A340

SERVICE BULLETIN
SUMMARY

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This summary is for information only and is not approved for modification of the aircraft.

MANDATORY MANDATORY MANDATORY

ATA SYSTEM: 36

TITLE: PNEUMATIC - LEAK DETECTION - INTRODUCE INSULATION MUFFS IN S19.

****CONF ALL**

MODIFICATIONS

MODIFICATION CLASSIFICATION					
MAJOR	None				
MINOR	202216C10899	202216C10898	202216C10846		

NOTE: As per EASA IR 21, a minor change is one that has no appreciable effect on the mass, balance, structural strength, reliability, operational characteristics affecting the airworthiness of the product. All other changes are major changes.

REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

A global review of the compliance of the JAR 25.0863 and SFAR88 has highlighted potential deviations in specific cases. In particular, deviations have been found in Section 19, consequently, it has been required to introduce several flexible thermal insulation muffs in the ducting of the APU Pneumatics Distribution (Bleed) System. The goal is avoiding hot surfaces during APU Bleed operation.

Thermal Insulation Muffs will be installed on joint connections ducts and retainer rings of APU Bleed System in rear fuselage zone thru frame 95. The Muffs have a venting hole to point-leaking hot air directly towards the adjacent sensing elements of the Overheat Detection System (OHDS).

This Service Bulletin is issued to give the instructions to install Insulation Muffs and to modify the OHDS sensing element installation.

The accomplishment of this Service Bulletin will minimize the possible ignition sources.

GENERAL EVALUATION

EVALUATION TABLE			
COMPLIANCE	MANDATORY (1)	CANCELS INSPECTION SB	NO
POTENTIAL AD	YES	A/C OPERATION AFFECTED	NO
RELIABILITY AFFECTED	NO	PAX COMFORT AFFECTED	NO
COST SAVING	NO	LROPS AFFECTED	NO

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EVALUATION TABLE			
STRUCTURAL LIFE EXTN	NO	VENDOR SB INVOLVED	NO

NOTE (1): Service Bulletin must be accomplished.

MATERIAL PRICE INFORMATION

****CONF 001**

MATERIAL PRICE INFORMATION TABLE			
MATERIAL SET	**QTY PER A/C**	**PRICE PER A/C (USD)**	**MAIN PARTS**
Kit 364035D01R01	1	3,060.00	Sleeves
Kit 364035D04R00	1	1,880.00	Sensing element, sleeves. spacer, cable ties, clamps and attaching parts
TOTAL		**4,940.00**	

****CONF 002**

MATERIAL PRICE INFORMATION TABLE			
MATERIAL SET	**QTY PER A/C**	**PRICE PER A/C (USD)**	**MAIN PARTS**
Kit 364035D03R00	1	3,700.00	Sleeves
Kit 364035D05R00	1	33.00	Sleeves and screw
TOTAL		**3,733.00**	

****CONF 003**

MATERIAL PRICE INFORMATION TABLE			
MATERIAL SET	**QTY PER A/C**	**PRICE PER A/C (USD)**	**MAIN PARTS**
Kit 364035D02R00	1	3,440.00	Sleeves
Kit 364035D05R00	1	33.00	Sleeves and screw
TOTAL		**3,473.00**	

****CONF 004**

MATERIAL PRICE INFORMATION TABLE			
MATERIAL SET	**QTY PER A/C**	**PRICE PER A/C (USD)**	**MAIN PARTS**
Kit 364035D01R01	1	3,060.00	Sleeves
Kit 364035D04R00	1	1,880.00	Sensing element, sleeves. spacer, cable ties, clamps and attaching parts
TOTAL		**4,940.00**	

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**CONF 005

MATERIAL PRICE INFORMATION TABLE			
MATERIAL SET	**QTY PER A/C**	**PRICE PER A/C (USD)**	**MAIN PARTS**
Kit 364035D03R00	1	3,700.00	Sleeves
Kit 364035D05R00	1	33.00	Sleeves and screw
TOTAL		**3,733.00**	

EFFECTIVITY

**CONF ALL

This Service Bulletin is applicable to this (these) operator(s) :

47W	56W	83V	AAW	AFR	AIB	ALK	ARG	CAL	CCA	CES	CPA	DGA
DLH	FIN	GAF	GFA	HFY	IBE	IRC	KAC	KNE	LAN	M3R	MAU	MDG
MSR	NMB	PAL	QAF	RJA	S3R	SAA	SAS	SFB	SLM	SWR	TAP	THT
THY	UAE	VCV	VIR	XAX								

NOTE: If Service Bulletin A340-36-4033 has been embodied previously on aircraft, then Service Bulletin A340-36-4035 should be disregarded.

- Service Bulletin No. A340-36-4033:

Pneumatic - Leak-Detection - Introduce adapted Dual Loop Overheat Leak Detection On APU Bleed Air Duct

CONCURRENT REQUIREMENTS

None

REFERENCES / REPERCUSSIONS

TFU	None
OEB	None
AOT	None
SIL	None
LINE MAINTENANCE AFFECTED	No
LIFE LIMIT	None
OTHER	None

NATURE OF THE WORK

AIRCRAFT	YES
EQUIPMENT	NO
HARD	NO
SOFT	NO
OBRM	NO

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MANPOWER

****CONF 001**

Task 364035-831-942-001: Modification	
TOTAL MANHOURS	14.50
ELAPSED TIME (HOURS)	14.00

****CONF 002**

Task 364035-831-942-001: Modification	
TOTAL MANHOURS	8.25
ELAPSED TIME (HOURS)	7.75

****CONF 003**

Task 364035-831-942-001: Modification	
TOTAL MANHOURS	8.25
ELAPSED TIME (HOURS)	7.75

****CONF 004**

Task 364035-831-942-001: Modification	
TOTAL MANHOURS	14.50
ELAPSED TIME (HOURS)	7.75

****CONF 005**

Task 364035-831-942-001: Modification	
TOTAL MANHOURS	8.25
ELAPSED TIME (HOURS)	7.75

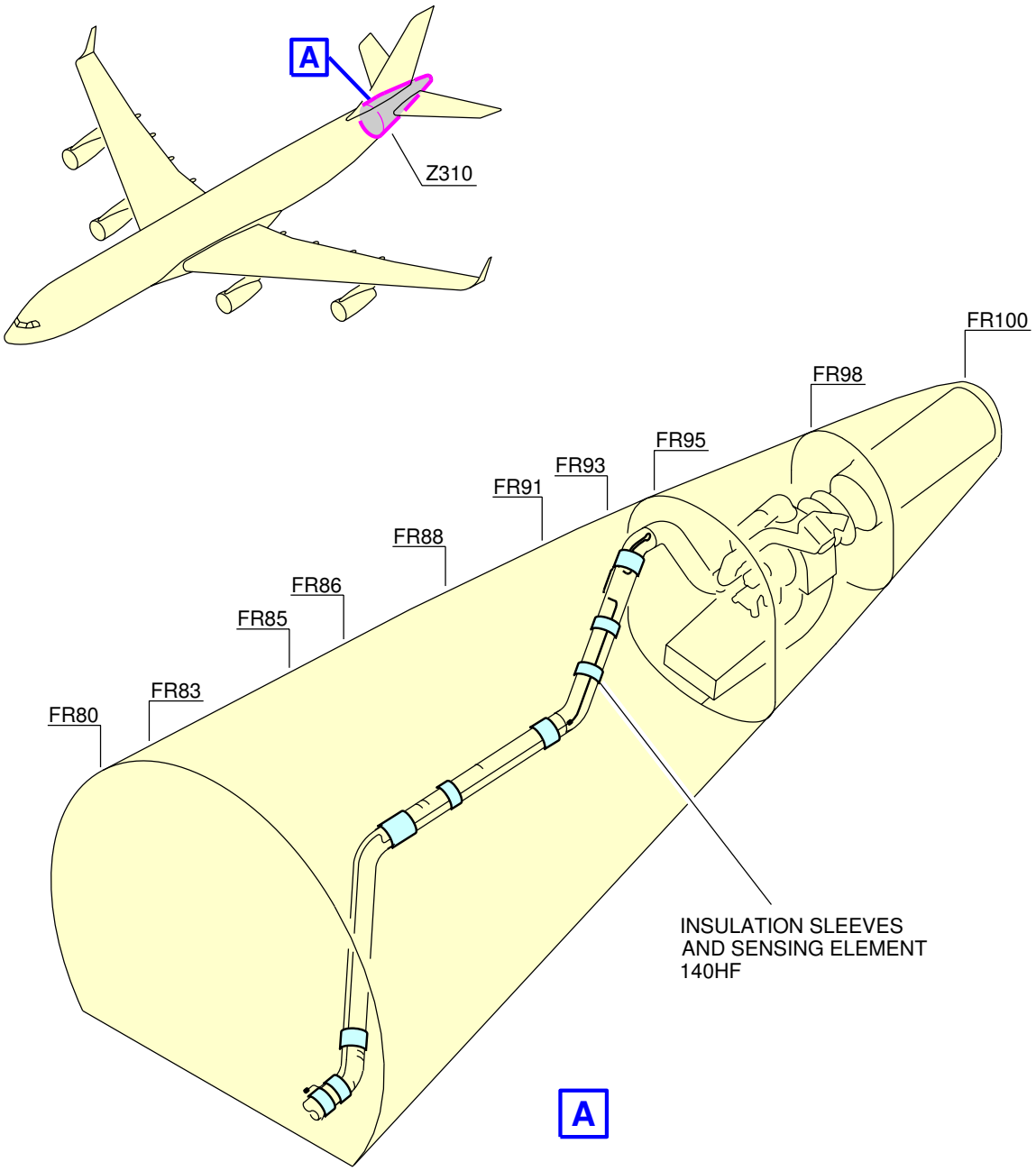
APPENDICES

****CONF ALL**

Appendix 01: Elapsed Time Assumptions

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**CONF 001, 004

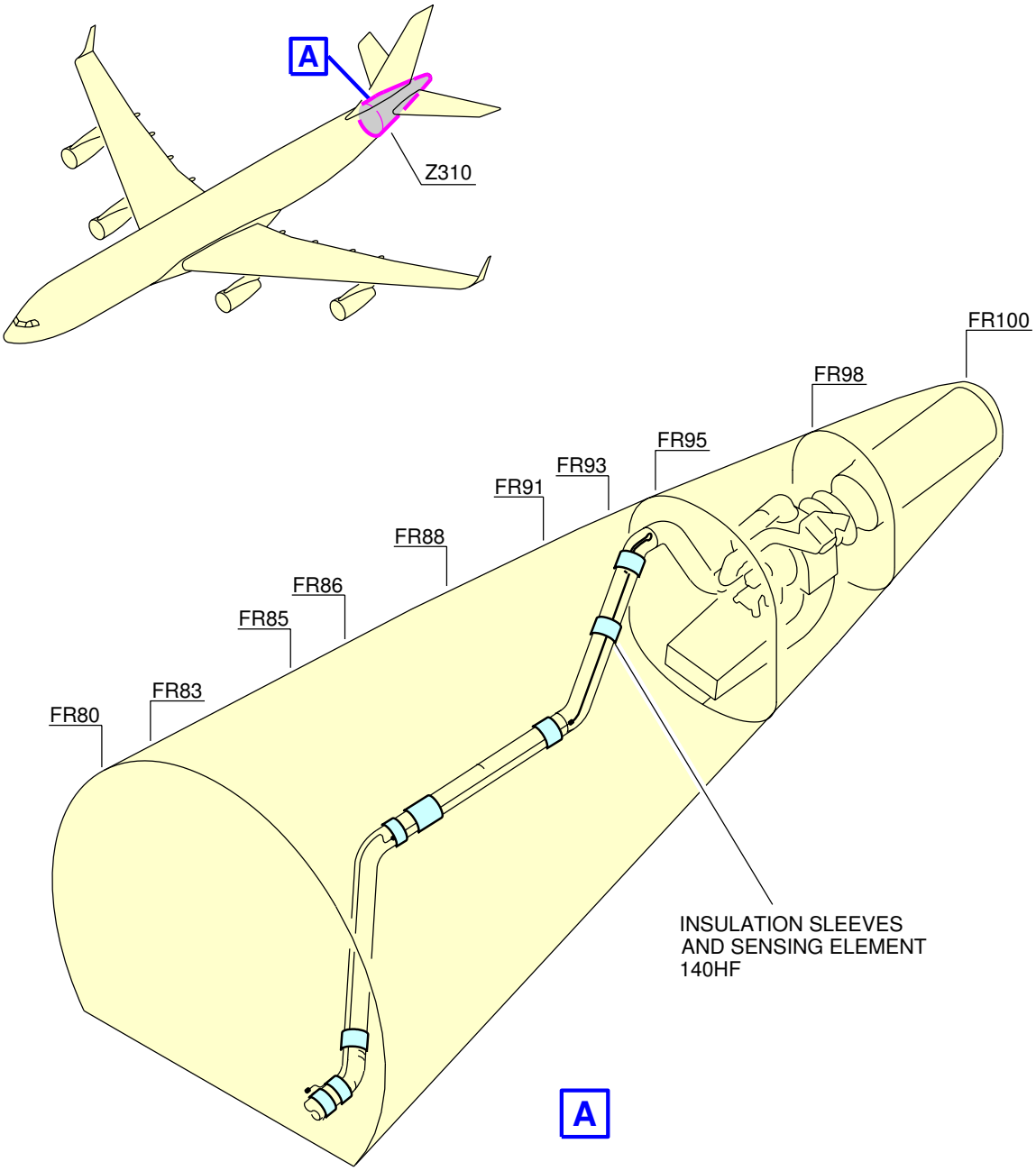


F_SB_364035_6_SAAA_01_01

Figure A-GSAAA - Sheet 01

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****CONF 002 thru 003, 005**



F_SB_364035_6_SAAB_01_01

Figure A-GSAAB - Sheet 01

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MANDATORY MANDATORY MANDATORY

ATA SYSTEM: 36

TITLE: PNEUMATIC - LEAK DETECTION - INTRODUCE INSULATION MUFFS IN S19.

MODIFICATION No.: 202216C10899 202216C10898 202216C10846

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1. PLANNING INFORMATION

****CONF ALL**

A. EFFECTIVITY

This modification is applicable by Service Bulletin only.

NOTE: If Service Bulletin A340-36-4033 has been embodied previously on aircraft, then Service Bulletin A340-36-4035 should be disregarded.

- Service Bulletin No. A340-36-4033:

Pneumatic - Leak Detection - Introduce Adapted Dual Loop Overheat Leak Detection On APU Bleed Air Duct

(1) Models

340-211 340-212 340-213 340-311 340-312 340-313

(2) Effectivity by MSN

0002-0006 0009 0011 0013-0015 0018-0029 0031-0035 0038 0041 0043-0044
0046-0049 0051-0053 0056-0058 0061 0063 0074-0076 0078-0081 0084-0085
0088-0091 0093-0094 0101 0104 0114-0115 0117 0123 0125-0126 0128-0129 0131
0133-0137 0139 0141-0142 0145-0147 0149-0152 0154 0156-0161 0163-0164
0166-0170 0173-0176 0178-0180 0182 0185-0187 0190 0192-0194 0196-0197 0199

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0201-0202 0204 0207-0208 0210 0212-0218 0220-0221 0225 0227-0228 0233 0235-0237 0239 0242-0243 0245-0246 0252 0257 0260 0263-0264 0268 0270 0273-0274 0278 0280 0282 0292 0297 0302 0304 0307 0310 0318-0319 0321 0325 0327 0329 0331-0332 0335 0347 0352 0354-0355 0359 0363 0367 0373-0374 0377-0379 0381 0385 0387 0390 0395 0399 0402 0406 0411 0413-0415 0424 0429-0430 0433-0435 0438 0442 0446-0447 0450 0459 0467 0470 0474 0483 0528 0538 0541 0544-0546 0554 0556 0559 0561-0562 0582 0585 0590 0598 0643 0646 0651 0668

(3) Effectivity by Operator

The Operator/MSN relationship is provided for information only and is correct at the time of issue in accordance with the information available to AIRBUS. Any future changes resulting from transfer of an aircraft from one operator to another will not be reflected in this list unless the Service Bulletin is revised for another reason.

OPERATOR	MSN
47W	0009
56W	0003 0011 0013 0015 0018 0019 0021
83V	0235 0239 0280 0292
AAW	0151
AFR	0029 0078 0084 0186 0207 0237 0245 0246 0260 0307 0310 0377 0399
AIB	0332
ALK	0032 0033 0034 0367 0374 0381
ARG	0048 0063 0074 0080 0085 0093 0094 0123 0126 0128 0373
CAL	0402 0406 0411 0415 0433 0541
CCA	0192 0199 0201 0242 0243 0264
CES	0129 0131 0141 0161 0182
CPA	0136 0137 0142 0147 0157 0160 0208 0218 0220 0227 0228
DGA	0075 0081
DLH	0020 0024 0027 0028 0035 0052 0053 0056 0135 0158 0213 0233 0252 0297 0304 0321 0325 0327 0335 0347 0352 0354 0379 0390 0434 0447
FIN	0058 0168 0174
GAF	0274 0355
GFA	0212 0215 0282 0554
HFY	0117 0133
IBE	0005 0088 0125 0134 0145 0146 0170 0193 0217 0221 0302 0318 0329 0387 0414 0459 0474 0483
IRC	0002
KAC	0089 0090 0101 0104
KNE	0004
LAN	0167 0359 0363 0429 0442
M3R	0061
MAU	0076 0152 0194 0268
MDG	0210 0319
MSR	0156 0159 0178
NMB	0047 0051

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OPERATOR	MSN
PAL	0173 0176 0187 0196
QAF	0026 0528
RJA	0014 0022 0038 0043
S3R	0204
SAA	0006 0197 0378 0544 0582 0590 0643 0646 0651
SAS	0413 0424 0430 0435 0450 0467 0470
SFB	0046
SLM	0049
SWR	0150 0154 0169 0175 0179 0263 0538 0545 0546 0556 0559 0561 0562 0585 0598
TAP	0041 0044 0079 0091
THT	0385 0395 0438 0446 0668
THY	0023 0025 0057 0115 0180 0216 0257 0270 0331
UAE	0139 0149 0163 0166 0185 0190 0202 0236
VCV	0031
VIR	0114 0164 0214 0225
XAX	0273 0278

(4) Configuration by MSN

MSN	CONFIGURATION
0002 0003 0005 0013 0015 0020 0023 0024 0025 0027 0028 0029 0032 0033 0034 0035 0041 0044 0047 0048 0049 0051 0052 0053 0056 0057 0058 0076 0078 0079 0084 0088 0089 0090 0091 0093 0094 0101 0104 0114 0115 0117 0123 0125 0126 0128 0129 0131 0133 0134 0135 0136 0137 0139 0141 0142 0145 0146 0147 0149 0150 0152 0154 0157 0158 0160 0161 0163 0164 0166 0167 0168 0169 0170 0173 0174 0175 0176 0179 0180 0182 0185 0186 0187 0190 0192 0193 0194	001
0004 0006 0009 0011 0014 0018 0019 0021 0022 0026 0031 0038 0043 0046 0061 0063 0074 0075 0080 0081 0085 0151 0156 0159 0178	004
0196 0197 0199 0201 0202 0207 0208 0210 0212 0213 0214 0215 0216 0217 0218 0220 0221 0225 0227 0228 0233 0235 0236 0237 0239 0242 0243 0245 0246 0252 0257 0260 0263 0264 0268 0270 0273 0274 0278 0280 0282 0292 0297 0302 0304 0307 0310 0318 0319 0321 0325 0327 0329 0331 0332 0335 0347 0352 0354 0355 0359 0363 0367 0373 0374 0377 0378 0379 0381 0385 0387 0390 0395 0399 0402 0406 0411 0413 0414 0415 0424 0429 0430 0433 0434 0435 0438 0442 0446 0447 0450 0459 0467 0470 0474 0483 0528 0538 0541 0545 0546 0554 0556 0559 0561 0562	002
0204	005
0544 0582 0585 0590 0598 0643 0646 0651 0668	003

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(5) Configuration definition

**CONF 001
Config. 001 is valid for A340-300 aircraft given in the effectivity of this Service Bulletin on which:
- Modification No. 44579D40539 is not embodied
- Modification No. 48980D42587 is not embodied
- Modification No. 40018D16554 is embodied

**CONF 002
Config. 002 is valid for A340-300 aircraft given in the effectivity of this Service Bulletin on which:
- Modification No. 44579D40539 is embodied
- Modification No. 48980D42587 is not embodied
- Modification No. 40018D16554 is embodied

**CONF 003
Config. 003 is valid for A340-300 aircraft given in the effectivity of this Service Bulletin on which:
- Modification No. 44579D40539 is embodied
- Modification No. 48980D42587 is embodied
- Modification No. 40018D16554 is embodied

**CONF 004
Config. 004 is valid for A340-200 aircraft given in the effectivity of this Service Bulletin on which:
- Modification No. 44579D40539 is not embodied
- Modification No. 48980D42587 is not embodied
- Modification No. 40018D16554 is embodied

**CONF 005
Config. 005 is valid for A340-200 aircraft given in the effectivity of this Service Bulletin on which:
- Modification No. 44579D40539 is embodied
- Modification No. 48980D42587 is not embodied
- Modification No. 40018D16554 is embodied

(6) Material Effectivity

****CONF 001**

MATERIAL	QTY PER A/C	SEE NOTES
Kit 364035D01R01	1	
Kit 364035D04R00	1	
Consumable CMLD01	1	

****CONF 002**

MATERIAL	QTY PER A/C	SEE NOTES
Kit 364035D03R00	1	
Kit 364035D05R00	1	
Consumable CMLD01	1	

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**CONF 003

MATERIAL	QTY PER A/C	SEE NOTES
Kit 364035D02R00	1	
Kit 364035D05R00	1	
Consumable CMLD01	1	

**CONF 004

MATERIAL	QTY PER A/C	SEE NOTES
Kit 364035D01R01	1	
Kit 364035D04R00	1	
Consumable CMLD01	1	

**CONF 005

MATERIAL	QTY PER A/C	SEE NOTES
Kit 364035D03R00	1	
Kit 364035D05R00	1	
Consumable CMLD01	1	

**CONF ALL

B. CONCURRENT REQUIREMENTS

None

C. REASON

(1) History

A global review of the compliance of the JAR 25.0863 and SFAR88 has highlighted potential deviations in specific cases. In particular, deviations have been found in Section 19, consequently, it has been required to introduce several flexible thermal insulation muffs in the ducting of the APU Pneumatics Distribution (Bleed) System. The goal is avoiding hot surfaces during APU Bleed operation.

(2) Objective/Action

Thermal Insulation Muffs will be installed on joint connections ducts and retainer rings of APU Bleed System in rear fuselage zone thru frame 95. The Muffs have a venting hole to point-leaking hot air directly towards the adjacent sensing elements of the Overheat Detection System (OHDS).

This Service Bulletin is issued to give the instructions to install Insulation Muffs and to modify the OHDS sensing element installation.

(3) Advantages

The accomplishment of this Service Bulletin will minimize the possible ignition sources.

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(4) Operational/Maintenance Consequences

None

D. DESCRIPTION

To accomplish this Service Bulletin it is necessary to :

****CONF 001**

Task 364035-831-942-001: Modification

(1) Remove the sensing element 140HF

(2) Install the insulation sleeves

(3) Install the new sensing element 140HF

****CONF 002**

Task 364035-831-942-001: Modification

(1) Loosen the sensing element

(2) Install the insulation sleeves

(3) Reroute the sensing element 140HF

****CONF 003**

Task 364035-831-942-001: Modification

(1) Loosen the sensing element

(2) Install the insulation sleeves

(3) Reroute the sensing element 140HF

****CONF 004**

Task 364035-831-942-001: Modification

(1) Remove the sensing element 140HF

(2) Install the insulation sleeves

(3) Install the new sensing element 140HF

****CONF 005**

Task 364035-831-942-001: Modification

(1) Loosen the sensing element

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(2) Install the insulation sleeves

(3) Reroute the sensing element 140HF

**CONF ALL

E. COMPLIANCE

(1) Classification

MANDATORY: Service Bulletin must be accomplished.

(2) Accomplishment Timescale

This Service Bulletin has been classified Mandatory. It is expected that an Airworthiness Directive (AD) published by the European Aviation Safety Agency (EASA) will be issued to confirm this classification. The accomplishment timescale, which has not yet been defined, will be given in the AD.

F. APPROVAL

The technical content of this document is approved under the authority of Design Organisation Approval No. EASA.21J.031.

If an aircraft listed in the effectivity has a modification or repair embodied that is not of AIRBUS origin, and which affects the content of this Service Bulletin, the operator is responsible for obtaining approval by its airworthiness authority for any adaptation necessary before incorporation of the Service Bulletin.

G. MANPOWER

The manpower estimates given in this Service Bulletin are based on the direct labor cost to do the work. These estimates assume that the work will be done by experienced personnel, and may need to be revised upwards to suit operator's circumstances. The estimates do not include the time to prepare, plan or inspect the work. Manufacture and procurement of parts and tools, drying times for paints, sealants, etc., and general administration work are also not included.

**CONF 001

Task 364035-831-942-001: Modification	
Get Access	0.75
On Aircraft	
Remove the sensing element 140HF	4.50
Install the insulation sleeves	1.50
Install the new sensing element 140HF	6.25
Tests	1.00
Close-Up	0.50
TOTAL MANHOURS	14.50
ELAPSED TIME (HOURS)	14.00

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****CONF 002**

Task 364035-831-942-001: Modification	
Get Access	0.75
On Aircraft	
Loosen the sensing element	2.00
Install the insulation sleeves	2.25
Reroute the sensing element 140HF	1.75
Tests	1.00
Close-Up	0.50
TOTAL MANHOURS	8.25
ELAPSED TIME (HOURS)	7.75

****CONF 003**

Task 364035-831-942-001: Modification	
Get Access	0.75
On Aircraft	
Loosen the sensing element	2.00
Install the insulation sleeves	2.25
Reroute the sensing element 140HF	1.75
Tests	1.00
Close-Up	0.50
TOTAL MANHOURS	8.25
ELAPSED TIME (HOURS)	7.75

****CONF 004**

Task 364035-831-942-001: Modification	
Get Access	0.75
On Aircraft	
Remove the sensing element 140HF	4.50
Install the insulation sleeves	1.50
Install the new sensing element 140HF	6.25
Tests	1.00
Close-Up	0.50
TOTAL MANHOURS	14.50
ELAPSED TIME (HOURS)	7.75

****CONF 005**

Task 364035-831-942-001: Modification	
Get Access	0.75
On Aircraft	
Loosen the sensing element	2.00
Install the insulation sleeves	2.25
Reroute the sensing element 140HF	1.75

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Task 364035-831-942-001: Modification	
Tests	1.00
Close-Up	0.50
TOTAL MANHOURS	8.25
ELAPSED TIME (HOURS)	7.75

**CONF ALL

H. WEIGHT AND BALANCE

**CONF 001

The weight and balance estimates given in this Service Bulletin are based on the Manufacturer's Empty Weight (MEW) and do not include operator item's. For the definition of MEW and operator's items, refer to Weight and Balance Manual (WBM) Chapter 1-00-07.

Manufacturers Empty Weight	+1.721 KG	(+3.7941 LB)
Effect on Balance	+109.190 KGM	(+789.771 LB.FT)

**CONF 002

The weight and balance estimates given in this Service Bulletin are based on the Manufacturer's Empty Weight (MEW) and do not include operator item's. For the definition of MEW and operator's items, refer to Weight and Balance Manual (WBM) Chapter 1-00-07.

Manufacturers Empty Weight	+1.559 KG	(+3.4369 LB)
Effect on Balance	+98.798 KGM	(+714.605 LB.FT)

**CONF 003

The weight and balance estimates given in this Service Bulletin are based on the Manufacturer's Empty Weight (MEW) and do not include operator item's. For the definition of MEW and operator's items, refer to Weight and Balance Manual (WBM) Chapter 1-00-07.

