

SERVICE BULLETIN SUMMARY

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

MANDATORY MANDATORY

ATA SYSTEM: 27

TITLE: FLIGHT CONTROLS - FLIGHT CONTROL DATA CONCENTRATOR

(FCDC) - INTRODUCE FCDC STD L26 M25 P16 ON BASIC A/C

**CONF ALL

MODIFICATIONS

| MODIFICATION CLASSIFICATION | | | | | | |
|-----------------------------|--------------|--|--|--|--|--|
| MAJOR | 204828S32944 | | | | | |
| MINOR | None | | | | | |

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

This Service Bulletin consists in introducing new Flight Control Data Concentrator (FCDC) software Standard (STD) L26/M25/P16 which brings several improvements.

This Service Bulletin is published to enable operators of A340 with mechanical rudder control (MOD No. 49144S16279 not embodied) to apply the THALES AVIONICS Service Bulletin No. 87292337-27-035 which modifies the FCDCs.

In addition, considering pre-requisities of this Service Bulletin, its application entails:

- prior replacement of Flight Control Primary Computer (FCPC) 2K0 and 2K1 hardware by FCPC L25 standard (2K2 hardware) (refer to OIT 999.0020/16 and ISI 27.90.00045),
- prior upgrade of FWC up to L15 software standard (refer to ISI 27.90.00045),
- pin-programing and prior upgrade of SDAC up to C10 minimun software standard (refer to ISI 27.90.00045),
- change in FCPC interchangeability and mixability (refer to ISI 27.93.00007).

The new software standard can be embodied:

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- Either by replacement or reprogramming of the On Board Replaceable Modules (OBRMs)
- Or by replacement of the two FCDC units (1CE1 and 1CE2).

Accomplishment of this Service Bulletin brings the following advantages:

- FCDC capability for Stop Rudder Input Warning (SRIW) function which is expected to be mandated on A340 with mechanical rudder control (refer to ISI 27.90.00.045 for further information of SRIW function and associated pre-requistes).
- introduction of new maintenance messages related to force fighting monitoring (refer to TFU 27.95.00.045)
- new logics associated to "F/CTL LAWS REDUNDANCY LOST" ECAM warning,
- improvement of the logics associated to "USE MAN PITCH TRIM" warning (refer to TFU 27.95.00.045).

The Operational/Maintenance Consequences of this Service Bulletin are covered by the update of the affected publications detailed in 'PLANNING INFORMATION'.

GENERAL EVALUATION

| EVALUATION TABLE | | | | | | |
|----------------------|---------------|------------------------|-----|--|--|--|
| COMPLIANCE | MANDATORY (1) | CANCELS INSPECTION SB | NO | | | |
| POTENTIAL AD | YES | A/C OPERATION AFFECTED | YES | | | |
| RELIABILITY AFFECTED | NO | PAX COMFORT AFFECTED | NO | | | |
| COST SAVING | NO | LROPS AFFECTED | NO | | | |
| STRUCTURAL LIFE EXTN | NO | VENDOR SB INVOLVED | YES | | | |

NOTE (1): Service Bulletin must be accomplished.

MATERIAL PRICE INFORMATION

| MATERIAL PRICE INFORMATION TABLE | | | | | | |
|---|---|--------|------|--|--|--|
| MATERIAL SET QTY PER PRICE PER MAIN PARTS A/C A/C (USD) | | | | | | |
| Equipment BFEA01 | 1 | See SB | FCDC | | | |
| Equipment BFEA02 | 1 | See SB | OBRM | | | |

EFFECTIVITY

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

| 01V | 06Y | 14S | 15R | 26L | 31V | 36L | 39N | 41N | 65W | 68M | 74W | 78U |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 83V | 98W | ABD | AFR | AIB | ALD | ARG | AXY | BEL | BOE | CAL | D2F | DGA |
| DLH | EDW | F2I | GAF | HFM | HFY | IRC | IRM | KAC | KMF | M3R | MAU | MDG |
| MRJ | PAL | PUE | QQE | ROI | S3R | SAA | SAS | SFB | SLM | SWR | SYR | TAP |
| THT | THY | U6A | VCV | | | | | | | | | |

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CONCURRENT REQUIREMENTS

Accomplishment of this Service Bulletin requires the prior or simultaneous accomplishment of the following Service Bulletin(s):

Service Bulletin No. A340-27-4182

A340-27-4208 A340-27-4212 A340-31-4190

NOTE: Service Bulletin No. A340-27-4182 (FLIGHT CONTROLS - FLIGHT CONTROL DATA

CONCENTRATOR (FCDC) - INSTALL NEW FCDC STD L22/M21/P12 ON LR A/C).

NOTE: Service Bulletin No. A340-27-4208 (FLIGHT CONTROLS - FCPC - INSTALL FCPC L25

2K2 A340 A/C).

NOTE: Service Bulletin No. A340-27-4212 (FLIGHT CONTROLS - FCPC REPLACE THE 2K0

AND 2K1 FCPC HARDWARE BY THE 2K2 FCPC HARDWARE).

NOTE: Service Bulletin No. A340-31-4190 (FLIGHT WARNING COMPUTER (FWC) - INSTALL

L15 STD).

NOTE: Accomplish either Service Bulletin No. A340-27-4208 or A340-27-4212 as per effectivity

specified in these Service Bulletins.

REFERENCES / REPERCUSSIONS

| TFU | 27.95.00.045 |
|---------------------------|-----------------|
| OEB | None |
| AOT | None |
| SIL | None |
| ISI | 27.90.00045 |
| | 27.93.00007 |
| LINE MAINTENANCE AFFECTED | No |
| LIFE LIMIT | None |
| OTHER | OIT 999.0020/16 |

NATURE OF THE WORK

| AIRCRAFT | NO |
|-----------|-----|
| EQUIPMENT | YES |

MANPOWER

| Task 274211-831-801-001: OPTION 1 - Upgrade by Replacement of FCDCs on Aircraft | | | | |
|---|------|--|--|--|
| TOTAL MANHOURS 2.50 | | | | |
| ELAPSED TIME (HOURS) | 2.50 | | | |

| Task 274211-831-802-001: OPTION 2 - Upgrade by Replacement of FCDC OBRMs on Aircraft | | | | |
|--|--|--|--|--|
| TOTAL MANHOURS 2.50 | | | | |
| ELAPSED TIME (HOURS) 2.50 | | | | |

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| Task 274211-831-803-001: OPTION 3 - Upgrade by Reprogramming of FCDC OBRMs in accordance with VSB on Bench | | | |
|--|--|--|--|
| TOTAL MANHOURS | 2.50 | | |
| ELAPSED TIME (HOURS) | 2.50 | | |
| | | | |
| Additional manhours related to Vendor SB; refer to: | | | |
| Reprogram and re-identify the OBRMs in accordance with VSB on Bench | THALES AVS FRANCE SAS Service Bulletin No. 87292337-27-035 | | |

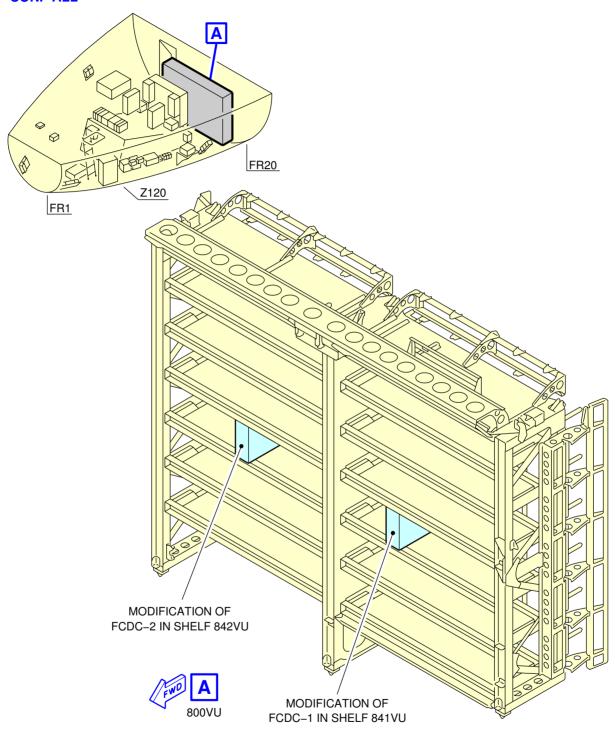
APPENDICES

Appendix 01 - Glossary

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**CONF ALL



F_SB_274211_5_SAAA_01_00

Figure A-FSAAA - Sheet 01

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MANDATORY MANDATORY

ATA SYSTEM: 27

TITLE: FLIGHT CONTROLS - FLIGHT CONTROL DATA CONCENTRATOR (FCDC) - INTRODUCE FCDC STD L26 M25 P16 ON BASIC A/C

MODIFICATION No.: 204828S32944

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1. PLANNING INFORMATION

**CONF ALL

A. <u>EFFECTIVITY</u>

NOTE: This Service Bulletin is not applicable to aircraft on which MOD No.

