

---

---

## SERVICE BULLETIN

N° **139-681**

**DATE:** March 18, 2022

**REV. :** A - November 28, 2022

---

---

## TITLE

**ATA 33 - HELICOPTER EMERGENCY EXIT LIGHTS SYSTEM INSTALLATION**

## REVISION LOG

Revision A of this Service Bulletins extends the document effectivity.

Helicopters already compliant with previous issues of this Service Bulletin do not need any additional action.

Revision bars identify changes.

---

An appropriate entry should be made in the aircraft log book upon accomplishment.  
If ownership of aircraft has changed, please, forward to new owner.

---

## **1. PLANNING INFORMATION**

### **A. EFFECTIVITY**

AW139 helicopters S/N 31763, S/N 31765, S/N 31770, S/N 31772, S/N 31773 and S/N 31775.

### **B. COMPLIANCE**

At Customer's option.

### **C. CONCURRENT REQUIREMENTS**

N.A.

### **D. REASON**

This Service Bulletin is issued in order to provide the necessary instructions on how to perform the installation of kit HEELS P/N 4G3350F00112 modified by HEELS High Visibility Doors Variant P/N 3G3306P06711 and HEELS Variant (for bubble windows) P/N 3G3306P07211.

### **E. DESCRIPTION**

The function of the Helicopter Emergency Exit Lights System is to provide identification of all the emergency exits when the cabin becomes submerged (partially or completely), because of ditching. The kit is activated automatically by water sensors.

This SB allows the installation of HEELS on helicopters installing High Visibility Cockpit Doors and bubble windows. Bubble windows are NOT Emergency Exit. For this reason, HEELS are NOT installed on liners surrounding bubble windows.

### **F. APPROVAL**

The technical content of this Service Bulletin is approved under the authority of DOA nr. EASA.21.J.005. For helicopters registered under other Aviation Authorities, before applying the Service Bulletin, applicable Aviation Authority approval must be checked within Leonardo Helicopters customer portal.

EASA states mandatory compliance with inspections, modifications or technical directives and related time of compliance by means of relevant Airworthiness Directives.

If an aircraft listed in the effectivity embodies a modification or repair not LHD certified and affecting the content of this Service Bulletin, it is responsibility of the Owner/Operator to obtain a formal approval by Aviation Authority having jurisdiction on

S.B. N°139-681

DATE: March 18, 2022

REVISION: A - November 28, 2022

the aircraft, for any adaptation necessary before incorporation of the present Service Bulletin.

## G. MANPOWER

To comply with this Service Bulletin approximately eighty (80) MMH are deemed necessary.

MMH are based on hands-on time and can change with helicopter configuration, personnel and facilities available.

## H. WEIGHT AND BALANCE

| WEIGHT (Kg)                 | ARM (mm) | MOMENT (Kgmm) |
|-----------------------------|----------|---------------|
|                             |          | 7.45          |
| <b>LONGITUDINAL BALANCE</b> | 3629     | 27036.05      |
| <b>LATERAL BALANCE</b>      | 15       | 111.75        |

## I. REFERENCES

### 1) PUBLICATIONS

Following Data Modules refer to AMP:

| <u>DATA MODULE</u>            | <u>DESCRIPTION</u>                                  | <u>PART</u> |
|-------------------------------|---|-------------|
| DM01 39-A-00-20-00-00A-120A-A | Helicopter on ground for a safe maintenance         | -           |
| DM02 39-A-06-41-00-00A-010A-A | Access doors and panels - General data.             | -           |
| DM03 39-A-11-00-01-00A-720A-A | Decal – Install procedure                           | -           |
| DM04 39-A-20-10-08-00A-622A-A | Electrical contacts - Crimp                         | -           |
| DM05 39-C-33-52-00-00A-340A-K | Emergency exit lighting system - Function test      | -           |
| DM06 39-C-33-52-01-00B-921A-K | Left cockpit door light - Replacement               | -           |
| DM07 39-C-33-52-02-00A-921A-K | Left cockpit door light support - Replacement       | -           |
| DM08 39-C-33-52-03-00B-921A-K | Left cockpit door light wiring cover - Replacement  | -           |
| DM09 39-C-33-52-04-00B-921A-K | Left cockpit door light battery pack - Replacement  | -           |
| DM10 39-C-33-52-05-00B-921A-K | Left cockpit door light power supply - Replacement  | -           |
| DM11 39-C-33-52-06-00B-921A-K | Right cockpit door light - Replacement              | -           |
| DM12 39-C-33-52-07-00A-921A-K | Right cockpit door light support - Replacement      | -           |
| DM13 39-C-33-52-08-00B-921A-K | Right cockpit door light wiring cover - Replacement | -           |

| <u>DATA MODULE</u>            | <u>DESCRIPTION</u>  | <u>PART</u> |
|-------------------------------|---|-------------|
| DM14 39-C-33-52-09-00B-921A-K | Right cockpit door light battery pack - Replacement                 | -           |
| DM15 39-C-33-52-10-00B-921A-K | Right cockpit door light power supply - Replacement                 | -           |
| DM16 39-C-33-52-15-00A-921A-K | Left cabin door light - Replacement                                 | -           |
| DM17 39-C-33-52-16-00A-921A-K | Left cabin door battery pack - Replacement                          | -           |
| DM18 39-C-33-52-17-00A-921A-K | Left cabin door power supply - Replacement                          | -           |
| DM19 39-C-33-52-18-00A-921A-K | Right cabin door light - Replacement                                | -           |
| DM20 39-C-33-52-19-00A-921A-K | Right cabin door battery pack - Replacement                         | -           |
| DM21 39-C-33-52-20-00A-921A-K | Right cabin door power supply - Replacement                         | -           |
| DM22 39-A-52-11-01-00A-520A-A | Left cockpit door - Remove procedure                                | -           |
| DM23 39-A-52-11-01-00A-720A-A | Left cockpit door - Install procedure                               | -           |
| DM24 39-A-52-11-02-00A-520A-A | Right cockpit door - Remove procedure                               | -           |
| DM25 39-A-52-11-02-00A-720A-A | Right cockpit door - Install procedure                              | -           |
| DM26 39-B-52-11-01-01A-92AA-B | Latching mechanism (left cockpit door) - Replacement of components  | -           |
| DM27 39-B-52-11-02-01A-92AA-B | Latching mechanism (right cockpit door) - Replacement of components | -           |

Following Data Modules refer to CSRP:

| <u>DATA MODULE</u>              | <u>DESCRIPTION</u>                 | <u>PART</u> |
|---------------------------------|------------------------------------|-------------|
| DM28 CSRP-A-51-42-00-00A-720A-D | Potted Inserts - Install procedure | -           |

## 2) ACRONYMS & ABBREVIATIONS

|       |   |
|-------|---|
| AMDI  | Aircraft Material Data Information      |
| AMP   | Aircraft Maintenance Publication        |
| AR    | As Required                             |
| DM    | Data Module                             |
| DOA   | Design Organization Approval            |
| EASA  | European Aviation Safety Agency         |
| HEELS | Helicopter Emergency Exit Lights System |
| IPD   | Illustrated Part Data                   |

|          |  |
|----------|--|
| ITEP     | Illustrated tool and equipment publication |
| LHD      | Leonardo Helicopters Division              |
| LH / LHS | Left Hand Side                             |
| LWR      | Lower                                      |
| MMH      | Maintenance Man Hours                      |
| N.A.     | Not Applicable                             |
| P/N      | Part Number                                |
| RH / RHS | Right Hand Side                            |
| SB       | Service Bulletin                           |
| S/N      | Serial Number                              |
| UPR      | Upper                                      |

### **3) ANNEX**

N.A.

### **J. PUBLICATIONS AFFECTED**

N.A.

### **K. SOFTWARE ACCOMPLISHMENT SUMMARY**

N.A.

## 2. MATERIAL INFORMATION

### A. REQUIRED MATERIALS

#### 1) PARTS

| #  | P/N           | ALTERNATIVE P/N | DESCRIPTION   | Q.TY | LVL  | NOTE | LOG P/N   |
|----|---------------|-----------------|---|------|------|------|-----------|
| 1  | 4G3350F00112  |                 | KIT HEELS   | REF  | .    |      | -         |
| 2  | 3G3306P06711  |                 | HEELS HIGH<br>VISIBILITY DOORS<br>COMPLETE<br>PROVISION | REF  | ..   |      | -         |
| 3  | 3G3306P06612  |                 | HEELS HIGH<br>VISIBILITY DOORS<br>VARIANT               | REF  | ...  |      | -         |
| 4  | 3G3350A00132  |                 | Heels Light Assy  | 2    | .... |      | 139-681L1 |
| 5  | 3G3350A00232  |                 | Heels Light Assy  | 2    | .... |      | 139-681L1 |
| 6  | 3G3350A00332  |                 | Heels Light Assy  | 2    | .... |      | 139-681L1 |
| 7  | 3G3350A00432  |                 | Heels Light Assy  | 2    | .... |      | 139-681L1 |
| 8  | 3G3350A00532  |                 | Heels Light Assy  | 2    | .... |      | 139-681L1 |
| 9  | 3G3350A01732  |                 | Power Supply Assy                                       | 2    | .... |      | 139-681L1 |
| 10 | 3G3350A01832  |                 | Battery Assy  | 2    | .... |      | 139-681L1 |
| 11 | 3G5310A09751  |                 | Bracket   | 2    | .... |      | 139-681L1 |
| 12 | 3G9A01A52901  |                 | Heels Lights Variant<br>C/A (A1A529)                    | 1    | .... |      | 139-681L1 |
| 13 | 3G9A01B48901  |                 | Heels Light Variant C/A<br>(A1B489)                     | 1    | .... |      | 139-681L1 |
| 14 | A388A3E14C75  |                 | Standoff  | 2    | .... |      | 139-681L1 |
| 15 | A522A02A      |                 | Rail  | 2    | .... |      | 139-681L1 |
| 16 | A524A1A-A     |                 | Identification Label                                    | 2    | .... |      | 139-681L1 |
| 17 | A593A-A05     |                 | Terminal Board  | 2    | .... |      | 139-681L1 |
| 18 | A596A04       |                 | Junction in line  | 2    | .... |      | 139-681L1 |
| 19 | AW001CB03H    |                 | Clamp   | 2    | .... |      | 139-681L1 |
| 20 | AW001CL009-CM |                 | Support   | 4    | .... |      | 139-681L1 |
| 21 | ED300BT5      |                 | Decal   | 1    | .... |      | 139-681L1 |
| 22 | ED300BT6      |                 | Decal   | 1    | .... |      | 139-681L1 |
| 23 | ED300DS61     |                 | Decal   | 1    | .... |      | 139-681L1 |
| 24 | ED300DS62     |                 | Decal   | 1    | .... |      | 139-681L1 |
| 25 | ED300DS63     |                 | Decal   | 1    | .... |      | 139-681L1 |
| 26 | ED300DS64     |                 | Decal   | 1    | .... |      | 139-681L1 |
| 27 | ED300DS65     |                 | Decal   | 1    | .... |      | 139-681L1 |
| 28 | ED300DS81     |                 | Decal   | 1    | .... |      | 139-681L1 |
| 29 | ED300DS82     |                 | Decal   | 1    | .... |      | 139-681L1 |
| 30 | ED300DS83     |                 | Decal   | 1    | .... |      | 139-681L1 |
| 31 | ED300DS84     |                 | Decal   | 1    | .... |      | 139-681L1 |
| 32 | ED300DS85     |                 | Decal   | 1    | .... |      | 139-681L1 |
| 33 | ED300G5       |                 | Decal   | 1    | .... |      | 139-681L1 |
| 34 | ED300G6       |                 | Decal   | 1    | .... |      | 139-681L1 |
| 35 | ED300S115     |                 | Decal   | 1    | .... |      | 139-681L1 |
| 36 | ED300S119     |                 | Decal   | 1    | .... |      | 139-681L1 |
| 37 | ED300S303     |                 | Decal   | 1    | .... |      | 139-681L1 |
| 38 | ED300S304     |                 | Decal   | 1    | .... |      | 139-681L1 |
| 39 | ED300TB1017   |                 | Decal   | 1    | .... |      | 139-681L1 |
| 40 | ED300TB1018   |                 | Decal   | 1    | .... |      | 139-681L1 |
| 41 | ED300TB157    |                 | Decal   | 1    | .... |      | 139-681L1 |
| 42 | ED300TB158    |                 | Decal   | 1    | .... |      | 139-681L1 |
| 43 | NAS1149D0316J |                 | Washer  | 6    | .... |      | 139-681L1 |

S.B. N°139-681

DATE: March 18, 2022

REVISION: A - November 28, 2022

| #         | P/N                 | ALTERNATIVE P/N | DESCRIPTION                                       | Q.TY       | LVL        | NOTE | LOG P/N   |
|-----------|---------------------|-----------------|---|------------|------------|------|-----------|
| 44        | NAS1149D0332J       |                 | Washer  | 2          | ....       |      | 139-681L1 |
| 45        | NAS1149DN816J       |                 | Washer  | 4          | ....       |      | 139-681L1 |
| 46        | NAS1190E3P6AK       |                 | Screw   | 2          | ....       |      | 139-681L1 |
| 47        | NAS1802-08-4        |                 | Screw   | 4          | ....       |      | 139-681L1 |
| 48        | NAS1802-3-4         |                 | Screw   | 6          | ....       |      | 139-681L1 |
| <b>49</b> | <b>3G5310A09212</b> |                 | <b>HEELS HIGH VISIBILITY STRUCTURAL PROVISION</b> | <b>REF</b> | <b>...</b> |      | <b>-</b>  |
| 50        | 3G3350A01632        |                 | Heels Support Assy LHS                            | 1          | ....       | (1)  | -         |
| 51        | 3G3350A01932        |                 | Heels Support Assy RHS                            | 1          | ....       | (1)  | -         |
| 52        | 3G3350A03951        |                 | Spacer LWR LH                                     | 1          | ....       |      | 139-681L1 |
| 53        | 3G3350A04051        |                 | Spacer LWR RH                                     | 1          | ....       |      | 139-681L1 |
| 54        | 3G3350A04151        |                 | Spacer UPR LH                                     | 1          | ....       |      | 139-681L1 |
| 55        | 3G3350A04251        |                 | Spacer UPR RH                                     | 1          | ....       |      | 139-681L1 |
| 56        | 3G5310A09452        |                 | Protection LHS                                    | 1          | ....       | (2)  | -         |
| 57        | 3G5310A09552        |                 | Protection RHS                                    | 1          | ....       | (2)  | -         |
| 58        | A428A3C07           |                 | Screw   | 12         | ....       |      | 139-681L1 |
| 59        | A428A3C10           |                 | Screw   | 8          | ....       |      | 139-681L1 |
| 60        | MS27980-18N         |                 | Stud  | 2          | ....       |      | 139-681L1 |
| 61        | NAS1149D0316J       |                 | Washer  | 2          | ....       |      | 139-681L1 |
| 62        | NAS1836C08-10M      |                 | Insert  | 4          | ....       |      | 139-681L1 |
| 63        | NAS1836C3-10M       |                 | Insert  | 6          | ....       |      | 139-681L1 |
| 64        | NAS1836C3-13M       |                 | Insert  | 10         | ....       |      | 139-681L1 |
| 65        | NAS43HT3-19         |                 | Spacer  | 4          | ....       |      | 139-681L1 |
| 66        | NAS43HT3-21         |                 | Spacer  | 4          | ....       |      | 139-681L1 |
| 67        | NAS43HT3-6          |                 | Spacer  | 2          | ....       |      | 139-681L1 |
| <b>68</b> | <b>4G3350A00112</b> |                 | <b>HEELS INSTALLATION</b>                         | <b>REF</b> | <b>..</b>  |      | <b>-</b>  |
| 69        | 3G3350A00611        |                 | HEELS light assy                                  | 4          | ...        |      | 139-681L1 |
| 70        | 3G3350A00911        |                 | HEELS light assy                                  | 5          | ...        |      | 139-681L1 |
| 71        | 3G3350A01011        |                 | HEELS light assy                                  | 2          | ...        |      | 139-681L1 |
| 72        | 3G3350A01111        |                 | HEELS light assy                                  | 2          | ...        |      | 139-681L1 |
| 73        | 3G3350A01211        |                 | HEELS light assy                                  | 2          | ...        |      | 139-681L1 |
| 74        | 3G3350A01311        |                 | HEELS light assy                                  | 2          | ...        |      | 139-681L1 |
| 75        | 3G3350A01411        |                 | HEELS light assy                                  | 2          | ...        |      | 139-681L1 |
| 76        | 3G3350A01511        |                 | HEELS light assy                                  | 3          | ...        |      | 139-681L1 |
| 77        | 3G3350A01611        |                 | HEELS light assy                                  | 2          | ...        |      | 139-681L1 |
| 78        | 3G3350A01711        |                 | Power supply assy                                 | 2          | ...        |      | 139-681L1 |
| 79        | 3G3350A01811        |                 | Battery assy                                      | 2          | ...        |      | 139-681L1 |
| 80        | 3G5310A09751        |                 | Bracket   | 2          | ...        |      | 139-681L1 |
| 81        | 3G9B01A30001        |                 | HEEL lights C/A (B1A300)                          | 1          | ...        |      | 139-681L1 |
| 82        | 3G9B01B30001        |                 | HEEL lights C/A (B1B300)                          | 1          | ...        |      | 139-681L1 |
| 83        | A522A02A            |                 | Rail  | 2          | ...        |      | 139-681L1 |
| 84        | A596A04             |                 | Junction  | 2          | ...        |      | 139-681L1 |
| 85        | AW001CB04H          |                 | Clamp   | 2          | ...        |      | 139-681L1 |
| 86        | AW001CB05H          |                 | Clamp   | 1          | ...        |      | 139-681L1 |
| 87        | AW001CB06H          |                 | Clamp   | 1          | ...        |      | 139-681L1 |
| 88        | ED300BT3            |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 89        | ED300BT4            |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 90        | ED300DS100          |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 91        | ED300DS71           |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 92        | ED300DS72           |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 93        | ED300DS73           |                 | Decal   | 1          | ...        |      | 139-681L1 |

