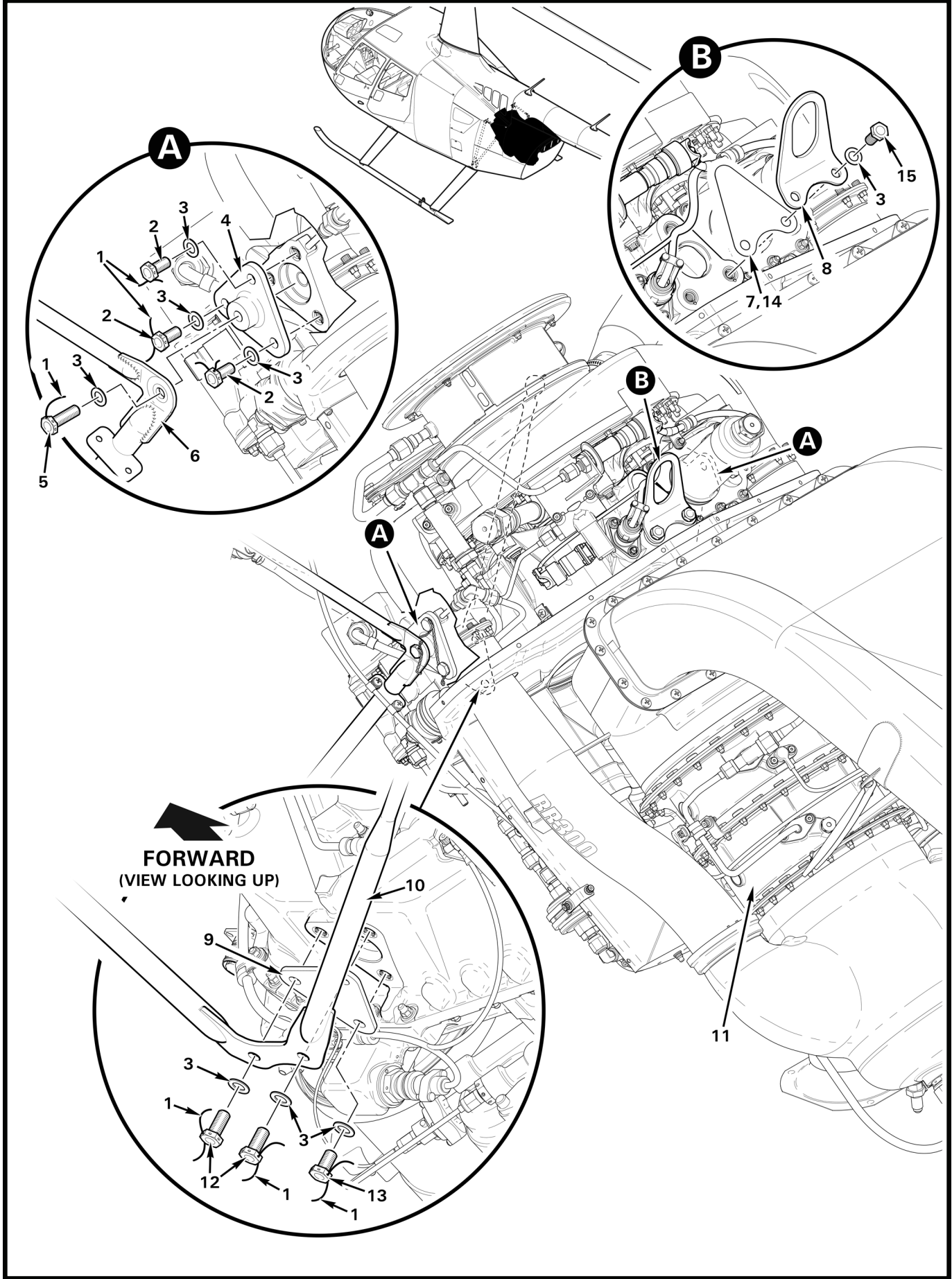


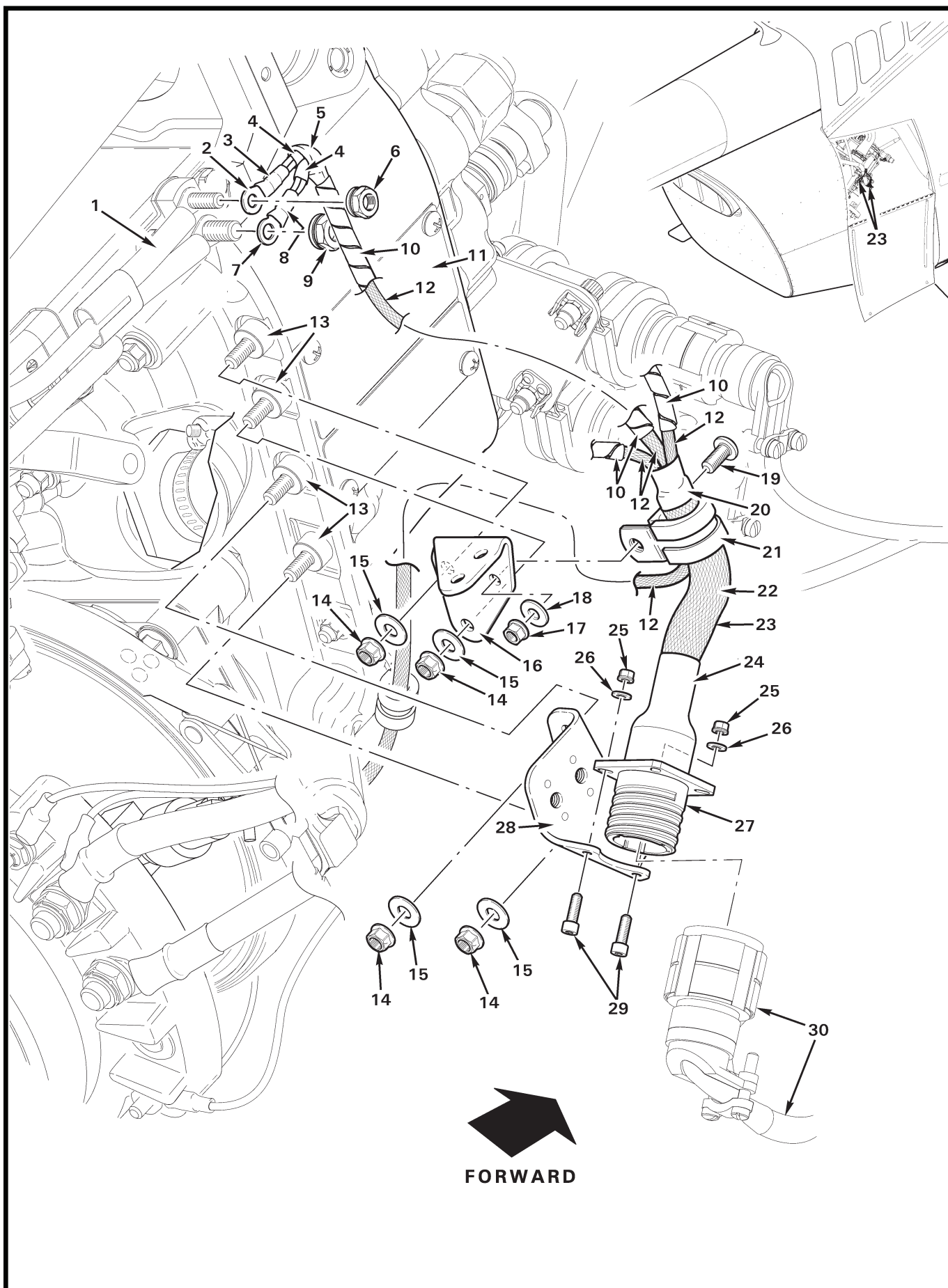
## CHAPTER 71

### POWERPLANT

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|---------------|-----------------------------------------------------------------------|-------------|
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| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                                               | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|---------------|-----------------------------------------------------------|----------------|--------------------|
|                                  |               | ENGINE INSTALLATION                                       |                |                    |
| 71-1-1                           | MS20995C32    | 0.032 in. dia Safety Wire . . . . .                       | X              | A/R                |
| 2                                | NAS6605H3     | Bolt . . . . .                                            | X              | 6                  |
| 3                                | NAS1149F0532P | Washer . . . . .                                          | X              | 13                 |
| 4                                | F593-1        | Support Assembly . . . . .                                | X              | 2                  |
| 5                                | NAS6605H9     | Bolt . . . . .                                            | X              | 2                  |
| 6                                | F046-1        | Frame Weldment (Ref, see Figure 53-7)                     |                |                    |
| 7                                | G200-2        | Cover (install using item 14; earlier aircraft) . . . . . | X              | 1                  |
| 8                                | G200-1        | Lug (optional) . . . . .                                  | X              | 1                  |
| 9                                | F593-3        | Plate . . . . .                                           | X              | 1                  |
| 10                               | F174-1        | Support Weldment (Ref, see Figure 53-7)                   |                |                    |
| 11                               | F145-1        | Engine (Ref, Rolls-Royce Model 250-C300/A1)               |                |                    |
| 12                               | NAS6605H4     | Bolt . . . . .                                            | X              | 2                  |
| 13                               | NAS6605H2     | Bolt . . . . .                                            | X              | 1                  |
| 14                               | B270-1        | Sealant . . . . .                                         | X              | A/R                |
| 15                               | NAS6605-3     | Bolt . . . . .                                            | X              | 2                  |
| NOTES                            |               |                                                           |                |                    |

