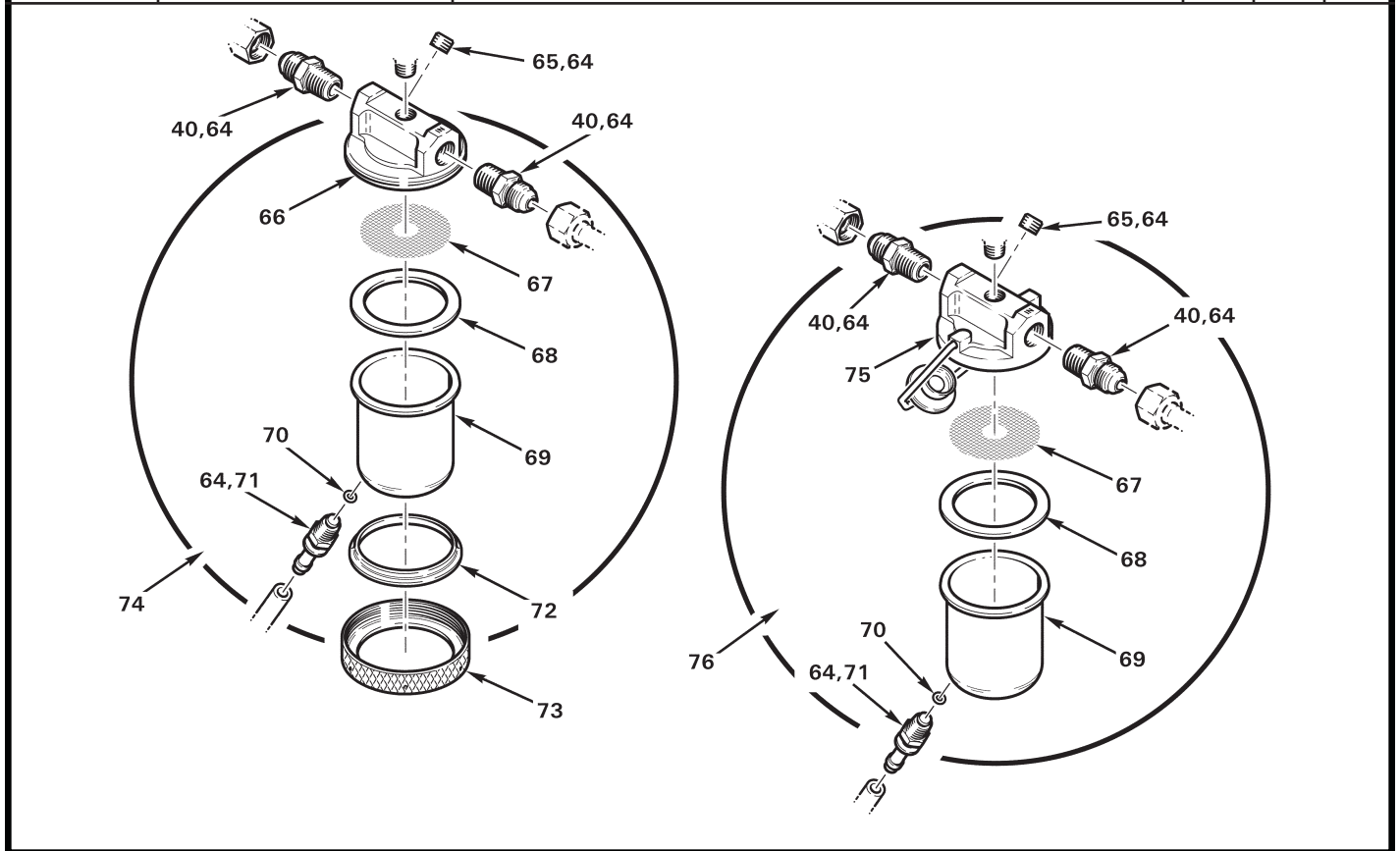
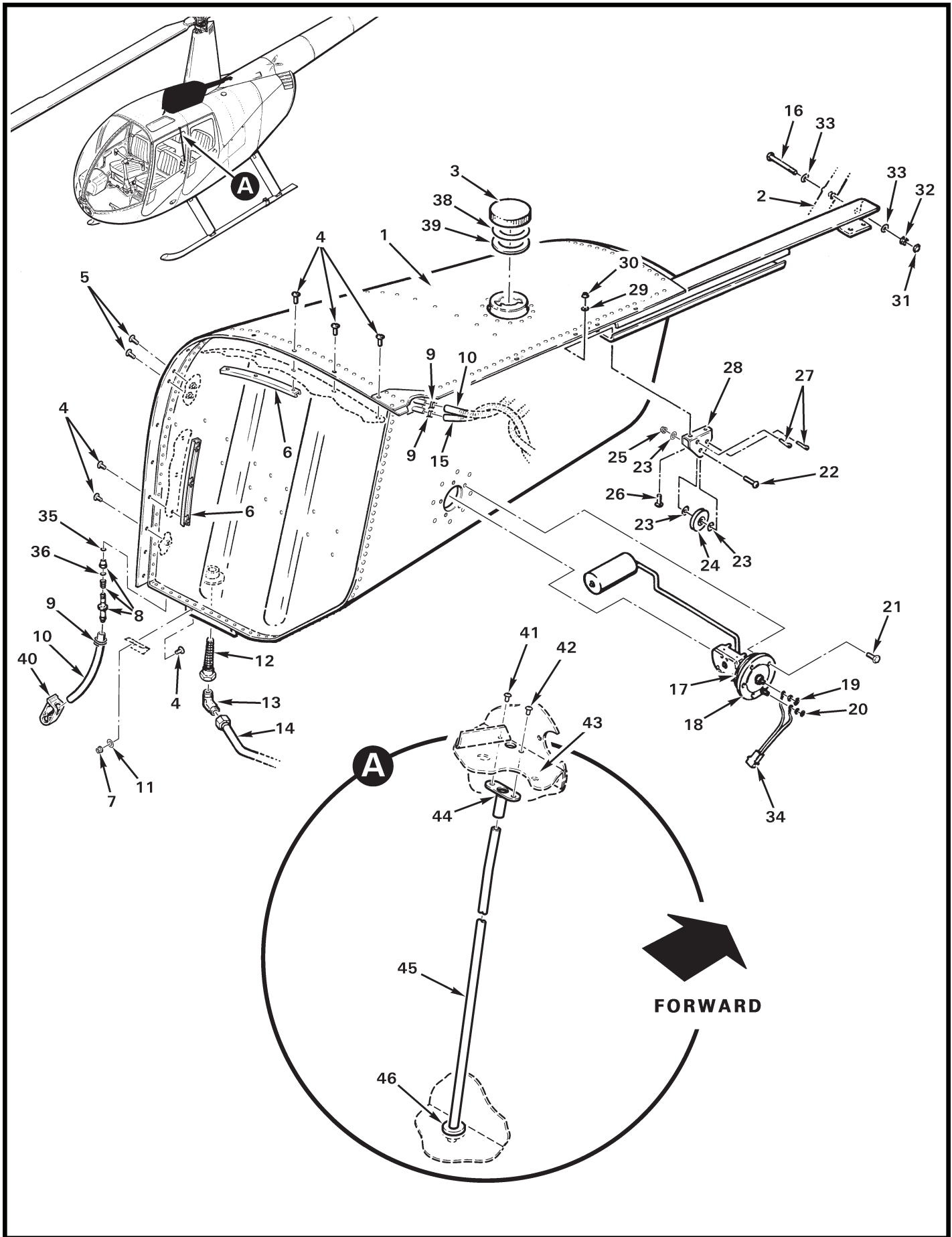


| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|---|---------------|---|-------------|----------------|--------------|
| FUEL SYSTEM - MAIN TANK INSTALLATION | | | | | |
| 8-1-1 | B408-2 | Spring | X | | 2 |
| 2 | B408-1 | Spring | X | | 1 |
| 3 | A729-7 | Tube | X | | 2 |
| 4 | A729-17 | Tube | X | | 1 |
| 5 | MS21042L08 | Nut | X | | 15 |
| 6 | NAS1149FN816P | Washer | X | | 5 |
| 7 | MS21919WDG4 | Clamp | X | | 2 |
| 8 | MS27039C0806 | Screw | X | | 4 |
| 9 | C731-1 | Vent Line | X | | 2 |
| 10 | MS20995C32 | 0.032 in. dia Safety Wire | X | | A/R |
| 11 | D044-1 | Aux Fuel Tank (Ref, see Figure 8-5) | | | |
| 12 | MS20426AD3 | Rivet | X | | A/R |
| 13 | A689-6 | Cap Assembly (Incl items 14 and 15; unpainted) | X | | 1 |
| | R7295 | Cap Assembly (Incl items 14 and 15; painted white) | X | | 1 |
| 14 | A141-38 | Washer (plastic) | X | | 1 |
| 15 | A689-7 | Gasket (black rubber) | X | | 1 |
| 16 | C010-3 | Main Fuel Tank Assembly (Includes C028-1 tank assembly and items 3 [1], 4, 13, 19 thru 27, 38, 40, 56 thru 58, 60, and 64.) | X | | 1 |
| | C028-1 | Fuel Tank Assembly (tank only) | X | | 1 |
| 17 | MS27039C0807 | Screw | X | | 17 |
| 18 | MS21069L08 | Nutplate | X | | 6 |
| 19 | B289-1 | Bolt (Incl item 20) | X | | 5 |
| 20 | 5-108 | O-Ring | X | | 6 |
| 21 | - | Nut (small) | O | | 1 |
| 22 | B330-5 | Palnut | X | | 1 |
| 23 | B330-6 | Palnut | X | | 1 |
| 24 | - | Nut (large) | O | | 1 |
| 25 | C550-1 | Sender (Incl items 21, 24 and 26) | X | | 1 |
| 26 | 15-423 | Gasket | X | | 1 |
| 27 | C049-11 | Wire Harness Assembly (includes terminals, wire, connector and spirap as shown) | X | | 1 |
| 28 | A738-11 | Gang Channel (Ref) | X | | 1 |
| 29 | MS27039C0808 | Screw | X | | 2 |
| 30 | NAS1149F0463P | Washer | X | | 3 |
| 31 | MS21042L4 | Nut | X | | 3 |
| (Cont'd) | | | | | |

| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|---------------|---|-------------|----------------|--------------|
| | | FUEL SYSTEM - MAIN TANK INSTALLATION (Cont'd) | | | |
| 8-1-32 | C020-1 | Upper Frame (Ref) | | | |
| 33 | NAS6604-2 | Bolt | X | | 2 |
| 34 | NAS1149F0432P | Washer | X | | 2 |
| 35 | C726-7 | Fuel Return Line Assembly (Ref, ship S/N 10001 and higher. See Figure 4-31J.) | | | |
| 36 | MS20825-6D* | Tee (Ref, ship S/N 10001 and higher. See Figure 4-31J.) | | | |
| 37 | C726-1 | Line Assembly | X | | 1 |
| 38 | B254-1* | Strainer | X | | 2 |
| 39 | MS20822-6D* | Elbow | X | | 1 |
| 40 | AN816-6D* | Nipple | X | | 4 |
| 41 | MS27039C0805 | Screw | X | | A/R |
| 42 | A454-1 | Support | X | | 1 |
| 43 | NAS1149FN832P | Washer | X | | 9 |
| 44 | C726-2 | Line Assembly | X | | 1 |
| 45 | A455-1* | Plug | X | | 1 |
| 46 | C670-1 | Valve - Fuel Flow (see Figure 8-9) | X | | 1 |
| 47 | NAS620-4 | Washer | X | | 4 |
| 48 | AN500A4-3 | Screw | X | | 4 |
| 49 | MS20995C20 | 0.020 in. dia Safety Wire | X | | A/R |
| 50 | C798-3 | Bracket (supersedes C798-2) | X | | 1 |
| 51 | A666-1 | Gascolator (Ref; see Figure 8-3) | | | |
| 52 | C741-1 | Line Assembly | X | | 1 |
| 53 | A728-2 | Stiffener | X | | 1 |
| 54 | A729-8 | Tube | X | | 1 |
| 55 | NAS557-8A | Grommet | X | | 1 |
| 56 | A521-1 | Low Fuel Switch Assembly (seal under nut with B270-1) | X | | 1 |
| 57 | MS29512-5 | Gasket | X | | 1 |
| 58 | MS24400-5D | Nut (or AN924-5D) | X | | 1 |
| 59 | A215-006 | O-Ring | X | | 1 |
| 60 | C761-1* | Drain Valve - Main Tank | X | | 1 |
| 61 | B283-3 | Hose Assembly | X | | 1 |
| 62 | MS20823-6D* | Elbow (or AN823-6D) | X | | 1 |
| 63 | 61C22451** | Carburetor (Ref) | | | |
| 64 | B270-6 | Sealant (4-oz tube) | X | | A/R |
| | | *Install using item 64. **Lycoming part no. | | | |
| | | (Cont'd) | | | |

| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|--------------|--|-------------|----------------|--------------|
| | | FUEL SYSTEM - MAIN TANK INSTALLATION (Cont'd) | | | |
| | | * * * | | | |
| 8-3- 65 | MS27769D2* | Plug | O | | 1 |
| 66 | B402-3 | Top | O | | 1 |
| 67 | 10543-2 | Screen | X | | 1 |
| 68 | 10536-1 | Gasket (supersedes 10536) | X | | 1 |
| 69 | 10541 | Bowl | O | | 1 |
| 70 | A215-006 | O-Ring | X | | 1 |
| 71 | A761-1* | Drain Valve - Gascolator | X | | 1 |
| | CAV-110H-4** | Drain Valve - Gascolator | O | | 1 |
| 72 | B416-2 | Ring | O | | 1 |
| 73 | B416-1 | Collar | O | | 1 |
| 74 | A666-1 | Gascolator Assy (Rev M and later; supersedes Rev L and prior. Includes items 65 thru 73.) | X | | 1 |
| 75 | - | Top (Ref; superseded) | | | |
| 76 | - | Gascolator Assy (Ref; superseded) | | | |
| | | * Install using item 64. | | | |
| | | ** Alternate Saf-Air part no.; installed in A666-1 Gascolator Assy. Order A761-1 when replacing valve. | | | |

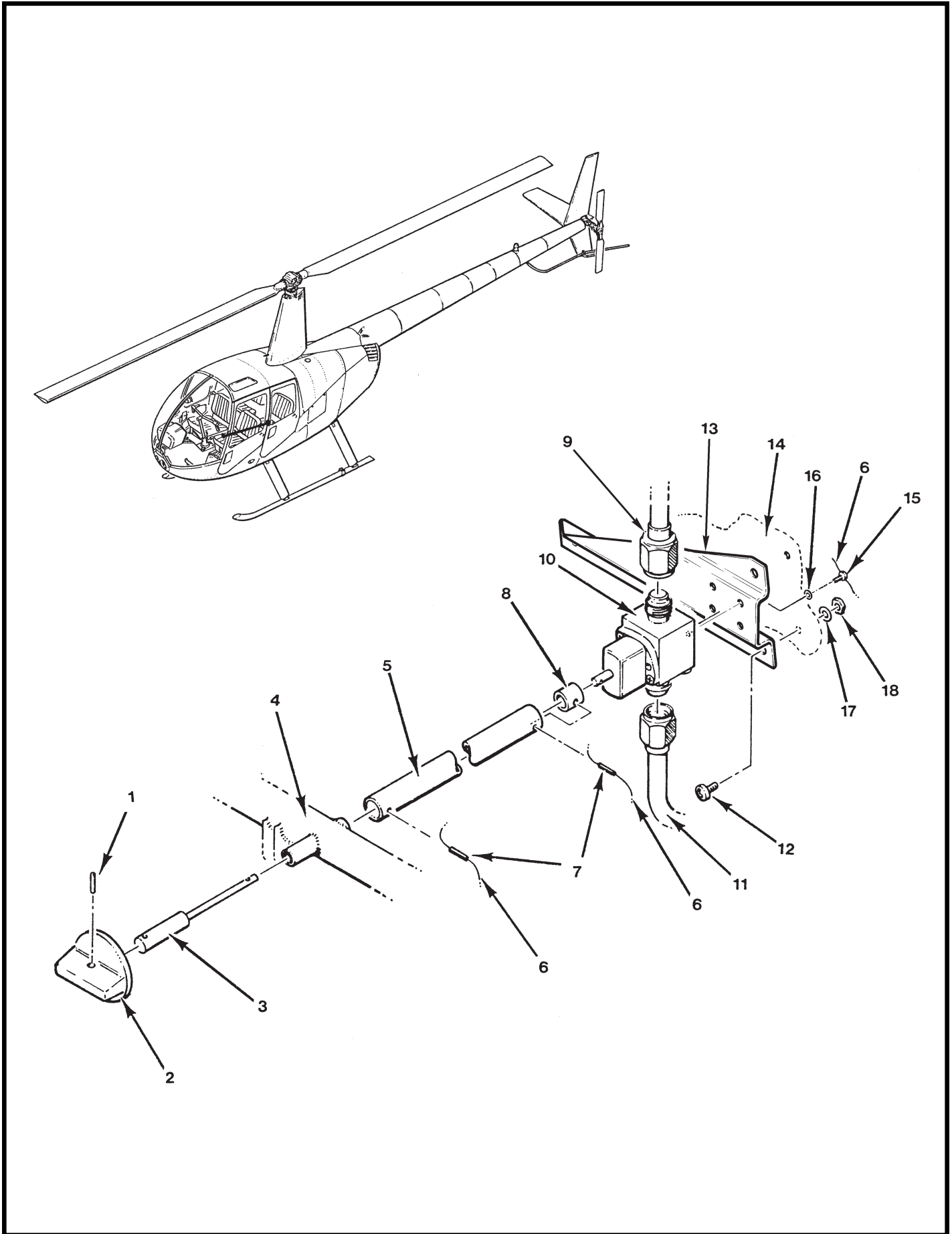




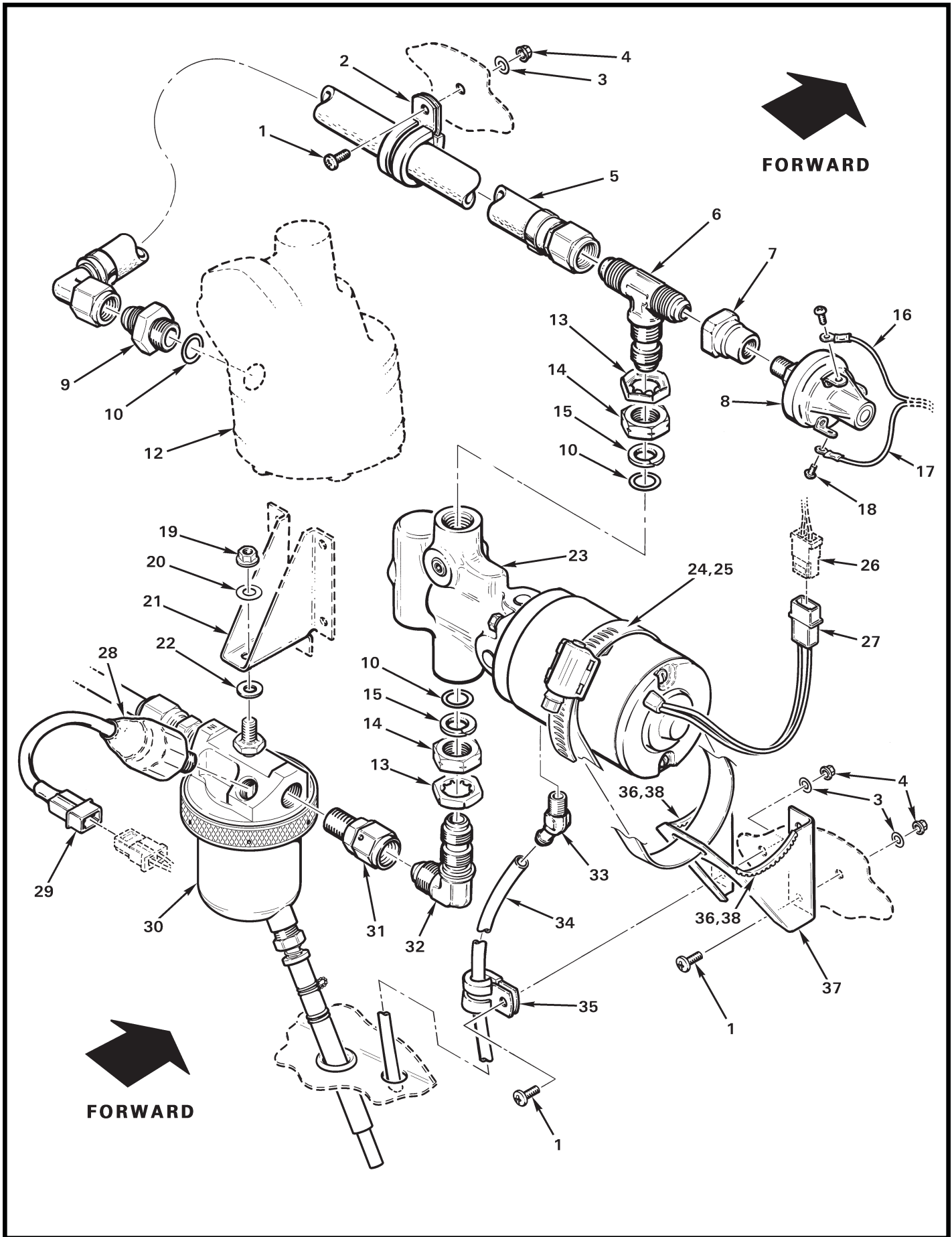
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|---------------|--|-------------|----------------|--------------|
| | | FUEL SYSTEM - AUX TANK ASSEMBLY | | | |
| 8-5-1 | D043-3 | Aux Fuel Tank Assembly (Includes D044-1 tank assembly; items 3, 8, 10, 12, 13, 18 thru 26, 28 thru 30, 34, and 40) | X | | 1 |
| | D044-1 | Aux Fuel Tank Assembly (tank only) | X | | 1 |
| 2 | C020 | Upper Frame Assembly (Ref) | | | |
| 3 | A689-6 | Cap Assembly (Incl items 38 and 39; unpainted) | X | | 1 |
| | R7295 | Cap Assembly (Incl items 38 and 39; painted white) | X | | 1 |
| 4 | MS27039C0807 | Screw | X | | 13 |
| 5 | MS27039C0808 | Screw | X | | 2 |
| 6 | A738-12 | Gang Channel | X | | 2 |
| 7 | MS21042L08 | Nut | X | | 3 |
| 8 | A761-1 | Drain Valve (install using item 37) | X | | 1 |
| 9 | MS20995C32 | 0.032 in. dia Safety Wire | X | | A/R |
| 10 | A729-7 | Tube* (Ref; see Figure 8-1) | | | |
| 11 | NAS1149FN816P | Washer | X | | 2 |
| 12 | B254-1 | Strainer Assembly (install using item 37) | X | | 1 |
| 13 | MS20822-6D | Elbow (or AN822-6D; install using item 37) | X | | 1 |
| 14 | C726-1 | Line Assembly | X | | 1 |
| 15 | A729-17 | Tube* (Ref; see Figure 8-1) | | | |
| 16 | NAS6604-22 | Bolt | X | | 1 |
| 17 | 15-423 | Gasket - Fuel Sender. | X | | 1 |
| 18 | A550-1 | Sender (Incl item 17) | X | | 1 |
| 19 | B330-6 | Palnut | X | | 1 |
| 20 | B330-5 | Palnut | X | | 1 |
| 21 | B289-1 | Bolt | X | | 5 |
| 22 | MS27039C1-11 | Screw | X | | 1 |
| 23 | NAS1149F0332P | Washer | X | | 3 |
| 24 | MS24566-1B | Pulley (supersedes AN210-1A). | X | | 1 |
| 25 | MS21042L3 | Nut | X | | 1 |
| 26 | MS35206-228 | Screw | X | | 2 |
| 27 | MS24665-134 | Cotter Pin | X | | 2 |
| 28 | B157-1 | Mount | X | | 1 |
| 29 | NAS620-6 | Washer | X | | 2 |
| | | * See Figure 8-1 for vent tube installation. (Cont'd) | | | |

| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|---|----------------|---------------------------------|----------------|----------------------|--------------------|
| FUEL SYSTEM - AUX TANK ASSEMBLY (Cont'd) | | | | | |
| 8-5-30 | MS21042L06 | Nut | X | | 2 |
| 31 | B330-13 | Palnut | X | | 1 |
| 32 | MS21042L4 | Nut | X | | 1 |
| 33 | NAS1149F0432P | Washer | X | | 2 |
| 34 | B049-7 | Harness Assembly | X | | 1 |
| 35 | A215-006 | O-Ring | X | | 1 |
| 36 | 5-108 | O-Ring | X | | 1 |
| 37 | B270-6 | Sealant (4-oz tube) | X | | A/R |
| 38 | A141-38 | Washer (plastic) | X | | 1 |
| 39 | A689-7 | Gasket (black rubber) | X | | 1 |
| 40 | D663-1 | Clamp | X | | 1 |
| 41 | MS20615-4M3.5S | Rivet (inboard rivet) | X | | 1 |
| 42 | MS20615-4M3S | Rivet | X | | 1 |
| 43 | C234 | Firewall - Horizontal (Ref) | | | |
| 44 | A456-1* | Drain Assembly | X | | 1 |
| 45 | D128-1 | Tube | X | | 1 |
| 46 | MS35489-9 | Grommet | X | | 1 |
| *Apply B270-1 sealant between drain assembly and firewall, and around joint between items 44 and 45. | | | | | |

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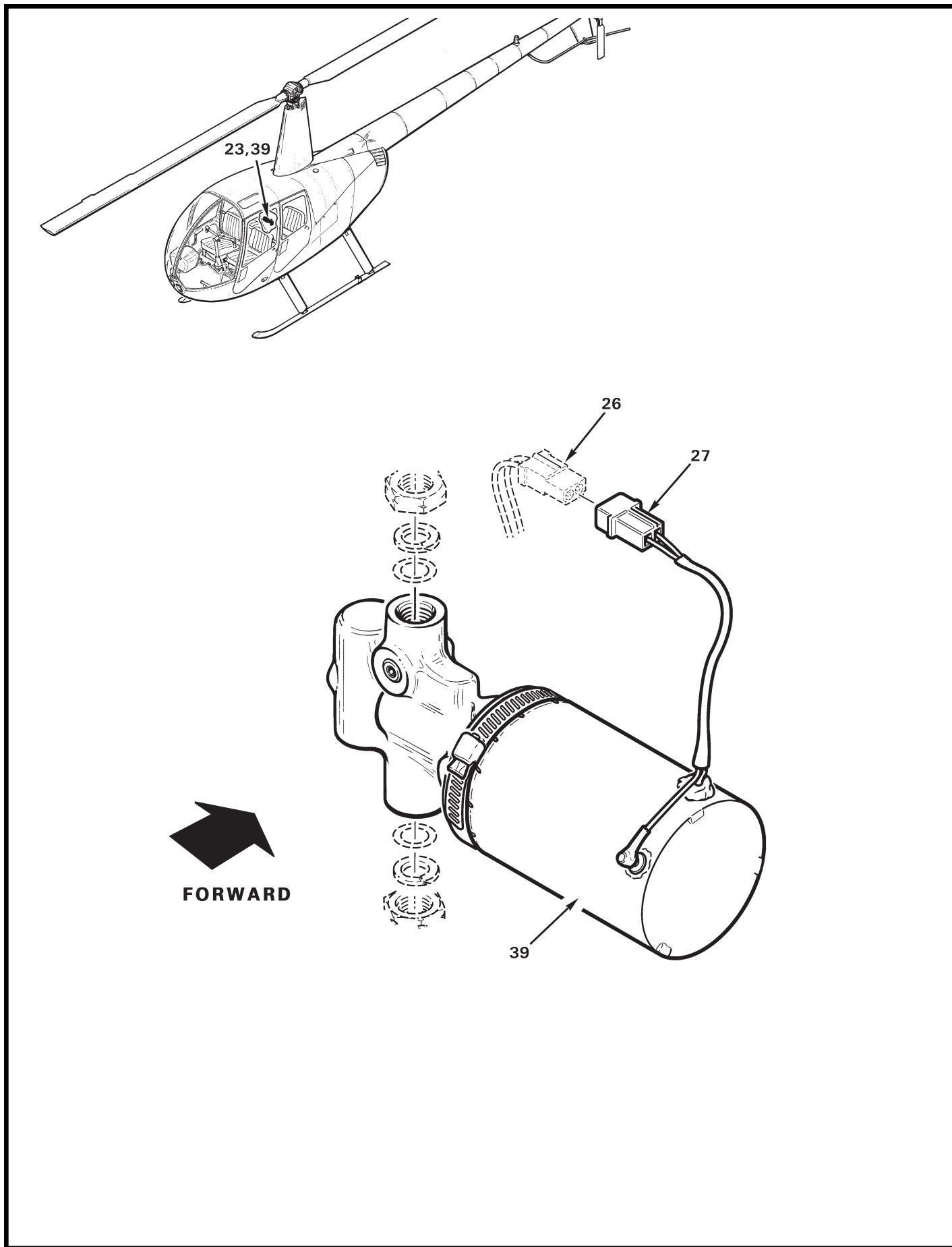
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|----------------------------------|---------------|---------------------------------------|----------------|----------------------|--------------------|
| FUEL VALVE INSTALLATION | | | | | |
| 8-9-1 | MS16562-5 | Roll Pin | X | | 1 |
| 2 | C499-1 | Knob | X | | 1 |
| 3 | C791-3 | Shaft | X | | 1 |
| 4 | C348-1 | Anchor | X | | 1 |
| 5 | C791-2 | Tube | X | | 1 |
| 6 | MS20995C32 | 0.032 in. dia Safety Wire | X | | A/R |
| 7 | MS16562-16 | Roll Pin | X | | 2 |
| 8 | C791-4 | Spacer | X | | 1 |
| 9 | C726-2 | Fuel Line Assembly | X | | 1 |
| 10 | C670-1 | Fuel Valve | X | | 1 |
| 11 | C741-1 | Fuel Line Assembly | X | | 1 |
| 12 | MS27039C0805 | Screw | X | | 3 |
| 13 | C798-3 | Bracket (supersedes C798-2) | X | | 1 |
| 14 | - | Vertical Firewall (Ref) | | | |
| 15 | AN500A4-3 | Screw | X | | 4 |
| 16 | NAS620-4 | Washer | X | | 4 |
| 17 | NAS1149FN832P | Washer | X | | 3 |
| 18 | MS21042L08 | Nut | X | | 3 |

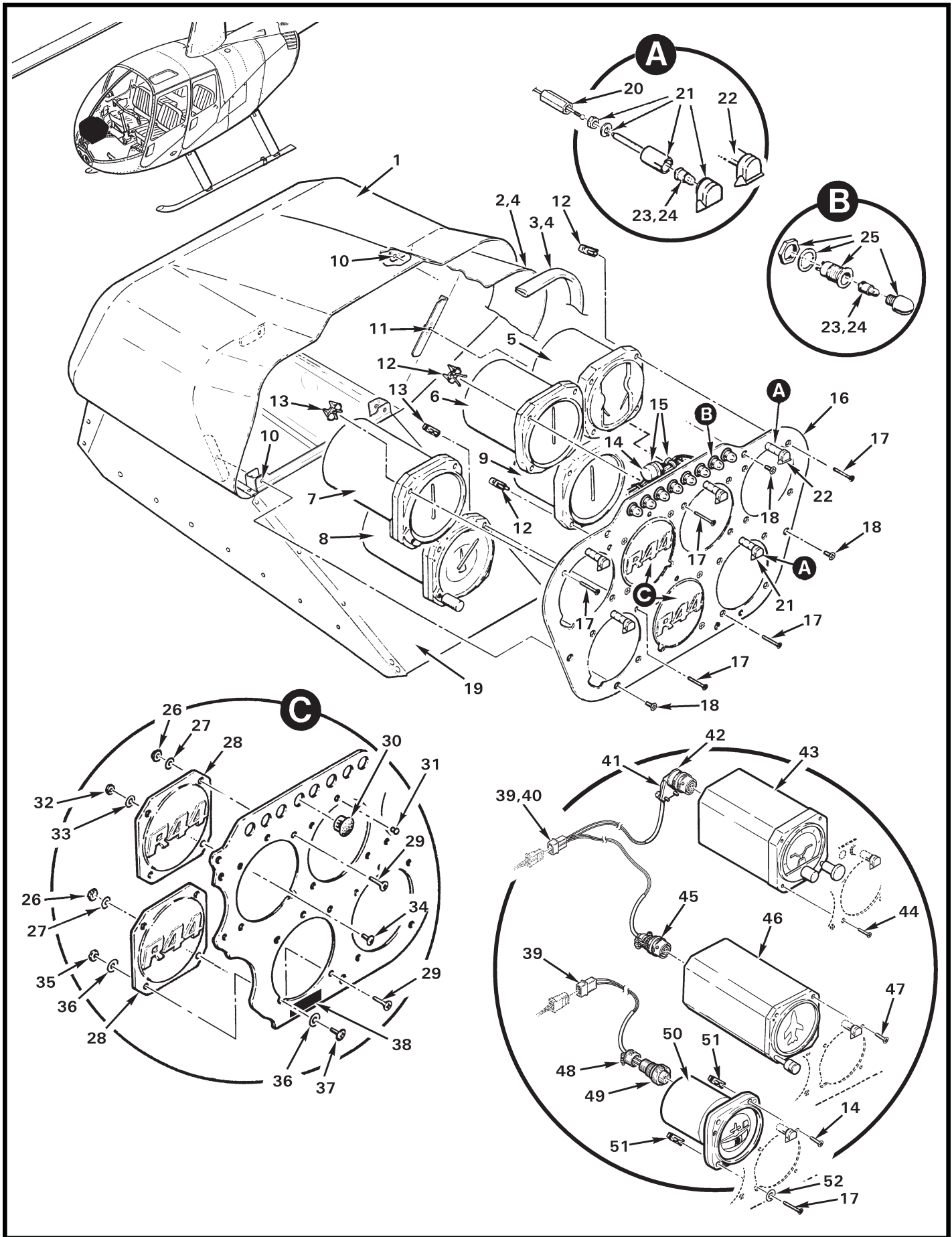


| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|---------------|--|-------------|----------------|--------------|
| | | ELECTRIC FUEL PUMP INSTALLATION* | | | |
| 8-9B-1 | MS27039C0806 | Screw | X | | 5 |
| 2 | MS21919WDG11 | Clamp (or MS21919WDG13) | X | | 1 |
| 3 | NAS1149FN816P | Washer | X | | 5 |
| 4 | MS21042L08 | Nut | X | | 5 |
| 5 | B283-3 | Hose Assembly | X | | 1 |
| 6 | AN834-6D | Tee | X | | 1 |
| 7 | D744-1 | Adapter | X | | 1 |
| 8 | B426-2 | Pressure Switch (Incl Item 18) | X | | 1 |
| 9 | MS21900D6 | Adapter | X | | 1 |
| 10 | MS29512-06 | Packing (o-ring; lubricate with item 11) | X | | 3 |
| 11 | A257-6 | Grease | X | | A/R |
| 12 | - | Fuel Pump (engine-driven; Ref) | | | |
| 13 | B330-25 | Palnut | X | | 2 |
| 14 | D452-6 | Nut | X | | 2 |
| 15 | MS28773-06 | Retainer | X | | 2 |
| 16 | C059-1542 | Wire (Ref) | | | |
| 17 | C059-1530 | Wire (Ref) | | | |
| 18 | - | Screw | O | | 2 |
| 19 | MS21042L4 | Nut (Ref) | | | |
| 20 | NAS1149F0463P | Washer (Ref) | | | |
| 21 | A454-1 | Support (Ref) | | | |
| 22 | NAS1149F0432P | Washer | X | | A/R |
| 23 | D743-1 | Pump Assembly (Incl item 27) | X | | 1 |
| | D743-2 | Pump Assembly (with shield; Ref, see Figure 8-9D) | | | |
| 24 | HTM-300 | Clamp (install using item 25 on threads) | X | | 1 |
| 25 | B270-10 | Adhesive | X | | A/R |
| 26 | B263-13 | Housing (Ref) | | | |
| 27 | B263-12 | Housing | X | | 1 |
| | B263-1 | Pin | X | | 2 |
| 28 | D745-1 | Switch Assembly - Vacuum (Incl item 29) | X | | 1 |
| 29 | B263-12 | Housing | X | | 1 |
| | B263-1 | Pin | X | | 2 |
| | | *Ship S/N 10001 and higher. (Cont'd) | | | |

| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|--|-------------|---|-------------|----------------|--------------|
| ELECTRIC FUEL PUMP INSTALLATION* (Cont'd) | | | | | |
| 8-9B-30 | A666-1 | Gascolator (Ref; see Figure 8-3) | | | |
| 31 | 916106 | Adapter | X | | 1 |
| 32 | AN833-6D | Elbow | X | | 1 |
| 33 | AN844-4D | Elbow | X | | 1 |
| 34 | A729-33 | Tube | X | | 1 |
| 35 | MS21919WDG5 | Clamp | X | | 1 |
| 36 | MS21266-1N | Grommet (install using item 38) | X | | A/R |
| 37 | D742-1 | Support (Incl item 36) | X | | 1 |
| 38 | B270-8qt | Adhesive | X | | A/R |
| * * * | | | | | |
| 8-9D-39 | D743-2 | Pump Assembly with shield (ENG/Police ships only; includes item 27) | X | | 1 |

*Ship S/N 10001 and higher.



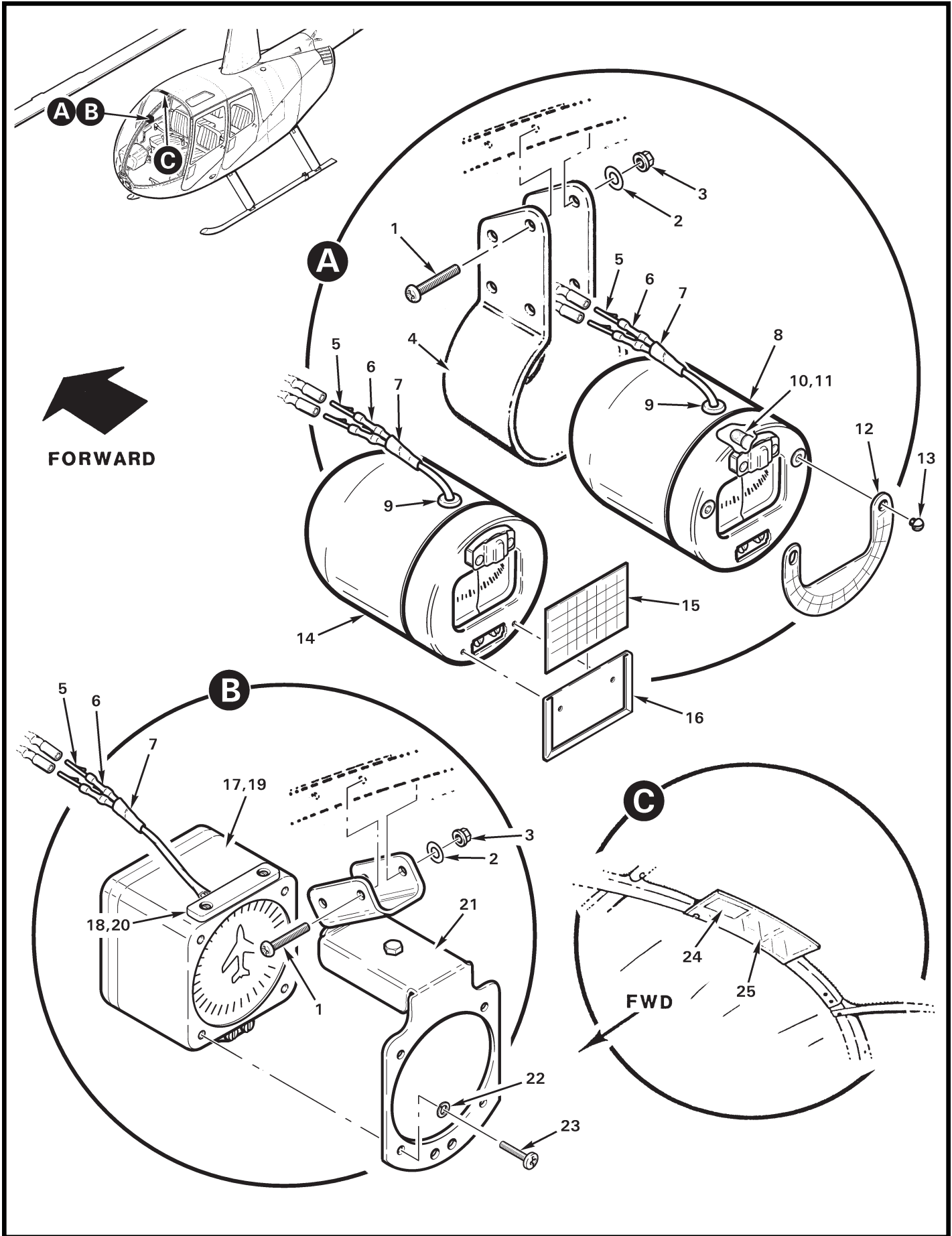


8-10 FIGURE 8-11 UPPER PANEL - SEVEN-INSTRUMENT CONSOLE Issued: JUL 2008

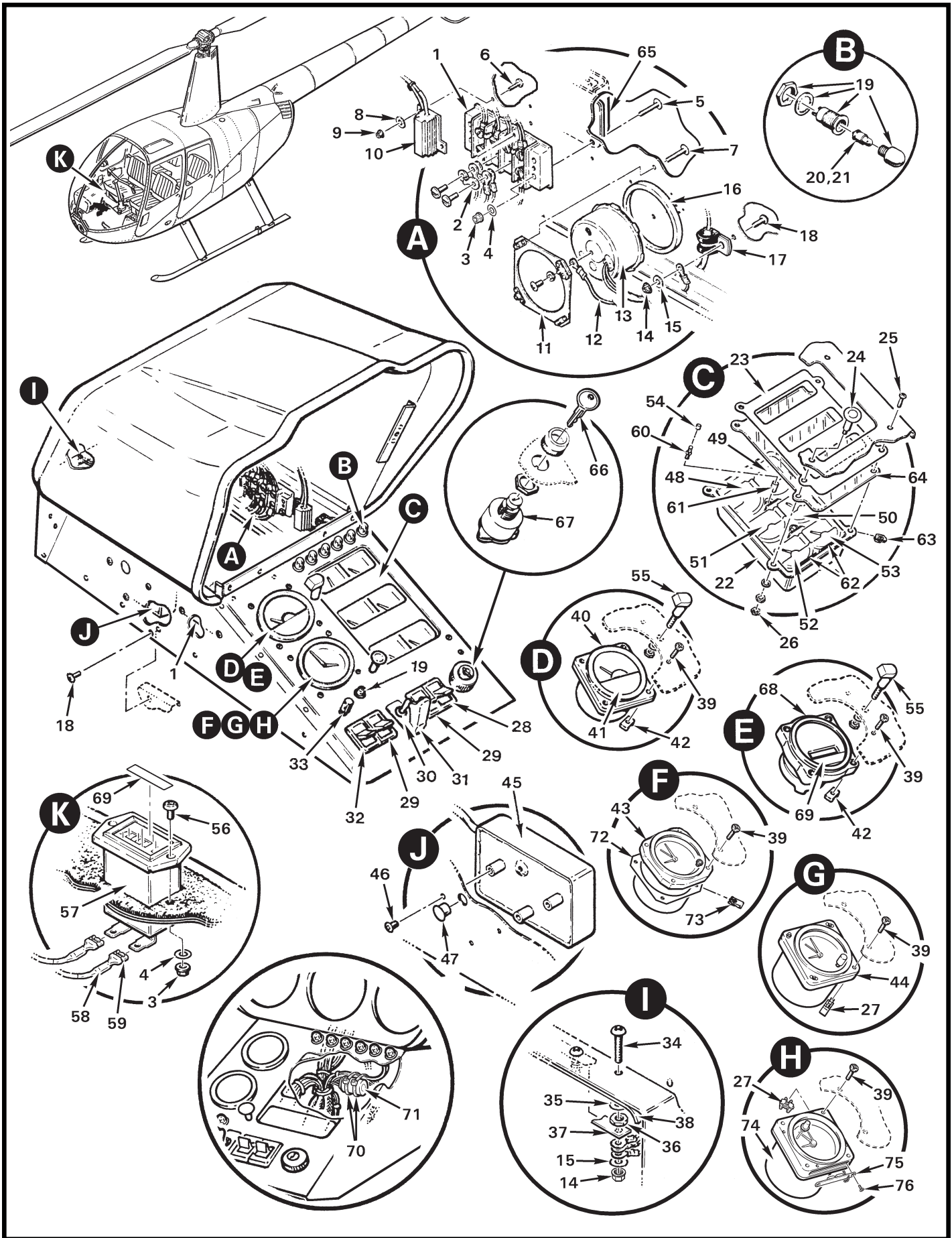
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|-------------|---|-------------|----------------|--------------|
| | | UPPER PANEL - SEVEN-INSTRUMENT CONSOLE | | | |
| 8-11-1 | B051-3* | Console Assembly (Includes items 2, 3, 10, 11, and 17; assembled as shown.) | X | | 1 |
| | B051-9** | Console Assembly (Includes items 2, 3, 10, 11, and 17; assembled as shown.) | X | | 1 |
| 2 | B051-4 | Visor Liner (install using item 4) | X | | 1 |
| 3 | A226-9 | Moulding (neoprene; install using item 4) | X | | A/R |
| 4 | B270-8qt | Adhesive | X | | A/R |
| 5 | C792-2* | Engine/Rotor Tachometer (Ref, no longer available. To replace, order C792-4.) | | | |
| | C792-4 | Engine/Rotor Tachometer | X | | 1 |
| | R9602 | Engine/Rotor Tachometer (overhauled exchange) | X | | 1 |
| 6 | C599-1 | Airspeed Indicator | X | | 1 |
| 7 | A602-1 | Rate-of-Climb Indicator | X | | 1 |
| 8 | A613-1 | Altimeter (In.-Hg) | X | | 1 |
| | A613-2 | Altimeter (Millibar, optional) | X | | 1 |
| | A613-4 | Altimeter (Metric, optional) | X | | 1 |
| 9 | A600-4* | Manifold Pressure Gauge | X | | 1 |
| | A600-6** | Manifold Pressure Gauge | X | | 1 |
| 10 | MS21071L08 | Nutplate | X | | 4 |
| 11 | MS21069L08 | Nutplate | X | | 2 |
| 12 | MS33737-15C | Nut - Instrument | X | | 12 |
| 13 | MS33737-13C | Nut - Instrument | X | | 10 |
| 14 | A655-1 | Time Delay - Low Fuel Warning | X | | 1 |
| 15 | MS3367-4-9 | Ty-Rap | X | | 3 |
| 16 | B197-1 | Face | X | | 1 |
| 17 | MS24693-S32 | Screw | X | | A/R |
| 18 | MS24694-S3 | Screw | X | | 6 |
| 19 | B051 | Face - Lower (Ref) | | | |
| 20 | B195-9 | Connector Nut | X | | A/R |
| 21 | B195-10 | Post Light (14V, includes item 23) | X | | A/R |
| | B195-11 | Post Light (28V, includes item 24) | X | | A/R |
| 22 | B195-14 | Post Light (14V, narrow beam, tach only; includes item 23) | X | | 1 |
| | B195-15 | Post Light (28V, narrow beam, tach only; includes item 24) | X | | 1 |
| 23 | B196-1 | Lamp (14-volt ships) | X | | A/R |
| 24 | B196-21 | Lamp (28-volt ships) | X | | A/R |
| | | * Ship S/N 0001 thru 9999. ** Ship S/N 10001 and higher. | | | |
| | | (Cont'd) | | | |

| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|-----------------|--|-------------|----------------|--------------|
| | | UPPER PANEL - SEVEN-INSTRUMENT CONSOLE (Cont'd) | | | |
| 8-11- 25 | B198-1 | Light - Warning (yellow; clutch actuator, main rotor temperature, main rotor chip, carbon monoxide*, starter, tail rotor chip, low fuel, and low rotor rpm. Order item 23 or 24 when replacing lamp) | X | | 8 |
| 26 | MS21042L06 | Nut | X | | A/R |
| 27 | NAS1149FN616P | Washer | X | | A/R |
| 28 | B190-3 | Cover | X | | A/R |
| 29 | MS24693-S27 | Screw | X | | A/R |
| 30 | 2633 | Hole Plug (if equipped) | X | | 1 |
| 31 | 2590 | Hole Plug | X | | A/R |
| 32 | MS21042L08 | Nut | X | | 1 |
| 33 | NAS1149FN816P | Washer | X | | 2 |
| 34 | MS27039C0806 | Screw | X | | 1 |
| 35 | MS21042L3 | Nut | X | | 1 |
| 36 | NAS1149F0332P | Washer | X | | 2 |
| 37 | MS27039C1-06 | Screw | X | | 1 |
| 38 | A743-1 | Call Letters Plate (please specify call letters) | X | | 1 |
| 39 | B263-12 | Housing (2-pin, 14-volt ships) | X | | 1 |
| | B263-1 | Pin | X | | 2 |
| 40 | B263-16 | Housing (4-pin, 28-volt ships; not shown) | X | | 1 |
| | B263-1 | Pin | X | | 2 |
| 41 | 11141L08-03B | Strain Relief | X | | 1 |
| 42 | - | Connector (supplied with item 43) | O | | 1 |
| 43 | B823-10 | Attitude Indicator (supersedes B823-1 and B823-4) | X | | 1 |
| | B823-12 | Attitude Indicator with inclinometer (supersedes B823-3 and B823-6) | X | | 1 |
| 44 | MS24693-S30 | Screw. | X | | 3 |
| 45 | - | Connector (supplied with item 46) | O | | 1 |
| 46 | B823-11 | Directional Gyro (supersedes B823-2 and B823-5) | X | | 1 |
| 47 | MS24693-S26 | Screw | X | | 3 |
| 48 | MS3057-4A | Strain Relief | X | | 1 |
| 49 | MS3106A-10SL-3S | Connector | X | | 1 |
| 50 | B329-1 | Turn Coordinator | X | | 1 |
| 51 | MS33737-12C | Instrument Nut | X | | 4 |
| 52 | A3135-017-24A | Washer (countersunk; alternate part no. A3135-017-935) | X | | 1 |
| | | * If installed. | | | |