| #          | P/N                 | ALTERNATIVE P/N | DESCRIPTION                                       | Q.TY       | LVL        | NOTE | LOG P/N   |
|------------|---------------------|-----------------|---|------------|------------|------|-----------|
| 94         | ED300DS74           |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 95         | ED300DS75           |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 96         | ED300DS76           |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 97         | ED300DS77           |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 98         | ED300DS78           |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 99         | ED300DS79           |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 100        | ED300DS80           |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 101        | ED300DS91           |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 102        | ED300DS92           |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 103        | ED300DS93           |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 104        | ED300DS94           |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 105        | ED300DS95           |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 106        | ED300DS96           |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 107        | ED300DS97           |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 108        | ED300DS98           |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 109        | ED300DS99           |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 110        | ED300G3             |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 111        | ED300G4             |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 112        | ED300S111           |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 113        | ED300S112           |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 114        | ED300S117           |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 115        | ED300S118           |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 116        | ED300TB2048         |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 117        | ED300TB2049         |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 118        | ED300TB264          |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 119        | ED300TB265          |                 | Decal   | 1          | ...        |      | 139-681L1 |
| 120        | MS35206-225         |                 | Screw   | 4          | ...        |      | 139-681L1 |
| 121        | MS35207-259         |                 | Screw   | 6          | ...        |      | 139-681L1 |
| 122        | NAS1149D0316K       |                 | Washer  | 6          | ...        |      | 139-681L1 |
| <b>123</b> | <b>3G2580A00117</b> |                 | <b>PASSENGERS CABIN LINERS INSTALLATION HEELS</b> | <b>REF</b> | <b>...</b> |      | <b>-</b>  |
| 124        | 3G2580A53334        |                 | Pass door liner assy LH with HEELS                | 1          | ....       | (3)  | -         |
| 125        | 3G2580A53434        |                 | Pass door liner assy RH with HEELS                | 1          | ....       | (3)  | -         |
| 126        | AN525-832R7         |                 | Screw   | 10         | ....       |      | 139-681L1 |

Refer also to IPD for the spares materials required to comply with the AMP DMs referenced in the accomplishment instructions.

## 2) CONSUMABLES

The following consumable materials, or equivalent, are necessary to accomplish this Service Bulletin:

| #   | SPEC./LHD CODE NUMBER  | DESCRIPTION   | Q.TY | NOTE | PART |
|-----|--|---|------|------|------|
| 127 | MMM-A-132, Type II, Class 2<br>199-05-002 Type I, Class 2,<br>Code No. 900000581 | Adhesive EA9309.3NA (C021)                              | AR   | (4)  | -    |
| 128 | Code No. 99999999000001113   | TAPE 3M 363 (C260)                                      | AR   | (4)  | -    |
| 129 | MMM-A-132, Type I, Class 3<br>199-05-002 Type II, Class 2,<br>Code No. 900004603 | Adhesive EA934NA (C057)                                 | AR   | (4)  | -    |
| 130 | Code No. 99999999000004268<br>or RMTL430920                                      | 3M HI-performance velcro pile SJ3571<br>(25.4 mm width) | AR   | (4)  | -    |

S.B. N°139-681

DATE: March 18, 2022

REVISION: A - November 28, 2022



| #   | SPEC./LHD CODE NUMBER | DESCRIPTION                  | Q.TY | NOTE | PART |
|-----|-----------------------|------------------------------|------|------|------|
| 131 | Code No. 900005139    | Adhesion promoter 86A (C198) | AR   | (4)  | -    |

Refer also to AMDI for the consumable materials required to comply with the AMP DMs referenced in the accomplishment instructions.

### 3) LOGISTIC MATRIX

In order to apply this Service Bulletin, the following Logistic P/N can be ordered in accordance with the applicable notes:

| LOGISTIC P/N | Q.TY (PER HELO) | NOTE | PART |
|--------------|-----------------|------|------|
| 139-681L1    | 1               |      | -    |
| 3G3350A01632 | 1               | (1)  | -    |
| 3G3350A01932 | 1               | (1)  | -    |
| 3G5310A09452 | 1               | (2)  | -    |
| 3G5310A09552 | 1               | (2)  | -    |
| 3G2580A53334 | 1               | (3)  | -    |
| 3G2580A53434 | 1               | (3)  | -    |

### NOTES

- (1) This P/N depends upon helicopter internal painting and may be supplied as a production P/N ending with suffix –CS01 or any combination of letters or numbers.
- (2) This P/N depends upon helicopter internal painting and may be supplied as a production P/N ending with suffix -A or –CS01 or any combination of letters or numbers.
- (3) This P/N depends upon helicopter internal painting and may be supplied as a production P/N ending with suffix –CS01 or any combination of letters or numbers.
- (4) Item to be procured as local supply.

### B. SPECIAL TOOLS

Refer to ITEP for the special tools required to comply with the AMP DM referenced in the accomplishment instructions.

### C. INDUSTRY SUPPORT INFORMATION

Customization.

### **3. ACCOMPLISHMENT INSTRUCTIONS**

#### **GENERAL NOTES**

- a) Place an identification tag on all components that are re-usable, including the attaching hardware that has been removed to gain access to the modification area and adequately protect them until their later re-use.
  - b) Shape the cables in order to prevent interference with the structure and the other existing installations, using where necessary suitable lacing cords.
  - c) Exercise extreme care during drilling operations to prevent instruments, cables and hoses damage.
  - d) After drilling, remove all swarf and sharp edges. Apply on bare metal a light film of primer unless the hole is used for ground connection.
  - e) During the installation of bonding braids or components requiring grounding, clean the surface structure in order to obtain a good ground contact.
  - f) Let adhesive cure at room temperature for at least 24 hours unless otherwise specified.
  - g) Exposed thread surface and nut must be protected using a layer of tectyl according to MIL-C-16173 grade I.
  - h) All lengths are in mm.
- 
- 1. In accordance with AMP DM 39-A-00-20-00-00A-120A-A, prepare the helicopter on ground for a safe maintenance. Disconnect the battery, all electrical power sources and/or the external power supply.
  - 2. In accordance with AMP DM 39-A-06-41-00-00A-010A-A and with reference to Figures 1, 9 and 12, remove all external panels, internal panels and internal liners as required to gain access to the area affected by the installation.
  - 3. With reference to Figures 1 thru 8, perform the HEELS high visibility structural provision P/N 3G5310A09212 as described in the following procedure:
    - 3.1 In accordance with AMP DM 39-A-52-11-01-00A-520A-A, remove the left cockpit door from the helicopter.

- 3.2 Put the left cockpit door on an applicable work table.
- 3.3 In accordance with applicable steps of AMP DM 39-B-52-11-01-01A-92AA-B and with reference to Figure 1, remove the cover LH P/N 3G5211A05952 with the related hardware from the left cockpit door. Retain for later re-use.
- 3.4 With reference to Figure 5, perform indicated cut out on the cover LH P/N 3G5211A05952.
- 3.5 With reference to Figure 2 View A, temporarily locate the HEELS support assy LHS P/N 3G3350A01632 on the left pilot door panel and countermark the positions of n°5 insert holes.
- 3.6 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 2 View A and Figure 3 Detail D, drill n°5 holes  $\varnothing 11.48 \div 11.61$  in the previously countermarked positions and install n°5 inserts P/N NAS1836C3-13M by means of adhesive EA934NA (C057) on the left pilot door panel.
- 3.7 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 6 View J and Figure 3 Detail D, at the indicated positions C-D-E, install n°3 inserts P/N NAS1836C3-10M by means of adhesive EA934NA (C057) on the internal side of the left pilot door.
- 3.8 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 6 View J, at the indicated positions A-B, install n°2 inserts P/N NAS1836C08-10M by means of adhesive EA934NA (C057) on the internal side of the left pilot door.
- 3.9 With reference to Figure 6 View J and Figure 7 Section L-L and Section K-K, remove n°4 screws P/N A428A3C05 from the indicated positions.
- 3.10 With reference to Figure 6 View J and Figure 8 View N and Section Q-Q, install the spacer UPR LH P/N 3G3350A04151 by means of adhesive EA9309.3NA (C021) in the indicated position on the left pilot door.

**NOTE**

Velcro pile can be trimmed during installation.

- 3.11 With reference to Figure 6 View J and Figure 8 View N and Section Q-Q, install velcro pile SJ3571 by means of adhesion promoter 86A (C198) as required.
- 3.12 With reference to Figure 6 View J and Figure 8 View P and Section R-R, install the spacer LWR LH P/N 3G3350A03951 by means of adhesive EA9309.3NA (C021) in the indicated position on the left pilot door.

**NOTE**

Velcro pile can be trimmed during installation.

- 3.13 With reference to Figure 6 View J and Figure 8 View P and Section R-R, install velcro pile SJ3571 by means of adhesion promoter 86A (C198) as required.
- 3.14 In accordance with AMP DM 39-A-52-11-02-00A-520A-A, remove the right cockpit door from the helicopter.
- 3.15 Put the right cockpit door on an applicable work table.
- 3.16 In accordance with applicable steps of AMP DM 39-B-52-11-02-01A-92AA-B and with reference to Figure 1, remove the cover RH P/N 3G5211A06052 with the related hardware from the right cockpit door. Retain for later re-use.
- 3.17 With reference to Figure 5, perform indicated cut out on the cover RH P/N 3G5211A06052.
- 3.18 With reference to Figure 2 View A, temporarily locate the HEELS support assy RHS P/N 3G3350A01932 on the right pilot door panel and countermark the positions of n°5 insert holes.
- 3.19 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 2 View A and Figure 3 Detail D, drill n°5 holes  $\varnothing 11.48 \div 11.61$  in the previously countermarked positions and install n°5 inserts P/N NAS1836C3-13M by means of adhesive EA934NA (C057) on the right pilot door panel.
- 3.20 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 6 View J and Figure 3 Detail D, at the indicated positions C-D-E, install n°3 inserts P/N NAS1836C3-10M by means of adhesive EA934NA (C057) on the internal side of the right pilot door.
- 3.21 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 6 View J, at the indicated positions A-B, install n°2 inserts P/N NAS1836C08-10M by means of adhesive EA934NA (C057) on the internal side of the right pilot door.
- 3.22 With reference to Figure 6 View J and Figure 7 Section L-L and Section K-K, remove n°4 screws P/N A428A3C05 from the indicated positions.
- 3.23 With reference to Figure 6 View J and Figure 8 View N and Section Q-Q, install the spacer UPR RH P/N 3G3350A04251 by means of adhesive EA9309.3NA (C021) in the indicated position on the right pilot door.

**NOTE**

Velcro pile can be trimmed during installation.

- 3.24 With reference to Figure 6 View J and Figure 8 View N and Section Q-Q, install velcro pile SJ3571 by means of adhesion promoter 86A (C198) as required.

- 3.25 With reference to Figure 6 View J and Figure 8 View P and Section R-R, install the spacer LWR RH P/N 3G3350A04051 by means of adhesive EA9309.3NA (C021) in the indicated position on the right pilot door.

**NOTE**

Velcro pile can be trimmed during installation.

- 3.26 With reference to Figure 6 View J and Figure 8 View P and Section R-R, install velcro pile SJ3571 by means of adhesion promoter 86A (C198) as required.
4. With reference to Figures 9 thru 11, perform the HEELS high visibility doors variant P/N 3G3306P06612 as described in the following procedure:
  - 4.1 With reference to Figure 10, install HEELS lights on the left pilot door as described in the following procedure:
    - 4.1.1 Install rail P/N A522A02A by means of n°2 screws P/N NAS1802-08-4 and n°2 washers P/N NAS11149DN816J.
    - 4.1.2 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300TB157 in an area adjacent to previously installed rail.
    - 4.1.3 In accordance with applicable steps of AMP DM 39-C-33-52-04-00B-921A-K and DM 39-C-33-52-05-00B-921A-K, install battery pack assy P/N 3G3350A01832 and power supply assy P/N 3G3350A01732 by means of bracket P/N 3G5310A09751, n°3 washers P/N NAS1149D0316J and n°3 screws P/N NAS1802-3-4.
    - 4.1.4 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300G5 and decal P/N ED300BT5 respectively in an area adjacent to previously installed power supply assy and battery pack assy.
    - 4.1.5 At locations n°1-2, install n°2 supports P/N AW001CL009-CM by means of adhesive EA9309.3NA (C021) on the bracket P/N 3G5310A09751.
    - 4.1.6 At location n°3, install standoff P/N A388A3E14C75 by means of adhesive EA9309.3NA (C021) and clamp P/N AW001CB03H by means of screw P/N NAS1190E3P6AK and washer P/N NAS1149D0332J.
    - 4.1.7 Install junction P/N A596A04.
    - 4.1.8 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300TB1017 in an area adjacent to previously installed junction.
    - 4.1.9 Install terminal board P/N A593A-A05 and identification label P/N A524A1A-A on the rail previously installed.

- 4.1.10 Lay down the HEEL lights C/A P/N 3G9A01A52901 (A1A529).
- 4.1.11 With reference to Figure 10 (View A), install the cable assy A1A529 by means of adhesive tape (C260).
- 4.1.12 In accordance with applicable steps of AMP DM 39-C-33-52-01-00B-921A-K, install the following HEELS lights by means of adhesive EA934NA (C057) on the HEELS support assy LHS P/N 3G3350A01632:
- Light assy P/N 3G3350A00132;
  - Light assy P/N 3G3350A00232;
  - Light assy P/N 3G3350A00332;
  - Light assy P/N 3G3350A00432;
  - Light assy P/N 3G3350A00532.