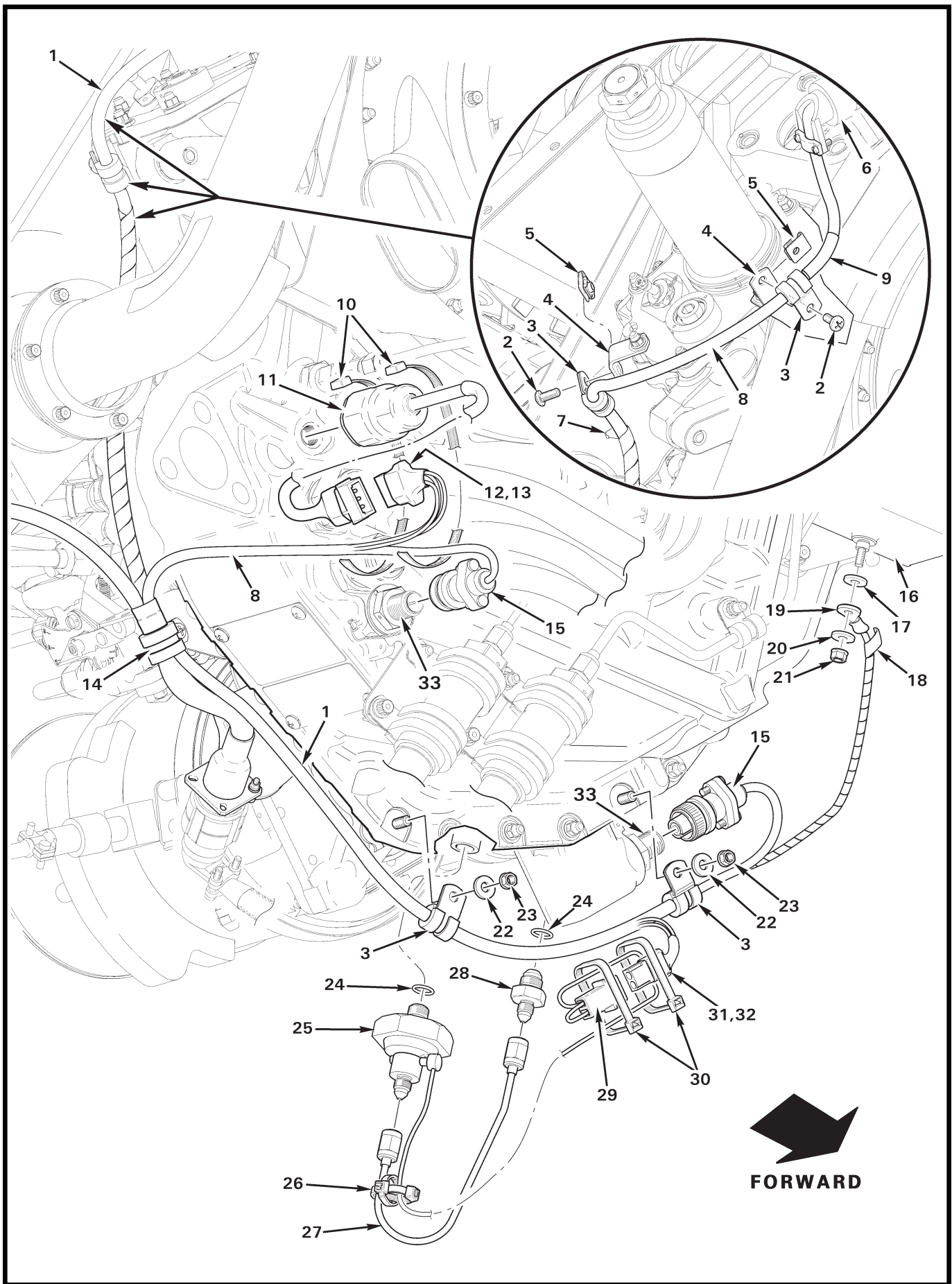


| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER     | DESCRIPTION                                                                                    | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|-----------------|------------------------------------------------------------------------------------------------|----------------|--------------------|
|                                  |                 | <b>ENGINE COMPONENTS – RIGHT SIDE</b>                                                          |                |                    |
| 71-3-1                           | —               | Harness* – MGT (Ref)                                                                           |                |                    |
| 2                                | B260-33         | Terminal (small) . . . . .                                                                     | X              | 1                  |
| 3                                | B158-4          | Heat Shrink (black). . . . .                                                                   | X              | A/R                |
| 4                                | B158-2          | Heat Shrink (small; 2 places) . . . . .                                                        | X              | A/R                |
| 5                                | B158-6          | Heat Shrink (large) . . . . .                                                                  | X              | A/R                |
| 6                                | —               | Nut* (small) . . . . .                                                                         | O              | 1                  |
| 7                                | B260-34         | Terminal (large) . . . . .                                                                     | X              | 1                  |
| 8                                | B158-604        | Heat Shrink (green). . . . .                                                                   | X              | A/R                |
| 9                                | —               | Nut* (large) . . . . .                                                                         | O              | 1                  |
| 10                               | B161-104        | Sleeving (orange; 3 places) . . . . .                                                          | X              | A/R                |
| 11                               | —               | Engine (Ref)                                                                                   |                |                    |
| 12                               | B266-104        | Sleeving . . . . .                                                                             | X              | A/R                |
| 13                               | —               | Spacer* . . . . .                                                                              | O              | 4                  |
| 14                               | —               | Nut* (Ref)                                                                                     |                |                    |
| 15                               | NAS1149F0332P   | Washer . . . . .                                                                               | X              | 4                  |
| 16                               | F577-3          | Bracket . . . . .                                                                              | X              | 1                  |
| 17                               | MS21042L08      | Nut . . . . .                                                                                  | X              | 1                  |
| 18                               | NAS1149FN832P   | Washer . . . . .                                                                               | X              | 1                  |
| 19                               | MS27039C0806    | Screw . . . . .                                                                                | X              | 1                  |
| 20                               | B158-812        | Heat Shrink (adhesive-lined) . . . . .                                                         | X              | A/R                |
| 21                               | MS21919WCH8     | Clamp . . . . .                                                                                | X              | 1                  |
| 22                               | B266-108        | Sleeving . . . . .                                                                             | X              | A/R                |
| 23                               | F049-012        | Harness Assembly – Engine (Incl items 2 thru 5, 7, 8, 10, 12,<br>20, 22, 24, and 27) . . . . . | X              | 1                  |
|                                  | F049-09**       | Harness Assembly – Engine (Ref, earlier aircraft; no longer<br>available.)                     |                |                    |
| 24                               | H129-4-J-WM250  | Shrink Boot . . . . .                                                                          | X              | 1                  |
| 25                               | MS21042L04      | Nut . . . . .                                                                                  | X              | 2                  |
| 26                               | NAS620-4        | Washer . . . . .                                                                               | X              | 2                  |
| 27                               | D38999/20FC35PN | Receptacle (Ref)                                                                               |                |                    |
| 28                               | F577-1          | Bracket Assembly . . . . .                                                                     | X              | 1                  |
| 29                               | NAS1352-04-6P   | Screw . . . . .                                                                                | X              | 2                  |
| 30                               | F859            | Harness Assembly – Electrical (Ref; cabin)                                                     |                |                    |

NOTES \* Supplied with engine.

\*\* To replace, order KI-223 Engine Electrical Harness Upgrade Kit Instructions revision C and subsequent, for helicopter S/Ns 0003 thru 0274. Order KI-223-2 for helicopter S/Ns 0275 thru 1021.





| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER    | DESCRIPTION                                                                            | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|----------------|----------------------------------------------------------------------------------------|----------------|--------------------|
|                                  |                | <b>ENGINE COMPONENTS – RIGHT SIDE</b>                                                  |                |                    |
| 71-5-1                           | F049-012*      | Wire Harness Assembly – Engine (Incl items 6 thru 9, 12, 13, 15, 30, and 31) . . . . . | X              | 1                  |
|                                  | F049-09*       | Wire Harness Assembly – Engine (Ref; earlier ships)                                    |                |                    |
| 2                                | MS27039C0806   | Screw . . . . .                                                                        | X              | 2                  |
| 3                                | MS21919WCH4    | Clamp . . . . .                                                                        | X              | 4                  |
| 4                                | MS9592-050*    | Bracket . . . . .                                                                      | O              | 2                  |
| 5                                | B162-2         | Clipnut . . . . .                                                                      | X              | 2                  |
| 6                                | MS3456W10SL-3S | Plug (Ref)                                                                             |                |                    |
| 7                                | B161-104       | Spirap . . . . .                                                                       | X              | A/R                |
| 8                                | B266-104       | Sleeving . . . . .                                                                     | X              | A/R                |
| 9                                | 7861K46        | Heat Shrink . . . . .                                                                  | X              | A/R                |
| 10                               | MS3367-7-9     | Ty-Rap . . . . .                                                                       | X              | 2                  |
| 11                               | D745-3**       | Switch Assembly (oil pressure; includes [1] NAS617-3 packing)                          | X              | 1                  |
| 12                               | B263-15        | Housing . . . . .                                                                      | X              | 1                  |
|                                  | B263-2         | Socket . . . . .                                                                       | X              | 3                  |
| 13                               | B158-8         | Heat Shrink . . . . .                                                                  | X              | A/R                |
| 14                               | MS21919WCH8    | Clamp (Ref, see Figure 71-3)                                                           |                |                    |
| 15                               | MS3106R8S-1S   | Plug . . . . .                                                                         | X              | 2                  |
| 16                               | —              | Ignition Exciter Box (Ref)                                                             |                |                    |
| 17                               | NAS1149E0363R  | Washer . . . . .                                                                       | X              | 1                  |
| 18                               | B161-102       | Spirap . . . . .                                                                       | X              | A/R                |
| 19                               | B260-4         | Terminal . . . . .                                                                     | X              | 1                  |
| 20                               | —              | Washer* . . . . .                                                                      | O              | 1                  |
| 21                               | —              | Nut* . . . . .                                                                         | O              | 1                  |
| 22                               | NAS1149C0363R* | Washer . . . . .                                                                       | O              | 2                  |
| 23                               | —              | Nut* . . . . .                                                                         | O              | 2                  |
| 24                               | MS29512-03     | Packing (o-ring) . . . . .                                                             | X              | 2                  |
| 25                               | G426-1         | Switch Assembly (differential pressure; includes items 24 & 29)                        | X              | 1                  |
| 26                               | MS3367-4-9     | Ty-Rap . . . . .                                                                       | X              | 2                  |
| 27                               | F741-1         | Line Assembly . . . . .                                                                | X              | 1                  |
| 28                               | AN919-0D       | Reducer . . . . .                                                                      | X              | 1                  |
| 29                               | B263-12        | Housing . . . . .                                                                      | X              | 1                  |
|                                  | B263-1         | Pin . . . . .                                                                          | X              | 1                  |
|                                  | B263-3         | Pin . . . . .                                                                          | X              | 1                  |
| 30                               | MS3367-5-9     | Ty-Rap . . . . .                                                                       | X              | 2                  |

NOTES \* See also Figure 71-7.

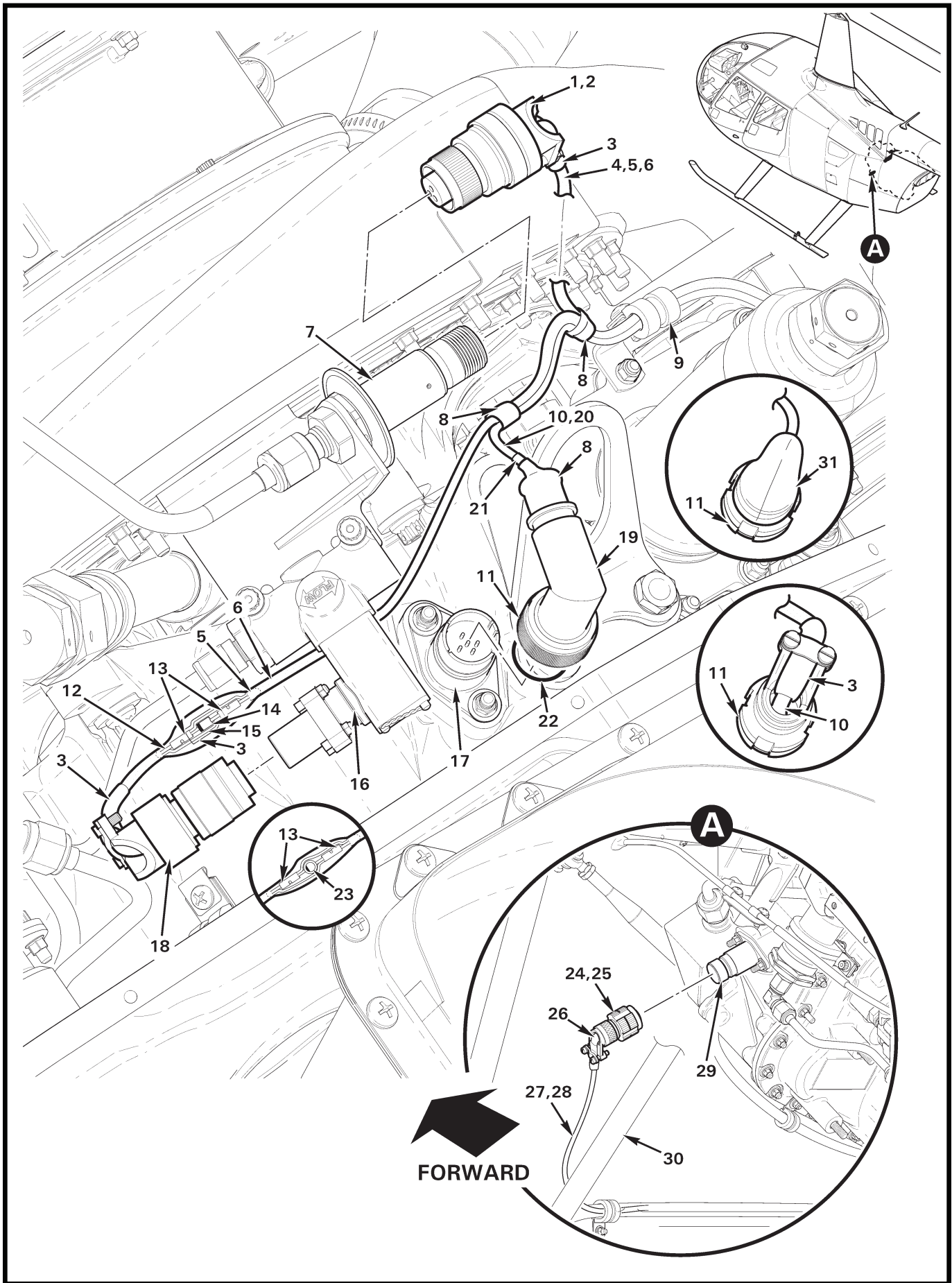
\*\* Rolls-Royce part number. See Rolls Royce RR300 Line Illustrated Parts Catalog.