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| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-----------------------------|---------------|---|-------------|----------------|--------------|
| COMPASS INSTALLATION | | | | | |
| 8-13-1 | AN515UB8R20 | Screw | X | | 4 |
| 2 | NAS1149DN816J | Washer | X | | 4 |
| 3 | NAS1291C08M | Nut | X | | 4 |
| 4 | C685-1 | Mount - Compass | X | | 1 |
| 5 | B263-1 | Pin | X | | 2 |
| 6 | B158-2 | Heat Shrink (0.125 in. dia, black) | X | | A/R |
| 7 | B158-3 | Heat Shrink (0.187 in. dia, black) | X | | A/R |
| 8 | A022-3 | Compass Assembly (14-volt ships. Includes items 5 thru 7, 9,10, 12, and 13.) | X | | 1 |
| | A022-4 | Compass Assembly (28-volt ships. Includes items 5 thru 7, 9 and 11 thru 13.) | X | | 1 |
| 9 | MS35489-4 | Grommet | X | | 1 |
| 10 | B196-1 | Lamp (14-volt ships) | X | | 1 |
| 11 | B196-21 | Lamp (28-volt ships) | X | | 1 |
| 12 | - | Deviation Plate (Ref) | O | | 1 |
| 13 | - | Screw | O | | 2 |
| 14 | A022 | Compass Assembly (Ref, no longer available. Superseded by item 8. For older R44s with items 15 and 16 installed.) | | | |
| 15 | PAI-DE-CARD | Deviation Card | X | | 1 |
| 16 | C23-805M | Mount - Deviation Card | X | | 1 |
| 17 | B148-2* | Compass Assembly - Vertical Card (14-volt ships. Includes items 5 thru 7, 18 and 23.) | X | | 1 |
| 18 | - | Light Bar (14-volt; Ref) | O | | 1 |
| 19 | B148-5* | Compass Assembly - Vertical Card (28-volt ships. Includes items 5 thru 7, 20 and 23.) | X | | 1 |
| 20 | PAI-28V | Light Bar (28-volt; Ref) | O | | 1 |
| 21 | B339-2 | Mount - (vertical card compass) | X | | 1 |
| 22 | MS35338-136B | Lockwasher | X | | 4 |
| 23 | - | Screw | O | | 4 |
| 24 | C23-807 | Deviation Placard (vertical card compass) | X | | 1 |
| 25 | A725-3 | Mount (Ref, see Figure 1-3) | | | |
| *Optional. | | | | | |



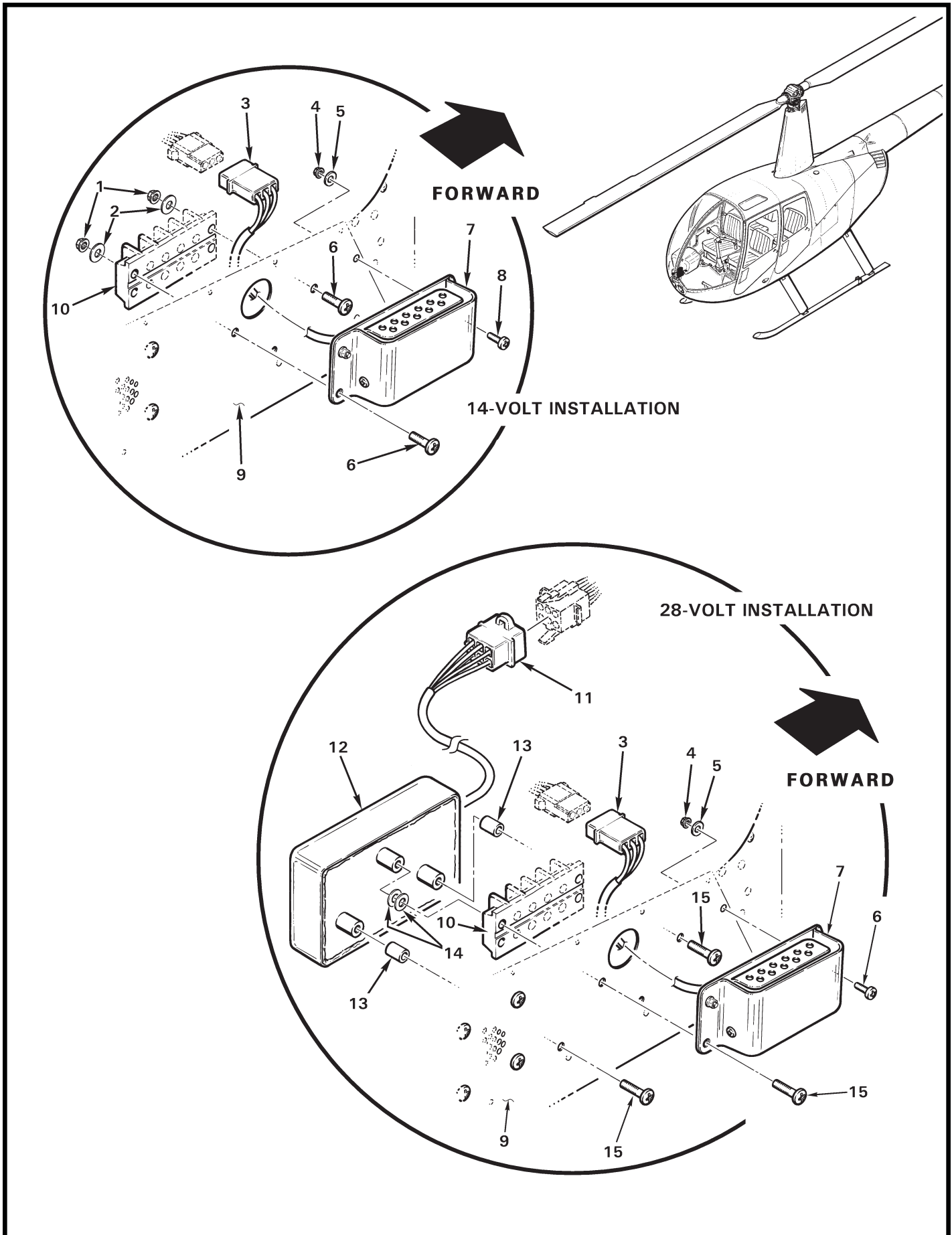
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|--|---------------|--|-------------|----------------|--------------|
| LOWER INSTRUMENT PANEL | | | | | |
| 8-15-1 | 601716-4 | Terminal Block | X | | 1 |
| 2 | 601985-2 | Jumper Tab (3 per terminal block) | X | | 1 |
| 3 | MS21042L06 | Nut | X | | 1 |
| 4 | NAS1149FN616P | Washer | X | | 1 |
| 5 | MS35206-231 | Screw | X | | 1 |
| 6 | MS35206-215 | Screw | X | | 1 |
| 7 | MS27039C0810 | Screw | X | | 1 |
| 8 | NAS1149FN416P | Washer | X | | 1 |
| 9 | MS21042L04 | Nut | X | | 1 |
| 10 | RH25 | Resistor (1.5Ω, 14-volt ships only) | X | | 1 |
| 11 | A479-1 | Plate | X | | 1 |
| 12 | B320-79 | Wire - Jumper | O | | 1 |
| 13 | B320-1 | Horn - Low RPM Warning (14-volt ships) | X | | 1 |
| | B320-3 | Horn - Low RPM Warning (28-volt ships) | X | | 1 |
| 14 | MS21042L08 | Nut | X | | 8 |
| 15 | NAS1149FN816P | Washer | X | | 8 |
| 16 | A479-2 | Ring | X | | 1 |
| 17 | MS21919WDG3 | Clamp | X | | 1 |
| 18 | MS27039C0806 | Screw | X | | 1 |
| 19 | B198-1* | Light - Warning (yellow; fuel filter**, aux fuel pump**, alternator, gov off, rotor brake) | X | | 1 |
| | B198-2* | Light - Warning (red; engine fire, oil pressure) | X | | 1 |
| 20 | B196-1 | Lamp (14-volt ships) | X | | 1 |
| 21 | B196-21 | Lamp (28-volt ships) | X | | 1 |
| 22 | B144-3 | Instrument Cluster (14-volt ships, Incl items 48-54 & 60) | X | | 1 |
| | B144-4 | Instrument Cluster (28-volt ships, Incl items 48-54 & 60) | X | | 1 |
| 23 | D193-1 | Plate - "R44 Astro" (7 or 9 hole panel) | X | | 1 |
| | D193-2 | Plate - "R44 Astro" (10 hole panel) | X | | 1 |
| | D193-3 | Plate - "R44 Clipper I" (7 or 9 hole panel) | X | | 1 |
| | D193-4 | Plate - "R44 Clipper I" (10 hole panel) | X | | 1 |
| | D193-5 | Plate - "R44 Raven I" (7 or 9 hole panel) | X | | 1 |
| | D193-6 | Plate - "R44 Raven I" (10 hole panel) | X | | 1 |
| | D193-7** | Plate - "R44 Clipper II" (7 or 9 hole panel) | X | | 1 |
| | D193-8** | Plate - "R44 Clipper II" (10 hole panel) | X | | 1 |
| | D193-9** | Plate - "R44 Raven II" (7 or 9 hole panel) | X | | 1 |
| | D193-10** | Plate - "R44 Raven II" (10 hole panel) | X | | 1 |
| <p>*Order also item 20 or 21 when replacing. **Ship S/N 10001 and higher only. (Cont'd)</p> | | | | | |

| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|--|---------------|---|-------------|----------------|--------------|
| LOWER INSTRUMENT PANEL (Cont'd) | | | | | |
| 8-15-24 | B195-17 | Post Light - Switch Panel (14-volt ships, includes item 20) | X | | 1 |
| | B195-18 | Post Light - Switch Panel (28-volt ships, includes item 21) | X | | 1 |
| 25 | MS35206-230 | Screw | X | | 3 |
| 26 | B330-6 | Palnut | X | | 1 |
| 27 | MS33737-15C | Nut - Instrument | X | | 4 |
| 28 | B184-2 | Switch Assembly - Battery | X | | 1 |
| 29 | B184-1 | Switch Assembly - Alternator and Strobe | X | | 2 |
| 30 | MS25068-23 | Switch - Clutch | X | | 1 |
| 31 | MS25224-1 | Guard - Clutch Switch | X | | 1 |
| 32 | B184-3 | Switch Assembly - Navigation Lights | X | | 1 |
| 33 | B398-1 | Potentiometer | X | | 1 |
| | MS91528-OC1B | Knob - Dimmer (supersedes 50-1WD-1G) | X | | 1 |
| 34 | MS35206-247 | Screw | X | | 8 |
| 35 | NAS1149DN832H | Washer | X | | 8 |
| 36 | B301-8 | Nut (brass) | X | | 8 |
| 37 | A448-14 | Bus Bar (8 breakers) | X | | 1 |
| 38 | A226-3 | Seal (install using B270-4 or -13 adhesive) | X | | A/R |
| 39 | MS35206-232 | Screw | X | | 1 |
| 40 | C604-6 | Gauge - Carb Air Temp (14-volt ships, includes item 43 and connector) | X | | 1 |
| | C604-8 | Gauge - Carb Air Temp (28-volt ships, includes item 43 and connector) | X | | 1 |
| 41 | - | Placard (carb heat instructions) | X | | 1 |
| 42 | MS33737-12C | Nut - Instrument | X | | 4 |
| 43 | A072-3 | Clock Assembly (Ref; no longer available. Order item 44.) | O | | 1 |
| 44 | A072-7* | Clock Assembly (14-volt; supersedes A072-3 and A072-5) | X | | 1 |
| | A072-9 | Light Tray Assembly (14-volt; order for A072-7) | X | | 1 |
| | B196-3 | Lamp (14-volt; order for A072-3 and A072-5) | X | | 1 |
| 45 | A569-6 | Warning Unit - Low RPM (14-volt ships) | X | | 1 |
| | R9546 | A569-6 Warning Unit - Low RPM (overhauled exchange) . . | X | | 1 |
| | A569-9 | Warning Unit - Low RPM (28-volt ships, not shown) | X | | 1 |
| | R9548 | A569-9 Warning Unit - Low RPM (overhauled exchange) . . | X | | 1 |
| 46 | MS35206-241 | Screw | X | | 3 |
| 47 | 2633 | Hole Plug | X | | 2 |
| *See Figure 9-1 for Chronometer Assembly. (Cont'd) | | | | | |

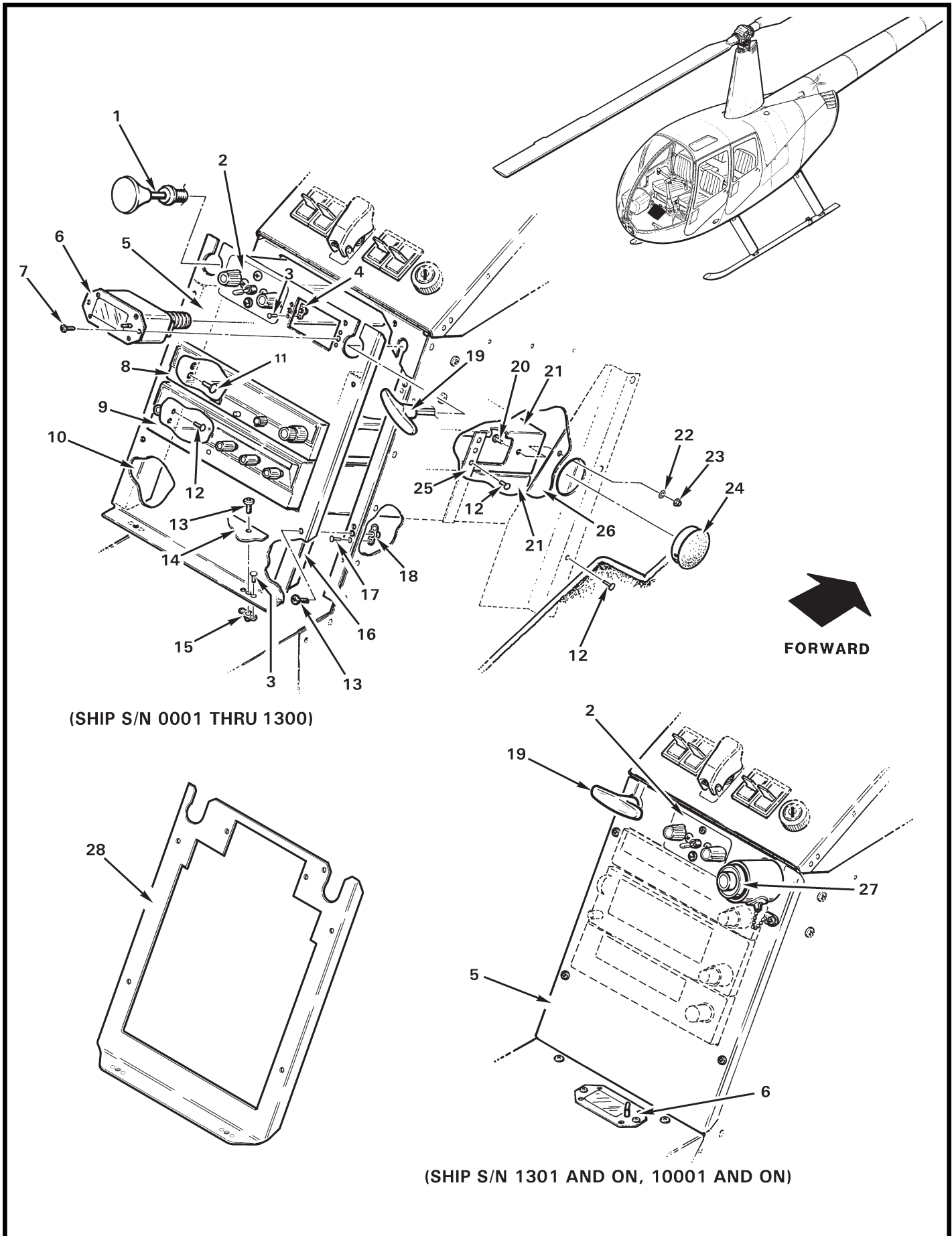
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|---------------------------------|-------------|--|-------------|----------------|--------------|
| LOWER INSTRUMENT PANEL (Cont'd) | | | | | |
| 8-15-48 | 6246-00468 | Ammeter | X | | 1 |
| 49 | 6246-00647 | Oil Pressure Meter (14-volt ships) | X | | 1 |
| | 6246-00715 | Oil Pressure Meter (28-volt ships) | X | | 1 |
| 50 | 6246-00090 | Oil Temperature Meter (14-volt ships) | X | | 1 |
| | 6246-00717 | Oil Temperature Meter (28-volt ships) | X | | 1 |
| 51 | 6246-00473 | Fuel Quantity Meter (main tank, 14-volt ships) | X | | 1 |
| | 6246-00716 | Fuel Quantity Meter (main tank, 28-volt ships) | X | | 1 |
| 52 | 6246-00473 | Fuel Quantity Meter (aux tank, 14-volt ships) | X | | 1 |
| | 6246-00716 | Fuel Quantity Meter (aux tank, 28-volt ships) | X | | 1 |
| 53 | 6246-00088 | Cylinder Head Temp Meter (14-volt ships) | X | | 1 |
| | 6246-00718 | Cylinder Head Temp Meter (28-volt ships) | X | | 1 |
| 54 | 17P47 | Cap (white) | X | | 2 |
| 55 | B195-10 | Post Light Assembly (14-volt ships, includes item 20) . . . | X | | 1 |
| | B195-11 | Post Light Assembly (28-volt ships, includes item 21) . . . | X | | 1 |
| 56 | MS35206-228 | Screw | X | | 2 |
| 57 | D830-2 | Hourmeter (ship S/N 0001 thru 9999) | X | | 1 |
| 58 | B158-3 | Heat Shrink | X | | A/R |
| 59 | B262-4 | Terminal | X | | 2 |
| 60 | 100057017 | Lamp (14-volt, gray base) | X | | 2 |
| | 100057022 | Lamp (28-volt, red base) | X | | 2 |
| 61 | A700-1 | Barrier | X | | 2 |
| 62 | - | Desiccant Bag | O | | 2 |
| 63 | B162-1 | Clipnut | X | | 3 |
| 64 | 0003-00434 | Crystal (clear plastic) | X | | 1 |
| 65 | C696-1 | CO Detector Assy (Ref, see Figure 8-17B) | | | |
| 66 | R8096 | Key - Duplicate (specify ship S/N and "PK" number when ordering) | X | | 1 |
| 67 | A661-1 | Switch - Ignition | X | | 1 |
| 68 | D830-1 | Hourmeter (ship S/N 10001 and higher) | X | | 1 |
| 69 | B387-3 | Decal - "Collective Activated" | X | | 1 |
| 70 | MS3367-5-9 | Ty-Rap | X | | 2 |
| 71 | B280-4 | Relay - Governor "OFF" Warning | X | | 1 |
| 72 | A730-5 | Cover (use only with item 43) | X | | 1 |
| 73 | B162-3 | Clipnut (use only with item 43) | X | | 1 |
| (Cont'd) | | | | | |

| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|---|-------------|---|-------------|----------------|--------------|
| LOWER INSTRUMENT PANEL (Cont'd) | | | | | |
| 8-15-74 | A072-8* | Clock Assembly (28-volt; supersedes A072-6. Incl items 75 and 76) | X | | 1 |
| | B196-23 | Lamp (28-volt; order for A072-6) | X | | 1 |
| 75 | A072-10 | Light Tray Assembly (28-volt; order for A072-8) | X | | 1 |
| 76 | - | Screw | X | | 2 |
| *See Figure 9-1 for Chronometer Assembly. | | | | | |

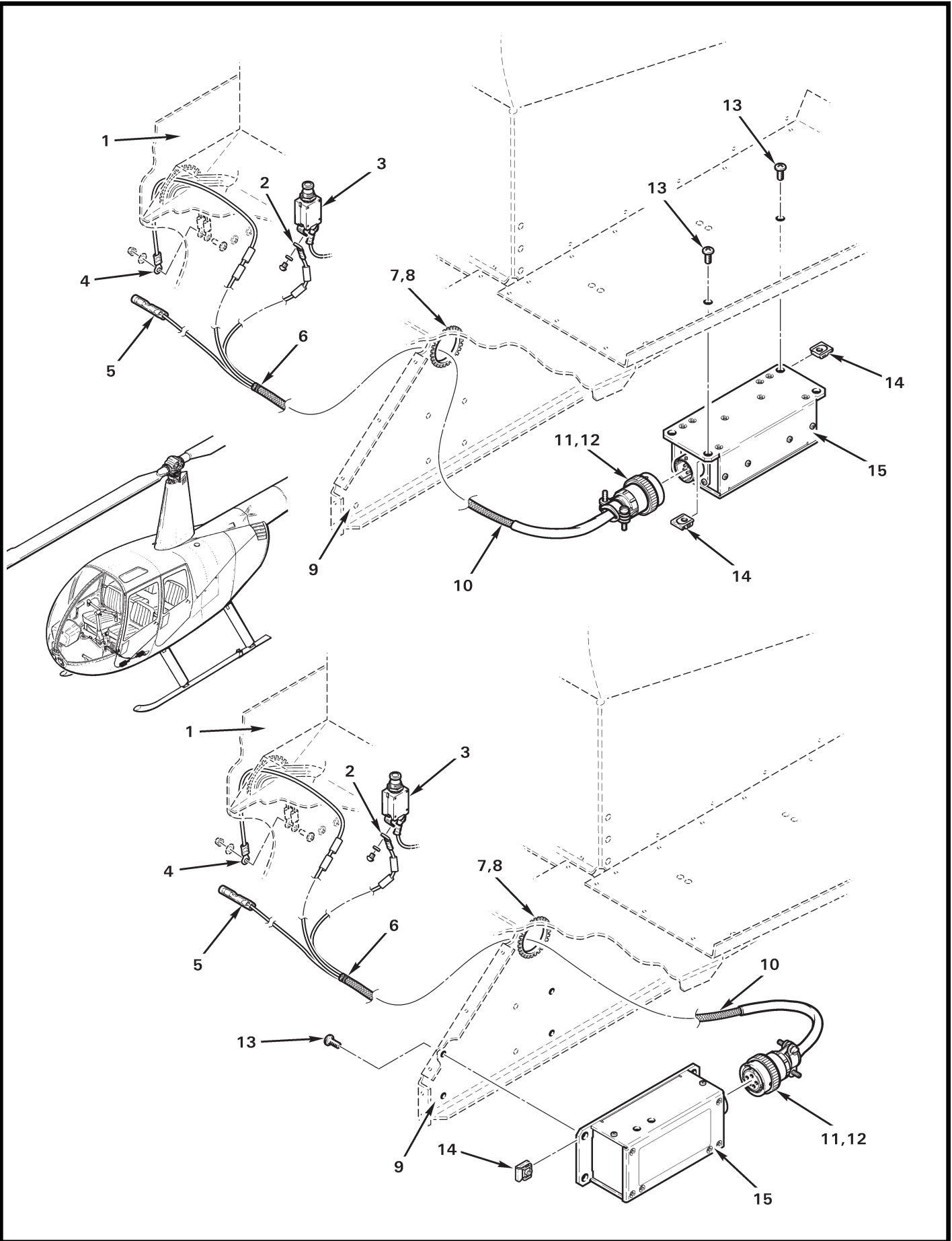
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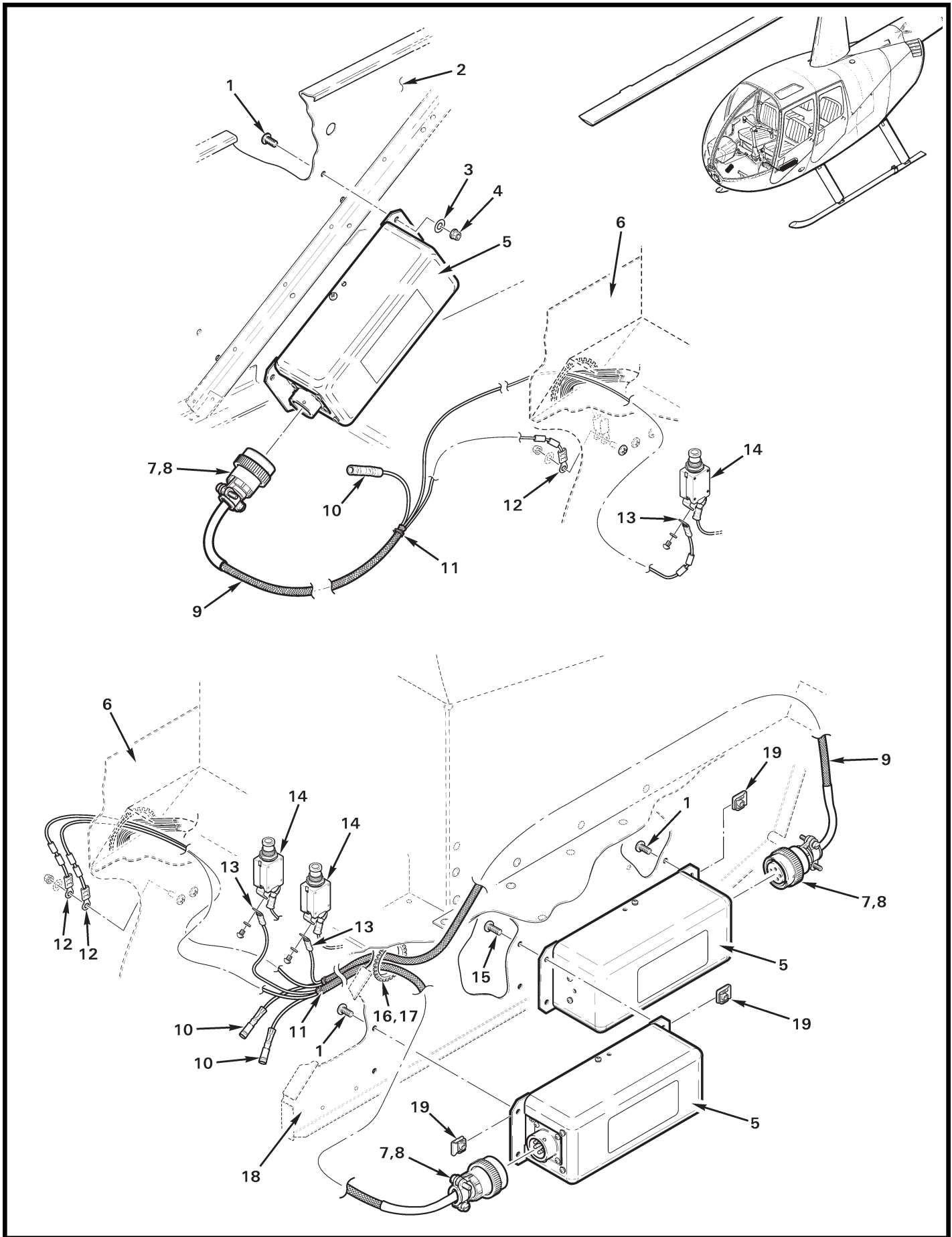
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|---|----------------|--|-------------|----------------|--------------|
| CARBON MONOXIDE DETECTOR AND DIMMER INSTALLATION | | | | | |
| 8-17B-1 | MS21042L06 | Nut | X | | 2 |
| 2 | NAS1149FN616P | Washer | 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 | CO 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 |
| *28-volt ships only. | | | | | |



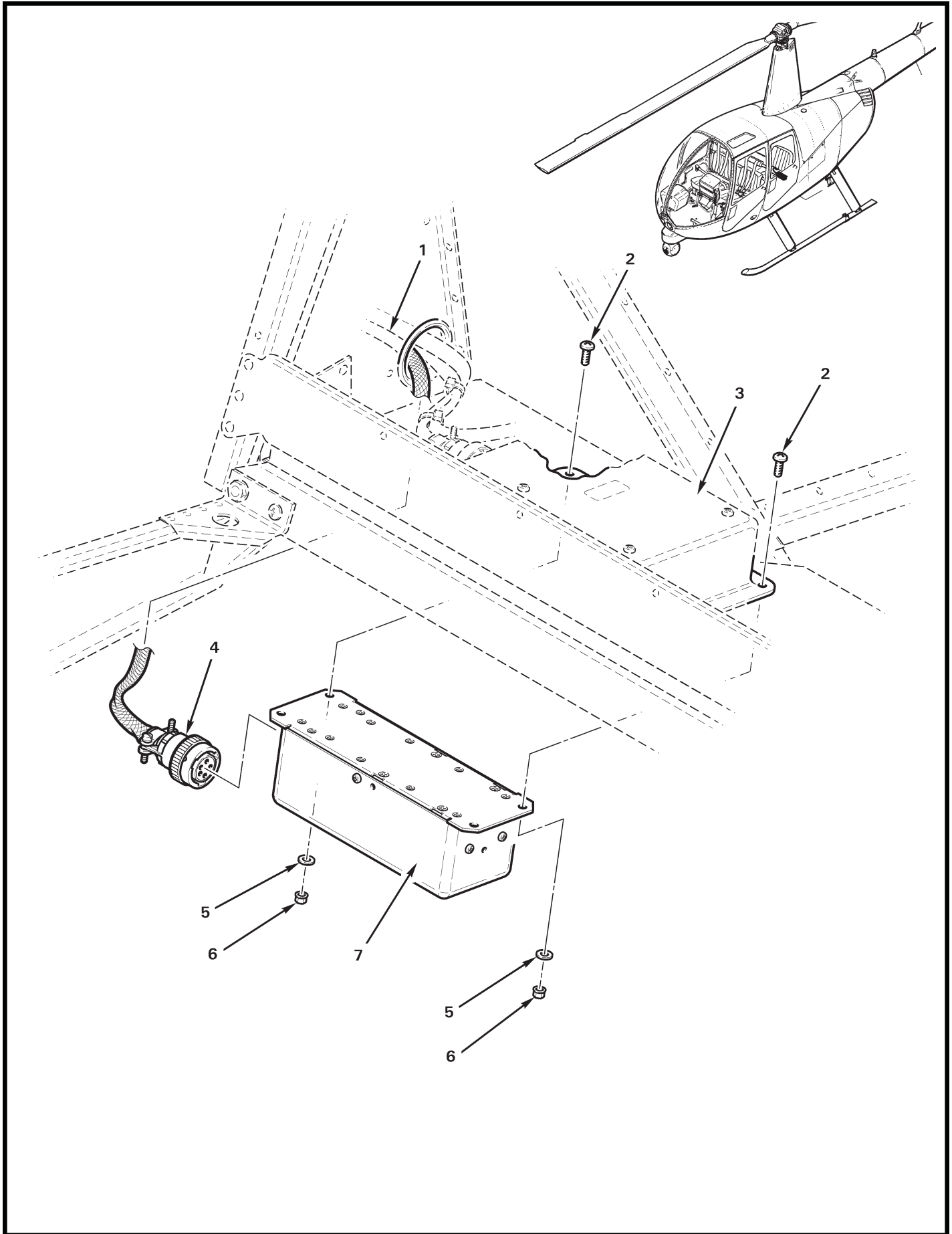
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|---------------|--|-------------|----------------|--------------|
| | | LOWER CONSOLE ASSEMBLY | | | |
| 8-19-1 | A522-8 | Control - Cabin Heat (Ref, see Figure 8-45) | | | |
| 2 | B338-1 | Intercom System Unit (Ref, see Figure 8-27) | | | |
| 3 | MS20426AD3 | Rivet | X | | 4 |
| 4 | NAS697A04 | Nutplate | X | | 2 |
| 5 | C641 | Face - Avionics (C641-4 Face shown. Please specify dash no. when ordering. Includes items 3, 4, and 15.) | X | | 1 |
| 6 | B341-1 | Outside Air Temperature Gauge (Includes item 7 and B341-4 probe. See also Figure 8-75.) | X | | 1 |
| 7 | - | Screw | O | | 2 |
| 8 | KY 197A | VHF Comm Transceiver (Bendix/King, TSO'd. Includes items 20 and 21.) | O | | 1 |
| 9 | KT 76A | Transponder (Optional, Bendix/King, TSO'd. Includes item 21.) | O | | 1 |
| 10 | C905-3 | Angle (supersedes C905-1 [LH] angle) | X | | 1 |
| 11 | MS20426AD5 | Rivet | X | | 1 |
| 12 | MS20426AD3 | Rivet | X | | A/R |
| 13 | MS27039C0806 | Screw | X | | 7 |
| 14 | C444 | Cover (Ref, see Figure 7-1) | | | |
| 15 | MS21069L08 | Nutplate | X | | 2 |
| 16 | C905-3 | Angle (supersedes C905-2 [RH] angle) | X | | 1 |
| 17 | NAS1097AD3 | Rivet | X | | 10 |
| 18 | MS21075L08E | Nutplate | X | | 5 |
| 19 | C522-5 | Control - Cabin Air Vent (Ref, see Figure 8-45) | | | |
| 20 | - | Screw | O | | 2 |
| 21 | - | Tray (Ref, supplied with radio) | | | |
| 22 | NAS1149FN616P | Washer | X | | 2 |
| 23 | MS21042L06 | Nut | X | | 2 |
| 24 | DP-1250 | Hole Plug | X | | 2 |
| 25 | A684-1 | Strap | X | | 2 |
| 26 | A371-3 | Stiffener (supersedes A371-1 [LH] and A371-2 [RH] stiffeners) | X | | 2 |
| 27 | A522-7* | Control - Fuel Mixture (Ref; shown with guard installed. See also Figure 4-19F.) | | | |
| 28 | D225 | Face - Avionics (For use when Audio Control unit is installed. D225-18 Face shown. Please specify dash no. when ordering.) | X | | 1 |
| | | *Ship S/N 10001 and higher. | | | |



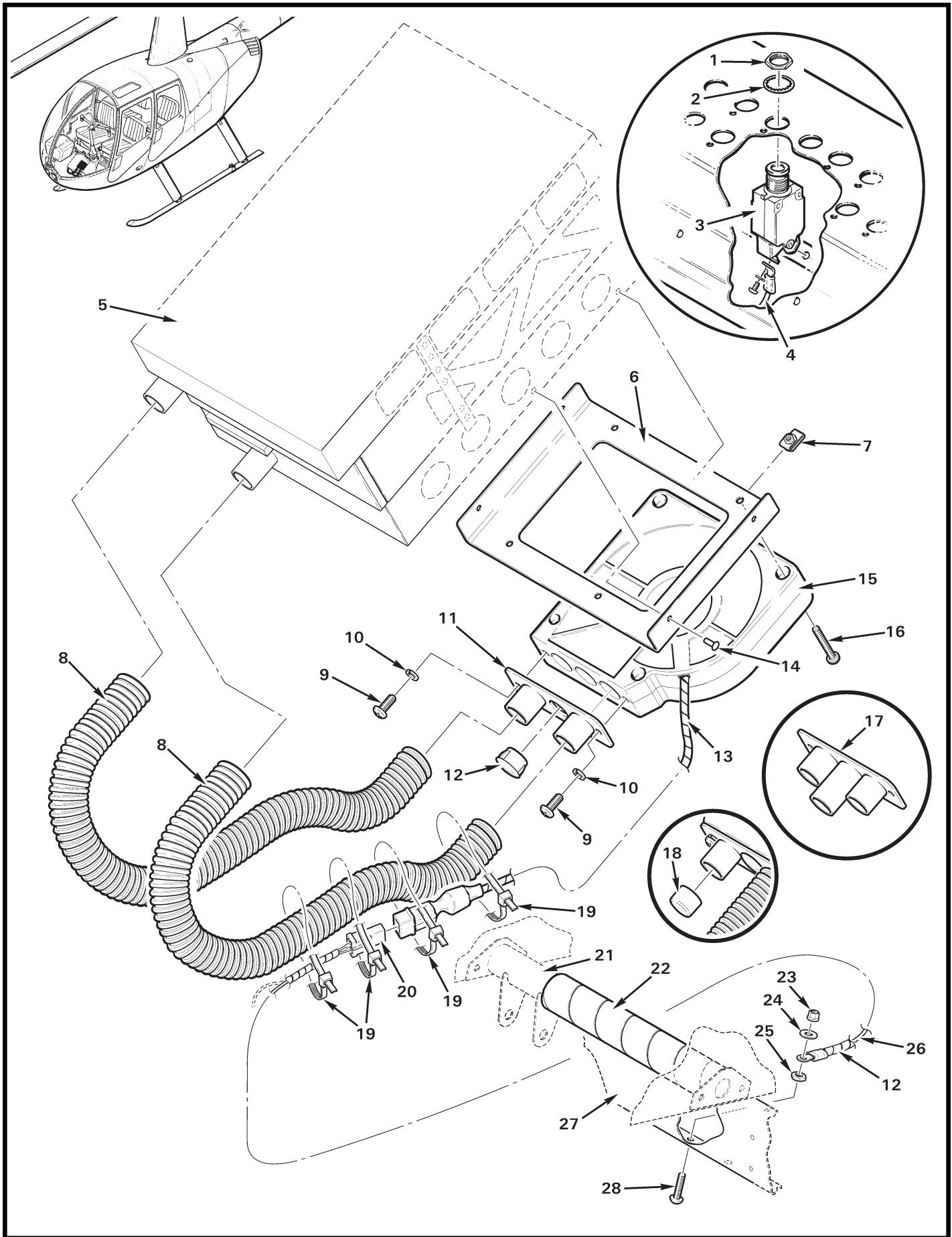
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|--------------|--|-------------|----------------|--------------|
| | | 28- to 14-VOLT POWER CONVERTER INSTALLATION | | | |
| 8-19B-1 | C293 | Keel Panel (LH; Ref) | | | |
| 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 9) | 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 |



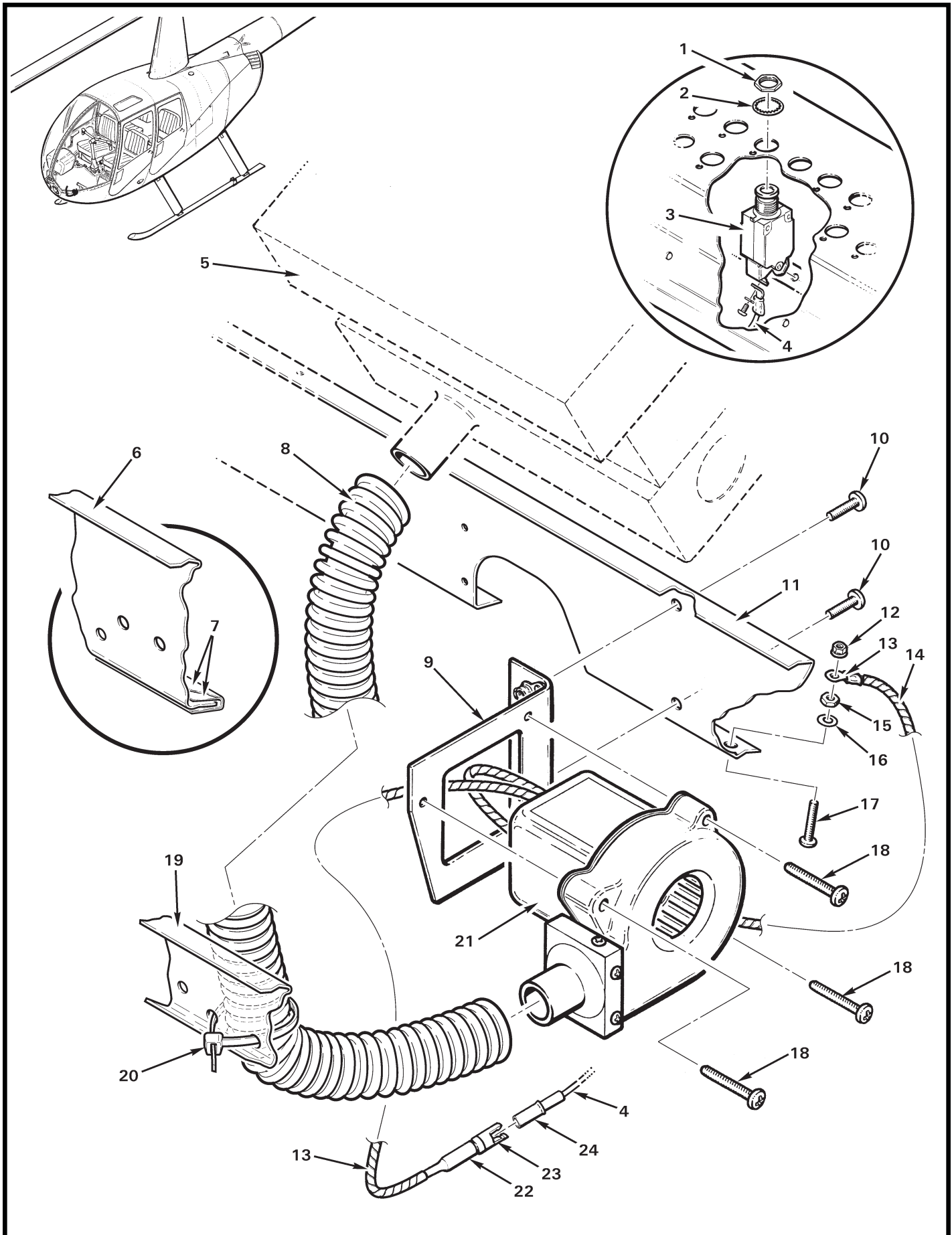
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|---------------|--|-------------|----------------|--------------|
| | | 28- to 14-VOLT POWER CONVERTER INSTALLATION | | | |
| 8-19D-1 | MS27039C0806 | Screw | X | | A/R |
| 2 | C033 | Lower Console Assembly (Ref) | X | | |
| 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 9) | X | | A/R |
| 17 | B270-8qt | Adhesive | X | | A/R |
| 18 | C531 | Support (Ref) | | | |
| 19 | B162-2 | Clipnut | X | | A/R |



