Leonardo S.p.A.
Via Giovanni Agusta, 520
21017 Cascina Costa di Samarate (VA) Italy
Tel.: +39 0331 229111 - Fax: +39 0331 229605/222595

AgustaWestland Products

SERVICE BULLETIN

N° 139-678

DATE: July 5, 2022

REV. : /

TITLE

ATA 53 – MIDDLE PANEL RETROMOD INSTALLATION

REVISION LOG

First Issue

1. PLANNING INFORMATION

A. EFFECTIVITY

AW139 helicopters from S/N 31400 to S/N 31882 and from S/N 41300 to S/N 41570, equipped with passenger cabin floor composed by three panels and installing the 1st row central seat/seats FWD facing.

NOTE

Affected seats configurations are shown in Figures 1 thru 6. The number of passenger cabin floor panels can be identified through the number of rivets rows at STA 4803 as shown in Figure 7:

- n°1 rivets row identifies a TWO panels floor;
- n°2 rivets rows identify a THREE panels floor.

B. COMPLIANCE

Part I

Within and not later than fifty (50) flight hours after the issue of this Service Bulletin.

Part II-III

Within and not later than one (1) year after compliance with Part I.

C. CONCURRENT REQUIREMENTS

N.A.

D. REASON

This Service Bulletin is issued in order to provide the necessary instruction on how to perform the retromods P/N 3G5332P01311, P/N 3G5332P01411, P/N 3G5332P01511 and P/N 3G5332P01611.

E. DESCRIPTION

Leonardo Helicopters has developed this Service Bulletin in order to install the middle panel retromods P/N 3G5332P01311, P/N 3G5332P01411, P/N 3G5332P01511 and P/N 3G5332P01611.

Part I of this Service Bulletin provides the instructions to check the height of the seat track installed on the helicopter in order to determine its P/N and, consequently, request the correct rail STA3973 installation.

Part II of this Service Bulletin provides the instructions to:

- Install the middle panel retromod P/N 3G5332P01311 in replacement of the old Middle Floor Panel P/N 3G5332A05832, for helicopters installing the seat track P/N 3G5330A54351.
- Install the middle panel retromod P/N 3G5332P01411 in replacement of the old Middle Floor Panel P/N 3G5332A05834, for helicopters installing the seat track P/N 3G5330A54351.

Part III of this Service Bulletin provides the instructions to:

- Install the middle panel retromod P/N 3G5332P01511, in replacement of the old Middle Floor Panel P/N 3G5332A05832, for helicopters installing the seat track P/N 3G5332A04351.
- Install the middle panel retromod P/N 3G5332P01611, in replacement of the old Middle Floor Panel P/N 3G5332A05834, for helicopters installing the seat track P/N 3G5332A04351.

The application of the four retromods allows to reinstall the seats removed complying with SB 139-633, thus restoring the initial configuration.

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

G. MANPOWER

To comply with this Service Bulletin the following MMH are deemed necessary:

Part I: approximately two (2);

Part II: approximately forty (40);

Part III: approximately forty (40);

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

H. WEIGHT AND BALANCE

PART I

N.A.

PART II

Middle panel retromod P/N 3G5332P01311:

WEIGHT (Kg)	3.5	
	ARM (mm)	**MOMENT (Kgmm)**
LONGITUDINAL BALANCE	4344	15204
LATERAL BALANCE	0	0

Middle panel retromod P/N 3G5332P01411:

WEIGHT (Kg)	2.97	
	ARM (mm)	**MOMENT (Kgmm)**
LONGITUDINAL BALANCE	4450	13216.5
LATERAL BALANCE	0	0

PART III

Middle panel retromod P/N 3G5332P01511:

WEIGHT (Kg)	1.87	
	ARM (mm)	**MOMENT (Kgmm)**
LONGITUDINAL BALANCE	4450	8321.5
LATERAL BALANCE	0	0

Middle panel retromod P/N 3G5332P01611:

WEIGHT (Kg)	0.9	
	ARM (mm)	**MOMENT (Kgmm)**
LONGITUDINAL BALANCE	4344	3909.6
LATERAL BALANCE	0	0

I. REFERENCES

1) PUBLICATIONS

Following Data Modules refer to AMP:

DATA MODULE		**DESCRIPTION**	**PART**
DM01	39-A-00-20-00-00A-120A-A	Helicopter on ground for a safe maintenance.	I, II, III
DM02	39-A-06-41-00-00A-010A-A	Access doors and panels general data.	II, III

2) ACRONYMS & ABBREVIATIONS

AMDI	Aircraft Material Data Information
AMP	Aircraft Maintenance Publication
DM	Data Module
DOA	Design Organization Approval
EASA	European Aviation Safety Agency
LH	Leonardo Helicopters
MMH	Maintenance Man Hours
N.A.	Not Applicable
P/N	Part Number
S/N	Serial Number

3) ANNEX

Annex A SB application form – Inspection Report

J. PUBLICATIONS AFFECTED

N.A.

K. SOFTWARE ACCOMPLISHMENT SUMMARY

N.A.

2. MATERIAL INFORMATION

A. REQUIRED MATERIALS

1) PARTS

PART I

N.A.

PART II

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
1	**3G5332P01311 or 3G5332P01411**		**MIDDLE PANEL RETRO-MOD**	**REF**	**.**		
2	**3G5330A64714**		**Rail STA3973 instl**	**REF**	**..**	**(1)**	
3	3G5330A35451		Plate	2	…		139-678L1
4	3G5330A35551		Shim	2	…		139-678L1
5	3G5330A54352		Seat track	1	…		139-678L1
6	3G5332A05835	3G5332A05835M01	Middle floor panel assy reinforced	1	…		139-678L1
7	3G5332A08933		Middle floor bonded panel assy	1	….		
8	AW007TE-40-124		Insert	28	….		139-678L1
9	3G5332A19851		Doubler	2	…		139-678L1
10	3G5332A19951		Doubler	1	…		139-678L1
11	AW007TE-40-125		Insert	24	…		139-678L1
12	MS20426AD3-4		Rivet	0.1 kg	…		139-678L1
13	MS21071L4		Anchor nut	2	…		139-678L1
14	NAS1974C7T		Bolt	2	…		139-678L1
15	MS24694-S101		Screw	24	…		139-678L1
16	NAS1097AD4-7A		Rivet	2	…		139-678L1
17	NAS623-3-3		Screw	34	…		139-678L1
18	NAS623-3-4		Screw	4	…		139-678L1
19	NAS1149D0316K		Washer	38	…		139-678L1

PART III

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
20	**3G5332P01511 or 3G5332P01611**		**MIDDLE PANEL RETRO-MOD**	**REF**	**.**		
21	**3G5330A64715**		**Rail STA3973 instl**	**REF**	**..**	**(2)**	
22	3G5330A35451		Plate	2	…		139-678L2
23	3G5330A35551		Shim	2	…		139-678L2
24	3G5332A04355		Seat track	1	…		139-678L2
25	3G5332A05835	3G5332A05835M01	Middle floor panel assy reinforced	1	…		139-678L2
26	3G5332A08933		Middle floor bonded panel assy	1	….		
27	AW007TE-40-124		Insert	28	….		139-678L2
28	3G5332A19851		Doubler	2	…		139-678L2
29	3G5332A19951		Doubler	1	…		139-678L2
30	AW007TE-40-125		Insert	24	…		139-678L2
31	MS20426AD3-4		Rivet	0.1 kg	…		139-678L2

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
32	MS21071L4		Anchor nut	2	…		139-678L2
33	NAS1974C7T		Bolt	2	…		139-678L2
34	MS24694-S100		Screw	24	…		139-678L2
35	NAS1097AD4-7A		Rivet	2	…		139-678L2
36	NAS623-3-3		Screw	34	…		139-678L2
37	NAS623-3-4		Screw	4	…		139-678L2
38	NAS1149D0316K		Washer	38	…		139-678L2

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

2) CONSUMABLES

#	SPEC./LHD CODE NUMBER	DESCRIPTION	Q.TY	NOTE	PART
39	199-05-002 Type I, Class 2	Hysol EA9309NA (C231)	AR	(3)	II, III
40	199-05-002 Type II, Class 2	EA 934NA AERO (C397)	AR	(3)	II, III
41	AWMS28-002, Type I, Class 1, Grade A or B	Aerowave 2003 (C596)	AR	(3)	II, III
42	MIL-PRF-85285 Type I Code no. 900003318	Polyurethane paint colour grey 36231 (FED-STD-595)	AR	(3)	II, III

Refer also to AMDI for the consumable materials required to comply with the AMP DM 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
139-678L1	1	(1)	Part II
139-678L2	1	(2)	Part III

NOTE

(1) Item to be ordered only if the seat track P/N 3G5330A54351 is installed on the helicopter. Customers must contact Product Support Engineering (engineering.support.lhd@leonardo.com) to request the rail STA3973 installation at least three months in advance from the scheduled application of Part II.

(2) Item to be ordered only if the seat track P/N 3G5332A04351 is installed on the helicopter. Customers must contact Product Support Engineering (engineering.support.lhd@leonardo.com) to request the rail STA3973 installation at least three months in advance from the scheduled application of Part III.

(3) Item to be procured as local supply.

B. SPECIAL TOOLS

N.A.

C. INDUSTRY SUPPORT INFORMATION

Owners/Operators who comply with the instructions of this Service Bulletin no later than the applicable date in the “Compliance” section will be eligible to receive “Required Materials” on free of charge basis.

Consumables, Special Tools, and materials required by AMP DM recalled in this SB are not included in the aforementioned policy.

NOTE: Customers who fail to comply with the instructions in this Service Bulletin before the compliance date are not eligible for the aforementioned special policy.

Customers must contact Product Support Engineering (engineering.support.lhd@leonardo.com) to request the correct rail STA3973 installation at least three months in advance from the scheduled application of Part II or Part III.

Please Issue relevant MMIR form to your Warranty Administration Dpt.

NOTE: Filling the form in Annex A with the evidence of the inspection outcome is mandatory; in case the MMIR is not accompanied by this document, it will be rejected.

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) Exercise extreme care during drilling operations to prevent instruments, cables and hoses damage.

c) 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.

d) Let adhesive cure at room temperature for at least 24 hours unless otherwise specified.

e) All lengths are in mm.

PART I

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.

NOTE

Customer must contact Product Support Engineering (engineering.support.lhd@leonardo.com) at least 3 months in advance of embodiment date of Part II or Part III of this Service Bulletin to order the proper rail STA3973 installation.

2. With reference to Figure 17 Section A-A and Section B-B, check the seat track height to find out which seat track is installed on the middle floor panel P/N 3G5332A05834 or P/N 3G5332A05832:

   2.1 if the seat track P/N 3G5330A54351 is installed on the helicopter order the rail STA3973 installation P/N 3G5330A64714;

   2.2 if the seat track P/N 3G5332A04351 is installed on the helicopter order the rail STA3973 installation P/N 3G5330A64715.

   2.3 Record the P/N of the seat track installed and the relevant information in the report in ANNEX A.

3. Return the helicopter to flight configuration and record for compliance with Part I of this Service Bulletin on the helicopter logbook.
4. Send the attached compliance form and report in ANNEX A to the following mail box:

   engineering.support.lhd@leonardo.com

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

PART II

NOTE

Perform Part II only if the seat track P/N 3G5330A54351 is installed on the helicopter.

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 8, 9, 12, 13 and 16 remove all external panels, internal panels and internal liners as required to gain access to the area affected by the installation.
3. In accordance with AMP Section 25 applicable DM, remove and retain for later reuse the 1st row central seat/seats.

NOTE

Perform step 4 only if Middle Floor Panel P/N 3G5332A05832 is installed on the helicopter.

4. With reference to Figures 8, 12, 13 and 16, perform the retromod P/N 3G5332P01311 as described in the following procedure:

   4.1 With reference to Figure 8 View A and Figure 12 View A, remove the screws P/N MS27039-4-10, the screws P/N MS27039-4-10, the washers P/N NAS1149D0416K and the middle floor panel P/N 3G5332A05832 from the cabin structure.

NOTE

If necessary, trim the panel assy reinforced P/N 3G5332A05835 to ensure proper installation on the cabin structure.

   4.2 With reference to Figure 16, rework the reinforced central panel P/N 3G5332A05835 as follows:

      4.2.1 With reference to Figure 16 Detail A and Section B-B, drill n°28 holes Ø9.80÷9.95 thru the middle floor bonded panel assy P/N 3G5332A08933 in accordance with the dimensions shown.

      4.2.2 With reference to Figure 16 Section B-B, install n°28 inserts P/N AW007TE-40-124 on the middle floor bonded panel assy P/N 3G5332A08933 by means of adhesive EA 934NA AERO (C397). Apply a coat of grey paint to restore the treated surface.

   4.3 With reference to Figure 13 Detail B, install n°1 doubler

P/N 3G5332A19951 and n°2 doublers P/N 3G5332A19851 on the middle floor panel assy reinforced P/N 3G5332A05835 by means of adhesive Hysol EA9309NA (C231). Apply epoxy primer Aerowave 2003 (C596).

4.4 With reference to Figure 13 Detail B and Section C-C, drill n°24 holes Ø9.80÷9.85 thru the doubler P/N 3G5332A19951, the doublers P/N 3G5332A19851 and the middle floor panel assy reinforced P/N 3G5332A05835 in accordance with the dimensions shown. Countersink panel and structure.

4.5 With reference to Figure 13 Detail B and Section C-C, install n°24 inserts P/N AW007TE-40-125 on doubler P/N 3G5332A19951 and doublers P/N 3G5332A19851 by means of adhesive EA 934NA AERO (C397).