**NOTE**

If necessary, it is allowed to trim the support assy P/N 3G3350A01632 to prevent interference between the support assy and the window seal.

**NOTE**

If necessary, it is allowed to locally rework liners to perform required water sensors test holes.

- 4.1.13 In accordance with applicable steps of AMP DM 39-C-33-52-01-00B-921A-K and with reference to Figures 1, 3 and 4, install HEELS support assy LHS P/N 3G3350A01632 on the left pilot door by means of n°6 screws P/N A428A3C07, spacer P/N NAS43HT3-6, stud P/N MS27980-18N and washer P/N NAS1149D0316J.
- 4.1.14 In accordance with applicable steps of AMP DM 39-C-33-52-01-00B-921A-K and with reference to Figure 1 and Figure 7, install protection LHS P/N 3G5310A09452 on the left pilot door by means of n°4 screws P/N A428A3C10, n°2 spacers P/N NAS43HT3-19, n°2 spacers P/N NAS43HT3-21.
- 4.1.15 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install the following decals in an area adjacent to previously installed HEELS lights:
- Decal ED300DS61;
  - Decal ED300DS62;
  - Decal ED300DS63;

- Decal ED300DS64;
  - Decal ED300DS65.
- 4.1.16 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300S115 in an area adjacent to water sensor S115.
- 4.1.17 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300S303 in an area adjacent to water sensor S303.
- 4.1.18 With reference to Figure 10 and Figure 17 wiring diagram, perform the electrical connections of C/A A1A529 between water sensors S115 and S303, splices SPG5-1 and SPG5-2.

**NOTE**

If necessary, it is allowed to trim the cover LH to prevent interference between the battery pack and power supply assemblies.

- 4.2 In accordance with applicable steps of AMP DM 39-B-52-11-01-01A-92AA-B and with reference to Figure 1, re-install the cover LH P/N 3G5211A05952 by means of relative hardware previously removed (Ref. step 3.3).
- 4.3 With reference to Figure 11, install HEELS lights on the right pilot door as described in the following procedure:
- 4.3.1 Install rail P/N A522A02A by means of n°2 screws P/N NAS1802-08-4 and n°2 washers P/N NAS11149DN816J.
- 4.3.2 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300TB158 in an area adjacent to previously installed rail.
- 4.3.3 In accordance with applicable steps of AMP DM 39-C-33-52-09-00B-921A-K and DM 39-C-33-52-10-00B-921A-K install battery pack assy P/N 3G3350A01832 and power supply assy P/N 3G3350A01732 by means of bracket P/N 3G5310A09751, n°3 washers P/N NAS1149D0316J and n°3 screws P/N NAS1802-3-4.
- 4.3.4 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300G6 and decal P/N ED300BT6 respectively in an area adjacent to previously installed power supply assy and battery pack assy.
- 4.3.5 At locations n°4-5, install n°2 supports P/N AW001CL009-CM by means of adhesive EA9309.3NA (C021) on the bracket P/N 3G5310A09751.

- 4.3.6 At location n°6, install standoff P/N A388A3E14C75 by means of adhesive EA9309.3NA (C021) and clamp P/N AW001CB03H by means of screw P/N NAS1190E3P6AK and washer P/N NAS1149D0332J.
- 4.3.7 Install junction P/N A596A04.
- 4.3.8 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300TB1018 in an area adjacent to previously installed junction.
- 4.3.9 Install terminal board P/N A593A-A05 and identification label P/N A524A1A-A on the rail previously installed.
- 4.3.10 Lay down the HEEL lights C/A P/N 3G9A01B48901 (A1B489).
- 4.3.11 With reference to Figure 11 (View B), install the cable assy A1B489 by means of adhesive tape (C260).
- 4.3.12 In accordance with applicable steps of AMP DM 39-C-33-52-06-00B-921A-K, install the following HEELS lights by means of adhesive EA934NA (C057) on the HEELS support assy RHS P/N 3G3350A01932:
- Light assy P/N 3G3350A00132;
  - Light assy P/N 3G3350A00232;
  - Light assy P/N 3G3350A00332;
  - Light assy P/N 3G3350A00432;
  - Light assy P/N 3G3350A00532.

**NOTE**

If necessary, it is allowed to trim the support assy P/N 3G3350A01932 to prevent interference between the support assy and the window seal.

**NOTE**

If necessary, it is allowed to locally rework liners to perform required water sensors test holes.

- 4.3.13 In accordance with applicable steps of AMP DM 39-C-33-52-06-00B-921A-K and with reference to Figures 1, 3 and 4, install HEELS support assy RHS P/N 3G3350A01932 on the right pilot door by means of n°6 screws P/N A428A3C07, spacer P/N NAS43HT3-6, stud P/N MS27980-18N and washer P/N NAS1149D0316J.



- 4.3.14 In accordance with applicable steps of AMP DM 39-C-33-52-06-00B-921A-K and with reference to Figure 1 and Figure 7, install protection RHS P/N 3G5310A09552 on the right pilot door by means of n°4 screws P/N A428A3C10, n°2 spacers P/N NAS43HT3-19, n°2 spacers P/N NAS43HT3-21.
- 4.3.15 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install the following decals in an area adjacent to previously installed HEELS lights:
- Decal ED300DS81;
  - Decal ED300DS82;
  - Decal ED300DS83;
  - Decal ED300DS84;
  - Decal ED300DS85.
- 4.3.16 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300S119 in an area adjacent to water sensor S119.
- 4.3.17 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300S304 in an area adjacent to water sensor S304.
- 4.3.18 With reference to Figure 11 and Figure 18 wiring diagram, perform the electrical connections of C/A A1B489 between water sensors S119 and S304, splices SPG6-1 and SPG6-2.

**NOTE**

If necessary, it is allowed to trim the cover RH to prevent interference between the battery pack and power supply assemblies.

- 4.4 In accordance with applicable steps of AMP DM 39-B-52-11-02-01A-92AA-B and with reference to Figure 1, re-install the cover RH P/N 3G5211A06052 by means of relative hardware previously removed (Ref. step 3.16).
5. With reference to Figures 12 thru 14, perform the HEELS installation P/N 4G3350A00112 as described in the following procedure:
- 5.1 With reference to Figure 13, install HEELS lights on the pass door liner assy LH P/N 3G2580A53334 as described in the following procedure:
- 5.1.1 Install rail P/N A522A02A by means of n°2 screws P/N MS35206-225.
- 5.1.2 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300TB265 in an area adjacent to previously installed rail.

- 5.1.3 In accordance with applicable steps of AMP DM 39-C-33-52-16-00A-921A-K and DM 39-C-33-52-17-00A-921A-K, install battery pack assy P/N 3G3350A01811, power supply assy P/N 3G3350A01711, clamp P/N AW001CB04H and clamp P/N AW001CB05H by means of bracket P/N 3G5310A09751, n°3 washers P/N NAS1149D0316K and n°3 screws P/N MS35207-259.
- 5.1.4 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300G3 and decal P/N ED300BT3 respectively in an area adjacent to previously installed power supply assy and battery pack assy.
- 5.1.5 Fix junction P/N A596A04 by means of clamp P/N AW001CB05H.
- 5.1.6 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300TB2049 in an area adjacent to previously installed junction.
- 5.1.7 Lay down the HEEL lights C/A P/N 3G9B01A30001 (B1A300).
- 5.1.8 With reference to Figure 13 (View looking passenger door LH side from external side), install the cable assy B1A300 on the liner by means of adhesive tape (C260).
- 5.1.9 In accordance with with applicable steps of AMP DM 39-C-33-52-15-00A-921A-K, install the following HEELS lights by means of adhesive EA934NA (C057):
- n°3 Light assemblies P/N 3G3350A00911;
  - Light assy P/N 3G3350A01011;
  - Light assy P/N 3G3350A01111;
  - Light assy P/N 3G3350A01211;
  - Light assy P/N 3G3350A01311;
  - Light assy P/N 3G3350A01411;
  - Light assy P/N 3G3350A01511;
  - Light assy P/N 3G3350A01611.
- 5.1.10 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install the following decals in an area adjacent to previously installed HEELS lights:
- Decal ED300DS71;
  - Decal ED300DS72;
  - Decal ED300DS73;
  - Decal ED300DS74;
  - Decal ED300DS75;

- Decal ED300DS76;
  - Decal ED300DS77;
  - Decal ED300DS78;
  - Decal ED300DS79;
  - Decal ED300DS80.
- 5.1.11 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300S111 in an area adjacent to water sensor S111.
- 5.1.12 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300S112 in an area adjacent to water sensor S112.
- 5.1.13 With reference to Figure 13 and Figure 15 wiring diagram, perform the electrical connections of C/A B1A300 between water sensors S111 and S112, splices SPG3-1 and SPG3-2.
- 5.2 With reference to Figure 14, install HEELS lights on the pass door liner assy RH P/N 3G2580A53434 as described in the following procedure:
- 5.2.1 Install rail P/N A522A02A by means of n°2 screws P/N MS35206-225.
- 5.2.2 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300TB264 in an area adjacent to previously installed rail.
- 5.2.3 In accordance with applicable steps of AMP DM 39-C-33-52-19-00A-921A-K and DM 39-C-33-52-20-00A-921A-K, install battery pack assy P/N 3G3350A01811, power supply assy P/N 3G3350A01711, clamp P/N AW001CB04H and clamp P/N AW001CB06H by means of bracket P/N 3G5310A09751, n°3 washers P/N NAS1149D0316K and n°3 screws P/N MS35207-259.
- 5.2.4 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300G4 and decal P/N ED300BT4 respectively in an area adjacent to previously installed power supply assy and battery pack assy.
- 5.2.5 Fix junction P/N A596A04 by means of clamp P/N AW001CB06H.
- 5.2.6 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300TB2048 in an area adjacent to previously installed junction.
- 5.2.7 Lay down the HEEL lights C/A P/N 3G9B01B30001 (B1B300).
- 5.2.8 With reference to Figure 14 (View looking passenger door RH side from external side), install the cable assy B1B300 on the liner by means of adhesive tape (C260).
- 5.2.9 In accordance with with applicable steps of AMP DM 39-C-33-52-18-00A-921A-K, install the following HEELS lights by means of adhesive EA934NA (C057):

- n°2 Light assemblies P/N 3G3350A00911;
- Light assy P/N 3G3350A01011;
- Light assy P/N 3G3350A01111;
- Light assy P/N 3G3350A01211;
- Light assy P/N 3G3350A01311;
- Light assy P/N 3G3350A01411;
- n°2 Light assemblies P/N 3G3350A01511;
- Light assy P/N 3G3350A01611.

5.2.10 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install the following decals in an area adjacent to previously installed HEELS lights:

- Decal ED300DS91;
- Decal ED300DS92;
- Decal ED300DS93;
- Decal ED300DS94;
- Decal ED300DS95;
- Decal ED300DS96;
- Decal ED300DS97;
- Decal ED300DS98;
- Decal ED300DS99;
- Decal ED300DS100.

5.2.11 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300S117 in an area adjacent to water sensor S117.

5.2.12 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300S118 in an area adjacent to water sensor S118.

5.2.13 With reference to Figure 14 and Figure 16 wiring diagram, perform the electrical connections of C/A B1B300 between water sensors S117 and S118, splices SPG4-1 and SPG4-2.

6. Perform a pin-to-pin continuity check of all the electrical connection made.

#### **NOTE**

If necessary, it is allowed to locally rework liners to perform required water sensors test holes and avoid interference.

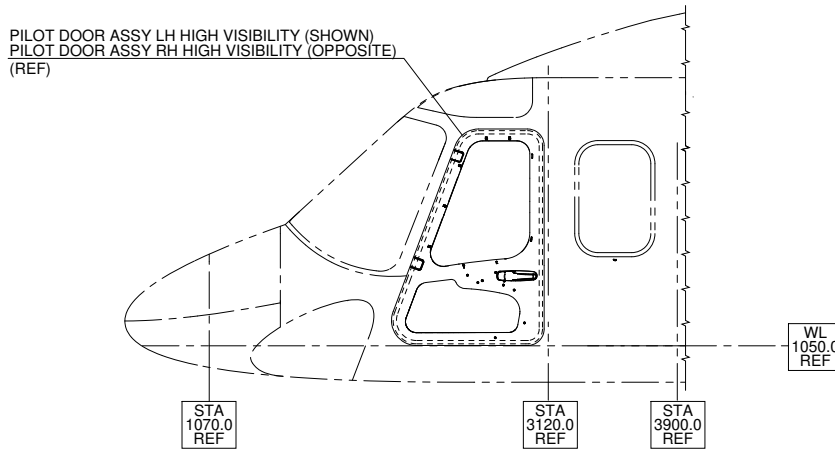
7. In accordance with AMP DM 39-A-06-41-00-00A-010A-A, re-install all external panels, internal panels and internal liners previously removed.

8. In accordance with AMP DM 39-A-52-11-01-00A-720A-A, re-install the left cockpit door on the helicopter.
9. In accordance with AMP DM 39-A-52-11-02-00A-720A-A, re-install the right cockpit door on the helicopter.
10. In accordance with AMP DM 39-C-33-52-00-00A-340A-K, perform the function test of the emergency exit lighting system.
11. In accordance with weight and balance changes, update the Chart A (see Rotorcraft Flight Manual, Part II, section 6).
12. Return the helicopter to flight configuration and record for compliance with this Service Bulletin on the helicopter logbook.
13. Send the attached compliance form to the following mail box:

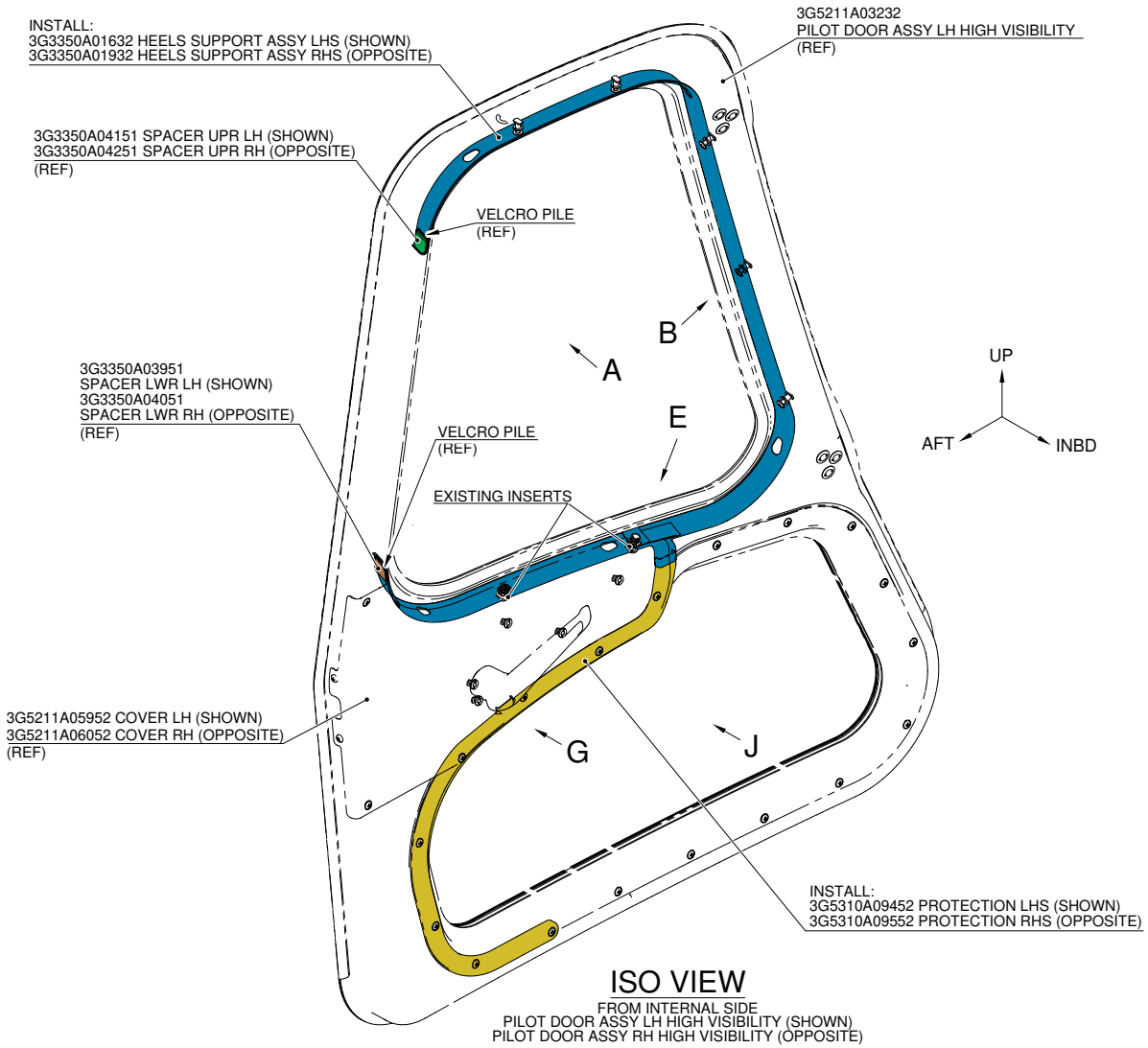
[engineering.support.lhd@leonardo.com](mailto:engineering.support.lhd@leonardo.com)

As an alternative, gain access to My Communications section on Leonardo WebPortal and compile the “Service Bulletin Application Communication”.