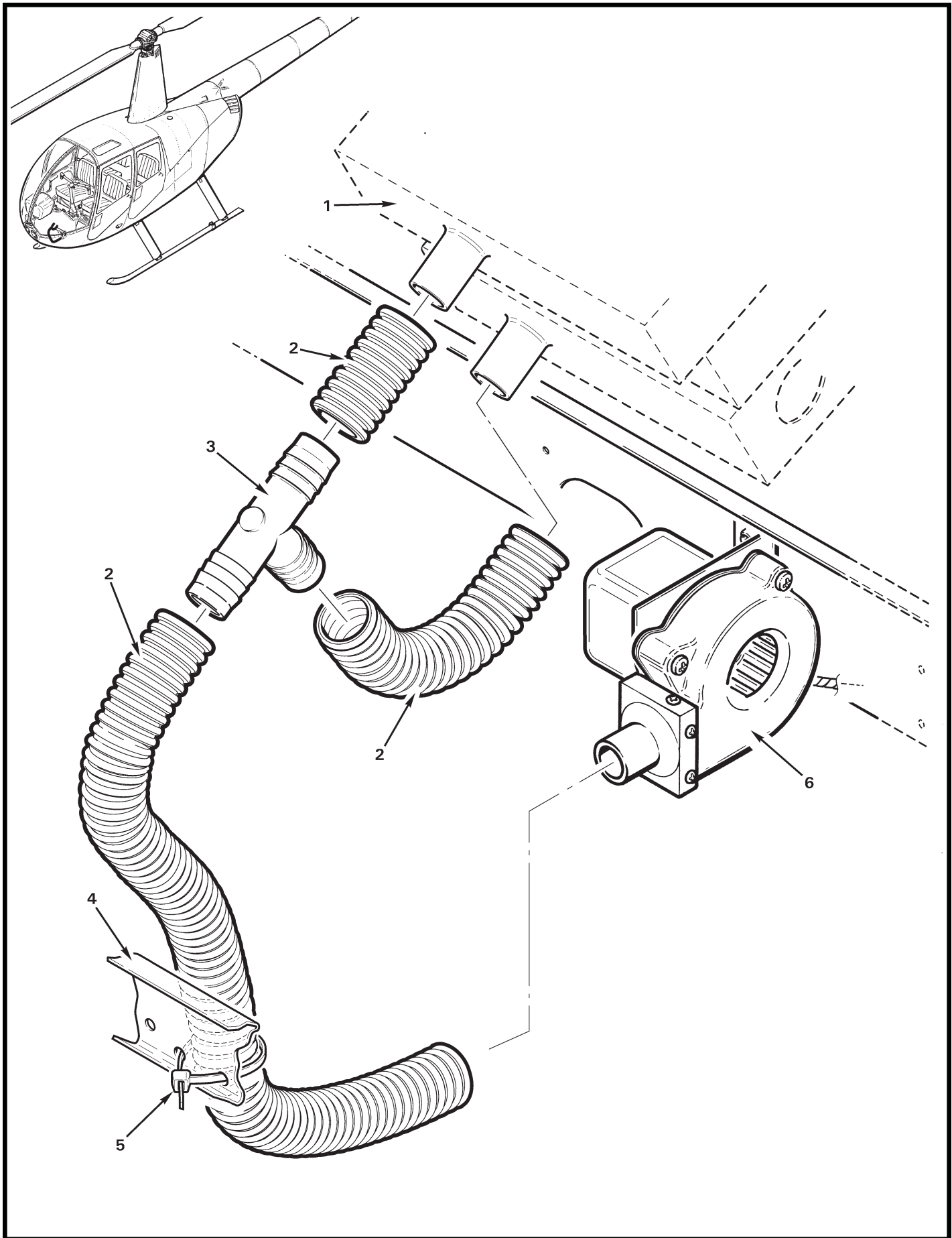
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|----------------------------------|---------------|--|----------------|----------------------|--------------------|
| | | 28- to 14-VOLT POWER CONVERTER INSTALLATION | | | |
| 8-19F-1 | D058-1 | Harness 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 |



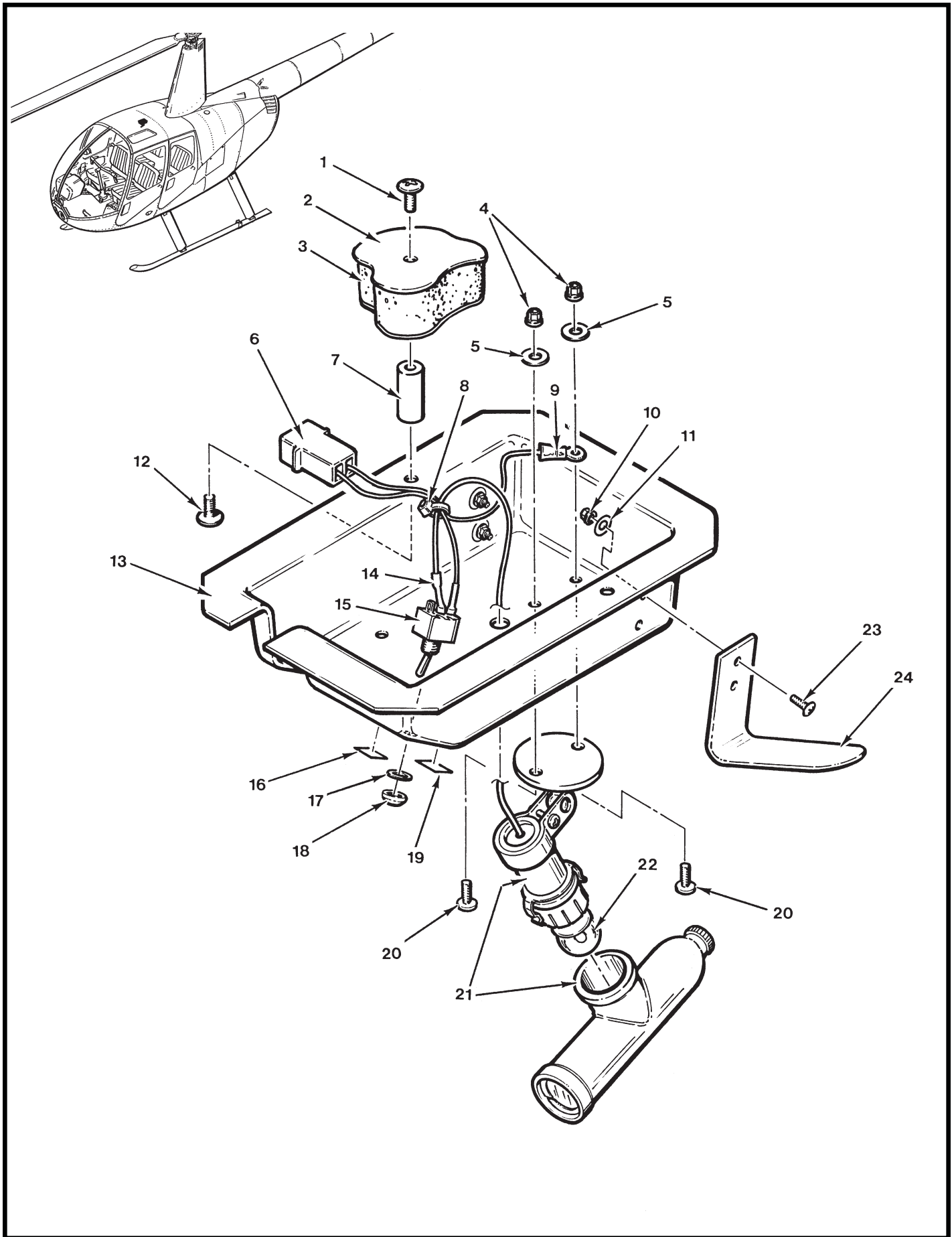
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------------------|---------------|--|-------------|----------------|--------------|
| AVIONICS BLOWER INSTALLATION | | | | | |
| 8-19H-1 | - | Nut | O | | 1 |
| 2 | - | Lockwasher | O | | 1 |
| 3 | B297-2 | Circuit Breaker (2-amp, includes items 1 and 2) | X | | 1 |
| 4 | - | Wire (Ref, #1014; power) | | | |
| 5 | - | Radio Tray (Ref) | | | |
| 6 | D561-8 | Bracket (attach to bottom of item 5) | X | | 1 |
| 7 | B162-1 | Clipnut | X | | 4 |
| 8 | 5399K17 | Hose | X | | A/R |
| 9 | MS27039C0807 | Screw | X | | 2 |
| 10 | B332-42 | Lockwasher | X | | 2 |
| 11 | D561-3 | Outlet Assembly (2-hose, includes item 12; for 1 hose installation order item 18 to cover unused outlet) | X | | A/R |
| 12 | 2663 | Hole plug | X | | A/R |
| 13 | B161-2 | Spirap | X | | A/R |
| 14 | MS20470AD3 | Rivet | X | | 4 |
| 15 | D561-9 | Blower Assembly (14-volt ships; includes connector, wires, heat shrink, etc., as shown.) | X | | 1 |
| | D561-10 | Blower Assembly (28-volt ships; includes connector, wires, heat shrink, etc., as shown.) | X | | 1 |
| 16 | MS35206-235 | Screw | X | | 4 |
| 17 | D561-4 | Outlet Assembly (3-hose) | X | | A/R |
| 18 | A959-8 | Cap - Avionics Blower | X | | 1 |
| 19 | MS3367-4-9 | Ty-Rap | X | | A/R |
| 20 | B263-13 | Housing (wire no.[s] 1014 and 1761) | X | | 1 |
| | B263-2 | Socket | X | | 2 |
| 21 | C349-1 | Support Assembly (Ref) | | | |
| 22 | B161-12 | Spirap | X | | A/R |
| 23 | MS21042L08 | Nut | X | | 1 |
| 24 | NAS1149DN832H | Washer (aluminum) | X | | 1 |
| 25 | B301-8 | Nut (Brass) | X | | 1 |
| 26 | - | Wire (Ref, #1761; ground) | | | |
| 27 | C407-2 | Beam (Ref) | | | |
| 28 | AN515UB8R10 | Screw | X | | 1 |



| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|---------------|---|-------------|----------------|--------------|
| | | AVIONICS BLOWER INSTALLATION | | | |
| 8-19J-1 | - | Nut | O | | 1 |
| 2 | - | Lockwasher | O | | 1 |
| 3 | B297-2 | Circuit Breaker (2-amp, includes items 1 and 2) | X | | 1 |
| 4 | - | Wire (Ref, #1014; power) | | | |
| 5 | - | Radio Tray (Ref) | | | |
| 6 | A406-2 | Beam (Ref, large height; older R44s) | | | |
| 7 | A701-1 | Tape - Foil (2 layers around edge of lower flange as shown. Used only with item 6.) | X | | A/R |
| 8 | 5399K17 | Hose | X | | A/R |
| 9 | D561-1 | Bracket | X | | 1 |
| 10 | MS27039C0806 | Screw | X | | 2 |
| 11 | C407-2 | Beam (Ref) | | | |
| 12 | MS21042L08 | Nut | X | | 1 |
| 13 | B260-3 | Terminal (ground wire) | X | | 1 |
| 14 | B161-2 | Spirap | X | | A/R |
| 15 | B301-8 | Nut | X | | 1 |
| 16 | NAS1149DN832H | Washer (aluminum) | X | | 1 |
| 17 | AN515UB8R10 | Screw | X | | 1 |
| 18 | MS35206-234 | Screw | X | | 3 |
| 19 | A406-9 | Beam (Ref, small height) | | | |
| 20 | MS3367-7-9 | Ty-Rap | X | | 1 |
| 21 | TB1-1.5SD | Blower Assembly (14-volt; includes wires) | X | | 1 |
| | TB1-1.5D | Blower Assembly (28-volt; includes wires) | X | | 1 |
| 22 | B158-406 | Heat Shrink (28-volt ships only) | X | | A/R |
| 23 | B263-10 | Housing | X | | 1 |
| | B263-1 | Pin | X | | 1 |
| 24 | B263-11 | Housing | X | | 1 |
| | B263-2 | Socket | X | | 1 |

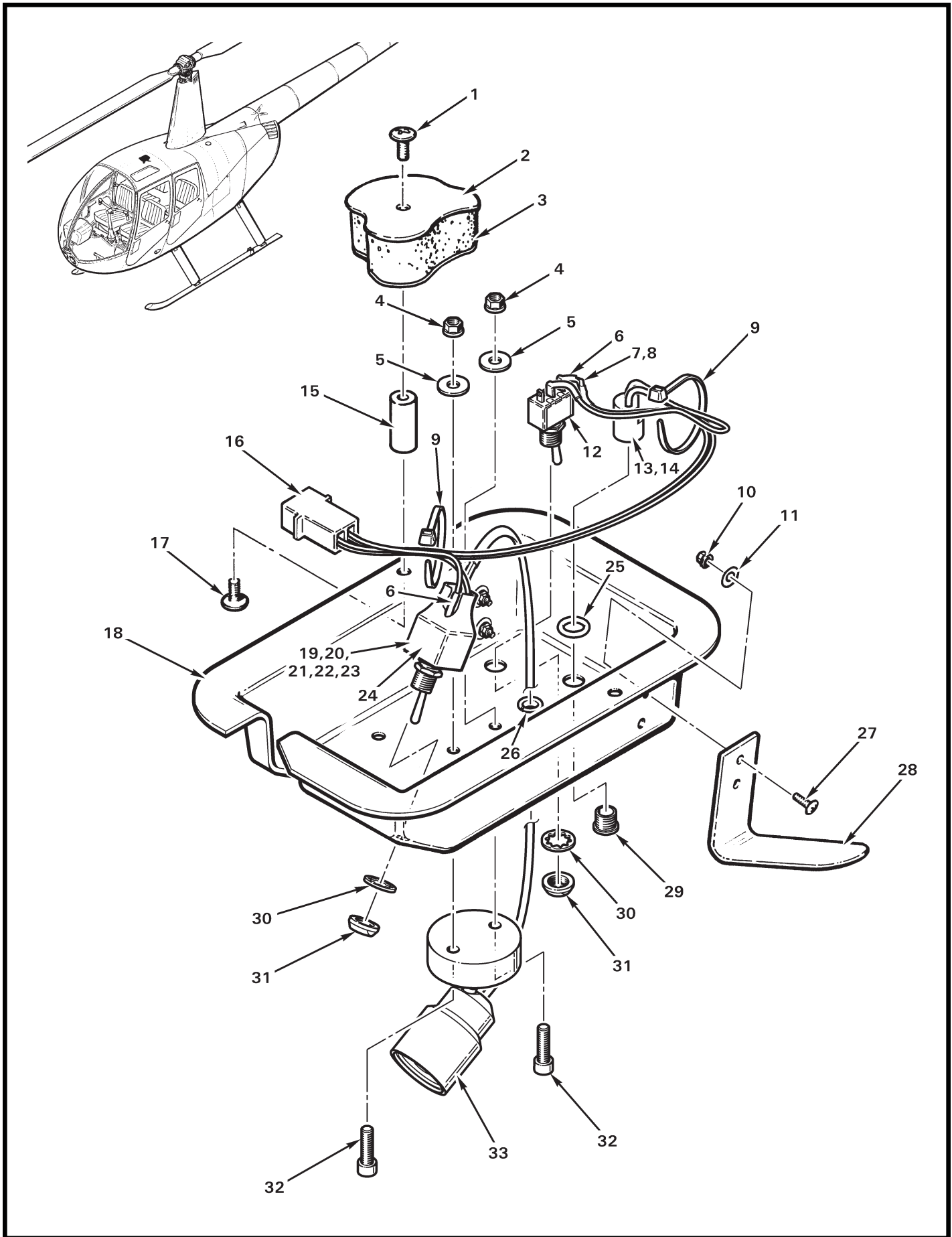


| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|---|-------------|---|----------------|----------------------|--------------------|
| TEE INSTALLATION - AVIONICS BLOWER | | | | | |
| 8-19L-1 | - | Radio Tray (Ref) | | | |
| 2 | 5399K17 | Hose | X | | A/R |
| 3 | 0715T-028 | Tee | X | | 1 |
| 4 | A406 | Beam (Ref) | | | |
| 5 | MS3367-7-9 | Ty-Rap | X | | 1 |
| 6 | - | Blower Assembly (Ref, see Figure 8-19H) | | | |

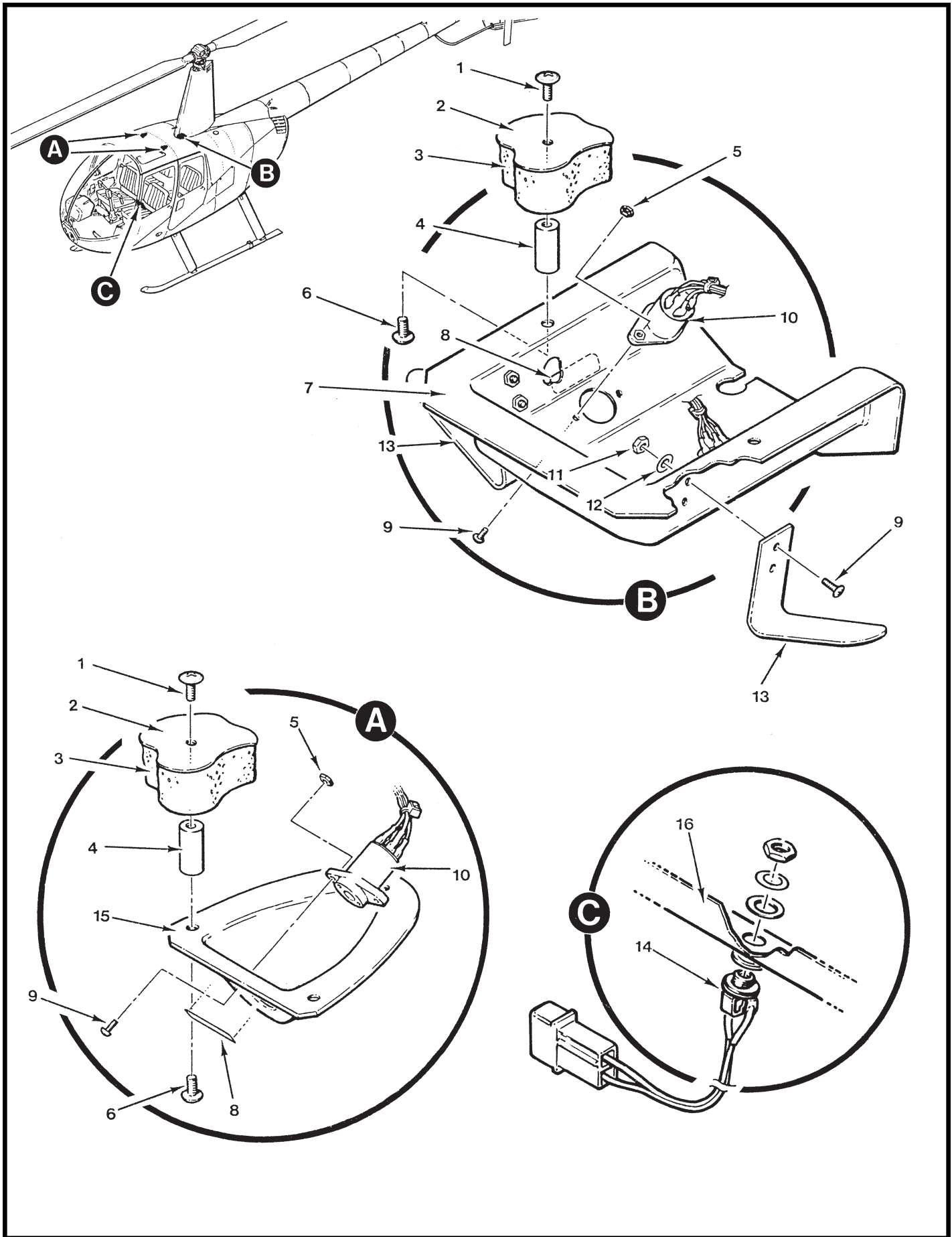


8-20 FIGURE 8-21 SPOTLIGHT INSTALLATION (INCANDESCENT) Issued: JUL 2008

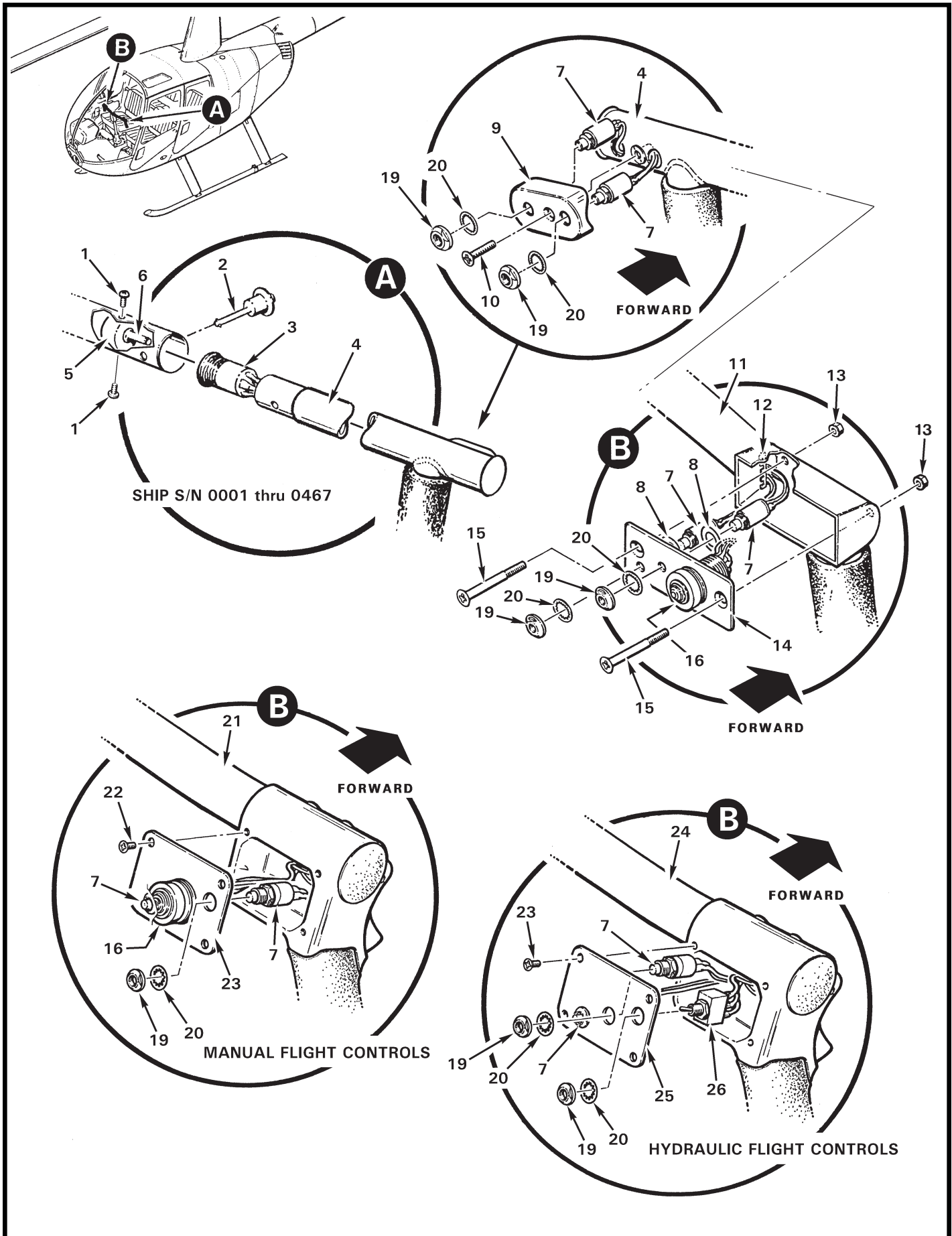
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|---------------|--|-------------|----------------|--------------|
| | | SPOTLIGHT INSTALLATION (INCANDESCENT) | | | |
| 8-21-1 | AN526C832R6 | Screw | X | | 2 |
| 2 | C273-1 | Roof (Ref) | | | |
| 3 | C003 | Insulation - Fwd (RH, Ref. See Figure 1-9.) | | | |
| 4 | MS21042L06 | Nut | X | | 2 |
| 5 | NAS1149FN616P | Washer | X | | 2 |
| 6 | B263-12 | Housing | X | | 1 |
| | B263-1 | Pin | X | | 2 |
| 7 | C710-3 | Spacer | X | | 2 |
| 8 | MS3367-4-9 | Ty-Rap | X | | A/R |
| 9 | B260-2 | Terminal | X | | 1 |
| 10 | MS21042L04 | Nut | X | | 4 |
| 11 | NAS1149FN416P | Washer | X | | 4 |
| 12 | MS27039C0806 | Screw | X | | 2 |
| 13 | C712-1 | Cover (Ref; no longer available). | O | | 1 |
| 14 | B158-2 | Heat Shrink (both wires) | X | | A/R |
| 15 | B300-1 | Switch Assembly - Spotlight (Incl items 17 and 18) | X | | 1 |
| 16 | A654-15 | Decal - "On" | X | | 1 |
| 17 | B227-3 | Lockwasher | X | | 1 |
| 18 | B227-4 | Dress Nut | X | | 1 |
| 19 | A654-13 | Decal - "Off" | X | | 1 |
| 20 | MS35206-228 | Screw | X | | 2 |
| 21 | A1425A-2 | Spotlight Assembly (does not include item 22) | X | | 1 |
| 22 | B196-2 | Lamp (14-volt ships) | X | | 4 |
| | B196-22 | Lamp (28-volt ships) | X | | 1 |
| 23 | MS35206-215 | Screw | X | | 4 |
| 24 | A752-1 | Angle | X | | 2 |



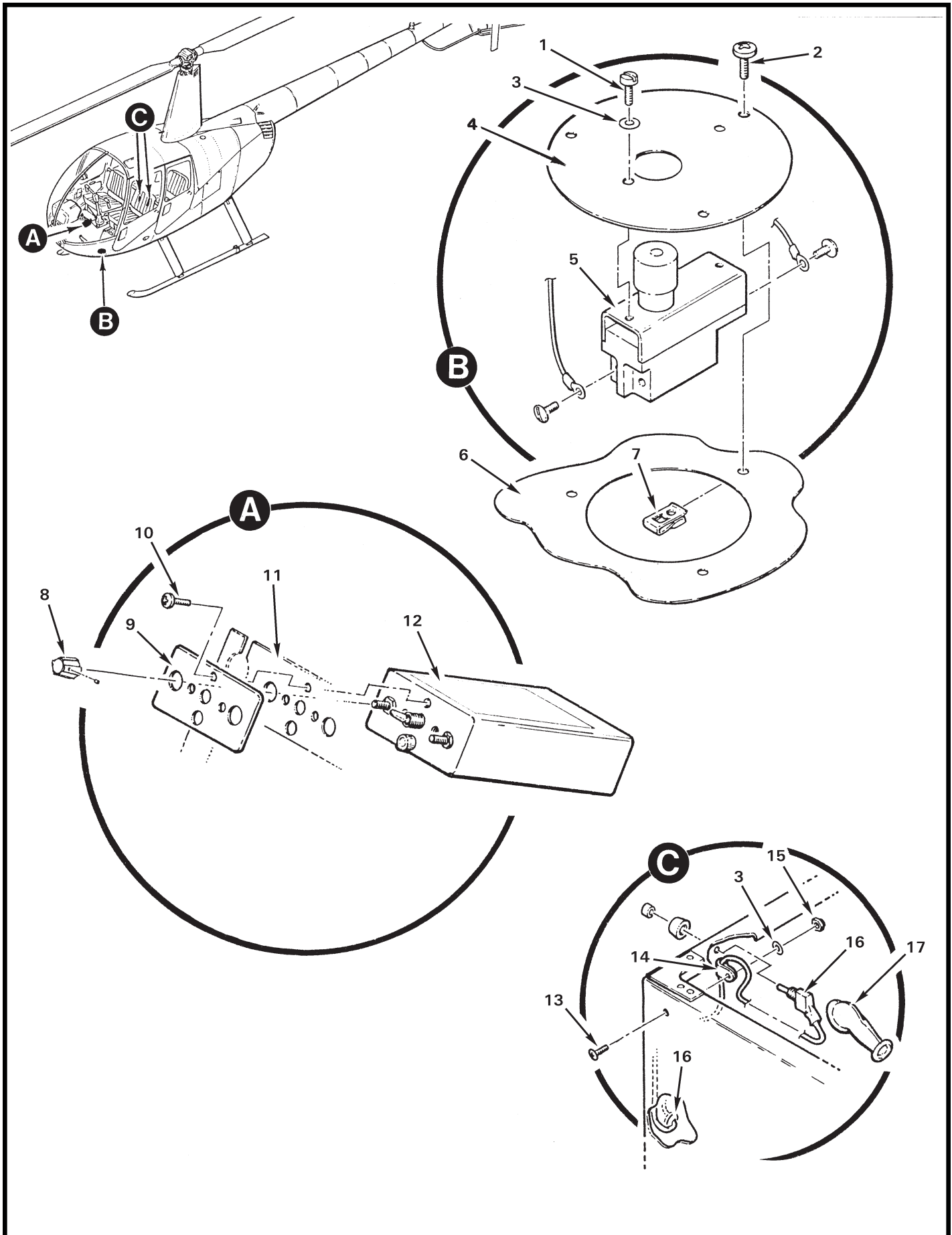
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|------------------|--|-------------|----------------|--------------|
| | | SPOTLIGHT INSTALLATION (LED) | | | |
| 8-21B-1 | AN526C832R6 | Screw | X | | 2 |
| 2 | C273-1 | Roof (Ref) | | | |
| 3 | C003 | Insulation - Fwd (RH, Ref. See Figure 1-9) | | | |
| 4 | MS21042L06 | Nut | X | | 2 |
| 5 | NAS1149FN616P | Washer | X | | 2 |
| 6 | B158-2 | Heat Shrink (around leads) | X | | A/R |
| 7 | B0207C511R0F5T* | Resistor | X | | 1 |
| 8 | B0207C1K210F5T** | Resistor | X | | 1 |
| 9 | MS3367-4-9 | Ty-Rap | X | | 2 |
| 10 | MS21042L04 | Nut | X | | 4 |
| 11 | NAS1149FN416P | Washer | X | | 4 |
| 12 | B300-1 | Switch Assembly (Incl items 30 and 31) | X | | 1 |
| 13 | CNX310000X2112 | Connector | X | | 1 |
| 14 | E1003 | LED (not shown) | X | | 1 |
| 15 | C710-3 | Spacer | X | | 2 |
| 16 | B263-12 | Housing | X | | 1 |
| | B263-1 | Pin | X | | 2 |
| 17 | MS27039C0806 | Screw | X | | 2 |
| 18 | C712-2 | Cover | X | | 1 |
| 19 | B300-5 | Switch Assembly (Incl items 30 and 31) | X | | 1 |
| 20 | B0207C422R0F5T* | Resistor (not shown) | X | | 1 |
| 21 | B0207C1K430F5T* | Resistor (not shown) | X | | 1 |
| 22 | B0207C1K650F5T** | Resistor (not shown) | X | | 1 |
| 23 | B0207C3K400F5T** | Resistor (not shown) | X | | 1 |
| 24 | B158-12 | Heat Shrink | X | | A/R |
| 25 | A215-008 | O-Ring | X | | 1 |
| 26 | NAS557-3A | Grommet | X | | 1 |
| 27 | MS35206-215 | Screw | X | | 4 |
| 28 | A752-1 | Angle | X | | 2 |
| 29 | CMC321-CTP | Lens | X | | 1 |
| 30 | B227-3 | Lockwasher | X | | 2 |
| 31 | B227-4 | Dress Nut | X | | 2 |
| 32 | NAS1352-06-8 | Screw | X | | 2 |
| 33 | D606-1 | Spotlight | X | | 1 |
| | | * 14-volt ships only. | | | |
| | | ** 28-volt ships only. | | | |



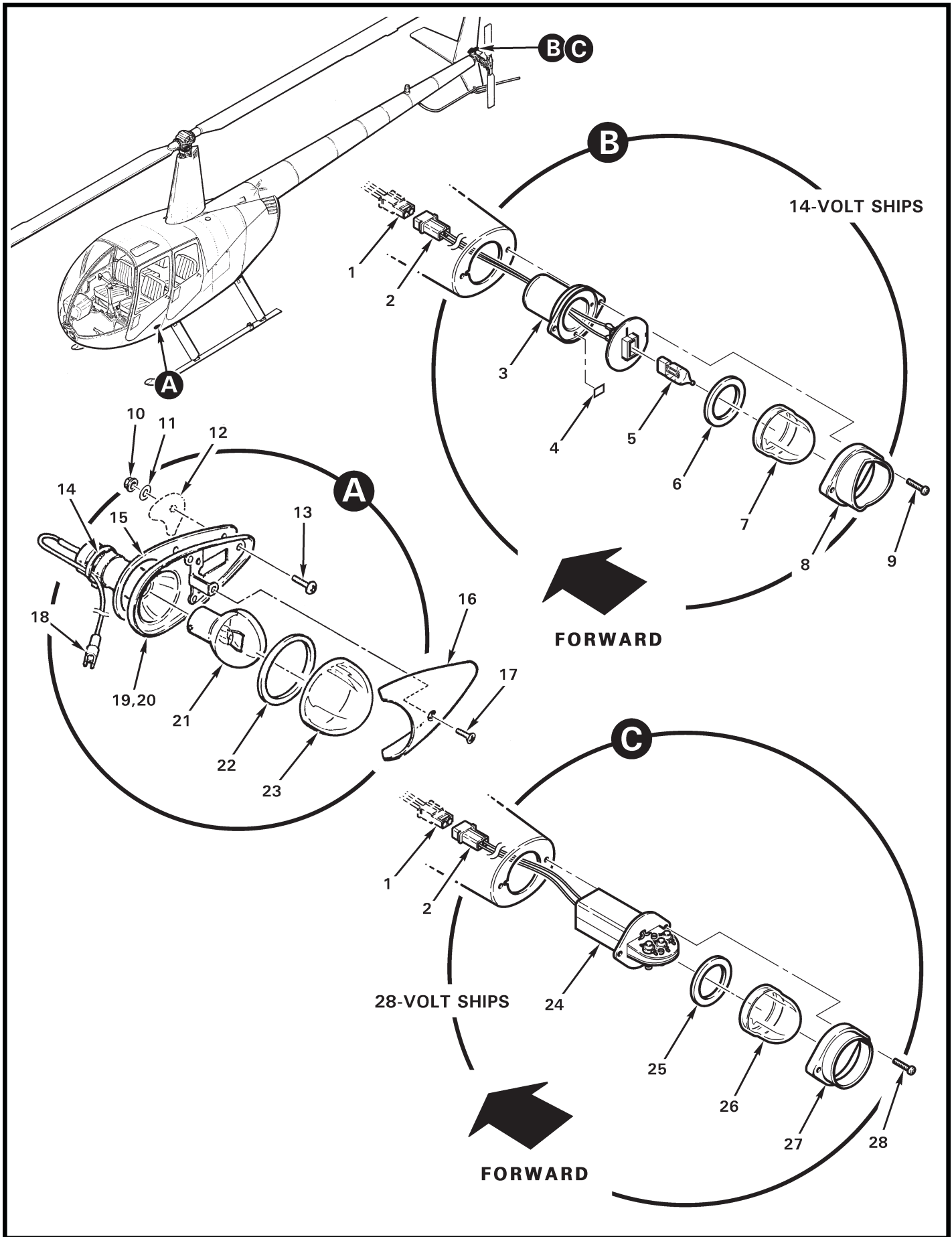
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|--|---------------|---|----------------|----------------------|--------------------|
| INTERCOM SYSTEM - HEADSET JACKS | | | | | |
| 8-23-1 | AN526C832R6 | Screw | X | | 8 |
| 2 | — | Panel - Roof (Ref) | | | |
| 3 | — | Foam Insulation (Ref) | | | |
| 4 | C710-3 | Spacer | X | | 8 |
| 5 | B330-2 | Palnut | X | | 8 |
| 6 | MS27039C0805 | Screw | X | | 8 |
| 7 | A712-3 | Cover | X | | 1 |
| 8 | A654-16 | Decal ("Headset") | X | | 4 |
| 9 | MS35206-215 | Screw | X | | 10 |
| 10 | TJ-120 | Jack | X | | 4 |
| 11 | MS21042L04 | Nut | X | | 4 |
| 12 | NAS1149FN416P | Washer | X | | 4 |
| 13 | A752-1 | Angle (headset holder) | X | | 2 |
| 14 | C049-6 | Harness Assembly (external audio input) | X | | 1 |
| 15 | C710-1 | Cover Assembly (Includes item 8) | X | | 2 |
| 16 | C463-2 | Cover (Ref) | X | | 1 |



| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|--|---------------|--|-------------|----------------|--------------|
| INTERCOM SYSTEM - CYCLIC SWITCHES | | | | | |
| 8-25-1 | MS35206-241 | Screw | X | | 2 |
| 2 | B232-1 | Handle Pin | X | | 1 |
| 3 | TJT-120 | Jack | X | | 1 |
| 4 | A756-15* | Grip Assembly - Co-Pilot (Ref) | | | |
| 5 | A776-1 | Mount | X | | 1 |
| 6 | A781-1 | Plug | X | | 1 |
| 7 | B227-2 | Switch Assembly (Incl items 19 and 20) | X | | 4 |
| 8 | NAS1149F0463P | Washer | X | | 2 |
| 9 | A216-1 | Housing | X | | 1 |
| 10 | MS24693-S51 | Screw | X | | 1 |
| 11 | A756-6* | Grip Assembly - Pilot (Ref) | | | |
| 12 | MS21266-1N | Grommet (install using item 17) | X | | A/R |
| 13 | MS21042L08 | Nut | X | | 2 |
| 14 | C216-1 | Plate | X | | 1 |
| 15 | MS24694-S17 | Screw | X | | 2 |
| 16 | T4-0032 | Switch (trim system, Ref) | | | |
| 17 | B270-8qt | Adhesive (one-quart can) | X | | A/R |
| 18 | C058-1* | Cyclic Grip Assembly (Ref, includes items 1 thru 17; see Figure 7-1) | | | |
| 19 | B227-4 | Dress Nut | X | | 1 |
| 20 | B227-3 | Lockwasher | X | | 1 |
| 21 | C058-1 | Grip Assembly - Pilot/Co-Pilot (Ref, Manual Flight Controls. Includes item 23. See also Figure 7-3D.) | | | |
| 22 | MS24693-S2 | Screw | X | | 8 |
| 23 | C214-7 | Plate | X | | 1 |
| 24 | C058-7 | Grip Assembly - Pilot/Co-Pilot (Ref, Hydraulic Flight Controls. Includes item 25. See also Figure 7-3D.) | | | |
| 25 | C214-10 | Plate | X | | 1 |
| 26 | B300-3 | Switch - Hydraulic (Ref; see Figure 7-3D) | | | |
| *Ship S/N 0001 thru 0467. | | | | | |



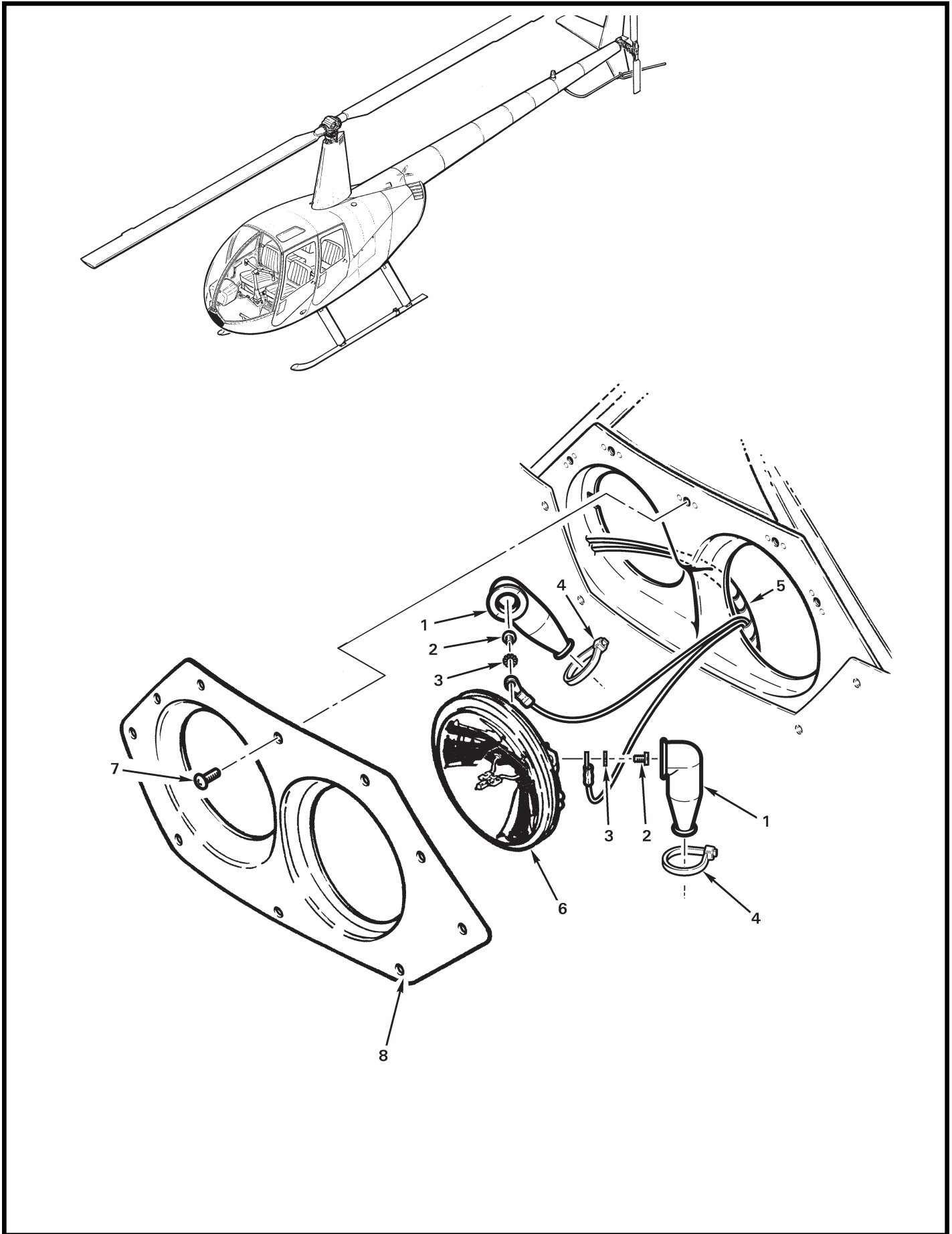
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|--|---------------|--|-------------|----------------|--------------|
| INTERCOM SYSTEM - SYSTEM UNIT/SWITCHES | | | | | |
| 8-27-1 | AN502-6-6 | Screw | X | | 2 |
| 2 | MS27039C0806 | Screw | X | | 3 |
| 3 | NAS1149FN616P | Washer | X | | 2 |
| 4 | A797-1 | Cover | X | | 1 |
| 5 | B565-1 | Switch (Floor; alternate part no. M8805/55-005) | X | | 1 |
| 6 | C232-3 | Panel - Floor (Ref) | | | |
| 7 | B162-3 | Clipnut | X | | 3 |
| 8 | - | Knob | O | | 2 |
| 9 | - | Plate | O | | 1 |
| 10 | - | Screw | O | | 3 |
| 11 | C641 | Panel - Avionics (Ref) | | | |
| 12 | B338-2* | Intercom System Unit (Includes items 8 thru 10; supersedes B338-1) | X | | 1 |
| 13 | MS35206-228 | Screw | X | | 2 |
| 14 | 7622 | Clamp | X | | 2 |
| 15 | MS21042L06 | Nut | X | | 2 |
| 16 | C049-10 | Harness Assembly (LH and RH, includes items 17 and 18) | X | | 2 |
| 17 | MS25171-1S | Nipple | X | | 2 |
| 18 | MS35489-4 | Grommet (or AN931-3-5) | X | | 2 |
| 19 | 801802000 | Button (black) | X | | 2 |
| *Contact RHC Technical Support to replace B228-1 ICS control. B338-2 control not compatible with old revision C049 harness assembly (item 16). | | | | | |