49144S16279 (FLIGHT CONTROLS - ELECTRICAL FLIGHT CONTROL SYSTEM (EFCS) - INSTALL RUDDER FLY-BY WIRE ON A330/A340) is

embodied.

<u>NOTE</u>: This modification is applicable by Service Bulletin only.

(1) Models

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

(2) Effectivity by MSN

0002 0004 0009 0014 0020 0022 0026 0029 0031 0038 0041 0043-0044 0046-0047 0051 0056 0058 0061 0063 0074-0076 0078-0081 0084 0089-0091 0093-0094 0101 0104 0114-0115 0117 0123 0125-0126 0128 0134-0135 0139 0145-0146 0149 0151-0152 0156 0158-0159 0163-0164 0166-0168 0170 0174-0175 0178-0180 0185-0186 0190 0192-0194 0197 0199 0201-0202 0204 0207-0208 0210 0212-0215 0217 0221 0233 0236-0237 0242-0243 0245-0246 0252 0257 0260 0264 0268 0270 0274 0278 0280 0282 0292 0297 0302 0304 0307 0310 0318-0319 0321 0325 0327 0329 0331-0332 0335 0347 0352 0354-0355 0367 0373-0374 0377-0379 0381 0385

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0387 0390 0395 0399 0402 0406 0411 0413 0415 0424 0430 0433-0435 0438 0446-0447 0450 0459 0467 0470 0474 0483 0528 0538 0541 0545-0546 0554 0556 0559 0561-0562

(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 |
|----------|---|
| 01V | 0146 |
| 06Y | 0139 0149 |
| 14S | 0058 0152 0402 0411 0415 |
| 15R | 0151 |
| 26L | 0125 0134 0145 0217 0221 0329 |
| 31V | 0093 |
| 36L | 0406 |
| 39N | 0168 0174 |
| 41N | 0009 |
| 65W | 0029 0208 |
| 68M | 0078 0377 |
| 74W | 0047 0051 |
| 78U | 0175 0179 |
| 83V | 0280 |
| 98W | 0014 0022 |
| ABD | 0210 |
| AFR | 0186 0207 0245 0246 0260 |
| AIB | 0192 0243 0264 |
| ALD | 0156 0159 0178 |
| ARG | 0063 0074 0080 0123 0126 0170 0193 |
| AXY | 0374 |
| BEL | 0335 0354 |
| BOE | 0554 |
| CAL | 0433 0541 |
| D2F | 0128 |
| DGA | 0075 0081 |
| DLH | 0135 0158 0213 0233 0252 0297 0304 0321 0325 0327 0347 0352 |
| | 0379 0390 0434 0447 |
| EDW | 0556 0559 0561 0562 |
| F2I | 0038 0043 0084 0094 0114 0117 0214 0237 0302 0307 0310 |
| GAF | 0274 0355 |
| HFM | 0163 0166 0185 0236 0367 0483 |
| HFY | 0190 0202 |
| IRC | 0002 |
| IRM | 0020 0056 0164 0282 0292 |
| KAC | 0089 0090 0101 0104 |

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| OPERATOR | MSN |
|----------|---|
| KMF | 0278 0318 0387 |
| M3R | 0061 |
| MAU | 0076 0194 0268 |
| MDG | 0319 |
| MRJ | 0257 |
| PAL | 0332 0474 |
| PUE | 0212 0215 0399 0459 |
| QQE | 0026 0528 |
| ROI | 0199 0201 |
| S3R | 0004 0204 |
| SAA | 0197 0378 |
| SAS | 0167 0413 0424 0430 0435 0450 0467 0470 |
| SFB | 0046 |
| SLM | 0242 |
| SWR | 0538 0545 0546 |
| SYR | 0381 |
| TAP | 0041 0044 0079 0091 |
| THT | 0385 0438 0446 |
| THY | 0115 0180 0270 0331 |
| U6A | 0373 0395 |
| VCV | 0031 |

(4) Configuration by MSN

| MSN | CONFIGURATION |
|--|---------------|
| 0002 0004 0009 0014 0020 0022 0026 0029 0031 0038 0041 | 001 |
| 0043 0044 0046 0047 0051 0056 0058 0061 0063 0074 0075 | |
| 0076 0078 0079 0080 0081 0084 0089 0090 0091 0093 0094 | |
| 0101 0104 0114 0115 0117 0123 0125 0126 0128 0134 0135 | |
| 0139 0145 0146 0149 0151 0152 0156 0158 0159 0163 0164 | |
| 0166 0167 0168 0170 0174 0175 0178 0179 0180 0185 0186 | |
| 0190 0192 0193 0194 0197 0199 0201 0202 0204 0207 0208 | |
| 0210 0212 0213 0214 0215 0217 0221 0233 0236 0237 0242 | |
| 0243 0245 0246 0252 0257 0260 0264 0268 0270 0274 0278 | |
| 0280 0282 0292 0297 0302 0304 0307 0310 0318 0319 0321 | |
| 0325 0327 0329 0331 0332 0335 0347 0352 0354 0355 0367 | |
| 0373 0374 0377 0378 0379 0381 0385 0387 0390 0395 0399 | |
| 0402 0406 0411 0413 0415 0424 0430 0433 0434 0435 0438 | |
| 0446 0447 0450 0459 0467 0470 0474 0483 0528 0538 0541 | |
| 0545 0546 0554 0556 0559 0561 0562 | |

(5) Configuration definition

**CONF 001

Config. 001 is valid for all the aircraft given in the effectivity of this Service Bulletin as a standard configuration.

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(6) Material Effectivity

| MATERIAL | QTY PER A/C | SEE NOTES |
|-------------------------------|-------------|-----------|
| Equipment BFEA01 | 1 | (1) |
| Equipment BFEA02 | 1 | (2) |
| Reidentified part set REIDA01 | 1 | (3) |
| Reidentified part set REIDA02 | 1 | (4) |

NOTE (1): Equipment BFEA01 is applicable to TASK 274211-831-801 001 OPTION

1 - Upgrade by Replacement of FCDCs on Aircraft .

NOTE (2): Equipment BFEA02 is applicable to TASK 274211-831-802 001 OPTION

2 - Upgrade by Replacement of FCDC OBRMs on Aircraft .

NOTE (3): Reidentified part set REIDA01 is applicable to TASK 274211-831-803

001 OPTION 3 - Upgrade by Reprogramming of FCDC OBRMs in

accordance with VSB on Bench.

NOTE (4): Reidentified part set REIDA02 is applicable to TASK 274211-831-802

001 OPTION 2 - Upgrade by Replacement of FCDC OBRMs on Aircraft .

B. CONCURRENT REQUIREMENTS

Accomplishment of this Service Bulletin requires the prior or simultaneous accomplishment of the following Service Bulletin(s):

Service Bulletin No. A340-27-4182

A340-27-4208 A340-27-4212 A340-31-4190

NOTE: Service Bulletin No. A340-27-4182 (FLIGHT CONTROLS - FLIGHT

CONTROL DATA CONCENTRATOR (FCDC) - INSTALL NEW FCDC STD

L22/M21/P12 ON LR A/C).