Manufacturers Empty Weight	+1.503 KG	(+3.3135 LB)
Effect on Balance	+95.258 KGM	(+689.001 LB.FT)

**CONF 004

The weight and balance estimates given in this Service Bulletin are based on the Manufacturer's Empty Weight (MEW) and do not include operator item's. For the definition of MEW and operator's items, refer to Weight and Balance Manual (WBM) Chapter 1-00-07.

Manufacturers Empty Weight	+1.721 KG	(+3.7941 LB)
Effect on Balance	+101.845 KGM	(+736.644 LB.FT)

**CONF 005

The weight and balance estimates given in this Service Bulletin are based on the Manufacturer's Empty Weight (MEW) and do not include operator item's. For the definition of MEW and operator's items, refer to Weight and Balance Manual (WBM) Chapter 1-00-07.

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Manufacturers Empty Weight	+1.559 KG	(+3.4369 LB)
Effect on Balance	+92.942 KGM	(+672.249 LB.FT)

**CONF ALL

I. ELECTRICAL LOAD DATA

Not Changed

J. REFERENCES

**CONF 001

Aircraft Maintenance Manual (AMM)	06-20-00 06-31-53 06-41-53 12-34-24 36-22-00 36-22-17 52-41-00
Consumable Material List (CML)	
Elec. Std. Practices Manual (ESPM)	20-25-51 20-33-44 20-55-00
Process and Material Specification (PMS)	Process and Material Specification (PMS) 01-05-01
Standards Manual (SM)	
Weight and Balance Manual (WBM)	Weight and Balance Manual (WBM) Chapter 1-00-07

**CONF 002

Aircraft Maintenance Manual (AMM)	06-20-00 06-31-53 06-41-53 12-34-24 36-22-00 36-22-17 52-41-00
Consumable Material List (CML)	
Elec. Std. Practices Manual (ESPM)	20-25-51 20-33-44 20-55-00
Standards Manual (SM)	
Weight and Balance Manual (WBM)	Weight and Balance Manual (WBM) Chapter 1-00-07

**CONF 003

Aircraft Maintenance Manual (AMM)	06-20-00 06-31-53 06-41-53 12-34-24 36-22-00 36-22-17 52-41-00
Consumable Material List (CML)	
Elec. Std. Practices Manual (ESPM)	20-25-51 20-33-44 20-55-00
Standards Manual (SM)	
Weight and Balance Manual (WBM)	Weight and Balance Manual (WBM) Chapter 1-00-07

**CONF 004

Aircraft Maintenance Manual (AMM)	06-20-00 06-31-53 06-41-53 12-34-24 36-22-00 36-22-17 52-41-00

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Consumable Material List (CML)	
Elec. Std. Practices Manual (ESPM)	20-25-51 20-33-44 20-55-00
Process and Material Specification (PMS)	Process and Material Specification (PMS) 01-05-01
Standards Manual (SM)	
Weight and Balance Manual (WBM)	Weight and Balance Manual (WBM) Chapter 1-00-07

**CONF 005

Aircraft Maintenance Manual (AMM)	06-20-00 06-31-53 06-41-53 12-34-24 36-22-00 36-22-17 52-41-00
Consumable Material List (CML)	
Elec. Std. Practices Manual (ESPM)	20-25-51 20-33-44 20-55-00
Standards Manual (SM)	
Weight and Balance Manual (WBM)	Weight and Balance Manual (WBM) Chapter 1-00-07

**CONF ALL

K. PUBLICATION AFFECTED

Aircraft Maintenance Manual (AMM)	36-12-41 36-22-17
Illustrated Parts Catalog (IPC)	36-12-04 36-22-04

L. INTERCHANGEABILITY/MIXABILITY

Not Applicable

M. SPARES

None

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2. MATERIAL INFORMATION

**CONF ALL

A. MATERIAL - PRICE AND AVAILABILITY

(1) Procurement Addresses

Kit 364035D01R01 Kit 364035D02R00 Kit 364035D03R00 Kit 364035D04R00 Kit 364035D05R00	Customers with aircraft shown in the effectivity of this Service Bulletin should send a purchase order to AIRBUS. Quote the number of this Service Bulletin. The address is: AIRBUS Material, Logistics and Suppliers Weg beim Jaeger 150 D-22335 Hamburg Germany For ordering by internet: http://spares.airbus.com For ordering by fax: +49 40 50 76 2590 For ordering by E-mail: airbus.kit@airbus.com

(2) Price and Availability

Kit 364035D01R01	
Cost	3,060.00 USD
Availability	150 calendar days from receipt of order

The Kit availability given above is the standard lead time from the date of your purchase order. If you require Kits before this time, please include a retrofit planning schedule with your order so that we can try to comply with your requirements. The sales terms (costs and availability) are estimated in relation to economic conditions at the issue date of the Service Bulletin. The latest valid price and lead time for ordering purposes shall be obtained through the AirbusSpares portal or through a request for quotation to airbus.kit@airbus.com.

Kit 364035D02R00	
Cost	3,440.00 USD
Availability	150 calendar days from receipt of order

The Kit availability given above is the standard lead time from the date of your purchase order. If you require Kits before this time, please include a retrofit planning schedule with your order so that we can try to comply with your requirements. The sales terms (costs and availability) are estimated in relation to economic conditions at the issue date of the Service Bulletin. The latest valid price and lead time for ordering purposes shall be obtained through the AirbusSpares portal or through a request for quotation to airbus.kit@airbus.com.

Kit 364035D03R00	
Cost	3,700.00 USD
Availability	150 calendar days from receipt of order

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The Kit availability given above is the standard lead time from the date of your purchase order. If you require Kits before this time, please include a retrofit planning schedule with your order so that we can try to comply with your requirements. The sales terms (costs and availability) are estimated in relation to economic conditions at the issue date of the Service Bulletin. The latest valid price and lead time for ordering purposes shall be obtained through the AirbusSpares portal or through a request for quotation to airbus.kit@airbus.com.

Kit 364035D04R00	
Cost	1,880.00 USD
Availability	90 calendar days from receipt of order

The Kit availability given above is the standard lead time from the date of your purchase order. If you require Kits before this time, please include a retrofit planning schedule with your order so that we can try to comply with your requirements. The sales terms (costs and availability) are estimated in relation to economic conditions at the issue date of the Service Bulletin. The latest valid price and lead time for ordering purposes shall be obtained through the AirbusSpares portal or through a request for quotation to airbus.kit@airbus.com.

Kit 364035D05R00	
Cost	33.00 USD
Availability	90 calendar days from receipt of order

The Kit availability given above is the standard lead time from the date of your purchase order. If you require Kits before this time, please include a retrofit planning schedule with your order so that we can try to comply with your requirements. The sales terms (costs and availability) are estimated in relation to economic conditions at the issue date of the Service Bulletin. The latest valid price and lead time for ordering purposes shall be obtained through the AirbusSpares portal or through a request for quotation to airbus.kit@airbus.com.

B. INDUSTRY SUPPORT INFORMATION

AIRBUS will not provide industry support for accomplishment of this Service Bulletin.

C. LIST OF COMPONENTS

Kit 364035D01R01

ITEM	NEW PART N°	QTY (UM)	KEYWORD	ITEM	OLD PART N°	INT	SEE NOTES
1	F3617062400000	1	SLEEVE				
2	F3617062400200	1	SLEEVE				
3	F3617062400400	1	SLEEVE				
4	F3617062400600	1	SLEEVE				
5	F3617062400800	1	SLEEVE				
6	F3617062401000	1	SLEEVE				
7	F3617062401800	1	SLEEVE				
8	F3617062405200	1	SLEEVE				
9	F3617062404200	1	SLEEVE				

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ITEM	NEW PART N°	QTY (UM)	KEYWORD	ITEM	OLD PART N°	INT	SEE NOTES
17	NSA5539S	1	SLEEVE				

NOTE: If you find part numbers of hardware components in the related kit(s) which you cannot identify in the LIST OF COMPONENTS of this Service Bulletin, refer to Standards Manual (SM). The SM will give you the correct part number to part number relationship.

Kit 364035D02R00

ITEM	NEW PART N°	QTY (UM)	KEYWORD	ITEM	OLD PART N°	INT	SEE NOTES
1	F3617062400000	1	SLEEVE				
2	F3617062400200	1	SLEEVE				
9	F3617062404200	1	SLEEVE				
12	F3617062405000	1	SLEEVE				
13	F3617062401600	1	SLEEVE				
14	F3617062403800	1	SLEEVE				
15	F3617062404800	1	SLEEVE				
16	F3617062404400	1	SLEEVE				
17	NSA5539S	3	SLEEVE				

NOTE: If you find part numbers of hardware components in the related kit(s) which you cannot identify in the LIST OF COMPONENTS of this Service Bulletin, refer to Standards Manual (SM). The SM will give you the correct part number to part number relationship.

Kit 364035D03R00

ITEM	NEW PART N°	QTY (UM)	KEYWORD	ITEM	OLD PART N°	INT	SEE NOTES
9	F3617062404200	1	SLEEVE				
10	F3617062404600	1	SLEEVE				
11	F3617062402200	1	SLEEVE				
12	F3617062405000	1	SLEEVE				
13	F3617062401600	1	SLEEVE				
14	F3617062403800	1	SLEEVE				
15	F3617062404800	1	SLEEVE				
16	F3617062404400	1	SLEEVE				
17	NSA5539S	4	SLEEVE				

NOTE: If you find part numbers of hardware components in the related kit(s) which you cannot identify in the LIST OF COMPONENTS of this Service Bulletin, refer to Standards Manual (SM). The SM will give you the correct part number to part number relationship.

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Kit 364035D04R00

ITEM	NEW PART N°	QTY (UM)	KEYWORD	ITEM	OLD PART N°	INT	SEE NOTES
17	NSA5539S	22	SLEEVE				
18	35660-2-310	1	ELEMENT				
19	NSA935401-04	1	TIE				
27	NSA5110-3-1	2	NUT				
29	NAS1801-3-5	2	SCREW				
31	NAS1149D0332K	3	WASHER				
32	NSA5538-00	4	CLAMP				
33	NSA5527-03-13	1	SPACER				
34	NAS1801-3-28	1	SCREW				
35	NAS1801-3-13	1	SCREW				
36	NSA5527-03-08D	1	SPACER				

NOTE: If you find part numbers of hardware components in the related kit(s) which you cannot identify in the LIST OF COMPONENTS of this Service Bulletin, refer to Standards Manual (SM). The SM will give you the correct part number to part number relationship.

Kit 364035D05R00

ITEM	NEW PART N°	QTY (UM)	KEYWORD	ITEM	OLD PART N°	INT	SEE NOTES
17	NSA5539S	5	SLEEVE				
35	NAS1801-3-13	1	SCREW				

NOTE: If you find part numbers of hardware components in the related kit(s) which you cannot identify in the LIST OF COMPONENTS of this Service Bulletin, refer to Standards Manual (SM). The SM will give you the correct part number to part number relationship.

D. LIST OF MATERIALS - OPERATOR SUPPLIED

(1) Consumable Materials

Consumable CMLD01

ITEM	DESCRIPTION	REFERENCE TO CML MAT. No.	QTY PER A/C	SEE NOTES
	Solvent General Purpose	11-026	As required	
	Lint-Free Cotton Cloth	19-003	As required	
	Lockwire Stainless Steel or Nickel Alloy	19-018	As required	

(2) Components

None

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(3) Equipment

None

E. PARTS TO BE RE-IDENTIFIED BY OPERATOR

None

F. TOOLING

None

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3. ACCOMPLISHMENT INSTRUCTIONS

Task 364035-831-942-001 - Modification

WARNING: MAKE SURE THAT YOU OBEY ALL THE WARNINGS AND ALL THE CAUTIONS INCLUDED IN THE REFERENCED PROCEDURES.

CAUTION: ALWAYS OBEY THE PRECAUTIONS THAT FOLLOW TO KEEP ELECTRICAL WIRING IN A SATISFACTORY CONDITION (ELECTRICALLY AND MECHANICALLY SERVICEABLE). WHEN YOU DO MAINTENANCE WORK, REPAIRS OR MODIFICATIONS, ALWAYS KEEP ELECTRICAL WIRING, COMPONENTS AND THE WORK AREA AS CLEAN AS POSSIBLE. TO DO THIS:

- PUT PROTECTION, SUCH AS PLASTIC SHEETING, CLOTHS, ETC; AS NECESSARY ON WIRING AND COMPONENTS.
- REGULARLY REMOVE ALL SHAVINGS, UNWANTED MATERIAL AND OTHER CONTAMINATION.

THESE PRECAUTIONS WILL DECREASE THE RISK OF CONTAMINATION AND DAMAGE TO THE ELECTRICAL WIRING INSTALLATION.

IN CASE OF CONTAMINATION REFER TO ESPM 20-55-00.

Task Associated Data

****CONF 001**

Zone	
210 310	
Modified FIN	
313AL 312AR 34HF 139HF 140HF	
Access	
Door	312AR 313AL
Manpower	
TOTAL MANHOURS	14.50
ELAPSED TIME (HOURS)	14.00

****CONF 002**

Zone	
210 310	
Modified FIN	
313AL 312AR 140HF	
Access	
Door	312AR 313AL
Manpower	
TOTAL MANHOURS	8.25
ELAPSED TIME (HOURS)	7.75

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**CONF 003

Zone	
210 310	
Modified FIN	
313AL 312AR 140HF	
Access	
Door	312AR 313AL
Manpower	
TOTAL MANHOURS	8.25
ELAPSED TIME (HOURS)	7.75

**CONF 004

Zone	
210 310	
Modified FIN	
313AL 312AR 34HF 139HF 140HF	
Access	
Door	312AR 313AL
Manpower	
TOTAL MANHOURS	14.50
ELAPSED TIME (HOURS)	7.75

**CONF 005

Zone	
210 310	
Modified FIN	
313AL 312AR 140HF	
Access	
Door	312AR 313AL
Manpower	
TOTAL MANHOURS	8.25
ELAPSED TIME (HOURS)	7.75

**CONF ALL

A. GENERAL

**CONF 001

(1) Subtask 364035-910-201-001 - Standard Practices

Manpower Resources	
Skills	NON SPECIFIC

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References	
Aircraft Maintenance Manual (AMM)	06-20-00, Page Block 001 06-31-53, Page Block 001 06-41-53, Page Block 001
Consumable Material List (CML)	
Elec. Std. Practices Manual (ESPM)	20-25-51 20-33-44
Fig. A-GBEAA Tolerances for Waviness and Bends in Sensing Elements	Sheet 01 Sheet 02

(a) For the specification of the materials (Mat. No.) given in this Service Bulletin (Refer to Consumable Material List (CML)).

(b) For the identification of zones (Refer to AMM 06-20-00, Page Block 001).

(c) For the Frames (FR) identification (Refer to AMM 06-31-53, Page Block 001).

(d) For the identification of the access panels (Refer to AMM 06-41-53, Page Block 001).

(e) For the cable tie application and tooling (Refer to ESPM 20-33-44 and ESPM 20-25-51).

(f) For tolerances for waviness and bends in sensing element wire (Refer to Fig. A-GBEAA).

(g) Tag all the parts you must remove and retain to make the subsequent installation easier.

(h) Put blanking plugs on the disconnected line ends.

(2) Subtask 364035-839-201-001 - Administrative

Manpower Resources	
Skills	NON SPECIFIC

Write in the applicable aircraft records that you have done all the work given in this Service Bulletin.

****CONF 002**

(1) Subtask 364035-910-201-001 - Standard Practices

Manpower Resources	
Skills	NON SPECIFIC

References	
Aircraft Maintenance Manual (AMM)	06-20-00, Page Block 001 06-31-53, Page Block 001 06-41-53, Page Block 001
Consumable Material List (CML)	

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References	
Elec. Std. Practices Manual (ESPM)	20-25-51 20-33-44
Fig. A-GBEAA Tolerances for Waviness and Bends in Sensing Elements	Sheet 01 Sheet 02

(a) For the specification of the materials (Mat. No.) given in this Service Bulletin (Refer to Consumable Material List (CML)).

(b) For the identification of zones (Refer to AMM 06-20-00, Page Block 001).

(c) For the Frames (FR) identification (Refer to AMM 06-31-53, Page Block 001).

(d) For the identification of the access panels (Refer to AMM 06-41-53, Page Block 001).

(e) For the cable tie application and tooling (Refer to ESPM 20-33-44 and ESPM 20-25-51).

(f) For tolerances for waviness and bends in sensing element wire (Refer to Fig. A-GBEAA).

(g) Tag all the parts you must remove and retain to make the subsequent installation easier.

(h) Put blanking plugs on the disconnected line ends.

(2) Subtask 364035-839-201-001 - Administrative

Manpower Resources	
Skills	NON SPECIFIC

Write in the applicable aircraft records that you have done all the work given in this Service Bulletin.

****CONF 003**

(1) Subtask 364035-910-201-001 - Standard Practices

Manpower Resources	
Skills	NON SPECIFIC

References	
Aircraft Maintenance Manual (AMM)	06-20-00, Page Block 001 06-31-53, Page Block 001 06-41-53, Page Block 001
Consumable Material List (CML)	
Elec. Std. Practices Manual (ESPM)	20-25-51 20-33-44

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References	
Fig. A-GBEAA Tolerances for Waviness and Bends in Sensing Elements	Sheet 01 Sheet 02

(a) For the specification of the materials (Mat. No.) given in this Service Bulletin (Refer to Consumable Material List (CML)).

(b) For the identification of zones (Refer to AMM 06-20-00, Page Block 001).

(c) For the Frames (FR) identification (Refer to AMM 06-31-53, Page Block 001).

(d) For the identification of the access panels (Refer to AMM 06-41-53, Page Block 001).

(e) For the cable tie application and tooling (Refer to ESPM 20-33-44 and ESPM 20-25-51).

(f) For tolerances for waviness and bends in sensing element wire (Refer to Fig. A-GBEAA).

(g) Tag all the parts you must remove and retain to make the subsequent installation easier.

(h) Put blanking plugs on the disconnected line ends.

(2) Subtask 364035-839-201-001 - Administrative

Manpower Resources	
Skills	NON SPECIFIC

Write in the applicable aircraft records that you have done all the work given in this Service Bulletin.

****CONF 004**

(1) Subtask 364035-910-201-001 - Standard Practices

Manpower Resources	
Skills	NON SPECIFIC

References	
Aircraft Maintenance Manual (AMM)	06-20-00, Page Block 001 06-31-53, Page Block 001 06-41-53, Page Block 001
Consumable Material List (CML)	
Elec. Std. Practices Manual (ESPM)	20-25-51 20-33-44
Fig. A-GBEAA Tolerances for Waviness and Bends in Sensing Elements	Sheet 01 Sheet 02

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(a) For the specification of the materials (Mat. No.) given in this Service Bulletin (Refer to Consumable Material List (CML)).

(b) For the identification of zones (Refer to AMM 06-20-00, Page Block 001).

(c) For the Frames (FR) identification (Refer to AMM 06-31-53, Page Block 001).

(d) For the identification of the access panels (Refer to AMM 06-41-53, Page Block 001).

(e) For the cable tie application and tooling (Refer to ESPM 20-33-44 and ESPM 20-25-51).

(f) For tolerances for waviness and bends in sensing element wire (Refer to Fig. A-GBEAA).

(g) Tag all the parts you must remove and retain to make the subsequent installation easier.

(h) Put blanking plugs on the disconnected line ends.

(2) Subtask 364035-839-201-001 - Administrative

Manpower Resources	
Skills	NON SPECIFIC

Write in the applicable aircraft records that you have done all the work given in this Service Bulletin.

****CONF 005**

(1) Subtask 364035-910-201-001 - Standard Practices

Manpower Resources	
Skills	NON SPECIFIC

References	
Aircraft Maintenance Manual (AMM)	06-20-00, Page Block 001 06-31-53, Page Block 001 06-41-53, Page Block 001
Consumable Material List (CML)	
Elec. Std. Practices Manual (ESPM)	20-25-51 20-33-44
Fig. A-GBEAA Tolerances for Waviness and Bends in Sensing Elements	Sheet 01 Sheet 02

(a) For the specification of the materials (Mat. No.) given in this Service Bulletin (Refer to Consumable Material List (CML)).

(b) For the identification of zones (Refer to AMM 06-20-00, Page Block 001).

(c) For the Frames (FR) identification (Refer to AMM 06-31-53, Page Block 001).

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(d) For the identification of the access panels (Refer to AMM 06-41-53, Page Block 001).

(e) For the cable tie application and tooling (Refer to ESPM 20-33-44 and ESPM 20-25-51).

(f) For tolerances for waviness and bends in sensing element wire (Refer to Fig. A-GBEAA).

(g) Tag all the parts you must remove and retain to make the subsequent installation easier.

(h) Put blanking plugs on the disconnected line ends.

(2) Subtask 364035-839-201-001 - Administrative

Manpower Resources	
Skills	NON SPECIFIC

Write in the applicable aircraft records that you have done all the work given in this Service Bulletin.

****CONF ALL**

B. PREPARATION

****CONF 001**

(1) Subtask 364035-941-201-001 - Job Set-up

Work Zones and Access Panels			
	Zone	Access/Work location	
	310	Access	Door 312AR, Door 313AL

Manpower Resources	
Skills	NON SPECIFIC

References	
Aircraft Maintenance Manual (AMM)	Task 12-34-24-860-802 52-41-00, Page Block 001

(a) Make sure that the aircraft is electrically grounded (Refer to AMM Task 12-34-24-860-802).

(b) Put access platform(s) in position below the access doors 312AR and 313AL.

(c) Open and safety the maintenance door 312AR (Refer to AMM 52-41-00, Page Block 001).

(d) Open and safety the accessory-compartment access door 313AL (Refer to AMM 52-41-00, Page Block 001).

(e) Set the light switch 4LJ in the ON position.

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**CONF 002

(1) Subtask 364035-941-201-001 - Job Set-up

Work Zones and Access Panels			
	Zone	Access/Work location	
	310	Access	Door 312AR, Door 313AL

Manpower Resources	
Skills	NON SPECIFIC

References	
Aircraft Maintenance Manual (AMM)	Task 12-34-24-860-802 52-41-00, Page Block 001

(a) Make sure that the aircraft is electrically grounded (Refer to AMM Task 12-34-24-860-802).

(b) Put access platform(s) in position below the access doors 312AR and 313AL.

(c) Open and safety the maintenance door 312AR (Refer to AMM 52-41-00, Page Block 001).

(d) Open and safety the accessory-compartment access door 313AL (Refer to AMM 52-41-00, Page Block 001).

(e) Set the light switch 4LJ in the ON position.

**CONF 003

(1) Subtask 364035-941-201-001 - Job Set-up

Work Zones and Access Panels			
	Zone	Access/Work location	
	310	Access	Door 312AR, Door 313AL

Manpower Resources	
Skills	NON SPECIFIC

References	
Aircraft Maintenance Manual (AMM)	Task 12-34-24-860-802 52-41-00, Page Block 001

(a) Make sure that the aircraft is electrically grounded (Refer to AMM Task 12-34-24-860-802).

(b) Put access platform(s) in position below the access doors 312AR and 313AL.

(c) Open and safety the maintenance door 312AR (Refer to AMM 52-41-00, Page Block 001).

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(d) Open and safety the accessory-compartment access door 313AL (Refer to AMM 52-41-00, Page Block 001).

(e) Set the light switch 4LJ in the ON position.

**CONF 004

(1) Subtask 364035-941-201-001 - Job Set-up

Work Zones and Access Panels			
	Zone	Access/Work location	
	310	Access	Door 312AR, Door 313AL

Manpower Resources	
Skills	NON SPECIFIC

References	
Aircraft Maintenance Manual (AMM)	Task 12-34-24-860-802 52-41-00, Page Block 001

(a) Make sure that the aircraft is electrically grounded (Refer to AMM Task 12-34-24-860-802).

(b) Put access platform(s) in position below the access doors 312AR and 313AL.

(c) Open and safety the maintenance door 312AR (Refer to AMM 52-41-00, Page Block 001).

(d) Open and safety the accessory-compartment access door 313AL (Refer to AMM 52-41-00, Page Block 001).

(e) Set the light switch 4LJ in the ON position.

**CONF 005

(1) Subtask 364035-941-201-001 - Job Set-up

Work Zones and Access Panels			
	Zone	Access/Work location	
	310	Access	Door 312AR, Door 313AL

Manpower Resources	
Skills	NON SPECIFIC

References	
Aircraft Maintenance Manual (AMM)	Task 12-34-24-860-802 52-41-00, Page Block 001

(a) Make sure that the aircraft is electrically grounded (Refer to AMM Task 12-34-24-860-802).

(b) Put access platform(s) in position below the access doors 312AR and 313AL.

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(c) Open and safety the maintenance door 312AR (Refer to AMM 52-41-00, Page Block 001).

(d) Open and safety the accessory-compartment access door 313AL (Refer to AMM 52-41-00, Page Block 001).

(e) Set the light switch 4LJ in the ON position.

**CONF ALL

C. PROCEDURE

**CONF 001

(1) Subtask 364035-831-201-001 - Remove the sensing element 140HF

Work Zones and Access Panels			
	Zone	Access/Work location	
	310	Access	Door 313AL, Door 312AR
		Work location	from Frame 88 to Frame 93

Manpower Resources	
Manhours	4.50
Minimum number of person	1
Subtask elapsed time	4.50
Skills	NON SPECIFIC

Material necessary to do the job

Consumable CMLD01				
ITEM	DESCRIPTION	REFERENCE TO CML MAT. No.	QTY PER A/C	SEE NOTES
	Solvent General Purpose	11-026	As required	
	Lint-Free Cotton Cloth	19-003	As required	

References	
Aircraft Maintenance Manual (AMM)	Task 36-22-17-000-802
Fig. A-GBBAA Removal of the Sensing Element 140HF from the APU Bleed-Air-Duct	Sheet 01 Sheet 02 Sheet 03 Sheet 04

(a) As a standard procedure clean the work areas if necessary, with:

Solvent General Purpose	11-026	As required
and		
Lint-Free Cotton Cloth	19-003	As required

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(b) Remove the sensing element 140HF from the APU bleed-air-duct.

Refer to Fig. A-GBBAA Sheet 01 thru Fig. A-GBBAA Sheet 04.

Refer to AMM Task 36-22-17-000-802.

1 Between Frame 88 and Frame 89, cut and discard the lockwires and disconnect the sensing element 140HF from the sensing element 139HF, refer to Fig. A-GBBAA Sheet 04, View J and AMM Task 36-22-17-000-802.

2 At Frame 93, cut and discard the lockwires and disconnect the sensing element 140HF from the connecting cable 34HF, refer to AMM Task 36-22-17-000-802.

Refer to Fig. A-GBBAA Sheet 03, View F.

Remove:

1	Nut	NSA5542-00	Item (25)	Retain

3 Between Frame 88 thru Frame 93, open the clamps:

Refer to Fig. A-GBBAA Sheet 02, View B and Fig. A-GBBAA Sheet 04, View H.

11	Clamp-single	NAS5538-00	Item (26)	Retain

and remove:

11	Sleeve-Protective	NSA5539S	Item (17)	Discard

4 At Frame 93, remove:

Refer to Fig. A-GBBAA Sheet 02, View B and Fig. A-GBBAA Sheet 04, View G.

1	Sleeve-Protective	NSA5539S	Item (17)	Discard
1	Spacer	NSA5527-03-01	Item (24)	Retain
1	Clamp-single	NAS5538-00	Item (26)	Retain
1	Screw	NAS1096-3-13	Item (30)	Discard

5 Between Frame 93 and Frame 94, remove:

Refer to Fig. A-GBBAA Sheet 02, View B and Fig. A-GBBAA Sheet 03, View E.

2	Sleeve-Protective	NSA5539S	Item (17)	Discard
1	Clamp-double	NSA5543-00	Item (23)	Discard

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1	Spacer	NSA5527-03-01	Item (24)	Retain
1	Washer	NAS1149D0332K	Item (28)	Discard
1	Screw	NAS1096-3-13	Item (30)	Discard

6 Between Frame 94 and Frame 95, remove:

Refer to Fig. A-GBBAA Sheet 02, View B and Fig. A-GBBAA Sheet 03, Views C and D.

