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AgustaWestland Products

SERVICE BULLETIN

N° 139-502

DATE: November 17, 2021

REV. : /

TITLE

ATA 95 - COCKPIT AND CABIN PASSENGER FLOOR BALLISTIC PROTECTIONS INSTALLATION

REVISION LOG

First Issue

1. PLANNING INFORMATION

A. EFFECTIVITY

AW139 helicopter S/N 31706.

B. COMPLIANCE

At Customer's option.

C. CONCURRENT REQUIREMENTS

N.A.

D. REASON

To provide all necessary instructions on how to perform the installation of the kit cockpit floor ballistic protection P/N 4G9580F00311, kit cockpit door ballistic protection P/N 4G9580F00411, kit cabin passenger floor ballistic protection P/N 4G9580F00711, kit cabin passenger floor ballistic protection P/N 4G9580F00811 and the emergency release mechanism installation P/N 3G5206P00111.

E. DESCRIPTION

This Service Bulletin provides the necessary procedures to perform:

- Cockpit floor provision P/N 3G5311A24711 (PART I) and cockpit floor ballistic protection installation P/N 3G9580A03211 (PART II) for kit cockpit floor ballistic protection P/N 4G9580F00311.
- Ballistic protection cockpit door provision P/N 3G5311A25111 (PART III), cockpit ballistic protection fixed parts installation P/N 3G9580A03111 (PART IV) and removable parts installation P/N 3G9580A03011 (PART V) for kit cockpit door ballistic protection P/N 4G9580F00411.
- Cabin floor provision P/N 3G5311A20011, ballistic protection fixed parts installation P/N 3G9580A04111 (PART VI) and ballistic protection removable parts installation P/N 3G9580A04011 (PART VII) for kit cabin passenger floor ballistic protection P/N 4G9580F00711.
- Cabin floor provision P/N 3G5311A20011, ballistic protection fixed parts installation P/N 3G9580A04311 (PART VIII) and ballistic protection removable parts installation P/N 3G9580A04211 (PART IX) for kit cabin passenger floor ballistic protection P/N 4G9580F00811.
- Emergency release mechanism installation P/N 3G5206P00111 (PART X)

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 seven-hundred (700) MMH are deemed necessary.

Maintenance-Man-Hours are based on hands-on time and can change with personnel and facilities available.

H. WEIGHT AND BALANCE

PART I

WEIGHT (Kg)	0.4	
	ARM (mm)	**MOMENT (Kgmm)**
LONGITUDINAL BALANCE	2623	1049.2
LATERAL BALANCE	-11	-4.4

PART II

WEIGHT (Kg)	11.1	
	ARM (mm)	**MOMENT (Kgmm)**
LONGITUDINAL BALANCE	2536	28149.6
LATERAL BALANCE	-15	-166.5

PART III

WEIGHT (Kg)	2	
	ARM (mm)	**MOMENT (Kgmm)**
LONGITUDINAL BALANCE	2853	5706
LATERAL BALANCE	39	78

PART IV

WEIGHT (Kg)		1.06
	ARM (mm)	**MOMENT (Kgmm)**
LONGITUDINAL BALANCE	2708.45	2870.96
LATERAL BALANCE	455.98	483.34

PART V

WEIGHT (Kg)		23.8
	ARM (mm)	**MOMENT (Kgmm)**
LONGITUDINAL BALANCE	2732	65021.6
LATERAL BALANCE	0	0

PART VI

WEIGHT (Kg)		41.7
	ARM (mm)	**MOMENT (Kgmm)**
LONGITUDINAL BALANCE	4469.71	186387
LATERAL BALANCE	0.24	9.9

PART VII

WEIGHT (Kg)		72.2
	ARM (mm)	**MOMENT (Kgmm)**
LONGITUDINAL BALANCE	4476	323167.2
LATERAL BALANCE	-1	-72.2

PART VIII

WEIGHT (Kg)		44
	ARM (mm)	**MOMENT (Kgmm)**
LONGITUDINAL BALANCE	4445.42	195598.4
LATERAL BALANCE	0.59	25.8

PART IX

WEIGHT (Kg)		73
	ARM (mm)	**MOMENT (Kgmm)**
LONGITUDINAL BALANCE	4462	325726
LATERAL BALANCE	0	0

PART X

WEIGHT (Kg)		0.6
	ARM (mm)	**MOMENT (Kgmm)**
LONGITUDINAL BALANCE	2396	1437.6
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.	All
DM02	39-X-52-11-01-00A-520A-K	Left/Right cockpit door - Remove procedure	X
DM03	39-X-52-11-01-00A-720A-K	Left/Right cockpit door - Install procedure	X

2) ACRONYMS

CTRL	Control
FWD	Forward
LWR	Lower
MMH	Maintenance Man Hours
SB	Service Bulletin
WL	Water Level

3) ANNEX

N.A.

J. PUBLICATIONS AFFECTED

N.A.

K. SOFTWARE ACCOMPLISHMENT SUMMARY

N.A.

2. MATERIAL INFORMATION

A. REQUIRED MATERIALS

1) PARTS

PART I

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
1	**4G9580F00311**		**KIT COCKPIT FLOOR BALLISTIC PROTECTION**	**REF**	**.**		**-**
2	**3G5311A24711**		**COCKPIT FLOOR PROVISION FOR BALLISTIC PROTECTION**	**REF**	**..**		**-**
3	**3G5306P36111**		**PILOT FOOTBOARD RETRO-MOD**	**REF**	**...**		**-**
4	SL10414-4-4A		Insert	4	....		-
5	**3G5306P36211**		**COPILOT FOOTBOARD RETRO-MOD**	**REF**	**...**		**-**
6	SL10414-4-4A		Insert	4	....		-
7	**3G5310A65511**		**PILOT FLOOR STRUCTURAL PROVISION**	**REF**	**...**		**-**
8	NAS1835A4		Insert	4	....		-
9	**3G5310A65711**		**COPILOT FLOOR STRUCTURAL PROVISION**	**REF**	**...**		**-**
10	NAS1835A4		Insert	3	....		-
11	NAS1835A4		Insert	7	...		-

PART II

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
12	**4G9580F00311**		**KIT COCKPIT FLOOR BALLISTIC PROTECTION**	**REF**	**.**		**-**
13	**3G9580A03211**		**COCKPIT FLOOR BALLISTIC PROTECTION INSTALLATION**	**REF**	**..**		**-**
14	3G9580V05151		Pilot lateral floor protection	1	...		-
15	3G9580V05251		Copilot lateral floor protection	1	...		-
16	3G9580V05351		Pilot under seat protection	1	...		-
17	3G9580V05451		Copilot under seat protection	1	...		-
18	3G9580V05551		Pilot FWD protection	1	...		-
19	3G9580V05651		Copilot FWD protection	1	...		-
20	AN525-416R18		Screw	23	...		-

PART III

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
21	**4G9580F00411**		**KIT COCKPIT DOOR BALLISTIC PROTECTION**	**REF**	**.**		**-.**
22	**3G5311A25111**		**BALLISTIC PROTECTION COCKPIT DOOR PROVISION**	**REF**	**..**		**-**
23	**3G5310A68511**		**PILOT COCKPIT STRUCTURAL VARIANT**	**REF**	**...**		**-**
24	3G5330A28451		Shim	1	....		-
25	999-0065-05-95		Washer	2	....		-
26	999-5000-30-118		Insert	2	....		-
27	MS21069L3		Nut plate	2	....		-

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
57	**3G5310A68611**		**COPILOT COCKPIT STRUCT VARIA**	**REF**	**...**		**-**
28	3G5330A28451		Shim	1	....		-
29	999-0065-05-95		Washer	2	....		-
30	999-5000-30-118		Insert	2	....		-
31	MS21069L3		Nut plate	2	....		-
32	**3G5311A27811**		**DOOR PROVISION FOR BALLISTIC PROTECTION**	**REF**	**...**		**-**
33	A407A3C2		Nut plate	2	....		-
34	**3G5320P01011**		**COCKPIT LINER RETROMODIFICATION**	**REF**	**...**		**-**
35	A407A3C2P		Nut plate	8	....		-
36	AN525-10R7		Screw	8	....		-
37	3G5320A13851		Pilot cover LH	1	....		-
38	3G5320A13951		Pilot cover RH	1	....		-
39	3G5320A14053		Cover LH	1	....		-
40	3G5320A14153		Cover RH	1	....		-

PART IV

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
41	**4G9580F00411**		**KIT COCKPIT DOOR BALLISTIC PROTECTION**	**REF**	**.**		**-**
42	**3G9580P00211**		**COCKPIT BALLISTIC PROTECTION RETRO MOD**	**REF**	**..**		**-**
43	3G5320A13651		Pilot lower support	1	...		-
44	3G5320A13751		Copilot lower support	1	...		-
45	**3G9580A03111**		**COCKPIT BALLISTIC PROT FIXED PARTS**	**REF**	**..**		**-**
46	3G5320A14251		Upper cover LH	1	...		-
47	3G5320A14351		Upper cover RH	1	...		-
48	3G5320A14651		Lower cover LH	1	...		-
49	3G5320A14751		Lower cover RH	1	...		-
50	3G5330A28531		Support LH assy	1	...		-
51	3G5330A28631		Support RH assy	1	...		-
52	3G5330A28731		Upper support LH	1	...		-
53	3G5330A28831		Upper support RH	1	...		-
54	3G6700A04631		Lower collar assy	1	...		-
55	3G6700A04731		Gaiter assy	1	...		-
56	3G9580A02231		Junction assy	2	...		-
57	3G9580A02351		Special bushing	2	...		-
58	3G9580A02451		Special washer	2	...		-
59	3G9580A02551		Peeling shim	2	...		-
60	A297A04TW03		Rivet blind	8	...		-
61	AN3-5A		Bolt	4	...		-
62	AN525-10R9		Screw machine	6	...		-
63	MS21225-6		Nut	2	...		-
64	MS24665-174		Pin	2	...		-
65	MS27039-1-07		Screw machine	7	...		-
66	NAS1149D0332K		Washer	11	...		-
67	NAS1149D0632K		Washer	2	...		-
68	NAS1149DN832K		Washer	16	...		-
69	NAS1802-08-9		Screw	16	..		-

PART V

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
70	**4G9580F00411**		**KIT COCKPIT DOOR BALLISTIC PROTECTION**	**REF**	**.**		**-**
71	**3G9580A03011**		**COCKPIT BALLISTIC PROT REMOVABLE PARTS**	**REF**	**..**		**-**
72	3G9580A00451		Lateral block	2	...		-
73	3G9580A02631		Block assy	4	...		-
74	3G9580A03331		Door ballistic protection assy LH	1	...		-
75	3G9580A03431		Door ballistic protection assy RH	1	...		-
76	3G9580A03551		Spacer	2	...		-
77	3G9580A03651		Spacer	2	...		-
78	3G9580A03751		Spacer	2	...		-
79	3G9580V03651		Ballistic plate	2	...		-
80	AN3-10		Bolt	4	...		-
81	AN525-10R14		Screw	2	...		-
82	AN525-10R20		Screw	2	...		-
83	AN525-10R22		Screw	2	...		-
84	MS21225-3		Nut	4	...		-
85	MS24665-132		Pin	4	...		-
86	NAS1149D0332K		Washer	8	...		-

PART VI

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
87	**4G9580F00711**		**KIT CABIN PAX BALLISTIC PROT VIP DELUX**	**REF**	**.**		**-**
88	**3G5311A20011**		**BALISTIC PROTECTION STRUCTURAL PROVISION**	**REF**	**..**		**-**
89	NAS1832-3-4		Insert	20	...		-
90	**3G9580A04111**		**BALLISTIC PROTECTION FIXED PARTS**	**REF**	**..**		**-**
91	3G9580V02751		Ballistic plate	4	...		-
92	3G9580V02951		Ballistic plate	2	...		-
93	3G9580V03251		Ballistic plate	2	...		-
94	3G9580V07451		Ballistic plate	4	...		-
95	MS24694-S101		Screw	228	...		-
96	MS24694-S103		Screw	4	...		-
97	MS24694-S104		Screw	4	...		-
98	AN525-10R9		Screw	333	...		-

PART VII

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
99	**4G9580F00711**		**KIT CABIN PAX BALLISTIC PROT VIP DELUX**	**REF**	**.**		**-**
100	**3G9580A04011**		**BALLISTIC PROTECTION INSTALLATION**	**REF**	**..**		**-**
101	**3G2500P00711**		**DOORSTEP RETRO MOD**	**REF**	**...**		**-**
102	3G2500A06631		Doorstep LH assy	1	....		-
103	3G2500A06731		Doorstep RH assy	1	....		-
104	MS24694-C64		Screw	16	....		-
105	3G9580V01051		Ballistic protection	1	...		-
106	3G9580V01551		Ballistic protection	1	...		-

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
107	3G9580V06051		Ballistic protection	1	...		-
108	3G9580V06151		Ballistic protection	1	...		-
109	3G9580V06251		Ballistic protection	1	...		-
110	3G9580V06351		Ballistic protection	1	...		-
111	3G9580V06451		Ballistic protection	1	...		-
112	3G9580V06551		Ballistic protection	1	...		-
113	3G9580V06651		Ballistic protection	1	...		-
114	3G9580V06751		Ballistic protection	1	...		-
115	AN525-10R11		Screw	20	...		-
116	AN525-10R12		Screw	2	...		-
117	AN525-10R16		Screw	28	...		-
118	AN525-10R18		Screw	4	...		-
119	NAS1351C4H16		Screw	2	...		-

PART VIII

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
120	**4G9580F00811**		**KIT CABIN PAX BALLISTIC PROT 12 PAX**	**REF**	**.**		**-**
121	**3G5311A20011**		**BALISTIC PROTECTION STRUCTURAL PROVISION**	**REF**	**..**		**-**
122	NAS1832-3-4		Insert	20	...		-
123	**3G9580A04311**		**BALLISTIC PROTECTION FIXED PARTS**	**REF**	**..**		**-**
124	3G9580V03251		Ballistic plate	6	...		-
125	MS24694-S101		Screw	192	...		-
126	AN525-10R9		Screw	333	...		-

PART IX

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
127	**4G9580F00811**		**KIT CABIN PAX BALLISTIC PROT 12 PAX**	**REF**	**.**		**-**
128	**3G9580A04211**		**BALLISTIC PROTECTION INSTALLATION**	**REF**	**..**		**-**
129	**3G2500P00811**		**DOORSTEP RETRO MOD**	**REF**	**...**		**-**
130	3G2500A06431		Doorstep assy LH	1	....		-
131	3G2500A06531		Doorstep assy RH	1	....		-
132	MS24694-C64		Screw	18	....		-
133	3G9580V01051		Ballistic protection	1	...		-
134	3G9580V01151		Ballistic protection	1	...		-
135	3G9580V01451		Ballistic protection	1	...		-
136	3G9580V01551		Ballistic protection	1	...		-
137	3G9580V01651		Ballistic protection	1	...		-
138	3G9580V01751		Ballistic protection	1	...		-
139	3G9580V02651		Ballistic protection	1	...		-
140	3G9580V03051		Ballistic protection	1	...		-
141	3G9580V06651		Ballistic protection	1	...		-
142	3G9580V06751		Ballistic protection	1	...		-
143	3G9580V06851		Ballistic protection	1	...		-
144	3G9580V06951		Ballistic protection	1	...		-
145	3G9580V07251		Ballistic protection	1	...		-
146	3G9580V07351		Ballistic protection	1	...		-
147	AN525-10R11		Screw	20	...		-

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
148	AN525-10R12		Screw	2	...		-
149	AN525-10R16		Screw	28	...		-
150	AN525-10R18		Screw	4	...		-
151	NAS1351C4H16		Screw	2	...		-

PART X

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
152	**3G5206P00111**		**EMERGENCY RELEASE MECHANISM INSTALLATION**	**REF**	**.**		**-**
153	3G5211A13451		Lever	2	..		-
154	109-0323-04-1		Pin	2	..		-
155	109-0323-05-1		Support assy	2	..		-
156	109-0323-27-3	109-0323-27-101M01	Handle lh pilot	1	..		-
157	109-0323-27-4	109-0323-27-102	Handle ay	1	..		-
158	109-0855-65-101		Saddle assy	2	..		-
159	3G5206P00131	109-0855-66-101	Cover assy,lh	1	..		-
160	3G5206P00132	109-0855-66-102	Cover assy,rh	1	..		-
161	3G2580A51451	3G2580A51451A1	Cover	2	..		-
162	A246A001-1		Decal	2	..		-
163	MS24693-S6		Screw	2	..		-
164	3G5206P00251		Support right	1	..		-
165	3G5206P00351		Support left	1	..		-
166	3G5206P00431		Lower connecting link assy	2	..		-
167	3G5206P00531		Upper connecting link assy	2	..		-
168	3G5206P00651		Pin lower	2	..		-
169	3G5206P00751		Pin upper	2	..		-
170	999-0050-21-413	AW003BR06-350C	Bearing, sleeve flanged	2	..		-
171	MS16624-1056		Ring	4	..		-
172	MS20392-2C9		Pin	8	..		-
173	MS21069L3		Nut, self-locking plate	12	..		-
174	MS21075L04N		Nut, self-locking plate	2	..		-
175	MS21075L08	MS21075L08N	Nut, self-locking plate	12	..		-
176	MS24665-86		Pin, cotter	8	..		-
177	MS24693-272	MS24693-S272	Screw	4	..		-
178	MS27039-0808		Screw	12	..		-
179	MS27039-1-07		Screw	12	..		-
180	MS9048-072	NAS561C3-11	Pin, spring	2	..		-
181	NAS1097AD3-7		Rivet	0,1 kg	..		-
182	NAS620-10L		Washer	8	..		-
183	NAS620-8		Washer	12	..		-

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
184	Code No. 900004603	Adhesive EA934NA (C054)	AR	(1)	I,III, VI, VIII
185	Code No. 900000581	Adhesive EA9309.3NA (C021)	AR	(1)	III
186	Code No. 900001596	Sealant Proseal 890 (C153)	AR	(1)	III

#	SPEC./LHD CODE NUMBER	DESCRIPTION	Q.TY	NOTE	PART
	Commercial	Aluminum plate thk 1.6 mm	60x30 mm	(1)	X
	199-05-002 Type I Class 2	Adhesive	AR	(1)	X

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

3) LOGISTIC MATRIX

N.A.

NOTE

(1) Item to procured as local supply.

B. SPECIAL TOOLS

#	P/N	DESCRIPTION	Q.TY	NOTE	PART
187	3G5310H68511A003A	Positioning and drilling gig LH	1		III
188	3G5310H68611A003A	Positioning and drilling gig RH	1		III

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) 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) During the installation of bonding braids or components requiring grounding, clean the surface structure in order to obtain a good ground contact.

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

f) Exposed thread surface and nut must be protect using a layer of tectyl according to MIL-C-16173 grade I.

g) All lengths are in mm.

PART I

1. In accordance with 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. Gain access to the area affected by the installation and perform the cockpit floor provision P/N 3G5311A24711 as described in the following procedure:
   - 2.1 Perform the co-pilot footboard retro modification P/N 3G5306P36211 as described in the following procedure:
     - 2.1.1 With reference to Figure 2 View A, temporarily position the co-pilot footboard protection P/N 3G9580V05651 on the footboard LH assy P/N 3G5331A01531 in its installation position.
     - 2.1.2 Countermark the position of the n°4 holes to drill on the on the footboard LH assy.

2.1.3 With reference to Figure 2 Section B-B, drill n°4 holes Ø19.5 thru upper skin and core in the previously countermarked positions and install n°4 inserts P/N SL10414-4-4A by means of adhesive EA934NA.

2.1.4 Remark the co-pilot footboard into P/N 3G5306P36211.

2.2 Perform the pilot footboard retro modification P/N 3G5306P36111 as described in the following procedure:

2.2.1 With reference to Figure 3 View C, temporarily position the pilot footboard protection P/N 3G9580V05551 on the footboard RH assy P/N 3G5331A01431 in its installation position.

2.2.2 Countermark the position of the n°4 holes to drill on the on the footboard RH assy.

2.2.3 With reference to Figure 3 Section D-D, drill n°4 holes Ø19.5 thru upper skin and core in the previously countermarked positions and install n°4 inserts P/N SL10414-4-4A by means of adhesive EA934NA.

2.2.4 Remark the co-pilot footboard into P/N 3G5306P36111.

2.3 Perform the co-pilot floor structural provision P/N 3G5310P65711 as described in the following procedure:

2.3.1 With reference to Figure 4 View E, temporarily position the co-pilot lateral floor protection P/N 3G9580V05251 on the co-pilot floor panel in its installation position.

2.3.2 Countermark the position of the n°4 holes to drill on the co-pilot floor panel.

2.3.3 With reference to Figure 4 Section F-F, drill n°3 holes Ø19.05÷19.2 thru upper skin and core in the previously countermarked positions and install n°3 inserts P/N NAS1935A4 by means of adhesive EA934NA.

2.4 Perform the pilot floor structural provision P/N 3G5310P65511 as described in the following procedure:

2.4.1 With reference to Figure 5 View G, temporarily position the pilot lateral floor protection P/N 3G9580V05151 on the pilot floor panel in its installation position.

2.4.2 Countermark the position of the n°4 holes to drill on the pilot floor panel.

2.4.3 With reference to Figure 4 Section H-H, drill n°4 holes Ø19.05÷19.2 thru upper skin and core in the previously countermarked positions and install n°4 inserts P/N NAS1935A4 by means of adhesive EA934NA.

2.5 With reference to Figure 6 View L, temporarily position the co-pilot under seat protection P/N 3G9580V05451 on the co-pilot floor panel in its installation

position.

2.6 Countermark the position of the n°4 holes to drill on the co-pilot floor panel.

2.7 With reference to Figure 6 Section M-M, drill n°4 holes Ø19.05 ÷19.2 thru upper skin and core in the previously countermarked positions and install n°4 inserts P/N NAS1935A4 by means of adhesive EA934NA.

2.8 With reference to Figure 7 View N, temporarily position the pilot under seat protection P/N 3G9580V05351 on the pilot floor panel coordinating the installation position with the indicated insert.

2.9 Countermark the position of the n°3 holes to drill on the pilot floor panel.

2.10 With reference to Figure 7 Section P-P, drill n°3 holes Ø19.05 ÷19.2 thru upper skin and core in the previously countermarked positions and install n°3 inserts P/N NAS1935A4 by means of adhesive EA934NA.

3. In accordance with weight and balance changes, update the Chart A (see Rotorcraft Flight Manual, Part II, section 6).
4. Return the helicopter to flight configuration and record for compliance with Part I of this Service Bulletin on the helicopter logbook.
5. Send the attached compliance form to the following mail box:

   engineering.support.lhd@leonardocompany.com

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

PART II

1. In accordance with 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. Gain access to the area affected by the installation and perform the cockpit floor ballistic protection installation P/N 3G9580A03211 as described in the following procedure:
   - 2.1 With reference to Figure 8 LH isoview, install the co-pilot footboard protection P/N 3G9580V05651 by means of N°4 screws P/N AN525-416R18.
   - 2.2 With reference to Figure 8 LH isoview, install the co-pilot lateral floor protection P/N 3G9580V05251 by means of N°4 screws P/N AN525-416R18.
   - 2.3 With reference to Figure 8 LH isoview, install the co-pilot under seat protection P/N 3G9580V05451 by means of N°4 screws P/N AN525-416R18.
   - 2.4 With reference to Figure 8 RH isoview, install the pilot footboard protection P/N 3G9580V05551 by means of N°4 screws P/N AN525-416R18.
   - 2.5 With reference to Figure 8 RH isoview, install the pilot lateral floor protection P/N 3G9580V05151 by means of N°4 screws P/N AN525-416R18.
   - 2.6 With reference to Figure 8 RH isoview, remove existing screw on the floor and install the pilot under seat protection P/N 3G9580V05351 by means of N°4 screws P/N AN525-416R18.
3. In accordance with weight and balance changes, update the Chart A (see Rotorcraft Flight Manual, Part II, section 6).
4. Return the helicopter to flight configuration and record for compliance with Part II of this Service Bulletin on the helicopter logbook.
5. Send the attached compliance form to the following mail box:

   engineering.support.lhd@leonardocompany.com

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

PART III

1. In accordance with 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. Gain access to the area affected by the installation and perform the Ballistic protection cockpit door provision P/N 3G5311A25111 as described in the following procedure:
   - 2.1 Perform the door provision for ballistic protection P/N 3G5311A27811 as described in the following procedure:
     - 2.1.1 With reference to Figure 10, remove the indicated screws and temporarily install ballistic plate P/N 3G9580V03651, a spacer P/N 3G9580A03551 and a spacer P/N 3G9580A03751 by means of a screw P/N AN525-10R20 and a screw P/N AN525-10R20.
     - 2.1.2 With reference to Figure 10, countermark the indicated hole position on existing door cover assy LH P/N 3G5211A05952.
     - 2.1.3 With reference to Figure 10, remove the door cover assy LH P/N 3G5211A05952; store the hardware for later re-use.
     - 2.1.4 With reference to Figure 10, drill hole holes Ø6.35 ÷6.48 thru door cover assy LH P/N 3G5211A05952 in the previously countermarked position.
     - 2.1.5 With reference to Figure 10, install a nutplate P/N A407A3C2 by means of adhesive EA9309.3NA.
     - 2.1.6 Re-install the cover assy on the door by means of the existing hardware.
     - 2.1.7 Perform the steps 2.1.1 thru 2.1.6 for the door cover assy RH P/N 3G5211A06052.
   - 2.2 Perform co-pilot cockpit structural variant P/N 3G5310A68611 as described in the following procedure:
     - 2.2.1 With reference to Figure 12 Detail A, remove the existing gaiter assy P/N 3G6700A02531 and collar P/N 3G6700A03431 from the cockpit. Store the hardware for later re-use.
     - 2.2.2 With reference to Figure 12 Detail A, remove the indicated LH cover P/N 3G5320A09233 from the cockpit.
     - 2.2.3 With reference to Figure 11 View A STEP 1 drill hole Ø19.5 thru co-pilot lower support P/N 3G5320A13651 in the indicated position.
     - 2.2.4 With reference to Figure 11 STEP 2, install a special bushing P/N 3G9580A02351 by means of n°4 rivets P/N A297A04TW03.

2.2.5 With reference to Figure 11 STEP 3, install a junction assy P/N 3G9580A02231 by means of a special washer P/N 3G9580A02451, a washer P/N NAS1149D0632K and a nut P/N MS21225-6.

2.2.6 With reference to Figure 11 View A STEP 3 and STEP 4, rotate the junction assy as shown then secure the nut by means of cotter pin P/N MS24665-174.

2.2.7 With reference to Figure 11 View A STEP 3 and STEP 4, drill n°4 holes Ø4.8 in the indicated positions, coordinating with the holes on the removed cover P/N 3G5320A09233 and holes on cockpit structure.

2.2.8 With reference to Figure 12 Detail C, install n°2 nutplates P/N MS21069L3 in the indicated positions by means of n°4 rivets P/N MS20426AD3.

2.2.9 With reference to Figure 12 Detail A drill n°2 holes Ø4.8 thru co-pilot lower support P/N 3G5320A13651, coordinating with hole positions on structure.

2.2.10 With reference to Figure 12 Detail, temporarily install the co-pilot lower support P/N 3G5320A13651 by means of n°7 screws P/N MS27039-1-07 and n°7 washers P/N as1149D0332K.

2.2.11 With reference to Figure 13 Detail EA, temporarily install the door ballistic protection assy LH P/N 3G9580A03331 by means of fast pin P/N NAS1336S2S11.

2.2.12 With reference to Figure 16 View H, remove the pilot door cover LH from the cockpit.

2.2.13 With reference to Figure 17 View M, remove the upper cover STA3120 from the cockpit.

2.2.14 With reference to Figure 13 Detail EB, temporarily position the upper support LH P/N 3G5330A28731 and relevant shim P/N 3G9580A02551 in the final installation position; countermark the n°2 hole positions on canopy structure.

2.2.15 Remove the door ballistic protection assy LH P/N 3G9580A03331 and relevant fast pin P/N NAS1336S2S11.

2.2.16 With reference to Figure 14 Detail F and Section FA-FA, drill n° 2 holes Ø9.50÷9.60 thru external skin and core of canopy and install a plate P/N 3G5330A28451 by means of n°2 inserts P/N 999-5000-30-118 and washers P/N 999-0065-05-65; use adhesive EA934NA for inserts installation.

2.2.17 Seal the plate and inserts with sealant Proseal 890.

2.2.18 With reference to Figure 14 Detail EB, temporarily install the upper support LH P/N 3G5330A28731 and relevant shim P/N 3G9580A02551 by means of n°2 bolts P/N AN3-5A and n°2 washers P/N NAS1149D0332K.

2.3 Perform pilot cockpit structural variant P/N 3G5310A68511 as described in the following procedure:

2.3.1 With reference to Figure 12 Detail A, remove the indicated LH cover P/N 3G5320A09133 from the cockpit.

2.3.2 With reference to Figure 11 View A STEP 1 drill hole Ø19.5 thru pilot lower support P/N 3G5320A13672 in the indicated position.

2.3.3 With reference to Figure 11 STEP 2, install a special bushing P/N 3G9580A02351 by means of n°4 rivets P/N A297A04TW03.

2.3.4 With reference to Figure 11 STEP 3, install a junction assy P/N 3G9580A02231 by means of a special washer P/N 3G9580A02451, a washer P/N NAS1149D0632K and a nut P/N MS21225-6.

