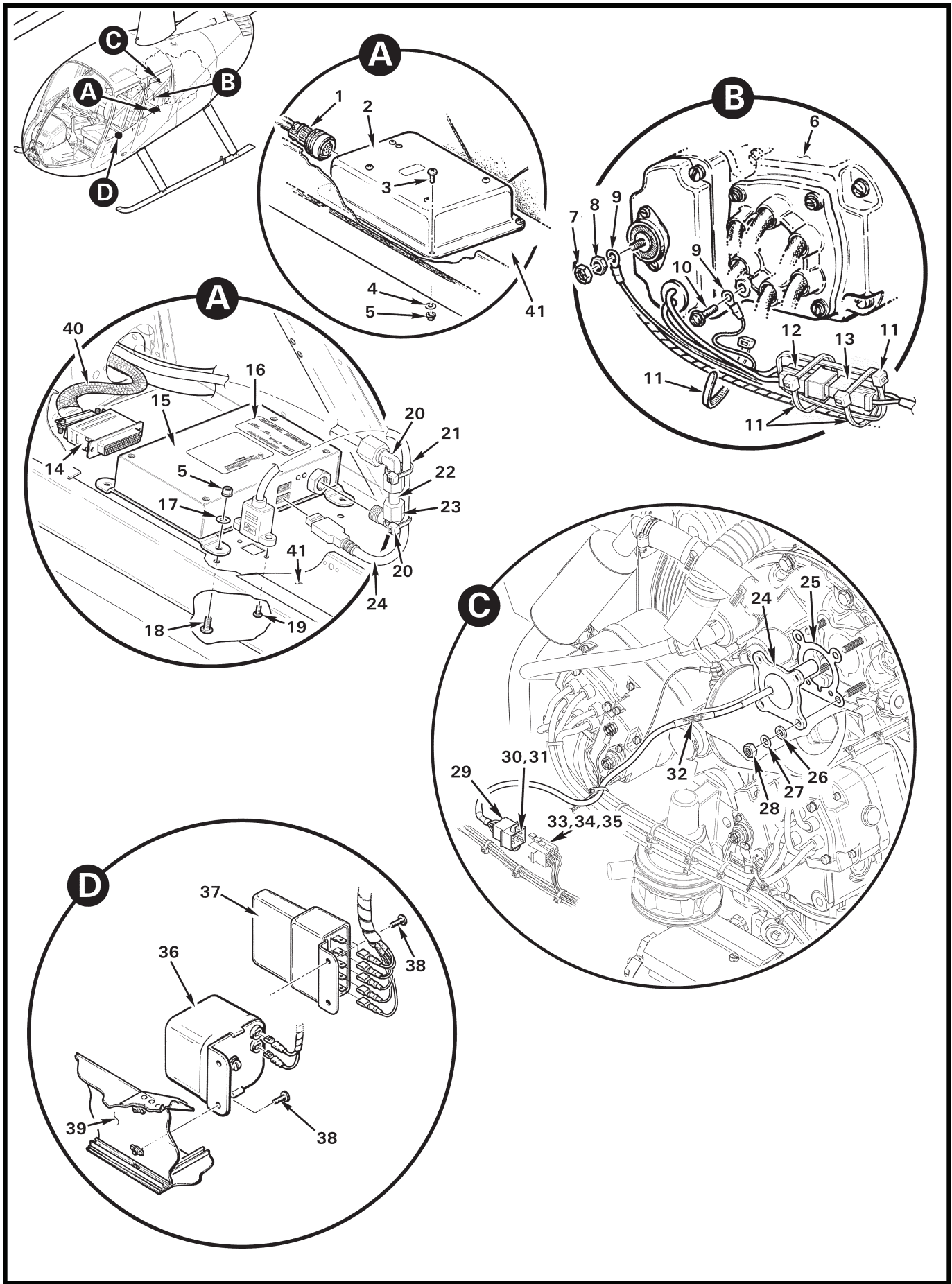
| FIGURE<br>AND<br>INDEX<br>NUMBER   | PART NUMBER    | DESCRIPTION                                                 | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|------------------------------------|----------------|-------------------------------------------------------------|----------------|--------------------|
|                                    |                | <b>CARBON MONOXIDE DETECTOR AND DIMMER<br/>INSTALLATION</b> |                |                    |
| 96-59-1                            | MS21042L06     | Nut . . . . .                                               | X              | 2                  |
| 2                                  | NAS1149FN616P  | Washer . . . . .                                            | X              | 2                  |
| 3                                  | B263-14        | Housing . . . . .                                           | X              | 2                  |
|                                    | B263-1         | Pin . . . . .                                               | X              | 2                  |
| 4                                  | MS21042L04     | Nut . . . . .                                               | X              | 1                  |
| 5                                  | NAS1149FN416P  | Washer . . . . .                                            | X              | 1                  |
| 6                                  | MS35206-232    | Screw . . . . .                                             | X              | 2                  |
| 7                                  | C696-1         | Carbon Monoxide Detector Assembly (Incl item 3) . . . . .   | X              | 1                  |
| 8                                  | MS35206-215    | Screw . . . . .                                             | X              | 1                  |
| 9                                  | —              | Panel - Upper Console (RH, Ref)                             |                |                    |
| 10                                 | 601716-4       | Terminal Block (Ref)                                        |                |                    |
| 11                                 | B263-18        | Housing . . . . .                                           | X              | 1                  |
|                                    | B263-1         | Pin . . . . .                                               | X              | 6                  |
| 12                                 | B395-1*        | Dimmer Assembly (panel lamp; includes item 11) . . . . .    | X              | 1                  |
| 13                                 | A130-34*       | Spacer . . . . .                                            | X              | 2                  |
| 14                                 | NAS1149FN816P* | Washer . . . . .                                            | X              | 2                  |
| 15                                 | MS27039C0810*  | Screw . . . . .                                             | X              | 3                  |
| <b>NOTES</b> * 28-volt ships only. |                |                                                             |                |                    |



| FIGURE<br>AND<br>INDEX<br>NUMBER                                                                                 | PART NUMBER   | DESCRIPTION                                                                      | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|------------------------------------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------------------------|----------------|--------------------|
|                                                                                                                  |               | <b>ELECTRICAL COMPONENTS</b>                                                     |                |                    |
| 96-61-1                                                                                                          | MS21042L08    | Nut . . . . .                                                                    | X              | 3                  |
| 2                                                                                                                | NAS1149FN816P | Washer . . . . .                                                                 | X              | 3                  |
| 3                                                                                                                | VF7-41H11     | Relay - Fuel Pump (ship S/N 10001 and higher, this location) . . . .             | X              | 1                  |
| 4                                                                                                                | VCF7-1000     | Connector . . . . .                                                              | X              | 1                  |
|                                                                                                                  | B262-6        | Receptacle (small) . . . . .                                                     | X              | 2                  |
|                                                                                                                  | B262-7        | Receptacle (large) . . . . .                                                     | X              | 2                  |
| 5                                                                                                                | MS21042L06    | Nut . . . . .                                                                    | X              | 2                  |
| 6                                                                                                                | NAS1149FN632P | Washer . . . . .                                                                 | X              | 2                  |
| 7                                                                                                                | A999-4        | Master Radio Relay Assembly (28-volt ships; Incl items 12 and 16) .              | X              | 1                  |
| 8                                                                                                                | VF7-41H11     | Relay - Landing Light (28-volt ships) . . . . .                                  | X              | 1                  |
| 9                                                                                                                | MS27039C0806  | Screw . . . . .                                                                  | X              | 2                  |
| 10                                                                                                               | MS35206-228   | Screw . . . . .                                                                  | X              | 2                  |
| 11                                                                                                               | B263-10       | Housing . . . . .                                                                | X              | 1                  |
|                                                                                                                  | B263-1        | Pin . . . . .                                                                    | X              | 1                  |
| 12                                                                                                               | B263-11       | Housing . . . . .                                                                | X              | 1                  |
|                                                                                                                  | B263-2        | Socket . . . . .                                                                 | X              | 1                  |
| 13                                                                                                               | MS21919WDG8   | Clamp (WDG9 or WDG10, as required to secure wire bundle) . .                     | X              | 1                  |
| 14                                                                                                               | B263-68       | Housing . . . . .                                                                | X              | 1                  |
|                                                                                                                  | B263-52       | Socket . . . . .                                                                 | X              | 2                  |
|                                                                                                                  | B263-56       | Socket . . . . .                                                                 | X              | 2                  |
| 15                                                                                                               | C059          | Harness Assembly (Ref)                                                           |                |                    |
| 16                                                                                                               | B263-67       | Housing . . . . .                                                                | X              | 1                  |
|                                                                                                                  | B263-51       | Pin . . . . .                                                                    | X              | 2                  |
|                                                                                                                  | B263-55       | Pin . . . . .                                                                    | X              | 2                  |
| 17                                                                                                               | C130-17       | Spacer (upper aft position shown) . . . . .                                      | X              | 4                  |
| 18                                                                                                               | MS27039C0822  | Screw (upper aft position shown) . . . . .                                       | X              | 4                  |
| 19                                                                                                               | MS3367-5-9    | Ty-Rap . . . . .                                                                 | X              | A/R                |
| 20                                                                                                               | D767-1        | Logic Module Assembly - Fuel Pump . . . . .                                      | X              | 1                  |
| 21                                                                                                               | A999-3        | Master Radio Relay Assembly (14-volt ships; Incl items 12, 14, and 23) . . . . . | X              | 1                  |
| 22                                                                                                               | VF7-41F11     | Relay - Landing Light (14-volt ships) . . . . .                                  | X              | 1                  |
| 23                                                                                                               | B158-12       | Heat Shrink . . . . .                                                            | X              | A/R                |
| 24                                                                                                               | MS21919WDG7   | Clamp . . . . .                                                                  | X              | 1                  |
| 25                                                                                                               | MS21919WDG8   | Clamp . . . . .                                                                  | X              | 1                  |
| 26                                                                                                               | D880-1 *      | Time Delay Assembly - Ignition Starting (assembled as shown)                     | X              | 1                  |
| <b>NOTES</b> * Ship S/N 10001 and higher only. Refer to R44 Service Letter R44 SL-42 to upgrade earlier R44 IIs. |               |                                                                                  |                |                    |