NOTE: Service Bulletin No. A340-27-4208 (FLIGHT CONTROLS - FCPC - INSTALL

FCPC L25 2K2 A340 A/C).

NOTE: Service Bulletin No. A340-27-4212 (FLIGHT CONTROLS - FCPC REPLACE

THE 2K0 AND 2K1 FCPC HARDWARE BY THE 2K2 FCPC HARDWARE).

NOTE: Service Bulletin No. A340-31-4190 (FLIGHT WARNING COMPUTER (FWC) -

INSTALL L15 STD).

NOTE: Accomplish either Service Bulletin No. A340-27-4208 or A340-27-4212 as per

effectivity specified in these Service Bulletins.

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C. REASON

(1) History

This Service Bulletin consists in introducing new Flight Control Data Concentrator (FCDC) software Standard (STD) L26/M25/P16 which brings several improvements.

(2) Objective/Action

This Service Bulletin is published to enable operators of A340 with mechanical rudder control (MOD No. 49144S16279 not embodied) to apply the THALES AVIONICS Service Bulletin No. 87292337-27-035 which modifies the FCDCs.

In addition, considering pre-requisities of this Service Bulletin, its application entails:

- prior replacement of Flight Control Primary Computer (FCPC) 2K0 and 2K1 hardware by FCPC L25 standard (2K2 hardware) (refer to OIT 999.0020/16 and ISI 27.90.00045),
- prior upgrade of FWC up to L15 software standard (refer to ISI 27.90.00045),
- pin-programing and prior upgrade of SDAC up to C10 minimun software standard (refer to ISI 27.90.00045),
- change in FCPC interchangeability and mixability (refer to ISI 27.93.00007).

The new software standard can be embodied:

- Either by replacement or reprogramming of the On Board Replaceable Modules (OBRMs)
- Or by replacement of the two FCDC units (1CE1 and 1CE2).

(3) Advantages

Accomplishment of this Service Bulletin brings the following advantages:

- FCDC capability for Stop Rudder Input Warning (SRIW) function which is expected to be mandated on A340 with mechanical rudder control (refer to ISI 27.90.00.045 for further information of SRIW function and associated pre-requistes).
- introduction of new maintenance messages related to force fighting monitoring (refer to TFU 27.95.00.045)
- new logics associated to "F/CTL LAWS REDUNDANCY LOST" ECAM warning,
- improvement of the logics associated to "USE MAN PITCH TRIM" warning (refer to TFU 27.95.00.045).

(4) Operational/Maintenance Consequences

The Operational/Maintenance Consequences of this Service Bulletin are covered by the update of the affected publications detailed in 'PLANNING INFORMATION'.

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D. DESCRIPTION

NOTE: To accomplish this Service Bulletin, you have three options.

To accomplish this Service Bulletin it is necessary to :

Task 274211-831-801-001: OPTION 1 - Upgrade by Replacement of FCDCs on Aircraft

(1) Replace the FCDCs (1CE1 and 1CE2) in the Electronics Rack 800VU

Task 274211-831-802-001: OPTION 2 - Upgrade by Replacement of FCDC OBRMs on Aircraft

- (1) Replace the OBRMs
- (2) Re-identify the two FCDCs (1CE1 and 1CE2)

Task 274211-831-803-001: OPTION 3 - Upgrade by Reprogramming of FCDC OBRMs in accordance with VSB on Bench

- (1) Remove the OBRMs
- (2) Reprogram and re-identify the OBRMs in accordance with VSB on Bench
- (3) Install the OBRMs
- (4) Re-identify the two FCDCs (1CE1 and 1CE2)

E. COMPLIANCE

(1) Classification

MANDATORY: Service Bulletin must be accomplished.

(2) Accomplishment Timescale

This Service Bulletin has been classified Mandatory. Accomplishment of this Service Bulletin must be done within 4 years after issuance of this Service Bulletin. It is expected that an Airworthiness Directive (AD) published by the European Aviation Safety Agency (EASA) will be issued to confirm this classification. It is anticipated that the AD will confirm the thresholds given but reference should be made to the AD for confirmation of the mandated accomplishment timescale.

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.

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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.

| Task 274211-831-801-001: OPTION 1 - Upgrade by Replacement of FCDCs on Aircraft | | | | |
|---|------|--|--|--|
| Get Access | 0.50 | | | |
| On Aircraft | | | | |
| Replace the FCDCs (1CE1 and 1CE2) in the Electronics Rack 800VU | 1.00 | | | |
| Tests | 0.50 | | | |
| Close-Up | 0.50 | | | |
| TOTAL MANHOURS | 2.50 | | | |
| ELAPSED TIME (HOURS) | 2.50 | | | |

| Task 274211-831-802-001: OPTION 2 - Upgrade by Replacement of FCDC OBRMs on Aircraft | | | | |
|--|------|--|--|--|
| Get Access | 0.50 | | | |
| On Aircraft | | | | |
| Replace the OBRMs | 0.50 | | | |
| Re-identify the two FCDCs (1CE1 and 1CE2) | 0.50 | | | |
| Tests | 0.50 | | | |
| Close-Up | 0.50 | | | |
| TOTAL MANHOURS | 2.50 | | | |
| ELAPSED TIME (HOURS) | 2.50 | | | |

| Task 274211-831-803-001: OPTION 3 - Upgrade by Reprogramming of FCDC OBRMs in accordance with VSB on Bench | | | | | |
|--|--|--|--|--|--|
| Get Access | 0.50 | | | | |
| On Aircraft | | | | | |
| Remove the OBRMs | 0.25 | | | | |
| Install the OBRMs | 0.25 | | | | |
| Re-identify the two FCDCs (1CE1 and 1CE2) | 0.50 | | | | |
| Tests | 0.50 | | | | |
| Close-Up | 0.50 | | | | |
| TOTAL MANHOURS | 2.50 | | | | |
| ELAPSED TIME (HOURS) | 2.50 | | | | |
| | | | | | |
| Additional manhours related to Vendor SB; refer to: | | | | | |
| Reprogram and re-identify the OBRMs in accordance with VSB on Bench | THALES AVS FRANCE SAS Service Bulletin No. 87292337-27-035 | | | | |

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H. WEIGHT AND BALANCE

Not Changed

I. ELECTRICAL LOAD DATA

Not Changed

J. REFERENCES

| Aircraft Maintenance Manual (AMM) | 20-15-00 | 06-31-53 20-16-00 27-96-00 | 12-34-24 24-00-00 45-10-00 |
|---|--|----------------------------------|----------------------------------|
| ATA Common Support Data Dictionary (CSDD), Chapter 2 | | | |
| Elec. Std. Practices Manual (ESPM) | 20-55-00 | | |
| Service Bulletin (SB) | A340-27-418 A340-27-420 A340-27-421 A340-31-419 |)8 12 | |
| Vendor Service Bulletin (VSB) | THALES AV Service Bulle 87292337-27 | etin No. | SAS |

K. PUBLICATION AFFECTED

| Flight Crew Operating Manual (FCOM) | | | |
|-------------------------------------|----------|----------|----------|
| Flight Manual (FM) | | | |
| Illustrated Parts Catalog (IPC) | 27-93-34 | 27-95-34 | |
| Trouble Shooting Manual (TSM) | 27-10-00 | 27-93-00 | 27-94-00 |
| | 27-95-00 | | |

This Service Bulletin has an impact on flight operations documentation. Refer to ISI 00.00.00135 'Flight Operations Products' for further information on the update of affected Flight Operations Products.

Technical queries should be addressed through TechRequest on AirbusWorld using 'Technical Data/Support to report Service Bulletins' form.