2.3.5 With reference to Figure 11 View A STEP 3 and STEP 4, rotate the junction assy as shown then secure the nut by means of cotter pin P/N MS24665-174.

2.3.6 With reference to Figure 11 View A STEP 3 and STEP 4, drill n°4 holes Ø4.8 in the indicated positions, coordinating with the holes on the removed cover P/N 3G5320A09233 and holes on cockpit structure.

2.3.7 With reference to Figure 12 Detail D, install n°2 nutplates P/N MS21069L3 in the indicated positions by means of n°4 rivets P/N MS20426AD3.

2.3.8 With reference to Figure 12 Detail B drill n°2 holes Ø4.8 thru pilot lower support P/N 3G5320A13751, coordinating with hole positions on structure.

2.3.9 With reference to Figure 12 Detail, temporarily install the pilot lower support P/N 3G5320A13751 by means of n°7 screws P/N MS27039-1-07 and n°7 washers P/N as1149D0332K.

2.3.10 With reference to Figure 13 Detail EA, temporarily install the door ballistic protection assy RH P/N 3G9580A03431 by means of fast pin P/N NAS1336S2S11.

2.3.11 With reference to Figure 16 View H, remove the pilot door cover RH from the cockpit.

2.3.12 With reference to Figure 17 View M, remove the upper cover STA3120 from the cockpit.

2.3.13 With reference to Figure 13 Detail EB, temporarily position the upper support RH P/N 3G5330A28831 and relevant shim P/N 3G9580A02551 in the final installation position; countermark the n°2 hole positions on canopy structure.

2.3.14 Remove the door ballistic protection assy RH P/N 3G9580A03431 and relevant fast pin P/N NAS1336S2S11.

2.3.15 With reference to Figure 14 Detail F and Section FA-FA, drill n° 2 holes Ø9.50÷9.60 thru external skin and core of canopy and install a plate P/N 3G5330A28451 by means of n°2 inserts P/N 999-5000-30-118 and washers P/N 999-0065-05-65; use adhesive EA934NA for inserts installation.

2.3.16 Seal the plate and inserts with sealant Proseal 890.

2.4 Perform the cockpit liner retromod P/N3G5320P01011 on LH side as described in the following procedure:

2.4.1 With reference to Figure 14 Detail EB, temporarily install the upper support LH P/N 3G5330A28731 and relevant shim P/N 3G9580A02551 by means of n°2 bolts P/N AN3-5A and n°2 washers P/N NAS1149D0332K.

2.4.2 With reference to Figure 13 Detail EA, temporarily install the door ballistic protection assy LH P/N 3G9580A03331 by means of fast pin P/N NAS1336S2S11.

2.4.3 With reference to Figure 15 Detail EC (STEP 6), temporarily install the lateral block P/N 3G9580A00451 on the support assy LH P/N 3G5330A28531 by means of n°2 bolts P/N AN3-10, n°4 washers P/N NAS1149D0332K and n°2 nut P/N MS21225-3.

2.4.4 With reference to Figure 15 Detail EC (STEP 7), temporarily position the support assy LH P/N 3G5330A28531 in its installation position in the canopy assy (WL 1715.0).

2.4.5 With reference to Figure 15 Detail G, ensure the door latch assy correctly engages the lateral block then countermark on the canopy the position of n°8 installation holes from the support assy LH P/N 3G5330A28531.

2.4.6 Remove the door ballistic protection assy LH P/N 3G9580A03331 and relevant fast pin P/N NAS1336S2S11.

2.4.7 With reference to Figure 15 Details GA and GB, drill n°8 holes Ø4.52÷4.65 thru the canopy.

2.4.8 With reference to Figure 15 Details GA and GB, temporarily install the support assy LH P/N 3G5330A28531 by means of n°8 screws P/N NAS1802-08-9 and n°8 washers P/N NAS1149DN816K.

2.4.9 With reference to Figure 16 Detail EC (STEP 9), remove the lateral block P/N 3G9580A00451 and relevant hardware from the support assy LH P/N 3G5330A28531.

2.4.10 With reference to Figure 16 Detail EC (STEP 9), temporarily install the LH upper and lower covers P/N 3G5320A14251 and P/N 3G5320A14651 on the support assy LH P/N 3G5330A28531.

2.4.11 With reference to Figure 16 View H, perform indicated cut-out thru the pilot door cover LH; coordinate the cut-out position with the installed support assy LH P/N 3G5330A28531.

2.4.12 With reference to Figure 16 View L and Detail J, drill n°2 holes Ø5.0 thru pilot door cover LH in the indicated position coordinating with the holes on pilot cover LH P/N 3G5320A28531.

2.4.13 With reference to Figure 16 View L, bond n°2 nutplates P/N A407A3C2P on pilot door cover LH by means of EA9309.3NA adhesive.

2.4.14 With reference to Figure 16 View K, drill n°4 holes Ø4.52÷4.65 on pilot door cover LH coordinating with the holes on canopy.

2.4.15 With reference to Figure 17 Views M and N, perform the indicated cut-out on the cover STA 3120.

2.4.16 With reference to Figure 17 Detail NA, drill an hole Ø5.0 thru cover STA 3120 and bond a nutplate P/N A407A3C2P by means of EA9309.3NA adhesive.

2.4.17 With reference to Figure 17 View M, perform the indicated cut-out on the existing upper pilot cover.

2.4.18 With reference to Figure 17 Detail MA, drill an hole Ø5.0 thru upper pilot cover and bond a nutplate P/N A407A3C2P by means of EA9309.3NA adhesive.

2.4.19 With reference to Figure 16 View H, re-install the pilot door cover RH in the cockpit.

2.4.20 With reference to Figure 17 View M, re-install the upper cover STA3120 in the cockpit.

NOTE

Perform the following steps 2.4.21 thru 2.4.28 only if Part IV of this Service Bulletin is not intended to be embodied immediately after Part III.

2.4.21 With reference to Figure 14 Detail EB, remove the upper support LH P/N 3G5330A28731, the shim P/N 3G9580A02551, n°2 bolts P/N AN3-5A and n°2 washers P/N NAS1149D0332K temporarily installed.

2.4.22 With reference to Figure 16 Detail EC (STEP 9), remove the LH upper and lower covers P/N 3G5320A14251 and P/N 3G5320A14651 from the support assy LH P/N 3G5330A28531.

2.4.23 With reference to Figure 15 Details GA and GB, remove the support assy LH P/N 3G5330A28531, n°8 screws P/N NAS1802-08-9 and n°8 washers P/N NAS1149DN816K temporarily installed.

2.4.24 With reference to Figure 16 Detail J, install the pilot cover LH P/N 3G5330A13851 by means of n°2 screws P/N AN525-10R7.

2.4.25 With reference to Figure 17 Detail P, install the cover LH P/N 3G5330A14053 by means of n°2 screws P/N AN525-10R7.

2.4.26 With reference to Figure 12 Detail A, remove the existing gaiter assy P/N 3G6700A02531 and collar P/N 3G6700A03431 from the cockpit. Store the hardware for later re-use.

2.4.27 With reference to Figure 11 View A STEP 1, remove co-pilot lower support P/N 3G5320A13651 temporarily installed.

2.4.28 With reference to Figure 12 Detail A, re-install the LH cover P/N 3G5320A09233 by means of existing hardware.

2.5 Repeat the step 2.4 to perform the cockpit liner retromod P/N3G5320P01011 on RH side.

3. In accordance with weight and balance changes, update the Chart A (see Rotorcraft Flight Manual, Part II, section 6).
4. Return the helicopter to flight configuration and record for compliance with Part III of this Service Bulletin on the helicopter logbook.
5. Send the attached compliance form to the following mail box:

   engineering.support.lhd@leonardocompany.com

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

PART IV

1. In accordance with 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. Perform the cockpit ballistic protection fixed parts installation P/N 3G9580A03111 as described in the following procedure:
   - 2.1 With reference to Figure 12 Detail A, remove the existing gaiter assy P/N 3G6700A02531 and collar P/N 3G6700A03431 from the cockpit.
   - 2.2 With reference to Figure 12 Detail A, remove the indicated LH cover P/N 3G5320A09233 from the cockpit.
   - 2.3 With reference to Figure 12 Detail A, install the co-pilot lower support P/N 3G5320A13651 by means of n°7 screws P/N MS27039-1-07 and n°7 washers P/N as1149D0332K.
   - 2.4 With reference to Figure 12 Detail A, install the new gaiter assy P/N 3G6700A04731 and collar P/N 3G6700A04631 by means of existing hardware.
   - 2.5 With reference to Figure 14 Detail EB, remove the cover LH P/N 3G5330A14053 and install the upper support LH P/N 3G5330A28731 and relevant shim P/N 3G9580A02551 by means of n°2 bolts P/N AN3-5A and n°2 washers P/N NAS1149D0332K.
   - 2.6 With reference to Figure 15 Details GA and GB, remove the pilot cover LH P/N 3G5330A13851 and install the support assy LH P/N 3G5330A28531 by means of n°8 screws P/N NAS1802-08-9 and n°8 washers P/N NAS1149DN816K.
   - 2.7 With reference to Figure 12 Detail B, remove the indicated RH cover P/N 3G5320A09133 from the cockpit.
   - 2.8 With reference to Figure 12 Detail B, install the pilot lower support P/N 3G5320A13651 by means of n°7 screws P/N MS27039-1-07 and n°7 washers P/N as1149D0332K.
   - 2.9 With reference to Figure 14 Detail EB, remove the cover RH P/N 3G5330A14153 and install the upper support RH P/N 3G5330A28831 and relevant shim P/N 3G9580A02551 by means of n°2 bolts P/N AN3-5A and n°2 washers P/N NAS1149D0332K.
   - 2.10 With reference to Figure 15 Details GA and GB, remove the pilot cover RH P/N 3G5330A13951 and install the support assy RH P/N 3G5330A28631 by means of n°8 screws P/N NAS1802-08-9 and n°8 washers P/N NAS1149DN816K.

3. In accordance with weight and balance changes, update the Chart A (see Rotorcraft Flight Manual, Part II, section 6).
4. Return the helicopter to flight configuration and record for compliance with Part IV of this Service Bulletin on the helicopter logbook.
5. Send the attached compliance form to the following mail box:

   engineering.support.lhd@leonardocompany.com

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

PART V

1. In accordance with 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. Perform the cockpit ballistic protection removable parts installation P/N 3G9580A03011 on LH side as described in the following procedure:
   2.1 With reference to Figure 18 Detail A, install n°2 block assy P/N 3G9580A02631 in the indicated position by means of existing hardware.
   2.2 With reference to Figure 18 Detail BC, install the lateral block P/N 3G9580A00451 on the support assy LH P/N 3G5330A28531 by means of n°2 bolts P/N AN3-10, n°4 washers P/N NAS1149D0332K and n°2 nut P/N MS21225-3; lock the nuts by means of n°2 cotter pins P/N MS24665-132.
   2.3 With reference to Figure 18 Details BA and BD, install the ballistic protection assy LH P/N 3G9580A03331 by means of fast pin P/N NAS1336S2S11.
   2.4 With reference to Figure 18 Detail BD, if necessary to assure correct latch engagement into lateral block adjust the door rod-end height rotating the indicated nut. Lock the nut by means of lockwire.
   2.5 With reference to Figure 19 Detail CA, remove the indicated screws and install ballistic plate P/N 3G9580V03651, a spacer P/N 3G9580A03551, a spacer P/N 3G9580A03651 and a spacer P/N 3G9580A03751 by means of a screw P/N AN525-10R20, P/N AN525-10R140 and a screw P/N AN525-10R20.
3. Repeat step 2 again to perform the cockpit ballistic protection removable parts installation P/N 3G9580A03011 on RH side.
4. In accordance with weight and balance changes, update the Chart A (see Rotorcraft Flight Manual, Part II, section 6).
5. Return the helicopter to flight configuration and record for compliance with Part V of this Service Bulletin on the helicopter logbook.
6. Send the attached compliance form to the following mail box:

   engineering.support.lhd@leonardocompany.com

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

PART VI

1. In accordance with 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. Gain access to the area affected by the installation and perform the cabin floor provision P/N 3G5311A20011 as described in the following procedure:
   2.1 With reference to Figure 21 Detail A, temporarily position all the following ballistic protections on the floor:
   - 3G9580V01051
   - 3G9580V01551
   - 3G9580V06051
   - 3G9580V06151
   - 3G9580V06251
   - 3G9580V06351
   - 3G9580V06451
   - 3G9580V06551
   - 3G9580V06651
   - 3G9580V06751

   2.2 With reference to Figure 21 Detail A and View C, countermark the indicated n°20 hole positions on relevant floor panels.
   2.3 With reference to Figure 21 View C and Section B-B, drill n°20 holes Ø14.25÷14.38 in the countermarked positions and install n°20 inserts P/N NAS1832-3-4 by means of EA934NA adhesive.
   2.4 Remove all the ballistic protection temporarily positioned from the cabin.
3. Perform the ballistic protection fixed parts installation P/N 3G9580A04111 as described in the following procedure:
   3.1 With reference to Figure 22 Detail B, replace the n°333 screws P/N MS27039-1-09 securing the floor panels with n°333 screws P/N AN525-10R9.
   3.2 With reference to Figure 22 Detail B, remove the indicated n°2 seat-tracks P/N 3G5330A13952 and relevant hardware; re-install the n°2 seat-tracks and relevant n°2 ballistic plates P/N 3G9580V02951 by means of n°8 screws P/N MS24694-S101.
   3.3 With reference to Figure 22 Detail B, remove the indicated n°4 seat-tracks P/N 3G5330A38652 and relevant hardware; re-install the n°4 seat-tracks and relevant n°4 ballistic plates P/N 3G9580V02751 by means of n°32 screws

P/N MS24694-S101 and n°4 screws P/N P/N MS24694-S104.

3.4 With reference to Figure 22 Detail B, remove the indicated n°4 seat-tracks P/N 3G5330A02052 and relevant hardware; re-install the n°4 seat-tracks and relevant n°4 ballistic plates P/N 3G9580V07451 by means of n°32 screws P/N MS24694-S101 and n°4 screws P/N P/N MS24694-S104.

3.5 With reference to Figure 22 Detail B, remove the indicated n°2 seat-tracks P/N 3G5330A21953 and relevant hardware; re-install the n°2 seat-tracks and relevant n°2 ballistic plates P/N 3G9580V03251 by means of n°64 screws P/N MS24694-S101 and n°4 screws P/N P/N MS24694-S103.

4. Return the helicopter to flight configuration and record for compliance with Part VI of this Service Bulletin on the helicopter logbook.

5. Send the attached compliance form to the following mail box:

engineering.support.lhd@leonardocompany.com

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

PART VII

1. In accordance with 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. Perform the ballistic protection installation P/N 3G9580A04011 as described in the following procedure:
   - 2.1 With reference to Figure 24 Detail D, remove the RH doorstep assy P/N 3G2500A05031 from the helicopter.
   - 2.2 With reference to Figure 24 Detail D, remove the LH doorstep assy P/N 3G2500A05131 from the helicopter.
   - 2.3 With reference to Figure 24 Detail C, remove the existing hardware and install the ballistic protection P/N 3G9580V06051 by means of n°4 screws P/N AN525-10R16 and n°2 screws P/N AN525-10R11.
   - 2.4 With reference to Figure 24 Detail C, remove the existing hardware and install the ballistic protection P/N 3G9580V06151 by means of n°4 screws P/N AN525-10R16 and n°2 screws P/N AN525-10R11.
   - 2.5 With reference to Figure 24 Detail C, remove the existing hardware and install the ballistic protection P/N 3G9580V06251 by means of n°4 screws P/N AN525-10R16, a screw P/N AN525-10R18, a screw P/N NAS1351C4H16 and n°3 screws P/N AN525-10R11.
   - 2.6 With reference to Figure 24 Detail C, remove the existing hardware and install the ballistic protection P/N 3G9580V06351 by means of n°4 screws P/N AN525-10R16, a screw P/N AN525-10R18, a screw P/N NAS1351C4H16 and n°3 screws P/N AN525-10R11.
   - 2.7 With reference to Figure 24 Detail C, remove the existing hardware and install the ballistic protection P/N 3G9580V06451 by means of n°4 screws P/N AN525-10R16, a screw P/N AN525-10R18 and n°3 screws P/N AN525-10R11.
   - 2.8 With reference to Figure 24 Detail C, remove the existing hardware and install the ballistic protection P/N 3G9580V01051 by means of n°2 screws P/N AN525-10R16 and n°2 screws P/N AN525-10R11.
   - 2.9 With reference to Figure 24 Detail C, remove the existing hardware and install the ballistic protection P/N 3G9580V01551 by means of n°2 screws P/N AN525-10R16 and n°2 screws P/N AN525-10R11.
   - 2.10 With reference to Figure 24 Detail C, remove the existing hardware and install the ballistic protection P/N 3G9580V06651 by means of a screw P/N AN525-10R16 and a screw P/N AN525-10R12.

2.11 With reference to Figure 24 Detail C, remove the existing hardware and install the ballistic protection P/N 3G9580V06751 by means of a screw P/N AN525-10R16 and a screw P/N AN525-10R12.

2.12 With reference to Figure 24 Detail D and section E-E, install the LH doorstep assy P/N 3G2500A06731 by means of n°3 screws P/N MS24694-C64 and n°2 existing screws P/N MS24694-C50.

2.13 With reference to Figure 24 Detail D and section E-E, install the FWD RH doorstep assy P/N 3G2500A06631 by means of n°6 screws P/N MS24694-C64 and n°5 existing screws P/N MS24694-C50.

3. Return the helicopter to flight configuration and record for compliance with Part VII of this Service Bulletin on the helicopter logbook.

4. Send the attached compliance form to the following mail box:

engineering.support.lhd@leonardocompany.com

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

PART VIII

1. In accordance with 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. Gain access to the area affected by the installation and perform the cabin floor provision P/N 3G5311A20011 as described in the following procedure:
   2.1 With reference to Figure 26 Detail A, temporarily position all the following ballistic protections on the floor:
   - 3G9580V01051
   - 3G9580V01151
   - 3G9580V01451
   - 3G9580V01551
   - 3G9580V01651
   - 3G9580V01751
   - 3G9580V02651
   - 3G9580V03051
   - 3G9580V06651
   - 3G9580V06751
   - 3G9580V06851
   - 3G9580V06951
   - 3G9580V07251
   - 3G9580V07351

   2.2 With reference to Figure 26 Detail A and View C, countermark the indicated n°20 hole positions on relevant floor panels.
   2.3 With reference to Figure 26 View C and Section B-B, drill n°20 holes Ø14.25÷14.38 in the countermarked positions and install n°20 inserts P/N NAS1832-3-4 by means of EA934NA adhesive.
   2.4 Remove all the ballistic protection temporarily positioned from the cabin.
3. Perform the ballistic protection fixed parts installation P/N 3G9580A04311 as described in the following procedure:
   3.1 With reference to Figure 27 Detail B, replace the n°292 screws P/N MS27039-1-09 securing the floor panels with n°292 screws P/N AN525-10R9.
   3.2 With reference to Figure 27 Detail B, remove the existing hardware and install n°8 screws P/N AN524-416R9.
   3.3 With reference to Figure 27 Detail B, remove the indicated n°2 seat-tracks

P/N 3G5330A21953 and relevant hardware; re-install the n°2 seat-tracks and relevant n°2 ballistic plates P/N 3G9580V03251 by means of n°64 screws P/N MS24694-S101 and n°4 screws P/N P/N MS24694-S104.

3.4 With reference to Figure 27 Detail B, remove the indicated n°4 seat-tracks P/N 3G5330A21953 and relevant hardware; re-install the n°4 seat-tracks and relevant n°2 ballistic plates P/N 3G9580V03251 by means of n°128 screws P/N MS24694-S101 and n°8 screws P/N P/N MS24694-S103.

4. Return the helicopter to flight configuration and record for compliance with Part VIII of this Service Bulletin on the helicopter logbook.
5. Send the attached compliance form to the following mail box:

engineering.support.lhd@leonardocompany.com

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

PART IX

1. In accordance with 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. Perform the ballistic protection installation P/N 3G9580A04011 as described in the following procedure:
   - 2.1 With reference to Figure 29 Detail D, remove the RH doorstep assy P/N 3G2500A05031 from the helicopter.
   - 2.2 With reference to Figure 29 Detail D, remove the LH doorstep assy P/N 3G2500A05131 from the helicopter.
   - 2.3 With reference to Figure 28 Detail C, remove the existing hardware and install the ballistic protection P/N 3G9580V06851 by means of n°2 screws P/N AN525-10R16.
   - 2.4 With reference to Figure 28 Detail C, remove the existing hardware and install the ballistic protection P/N 3G9580V06951 by means of n°2 screws P/N AN525-10R16.
   - 2.5 With reference to Figure 28 Detail C, remove the existing hardware and install the ballistic protection P/N 3G9580V01451 by means of n°4 screws P/N AN525-10R16 and n°2 screws P/N AN525-10R11.
   - 2.6 With reference to Figure 28 Detail C, remove the existing hardware and install the ballistic protection P/N 3G9580V02651 by means of n°4 screws P/N AN525-10R16 and n°2 screws P/N AN525-10R11.
   - 2.7 With reference to Figure 28 Detail C, remove the existing hardware and install the ballistic protection P/N 3G9580V07251 by means of n°4 screws P/N AN525-10R16, a screw P/N AN525-10R18, a screw P/N NAS1351C4H16 and n°3 screws P/N AN525-10R11.
   - 2.8 With reference to Figure 28 Detail C, remove the existing hardware and install the ballistic protection P/N 3G9580V07351 by means of n°4 screws P/N AN525-10R16, a screw P/N AN525-10R18, a screw P/N NAS1351C4H16 and n°3 screws P/N AN525-10R11.
   - 2.9 With reference to Figure 28 Detail C, remove the existing hardware and install the ballistic protection P/N 3G9580V01151 by means of n°2 screws P/N AN525-10R16, a screw P/N AN525-10R18 and n°2 screws P/N AN525-10R11.
   - 2.10 With reference to Figure 28 Detail C, remove the existing hardware and install the ballistic protection P/N 3G9580V03051 by means of n°2 screws P/N AN525-10R16, a screw P/N AN525-10R18 and n°2 screws

P/N AN525-10R11.

2.11 With reference to Figure 28 Detail C, remove the existing hardware and install the ballistic protection P/N 3G9580V01751 by means of n°2 screws P/N AN525-10R16 and n°2 screws P/N AN525-10R11.

2.12 With reference to Figure 28 Detail C, remove the existing hardware and install the ballistic protection P/N 3G9580V01651 by means of n°2 screws P/N AN525-10R16 and n°2 screws P/N AN525-10R11.

2.13 With reference to Figure 28 Detail C, remove the existing hardware and install the ballistic protection P/N 3G9580V01551 by means of n°2 screws P/N AN525-10R16 and n°2 screws P/N AN525-10R11.

2.14 With reference to Figure 28 Detail C, remove the existing hardware and install the ballistic protection P/N 3G9580V01051 by means of n°2 screws P/N AN525-10R16 and n°2 screws P/N AN525-10R11.

2.15 With reference to Figure 28 Detail C, remove the existing hardware and install the ballistic protection P/N 3G9580V06651 by means of a screw P/N AN525-10R16 and a screw P/N AN525-10R12.

2.16 With reference to Figure 28 Detail C, remove the existing hardware and install the ballistic protection P/N 3G9580V06751 by means of a screw P/N AN525-10R16 and a screw P/N AN525-10R12.

NOTE

If necessary, it is possible to drill the ballistic protection in correspondence with doorstep assy fixing points.

2.17 With reference to Figure 24 Detail D and section E-E, install the LH doorstep assy P/N 3G2500A06531 by means of n°3 screws P/N MS24694-C64 and n°2 existing screws P/N MS24694-C50.

2.18 With reference to Figure 24 Detail D and section E-E, install the FWD RH doorstep assy P/N 3G2500A06431 by means of n°6 screws P/N MS24694-C64 and n°5 existing screws P/N MS24694-C50.

3. Return the helicopter to flight configuration and record for compliance with Part IX of this Service Bulletin on the helicopter logbook.

4. Send the attached compliance form to the following mail box:

engineering.support.lhd@leonardocompany.com

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

PART X

1. In accordance with 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. With reference to Figures 30 thru 33, perform the emergency release mechanism installation P/N 3G5206P00111 as described in the following procedure:
   - 2.1 In accordance with AMP DM 39-X-52-11-01-00A-520A-K remove the left cockpit door.
   - 2.2 With reference to Figure 30 Section B-B and Section C-C, perform the indicated cutout on the canopy structure.
   - 2.3 With reference to Figure 30 Section B-B and Section D-D, perform the indicated cutout on the canopy structure.
   - 2.4 With reference to Figure 30 Section B-B, seal around the performed cutouts by means of adhesive 199-05-002 Type II Class 2 as indicated.
   - 2.5 With reference to Schematic Section B-B and C-C, apply n°2 layers of aramid cloth HexForce 20914 7 1200 by means of adhesive 199-05-002 Type I Class 2.
   - 2.6 With reference to Schematic Section B-B and D-D, apply n°2 layers of aramid cloth HexForce 20914 7 1200 by means of adhesive 199-05-002 Type I Class 2.
   - 2.7 With reference to Figure 32 Detail D, install the saddle assy P/N 109-0855-65-101 on the cover assy LH retromod P/N 3G5206P00131 by means of n°4 rivets P/N NAS1097AD3-7.
   - 2.8 With reference to Figure 32 Section E-E, drill the hole Ø3.68÷3.81 thru the support LH P/N 3G5206P00351 according to the holes on the cover P/N 3G2580A51451 and the cover assy LH retromod P/N 3G5206P00131.
   - 2.9 With reference to Figure 32 Section E-E, install the nut plate P/N MS21075L04N on the support LH P/N 3G5206P00351 by means of n°2 rivets P/N NAS1097AD3-7.
   - 2.10 With reference to Figure 32 View C, install n°6 nut plates P/N MS21069L3 on the support LH P/N 3G5206P00351 by means of n°12 rivets P/N MS20426AD3-7, according to the holes on the cover assy LH retromod P/N 3G5206P00131.
   - 2.11 With reference to Figure 32 Section B-B, temporarily locate the bracket P/N 109-0323-05-1 on the support LH P/N 3G5206P00351 and countermark n°2 holes.
   - 2.12 With reference to Figure 32 Section B-B, drill n°2 countersunk 100° holes Ø7.79 thru the support LH P/N 3G5206P00351 in the previously countermarked positions.

NOTE

Install aluminium shims (dimension 30x15 mm, thickness 1,6 mm each) between the support and the bracket. Bond the shims by means of adhesive 199-05-002 Type I Class 2.

2.13 With reference to Figure 32 Section B-B, install the bracket P/N 109-0323-05-1 with the relevant retaining ring P/N MS16624-1056 on the support LH P/N 3G5206P00351 by means of n°2 screws P/N MS24693-S272.

2.14 With reference to Figure 32 View C and Section B-B, install the cover assy LH retromod P/N 3G5206P00131 with the relevant retaining ring P/N MS16624-1056 on the support LH P/N 3G5206P00351 by means of n°6 screws P/N MS27039-1-07.

2.15 With reference to Figure 32 Section B-B, put the handle LH P/N 109-0323-27-3, the pin P/N 109-0323-04-1 and the lever P/N 3G5211A13451 in their correct installation position.

2.16 With reference to Figure 32 View C, install the upper connecting link assy P/N 3G5206P00531 on the lever P/N 3G5211A13451 by means of the pin P/N MS20392-2C9, the washer P/N NAS620-10L and the cotter pin P/N MS24665-86.

2.17 With reference to Figure 32 View C, repeat step 2.4.16 to install the lower connecting link assy P/N 3G5206P00431.

2.18 With reference to Figure 32 Section B-B, drill the hole Ø2.39÷2.46 and fix the handle LH P/N 109-0323-27-3 by means of the spring pin P/N MS9048-072.

2.19 With reference to Figure 31 Detail A1, remove n°2 bolts P/N AN4-14A, n°2 nuts P/N MS17825-4, n°2 cotter pins P/N MS24665-5 and the bearing sleeve P/N 999-0050-06-405 from the upper left hinge assy P/N 3G5322A00131 and the lower left hinge assy P/N 3G5322A00331.

2.20 With reference to Figure 31 Detail A1, install the upper connecting link assy P/N 3G5206P00531 on the upper hinge assy by means of the upper pin P/N 3G5206P00751, the pin P/N MS20392-2C9 and the washer P/N NAS620-10L.

2.21 With reference to Figure 31 Detail A1, safety the pin P/N MS20392-2C9 by means of the cotter pin P/N MS24665-86.

2.22 With reference to Figure 31 Detail A2, install the lower connecting link assy P/N 3G5206P00431 on the lower hinge assy by means of the bushing P/N 999-0050-21-413, the lower pin P/N 3G5206P00651, the pin P/N MS20392-2C9 and the washer P/N NAS620-10L.

2.23 With reference to Figure 33 Detail A2, safety the pin P/N MS20392-2C9 by

means of the cotter pin P/N MS24665-86.

2.24 With reference to Figure 33 Detail A and Figure 32 Section B-B, put the support LH 3G5206P00351 and the pilot cover door LH previously removed in the correct installation position and countermark n°6 holes on the canopy and n°3 holes on the pilot cover door LH.

2.25 With reference to Figure 32 Section B-B, drill n°6 holes Ø4.90-5.03 thru the canopy and n°6 holes Ø5.28-5.44 thru the support LH 3G5206P00351.