4	Sleeve-Protective	NSA5539S	Item (17)	Discard
2	Clamp-double	NSA5543-00	Item (23)	Retain
	and			
2	Sleeve-Protective	NSA5539S	Item (17)	Discard
1	Clamp-double	NSA5543-00	Item (23)	Discard
1	Nut	NSA5110-3-1	Item (27)	Discard
1	Washer	NAS1149D0332K	Item (28)	Discard
1	Screw	NAS1096-3-5	Item (29)	Discard

7 Between Frame 88 and Frame 95, remove the sensing element 140HF:

Refer to AMM Task 36-22-17-000-802.

Refer to Fig. A-GBBAA Sheet 01, View A and Fig. A-GBBAA Sheet 02, View B.

FIN 140HF				
1	Sensing Element	35636-2-310	Item (18)	Discard

(2) Subtask 364035-831-202-001 - Install the insulation sleeves

Work Zones and Access Panels			
	Zone	Access/Work location	
	310	Access	Door 313AL, Door 312AR
		Work location	from Frame 83 to Frame 94

Manpower Resources	
Manhours	1.50
Minimum number of person	1
Subtask elapsed time	1.50
Skills	NON SPECIFIC

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Material necessary to do the job

Kit 364035D01R01				
ITEM	NEW PART N°	QTY (UM)	KEYWORD	SEE NOTES
1	F3617062400000	1	SLEEVE	
2	F3617062400200	1	SLEEVE	
3	F3617062400400	1	SLEEVE	
4	F3617062400600	1	SLEEVE	
5	F3617062400800	1	SLEEVE	
6	F3617062401000	1	SLEEVE	
7	F3617062401800	1	SLEEVE	
8	F3617062405200	1	SLEEVE	
9	F3617062404200	1	SLEEVE	

References	
Aircraft Maintenance Manual (AMM)	Task 36-22-17-000-801 Task 36-22-17-400-801
Fig. A-GBCAA Installation of the Sleeves on the APU Bleed-Air-Duct	Sheet 01 Sheet 02 Sheet 03

(a) Install the insulation sleeves on the APU bleed-air duct.

Refer to Fig. A-GBCAA Sheet 01 thru Fig. A-GBCAA Sheet 03.

1 Loosen the remaining sensing elements 139HF and 33HF between Frame 83 thru Frame 88, in preparation for the installation of the insulation sleeves, refer to AMM Task 36-22-17-000-801.

2 Between Frame 83 thru Frame 94, install the insulation sleeves on the APU bleed-air-duct:

1	Sleeve Assy	F3617062400000	Item 1
1	Sleeve Assy	F3617062400200	Item 2
1	Sleeve Assy	F3617062400400	Item 3
1	Sleeve Assy	F3617062400600	Item 4
1	Sleeve Assy	F3617062400800	Item 5
1	Sleeve Assy	F3617062401000	Item 6
1	Sleeve Assy	F3617062401800	Item 7
1	Sleeve Assy	F3617062405200	Item 8

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1 Sleeve Assy F3617062404200 Item 9

NOTE: Make sure that the sensing element goes across the blowout apertures.

NOTE: Make sure that there is no contact between the sensing element and the insulation sleeves.

3 Reinstall the sensing element between Frame 83 thru Frame 88, refer to AMM Task 36-22-17-400-801.

(3) Subtask 364035-831-203-001 - Install the new sensing element 140HF

Work Zones and Access Panels			
	Zone	Access/Work location	
	310	Access	Door 312AR, Door 313AL
		Work location	from Frame 88 to Frame 95

Manpower Resources	
Manhours	6.25
Minimum number of person	1
Subtask elapsed time	6.25
Skills	ELECTRICAL

Material necessary to do the job

Kit 364035D01R01

ITEM	NEW PART N°	QTY (UM)	KEYWORD	SEE NOTES
17	NSA5539S	1	SLEEVE	

Kit 364035D04R00

ITEM	NEW PART N°	QTY (UM)	KEYWORD	SEE NOTES
17	NSA5539S	22	SLEEVE	
18	35660-2-310	1	ELEMENT	
19	NSA935401-04	1	TIE	
27	NSA5110-3-1	2	NUT	
29	NAS1801-3-5	2	SCREW	
31	NAS1149D0332K	3	WASHER	
32	NSA5538-00	4	CLAMP	
33	NSA5527-03-13	1	SPACER	
34	NAS1801-3-28	1	SCREW	
35	NAS1801-3-13	1	SCREW	
36	NSA5527-03-08D	1	SPACER	

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Consumable CMLD01				
ITEM	DESCRIPTION	REFERENCE TO CML MAT. No.	QTY PER A/C	SEE NOTES
	Lockwire Stainless Steel or Nickel Alloy	19-018	As required	

References	
Aircraft Maintenance Manual (AMM)	Task 36-22-17-400-802
Process and Material Specification (PMS)	Process and Material Specification (PMS) 01-05-01
Fig. A-GBDAA Installation of the Sensing Element 140HF on the APU Bleed-Air-Duct	Sheet 01 Sheet 02 Sheet 03 Sheet 04 Sheet 05
Fig. A-GBEAA Tolerances for Waviness and Bends in Sensing Elements	Sheet 01 Sheet 02
Fig. A-GBCAA Installation of the Sleeves on the APU Bleed-Air-Duct	Sheet 01 Sheet 02 Sheet 03

NOTE: For tolerances for waviness and bends in sensing element wire, refer to Fig. A-GBEAA Sheet 01 and Fig. A-GBEAA Sheet 02.

(a) Install the sensing element 140HF on the APU bleed-air-duct.

Refer to Fig. A-GBDAA Sheet 01 thru Fig. A-GBDAA Sheet 05.

Refer to AMM Task 36-22-17-400-802.

1 Between Frame 88 thru Frame 95, put the sensing element 140HF in position:

Refer to Fig. A-GBDAA Sheet 02, View B.

FIN 140HF				
1	Element-Sensing,Overheat	35660-2-310	Item 18	

2 Between Frame 88 thru Frame 93, install:

Refer to Fig. A-GBDAA Sheet 02, View B and Fig. A-GBDAA Sheet 04, View K.

11	Sleeve-Protective	NSA5539S	Item 17	
	and close:			
11	Clamp-single	NAS5538-00	Item (26)	Retained at removal

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3 Install a new protective sleeve on the sensing element at Frame 91:

Refer to Fig. A-GBCAA Sheet 03, View J.

1	Sleeve-Protective	NSA5539S	Item 17	

4 At Frame 93, install:

Refer to Fig. A-GBDAA Sheet 02, View B and Fig. A-GBDAA Sheet 04, View J.

1	Sleeve-Protective	NSA5539S	Item 17	
1	Spacer	NSA5527-03-01	Item (24)	Retained at removal
1	Clamp-single	NAS5538-00	Item (26)	Retained at removal
1	Screw	NAS1801-3-13	Item 35	

5 Torque tighten the screw, Item 35, to 0.40m.daN (35.403lbf.in).

6 Between Frame 93 and Frame 94, loosely install:

Refer to Fig. A-GBDAA Sheet 02, View B and Fig. A-GBDAA Sheet 03, View G.

2	Sleeve-Protective	NSA5539S	Item 17	
1	Spacer	NSA5527-03-01	Item (24)	Retained at removal
1	Washer	NAS1149D0332K	Item 31	
2	Clamp	NSA5538-00	Item 32	
1	Spacer	NSA5527-03-13	Item 33	
1	Screw	NAS1801-3-28	Item 34	

7 Hand tighten the screw, Item 34, then after you have installed the sensing element 140HF, torque tighten the screw, Item 34, to 0.40m.daN (35.403lbf.in).

8 Between Frame 94 and Frame 95, loosely install:

Refer to Fig. A-GBDAA Sheet 02, View B and Fig. A-GBDAA Sheet 03, Views C, D and F.

4	Sleeve-Protective	NSA5539S	Item 17

and close:

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2	Clamp-double	NSA5543-00	Item (23)	Retained at removal
	and			
2	Sleeve-Protective	NSA5539S	Item 17	
2	Nut	NSA5110-3-1	Item 27	
2	Screw	NAS1801-3-5	Item 29	
2	Washer	NAS1149D0332K	Item 31	
2	Clamp	NSA5538-00	Item 32	

NOTE: The clamps, Item 32, must be installed with the given angle, refer to Fig. A-GBDAA Sheet 03, View C.

9 Torque tighten the screws, Item 29, to 0.40m.daN (35.403lbf.in).

10 Between Frame 88 and Frame 95, install the sensing element 140HF.

a STEP 1:

Refer to Fig. A-GBDAA Sheet 02, Fig. A-GBDAA Sheet 04 and Fig. A-GBDAA Sheet 05.

<1> At Frame 93, connect the sensing element 140HF, Item 18, to the coupling of the sensing element 34HF, refer to AMM Task 36-22-17-400-802 with:

Refer to Fig. A-GBDAA Sheet 04, View H.

1	Nut	NSA5542-00	Item (25)	Retained at removal

<2> Torque tighten the nut, Item (25), to 0.25m.daN (22.13lbf.in).

<3> Safety the couplings of the sensing elements and the nut, Item (25), with lockwire, refer to Process and Material Specification (PMS) 01-05-01:

Lockwire Stainless Steel or Nickel Alloy	19-018	As required

b STEP 2:

Refer to Fig. A-GBDAA Sheet 05.

<1> Route the sensing element 140HF, Item 18, to the next clamp at the position of STEP 2.

NOTE: For tolerances for waviness and bends in sensing

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element wire, refer to Fig. A-GBEAA Sheet 01 and Fig. A-GBEAA Sheet 02.

NOTE: Make sure that the sensing element goes across the blowout apertures.

NOTE: Make sure that there is no contact between the sensing element and the insulation sleeves.

c STEP 3 thru STEP 11:

Refer to Fig. A-GBDAA Sheet 05.

<1> Install the sensing element 140HF, follow the installation position sequence STEP 3 thru STEP 11.

NOTE: For tolerances for waviness and bends in sensing element wire, refer to Fig. A-GBEAA Sheet 01 and Fig. A-GBEAA Sheet 02.

NOTE: Make sure that the sensing element goes across the blowout apertures.

NOTE: Make sure that there is no contact between the sensing element and the insulation sleeves.

<2> Between Frame 94 and Frame 95, install on the sensing element:

Refer to Fig. A-GBDAA Sheet 03, View E.

2	Sleeve-Protective	NSA5539S	Item 17
1	Tie-Cable	NSA935401-04	Item 19
1	Spacer	NSA5527-03-08D	Item 36

d STEP 12 thru STEP 22:

Refer to Fig. A-GBDAA Sheet 05.

<1> Install the sensing element 140HF, follow the installation position sequence STEP 12 thru STEP 22.

Adjust the over-all length of the sensing element 140HF with two 360 degree loops between the brackets at Frame 89 and at Frame 92.

NOTE: For tolerances for waviness and bends in sensing element wire, refer to Fig. A-GBEAA Sheet 01 and Fig. A-GBEAA Sheet 02.

NOTE: The positions of the blowout apertures of the APU bleed-air duct must be under the sensing element.

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NOTE: Make sure that there is no contact between the sensing element and the insulation sleeves.

<2> Between Frame 88 and Frame 89, connect the sensing element 140HF, Item 18, with the sensing element 139HF, refer to Fig. A-GBDAA Sheet 04, View L.

<3> Safety the sensing element couplings with lockwire, refer to Process and Material Specification (PMS) 01-05-01:

Lockwire Stainless Steel or Nickel Alloy	19-018	As required

**CONF 002

(1) Subtask 364035-831-201-002 - Loosen the sensing element

Work Zones and Access Panels			
	Zone	Access/Work location	
	310	Access	Door 312AR, Door 313AL
		Work location	from Frame 90 to Frame 93

Manpower Resources	
Manhours	2.00
Minimum number of person	1
Subtask elapsed time	2.00
Skills	NON SPECIFIC

Material necessary to do the job

Consumable CMLD01				
ITEM	DESCRIPTION	REFERENCE TO CML MAT. No.	QTY PER A/C	SEE NOTES
	Solvent General Purpose	11-026	As required	
	Lint-Free Cotton Cloth	19-003	As required	

References	
Aircraft Maintenance Manual (AMM)	Task 36-22-17-000-802
Fig. A-GBBAB Removal of the Sensing Element 140HF from the APU Bleed-Air-Duct	Sheet 01 Sheet 02

(a) As a standard procedure clean the work areas if necessary, with:

Solvent General Purpose	11-026	As required

and

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	Lint-Free Cotton Cloth	19-003		As required

(b) Loosen the sensing element 140HF from the APU bleed-air-duct.

Refer to Fig. A-GBBAB Sheet 01 and Fig. A-GBBAB Sheet 02.

Refer to AMM Task 36-22-17-000-802.

1 Between Frame 91 thru Frame 93, open the clamps:

Refer to Fig. A-GBBAB Sheet 02, View E.

4	Clamp-single	NAS5538-00	Item (26)	Retain
	and remove:			
4	Sleeve-Protective	NSA5539S	Item (17)	Discard

2 At Frame 93, remove:

Refer to Fig. A-GBBAB Sheet 02, View D.

1	Sleeve-Protective	NSA5539S	Item (17)	Discard
1	Spacer	NSA5527-03-01	Item (24)	Retain
1	Clamp-single	NAS5538-00	Item (26)	Retain
	with			
1	Screw	NAS1096-3-13	Item (30)	Discard

3 Between Frame 93 and Frame 94, open the upper part of the double clamp and remove:

Refer to Fig. A-GBBAB Sheet 02, View C.

1	Sleeve-Protective	NSA5539S	Item (17)	Discard

4 Between Frame 91 thru Frame 94, remove the sensing element from the opened clamps:

Refer to AMM Task 36-22-17-000-802.

Refer to Fig. A-GBBAB Sheet 02, View B.

1	Sensing Element 140HF		Item (36)	Retain

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(2) Subtask 364035-831-202-003 - Install the insulation sleeves

Work Zones and Access Panels			
	Zone	Access/Work location	
	310	Access	Door 312AR, Door 313AL
		Work location	from Frame 83 to Frame 94

Manpower Resources	
Manhours	2.25
Minimum number of person	1
Subtask elapsed time	2.25
Skills	NON SPECIFIC

Material necessary to do the job

Kit 364035D03R00

ITEM	NEW PART N°	QTY (UM)	KEYWORD	SEE NOTES
9	F3617062404200	1	SLEEVE	
10	F3617062404600	1	SLEEVE	
11	F3617062402200	1	SLEEVE	
12	F3617062405000	1	SLEEVE	
13	F3617062401600	1	SLEEVE	
14	F3617062403800	1	SLEEVE	
15	F3617062404800	1	SLEEVE	
16	F3617062404400	1	SLEEVE	
17	NSA5539S	4	SLEEVE	

References	
Aircraft Maintenance Manual (AMM)	Task 36-22-17-000-801 Task 36-22-17-400-801
Fig. A-GBCAC Installation of the Sleeves on the APU Bleed-Air-Duct	Sheet 01 Sheet 02 Sheet 03

(a) Install the insulation sleeves on the APU bleed-air duct.

Refer to Fig. A-GBCAC Sheet 01 thru Fig. A-GBCAC Sheet 03.

1 Loosen the sensing elements between Frame 83 thru Frame 94, in preparation for the installation of the insulation sleeves, refer to AMM Task 36-22-17-000-801.

2 Between Frame 83 thru Frame 94, install the insulation sleeves on the APU bleed-air-duct:

Refer to Fig. A-GBCAC Sheet 01 thru Fig. A-GBCAC Sheet 03.

1 Sleeve Assy F3617062404200 Item 9

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1	Sleeve Assy	F3617062404600	Item 10
1	Sleeve Assy	F3617062402200	Item 11
1	Sleeve Assy	F3617062405000	Item 12
1	Sleeve Assy	F3617062401600	Item 13
1	Sleeve Assy	F3617062404800	Item 15
1	Sleeve Assy	F3617062404400	Item 16

NOTE: Make sure that the sensing element goes across the blowout apertures.

NOTE: Make sure that there is no contact between the sensing element and the insulation sleeves.

3 Install the insulation sleeve between Frame 86 and Frame 87.

Refer to Fig. A-GBCAC Sheet 03, View F.

a For the installation of the insulation sleeve, Item 14, open the detection clips and lift the sensing element from the brackets.

b Pull the anti-rotation devices of the insulation sleeve, Item 14, over the brackets and install:

1	Sleeve Assy	F3617062403800	Item 14

c Reinstall the sensing element.

4 Install new protective sleeves on the sensing elements at Frame 83, between Frame 84 and Frame 85, at Frame 88, and at Frame 91:

Refer to Fig. A-GBCAC Sheet 02, Views B and D, and Fig. A-GBCAC Sheet 03, Views G and H.

4	Sleeve-Protective	NSA5539S	Item 17

5 Reinstall the sensing elements between Frame 83 thru Frame 94, except the sensing element 140HF (Refer to AMM Task 36-22-17-400-801).

(3) Subtask 364035-831-203-002 - Reroute the sensing element 140HF

Work Zones and Access Panels			
	Zone	Access/Work location	
	310	Access	Door 312AR, Door 313AL
		Work location	from Frame 90 to Frame 94

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Manpower Resources	
Manhours	1.75
Minimum number of person	1
Subtask elapsed time	1.75
Skills	ELECTRICAL

Material necessary to do the job

Kit 364035D05R00				
ITEM	NEW PART N°	QTY (UM)	KEYWORD	SEE NOTES
17	NSA5539S	5	SLEEVE	
35	NAS1801-3-13	1	SCREW	

References	
Aircraft Maintenance Manual (AMM)	Task 36-22-17-400-802
Fig. A-GBDAB Rerouting of the Sensing Element 140HF on the APU Bleed-Air-Duct	Sheet 01 Sheet 02 Sheet 03
Fig. A-GBEAA Tolerances for Waviness and Bends in Sensing Elements	Sheet 01 Sheet 02

NOTE: For tolerances for waviness and bends in sensing element wire, refer to Fig. A-GBEAA Sheet 01 and Fig. A-GBEAA Sheet 02.

(a) Reroute the sensing element 140HF on the APU bleed-air duct and install the clamps.

Refer to Fig. A-GBDAB Sheet 01 thru Fig. A-GBDAB Sheet 03.

Refer to AMM Task 36-22-17-400-802.

1 Between Frame 90 and Frame 93, install:

Refer to Fig. A-GBDAB Sheet 02, View E.

4	Sleeve-Protective	NSA5539S	Item 17	

and close:

4	Clamp-single	NAS5538-00	Item (26)	Retained at removal

2 At Frame 93, install:

Refer to Fig. A-GBDAB Sheet 02, View D.

1	Sleeve-Protective	NSA5539S	Item 17	

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1	Spacer	NSA5527-03-01	Item (24)	Retained at removal
1	Clamp-single	NAS5538-00	Item (26)	Retained at removal
	with			
1	Screw	NAS1801-3-13	Item 35	

3 Torque tighten the screw, Item 35, to 0.40m.daN (35.403lbf.in).

4 Between Frame 93 and Frame 94, close the upper part of the double clamp without the sensing element 140HF.

Refer to Fig. A-GBDAB Sheet 02, View C.

NOTE: Only the lower part of the clamp stays in use.

5 Between Frame 90 thru 94, reroute the sensing element 140HF.

a STEP 1 thru STEP 2:

Refer to Fig. A-GBDAB Sheet 03.

<1> From Frame 94 to Frame 93, route the sensing element 140HF straight from the clamp at STEP 1 to the next clamp at STEP 2.

1	Sensing Element 140HF		Item (36)	Retained at removal

NOTE: For tolerances for waviness and bends in sensing element wire, refer to Fig. A-GBEAA Sheet 01 and Fig. A-GBEAA Sheet 02.

NOTE: The positions of the blowout apertures of the APU bleed-air duct must be under the sensing element.

NOTE: Make sure that there is no contact between the sensing element and the insulation sleeves.

b STEP 3 thru STEP 6

Refer to Fig. A-GBDAB Sheet 03.

<1> Install the sensing element 140HF by following the installation position sequence STEP 3 thru STEP 6.

NOTE: Make sure that the sensing element wire is routed with an acceptable distance to the insulation sleeve at STEP 6.

NOTE: For tolerances for waviness and bends in sensing element wire, refer to Fig. A-GBEAA Sheet 01 and

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Fig. A-GBEAA Sheet 02.

NOTE: The positions of the blowout apertures of the APU bleed-air duct must be under the sensing element.

NOTE: Make sure that there is no contact between the sensing element and the insulation sleeves.

**CONF 003

(1) Subtask 364035-831-201-002 - Loosen the sensing element

Work Zones and Access Panels			
	Zone	Access/Work location	
	310	Access	Door 312AR, Door 313AL
		Work location	from Frame 90 to Frame 93

Manpower Resources	
Manhours	2.00
Minimum number of person	1
Subtask elapsed time	2.00
Skills	NON SPECIFIC

Material necessary to do the job

Consumable CMLD01				
ITEM	DESCRIPTION	REFERENCE TO CML MAT. No.	QTY PER A/C	SEE NOTES
	Solvent General Purpose	11-026	As required	
	Lint-Free Cotton Cloth	19-003	As required	

References	
Aircraft Maintenance Manual (AMM)	Task 36-22-17-000-802
Fig. A-GBBAB Removal of the Sensing Element 140HF from the APU Bleed-Air-Duct	Sheet 01 Sheet 02

(a) As a standard procedure clean the work areas if necessary, with:

Solvent General Purpose	11-026	As required
and		
Lint-Free Cotton Cloth	19-003	As required

(b) Loosen the sensing element 140HF from the APU bleed-air-duct.

Refer to Fig. A-GBBAB Sheet 01 and Fig. A-GBBAB Sheet 02.

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Refer to AMM Task 36-22-17-000-802.

1 Between Frame 91 thru Frame 93, open the clamps:

Refer to Fig. A-GBBAB Sheet 02, View E.

4	Clamp-single	NAS5538-00	Item (26)	Retain
	and remove:			
4	Sleeve-Protective	NSA5539S	Item (17)	Discard

2 At Frame 93, remove:

Refer to Fig. A-GBBAB Sheet 02, View D.

1	Sleeve-Protective	NSA5539S	Item (17)	Discard
1	Spacer	NSA5527-03-01	Item (24)	Retain
1	Clamp-single	NAS5538-00	Item (26)	Retain
	with			
1	Screw	NAS1096-3-13	Item (30)	Discard

3 Between Frame 93 and Frame 94, open the upper part of the double clamp and remove:

Refer to Fig. A-GBBAB Sheet 02, View C.

1	Sleeve-Protective	NSA5539S	Item (17)	Discard

4 Between Frame 91 thru Frame 94, remove the sensing element from the opened clamps:

Refer to AMM Task 36-22-17-000-802.

Refer to Fig. A-GBBAB Sheet 02, View B.

1	Sensing Element 140HF		Item (36)	Retain

(2) Subtask 364035-831-202-002 - Install the insulation sleeves

Work Zones and Access Panels			
	Zone	Access/Work location	
	310	Access	Door 312AR, Door 313AL
		Work location	from Frame 83 to Frame 94

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Manpower Resources	
Manhours	2.25
Minimum number of person	1
Subtask elapsed time	2.25
Skills	NON SPECIFIC

Material necessary to do the job

Kit 364035D02R00				
ITEM	NEW PART N°	QTY (UM)	KEYWORD	SEE NOTES
1	F3617062400000	1	SLEEVE	
2	F3617062400200	1	SLEEVE	
9	F3617062404200	1	SLEEVE	
12	F3617062405000	1	SLEEVE	
13	F3617062401600	1	SLEEVE	
14	F3617062403800	1	SLEEVE	
15	F3617062404800	1	SLEEVE	
16	F3617062404400	1	SLEEVE	
17	NSA5539S	3	SLEEVE	

References	
Aircraft Maintenance Manual (AMM)	Task 36-22-17-000-801 Task 36-22-17-400-801
Fig. A-GBCAB Installation of the Sleeves on the APU Bleed-Air-Duct	Sheet 01 Sheet 02 Sheet 03

(a) Install the insulation sleeves on the APU bleed-air duct.

Refer to Fig. A-GBCAB Sheet 01 thru Fig. A-GBCAB Sheet 03.

1 Loosen the sensing elements between Frame 83 thru Frame 94, in preparation for the installation of the insulation sleeves, refer to AMM Task 36-22-17-000-801.

2 Between Frame 83 thru Frame 94, install the insulation sleeves on the APU bleed-air-duct:

Refer to Fig. A-GBCAB Sheet 01 thru Fig. A-GBCAB Sheet 03.

1	Sleeve Assy	F3617062400000	Item 1
1	Sleeve Assy	F3617062400200	Item 2
1	Sleeve Assy	F3617062404200	Item 9
1	Sleeve Assy	F3617062405000	Item 12

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1	Sleeve Assy	F3617062401600	Item 13
1	Sleeve Assy	F3617062404800	Item 15
1	Sleeve Assy	F3617062404400	Item 16

NOTE: Make sure that the sensing element goes across the blowout apertures.

NOTE: Make sure that there is no contact between the sensing element and the insulation sleeves.

3 Install the insulation sleeve between Frame 86 and Frame 87.

Refer to Fig. A-GBCAB Sheet 03, View F.

a For the installation of the insulation sleeve, Item 14, open the detection clips and lift the sensing element from the brackets.

b Pull the anti-rotation devices of the insulation sleeve, Item 14, over the brackets and install:

1	Sleeve Assy	F3617062403800	Item 14

c Reinstall the sensing element.

4 Install new protective sleeves on the sensing elements between Frame 84 and Frame 85, at Frame 88, and at Frame 91:

Refer to Fig. A-GBCAB Sheet 02, View D, and Fig. A-GBCAB Sheet 03, Views G and H.

3	Sleeve-Protective	NSA5539S	Item 17

5 Reinstall the sensing elements between Frame 83 thru Frame 94, except the sensing element 140HF (Refer to AMM Task 36-22-17-400-801).

(3) Subtask 364035-831-203-002 - Reroute the sensing element 140HF

Work Zones and Access Panels			
	Zone	Access/Work location	
	310	Access	Door 312AR, Door 313AL
		Work location	from Frame 90 to Frame 94

Manpower Resources	
Manhours	1.75
Minimum number of person	1
Subtask elapsed time	1.75
Skills	ELECTRICAL

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Material necessary to do the job

Kit 364035D05R00				
ITEM	NEW PART N°	QTY (UM)	KEYWORD	SEE NOTES
17	NSA5539S	5	SLEEVE	
35	NAS1801-3-13	1	SCREW	

References	
Aircraft Maintenance Manual (AMM)	Task 36-22-17-400-802
Fig. A-GBDAB Rerouting of the Sensing Element 140HF on the APU Bleed-Air-Duct	Sheet 01 Sheet 02 Sheet 03
Fig. A-GBEAA Tolerances for Waviness and Bends in Sensing Elements	Sheet 01 Sheet 02

NOTE: For tolerances for waviness and bends in sensing element wire, refer to Fig. A-GBEAA Sheet 01 and Fig. A-GBEAA Sheet 02.

(a) Reroute the sensing element 140HF on the APU bleed-air duct and install the clamps.

Refer to Fig. A-GBDAB Sheet 01 thru Fig. A-GBDAB Sheet 03.

Refer to AMM Task 36-22-17-400-802.

1 Between Frame 90 and Frame 93, install:

Refer to Fig. A-GBDAB Sheet 02, View E.

4	Sleeve-Protective	NSA5539S	Item 17	

and close:

4	Clamp-single	NAS5538-00	Item (26)	Retained at removal

2 At Frame 93, install:

Refer to Fig. A-GBDAB Sheet 02, View D.

1	Sleeve-Protective	NSA5539S	Item 17	
1	Spacer	NSA5527-03-01	Item (24)	Retained at removal
1	Clamp-single	NAS5538-00	Item (26)	Retained at removal

with

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1	Screw	NAS1801-3-13	Item 35

3 Torque tighten the screw, Item 35, to 0.40m.daN (35.403lbf.in).

4 Between Frame 93 and Frame 94, close the upper part of the double clamp without the sensing element 140HF.

Refer to Fig. A-GBDAB Sheet 02, View C.