**3G5310A09212**  
**HEELS HIGH VISIBILITY**  
**STRUCTURAL PROVISION**

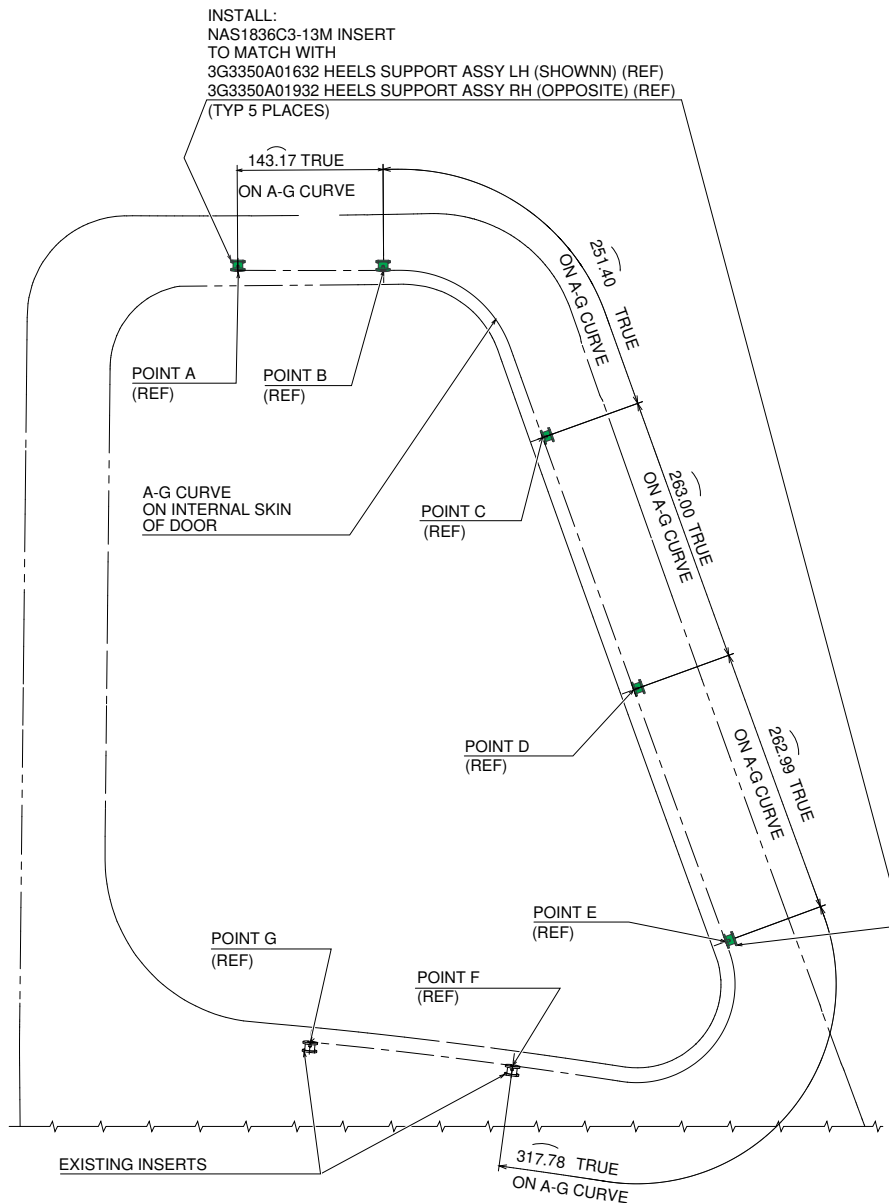


**LHS EXTERNAL VIEW**



**Figure 1**

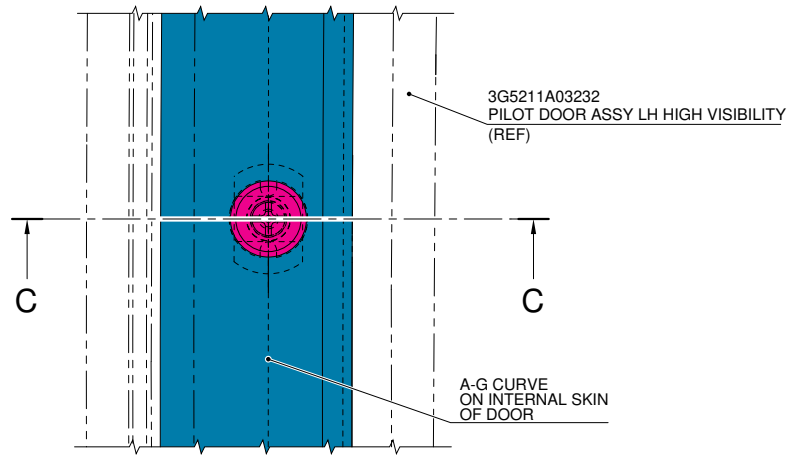
| POINT<br>(ON INTERNAL<br>SKIN OF DOOR) | COORDINATES (REF) |          |         |         |
|--|-------------------|----------|---------|---------|
|  | X                 | Y/LHS    | Y/RHS   | Z       |
| A                                      | 2887.00           | -998.14  | 998.14  | 2301.73 |
| B                                      | 2745.00           | -979.25  | 979.25  | 2300.66 |
| C                                      | 2587.81           | -987.94  | 987.94  | 2137.95 |
| D                                      | 2495.61           | -1021.11 | 1021.11 | 1893.91 |
| E                                      | 2403.36           | -1044.66 | 1044.66 | 1648.77 |
| F(REF)                                 | 2609.78           | -1085.69 | 1085.69 | 1529.41 |
| G(REF)                                 | 2807.80           | -1100.53 | 1100.53 | 1552.69 |



### VIEW A

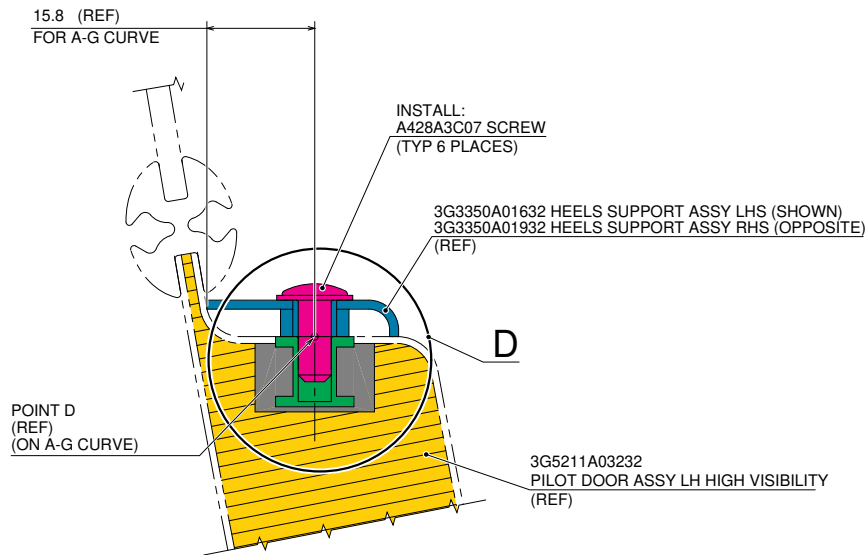
LEFT PILOT DOOR ASSY (SHOWN)  
 RIGHT PILOT DOOR ASSY (OPPOSITE)  
 HEELS SUPPORT ASSY AND SCREWS REMOVED FOR CLARITY

**Figure 2**



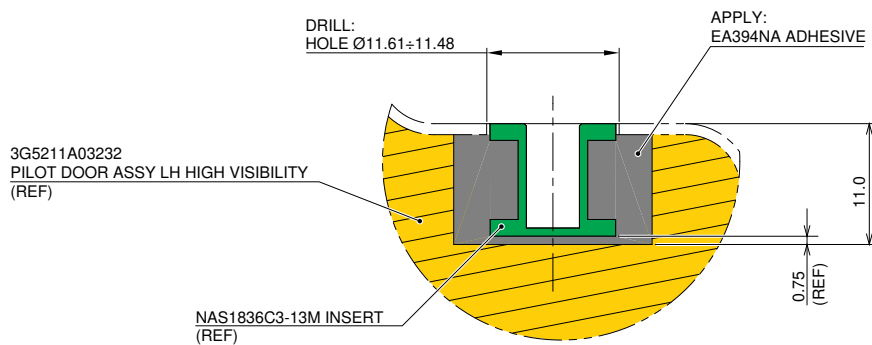
**VIEW B**

LEFT PILOT DOOR ASSY (SHOWN)  
RIGHT PILOT DOOR ASSY (OPPOSITE)



**SECTION C-C**

LEFT PILOT DOOR ASSY (SHOWN)  
RIGHT PILOT DOOR ASSY (OPPOSITE)

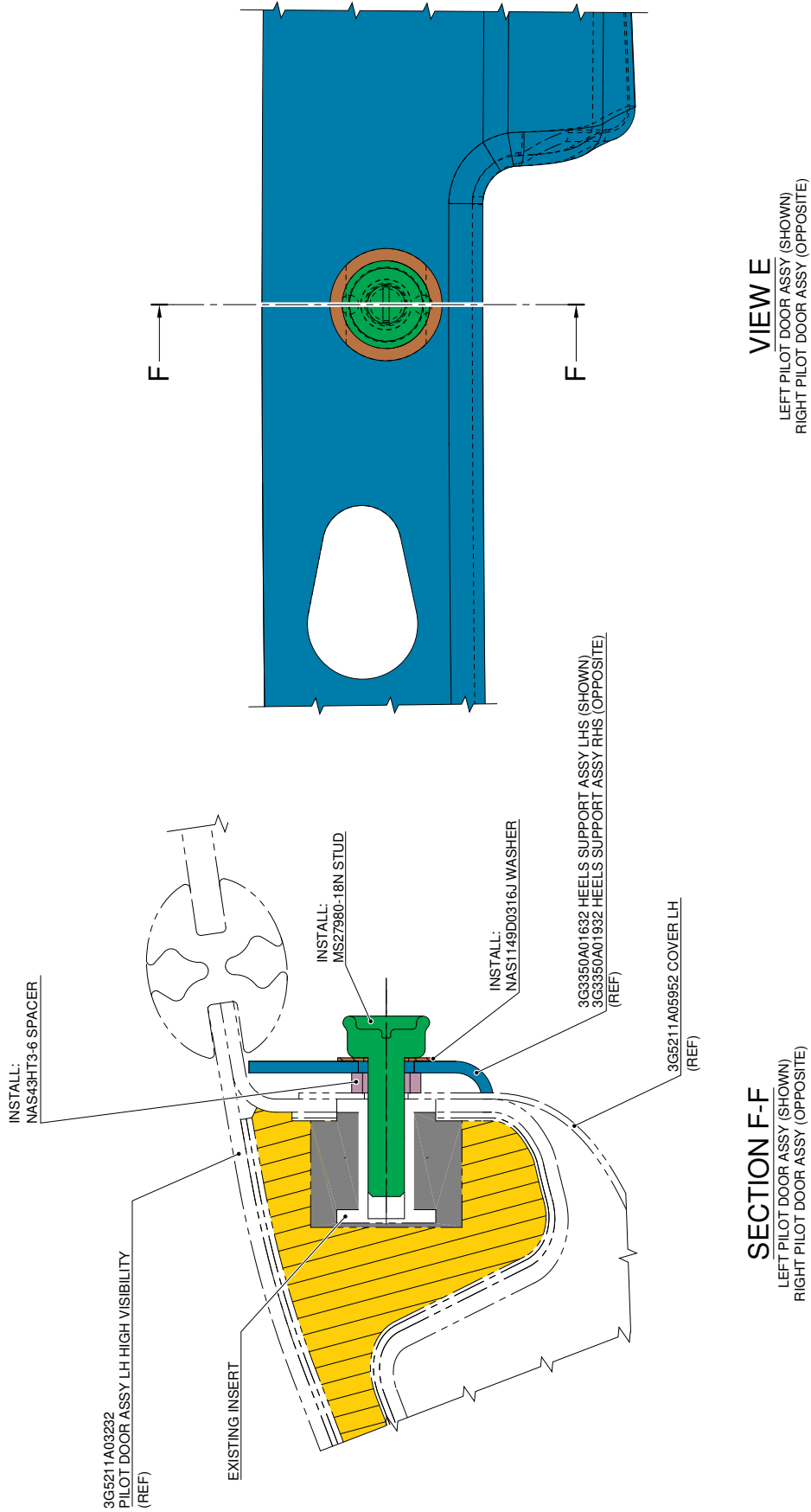


**DETAIL D**

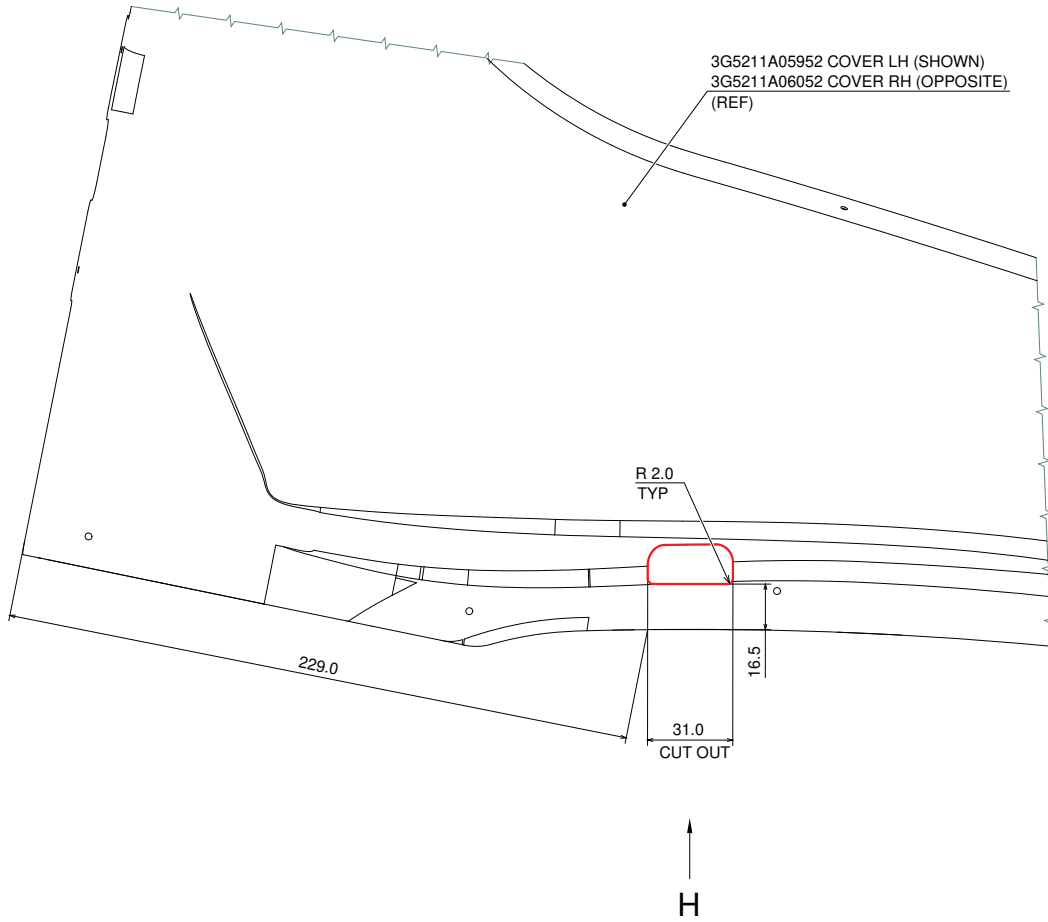
LEFT PILOT DOOR ASSY (SHOWN)  
RIGHT PILOT DOOR ASSY (OPPOSITE)  
3G3350A01632 AND SCREW REMOVED FOR CLARITY  
TYPICAL FOR ALL INSERTS