2.26 With reference to Figure 33 Detail A, drill n°3 holes Ø4.90-5.03 thru the pilot cover door LH P/N 3G5320A06131.

2.27 With reference to Figure 32 Section B-B, install n°6 nut plates P/N MS21075L08 on the support LH 3G5206P00351 by means of n°12 rivets P/N MS20426AD3.

2.28 With reference to Figure 32 Section B-B, install the support LH 3G5206P00351 on the canopy by means of n°6 screws P/N MS27039-0808 and n°6 washers P/N NAS620-8.

2.29 In accordance with AMP DM 39-X-52-11-01-00A-720A-K install the left cockpit door.

2.30 With reference to Figure 30 thru 33, repeat the steps from 2.1 thru 2.29 for the RH side.

3. Return the helicopter to flight configuration and record for compliance with Part X of this Service Bulletin on the helicopter logbook.

4. Send the attached compliance form to the following mail box:

engineering.support.lhd@leonardocompany.com

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

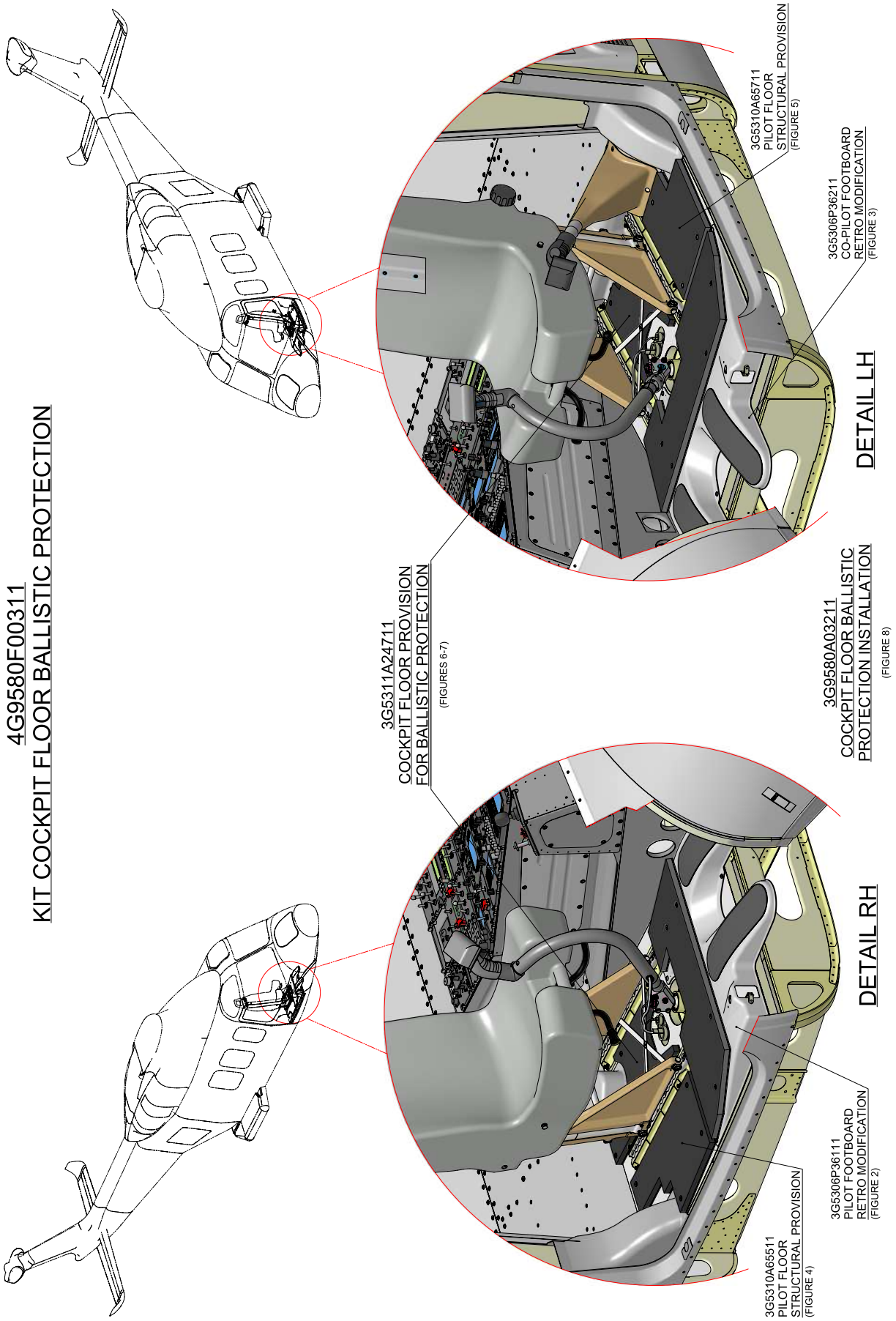

4G9580F00311
KIT COCKPIT FLOOR BALLISTIC PROTECTION
3G5310A65711
PILOT FLOOR
STRUCTURAL PROVISION
(FIGURE 5)
3G5306P36211
CO-PILOT FOOTBOARD
RETRO MODIFICATION
(FIGURE 3)
DETAIL LH
3G5311A24711
COCKPIT FLOOR PROVISION
FOR BALLISTIC PROTECTION
(FIGURES 6-7)
3G9580A03211
COCKPIT FLOOR BALLISTIC
PROTECTION INSTALLATION
(FIGURE 8)
3G5306P36111
PILOT FOOTBOARD
RETRO MODIFICATION
(FIGURE 2)
3G5310A65511
PILOT FLOOR
STRUCTURAL PROVISION
(FIGURE 4)
DETAIL RH

Figure 1

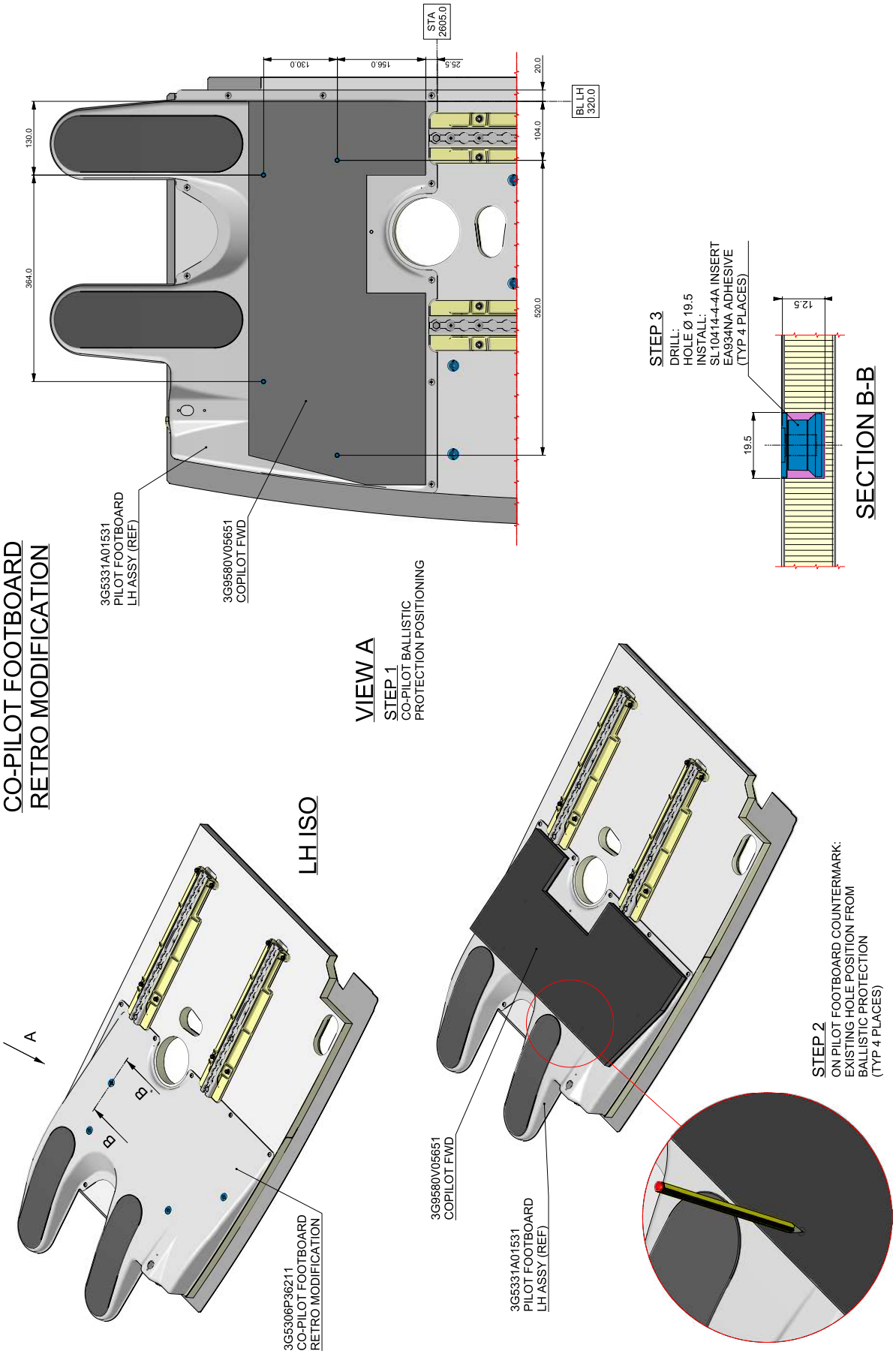

3G5306P36211
CO-PILOT FOOTBOARD
RETRO MODIFICATION
LH ISO
A
B
B
3G5306P36211
CO-PILOT FOOTBOARD
RETRO MODIFICATION
VIEW A
STEP 1
CO-PILOT BALLISTIC
PROTECTION POSITIONING
3G9580V05651
COPILOT FWD
3G5331A01531
PILOT FOOTBOARD
LH ASSY (REF)
STEP 2
ON PILOT FOOTBOARD COUNTERMARK:
EXISTING HOLE POSITION FROM
BALLISTIC PROTECTION
(TYP 4 PLACES)
STA
2605.0
BL LH
320.0
130.0
156.0
25.5
20.0
104.0
520.0
130.0
364.0
3G5331A01531
PILOT FOOTBOARD
LH ASSY (REF)
3G9580V05651
COPILOT FWD
STEP 3
DRILL:
HOLE Ø 19.5
INSTALL:
SL10414-4-4A INSERT
EA934NA ADHESIVE
(TYP 4 PLACES)
12.5
19.5
SECTION B-B

Figure 2

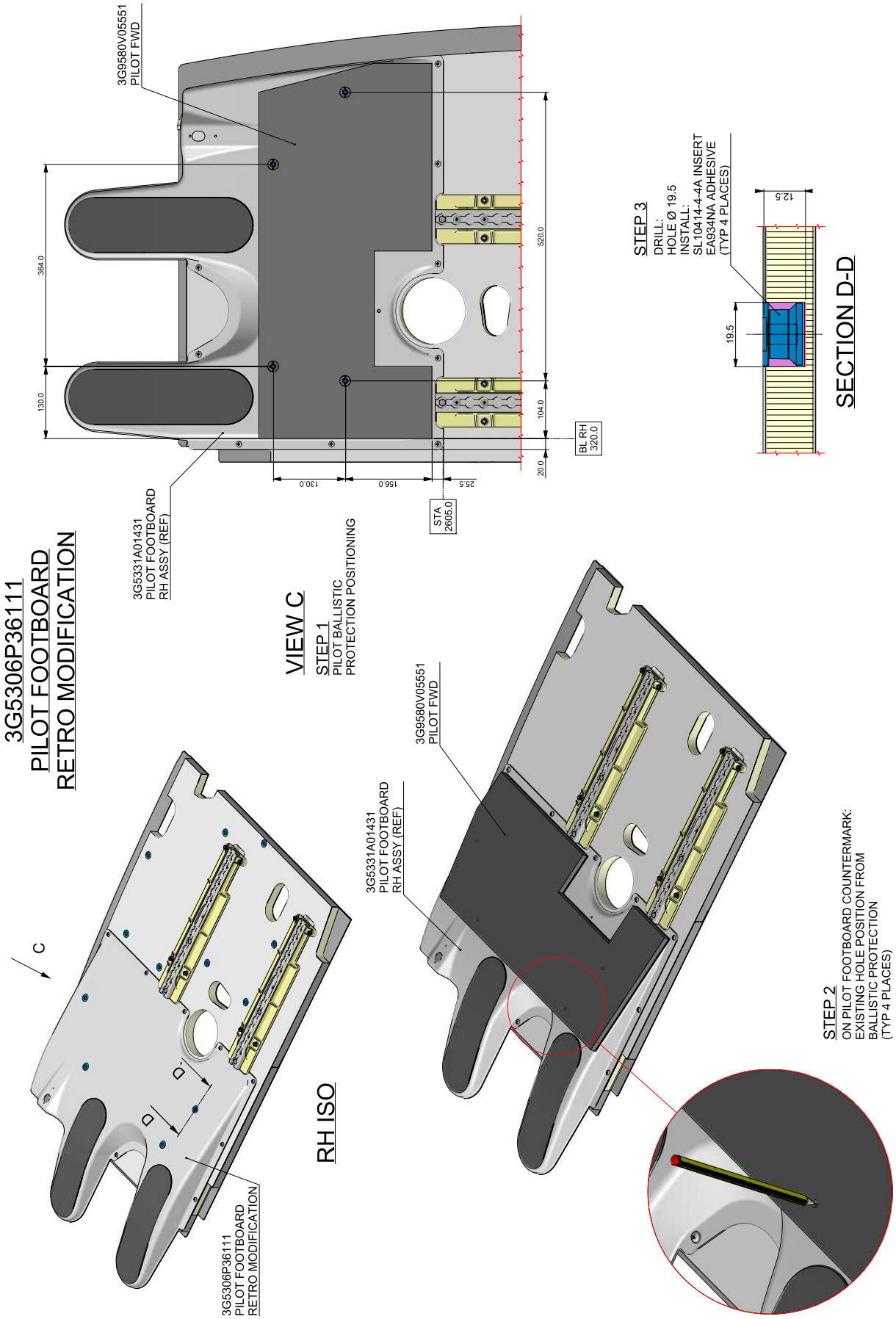

3G5306P36111
PILOT FOOTBOARD
RETRO MODIFICATION
3G9580V05551
PILOT FWD
3G5331A01431
PILOT FOOTBOARD
RH ASSY (REF)
364.0
130.0
520.0
104.0
20.0
BL RH
320.0
130.0
156.0
25.5
STA
2605.0
VIEW C
STEP 1
PILOT BALLISTIC
PROTECTION POSITIONING
STEP 3
DRILL:
HOLE Ø 19.5
INSTALL:
SL10414-4-4A INSERT
EA934NA ADHESIVE
(TYP 4 PLACES)
12.5
19.5
SECTION D-D
C
D
D'
RH ISO
STEP 2
ON PILOT FOOTBOARD COUNTERMARK:
EXISTING HOLE POSITION FROM
BALLISTIC PROTECTION
(TYP 4 PLACES)

Figure 3

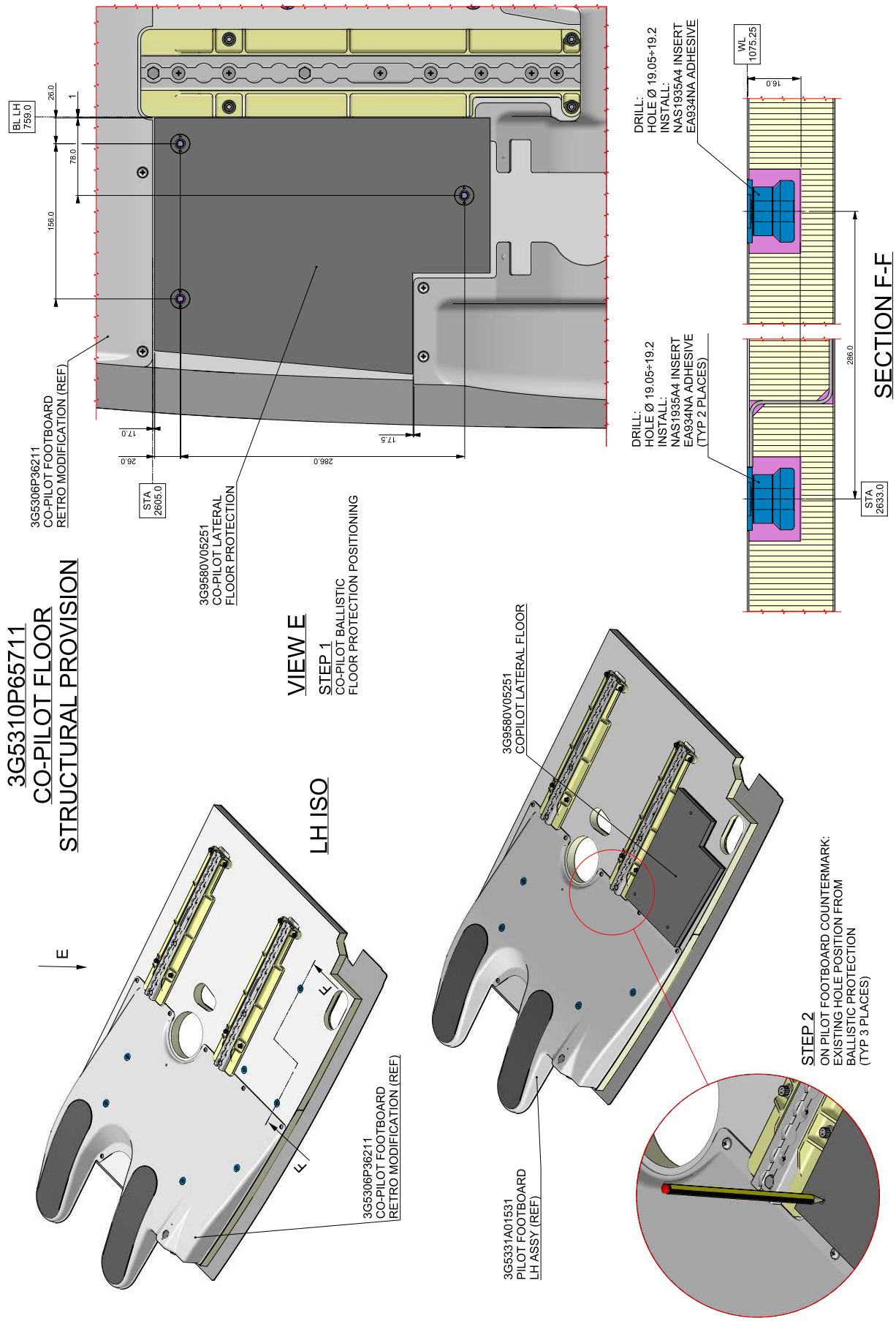

3G5310P65711
CO-PILOT FLOOR
STRUCTURAL PROVISION
VIEW E
STEP 1
CO-PILOT BALLISTIC
FLOOR PROTECTION POSITIONING
3G5306P36211
CO-PILOT FOOTBOARD
RETRO MODIFICATION (REF)
3G9580V05251
CO-PILOT LATERAL
FLOOR PROTECTION
BL LH
759.0
STA
2605.0
STA
2633.0
DRILL:
HOLE Ø 19.05÷19.2
INSTALL:
NAS1935A4 INSERT
EA934NA ADHESIVE
DRILL:
HOLE Ø 19.05÷19.2
INSTALL:
NAS1935A4 INSERT
EA934NA ADHESIVE
(TYP 2 PLACES)
WL
1075.25
SECTION F-F
LH ISO
E
3G9580V05251
COPILOT LATERAL FLOOR
3G5331A01531
PILOT FOOTBOARD
LH ASSY (REF)
STEP 2
ON PILOT FOOTBOARD COUNTERMARK:
EXISTING HOLE POSITION FROM
BALLISTIC PROTECTION
(TYP 3 PLACES)

Figure 4

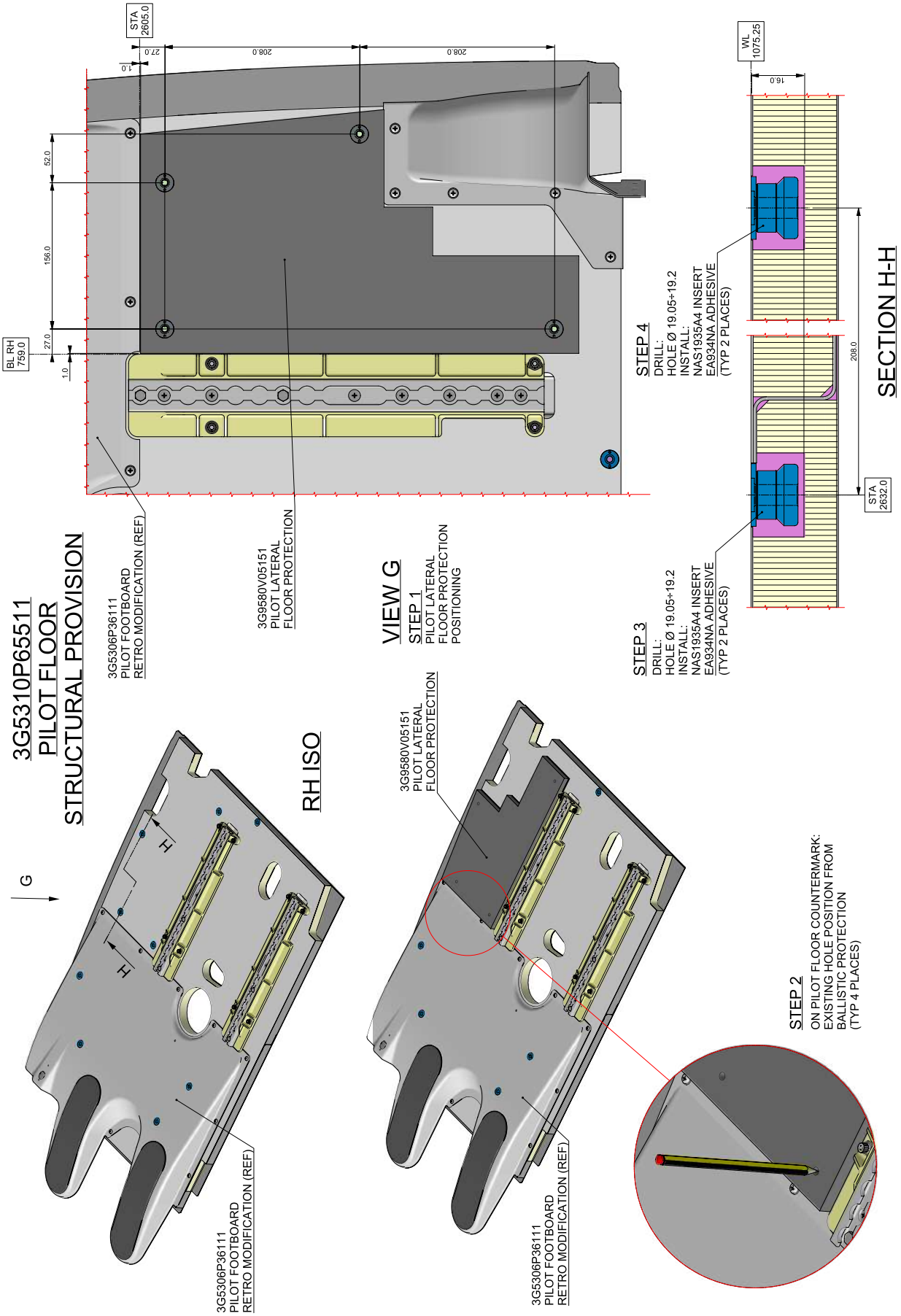

3G5310P65511
PILOT FLOOR
STRUCTURAL PROVISION
STA 2605.0
BL RH 759.0
WL 1075.25
208.0
156.0
52.0
27.0
1.0
16.0
STEP 4
DRILL:
HOLE Ø 19.05÷19.2
INSTALL:
NAS1935A4 INSERT
EA934NA ADHESIVE
(TYP 2 PLACES)
SECTION H-H
STA 2632.0
3G5306P36111
PILOT FOOTBOARD
RETRO MODIFICATION (REF)
3G9580V05151
PILOT LATERAL
FLOOR PROTECTION
VIEW G
STEP 1
PILOT LATERAL
FLOOR PROTECTION
POSITIONING
STEP 3
DRILL:
HOLE Ø 19.05÷19.2
INSTALL:
NAS1935A4 INSERT
EA934NA ADHESIVE
(TYP 2 PLACES)
G
H
H
RH ISO
3G9580V05151
PILOT LATERAL
FLOOR PROTECTION
STEP 2
ON PILOT FLOOR COUNTERMARK:
EXISTING HOLE POSITION FROM
BALLISTIC PROTECTION
(TYP 4 PLACES)
3G5306P36111
PILOT FOOTBOARD
RETRO MODIFICATION (REF)
3G5306P36111
PILOT FOOTBOARD
RETRO MODIFICATION (REF)

Figure 5

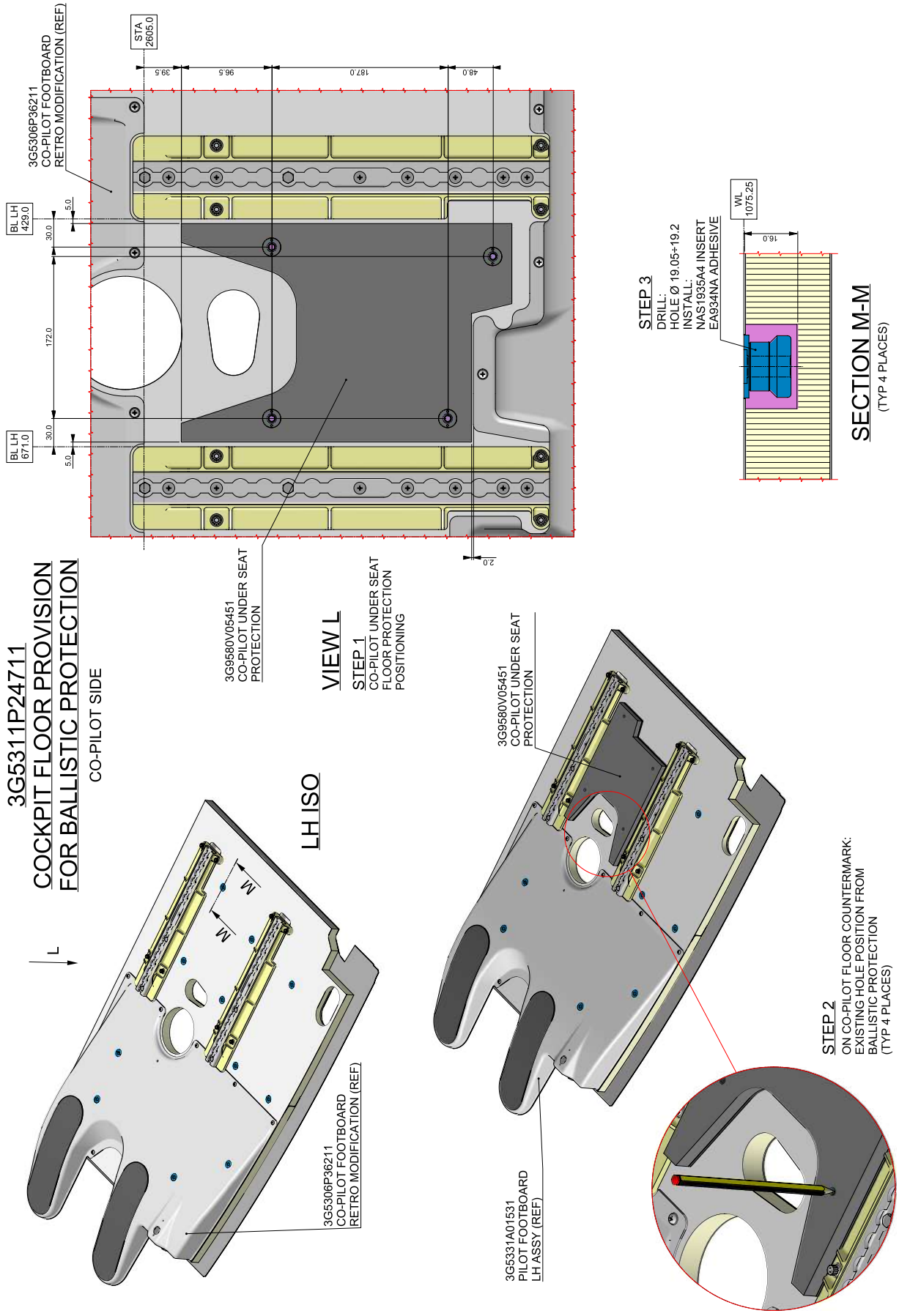

3G5311P24711
COCKPIT FLOOR PROVISION
FOR BALLISTIC PROTECTION
CO-PILOT SIDE
L
LH ISO
3G5306P36211
CO-PILOT FOOTBOARD
RETRO MODIFICATION (REF)
3G9580V05451
CO-PILOT UNDER SEAT
PROTECTION
VIEW L
STEP 1
CO-PILOT UNDER SEAT
FLOOR PROTECTION
POSITIONING
3G5331A01531
PILOT FOOTBOARD
LH ASSY (REF)
STEP 2
ON CO-PILOT FLOOR COUNTERMARK:
EXISTING HOLE POSITION FROM
BALLISTIC PROTECTION
(TYP 4 PLACES)
STEP 3
DRILL:
HOLE Ø 19.05÷19.2
INSTALL:
NAS1935A4 INSERT
EA934NA ADHESIVE
SECTION M-M
(TYP 4 PLACES)
STA 2605.0
BL LH 429.0
BL LH 671.0
WL 1075.25