NOTE: Only the lower part of the clamp stays in use.

5 Between Frame 90 thru 94, reroute the sensing element 140HF.

a STEP 1 thru STEP 2:

Refer to Fig. A-GBDAB Sheet 03.

<1> From Frame 94 to Frame 93, route the sensing element 140HF straight from the clamp at STEP 1 to the next clamp at STEP 2.

1	Sensing Element 140HF		Item (36)	Retained at removal

NOTE: For tolerances for waviness and bends in sensing element wire, refer to Fig. A-GBEAA Sheet 01 and Fig. A-GBEAA Sheet 02.

NOTE: The positions of the blowout apertures of the APU bleed-air duct must be under the sensing element.

NOTE: Make sure that there is no contact between the sensing element and the insulation sleeves.

b STEP 3 thru STEP 6

Refer to Fig. A-GBDAB Sheet 03.

<1> Install the sensing element 140HF by following the installation position sequence STEP 3 thru STEP 6.

NOTE: Make sure that the sensing element wire is routed with an acceptable distance to the insulation sleeve at STEP 6.

NOTE: For tolerances for waviness and bends in sensing element wire, refer to Fig. A-GBEAA Sheet 01 and Fig. A-GBEAA Sheet 02.

NOTE: The positions of the blowout apertures of the APU bleed-air duct must be under the sensing element.

NOTE: Make sure that there is no contact between the sensing element and the insulation sleeves.

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**CONF 004

(1) Subtask 364035-831-201-001 - Remove the sensing element 140HF

Work Zones and Access Panels			
	Zone	Access/Work location	
	310	Access	Door 313AL, Door 312AR
		Work location	from Frame 88 to Frame 93

Manpower Resources	
Manhours	4.50
Minimum number of person	1
Subtask elapsed time	4.50
Skills	NON SPECIFIC

Material necessary to do the job

Consumable CMLD01				
ITEM	DESCRIPTION	REFERENCE TO CML MAT. No.	QTY PER A/C	SEE NOTES
	Solvent General Purpose	11-026	As required	
	Lint-Free Cotton Cloth	19-003	As required	

References	
Aircraft Maintenance Manual (AMM)	Task 36-22-17-000-802
Fig. A-GBBAA Removal of the Sensing Element 140HF from the APU Bleed-Air-Duct	Sheet 01 Sheet 02 Sheet 03 Sheet 04

(a) As a standard procedure clean the work areas if necessary, with:

Solvent General Purpose	11-026	As required
and		
Lint-Free Cotton Cloth	19-003	As required

(b) Remove the sensing element 140HF from the APU bleed-air-duct.

Refer to Fig. A-GBBAA Sheet 01 thru Fig. A-GBBAA Sheet 04.

Refer to AMM Task 36-22-17-000-802.

1 Between Frame 88 and Frame 89, cut and discard the lockwires and disconnect the sensing element 140HF from the sensing element 139HF, refer to Fig. A-GBBAA Sheet 04, View J and AMM Task 36-22-17-000-802.

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2 At Frame 93, cut and discard the lockwires and disconnect the sensing element 140HF from the connecting cable 34HF, refer to AMM Task 36-22-17-000-802.

Refer to Fig. A-GBBAA Sheet 03, View F.

Remove:

1	Nut	NSA5542-00	Item (25)	Retain

3 Between Frame 88 thru Frame 93, open the clamps:

Refer to Fig. A-GBBAA Sheet 02, View B and Fig. A-GBBAA Sheet 04, View H.

11	Clamp-single	NAS5538-00	Item (26)	Retain

and remove:

11	Sleeve-Protective	NSA5539S	Item (17)	Discard

4 At Frame 93, remove:

Refer to Fig. A-GBBAA Sheet 02, View B and Fig. A-GBBAA Sheet 04, View G.

1	Sleeve-Protective	NSA5539S	Item (17)	Discard
1	Spacer	NSA5527-03-01	Item (24)	Retain
1	Clamp-single	NAS5538-00	Item (26)	Retain
1	Screw	NAS1096-3-13	Item (30)	Discard

5 Between Frame 93 and Frame 94, remove:

Refer to Fig. A-GBBAA Sheet 02, View B and Fig. A-GBBAA Sheet 03, View E.

2	Sleeve-Protective	NSA5539S	Item (17)	Discard
1	Clamp-double	NSA5543-00	Item (23)	Discard
1	Spacer	NSA5527-03-01	Item (24)	Retain
1	Washer	NAS1149D0332K	Item (28)	Discard
1	Screw	NAS1096-3-13	Item (30)	Discard

6 Between Frame 94 and Frame 95, remove:

Refer to Fig. A-GBBAA Sheet 02, View B and Fig. A-GBBAA Sheet 03, Views C and D.

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4	Sleeve-Protective	NSA5539S	Item (17)	Discard
2	Clamp-double	NSA5543-00	Item (23)	Retain
	and			
2	Sleeve-Protective	NSA5539S	Item (17)	Discard
1	Clamp-double	NSA5543-00	Item (23)	Discard
1	Nut	NSA5110-3-1	Item (27)	Discard
1	Washer	NAS1149D0332K	Item (28)	Discard
1	Screw	NAS1096-3-5	Item (29)	Discard

7 Between Frame 88 and Frame 95, remove the sensing element 140HF:

Refer to AMM Task 36-22-17-000-802.

Refer to Fig. A-GBBAA Sheet 01, View A and Fig. A-GBBAA Sheet 02, View B.

FIN 140HF

1	Sensing Element	35636-2-310	Item (18)	Discard

(2) Subtask 364035-831-202-001 - Install the insulation sleeves

Work Zones and Access Panels			
	Zone	Access/Work location	
	310	Access	Door 313AL, Door 312AR
		Work location	from Frame 83 to Frame 94

Manpower Resources	
Manhours	1.50
Minimum number of person	1
Subtask elapsed time	1.50
Skills	NON SPECIFIC

Material necessary to do the job

Kit 364035D01R01				
ITEM	NEW PART N°	QTY (UM)	KEYWORD	SEE NOTES
1	F3617062400000	1	SLEEVE	
2	F3617062400200	1	SLEEVE	
3	F3617062400400	1	SLEEVE	
4	F3617062400600	1	SLEEVE	
5	F3617062400800	1	SLEEVE	

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ITEM	NEW PART N°	QTY (UM)	KEYWORD	SEE NOTES
6	F3617062401000	1	SLEEVE	
7	F3617062401800	1	SLEEVE	
8	F3617062405200	1	SLEEVE	
9	F3617062404200	1	SLEEVE	

References	
Aircraft Maintenance Manual (AMM)	Task 36-22-17-000-801 Task 36-22-17-400-801
Fig. A-GBCAA Installation of the Sleeves on the APU Bleed-Air-Duct	Sheet 01 Sheet 02 Sheet 03

(a) Install the insulation sleeves on the APU bleed-air duct.

Refer to Fig. A-GBCAA Sheet 01 thru Fig. A-GBCAA Sheet 03.

1 Loosen the remaining sensing elements 139HF and 33HF between Frame 83 thru Frame 88, in preparation for the installation of the insulation sleeves, refer to AMM Task 36-22-17-000-801.

2 Between Frame 83 thru Frame 94, install the insulation sleeves on the APU bleed-air-duct:

1	Sleeve Assy	F3617062400000	Item 1
1	Sleeve Assy	F3617062400200	Item 2
1	Sleeve Assy	F3617062400400	Item 3
1	Sleeve Assy	F3617062400600	Item 4
1	Sleeve Assy	F3617062400800	Item 5
1	Sleeve Assy	F3617062401000	Item 6
1	Sleeve Assy	F3617062401800	Item 7
1	Sleeve Assy	F3617062405200	Item 8
1	Sleeve Assy	F3617062404200	Item 9

NOTE: Make sure that the sensing element goes across the blowout apertures.

NOTE: Make sure that there is no contact between the sensing element and the insulation sleeves.

3 Reinstall the sensing element between Frame 83 thru Frame 88, refer to AMM Task 36-22-17-400-801.

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(3) Subtask 364035-831-203-001 - Install the new sensing element 140HF

Work Zones and Access Panels			
	Zone	Access/Work location	
	310	Access	Door 312AR, Door 313AL
		Work location	from Frame 88 to Frame 95

Manpower Resources	
Manhours	6.25
Minimum number of person	1
Subtask elapsed time	6.25
Skills	ELECTRICAL

Material necessary to do the job

Kit 364035D01R01				
ITEM	NEW PART N°	QTY (UM)	KEYWORD	SEE NOTES
17	NSA5539S	1	SLEEVE	

Kit 364035D04R00				
ITEM	NEW PART N°	QTY (UM)	KEYWORD	SEE NOTES
17	NSA5539S	22	SLEEVE	
18	35660-2-310	1	ELEMENT	
19	NSA935401-04	1	TIE	
27	NSA5110-3-1	2	NUT	
29	NAS1801-3-5	2	SCREW	
31	NAS1149D0332K	3	WASHER	
32	NSA5538-00	4	CLAMP	
33	NSA5527-03-13	1	SPACER	
34	NAS1801-3-28	1	SCREW	
35	NAS1801-3-13	1	SCREW	
36	NSA5527-03-08D	1	SPACER	

Consumable CMLD01				
ITEM	DESCRIPTION	REFERENCE TO CML MAT. No.	QTY PER A/C	SEE NOTES
	Lockwire Stainless Steel or Nickel Alloy	19-018	As required	

References	
Aircraft Maintenance Manual (AMM)	Task 36-22-17-400-802
Process and Material Specification (PMS)	Process and Material Specification (PMS) 01-05-01

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References	
Fig. A-GBDAA Installation of the Sensing Element 140HF on the APU Bleed-Air-Duct	Sheet 01 Sheet 02 Sheet 03 Sheet 04 Sheet 05
Fig. A-GBEAA Tolerances for Waviness and Bends in Sensing Elements	Sheet 01 Sheet 02
Fig. A-GBCAA Installation of the Sleeves on the APU Bleed-Air-Duct	Sheet 01 Sheet 02 Sheet 03

NOTE: For tolerances for waviness and bends in sensing element wire, refer to Fig. A-GBEAA Sheet 01 and Fig. A-GBEAA Sheet 02.

(a) Install the sensing element 140HF on the APU bleed-air-duct.

Refer to Fig. A-GBDAA Sheet 01 thru Fig. A-GBDAA Sheet 05.

Refer to AMM Task 36-22-17-400-802.

1 Between Frame 88 thru Frame 95, put the sensing element 140HF in position:

Refer to Fig. A-GBDAA Sheet 02, View B.

FIN 140HF				
1	Element-Sensing,Overheat	35660-2-310	Item 18	

2 Between Frame 88 thru Frame 93, install:

Refer to Fig. A-GBDAA Sheet 02, View B and Fig. A-GBDAA Sheet 04, View K.

11	Sleeve-Protective	NSA5539S	Item 17	

and close:

11	Clamp-single	NAS5538-00	Item (26)	Retained at removal

3 Install a new protective sleeve on the sensing element at Frame 91:

Refer to Fig. A-GBCAA Sheet 03, View J.

1	Sleeve-Protective	NSA5539S	Item 17

4 At Frame 93, install:

Refer to Fig. A-GBDAA Sheet 02, View B and Fig. A-GBDAA Sheet 04, View J.

1	Sleeve-Protective	NSA5539S	Item 17

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1	Spacer	NSA5527-03-01	Item (24)	Retained at removal
1	Clamp-single	NAS5538-00	Item (26)	Retained at removal
1	Screw	NAS1801-3-13	Item 35	

5 Torque tighten the screw, Item 35, to 0.40m.daN (35.403lbf.in).

6 Between Frame 93 and Frame 94, loosely install:

Refer to Fig. A-GBDAA Sheet 02, View B and Fig. A-GBDAA Sheet 03, View G.

2	Sleeve-Protective	NSA5539S	Item 17	
1	Spacer	NSA5527-03-01	Item (24)	Retained at removal
1	Washer	NAS1149D0332K	Item 31	
2	Clamp	NSA5538-00	Item 32	
1	Spacer	NSA5527-03-13	Item 33	
1	Screw	NAS1801-3-28	Item 34	

7 Hand tighten the screw, Item 34, then after you have installed the sensing element 140HF, torque tighten the screw, Item 34, to 0.40m.daN (35.403lbf.in).

8 Between Frame 94 and Frame 95, loosely install:

Refer to Fig. A-GBDAA Sheet 02, View B and Fig. A-GBDAA Sheet 03, Views C, D and F.

4	Sleeve-Protective	NSA5539S	Item 17	

and close:

2	Clamp-double	NSA5543-00	Item (23)	Retained at removal

and

2	Sleeve-Protective	NSA5539S	Item 17	
2	Nut	NSA5110-3-1	Item 27	
2	Screw	NAS1801-3-5	Item 29	
2	Washer	NAS1149D0332K	Item 31	

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2	Clamp	NSA5538-00	Item 32	

NOTE: The clamps, Item 32, must be installed with the given angle, refer to Fig. A-GBDAA Sheet 03, View C.

9 Torque tighten the screws, Item 29, to 0.40m.daN (35.403lbf.in).

10 Between Frame 88 and Frame 95, install the sensing element 140HF.

a STEP 1:

Refer to Fig. A-GBDAA Sheet 02, Fig. A-GBDAA Sheet 04 and Fig. A-GBDAA Sheet 05.

<1> At Frame 93, connect the sensing element 140HF, Item 18, to the coupling of the sensing element 34HF, refer to AMM Task 36-22-17-400-802 with:

Refer to Fig. A-GBDAA Sheet 04, View H.

1	Nut	NSA5542-00	Item (25)	Retained at removal

<2> Torque tighten the nut, Item (25), to 0.25m.daN (22.13lbf.in).

<3> Safety the couplings of the sensing elements and the nut, Item (25), with lockwire, refer to Process and Material Specification (PMS) 01-05-01:

Lockwire Stainless Steel or Nickel Alloy	19-018	As required

b STEP 2:

Refer to Fig. A-GBDAA Sheet 05.

<1> Route the sensing element 140HF, Item 18, to the next clamp at the position of STEP 2.

NOTE: For tolerances for waviness and bends in sensing element wire, refer to Fig. A-GBEAA Sheet 01 and Fig. A-GBEAA Sheet 02.

NOTE: Make sure that the sensing element goes across the blowout apertures.

NOTE: Make sure that there is no contact between the sensing element and the insulation sleeves.

c STEP 3 thru STEP 11:

Refer to Fig. A-GBDAA Sheet 05.

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<1> Install the sensing element 140HF, follow the installation position sequence STEP 3 thru STEP 11.

NOTE: For tolerances for waviness and bends in sensing element wire, refer to Fig. A-GBEAA Sheet 01 and Fig. A-GBEAA Sheet 02.

NOTE: Make sure that the sensing element goes across the blowout apertures.

NOTE: Make sure that there is no contact between the sensing element and the insulation sleeves.

<2> Between Frame 94 and Frame 95, install on the sensing element:

Refer to Fig. A-GBDAA Sheet 03, View E.

2	Sleeve-Protective	NSA5539S	Item 17
1	Tie-Cable	NSA935401-04	Item 19
1	Spacer	NSA5527-03-08D	Item 36

d STEP 12 thru STEP 22:

Refer to Fig. A-GBDAA Sheet 05.

<1> Install the sensing element 140HF, follow the installation position sequence STEP 12 thru STEP 22.

Adjust the over-all length of the sensing element 140HF with two 360 degree loops between the brackets at Frame 89 and at Frame 92.

NOTE: For tolerances for waviness and bends in sensing element wire, refer to Fig. A-GBEAA Sheet 01 and Fig. A-GBEAA Sheet 02.

NOTE: The positions of the blowout apertures of the APU bleed-air duct must be under the sensing element.

NOTE: Make sure that there is no contact between the sensing element and the insulation sleeves.

<2> Between Frame 88 and Frame 89, connect the sensing element 140HF, Item 18, with the sensing element 139HF, refer to Fig. A-GBDAA Sheet 04, View L.

<3> Safety the sensing element couplings with lockwire, refer to Process and Material Specification (PMS) 01-05-01:

Lockwire Stainless Steel or Nickel Alloy	19-018	As required

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**CONF 005

(1) Subtask 364035-831-201-002 - Loosen the sensing element

Work Zones and Access Panels			
	Zone	Access/Work location	
	310	Access	Door 312AR, Door 313AL
		Work location	from Frame 90 to Frame 93

Manpower Resources	
Manhours	2.00
Minimum number of person	1
Subtask elapsed time	2.00
Skills	NON SPECIFIC

Material necessary to do the job

Consumable CMLD01				
ITEM	DESCRIPTION	REFERENCE TO CML MAT. No.	QTY PER A/C	SEE NOTES
	Solvent General Purpose	11-026	As required	
	Lint-Free Cotton Cloth	19-003	As required	

References	
Aircraft Maintenance Manual (AMM)	Task 36-22-17-000-802
Fig. A-GBBAB Removal of the Sensing Element 140HF from the APU Bleed-Air-Duct	Sheet 01 Sheet 02

(a) As a standard procedure clean the work areas if necessary, with:

Solvent General Purpose	11-026	As required
and		
Lint-Free Cotton Cloth	19-003	As required

(b) Loosen the sensing element 140HF from the APU bleed-air-duct.

Refer to Fig. A-GBBAB Sheet 01 and Fig. A-GBBAB Sheet 02.

Refer to AMM Task 36-22-17-000-802.

1 Between Frame 91 thru Frame 93, open the clamps:

Refer to Fig. A-GBBAB Sheet 02, View E.

4	Clamp-single	NAS5538-00	Item (26)	Retain

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and remove:

4	Sleeve-Protective	NSA5539S	Item (17)	Discard

2 At Frame 93, remove:

Refer to Fig. A-GBBAB Sheet 02, View D.

1	Sleeve-Protective	NSA5539S	Item (17)	Discard
1	Spacer	NSA5527-03-01	Item (24)	Retain
1	Clamp-single	NAS5538-00	Item (26)	Retain

with

1	Screw	NAS1096-3-13	Item (30)	Discard

3 Between Frame 93 and Frame 94, open the upper part of the double clamp and remove:

Refer to Fig. A-GBBAB Sheet 02, View C.

1	Sleeve-Protective	NSA5539S	Item (17)	Discard

4 Between Frame 91 thru Frame 94, remove the sensing element from the opened clamps:

Refer to AMM Task 36-22-17-000-802.

Refer to Fig. A-GBBAB Sheet 02, View B.

1	Sensing Element 140HF		Item (36)	Retain

(2) Subtask 364035-831-202-003 - Install the insulation sleeves

Work Zones and Access Panels			
	Zone	Access/Work location	
	310	Access	Door 312AR, Door 313AL
		Work location	from Frame 83 to Frame 94

Manpower Resources	
Manhours	2.25
Minimum number of person	1
Subtask elapsed time	2.25
Skills	NON SPECIFIC

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Material necessary to do the job

Kit 364035D03R00				
ITEM	NEW PART N°	QTY (UM)	KEYWORD	SEE NOTES
9	F3617062404200	1	SLEEVE	
10	F3617062404600	1	SLEEVE	
11	F3617062402200	1	SLEEVE	
12	F3617062405000	1	SLEEVE	
13	F3617062401600	1	SLEEVE	
14	F3617062403800	1	SLEEVE	
15	F3617062404800	1	SLEEVE	
16	F3617062404400	1	SLEEVE	
17	NSA5539S	4	SLEEVE	

References	
Aircraft Maintenance Manual (AMM)	Task 36-22-17-000-801 Task 36-22-17-400-801
Fig. A-GBCAC Installation of the Sleeves on the APU Bleed-Air-Duct	Sheet 01 Sheet 02 Sheet 03

(a) Install the insulation sleeves on the APU bleed-air duct.

Refer to Fig. A-GBCAC Sheet 01 thru Fig. A-GBCAC Sheet 03.

1 Loosen the sensing elements between Frame 83 thru Frame 94, in preparation for the installation of the insulation sleeves, refer to AMM Task 36-22-17-000-801.

2 Between Frame 83 thru Frame 94, install the insulation sleeves on the APU bleed-air-duct:

Refer to Fig. A-GBCAC Sheet 01 thru Fig. A-GBCAC Sheet 03.

1	Sleeve Assy	F3617062404200	Item 9
1	Sleeve Assy	F3617062404600	Item 10
1	Sleeve Assy	F3617062402200	Item 11
1	Sleeve Assy	F3617062405000	Item 12
1	Sleeve Assy	F3617062401600	Item 13
1	Sleeve Assy	F3617062404800	Item 15
1	Sleeve Assy	F3617062404400	Item 16

NOTE: Make sure that the sensing element goes across the blowout

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apertures.

NOTE: Make sure that there is no contact between the sensing element and the insulation sleeves.

3 Install the insulation sleeve between Frame 86 and Frame 87.

Refer to Fig. A-GBCAC Sheet 03, View F.

a For the installation of the insulation sleeve, Item 14, open the detection clips and lift the sensing element from the brackets.

b Pull the anti-rotation devices of the insulation sleeve, Item 14, over the brackets and install:

1	Sleeve Assy	F3617062403800	Item 14

c Reinstall the sensing element.

4 Install new protective sleeves on the sensing elements at Frame 83, between Frame 84 and Frame 85, at Frame 88, and at Frame 91:

Refer to Fig. A-GBCAC Sheet 02, Views B and D, and Fig. A-GBCAC Sheet 03, Views G and H.

4	Sleeve-Protective	NSA5539S	Item 17

5 Reinstall the sensing elements between Frame 83 thru Frame 94, except the sensing element 140HF (Refer to AMM Task 36-22-17-400-801).

(3) Subtask 364035-831-203-002 - Reroute the sensing element 140HF

Work Zones and Access Panels			
	Zone	Access/Work location	
	310	Access	Door 312AR, Door 313AL
		Work location	from Frame 90 to Frame 94

Manpower Resources	
Manhours	1.75
Minimum number of person	1
Subtask elapsed time	1.75
Skills	ELECTRICAL

Material necessary to do the job

Kit 364035D05R00				
ITEM	NEW PART N°	QTY (UM)	KEYWORD	SEE NOTES
17	NSA5539S	5	SLEEVE	
35	NAS1801-3-13	1	SCREW	

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References	
Aircraft Maintenance Manual (AMM)	Task 36-22-17-400-802
Fig. A-GBDAB Rerouting of the Sensing Element 140HF on the APU Bleed-Air-Duct	Sheet 01 Sheet 02 Sheet 03
Fig. A-GBEAA Tolerances for Waviness and Bends in Sensing Elements	Sheet 01 Sheet 02

NOTE: For tolerances for waviness and bends in sensing element wire, refer to Fig. A-GBEAA Sheet 01 and Fig. A-GBEAA Sheet 02.

(a) Reroute the sensing element 140HF on the APU bleed-air duct and install the clamps.

Refer to Fig. A-GBDAB Sheet 01 thru Fig. A-GBDAB Sheet 03.

Refer to AMM Task 36-22-17-400-802.

1 Between Frame 90 and Frame 93, install:

Refer to Fig. A-GBDAB Sheet 02, View E.

4	Sleeve-Protective	NSA5539S	Item 17	
	and close:			
4	Clamp-single	NAS5538-00	Item (26)	Retained at removal

2 At Frame 93, install:

Refer to Fig. A-GBDAB Sheet 02, View D.

1	Sleeve-Protective	NSA5539S	Item 17	
1	Spacer	NSA5527-03-01	Item (24)	Retained at removal
1	Clamp-single	NAS5538-00	Item (26)	Retained at removal
	with			
1	Screw	NAS1801-3-13	Item 35	

3 Torque tighten the screw, Item 35, to 0.40m.daN (35.403lbf.in).

4 Between Frame 93 and Frame 94, close the upper part of the double clamp without the sensing element 140HF.

Refer to Fig. A-GBDAB Sheet 02, View C.

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NOTE: Only the lower part of the clamp stays in use.

5 Between Frame 90 thru 94, reroute the sensing element 140HF.

a STEP 1 thru STEP 2:

Refer to Fig. A-GBDAB Sheet 03.

<1> From Frame 94 to Frame 93, route the sensing element 140HF straight from the clamp at STEP 1 to the next clamp at STEP 2.

1	Sensing Element 140HF		Item (36)	Retained at removal

NOTE: For tolerances for waviness and bends in sensing element wire, refer to Fig. A-GBEAA Sheet 01 and Fig. A-GBEAA Sheet 02.

NOTE: The positions of the blowout apertures of the APU bleed-air duct must be under the sensing element.

NOTE: Make sure that there is no contact between the sensing element and the insulation sleeves.

b STEP 3 thru STEP 6

Refer to Fig. A-GBDAB Sheet 03.

<1> Install the sensing element 140HF by following the installation position sequence STEP 3 thru STEP 6.

NOTE: Make sure that the sensing element wire is routed with an acceptable distance to the insulation sleeve at STEP 6.

NOTE: For tolerances for waviness and bends in sensing element wire, refer to Fig. A-GBEAA Sheet 01 and Fig. A-GBEAA Sheet 02.

NOTE: The positions of the blowout apertures of the APU bleed-air duct must be under the sensing element.

NOTE: Make sure that there is no contact between the sensing element and the insulation sleeves.

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**CONF ALL

D. TEST

**CONF 001

(1) Subtask 364035-710-201-001 - Operational

Work Zones and Access Panels		
	Zone	Access/Work location
	210	

Manpower Resources	
Skills	ELECTRICAL

References	
Aircraft Maintenance Manual (AMM)	Task 36-22-00-710-801

(a) Set the light switch 4LJ in the OFF position.

(b) Do the operational test of the overheat detection system (Refer to AMM Task 36-22-00-710-801).

**CONF 002

(1) Subtask 364035-710-201-001 - Operational

Work Zones and Access Panels		
	Zone	Access/Work location
	210	

Manpower Resources	
Skills	ELECTRICAL

References	
Aircraft Maintenance Manual (AMM)	Task 36-22-00-710-801

(a) Set the light switch 4LJ in the OFF position.

(b) Do the operational test of the overheat detection system (Refer to AMM Task 36-22-00-710-801).

**CONF 003

(1) Subtask 364035-710-201-001 - Operational

Work Zones and Access Panels		
	Zone	Access/Work location
	210	

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Manpower Resources	
Skills	ELECTRICAL

References	
Aircraft Maintenance Manual (AMM)	Task 36-22-00-710-801

(a) Set the light switch 4LJ in the OFF position.

(b) Do the operational test of the overheat detection system (Refer to AMM Task 36-22-00-710-801).

**CONF 004

(1) Subtask 364035-710-201-001 - Operational

Work Zones and Access Panels		
	Zone	Access/Work location
	210	

Manpower Resources	
Skills	ELECTRICAL

References	
Aircraft Maintenance Manual (AMM)	Task 36-22-00-710-801

(a) Set the light switch 4LJ in the OFF position.

(b) Do the operational test of the overheat detection system (Refer to AMM Task 36-22-00-710-801).

**CONF 005

(1) Subtask 364035-710-201-001 - Operational

Work Zones and Access Panels		
	Zone	Access/Work location
	210	

Manpower Resources	
Skills	ELECTRICAL

References	
Aircraft Maintenance Manual (AMM)	Task 36-22-00-710-801

(a) Set the light switch 4LJ in the OFF position.

(b) Do the operational test of the overheat detection system (Refer to AMM Task 36-22-00-710-801).

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**CONF ALL

E. CLOSE-UP

**CONF 001

(1) Subtask 364035-942-201-001 - Close-up

Work Zones and Access Panels			
	Zone	Access/Work location	
	310	Access	Door 312AR, Door 313AL

Manpower Resources	
Skills	NON SPECIFIC

References	
Aircraft Maintenance Manual (AMM)	52-41-00, Page Block 001

(a) Make sure that the work areas are clean and clear of tools and other items of equipment.