Continues

| FIGURE<br>AND<br>INDEX<br>NUMBER                                                            | PART NUMBER | DESCRIPTION                             | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|---------------------------------------------------------------------------------------------|-------------|-----------------------------------------|----------------|--------------------|
|                                                                                             |             | ENGINE COMPONENTS – RIGHT SIDE (Cont'd) |                |                    |
| 71-5-31                                                                                     | B263-13     | Housing . . . . .                       | X              | 1                  |
|                                                                                             | B263-2      | Socket . . . . .                        | X              | 2                  |
| 32                                                                                          | B158-6      | Heat Shrink . . . . .                   | X              | A/R                |
| 33                                                                                          | 6871534*    | Oil Plug/Chip Detector . . . . .        | X              | 2                  |
| NOTES      * Rolls-Royce part number. See Rolls Royce RR300 Line Illustrated Parts Catalog. |             |                                         |                |                    |



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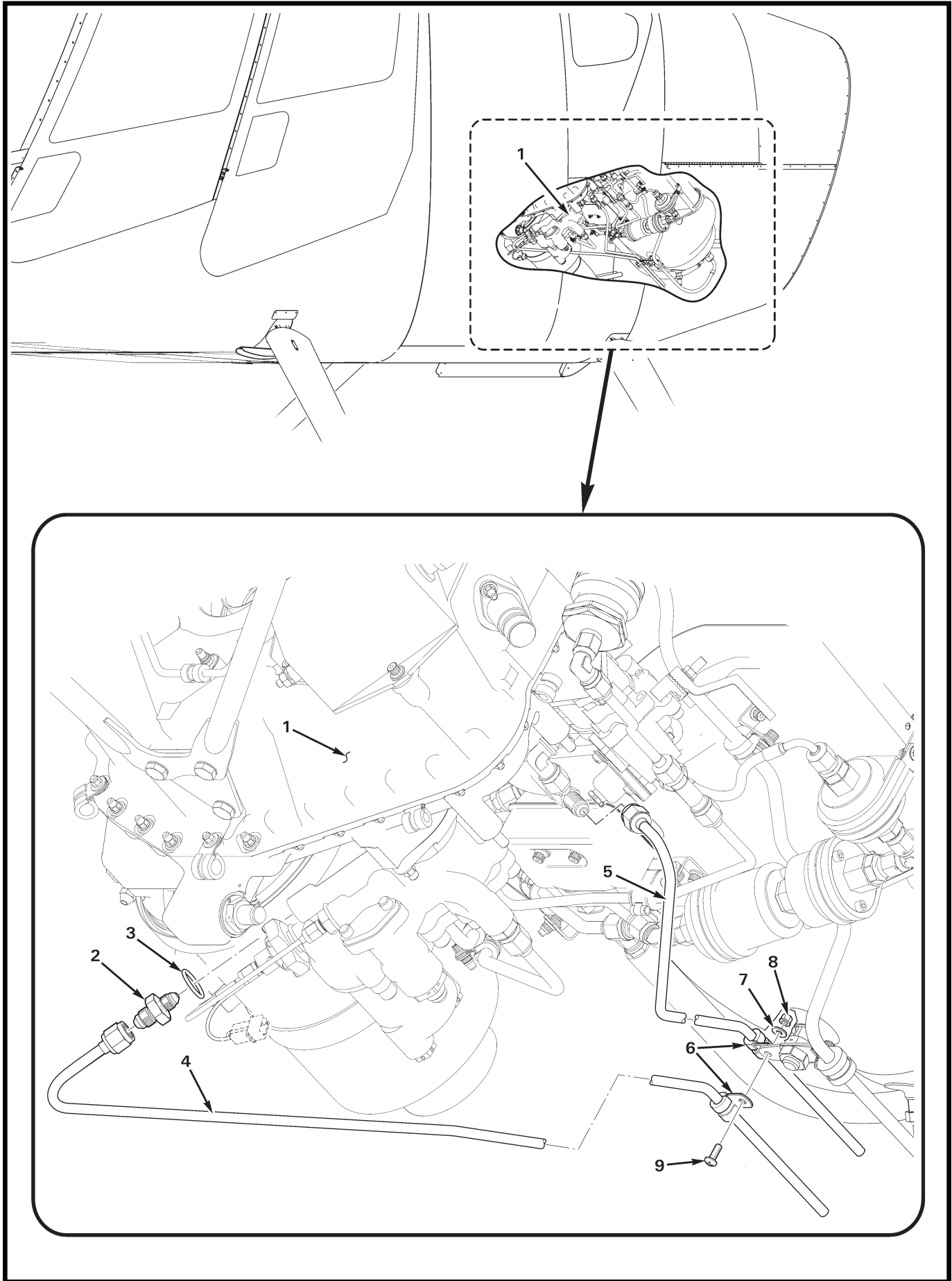
| FIGURE<br>AND<br>INDEX<br>NUMBER                                                                                                                                                                                                                                                      | PART NUMBER                 | DESCRIPTION                                                                     | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------|----------------|--------------------|
|                                                                                                                                                                                                                                                                                       |                             | ENGINE COMPONENTS – LEFT SIDE                                                   |                |                    |
| 71-7-1                                                                                                                                                                                                                                                                                | F049-012*                   | Harness Assembly (Incl items 2 thru 6, 8, 10 thru 15, and 18 thru 22) . . . . . | X              | 1                  |
|                                                                                                                                                                                                                                                                                       | F049-09*                    | Harness Assembly (Ref; earlier ships)                                           |                |                    |
|                                                                                                                                                                                                                                                                                       | F049-02*                    | Harness Assembly (Ref; earlier ships)                                           |                |                    |
| 2                                                                                                                                                                                                                                                                                     | MS3456W10SL-3S              | Plug . . . . .                                                                  | X              | 1                  |
| 3                                                                                                                                                                                                                                                                                     | B158-6                      | Heat Shrink . . . . .                                                           | X              | A/R                |
| 4                                                                                                                                                                                                                                                                                     | -1944,-1945                 | Wires (Ref)                                                                     |                |                    |
| 5                                                                                                                                                                                                                                                                                     | B158-2                      | Heat Shrink . . . . .                                                           | X              | A/R                |
| 6                                                                                                                                                                                                                                                                                     | B266-104                    | Sleeving . . . . .                                                              | X              | A/R                |
| 7                                                                                                                                                                                                                                                                                     | RR30000270**                | Anti-Ice Pressure Switch (Ref)                                                  |                |                    |
| 8                                                                                                                                                                                                                                                                                     | 202D121-25/225              | Boot . . . . .                                                                  | X              | A/R                |
|                                                                                                                                                                                                                                                                                       | 7861K46                     | Heat Shrink (earlier ships) . . . . .                                           | O              | A/R                |
| 9                                                                                                                                                                                                                                                                                     | MS21919WCH4                 | Clamp (Ref, see Figure 71-5)                                                    |                |                    |
| 10                                                                                                                                                                                                                                                                                    | -1938,-1939,-1940,<br>-1941 | Wires (Ref)                                                                     |                |                    |
| 11                                                                                                                                                                                                                                                                                    | D38999 / 26FB98SA           | Plug . . . . .                                                                  | X              | 1                  |
|                                                                                                                                                                                                                                                                                       | MS27488-20-2                | Sealing Plug (pin E and F) . . . . .                                            | X              | 2                  |
|                                                                                                                                                                                                                                                                                       | B158-2                      | Heat Shrink . . . . .                                                           | X              | A/R                |
| 12                                                                                                                                                                                                                                                                                    | -2037                       | Wire . . . . .                                                                  | X              | 1                  |
| 13                                                                                                                                                                                                                                                                                    | B261-2                      | Splice . . . . .                                                                | X              | 2                  |
| 14                                                                                                                                                                                                                                                                                    | D275-102                    | Diode (3 amp) . . . . .                                                         | X              | 1                  |
| 15                                                                                                                                                                                                                                                                                    | -2054                       | Wire (Ref)                                                                      |                |                    |
| 16                                                                                                                                                                                                                                                                                    | 23007827**                  | Anti-Ice Valve (Ref)                                                            |                |                    |
| 17                                                                                                                                                                                                                                                                                    | RR30000206**                | N1 Speed Sensor (Ref)                                                           |                |                    |
| 18                                                                                                                                                                                                                                                                                    | M83723 / 75R08036           | Plug . . . . .                                                                  | X              | 1                  |
| 19                                                                                                                                                                                                                                                                                    | M85049/90-11Z03             | Backshell . . . . .                                                             | X              | 1                  |
| 20                                                                                                                                                                                                                                                                                    | B158-704                    | Heat Shrink (black) . . . . .                                                   | X              | A/R                |
| 21                                                                                                                                                                                                                                                                                    | B158-806                    | Heat Shrink (black, adhesive) . . . . .                                         | X              | A/R                |
| 22                                                                                                                                                                                                                                                                                    | 1182N111                    | O-ring . . . . .                                                                | X              | 1                  |
| 23                                                                                                                                                                                                                                                                                    | A15A                        | Diode (15 amp; earlier ships) . . . . .                                         | X              | 1                  |
| 24                                                                                                                                                                                                                                                                                    | F859-03                     | Harness Assembly (Incl items 23, and 25 thru 28) . . . . .                      | X              | 1                  |
| 25                                                                                                                                                                                                                                                                                    | D38999 / 26FB98SN           | Plug . . . . .                                                                  | X              | 1                  |
| 26                                                                                                                                                                                                                                                                                    | 608036-1                    | Tape . . . . .                                                                  | X              | A/R                |
| 27                                                                                                                                                                                                                                                                                    | B266-104                    | Sleeving . . . . .                                                              | X              | A/R                |
| 28                                                                                                                                                                                                                                                                                    | -1934 thru 1937             | Wires (Ref)                                                                     |                |                    |
| <b>NOTES</b> * KI-223 Engine Electrical Harness Kit to replace -02, and -09, with -012 for helicopter S/Ns 0003 thru 0274. KI-223-2 to replace -09 with -012 for helicopter S/Ns 0275 thru 1021.<br>** Rolls-Royce part number. See Rolls Royce RR300 Line Illustrated Parts Catalog. |                             |                                                                                 |                |                    |

Continues

| FIGURE<br>AND<br>INDEX<br>NUMBER                                                       | PART NUMBER    | DESCRIPTION                            | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------------------------------------------------------------|----------------|----------------------------------------|----------------|--------------------|
|                                                                                        |                | ENGINE COMPONENTS – LEFT SIDE (Cont’d) |                |                    |
| 71-7-29                                                                                | 23054163*      | N2 Sensor (Ref)                        |                |                    |
| 30                                                                                     | F046-1         | Frame Weldment (Ref)                   |                |                    |
| 31                                                                                     | 222A121-25/225 | Boot (earlier ships). . . . .          | X              | 1                  |
| NOTES * Rolls-Royce part number. See Rolls Royce RR300 Line Illustrated Parts Catalog. |                |                                        |                |                    |