L. INTERCHANGEABILITY/MIXABILITY

The interchangeability/mixability possibilities are for new or modified parts introduced by the accomplishment of this Service Bulletin.

| DESCRIPTION | OLD PART N° | NEW PART N° | INT | MIXABILITY | SEE NOTES |
|-------------|----------------|----------------|-----|------------|--------------|
| FCDC | 87292337V04L14 | 87292337V04L15 | 03 | NO | (1) |
| OBRMs | 87093732V01L14 | 87093732V01L15 | 03 | NO | (1) |

NOTE: For definitions of interchangeability codes in column INT., refer to ATA Common Support Data Dictionary (CSDD), Chapter 2.

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NOTE: Only the mixability configuration(s) and condition(s) stated in this Service

Bulletin are approved.

NOTE (1): When the old PN is removed, it may be replaced:

- with the old PN,

- with the new PN only if the complete set of old PN is replaced with a set

of new PN.

When the new PN is removed, it must be replaced with the new PN.

M. SPARES

FCDC 87292337V04L14

The parts listed here must not be installed anymore on aircraft which have accomplished this Service Bulletin or which have the equivalent production modification embodied.

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2. MATERIAL INFORMATION

**CONF ALL

A. MATERIAL - PRICE AND AVAILABILITY

(1) Procurement Addresses

Vendor parts are to be procured from:

| Equipment BFEA01 | THALES AVS FRANCE SAS |
|------------------|-------------------------------------|
| Equipment BFEA02 | 105, avenue du General Eisenhower |
| | BP 63647 |
| | 31036 TOULOUSE CEDEX 1 |
| | FRANCE |
| | Tel: +33 5 61 19 76 95 |
| | Fax: +33 5 61 19 68 20 |
| | E-mail: retrofit@fr.thalesgroup.com |

(2) Price and Availability

Equipment BFEA01

For option 1: Procurement terms for the equipment must be negotiated with the equipment supplier.

Equipment BFEA02

For option 2: Procurement terms for the equipment must be negotiated with the equipment supplier.

Reidentified part set REIDA01

For option 3: Refer to the THALES AVS FRANCE SAS Service Bulletin No. 87292337-27-035 for the equipment modification sales terms.

B. <u>INDUSTRY SUPPORT INFORMATION</u>

This Service Bulletin is the subject of an AIRBUS monitored retrofit campaign.

For the organization of this retrofit, you are kindly requested to contact AIRBUS retrofit management department: monitored.retrofit@airbus.com.

For option 1: Industry support terms for the equipment must be negotiated with the equipment supplier.

For option 2: Industry support terms for the equipment must be negotiated with the equipment supplier.

For option 3: Modification of removed equipment should be negotiated directly with THALES AVS FRANCE SAS as per instructions given in Service Bulletin No. 87292337-27-035.

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Refer to the THALES AVS FRANCE SAS Service Bulletin No. 87292337-27-035 for the industry support terms of the Vendor Service Bulletin parts and labor.

C. LIST OF COMPONENTS

No Kit

D. LIST OF MATERIALS - OPERATOR SUPPLIED

(1) Consumable Materials

None

(2) Components

None

(3) Equipment

Equipment BFEA01

| ITEM | NEW PART N° | QTY (UM) | KEYWORD | ITEM | OLD PART N° | INT | SEE NOTES |
|------|----------------|----------|---------|------|----------------|-----|--------------|
| | 87292337V04L15 | 2 | FCDC | | 87292337V04L14 | 03 | |

NOTE: For definitions of interchangeability codes in column INT., refer to ATA

Common Support Data Dictionary (CSDD), Chapter 2.

NOTE: The above list of components is not an AIRBUS Kit, the required parts

shall be ordered as necessary through the given channel.

Equipment BFEA02

| ITEM | NEW PART N° | QTY (UM) | KEYWORD | ITEM | OLD PART N° | INT | SEE NOTES |
|------|----------------|----------|---------|------|----------------|-----|--------------|
| | 87093732V01L15 | 2 | OBRM | | 87093732V01L14 | 03 | |

NOTE: For definitions of interchangeability codes in column INT., refer to ATA

Common Support Data Dictionary (CSDD), Chapter 2.

NOTE: The above list of components is not an AIRBUS Kit, the required parts

shall be ordered as necessary through the given channel.

NOTE: The FCPC reidentification labels are supplied in equipment BFEA02.

E. PARTS TO BE RE-IDENTIFIED BY OPERATOR

Reidentified part set REIDA01

| ITEM | NEW PART N° | KEYWORD | ITEM | 0 | SEE NOTES |
|------|----------------|---------|------|----------------|--------------|
| | 87093732V01L15 | OBRM | | 87093732V01L14 | |
| | 87292337V04L15 | FCDC | | 87292337V04L14 | |

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NOTE: Parts are re-identified in accordance with the THALES AVS FRANCE SAS

Service Bulletin No. 87292337-27-035.

Reidentified part set REIDA02

| ITEM | NEW PART N° | KEYWORD | ITEM | | SEE NOTES |
|------|----------------|---------|------|----------------|--------------|
| | 87292337V04L15 | FCDC | | 87292337V04L14 | |

F. TOOLING

(1) Tooling - Price and Availability

None

(2) Tools

To accomplish TASK 274211-831-803 001 OPTION 3 - Upgrade by Reprogramming of FCDC OBRMs in accordance with VSB on Bench , it is necessary to use the tools listed in THALES AVS FRANCE SAS Service Bulletin No. 87292337-27-035.

(3) Special Tools

None

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3. ACCOMPLISHMENT INSTRUCTIONS

Task 274211-831-801-001 - OPTION 1 - Upgrade by Replacement of FCDCs on Aircraft

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.

IF THERE IS CONTAMINATION, REFER TO ESPM 20-55-00.

NOTE: The accomplishment instructions of this Service Bulletin include procedures given

in other documents or in other sections of the Service Bulletin. When the words 'refer to' are used and the operator has a procedure accepted by the local authority he belongs to, the accepted alternative procedure can be used. When the words 'in

accordance with' are used then the given procedure must be followed.

NOTE: The access and close-up instructions, not comprising return to service tests, in this

Service Bulletin do not constitute or affect the technical intent of the Service Bulletin. Operators can therefore, as deemed necessary, omit or add access and/or close-up steps to add flexibility to their maintenance operations as long as the

technical intent of the Service Bulletin is met within the set parameters.

NOTE: Manual titles given in the accomplishment instructions are referred to by acronyms.

Refer to paragraph 1.J., References, for the definition of acronyms.

NOTE: This Service Bulletin contains the instructions for the on-aircraft maintenance

necessary to ensure the continued airworthiness of the aircraft.

For any deviations to the instructions, including RC paragraph contained herein,

contact AIRBUS for further instructions and approval.

NOTE: This Service Bulletin is classified mandatory or expected to be classified mandatory

by an AD. The paragraphs 3.C. and 3.D. in these accomplishment instructions are RC and must be done to comply with the AD. To allow more flexibility, the rule "refer to" and "in accordance with" will apply to these paragraphs 3.C. and 3.D. Other paragraphs are recommended and may be deviated from, done as part of other actions or done with accepted methods different from those given in the

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Service Bulletin, as long as the RC paragraphs can be done and the aircraft can

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be put back into a serviceable condition.

NOTE: Discarded parts must be managed at the operator's discretion.

Task Associated Data

| | | Zone | |
|----------------------|--------------|------|--|
| 120 | 120 | | |
| | Modified FIN | | |
| 1CE1 1CE2 | 1CE1 1CE2 | | |
| Access | | | |
| Door | 811 | | |
| Manpower | | | |
| TOTAL MANHOURS 2.50 | | | |
| ELAPSED TIME (HOURS) | | 2.50 | |

A. **GENERAL**

(1) Subtask 274211-910-001-001 - Standard Practices

| Manpower Resource | s |
|-------------------|--------------|
| Skills | NON SPECIFIC |

| References | | |
|------------|--|--|
| ` ' | 06-20-00, Page Block 001 06-31-53, Page Block 001 | |

- (a) For the FR identification, refer to AMM 06-31-53, Page Block 001.
- (b) For the identification of zones, refer to AMM 06-20-00, Page Block 001.