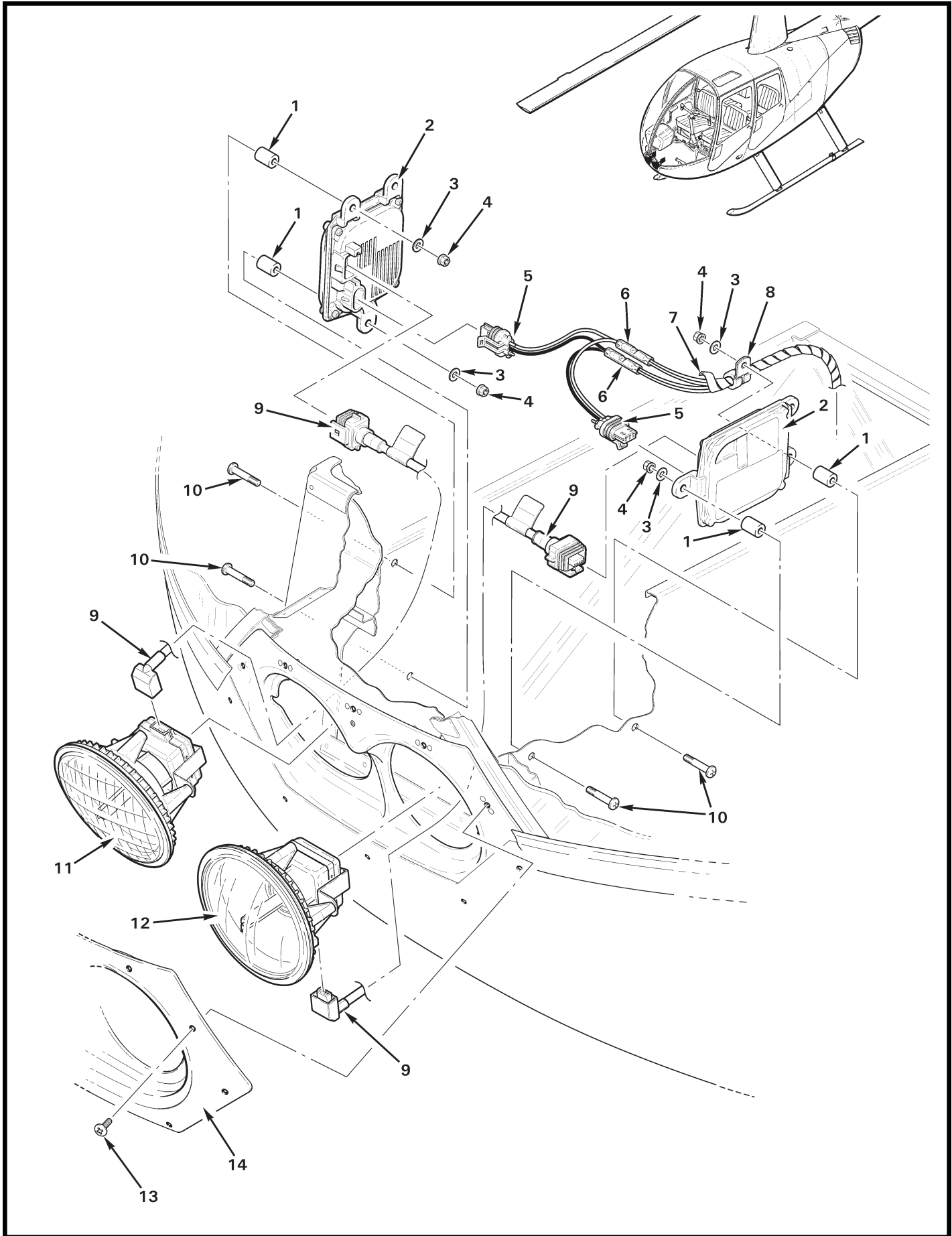
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|---|----------------|---|-------------|----------------|--------------|
| NAVIGATION LIGHTS INSTALLATION | | | | | |
| 8-29-1 | D049-3 | Wire Harness Assembly (Ref; see Figure 2-9) | | | |
| 2 | - | Housing | O | | 1 |
| 3 | A698-3 | Tail Light Assembly (Incandescent, 14-volt ships. Includes items 2, and 4 thru 9; replacement for A698-2, also order item 1.) | X | | 1 |
| 4 | A701-1 | Foil Tape | X | | A/R |
| 5 | 34-0412070-63* | Lamp (halogen, 14-volt ships; alternate part no. A508-14) | X | | 1 |
| | 34-0428070-64* | Lamp (halogen, 28-volt ships; alternate part no. A508-28V) | X | | 1 |
| 6 | A455* | Gasket | X | | 1 |
| 7 | A457A* | Lens | X | | 1 |
| 8 | A425* | Lens Retainer | X | | 1 |
| 9 | - | Screw | O | | 2 |
| 10 | MS21042L06 | Nut | O | | 3 |
| 11 | NAS1149FN616P | Washer | X | | 3 |
| 12 | C272 | Chin Assembly (Ref) | | | |
| 13 | MS35206-230 | Screw | X | | 3 |
| 14 | MS3367-4-9 | Ty-Rap | X | | 1 |
| 15 | A779-1 | Gasket | X | | 1 |
| 16 | W1282* | Lens Retainer | O | | 1 |
| 17 | - | Screw | O | | 1 |
| 18 | B263-10 | Housing | X | | 1 |
| | B263-1 | Pin | X | | 1 |
| 19 | A039-5 | Position Light Assembly - RH (green lens; includes items 16 thru 18, and 21 thru 23; not shown) | X | | 1 |
| 20 | A039-4 | Position Light Assembly - LH (red lens; includes items 16 thru 18, and 21 thru 23) | X | | 1 |
| 21 | W1290-14* | Lamp (14-volt ships) | X | | 1 |
| | W1290-28* | Lamp (28-volt ships) | X | | 1 |
| 22 | - | Gasket | O | | 1 |
| 23 | W1284G* | Lens - RH (green) | X | | 1 |
| | D369-2 | Lens - RH (green, not shown**) | X | | 1 |
| | W1284R* | Lens - LH (red, not shown) | X | | 1 |
| | D369-1 | Lens - LH (red, not shown**) | X | | 1 |
| <p>* Whelen part no. ** For Pop-Out Float ships, see Figure 11-9. (Cont'd)</p> | | | | | |

| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|--|----------------|--|-------------|----------------|--------------|
| NAVIGATION LIGHTS INSTALLATION (Cont'd) | | | | | |
| 8-29-24 | 01-0771011-03* | Tail Light Assembly (LED, 28-volt ships. Includes items 2, and 25 thru 28) | X | | 1 |
| 25 | 38-0231061-00* | Gasket | O | | 1 |
| 26 | 68-3970991-30* | Lens | O | | 1 |
| 27 | 19-0150350-03* | Lens Retainer | O | | 1 |
| 28 | 14-0050505-18* | Screw | O | | 1 |
| * Whelen part no. | | | | | |

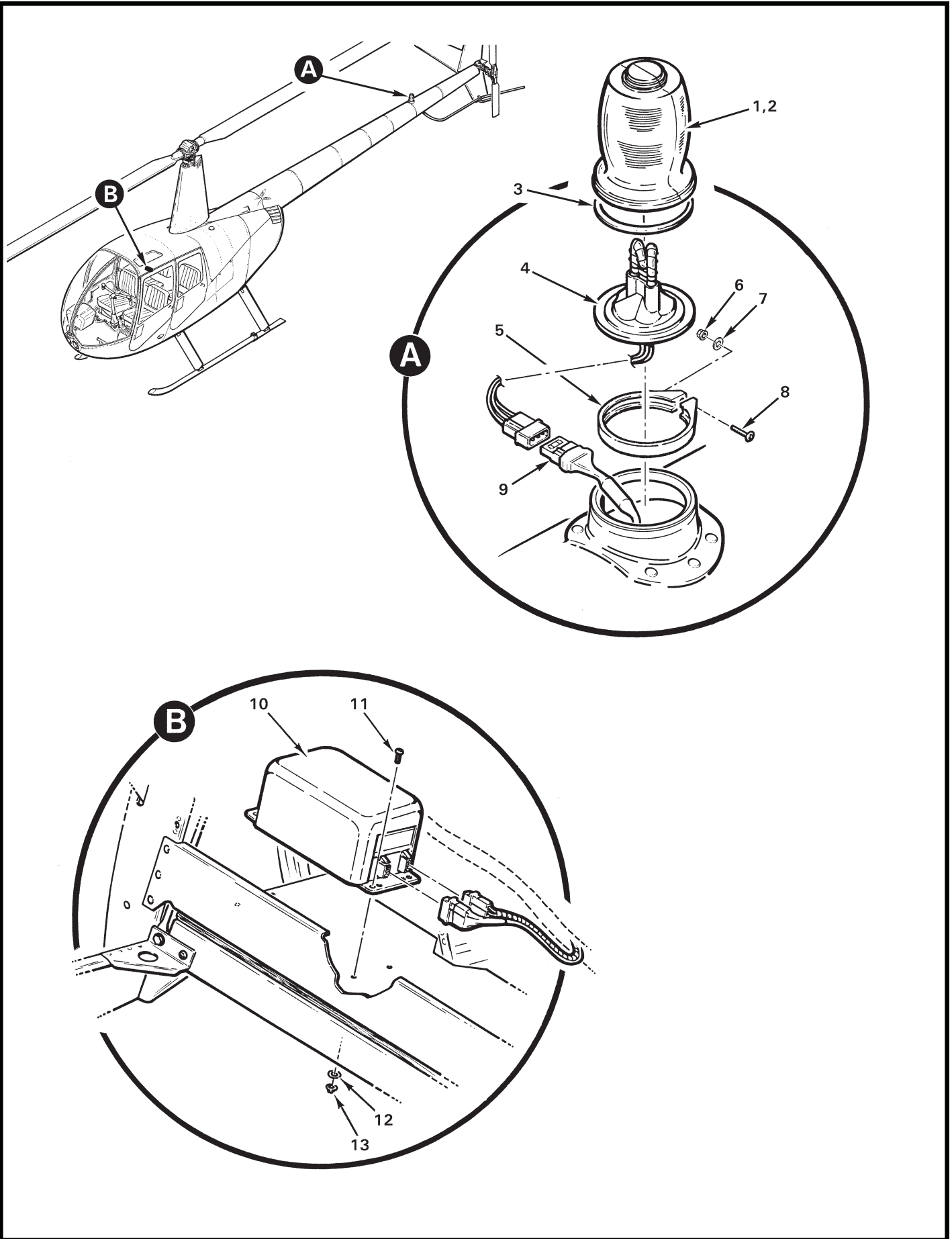
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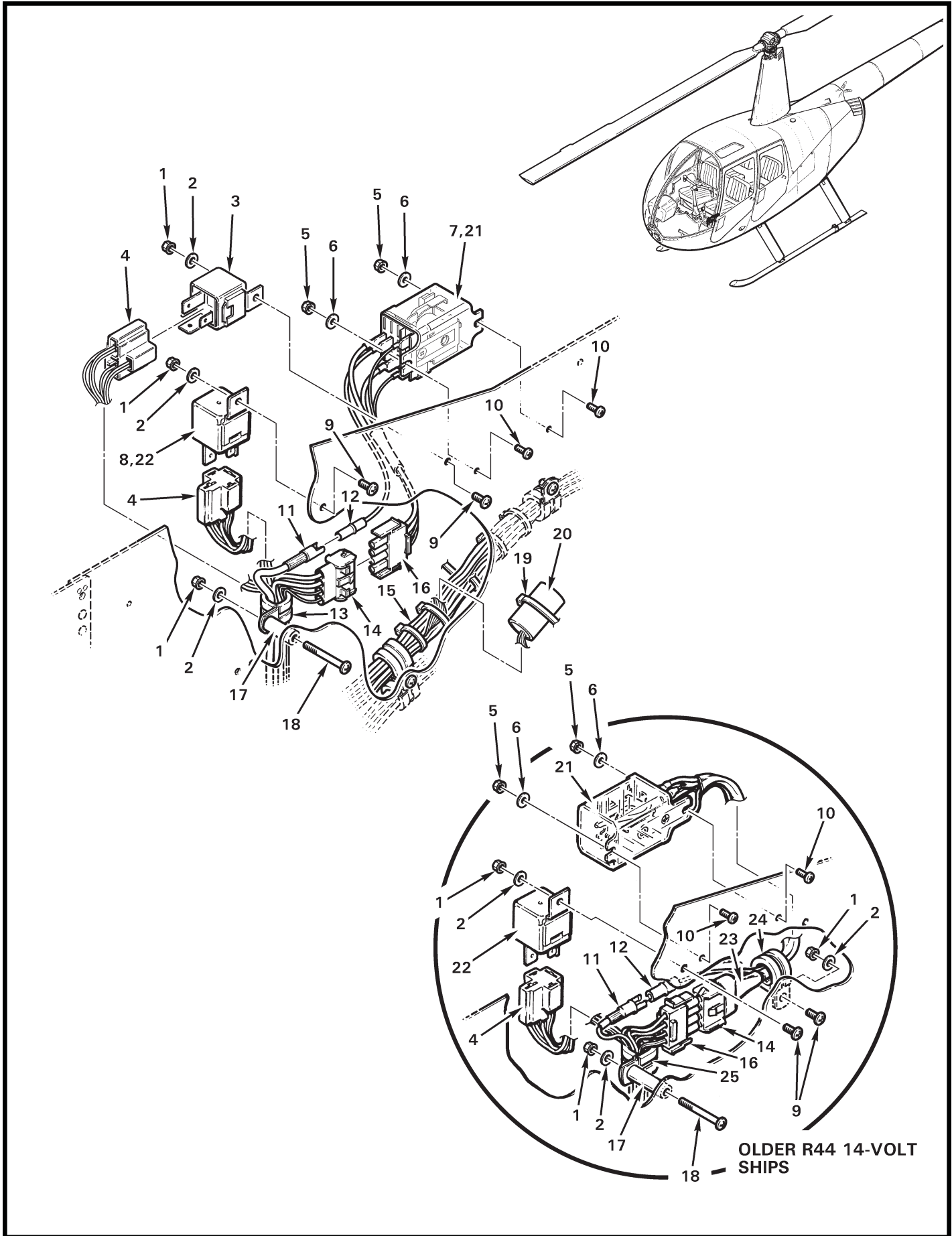
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|------------------------------------|-------------|---|----------------|----------------------|--------------------|
| LANDING LIGHTS INSTALLATION | | | | | |
| 8-29D-1 | MS25171-2S | Nipple | X | | 4 |
| 2 | - | Screw | O | | 4 |
| 3 | - | Lockwasher | O | | 4 |
| 4 | MS3367-4-9 | Ty-rap | X | | 4 |
| 5 | B161-4 | Spirap | X | | A/R |
| 6 | B196-26 | Lamp (14-volt, includes items 2 and 3. GE part no. Q4509) | X | | 2 |
| | B196-27 | Lamp (28-volt, includes items 2 and 3. GE part no. 4591) | X | | 2 |
| 7 | AN526C832R8 | Screw | X | | 10 |
| 8 | C526-1 | Retainer | X | | 1 |



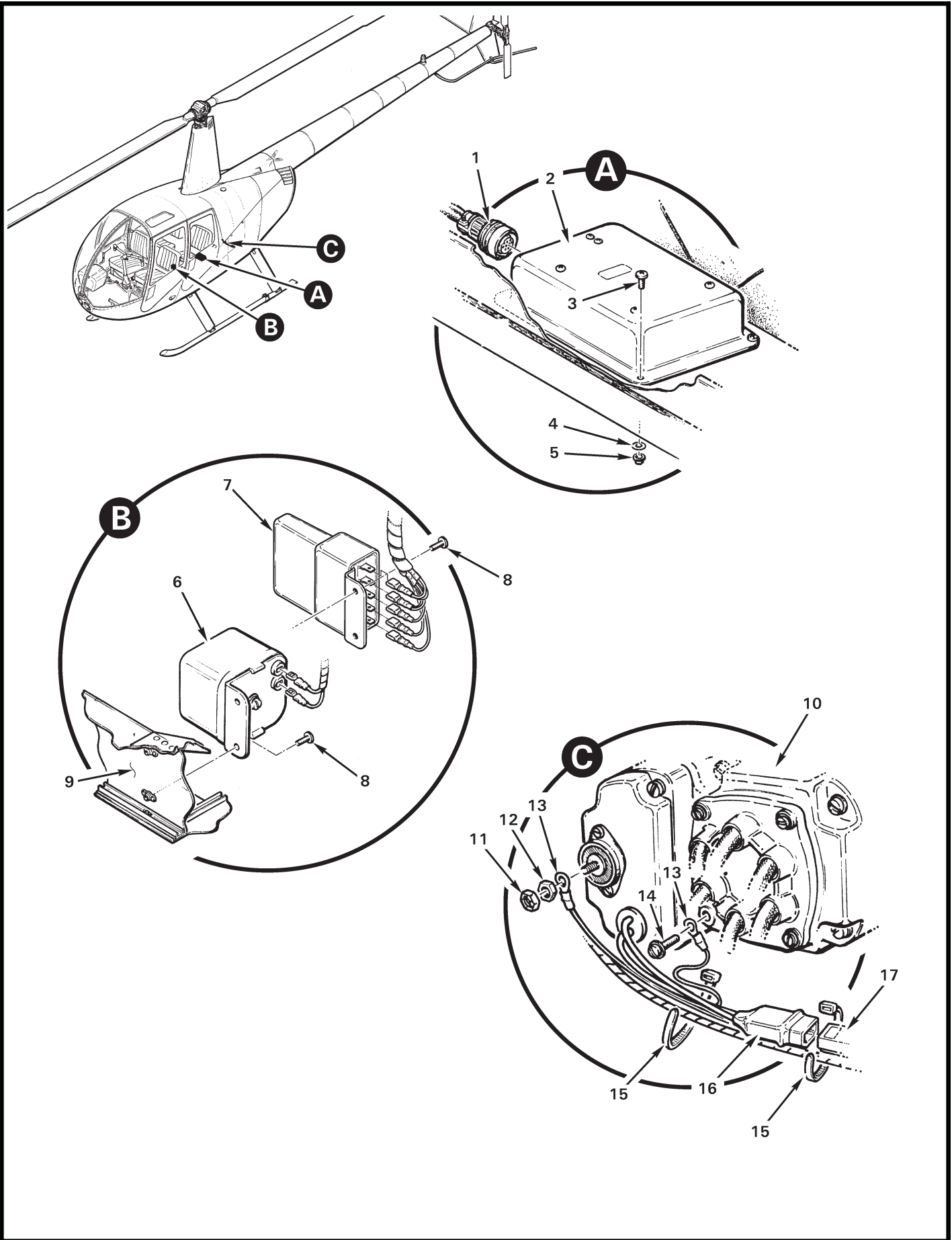
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|--|---------------|--|-------------|----------------|--------------|
| HID LANDING LIGHTS INSTALLATION | | | | | |
| 8-29F-1 | A130-38 | Spacer | X | | 4 |
| 2 | B557-3 | Ballast (28-volt; includes item 5) | X | | 2 |
| | B557-5 | Ballast (14-volt; includes item 5) | X | | 2 |
| 3 | NAS1149FN832P | Washer | X | | 4 |
| 4 | MS21042L08 | Nut | X | | 4 |
| 5 | B557-7 | Power Cord (connector and wires) | X | | 2 |
| 6 | B261-3 | Splice | X | | 2 |
| 7 | B161-4 | Spirap | X | | A/R |
| 8 | MS21919WDG4 | Clamp | X | | 1 |
| 9 | B557-4 | Cable | X | | 2 |
| 10 | MS27039C0816 | Screw | X | | 4 |
| 11 | B557-2 | Lamp - RH (HID, taxi) | X | | 1 |
| 12 | B557-1 | Lamp - LH (HID, landing) | X | | 1 |
| 13 | AN526C832R8* | Screw (Ref) | | | |
| 14 | C526-1* | Retainer (Ref) | | | |
| * See Figure 8-29D. | | | | | |



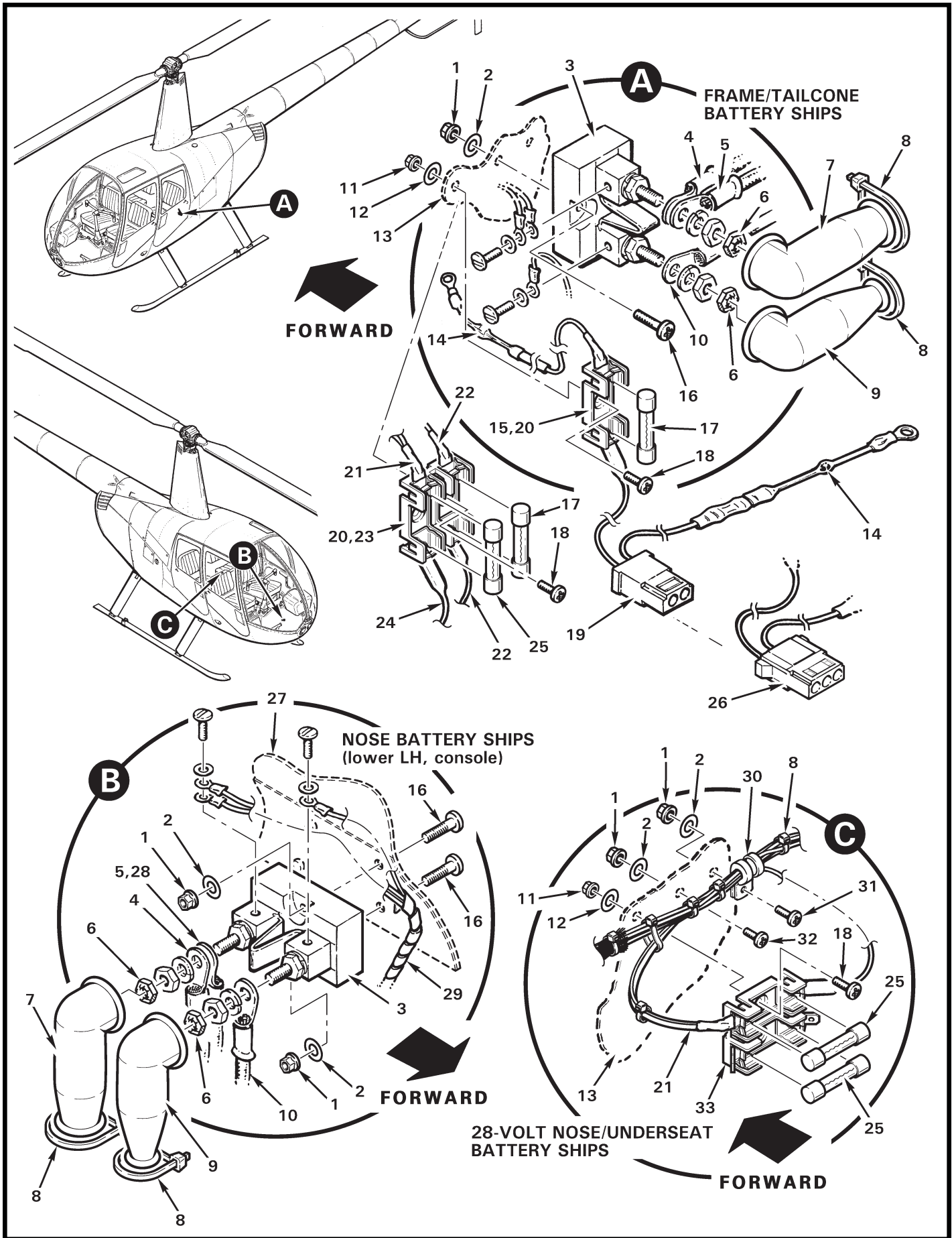
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|----------------------------------|----------------|---|-------------|----------------|--------------|
| STROBE LIGHT INSTALLATION | | | | | |
| 8-31-1 | A708-2 | Strobe Light Assembly (Incl items 2 [A708-7], 3 [A467] thru 5, and 8) | X | | 1 |
| | A708-11 | Strobe Light Assembly (Incl items 2 [A708-12], 3 [A467A] thru 5, and 8) | X | | 1 |
| 2 | A708-7 | Lens Assembly (red) | X | | 1 |
| | A708-12 | Lens Assembly (red and white) | X | | 1 |
| 3 | A467* | Gasket (use with A708-2 assembly) | X | | 1 |
| | A467A* | Gasket (use with A708-11 assembly) | X | | 1 |
| 4 | A469B* | Flash Tube Assembly | X | | 1 |
| 5 | 01-0450685-00* | Clamp | X | | 1 |
| 6 | MS21042L06 | Nut | X | | 1 |
| 7 | NAS620-6 | Washer | X | | 1 |
| 8 | - | Screw | O | | 1 |
| 9 | B263-15 | Housing (Ref; see Figure 2-7) | | | |
| 10 | A708-1 | Strobe Power Supply | X | | 1 |
| 11 | MS27039C0806 | Screw | X | | 4 |
| 12 | NAS1149FN816P | Washer | X | | 4 |
| 13 | MS21042L08 | Nut | X | | 4 |
| *Whelen part no. | | | | | |



| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|------------------------------|---------------|--|-------------|----------------|--------------|
| ELECTRICAL COMPONENTS | | | | | |
| 8-33-1 | 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 |



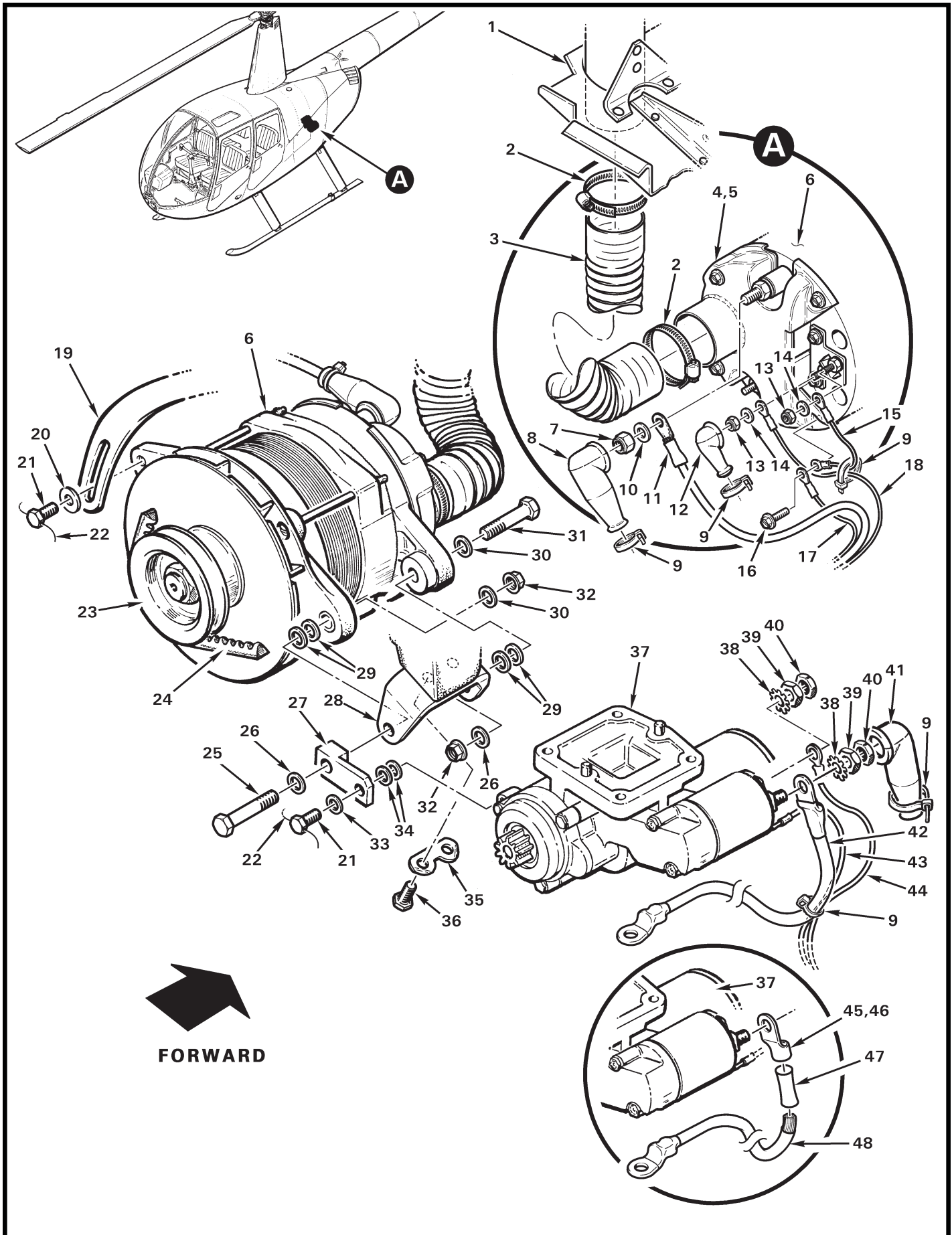
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|-------------------------|----------------|--|-------------|----------------|--------------|
| | | ELECTRICAL COMPONENTS | | | |
| 8-33B-1 | MS3116F12-10S | Plug | X | | 1 |
| 2 | D278-1 | Controller Assembly - Governor (ship S/N 0001 thru 9999) | X | | 1 |
| | R9542 | D278-1 Controller Assembly - Governor (overhauled exchange) | X | | 1 |
| | D278-2 | Controller Assembly - Governor (ship S/N 10001 and higher) | X | | 1 |
| | R9614 | D278-2 Controller Assembly - Governor (overhauled exchange) | X | | 1 |
| 3 | MS27039C0806 | Screw | X | | 4 |
| 4 | NAS1149FN816P | Washer | X | | 4 |
| 5 | MS21042L08 | Nut | X | | 4 |
| 6 | 10-176487-121* | Magneto Start Booster (14-volt ships) | X | | 1 |
| | 10-357487-241* | Magneto Start Booster (28-volt ships) | X | | 1 |
| 7 | SS1002** | Magneto Start Booster (ship S/N 10001 and higher) | 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 (Ref) | X | | 1 |
| | B263-2 | Socket | X | | 2 |
| | | * Teledyne Continental Motors part no. ** Unison part no. | | | |



| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|------------------------------|--------------------------|---|-------------|----------------|--------------|
| ELECTRICAL COMPONENTS | | | | | |
| 8-35-1 | 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* C059-1602* | Wire (Ref.) 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 |
| | | *Ship S/N 10001 and higher only. | | | |
| | | (Cont'd) | | | |

| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|----------------------------------|--------------|--|----------------|----------------------|--------------------|
| ELECTRICAL COMPONENTS | | | | | |
| 8-35-26 | 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 |

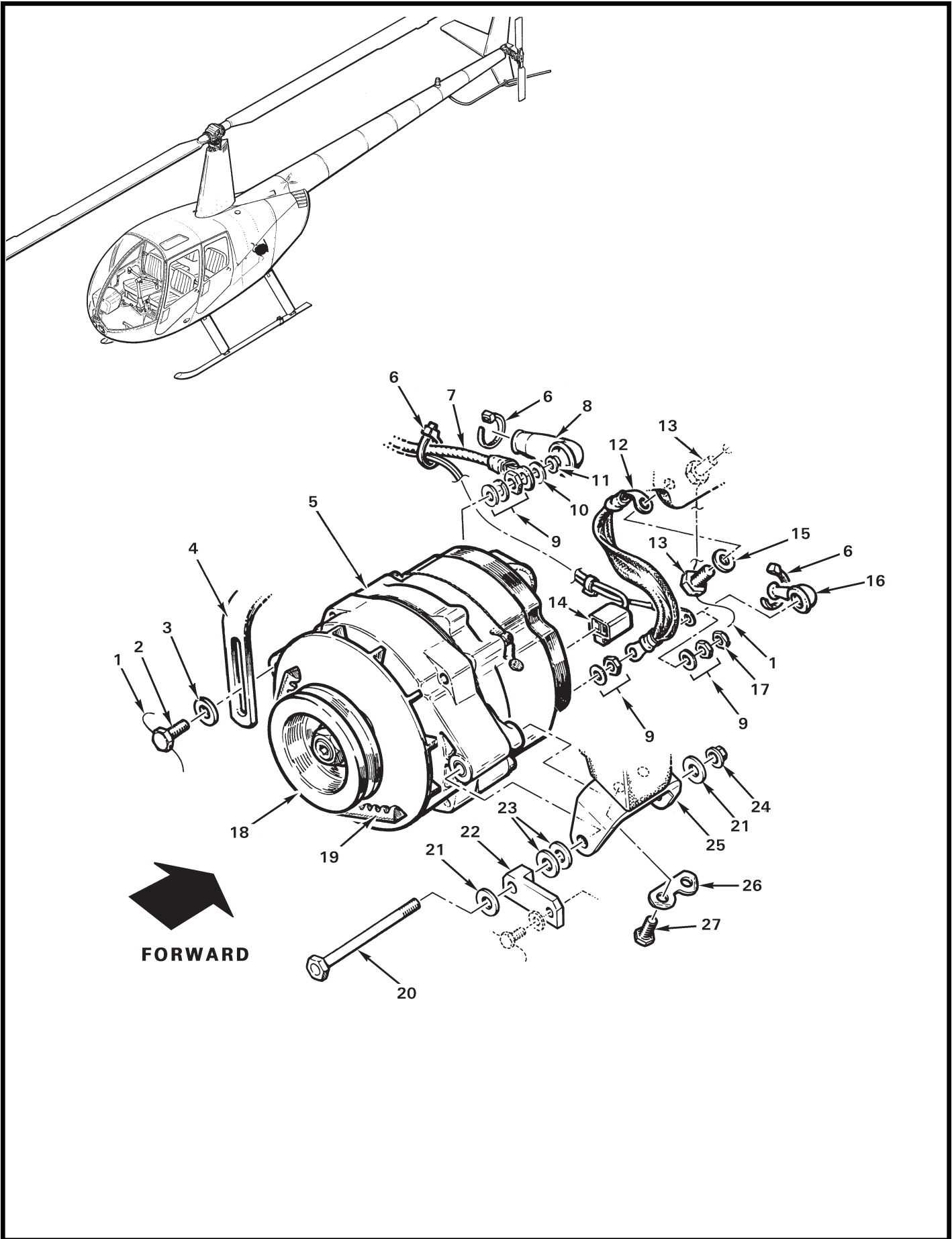
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| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|---------------|--|-------------|----------------|--------------|
| | | ALTERNATOR AND STARTER INSTALLATION | | | |
| 8-37-1 | D754-4 | Baffle Assembly (O-540 ships) | X | | 1 |
| | D754-1 | Baffle Assembly (IO-540 ships) | X | | 1 |
| 2 | B277-24 | Clamp | X | | 2 |
| 3 | A785-32 | Hose | X | | 1 |
| 4 | D747-5 | Shroud Weldment (install using item 5) | X | | 1 |
| 5 | B270-20 | Adhesive | X | | A/R |
| 6 | D748-2 | Alternator Assembly, 70-Amp (14-volt ships. Incl items 4, 5, 7, 10, 13, 14, and 23.) | X | | 1 |
| | R9110 | D748-2 ALX-8521LS/RS*** Alternator Assembly (overhauled exchange) | X | | 1 |
| | D748-1 | Alternator Assembly, 70-Amp (28-volt ships. Incl items 4, 5, 7, 10, 13, 14, and 23.) | X | | 1 |
| | R9584 | D748-1 ALU-8521LS/RS*** Alternator Assembly (overhauled exchange) | X | | 1 |
| 7 | MS21044N4 | Nut | X | | 1 |
| 8 | MS25171-2S | Nipple | X | | 2 |
| 9 | MS3367-4-9 | Ty-Rap | X | | 3 |
| 10 | NAS1149F0432P | Washer | X | | 1 |
| 11 | A780-36 | Cable Assembly (aft and tailcone battery) | X | | 1 |
| | A780-37 | Cable Assembly (forward and under seat battery) | X | | 1 |
| 12 | MS25171-1S | Nipple | X | | 1 |
| 13 | MS21044N06 | Nut | X | | 2 |
| 14 | NAS1149FN616P | Washer | X | | 2 |
| 15 | C059-24 | Wire (Ref) | | | |
| 16 | - | Screw (supplied with alternator) | O | | 4 |
| 17 | C059-33 | Wire (Ref) | | | |
| 18 | C059-23 | Wire (Ref) | | | |
| 19 | B200-3 | Arm | X | | 1 |
| 20 | STD-1727* | Washer | X | | 1 |
| 21 | LW-31H0.75* | Bolt (Ref; supplied with engine) | | | |
| 22 | MS20995C32 | 0.032 in. dia. Safety Wire | X | | A/R |
| 23 | 36B19484* | Pulley | X | | 1 |
| 24 | B173-3** | V-Belt | X | | 1 |
| | | *Lycoming part no. **Use with 31M22972* ring gear. Use B173-1 v-belt with 31M21951* ring gear. ***Kelly Aerospace part no. | | | |
| | | (Cont'd) | | | |

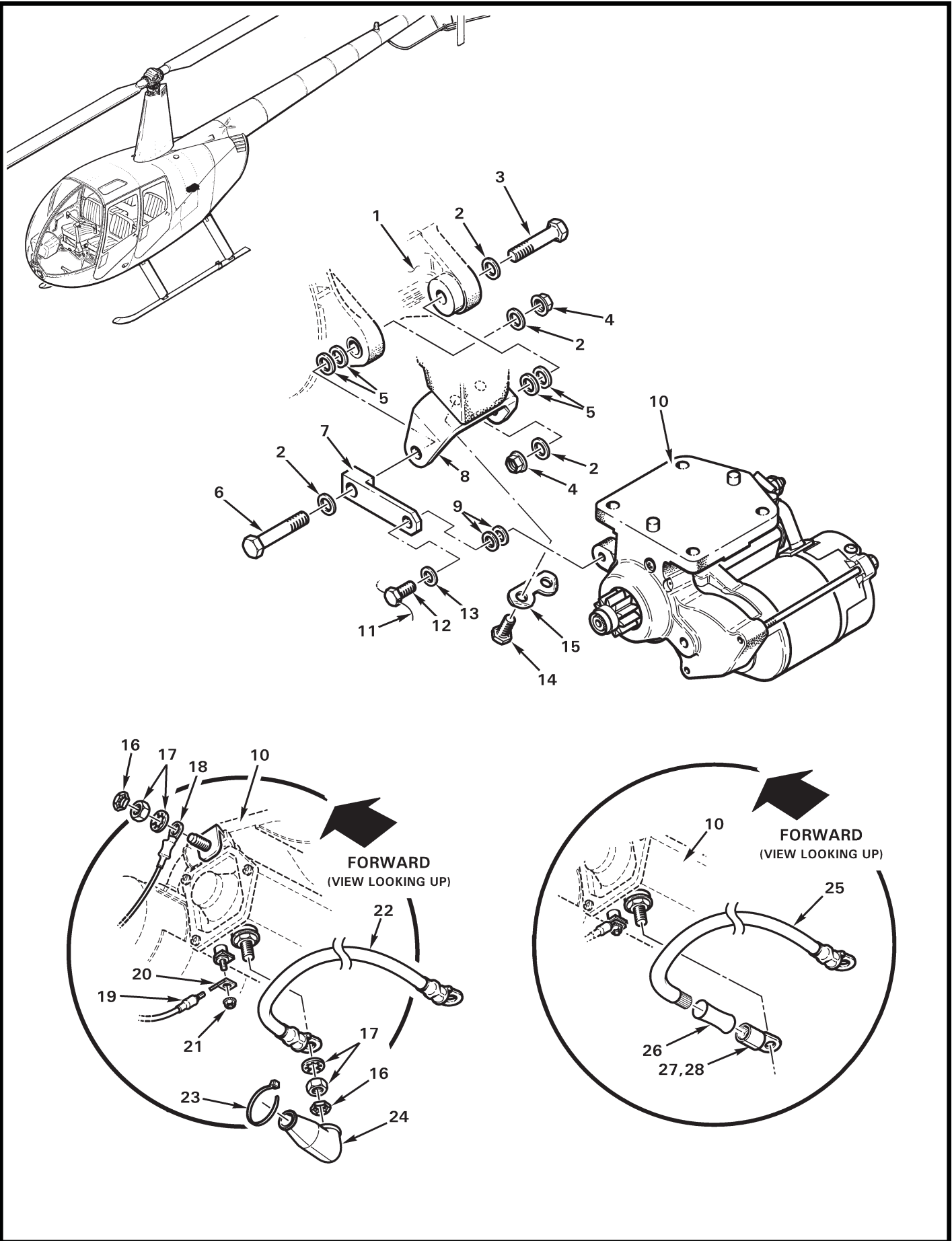
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|---------------|---|-------------|----------------|--------------|
| | | ALTERNATOR AND STARTER INSTALLATION (Cont'd) | | | |
| 8-37-25 | AN6-17A | Bolt (AN6-16A or AN6-20A may be used to obtain 2-4 threads beyond nut.) | X | | 1 |
| 26 | NAS1149F0632P | Washer | X | | 4 |
| 27 | B299-1 | Link | X | | 1 |
| 28 | B200-1 | Bracket | X | | 1 |
| 29 | NAS1149F0663P | Washer (NAS1149F0632P or NAS1149D0616J as required for shimming; IO-540 ships only) | X | | A/R |
| | STD-690* | Washer (76534* shim, as required for shimming; O-540 ships only) | X | | A/R |
| 30 | NAS1149F0632P | Washer (IO-540 ships only) | X | | 2 |
| | STD-690* | Washer (O-540 ships only) | X | | 2 |
| 31 | AN6-15A | Bolt | X | | 1 |
| 32 | MS21042L6 | Nut | X | | 2 |
| 33 | STD-35* | Washer | X | | 1 |
| 34 | NAS1149F0532P | Washer (or NAS1149F0516P, as required for shimming) | X | | A/R |
| 35 | 73383* | Lockplate | X | | 1 |
| 36 | LW-31-0.94* | Bolt (supplied with engine) | X | | 2 |
| 37 | BC315-100-2** | Starter (14-volt ships. Includes items 38 and 39.) | X | | 1 |
| | R9036 | BC315-100-2** Starter (overhauled exchange) | X | | 1 |
| | BC315-100-4** | Starter (28-volt ships. Includes items 38 and 39.) | X | | 1 |
| | R9572 | BC315-100-4** Starter (overhauled exchange) | X | | 1 |
| 38 | - | Lockwasher (Ref) | | | |
| 39 | - | Nut (Ref) | | | |
| 40 | B330-16 | Palnut (14-volt ships only) | X | | 2 |
| 41 | MS25171-2S | Nipple (14-volt aft battery and all 28-volt ships) | X | | 1 |
| | MS25171-4S | Nipple (14-volt forward/under seat battery not shown) | X | | 1 |
| 42 | A780-26 | Cable Assembly (14/28-volt aft battery [O-540 ships]) | X | | 1 |
| | A780-24 | Cable Assembly (28-volt ENG tailcone battery [O-540 ships]) | X | | 1 |
| | A780-39 | Cable Assembly (28-volt aft, ENG/Police tailcone battery [IO-540 ships]) | X | | 1 |
| 43 | C059-582 | Wire (Ref) | | | |
| 44 | C059-591 | Wire (Ref; O-540 ships) | | | |
| | C059-1602 | Wire (Ref; IO-540 ships) | | | |
| | | *Lycoming part no. | | | |
| | | **B&C Specialty Products part no. | | | |
| | | (Cont'd) | | | |

| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|----------------------------------|-------------|---|----------------|----------------------|--------------------|
| | | ALTERNATOR AND STARTER INSTALLATION (Cont'd) | | | |
| 8-37-45 | B260-23 | Terminal | X | | 2 |
| 46 | B260-20 | Terminal | X | | 2 |
| 47 | B158-8 | Heat Shrink | X | | A/R |
| 48 | C067-587 | Wire (Ref; 14-volt forward/under seat battery; includes items 45[1] and 47) | X | | 1 |
| | C067-1386 | Wire (Ref; 28-volt forward/under seat battery; includes items 46[1] and 47) | X | | 1 |

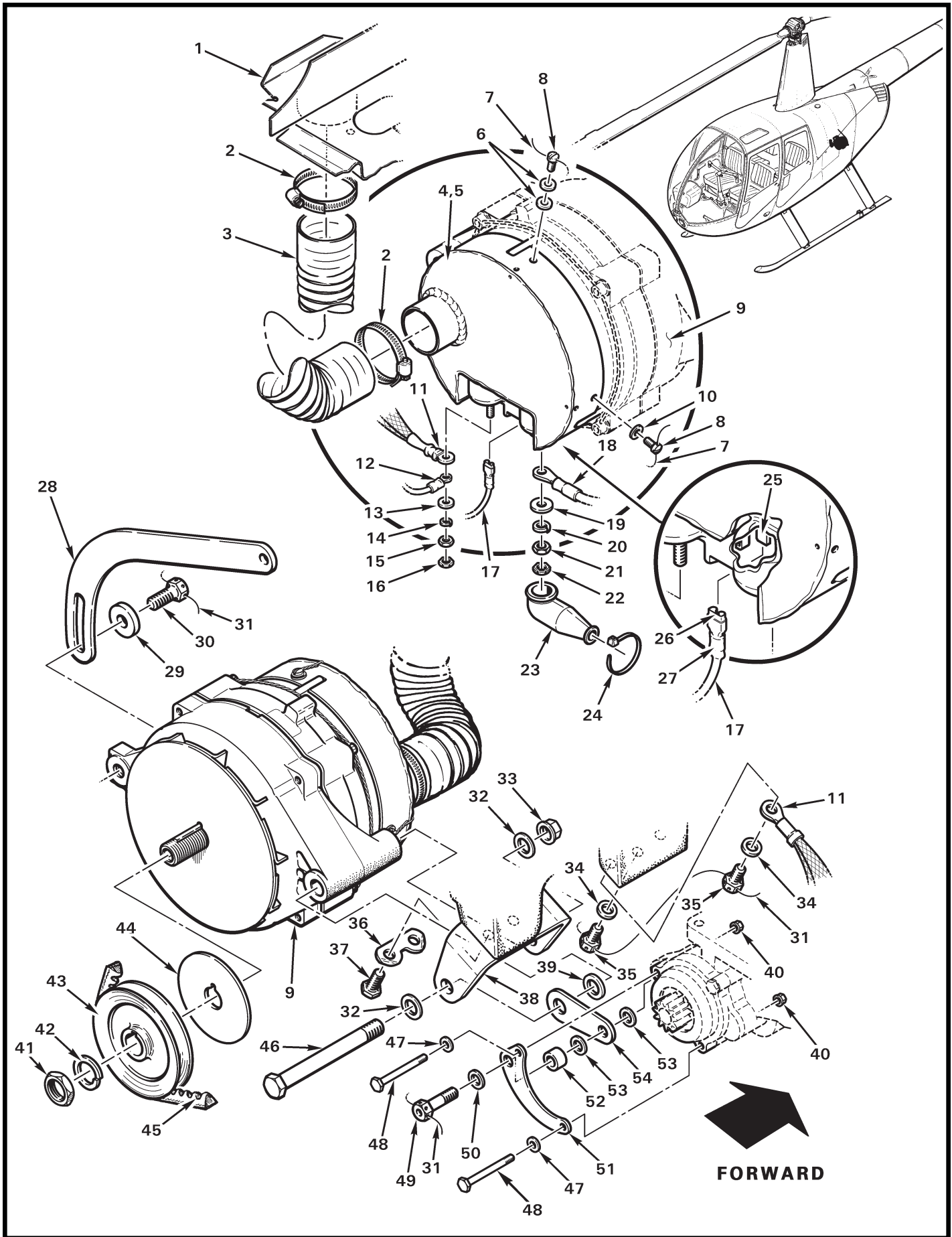


8-38 FIGURE 8-39 NATIONAL AIRPARTS ALTERNATOR INSTALLATION Issued: JUL 2008

| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|---------------|---|-------------|----------------|--------------|
| | | NATIONAL AIRPARTS ALTERNATOR INSTALLATION | | | |
| 8-39-1 | MS20995C32 | 0.032 in. dia. Safety Wire | X | | A/R |
| 2 | LW-31H0.75* | Bolt (Ref; supplied with engine) | | | |
| 3 | STD-1727* | Washer | X | | 1 |
| 4 | - | Arm (black; supplied with item 5) | O | | 1 |
| 5 | N300P324R(L) | Alternator 70-Amp (Ref; 28-volt Police ships only. National Airparts part no. Incl items 4, 9, and 18. Superseded; for Police ships see Figure 8-39C [D729-1; 130-Amp], for ENG Figure 8-37 [D748-1; 70-Amp Kelly Aerospace]) | O | | 1 |
| 6 | MS3367-4-9 | Ty-Rap | X | | 3 |
| 7 | A780-36 | Cable Assembly (aft and tailcone battery) | X | | 1 |
| | A780-37 | Cable Assembly (forward and under seat battery) | X | | 1 |
| 8 | MS25171-2S | Nipple | X | | 1 |
| 9 | - | Hardware (supplied with item 5) | O | | 1 |
| 10 | NAS1149F0432P | Washer | X | | 1 |
| 11 | MS21042L4 | Nut | X | | 1 |
| 12 | A780-13 | Cable Assembly (ground; Ref) | | | |
| 13 | MS20074-05-04 | Bolt | X | | 2 |
| 14 | N502 | Housing (Ref, no longer available) | | | |
| | N1340 | Receptacle (Ref, no longer available) | | | |
| 15 | NAS1149F0532P | Washer | X | | 2 |
| 16 | MS25171-1S | Nipple | X | | 1 |
| 17 | B330-12 | Palnut | X | | 1 |
| 18 | - | Pulley (supplied with item 5) | X | | 1 |
| 19 | B173-1** | V-Belt | X | | 1 |
| 20 | NAS6606-50 | Bolt | X | | 2 |
| 21 | - | Washer (supplied with engine) | O | | 2 |
| 22 | B299-2 | Link (use only with item 5) | X | | 1 |
| 23 | - | Washer (as required for shimming; supplied with engine) . . | X | | A/R |
| 24 | MS21042L6 | Nut | X | | 2 |
| 25 | 74324* | Bracket | X | | 1 |
| 26 | 73383* | Lockplate | X | | 1 |
| 27 | LW-31-0.94* | Bolt | X | | 2 |
| | | *Lycoming part no. **Use with 31M21951* ring gear. | | | |