4.6 With reference to Figure 12 Detail D and Figure 13 Section E-E, temporary locate the shims P/N 3G5330A35551 and the plates P/N 3G5330A35451 on the middle floor panel assy reinforced P/N 3G5332A05835.

4.7 With reference to Figure 12 Detail D and Figure 13 Section E-E, drill n°2 rivet holes thru the shims P/N 3G5330A35551, the plates P/N 3G5330A35451 and the middle floor panel assy reinforced P/N 3G5332A05835 in accordance with dimensions shown.

4.8 With reference to Figure 12 Detail D and Figure 13 Section E-E, install n°2 shims P/N 3G5330A35551 and n°2 plates P/N 3G5330A35451 on the middle floor panel assy reinforced P/N 3G5332A05835 by means of n°2 rivets P/N NAS1097AD4-7A and adhesive Hysol EA9309NA (C231).

4.9 With reference to Figure 12 Detail D and Figure 13 Section E-E, drill n°2 holes Ø6.71÷6.86 thru the shims P/N 3G5330A35551, the plates P/N 3G5330A35451 and the middle floor panel assy reinforced P/N 3G5332A05835 in accordance with dimensions shown.

4.10 With reference to Figure 12 Detail D and Figure 13 Section E-E, install n°2 anchor nuts P/N MS21071L4 on plates P/N 3G5330A35451 by means of n°4 rivets P/N MS20426AD3-4.

4.11 With reference to Figure 12 View A and Detail D, install the seat track P/N 3G5330A54352 on the doubler P/N 3G5332A19951 and doublers P/N 3G5332A19851 by means of n°24 screws P/N MS24694-S101 and n°2 bolts P/N NAS1974C7T.

4.12 With reference to Figure 12 View A, install the middle floor panel assy reinforced P/N 3G5332A05835 on the cabin structure by means of n°34 screws

P/N NAS623-3-3, n°4 screws P/N NAS623-3-4 and n°38 washers P/N NAS1149D0316K.

NOTE

Perform step 5 only if Middle Floor Panel P/N 3G5332A05834 is installed on the helicopter.

5. With reference to Figures 9, 12, 13 and 16 perform the retromod P/N 3G5332P01411 as described in the following procedure:
   5.1 With reference to Figure 9 View A and Figure 12 View A, remove the screws P/N MS27039-4-10, the screws P/N MS27039-4-10, the washers P/N NAS1149D0416K and the middle floor panel P/N 3G5332A05834 from the cabin structure.
   5.2 Perform steps from 4.2 thru 4.12.
6. In accordance with AMP Section 25 applicable DM, reinstall the 1st row central seat/seats previously removed.
7. In accordance with weight and balance changes, update the Chart A (see Rotorcraft Flight Manual, Part II, section 6).
8. Return the helicopter to flight configuration and record for compliance with Part II of this Service Bulletin on the helicopter logbook.
9. Send the attached compliance form to the following mail box:

   engineering.support.lhd@leonardo.com

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

PART III

NOTE

Perform Part III only if the seat track P/N 3G5332A04351 is installed on the helicopter.

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 10, 11, 14, 15 and 16, remove all external panels, internal panels and internal liners as required to gain access to the area affected by the installation.
3. In accordance with AMP Section 25 applicable DM, remove and retain for later reuse the 1st row central seat/seats.

NOTE

Perform step 4 only if Middle Floor Panel P/N 3G5332A05832 is installed on the helicopter.

4. With reference to Figures 10, 14, 15 and 16, perform the retromod P/N 3G5332P01511 as described in the following procedure:

   4.1 With reference to Figure 10 View A and Figure 14 View A, remove the screws P/N MS27039-4-10, the screws P/N MS27039-4-10, the washers P/N NAS1149D0416K and the middle floor panel P/N 3G5332A05832 from the cabin structure.

NOTE

If necessary, trim the panel assy reinforced P/N 3G5332A05835 to ensure proper installation on the cabin structure.

   4.2 With reference to Figure 16, rework the reinforced central panel P/N 3G5332A05835 as follows:

      4.2.1 With reference to Figure 16 Detail A and Section B-B, drill n°28 holes Ø9.80÷9.95 thru the middle floor bonded panel assy P/N 3G5332A08933 in accordance with the dimensions shown.

      4.2.2 With reference to Figure 16 Section B-B, install n°28 inserts P/N AW007TE-40-124 on the middle floor bonded panel assy P/N 3G5332A08933 by means of adhesive EA 934NA AERO (C397). Apply a coat of grey paint to restore the treated surface.

   4.3 With reference to Figure 15 Detail B, install n°1 doubler

P/N 3G5332A19951 and n°2 doublers P/N 3G5332A19851 on the middle floor panel assy reinforced P/N 3G5332A05835 by means of adhesive Hysol EA9309NA (C231). Apply epoxy primer Aerowave 2003 (C596).

4.4 With reference to Figure 15 Detail B and Section C-C, drill n°24 holes Ø9.80÷9.85 thru the doubler P/N 3G5332A19951, the doublers P/N 3G5332A19851 and the middle floor panel assy reinforced P/N 3G5332A05835 in accordance with the dimensions shown. Countersink panel and structure.

4.5 With reference to Figure 15 Detail B and Section C-C, install n°24 inserts P/N AW007TE-40-125 on doubler P/N 3G5332A19951 and doublers P/N 3G5332A19851 by means of adhesive EA 934NA AERO (C397).

4.6 With reference to Figure 14 Detail D and Figure 15 Section E-E, temporary locate the shims P/N 3G5330A35551 and the plates P/N 3G5330A35451 on the middle floor panel assy reinforced P/N 3G5332A05835.

4.7 With reference to Figure 15 Detail D and Section E-E, drill n°2 rivet holes thru the shims P/N 3G5330A35551, the plates P/N 3G5330A35451 and the middle floor panel assy reinforced P/N 3G5332A05835 in accordance with dimensions shown.

4.8 With reference to Figure 14 Detail D and Figure 15 Section E-E, install n°2 shims P/N 3G5330A35551 and the n°2 plates P/N 3G5330A35451 on the middle floor panel assy reinforced P/N 3G5332A05835 by means of n°2 rivets P/N NAS1097AD4-7A and adhesive Hysol EA9309NA (C231).

4.9 With reference to Figure 14 Detail D and Figure 15 Section E-E, drill n°2 holes Ø6.70÷6.85 thru the shims P/N 3G5330A35551, the plates P/N 3G5330A35451 and the middle floor panel assy reinforced P/N 3G5332A05835 in accordance with dimensions shown.

4.10 With reference to Figure 14 Detail D and Figure 15 Section E-E, install n°2 anchor nuts P/N MS21071L4 on plates P/N 3G5330A35451 by means of n°4 rivets P/N MS20426AD3-4.

4.11 With reference to Figure 14 View A and Detail D, install the seat track P/N 3G5332A04355 by means of n°24 screws P/N MS24694-S100 and n°2 bolts P/N NAS1974C7T.

4.12 With reference to Figure 14 View A, install the middle floor panel assy reinforced P/N 3G5332A05835 on the cabin structure by means of n°34 screws P/N NAS623-3-3, n°4 screws P/N NAS623-3-4 and n°38 washers P/N NAS1149D0316K.

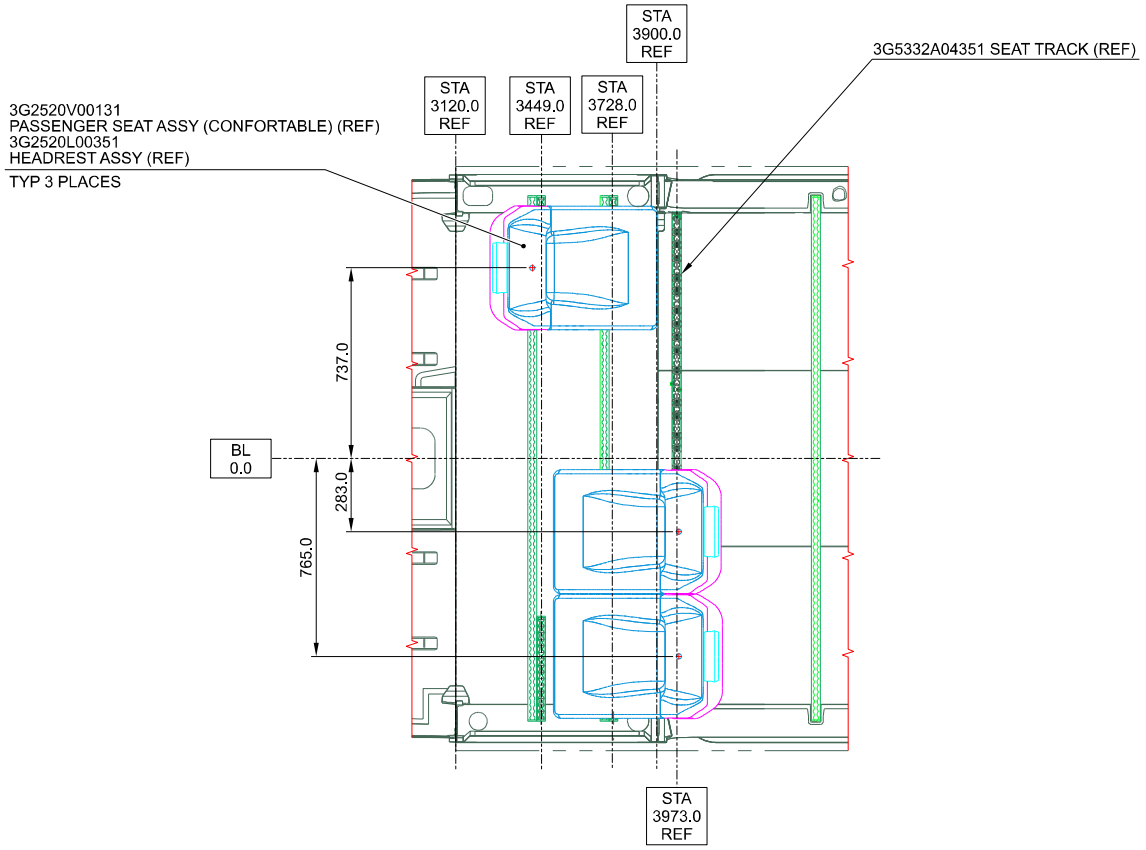
NOTE

Perform step 5 only if Middle Floor Panel P/N 3G5332A05834 is installed on the helicopter.

5. With reference to Figures 11, 14, 15 and 16 perform the retromod P/N 3G5332P01611 as described in the following procedure:
   5.1 With reference to Figure 11 View A, remove the middle floor panel P/N 3G5332A05834 from the cabin structure.
   5.2 Perform from step 4.2 thru step 4.12.
6. In accordance with AMP Section 25 applicable DM, reinstall the 1st row central seat/seats previously removed.
7. In accordance with weight and balance changes, update the Chart A (see Rotorcraft Flight Manual, Part II, section 6).
8. Return the helicopter to flight configuration and record for compliance with Part III of this Service Bulletin on the helicopter logbook.
9. Send the attached compliance form to the following mail box:

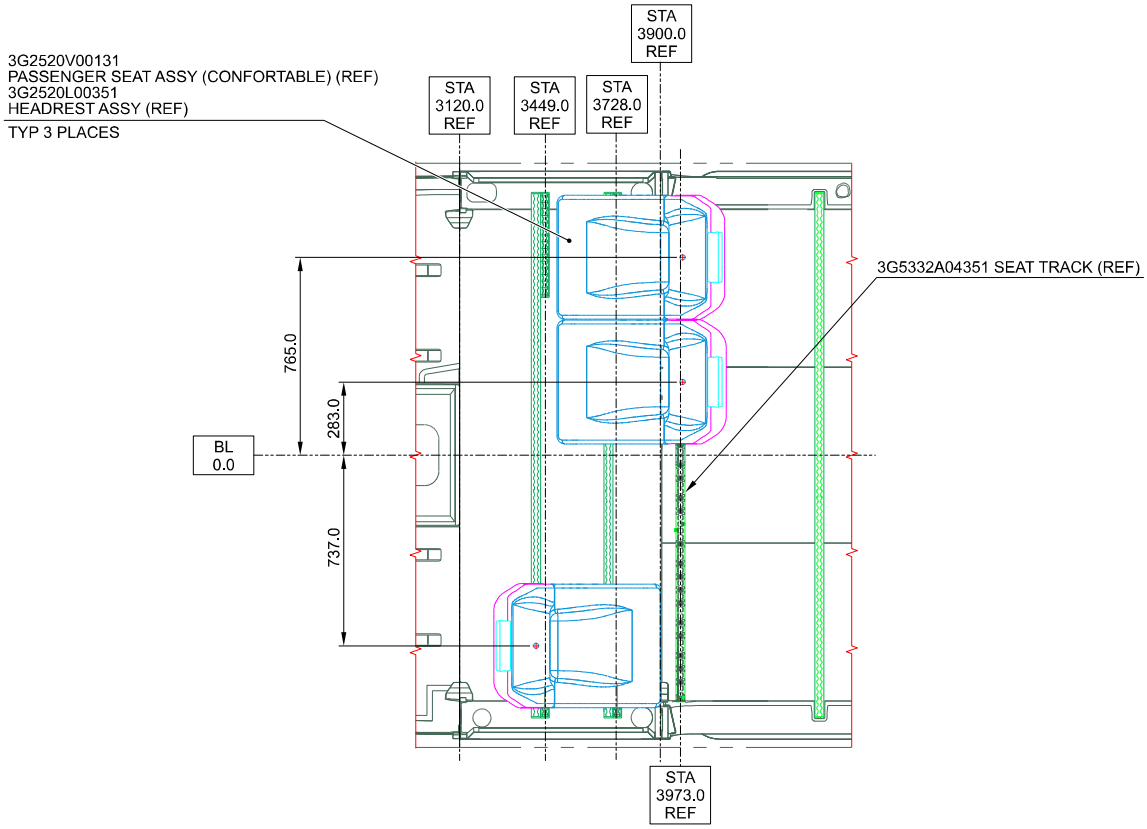
   engineering.support.lhd@leonardo.com

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



FWD FACING ROW SEATS KIT P/N 3G2520F00611

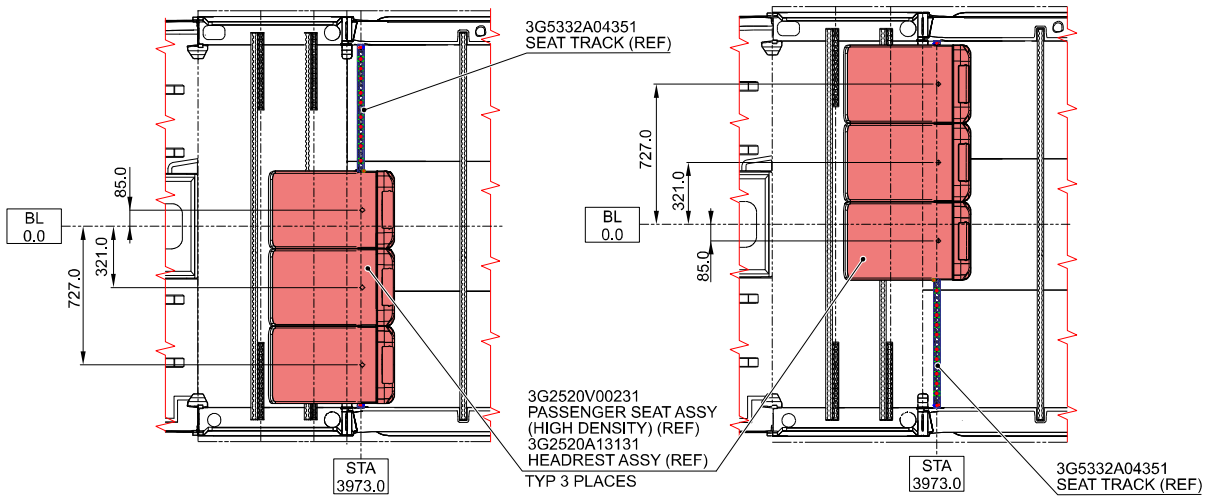
CONFIGURATION A



FWD FACING ROW SEATS KIT P/N 3G2520F00611

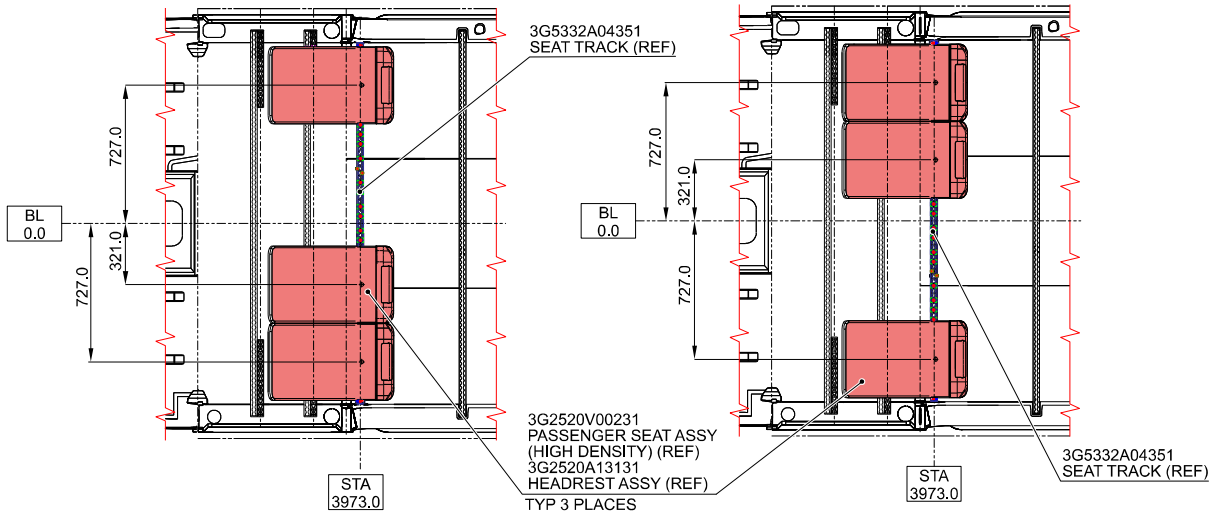
CONFIGURATION B

Figure 1



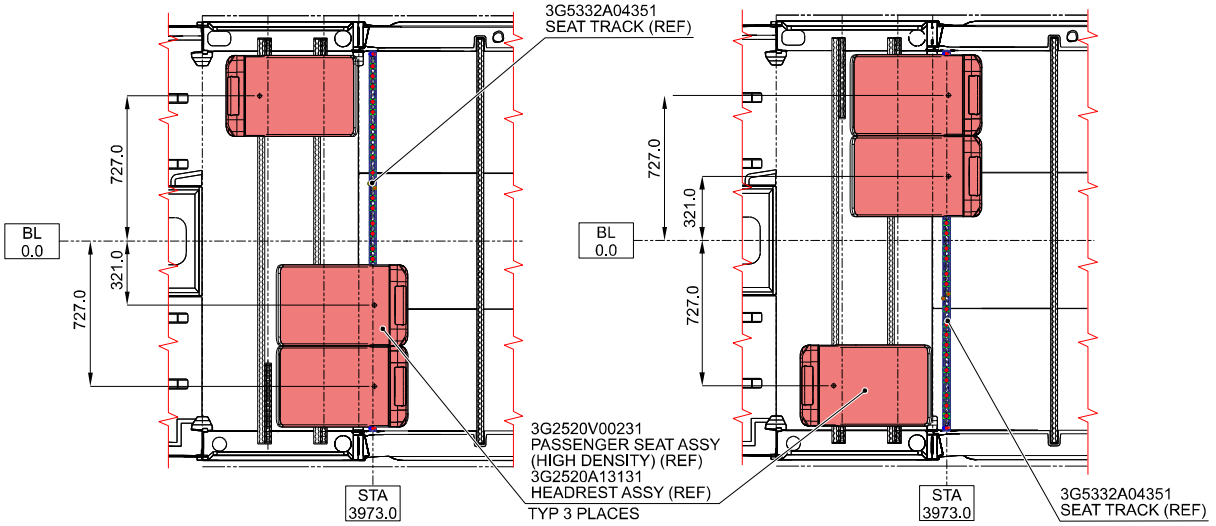
KIT FWD SEATS P/N 3G2520F00711
NORMAL INSTL

KIT FWD SEATS P/N 3G2520F00711
SYMMETRICAL INSTL



KIT FWD SEATS P/N 3G2520F00712
NORMAL INSTL

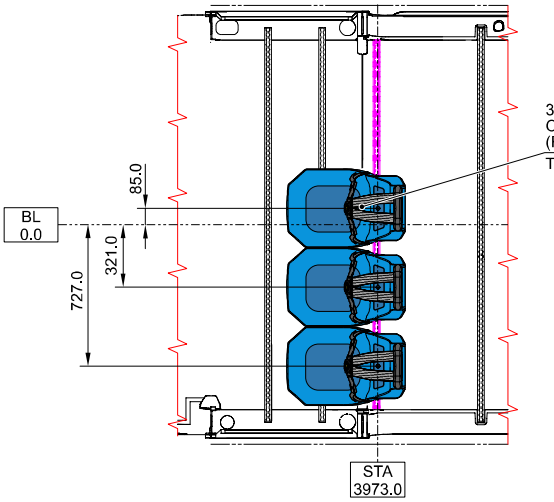
KIT FWD SEATS P/N 3G2520F00712
SYMMETRICAL INSTL



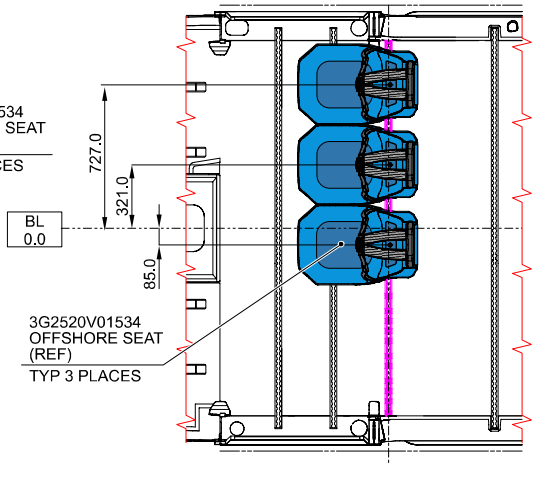
KIT FWD SEATS P/N 3G2520F00713
NORMAL INSTL

KIT FWD SEATS P/N 3G2520F00713
SYMMETRICAL INSTL

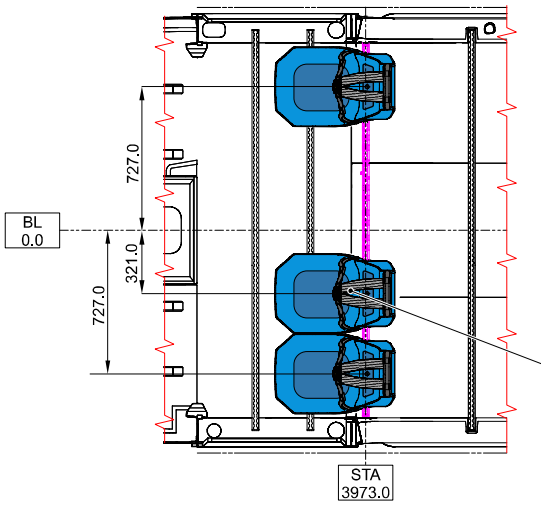
Figure 2



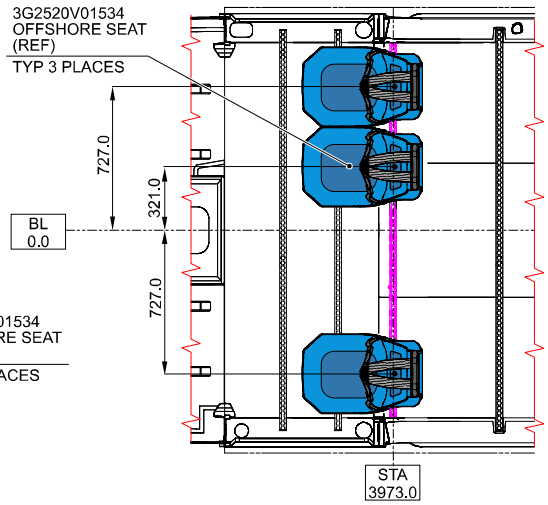
KIT FWD SEATS P/N 3G2520F00714
NORMAL INSTL



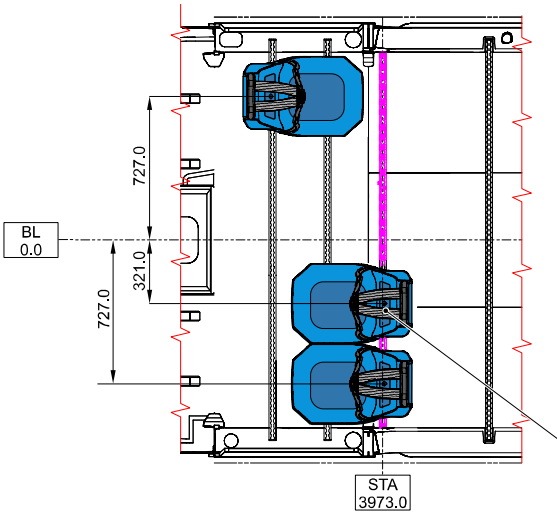
KIT FWD SEATS P/N 3G2520F00714
SYMMETRICAL INSTL



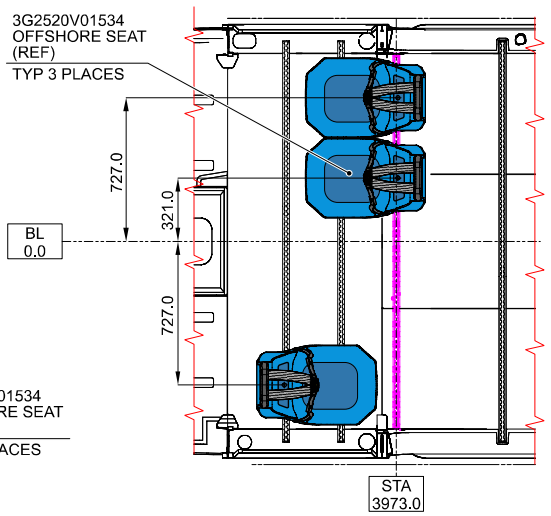
KIT FWD SEATS P/N 3G2520F00715
NORMAL INSTL