Figure 6

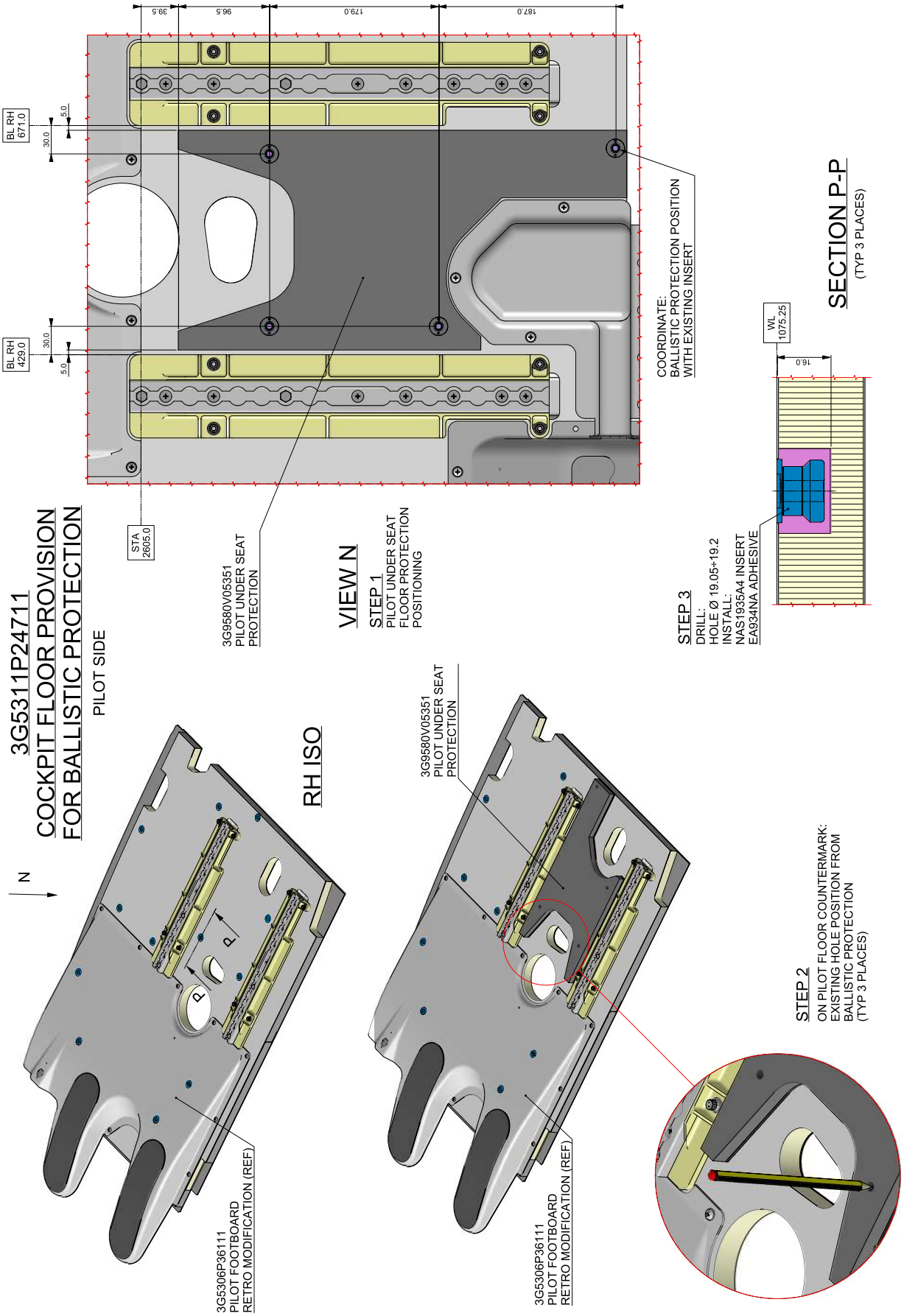

3G5311P24711
COCKPIT FLOOR PROVISION
FOR BALLISTIC PROTECTION
PILOT SIDE
N
RH ISO
VIEW N
STEP 1
PILOT UNDER SEAT
FLOOR PROTECTION
POSITIONING
3G9580V05351
PILOT UNDER SEAT
PROTECTION
STA
2605.0
BL RH
671.0
BL RH
429.0
30.0
5.0
COORDINATE:
BALLISTIC PROTECTION POSITION
WITH EXISTING INSERT
SECTION P-P
(TYP 3 PLACES)
WL
1075.25
16.0
STEP 3
DRILL:
HOLE Ø 19.05+19.2
INSTALL:
NAS1935A4 INSERT
EA934NA ADHESIVE
STEP 2
ON PILOT FLOOR COUNTERMARK:
EXISTING HOLE POSITION FROM
BALLISTIC PROTECTION
(TYP 3 PLACES)
3G5306P36111
PILOT FOOTBOARD
RETRO MODIFICATION (REF)

Figure 7

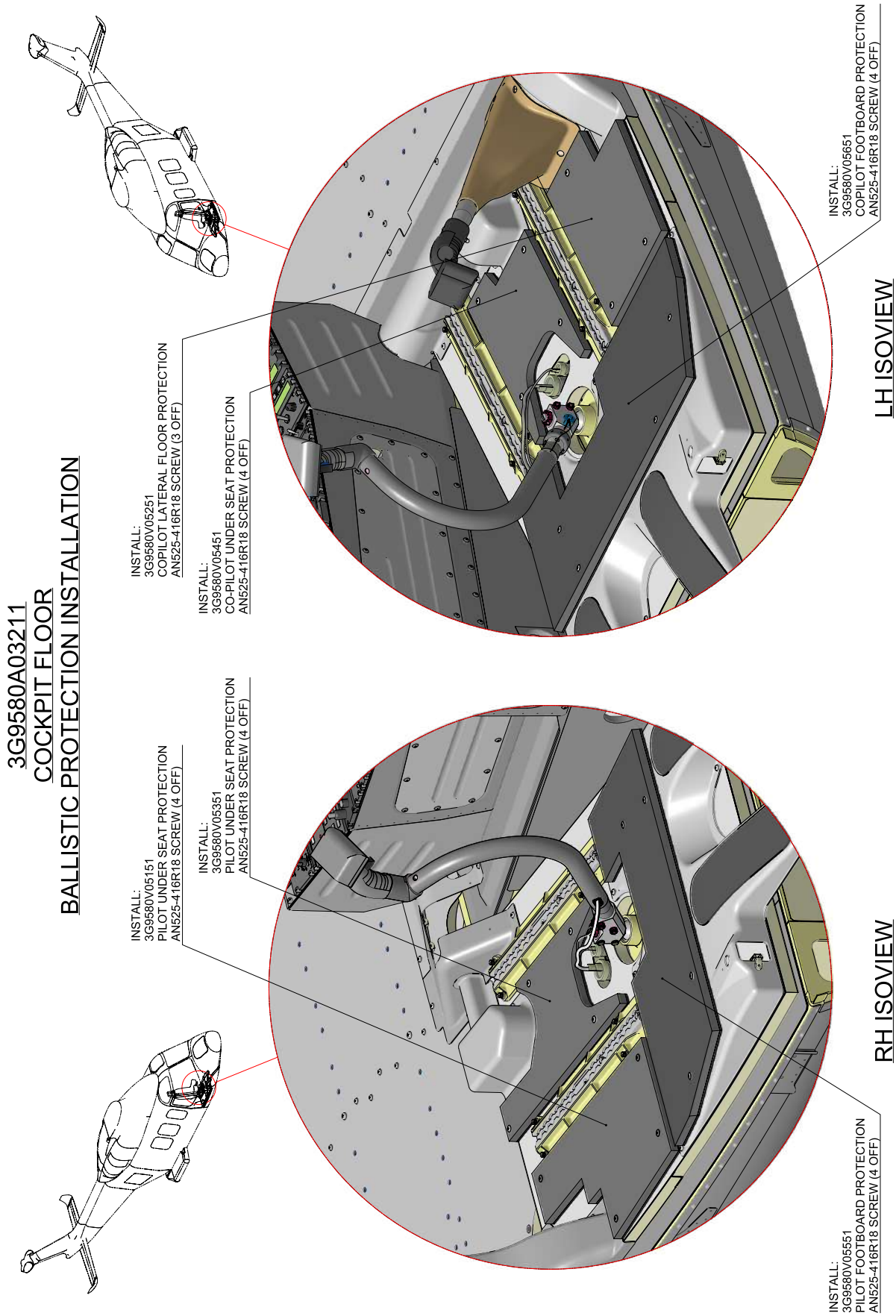

3G9580A03211
COCKPIT FLOOR
BALLISTIC PROTECTION INSTALLATION
INSTALL:
3G9580V05251
COPILOT LATERAL FLOOR PROTECTION
AN525-416R18 SCREW (3 OFF)
INSTALL:
3G9580V05451
CO-PILOT UNDER SEAT PROTECTION
AN525-416R18 SCREW (4 OFF)
INSTALL:
3G9580V05651
COPILOT FOOTBOARD PROTECTION
AN525-416R18 SCREW (4 OFF)
LH ISOVIEW
INSTALL:
3G9580V05151
PILOT UNDER SEAT PROTECTION
AN525-416R18 SCREW (4 OFF)
INSTALL:
3G9580V05351
PILOT UNDER SEAT PROTECTION
AN525-416R18 SCREW (4 OFF)
INSTALL:
3G9580V05551
PILOT FOOTBOARD PROTECTION
AN525-416R18 SCREW (4 OFF)
RH ISOVIEW

Figure 8

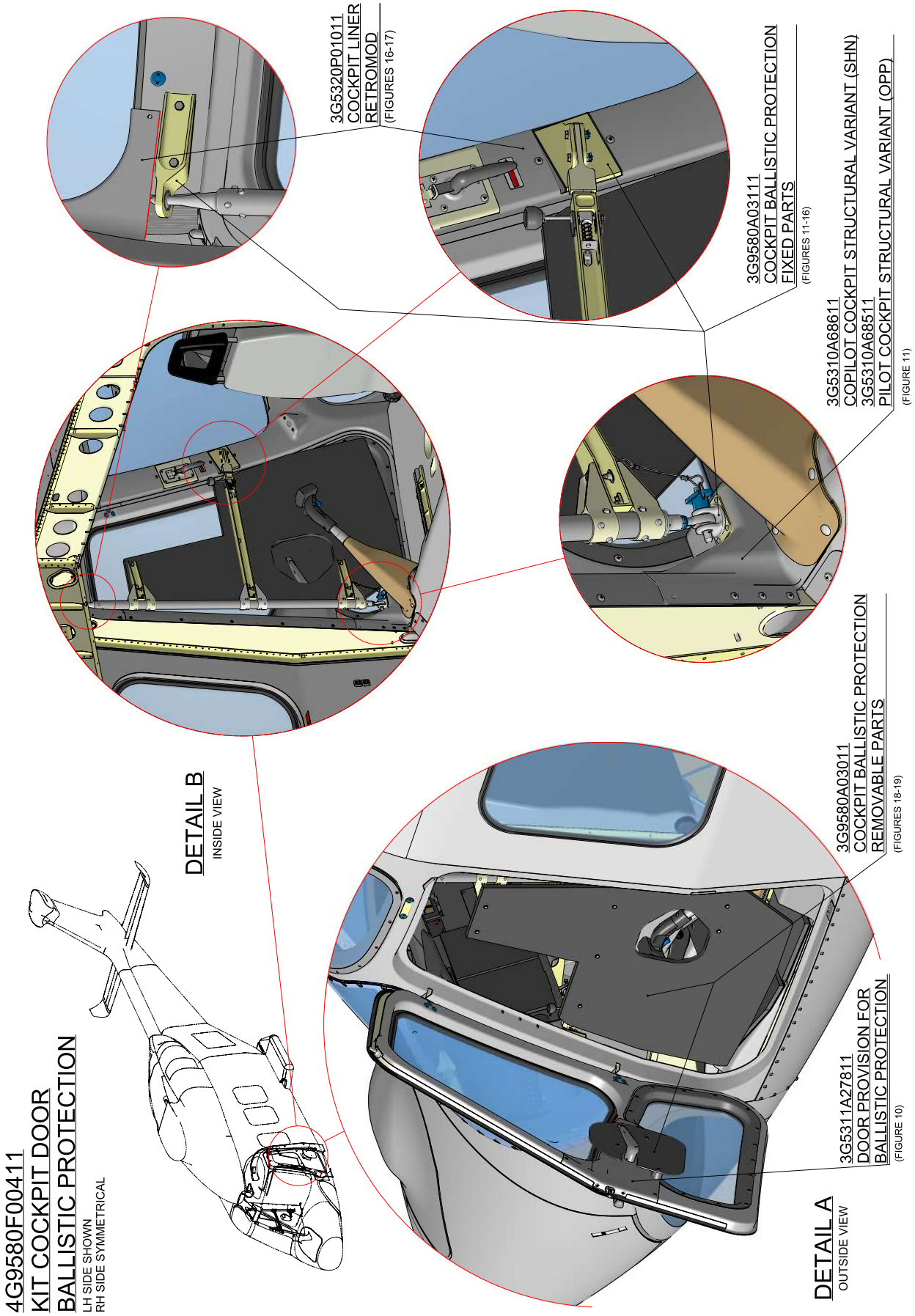

4G9580F00411
KIT COCKPIT DOOR
BALLISTIC PROTECTION
LH SIDE SHOWN
RH SIDE SYMMETRICAL
DETAIL B
INSIDE VIEW
DETAIL A
OUTSIDE VIEW
3G5320P01011
COCKPIT LINER
RETROMOD
(FIGURES 16-17)
3G9580A03111
COCKPIT BALLISTIC PROTECTION
FIXED PARTS
(FIGURES 11-16)
3G5310A68611
COPILOT COCKPIT STRUCTURAL VARIANT (SHN)
3G5310A68511
PILOT COCKPIT STRUCTURAL VARIANT (OPP)
(FIGURE 11)
3G9580A03011
COCKPIT BALLISTIC PROTECTION
REMOVABLE PARTS
(FIGURES 18-19)
3G5311A27811
DOOR PROVISION FOR
BALLISTIC PROTECTION
(FIGURE 10)

Figure 9

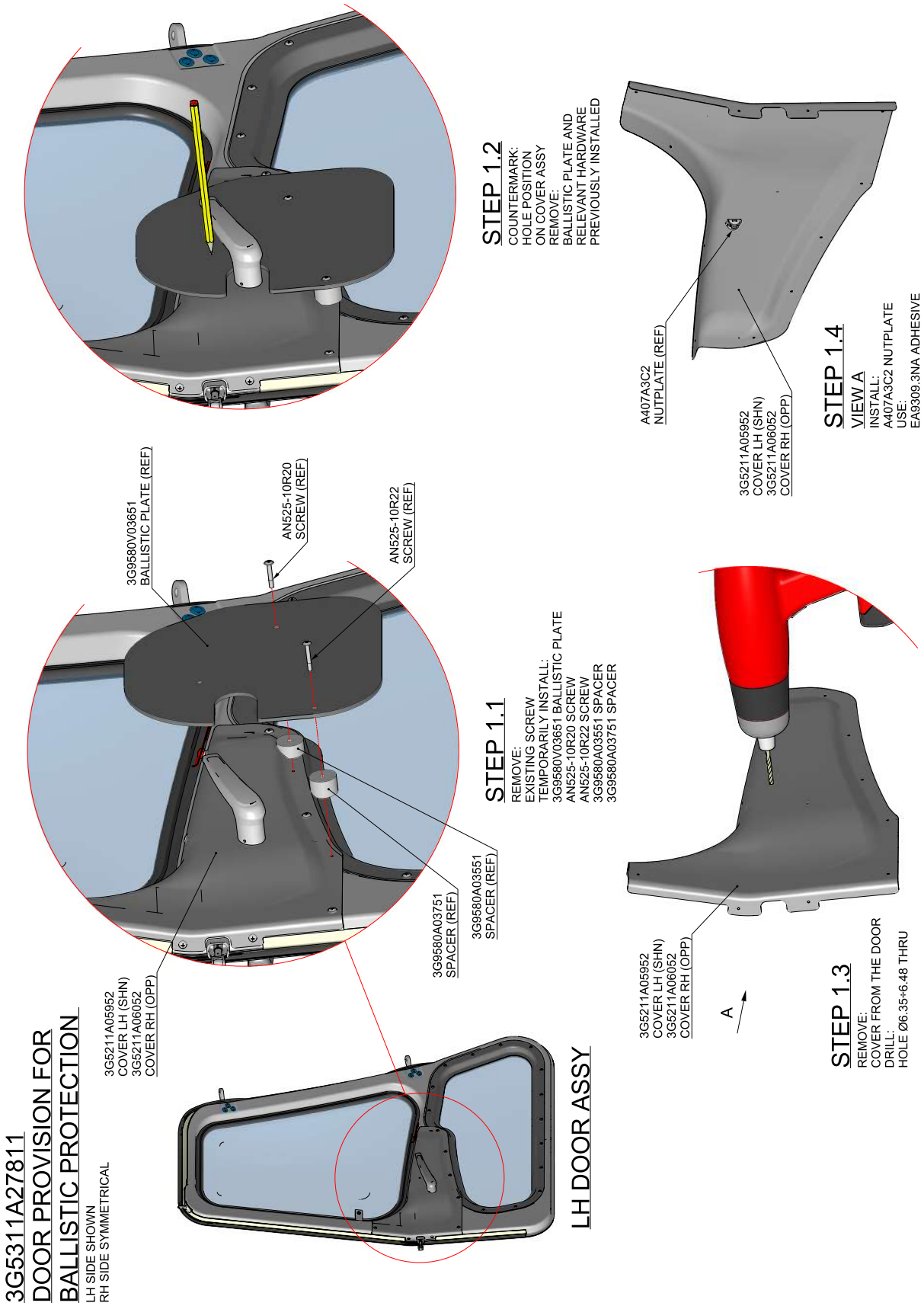

3G5311A27811
DOOR PROVISION FOR
BALLISTIC PROTECTION
LH SIDE SHOWN
RH SIDE SYMMETRICAL
LH DOOR ASSY
3G5211A05952
COVER LH (SHN)
3G5211A06052
COVER RH (OPP)
3G9580V03651
BALLISTIC PLATE (REF)
AN525-10R20
SCREW (REF)
AN525-10R22
SCREW (REF)
3G9580A03751
SPACER (REF)
3G9580A03551
SPACER (REF)
STEP 1.1
REMOVE:
EXISTING SCREW
TEMPORARILY INSTALL:
3G9580V03651 BALLISTIC PLATE
AN525-10R20 SCREW
AN525-10R22 SCREW
3G9580A03551 SPACER
3G9580A03751 SPACER
STEP 1.2
COUNTERMARK:
HOLE POSITION
ON COVER ASSY
REMOVE:
BALLISTIC PLATE AND
RELEVANT HARDWARE
PREVIOUSLY INSTALLED
A
STEP 1.3
REMOVE:
COVER FROM THE DOOR
DRILL:
HOLE Ø6.35÷6.48 THRU
A407A3C2
NUTPLATE (REF)
STEP 1.4
VIEW A
INSTALL:
A407A3C2 NUTPLATE
USE:
EA9309.3NA ADHESIVE

Figure 10

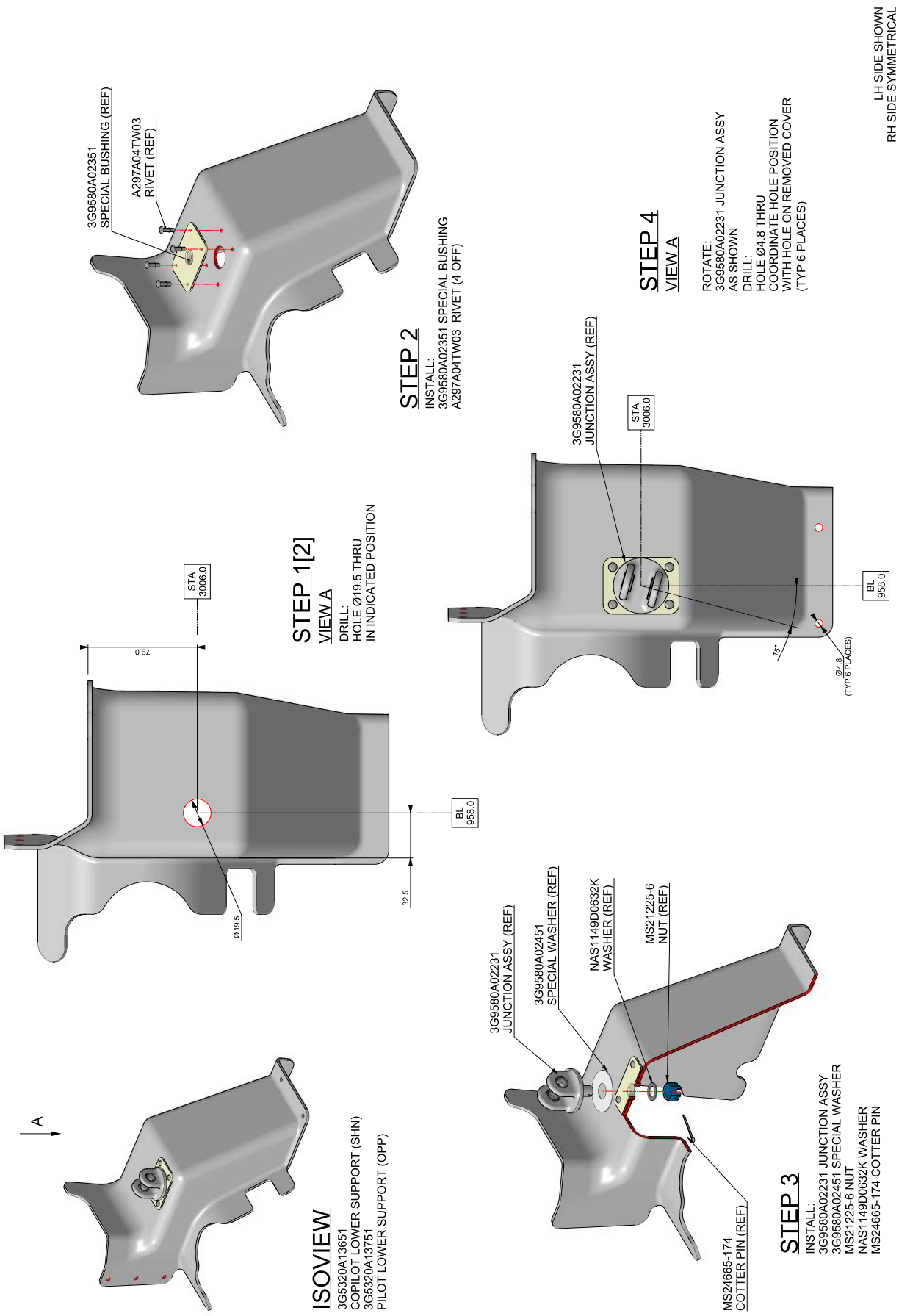

LH SIDE SHOWN
RH SIDE SYMMETRICAL
3G9580A02351
SPECIAL BUSHING (REF)
A297A04TW03
RIVET (REF)
STEP 2
INSTALL:
3G9580A02351 SPECIAL BUSHING
A297A04TW03 RIVET (4 OFF)
STEP 4
VIEW A
ROTATE:
3G9580A02231 JUNCTION ASSY
AS SHOWN
DRILL:
HOLE Ø4.8 THRU
COORDINATE HOLE POSITION
WITH HOLE ON REMOVED COVER
(TYP 6 PLACES)
3G9580A02231
JUNCTION ASSY (REF)
STA
3006.0
BL
958.0
15°
Ø4.8
(TYP 6 PLACES)
STEP 1[2]
VIEW A
DRILL:
HOLE Ø19.5 THRU
IN INDICATED POSITION
STA
3006.0
79.0
BL
958.0
32.5
Ø19.5
A
ISOVIEW
3G5320A13651
COPILOT LOWER SUPPORT (SHN)
3G5320A13751
PILOT LOWER SUPPORT (OPP)
3G9580A02231
JUNCTION ASSY (REF)
3G9580A02451
SPECIAL WASHER (REF)
NAS1149D0632K
WASHER (REF)
MS21225-6
NUT (REF)
MS24665-174
COTTER PIN (REF)
STEP 3
INSTALL:
3G9580A02231 JUNCTION ASSY
3G9580A02451 SPECIAL WASHER
MS21225-6 NUT
NAS1149D0632K WASHER
MS24665-174 COTTER PIN

Figure 11

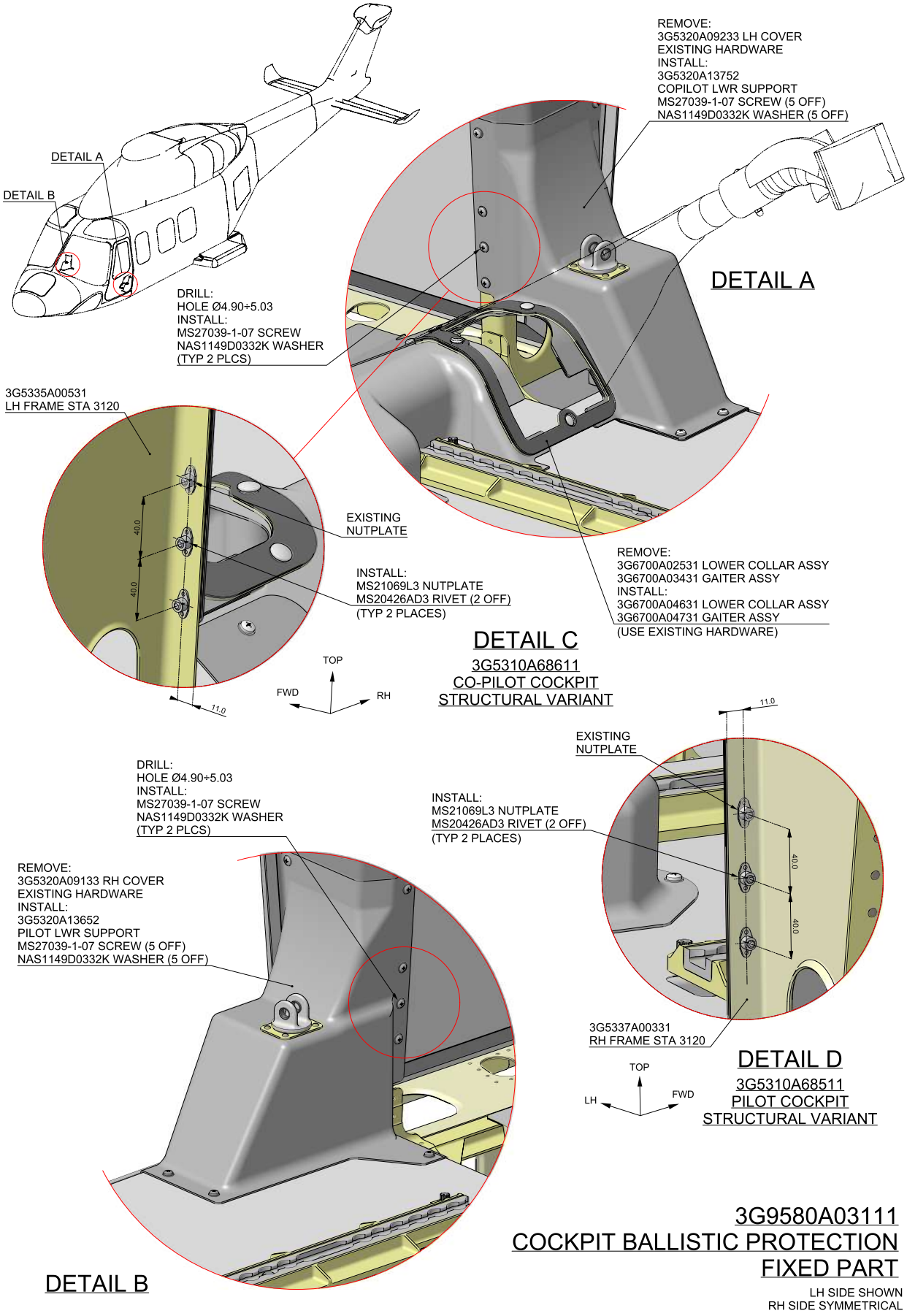

DETAIL A
DETAIL B
REMOVE:
3G5320A09233 LH COVER
EXISTING HARDWARE
INSTALL:
3G5320A13752
COPILOT LWR SUPPORT
MS27039-1-07 SCREW (5 OFF)
NAS1149D0332K WASHER (5 OFF)
DRILL:
HOLE Ø4.90÷5.03
INSTALL:
MS27039-1-07 SCREW
NAS1149D0332K WASHER
(TYP 2 PLCS)
DETAIL A
3G5335A00531
LH FRAME STA 3120
EXISTING
NUTPLATE
INSTALL:
MS21069L3 NUTPLATE
MS20426AD3 RIVET (2 OFF)
(TYP 2 PLACES)
40.0
40.0
11.0
REMOVE:
3G6700A02531 LOWER COLLAR ASSY
3G6700A03431 GAITER ASSY
INSTALL:
3G6700A04631 LOWER COLLAR ASSY
3G6700A04731 GAITER ASSY
(USE EXISTING HARDWARE)
DETAIL C
3G5310A68611
CO-PILOT COCKPIT
STRUCTURAL VARIANT
TOP
FWD
RH
DRILL:
HOLE Ø4.90÷5.03
INSTALL:
MS27039-1-07 SCREW
NAS1149D0332K WASHER
(TYP 2 PLCS)
REMOVE:
3G5320A09133 RH COVER
EXISTING HARDWARE
INSTALL:
3G5320A13652
PILOT LWR SUPPORT
MS27039-1-07 SCREW (5 OFF)
NAS1149D0332K WASHER (5 OFF)
DETAIL B
11.0
EXISTING
NUTPLATE
INSTALL:
MS21069L3 NUTPLATE
MS20426AD3 RIVET (2 OFF)
(TYP 2 PLACES)
40.0
40.0
3G5337A00331
RH FRAME STA 3120
DETAIL D
3G5310A68511
PILOT COCKPIT
STRUCTURAL VARIANT
TOP
LH
FWD
3G9580A03111
COCKPIT BALLISTIC PROTECTION
FIXED PART
LH SIDE SHOWN
RH SIDE SYMMETRICAL