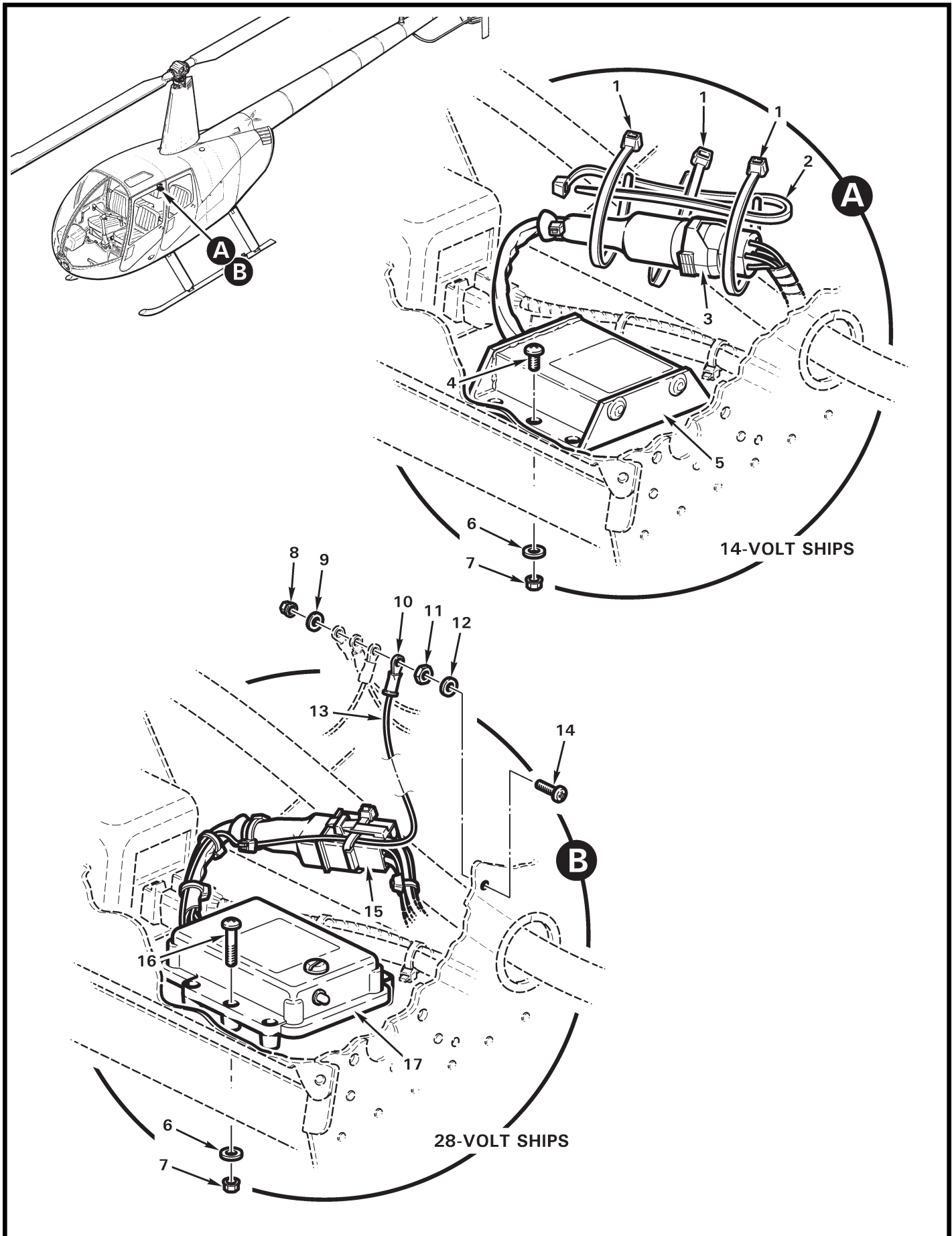
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|---------------|--|-------------|----------------|--------------|
| | | SKY-TEC STARTER INSTALLATION | | | |
| 8-39B-1 | D748 | Alternator Assy (Ref; see Figure 8-37) | | | |
| 2 | NAS1149F0632P | Washer | X | | 4 |
| 3 | AN6-15A | Bolt | X | | 1 |
| 4 | MS21042L6 | Nut | X | | 2 |
| 5 | NAS1149F0663P | Washer (NAS1149F0632P, NAS1149D0616J as required for shimming) | X | | A/R |
| 6 | AN6-17A | Bolt (AN6-16A or AN6-20A may be used to obtain 2-4 threads beyond nut) | X | | 1 |
| 7 | B299-3 | Link | X | | 1 |
| 8 | B200-1 | Bracket | X | | 1 |
| 9 | NAS1149F0532P | Washer (or NAS1149F0516P as required for shimming) | X | | A/R |
| 10 | 149-12HT/H* | Starter (14-volt ships. Includes items 17, 20, and 21.) | O | | 1 |
| | 149-24HT/H* | Starter (28-volt ships. Includes items 17, 20, and 21.) | O | | 1 |
| 11 | MS20995C32 | 0.032 in. dia. Safety Wire | X | | A/R |
| 12 | LW-31H0.75** | Bolt (Ref; supplied with engine) | | | |
| 13 | STD-35** | Washer | X | | 1 |
| 14 | LW-31-0.94** | Bolt | X | | 1 |
| 15 | 73383** | Lockplate | X | | 1 |
| 16 | B330-16 | Palnut | X | | 2 |
| 17 | - | Washer and Nut (Ref, supplied with starter) | | | |
| 18 | C059-591 | Wire (Ref; O-540 ships. C059-1602, IO-540 ships) | | | |
| 19 | C059-582 | Wire (Ref) | | | |
| 20 | - | Terminal (Ref) | | | |
| 21 | - | Nut (Ref) | | | |
| 22 | A780-26 | Cable Assy (14/28-volt aft battery [O-540 ships]) | X | | 1 |
| | A780-24 | Cable Assy (28-volt ENG tailcone battery [O-540 ships]) | X | | 1 |
| | A780-39 | Cable Assy (28-volt, ENG/Police tailcone battery [IO-540 ships]) | X | | 1 |
| 23 | MS3367-4-9 | Ty-Rap | X | | 3 |
| 24 | MS25171-2S | Nipple (14-volt aft batt and all 28-volt ships) | X | | 1 |
| | MS25171-4S | Nipple (14-volt forward/under seat batt; not shown) | X | | 1 |
| 25 | C067-587 | Wire (14-volt forward/under seat batt; Incl item 27[1]) | X | | 1 |
| | C067-1386 | Wire (28-volt forward/under seat batt; Incl item 28[1]) | X | | 1 |
| 26 | B158-8 | Heat Shrink. | X | | A/R |
| 27 | B260-23 | Terminal (for C067-587 wire). | X | | 2 |
| 28 | B260-20 | Terminal (for C067-1386 wire). | X | | 2 |
| | | *Sky-Tec part no. **Lycoming part no. | | | |



| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|--|---------------|--|-------------|----------------|--------------|
| 130-AMP ALTERNATOR INSTALLATION | | | | | |
| 8-39D-1 | D754-1 | Baffle Assembly | X | | 1 |
| 2 | B277-24 | Clamp | X | | 2 |
| 3 | A785-32 | Hose | X | | 1 |
| 4 | D726-1 | Shroud Weldment (Used with item 39 [D729-1; O-540], for spares; not shown.) | X | | 1 |
| 5 | D726-8 | Shroud Weldment (Used with item 39 [D729-2; IO-540], for spares; not shown.) | X | | 1 |
| 6 | NAS1149F0363P | Washer | X | | 2 |
| 7 | MS20995C20 | 0.020 in. dia. Safety Wire | X | | A/R |
| 8 | AN503-10-6 | Screw | X | | 3 |
| 9 | D729-2 | Alternator Assembly - 130-Amp (28-volt; IO-540 ships. Includes items 5, 7, 8, 10, 13 thru 16, 19 thru 22, 25, and 41 thru 44.) | X | | 1 |
| | D729-1 | Alternator Assembly - 130-Amp (28-volt; O-540 ships. Includes items 4, 7, 8, 10, 13 thru 16, 19 thru 22, 25, and 41 thru 44.) | X | | 1 |
| 10 | NAS1149F0332P | Washer | X | | 2 |
| 11 | A780-38 | Cable Assembly (ground) | X | | 1 |
| 12 | C059-33 | Wire (Ref) | | | |
| 13 | - | Flat Washer | O | | 1 |
| 14 | - | Lock Washer | O | | 1 |
| 15 | - | Nut | O | | 1 |
| 16 | B330-8 | Palnut | X | | 1 |
| 17 | C059-23 | Wire (Ref) | | | |
| 18 | A780-36 | Cable Assembly (aft and tailcone battery) | X | | 1 |
| | A780-37 | Cable Assembly (forward and under seat battery) | X | | 1 |
| 19 | - | Flat Washer | O | | 1 |
| 20 | - | Lockwasher | O | | 1 |
| 21 | - | Nut | O | | 1 |
| 22 | B330-12 | Palnut | X | | 1 |
| 23 | MS25171-2S | Nipple | X | | 1 |
| 24 | MS3367-4-9 | Ty-Rap | X | | 1 |
| 25 | - | Terminal ("FLD"; Ref) | | | |
| 26 | B262-4 | Receptacle | X | | 1 |
| 27 | B158-4 | Heat Shrink | X | | A/R |
| (Cont'd) | | | | | |

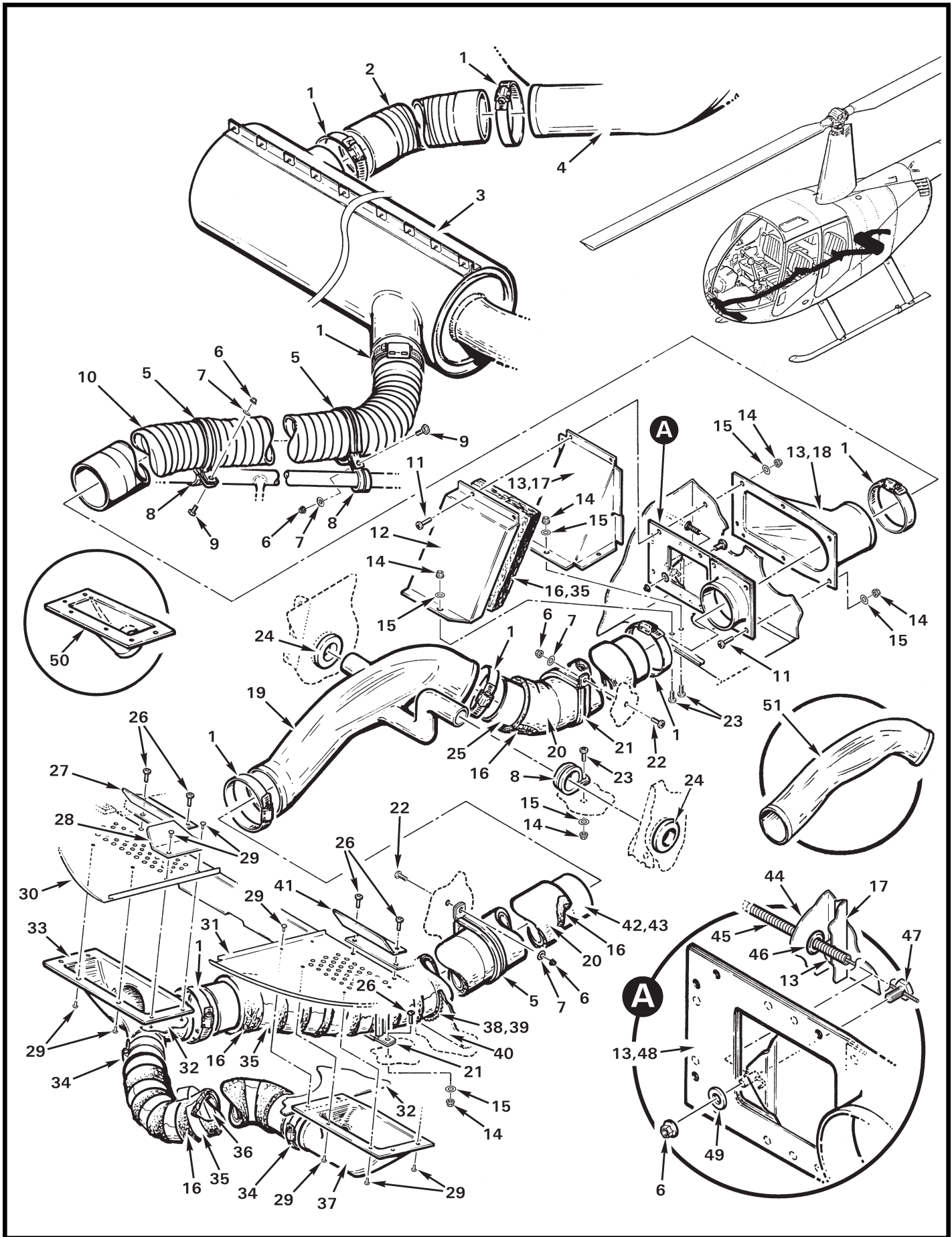
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|---|---------------|--------------------------------------|-------------|----------------|--------------|
| 130-AMP ALTERNATOR INSTALLATION | | | | | |
| 8-39D-28 | D728-1 | Arm | X | | 1 |
| 29 | A141-9 | Washer | X | | 1 |
| 30 | MS20074-06-07 | Bolt | X | | 1 |
| 31 | MS20995C32 | 0.032 in. dia. Safety Wire | X | | A/R |
| 32 | NAS1149F0732P | Washer | X | | 2 |
| 33 | NAS1291-7 | Nut | X | | 1 |
| 34 | NAS1149F0563P | Washer | X | | 2 |
| 35 | MS20074-05-04 | Bolt | X | | 2 |
| 36 | 73383* | Lockplate | X | | 1 |
| 37 | LW-31-0.94* | Bolt | X | | 2 |
| 38 | D728-3 | Bracket | X | | 1 |
| 39 | NAS1149F0763P | Washer | X | | 1 |
| 40 | - | Nut (Ref; supplied with starter) | O | | 3 |
| 41 | -** | Nut | O | | 1 |
| 42 | -** | Lockwasher | O | | 1 |
| 43 | D727-1 | Pulley | X | | 1 |
| 44 | D728-2 | Spacer | X | | 1 |
| 45 | B173-2 | V-Belt | X | | 1 |
| 46 | AN7-40A | Bolt | X | | 1 |
| 47 | - | Washer (Ref; supplied with starter) | O | | 3 |
| 48 | NAS6603-25 | Bolt | X | | 2 |
| 49 | MS20074-05-11 | Bolt | X | | 1 |
| 50 | NAS1149F0532P | Washer | X | | 1 |
| 51 | D728-6 | Plate | X | | 1 |
| 52 | C130-42 | Spacer | X | | 1 |
| 53 | NAS1149F0532P | Washer | X | | A/R |
| 54 | D728-5 | Link | X | | 1 |
| <p>* Lycoming part no. ** Items 41 and 42 may be obtained from Kelly Aerospace as part number 90-33.</p> | | | | | |

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8-39G FIGURE 8-39H ALTERNATOR CONTROL UNIT INSTALLATION Issued: JUL 2008

| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|---|---------------|--|----------------|----------------------|--------------------|
| ALTERNATOR CONTROL UNIT INSTALLATION | | | | | |
| 8-39H-1 | MS3367-5-9 | Ty-Rap | X | | 3 |
| 2 | MS3367-7-9 | Ty-Rap | X | | 1 |
| 3 | B264-23 | Housing | X | | 1 |
| | B264-2 | Socket | X | | 2 |
| | B264-4 | Socket | X | | 3 |
| 4 | MS27039C1-06 | Screw | X | | 2 |
| 5 | A942-3 | Alternator Control Unit (14-volt ships; includes housing) . | X | | 1 |
| 6 | NAS1149F0332P | Washer | X | | 2 |
| 7 | MS21042L3 | Nut | X | | 2 |
| 8 | MS21042L08 | Nut | X | | 1 |
| 9 | NAS1149FN816P | Washer | X | | 1 |
| 10 | - | Terminal - Stud (#8) | O | | 1 |
| 11 | B301-8 | Nut (Brass) | X | | 1 |
| 12 | NAS1149DN832H | Washer | X | | 1 |
| 13 | - | Wire (ground; Ref) | | | |
| 14 | AN515UB8R10 | Screw | X | | 1 |
| 15 | B263-19 | Housing | X | | 1 |
| | B263-2 | Socket | X | | 2 |
| | B263-4 | Socket | X | | 3 |
| 16 | MS27039C1-14 | Screw | X | | 1 |
| 17 | A942-4 | Alternator Control Unit (28-volt ships; includes items 10, 13, and housing) | X | | 1 |

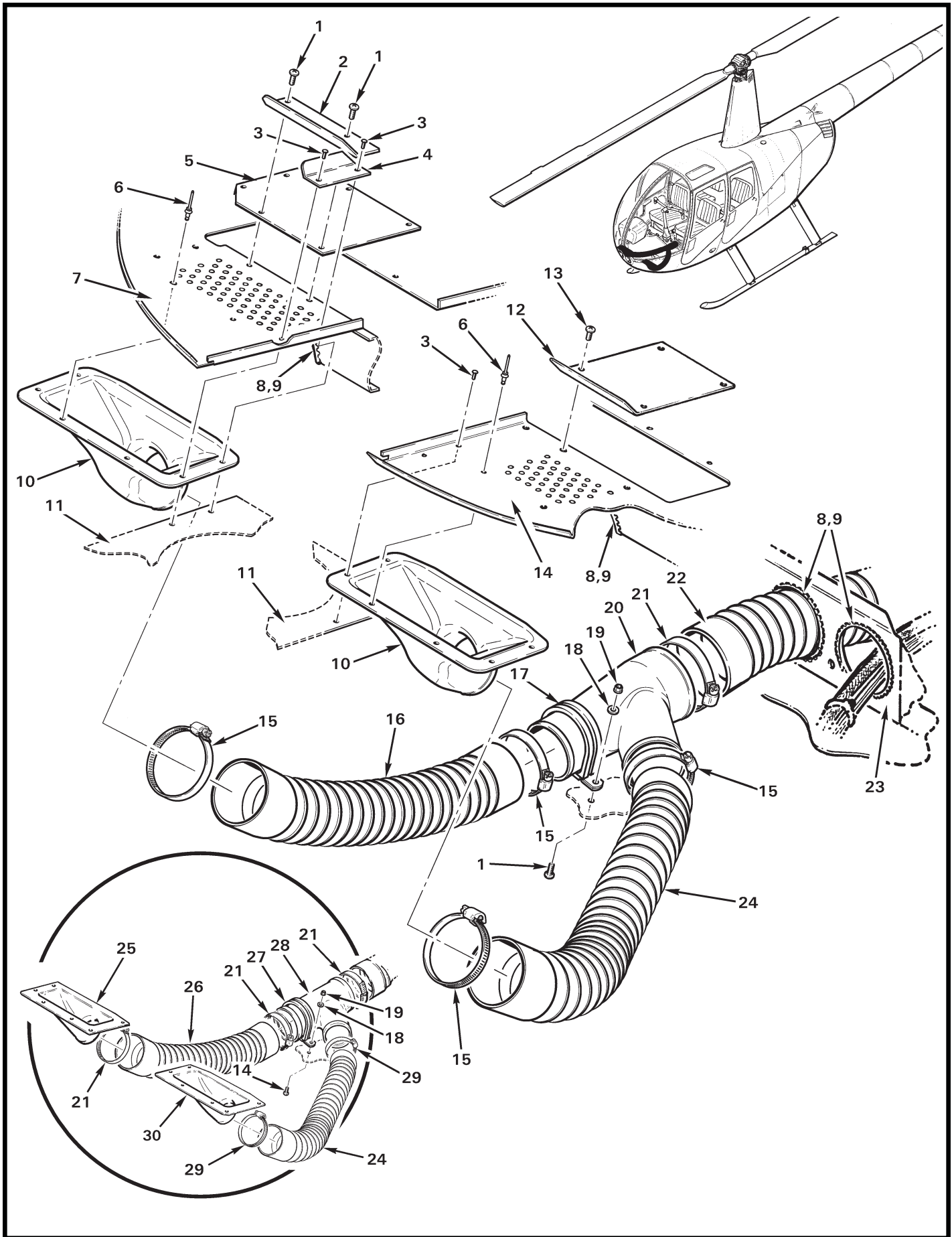


| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|----------------------------|---------------|---|-------------|----------------|--------------|
| HEATER INSTALLATION | | | | | |
| 8-41-1 | B277-36 | Clamp | X | | A/R |
| 2 | A785-12 | Hose | X | | 1 |
| 3 | C169-2 | Shroud Assembly - Muffler (Ref, see also Figure 4-21) | | | |
| 4 | C236 | Scroll Assembly - Lower (Ref) | | | |
| 5 | MS21919WDG42 | Clamp ([2] required to install item 10 on IO-540 ships) . . | X | | A/R |
| 6 | MS21042L3 | Nut | X | | A/R |
| 7 | NAS1149F0332P | Washer | X | | A/R |
| 8 | MS21919WDG16 | Clamp | X | | A/R |
| 9 | NAS6603-3 | Bolt | X | | 1 |
| 10 | A785-13 | Hose | X | | 1 |
| 11 | MS27039C0808 | Screw | X | | 8 |
| 12 | C753-1 | Cover (seal around using item 13) | X | | 1 |
| 13 | B270-1 | Sealant (2-oz tube) | X | | A/R |
| 14 | MS21042L08 | Nut | X | | A/R |
| 15 | NAS1149FN816P | Washer | X | | A/R |
| 16 | R5111 | Insulation (Microlite AA, 1" thick) | X | | A/R |
| 17 | C625-1 | Box (seal around using item 13) | X | | 1 |
| 18 | A623-1 | Inlet (seal around using item 13) | X | | 1 |
| 19 | D164-2 | Duct - Aft Outlet (ship S/N 0151 and higher) | X | | 1 |
| 20 | A701-2 | Foil Tape (6-in. width; aft of item 40) | X | | A/R |
| 21 | MS21919WDG48 | Clamp | X | | A/R |
| 22 | MS27039C1-07 | Screw | X | | 2 |
| 23 | MS27039C0806 | Screw | X | | 1 |
| 24 | MS35489-23 | Grommet | X | | 2 |
| 25 | A785-14 | Hose | X | | 1 |
| 26 | MS27039C0807 | Screw | X | | A/R |
| 27 | B189-2 | Deflector | X | | 1 |
| 28 | B189-1 | Deflector (side) | X | | 1 |
| 29 | MS20470AD3 | Rivet | X | | A/R |
| 30 | C232-4 | Panel - Floor, RH (Ref) | | | |
| 31 | C232-3 | Panel - Floor, LH (Ref) | | | |
| | | *Ship S/N 0271 thru 0357. | | | |
| | | (Cont'd) | | | |

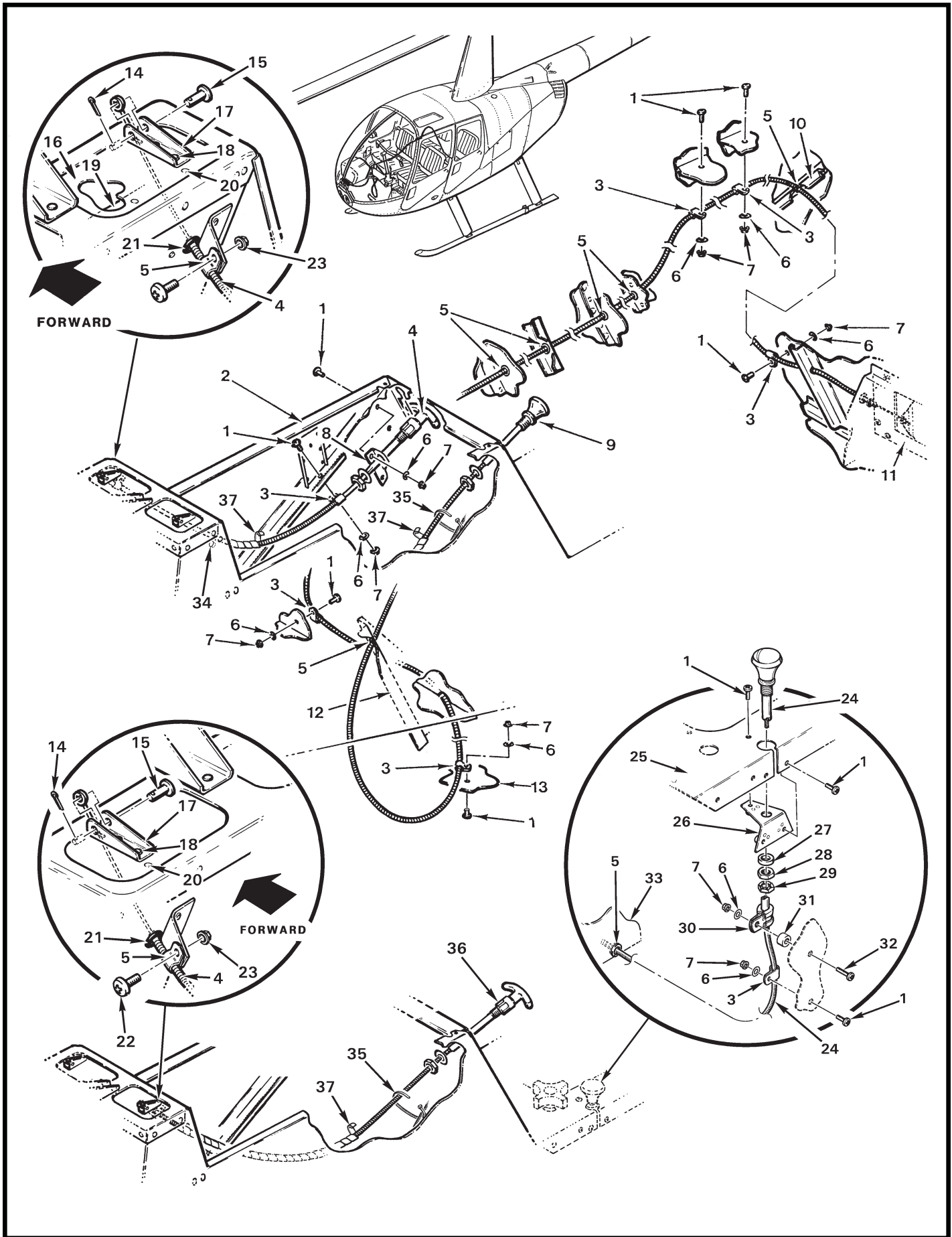
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------------------|----------------|--|-------------|----------------|--------------|
| HEATER INSTALLATION (Cont'd) | | | | | |
| 8-41-32 | C408-1 | Panel - Floor, Center (Ref) | | | |
| 33 | D165-1* | Outlet - RH (install between items 30 and 32) | X | | 1 |
| 34 | B277-24 | Clamp | X | | 2 |
| 35 | A701-1 | Tape - Aluminum (1-in. width; forward of item 40) | X | | 1 |
| 36 | A785-24 | Hose | X | | 1 |
| 37 | D166-1* | Outlet - LH (install between items 31 and 32) | X | | 1 |
| 38 | MS21266-1N | Grommet (install using item 39) | X | | A/R |
| 39 | B270-14.5oz | Adhesive (0.5-oz bottle) | X | | A/R |
| 40 | D230 | Bulkhead (Ref) | | | |
| 41 | B189-4 | Deflector | X | | 1 |
| 42 | A785-23 | Hose (ship S/N 0271 thru 0357) | X | | 1 |
| 43 | A785-29 | Hose (ship S/N 0358 and higher, installed <u>without</u> item 16) | X | | 1 |
| 44 | C292 | Keel Panel (Ref) | | | |
| 45 | A522-8 | Control (Ref, see Figure 8-45) | | | |
| 46 | MS35489-4 | Grommet | X | | 1 |
| 47 | A462-1 | Fitting | X | | 1 |
| 48 | B019-3 | Valve Assembly (seal around using item 13) | X | | 1 |
| 49 | NAS1149F0363P | Washer | X | | 1 |
| 50 | B164-1 | Outlet - RH (Install between items 30 and 32. Used on single forward-outlet heater installation ship S/N 0001 thru 0270.) | X | | 1 |
| 51 | D164-1 | Duct (Ship S/N 0001 thru 0150) | X | | 1 |
| * * * | | | | | |
| 52 | KI-110-2 | Left Hand Heater Outlet Installation Kit (Ship S/N 0001 thru 0270. Includes items 16, 29 [16], 33 thru 37, 41, 53 [16], and MT518-1 template [not shown].) | X | | 1 |
| 53 | NAS1919B04S01* | Rivet | X | | 8 |

*Ship S/N 0358 and higher.

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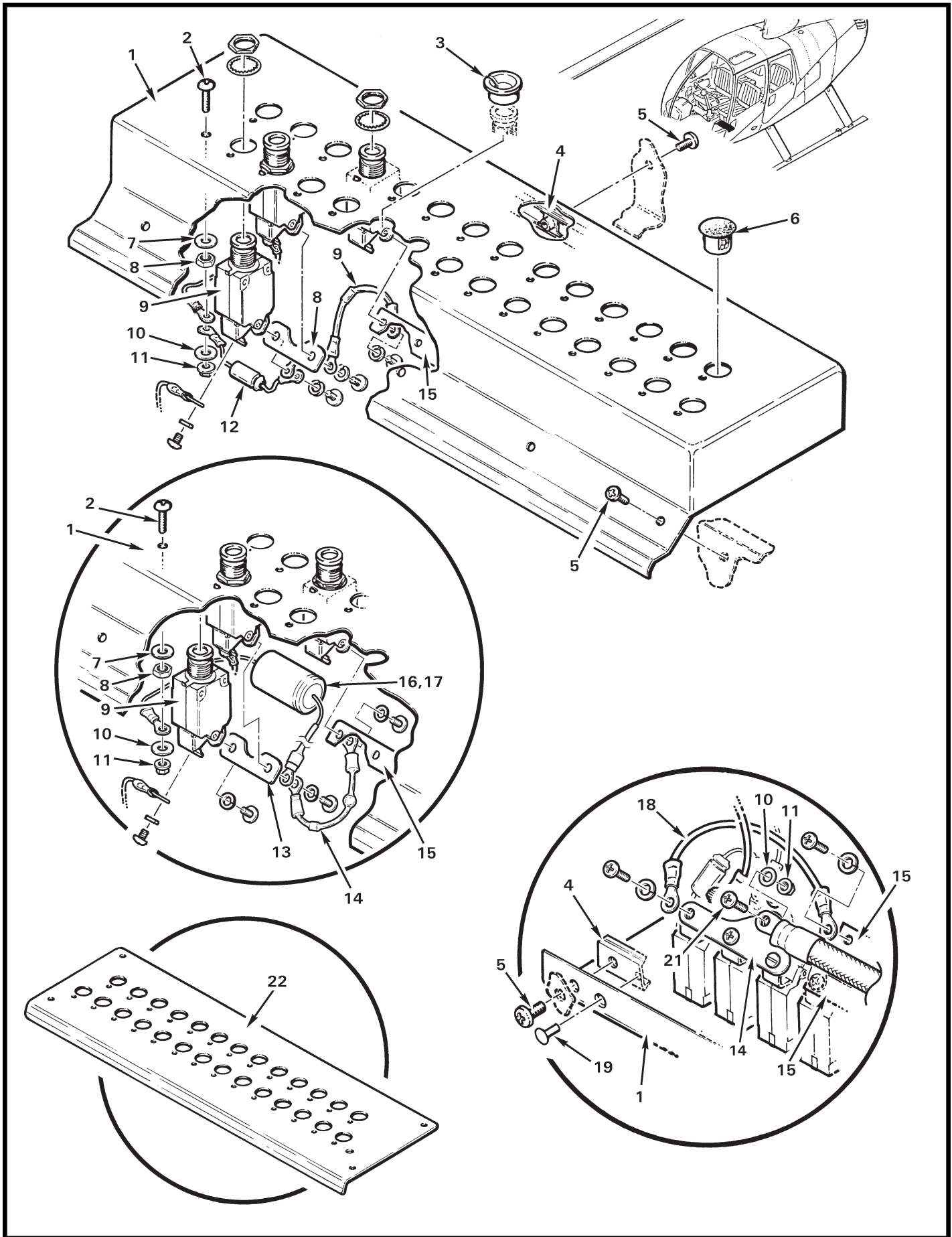
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|-----------------|--|-------------|----------------|--------------|
| | | B391 SPLITTER INSTALLATION (HEATER) | | | |
| 8-43B-1 | MS27039C0807 | Screw | X | | 3 |
| 2 | B189-2 | Deflector | X | | 1 |
| 3 | MS20470AD3 | Rivet | X | | 4 |
| 4 | B189-1 | Deflector (side) | X | | 1 |
| 5 | A412-2 | Cover | X | | 1 |
| 6 | NAS1919B04S01 * | Rivet | X | | 8 |
| 7 | C232-4 | Panel - Floor, RH (Ref) | | | |
| 8 | MS21266-1N | Grommet (install using item 48) | X | | A/R |
| 9 | B270-14.5oz | Adhesive (0.5-oz bottle) | X | | A/R |
| 10 | B164-3 | Outlet | X | | 1 |
| 11 | C408-1 | Panel - Floor, Center (Ref) | | | |
| 12 | B189-4 | Deflector | X | | 1 |
| 13 | MS27039C0806 | Screw | X | | 8 |
| 14 | C232-3 | Panel - Floor, LH (Ref) | | | |
| 15 | B277-28 | Clamp | X | | 4 |
| 16 | A785-34 | Hose | X | | 1 |
| 17 | MS21919WDG32 | Clamp | X | | 1 |
| 18 | NAS1149FN816P | Washer | X | | 1 |
| 19 | MS21042L08 | Nut | X | | 1 |
| 20 | B391-2 | Splitter | X | | 1 |
| 21 | B277-36 | Clamp ([3] required when item 28 installed) | X | | 1 |
| 22 | A785-29 | Hose | X | | 1 |
| 23 | D230-1 | Bulkhead (Ref) | | | |
| 24 | A785-25 | Hose | X | | 1 |
| 25 | B164-1 | Outlet (RH, Ref. Also used on single-forward outlet heater, ship S/N 0001 thru 0270. No longer available; order items 10, 15, 16, and 20.) | | | |
| 26 | A785-27 | Hose | X | | 1 |
| 27 | MS21919WDG40 | Clamp | X | | 1 |
| 28 | B391-1 | Splitter (Ref, no longer available; order items 10, 15, 16, and 20.) | | | |
| 29 | B277-24 | Clamp | X | | 2 |
| 30 | B164-2 | Outlet (LH, Ref. No longer available; order item 10.) | | | |



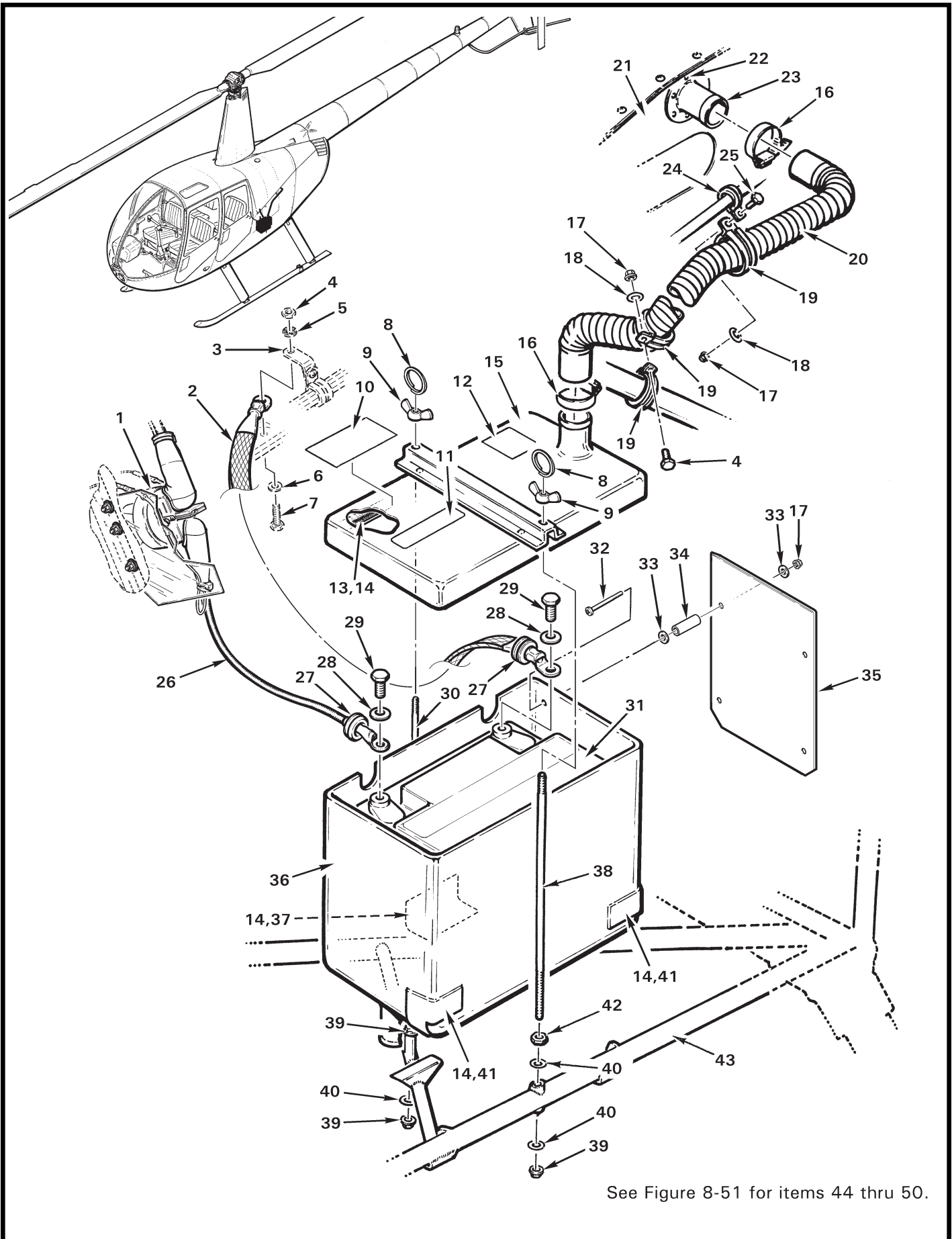
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|---------------------------------|---------------|---|-------------|----------------|--------------|
| CABIN HEAT/VENT CONTROLS | | | | | |
| 8-45-1 | MS27039C0806 | Screw | X | | 9 |
| 2 | C033-1 | Lower Console Assembly (Ref) | | | |
| 3 | AN742-3 | Clamp | X | | 7 |
| 4 | C522-5 | Control - Cabin Air Vent (Ship S/N 0001 thru 9999, RH location. Includes washer and nut.) | X | | 1 |
| 5 | NAS557-3A | Grommet | X | | 6 |
| 6 | NAS1149FN816P | Washer | X | | 9 |
| 7 | MS21042L08 | Nut | X | | 9 |
| 8 | C365-10 | Mount | X | | 1 |
| 9 | A522-8 | Control - Cabin Heat (Ship S/N 0001 thru 9999 this location. Includes washer and nut.) | X | | 1 |
| 10 | C384-5 | Stiffener (Ref) | | | |
| 11 | B019-3 | Valve Assembly (Ref, see Figure 8-41) | | | |
| 12 | A371-1 | Stiffener (Ref) | | | |
| 13 | C272-1 | Chin (Ref) | | | |
| 14 | MS24665-73 | Cotter Pin | X | | 1 |
| 15 | MS20392-2C13 | Pin | X | | 1 |
| 16 | C062-2 | Flap Assembly (Ref, Includes items 17 thru 20) | | | |
| 17 | A523-4 | Channel (Ref) | | | |
| 18 | MS20470AD4 | Rivet (Ref) | | | |
| 19 | A523-3 | Hinge (Ref) | | | |
| 20 | MS20470AD3 | Rivet (Ref) | | | |
| 21 | MS35489-4 | Grommet | X | | 1 |
| 22 | MS27039C1-06 | Screw | X | | 1 |
| 23 | MS21042L3 | Nut | X | | 1 |
| 24 | A522-8 | Control - Cabin Heat (Ship S/N 10001 and higher this location. Includes item 28.) | X | | 1 |
| 25 | C444 | Cover - Cyclic (Ref) | | | |
| 26 | C518-1 | Cover Assembly | X | | 1 |
| 27 | A130-18 | Spacer | X | | 1 |
| 28 | — | Nut | O | | 1 |
| 29 | B330-19 | Palnut | X | | 1 |
| (Cont'd) | | | | | |

| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-----------------------------------|--------------|---|-------------|----------------|--------------|
| CABIN HEAT/VENT CONTROLS (Cont'd) | | | | | |
| 8-45-30 | MS21919WDG4 | Clamp | X | | 1 |
| 31 | A130-21 | Spacer | X | | 1 |
| 32 | MS27039C0809 | Screw | X | | 1 |
| 33 | C293-4 | Keel Panel (Fwd, LH; Ref) | | | |
| 34 | 2613 | Hole Plug (opposite item 36, LH or RH) | X | | 1 |
| 35 | MS3367-5-9 | Ty-Rap | X | | 1 |
| 36 | C522-5 | Control - Cabin Air Vent (Ship S/N 10001 and higher, LH location. Includes washer and nut.) | X | | 1 |
| 37 | B161-4 | Spirap | X | | A/R |