(b) Release and close the maintenance door 312AR (Refer to AMM 52-41-00, Page Block 001).

(c) Release and close the accessory-compartment access door 313AL (Refer to AMM 52-41-00, Page Block 001).

(d) Remove the access platform(s).

(e) Remove the warning notices from the cockpit.

**CONF 002

(1) Subtask 364035-942-201-001 - Close-up

Work Zones and Access Panels			
	Zone	Access/Work location	
	310	Access	Door 312AR, Door 313AL

Manpower Resources	
Skills	NON SPECIFIC

References	
Aircraft Maintenance Manual (AMM)	52-41-00, Page Block 001

(a) Make sure that the work areas are clean and clear of tools and other items of equipment.

(b) Release and close the maintenance door 312AR (Refer to AMM 52-41-00, Page Block 001).

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(c) Release and close the accessory-compartment access door 313AL (Refer to AMM 52-41-00, Page Block 001).

(d) Remove the access platform(s).

(e) Remove the warning notices from the cockpit.

**CONF 003

(1) Subtask 364035-942-201-001 - Close-up

Work Zones and Access Panels			
	Zone	Access/Work location	
	310	Access	Door 312AR, Door 313AL

Manpower Resources	
Skills	NON SPECIFIC

References	
Aircraft Maintenance Manual (AMM)	52-41-00, Page Block 001

(a) Make sure that the work areas are clean and clear of tools and other items of equipment.

(b) Release and close the maintenance door 312AR (Refer to AMM 52-41-00, Page Block 001).

(c) Release and close the accessory-compartment access door 313AL (Refer to AMM 52-41-00, Page Block 001).

(d) Remove the access platform(s).

(e) Remove the warning notices from the cockpit.

**CONF 004

(1) Subtask 364035-942-201-001 - Close-up

Work Zones and Access Panels			
	Zone	Access/Work location	
	310	Access	Door 312AR, Door 313AL

Manpower Resources	
Skills	NON SPECIFIC

References	
Aircraft Maintenance Manual (AMM)	52-41-00, Page Block 001

(a) Make sure that the work areas are clean and clear of tools and other items of equipment.

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(b) Release and close the maintenance door 312AR (Refer to AMM 52-41-00, Page Block 001).

(c) Release and close the accessory-compartment access door 313AL (Refer to AMM 52-41-00, Page Block 001).

(d) Remove the access platform(s).

(e) Remove the warning notices from the cockpit.

**CONF 005

(1) Subtask 364035-942-201-001 - Close-up

Work Zones and Access Panels			
	Zone	Access/Work location	
	310	Access	Door 312AR, Door 313AL

Manpower Resources	
Skills	NON SPECIFIC

References	
Aircraft Maintenance Manual (AMM)	52-41-00, Page Block 001

(a) Make sure that the work areas are clean and clear of tools and other items of equipment.

(b) Release and close the maintenance door 312AR (Refer to AMM 52-41-00, Page Block 001).

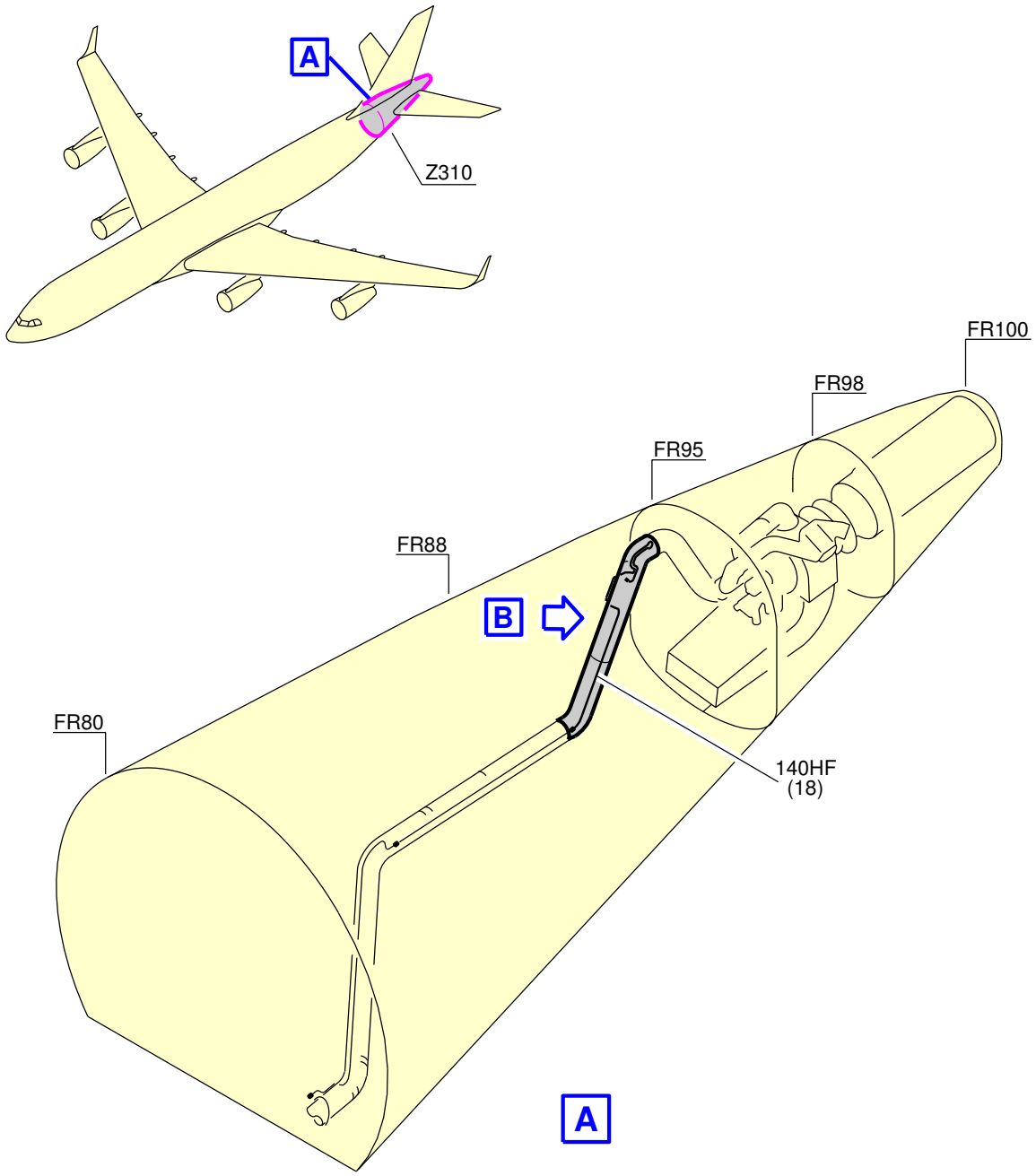
(c) Release and close the accessory-compartment access door 313AL (Refer to AMM 52-41-00, Page Block 001).

(d) Remove the access platform(s).

(e) Remove the warning notices from the cockpit.

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**CONF 001, 004

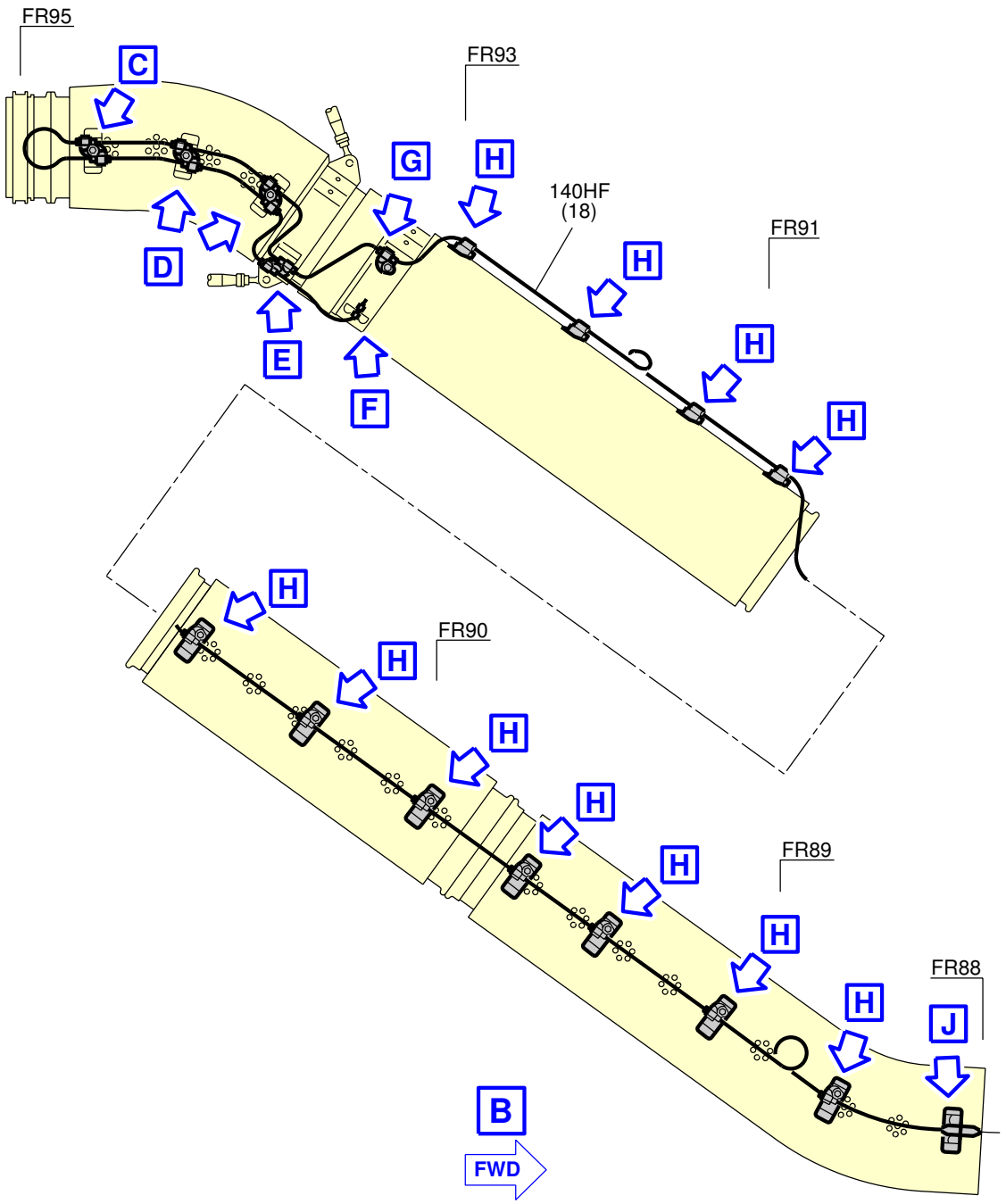


F_SB_364035_6_BBAA_01_01

Figure A-GBBAA - Sheet 01
Removal of the Sensing Element 140HF from the APU Bleed-Air-Duct

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**CONF 001, 004

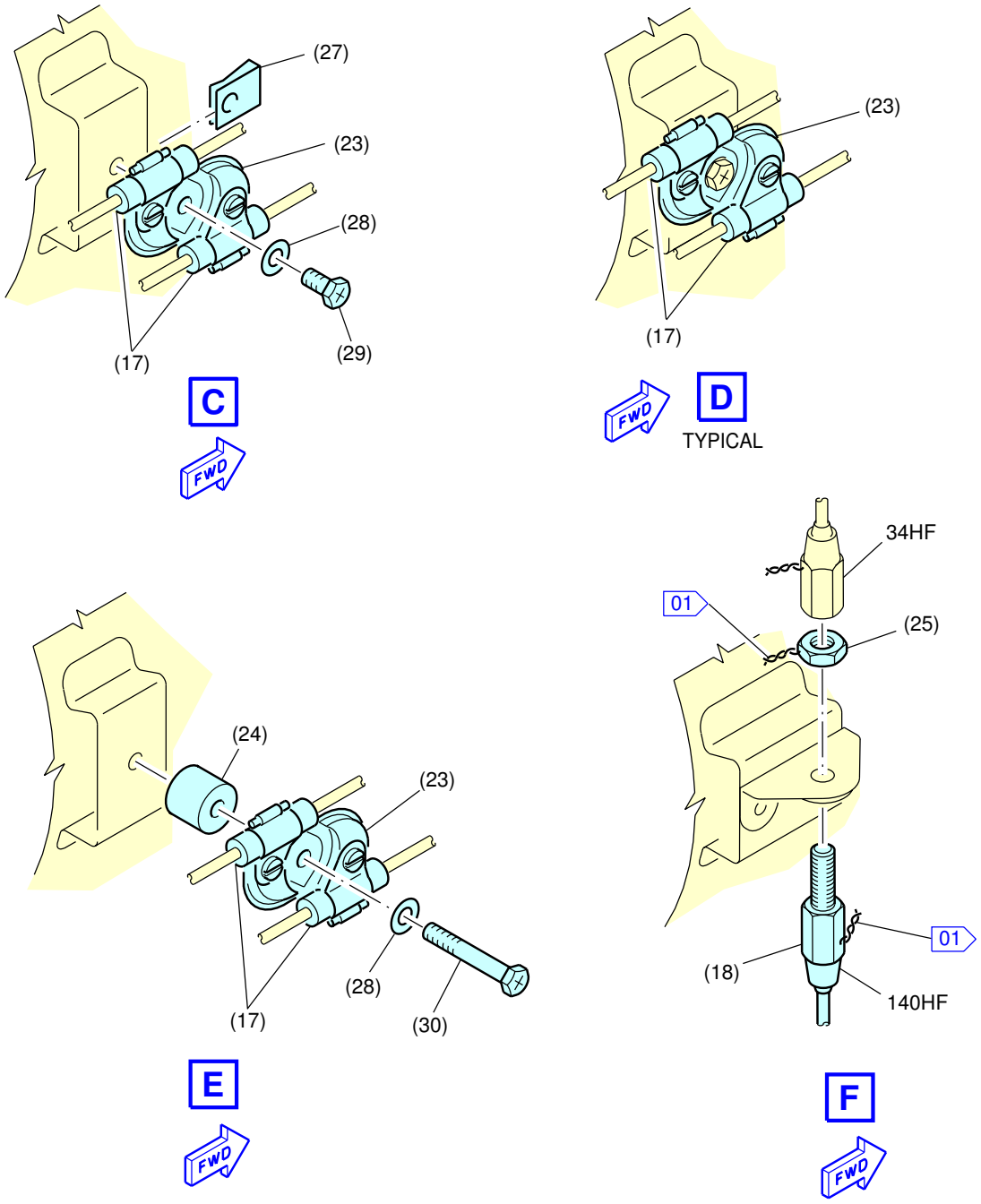


F_SB_364035_6_BBAA_02_01

Figure A-GBBAA - Sheet 02
Removal of the Sensing Element 140HF from the APU Bleed-Air-Duct

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****CONF 001, 004**



NOTE:

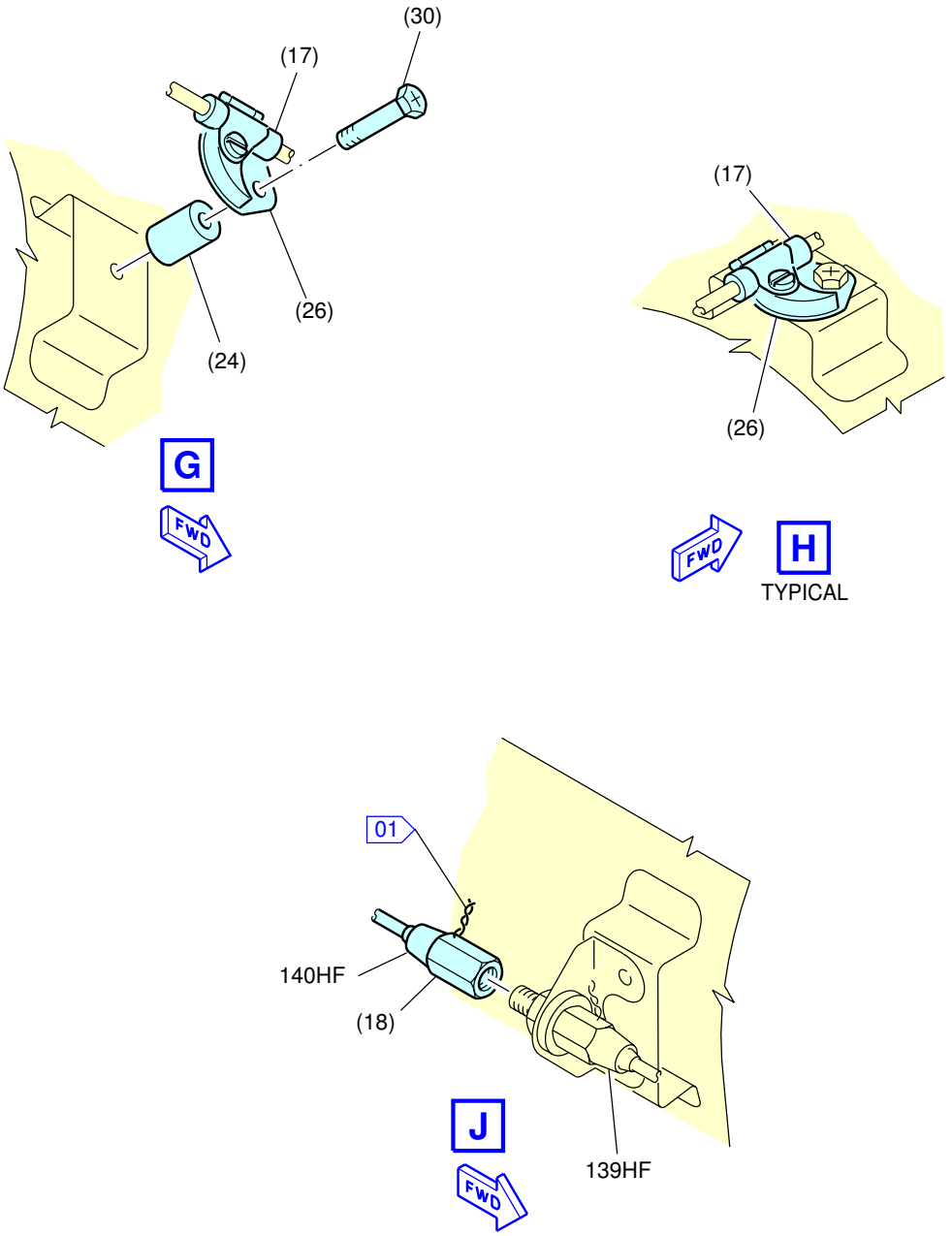
01 LOCKWIRE (MAT. NO. 19–018)

F_SB_364035_6_BBAA_03_00

Figure A-GBBAA - Sheet 03
Removal of the Sensing Element 140HF from the APU Bleed-Air-Duct

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**CONF 001, 004



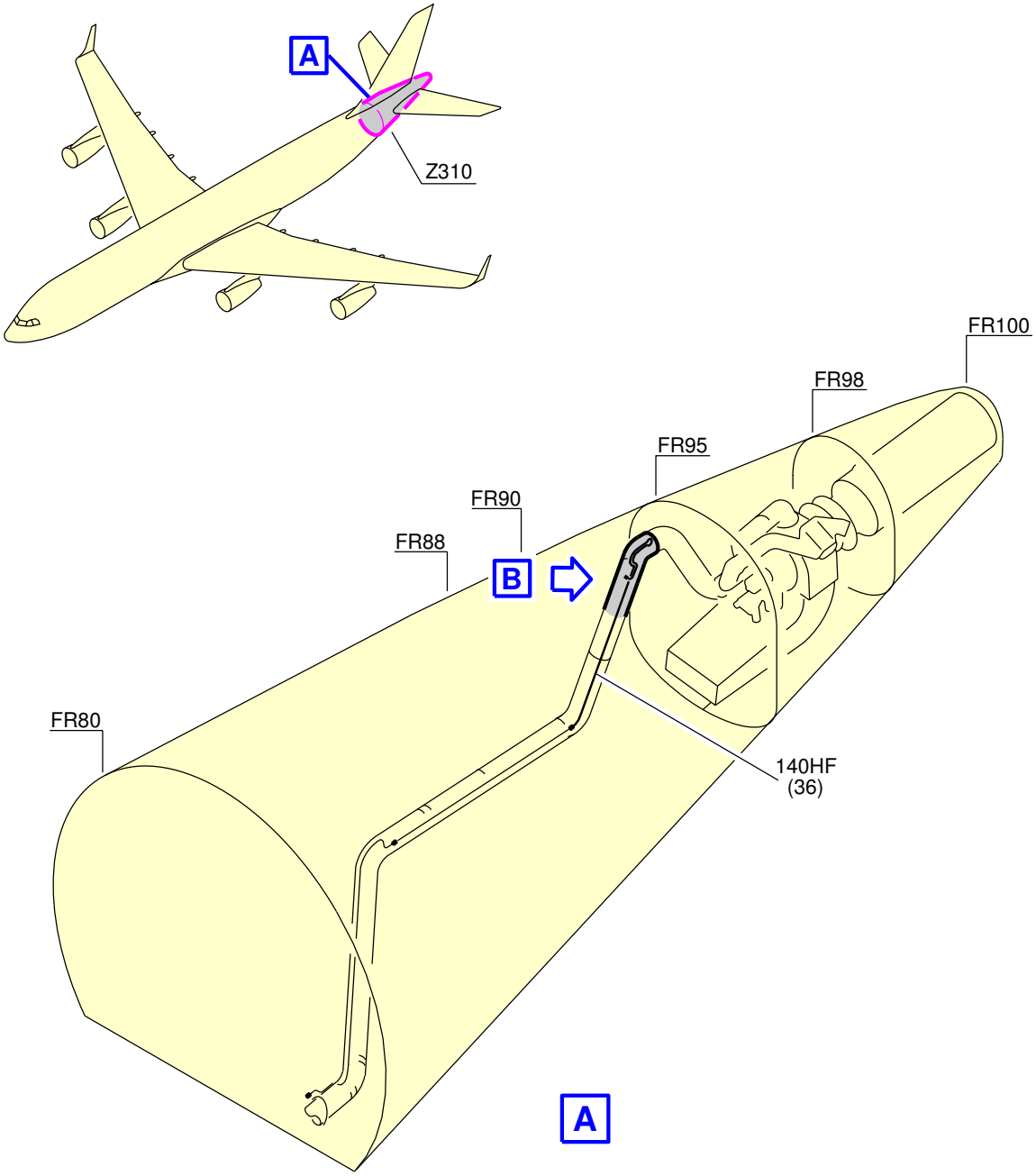
NOTE:
01 LOCKWIRE (MAT. NO. 19–018)

F_SB_364035_6_BBAA_04_00

Figure A-GBBAA - Sheet 04
Removal of the Sensing Element 140HF from the APU Bleed-Air-Duct

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**CONF 002 thru 003, 005

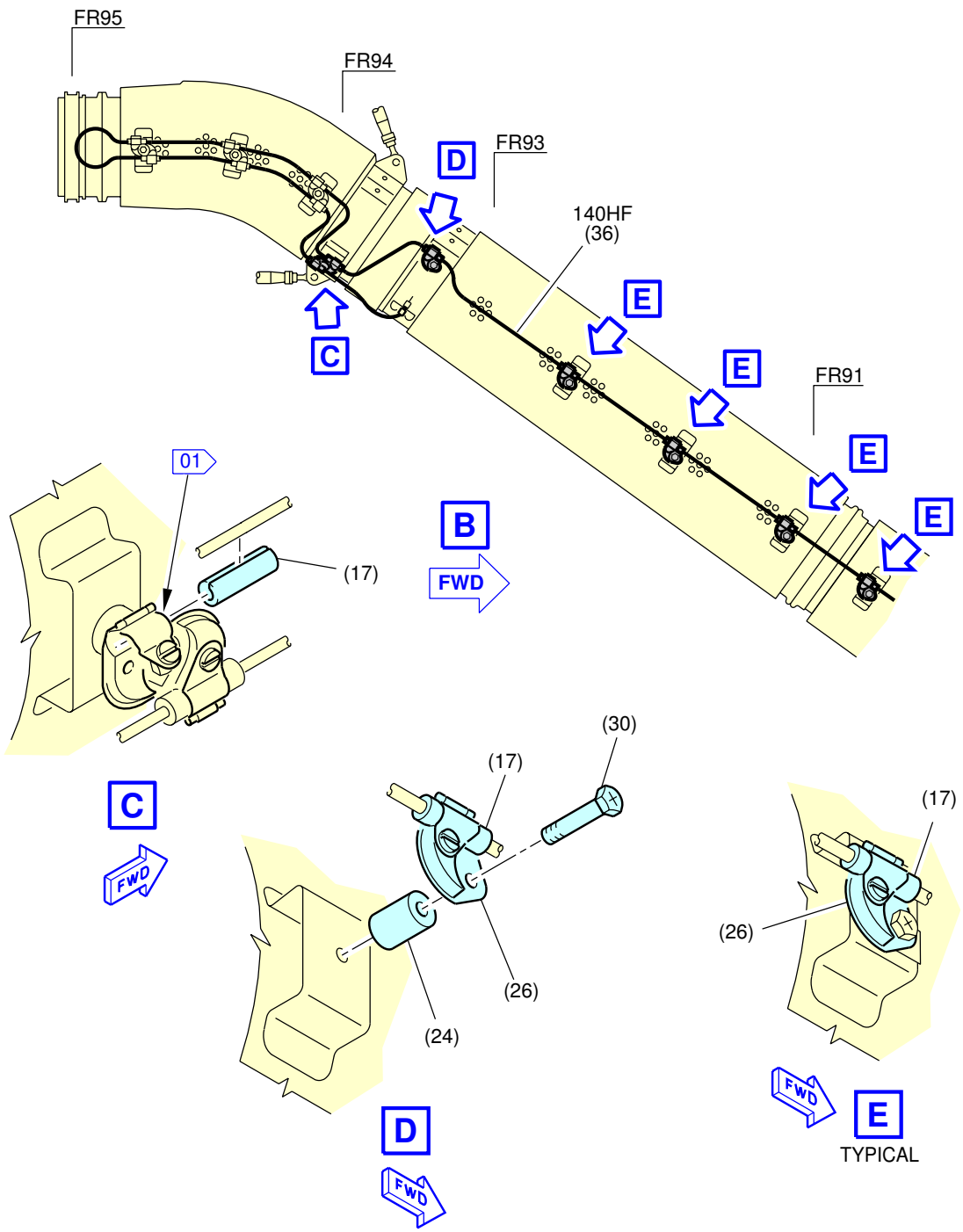


F_SB_364035_6_BBAB_01_02

Figure A-GBBAB - Sheet 01
Removal of the Sensing Element 140HF from the APU Bleed-Air-Duct

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****CONF 002 thru 003, 005**



NOTE:

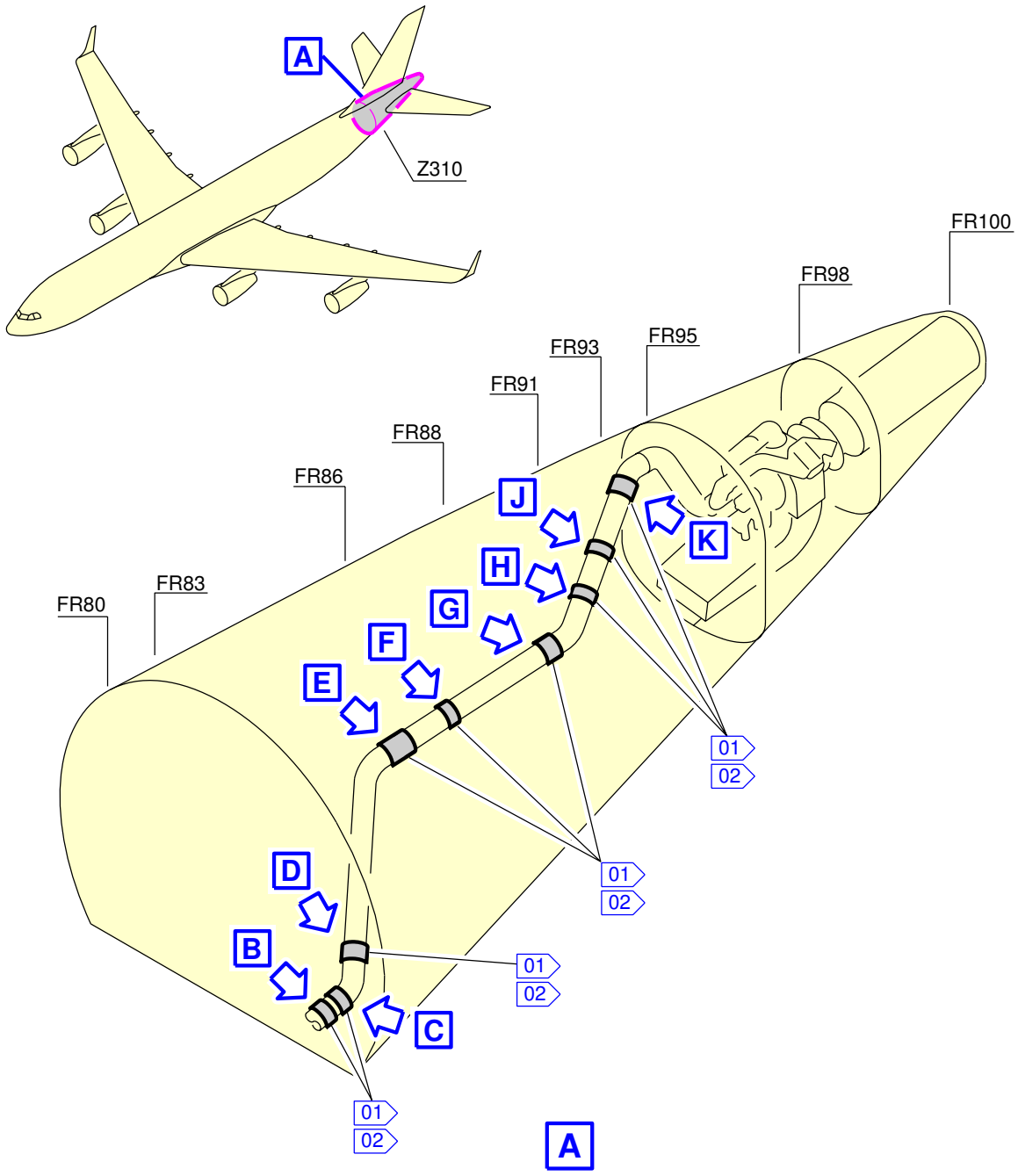
01 OPEN ONLY THIS CLAMP

F_SB_364035_6_BBAB_02_02

Figure A-GBBAB - Sheet 02
Removal of the Sensing Element 140HF from the APU Bleed-Air-Duct

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**CONF 001, 004



NOTE:

01 POSITION OF BLOWOUT APERTURE MUST BE UNDER THE SENSING ELEMENT

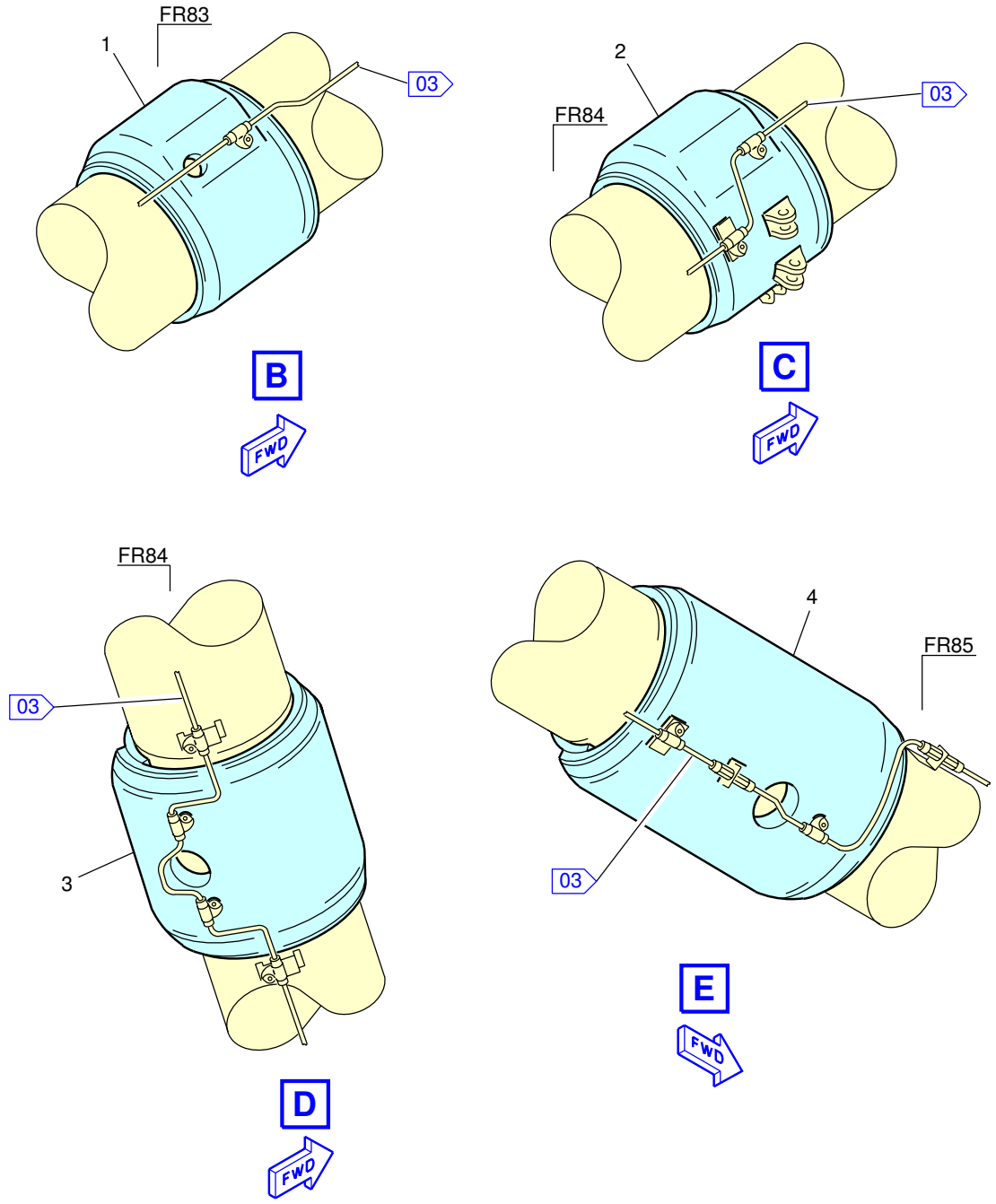
02 MAKE SURE THAT THERE IS NO CONTACT BETWEEN THE SENSING ELEMENT AND THE INSULATION SLEEVE

F_SB_364035_6_BCAA_01_01

Figure A-GBCAA - Sheet 01
Installation of the Sleeves on the APU Bleed-Air-Duct

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**CONF 001, 004



NOTE:

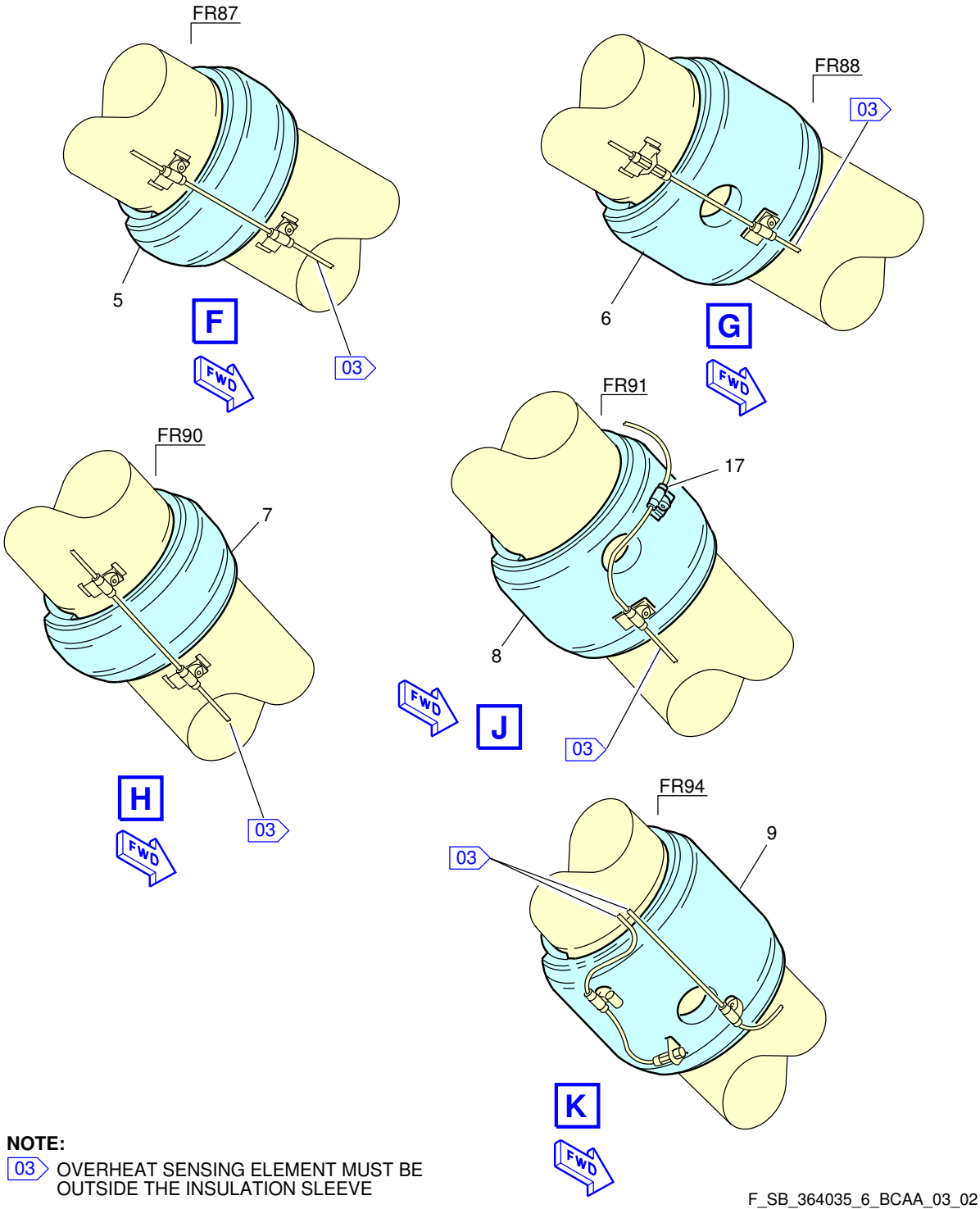
03 OVERHEAT SENSING ELEMENT MUST BE OUTSIDE THE INSULATION SLEEVE

F_SB_364035_6_BCAA_02_01

Figure A-GBCAA - Sheet 02
Installation of the Sleeves on the APU Bleed-Air-Duct

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**CONF 001, 004



NOTE:

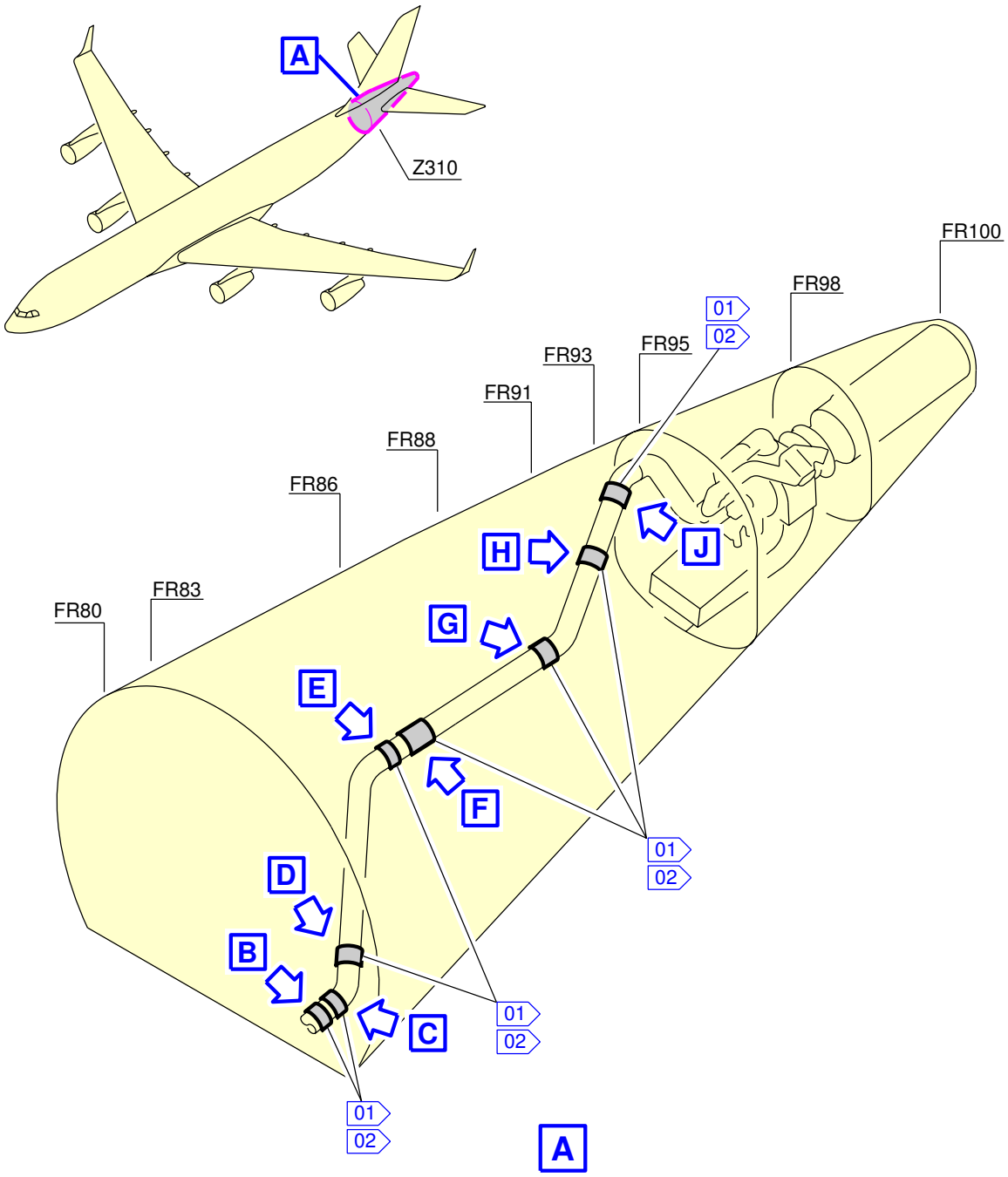
03 OVERHEAT SENSING ELEMENT MUST BE OUTSIDE THE INSULATION SLEEVE

F_SB_364035_6_BCAA_03_02

Figure A-GBCAA - Sheet 03
Installation of the Sleeves on the APU Bleed-Air-Duct

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**CONF 003



NOTE:

01 POSITION OF BLOWOUT APERTURE MUST BE UNDER THE SENSING ELEMENT

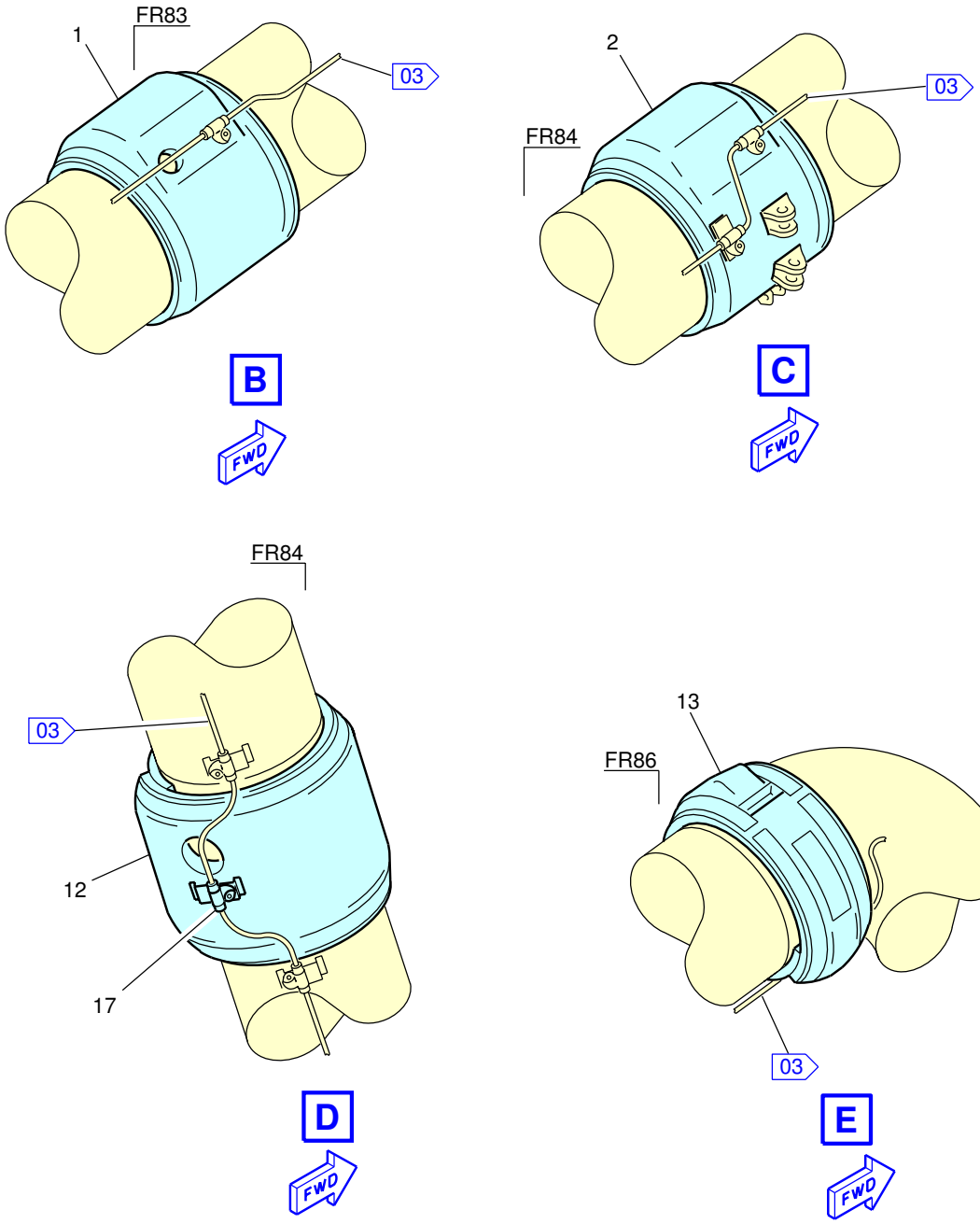
02 MAKE SURE THAT THERE IS NO CONTACT BETWEEN THE SENSING ELEMENT AND THE INSULATION SLEEVE

F_SB_364035_6_BCAB_01_01

Figure A-GBCAB - Sheet 01
Installation of the Sleeves on the APU Bleed-Air-Duct

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**CONF 003



NOTE:

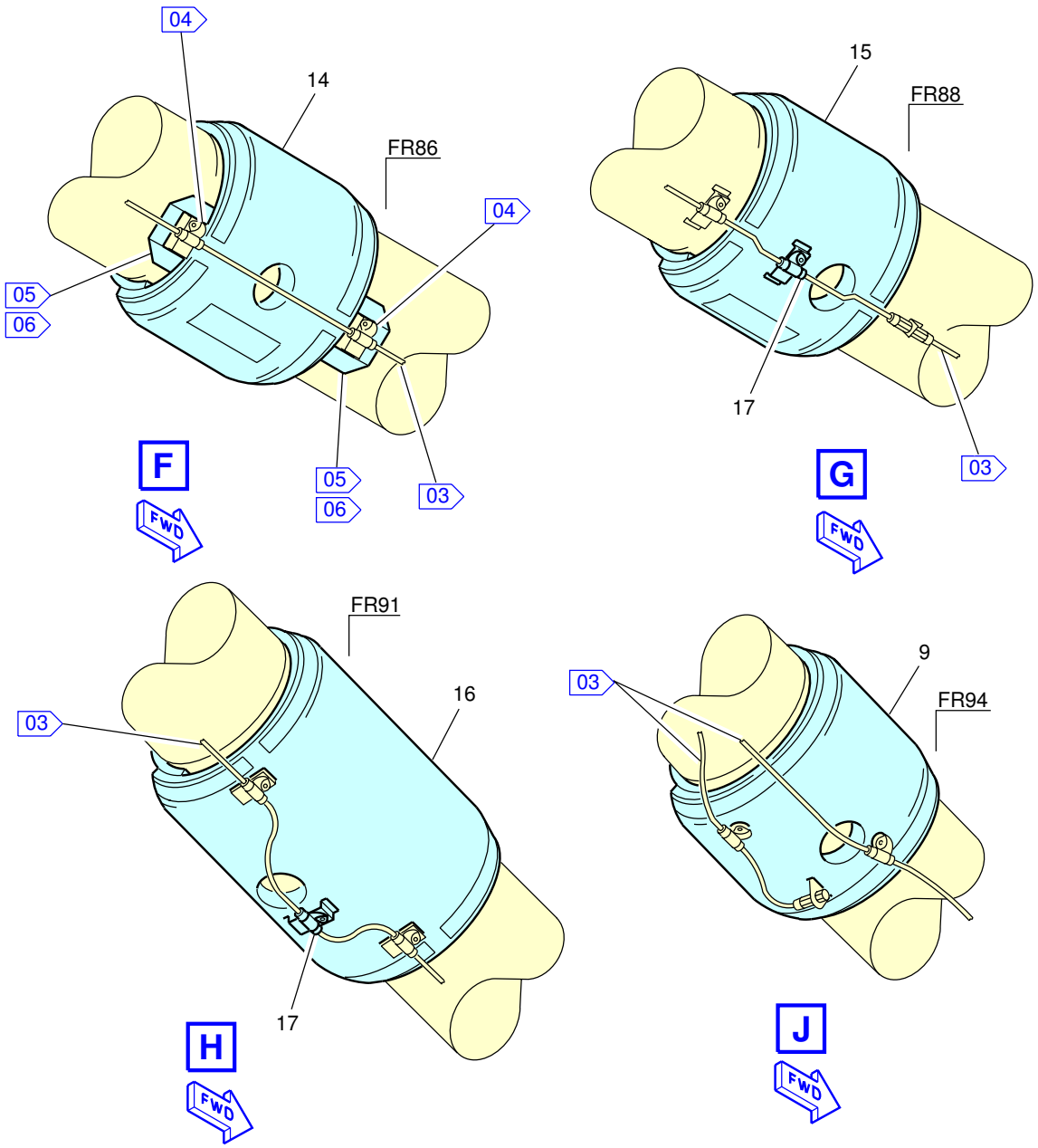
03 OVERHEAT SENSING ELEMENTS MUST BE OUTSIDE THE INSULATION SLEEVE

F_SB_364035_6_BCAB_02_02

Figure A-GBCAB - Sheet 02
Installation of the Sleeves on the APU Bleed-Air-Duct

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**CONF 003



NOTE:

03 OVERHEAT SENSING ELEMENTS MUST BE OUTSIDE THE INSULATION SLEEVE

04 FOR INSTALLATION OF THE INSULATION SLEEVE OPEN THE DETECTION CLIP AND LIFT THE SENSING ELEMENT FROM THE BRACKET

05 PULL ANTI–ROTATION DEVICE OF THE INSULATION SLEEVE OVER THE BRACKET

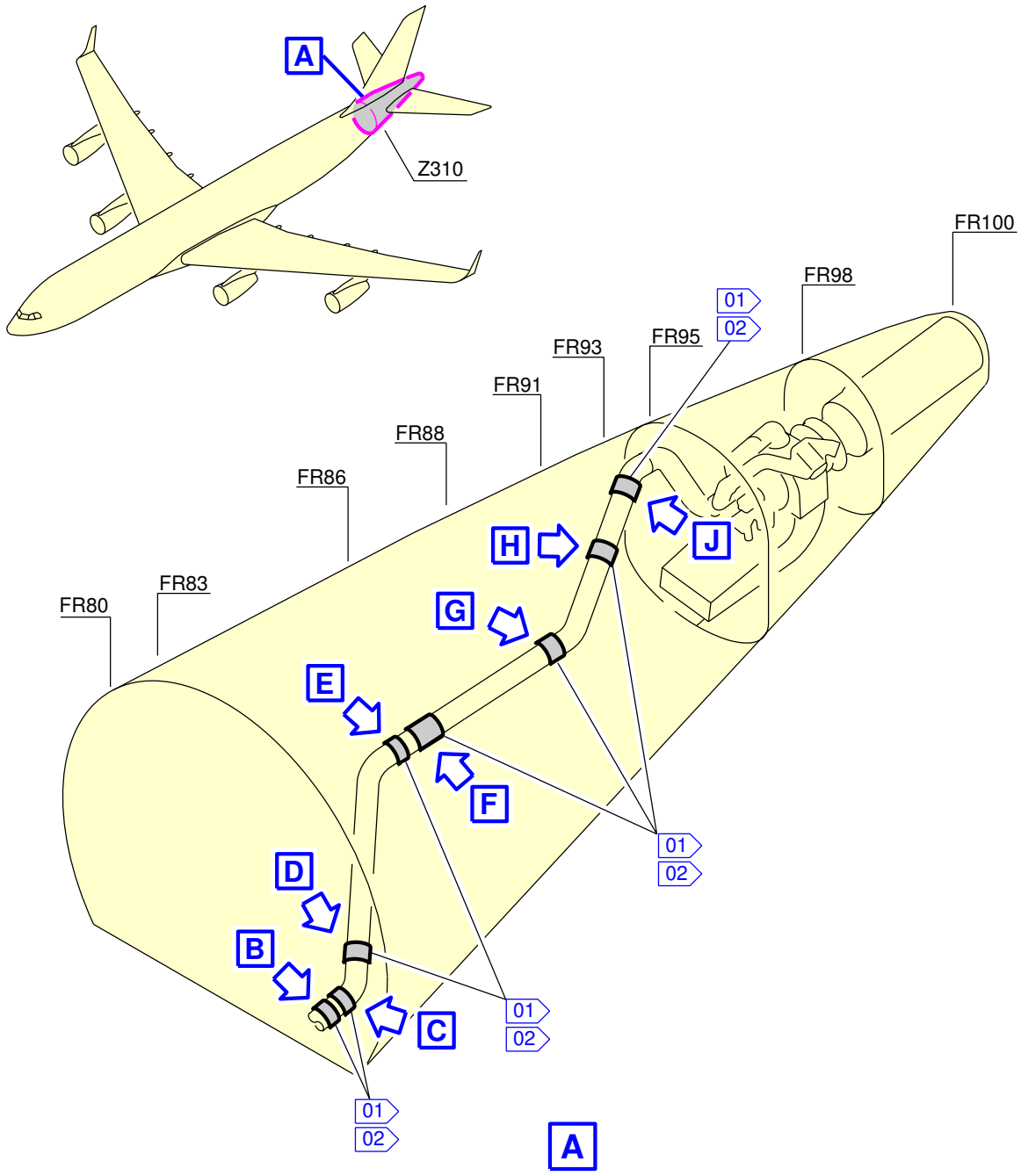
06 REINSTALLATION OF SENSING ELEMENT

F_SB_364035_6_BCAB_03_02

Figure A-GBCAB - Sheet 03
Installation of the Sleeves on the APU Bleed-Air-Duct

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**CONF 002, 005



NOTE:

01 POSITION OF BLOWOUT APERTURE MUST BE UNDER THE SENSING ELEMENT

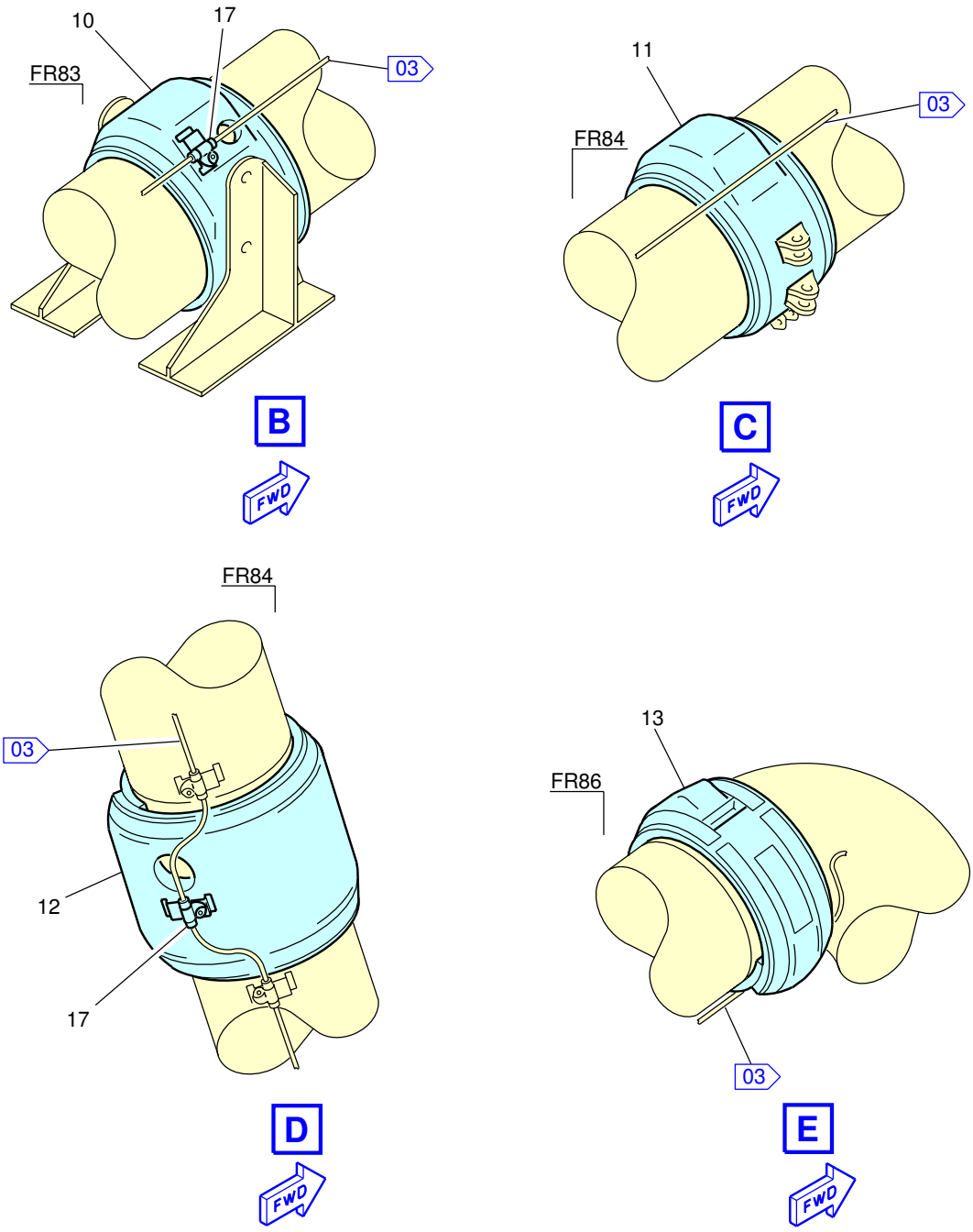
02 MAKE SURE THAT THERE IS NO CONTACT BETWEEN THE SENSING ELEMENT AND THE INSULATION SLEEVE

F_SB_364035_6_BCAC_01_01

Figure A-GBCAC - Sheet 01
Installation of the Sleeves on the APU Bleed-Air-Duct

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****CONF 002, 005**



NOTE:

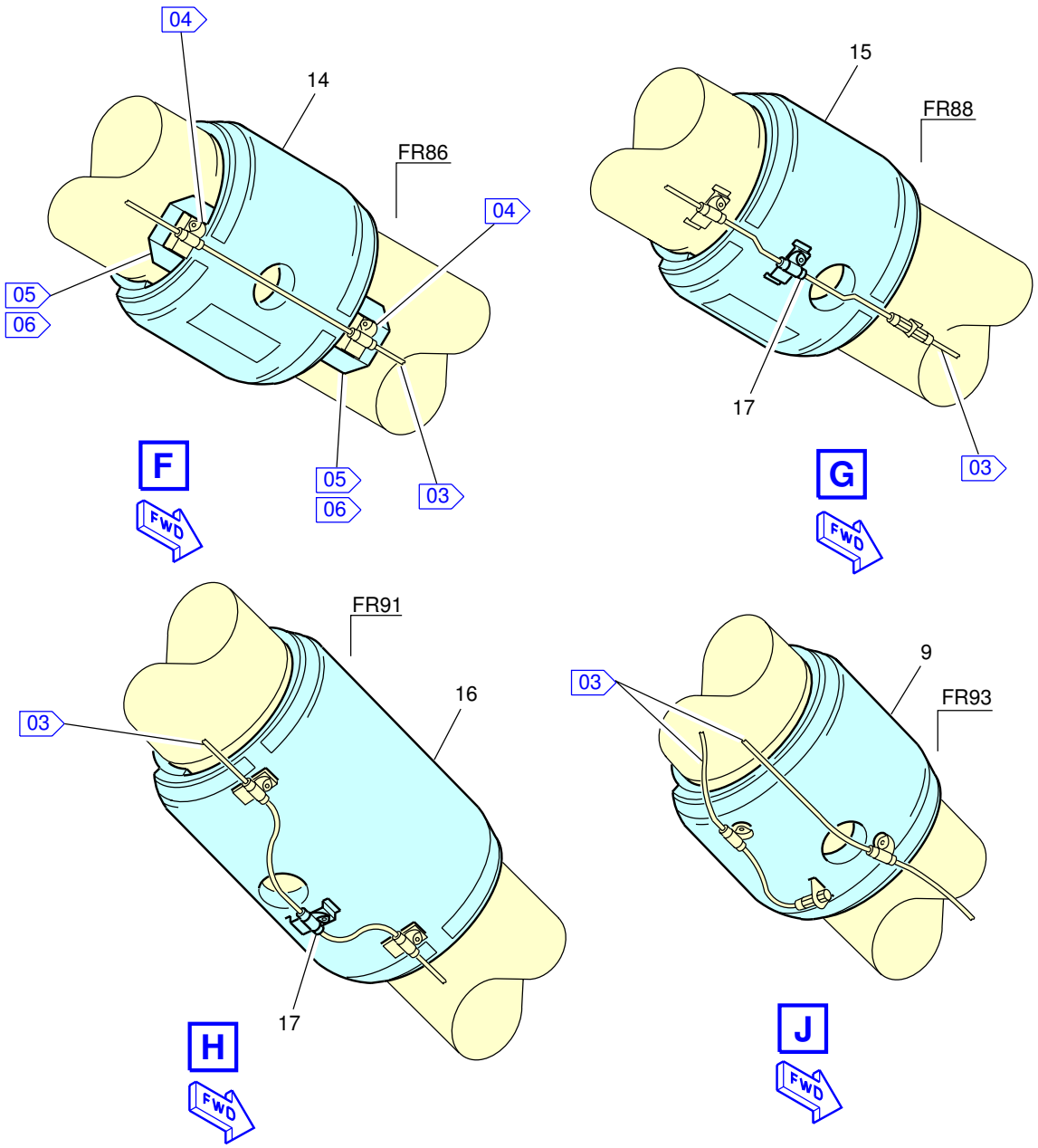
03 OVERHEAT SENSING ELEMENTS MUST BE OUTSIDE THE INSULATION SLEEVE

F_SB_364035_6_BCAC_02_02

Figure A-GBCAC - Sheet 02
Installation of the Sleeves on the APU Bleed-Air-Duct

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****CONF 002, 005**



NOTE:

03 OVERHEAT SENSING ELEMENTS MUST BE OUTSIDE THE INSULATION SLEEVE

04 FOR INSTALLATION OF THE INSULATION SLEEVE OPEN THE DETECTION CLIP AND LIFT THE SENSING ELEMENT FROM THE BRACKET

05 PULL ANTI–ROTATION DEVICE OF THE INSULATION SLEEVE OVER THE BRACKET

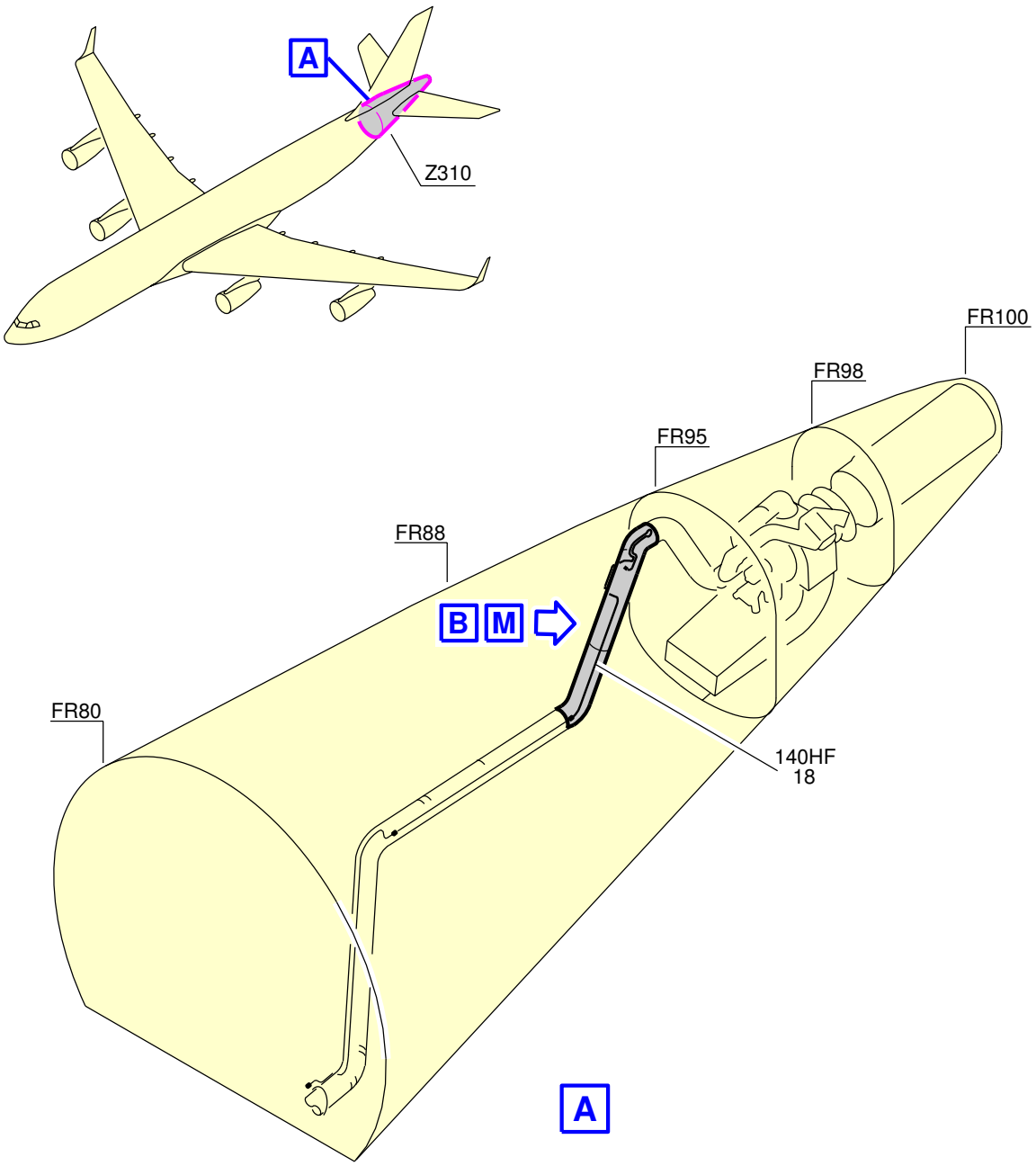
06 REINSTALLATION OF SENSING ELEMENT

F_SB_364035_6_BCAC_03_02

Figure A-GBCAC - Sheet 03
Installation of the Sleeves on the APU Bleed-Air-Duct

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**CONF 001, 004

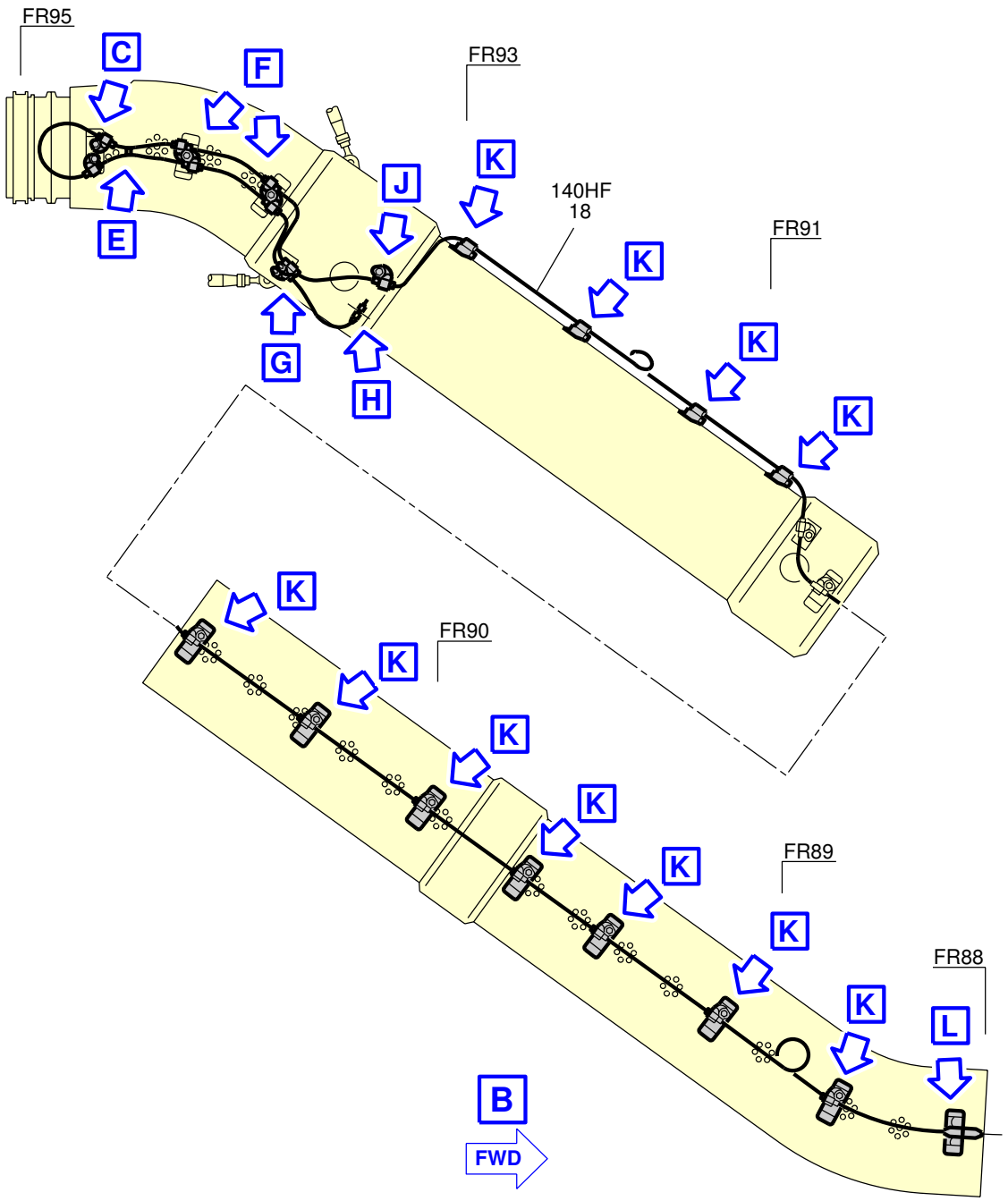


F_SB_364035_6_BDAA_01_01

Figure A-GBDAA - Sheet 01
Installation of the Sensing Element 140HF on the APU Bleed-Air-Duct

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**CONF 001, 004

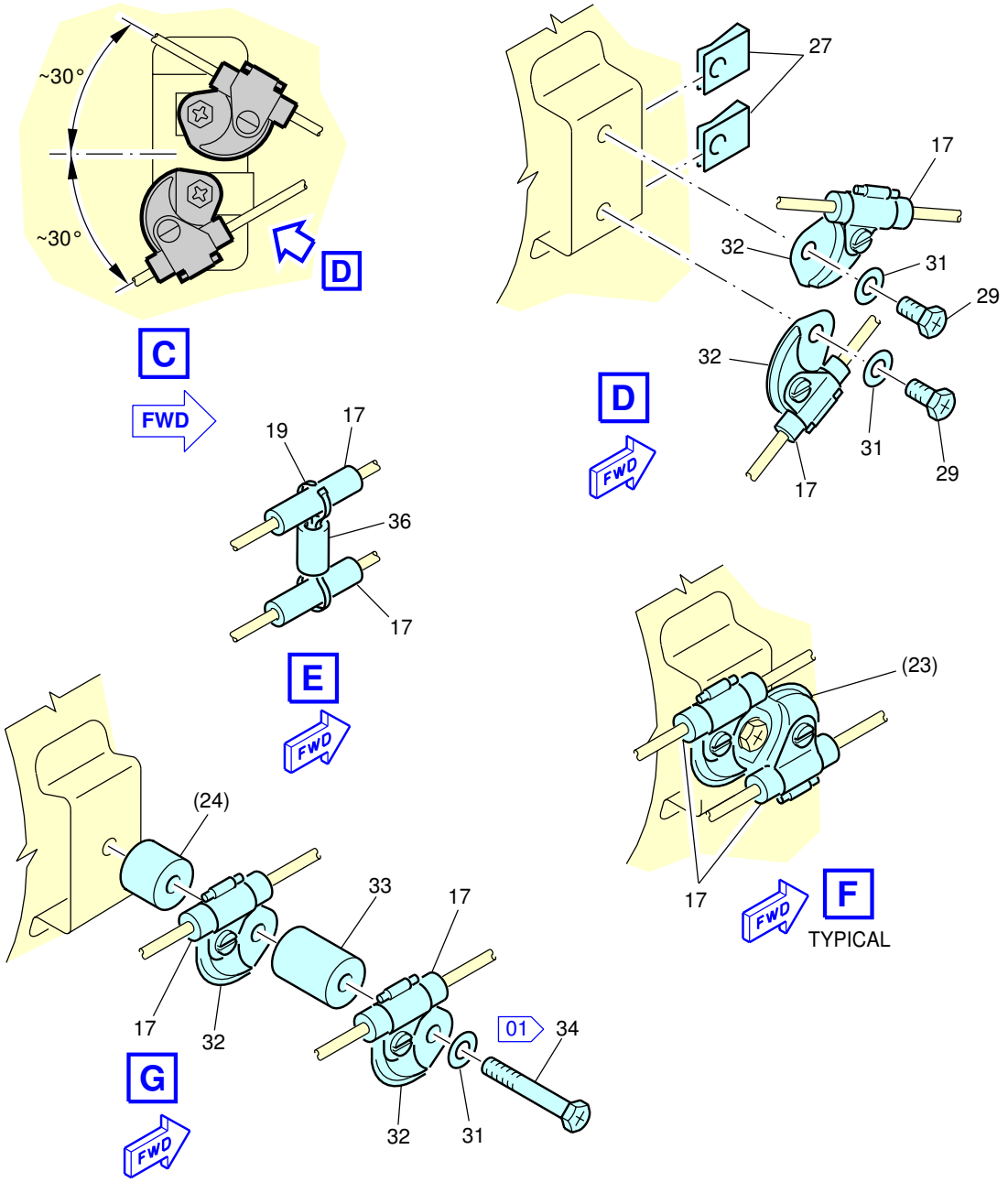


F_SB_364035_6_BDAA_02_01

Figure A-GBDAA - Sheet 02
Installation of the Sensing Element 140HF on the APU Bleed-Air-Duct

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**CONF 001, 004



NOTE:

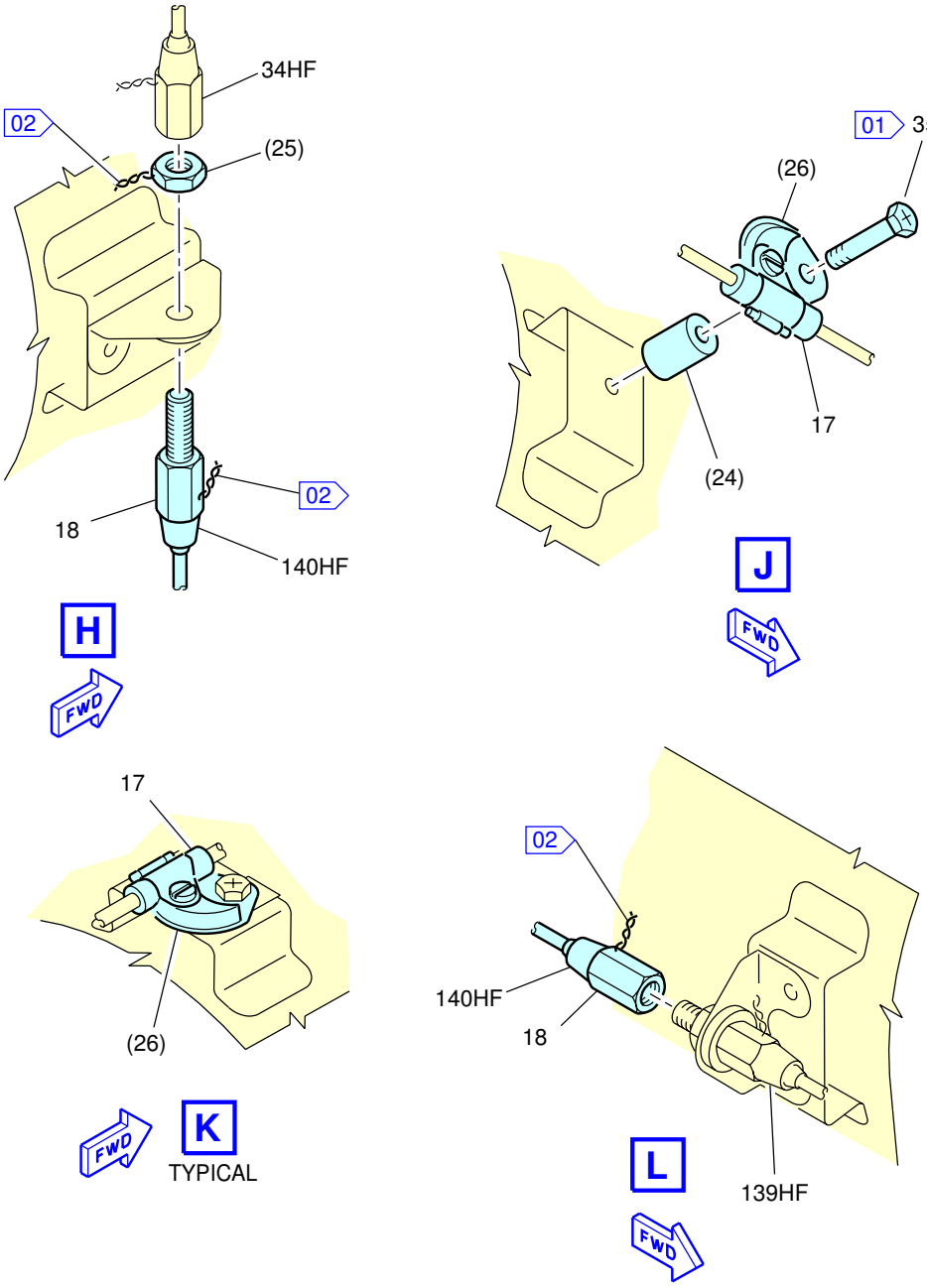
01 TORQUE VALUE 0.40m.daN (35.403lbf.in)

F_SB_364035_6_BDAA_03_01

Figure A-GBDAA - Sheet 03
Installation of the Sensing Element 140HF on the APU Bleed-Air-Duct

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****CONF 001, 004**



NOTE:

01 TORQUE VALUE 0.40m.daN (35.403lbf.in)

02 SAFETY WITH LOCKWIRE (MAT. NO. 19–018)

F_SB_364035_6_BDAA_04_00

Figure A-GBDAA - Sheet 04
Installation of the Sensing Element 140HF on the APU Bleed-Air-Duct