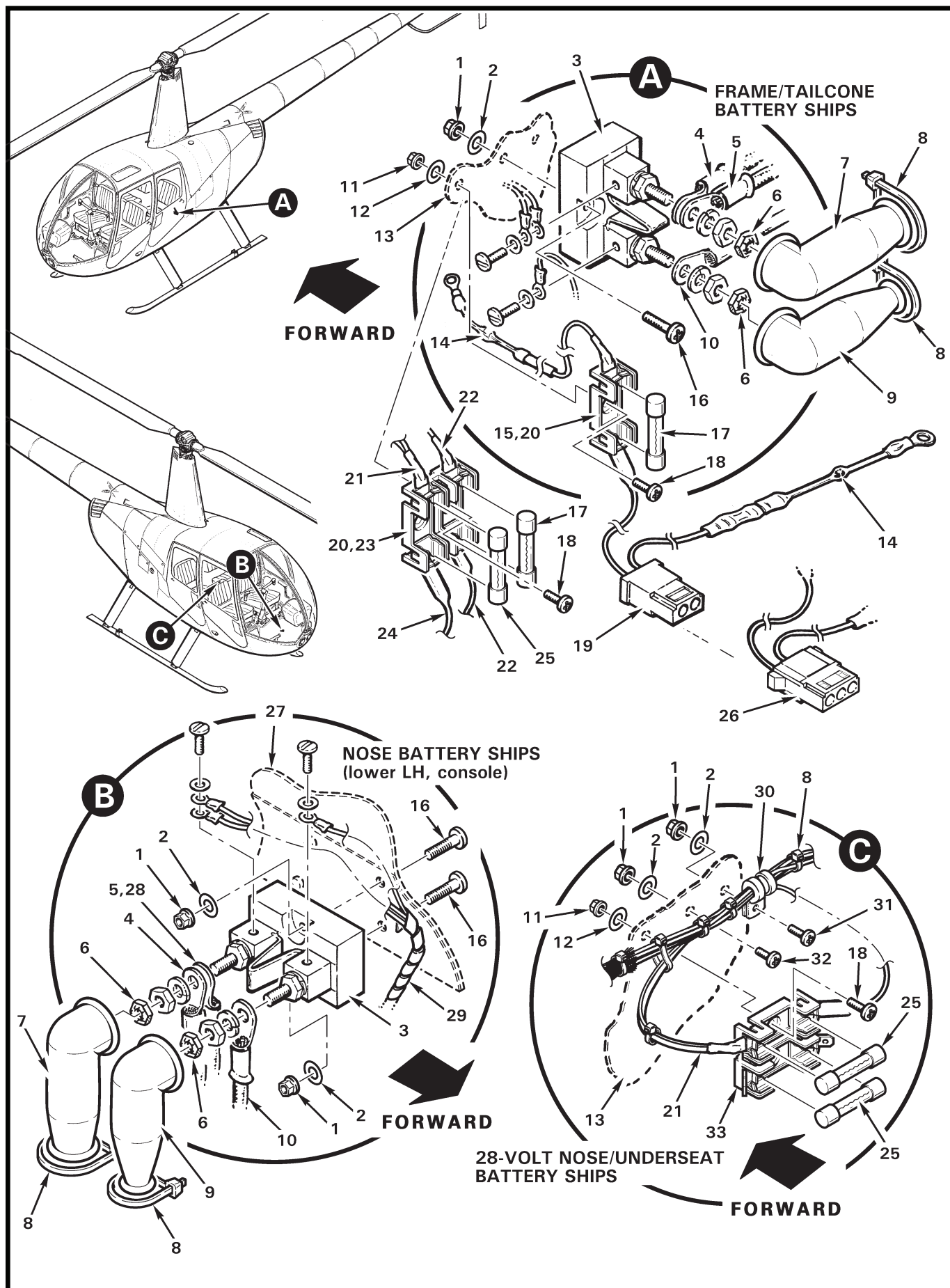
| FIGURE<br>AND<br>INDEX<br>NUMBER                               | PART NUMBER     | DESCRIPTION                                                                                                                        | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|
|                                                                |                 | ELECTRICAL COMPONENTS                                                                                                              |                |                    |
| 96-63-1                                                        | MS3116F12-10S   | Plug . . . . .                                                                                                                     | X              | 1                  |
| 2                                                              | D278-1          | Controller Assembly – Governor (R44 I ship S/N 0001 thru 2624, and R44 Cadet S/N 30001 thru 30060, and 30062 thru 30070) . . . . . | X              | 1                  |
|                                                                | D278-1R         | D278-1 Controller Assembly – Governor (overhaul exchange; R7534 core deposit required) . . . . .                                   | X              | 1                  |
|                                                                | D278-2          | Controller Assembly – Governor (R44 II ship S/N 10001 thru 14363, and 14365 thru 14411) . . . . .                                  | X              | 1                  |
|                                                                | D278-2R         | D278-2 Controller Assembly – Governor (overhaul exchange; R9615 core deposit required) . . . . .                                   | X              | 1                  |
| 3                                                              | MS27039C0806    | Screw . . . . .                                                                                                                    | X              | 4                  |
| 4                                                              | NAS1149FN816P   | Washer . . . . .                                                                                                                   | X              | 4                  |
| 5                                                              | MS21042L08      | Nut . . . . .                                                                                                                      | X              | 4                  |
| 6                                                              | 10-176487-121 * | Starting Vibrator (14-volt ships) . . . . .                                                                                        | X              | 1                  |
|                                                                | 10-357487-241 * | Starting Vibrator (28-volt ships) . . . . .                                                                                        | X              | 1                  |
| 7                                                              | SS1002 **       | Vibrator Start Booster (ship S/N 10001 and subsequent) . . . . .                                                                   | X              | 1                  |
| 8                                                              | MS27039C1-08    | Screw . . . . .                                                                                                                    | X              | 2                  |
| 9                                                              | C296            | Bulkhead (Ref)                                                                                                                     |                |                    |
| 10                                                             | 10-600646-201 * | Magneto – Tachometer (Ref)                                                                                                         |                |                    |
| 11                                                             | B330-7          | Palnut ([2] required on retard mag, not shown) . . . . .                                                                           | X              | 3                  |
| 12                                                             | MS35650-302     | Nut ([2] required on retard mag, not shown) . . . . .                                                                              | X              | 3                  |
| 13                                                             | B260-4          | Terminal ([4] required on retard mag, not shown) . . . . .                                                                         | X              | 6                  |
| 14                                                             | 10-35937-10     | Screw . . . . .                                                                                                                    | X              | 4                  |
| 15                                                             | MS3367-5-9      | Ty-Rap . . . . .                                                                                                                   | X              | A/R                |
| 16                                                             | B263-12         | Housing . . . . .                                                                                                                  | X              | 1                  |
|                                                                | B263-1          | Pin . . . . .                                                                                                                      | X              | 2                  |
|                                                                | B158-8          | Heat Shrink . . . . .                                                                                                              | X              | A/R                |
| 17                                                             | B263-13         | Housing . . . . .                                                                                                                  | X              | 1                  |
|                                                                | B263-2          | Socket . . . . .                                                                                                                   | X              | 2                  |
| NOTES      * Continental Motors part no.<br>** Unison part no. |                 |                                                                                                                                    |                |                    |



| FIGURE<br>AND<br>INDEX<br>NUMBER           | PART NUMBER     | DESCRIPTION                                                              | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|--------------------------------------------|-----------------|--------------------------------------------------------------------------|----------------|--------------------|
|                                            |                 | <b>ELECTRICAL COMPONENTS</b>                                             |                |                    |
| 96-63B-1                                   | MS3116F12-10S   | Plug . . . . .                                                           | X              | 1                  |
| 2                                          | D278-1          | Controller Assembly – Governor (Earlier R44s) . . . . .                  | X              | 1                  |
|                                            | D278-1R         | D278-1 Controller Assembly – Governor (overhaul exchange)                | X              | 1                  |
|                                            | D278-2          | Controller Assembly – Governor (Earlier R44 Raven IIs) . . . . .         | X              | 1                  |
|                                            | D278-2R         | D278-2 Controller Assembly – Governor (overhaul exchange)                | X              | 1                  |
| 3                                          | MS27039C0806    | Screw . . . . .                                                          | X              | 4                  |
| 4                                          | NAS1149FN816P   | Washer . . . . .                                                         | X              | 4                  |
| 5                                          | MS21042L08      | Nut . . . . .                                                            | X              | 8                  |
| 6                                          | 10-600646-201 * | Magneto – Tachometer (Ref)                                               |                |                    |
| 7                                          | B330-7          | Palnut ([2] required on retard mag, not shown) . . . . .                 | X              | 3                  |
| 8                                          | MS35650-302     | Nut ([2] required on retard mag, not shown) . . . . .                    | X              | 3                  |
| 9                                          | B260-4          | Terminal (4 required on retard mag, not shown) . . . . .                 | X              | 6                  |
| 10                                         | 10-35937-10     | Screw . . . . .                                                          | X              | 4                  |
| 11                                         | MS3367-5-9      | Ty-Rap . . . . .                                                         | X              | A/R                |
| 12                                         | B263-12         | Housing . . . . .                                                        | X              | 1                  |
|                                            | B263-1          | Pin . . . . .                                                            | X              | 2                  |
|                                            | B158-8          | Heat Shrink . . . . .                                                    | X              | A/R                |
| 13                                         | B263-13         | Housing . . . . .                                                        | X              | 1                  |
|                                            | B263-2          | Socket . . . . .                                                         | X              | 2                  |
| 14                                         | B269-82         | Receptacle (Ref)                                                         |                |                    |
|                                            | B269-23         | Backshell (Ref)                                                          |                |                    |
| 15                                         | D270-1          | Controller Assembly – Governor (Digital) . . . . .                       | X              | 1                  |
| 16                                         | MS27039C0805    | Screw . . . . .                                                          | X              | 4                  |
| 17                                         | NAS1149FN816P   | Washer . . . . .                                                         | X              | 4                  |
| 18                                         | —               | Screw . . . . .                                                          | O              | 2                  |
| 19                                         | 1598-01C        | Cable . . . . .                                                          | X              | 1                  |
| 20                                         | MS3367-4-9      | Ty-Rap . . . . .                                                         | X              | A/R                |
| 21                                         | 40-4-2-N-O      | Fitting . . . . .                                                        | X              | 2                  |
| 22                                         | A729-69         | Tube . . . . .                                                           | X              | 1                  |
| 23                                         | 50-4-N-O        | Elbow . . . . .                                                          | X              | 1                  |
| 24                                         | C143-2          | Sensor Assembly (Engine tachometer; includes items 29 thru 32) . . . . . | X              | 1                  |
| <b>NOTES</b> * Continental Motors part no. |                 |                                                                          |                |                    |