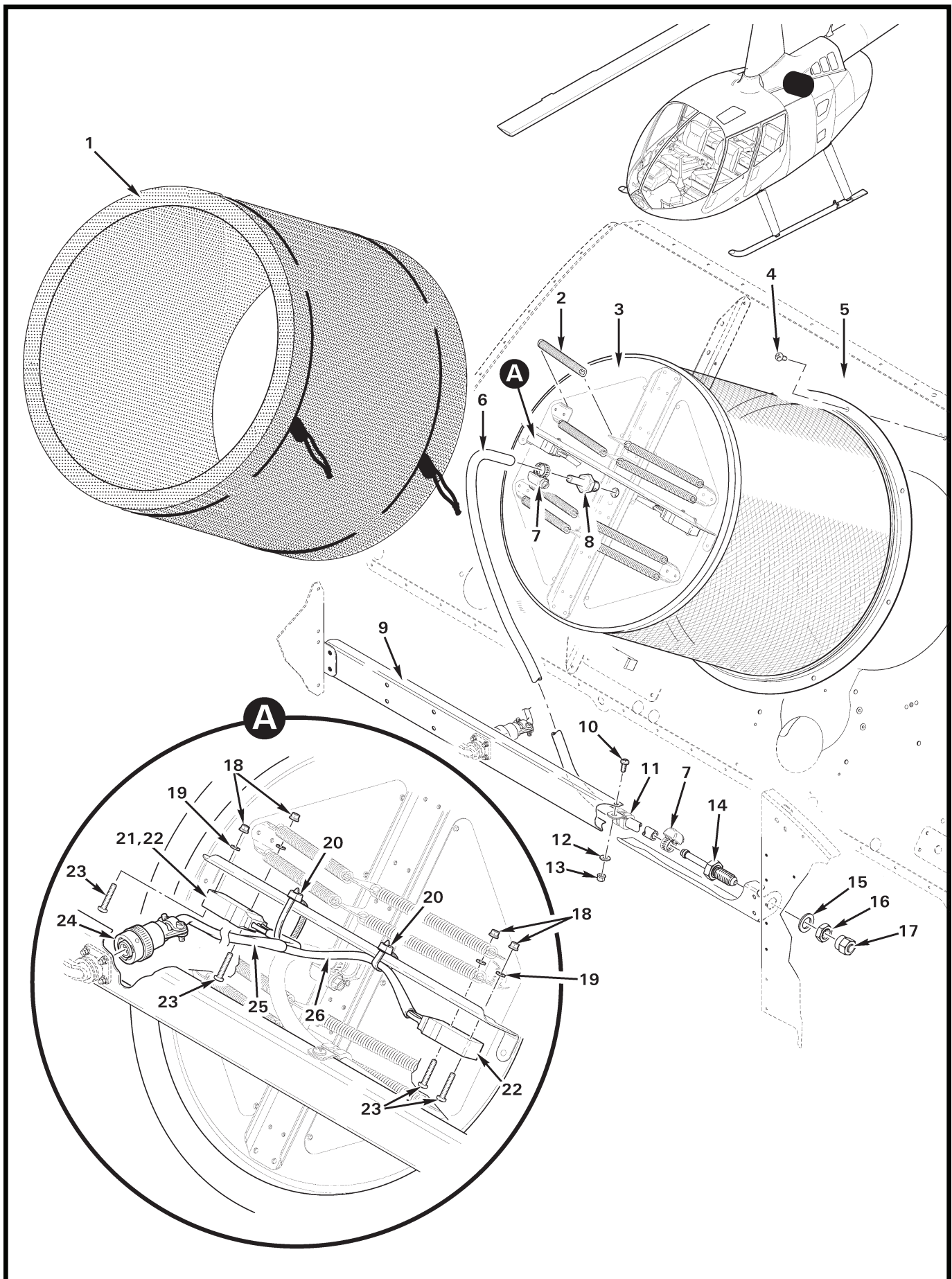
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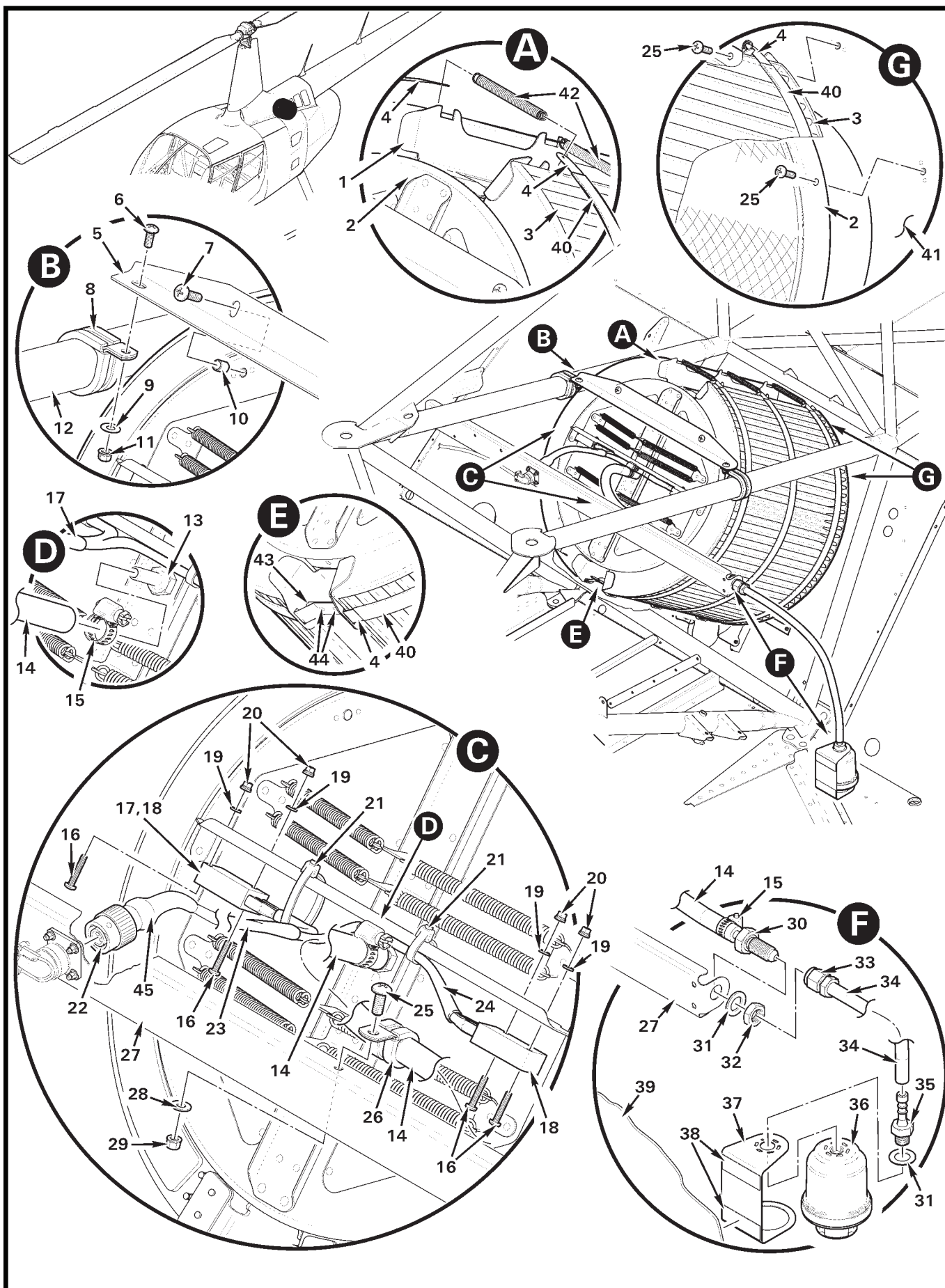


| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER     | DESCRIPTION             | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|-----------------|-------------------------|----------------|--------------------|
| 71-7D-1                          | F145-1          | Engine (Ref)            |                |                    |
|                                  | 2 AN919-2D      | Reducer . . . . .       | X              | 1                  |
|                                  | 3 MS29512-3     | Packing . . . . .       | X              | 1                  |
|                                  | 4 F727-1        | Line Assembly . . . . . | X              | 1                  |
|                                  | 5 F727-2        | Line Assembly . . . . . | X              | 1                  |
|                                  | 6 MS21919WCH4   | Clamp . . . . .         | X              | 2                  |
|                                  | 7 NAS1149FN832P | Washer . . . . .        | X              | 1                  |
|                                  | 8 MS21042L08    | Nut . . . . .           | X              | 1                  |
|                                  | 9 MS27039C0808  | Screw . . . . .         | X              | 1                  |
|                                  |                 |                         |                |                    |
| NOTES                            |                 |                         |                |                    |