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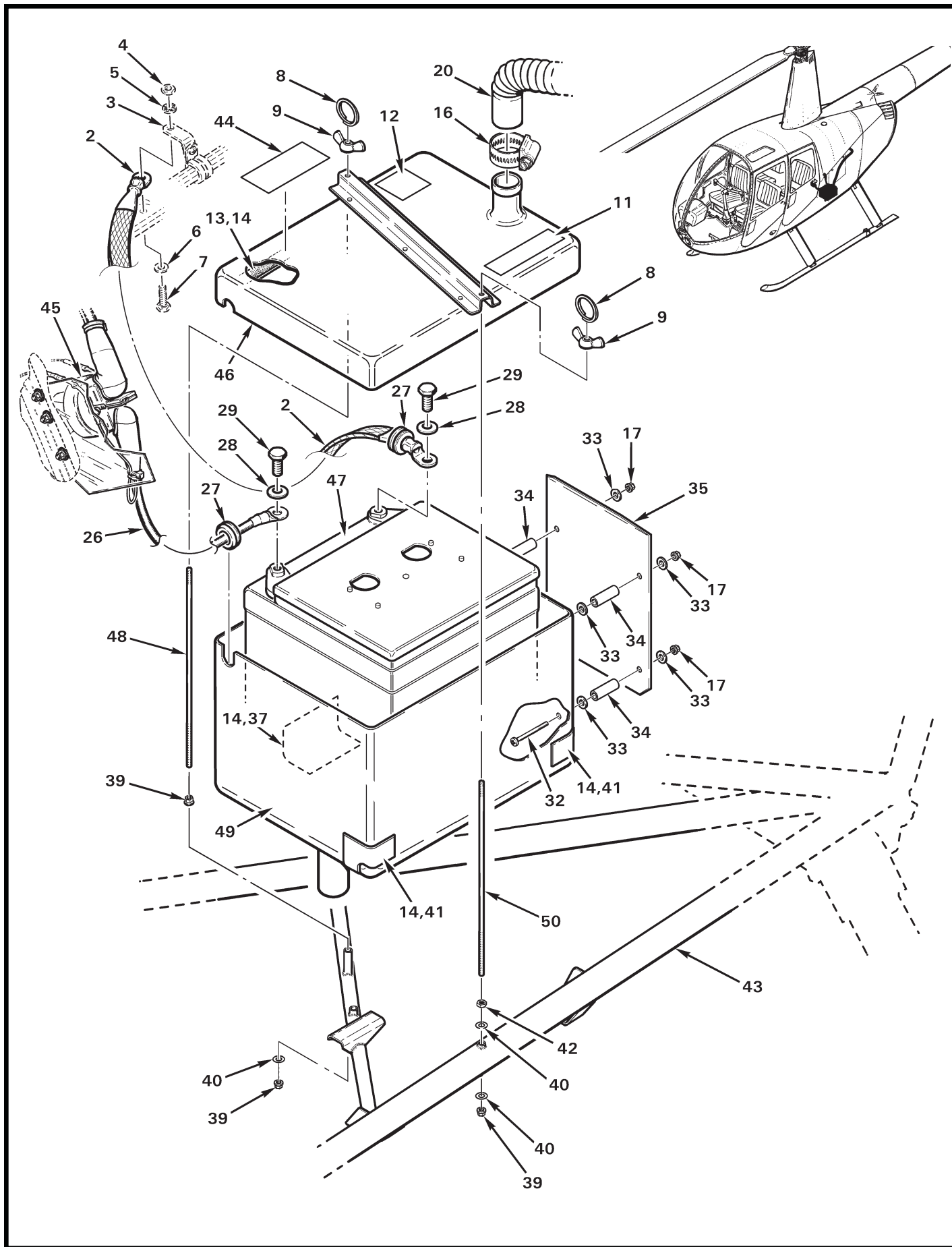
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|---------------|--|-------------|----------------|--------------|
| | | ELECTRICAL CIRCUIT BREAKER PANEL | | | |
| 8-47-1 | C490-8 | Circuit Breaker Panel Assembly (28 holes, 14/28-volt ships with hydraulic flight controls. Includes items 4 and 19.) . . | X | | 1 |
| 2 | MS35206-246 | 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 older 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.) . . . | X | | 1 |
| | C490-9 | Circuit Breaker Panel Assembly (28 holes, 28-volt ships with manual flight controls. Includes items 4 and 19.) . . . | X | | 1 |

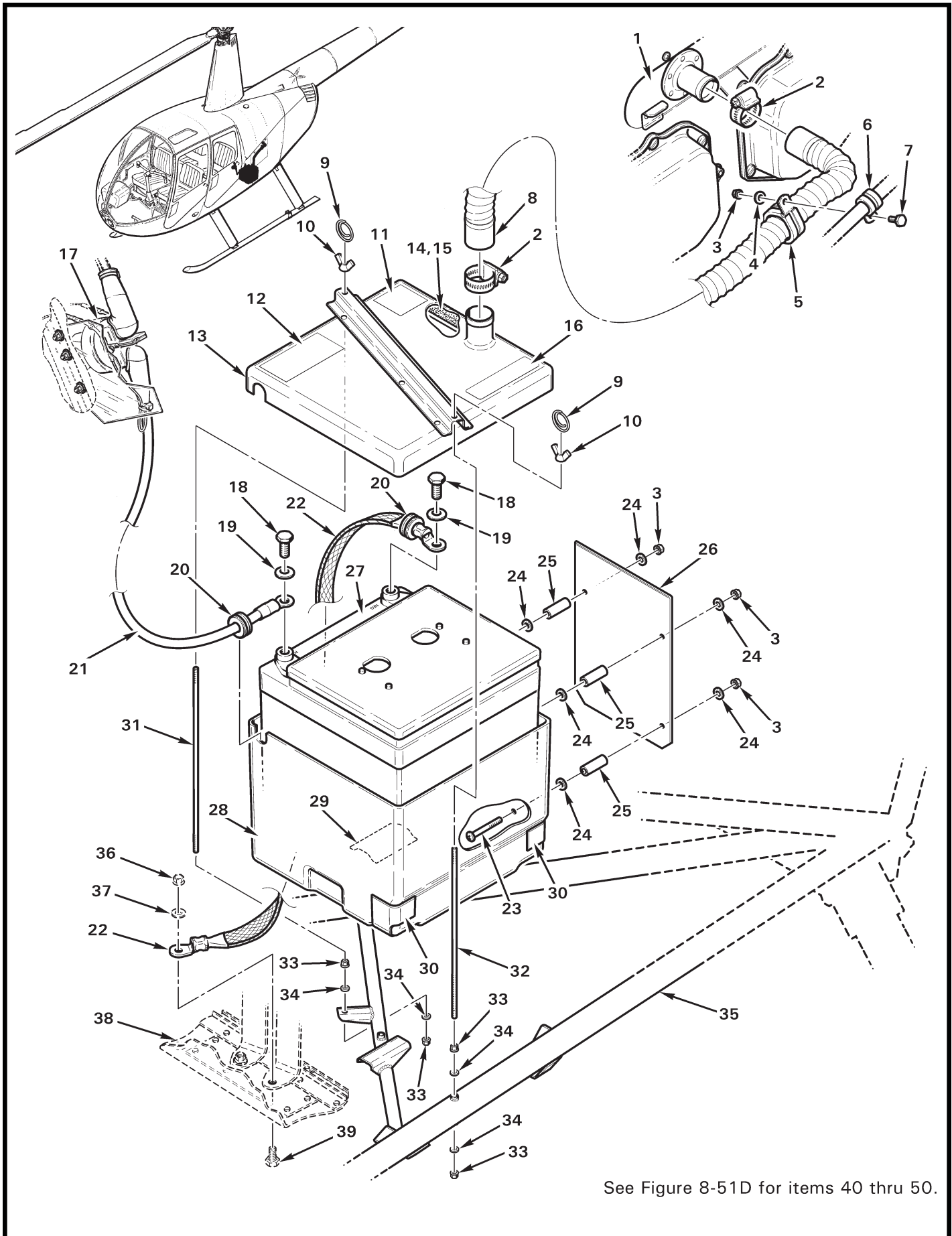


See Figure 8-51 for items 44 thru 50.

| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|---------------|--|-------------|----------------|--------------|
| | | 12-VOLT AFT BATTERY INSTALLATION* | | | |
| 8-49-1 | B415-1** | Relay (Ref, 14-volt ships; see Figures 8-53/8-57 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 | 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 | C305-11 | Panel - LH (Ref, see also Figure 4-33) | | | |
| 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 |
| | | *When C046-1 or -19 lower frame is installed. **Ship S/N 0945 and higher. For ship S/N 0001 thru 0944, see Figure 8-57. ***Lycoming part no. | | | |
| | | (Cont'd) | | | |

| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|---|---------------|---|-------------|----------------|--------------|
| 12-VOLT AFT BATTERY INSTALLATION* (Cont'd) | | | | | |
| 8-49-30 | A923-4 | Rod (inboard; for C046-1 and -19 frames) | X | | 1 |
| 31 | B237-6 | Battery (Sealed case, 12-volt; includes items 28 and 29. Ship S/N 0247 and higher. 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, 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) | | | |
| * * * | | | | | |
| 8-51-44 | C654-43 | Decal - "24V" (28-volt ships) | X | | 1 |
| 45 | B415-2 | Relay (Ref, 28-volt ships; see Figure 8-53/8-57 for complete installation) | | | |
| 46 | C955-6 | Cover Assembly (28-volt ships; includes items 11 thru 13, and 44) | O | | 1 |
| 47 | B237-4 | Battery (sealed case, 28-volt; includes items 28 and 29) . . | X | | 1 |
| 48 | A923-6 | Rod (inboard) | X | | 1 |
| 49 | C955-5 | Battery Box Assembly (28-volt ships; includes items 14, 17, 32 thru 35, 37, 41, and 46) | X | | 1 |
| 50 | A923-5 | Rod (outboard) | X | | 1 |
| *When C046-1 or -19 lower frame is installed. | | | | | |

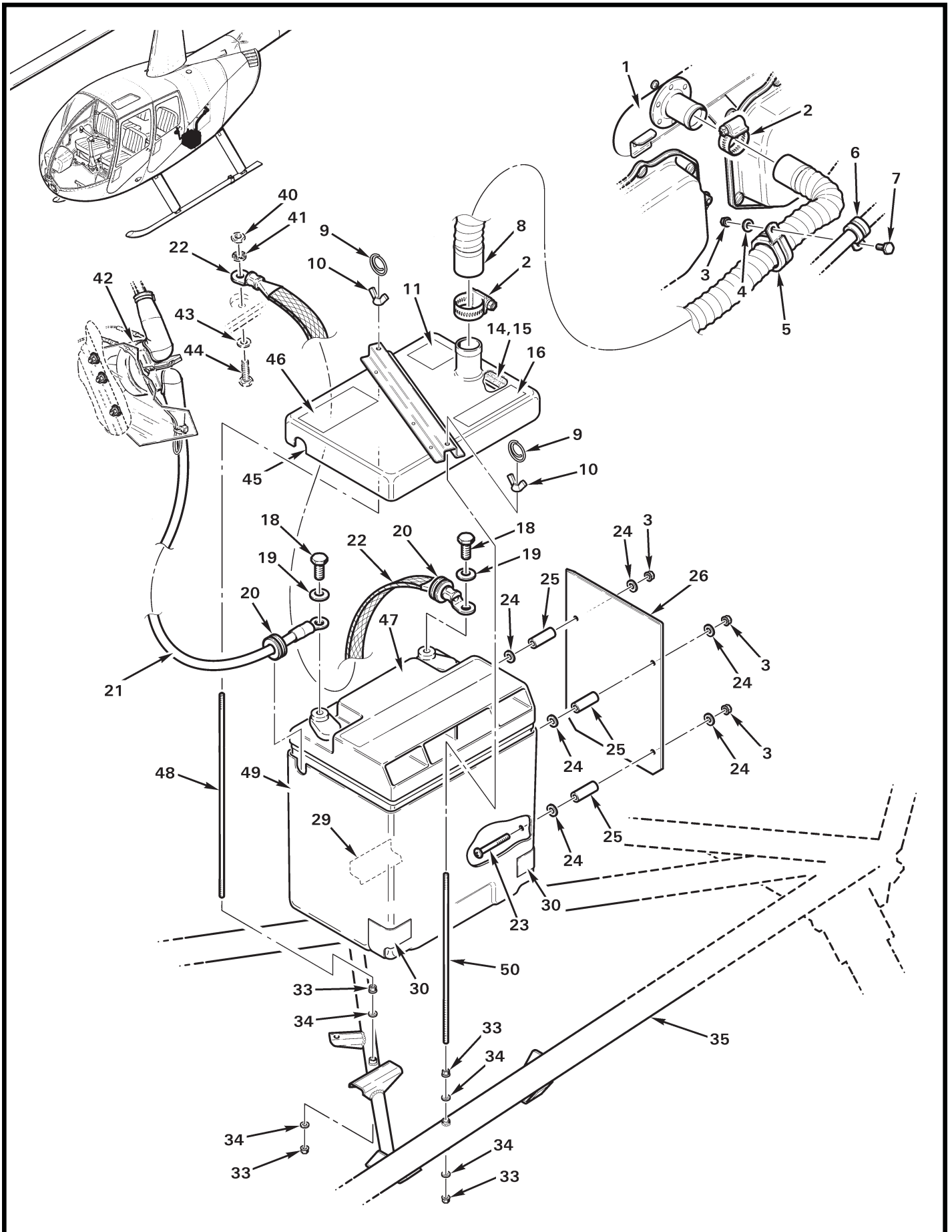


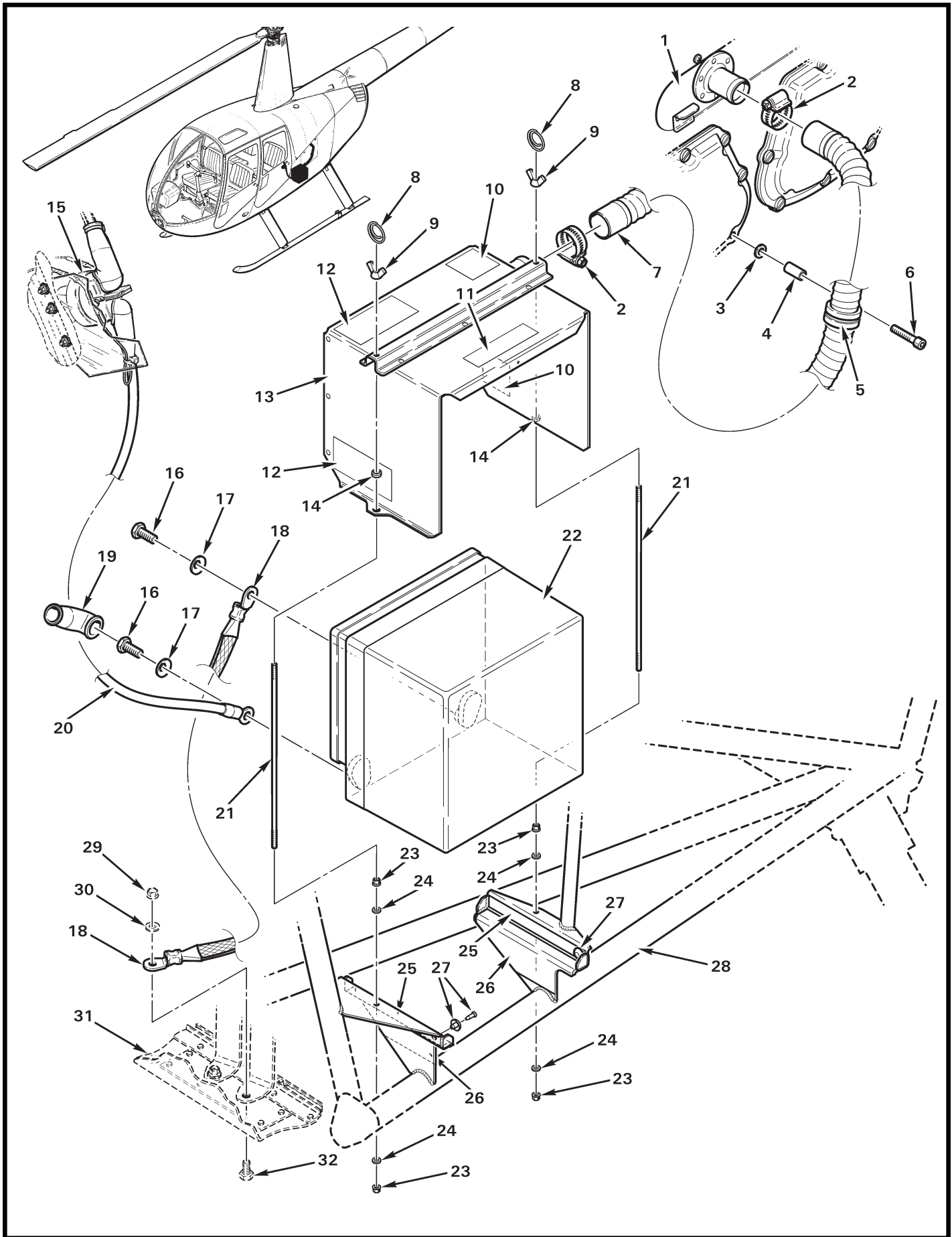


See Figure 8-51D for items 40 thru 50.

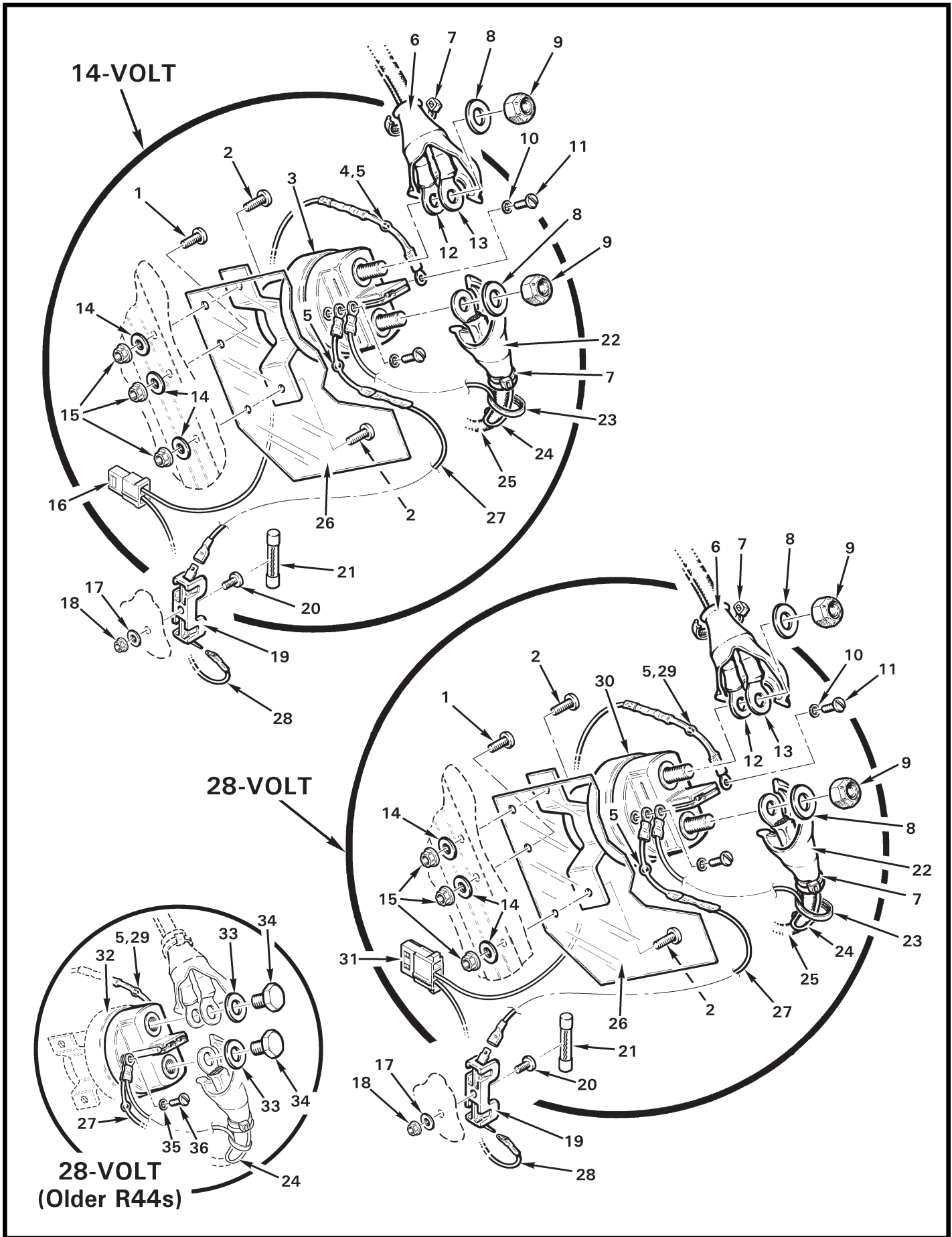
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|---------------|--|-------------|----------------|--------------|
| | | AFT BATTERY INSTALLATION * | | | |
| 8-51B-1 | C449-3 | Cover Assembly (Ref, see also Figure 4-39B) | | | |
| 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 | R5556 | Seal (install using item 15) | X | | A/R |
| 15 | B270-14 | Adhesive | 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 8-53) | | | |
| 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) . | X | | 1 |
| 28 | C955-10 | Battery Box Assembly (28-volt ships; includes items 3,13,15, 23 thru 26, 29, and 30) | X | | 1 |
| | | *When C046-21 lower frame is installed. (Cont'd) | | | |

| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|---|-------------|--|-------------|----------------|--------------|
| AFT BATTERY INSTALLATION * | | | | | |
| 8-51B-29 | C955-12 | Pad (install using item 15) | X | | 1 |
| 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) | | | |
| * * * | | | | | |
| 8-51D-36 | B415-1 | Relay (14-volt, Ref; see Figure 8-53) | | | |
| 37 | C955-9 | Cover Assembly (14-volt ships; includes items 11, 14 thru 16, and 38) | O | | 1 |
| 38 | C654-44 | Decal-" + 12V" | X | | 1 |
| 39 | B237-6 | Battery (sealed case, 12-volt; includes items 18 and 19) | X | | 1 |
| 40 | A923-8 | Rod (inboard) | X | | 1 |
| 41 | C955-8 | Battery Box Assembly (14-volt ships; includes items 3, 15, 23 thru 26, 29, 30, and 37) | X | | 1 |
| 42 | A923-7 | Rod (outboard) | X | | 1 |
| *When C046-21 lower frame is installed. | | | | | |





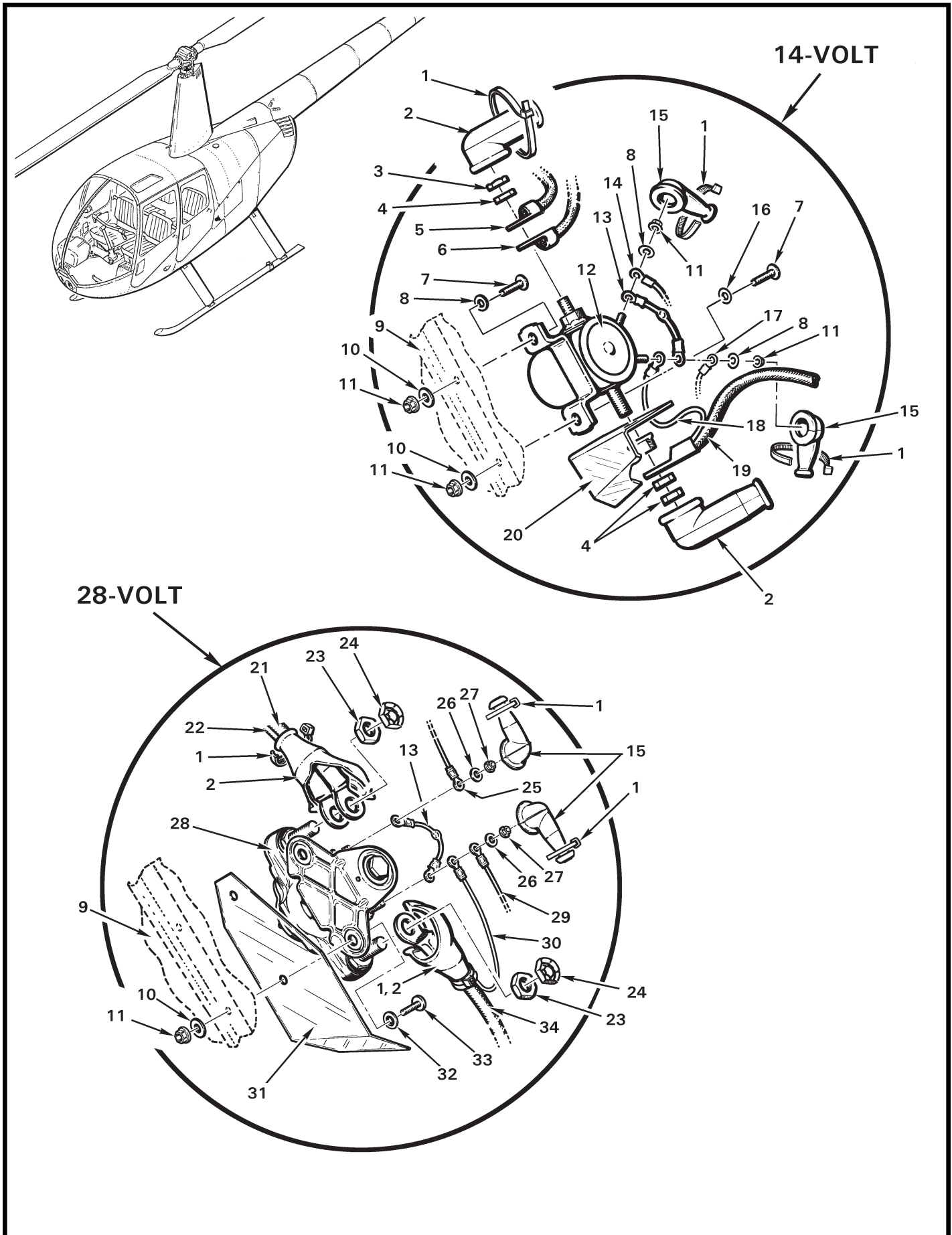
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|---------------|---|-------------|----------------|--------------|
| | | AFT BATTERY INSTALLATION* | | | |
| 8-51F-1 | C449-3 | Cover Assembly (Ref, see Figure 4-39B) | | | |
| 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 | 95390A317 | Circle Cotter | X | | 2 |
| 9 | 94924A009 | Wingnut | X | | 2 |
| 10 | C654-45 | Decal - "—" | X | | 2 |
| 11 | C654-21 | Decal - "Caution; Install Only Sealed Maintenance-Free Battery" | X | | 1 |
| 12 | C654-43 | Decal - "+ 24V" | X | | 2 |
| 13 | D809-1 | Cover Assembly (Incl items 10 thru 12, and 14) | X | | 1 |
| 14 | NAS557-3A | Grommet | X | | 2 |
| 15 | B415-2 | Relay (Ref, see Figure 8-53) | | | |
| 16 | - | Bolt (M8) | O | | 2 |
| 17 | - | Washer - Conical (M8) | O | | 2 |
| 18 | A780-22 | Cable Assembly - Battery Negative | X | | 1 |
| 19 | MS25171-4S | Nipple | X | | 1 |
| 20 | A780-46 | Cable Assembly - Battery Positive | X | | 1 |
| 21 | A923-10 | Rod | X | | 1 |
| 22 | B237-4 | Battery (sealed case, 24-volt; includes items 18 and 19) | X | | 1 |
| 23 | MS21042L08 | Nut | X | | 4 |
| 24 | NAS620-8L | Washer | X | | 4 |
| 25 | A701-3 | Tape (0.5 in. wide polyethylene) | X | | A/R |
| 26 | A701-5 | Tape (2 in. wide polyethylene) | X | | 1 |
| 27 | PPR-4850B | Push Rivet | X | | 1 |
| 28 | C046-23 | Frame (Ref) | | | |
| 29 | MS21042L4 | Nut (Ref) | | | |
| 30 | NAS1149F0432P | Washer (Ref) | | | |
| 31 | C015-3 | Skin (LH cabin belly; Ref) | | | |
| 32 | AN4-4A | Bolt (Ref) | | | |
| | | *When C046-23 lower frame is installed. | | | |



| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|---------------|--|-------------|----------------|--------------|
| | | AFT BATTERY RELAY INSTALLATION* | | | |
| 8-53-1 | 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, 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 #580, to alt shunt) | X | | 1 |
| 13 | A780-26 | Cable (wire #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) | | | |
| 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 |
| | | *Ship S/N 0945 and higher. (Cont'd) | | | |

| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|---|-------------|---|-------------|----------------|--------------|
| AFT BATTERY RELAY INSTALLATION* (Cont'd) | | | | | |
| 8-53-31 | B263-15 | Housing | X | | 1 |
| | B263-2 | Socket | X | | 2 |
| 32 | 26.57.01 | Relay (Ref, 28-volt; for older 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 |
| *Ship S/N 0945 and higher. | | | | | |

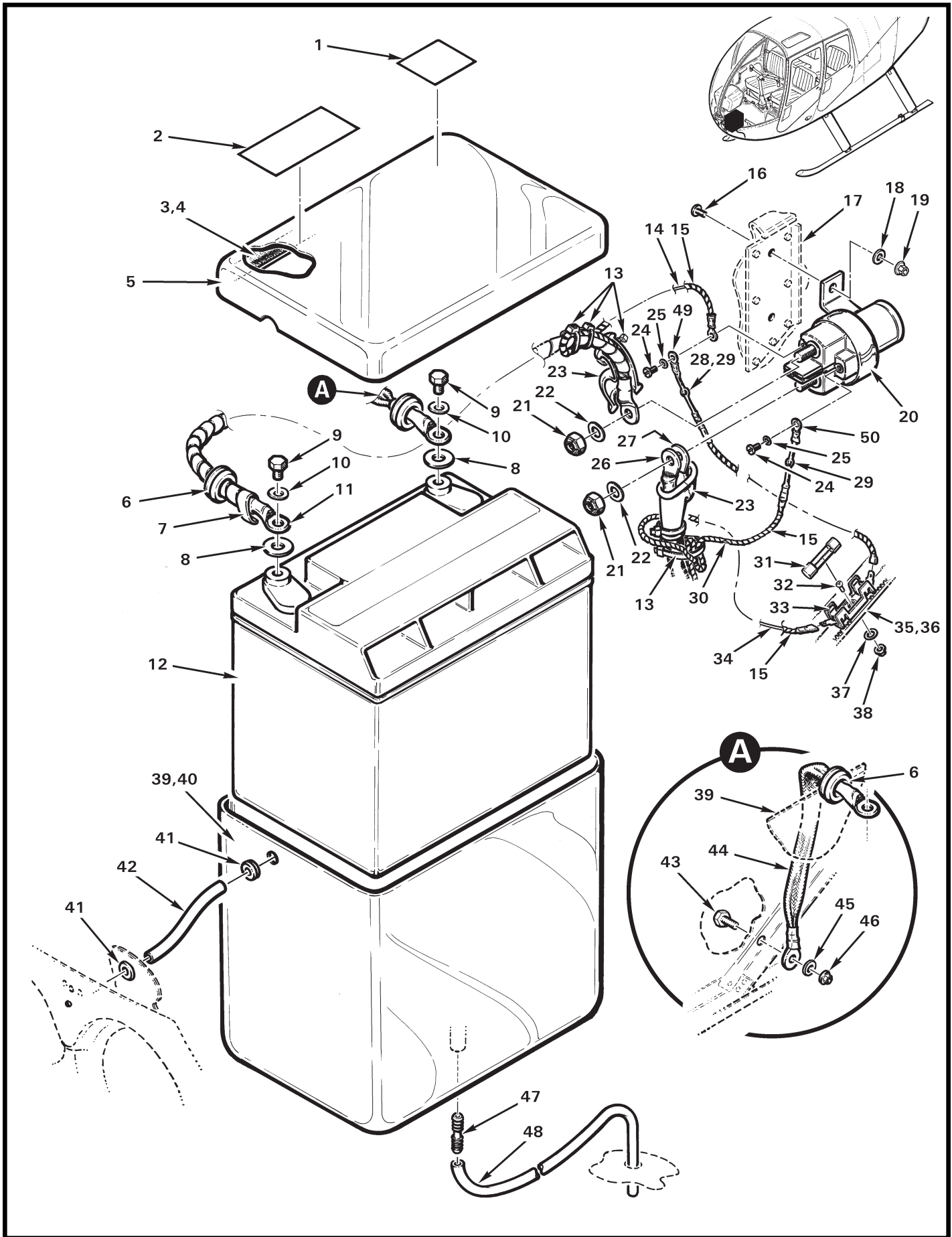
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| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|--|---------------|--|-------------|----------------|--------------|
| AFT BATTERY RELAY INSTALLATION* | | | | | |
| 8-57-1 | MS3367-4-9 | Ty-Rap | 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 8-53.) . . . | 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 (Incl 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 8-53.) . . . | 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 8-53.) . . . | X | | 1 |
| <p>*Ship S/N 0001 thru 0944. **No longer available. Contact RHC Customer Service for replacement.</p> | | | | | |
| (Cont'd) | | | | | |

| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|---|---------------------|--|-------------|----------------|--------------|
| AFT BATTERY RELAY INSTALLATION* (Cont'd) | | | | | |
| 8-57-30 | A780-64 | Wire (Ref) | | | |
| 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 |
| *Ship S/N 0001 thru 0944. | | | | | |

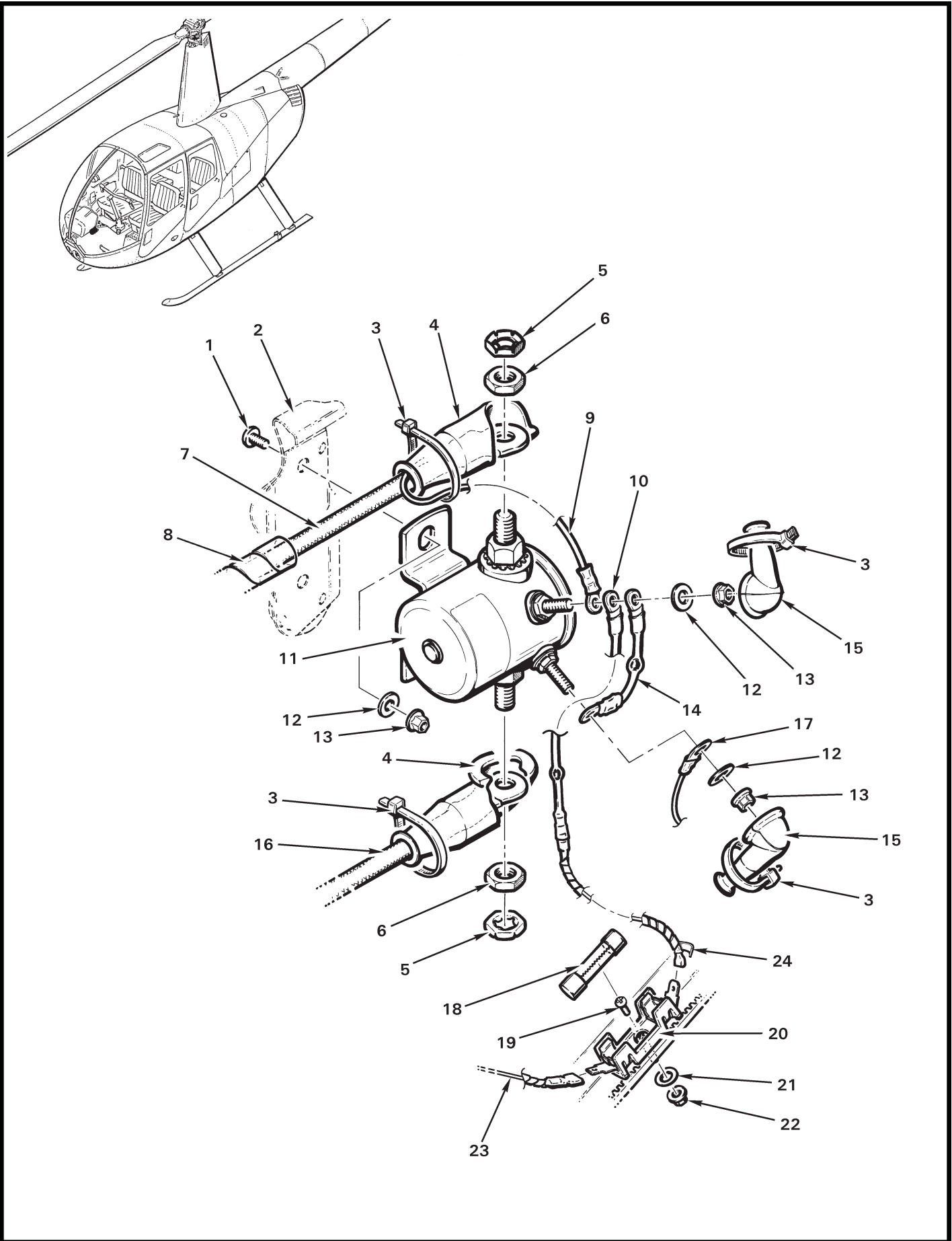
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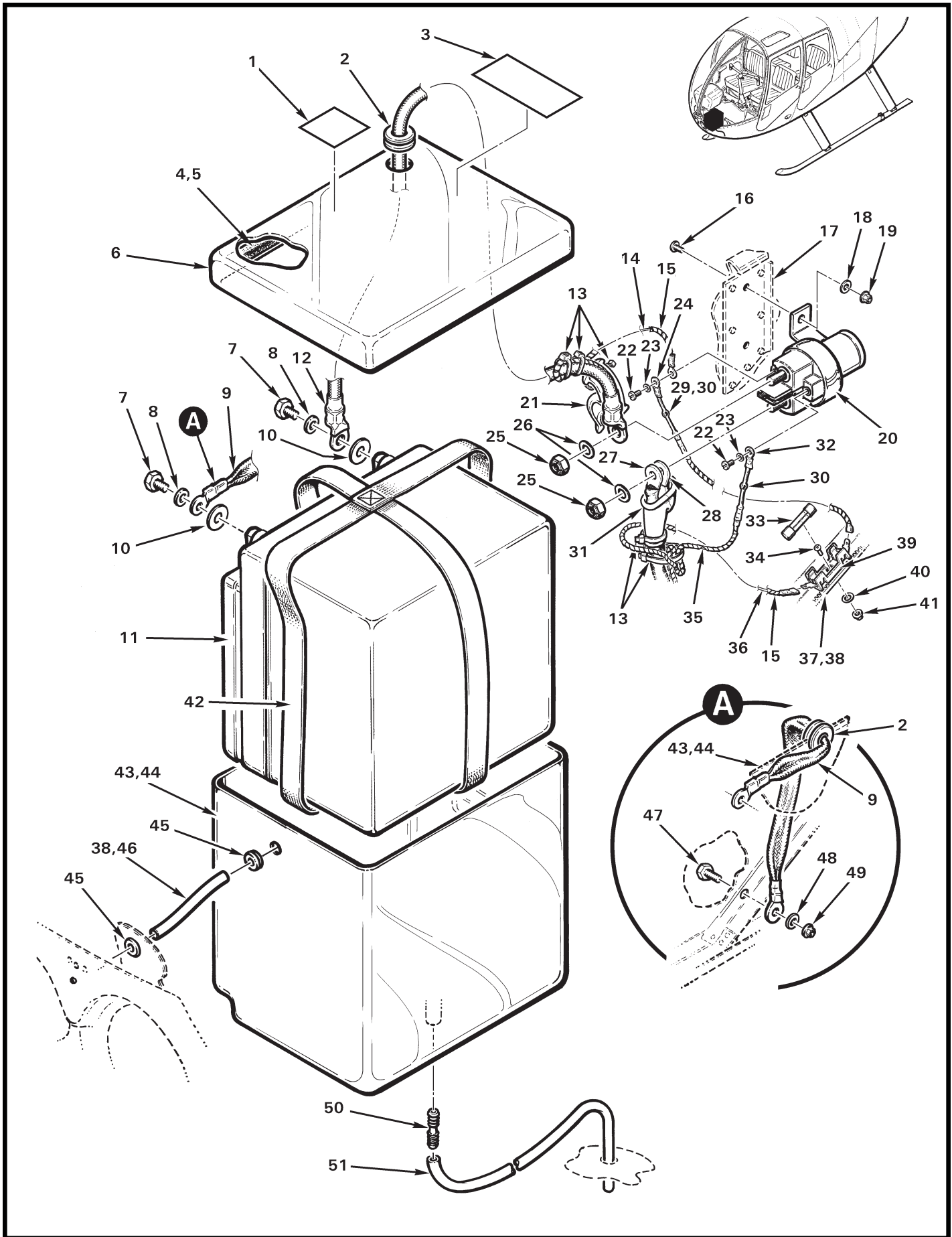
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|---------------|--|-------------|----------------|--------------|
| | | NOSE BATTERY INSTALLATION (14-VOLT) | | | |
| 8-61-1 | C654-45 | Decal - "—" | X | | 1 |
| 2 | C654-44 | Decal - "12V+" | X | | 1 |
| 3 | A540-4 | Seal (install using item 4) | X | | A/R |
| 4 | B270-14 | Adhesive | 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 (12-volt, includes items 9 and 10) | 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 an assembled unit.) | X | | 1 |
| 29 | A15A | Diode (cover with B158-103 heat shrink) | X | | 1 |
| | B158-103 | Heat Shrink (clear) | X | | A/R |
| | | *Ship S/N 0945 and higher. For ship S/N 0001 thru 0944, see Figure 8-65. (Cont'd) | | | |

| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|---------------|--|-------------|----------------|--------------|
| | | NOSE BATTERY INSTALLATION (14-VOLT) (Cont'd) | | | |
| 8-61-30 | 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 | 0705T-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 (one-inch 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 |

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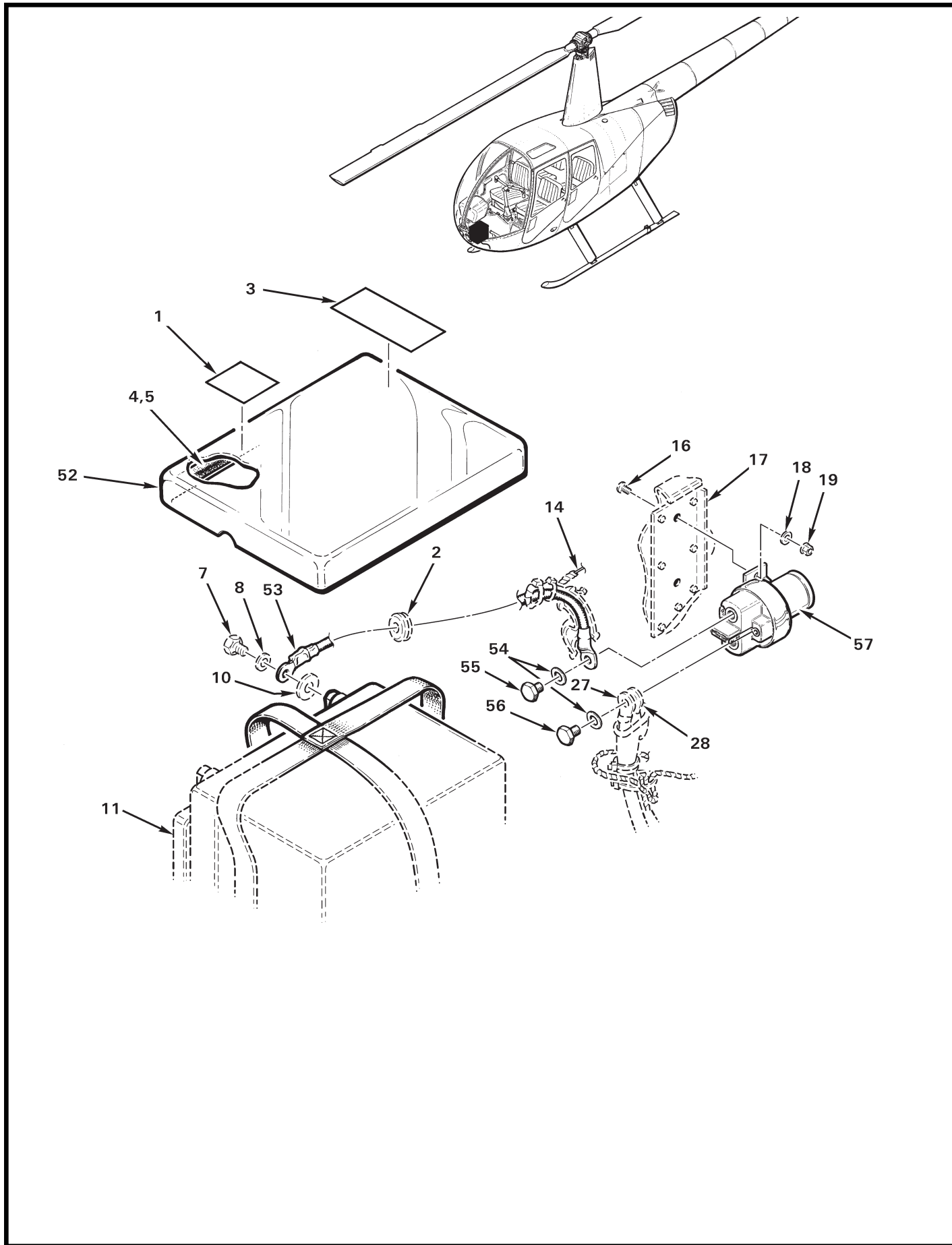


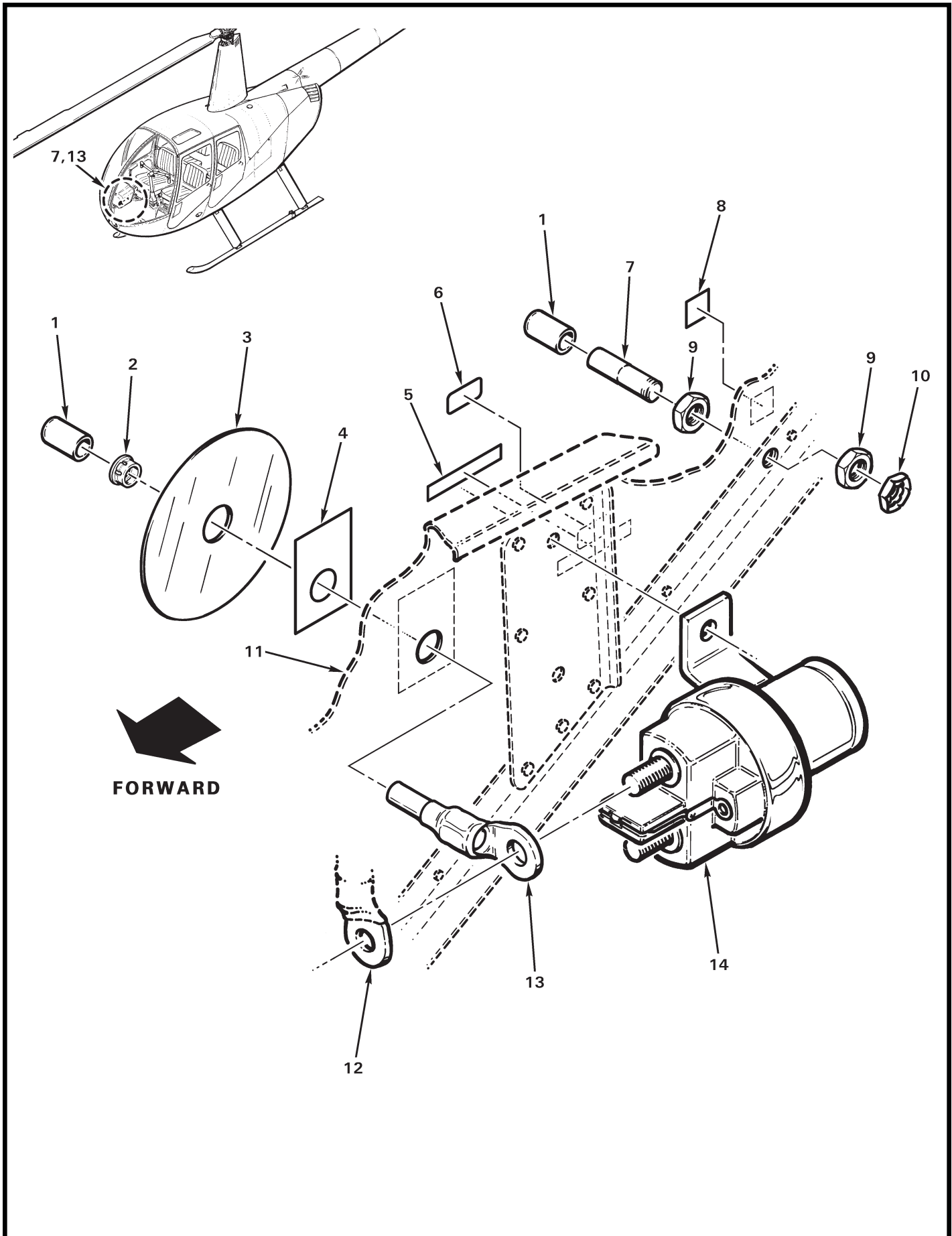
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|---|---------------|---|-------------|----------------|--------------|
| NOSE BATTERY RELAY (14-VOLT)* | | | | | |
| 8-65-1 | MS27039C1-06 | Screw | X | | 2 |
| 2 | C359-2 | Console Panel (Ref) | | | |
| 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 |
| *Ship S/N 0001 thru 0944, no longer available. Order KI-153 kit to replace relay (see Figure 8-61, item 51). | | | | | |