| FIGURE<br>AND<br>INDEX<br>NUMBER                                                        | PART NUMBER     | DESCRIPTION                                                     | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|-----------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------|----------------|--------------------|
|                                                                                         |                 | ELECTRICAL COMPONENTS                                           |                |                    |
| 96-63B-25                                                                               | 61183           | Gasket, Accessory adapter . . . . .                             | X              | 1                  |
| 26                                                                                      | STD-8*          | Washer (1/4 inch plain) . . . . .                               | X              | 4                  |
| 27                                                                                      | STD-160*        | Lockwasher (internal teeth) . . . . .                           | X              | 4                  |
| 28                                                                                      | STD-1411*       | Nut (1/4-20, plain) . . . . .                                   | X              | 4                  |
| 29                                                                                      | B263-18         | Housing . . . . .                                               | X              | 1                  |
| 30                                                                                      | B263-1          | Pin . . . . .                                                   | X              | 6                  |
| 31                                                                                      | B267-3          | Terminator (not shown) . . . . .                                | X              | 1                  |
| 32                                                                                      | —               | Heat Shrink . . . . .                                           | X              | A/R                |
| 33                                                                                      | B263-19         | Housing (wires -2886, -2887, -2888) . . . . .                   | X              | 1                  |
| 34                                                                                      | B263-2          | Socket . . . . .                                                | X              | 4                  |
| 35                                                                                      | B267-2          | Terminator (not shown) . . . . .                                | X              | 1                  |
| 36                                                                                      | 10-176487-121** | Magneto Start Booster (14-volt ships) . . . . .                 | X              | 1                  |
|                                                                                         | 10-357487-241** | Magneto Start Booster (28-volt ships) . . . . .                 | X              | 1                  |
| 37                                                                                      | SS1002***       | Magneto Start Booster (ship S/N 10001 and subsequent) . . . . . | X              | 1                  |
| 38                                                                                      | MS27039C1-08    | Screw . . . . .                                                 | X              | 2                  |
| 39                                                                                      | C296            | Bulkhead (Ref)                                                  |                |                    |
| 40                                                                                      | C859            | Wire Harness (Ref)                                              |                |                    |
| 41                                                                                      | C679-3          | Cover – Aft Baggage Compartment (Ref)                           |                |                    |
| NOTES      * Lycoming part no.<br>** Continental Motors part no.<br>*** Unison part no. |                 |                                                                 |                |                    |

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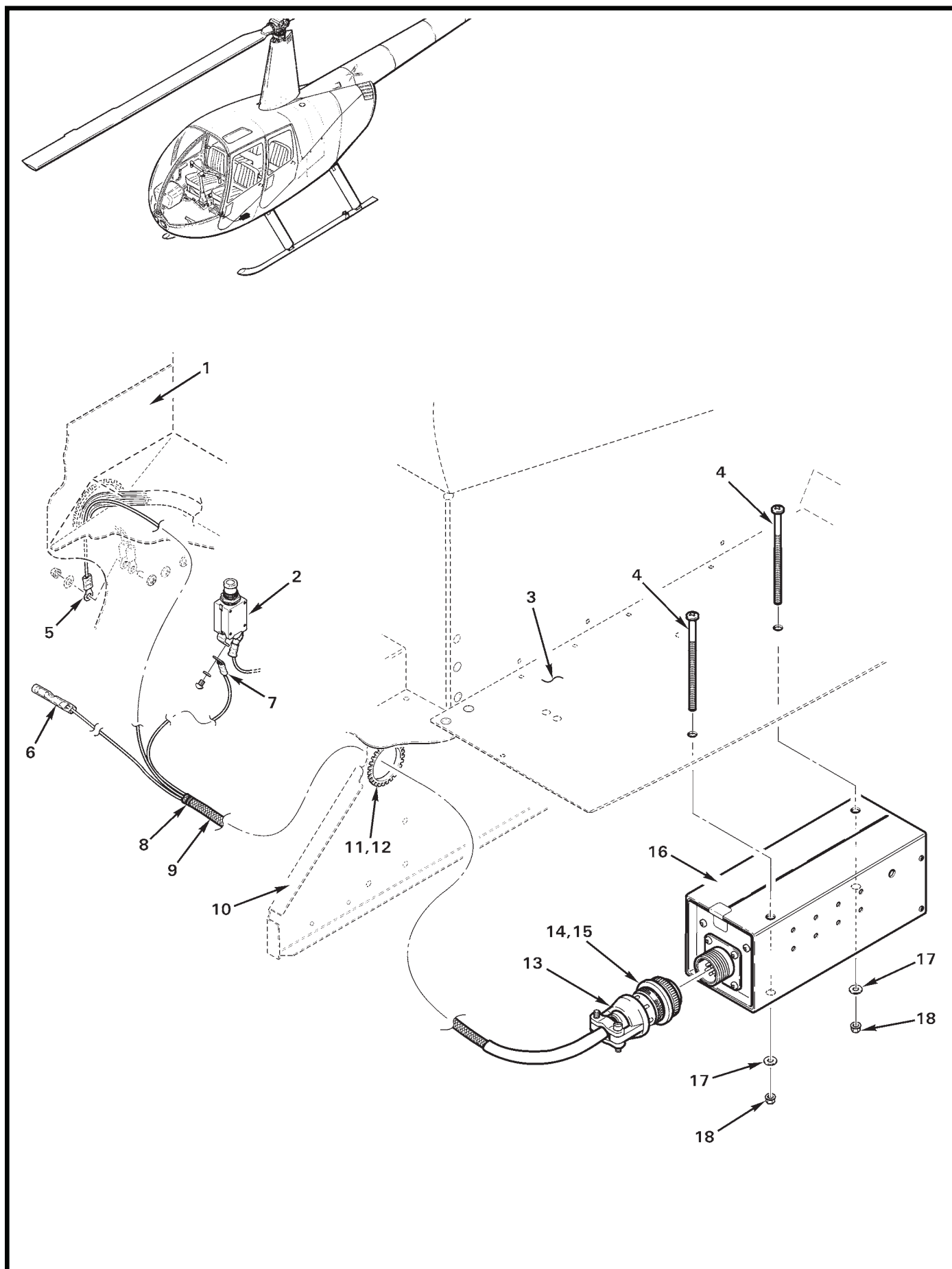
| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                                                                                                                                                           | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|
|                                  |               | <b>ELECTRICAL COMPONENTS</b>                                                                                                                                          |                |                    |
| 96-65-1                          | MS21042L08    | Nut . . . . .                                                                                                                                                         | X              | 2                  |
| 2                                | NAS1149FN816P | Washer . . . . .                                                                                                                                                      | X              | 2                  |
| 3                                | 1465-70-104   | Shunt (includes hardware.) . . . . .                                                                                                                                  | X              | 1                  |
| 4                                | C059-22       | Wire (Ref, from alternator output)                                                                                                                                    |                |                    |
| 5                                | C059-14       | Wire (Ref, to circuit breaker panel)                                                                                                                                  |                |                    |
| 6                                | B330-13       | Palnut . . . . .                                                                                                                                                      | X              | 2                  |
| 7                                | MS25171-4S    | Nipple . . . . .                                                                                                                                                      | X              | 1                  |
| 8                                | MS3367-4-9    | Ty-Rap . . . . .                                                                                                                                                      | X              | 2                  |
| 9                                | MS25171-2S    | Nipple . . . . .                                                                                                                                                      | X              | 1                  |
| 10                               | C067-580      | Cable (Ref)                                                                                                                                                           |                |                    |
| 11                               | MS21042L06    | Nut . . . . .                                                                                                                                                         | X              | 1                  |
| 12                               | NAS1149FN616P | Washer . . . . .                                                                                                                                                      | X              | 1                  |
| 13                               | C233          | Firewall - Vertical (Ref)                                                                                                                                             |                |                    |
| 14                               | A15A          | Diode . . . . .                                                                                                                                                       | X              | 2                  |
| 15                               | D262-1        | Fuse Block (alternate part no. 354601) . . . . .                                                                                                                      | X              | 1                  |
| 16                               | MS27039C0810  | Screw . . . . .                                                                                                                                                       | X              | 2                  |
| 17                               | AGC-3         | Fuse (3-amp) . . . . .                                                                                                                                                | X              | 1                  |
| 18                               | MS35206-228   | Screw . . . . .                                                                                                                                                       | X              | 1                  |
| 19                               | B263-13       | Housing . . . . .                                                                                                                                                     | X              | 1                  |
|                                  | B263-2        | Socket . . . . .                                                                                                                                                      | X              | 2                  |
| 20                               | B304-4        | Diode Assembly (14-volt ships with frame battery. Includes items 11, 12, 14, 15, 17 thru 19, wires, splice, heat shrink and terminals; assembled as shown.) . . . . . | X              | 1                  |
|                                  | B304-5        | Diode Assembly (28-volt ships with frame battery. Includes items 11, 12, 14, 17, 18, 23, 26, wires, splice, heat shrink and terminals; assembled as shown.) . . . . . | X              | 1                  |
| 21                               | C059-1601*    | Wire (Ref)                                                                                                                                                            |                |                    |
|                                  | C059-1602*    | Wire (Ref)                                                                                                                                                            |                |                    |
| 22                               | C059-66       | Wire (Ref, to battery relay)                                                                                                                                          |                |                    |
| 23                               | D262-2        | Fuse Block (28-volt ships, frame/tailcone battery; alternate part no. 354602) . . . . .                                                                               | X              | 1                  |
| 24                               | C059-1528*    | Wire (Ref)                                                                                                                                                            |                |                    |
| 25                               | AGC-5*        | Fuse (5-amp) . . . . .                                                                                                                                                | X              | 1                  |

NOTES \* Ship S/N 10001 and subsequent.