KIT FWD SEATS P/N 3G2520F00715
SYMMETRICAL INSTL

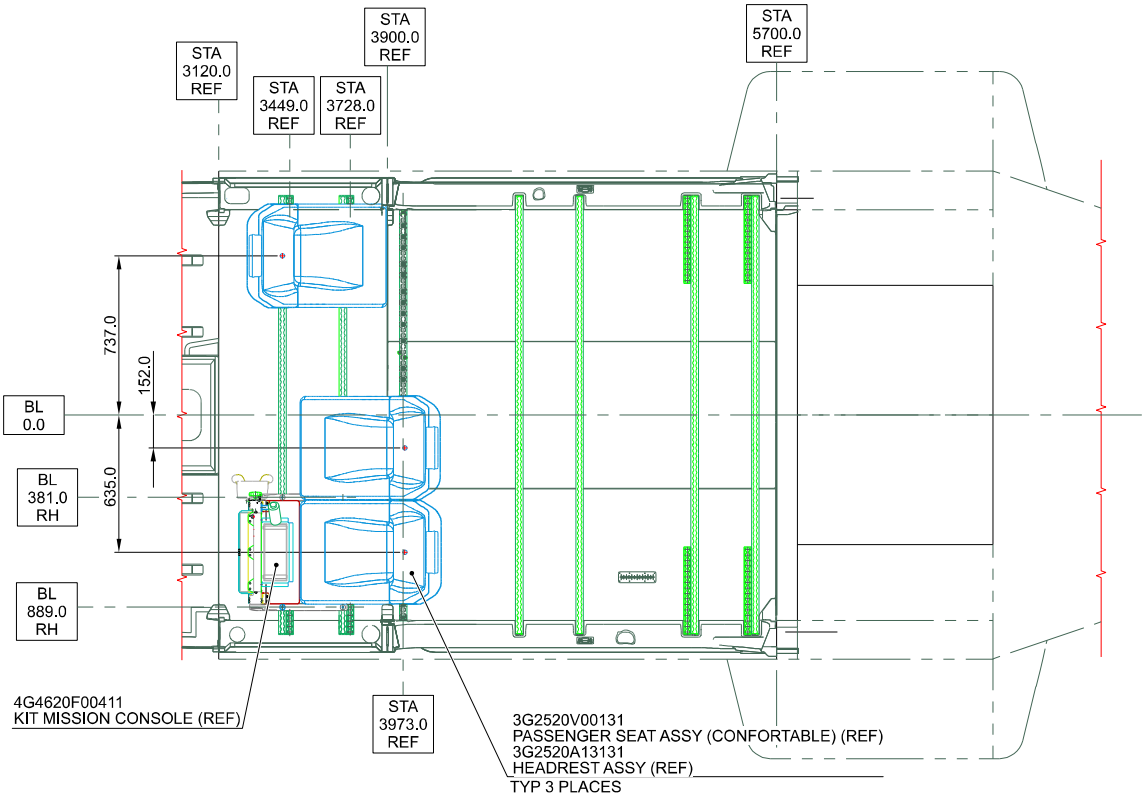


KIT FWD SEATS P/N 3G2520F00716
NORMAL INSTL



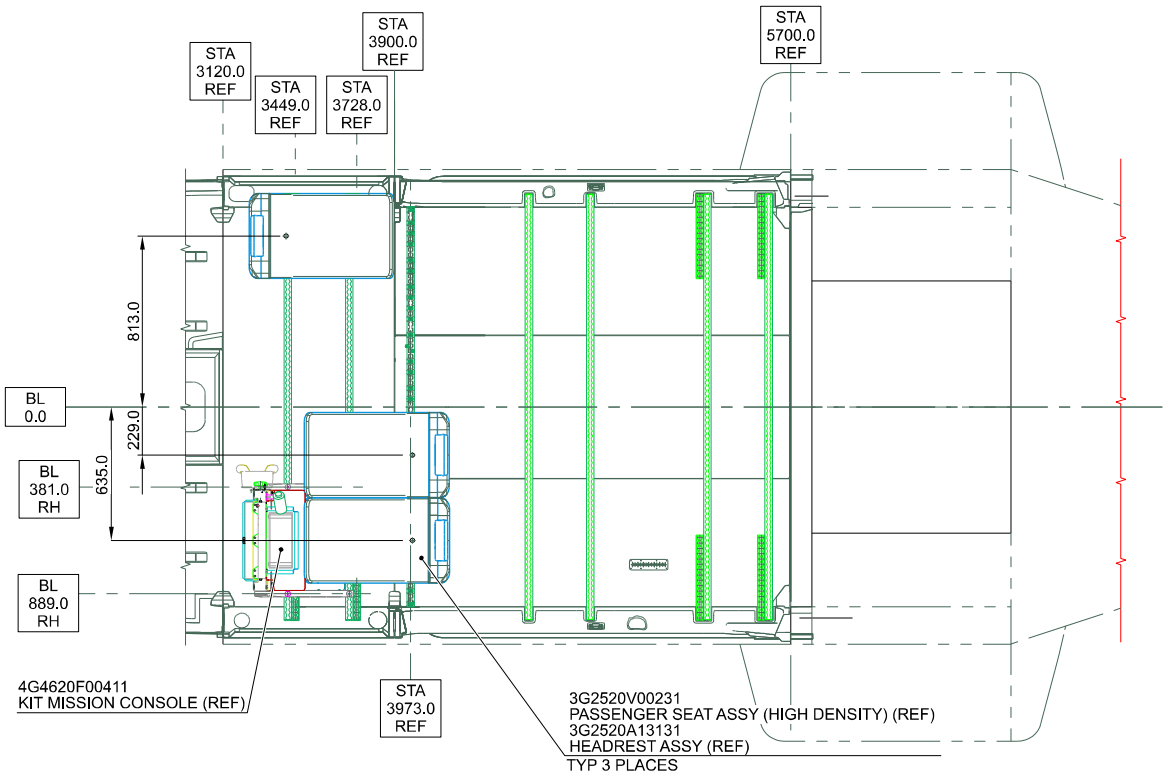
KIT FWD SEATS P/N 3G2520F00716
SYMMETRICAL INSTL