Figure 12

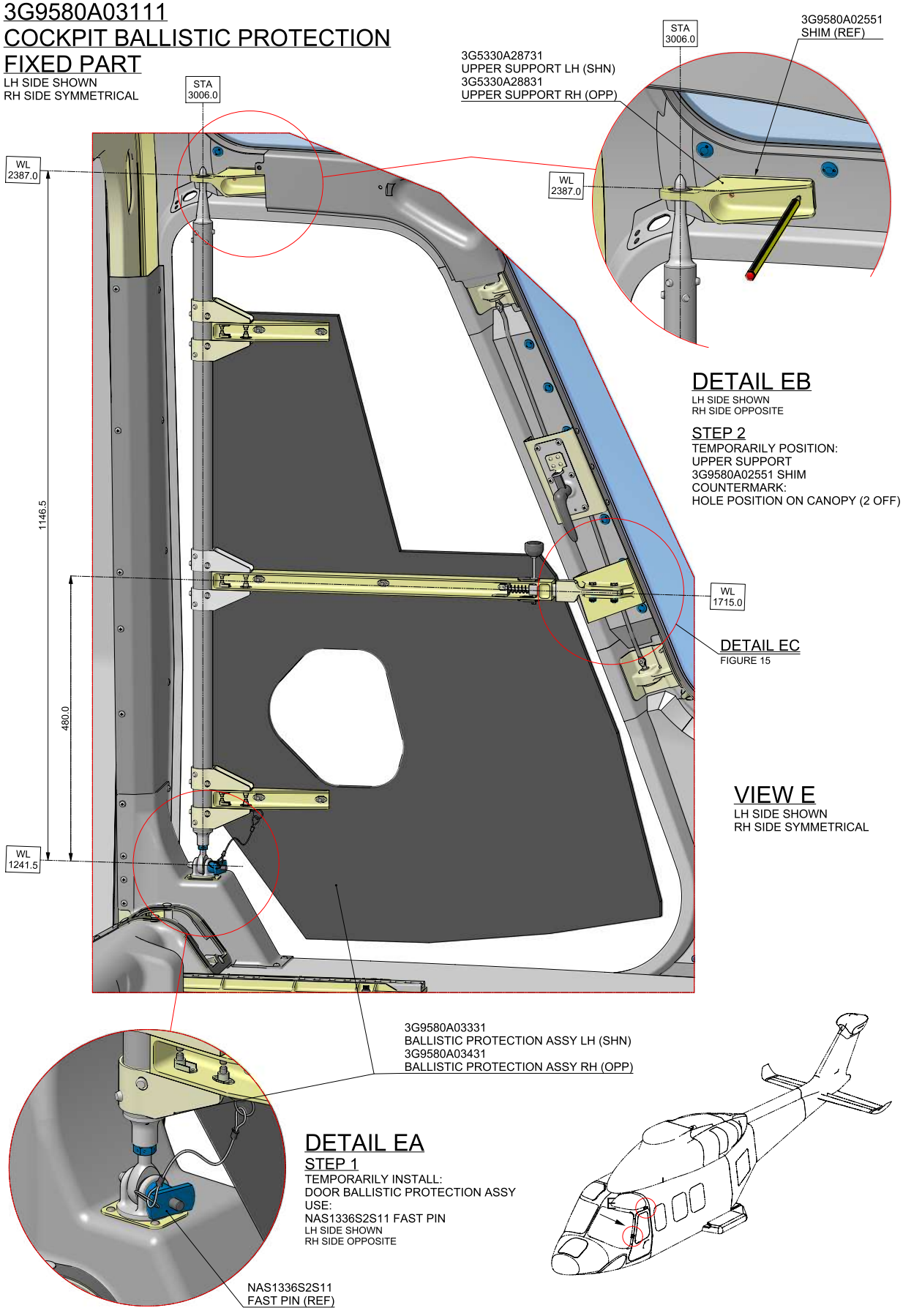

3G9580A03111
COCKPIT BALLISTIC PROTECTION
FIXED PART
LH SIDE SHOWN
RH SIDE SYMMETRICAL
STA 3006.0
WL 2387.0
1146.5
480.0
WL 1241.5
3G5330A28731
UPPER SUPPORT LH (SHN)
3G5330A28831
UPPER SUPPORT RH (OPP)
3G9580A02551
SHIM (REF)
DETAIL EB
LH SIDE SHOWN
RH SIDE OPPOSITE
STEP 2
TEMPORARILY POSITION:
UPPER SUPPORT
3G9580A02551 SHIM
COUNTERMARK:
HOLE POSITION ON CANOPY (2 OFF)
WL 1715.0
DETAIL EC
FIGURE 15
VIEW E
LH SIDE SHOWN
RH SIDE SYMMETRICAL
3G9580A03331
BALLISTIC PROTECTION ASSY LH (SHN)
3G9580A03431
BALLISTIC PROTECTION ASSY RH (OPP)
DETAIL EA
STEP 1
TEMPORARILY INSTALL:
DOOR BALLISTIC PROTECTION ASSY
USE:
NAS1336S2S11 FAST PIN
LH SIDE SHOWN
RH SIDE OPPOSITE
NAS1336S2S11
FAST PIN (REF)

Figure 13

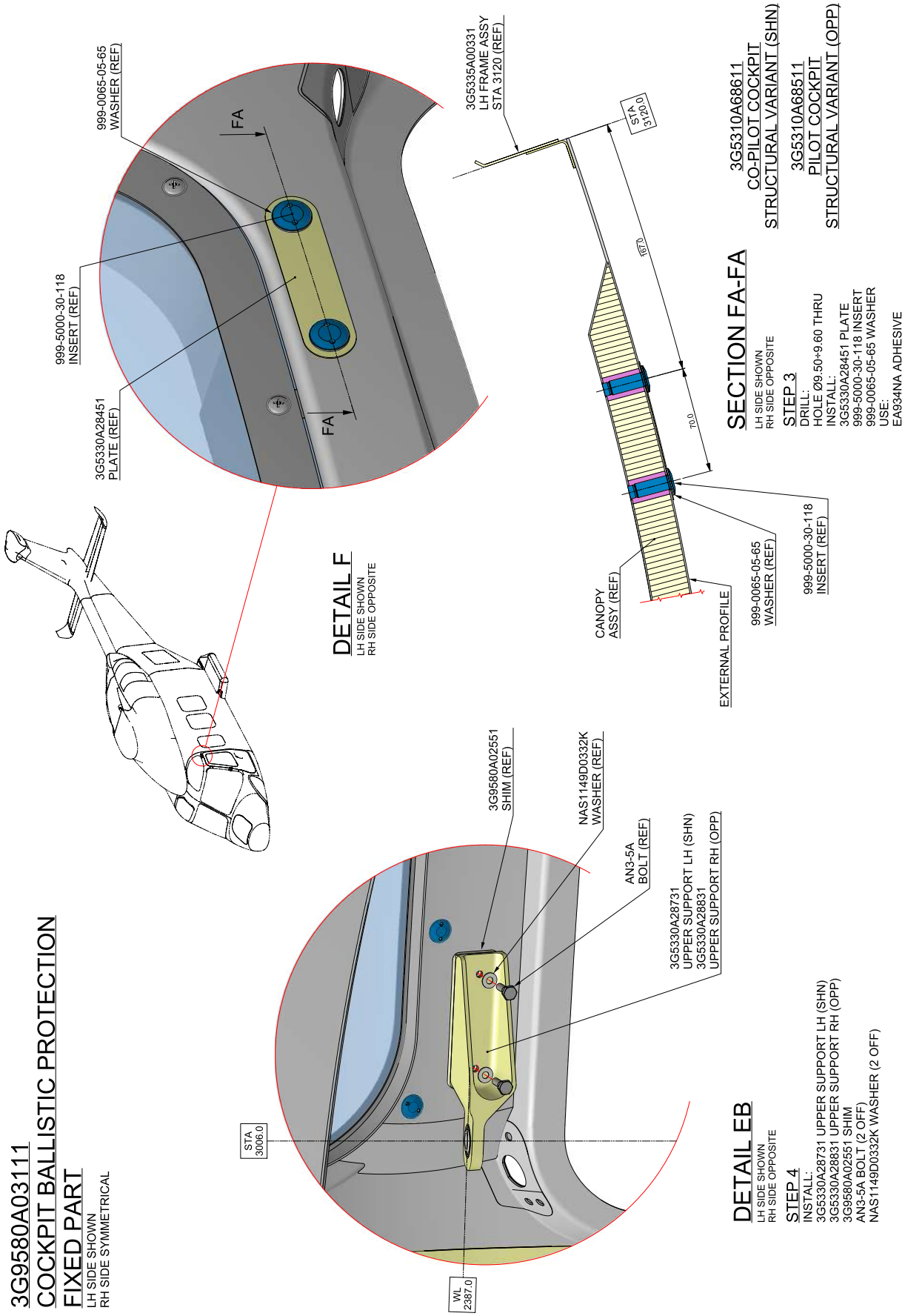

3G9580A03111
COCKPIT BALLISTIC PROTECTION
FIXED PART
LH SIDE SHOWN
RH SIDE SYMMETRICAL
DETAIL F
LH SIDE SHOWN
RH SIDE OPPOSITE
999-0065-05-65
WASHER (REF)
999-5000-30-118
INSERT (REF)
3G5330A28451
PLATE (REF)
FA
FA
3G5335A00331
LH FRAME ASSY
STA 3120 (REF)
STA
3120.0
167.0
70.0
CANOPY
ASSY (REF)
EXTERNAL PROFILE
999-0065-05-65
WASHER (REF)
999-5000-30-118
INSERT (REF)
SECTION FA-FA
LH SIDE SHOWN
RH SIDE OPPOSITE
STEP 3
DRILL:
HOLE Ø9.50÷9.60 THRU
INSTALL:
3G5330A28451 PLATE
999-5000-30-118 INSERT
999-0065-05-65 WASHER
USE:
EA934NA ADHESIVE
3G5310A68611
CO-PILOT COCKPIT
STRUCTURAL VARIANT (SHN)
3G5310A68511
PILOT COCKPIT
STRUCTURAL VARIANT (OPP)
3G9580A02551
SHIM (REF)
NAS1149D0332K
WASHER (REF)
AN3-5A
BOLT (REF)
3G5330A28731
UPPER SUPPORT LH (SHN)
3G5330A28831
UPPER SUPPORT RH (OPP)
STA
3006.0
WL
2387.0
DETAIL EB
LH SIDE SHOWN
RH SIDE OPPOSITE
STEP 4
INSTALL:
3G5330A28731 UPPER SUPPORT LH (SHN)
3G5330A28831 UPPER SUPPORT RH (OPP)
3G9580A02551 SHIM
AN3-5A BOLT (2 OFF)
NAS1149D0332K WASHER (2 OFF)

Figure 14

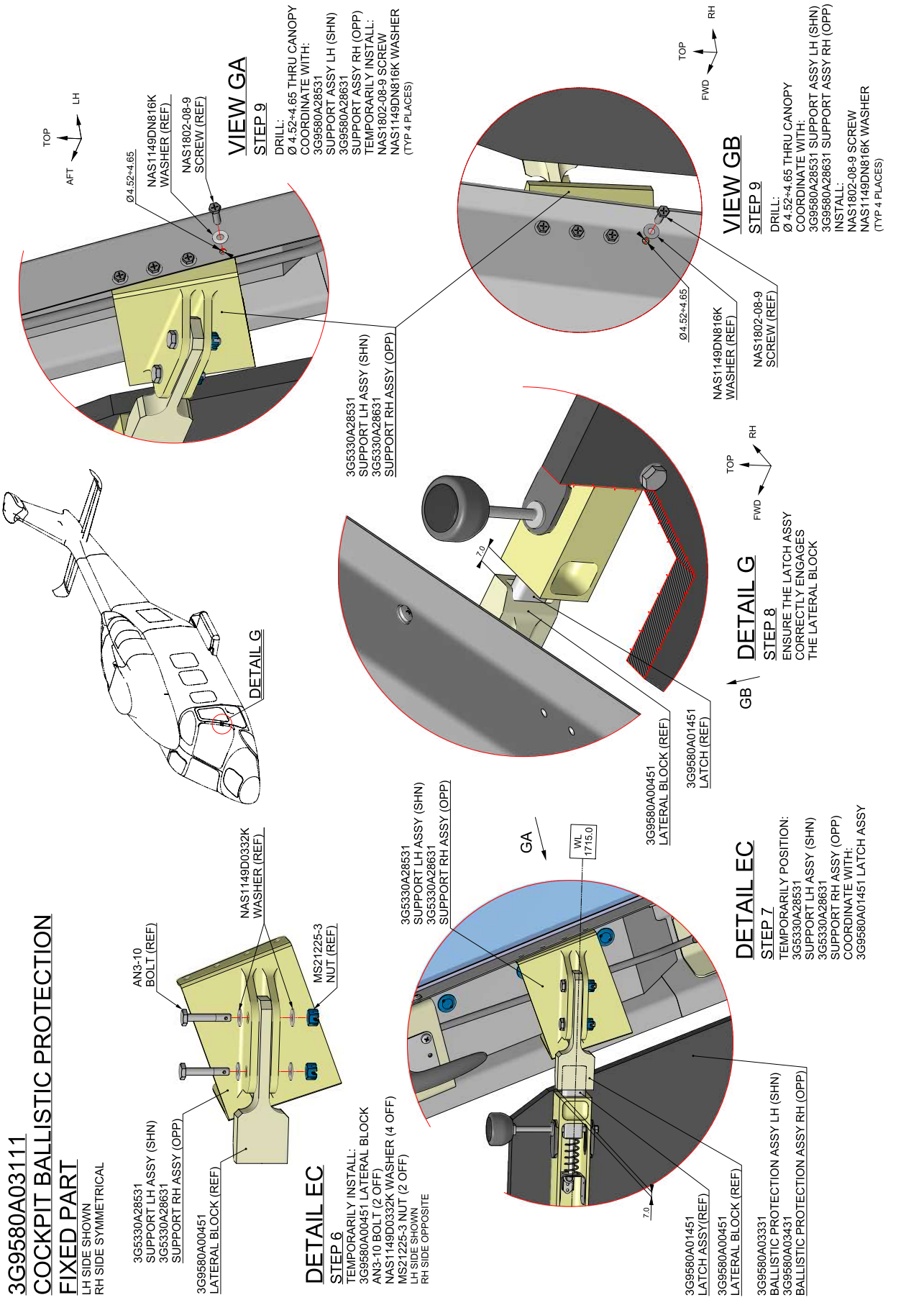
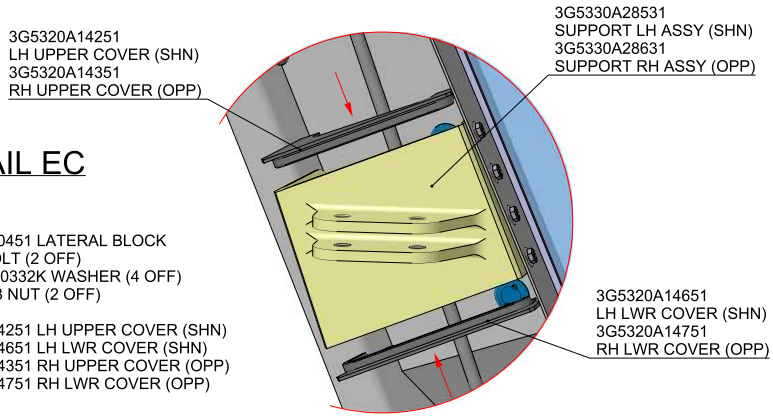

3G9580A03111
COCKPIT BALLISTIC PROTECTION
FIXED PART
LH SIDE SHOWN
RH SIDE SYMMETRICAL
VIEW GA
STEP 9
DRILL:
Ø 4.52÷4.65 THRU CANOPY
COORDINATE WITH:
3G9580A28531
SUPPORT ASSY LH (SHN)
3G9580A28631
SUPPORT ASSY RH (OPP)
TEMPORARILY INSTALL:
NAS1802-08-9 SCREW
NAS1149DN816K WASHER
(TYP 4 PLACES)
Ø4.52÷4.65
NAS1149DN816K
WASHER (REF)
NAS1802-08-9
SCREW (REF)
TOP
AFT
LH
3G5330A28531
SUPPORT LH ASSY (SHN)
3G5330A28631
SUPPORT RH ASSY (OPP)
VIEW GB
STEP 9
DRILL:
Ø 4.52÷4.65 THRU CANOPY
COORDINATE WITH:
3G9580A28531 SUPPORT ASSY LH (SHN)
3G9580A28631 SUPPORT ASSY RH (OPP)
INSTALL:
NAS1802-08-9 SCREW
NAS1149DN816K WASHER
(TYP 4 PLACES)
TOP
FWD
RH
DETAIL G
DETAIL G
STEP 8
ENSURE THE LATCH ASSY
CORRECTLY ENGAGES
THE LATERAL BLOCK
7.0
3G9580A00451
LATERAL BLOCK (REF)
3G9580A01451
LATCH (REF)
GB
DETAIL EC
STEP 6
TEMPORARILY INSTALL:
3G9580A00451 LATERAL BLOCK
AN3-10 BOLT (2 OFF)
NAS1149D0332K WASHER (4 OFF)
MS21225-3 NUT (2 OFF)
LH SIDE SHOWN
RH SIDE OPPOSITE
AN3-10
BOLT (REF)
NAS1149D0332K
WASHER (REF)
MS21225-3
NUT (REF)
3G5330A28531
SUPPORT LH ASSY (SHN)
3G5330A28631
SUPPORT RH ASSY (OPP)
3G9580A00451
LATERAL BLOCK (REF)
DETAIL EC
STEP 7
TEMPORARILY POSITION:
3G5330A28531
SUPPORT LH ASSY (SHN)
3G5330A28631
SUPPORT RH ASSY (OPP)
COORDINATE WITH:
3G9580A01451 LATCH ASSY
3G9580A03331
BALLISTIC PROTECTION ASSY LH (SHN)
3G9580A03431
BALLISTIC PROTECTION ASSY RH (OPP)
GA
WL
1715.0
7.0
3G9580A01451
LATCH ASSY(REF)
3G9580A00451
LATERAL BLOCK (REF)

Figure 15

3G9580A03111 COCKPIT BALLISTIC PROTECTION FIXED PART



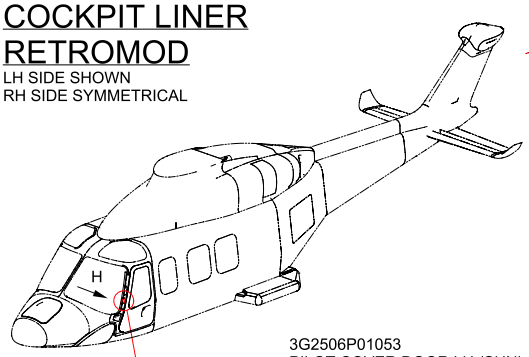
DETAIL EC

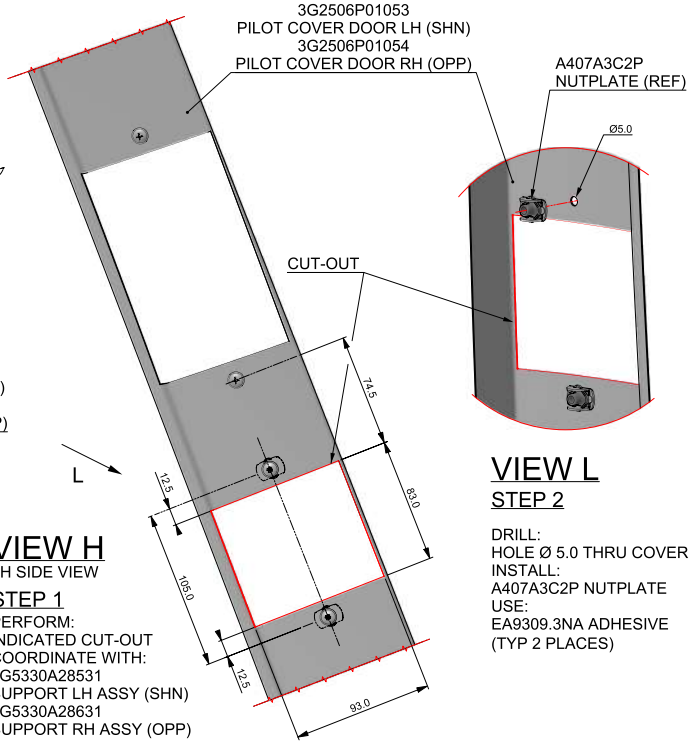
STEP 9

REMOVE:
3G9580A00451 LATERAL BLOCK
AN3-10 BOLT (2 OFF)
NAS1149D0332K WASHER (4 OFF)
MS21225-3 NUT (2 OFF)
INSTALL:
3G5320A14251 LH UPPER COVER (SHN)
3G5320A14651 LH LWR COVER (SHN)
3G5320A14351 RH UPPER COVER (OPP)
3G5320A14751 RH LWR COVER (OPP)

3G5320P01011 COCKPIT LINER RETROMOD

LH SIDE SHOWN
RH SIDE SYMMETRICAL

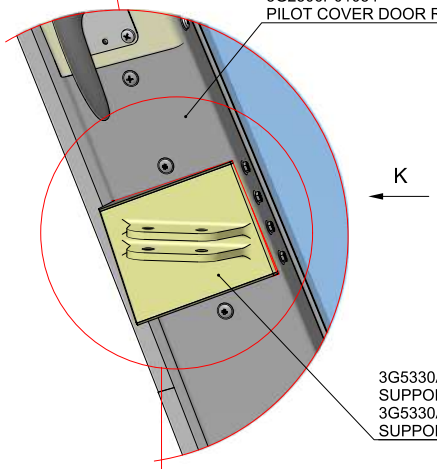




VIEW L

STEP 2

DRILL:
HOLE Ø 5.0 THRU COVER
INSTALL:
A407A3C2P NUTPLATE
USE:
EA9309.3NA ADHESIVE
(TYP 2 PLACES)

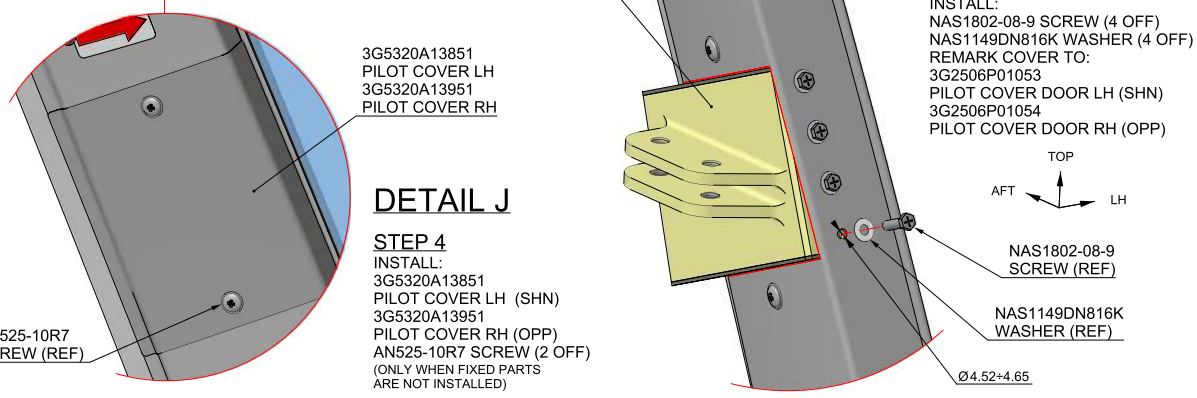


VIEW H

LH SIDE VIEW

STEP 1

PERFORM:
INDICATED CUT-OUT
COORDINATE WITH:
3G5330A28531
SUPPORT LH ASSY (SHN)
3G5330A28631
SUPPORT RH ASSY (OPP)



VIEW K

STEP 3

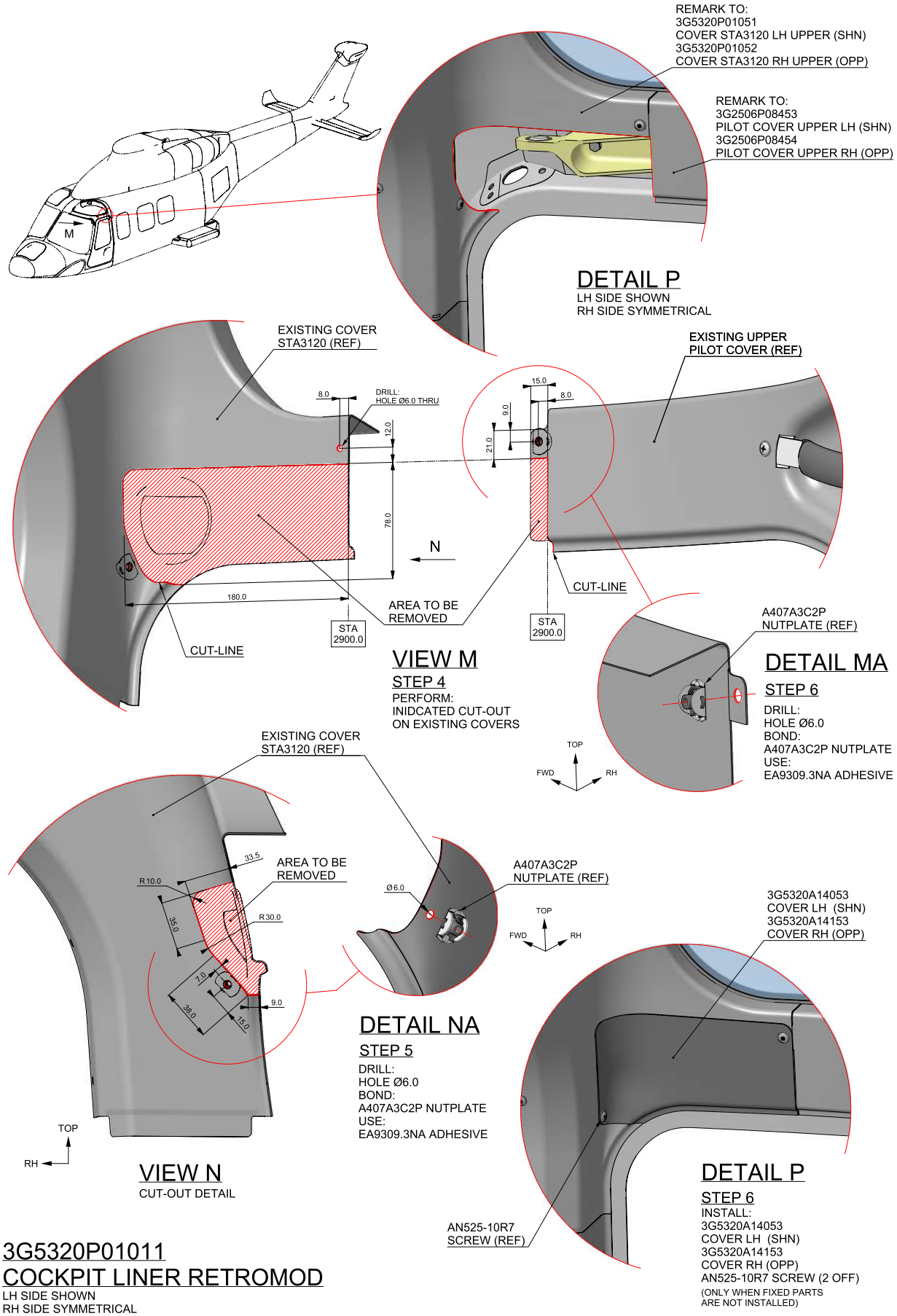
DRILL:
HOLE Ø 4.52÷4.65 THRU COVER
COORDINATE WITH:
EXISTING HOLES
INSTALL:
NAS1802-08-9 SCREW (4 OFF)
NAS1149DN816K WASHER (4 OFF)
REMARK COVER TO:
3G2506P01053
PILOT COVER DOOR LH (SHN)
3G2506P01054
PILOT COVER DOOR RH (OPP)

DETAIL J

STEP 4

INSTALL:
3G5320A13851
PILOT COVER LH (SHN)
3G5320A13951
PILOT COVER RH (OPP)
AN525-10R7 SCREW (2 OFF)
(ONLY WHEN FIXED PARTS
ARE NOT INSTALLED)