**Figure 3**



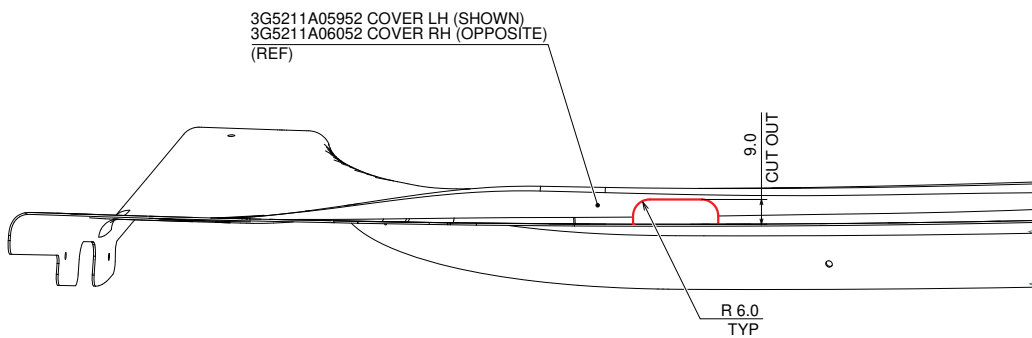


**Figure 4**



**VIEW G**

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

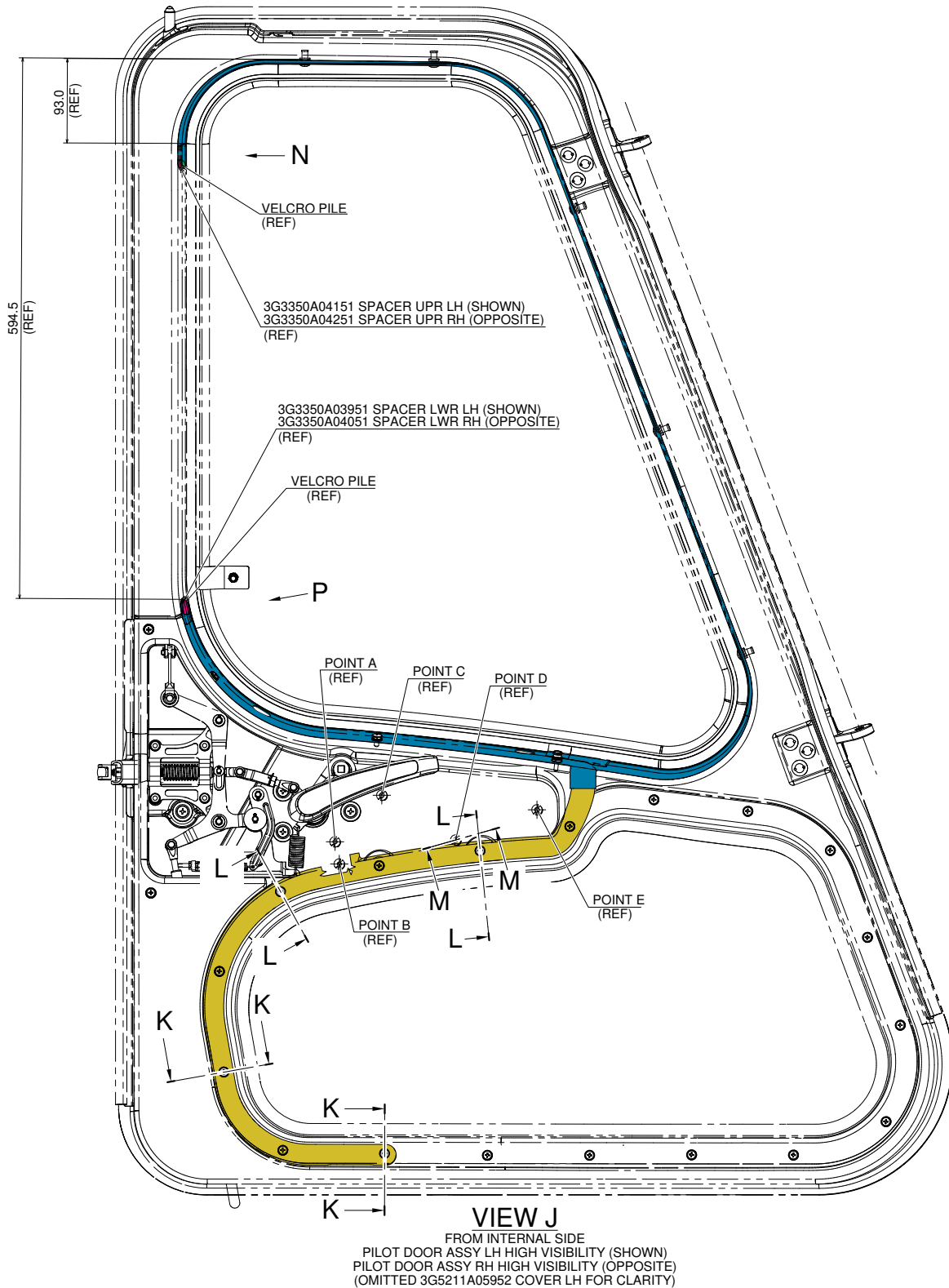


**VIEW H**

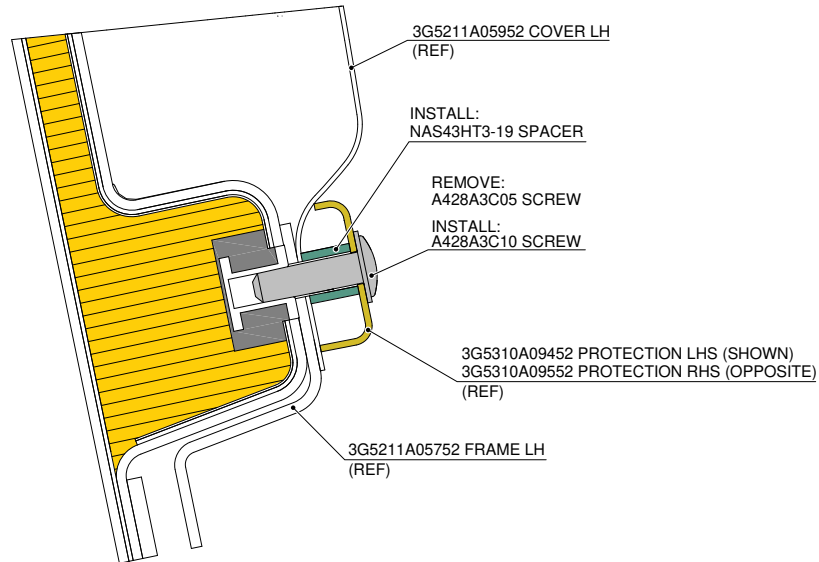
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

**Figure 5**

| POINT<br>(ON INTERNAL<br>SKIN OF DOOR) | COORDINATES (REF) |          |         |         | TYPE           |
|--|-------------------|----------|---------|---------|----------------|
|  | X                 | Y/LHS    | Y/RHS   | Z       |                |
| A                                      | 2853.80           | -1102.50 | 1102.50 | 1441.40 | NAS1836C08-10M |
| B                                      | 2849.10           | -1099.90 | 1099.90 | 1417.00 | NAS1836C08-10M |
| C                                      | 2802.32           | -1105.50 | 1105.50 | 1492.59 | NAS1836C3-10M  |
| D                                      | 2721.01           | -1096.07 | 1096.07 | 1443.42 | NAS1836C3-10M  |
| E                                      | 2631.53           | -1092.84 | 1092.84 | 1476.62 | NAS1836C3-10M  |



**Figure 6**

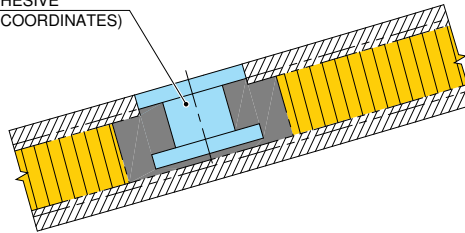


**SECTION L-L**

(TYP 2 PLACES)

LEFT PILOT DOOR ASSY (SHOWN)  
RIGHT PILOT DOOR ASSY (OPPOSITE)

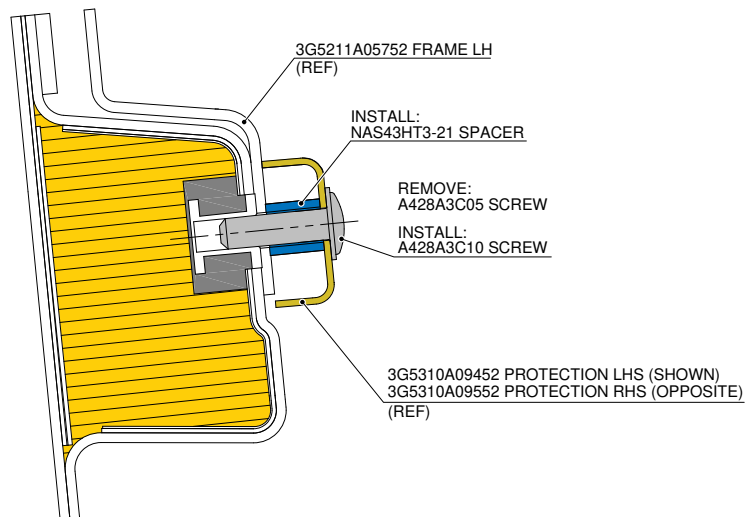
INSTALL:  
NAS1836C3-10M INSERT  
APPLY:  
EA934NA ADHESIVE  
(SEE TABLE COORDINATES)



**SECTION M-M**

(TYP 3 PLACES)

LEFT PILOT DOOR ASSY (SHOWN)  
RIGHT PILOT DOOR ASSY (OPPOSITE)



**SECTION K-K**

(TYP 2 PLACES)

LEFT PILOT DOOR ASSY (SHOWN)  
RIGHT PILOT DOOR ASSY (OPPOSITE)

**Figure 7**

S.B. N°139-681

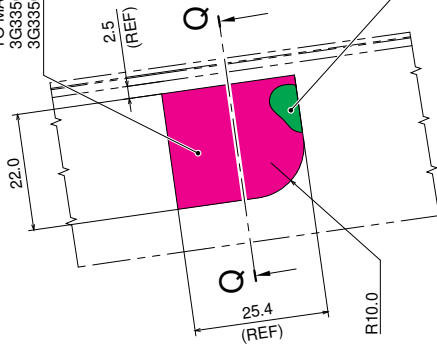
DATE: March 18, 2022

REVISION: A - November 28, 2022

**NOTE:**

⚠️ INSTALL VELCRO USING 3D ADHESION PROMOTER 86A.  
VELCRO PILE CAN BE TRIMMED DURING INSTALLATION.

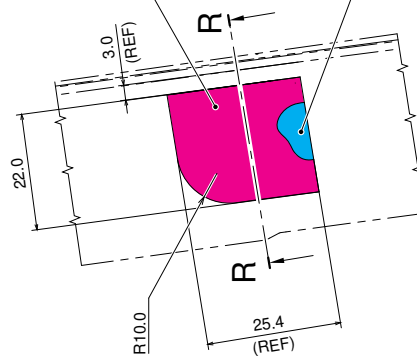
INSTALL:  
HI-PERFORMANCE VELCRO PILE SJ3571 ⚠️  
TO MATCH WITH  
3G3350A01632 HEELS SUPPORT ASSY LHS (SHOWN) (REF)  
3G3350A01932 HEELS SUPPORT ASSY RHS (OPPOSITE) (REF)



INSTALL:  
3G3350A04151 SPACER UPR LH (SHOWN)  
3G3350A04251 SPACER UPR RH (OPPOSITE)  
TO MATCH WITH  
3G3350A01632 HEELS SUPPORT ASSY LHS (SHOWN) (REF)  
3G3350A01932 HEELS SUPPORT ASSY RHS (OPPOSITE) (REF)  
BOND ON PILOT DOOR ASSY WITH EA9309.3NA ADHESIVE

**VIEW N**

LEFT PILOT DOOR ASSY (SHOWN)  
RIGHT PILOT DOOR ASSY (OPPOSITE)  
HEELS SUPPORT ASSY OMITTED FOR CLARITY

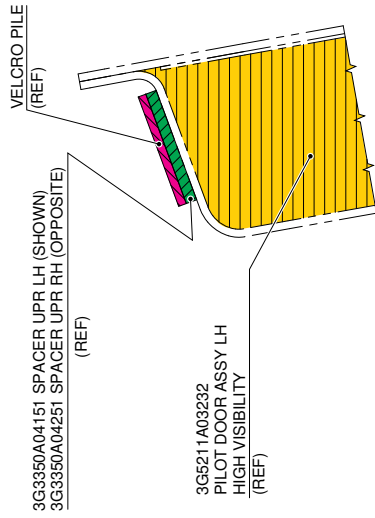


INSTALL:  
HI-PERFORMANCE VELCRO PILE SJ3571 ⚠️  
TO MATCH WITH  
3G3350A01632 HEELS SUPPORT ASSY LHS (SHOWN) (REF)  
3G3350A01932 HEELS SUPPORT ASSY RHS (OPPOSITE) (REF)

INSTALL:  
3G3350A03951 SPACER LWR LH (SHOWN)  
3G3350A04051 SPACER LWR RH (OPPOSITE)  
TO MATCH WITH  
3G3350A01632 HEELS SUPPORT ASSY LHS (SHOWN) (REF)  
3G3350A01932 HEELS SUPPORT ASSY RHS (OPPOSITE) (REF)  
BOND ON PILOT DOOR ASSY WITH EA9309.3NA ADHESIVE