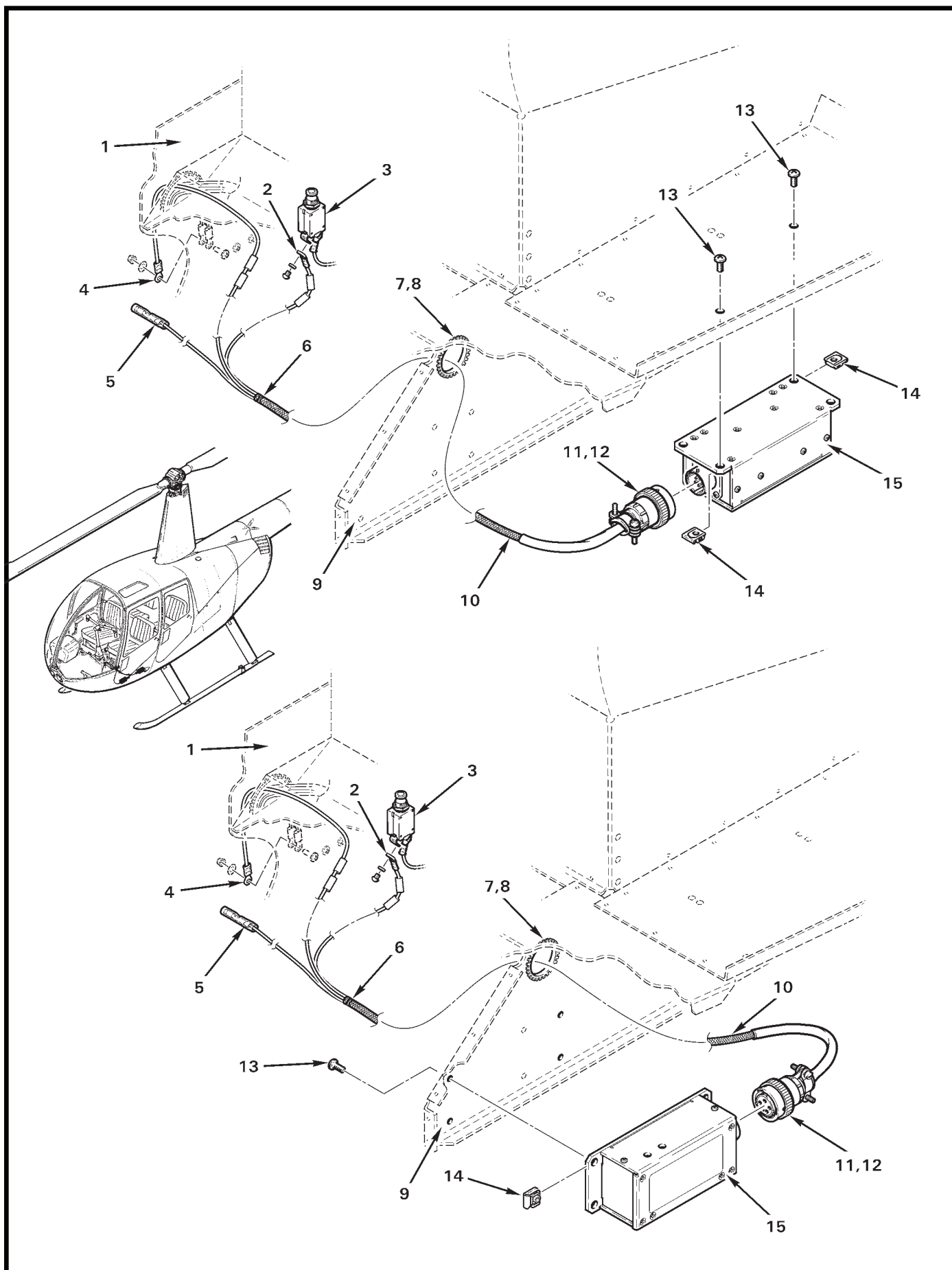
Continues

| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER  | DESCRIPTION                                                                                                    | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|--------------|----------------------------------------------------------------------------------------------------------------|----------------|--------------------|
|                                  |              | ELECTRICAL COMPONENTS (Cont'd)                                                                                 |                |                    |
| 96-65-26                         | B263-15      | Housing . . . . .                                                                                              | X              | 1                  |
|                                  | B263-2       | Socket . . . . .                                                                                               | X              | 2                  |
| 27                               | C359         | Panel - LH Lower Console (Ref)                                                                                 |                |                    |
| 28                               | C059-1403    | Wire (Ref)                                                                                                     |                |                    |
| 29                               | B161-2       | Spirap . . . . .                                                                                               | X              | A/R                |
| 30                               | MS21919WDG7  | Clamp . . . . .                                                                                                | X              | 1                  |
| 31                               | MS27039C0807 | Screw . . . . .                                                                                                | X              | 1                  |
| 32                               | MS27039C0806 | Screw . . . . .                                                                                                | X              | 1                  |
| 33                               | D262-2       | Fuse Block (Ships with nose or under seat battery, S/N 10001 and higher. Alternate part no. 354602.) . . . . . | X              | 1                  |
| NOTES                            |              |                                                                                                                |                |                    |