Figure 3

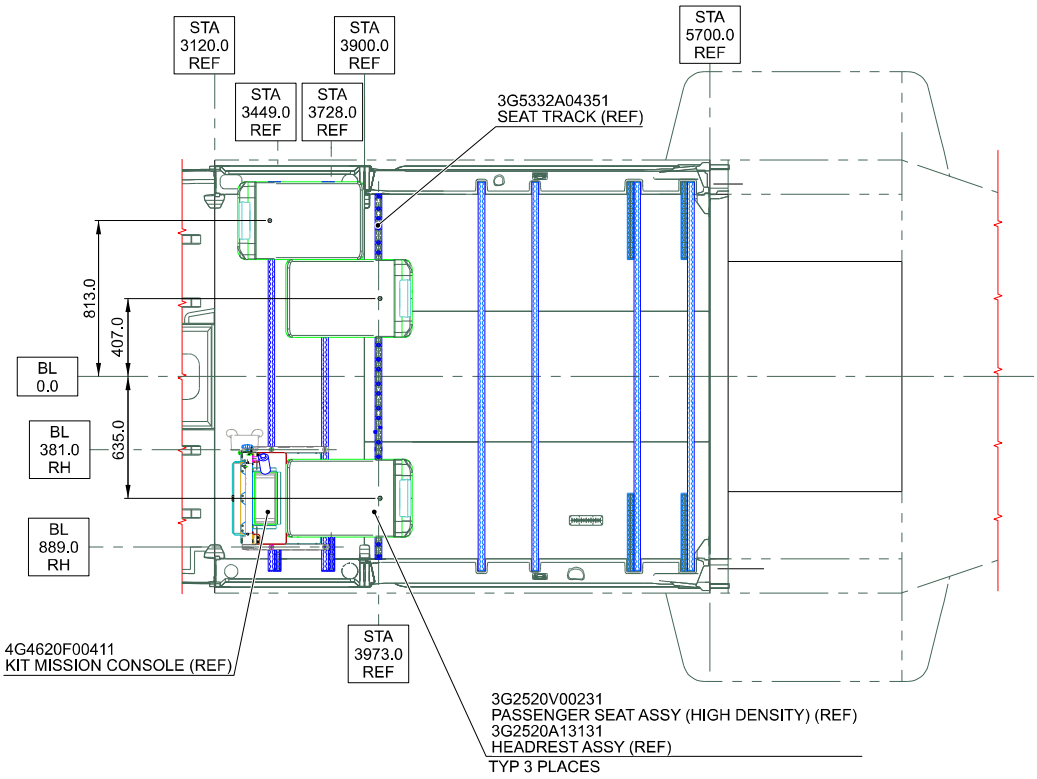


CABIN SEAT KIT P/N 3G2520F00811

Figure 4

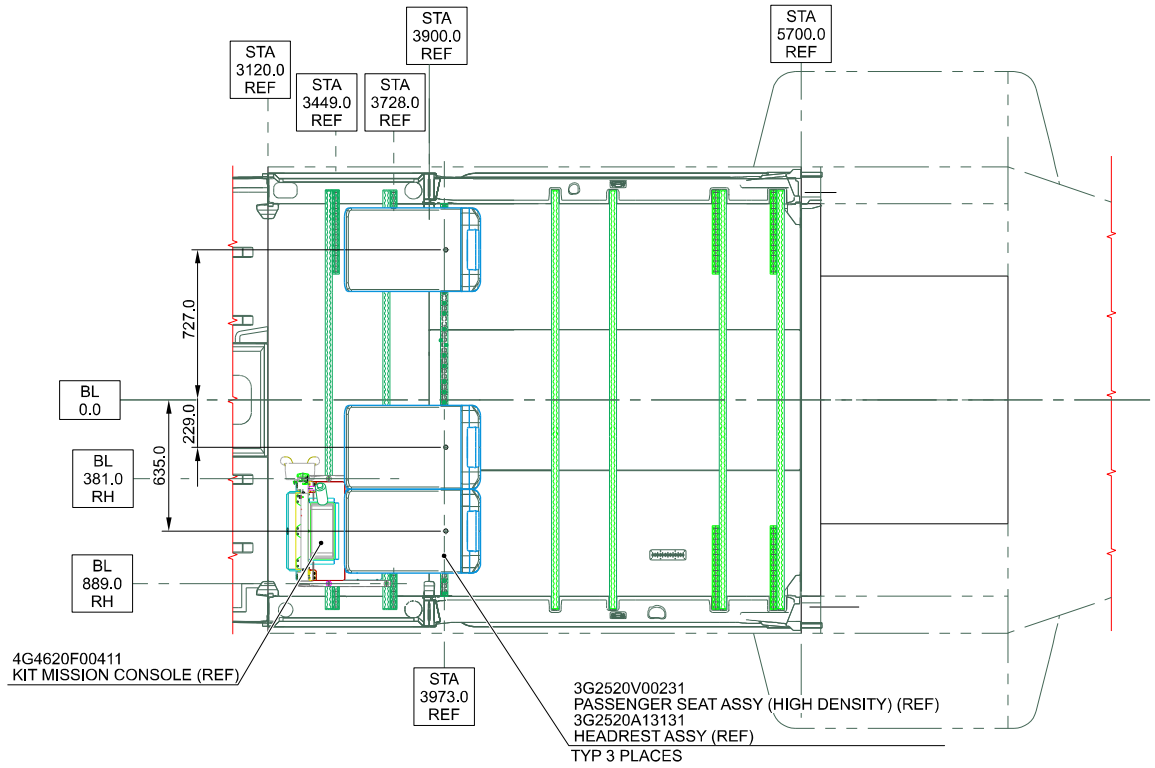


CABIN SEAT KIT P/N 3G2520F00912

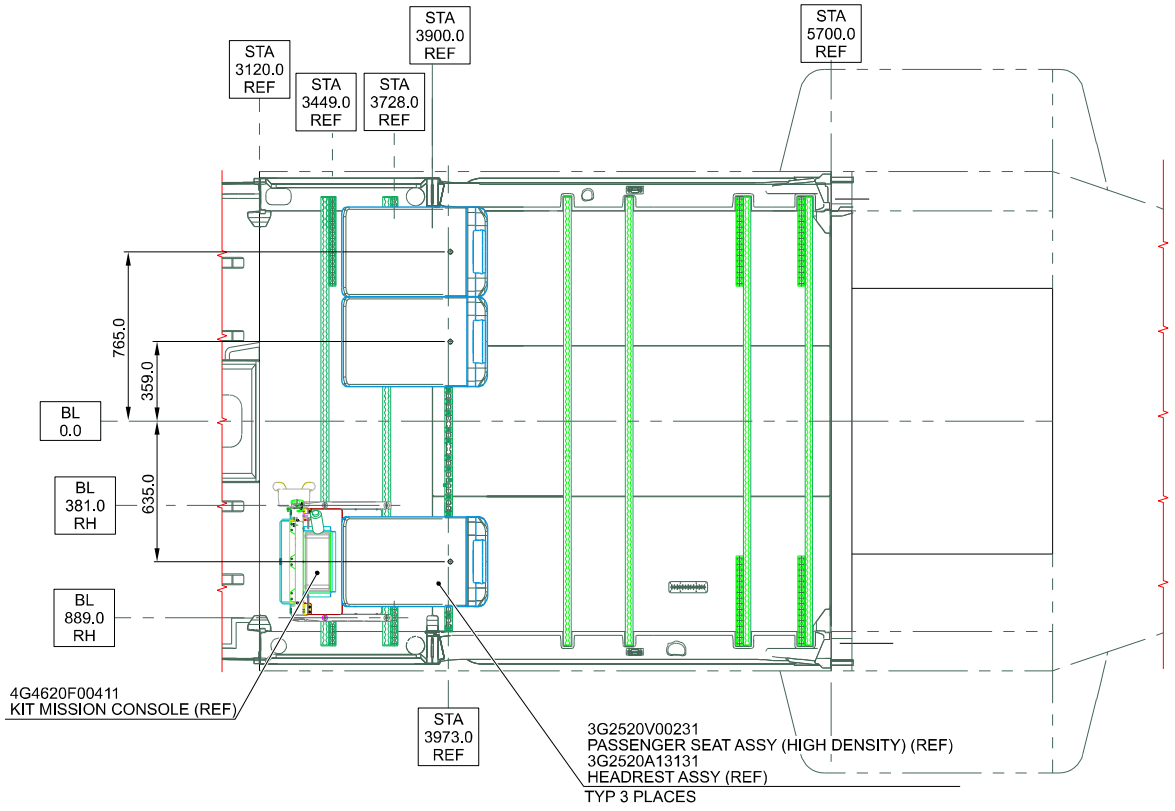


CABIN SEAT KIT P/N 3G2520F00913

Figure 5

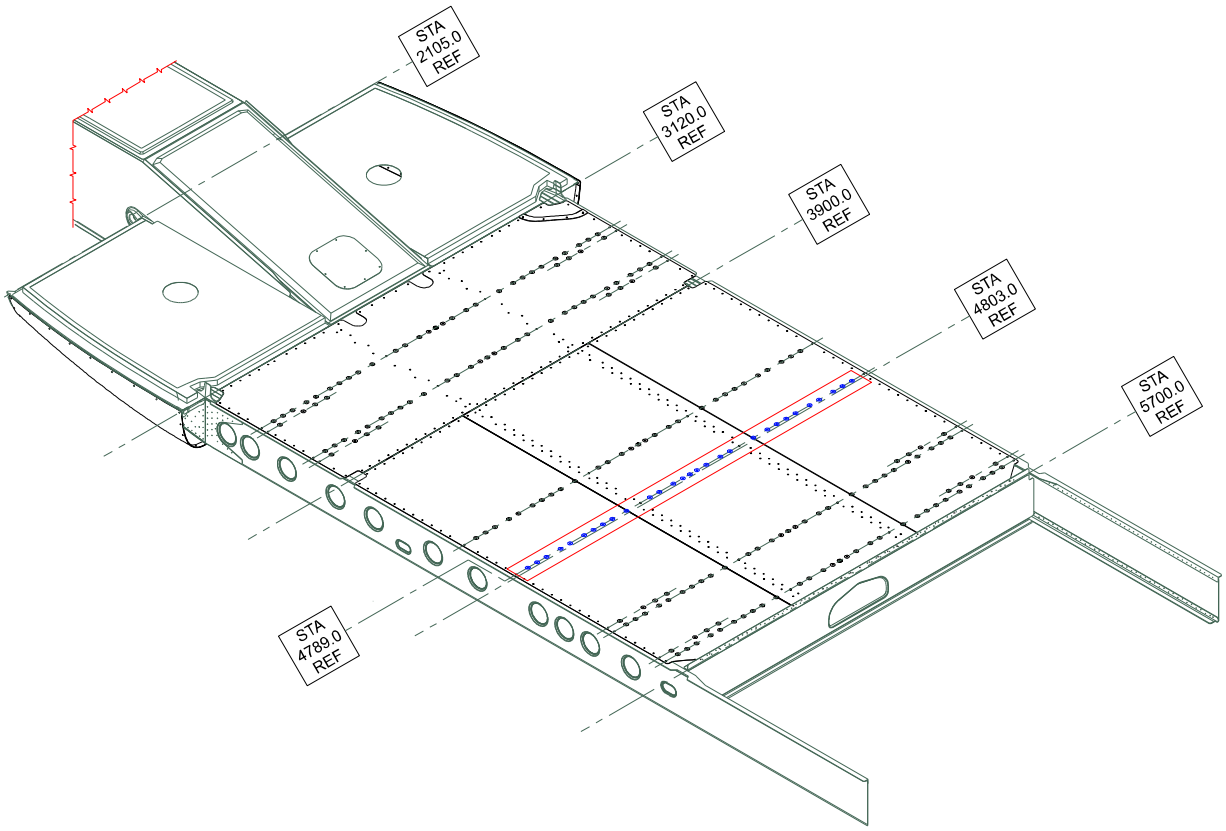


CABIN SEAT KIT P/N 3G2520F00914

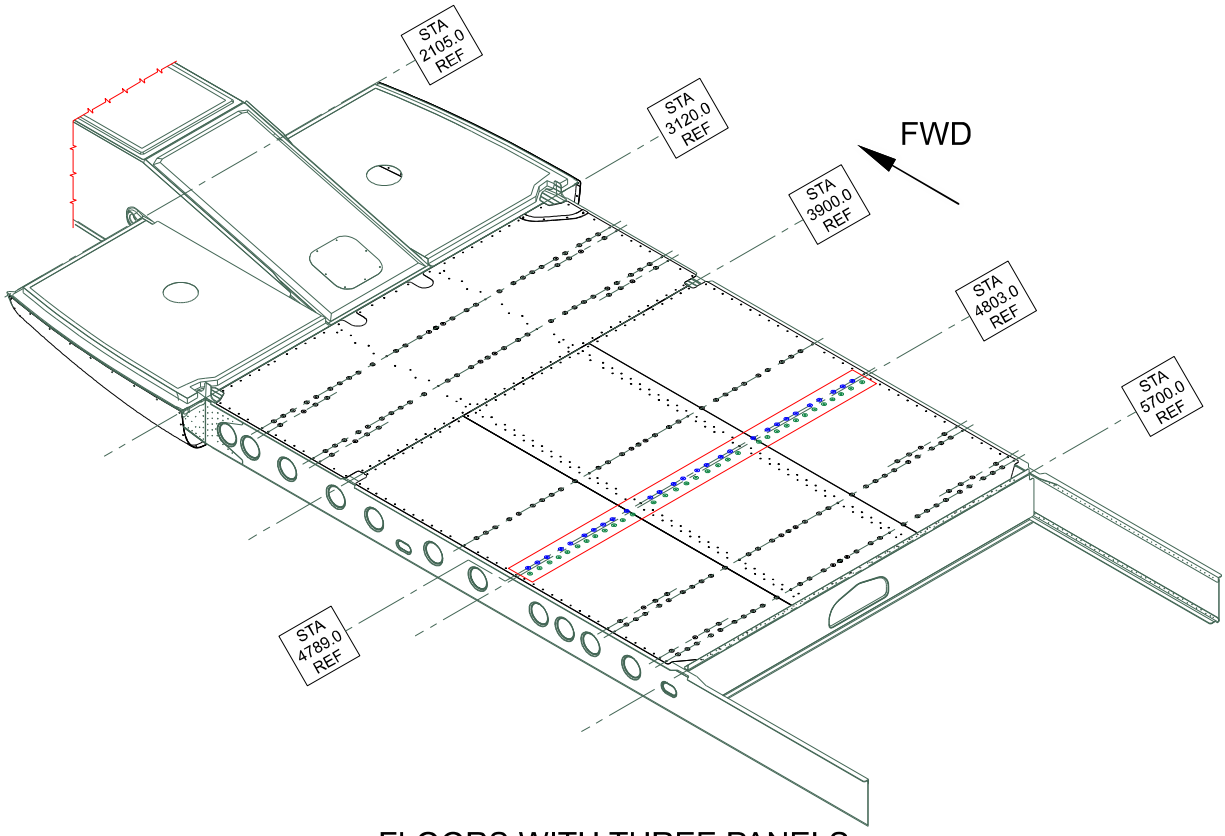


CABIN SEAT KIT P/N 3G2520F00915

Figure 6



FLOORS WITH TWO PANELS
ISOMETRIC VIEW



FLOORS WITH THREE PANELS
ISOMETRIC VIEW

Figure 7

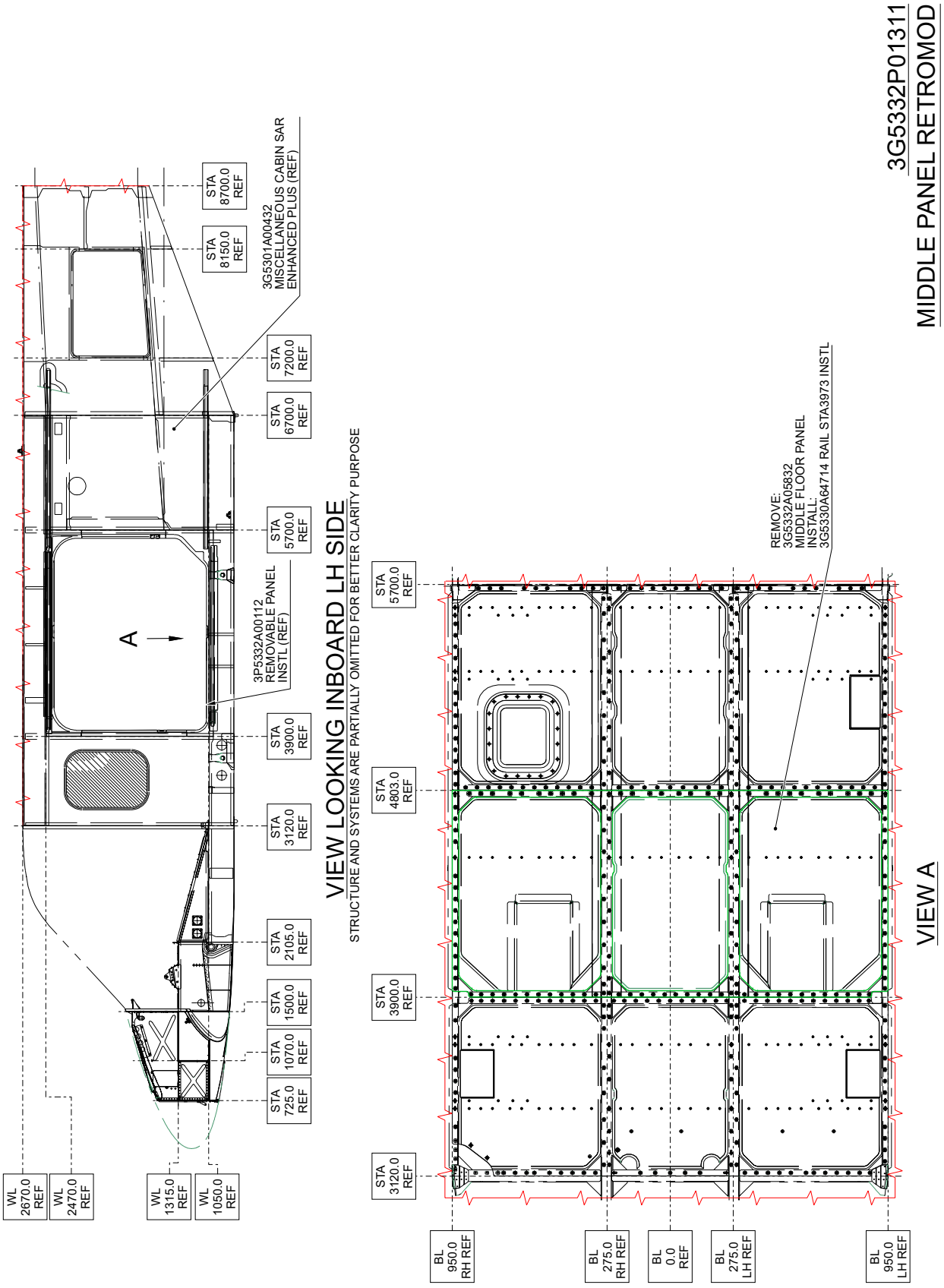
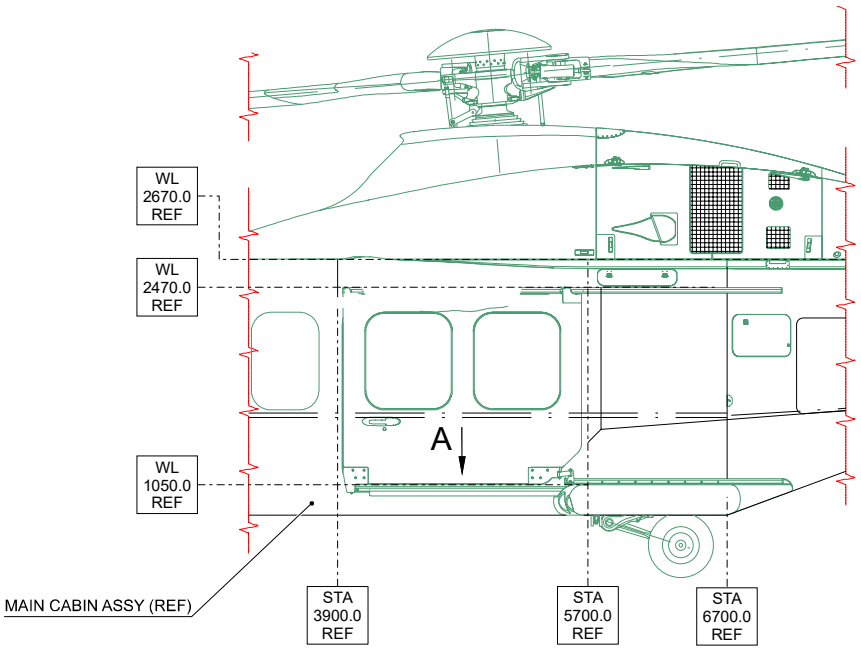
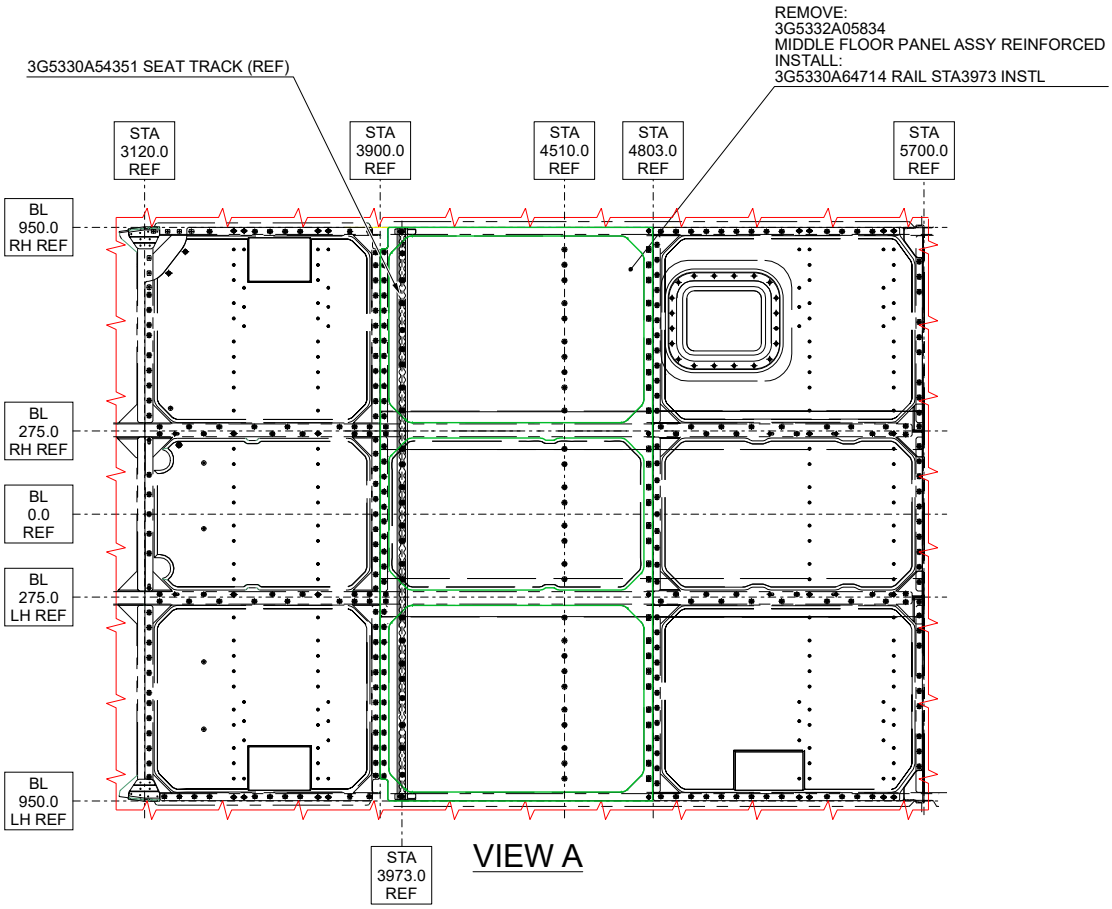