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****CONF 001, 004**

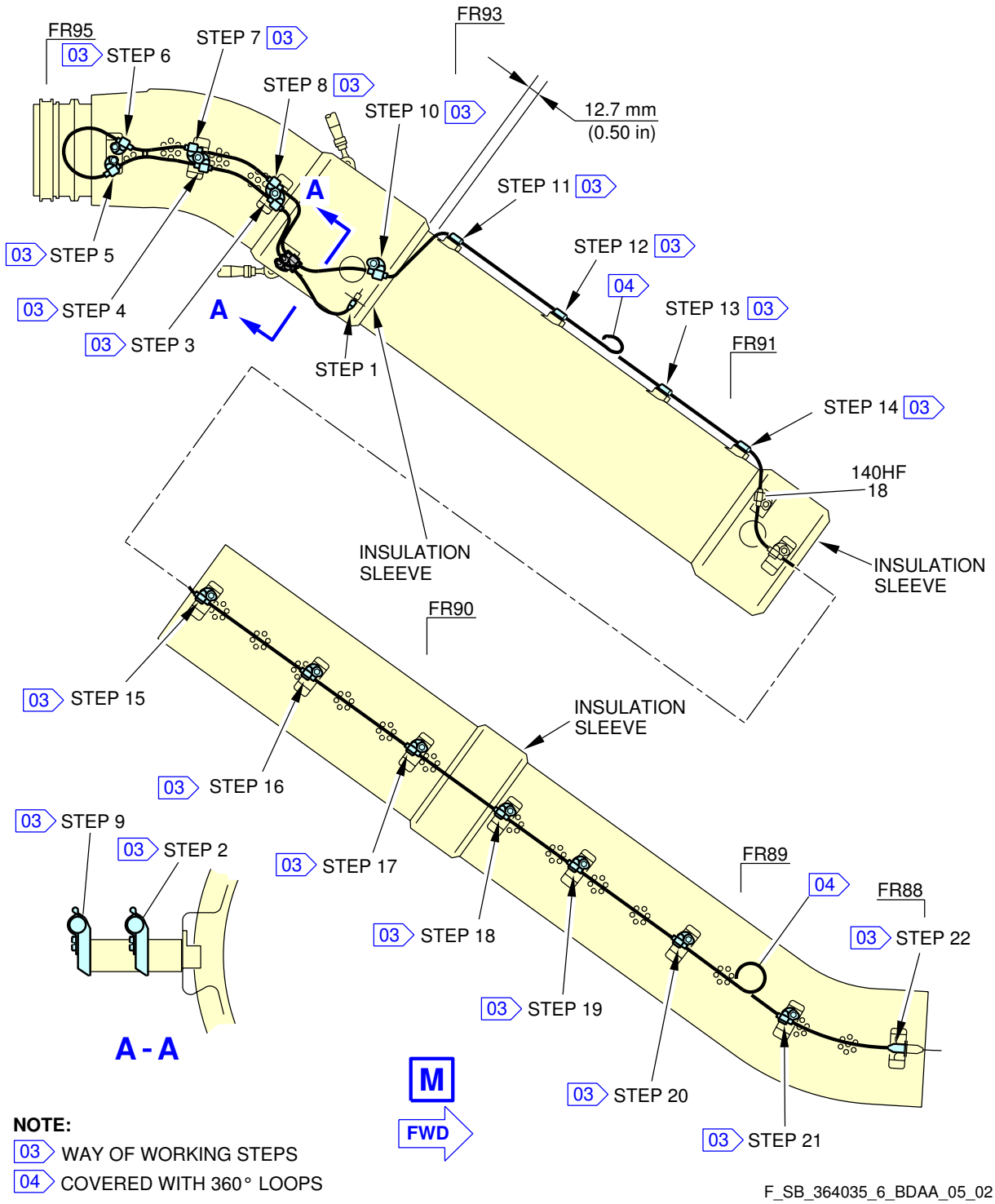
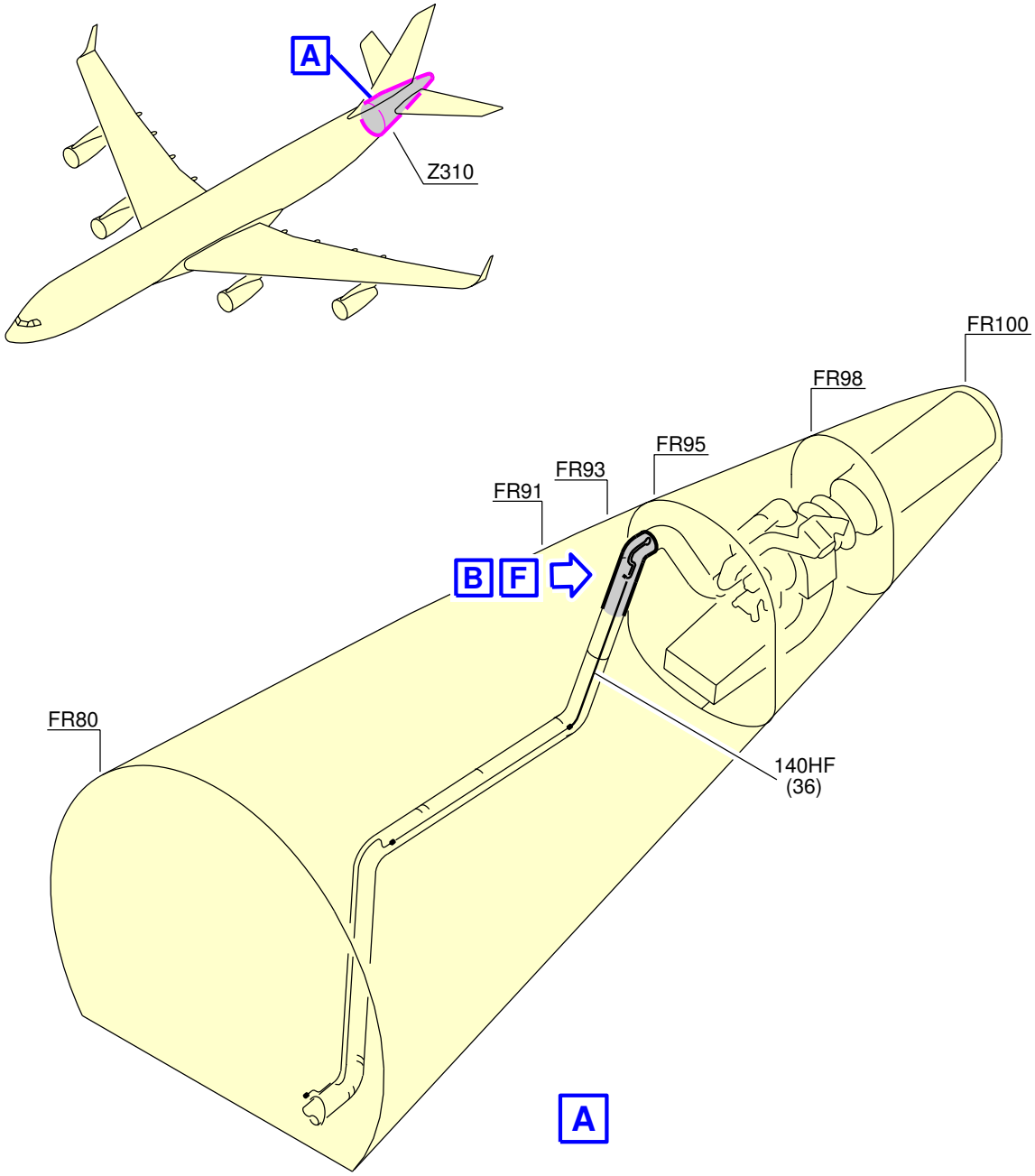


Figure A-GBDAA - Sheet 05
Installation of the Sensing Element 140HF on the APU Bleed-Air-Duct

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**CONF 002 thru 003, 005

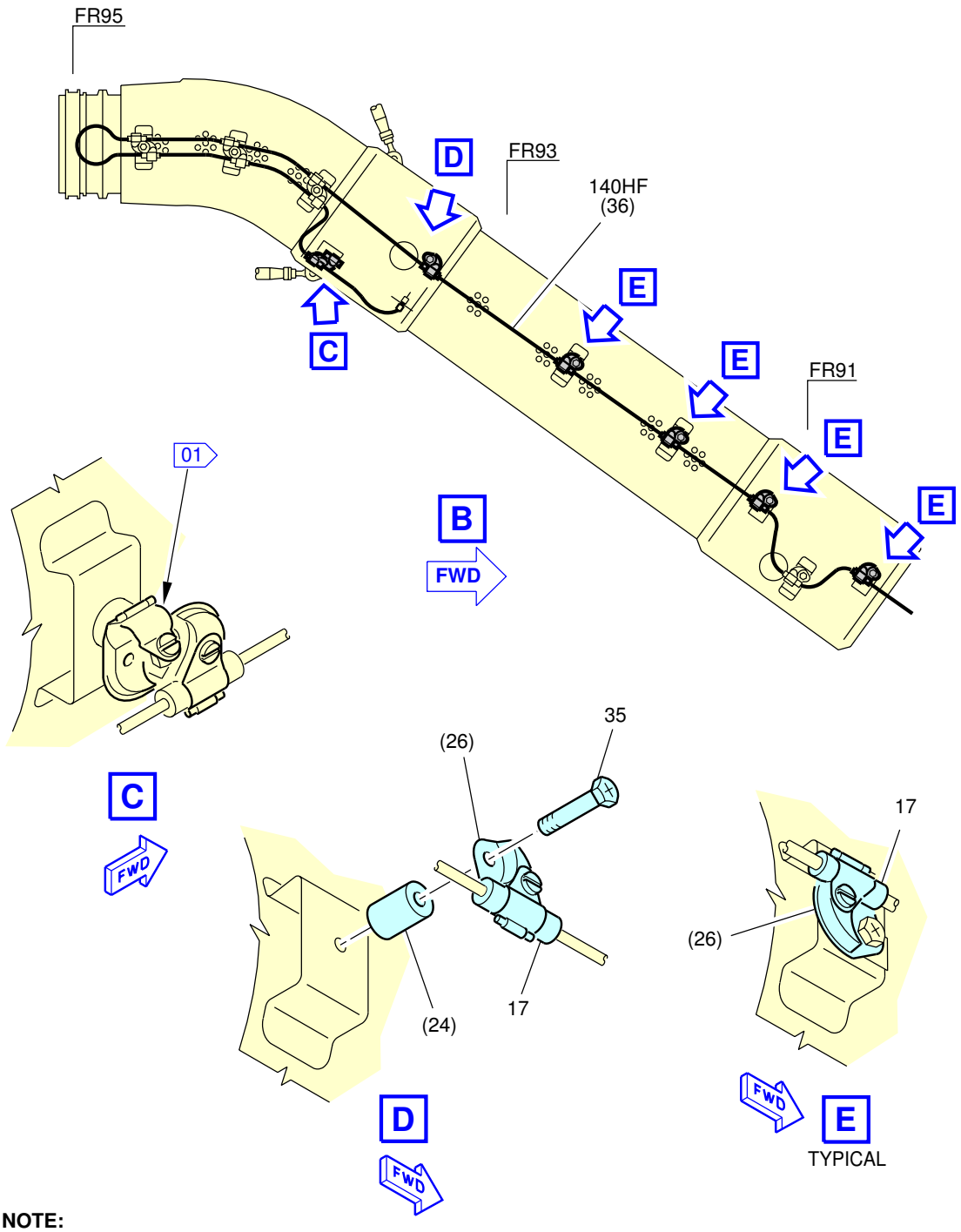


F_SB_364035_6_BDAB_01_02

Figure A-GBDAB - Sheet 01
Rerouting of the Sensing Element 140HF on the APU Bleed-Air-Duct

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****CONF 002 thru 003, 005**



NOTE:

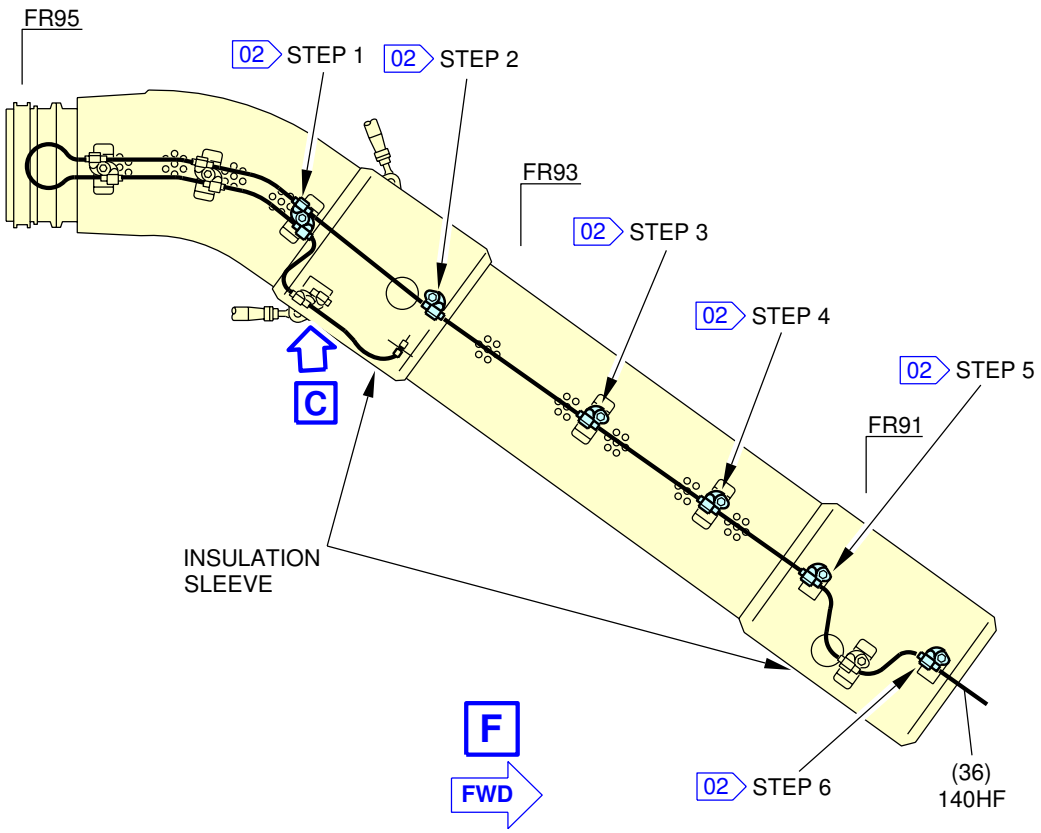
01 CLOSE THIS CLAMP

F_SB_364035_6_BDAB_02_01

Figure A-GBDAB - Sheet 02
Rerouting of the Sensing Element 140HF on the APU Bleed-Air-Duct

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**CONF 002 thru 003, 005



NOTE:
02 WAY OF WORKING STEPS

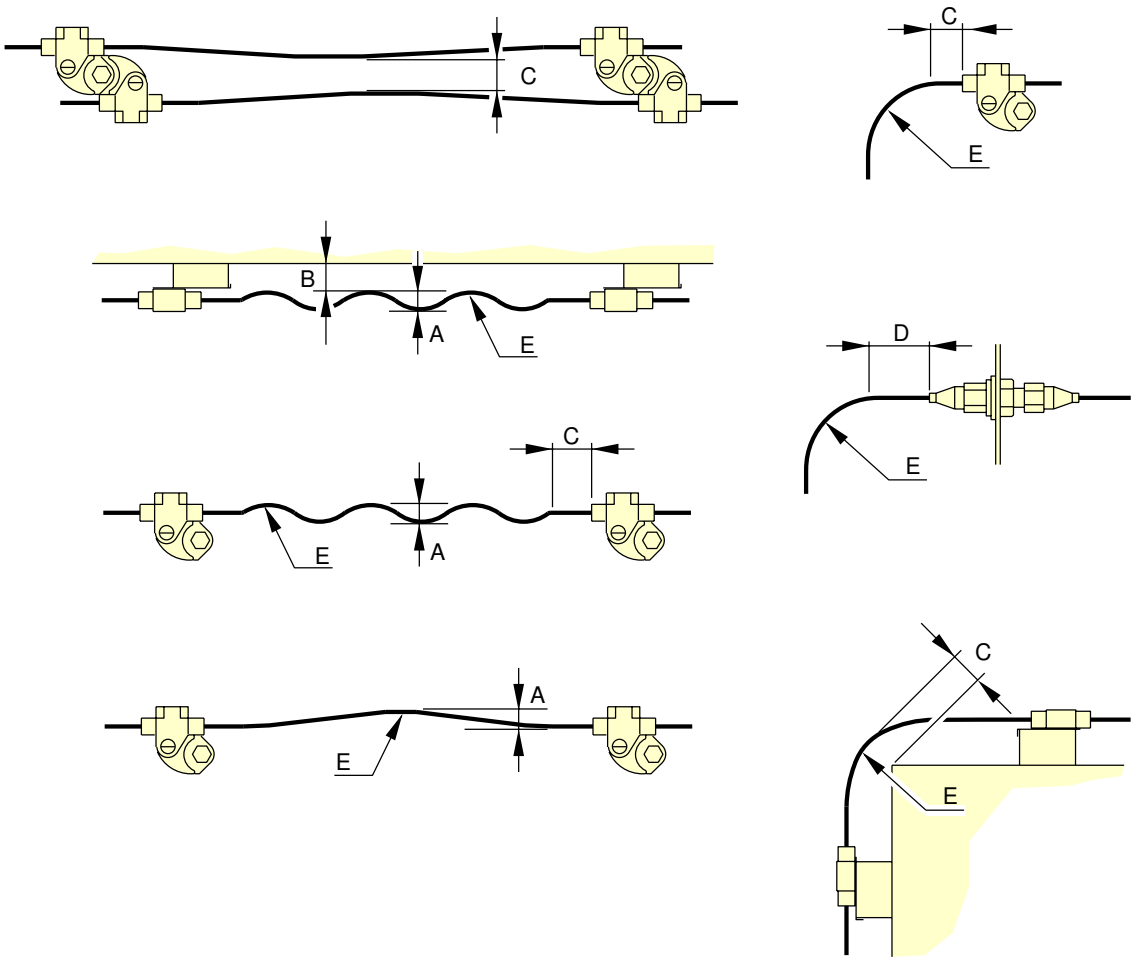
F_SB_364035_6_BDAB_03_01

Figure A-GBDAB - Sheet 03
Rerouting of the Sensing Element 140HF on the APU Bleed-Air-Duct

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**CONF ALL

TOLERANCES FOR WAVINESS AND BEND IN WIRES



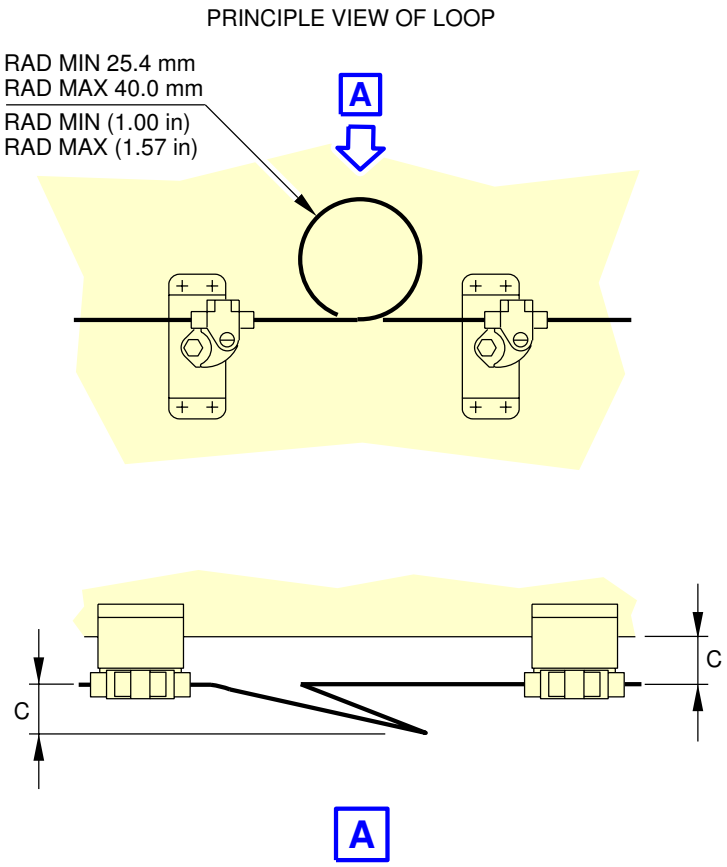
NOTE:
FOR DIMENSIONS, REFER TO SHEET 2

F_SB_364035_6_BEAA_01_00

Figure A-GBEAA - Sheet 01
Tolerances for Waviness and Bends in Sensing Elements

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**CONF ALL



DIMENSIONS		
	mm	(in)
A	MAX 6.4	MAX 0.25
B	9.52	0.38
C	MIN 12.7	MIN 0.50
D	MIN 25.4	MIN 1.00
E	MIN R 25.4	MIN R 1.00
F	MAX 203.0	MAX 7.99

F_SB_364035_6_BEAA_02_00

Figure A-GBEAA - Sheet 02
Tolerances for Waviness and Bends in Sensing Elements

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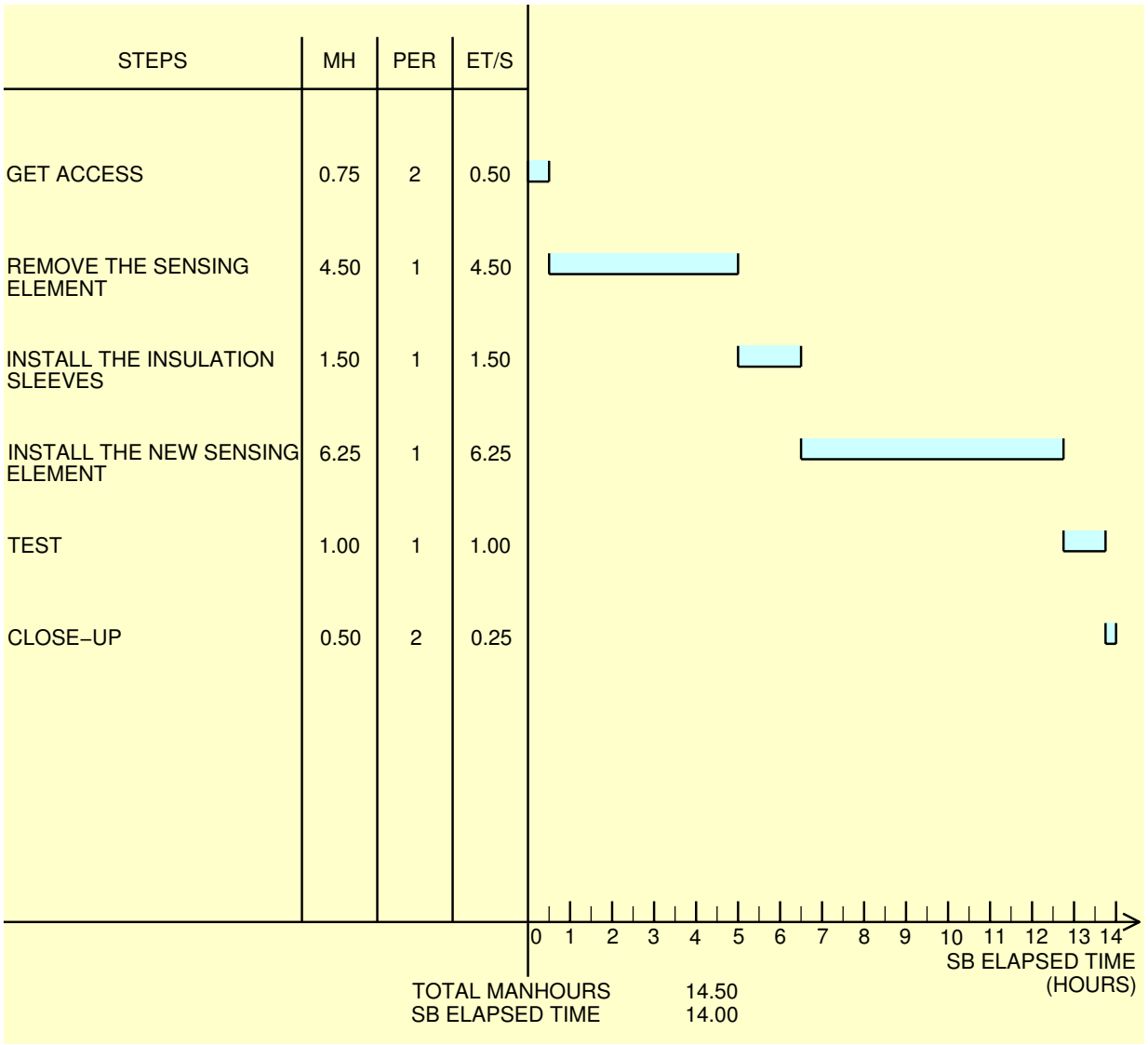
****CONF ALL**

For the elapsed time assumptions, refer to:
**CONF 001, 004 Fig. A-GAAAA
**CONF 002 thru 003, 005 Fig. A-GAAAB

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**CONF 001, 004

ELAPSED TIME ASSUMPTIONS SERVICE BULLETIN No. A340–36–4035 01 02



NOTES:

01 THIS CHART IS ONLY A PROPOSAL.
OPERATORS MAY DETERMINE THAT ANOTHER WAY TO DO THE WORK IS MORE SUITABLE FOR THEM.

02 IF A VSB IS INVOLVED, THE ASSOCIATED MANHOURS ARE NOT REFLECTED IN THIS GANTT CHART.

MH : MANHOURS
PER : NUMBER OF PERSONS
ET/S: ELAPSED TIME PER STEP

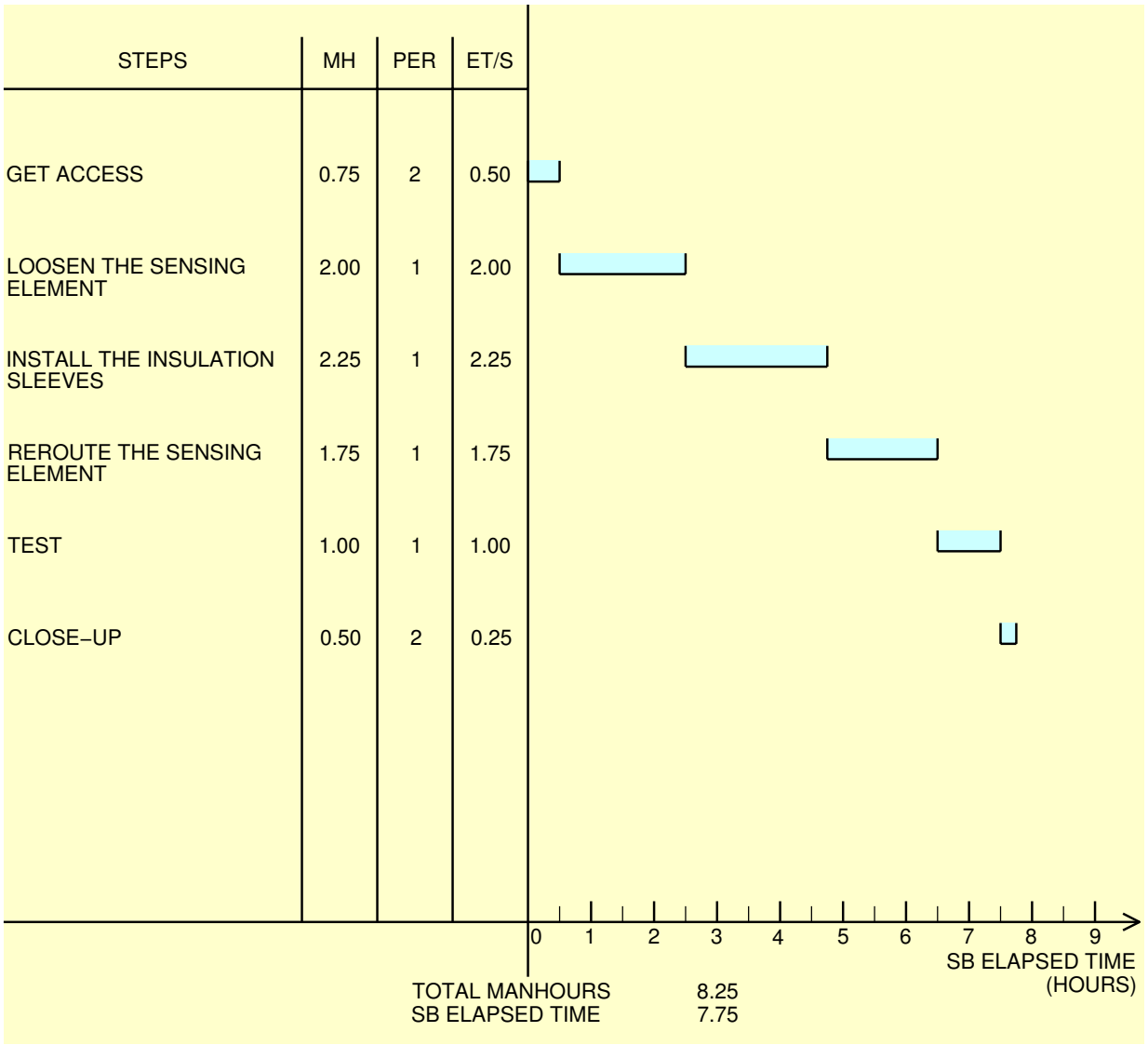
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Figure A-GAAAA - Sheet 01
Gantt Chart

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**CONF 002 thru 003, 005

ELAPSED TIME ASSUMPTIONS SERVICE BULLETIN No. A340–36–4035 01 02



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F_SB_364035_6_AAAB_01_00

Figure A-GAAAB - Sheet 01
Gantt Chart

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A340

SERVICE BULLETIN
REPORTING SHEET

TITLE: PNEUMATIC - LEAK DETECTION - INTRODUCE INSULATION MUFFS IN S19.

MODIFICATION No.: 202216C10899 202216C10898 202216C10846

Please complete the appropriate item (A or B):
A - SB WILL BE embodied YES/NO (if NO please comment)
If YES, aircraft concerned (as per SB effectivity by default) and planned dates (month/year) of embodiment:

B - SB HAS BEEN embodied on aircraft:

Operator comments:

From Airline:
Name/Title:
Signature: Date:

If operational documentation is affected (see Paragraph 1.K of this SB): If information is needed prior to next normal revision or prior to SB embodiment, please indicate required service(s):
Either: Modification Operational Impact (MOI), if available YES/NO
Or : Intermediate revision YES/NO

Important Information: This SB will only be incorporated in your maintenance and operational documentation if this sheet is returned to Airbus and signed by a duly authorised representative. With the next feasible revision, this will result in

- Updating of maintenance documentation to show pre and post SB data.
- Updating of maintenance and operational documentation to show post SB data after embodiment.

If this SB requires previous or simultaneous accomplishment of other SBs, Airbus shall automatically include them in the manual revisions. Refer to SIL 00-037 for detailed information.

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SERVICE BULLETIN
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- Is this SB easy to understand ?	Y / N			

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X	Reason	X	List of Materials Operator Supplied	X	Mod/Inspection
X	Manpower	X	Industry support	X	Test
X	References	X	Re-identification	X	Close-Up
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