(2) Subtask 274211-839-001-001 - Administrative

| Manpower Resources | |
|--------------------|--------------|
| Skills | NON SPECIFIC |

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

B. PREPARATION

(1) Subtask 274211-941-001-001 - Job Set-up

| | Manpower Resources | |
|--------|--------------------|--|
| Skills | NON SPECIFIC | |

| References | | |
|-----------------------------------|--|--|
| Aircraft Maintenance Manual (AMM) | Task 12-34-24-860-802 Task 27-95-34-000-801 | |
| | Task 45-10-00-860-814 | |

NOTE: For the basic Aircraft configuration, refer to AMM Chapter 'Introduction -

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Aircraft status for maintenance' in Manual Front Matter section.

- (a) Make sure that the aircraft is electrically grounded, refer to AMM Task 12-34-24-860-802.
- (b) Check appropriate FCPC pre-required configuration:

Make sure that these circuit breakers are closed:

| PANEL | DESIGNATION | FIN | LOCATION | SEE NOTES |
|-------|----------------|------|----------|--------------|
| 742VU | FCPC1 NORM | 7CE1 | C66 | |
| 742VU | FCPC1 STBY | 11CE | K67 | |
| 721VU | FCPC2 STBY | 28CE | X13 | |
| 722VU | FCPC2 NORM | 7CE2 | V41 | |
| 721VU | FCPC3 STBY COM | 7CE6 | R20 | (1) |
| 721VU | FCPC3 STBY MON | 7CE5 | R19 | (1) |
| 722VU | FCPC3 | 7CE3 | V42 | (1) |
| 722VU | FCPC3 | 7CE4 | V38 | (1) |

NOTE (1): For aircraft part of Service Bulletin No. A340-27-4158 effectivity, the location of CBs depends on associated aircraft configuration.

- Do the procedure to get access to the SYSTEM REPORT/TEST F/CTL: EFCS page, refer to AMM Task 45-10-00-860-814.

NOTE: The actions and results of this procedure occur the MCDU you use.

NOTE: This test is for system 1. For other system(s), use the indications

between the parentheses.

NOTE: You can launch this test when the EIVMU is deactivated.

| ACTION | RESULT |
|--|--|
| 1. Push the line key adjacent to the EFCS1(2) indication. | - The EFCS1(2) menu page comes into view. |
| 2. Push the line key adjacent to the LRU IDENT indication. | - The LRU IDENTIFICATION page comes into view. |

- Make sure that the PN shown on the LRU IDENTIFICATION page is LA2K2B1002C0000 for the three FCPCs 2CE1, 2CE2 and 2CE3.

NOTE: If the PN of FCPC is not the same, you must remove the concerned

FCPC and return it to the shop (refer to interchangeability conditions of pre-requisite Service Bulletin No. A340-27-4208 or

Service Bulletin No. A340-27-4212).

(c) Do the job set-up procedure as specified in the removal of the FCDC (FINs 1CE1 and 1CE2), refer to AMM Task 27-95-34-000-801.

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C. PROCEDURE

(1) Subtask 274211-960-001-001 - Replace the FCDCs (1CE1 and 1CE2) in the Electronics Rack 800VU

| Work Zones and Access Panels | | | |
|------------------------------|---------------------------|---------------|------------------------|
| | Zone Access/Work location | | |
| | 120 | Access | Door 811 |
| | | Work location | Electrical panel 800VU |

| Manpower Resources | | |
|--------------------------|--------------|--|
| Manhours | 1.00 | |
| Minimum number of person | 1 | |
| Subtask elapsed time | 1.00 | |
| Skills | NON SPECIFIC | |

Material necessary to do the job

| Equip | ment BFEA01 | | | |
|-------|----------------|----------|---------|--------------|
| ITEM | NEW PART N° | QTY (UM) | KEYWORD | SEE NOTES |
| | 87292337V04L15 | 2 | FCDC | |

NOTE:

The above list of components is not an AIRBUS Kit, the required parts shall be ordered as necessary through the given channel.

| References | | |
|-----------------------------------|-----------------------|--|
| Aircraft Maintenance Manual (AMM) | Task 27-95-34-000-801 | |
| | Task 27-95-34-400-801 | |

(a) Remove the FCDC (FINs 1CE1 and 1CE2), refer to AMM Task 27-95-34-000-801:

FIN 1CE1

1 FCDC 87292337V04L14 Discard

and

FIN 1CE2

1 FCDC 87292337V04L14 Discard

(b) Install the FCDC (FINs 1CE1 and 1CE2), refer to AMM Task 27-95-34-400-801:

FIN 1CE1

1 FCDC 87292337V04L15

and

FIN 1CE2

1 FCDC 87292337V04L15

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D. TEST

(1) Subtask 274211-700-001-001 - Test

| Manpower Resources | |
|--------------------|--------------|
| Skills | NON SPECIFIC |

| References | | |
|-----------------------------------|-----------------------|--|
| Aircraft Maintenance Manual (AMM) | Task 27-95-34-400-801 | |

- (a) Job Set-up:
 - 1 Remove the safety clips and tags and close the circuit breakers as specified after the installation of the FCDC (FINs 1CE1 and 1CE2), refer to AMM Task 27-95-34-400-801.
- (b) Procedure:

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<u>1</u> Do the test procedure as specified after the installation of the FCDC (FINs 1CE1 and 1CE2), refer to AMM Task 27-95-34-400-801.

E. CLOSE-UP

(1) Subtask 274211-942-001-001 - Close-up

| Manpower Resources | |
|--------------------|--------------|
| Skills | NON SPECIFIC |

| References | | |
|-----------------------------------|-----------------------|--|
| Aircraft Maintenance Manual (AMM) | Task 27-95-34-400-801 | |

- (a) Make sure that the work areas are clean and clear of tools and other items of equipment.
- (b) Do the close-up procedure as specified in the installation of the FCDC (FINs 1CE1 and 1CE2), refer to AMM Task 27-95-34-400-801.
- (c) Put the aircraft back to its initial configuration.

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Task 274211-831-802-001 - OPTION 2 - Upgrade by Replacement of FCDC OBRMs on Aircraft

WARNING: MAKE SURE THAT YOU OBEY ALL THE WARNINGS AND ALL THE CAUTIONS

INCLUDED IN THE REFERENCED PROCEDURES.

<u>CAUTION</u>: 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.

IF THERE IS CONTAMINATION, REFER TO ESPM 20-55-00.

CAUTION: REFER TO AMM 20-15-00, PAGE BLOCK 201 FOR ELECTROSTATIC

DISCHARGE PRECAUTIONS.

NOTE: The accomplishment instructions of this Service Bulletin include procedures given

in other documents or in other sections of the Service Bulletin. When the words 'refer to' are used and the operator has a procedure accepted by the local authority he belongs to, the accepted alternative procedure can be used. When the words 'in

accordance with' are used then the given procedure must be followed.

NOTE: The access and close-up instructions, not comprising return to service tests, in this

Service Bulletin do not constitute or affect the technical intent of the Service Bulletin. Operators can therefore, as deemed necessary, omit or add access and/or close-up steps to add flexibility to their maintenance operations as long as the

technical intent of the Service Bulletin is met within the set parameters.

<u>NOTE</u>: Manual titles given in the accomplishment instructions are referred to by acronyms.

Refer to paragraph 1.J., References, for the definition of acronyms.

NOTE: This Service Bulletin contains the instructions for the on-aircraft maintenance

necessary to ensure the continued airworthiness of the aircraft.