Figure 16



3G5320P01011
COCKPIT LINER RETROMOD
LH SIDE SHOWN
RH SIDE SYMMETRICAL

Figure 17

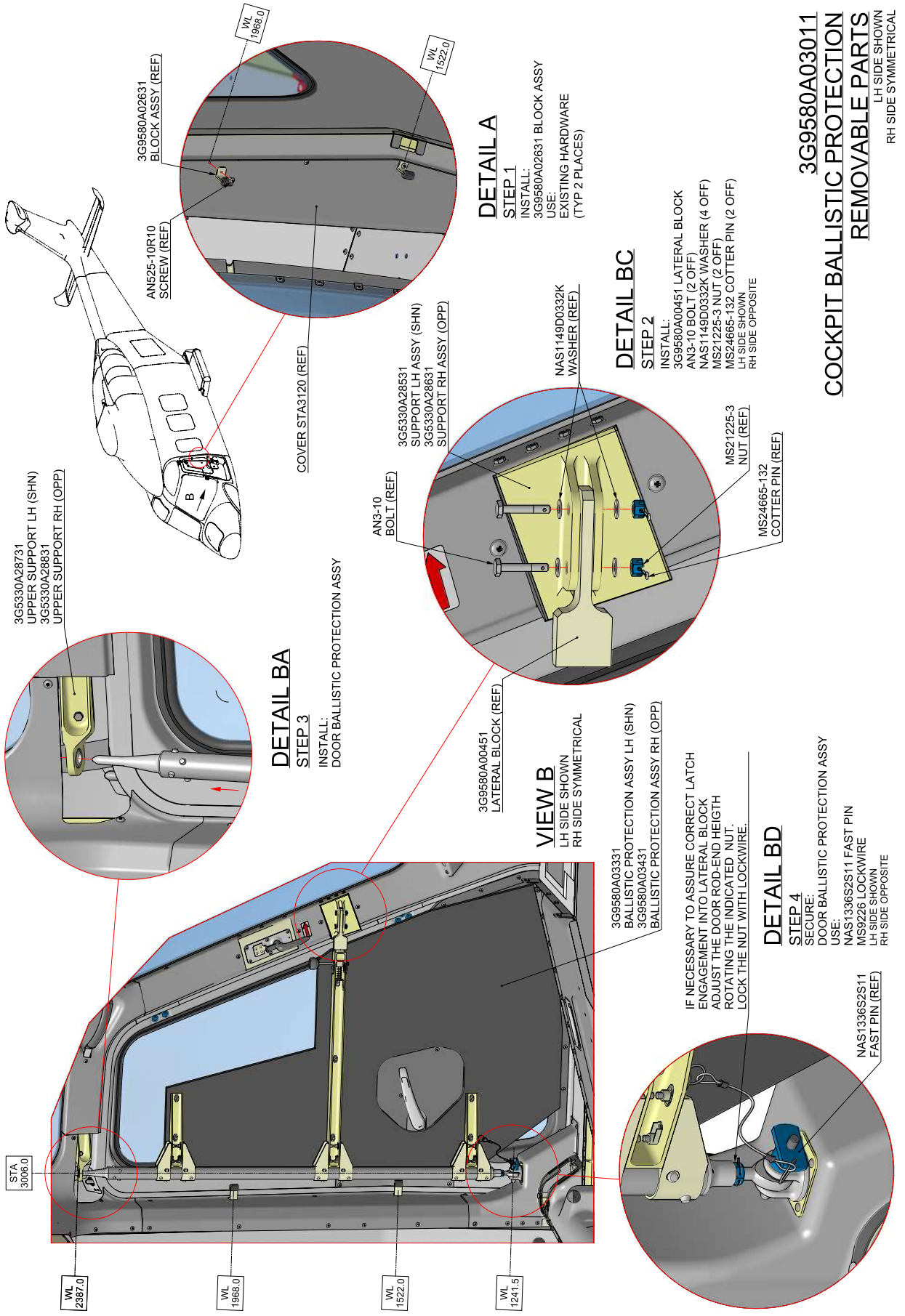

3G9580A03011
COCKPIT BALLISTIC PROTECTION
REMOVABLE PARTS
LH SIDE SHOWN
RH SIDE SYMMETRICAL
DETAIL A
STEP 1
INSTALL:
3G9580A02631 BLOCK ASSY
USE:
EXISTING HARDWARE
(TYP 2 PLACES)
DETAIL BC
STEP 2
INSTALL:
3G9580A00451 LATERAL BLOCK
AN3-10 BOLT (2 OFF)
NAS1149D0332K WASHER (4 OFF)
MS21225-3 NUT (2 OFF)
MS24665-132 COTTER PIN (2 OFF)
LH SIDE SHOWN
RH SIDE OPPOSITE
DETAIL BA
STEP 3
INSTALL:
DOOR BALLISTIC PROTECTION ASSY
DETAIL BD
STEP 4
SECURE:
DOOR BALLISTIC PROTECTION ASSY
USE:
NAS1336S2S11 FAST PIN
MS9226 LOCKWIRE
LH SIDE SHOWN
RH SIDE OPPOSITE
VIEW B
LH SIDE SHOWN
RH SIDE SYMMETRICAL
3G9580A02631
BLOCK ASSY (REF)
AN525-10R10
SCREW (REF)
COVER STA3120 (REF)
3G5330A28731
UPPER SUPPORT LH (SHN)
3G5330A28831
UPPER SUPPORT RH (OPP)
3G5330A28531
SUPPORT LH ASSY (SHN)
3G5330A28631
SUPPORT RH ASSY (OPP)
NAS1149D0332K
WASHER (REF)
AN3-10
BOLT (REF)
MS21225-3
NUT (REF)
MS24665-132
COTTER PIN (REF)
3G9580A00451
LATERAL BLOCK (REF)
3G9580A03331
BALLISTIC PROTECTION ASSY LH (SHN)
3G9580A03431
BALLISTIC PROTECTION ASSY RH (OPP)
IF NECESSARY TO ASSURE CORRECT LATCH
ENGAGEMENT INTO LATERAL BLOCK
ADJUST THE DOOR ROD-END HEIGTH
ROTATING THE INDICATED NUT.
LOCK THE NUT WITH LOCKWIRE.
NAS1336S2S11
FAST PIN (REF)
STA
3006.0
WL
2387.0
WL
1968.0
WL
1522.0
WL
1241.5
B

Figure 18

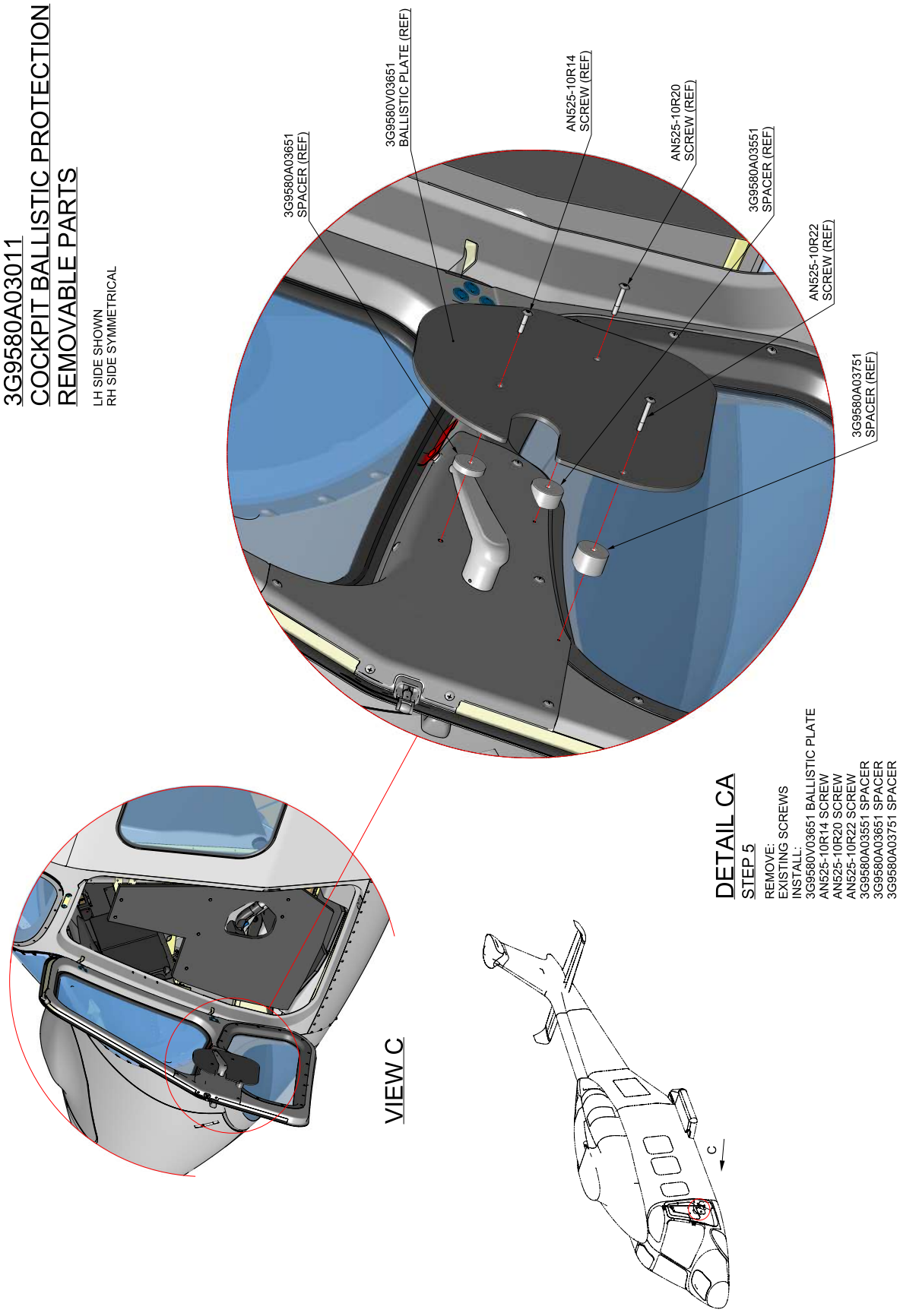

3G9580A03011
COCKPIT BALLISTIC PROTECTION
REMOVABLE PARTS
LH SIDE SHOWN
RH SIDE SYMMETRICAL
3G9580A03651
SPACER (REF)
3G9580V03651
BALLISTIC PLATE (REF)
AN525-10R14
SCREW (REF)
AN525-10R20
SCREW (REF)
3G9580A03551
SPACER (REF)
AN525-10R22
SCREW (REF)
3G9580A03751
SPACER (REF)
DETAIL CA
STEP 5
REMOVE:
EXISTING SCREWS
INSTALL:
3G9580V03651 BALLISTIC PLATE
AN525-10R14 SCREW
AN525-10R20 SCREW
AN525-10R22 SCREW
3G9580A03551 SPACER
3G9580A03651 SPACER
3G9580A03751 SPACER
VIEW C
C

Figure 19

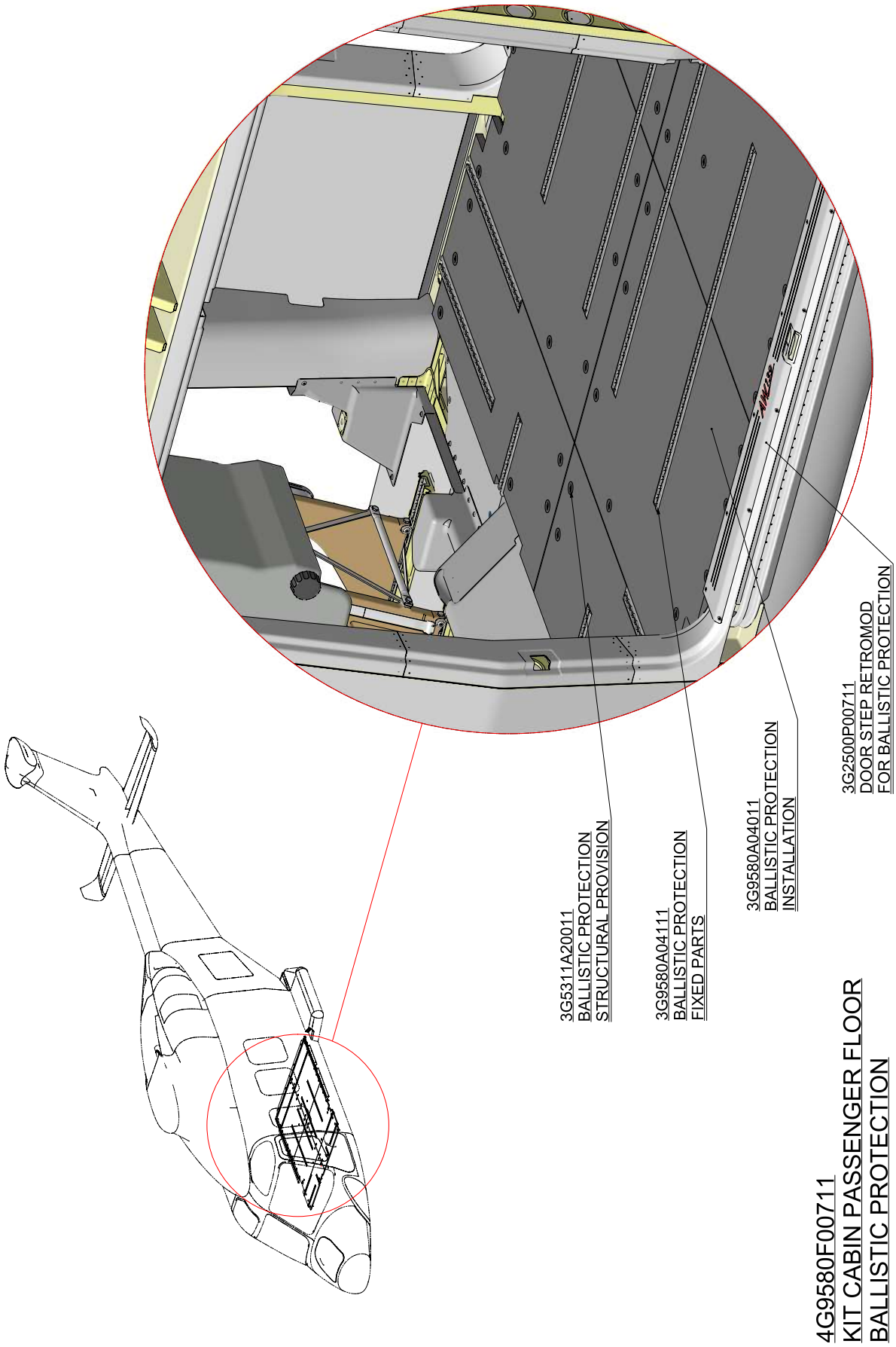
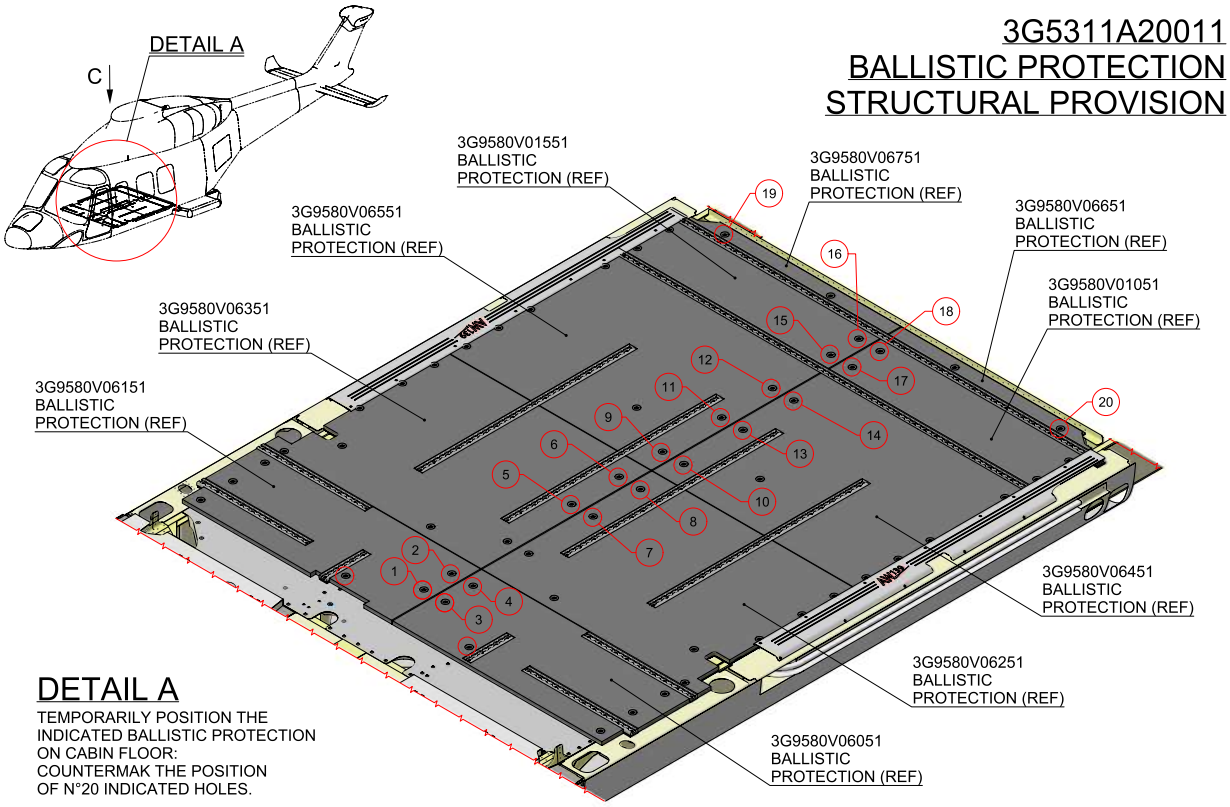

4G9580F00711
KIT CABIN PASSENGER FLOOR
BALLISTIC PROTECTION
3G5311A20011
BALLISTIC PROTECTION
STRUCTURAL PROVISION
3G9580A04111
BALLISTIC PROTECTION
FIXED PARTS
3G9580A04011
BALLISTIC PROTECTION
INSTALLATION
3G2500P00711
DOOR STEP RETROMOD
FOR BALLISTIC PROTECTION

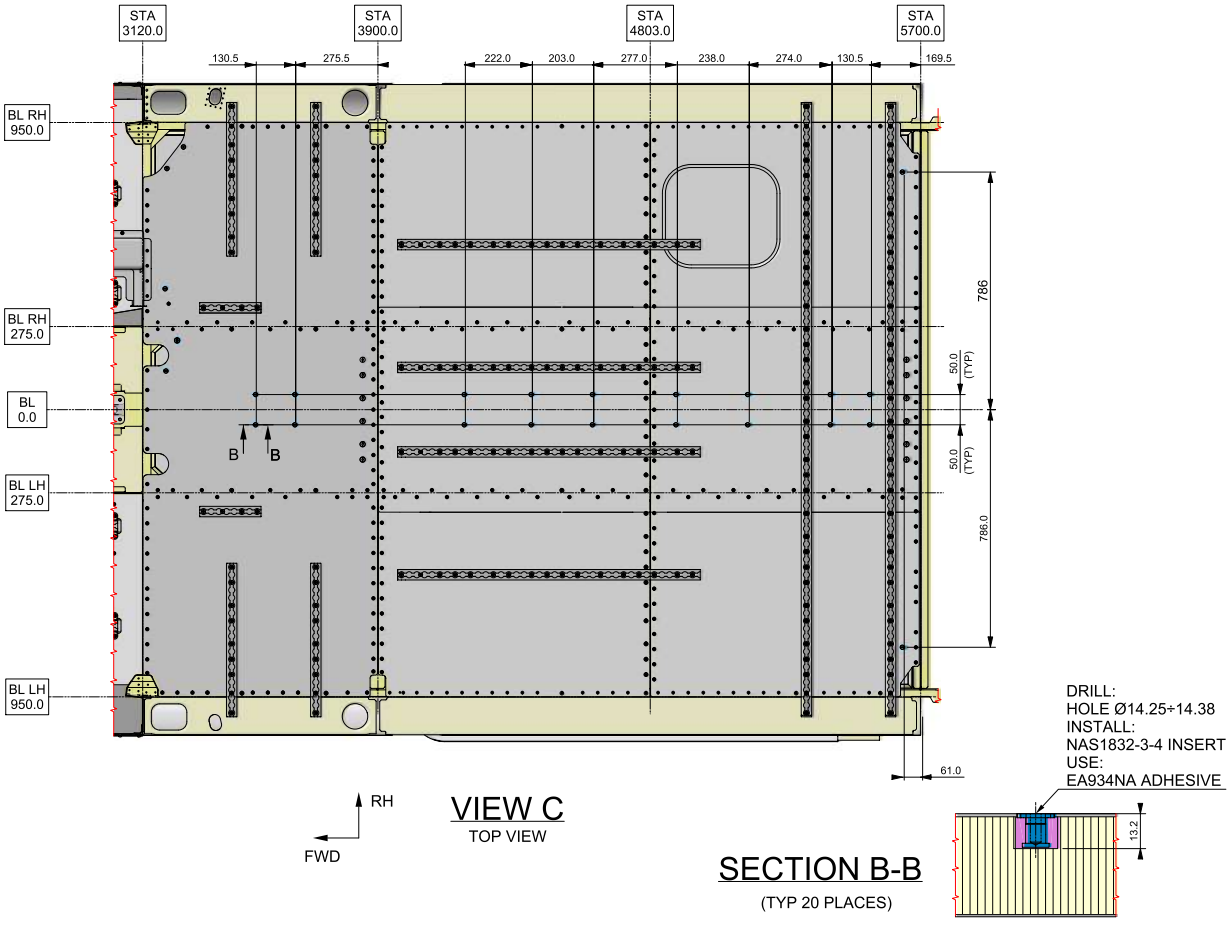
Figure 20

3G5311A20011
BALLISTIC PROTECTION STRUCTURAL PROVISION



DETAIL A

TEMPORARILY POSITION THE INDICATED BALLISTIC PROTECTION ON CABIN FLOOR:
COUNTERMAK THE POSITION OF N°20 INDICATED HOLES.



VIEW C
TOP VIEW

SECTION B-B
(TYP 20 PLACES)

Figure 21

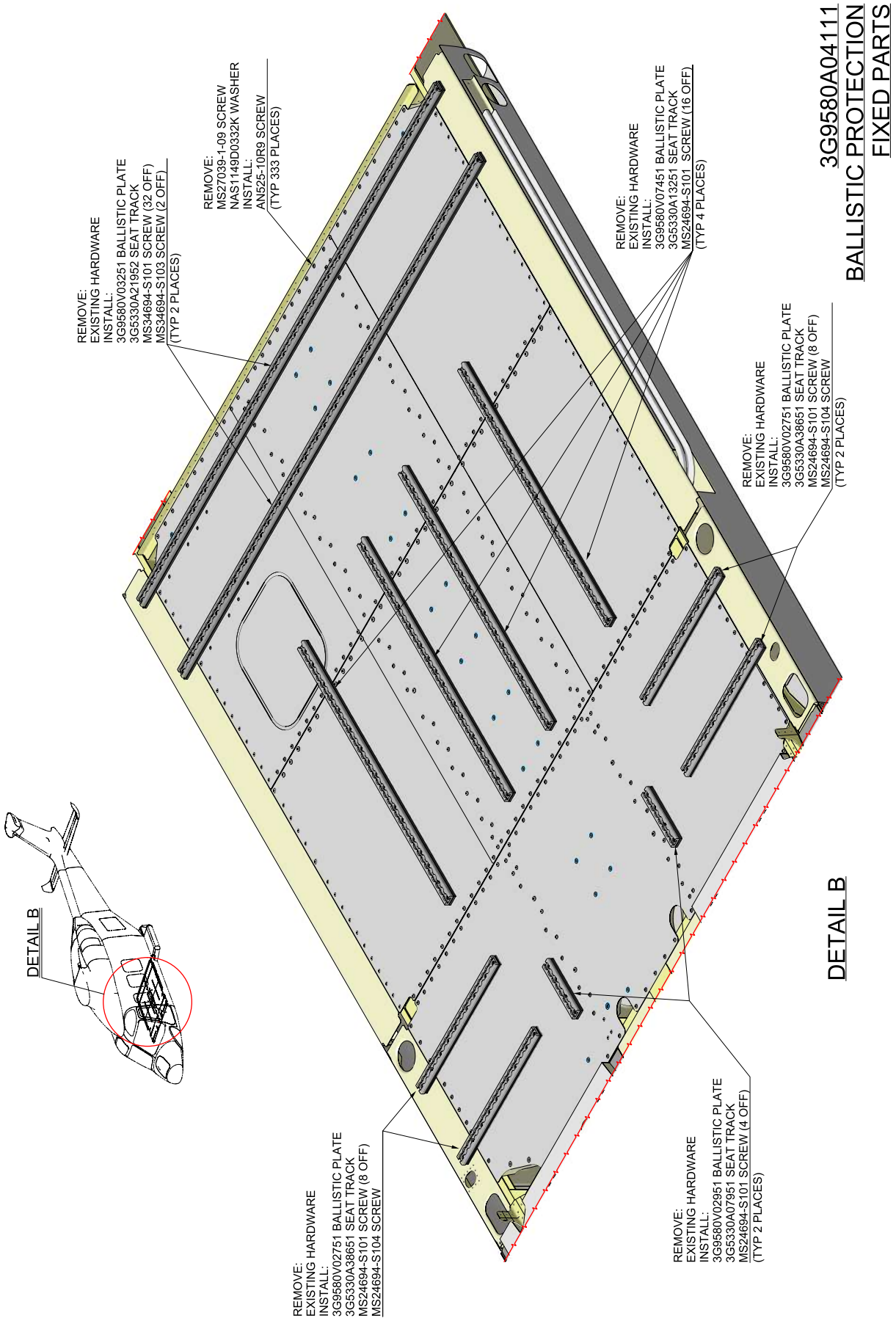

3G9580A04111
BALLISTIC PROTECTION
FIXED PARTS
REMOVE:
EXISTING HARDWARE
INSTALL:
3G9580V03251 BALLISTIC PLATE
3G5330A21952 SEAT TRACK
MS34694-S101 SCREW (32 OFF)
MS34694-S103 SCREW (2 OFF)
(TYP 2 PLACES)
REMOVE:
MS27039-1-09 SCREW
NAS1149D0332K WASHER
INSTALL:
AN525-10R9 SCREW
(TYP 333 PLACES)
REMOVE:
EXISTING HARDWARE
INSTALL:
3G9580V07451 BALLISTIC PLATE
3G5330A13251 SEAT TRACK
MS24694-S101 SCREW (16 OFF)
(TYP 4 PLACES)
REMOVE:
EXISTING HARDWARE
INSTALL:
3G9580V02751 BALLISTIC PLATE
3G5330A38651 SEAT TRACK
MS24694-S101 SCREW (8 OFF)
MS24694-S104 SCREW
(TYP 2 PLACES)
DETAIL B
DETAIL B
REMOVE:
EXISTING HARDWARE
INSTALL:
3G9580V02751 BALLISTIC PLATE
3G5330A38651 SEAT TRACK
MS24694-S101 SCREW (8 OFF)
MS24694-S104 SCREW
REMOVE:
EXISTING HARDWARE
INSTALL:
3G9580V02951 BALLISTIC PLATE
3G5330A07951 SEAT TRACK
MS24694-S101 SCREW (4 OFF)
(TYP 2 PLACES)