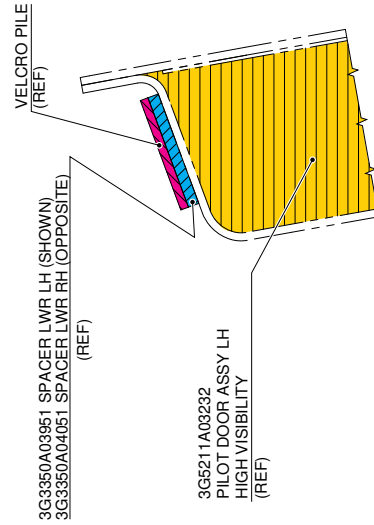
**VIEW P**

LEFT PILOT DOOR ASSY (SHOWN)  
RIGHT PILOT DOOR ASSY (OPPOSITE)  
HEELS SUPPORT ASSY OMITTED FOR CLARITY



**SECTION Q-Q**

LEFT PILOT DOOR ASSY (SHOWN)  
RIGHT PILOT DOOR ASSY (OPPOSITE)  
HEELS SUPPORT ASSY OMITTED FOR CLARITY



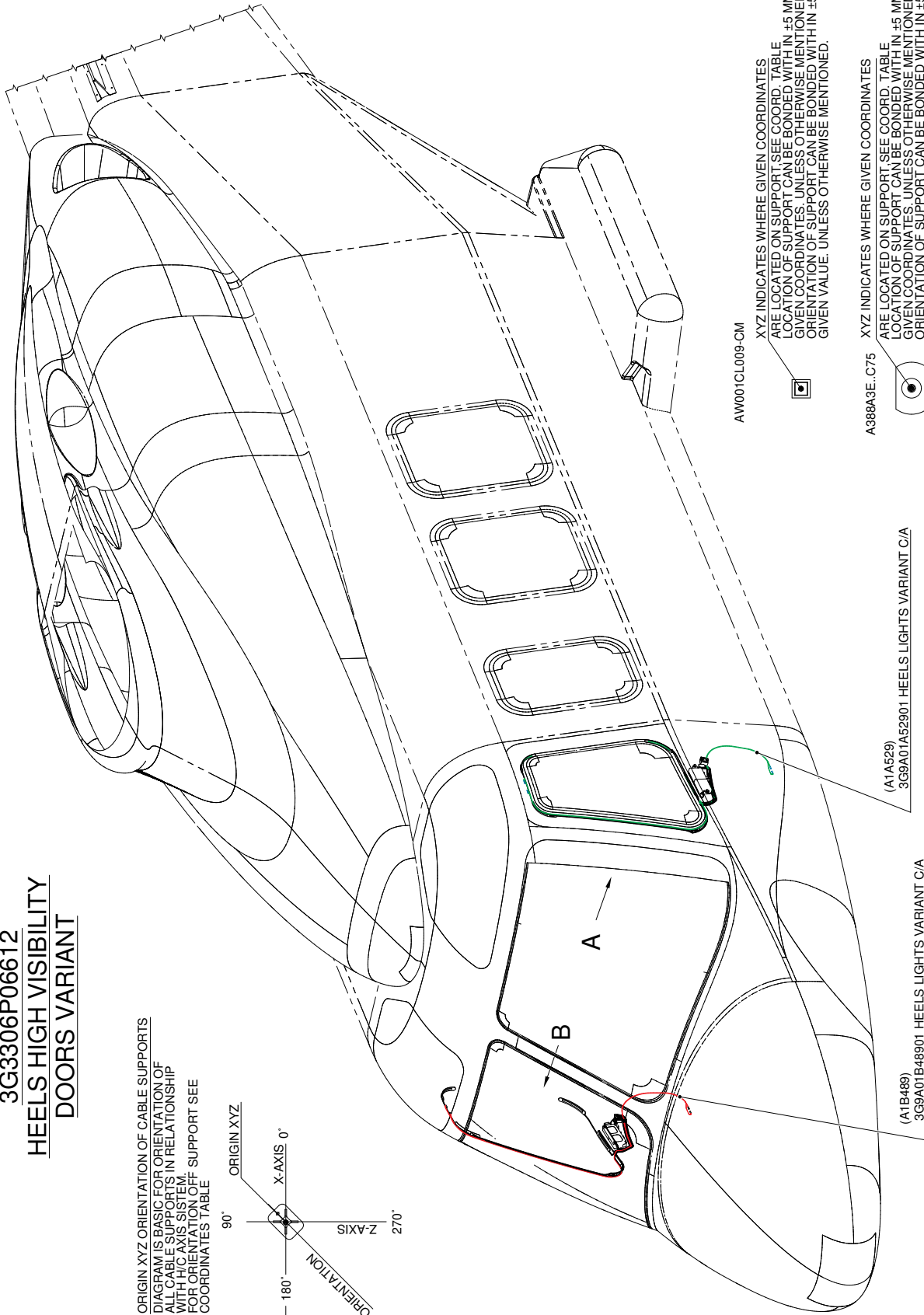
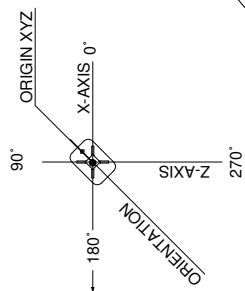
**SECTION R-R**

LEFT PILOT DOOR ASSY (SHOWN)  
RIGHT PILOT DOOR ASSY (OPPOSITE)  
HEELS SUPPORT ASSY OMITTED FOR CLARITY

**Figure 8**

**3G3306P06612**  
**HEELS HIGH VISIBILITY**  
**DOORS VARIANT**

ORIGIN XYZ ORIENTATION OF CABLE SUPPORTS  
DIAGRAM IS BASIC FOR ORIENTATION OF  
ALL CABLE SUPPORTS IN RELATIONSHIP  
WITH H/C AXIS SYSTEM.  
FOR ORIENTATION OFF SUPPORT SEE  
COORDINATES TABLE

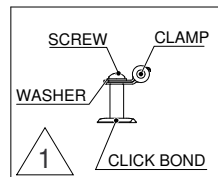
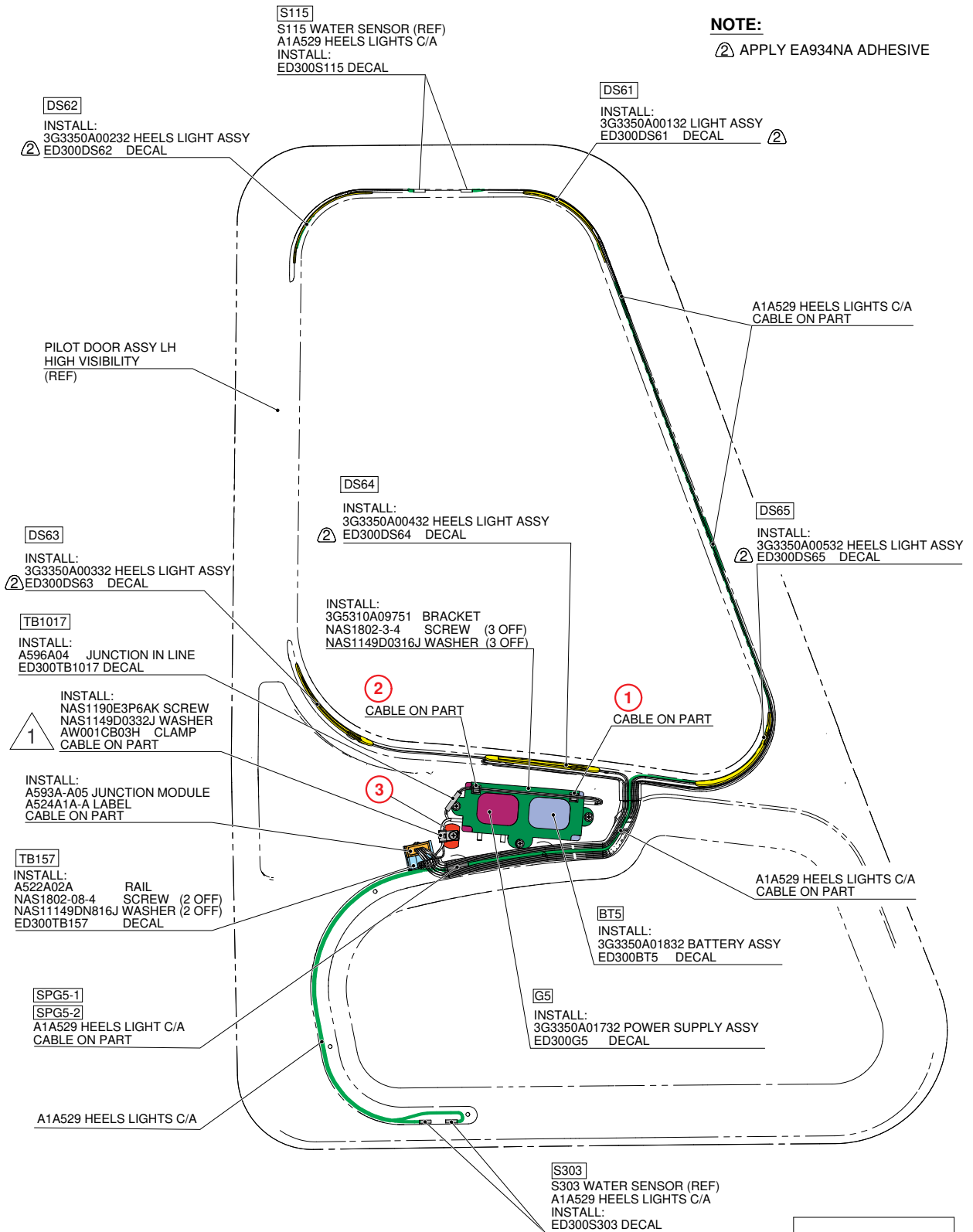


**Figure 9**

S.B. N°139-681

DATE: March 18, 2022

REVISION: A - November 28, 2022

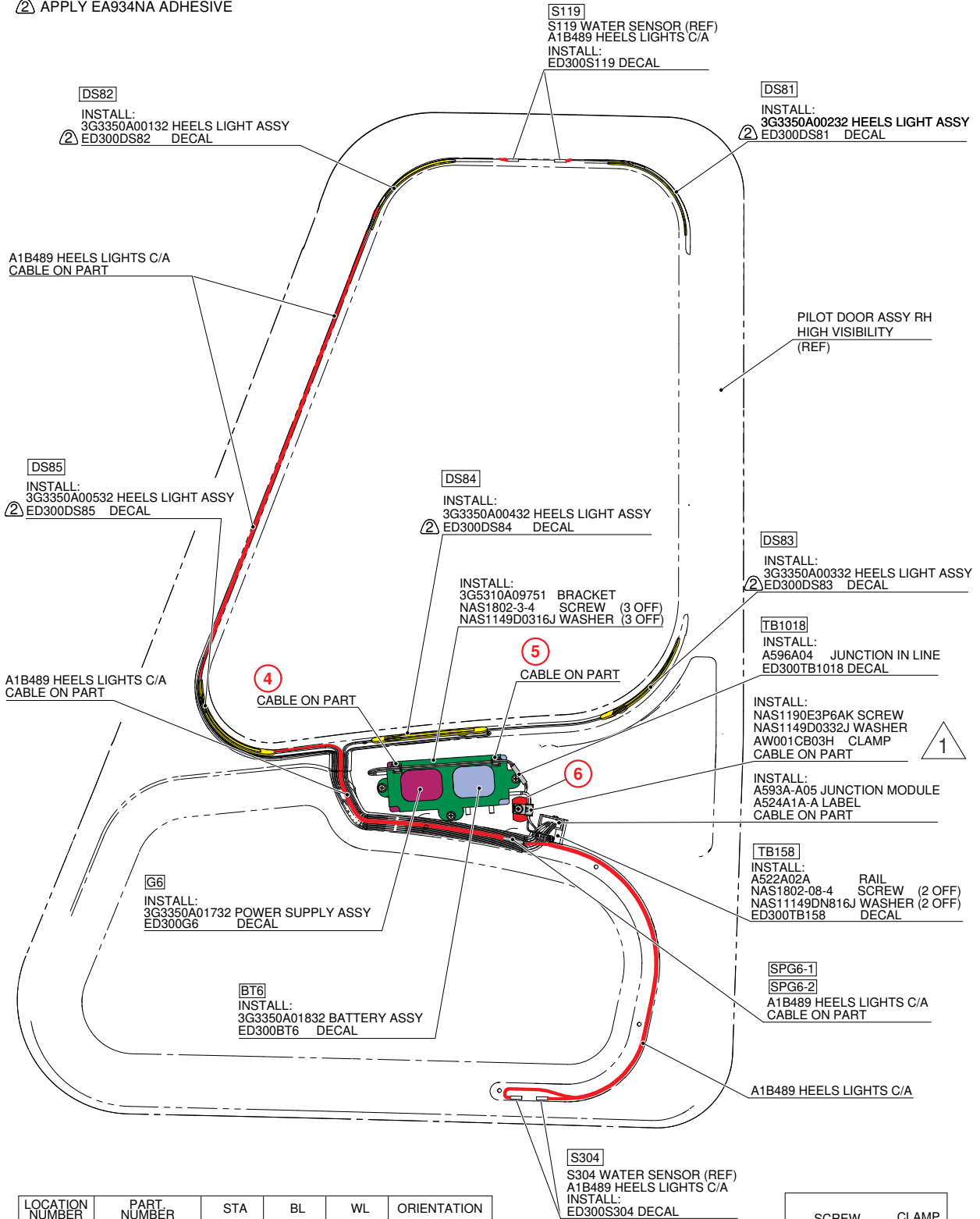


**VIEW A**  
 STRUCTURES AND SYSTEMS ARE PARTIALLY  
 OMITTED FOR BETTER CLARITY PURPOSE

**Figure 10**

**NOTE:**

② APPLY EA934NA ADHESIVE



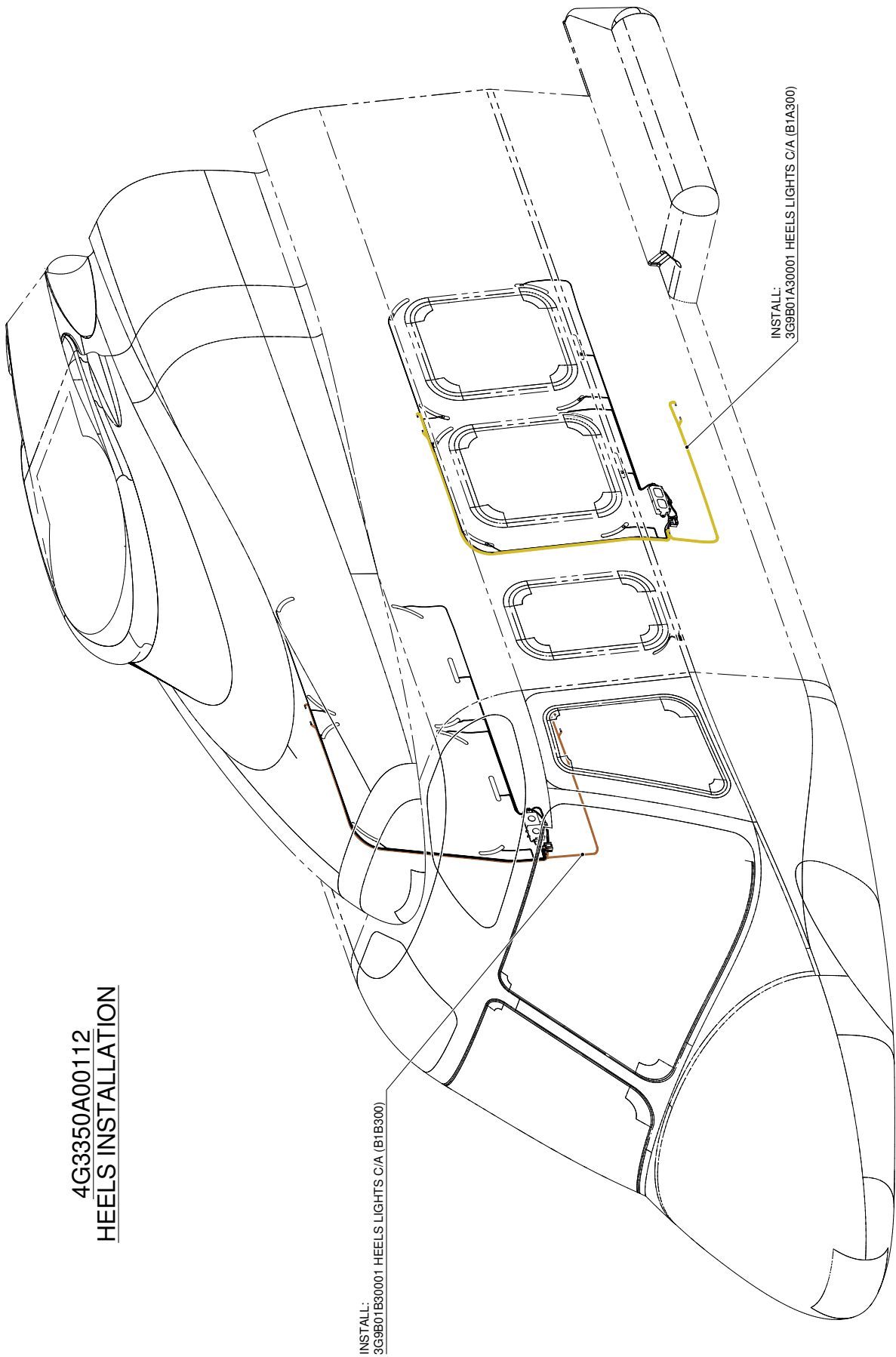
| LOCATION NUMBER | PART NUMBER   | STA  | BL   | WL   | ORIENTATION |
|-----------------|---------------|------|------|------|-------------|
| ④               | AW001CL009-CM | 2653 | 1070 | 1504 | 0°          |
| ⑤               | AW001CL009-CM | 2779 | 1080 | 1516 | 0°          |
| ⑥               | A388A3E14C75  | 2809 | 1104 | 1454 | 90°         |