For any deviations to the instructions, including RC paragraph contained herein,

contact AIRBUS for further instructions and approval.

NOTE: This Service Bulletin is classified mandatory or expected to be classified mandatory

by an AD. The paragraphs 3.C. and 3.D. in these accomplishment instructions are RC and must be done to comply with the AD. To allow more flexibility, the rule "refer to" and "in accordance with" will apply to these paragraphs 3.C. and 3.D. Other paragraphs are recommended and may be deviated from, done as part of

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other actions or done with accepted methods different from those given in the Service Bulletin, as long as the RC paragraphs can be done and the aircraft can be put back into a serviceable condition.

NOTE: Discarded parts must be managed at the operator's discretion.

Task Associated Data

| Zone | | | |
|----------------------|--------------|------|--|
| 120 | | | |
| | Modified FIN | | |
| 1CE1 1CE2 | | | |
| Access | | | |
| Door | 811 | | |
| Manpower | | | |
| TOTAL MANHOURS 2.50 | | 2.50 | |
| ELAPSED TIME (HOURS) | | 2.50 | |

A. **GENERAL**

(1) Subtask 274211-910-002-001 - Standard Practices

| Manpower Re | esources |
|-------------|--------------|
| Skills | NON SPECIFIC |

| References | | |
|-----------------------------------|--------------------------|--|
| Aircraft Maintenance Manual (AMM) | 06-20-00, Page Block 001 | |
| | 06-31-53, Page Block 001 | |
| | Task 20-16-00-912-801 | |
| | 24-00-00, Page Block 001 | |

- (a) For the FR identification, refer to AMM 06-31-53, Page Block 001.
- (b) For the identification of zones, refer to AMM 06-20-00, Page Block 001.
- (c) For the circuit breaker location, refer to AMM 24-00-00, Page Block 001.
- (d) For circuit breaker safety practices, refer to AMM Task 20-16-00-912-801.

(2) Subtask 274211-839-002-001 - Administrative

| Manpower Resources | |
|--------------------|--------------|
| Skills | NON SPECIFIC |

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

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B. PREPARATION

(1) Subtask 274211-941-002-001 - Job Set-up

| | Manpower Resources | |
|--------|--------------------|--------------|
| Skills | | NON SPECIFIC |

| References | | |
|-----------------------------------|-----------------------|--|
| Aircraft Maintenance Manual (AMM) | Task 12-34-24-860-802 | |
| | Task 27-95-34-000-801 | |
| | Task 45-10-00-860-814 | |
| | Task 52-41-00-010-801 | |

NOTE: For the basic Aircraft configuration, refer to AMM Chapter 'Introduction - Aircraft status for maintenance' in Manual Front Matter section.

- (a) Make sure that the aircraft is electrically grounded, refer to AMM Task 12-34-24-860-802.
- (b) Check appropriate FCPC pre-required configuration:

- Make sure that these circuit breakers are closed:

| PANEL | DESIGNATION | FIN | LOCATION | SEE NOTES |
|-------|----------------|------|----------|--------------|
| 742VU | FCPC1 NORM | 7CE1 | C66 | |
| 742VU | FCPC1 STBY | 11CE | K67 | |
| 721VU | FCPC2 STBY | 28CE | X13 | |
| 722VU | FCPC2 NORM | 7CE2 | V41 | |
| 721VU | FCPC3 STBY COM | 7CE6 | R20 | (1) |
| 721VU | FCPC3 STBY MON | 7CE5 | R19 | (1) |
| 722VU | FCPC3 | 7CE3 | V42 | (1) |
| 722VU | FCPC3 | 7CE4 | V38 | (1) |

NOTE (1): For aircraft part of Service Bulletin No. A340-27-4158 effectivity, the location of CBs depends on associated aircraft configuration.

- Do the procedure to get access to the SYSTEM REPORT/TEST F/CTL: EFCS page, refer to AMM Task 45-10-00-860-814.

NOTE: The actions and results of this procedure occur the MCDU you use.

NOTE: This test is for system 1. For other system(s), use the indications

between the parentheses.

NOTE: You can launch this test when the EIVMU is deactivated.

| ACTION | RESULT |
|--|--|
| 1. Push the line key adjacent to the EFCS1(2) indication. | - The EFCS1(2) menu page comes into view. |
| 2. Push the line key adjacent to the LRU IDENT indication. | - The LRU IDENTIFICATION page comes into view. |

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- Make sure that the PN shown on the LRU IDENTIFICATION page is LA2K2B1002C0000 for the three FCPCs 2CE1, 2CE2 and 2CE3.

NOTE:

If the PN of FCPC is not the same, you must remove the concerned FCPC and return it to the shop (refer to interchangeability conditions of pre-requisite Service Bulletin No. A340-27-4208 or Service Bulletin No. A340-27-4212).

- (c) Open the avionics-compartment access door 811, refer to AMM Task 52-41-00-010-801.
- (d) Do the job set-up procedure as specified in the removal of the FCDC (FINs 1CE1 and 1CE2), refer to AMM Task 27-95-34-000-801 without the circuit breakers opening part.

NOTE:

The circuit breakers will be managed in another subtask to allow the BITE test of the Electrical Flight Control System (EFCS).

C. PROCEDURE

(1) Subtask 274211-960-002-001 - Replace the OBRMs

| Work Zones and Access Panels | | | |
|------------------------------|---------------------------|-----------------|------------------------|
| | Zone Access/Work location | | |
| | 120 | Access Door 811 | |
| | Work location | | Electrical panel 800VU |

| Manpower Resources | | | |
|--------------------------|--------------|--|--|
| Manhours | 0.50 | | |
| Minimum number of person | 1 | | |
| Subtask elapsed time | 0.50 | | |
| Skills | NON SPECIFIC | | |

| Material necessary to do the job |
|----------------------------------|
| material necessary to do the job |

| Equip | Equipment BFEA02 | | | |
|------------------|------------------|----------|---------|--------------|
| ITEM NEW PART N° | | QTY (UM) | KEYWORD | SEE NOTES |
| | 87093732V01L15 | 2 | OBRM | |

NOTE: The above list of components is not an AIRBUS Kit, the required parts

shall be ordered as necessary through the given channel.

NOTE: The FCPC reidentification labels are supplied in equipment BFEA02.

| References | | |
|-----------------------------------|-----------------------|--|
| Aircraft Maintenance Manual (AMM) | Task 27-96-00-740-807 | |

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- (a) Before replacement of the OBRMs:
 - After power-up, make sure that on the EWD, there is no ECAM warning messages related to the FCDC (FINs 1CE1 and 1CE2).
 - 2 Make sure that these circuit breakers are closed:

| PANEL | DESIGNATION | FIN | LOCATION | SEE NOTES |
|-------|-------------|------|----------|--------------|
| 742VU | FCDC 1 | 6CE1 | L76 | |
| 722VU | FCDC 2 | 6CE2 | T40 | |
| 721VU | PRINTER | 1TP | D02 | |

<u>3</u> Do the BITE test of the EFCS (LRU IDENT), refer to AMM Task 27-96-00-740-807 and make sure that the old PN of the two FCDCs (FINs 1CE1 and 1CE2) is 87292337V04L14.

NOTE: Print the LRU IDENTIFICATION page (if the printer is not

available, a visual check is acceptable).

Open, safety/lock and tag this (these) circuit breaker(s):

| PANEL | DESIGNATION | FIN | | SEE NOTES |
|-------|-------------|------|-----|--------------|
| 742VU | FCDC 1 | 6CE1 | L76 | |
| 722VU | FCDC 2 | 6CE2 | T40 | |

- (b) Replace the OBRMs on FCDC (FINs 1CE1 and 1CE2).
 - 1 Remove OBRMs:

2 OBRMs 87093732V01L14 Discard

NOTE: Some OBRMs are located behind a flap on the equipment,

open it if necessary.