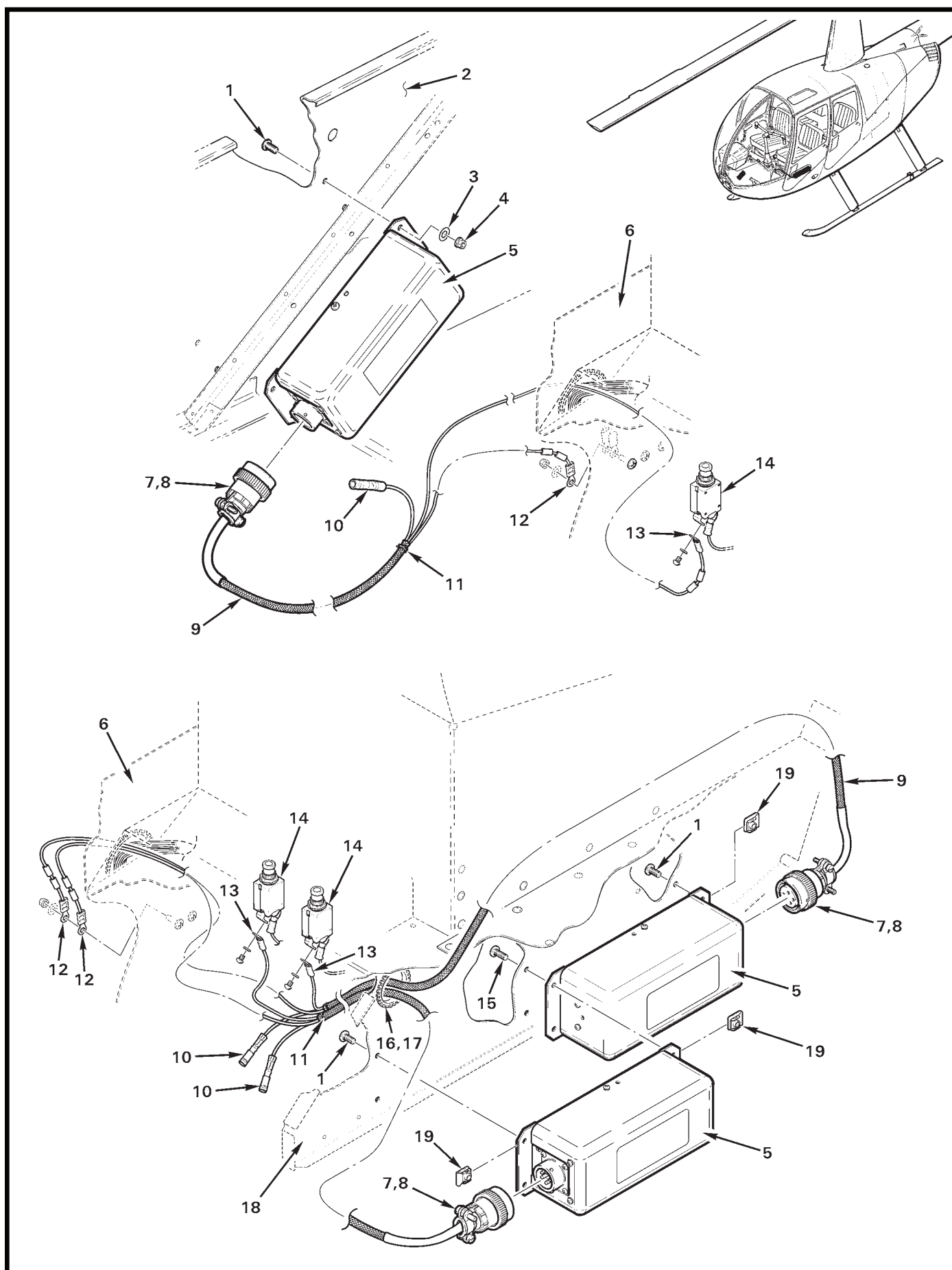
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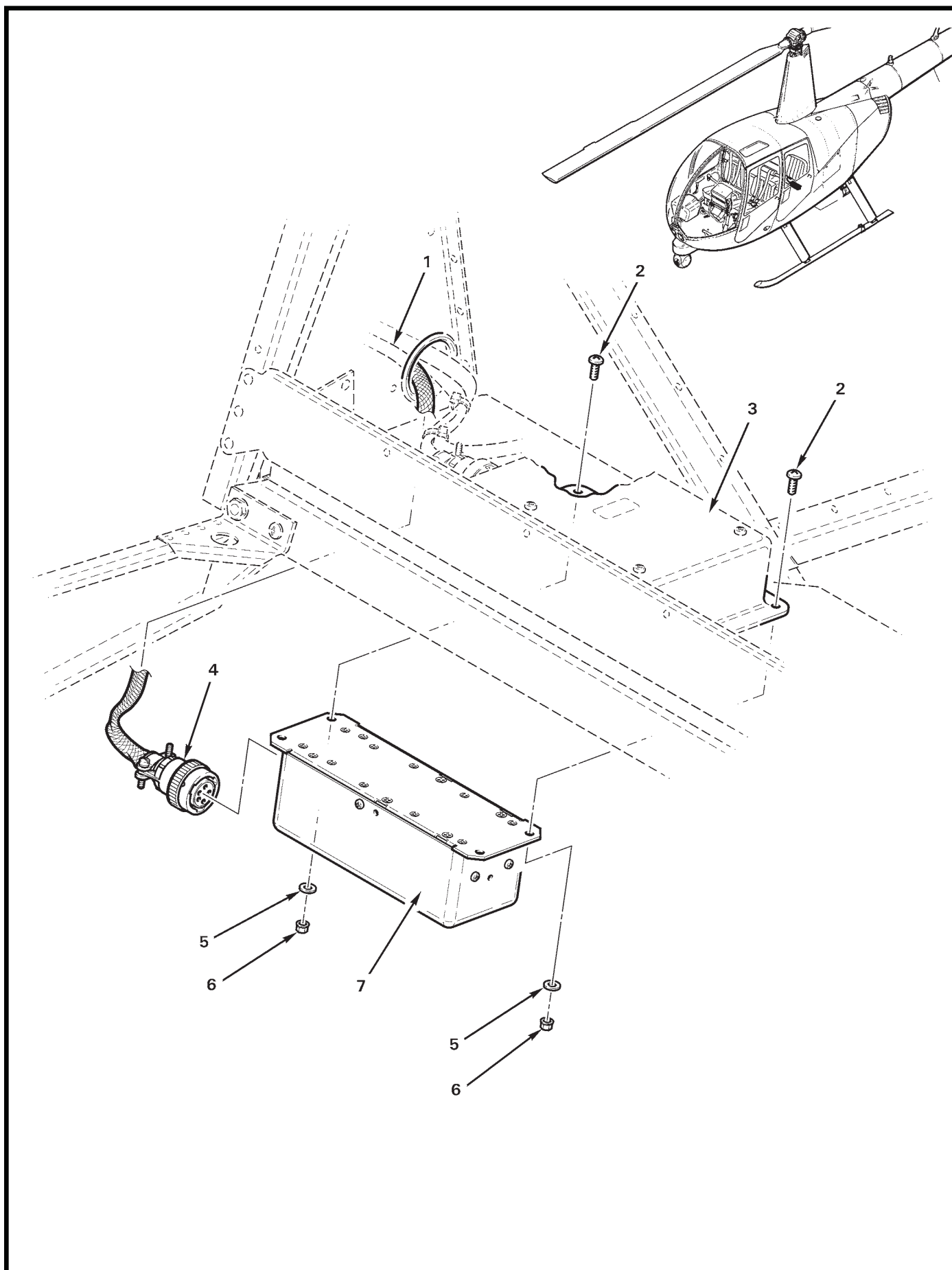
| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                                                                          | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|---------------|--------------------------------------------------------------------------------------|----------------|--------------------|
|                                  |               | POWER BOOSTER INSTALLATION (14V TO 28V)*                                             |                |                    |
| 96-69-1                          | C293          | Keel Panel (LH, Ref)                                                                 |                |                    |
| 2                                | B297-2        | Circuit Breaker (2-amp) . . . . .                                                    | X              | 1                  |
| 3                                | C353          | Panel (LH, Ref)                                                                      |                |                    |
| 4                                | —             | Screw (supplied with item 16) . . . . .                                              | O              | 2                  |
| 5                                | B260-3        | Terminal ("ground" wire) . . . . .                                                   | X              | 1                  |
| 6                                | B261-2        | Splice (28-volt "out" wire) . . . . .                                                | X              | 1                  |
| 7                                | B260-2        | Terminal (14-volt "in" wire) . . . . .                                               | X              | 1                  |
| 8                                | B268-3        | Tape - Lacing . . . . .                                                              | X              | A/R                |
| 9                                | B266-8        | Sleeving . . . . .                                                                   | X              | A/R                |
| 10                               | C531          | Support (Ref)                                                                        |                |                    |
| 11                               | MS21266-1N    | Grommet (install using item 12) . . . . .                                            | X              | A/R                |
| 12                               | B270-8qt      | Adhesive . . . . .                                                                   | X              | A/R                |
| 13                               | M85049/2-6C   | Cable Clamp . . . . .                                                                | X              | 1                  |
| 14                               | MS3106A14S-5S | Plug . . . . .                                                                       | X              | 1                  |
| 15                               | D392-5        | Wire Harness Assembly (Incl items 5 thru 9, 13, 14, and wiring; assembled) . . . . . | X              | 1                  |
| 16                               | RB125         | Power Booster* (regulated; includes item 4) . . . . .                                | X              | 1                  |
| 17                               | NAS1149FN832P | Washer . . . . .                                                                     | X              | 2                  |
| 18                               | MS21042L08    | Nut . . . . .                                                                        | X              | 2                  |
| NOTES * 14-volt ships only.      |               |                                                                                      |                |                    |



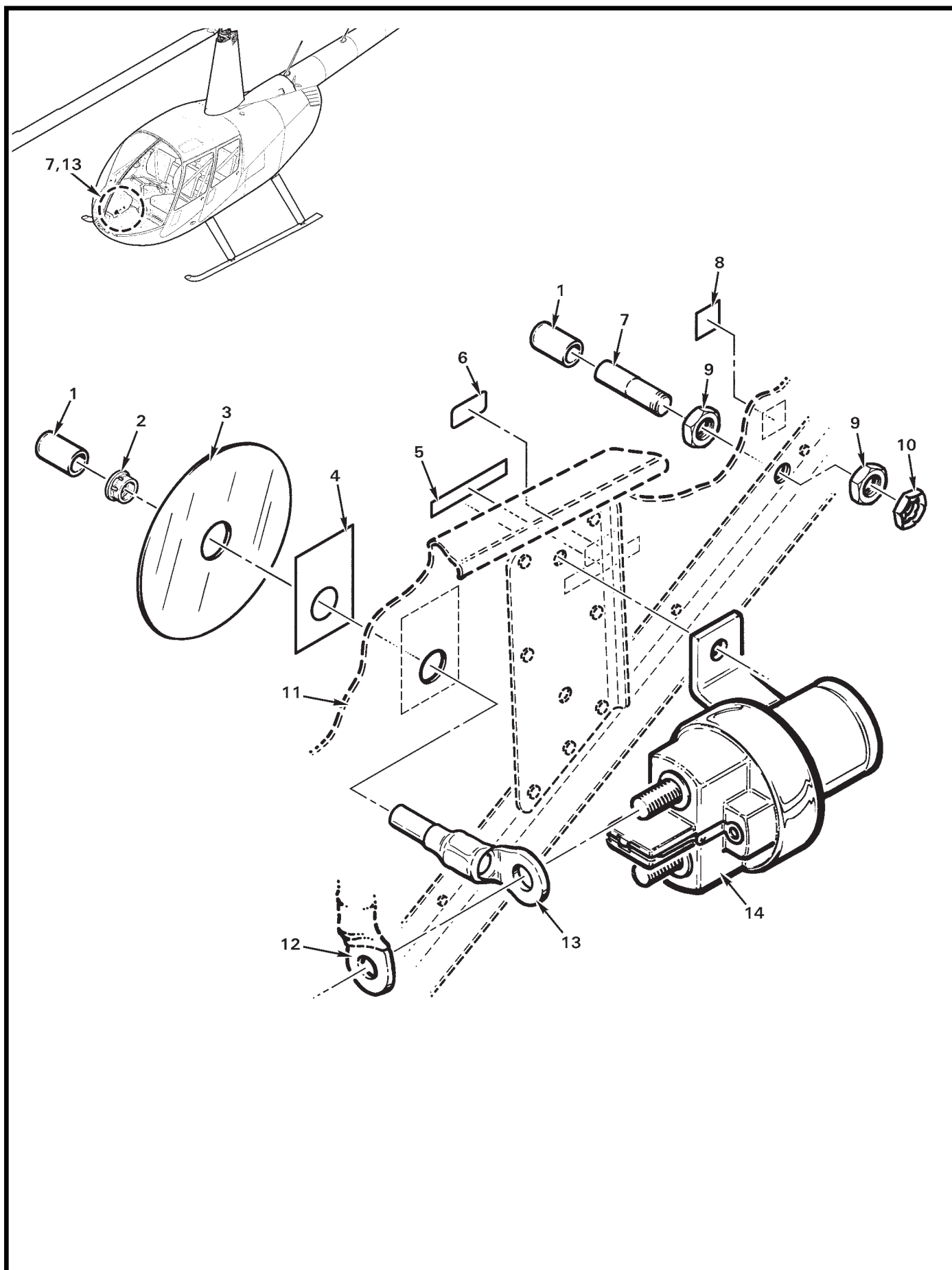
| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER  | DESCRIPTION                                                     | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|--------------|-----------------------------------------------------------------|----------------|--------------------|
|                                  |              | POWER CONVERTER INSTALLATION (28V TO 14V)                       |                |                    |
| 96-71-1                          | C293         | Keel Panel (LH, Ref)                                            |                |                    |
| 2                                | B260-2       | Terminal (28-volt "in" wire) . . . . .                          | X              | 1                  |
| 3                                | B297-2       | Circuit Breaker (2-amp) . . . . .                               | X              | 1                  |
| 4                                | B260-9       | Terminal (ground wire) . . . . .                                | X              | 1                  |
| 5                                | B261-3       | Splice (14-volt "out") . . . . .                                | X              | 1                  |
| 6                                | B268-3       | Tape - Lacing . . . . .                                         | X              | A/R                |
| 7                                | MS21266-1N   | Grommet (install using item 8) . . . . .                        | X              | A/R                |
| 8                                | B270-8qt     | Adhesive . . . . .                                              | X              | A/R                |
| 9                                | C531         | Support (Ref)                                                   |                |                    |
| 10                               | B266-4       | Sleeving . . . . .                                              | X              | A/R                |
| 11                               | D392-2       | Harness Assembly (Incl items 2, 4 thru 6, 10, and 12) . . . . . | X              | A/R                |
| 12                               | MS3116F14-5S | Plug . . . . .                                                  | X              | 1                  |
| 13                               | MS27039C0806 | Screw . . . . .                                                 | X              | A/R                |
| 14                               | B162-2       | Clipnut . . . . .                                               | X              | A/R                |
| 15                               | LT-46D       | Converter - Power (28- to 14-volt, 4-amp output) . . . . .      | X              | A/R                |
| NOTES                            |              |                                                                 |                |                    |