3G5332P01311
MIDDLE PANEL RETROMOD
VIEW LOOKING INBOARD LH SIDE
STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
3G5301A00432
MISCELLANEOUS CABIN SAR
ENHANCED PLUS (REF)
3P5332A00112
REMOVABLE PANEL
INSTL (REF)
A
STA 8700.0 REF
STA 8150.0 REF
STA 7200.0 REF
STA 6700.0 REF
STA 5700.0 REF
STA 3900.0 REF
STA 3120.0 REF
STA 2105.0 REF
STA 1500.0 REF
STA 1070.0 REF
STA 725.0 REF
WL 2670.0 REF
WL 2470.0 REF
WL 1315.0 REF
WL 1050.0 REF
REMOVE:
3G5332A05832
MIDDLE FLOOR PANEL
INSTALL:
3G5330A64714 RAIL STA3973 INSTL
VIEW A
STA 5700.0 REF
STA 4803.0 REF
STA 3900.0 REF
STA 3120.0 REF
BL 950.0 RH REF
BL 275.0 RH REF
BL 0.0 REF
BL 275.0 LH REF
BL 950.0 LH REF

Figure 8



VIEW LOOKING INBOARD LH SIDE

STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE



VIEW A

Figure 9

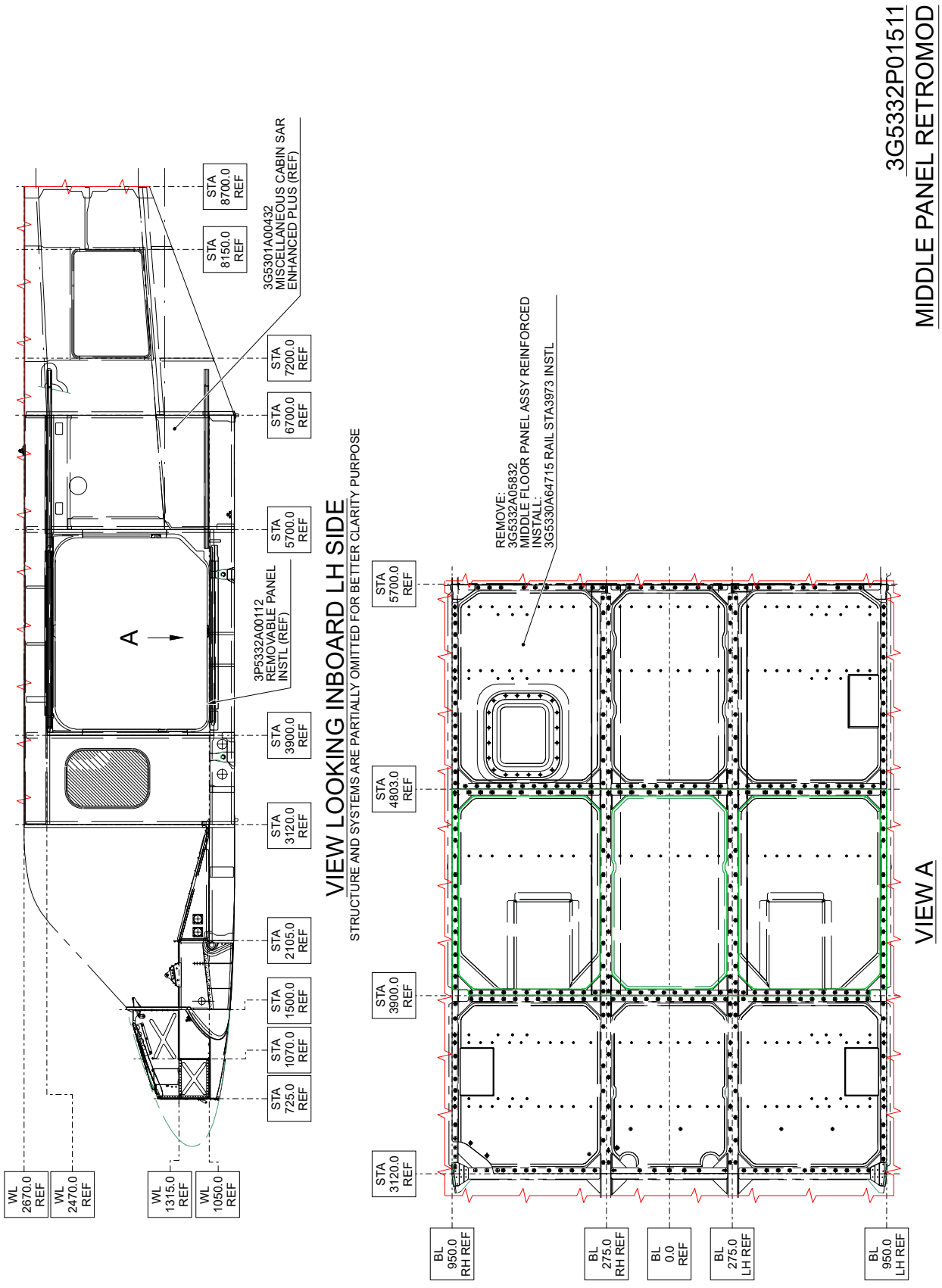
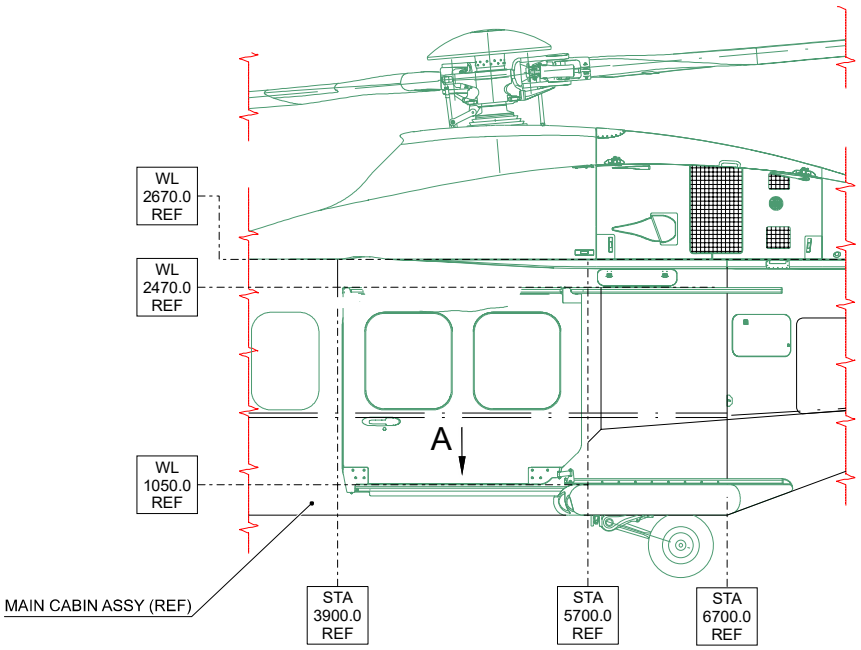

3G5332P01511
MIDDLE PANEL RETROMOD
VIEW A
VIEW LOOKING INBOARD LH SIDE
STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
REMOVE:
3G5332A05832
MIDDLE FLOOR PANEL ASSY REINFORCED
INSTALL:
3G5330A64715 RAIL STA3973 INSTL
3G5301A00432
MISCELLANEOUS CABIN SAR
ENHANCED PLUS (REF)
3P5332A00112
REMOVABLE PANEL
INSTL (REF)
A
STA 8700.0 REF
STA 8150.0 REF
STA 7200.0 REF
STA 6700.0 REF
STA 5700.0 REF
STA 3900.0 REF
STA 3120.0 REF
STA 2105.0 REF
STA 1500.0 REF
STA 1070.0 REF
STA 725.0 REF
WL 2670.0 REF
WL 2470.0 REF
WL 1315.0 REF
WL 1050.0 REF
STA 5700.0 REF
STA 4803.0 REF
STA 3900.0 REF
STA 3120.0 REF
BL 950.0 RH REF
BL 275.0 RH REF
BL 0.0 REF
BL 275.0 LH REF
BL 950.0 LH REF

Figure 10

MIDDLE PANEL RETROMOD
3G5332P01611



VIEW LOOKING INBOARD LH SIDE
STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