2 Install OBRMs:

2 OBRMs 87093732V01L15

NOTE: Labels are attached on the OBRMs

(2) Subtask 274211-831-002-001 - Re-identify the two FCDCs (1CE1 and 1CE2)

| Work Zones and Access Panels | | | | |
|------------------------------|------|--|--|--|
| | Zone | Access/Work location | | |
| | 120 | Access Door 811 Work location Electrical panel 800VU | | |
| | | | | |

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| Manpower Resources | | | |
|--------------------------|--------------|--|--|
| Manhours | 0.50 | | |
| Minimum number of person | 1 | | |
| Subtask elapsed time | 0.50 | | |
| Skills | NON SPECIFIC | | |

Material necessary to do the job

| Reidentified part set REIDA02 | | | | | |
|---|----------------|------|--|----------------|--|
| ITEM NEW PART N° KEYWORD ITEM OLD PART N° SEE NOTES | | | | | |
| | 87292337V04L15 | FCDC | | 87292337V04L14 | |

(a) Re-identify the two FCDCs (1CE1 and 1CE2) with labels supplied in Equipment BFEA02.

FIN 1CE1

1 FCDC 87292337V04L14

becomes

FIN 1CE1

1 FCDC 87292337V04L15

and

FIN 1CE2

1 FCDC 87292337V04L14

becomes

FIN 1CE2

1 FCDC 87292337V04L15

NOTE: If necessary, the responsible Quality Inspector can put his own

sticker and his own control seal on the front face to confirm the

replacement of the OBRMs.

D. TEST

(1) Subtask 274211-700-002-001 - Test

| Manpower Resources | |
|--------------------|--------------|
| Skills | NON SPECIFIC |

| | References |
|-----------------------------------|-----------------------|
| Aircraft Maintenance Manual (AMM) | Task 27-96-00-740-801 |
| | Task 27-96-00-740-807 |

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(a) Job Set-up:

1 Remove the safety clip(s) and/or tag(s) and close/unlock this (these) circuit breaker(s):

| PANEL | DESIGNATION | FIN | LOCATION | SEE |
|-------|-------------|------|----------|-------|
| | | | | NOTES |
| 742VU | FCDC 1 | 6CE1 | L76 | |
| 722VU | FCDC 2 | 6CE2 | T40 | |

- (b) After replacement of the OBRMs:
 - After power-up, make sure that on the EWD, there is no ECAM warning messages related to the FCDC (FINs 1CE1 and 1CE2).
 - <u>2</u> Do the BITE test of the EFCS (Ground Scanning), refer to AMM Task 27-96-00-740-801 to make sure that there is no failure on the FCDC.

NOTE:

If the test shows a class 1 fault message related to a computer modified for the aircraft by the replacement of the OBRM(s) in the shop, you must:

- Remove the computer
- Return it to the shop.
- <u>3</u> Do the BITE test of the EFCS (LRU IDENT), refer to AMM Task 27-96-00-740-807 and make sure that the new PN of the two FCDCs (FINs 1CE1 and 1CE2) is 87292337V04L15.

NOTE:

Print the LRU IDENTIFICATION page (if the printer is not available, a visual check is acceptable).

E. <u>CLOSE-UP</u>

(1) Subtask 274211-942-002-001 - Close-up

| Manpower Resources | |
|--------------------|--------------|
| Skills | NON SPECIFIC |

| References | |
|-----------------------------------|-----------------------|
| Aircraft Maintenance Manual (AMM) | Task 27-95-34-400-801 |
| | Task 52-41-00-410-801 |

- (a) Make sure that the work areas are clean and clear of tools and other items of equipment.
- (b) Do the close-up procedure as specified in the installation of the FCDC (FINs 1CE1 and 1CE2), refer to AMM Task 27-95-34-400-801.
- (c) Close the avionics-compartment access door 811, refer to AMM Task 52-41-00-410-801.
- (d) Put the aircraft back to its initial configuration.

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Task 274211-831-803-001 - OPTION 3 - Upgrade by Reprogramming of FCDC OBRMs in accordance with VSB on Bench

WARNING: MAKE SURE THAT YOU OBEY ALL THE WARNINGS AND ALL THE CAUTIONS

INCLUDED IN THE REFERENCED PROCEDURES.

<u>CAUTION</u>: 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:

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- 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.

IF THERE IS CONTAMINATION, REFER TO ESPM 20-55-00.

CAUTION: REFER TO AMM 20-15-00, PAGE BLOCK 201 FOR ELECTROSTATIC

DISCHARGE PRECAUTIONS.

NOTE: The accomplishment instructions of this Service Bulletin include procedures given

in other documents or in other sections of the Service Bulletin. When the words 'refer to' are used and the operator has a procedure accepted by the local authority he belongs to, the accepted alternative procedure can be used. When the words 'in

accordance with' are used then the given procedure must be followed.

NOTE: The access and close-up instructions, not comprising return to service tests, in this

Service Bulletin do not constitute or affect the technical intent of the Service Bulletin. Operators can therefore, as deemed necessary, omit or add access and/or close-up steps to add flexibility to their maintenance operations as long as the

technical intent of the Service Bulletin is met within the set parameters.

<u>NOTE</u>: Manual titles given in the accomplishment instructions are referred to by acronyms.

Refer to paragraph 1.J., References, for the definition of acronyms.

NOTE: This Service Bulletin contains the instructions for the on-aircraft maintenance

necessary to ensure the continued airworthiness of the aircraft.

For any deviations to the instructions, including RC paragraph contained herein,

contact AIRBUS for further instructions and approval.

NOTE: This Service Bulletin is classified mandatory or expected to be classified mandatory

by an AD. The paragraphs 3.C. and 3.D. in these accomplishment instructions are RC and must be done to comply with the AD. To allow more flexibility, the rule "refer to" and "in accordance with" will apply to these paragraphs 3.C. and 3.D.

Other paragraphs are recommended and may be deviated from, done as part of

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other actions or done with accepted methods different from those given in the Service Bulletin, as long as the RC paragraphs can be done and the aircraft can be put back into a serviceable condition.

Task Associated Data

| Zone | | | |
|--|--------------|------|--|
| 120 | | | |
| | Modified FIN | | |
| 1CE1 1CE2 | | | |
| | Access | | |
| Door | 811 | | |
| | Manpower | | |
| TOTAL MANHOURS 2.50 | | | |
| ELAPSED TIME (HOURS) 2.50 | | 2.50 | |
| | | | |
| Additional manhours related to Vendor SB; refer to: | | | |
| THALES AVS FRANCE SAS Service Bulletin No. 87292337-27-035 | | | |

A. GENERAL

(1) Subtask 274211-910-003-001 - Standard Practices

| Manpower Resources | |
|--------------------|--------------|
| Skills | NON SPECIFIC |

| References | |
|-----------------------------------|--------------------------|
| Aircraft Maintenance Manual (AMM) | 06-20-00, Page Block 001 |
| | 06-31-53, Page Block 001 |
| | Task 20-16-00-912-801 |
| | 24-00-00, Page Block 001 |

- (a) For the FR identification, refer to AMM 06-31-53, Page Block 001.
- (b) For the identification of zones, refer to AMM 06-20-00, Page Block 001.
- (c) For the circuit breaker location, refer to AMM 24-00-00, Page Block 001.
- (d) For circuit breaker safety practices, refer to AMM Task 20-16-00-912-801.

(2) Subtask 274211-839-003-001 - Administrative

| Manpower Resources | |
|--------------------|--------------|
| Skills | NON SPECIFIC |

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

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B. PREPARATION

(1) Subtask 274211-941-003-001 - Job Set-up

| Manpower Resource | es |
|-------------------|--------------|
| Skills | NON SPECIFIC |

| F | References |
|-----------------------------------|-----------------------|
| Aircraft Maintenance Manual (AMM) | Task 12-34-24-860-802 |
| | Task 27-95-34-000-801 |
| | Task 45-10-00-860-814 |
| | Task 52-41-00-010-801 |

NOTE: For the basic Aircraft configuration, refer to AMM Chapter 'Introduction - Aircraft status for maintenance' in Manual Front Matter section.