**VIEW B**

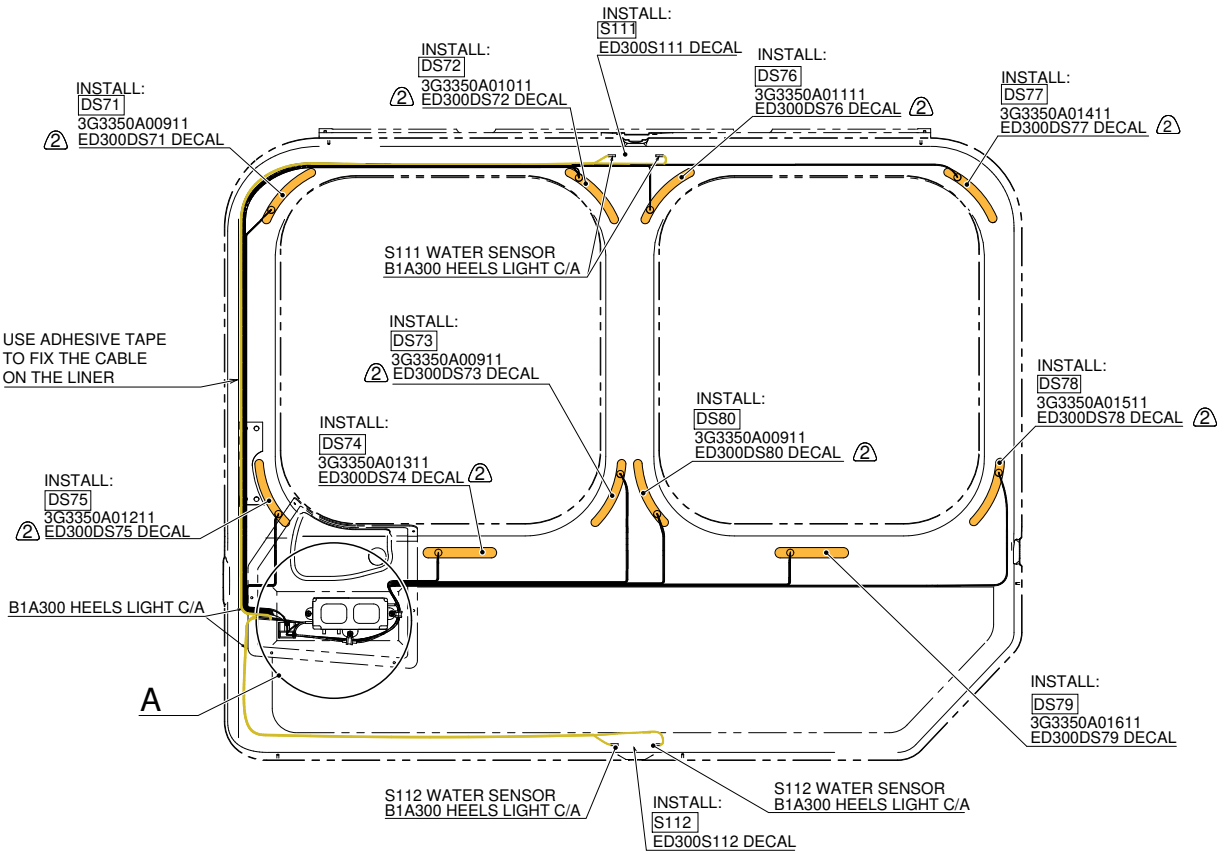
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

**Figure 11**



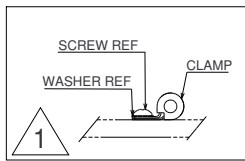


**Figure 12**



**VIEW LOOKING PASSENGER DOOR LH SIDE FROM EXTERNAL SIDE**

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE



[G3]

INSTALL: 3G3350A01711 POWER SUPPLY ASSY  
ED300G3 DECAL

SUPPLIED LIGHT C/AS (REF)

B1A300 HEELS LIGHT C/A

[SPG3-1]

[SPG3-2]

B1A300 HEELS LIGHT C/A  
SUPPLIED POWER SUPPLY C/A

SUPPLIED POWER SUPPLY C/A  
SUPPLIED LIGHT C/AS

[TB265]

INSTALL: A522A02A RAIL  
MS35206-225 SCREW (2 OFF)  
ED300TB265 DECAL

SUPPLIED LIGHT C/A (REF)  
SUPPLIED BATTERY PACK C/A  
SUPPLIED POWER SUPPLY C/A  
INSTALL: AW001CB05H CLAMP

1

INSTALL: 3G3310A09751 BRACKET  
MS35207-259 SCREW (3 OFF)  
NAS1149D0316K WASHER (3 OFF)

SUPPLIED LIGHT C/AS (REF)

SUPPLIED LIGHT C/A  
INSTALL: AW001CB04H CLAMP

1

[BT3]

INSTALL: 3G3350A01811 BATTERY PACK ASSY  
ED300BT3 DECAL

[TB2049]

INSTALL: ED300TB2049 DECAL  
A596A04 JUNCTION IN LINE

**NOTE:**

② APPLY EA934NA ADHESIVE

**DETAIL A**

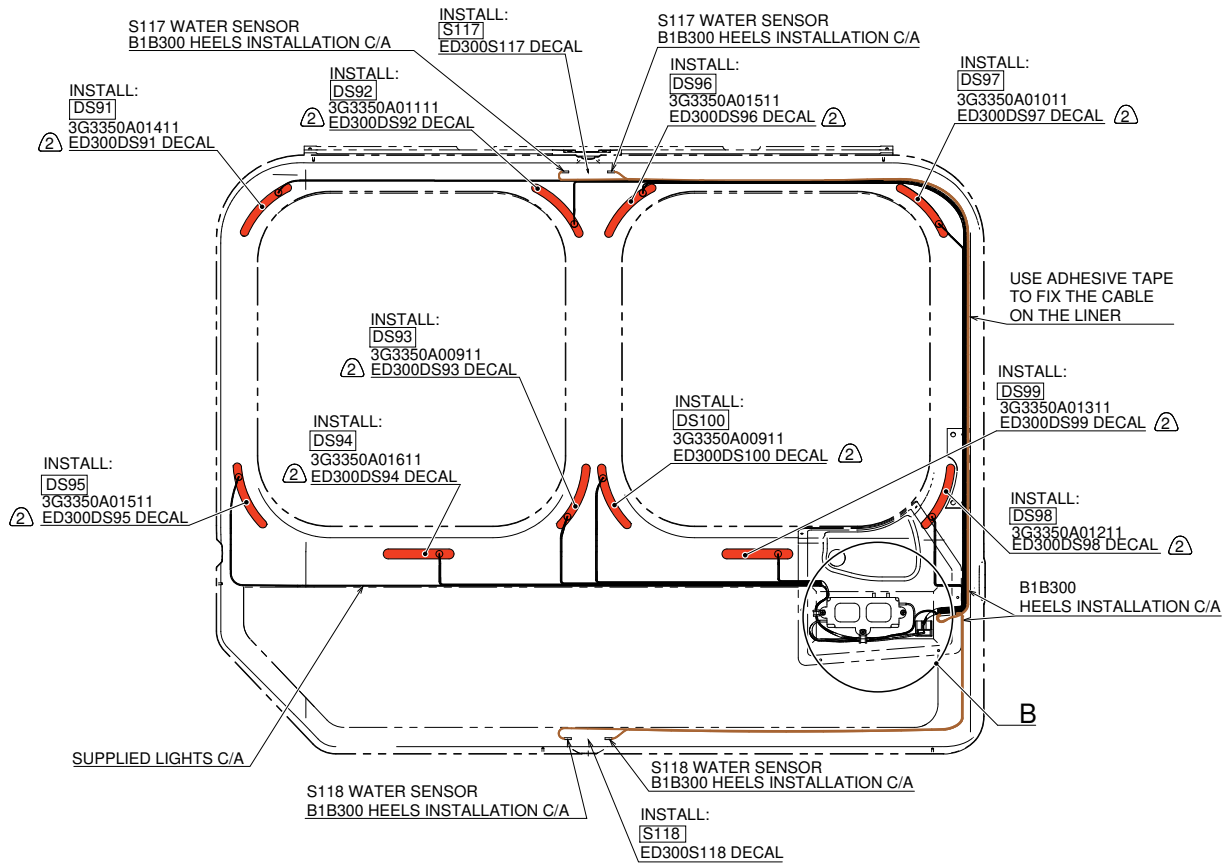
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