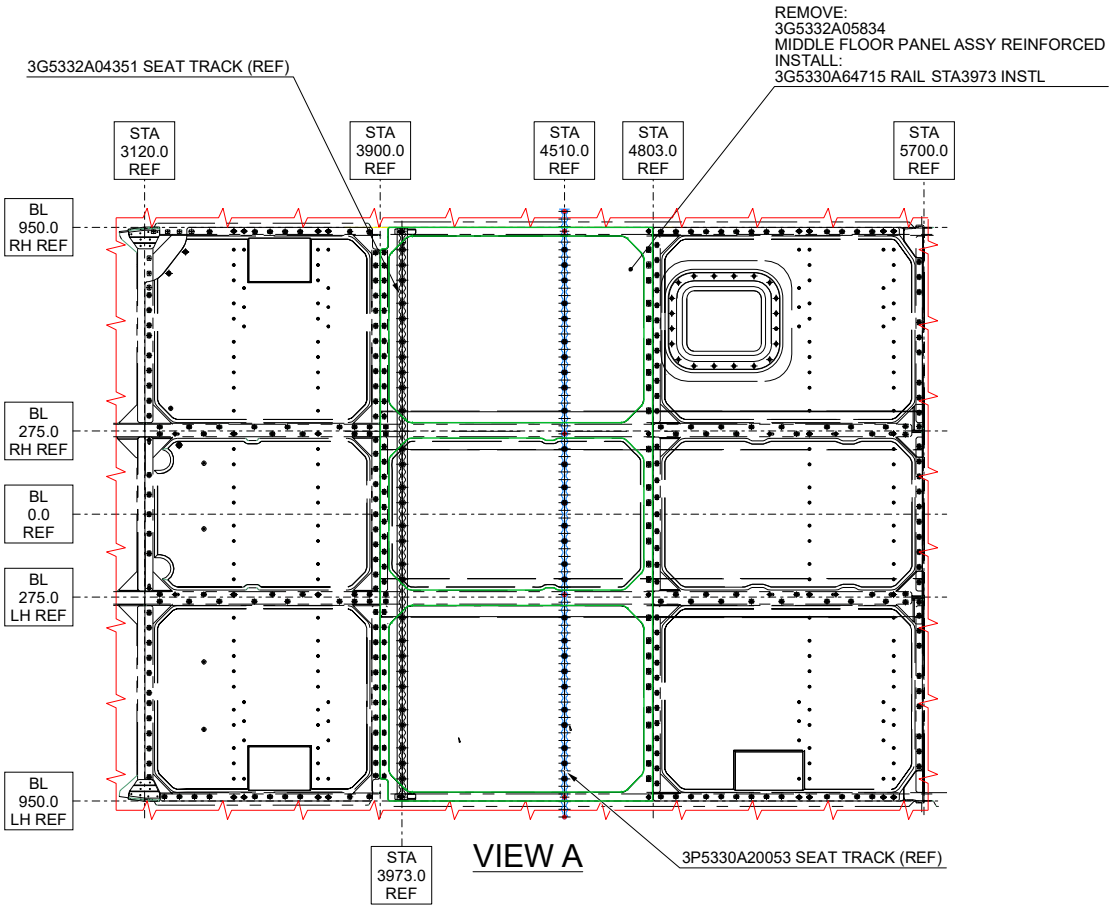
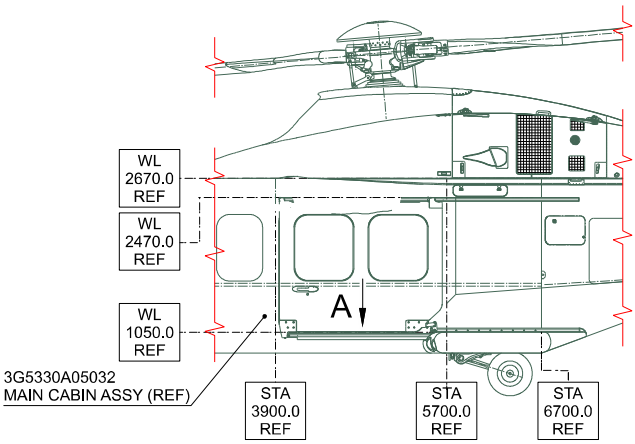
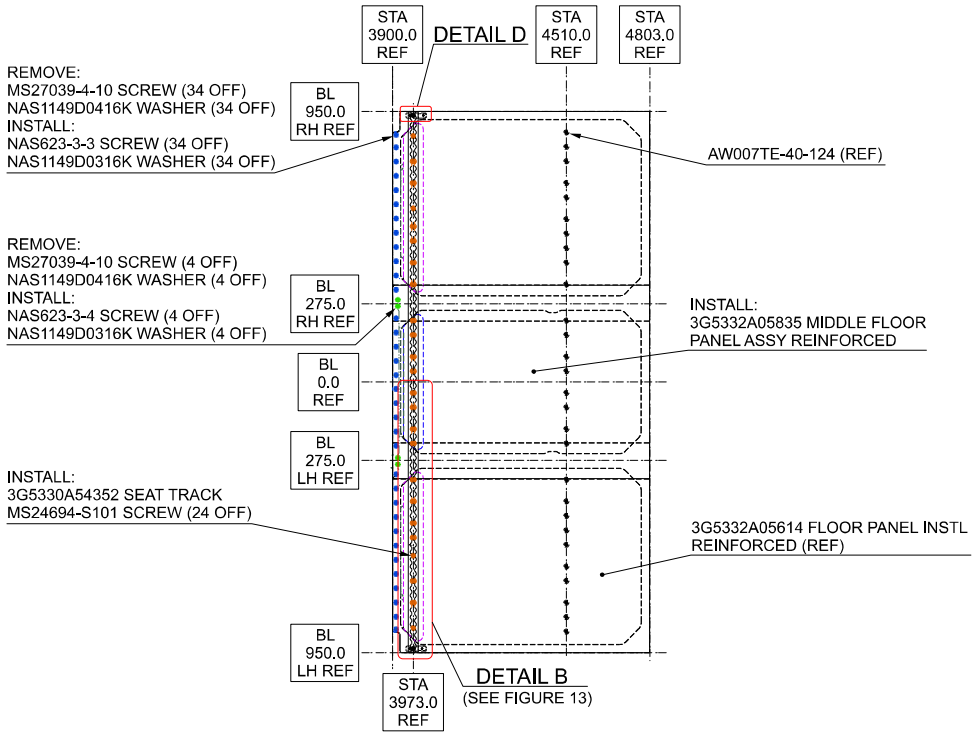


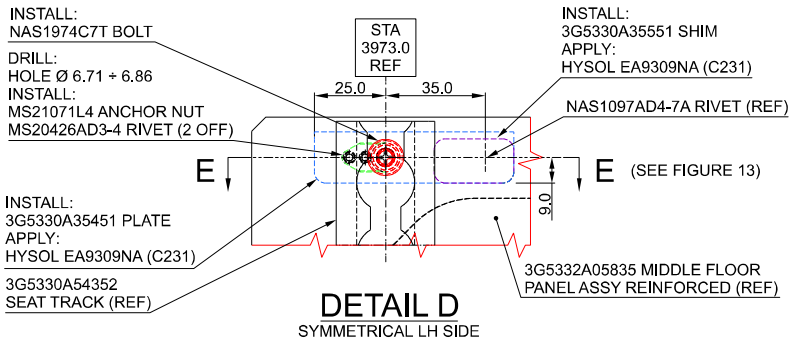
Figure 11

RAIL STA3973 INSTL
3G5330A64714



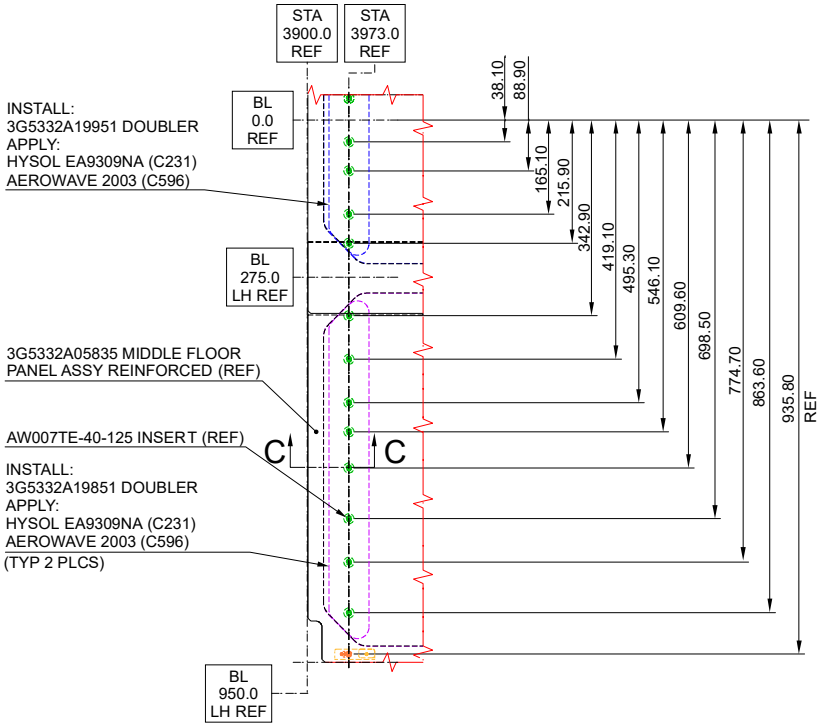


VIEW A
STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE



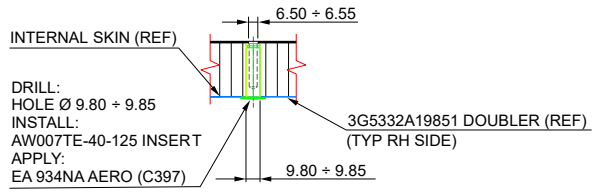
DETAIL D
SYMMETRICAL LH SIDE

Figure 12



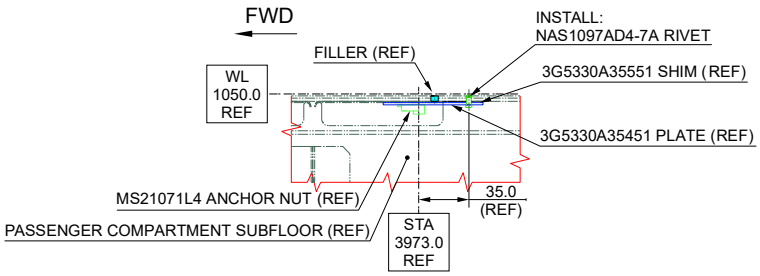
DETAIL B

SYMMETRICAL RH SIDE
STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
(REFER TO FIGURE 12)



SECTION C-C

(TYP 24 PLCS)

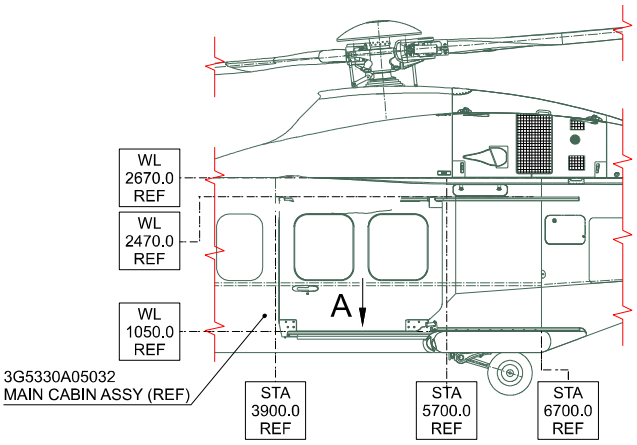


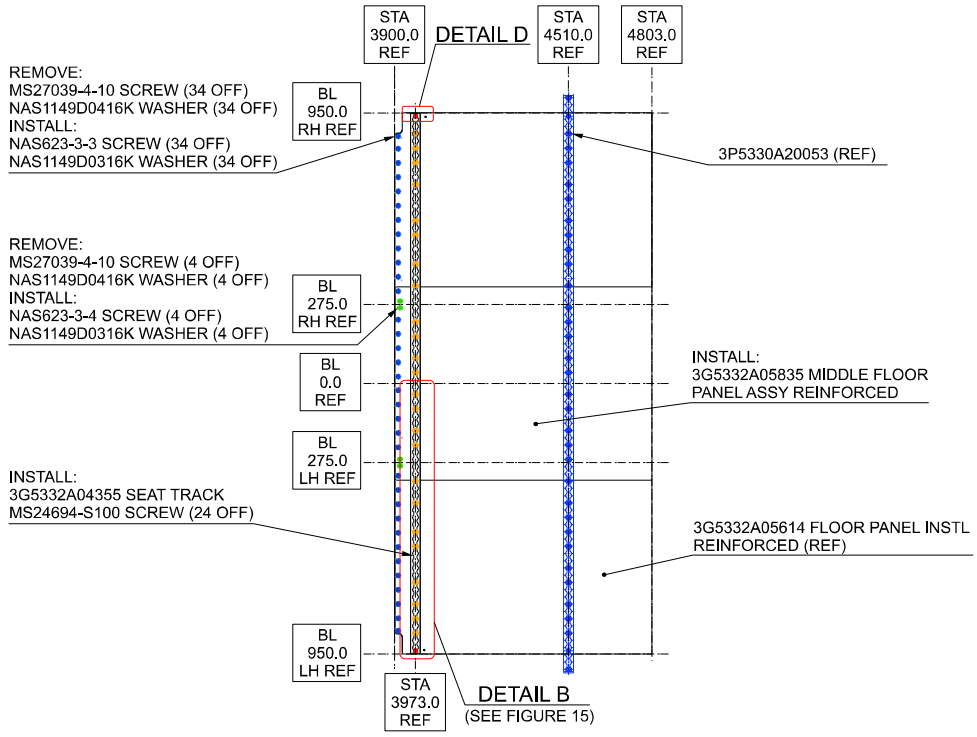
SECTION E-E

SYMMETRICAL LH SIDE
(REFER TO FIGURE 12)

Figure 13

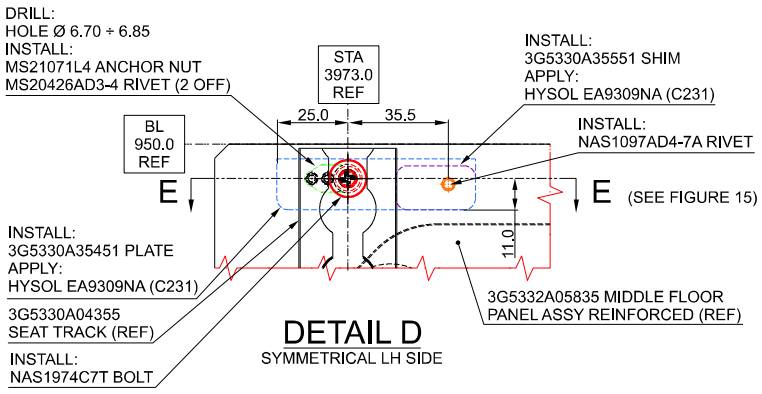
RAIL STA3973 INSTL
3G5330A64715





VIEW A

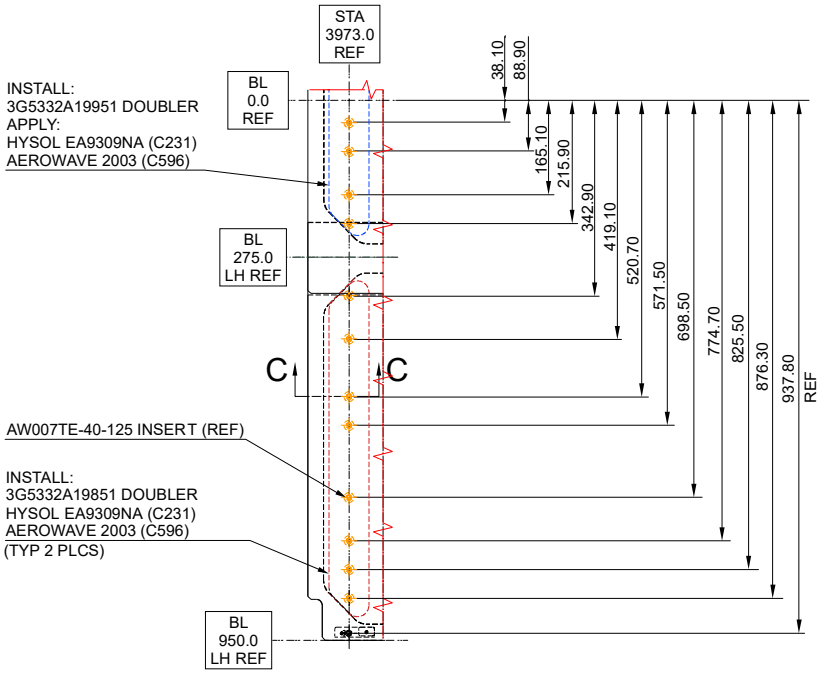
STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE