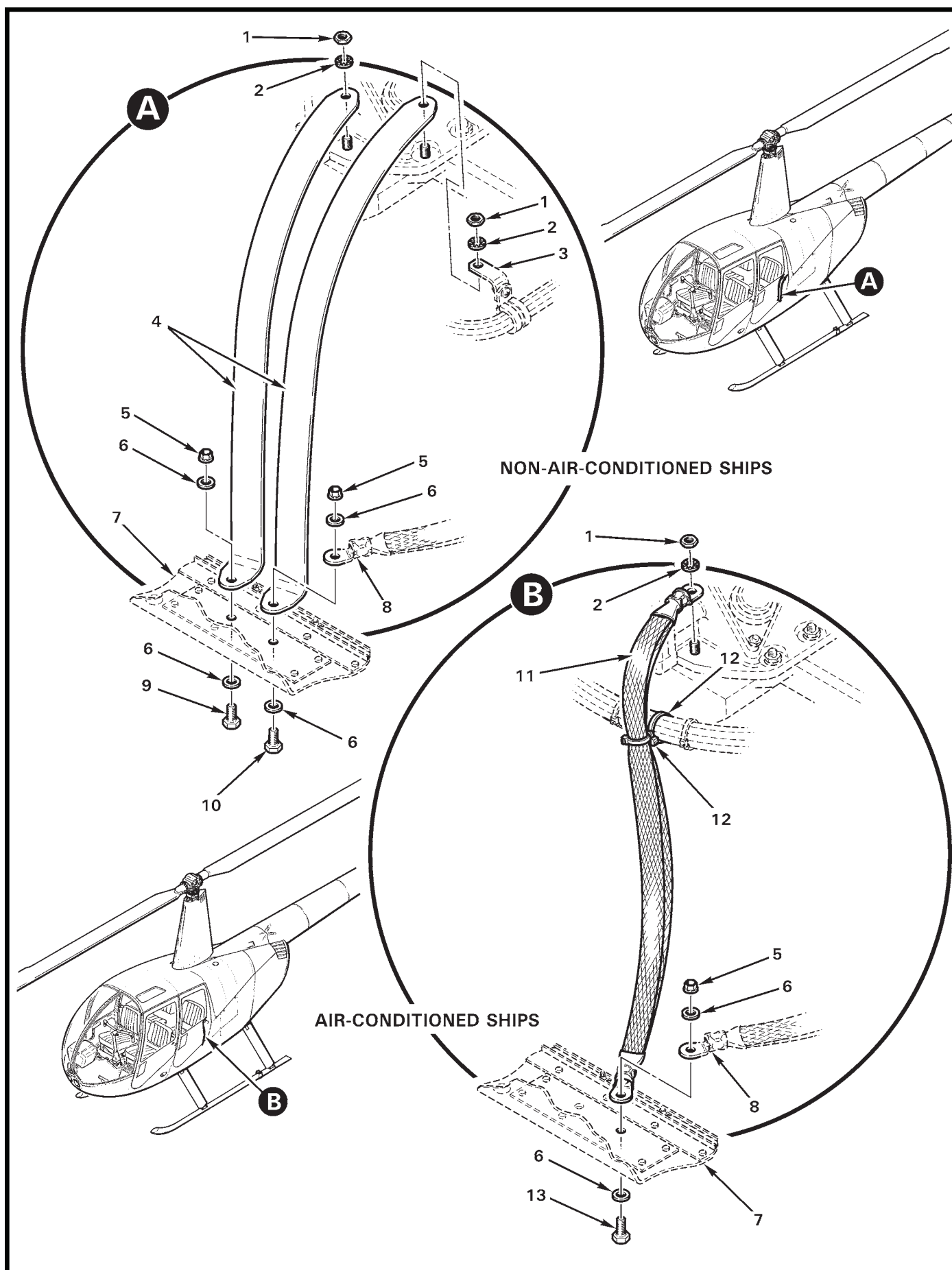
| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                                                | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|---------------|------------------------------------------------------------|----------------|--------------------|
|                                  |               | POWER CONVERTER INSTALLATION (28V TO 14V)                  |                |                    |
| 96-73-1                          | MS27039C0806  | Screw . . . . .                                            | X              | A/R                |
| 2                                | C033          | Lower Console Assembly (Ref)                               |                |                    |
| 3                                | NAS1149FN832P | Washer . . . . .                                           | X              | A/R                |
| 4                                | MS21042L08    | Nut . . . . .                                              | X              | A/R                |
| 5                                | LT-71A        | Converter - Power (28- to 14-volt, 8-amp output) . . . . . | X              | A/R                |
| 6                                | C293          | Keel Panel (LH, Ref)                                       |                |                    |
| 7                                | D392-2        | Harness Assembly (Incl items 8 thru 13) . . . . .          | X              | A/R                |
| 8                                | MS3116F14-5S  | Plug . . . . .                                             | X              | 1                  |
| 9                                | B266-4        | Sleeving . . . . .                                         | X              | A/R                |
| 10                               | B261-3        | Splice (14-volt "out" wire) . . . . .                      | X              | 1                  |
| 11                               | B268-3        | Tape - Lacing . . . . .                                    | X              | A/R                |
| 12                               | B260-9        | Terminal (ground wire) . . . . .                           | X              | 1                  |
| 13                               | B260-2        | Terminal (28-volt "in" wire) . . . . .                     | X              | 1                  |
| 14                               | B297-2        | Circuit Breaker (2-amp) . . . . .                          | X              | 1                  |
| 15                               | MS27039C0808  | Screw . . . . .                                            | X              | A/R                |
| 16                               | MS21266-1N    | Grommet (install using item 17) . . . . .                  | X              | A/R                |
| 17                               | B270-8qt      | Adhesive . . . . .                                         | X              | A/R                |
| 18                               | C531          | Support (Ref)                                              |                |                    |
| 19                               | B162-2        | Clipnut . . . . .                                          | X              | A/R                |
| NOTES                            |               |                                                            |                |                    |