Figure 22

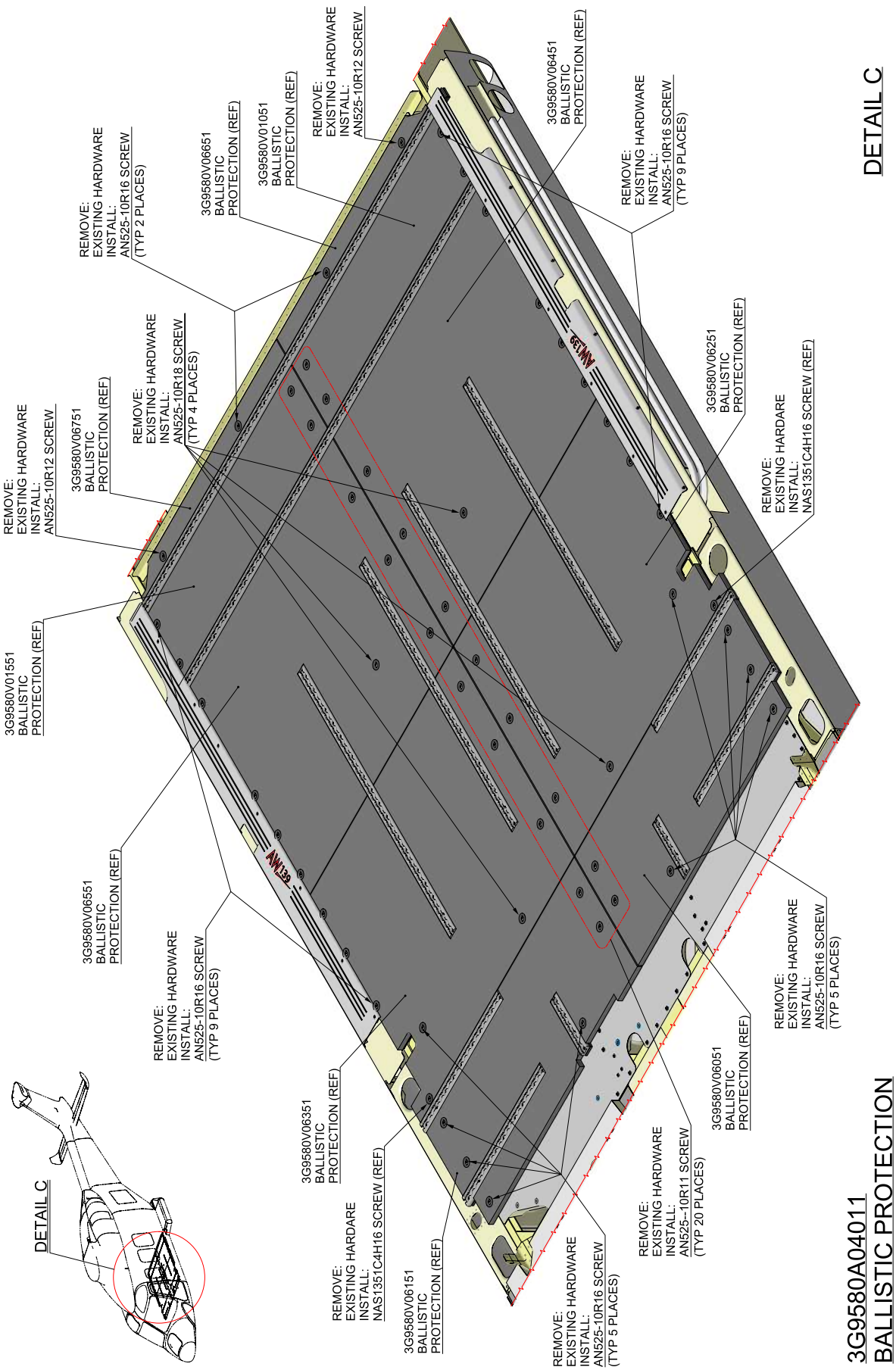
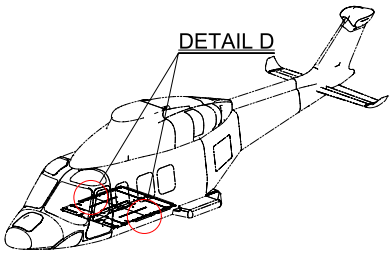
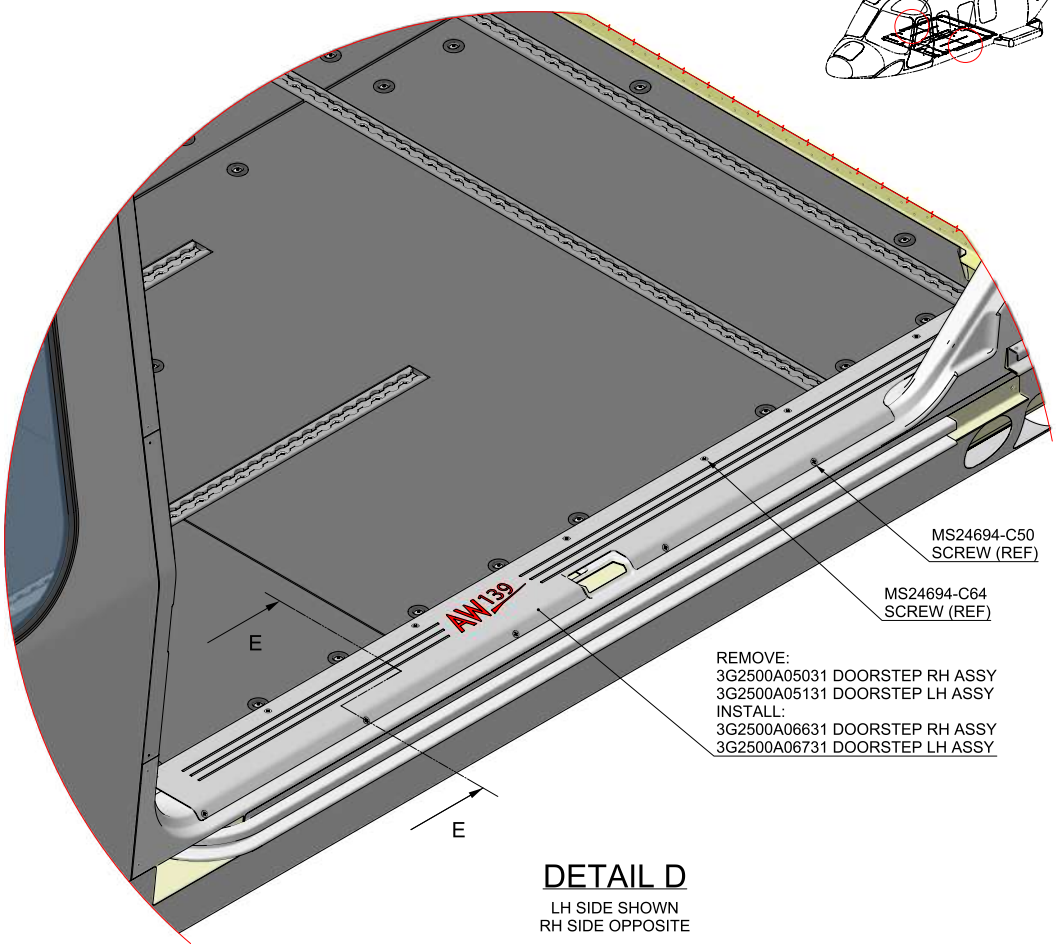
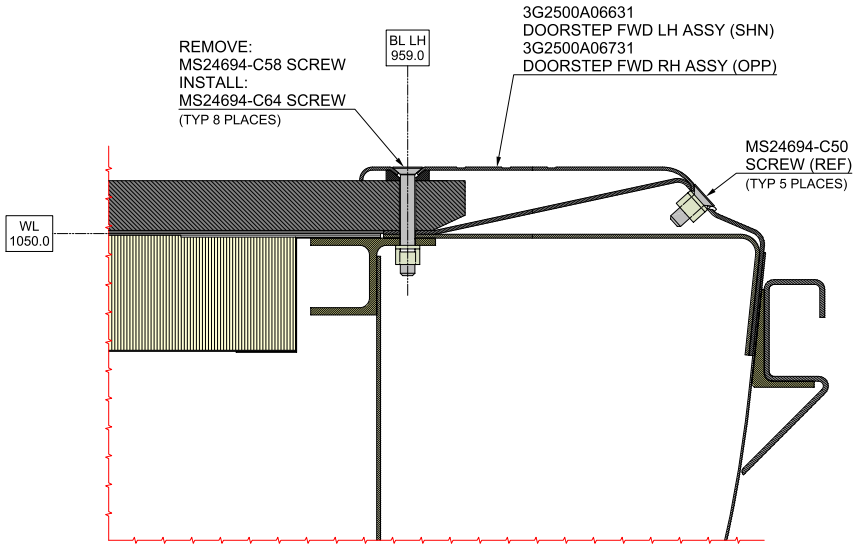

3G9580A04011
BALLISTIC PROTECTION
INSTALLATION
DETAIL C
DETAIL C
REMOVE:
EXISTING HARDWARE
INSTALL:
AN525-10R12 SCREW
3G9580V01551
BALLISTIC
PROTECTION (REF)
REMOVE:
EXISTING HARDWARE
INSTALL:
AN525-10R16 SCREW
(TYP 2 PLACES)
3G9580V06751
BALLISTIC
PROTECTION (REF)
REMOVE:
EXISTING HARDWARE
INSTALL:
AN525-10R18 SCREW
(TYP 4 PLACES)
3G9580V06551
BALLISTIC
PROTECTION (REF)
REMOVE:
EXISTING HARDWARE
INSTALL:
AN525-10R16 SCREW
(TYP 9 PLACES)
3G9580V06351
BALLISTIC
PROTECTION (REF)
REMOVE:
EXISTING HARDARE
INSTALL:
NAS1351C4H16 SCREW (REF)
3G9580V06151
BALLISTIC
PROTECTION (REF)
REMOVE:
EXISTING HARDWARE
INSTALL:
AN525-10R16 SCREW
(TYP 5 PLACES)
REMOVE:
EXISTING HARDWARE
INSTALL:
AN525--10R11 SCREW
(TYP 20 PLACES)
3G9580V06051
BALLISTIC
PROTECTION (REF)
REMOVE:
EXISTING HARDWARE
INSTALL:
AN525-10R16 SCREW
(TYP 5 PLACES)
REMOVE:
EXISTING HARDARE
INSTALL:
NAS1351C4H16 SCREW (REF)
3G9580V06251
BALLISTIC
PROTECTION (REF)
REMOVE:
EXISTING HARDWARE
INSTALL:
AN525-10R16 SCREW
(TYP 9 PLACES)
3G9580V06451
BALLISTIC
PROTECTION (REF)
REMOVE:
EXISTING HARDWARE
INSTALL:
AN525-10R12 SCREW
3G9580V01051
BALLISTIC
PROTECTION (REF)
3G9580V06651
BALLISTIC
PROTECTION (REF)
AW139
AW139

Figure 23





DETAIL D
LH SIDE SHOWN
RH SIDE OPPOSITE



SECTION E-E
LH SIDE SHOWN
RH SIDE OPPOSITE

Figure 24

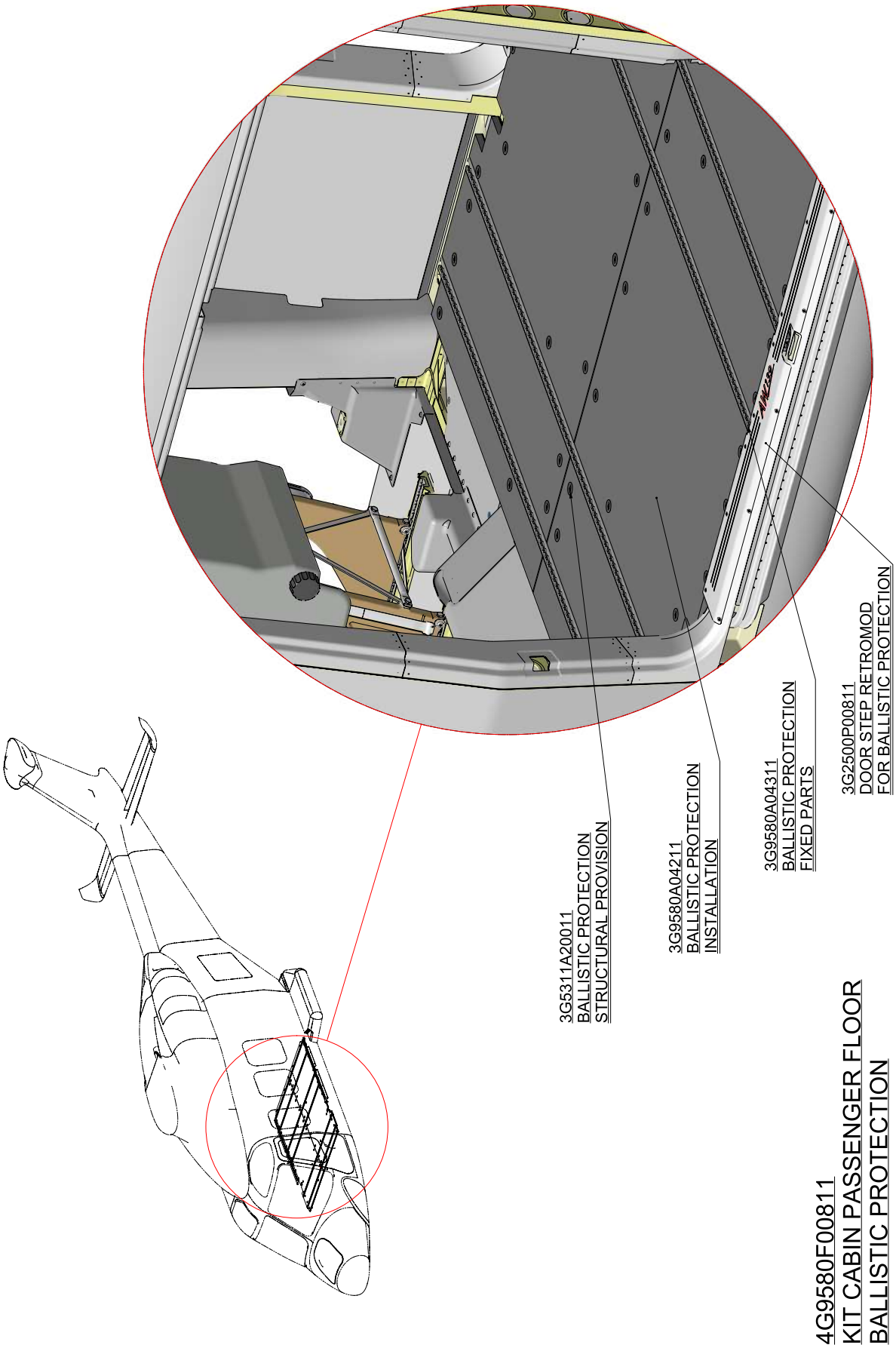

3G5311A20011
BALLISTIC PROTECTION
STRUCTURAL PROVISION
3G9580A04211
BALLISTIC PROTECTION
INSTALLATION
3G9580A04311
BALLISTIC PROTECTION
FIXED PARTS
3G2500P00811
DOOR STEP RETROMOD
FOR BALLISTIC PROTECTION
4G9580F00811
KIT CABIN PASSENGER FLOOR
BALLISTIC PROTECTION

Figure 25

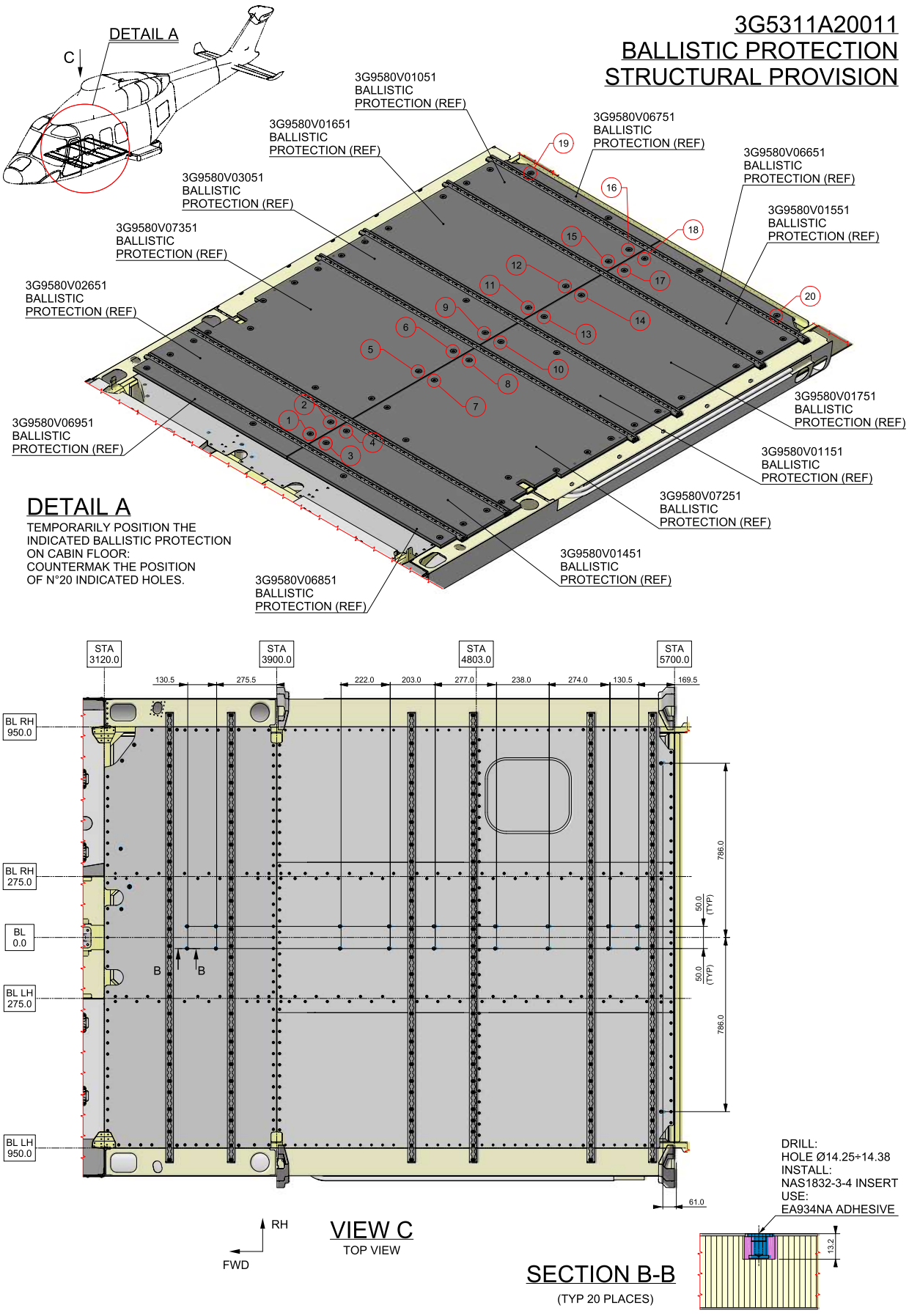

3G5311A20011
BALLISTIC PROTECTION
STRUCTURAL PROVISION
DETAIL A
C
3G9580V01051 BALLISTIC PROTECTION (REF)
3G9580V01651 BALLISTIC PROTECTION (REF)
3G9580V06751 BALLISTIC PROTECTION (REF)
3G9580V03051 BALLISTIC PROTECTION (REF)
3G9580V06651 BALLISTIC PROTECTION (REF)
3G9580V07351 BALLISTIC PROTECTION (REF)
3G9580V01551 BALLISTIC PROTECTION (REF)
3G9580V02651 BALLISTIC PROTECTION (REF)
3G9580V01751 BALLISTIC PROTECTION (REF)
3G9580V06951 BALLISTIC PROTECTION (REF)
3G9580V01151 BALLISTIC PROTECTION (REF)
3G9580V07251 BALLISTIC PROTECTION (REF)
3G9580V01451 BALLISTIC PROTECTION (REF)
3G9580V06851 BALLISTIC PROTECTION (REF)
DETAIL A
TEMPORARILY POSITION THE INDICATED BALLISTIC PROTECTION ON CABIN FLOOR:
COUNTERMAK THE POSITION OF N°20 INDICATED HOLES.
STA 3120.0
STA 3900.0
STA 4803.0
STA 5700.0
130.5
275.5
222.0
203.0
277.0
238.0
274.0
130.5
169.5
BL RH 950.0
BL RH 275.0
BL 0.0
BL LH 275.0
BL LH 950.0
786.0
50.0 (TYP)
50.0 (TYP)
786.0
61.0
B
B
RH
FWD
VIEW C
TOP VIEW
SECTION B-B
(TYP 20 PLACES)
DRILL:
HOLE Ø14.25÷14.38
INSTALL:
NAS1832-3-4 INSERT
USE:
EA934NA ADHESIVE
13.2

Figure 26

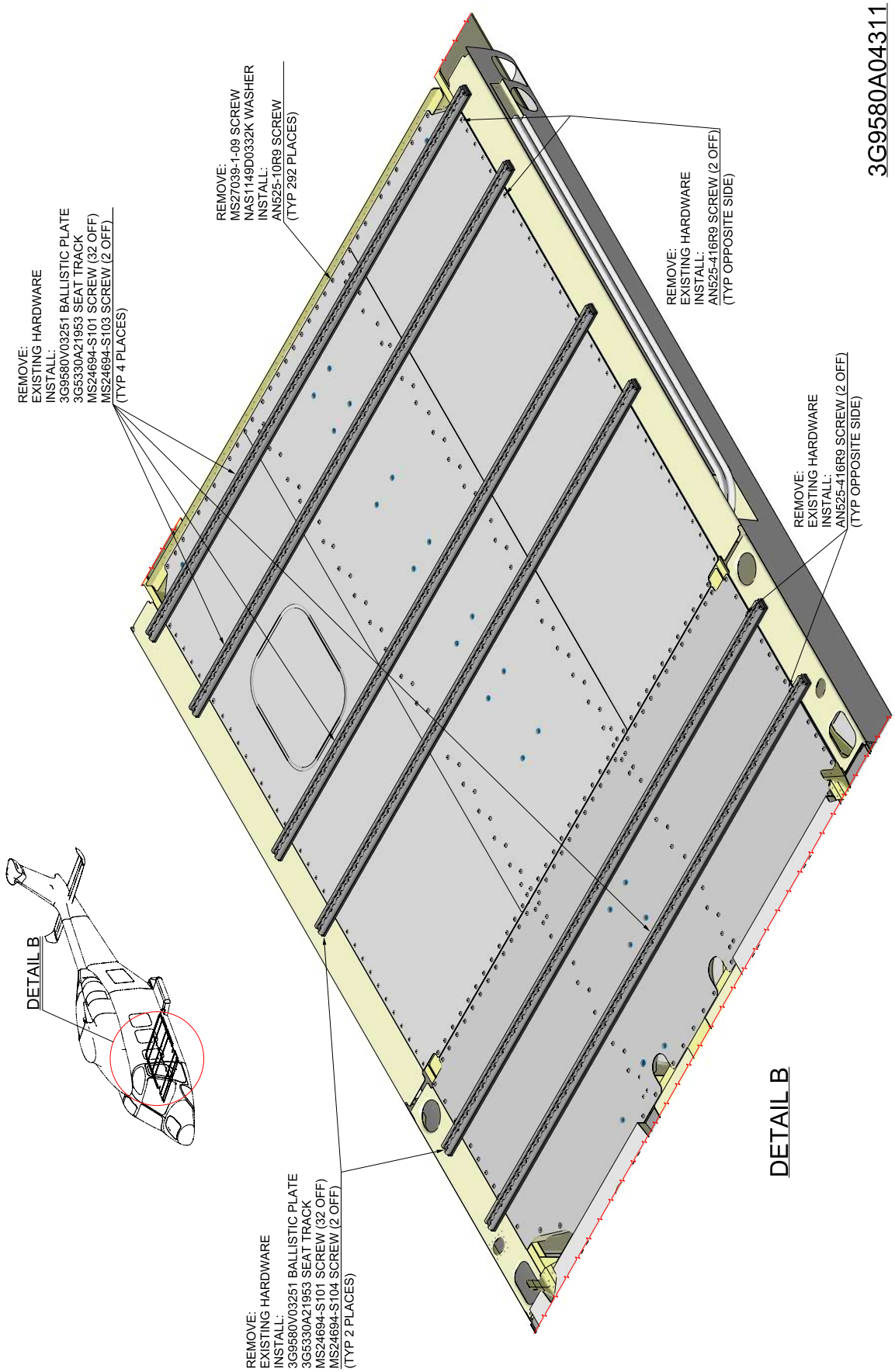

3G9580A04311
BALLISTIC PROTECTION
FIXED PARTS
REMOVE:
EXISTING HARDWARE
INSTALL:
3G9580V03251 BALLISTIC PLATE
3G5330A21953 SEAT TRACK
MS24694-S101 SCREW (32 OFF)
MS24694-S103 SCREW (2 OFF)
(TYP 4 PLACES)
REMOVE:
MS27039-1-09 SCREW
NAS1149D0332K WASHER
INSTALL:
AN525-10R9 SCREW
(TYP 292 PLACES)
REMOVE:
EXISTING HARDWARE
INSTALL:
AN525-416R9 SCREW (2 OFF)
(TYP OPPOSITE SIDE)
REMOVE:
EXISTING HARDWARE
INSTALL:
AN525-416R9 SCREW (2 OFF)
(TYP OPPOSITE SIDE)
DETAIL B
DETAIL B
REMOVE:
EXISTING HARDWARE
INSTALL:
3G9580V03251 BALLISTIC PLATE
3G5330A21953 SEAT TRACK
MS24694-S101 SCREW (32 OFF)
MS24694-S104 SCREW (2 OFF)
(TYP 2 PLACES)

Figure 27

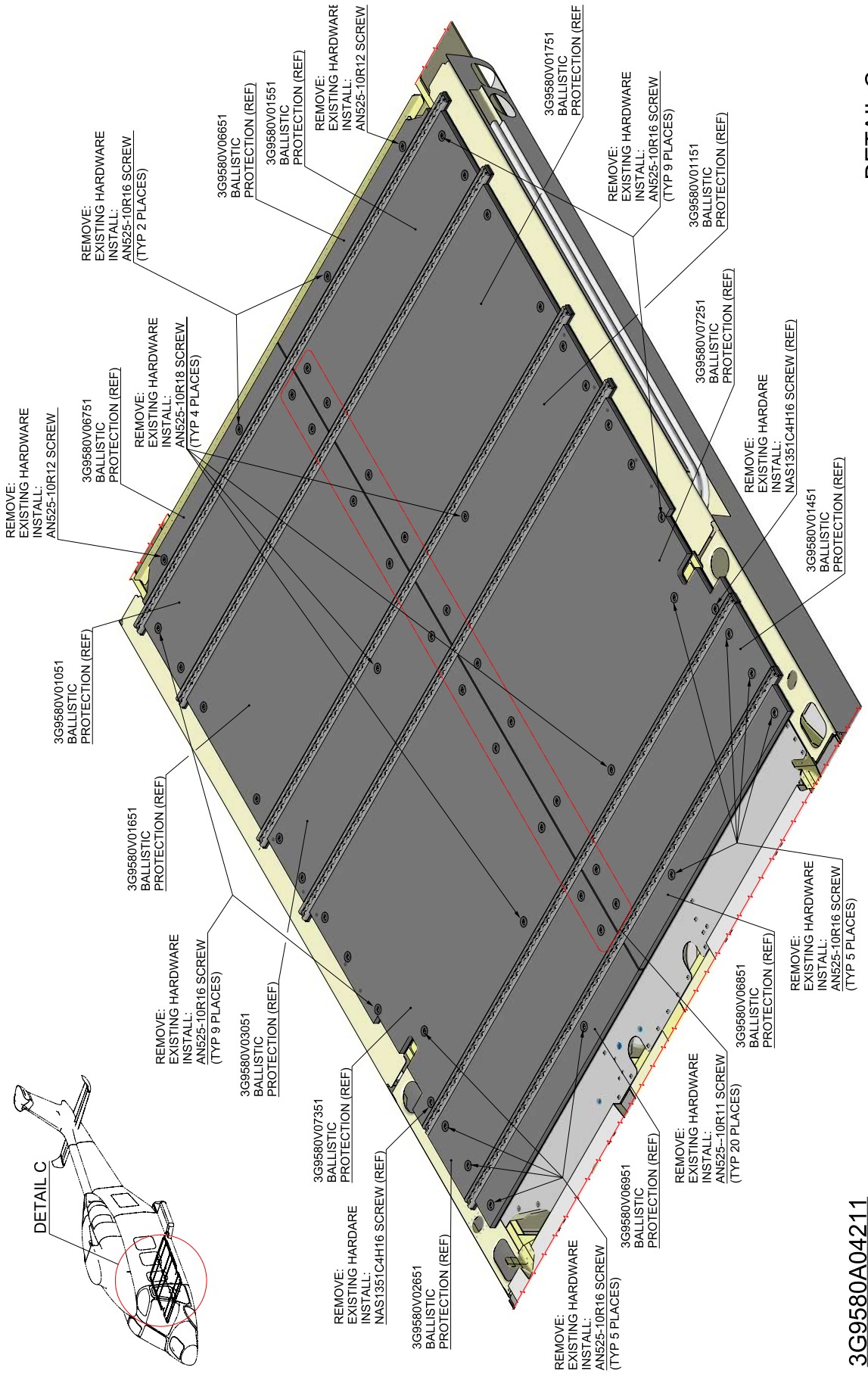
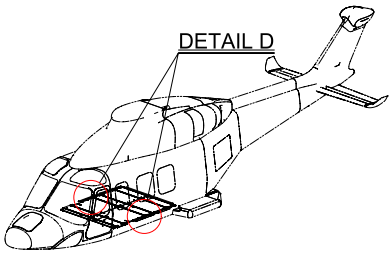
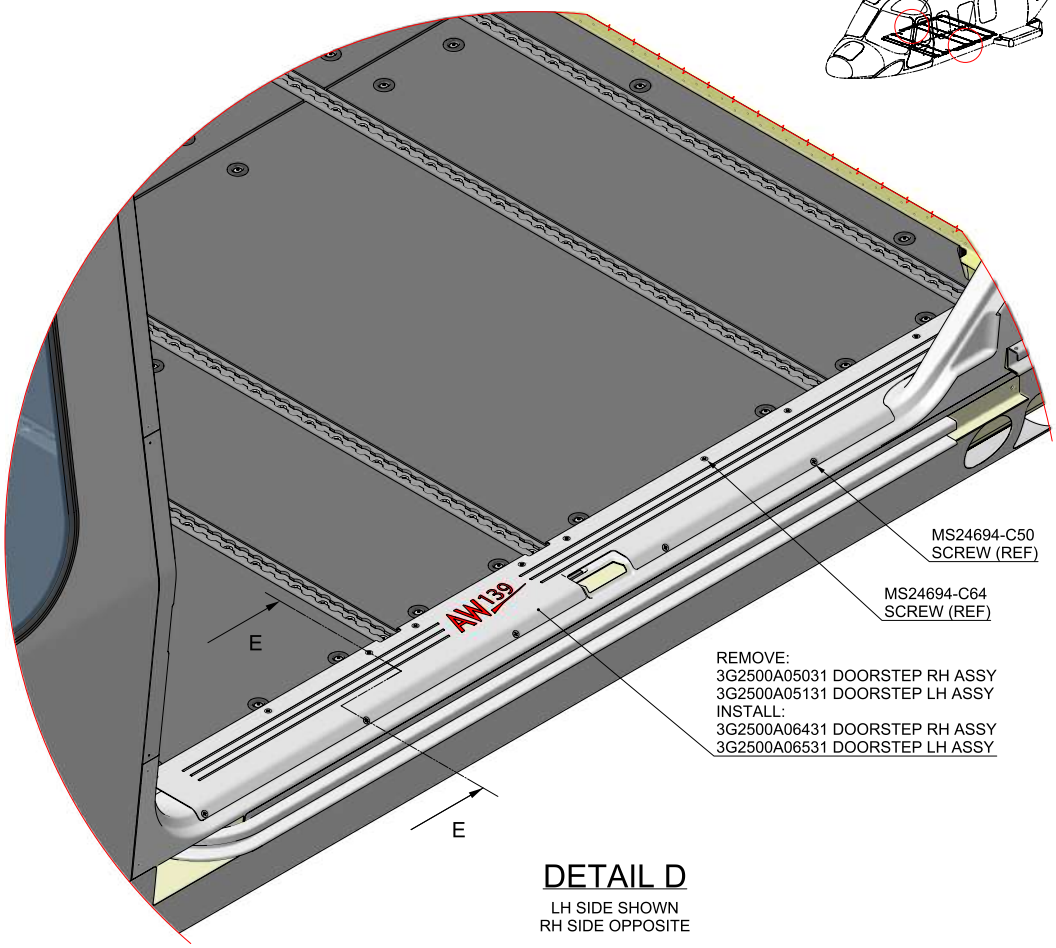
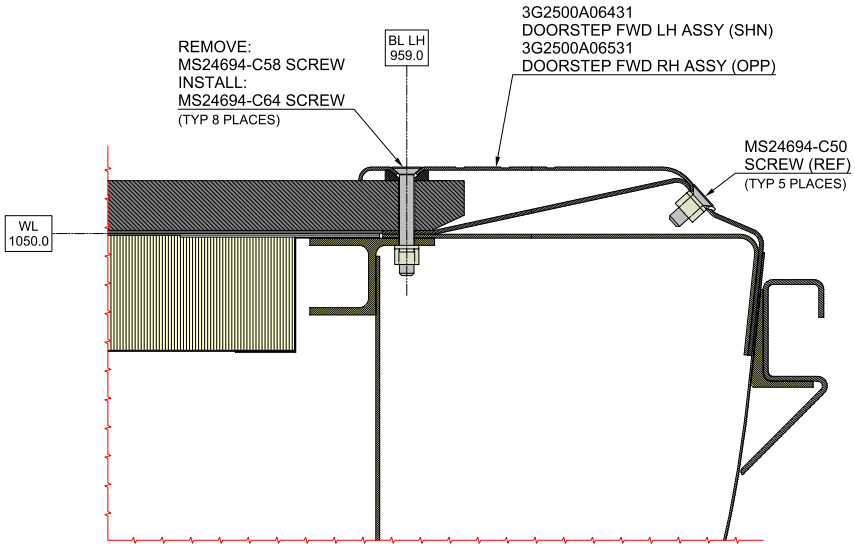