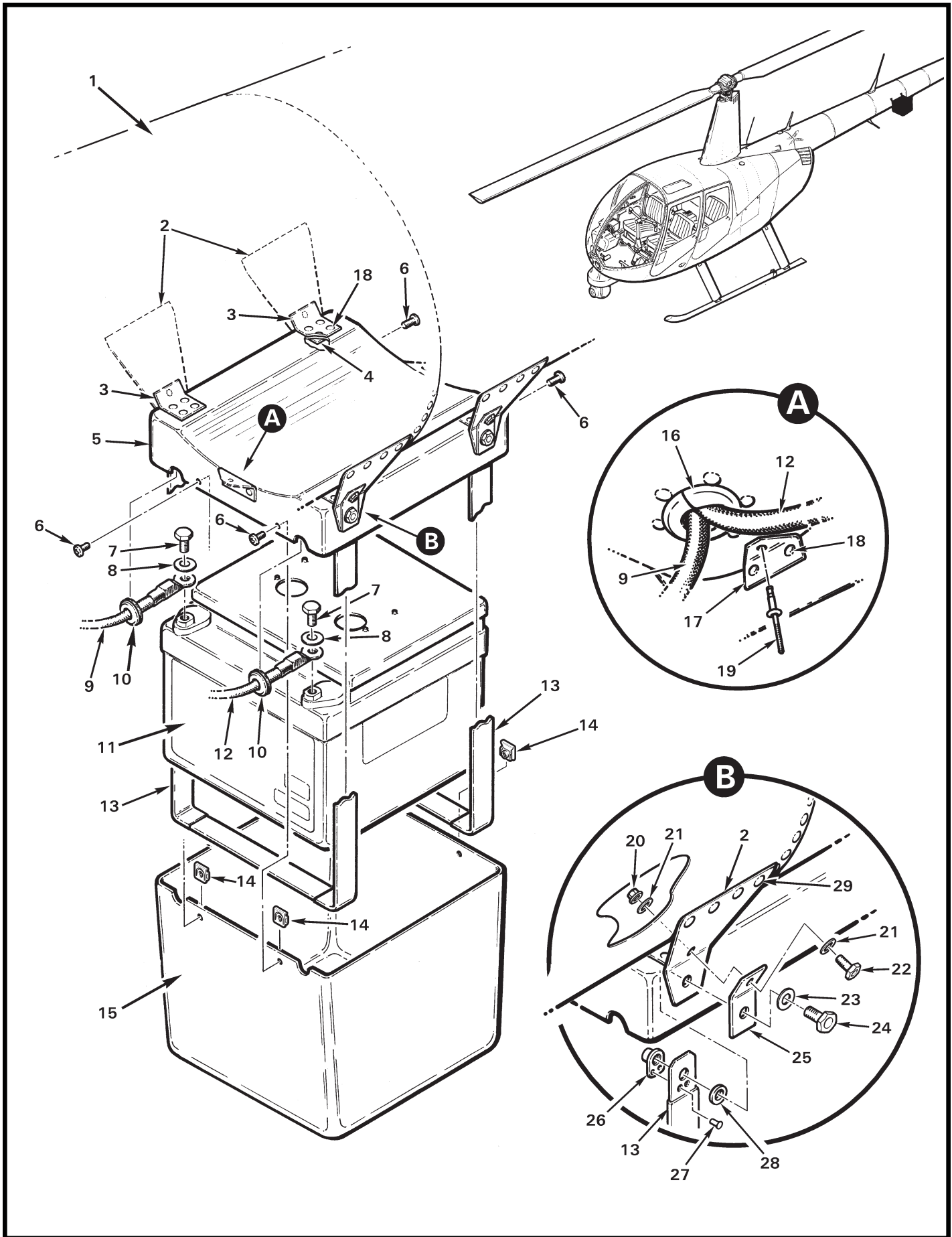
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|---------------|--|-------------|----------------|--------------|
| | | NOSE BATTERY INSTALLATION (28-VOLT) | | | |
| 8-67-1 | C654-45 | Decal - "--" | X | | 1 |
| 2 | MS35489-40 | Grommet | X | | 2 |
| 3 | C654-43 | Decal - "24V +" | X | | 1 |
| 4 | A540-4 | Seal (install using item 5) | X | | A/R |
| 5 | B270-14 | Adhesive | 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 (28-volt, includes items 7 and 8) | X | | 1 |
| 12 | A780-40 | Cable - Battery Positive (Includes item 14; use only with item 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 | O1003621 | Screw (M4 x 6) | O | | 2 |
| 23 | O1004635 | Washer (M4) | O | | 2 |
| 24 | B260-3 | Terminal | X | | 1 |
| 25 | MS21044B5 | Nut | O | | 2 |
| 26 | O1000424 | 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 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 |
| 31 | MS25171-4S | Nipple | X | | 1 |
| | | (Cont'd) | | | |

| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|---------------|---|-------------|----------------|--------------|
| | | NOSE BATTERY INSTALLATION (28-VOLT) (Cont'd) | | | |
| 8-67-32 | 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 (Includes 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 (Includes items 50 and R5022 tube) | X | | 1 |
| | | * * * | | | |
| 52 | D689-3 | Cover Assembly (Rev "C" and prior, Ref; no longer available. Order items 12 and 44 when replacing.) | | | |
| 53 | A780-21 | Cable - Battery Positive (Incl item 14) | X | | 1 |
| 54 | - | Washer (M8, conical) | O | | 2 |
| 55 | - | Bolt (M8 x 8) | O | | 1 |
| 56 | - | Bolt (M8 x 10) | O | | 1 |
| 57 | 26.57.01 | Relay (Ref, no longer available; order item 20 when replacing) | | | |

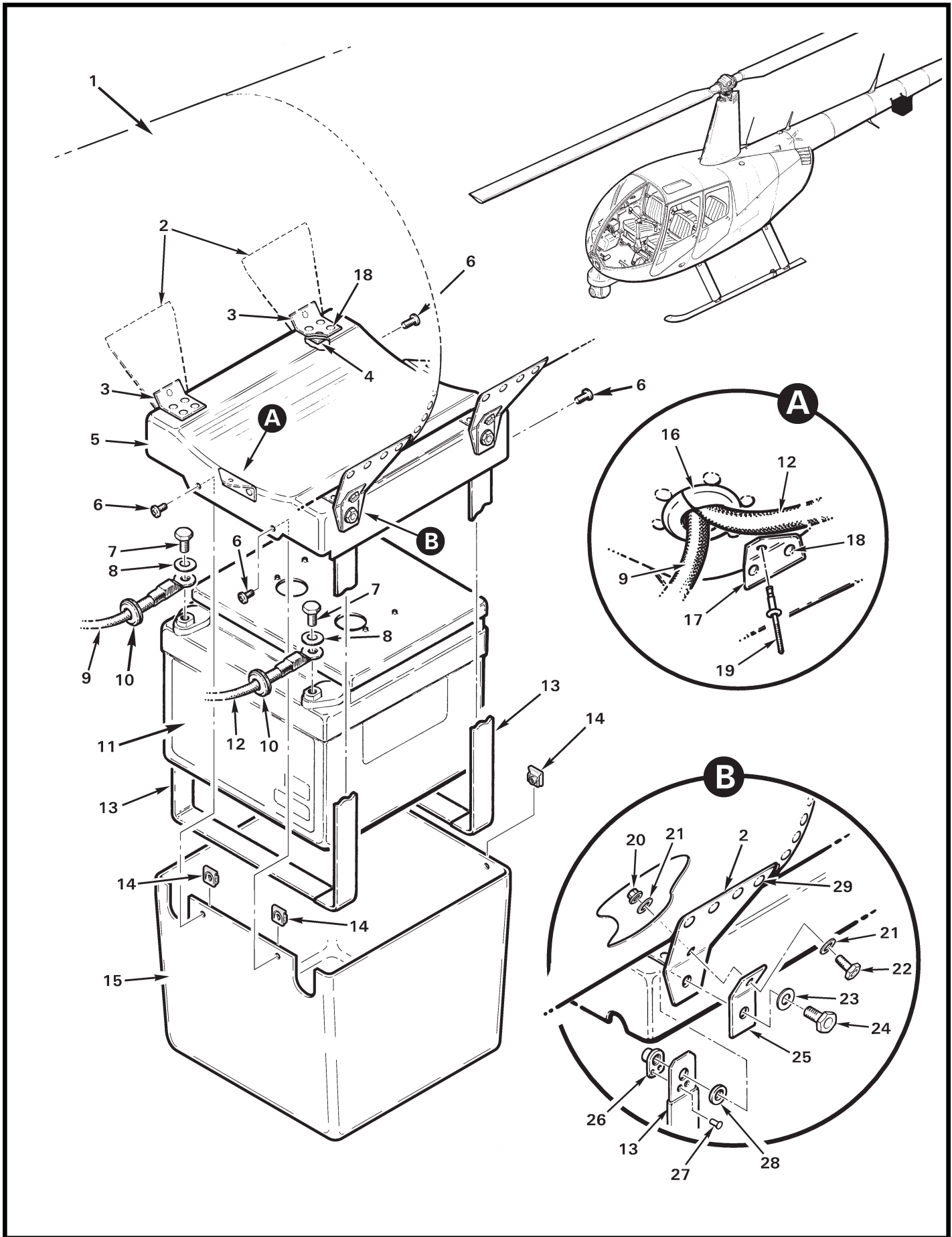




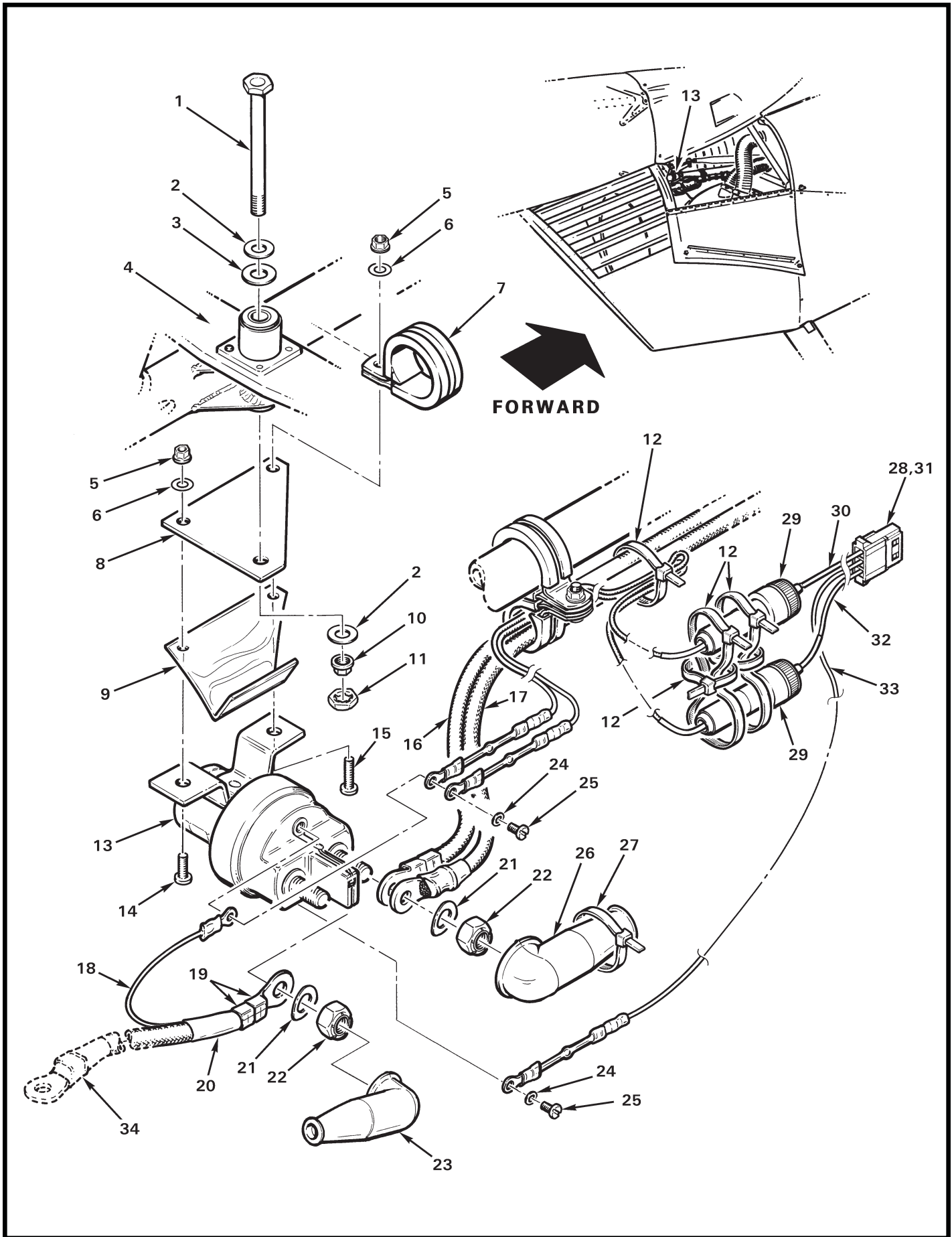
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|---|-------------|---------------------------------------|----------------|----------------------|--------------------|
| BATTERY CHARGING POST INSTALLATION | | | | | |
| 8-69B-1 | A959-10 | Cap | X | | 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) | | | |



| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|---------------|---|-------------|----------------|--------------|
| | | TAILCONE BATTERY INSTALLATION | | | |
| 8-69D-1 | C023 | Tailcone Assembly (Ref, see Figure 2-7) | | | |
| 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 (24-volt, includes items 7 and 9) | 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 |
| | | *D361 Revision "F" and prior. | | | |



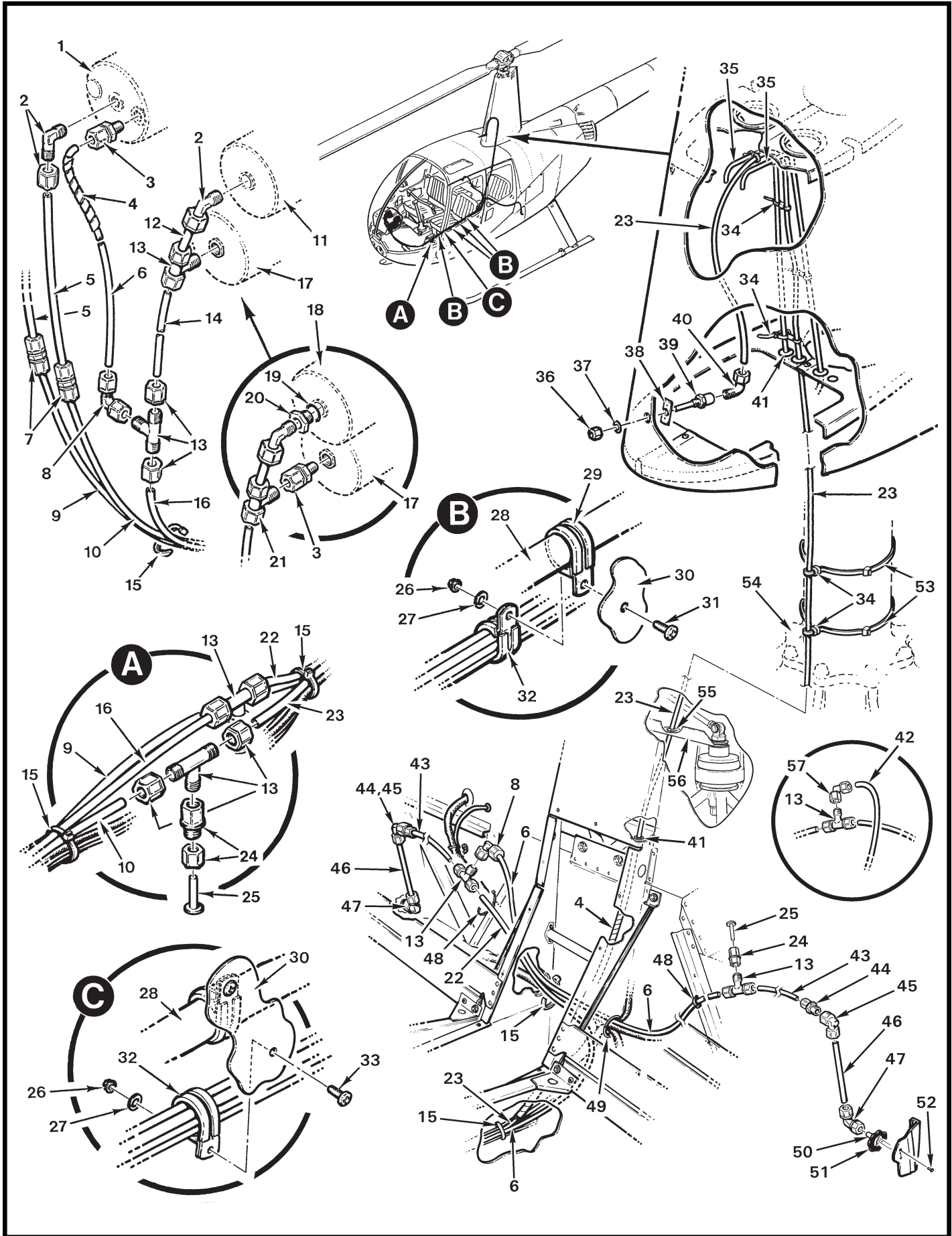
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|---------------|--|-------------|----------------|--------------|
| | | TAILCONE BATTERY INSTALLATION | | | |
| 8-69F-1 | C023 | Tailcone Assembly (Ref, see Figure 2-7) | | | |
| 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 (24-volt, includes items 7 and 8) | 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 |
| | | *D361 Revision "G" and higher. | | | |



| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|----------------|---|-------------|----------------|--------------|
| | | RELAY INSTALLATION - TAILCONE BATTERY | | | |
| 8-69H-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 | MS21042L4* | 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 (Ref) | 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 #1) | | | |
| | | *See Figure 7-39. | | | |
| | | (Cont'd) | | | |

| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|----------------------------------|-------------|---|----------------|----------------------|--------------------|
| | | RELAY INSTALLATION - TAILCONE BATTERY (Cont'd) | | | |
| 8-69H-31 | B263-15 | Housing | X | | 1 |
| | B263-2 | Socket | X | | 3 |
| 32 | -1226 | Wire (Ref, housing slot #3) | | | |
| 33 | -65 | Wire (Ref, housing slot #2) | | | |
| 34 | A780-29 | Cable Assembly - Battery Positive (Ref, see Figure 8-69D. Does not include items 18, 19, or 20.) | | | |

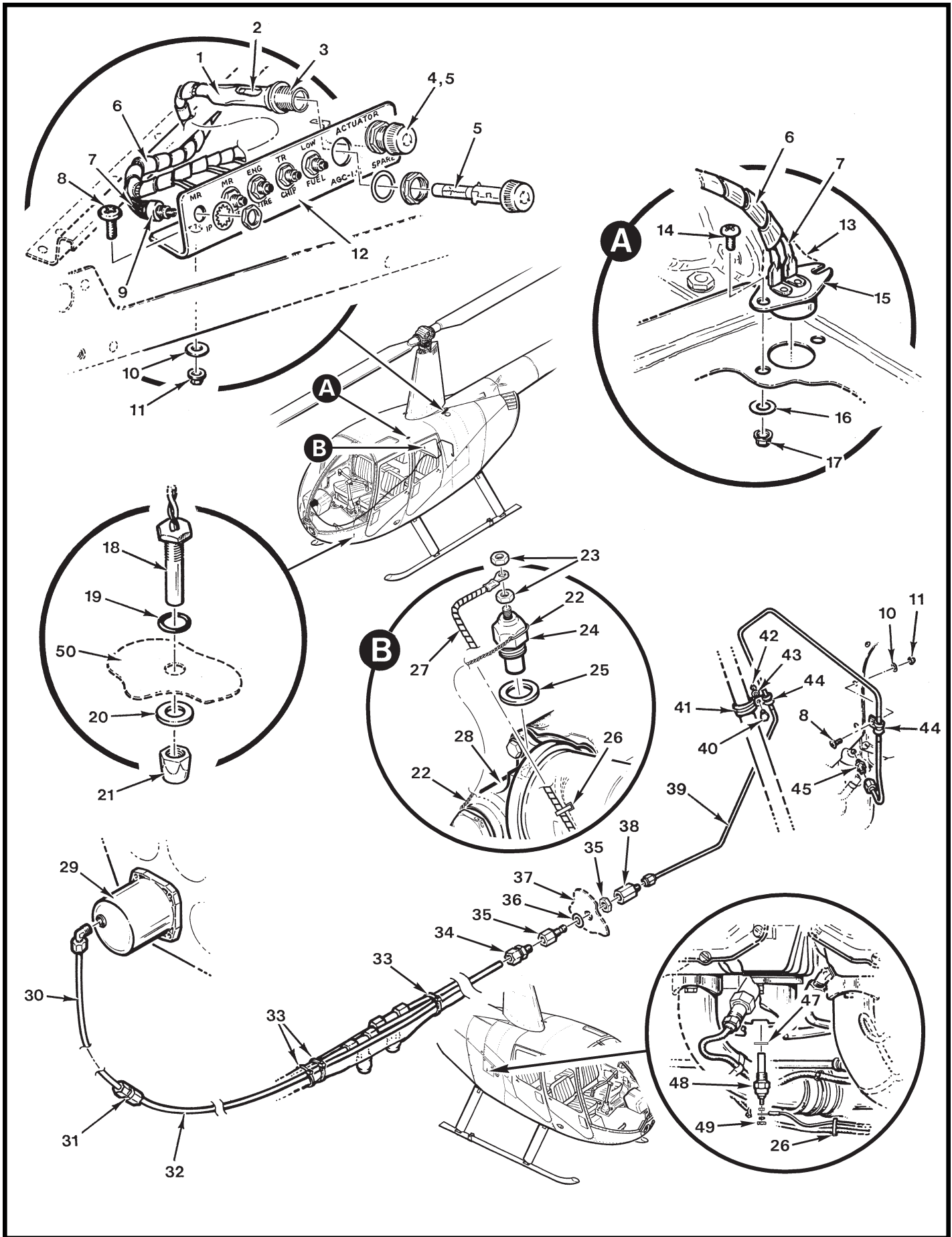
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| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|---------------|---|-------------|----------------|--------------|
| | | PITOT/STATIC LINES INSTALLATION* | | | |
| 8-71-1 | C599-1 | Airspeed Indicator (Ref) | | | |
| 2 | 40-4-2-N-0 | Elbow | X | | 2 |
| 3 | 10-4-2-N-0 | Fitting ([2] per ship required when item 18 is installed) . . | X | | 1 |
| 4 | B161-4 | Spirap | X | | A/R |
| 5 | A729-21 | Tube | X | | 2 |
| 6 | A729-23 | Tube | X | | 2 |
| 7 | 15-4-N-0 | Union | X | | 2 |
| 8 | 45-4-2-N-0 | Elbow | X | | 2 |
| 9 | A729-15 | Tube (Ref, to manifold pressure gauge; see Figure 8-57) | | | |
| 10 | A729-6 | Tube (7-hole console) | X | | 1 |
| | A729-13 | Tube (9-hole console) | X | | 1 |
| 11 | A602-1 | Rate-of-Climb Indicator (Ref) | | | |
| 12 | A729-26 | Tube | X | | 1 |
| 13 | 60-4-2-N-0 | Tee | X | | 6 |
| 14 | A729-25 | Tube | X | | 1 |
| 15 | MS3367-5-9 | Ty-Rap (or MS3367-4-9) | X | | A/R |
| 16 | A729-11 | Tube | X | | 1 |
| 17 | A613 | Altimeter (Ref, see Figure 8-11) | | | |
| 18 | A602-2 | Rate-of-Climb Indicator (Ref, IVSI; optional) | | | |
| 19 | MS28778-6 | Packing (o-ring) | X | | 1 |
| 20 | A763-1 | Adapter | X | | 1 |
| 21 | 70-4-N-0 | Tee (7-hole console) | X | | 1 |
| | 60-4-2-N-0 | Tee (10-hole console) | X | | 1 |
| 22 | A729-18 | Tube | X | | 1 |
| 23 | A729-14 | Tube (pitot) | X | | 1 |
| 24 | 25-4-2-N-0 | Fitting | X | | 2 |
| 25 | PI0808S | Plug | X | | 2 |
| 26 | MS21042L08 | Nut | X | | 6 |
| 27 | NAS1149FN816P | Washer | X | | 6 |
| 28 | C059 | Wire Harness (Ref) | | | |
| 29 | MS21919WDG12 | Clamp | X | | 6 |
| 30 | C293 | Keel Panel - (Ref, LH) | | | |
| | | * 7-hole console installation shown. (Cont'd) | | | |

| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|--|--------------|--|-------------|----------------|--------------|
| PITOT/STATIC LINES INSTALLATION (Cont'd) | | | | | |
| 8-71-31 | MS27039C0806 | Screw | X | | 5 |
| 32 | MS21919WDG9 | Clamp | X | | 6 |
| 33 | MS27039C0806 | Screw | X | | 5 |
| 34 | MS3367-4-9 | Ty-Rap | X | | 12 |
| 35 | C731-1 | Fuel Vent Line (Ref, see also Figure 8-1) | | | |
| 36 | MS21083-N5 | Nut | X | | 1 |
| 37 | AN960PD516L | Washer | X | | 1 |
| 38 | A246-3 | Spacer | X | | 1 |
| 39 | A262-1 | Fitting - Pitot Tube | X | | 1 |
| 40 | A596-1 | Elbow | X | | 1 |
| 41 | NAS557-4A | Grommet | X | | 1 |
| 42 | A729-25 | Tube (Use with B240-1 Blind Encoder. See Figure 9-33.) . | X | | 1 |
| 43 | A729-12 | Tube (static) | X | | 2 |
| 44 | 10-4-6-N-0 | Fitting | X | | 2 |
| 45 | 45-6-6-N-0 | Elbow | X | | 2 |
| 46 | A729-32 | Tube | X | | 2 |
| 47 | 50-6-N-0 | Elbow | X | | 2 |
| 48 | MS3367-5-9 | Ty-Rap | X | | 2 |
| 49 | NAS557-22A | Grommet | X | | 2 |
| 50 | C262-2 | Fitting (install using items 51 and 52) | X | | 1 |
| 51 | B270-1 | Sealant (2-oz tube) | X | | A/R |
| 52 | NAS1097AD3 | Rivet | X | | 2 |
| 53 | MS3367-7-9 | Ty-rap (use [two] of item 34 as "stand off") | X | | 2 |
| 54 | C006 | Main Rotor Gearbox (Ref) | | | |
| 55 | 2813 | Bushing (Ref, see Figure 7-53) | | | |
| 56 | C559-6 | Brace (Ref, see Figure 7-53) | | | |
| 57 | 45-4-2-N-0 | Elbow (Use with B240-1 Blind Encoder. See Figure 8-31.) | X | | 1 |

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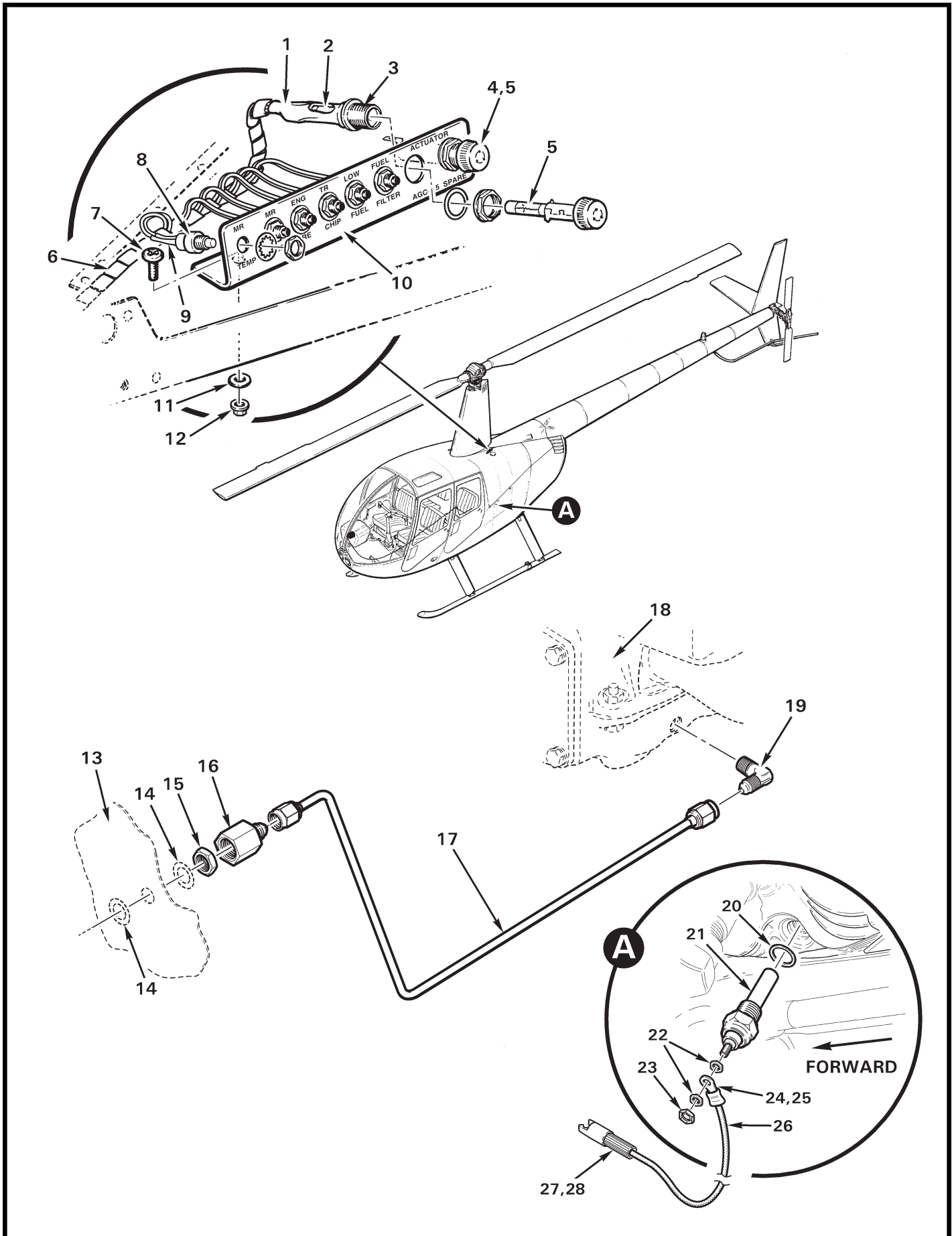


8-74 FIGURE 8-75 INSTRUMENT SENDERS AND TEST SWITCHES Issued: JUL 2008
 (Ship S/N 0001 thru 9999)

| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|--|---------------|--|-------------|----------------|--------------|
| INSTRUMENT SENDERS AND TEST SWITCHES (Ship S/N 0001 thru 9999) | | | | | |
| 8-75-1 | B158-6 | Heat Shrink (around fuse holder) | X | | A/R |
| 2 | B158-3 | Heat Shrink (around wires) | X | | A/R |
| 3 | HTB-62I | Fuse Holder (clutch actuator) | X | | 1 |
| 4 | HTB-62I | Fuse Holder (spare) | X | | 1 |
| 5 | AGC-3 | Fuse (3-amp, 14-volt ships) | X | | 2 |
| | AGC-1.5 | 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 | B270-4 | 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 - Outside Air Temperature (includes items 19 thru 21 and connectors) | 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 (Incl items 23 and 25) | X | | 1 |
| 25 | 15-724* | Gasket | X | | 1 |
| 26 | MS3367-4-9 | Ty-Rap | X | | A/R |
| 27 | B161-2 | Spirap | X | | A/R |
| 28 | D723 | Oil Filter Adapter (Ref) | | | |
| 29 | A600-4 | Manifold Pressure Gauge (Ref; see Figure 8-11) | | | |
| 30 | A729-21 | Tube | X | | 1 |
| | | *Rochester Gauges part no. | | | (Cont'd) |

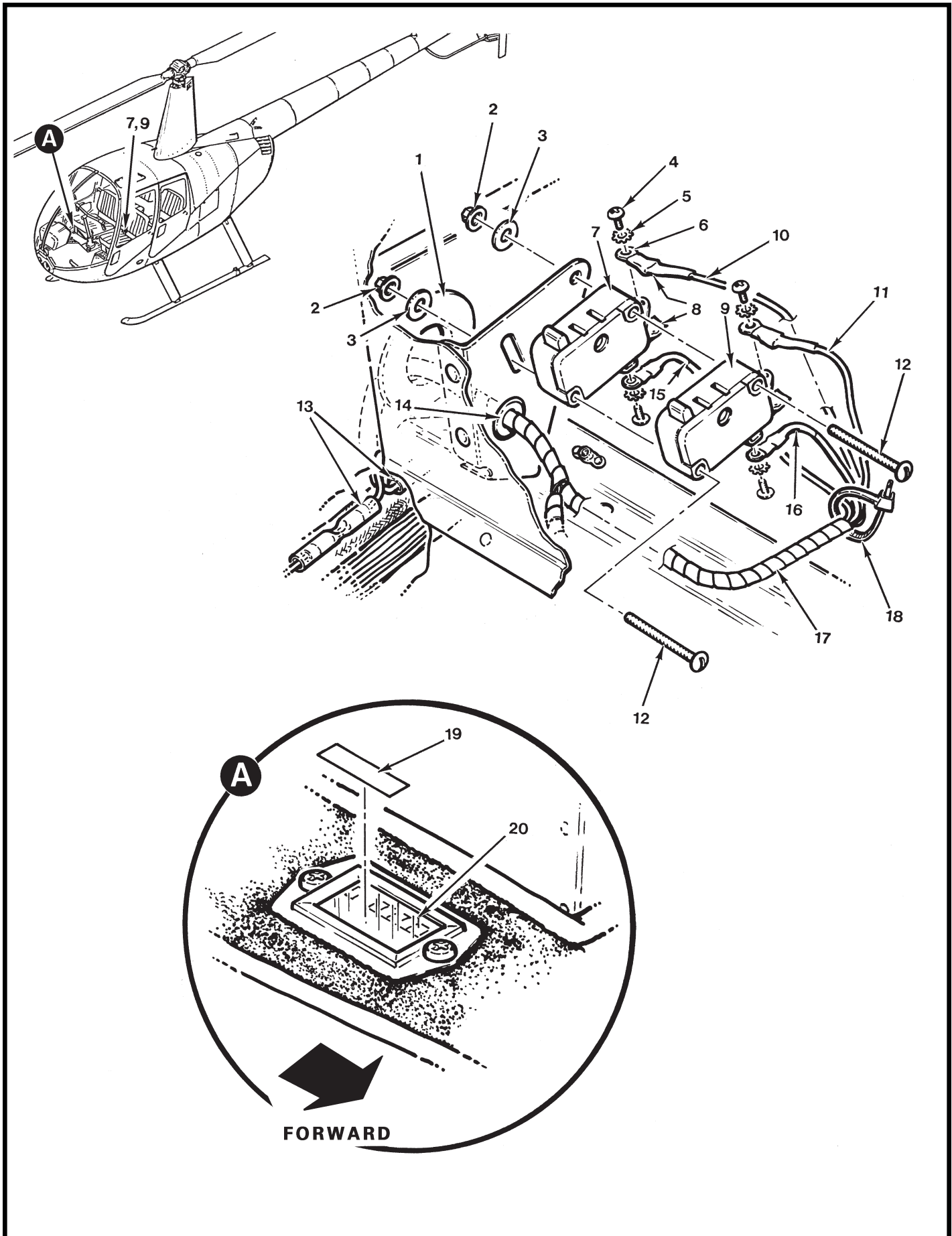
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|---------------|--|-------------|----------------|--------------|
| | | INSTRUMENT SENDERS AND TEST SWITCHES (Cont'd) (Ship S/N 0001 thru 9999) | | | |
| 8-75-31 | 15-4-N-0 | Union | X | | 1 |
| 32 | A729-15 | Tube | X | | 1 |
| 33 | MS3367-4-9 | Ty-Rap (or MS3367-5-9) | X | | A/R |
| 34 | 10-4-2-N-0 | Fitting (install using B270-6 on threads) | X | | 1 |
| | B270-6 | Sealant | X | | A/R |
| 35 | O253-2-4 | Bulkhead Adapter | X | | 1 |
| 36 | NAS1149F0732P | Washer | X | | 1 |
| 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 | 3080-38 | Cylinder Head Temperature Probe (includes item 47, and nuts) | X | | 1 |
| 49 | B330-2 | Palnut | X | | 1 |
| 50 | C272-1 | Chin (Ref) | | | |

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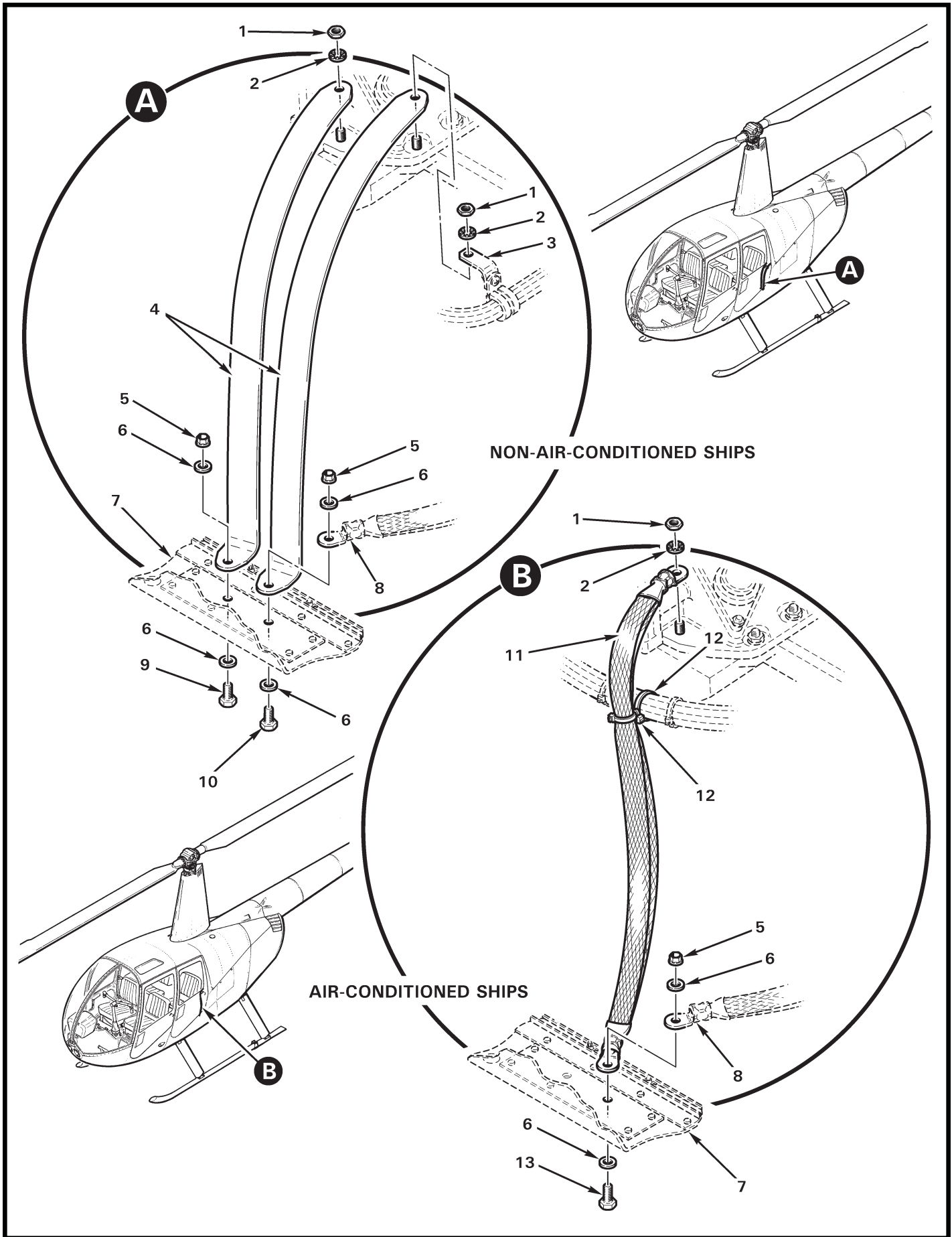
8-77A FIGURE 8-77B INSTRUMENT SENDERS AND TEST SWITCHES Issued: JUL 2008
(Ship S/N 10001 and higher)

| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|---------------|--|-------------|----------------|--------------|
| | | INSTRUMENT SENDERS AND TEST SWITCHES (Ship S/N 10001 and higher) | | | |
| 8-77B-1 | B158-6 | Heat Shrink (around fuse holder) | X | | A/R |
| 2 | B158-3 | Heat Shrink (around wires) | X | | A/R |
| 3 | HTB-62I | Fuse Holder (clutch actuator) | X | | 1 |
| 4 | HTB-62I | 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 | 3080-38 | Probe - Cylinder Head Temperature (located at #5 cylinder; includes item 20) | X | | 1 |
| 22 | - | Nut | O | | A/R |
| 23 | B330-2 | Palnut | X | | 1 |
| 24 | B049-7 | Harness Assembly (includes 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 |
| | | *See also Figure 8-75. | | | |