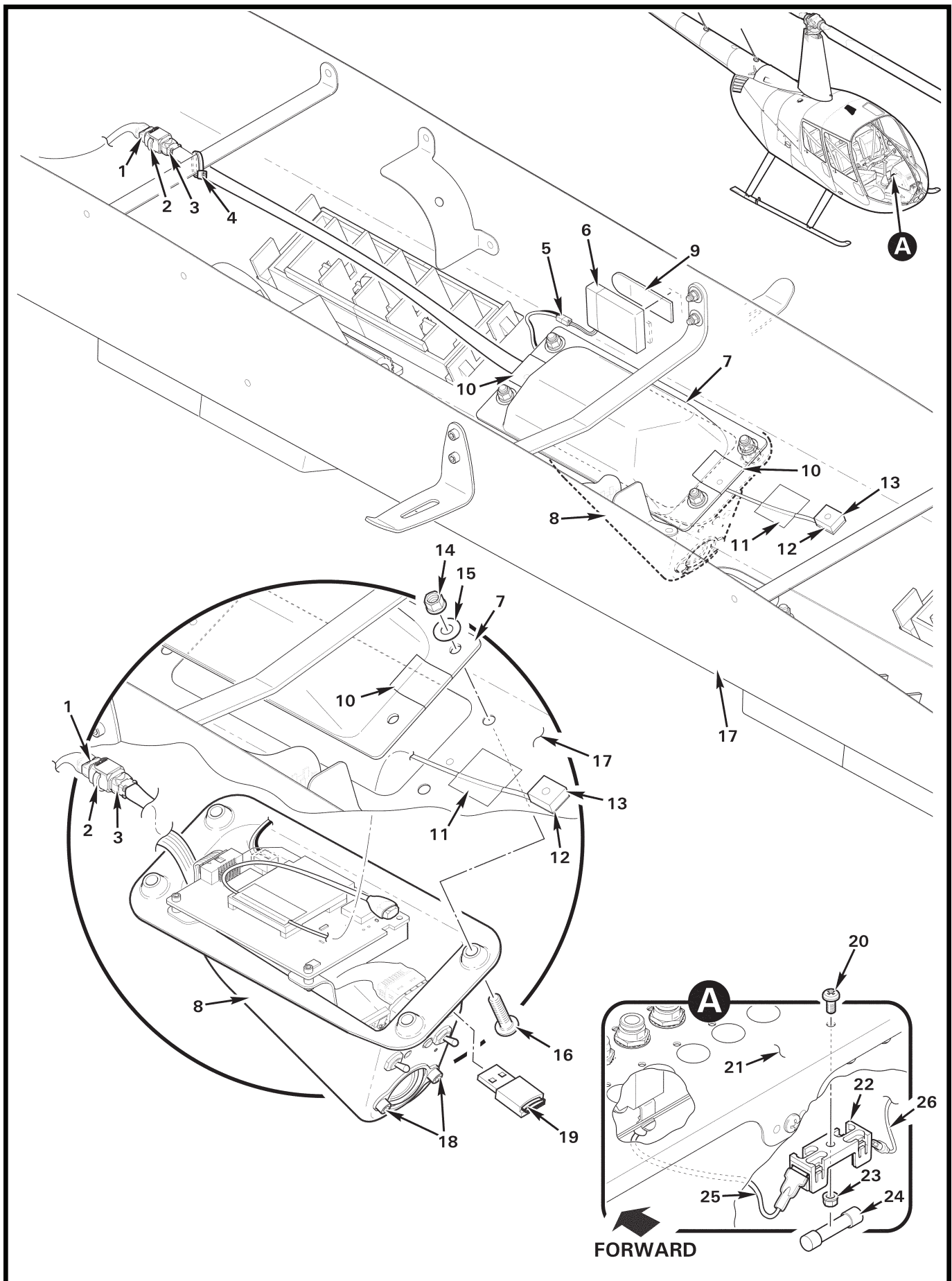
| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER     | DESCRIPTION                                                                                                                         | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|
| 96-75-1                          | D058-1          | POWER CONVERTER INSTALLATION (28V TO 14V)<br><br>Harness Assembly (Ref, Police Ship only; contact Customer Service for replacement) |                |                    |
|                                  | 2 MS27039C0807  | Screw . . . . .                                                                                                                     | X              | 1                  |
|                                  | 3 D278          | Controller Assembly - Governor (Ref)                                                                                                |                |                    |
|                                  | 4 MS3116F14-5S  | Plug . . . . .                                                                                                                      | X              | 1                  |
|                                  | 5 NAS1149FN816P | Washer . . . . .                                                                                                                    | X              | 1                  |
|                                  | 6 MS21042L08    | Nut . . . . .                                                                                                                       | X              | 1                  |
|                                  | 7 LT-71A        | Converter - Power (28- to 14-volt, 8-amp output) . . . . .                                                                          | X              | 1                  |
|                                  |                 |                                                                                                                                     |                |                    |
| NOTES                            |                 |                                                                                                                                     |                |                    |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                                                                         | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|-------------|-------------------------------------------------------------------------------------|----------------|--------------------|
|                                  |             | <b>BATTERY CHARGING POST INSTALLATION</b>                                           |                |                    |
| 96-77-1                          | A959-10     | Cap . . . . .                                                                       | X              | 2                  |
| 2                                | 2813        | Bushing . . . . .                                                                   | X              | 1                  |
| 3                                | D548-4      | Insulator . . . . .                                                                 | X              | 1                  |
| 4                                | D682-22     | Decal - " + " . . . . .                                                             | X              | 1                  |
| 5                                | D682-21     | Decal - "For Charging Only" . . . . .                                               | X              | 1                  |
| 6                                | C654-22     | Decal - "28V" . . . . .                                                             | X              | 1                  |
|                                  | C654-29     | Decal - "14V" . . . . .                                                             | X              | 1                  |
| 7                                | D548-3      | Stud . . . . .                                                                      | X              | 1                  |
| 8                                | D682-23     | Decal - " - " . . . . .                                                             | X              | 1                  |
| 9                                | AN316-4R    | Nut . . . . .                                                                       | X              | 2                  |
| 10                               | B330-13     | Palnut . . . . .                                                                    | X              | 1                  |
| 11                               | C359-2      | Console Panel (Ref)                                                                 |                |                    |
| 12                               | A780-35     | Cable Assembly (Ref)                                                                |                |                    |
| 13                               | D548-1      | Stud Assembly . . . . .                                                             | X              | 1                  |
| 14                               | B415        | Relay (Ref)                                                                         |                |                    |
| 15                               | KI-177      | Battery Charging Studs Installation Kit (Incl items 1 thru 10,<br>and 13) . . . . . | X              | 1                  |
| NOTES                            |             |                                                                                     |                |                    |



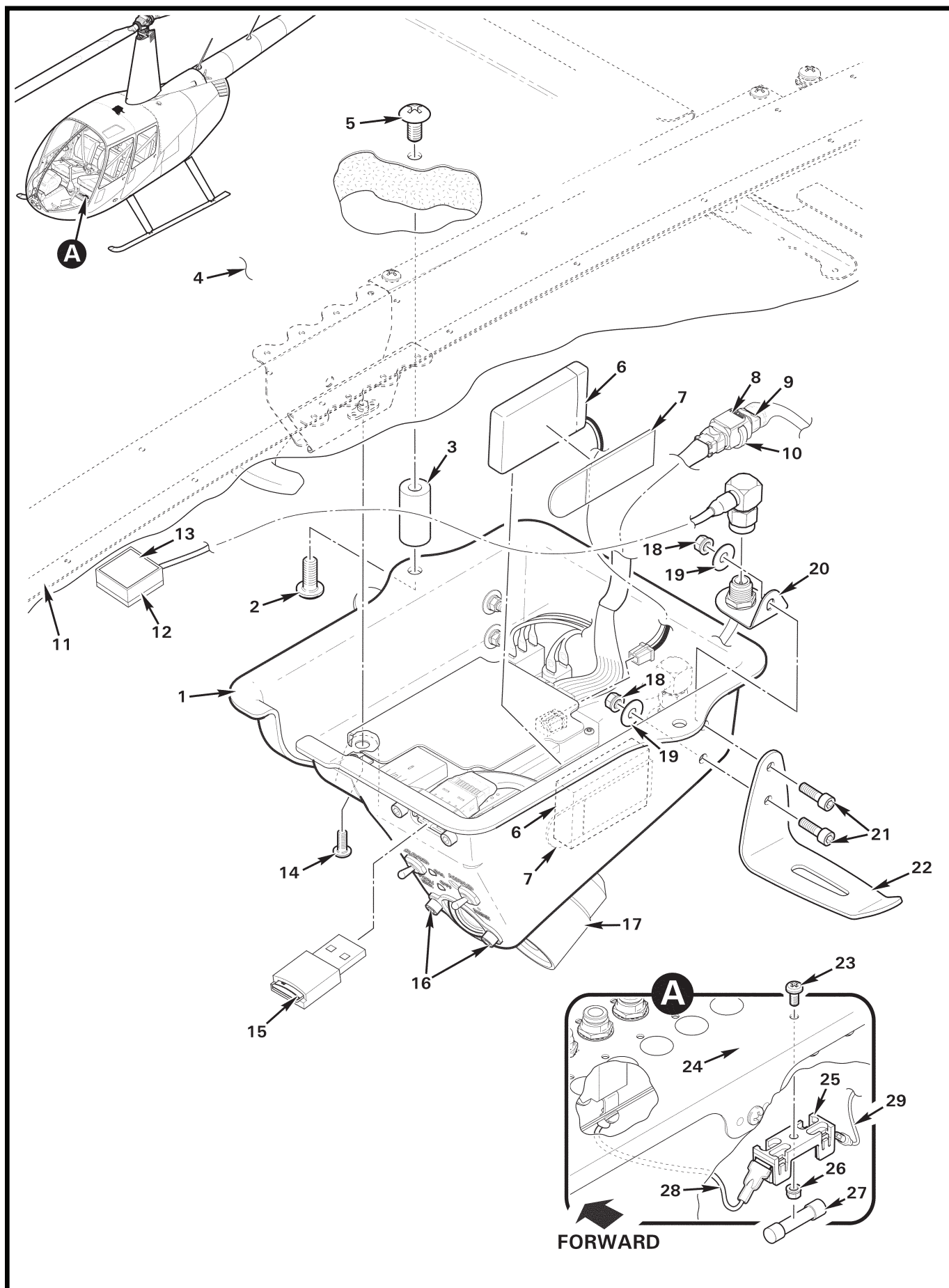
| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                       | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|---------------|-----------------------------------|----------------|--------------------|
|                                  |               | ENGINE GROUND STRAPS INSTALLATION |                |                    |
| 96-79-1                          | STD-1411*     | Nut . . . . .                     | X              | 2                  |
| 2                                | STD-160*      | Lockwasher . . . . .              | X              | 2                  |
| 3                                | C357-1        | Clip (Ref)                        |                |                    |
| 4                                | A212-2        | Strap . . . . .                   | X              | 2                  |
| 5                                | MS21042L4     | Nut . . . . .                     | X              | 2                  |
| 6                                | NAS1149F0432P | Washer . . . . .                  | X              | 4                  |
| 7                                | C015-3        | Skin (LH cabin belly; Ref)        |                |                    |
| 8                                | A780-22       | Cable Assembly (Ref)              |                |                    |
| 9                                | AN4-3A        | Bolt . . . . .                    | X              | 2                  |
| 10                               | AN4-3A        | Bolt . . . . .                    | X              | 1                  |
|                                  | AN4-4A        | Bolt . . . . .                    | X              | 1                  |
| 11                               | A780-45       | Cable Assembly . . . . .          | X              | 1                  |
| 12                               | MS3367-5-9    | Ty-Rap . . . . .                  | X              | 2                  |
| 13                               | AN4-4A        | Bolt . . . . .                    | X              | 1                  |
| NOTES * Lycoming part no.        |               |                                   |                |                    |