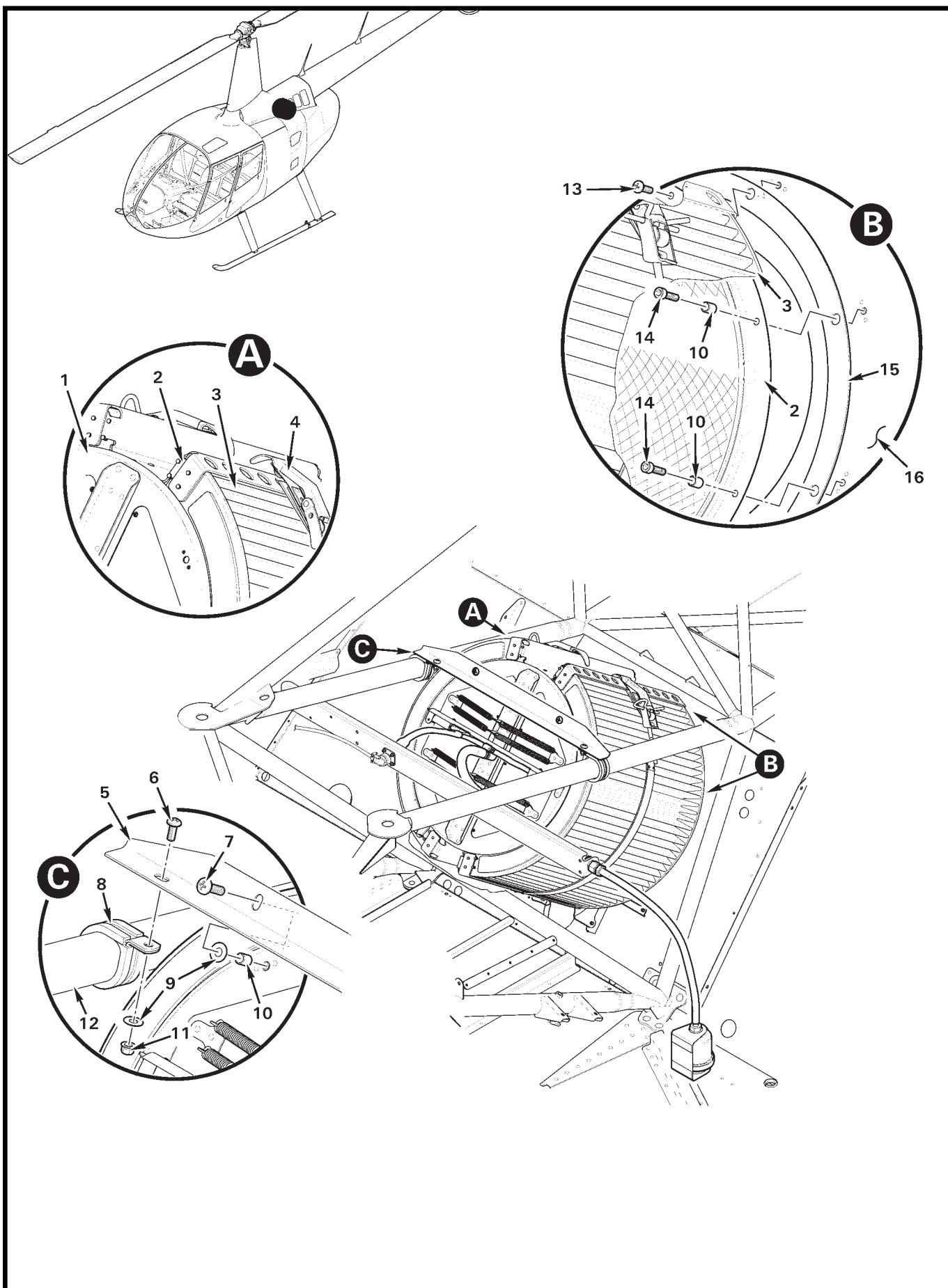
| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                                                                       | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|---------------|-----------------------------------------------------------------------------------|----------------|--------------------|
|                                  |               | ENGINE AIR INDUCTION – CAGE AND FILTER<br>ASSEMBLIES                              |                |                    |
| 71-9-1                           | F771-1        | Air Filter Assembly . . . . .                                                     | X              | 1                  |
| 2                                | B774-8        | Spring . . . . .                                                                  | X              | 8                  |
| 3                                | G057-1        | Cage Assembly (Incl items 2, 18 thru 21, and 23) . . . . .                        | X              | 1                  |
| 4                                | MS27039C0806  | Screw . . . . .                                                                   | X              | 7                  |
| 5                                | F234-1        | Firewall (Ref)                                                                    |                |                    |
| 6                                | A729-42       | Tube . . . . .                                                                    | X              | 1                  |
| 7                                | B277-4        | Clamp . . . . .                                                                   | X              | 2                  |
| 8                                | G738-1        | Nozzle . . . . .                                                                  | X              | 1                  |
| 9                                | G258-4        | Strap (Ref)                                                                       |                |                    |
| 10                               | MS27039C0807  | Screw . . . . .                                                                   | X              | 1                  |
| 11                               | MS21919WDG6   | Clamp . . . . .                                                                   | X              | 1                  |
| 12                               | NAS1149FN816P | Washer . . . . .                                                                  | X              | 1                  |
| 13                               | MS21042L08    | Nut . . . . .                                                                     | X              | 1                  |
| 14                               | AS5180D04     | Fitting . . . . .                                                                 | X              | 1                  |
| 15                               | NAS1149F0763P | Washer . . . . .                                                                  | X              | 1                  |
| 16                               | AN316-7R      | Nut . . . . .                                                                     | X              | 1                  |
| 17                               | AN929-4       | Cap . . . . .                                                                     | X              | 1                  |
| 18                               | MS21042L04    | Nut . . . . .                                                                     | X              | 4                  |
| 19                               | NAS620-4      | Washer . . . . .                                                                  | X              | 4                  |
| 20                               | MS3367-4-9    | Ty-Rap . . . . .                                                                  | X              | 2                  |
| 21                               | F049-08       | Harness Assembly – Air Filter Switch (Incl items 22, and 24<br>thru 26) . . . . . | X              | 1                  |
| 22                               | D2VW-5-1MS    | Switch . . . . .                                                                  | X              | 2                  |
| 23                               | MS35206-219   | Screw . . . . .                                                                   | X              | 4                  |
| 24                               | MS3116E8-4P   | Plug . . . . .                                                                    | X              | 1                  |
|                                  | B158-2        | Heat Shrink (around wires; not shown) . . . . .                                   | X              | A/R                |
| 25                               | B158-4        | Heat Shrink . . . . .                                                             | X              | A/R                |
| 26                               | B158-3        | Heat Shrink . . . . .                                                             | X              | A/R                |
| NOTES                            |               |                                                                                   |                |                    |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                                                                                   | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|---------------|-----------------------------------------------------------------------------------------------|----------------|--------------------|
|                                  |               | <b>ENGINE AIR INDUCTION – INLET BARRIER FILTER</b>                                            |                |                    |
| 71-11-1                          | G058-2        | Cage Assembly (Incl items 2 thru 9, and 10 [2]) . . . . .                                     | X              | 1                  |
| 2                                | G057-1        | Cage Assembly (includes items 17, 19 thru 21, 40, 43, and 44; see also Figure 71-9) . . . . . | X              | 1                  |
| 3                                | 146150-101    | Filter Assembly . . . . .                                                                     | X              | 2                  |
| 4                                | 146160-101    | Strap Assembly . . . . .                                                                      | X              | 2                  |
| 5                                | G735-7        | Angle . . . . .                                                                               | X              | 1                  |
| 6                                | MS27039C1-07  | Screw . . . . .                                                                               | X              | 2                  |
| 7                                | MS27039C1-10  | Screw . . . . .                                                                               | X              | 2                  |
| 8                                | MS21919WDG18  | Clamp . . . . .                                                                               | X              | 2                  |
| 9                                | NAS1149F0316P | Washer . . . . .                                                                              | X              | 4                  |
| 10                               | C130-26       | Spacer . . . . .                                                                              | X              | 8                  |
| 11                               | D210-3        | Nut . . . . .                                                                                 | X              | 2                  |
| 12                               | F020-1        | Upper Frame Assembly (Ref)                                                                    |                |                    |
| 13                               | G738-1        | Nozzle . . . . .                                                                              | X              | 1                  |
| 14                               | A729-42       | Tube . . . . .                                                                                | X              | 1                  |
| 15                               | B277-4        | Clamp . . . . .                                                                               | X              | 2                  |
| 16                               | MS35206-219   | Screw . . . . .                                                                               | X              | 4                  |
| 17                               | F049-08       | Harness Assembly – Air Filter Switch (Incl items 18, 22 thru 25, and 45) . . . . .            | X              | 1                  |
| 18                               | D2VW-5-1MS    | Switch . . . . .                                                                              | X              | 2                  |
| 19                               | NAS620-4      | Washer . . . . .                                                                              | X              | 4                  |
| 20                               | MS21042L04    | Nut . . . . .                                                                                 | X              | 4                  |
| 21                               | MS3367-4-9    | Ty-Rap . . . . .                                                                              | X              | 2                  |
| 22                               | MS3116E8-4P   | Plug . . . . .                                                                                | X              | 1                  |
| 23                               | B158-4        | Heat Shrink . . . . .                                                                         | X              | A/R                |
| 24                               | B158-3        | Heat Shrink . . . . .                                                                         | X              | A/R                |
| 25                               | MS27039C0806  | Screw . . . . .                                                                               | X              | 2                  |
| 26                               | MS21919WDG8   | Clamp . . . . .                                                                               | X              | 1                  |
| 27                               | G258-4        | Strap (Ref)                                                                                   |                |                    |
| 28                               | NAS1149FN816P | Washer . . . . .                                                                              | X              | 1                  |
| 29                               | MS21042L08    | Nut . . . . .                                                                                 | X              | 1                  |
| 30                               | AS5180D04     | Fitting . . . . .                                                                             | X              | 1                  |
| 31                               | NAS1149F0763P | Washer . . . . .                                                                              | X              | 2                  |
| 32                               | AN316-7R      | Nut . . . . .                                                                                 | X              | 1                  |
| 33                               | A457-17       | Fitting . . . . .                                                                             | X              | 1                  |
| NOTES                            |               |                                                                                               |                |                    |
| Continues                        |               |                                                                                               |                |                    |

| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                                          | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|-------------|------------------------------------------------------|----------------|--------------------|
|                                  |             | ENGINE AIR INDUCTION – INLET BARRIER FILTER (Cont'd) |                |                    |
| 71-11-34                         | A729-78     | Tube . . . . .                                       | X              | 1                  |
| 35                               | A457-16     | Fitting . . . . .                                    | X              | 1                  |
| 36                               | 100460-201  | Gage . . . . .                                       | X              | 1                  |
| 37                               | G735-1      | Bracket Assembly (Incl Item 38) . . . . .            | X              | 1                  |
| 38                               | A701-7      | Tape . . . . .                                       | X              | 2                  |
| 39                               | G235-1      | Bulkhead (Ref)                                       |                |                    |
| 40                               | B158-6      | Heat Shrink . . . . .                                | X              | 6                  |
| 41                               | F234-1      | Firewall (Ref)                                       |                |                    |
| 42                               | B774-10     | Spring . . . . .                                     | X              | 3                  |
| 43                               | G735-9      | Stop . . . . .                                       | X              | 3                  |
| 44                               | MS20470AD3  | Rivet (3 locations) . . . . .                        | X              | 6                  |
| 45                               | B158-2      | Heat Shrink . . . . .                                | X              | A/R                |
| NOTES                            |             |                                                      |                |                    |

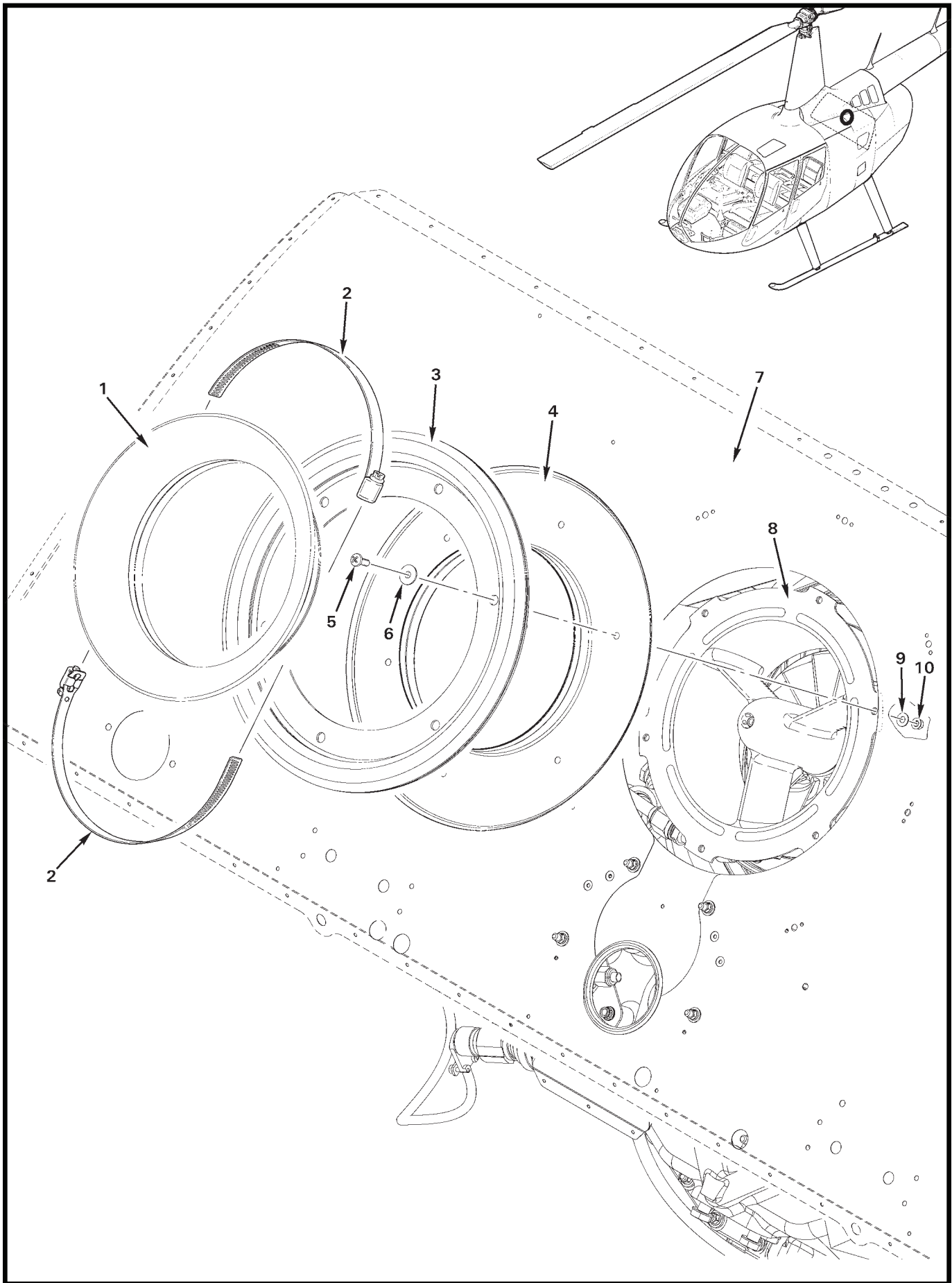
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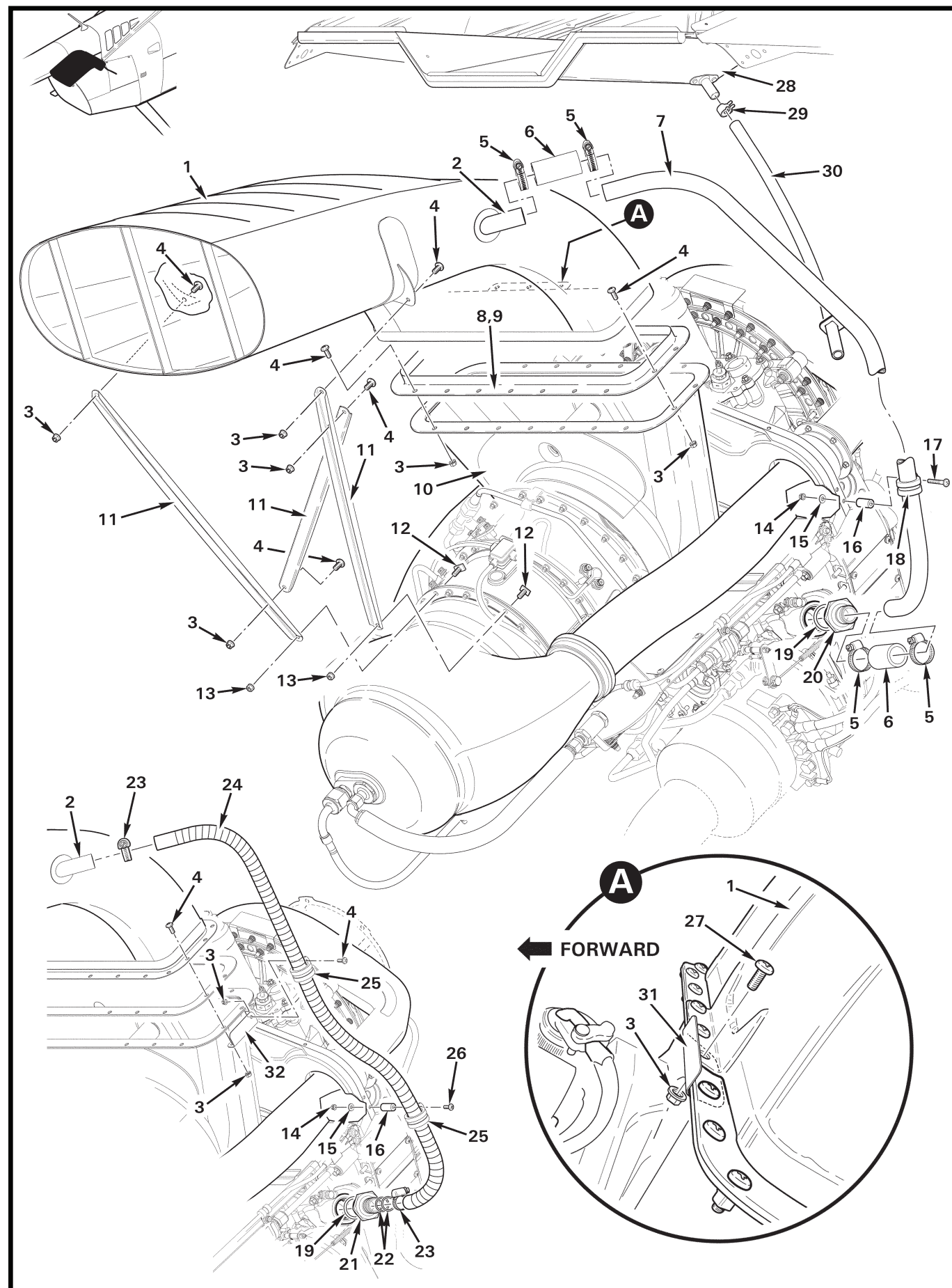


| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER    | DESCRIPTION                                                                                      | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|----------------|--------------------------------------------------------------------------------------------------|----------------|--------------------|
|                                  |                | ENGINE AIR INDUCTION – INLET BARRIER FILTER<br>(EARLIER SHIPS)                                   |                |                    |
| 71-15-1                          | G058-1         | Cage Assembly (Incl items 2 thru 9, and 10 [2]) . . . . .                                        | X              | 1                  |
| 2                                | G057-1         | Cage Assembly (includes items 17, and 19 thru 21; see also<br>Figures 71-9, and 71-11) . . . . . | X              | 1                  |
| 3                                | 146150-101     | Filter Assembly . . . . .                                                                        | X              | 2                  |
| 4                                | 146160-101     | Strap Assembly . . . . .                                                                         | X              | 2                  |
| 5                                | 146171-201     | Stiffener . . . . .                                                                              | X              | 1                  |
| 6                                | MS27039C1-07   | Screw . . . . .                                                                                  | X              | 2                  |
| 7                                | MS27039C1-10   | Screw . . . . .                                                                                  | X              | 2                  |
| 8                                | MS21919WDG18   | Clamp . . . . .                                                                                  | X              | 2                  |
| 9                                | NAS1149F0316P  | Washer . . . . .                                                                                 | X              | 4                  |
| 10                               | 146121-201     | Spacer . . . . .                                                                                 | X              | 8                  |
| 11                               | D210-3         | Nut . . . . .                                                                                    | X              | 2                  |
| 12                               | F020-1         | Upper Frame Assembly (Ref)                                                                       |                |                    |
| 13                               | MS27039C0806   | Screw . . . . .                                                                                  | X              | 1                  |
| 14                               | NAS1352-08-12P | Screw . . . . .                                                                                  | X              | 6                  |
| 15                               | 165201-201     | Seal . . . . .                                                                                   | X              | 1                  |
| 16                               | F234-1         | Firewall (Ref)                                                                                   |                |                    |
| NOTES                            |                |                                                                                                  |                |                    |