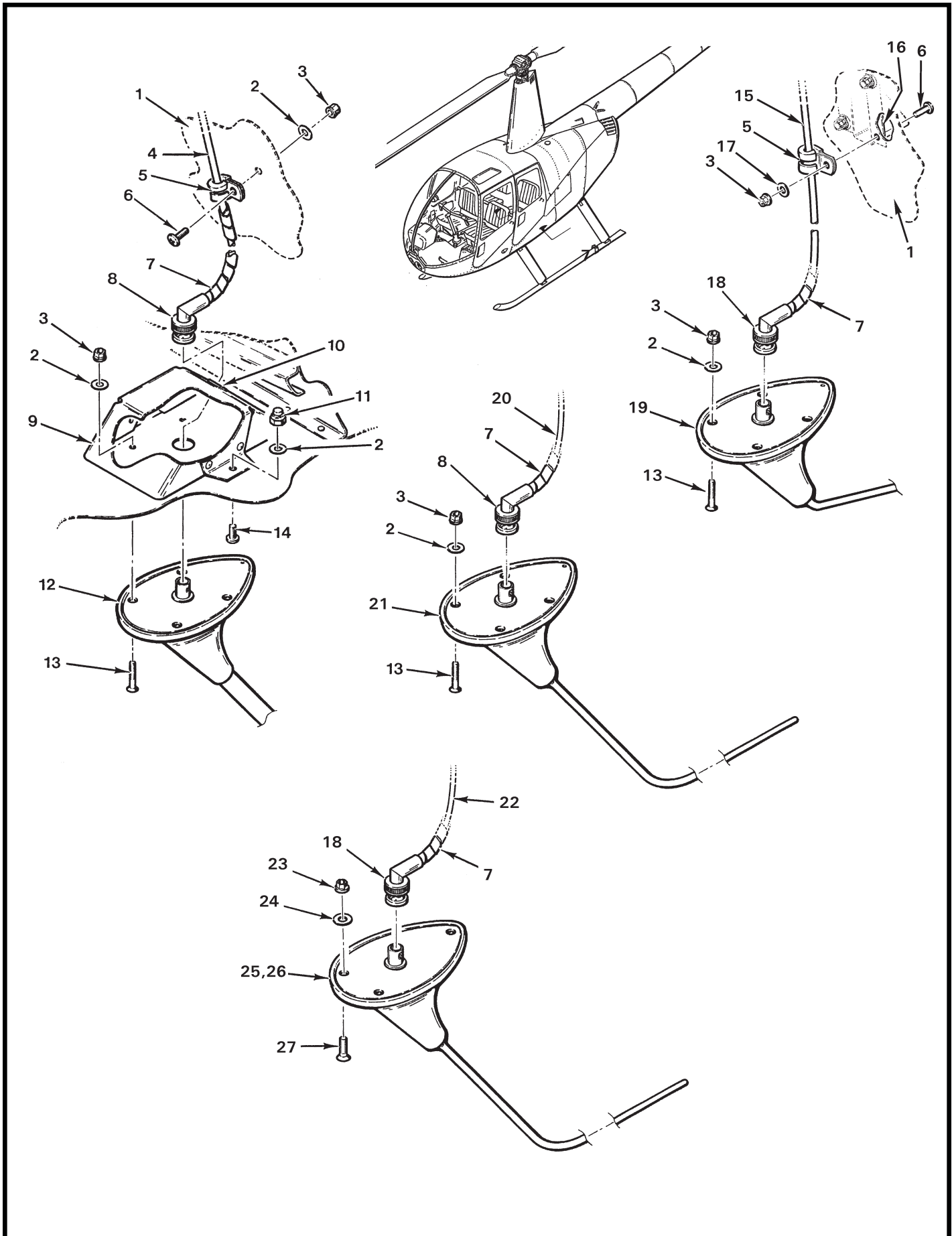


8-78 FIGURE 8-79 COLLECTIVE-ACTIVATED SWITCHES INSTALLATION Issued: JUL 2008

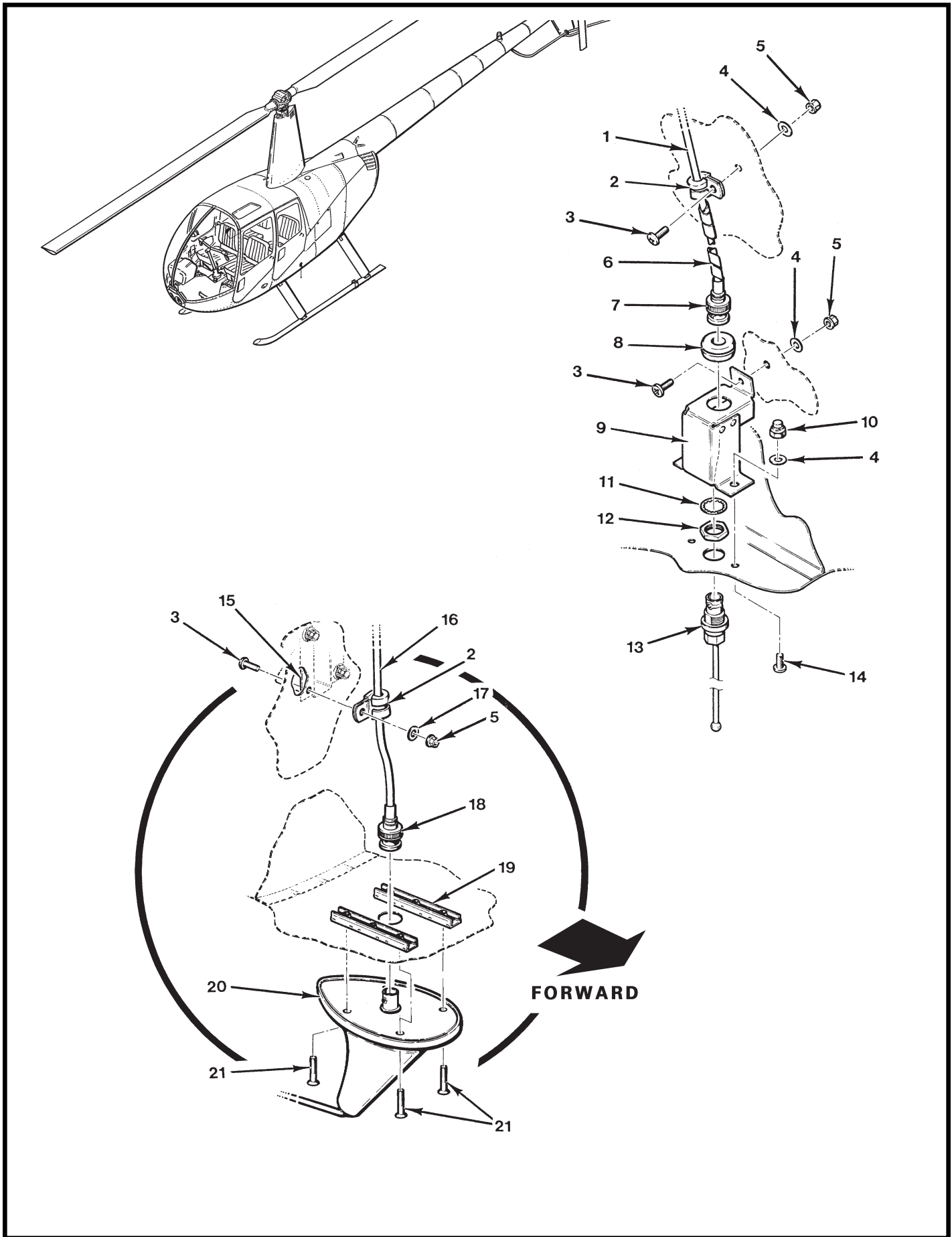
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|---------------|--|-------------|----------------|--------------|
| | | COLLECTIVE-ACTIVATED SWITCHES INSTALLATION | | | |
| 8-79-1 | MS35489-19 | Grommet | X | | 1 |
| 2 | 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 8-15) | | | |
| | | * * * | | | |
| 21 | KI-108 | Collective-Activated Hourmeter Switch Installation Kit (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 |



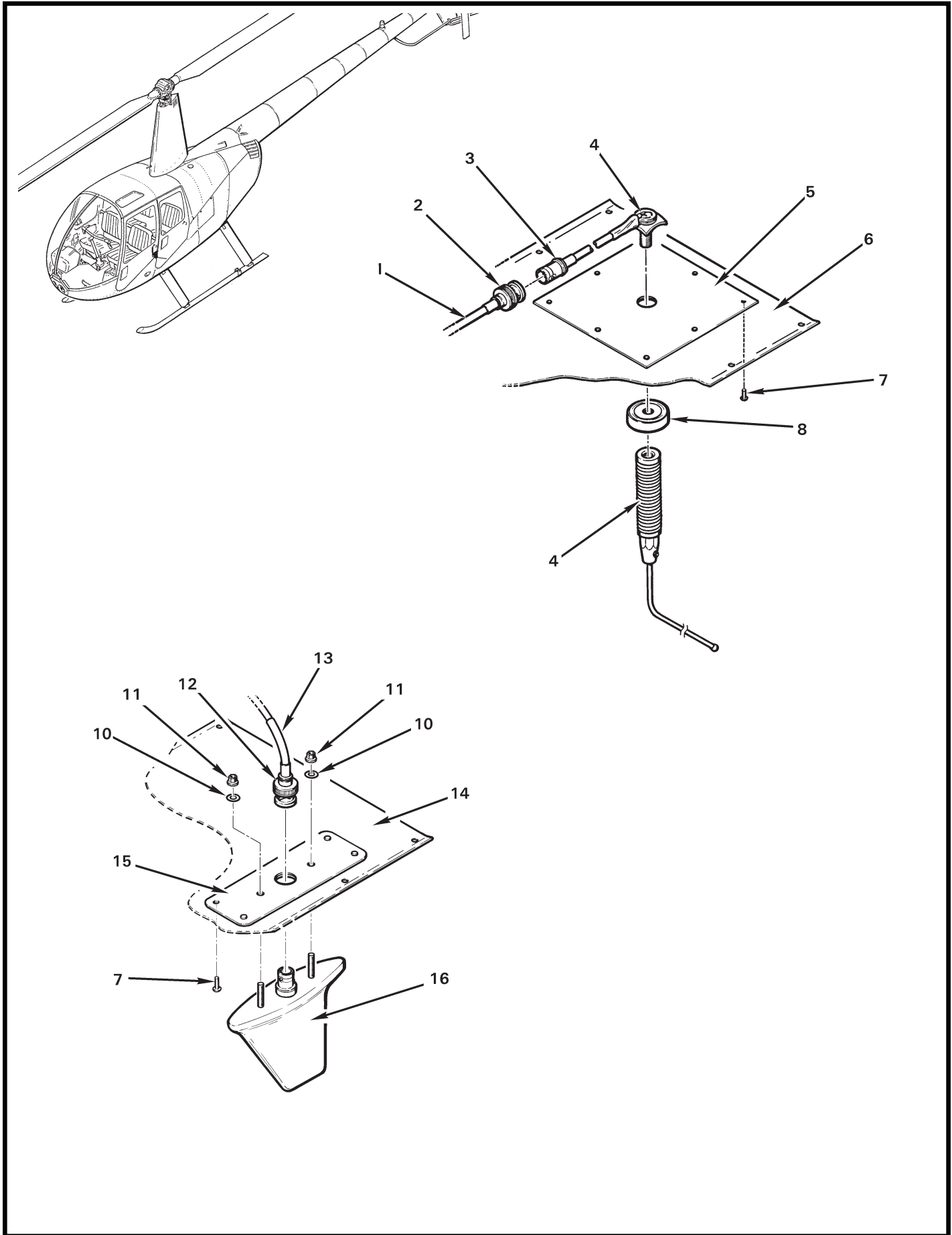
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|--|---------------|----------------------------|-------------|----------------|--------------|
| ENGINE GROUND STRAPS INSTALLATION | | | | | |
| 8-81-1 | STD-1411* | Nut | X | | 2 |
| 2 | STD-160* | 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 |
| *Lycoming part no. | | | | | |



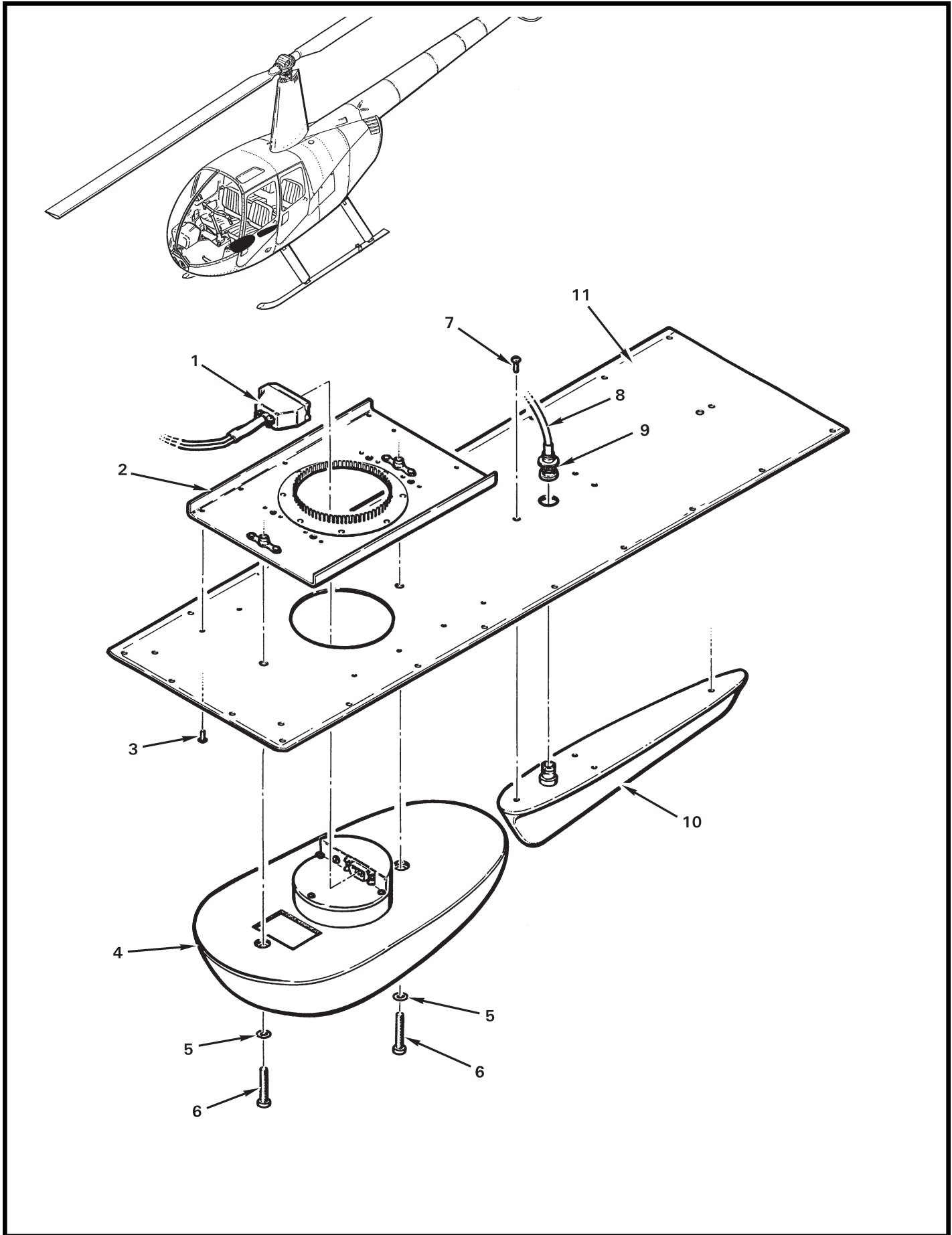
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|---------------|--|-------------|----------------|--------------|
| | | AFT BELLY ANTENNAS | | | |
| 8-83-1 | — | Firewall (vertical; Ref) | | | |
| 2 | NAS1149FN816P | Washer | X | | A/R |
| 3 | MS21042L08 | Nut | X | | 6 |
| 4 | C850-1012 | Wire (Ref) | | | |
| 5 | MS21919WDG3 | Clamp | X | | 1 |
| 6 | MS27039C0806 | Screw | X | | 1 |
| 7 | B161-4 | Spirap | X | | 1 |
| 8 | 225973-4 | Plug | X | | 1 |
| 9 | D384-2 | Cover | X | | 1 |
| 10 | NAS557-8A | Grommet | X | | 1 |
| 11 | B340-4 | Nut | X | | 2 |
| 12 | CI 177 | Antenna - FM (148-174 MHz) | X | | 1 |
| | CI 177-1 | Antenna - FM (138-174 MHz) | X | | 1 |
| | CI 177-20 | Antenna - FM (450-470 MHz) | X | | 1 |
| 13 | MS24694-C7 | Screw | X | | 4 |
| 14 | MS27039C0805 | Screw | X | | 2 |
| 15 | C850-1395 | Cable (Ref) | | | |
| 16 | A454-1 | Support - Gascolator (Ref, see also Figure 8-1) | | | |
| 17 | NAS1149FN832P | Washer | X | | 1 |
| 18 | 225974-1 | Plug | X | | 1 |
| 19 | CI 222 | Antenna - AM/FM (RH mount, non-ENG ships. 88-108 MHz, 550-1600 kHz.) | X | | 1 |
| 20 | C850-1214 | Cable (Ref) | | | |
| 21 | CI 122 | Antenna - Com (118-136 MHz) | X | | 1 |
| 22 | C850-941 | Cable (Ref, LH antenna installation) | | | |
| | C850-942 | Cable (Ref, RH antenna installation) | | | |
| | C850-1415 | Cable (Ref; used with item 26) | | | |
| 23 | MS21042L3 | Nut | X | | 3 |
| 24 | NAS1149F0332P | Washer | X | | 3 |
| 25 | CI 292-3 | Antenna - FM (RH or LH mount, 138-174 MHz. Supersedes DMC-63-3-A antenna.) | X | | 1 |
| 26 | D721-1 | Antenna - FM (LH mount, 220-225 MHz) | X | | 1 |
| 27 | MS24694-S51 | Screw | X | | 3 |



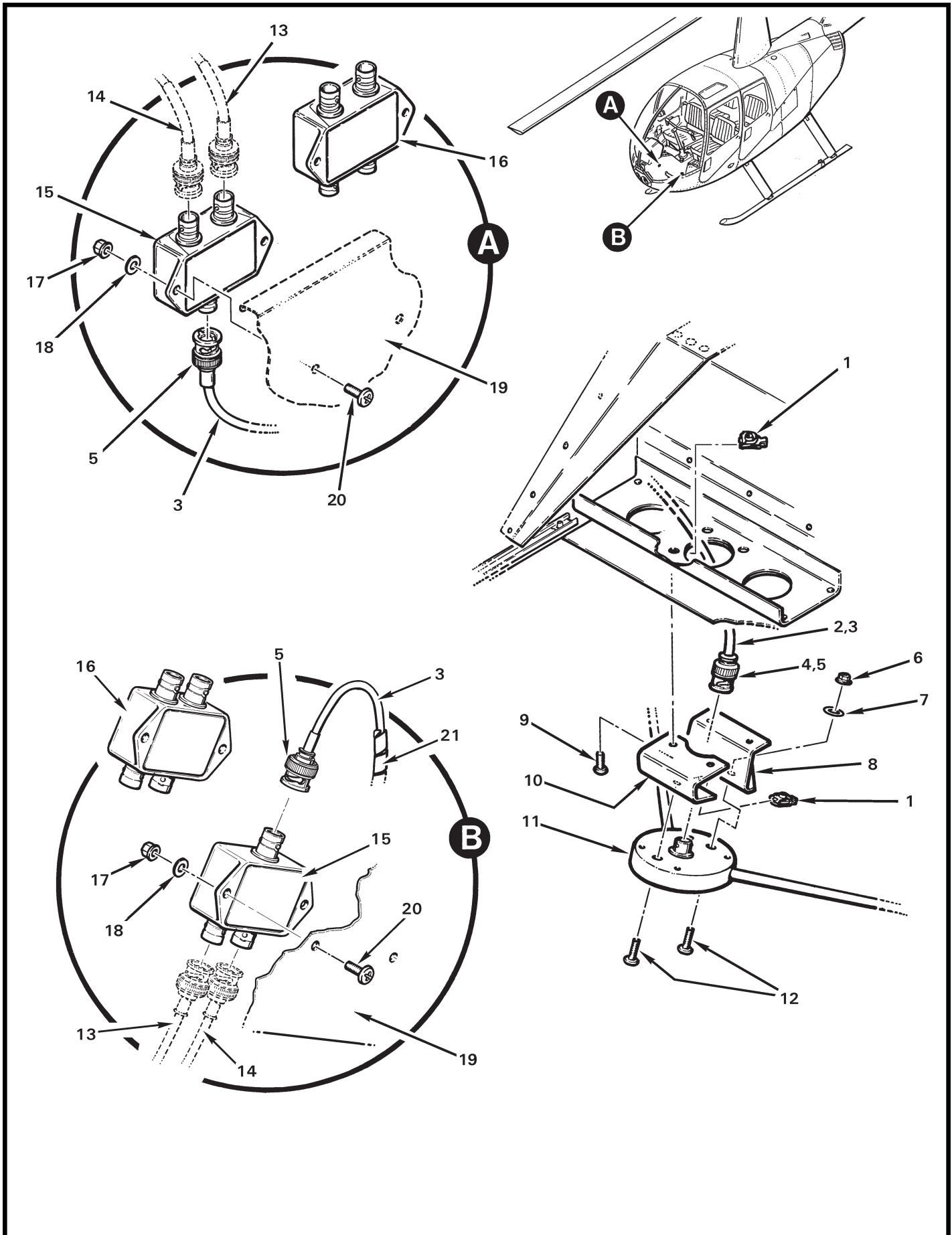
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|-------------------------|---------------|---|-------------|----------------|--------------|
| | | AFT BELLY ANTENNAS | | | |
| 8-85-1 | C850-1012 | Cable (Ref) | | | |
| 2 | MS21919WDG3 | Clamp | X | | 1 |
| 3 | MS27039C0806 | Screw | X | | 2 |
| 4 | NAS1149FN816P | Washer | X | | 4 |
| 5 | MS21042L08 | Nut | X | | 1 |
| 6 | B161-4 | Spirap | X | | A/R |
| 7 | 225395-6 | Plug | X | | 1 |
| 8 | MS35489-40 | Grommet | X | | 1 |
| 9 | D563-1 | Cover | X | | 1 |
| 10 | B340-4 | Nut | X | | 1 |
| 11 | - | Nut (Ref) | O | | 1 |
| 12 | - | Washer (Ref) | O | | 1 |
| 13 | CI 273 | Antenna - FM (403-512 MHz, includes items 11 and 12) | X | | 1 |
| 14 | MS27039C0805 | Screw | X | | 2 |
| 15 | A454-1 | Support (Ref, see also Figure 8-1) | | | |
| 16 | C850-1219 | Cable (Ref) | | | |
| 17 | NAS1149FN832P | Washer | X | | 1 |
| 18 | 225395-1 | Plug | X | | 1 |
| 19 | A738-21 | Gang Channel (Ref) | | | |
| 20 | CI 122 | Antenna - AM/FM (RH mount, ENG ships. 88-108 MHz/550-1600 kHz.) | X | | 1 |
| 21 | MS24694-C7 | Screw | X | | 4 |



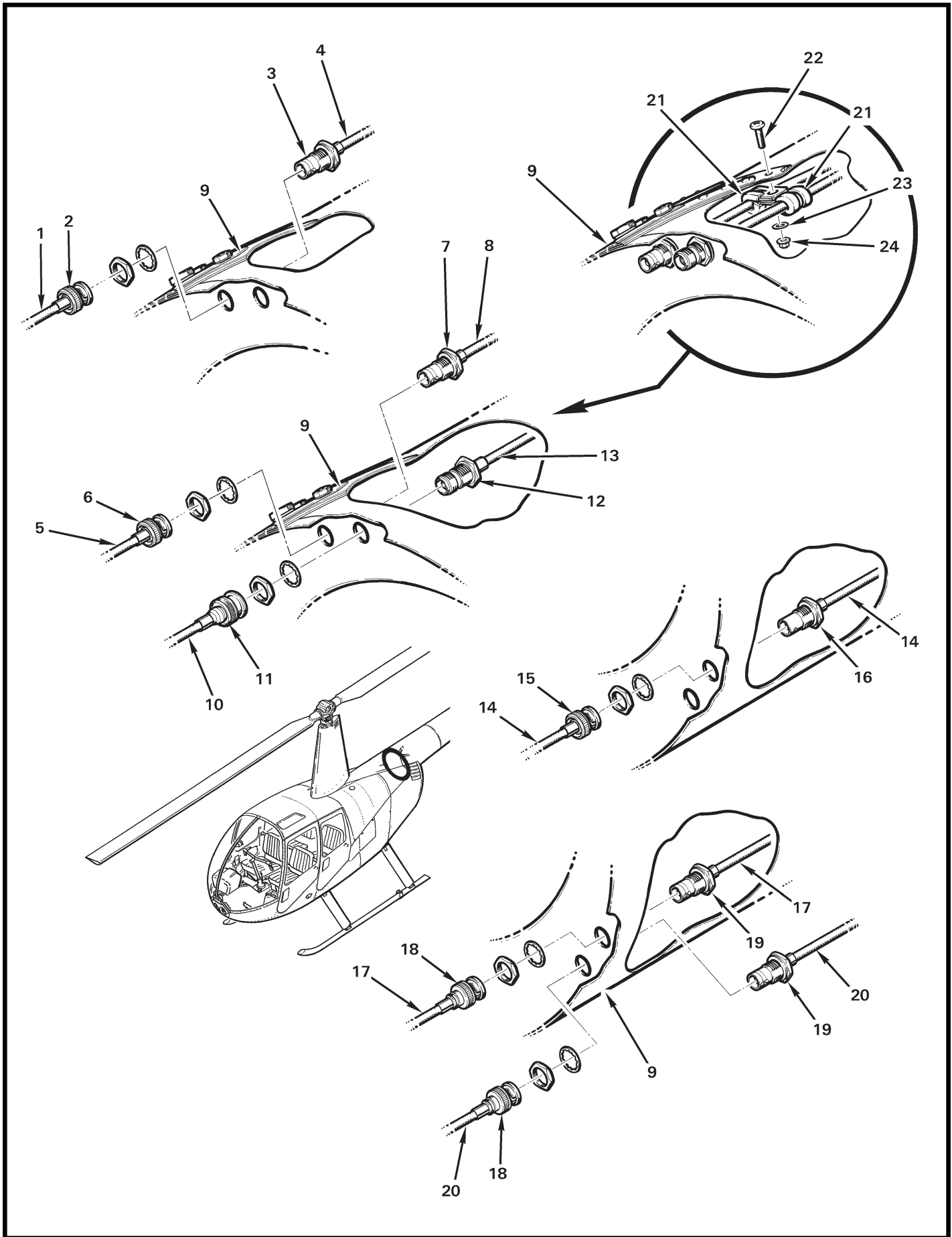
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|---|---------------|---|-------------|----------------|--------------|
| FM/DME ANTENNAS | | | | | |
| 8-87-1 | C850-943 | Cable (Ref) | | | |
| 2 | 225395-1 * | Plug | X | | 1 |
| 3 | 225396-1 * | Jack | X | | 1 |
| 4 | LMWBQK | Antenna - FM (includes item 8; install using item 9 on threads) | X | | 1 |
| 5 | A830-3 | Doubler | X | | 1 |
| 6 | C794-1 | Panel (Ref) | | | |
| 7 | MS20470AD3 | Rivet | X | | 1 |
| 8 | — | Spacer | O | | 1 |
| 9 | B270-11 | Adhesive (1.69-oz bottle) | X | | A/R |
| 10 | NAS1149FN816P | Washer | X | | 2 |
| 11 | MS21042L08 | Nut | X | | 2 |
| 12 | 225395-6 | Plug | X | | 1 |
| 13 | C850-452 | Cable (Ref) | | | |
| 14 | C794-3 | Panel (Ref) | | | |
| 15 | B10567 | Doubler | O | | 1 |
| 16 | CI-105-16* | Antenna - DME (alternate part no. KA 60**) | X | | 1 |
| * Comant Industries part no. ** Honeywell Bendix/King part no. | | | | | |



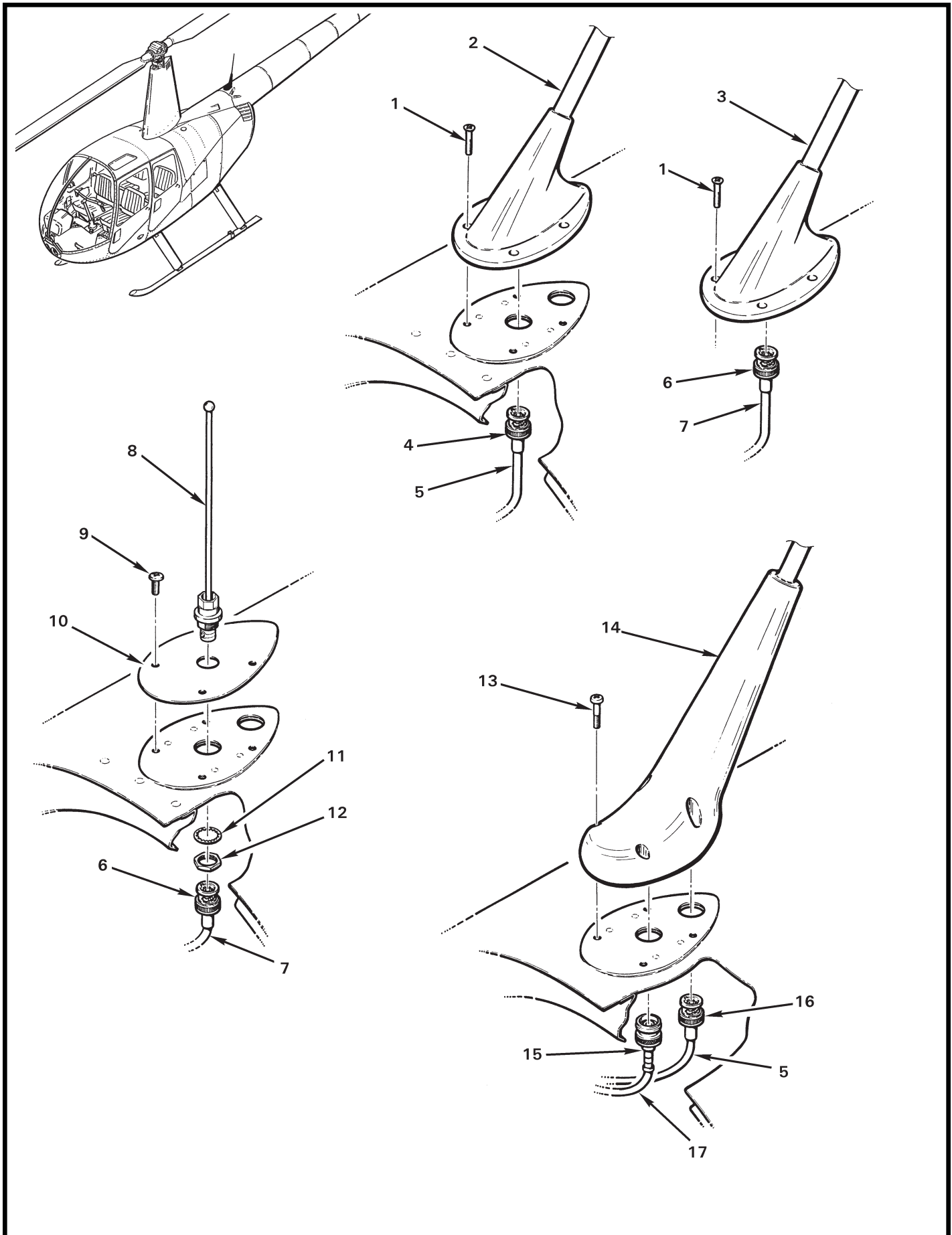
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|---|-----------------|--|-------------|----------------|--------------|
| ADF/MARKER BEACON ANTENNAS | | | | | |
| 8-89-1 | 200-2586-00 | Cable Assembly | O | | 1 |
| 2 | 047-04956-0003* | Doubler Plate | O | | 1 |
| 3 | MS20470AD3 | Rivet | X | | 10 |
| 4 | KA44B* | Antenna - ADF (Ref, includes item 1, 2, and 6) | | | |
| 5 | NAS1149F0463P | Washer | X | | 2 |
| 6 | 089-5660-20* | Screw | O | | 2 |
| 7 | MS27039C1-07 | Screw (install using item 12 on threads) | X | | 4 |
| 8 | C850-210 | Cable (Ref) | | | |
| 9 | 225395-1* | Plug | X | | 1 |
| 10 | CI 102** | Antenna - Marker Beacon | X | | 1 |
| 11 | C794-1 | Panel (Ref) | | | |
| 12 | B270-11 | Adhesive (1.69-oz bottle) | X | | A/R |
| *Honeywell Bendix/King part no. **Comant Industries part no. | | | | | |



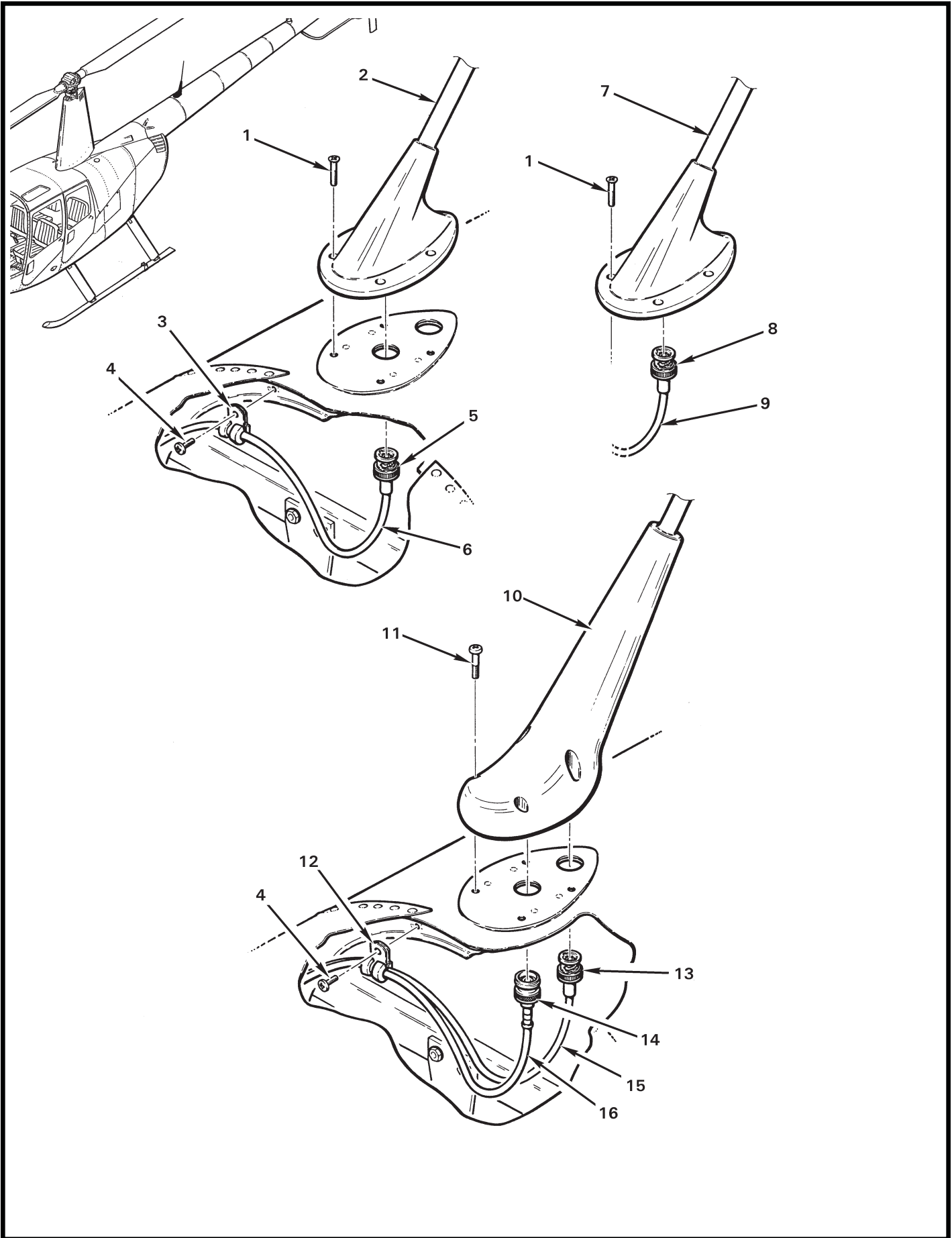
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|---------------------------------|---------------|---|-------------|----------------|--------------|
| NAV ANTENNA INSTALLATION | | | | | |
| 8-91-1 | B162-4 | Clipnut | X | | 4 |
| 2 | C850-240 | Cable (to radio) | X | | 1 |
| 3 | C850-241 | Cable (to item 15 or 16) | X | | 1 |
| 4 | 225395-1 | Plug (use with item 2) | X | | 1 |
| 5 | 225395-6 | Plug (use with item 3) | X | | A/R |
| 6 | MS21042L3 | Nut | X | | 2 |
| 7 | NAS1149F0332P | Washer | X | | 2 |
| 8 | B159-2 | Bracket | X | | 1 |
| 9 | MS27039C1-07 | Screw | X | | 4 |
| 10 | B159-1 | Bracket | X | | 1 |
| 11 | CI 259E* | Antenna (NAV) | X | | 1 |
| 12 | MS27039C1-12 | Screw | X | | 2 |
| 13 | -213 | Cable (Ref, to radio; NAV) | | | |
| 14 | -208 | Cable (Ref, to radio; GS) | | | |
| 15 | CI 507* | Diplexer | X | | 1 |
| 16 | CI 505* | Dual Diplexer (used only with two NAV receivers and glideslope) | X | | 1 |
| 17 | MS21042L08 | Nut | X | | 2 |
| 18 | NAS1149FN816P | Washer | X | | 2 |
| 19 | C359-1 | Console Panel - LH (Ref) | | | |
| 20 | MS27039C0806 | Screw | X | | 2 |
| 21 | B161-4 | Spirap | X | | A/R |
| *Comant Industries part no. | | | | | |



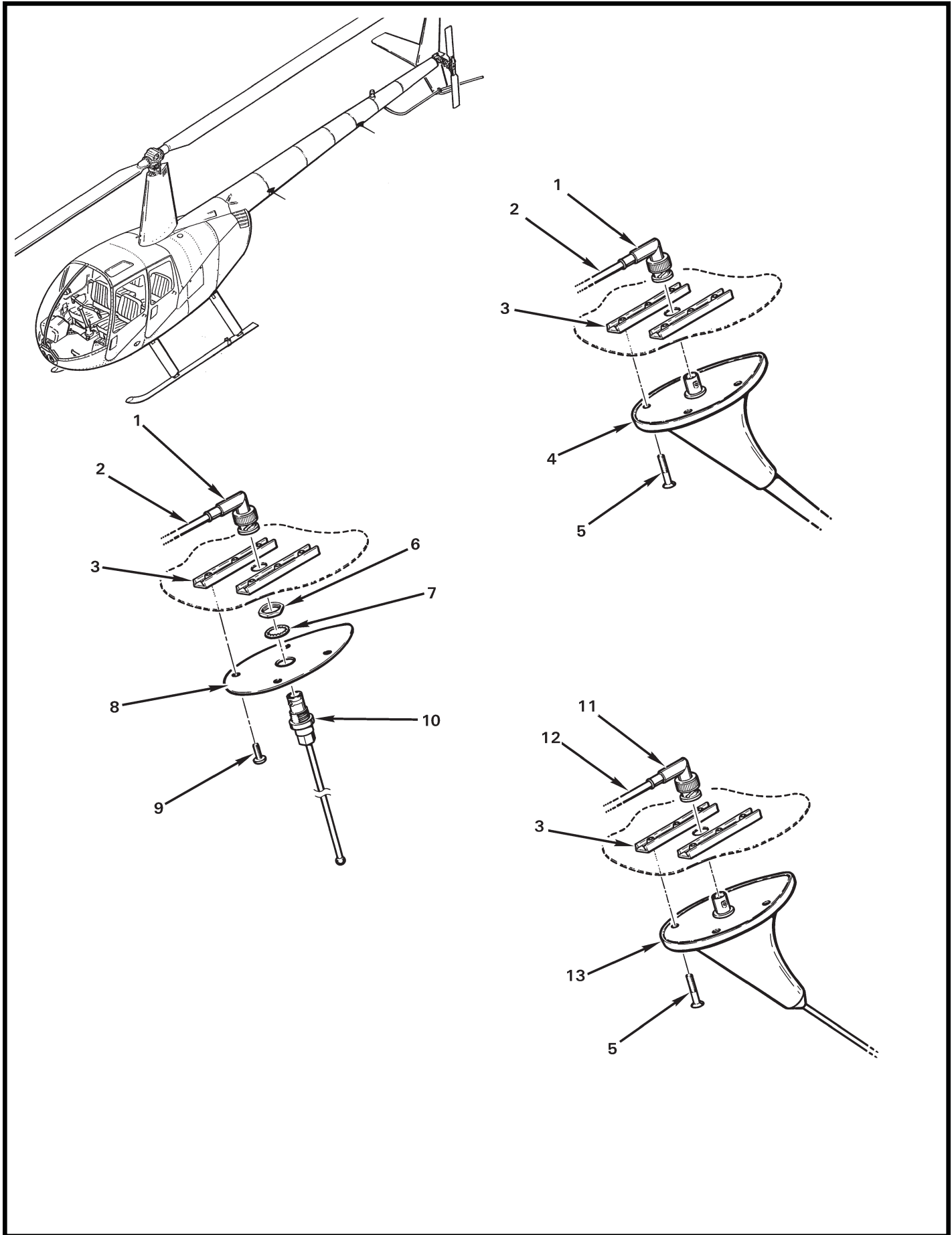
| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|---|---------------|--|-------------|----------------|--------------|
| TAILCONE ANTENNA CABLE CONNECTORS | | | | | |
| 8-93-1 | C850-1317 | Cable - Coaxial (FM or Com*) | X | | A/R |
| 2 | 225395-6 | Plug (FM or Com*) | X | | 1 |
| 3 | 225398-6 | Bulkhead Jack** (FM or Com*) | X | | 1 |
| 4 | B274-518 | Cable - Coaxial (FM or Com*) | X | | A/R |
| 5 | C850-212 | Cable - Coaxial (Com) | X | | A/R |
| 6 | 225395-1 | Plug (Com) | X | | 1 |
| 7 | 225398-1 | Bulkhead Jack ** (Com) | X | | 1 |
| 8 | B274-520 | Cable - Coaxial (Com) | X | | A/R |
| 9 | C023 | Tailcone (Ref) | | | |
| 10 | C850-468 | Cable - Coaxial (GPS) | X | | A/R |
| 11 | 225555-6 | Plug (GPS) | X | | 1 |
| 12 | 225557-6 | Bulkhead Jack** (GPS) | X | | 1 |
| 13 | B274-518 | Cable - Coaxial (GPS) | X | | A/R |
| 14 | C023-1013 | Cable - Coaxial (VHF, ENG ships) | X | | A/R |
| 15 | 221185-2 | Plug (VHF) | X | | 1 |
| 16 | 221221-2 | Bulkhead Jack** (VHF) | X | | 1 |
| 17 | C023-822 | Cable - Coaxial (FM, lower aft tailcone installation for Police ships) | X | | A/R |
| 18 | 225395-6 | Plug (FM) | X | | A/R |
| 19 | 225398-6 | Bulkhead Jack** (FM) | X | | A/R |
| 20 | C023-821 | Cable - Coaxial (FM, lower forward tailcone installation for Police and ENG ships) | X | | A/R |
| 21 | MS21919WDG3 | Clamp | X | | A/R |
| 22 | MS27039C0809 | Screw | X | | 1 |
| 23 | NAS1149FN816P | Washer | X | | 1 |
| 24 | MS21042L08 | Nut | X | | 1 |
| <p>* ENG ships. ** Includes washer and nut as shown.</p> | | | | | |



| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|--|--------------|---|-------------|----------------|--------------|
| FORWARD UPPER TAILCONE ANTENNAS | | | | | |
| 8-95-1 | MS24694-C7 | Screw | X | | 4 |
| 2 | CI 121* | Antenna - Com (118-156 MHz; install using item 18 around screw heads and holes. Alternate part no. CI-248-5*) | X | | 1 |
| 3 | CI 177* | Antenna - FM (148-174 MHz; install using item 18 around screw heads and holes) | X | | 1 |
| 4 | 225395-1 | Plug | X | | 1 |
| 5 | C850-212 | Cable (Ref) | | | |
| 6 | 225395-6 | Plug | X | | 1 |
| 7 | C850-1213 | Cable (Ref) | | | |
| 8 | CI 273* | Antenna - FM (403-512 MHz; includes items 11 and 12) | X | | 1 |
| 9 | MS27039C0806 | Screw | X | | 4 |
| 10 | B322-4 | Cover | X | | 1 |
| 11 | - | Washer | O | | 1 |
| 12 | - | Nut | O | | 1 |
| 13 | MS27039C0813 | Screw | X | | 4 |
| 14 | CI-2480-201* | Antenna - Com/GPS (install using item 18 around screw heads and holes; supersedes CI-4510-7C) | X | | 1 |
| 15 | 225555-6 | Plug (GPS) | X | | 1 |
| 16 | 225395-1 | Plug (Com) | X | | 1 |
| 17 | C850-468 | Cable (Ref) | | | |
| 18 | B270-4 | Sealant | X | | A/R |
| *Comant Industries part no. | | | | | |



| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|------------------------------------|---------------|---|-------------|----------------|--------------|
| AFT UPPER TAILCONE ANTENNAS | | | | | |
| 8-97-1 | MS24694-C7 | Screw | X | | 4 |
| 2 | CI 121 * | Antenna - VHF (118-136 MHz; install using item 17 on screw heads and holes. Alternate part no. CI-248-5*) | X | | 1 |
| 3 | MS21919WDG3 | Clamp | X | | 1 |
| 4 | MS27039C0806 | Screw | X | | 1 |
| 5 | 225395-1 | Plug | X | | 1 |
| 6 | B274-520 | Cable (Ref) | | | |
| 7 | CI 177 * | Antenna - FM (148-174 MHz) | X | | 1 |
| | CI 177-1 * | Antenna - FM (138-174 MHz) | X | | 1 |
| | CI 177-20 * | Antenna - FM (450-470 MHz) | X | | 1 |
| 8 | 225395-6 | Plug | X | | 1 |
| 9 | B274-518 | Cable (Ref) | | | |
| 10 | CI-2480-201 * | Antenna - Com/GPS (install using item 17 on screw heads and holes; supersedes CI-4510-7C) | X | | 1 |
| 11 | MS27039C0813 | Screw | X | | 1 |
| 12 | MS21919WDG6 | Clamp | X | | 1 |
| 13 | 225395-1 | Plug (Com, non-ENG/Police ships) | X | | 1 |
| | 225395-6 | Plug (Com, ENG/Police ships) | X | | 1 |
| 14 | 225555-6 | Plug (GPS) | X | | 1 |
| 15 | B274-520 | Cable (Ref; Com, non-ENG ships) | | | |
| | B274-518 | Cable (Ref; Com, ENG/Police ships) | | | |
| 16 | B274-518 | Cable (Ref; GPS) | | | |
| 17 | B270-4 | Sealant | X | | A/R |
| *Comant Industries part no. | | | | | |



| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION | PARTS AVAIL | USABLE ON CODE | QTY PER ASSY |
|--|--------------|--|-------------|----------------|--------------|
| LOWER-MOUNTED TAILCONE ANTENNAS | | | | | |
| 8-99-1 | 225973-4 | Plug | X | | 1 |
| 2 | C023-821 | Cable (Ref, forward mount) | | | |
| | C023-822 | Cable (Ref, aft mount) | | | |
| 3 | A738-21 | Gang Channel (Ref) | | | |
| 4 | CI 177* | Antenna - FM (148-174 MHz) | X | | 1 |
| | CI 177-1* | Antenna - FM (138-174 MHz) | X | | 1 |
| | CI 177-20* | Antenna - FM (450-470 MHz) | X | | 1 |
| 5 | MS24694-C7 | Screw | X | | 4 |
| 6 | - | Nut | O | | 1 |
| 7 | - | Washer | O | | 1 |
| 8 | B322-4 | Cover | X | | 1 |
| 9 | MS27039C0806 | Screw | X | | 4 |
| 10 | CI 273* | Antenna - FM (403-512 MHz, includes items 6 and 7) . . | X | | 1 |
| 11 | 221402-2 | Plug | X | | 1 |
| 12 | C023-1013 | Cable (Ref) | | | |
| 13 | CI 122* | Antenna-VHF (118-136 MHz) | X | | 1 |
| *Comant Industries part no. | | | | | |