| FIGURE<br>AND<br>INDEX<br>NUMBER                                              | PART NUMBER     | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|-------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|
|                                                                               |                 | <b>COCKPIT CAMERA INSTALLATION WITH<br/>AIR CONDITIONING</b>                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                    |
| 96-81-1                                                                       | D269-6          | Receptacle (Ref; includes [6] M39029/57-354 sockets.<br>Included with C859* main wire harness assembly.)                                                                                                                                                                                                                                                                                                                                                                                               |                |                    |
| 2                                                                             | MS3367-4-9      | Ty-Rap (locks connector) . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | X              | 1                  |
| 3                                                                             | D269-5          | Plug (Incl [6] M39029/58-360 pins) . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                           | X              | 1                  |
| 4                                                                             | MS3367-4-9      | Ty-Rap . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | X              | 1                  |
| 5                                                                             | RV-10251C       | Battery Extension Harness . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | X              | 1                  |
| 6                                                                             | RV-BATT-LIPO500 | Battery (Install using item 9.) . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                              | X              | 1                  |
| 7                                                                             | F712-4          | Cover . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | X              | 1                  |
| 8                                                                             | F039-3          | Enclosure Assembly – Cockpit Camera (with A/C installed;<br>includes items 3, 5, 6, 9, 12, 13, and 18) . . . . .                                                                                                                                                                                                                                                                                                                                                                                       | X              | 1                  |
| 9                                                                             | 1024A38         | Adhesive Strip . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | X              | 1                  |
| 10                                                                            | A701-5          | Tape (wrap around fwd/aft edge of item 7) . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                    | X              | A/R                |
| 11                                                                            | A701-1          | Tape . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | X              | A/R                |
| 12                                                                            | A701-7          | Tape . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | X              | A/R                |
| 13                                                                            | F714-3          | Antenna Assembly (Install metal side down using item 12.) . .                                                                                                                                                                                                                                                                                                                                                                                                                                          | O              | 1                  |
| 14                                                                            | MS21042L08      | Nut . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | X              | 4                  |
| 15                                                                            | NAS1149FN816P   | Washer . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | X              | 4                  |
| 16                                                                            | MS27039C0809    | Screw . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | X              | 4                  |
| 17                                                                            | D796-3**        | Duct Assembly . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | X              | 1                  |
| 18                                                                            | NAS1352-04-4    | Screw . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | X              | 2                  |
| 19                                                                            | F714-4          | Flash Drive Assembly . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | X              | 1                  |
| 20                                                                            | MS35206-227     | Screw . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | X              | 1                  |
| 21                                                                            | C490            | Panel Assembly – Circuit Breaker ((Ref)                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                    |
| 22                                                                            | D262-1          | Fuseblock . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | X              | 1                  |
| 23                                                                            | MS21042L06      | Nut . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | X              | 1                  |
| 24                                                                            | AGV-5-R         | Fuse (5 amp) . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | X              | 1                  |
| 25                                                                            | -3078           | Wire (Ref)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                    |
| 26                                                                            | -3079           | Wire (Ref)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                    |
|                                                                               |                 | * * *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                    |
| 27                                                                            | KI-271-6        | R44-series & R66, (with A/C) Cockpit Camera Installation<br>Kit Instructions (Kit replaces existing air conditioning duct<br>assembly with air conditioning duct assembly containing<br>camera & antenna, on helicopters equipped with air<br>conditioning & factory-installed cockpit camera provisions.<br>KI-271-6A is eligible for installation on R44II S/N 14412 &<br>subsequent, and Cadet S/N 30071 & subsequent. KI-271-6B<br>is eligible for installation on R66 S/N 1007 and subsequent.) . | X              | A/R                |
| NOTES * Please specify color. <div style="text-align: right;">Continues</div> |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |                    |

| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|
| 96-81-28                         | KI-275-4    | <p>COCKPIT CAMERA INSTALLATION WITH<br/>AIR CONDITIONING (Cont'd)</p> <p>R44-series (with A/C) Cockpit Camera Installation Kit Instructions (Eligible for installation on R44 II S/N 14411 &amp; prior, and Cadet S/N 30070 &amp; prior, with air conditioning. If helicopter is currently equipped with D796-1 air conditioning duct assembly, KI-278-2 must be installed congruently. Kit replaces existing air conditioning duct assembly with air conditioning duct assembly containing camera &amp; antenna, and provides instructions for installing required wiring, including splicing camera audio wire with copilot headset audio wires.) . . . . .</p> | X              | A/R                |
| NOTES                            |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                    |

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| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER       | DESCRIPTION                                                                                                                                                              | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|
| 96-83-1                          | F039-2            | COCKPIT CAMERA INSTALLATION WITHOUT<br>AIR CONDITIONING<br>Enclosure Assembly – Cockpit Camera (without A/C<br>installed; includes items 6 thru 8, 16 thru 22) . . . . . | X              | 1                  |
|                                  | 2 MS27039C0806    | Screw . . . . .                                                                                                                                                          | X              | 4                  |
|                                  | 3 C710-3          | Spacer . . . . .                                                                                                                                                         | X              | 2                  |
|                                  | 4 F273-1          | Roof (Ref; see Figure 33-13)                                                                                                                                             |                |                    |
|                                  | 5 AN526C832R6     | Screw . . . . .                                                                                                                                                          | X              | 2                  |
|                                  | 6 RV-BATT-LIPO500 | Battery (Install using item 7) . . . . .                                                                                                                                 | X              | 1                  |
|                                  | 7 1024A38         | Adhesive Strip . . . . .                                                                                                                                                 | X              | 1                  |
|                                  | 8 D269-5          | Plug (Incl [6] M39029/58-360 pins) . . . . .                                                                                                                             | X              | 1                  |
|                                  | 9 D269-6          | Receptacle (Ref; includes [6] M39029/57-354 sockets.<br>Included with C859* main wire harness assembly.)                                                                 |                |                    |
|                                  | 10 MS3367-4-9     | Ty-Rap (lock connector) . . . . .                                                                                                                                        | X              | 1                  |
|                                  | 11 F238           | Support (Ref)                                                                                                                                                            |                |                    |
|                                  | 12 F714-2         | Antenna Assembly (Install metal side down using item 13.) . .                                                                                                            | O              | 1                  |
|                                  | 13 A701-7         | Tape . . . . .                                                                                                                                                           | X              | A/R                |
|                                  | 14 MS35206-232    | Screw . . . . .                                                                                                                                                          | X              | 1                  |
|                                  | 15 F714-4         | Flash Drive Assembly . . . . .                                                                                                                                           | X              | 1                  |
|                                  | 16 NAS1352-04-4   | Screw . . . . .                                                                                                                                                          | X              | 2                  |
|                                  | 17 D606-1         | Spotlight (Ref. See Figure 33-15)                                                                                                                                        |                |                    |
|                                  | 18 MS21042L04     | Nut . . . . .                                                                                                                                                            | X              | 2                  |
|                                  | 19 NAS1149FN416P  | Washer . . . . .                                                                                                                                                         | X              | 2                  |
|                                  | 20 F713-7         | Angle . . . . .                                                                                                                                                          | X              | 1                  |
|                                  | 21 NAS1352-04-3   | Screw . . . . .                                                                                                                                                          | X              | 2                  |
|                                  | 22 A752-1         | Angle . . . . .                                                                                                                                                          | X              | 1                  |
|                                  | 23 MS35206-227    | Screw . . . . .                                                                                                                                                          | X              | 1                  |
|                                  | 24 C490-18        | Panel Assembly – Circuit Breaker ((Ref)                                                                                                                                  |                |                    |
|                                  | 25 D262-1         | Fuseblock . . . . .                                                                                                                                                      | X              | 1                  |
|                                  | 26 MS21042L06     | Nut . . . . .                                                                                                                                                            | X              | 1                  |
|                                  | 27 AGV-5-R        | Fuse (5 amp) . . . . .                                                                                                                                                   | X              | 1                  |
|                                  | 28 -3078          | Wire (Ref)                                                                                                                                                               |                |                    |
|                                  | 29 -3079          | Wire (Ref)                                                                                                                                                               |                |                    |
| NOTES                            |                   |                                                                                                                                                                          |                |                    |
| Continues                        |                   |                                                                                                                                                                          |                |                    |

| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|
|                                  |             | <p align="center">COCKPIT CAMERA INSTALLATION WITHOUT<br/>AIR CONDITIONING (Cont'd)</p> <p align="center">* * *</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                    |
| 96-83-30                         | KI-271-2    | R44-series and R66 Cockpit Camera Installation Kit Instructions (Eligible for installation on R44 S/N 2025 & subsequent, R44 II S/N & subsequent, Cadet S/N 30071 & subsequent, and R66 S/N 1007 & subsequent, without (optional) air conditioning. Installs cockpit camera & antenna on helicopters equipped with factory-installed cockpit camera provisions.) . . . . .                                                                                                                                                                                                                     | X              | A/R                |
| 31                               | KI-275-2    | R44-series (28V) Cockpit Camera Installation Kit Instructions (Eligible for installation on R44 S/N 2421 to 2624, Raven II S/N 14411 & prior, and Cadet S/N 30070 & prior, without (optional) air conditioning. Additionally, R44 S/N 2460 & prior may be eligible for this installation , with helicopter electrical system voltage verification. Refer to KI-275-6 for helicopters with (14V) electrical systems. Kit provides instructions for installation cockpit camera, antenna, and required wiring, including splicing camera audio wire with copilot headset audio wires.) . . . . . | X              | A/R                |
| 32                               | KI-275-6    | R44-series (14V) Cockpit Camera Installation Kit Instructions (Eligible for installation on R44 (14V) S/N 2420 & prior, with helicopter electrical system voltage verification. Refer to KI-275-2 for helicopters with (28V) electrical system. Kit provides instructions for installing cockpit camera, antenna, and required wiring, including splicing camera audio wire with copilot headset audio wires.) . . . . .                                                                                                                                                                       | X              | A/R                |
| NOTES                            |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                    |