**Figure 13**

S.B. N°139-681

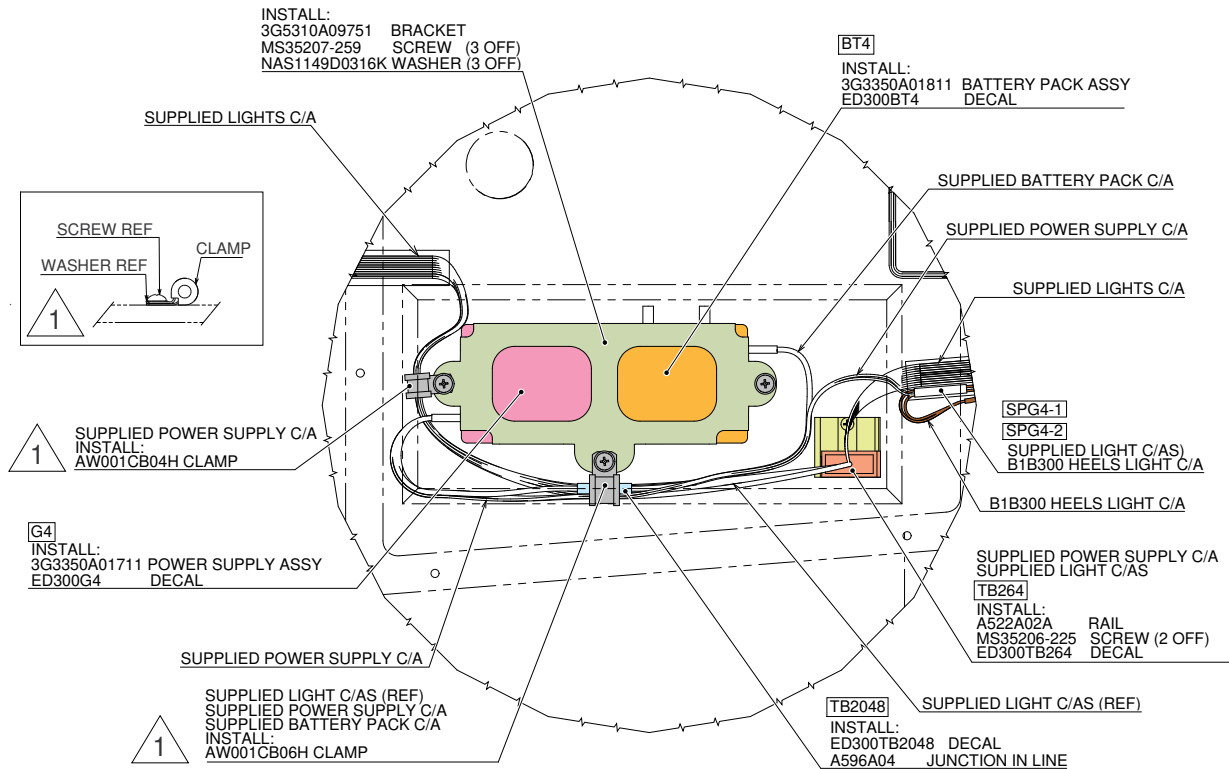
DATE: March 18, 2022

REVISION: A - November 28, 2022



**VIEW LOOKING PASSENGER DOOR RH SIDE FROM EXTERNAL SIDE**

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE



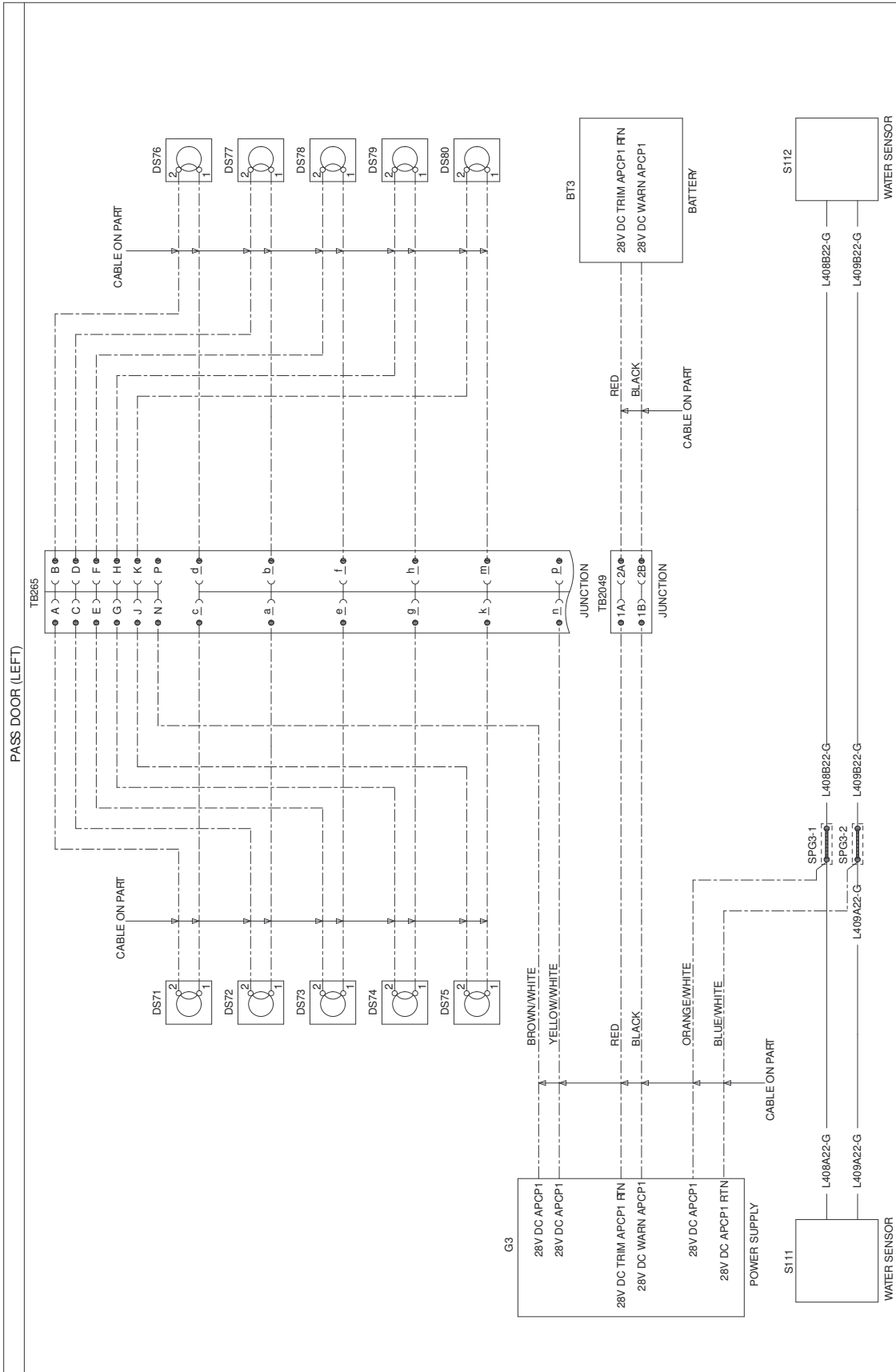
**NOTE:**

② APPLY EA934NA ADHESIVE

**DETAIL B**

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

**Figure 14**



3G3350W00211

**WIRING DIAGRAM HEEL LIGHTS**

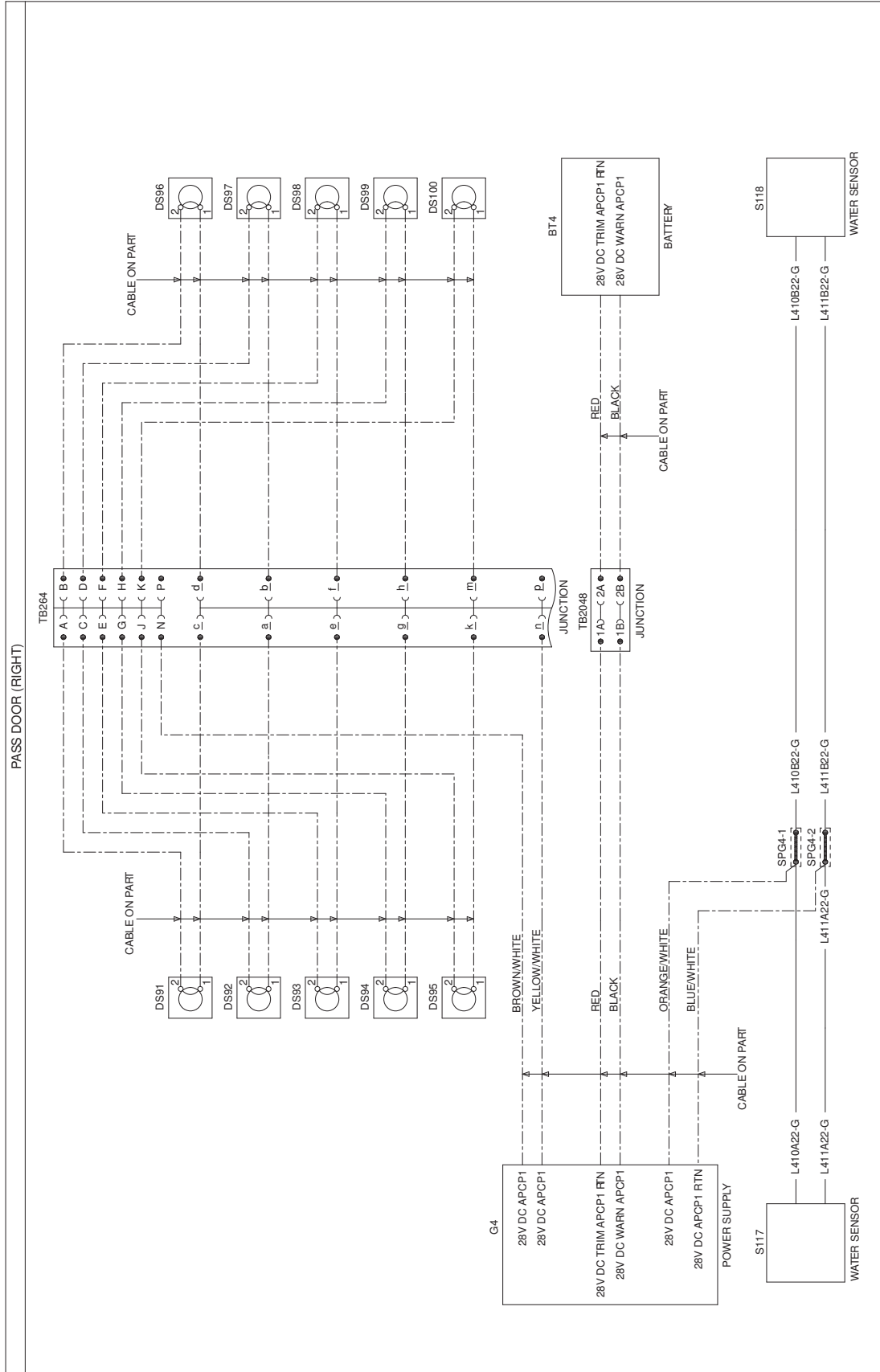
FUNCTIONAL NOTES  
ALL CABLES ARE IN LOOM B1A300 UNLESS SPECIFIED  
ALL CABLES ARE OF TYPE A556A 22 UNLESS SPECIFIED

Figure 15

S.B. N°139-681

DATE: March 18, 2022

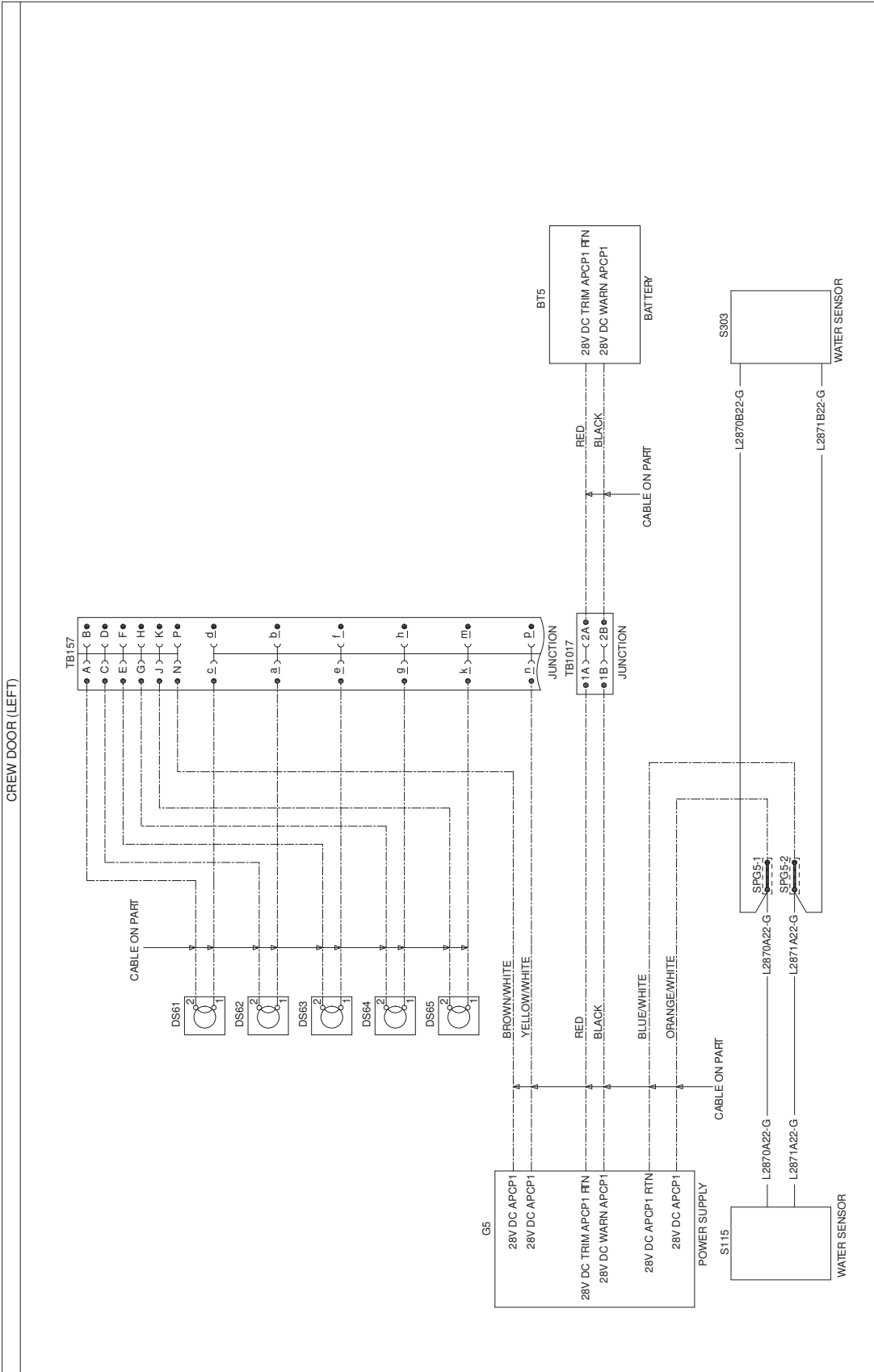
REVISION: A - November 28, 2022



**3G3350W00211**  
**WIRING DIAGRAM HEEL LIGHTS**

**FUNCTIONAL NOTES**  
ALL CABLES ARE IN LOOM B1B300 UNLESS SPECIFIED  
ALL CABLES ARE OF TYPE A556# 22 UNLESS SPECIFIED

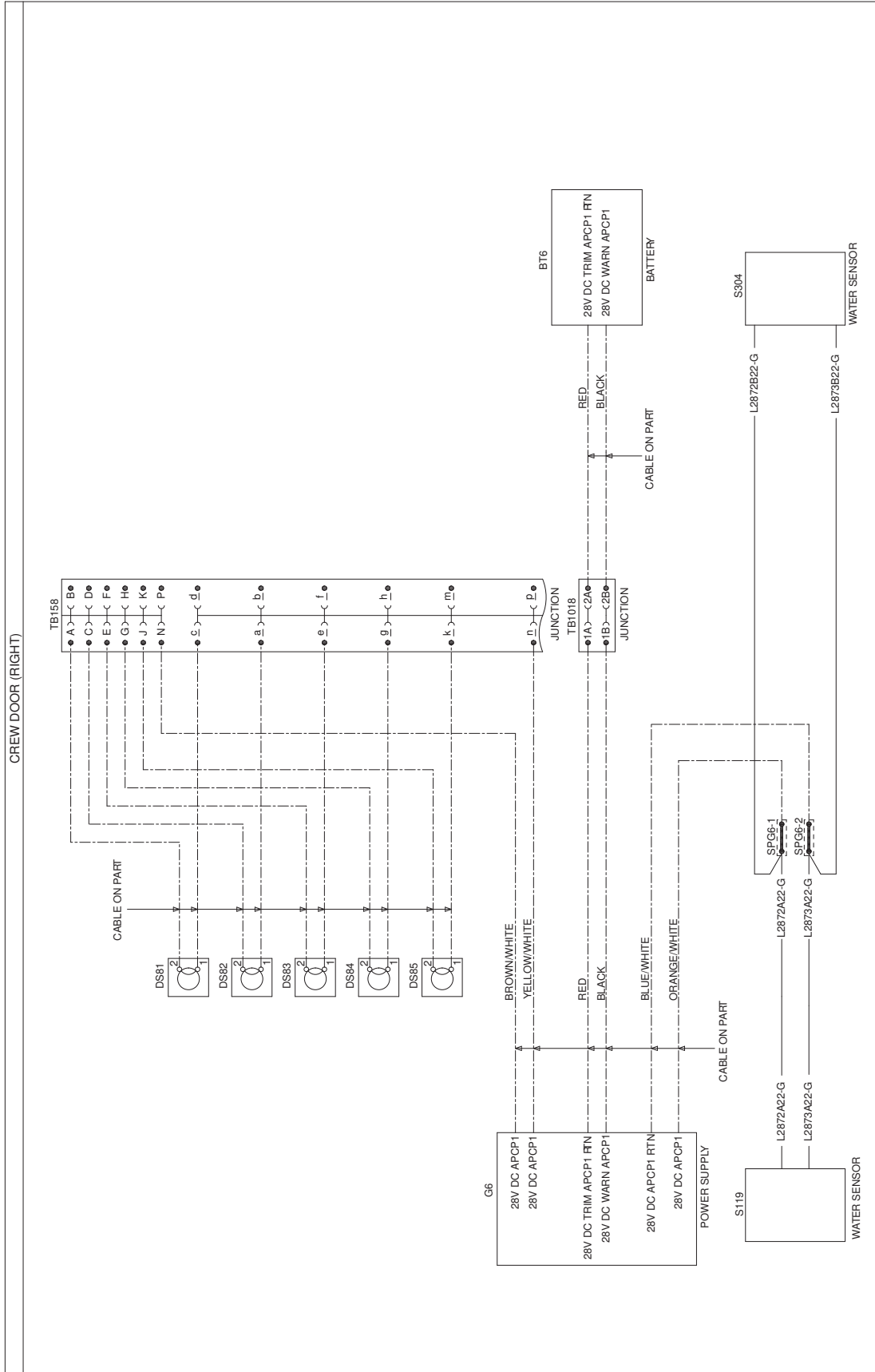
**Figure 16**



3G3350W00711  
WIRING DIAGRAMHEEL LIGHTS VARIANT

FUNCTIONAL NOTES  
ALL CABLES ARE IN LOOMM1A529 UNLESS SPECIFIED  
ALL CABLES ARE OF TYPEA556AT 22 UNLESS SPECIFIED

Figure 17



3G3350W00711  
**WIRING DIAGRAMHEEL LIGHTS VARIANT**

**FUNCTIONAL NOTES**  
ALL CABLES ARE IN LOOM A1B489 UNLESS SPECIFIED  
ALL CABLES ARE OF TYPE A556 AT 22 UNLESS SPECIFIED

**Figure 18**

|  |   |       |
|--|---|-------|
| Please send to the following address:<br><br><b>LEONARDO S.p.A.</b><br><b>CUSTOMER SUPPORT &amp; SERVICES - ITALY</b><br><br><b>PRODUCT SUPPORT ENGINEERING &amp; LICENSES DEPT.</b><br>Via Giovanni Agusta, 520<br>21017 Cascina Costa di Samarate (VA) - ITALY<br>Tel.: +39 0331 225036 Fax: +39 0331 225988 | <b>SERVICE BULLETIN COMPLIANCE FORM</b> | Date: |
|  | Number:                                 |       |
|  | Revision:                               |       |

|                            |                       |
|----------------------------|-----------------------|
| Customer Name and Address: | Telephone:            |
|                            | Fax:                  |
|                            | B.T. Compliance Date: |

| Helicopter Model | S/N | Total Number | Total Hours | T.S.O. |
|------------------|-----|--------------|-------------|--------|
|                  |     |              |             |        |
|                  |     |              |             |        |
|                  |     |              |             |        |
|                  |     |              |             |        |
|                  |     |              |             |        |
|                  |     |              |             |        |
|                  |     |              |             |        |

Remarks:

Information:

We request your cooperation in filling this form, in order to keep out statistical data relevant to aircraft configuration up-to-date. The form should be filled in all its parts and sent to the above address or you can communicate the application also via Technical Bulletin Application Communication Section placed in Leonardo AW Customer Portal - MyCommunications Area. We thank you beforehand for the information given.