DETAIL C
REMOVE:
EXISTING HARDWARE
INSTALL:
AN525-10R12 SCREW
3G9580V06751
BALLISTIC
PROTECTION (REF)
REMOVE:
EXISTING HARDWARE
INSTALL:
AN525-10R18 SCREW
(TYP 4 PLACES)
REMOVE:
EXISTING HARDWARE
INSTALL:
AN525-10R16 SCREW
(TYP 2 PLACES)
3G9580V06651
BALLISTIC
PROTECTION (REF)
3G9580V01551
BALLISTIC
PROTECTION (REF)
REMOVE:
EXISTING HARDWARE
INSTALL:
AN525-10R12 SCREW
3G9580V01751
BALLISTIC
PROTECTION (REF
REMOVE:
EXISTING HARDWARE
INSTALL:
AN525-10R16 SCREW
(TYP 9 PLACES)
3G9580V01151
BALLISTIC
PROTECTION (REF)
3G9580V07251
BALLISTIC
PROTECTION (REF)
REMOVE:
EXISTING HARDARE
INSTALL:
NAS1351C4H16 SCREW (REF)
3G9580V01451
BALLISTIC
PROTECTION (REF)
3G9580V01051
BALLISTIC
PROTECTION (REF)
3G9580V01651
BALLISTIC
PROTECTION (REF)
REMOVE:
EXISTING HARDWARE
INSTALL:
AN525-10R16 SCREW
(TYP 9 PLACES)
3G9580V03051
BALLISTIC
PROTECTION (REF)
REMOVE:
EXISTING HARDWARE
INSTALL:
AN525-10R16 SCREW
(TYP 5 PLACES)
3G9580V07351
BALLISTIC
PROTECTION (REF)
REMOVE:
EXISTING HARDARE
INSTALL:
NAS1351C4H16 SCREW (REF)
3G9580V02651
BALLISTIC
PROTECTION (REF)
REMOVE:
EXISTING HARDWARE
INSTALL:
AN525-10R16 SCREW
(TYP 5 PLACES)
3G9580V06951
BALLISTIC
PROTECTION (REF)
REMOVE:
EXISTING HARDWARE
INSTALL:
AN525--10R11 SCREW
(TYP 20 PLACES)
3G9580V06851
BALLISTIC
PROTECTION (REF)
REMOVE:
EXISTING HARDWARE
INSTALL:
AN525-10R16 SCREW
(TYP 5 PLACES)
DETAIL C
3G9580A04211
BALLISTIC PROTECTION
INSTALLATION

Figure 28



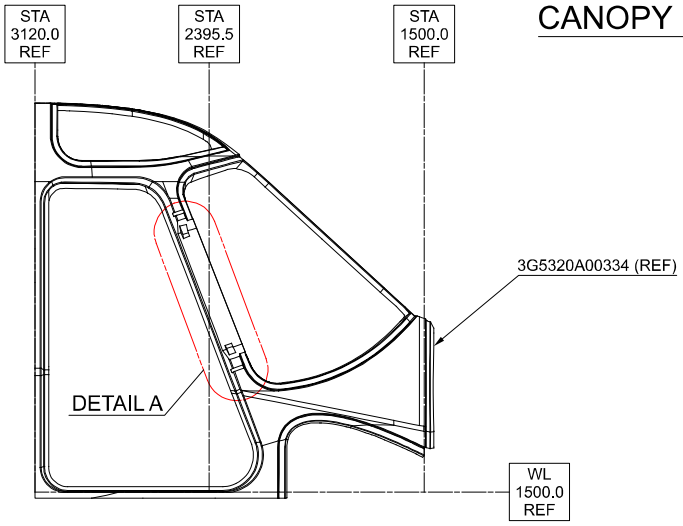


DETAIL D
LH SIDE SHOWN
RH SIDE OPPOSITE

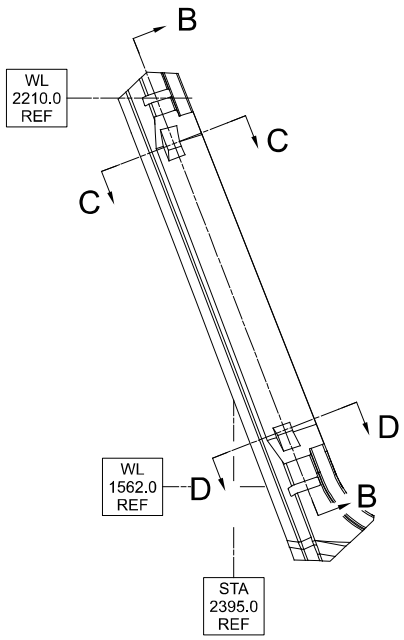


SECTION E-E
LH SIDE SHOWN
RH SIDE OPPOSITE

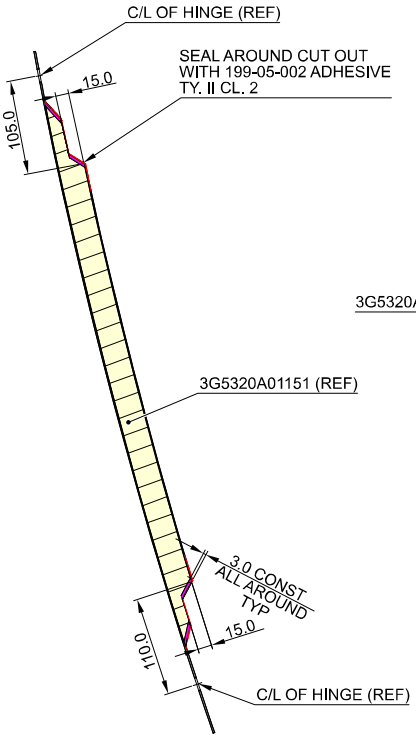
Figure 29



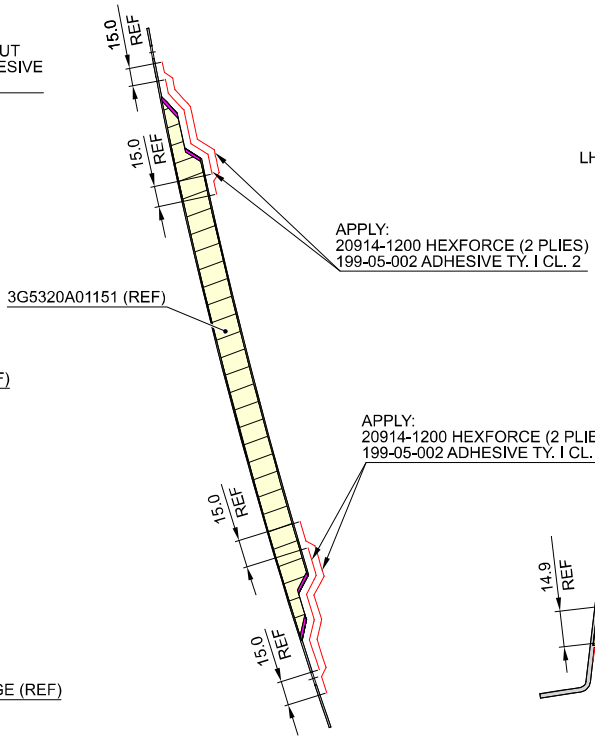
LEFT INSIDE VIEW
LH SHOWN RH OPPOSITE



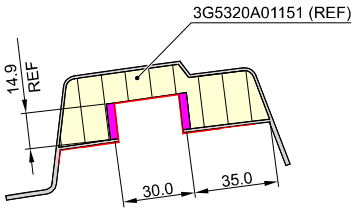
DETAIL A
LH SHOWN RH OPPOSITE



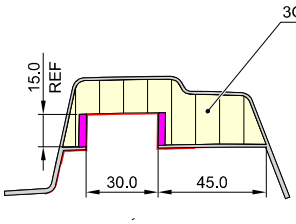
SECTION B-B



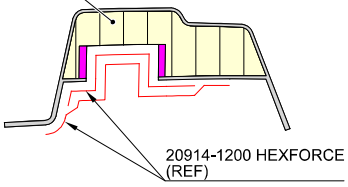
SCHEMATIC SECTION B-B



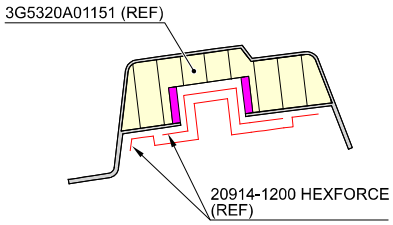
SECTION D-D



SECTION C-C



SCHEMATIC SECTION C-C



SCHEMATIC SECTION D-D

Figure 30

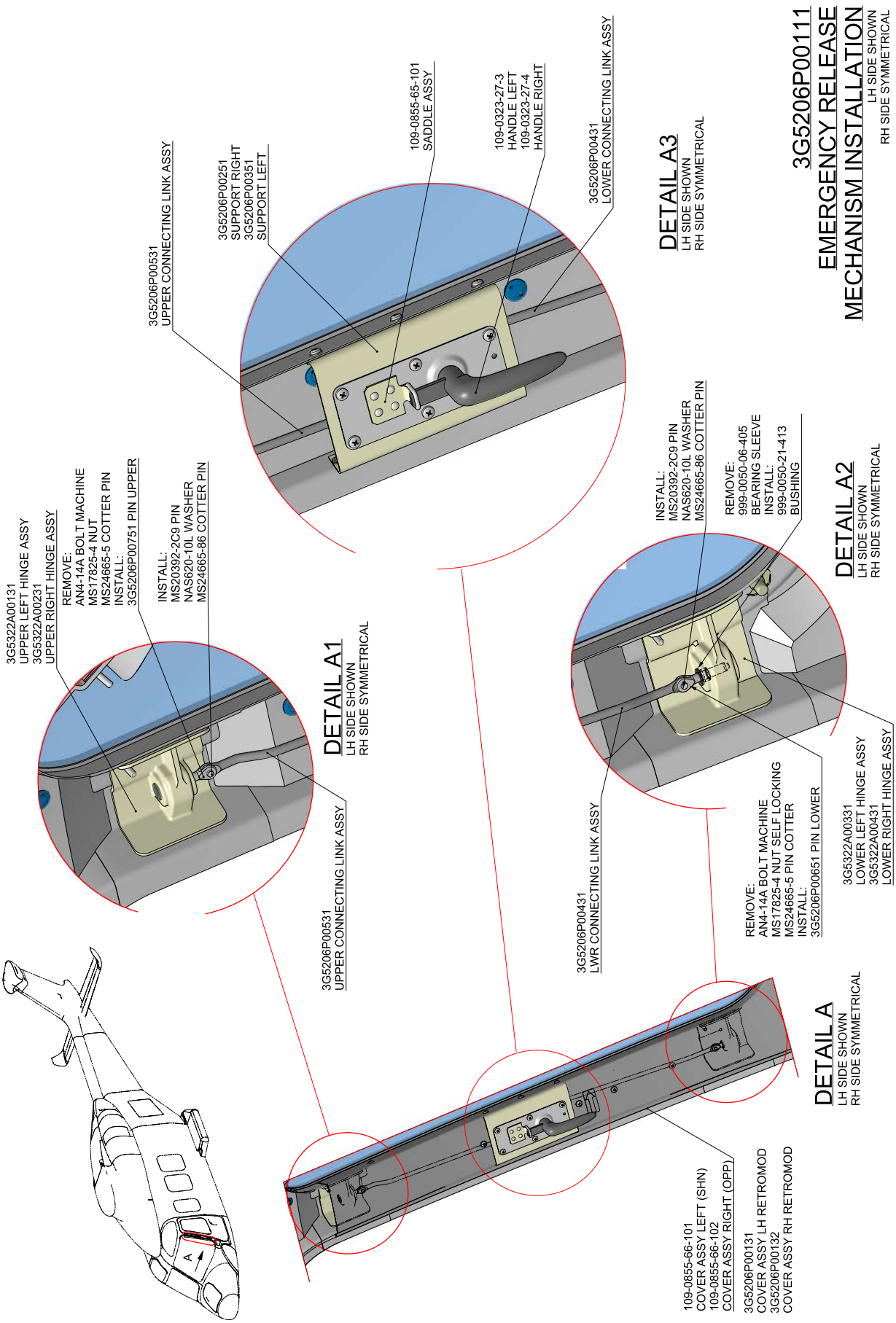

3G5206P00111
EMERGENCY RELEASE
MECHANISM INSTALLATION
LH SIDE SHOWN
RH SIDE SYMMETRICAL
3G5206P00531
UPPER CONNECTING LINK ASSY
3G5206P00251
SUPPORT RIGHT
3G5206P00351
SUPPORT LEFT
109-0855-65-101
SADDLE ASSY
109-0323-27-3
HANDLE LEFT
109-0323-27-4
HANDLE RIGHT
3G5206P00431
LOWER CONNECTING LINK ASSY
DETAIL A3
LH SIDE SHOWN
RH SIDE SYMMETRICAL
3G5322A00131
UPPER LEFT HINGE ASSY
3G5322A00231
UPPER RIGHT HINGE ASSY
REMOVE:
AN4-14A BOLT MACHINE
MS17825-4 NUT
MS24665-5 COTTER PIN
INSTALL:
3G5206P00751 PIN UPPER
INSTALL:
MS20392-2C9 PIN
NAS620-10L WASHER
MS24665-86 COTTER PIN
DETAIL A1
LH SIDE SHOWN
RH SIDE SYMMETRICAL
3G5206P00531
UPPER CONNECTING LINK ASSY
INSTALL:
MS20392-2C9 PIN
NAS620-10L WASHER
MS24665-86 COTTER PIN
REMOVE:
999-0050-06-405
BEARING SLEEVE
INSTALL:
999-0050-21-413
BUSHING
DETAIL A2
LH SIDE SHOWN
RH SIDE SYMMETRICAL
3G5206P00431
LWR CONNECTING LINK ASSY
REMOVE:
AN4-14A BOLT MACHINE
MS17825-4 NUT SELF LOCKING
MS24665-5 PIN COTTER
INSTALL:
3G5206P00651 PIN LOWER
3G5322A00331
LOWER LEFT HINGE ASSY
3G5322A00431
LOWER RIGHT HINGE ASSY
A
109-0855-66-101
COVER ASSY LEFT (SHN)
109-0855-66-102
COVER ASSY RIGHT (OPP)
3G5206P00131
COVER ASSY LH RETROMOD
3G5206P00132
COVER ASSY RH RETROMOD
DETAIL A
LH SIDE SHOWN
RH SIDE SYMMETRICAL

Figure 31

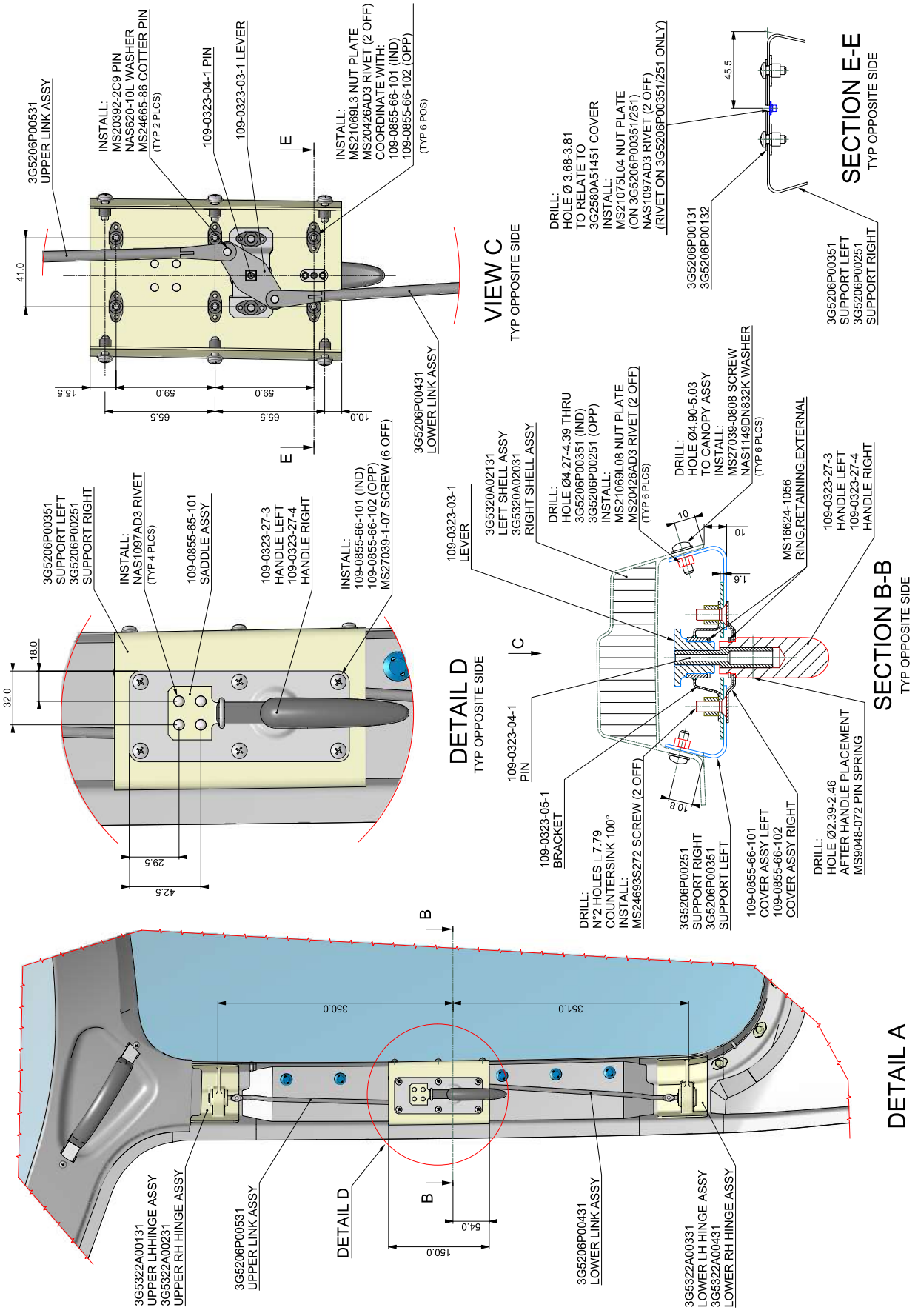

3G5206P00531
UPPER LINK ASSY
INSTALL:
MS20392-2C9 PIN
NAS620-10L WASHER
MS24665-86 COTTER PIN
(TYP 2 PLCS)
109-0323-04-1 PIN
109-0323-03-1 LEVER
INSTALL:
MS21069L3 NUT PLATE
MS20426AD3 RIVET (2 OFF)
COORDINATE WITH:
109-0855-66-101 (IND)
109-0855-66-102 (OPP)
(TYP 6 POS)
E
41.0
15.5
59.0
59.0
65.5
65.5
10.0
3G5206P00431
LOWER LINK ASSY
VIEW C
TYP OPPOSITE SIDE
DRILL:
HOLE Ø 3.68-3.81
TO RELATE TO
3G2580A51451 COVER
INSTALL:
MS21075L04 NUT PLATE
(ON 3G5206P00351/251)
NAS1097AD3 RIVET (2 OFF)
(RIVET ON 3G5206P00351/251 ONLY)
45.5
3G5206P00131
3G5206P00132
SECTION E-E
TYP OPPOSITE SIDE
3G5206P00351
SUPPORT LEFT
3G5206P00251
SUPPORT RIGHT
INSTALL:
NAS1097AD3 RIVET
(TYP 4 PLCS)
109-0855-65-101
SADDLE ASSY
109-0323-27-3
HANDLE LEFT
109-0323-27-4
HANDLE RIGHT
INSTALL:
109-0855-66-101 (IND)
109-0855-66-102 (OPP)
MS27039-1-07 SCREW (6 OFF)
18.0
32.0
29.5
42.5
109-0323-03-1
LEVER
3G5320A02131
LEFT SHELL ASSY
3G5320A02031
RIGHT SHELL ASSY
DRILL:
HOLE Ø4.27-4.39 THRU
3G5206P00351 (IND)
3G5206P00251 (OPP)
INSTALL:
MS21069L08 NUT PLATE
MS20426AD3 RIVET (2 OFF)
(TYP 6 PLCS)
DRILL:
HOLE Ø4.90-5.03
TO CANOPY ASSY
INSTALL:
MS27039-0808 SCREW
NAS1149DN832K WASHER
(TYP 6 PLCS)
MS16624-1056
RING,RETAINING,EXTERNAL
109-0323-27-3
HANDLE LEFT
109-0323-27-4
HANDLE RIGHT
DETAIL D
TYP OPPOSITE SIDE
C
10
10
1.6
10.8
109-0323-04-1
PIN
109-0323-05-1
BRACKET
DRILL:
N°2 HOLES □7.79
COUNTERSINK 100°
INSTALL:
MS24693S272 SCREW (2 OFF)
3G5206P00251
SUPPORT RIGHT
3G5206P00351
SUPPORT LEFT
109-0855-66-101
COVER ASSY LEFT
109-0855-66-102
COVER ASSY RIGHT
DRILL:
HOLE Ø2.39-2.46
AFTER HANDLE PLACEMENT
MS9048-072 PIN SPRING
SECTION B-B
TYP OPPOSITE SIDE
B
350.0
351.0
B
54.0
150.0
DETAIL D
3G5322A00131
UPPER LHHINGE ASSY
3G5322A00231
UPPER RH HINGE ASSY
3G5206P00531
UPPER LINK ASSY
3G5206P00431
LOWER LINK ASSY
3G5322A00331
LOWER LH HINGE ASSY
3G5322A00431
LOWER RH HINGE ASSY
DETAIL A

Figure 32

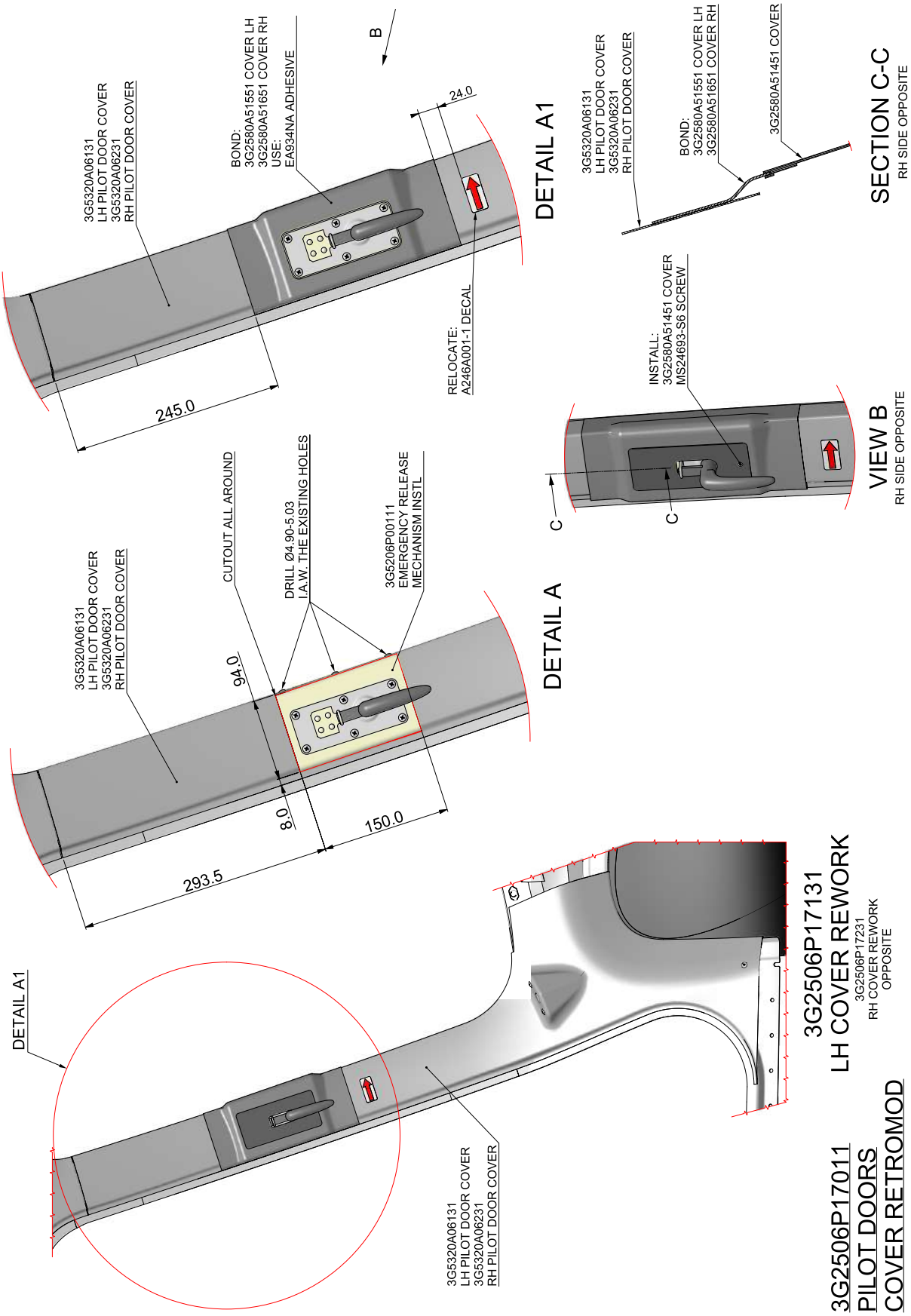

3G2506P17011
PILOT DOORS
COVER RETROMOD
3G2506P17131
LH COVER REWORK
3G2506P17231
RH COVER REWORK
OPPOSITE
DETAIL A1
3G5320A06131
LH PILOT DOOR COVER
3G5320A06231
RH PILOT DOOR COVER
DETAIL A
CUTOUT ALL AROUND
DRILL Ø4.90-5.03
I.A.W. THE EXISTING HOLES
3G5206P00111
EMERGENCY RELEASE
MECHANISM INSTL
94.0
8.0
150.0
293.5
DETAIL A1
BOND:
3G2580A51551 COVER LH
3G2580A51651 COVER RH
USE:
EA934NA ADHESIVE
B
24.0
RELOCATE:
A246A001-1 DECAL
245.0
SECTION C-C
RH SIDE OPPOSITE
3G2580A51451 COVER
VIEW B
RH SIDE OPPOSITE
INSTALL:
3G2580A51451 COVER
MS24693-S6 SCREW
C

Figure 33

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.