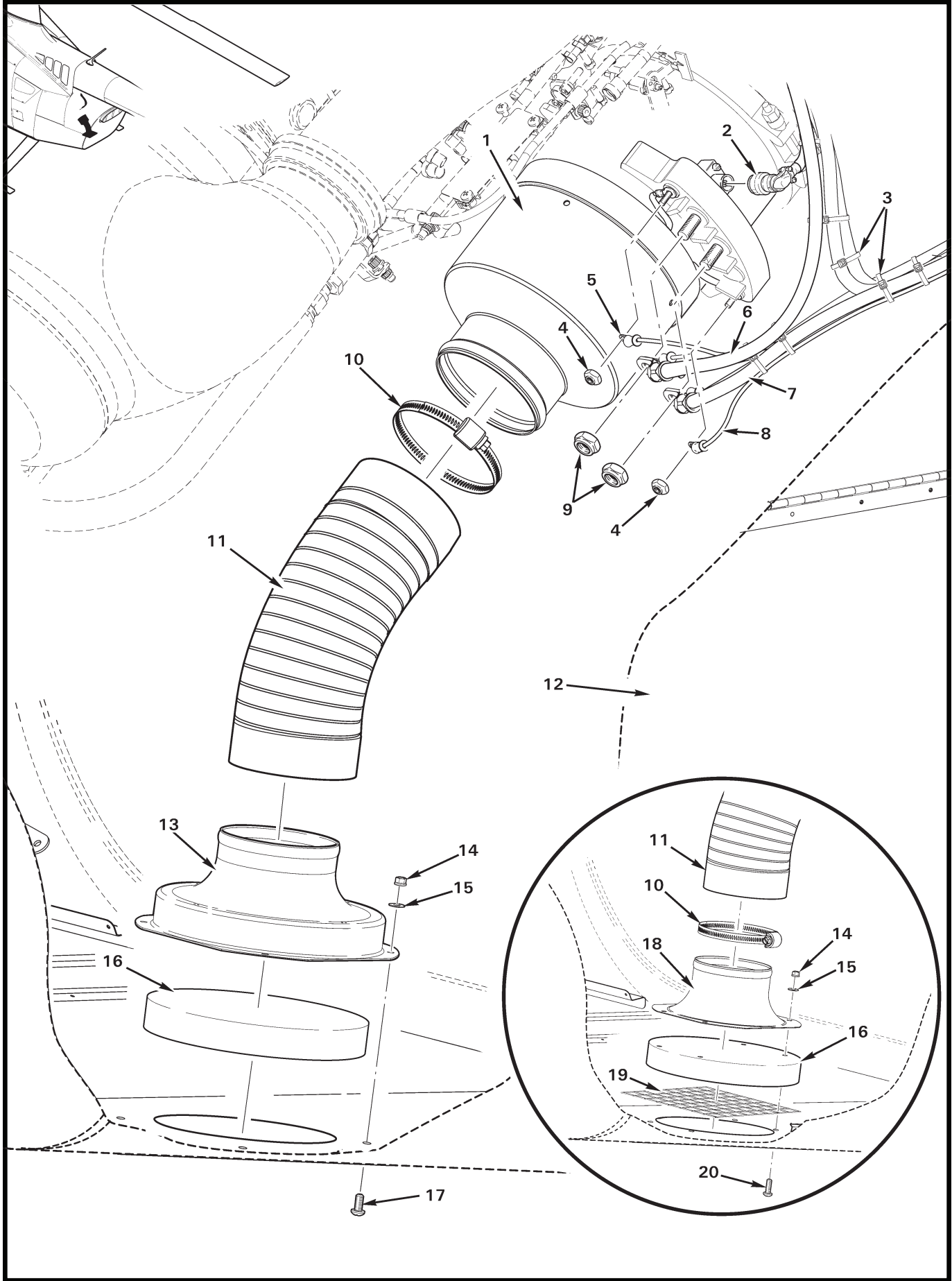




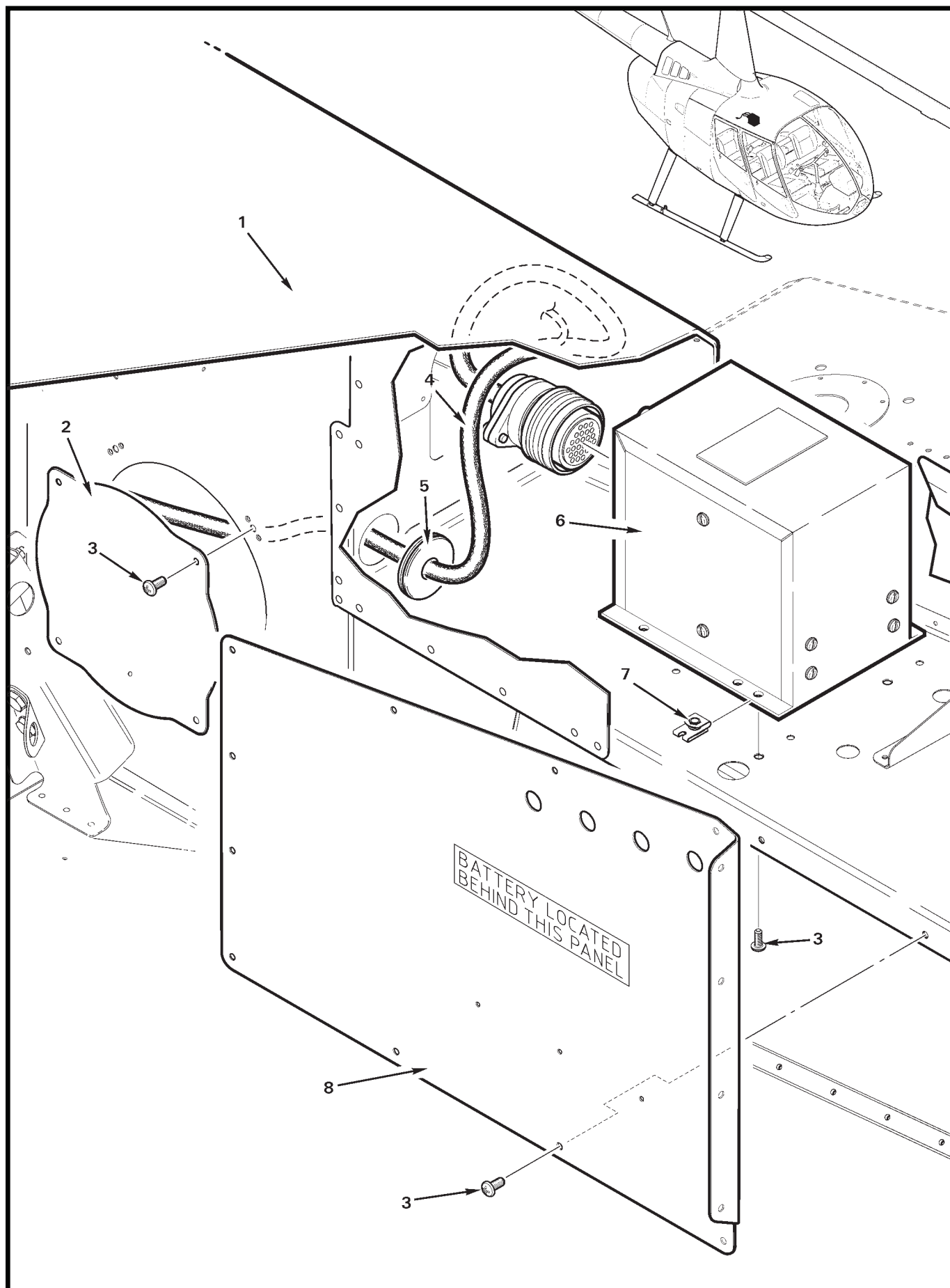
| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|---------------|----------------------------|----------------|--------------------|
|                                  |               | BELLMOUTH INSTALLATION     |                |                    |
| 71-17-1                          | F579-1        | Bellmouth . . . . .        | X              | 1                  |
| 2                                | B277-36       | Clamp . . . . .            | X              | 2                  |
| 3                                | F597-1        | Seal . . . . .             | X              | 1                  |
| 4                                | F580-1        | Inlet . . . . .            | X              | 1                  |
| 5                                | MS27039C0807  | Screw . . . . .            | X              | 6                  |
| 6                                | F453-5        | Retainer . . . . .         | X              | 6                  |
| 7                                | F234-1        | Firewall (Ref)             |                |                    |
| 8                                | —             | Engine Front Support (Ref) |                |                    |
| 9                                | NAS1149FN832P | Washer . . . . .           | X              | 6                  |
| 10                               | MS21042L08    | Nut . . . . .              | X              | 6                  |
| NOTES                            |               |                            |                |                    |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER    | DESCRIPTION                                                        | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|----------------|--------------------------------------------------------------------|----------------|--------------------|
|                                  |                | EXHAUST WELDMENT AND STRUT INSTALLATION                            |                |                    |
| 71-19-1                          | F169-1         | Exhaust Weldment (includes item 2) . . . . .                       | X              | 1                  |
| 2                                | F169-9         | Vent (Ref)                                                         |                |                    |
| 3                                | D210-3         | Nut . . . . .                                                      | X              | 24                 |
| 4                                | MS27039C1-06   | Screw . . . . .                                                    | X              | 24                 |
| 5                                | B277-12        | Clamp (install with screw on top within 30 degrees). . . . .       | X              | 4                  |
| 6                                | A729-68        | Tube . . . . .                                                     | X              | 2                  |
| 7                                | G727-3         | Tube (required if item 30 is installed; refer to KI-258) . . . . . | X              | 1                  |
|                                  | G727-1 *       | Tube (no provision for firewall drain tube) . . . . .              | X              | 1                  |
| 8                                | F169-2         | Base (install using item 9) . . . . .                              | X              | 1                  |
| 9                                | 7020-3         | Putty . . . . .                                                    | X              | A/R                |
| 10                               | —              | Engine Exhaust Collector (Ref)                                     |                |                    |
| 11                               | F173-1         | Strut . . . . .                                                    | X              | 3                  |
| 12                               | —              | Tee Bolt (Ref, supplied with engine)                               |                |                    |
| 13                               | —              | Nut (Ref, supplied with engine)                                    |                |                    |
| 14                               | MS21042L08     | Nut . . . . .                                                      | X              | 1                  |
| 15                               | NAS1149FN832P  | Washer . . . . .                                                   | X              | 1                  |
| 16                               | C130-51        | Spacer . . . . .                                                   | X              | 1                  |
| 17                               | MS27039C0816   | Screw . . . . .                                                    | X              | 1                  |
| 18                               | MS21919WCH12   | Clamp . . . . .                                                    | X              | 2                  |
| 19                               | NAS617-12      | Packing (o-ring) . . . . .                                         | X              | 1                  |
| 20                               | F170-2         | Fitting . . . . .                                                  | X              | 1                  |
| 21                               | F170-1         | Fitting (Ref, superseded by item 20) . . . . .                     | O              | 1                  |
| 22                               | A215-016       | O-Ring . . . . .                                                   | X              | 2                  |
| 23                               | B277-8 *       | Clamp (install with screw on top within 30 degrees). . . . .       | X              | 2                  |
| 24                               | A785-36 *      | Hose (superseded by item 7) . . . . .                              | O              | 1                  |
| 25                               | MS21919WCH14 * | Clamp . . . . .                                                    | X              | 2                  |
| 26                               | MS27039C0816 * | Screw (alternate part no. AN525-10R16) . . . . .                   | X              | 1                  |
| 27                               | MS27039C1-07   | Screw . . . . .                                                    | X              | 3                  |
| 28                               | G929-1         | Cover (Ref)                                                        |                |                    |
| 29                               | D277-8         | Clamp . . . . .                                                    | X              | 1                  |
| 30                               | A729-80        | Tube . . . . .                                                     | X              | 1                  |
| 31                               | F173-2         | Shield . . . . .                                                   | X              | 1                  |
| 32                               | F577-5 *       | Bracket . . . . .                                                  | X              | 1                  |
|                                  |                | * * *                                                              |                |                    |
| 33                               | KI-258         | R66-series Firewall Drain Installation Kit (Incl items 29 and 30)  | X              | A/R                |
| NOTES * Earlier R66s.            |                |                                                                    |                |                    |

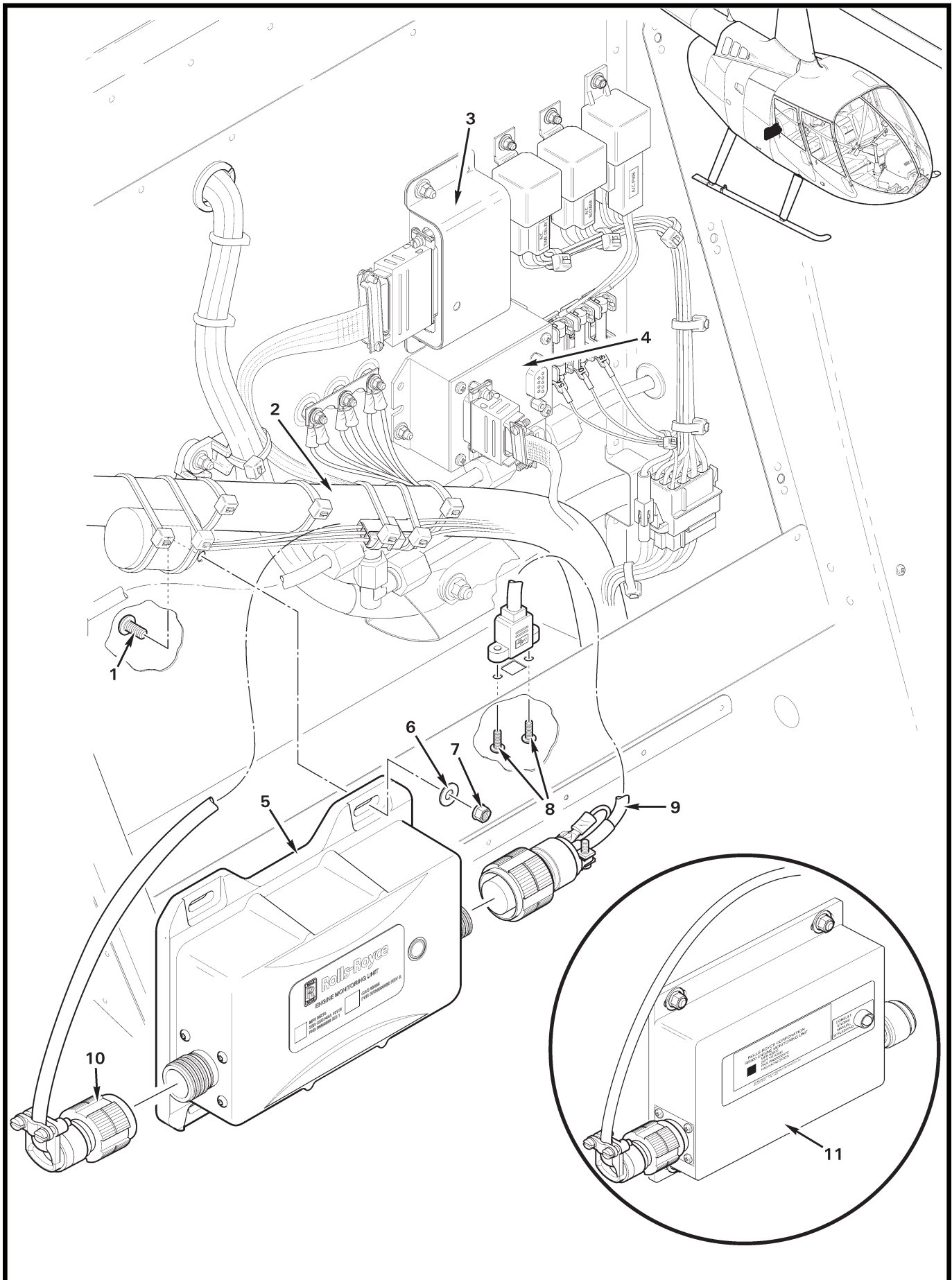


| FIGURE<br>AND<br>INDEX<br>NUMBER                                          | PART NUMBER     | DESCRIPTION                                           | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|---------------------------------------------------------------------------|-----------------|-------------------------------------------------------|----------------|--------------------|
|                                                                           |                 | STARTER-GENERATOR INSTALLATION                        |                |                    |
| 71-21-1                                                                   | —               | Starter-Generator (Ref; supplied with engine)         |                |                    |
| 2                                                                         | MS3116J8-3S *   | Plug (wire no. F049-1989 and -1990) . . . . .         | X              | 1                  |
| 3                                                                         | MS3367-5-9      | Ty-Rap . . . . .                                      | X              | A/R                |
| 4                                                                         | —               | Nut (small, supplied with item 1) . . . . .           | O              | 2                  |
| 5                                                                         | F049-1985       | Wire (Ref)                                            |                |                    |
| 6                                                                         | A780-51         | Cable Assembly (wire no. 1969) . . . . .              | X              | 1                  |
| 7                                                                         | A780-50         | Cable Assembly (wire no. 1982) . . . . .              | X              | 1                  |
| 8                                                                         | F049-1988       | Wire (Ref)                                            |                |                    |
| 9                                                                         | —               | Nut (large, supplied with item 1) . . . . .           | O              | 2                  |
| 10                                                                        | B277-48         | Clamp . . . . .                                       | X              | 1                  |
| 11                                                                        | A785-38         | Hose . . . . .                                        | X              | 1                  |
| 12                                                                        | G040-1          | Cowling Assembly (Ref; aft)                           |                |                    |
| 13                                                                        | C579-4          | Inlet (2.5 in. tall) . . . . .                        | X              | 1                  |
| 14                                                                        | MS21042L08      | Nut . . . . .                                         | X              | 4                  |
| 15                                                                        | NAS1149FN816P   | Washer . . . . .                                      | X              | 4                  |
| 16                                                                        | F771-4          | Foam . . . . .                                        | X              | 1                  |
| 17                                                                        | MS27039C0806    | Screw . . . . .                                       | X              | 4                  |
| 18                                                                        | C579-2 **       | Inlet (2 in. tall, installed using item 10) . . . . . | X              | 1                  |
| 19                                                                        | A640-2 **       | Screen . . . . .                                      | X              | 1                  |
| 20                                                                        | MS27039C0808 ** | Screw . . . . .                                       | X              | 4                  |
| NOTES      * Included with F049-013 harness assembly.<br>** Earlier R66s. |                 |                                                       |                |                    |