DETAIL D

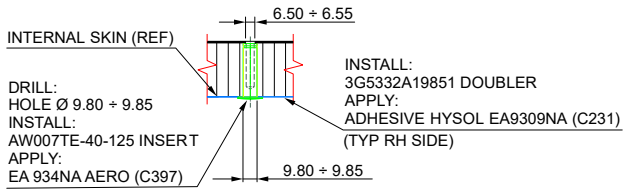
SYMMETRICAL LH SIDE

Figure 14



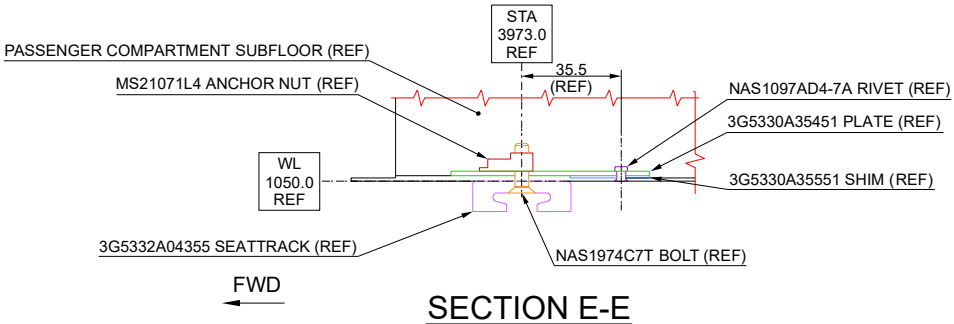
DETAIL B

SYMMETRICAL RH SIDE
STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
(REFER TO FIGURE 14)



SECTION C-C

(TYP 24 PLCS)



SECTION E-E

SYMMETRICAL LH SIDE
(REFER TO FIGURE 14)

Figure 15

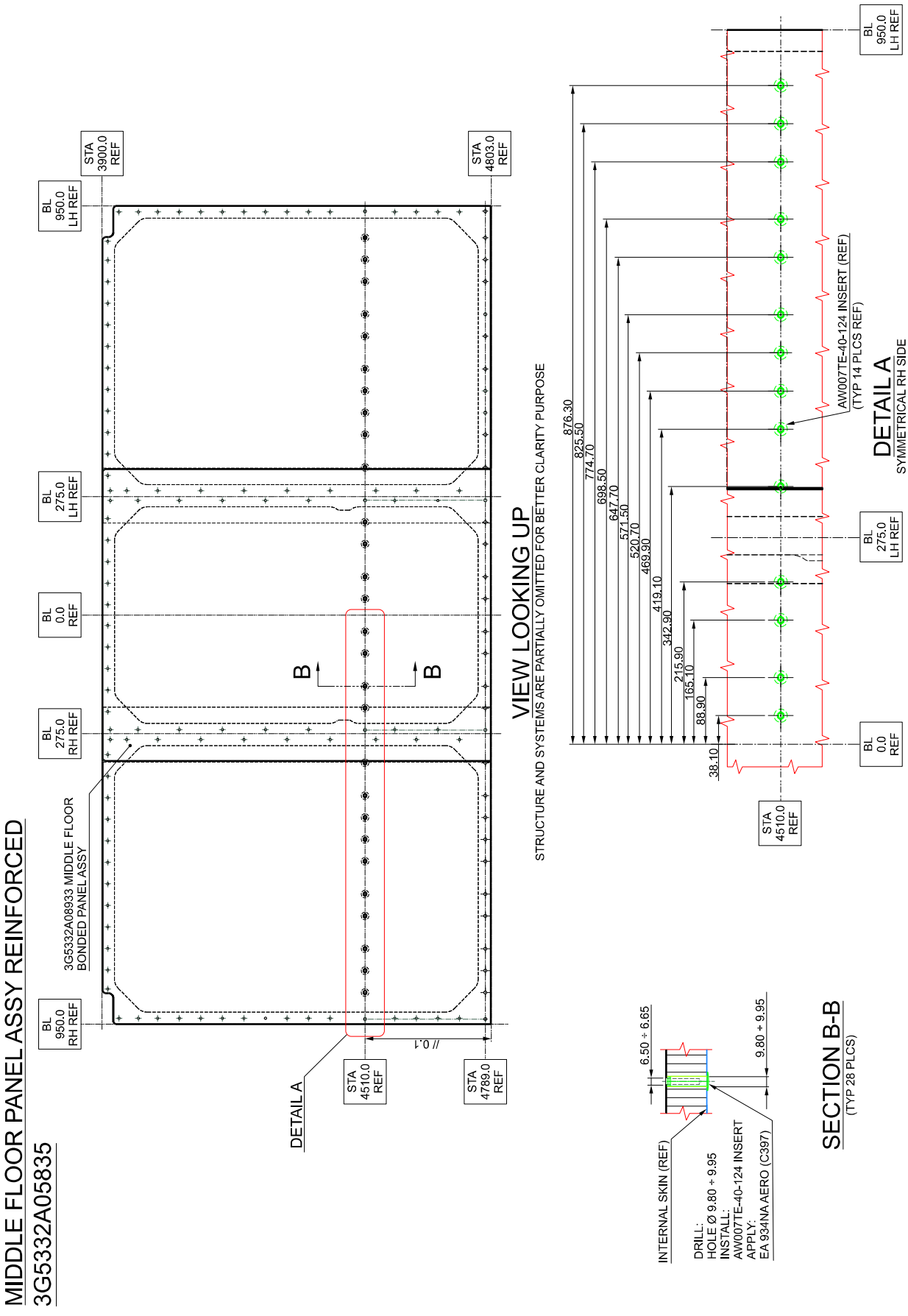

MIDDLE FLOOR PANEL ASSY REINFORCED
3G5332A05835
3G5332A08933 MIDDLE FLOOR BONDED PANEL ASSY
BL 950.0 RH REF
BL 275.0 RH REF
BL 0.0 REF
BL 275.0 LH REF
BL 950.0 LH REF
STA 3900.0 REF
STA 4803.0 REF
STA 4510.0 REF
STA 4789.0 REF
B
B
DETAIL A
// 0.1
VIEW LOOKING UP
STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
876.30
825.50
774.70
698.50
647.70
571.50
520.70
469.90
419.10
342.90
215.90
165.10
88.90
38.10
AW007TE-40-124 INSERT (REF)
(TYP 14 PLCS REF)
DETAIL A
SYMMETRICAL RH SIDE
6.50 ÷ 6.65
9.80 ÷ 9.95
INTERNAL SKIN (REF)
DRILL:
HOLE Ø 9.80 ÷ 9.95
INSTALL:
AW007TE-40-124 INSERT
APPLY:
EA 934NA AERO (C397)
SECTION B-B
(TYP 28 PLCS)

Figure 16

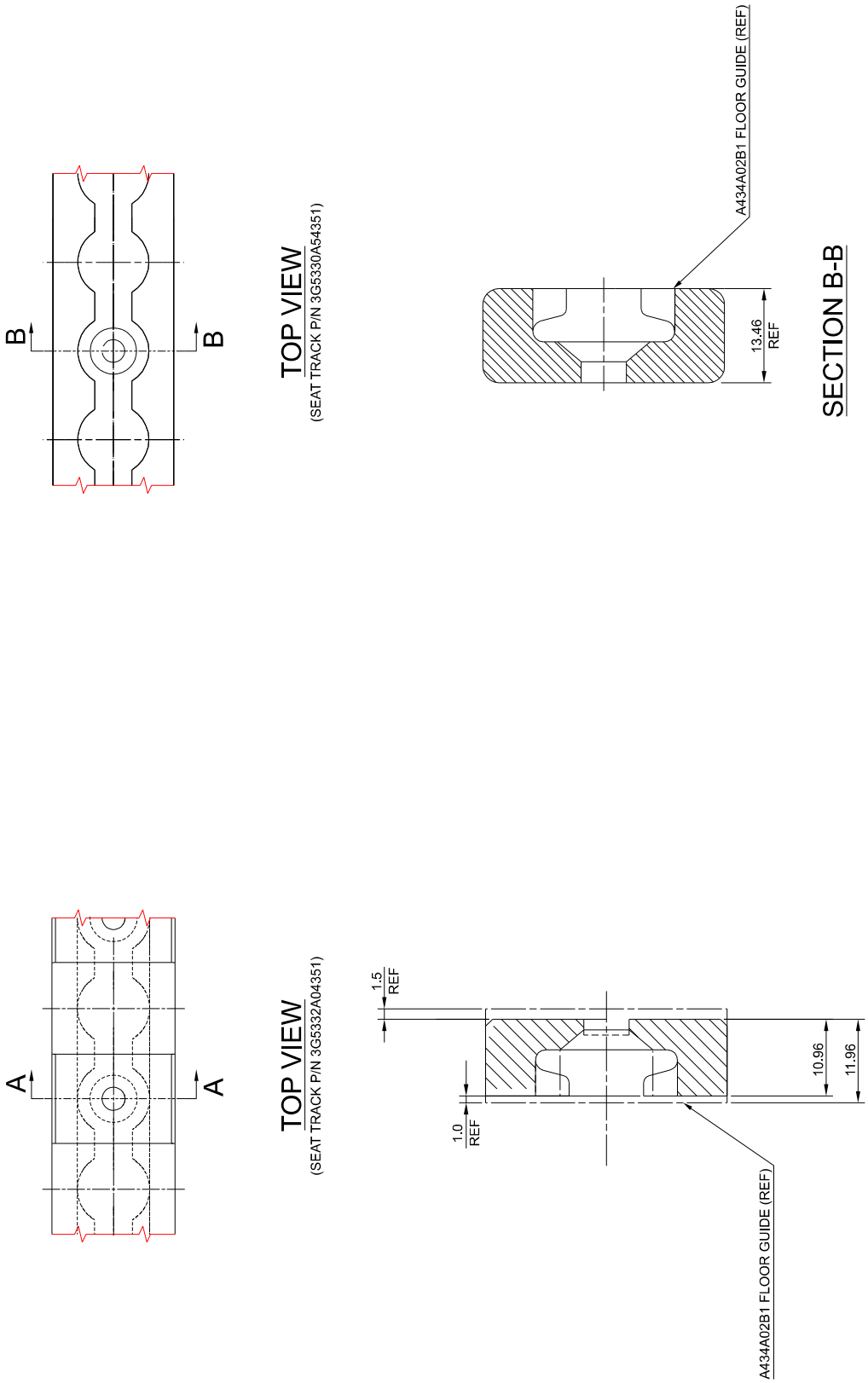

B
B
TOP VIEW
(SEAT TRACK P/N 3G5330A54351)
A434A02B1 FLOOR GUIDE (REF)
13.46
REF
SECTION B-B
A
A
TOP VIEW
(SEAT TRACK P/N 3G5332A04351)
1.5
REF
1.0
REF
10.96
11.96
A434A02B1 FLOOR GUIDE (REF)
SECTION A-A

Figure 17

ANNEX A

SB APPLICATION FORM – INSPECTION REPORT

SB 139-678	
Helicopter S/N	
FH	
Date	
Outcome of the inspection prescribed in Part I:	
P/N of the Seat track installed	☐ P/N 3G5330A54351 ☐ P/N 3G5332A04351
Number of cabin floor panels (identified through the number of rivets rows at STA 4803)	☐ 2 panels floor ☐ 3 panels floor(1)

(1) As per the Effectivity, only AW139 helicopters from S/N 31400 to S/N 31882 and from S/N 41300 to S/N 41570 equipped with passenger floor composed by 3 panels and installing the 1st row central seat/seats FWD facing are affected by this SB.

Please, if relevant, also attach picture(s) displaying the seat track installed and the STA 4803.

LEONARDO
HELICOPTERS

AgustaWestland Products

Please send to the following address: **LEONARDO S.p.A.** **CUSTOMER SUPPORT & SERVICES - ITALY** **PRODUCT SUPPORT ENGINEERING & LICENSES DEPT.** Via Giovanni Agusta, 520 21017 Cascina Costa di Samarate (VA) - ITALY Tel.: +39 0331 225036 Fax: +39 0331 225988	**SERVICE BULLETIN COMPLIANCE FORM**	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.