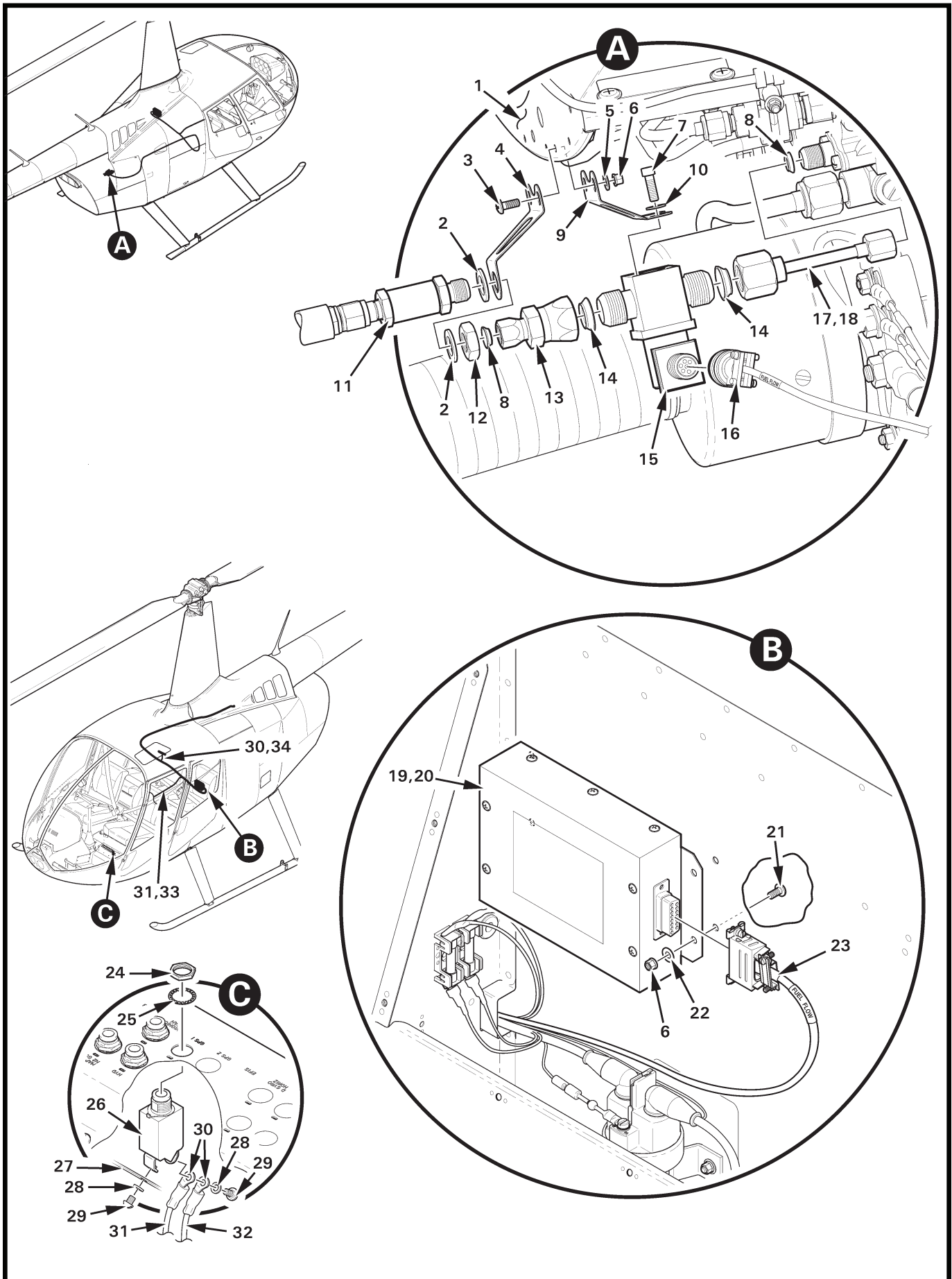


| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER  | DESCRIPTION                                                     | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|--------------|-----------------------------------------------------------------|----------------|--------------------|
|                                  |              | GENERATOR CONTROL UNIT INSTALLATION                             |                |                    |
| 71-23-1                          | G252-1       | Panel (Ref; baggage compartment)                                |                |                    |
| 2                                | G248-2       | Cover (access) . . . . .                                        | X              | 1                  |
| 3                                | MS27039C0806 | Screw . . . . .                                                 | X              | 22                 |
| 4                                | F049-013     | Wire Harness Assembly (Incl item 5) . . . . .                   | X              | 1                  |
|                                  | F049-010     | Wire Harness Assembly (Incl item 5; earlier aircraft) . . . . . | O              | 1                  |
|                                  | F049-03      | Wire Harness Assembly (Incl item 5; earlier aircraft) . . . . . | O              | 1                  |
| 5                                | MS35489-15   | Grommet . . . . .                                               | X              | 1                  |
| 6                                | RR30000466   | Generator Control Unit (supplied with engine) . . . . .         | O              | 1                  |
| 7                                | B162-3       | Clipnut . . . . .                                               | X              | 4                  |
| 8                                | G248-1       | Cover Assembly (access) . . . . .                               | X              | 1                  |
| NOTES                            |              |                                                                 |                |                    |





| FIGURE<br>AND<br>INDEX<br>NUMBER                                                                                                                                        | PART NUMBER   | DESCRIPTION                                                      | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------------------------------------------------|----------------|--------------------|
|                                                                                                                                                                         |               | ENGINE MONITORING UNIT INSTALLATION                              |                |                    |
| 71-25-1                                                                                                                                                                 | MS27039C1-07  | Screw . . . . .                                                  | X              | 4                  |
| 2                                                                                                                                                                       | F859-01       | Wire Harness Assembly (Ref; cabin)                               |                |                    |
| 3                                                                                                                                                                       | F695-4        | Tester Assembly (Ref)                                            |                |                    |
| 4                                                                                                                                                                       | B240-3        | Blind Encoder (Ref)                                              |                |                    |
| 5                                                                                                                                                                       | RR30000470 *  | Engine Monitoring Unit (supplied with engine) . . . . .          | O              | 1                  |
| 6                                                                                                                                                                       | NAS1149F0332P | Washer . . . . .                                                 | X              | 4                  |
| 7                                                                                                                                                                       | MS21042L3     | Nut . . . . .                                                    | X              | 4                  |
| 8                                                                                                                                                                       | —             | Screw . . . . .                                                  | O              | 2                  |
| 9                                                                                                                                                                       | F049-07 **    | Harness Assembly (USB B-female; includes item 8) . . . . .       | X              | 1                  |
| 10                                                                                                                                                                      | —             | Connector (Ref; "EMU" plug)                                      |                |                    |
| 11                                                                                                                                                                      | EX183707 *    | Engine Monitoring Unit (supplied with engine; earlier ships) . . | O              | 1                  |
| NOTES    * Rolls-Royce part number. See RR300 Line Illustrated Parts Catalog for latest EMU information.<br>** USB 2.0 cable, A-male to B-male, required to access EMU. |               |                                                                  |                |                    |



| FIGURE<br>AND<br>INDEX<br>NUMBER                                                                                                                                                                                       | PART NUMBER    | DESCRIPTION                                                                                 | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------|----------------|--------------------|
|                                                                                                                                                                                                                        |                | G090 FUEL FLOW METER INSTALLATION*                                                          |                |                    |
| 71-27-1                                                                                                                                                                                                                | F145-1         | Engine (Ref, Rolls Royce Model 250-C300/A1)                                                 |                |                    |
| 2                                                                                                                                                                                                                      | —              | Washer – Existing (locate as required for best fit) . . . . .                               | O              | 2                  |
| 3                                                                                                                                                                                                                      | MS27039C0806   | Screw . . . . .                                                                             | X              | 2                  |
| 4                                                                                                                                                                                                                      | G155-1         | Bracket (aft) . . . . .                                                                     | X              | 1                  |
| 5                                                                                                                                                                                                                      | NAS1149FN832P  | Washer . . . . .                                                                            | X              | 2                  |
| 6                                                                                                                                                                                                                      | MS21042L08     | Nut . . . . .                                                                               | X              | 6                  |
| 7                                                                                                                                                                                                                      | NAS1351-3LE6P  | Screw . . . . .                                                                             | X              | 2                  |
| 8                                                                                                                                                                                                                      | AS4824N04      | Seal (one time use, discard previous) . . . . .                                             | O              | 2                  |
| 9                                                                                                                                                                                                                      | G155-2         | Bracket (forward) . . . . .                                                                 | X              | 1                  |
| 10                                                                                                                                                                                                                     | NAS1149F0332P  | Washer . . . . .                                                                            | X              | 2                  |
| 11                                                                                                                                                                                                                     | —              | Fuel Check Valve (Ref)                                                                      |                |                    |
| 12                                                                                                                                                                                                                     | —              | Nut – Existing . . . . .                                                                    | O              | 1                  |
| 13                                                                                                                                                                                                                     | SS6565-8-4     | Reducer Fitting . . . . .                                                                   | X              | 1                  |
| 14                                                                                                                                                                                                                     | AS4824N08      | Seal . . . . .                                                                              | X              | 2                  |
| 15                                                                                                                                                                                                                     | 660534HR-01    | Transducer Assembly . . . . .                                                               | X              | 1                  |
| 16                                                                                                                                                                                                                     | MS27467T9B35S  | Plug . . . . .                                                                              | X              | 1                  |
|                                                                                                                                                                                                                        | M85049/49-2S8W | Backshell . . . . .                                                                         | X              | 1                  |
|                                                                                                                                                                                                                        | -3046          | Wire (Ref)                                                                                  |                |                    |
|                                                                                                                                                                                                                        | B158-704       | Heat Shrink . . . . .                                                                       | X              | A/R                |
| 17                                                                                                                                                                                                                     | 564601         | Tube Assembly . . . . .                                                                     | X              | 1                  |
| 18                                                                                                                                                                                                                     | —              | Tube Assembly – Original Equipment (see RR300 LIPC; see R66 MM for installation.) . . . . . | O              | 1                  |
| 19                                                                                                                                                                                                                     | 833811-01**    | AIS-380 Adapter (Incl item 20) . . . . .                                                    | X              | 1                  |
| 20                                                                                                                                                                                                                     | CK833811-01    | Configuration Kit (Ref, supplied with helicopter. Includes software and cable.) . . . . .   | O              | 1                  |
| 21                                                                                                                                                                                                                     | MS27039C0805   | Screw . . . . .                                                                             | X              | 4                  |
| 22                                                                                                                                                                                                                     | NAS1149FN816P  | Washer . . . . .                                                                            | X              | 4                  |
| 23                                                                                                                                                                                                                     | B269-82        | Receptacle . . . . .                                                                        | X              | 1                  |
|                                                                                                                                                                                                                        | B269-23        | Backshell . . . . .                                                                         | X              | 1                  |
|                                                                                                                                                                                                                        | B269-31        | Screw – Locking . . . . .                                                                   | X              | 2                  |
|                                                                                                                                                                                                                        | B158-4         | Heat Shrink . . . . .                                                                       | X              | A/R                |
|                                                                                                                                                                                                                        | B267-5         | Splice . . . . .                                                                            | X              | 1                  |
|                                                                                                                                                                                                                        | B267-2         | Terminator . . . . .                                                                        | X              | 1                  |
|                                                                                                                                                                                                                        | B267-3         | Terminator . . . . .                                                                        | X              | 1                  |
|                                                                                                                                                                                                                        | —              | Wires (Ref; -3043, -3044, -3045, -3046, & -3047)                                            |                |                    |
| <p>NOTES      * Fuel flow meter installation requires a compatible GPS device with display; verify GPS compatibility during maintenance.</p> <p>             ** Configure fuel flow adapter per R66 MM Chapter 28.</p> |                |                                                                                             |                |                    |
|                                                                                                                                                                                                                        |                |                                                                                             |                | Continues          |

| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                                                    | PARTS<br>AVAIL | QTY<br>PER<br>ASSY |
|----------------------------------|-------------|----------------------------------------------------------------|----------------|--------------------|
|                                  |             | G090 FUEL FLOW METER INSTALLATION (Cont'd)                     |                |                    |
| 71-27-24                         | —           | Nut . . . . .                                                  | O              | 1                  |
| 25                               | —           | Washer . . . . .                                               | O              | 1                  |
| 26                               | B297-5      | Circuit Breaker (5 amp; includes items 24, 25, 28, and 29) . . | O              | 1                  |
| 27                               | A448        | Bus Bar (Ref)                                                  |                |                    |
| 28                               | —           | Washer . . . . .                                               | O              | 2                  |
| 29                               | —           | Screw . . . . .                                                | O              | 2                  |
| 30                               | B260-2      | Terminal . . . . .                                             | X              | 1                  |
| 31                               | -3043       | Wire (Ref; power)                                              |                |                    |
| 32                               | -466        | Wire (Ref, GPS)                                                |                |                    |
| 33                               | -3045       | Wire (Ref; to GTN or IFD)                                      |                |                    |
| 34                               | -3044       | Wire (Ref; ground)                                             |                |                    |
|                                  | -3047       | Wire (Ref; chassis ground)                                     |                |                    |
| NOTES                            |             |                                                                |                |                    |