- (a) Make sure that the aircraft is electrically grounded, refer to AMM Task 12-34-24-860-802.
- (b) Check appropriate FCPC pre-required configuration:

- Make sure that these circuit breakers are closed:

| PANEL | DESIGNATION | FIN | LOCATION | SEE NOTES |
|-------|----------------|------|----------|--------------|
| 742VU | FCPC1 NORM | 7CE1 | C66 | |
| 742VU | FCPC1 STBY | 11CE | K67 | |
| 721VU | FCPC2 STBY | 28CE | X13 | |
| 722VU | FCPC2 NORM | 7CE2 | V41 | |
| 721VU | FCPC3 STBY COM | 7CE6 | R20 | (1) |
| 721VU | FCPC3 STBY MON | 7CE5 | R19 | (1) |
| 722VU | FCPC3 | 7CE3 | V42 | (1) |
| 722VU | FCPC3 | 7CE4 | V38 | (1) |

NOTE (1): For aircraft part of Service Bulletin No. A340-27-4158 effectivity, the location of CBs depends on associated aircraft configuration.

- Do the procedure to get access to the SYSTEM REPORT/TEST F/CTL: EFCS page, refer to AMM Task 45-10-00-860-814.

<u>NOTE</u>: The actions and results of this procedure occur the MCDU you use.

NOTE: This test is for system 1. For other system(s), use the indications

between the parentheses.

NOTE: You can launch this test when the EIVMU is deactivated.

| ACTION | RESULT |
|--|--|
| 1. Push the line key adjacent to the EFCS1(2) indication. | - The EFCS1(2) menu page comes into view. |
| 2. Push the line key adjacent to the LRU IDENT indication. | - The LRU IDENTIFICATION page comes into view. |

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- Make sure that the PN shown on the LRU IDENTIFICATION page is LA2K2B1002C0000 for the three FCPCs 2CE1, 2CE2 and 2CE3.

NOTE:

If the PN of FCPC is not the same, you must remove the concerned FCPC and return it to the shop (refer to interchangeability conditions of pre-requisite Service Bulletin No. A340-27-4208 or Service Bulletin No. A340-27-4212).

- (c) Open the avionics-compartment access door 811, refer to AMM Task 52-41-00-010-801.
- (d) Do the job set-up procedure as specified in the removal of the FCDC (FINs 1CE1 and 1CE2), refer to AMM Task 27-95-34-000-801 without the circuit breakers opening part.

NOTE:

The circuit breakers will be managed in another subtask to allow the BITE test of the Electrical Flight Control System (EFCS).

C. PROCEDURE

(1) Subtask 274211-020-001-001 - Remove the OBRMs

| Work Zones and Access Panels | | | | |
|------------------------------|------|----------------------|------------------------|--|
| | Zone | Access/Work location | | |
| | 120 | Access | Door 811 | |
| | | Work location | Electrical panel 800VU | |

| Manpower Resources | | |
|--------------------------|--------------|--|
| Manhours | 0.25 | |
| Minimum number of person | 1 | |
| Subtask elapsed time | 0.25 | |
| Skills | NON SPECIFIC | |

| References | |
|-----------------------------------|-----------------------|
| Aircraft Maintenance Manual (AMM) | Task 27-96-00-740-807 |

- (a) Before reprogramming the OBRMs:
 - After power-up, make sure that on the EWD, there is no ECAM warning messages related to the FCDC (FINs 1CE1 and 1CE2).
 - 2 Make sure that these circuit breakers are closed:

| PANEL | DESIGNATION | FIN | | SEE NOTES |
|-------|-------------|------|-----|--------------|
| 742VU | FCDC 1 | 6CE1 | L76 | |
| 722VU | FCDC 2 | 6CE2 | T40 | |
| 721VU | PRINTER | 1TP | D02 | |

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<u>3</u> Do the BITE test of the EFCS (LRU IDENT), refer to AMM Task 27-96-00-740-807 and make sure that the old PN of the two FCDCs (FINs 1CE1 and 1CE2) is 87292337V04L14.

NOTE: Print the LRU IDENTIFICATION page (if the printer is not

available, a visual check is acceptable).

4 Open, safety/lock and tag this (these) circuit breaker(s):

| PANEL | DESIGNATION | FIN | | SEE NOTES |
|-------|-------------|------|-----|--------------|
| 742VU | FCDC 1 | 6CE1 | L76 | |
| 722VU | FCDC 2 | 6CE2 | T40 | |

5 Remove the OBRMs from the FCDCs (FINs 1CE1 and 1CE2):

2 OBRMs 87093732V01L14 Retain

NOTE: Retained for modification.

(2) Subtask 274211-470-001-001 - Reprogram and re-identify the OBRMs in accordance with VSB on Bench

| Material necessary to do the job | |
|----------------------------------|--|
| | |

| Reidentified part set REIDA01 | | | | | |
|-------------------------------|----------------|---------|------|----------------|--------------|
| ITEM | NEW PART N° | KEYWORD | ITEM | | SEE NOTES |
| | 87093732V01L15 | OBRM | | 87093732V01L14 | |

NOTE: Parts are re-identified in accordance with the THALES AVS FRANCE SAS Service Bulletin No. 87292337-27-035.

| | References | |
|-------------------------------|-----------------------|--|
| Vendor Service Bulletin (VSB) | THALES AVS FRANCE SAS | |
| | 87292337-27-035 | |

- (a) Reprogram and re-identify the OBRMs of FCDCs (FINs 1CE1 and 1CE2) as described in THALES AVS FRANCE SAS Service Bulletin No. 87292337-27-035.
- (b) After modification:

2 OBRMs 87093732V01L14

becomes

2 OBRMs 87093732V01L15

(3) Subtask 274211-420-001-001 - Install the OBRMs

| Work Zones and Access Panels | | | |
|------------------------------|---------------|------------------------|--|
| Zone Access/Work location | | | |
| 120 | Access | Door 811 | |
| | Work location | Electrical panel 800VU | |

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| Manpower Resources | | | |
|--------------------------|--------------|--|--|
| Manhours | 0.25 | | |
| Minimum number of person | 1 | | |
| Subtask elapsed time | 0.25 | | |
| Skills | NON SPECIFIC | | |

(a) Install the modified OBRMs to the FCDC (FINs 1CE1 and 1CE2).

(4) Subtask 274211-831-003-001 - Re-identify the two FCDCs (1CE1 and 1CE2)

| Work Zones and Access Panels | | | |
|------------------------------|-----|---------------|------------------------|
| Zone Access/Work location | | | |
| | 120 | Access | Door 811 |
| | | Work location | Electrical panel 800VU |

| Manpower Resources | | | | |
|--------------------------|--------------|--|--|--|
| Manhours | 0.50 | | | |
| Minimum number of person | 1 | | | |
| Subtask elapsed time | 0.50 | | | |
| Skills | NON SPECIFIC | | | |

Material necessary to do the job

| Reide | Reidentified part set REIDA01 | | | | |
|-------|-------------------------------|-------------|--------------|----------------|--|
| ITEM | NEW PART N° | OLD PART N° | SEE NOTES | | |
| | 87292337V04L15 | FCDC | | 87292337V04L14 | |

NOTE: Parts are re-identified in accordance with the THALES AVS FRANCE SAS Service Bulletin No. 87292337-27-035.

(a) Re-identify the two FCDCs (FINs 1CE1 and 1CE2).

FIN 1CE1

FCDC 87292337V04L14

becomes

FIN 1CE1

FCDC 87292337V04L15

and

FIN 1CE2

FCDC 87292337V04L14

becomes

FIN 1CE2

1 FCDC 87292337V04L15

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NOTE:

If necessary, the responsible Quality Inspector can put his own sticker and his own control seal on the front face to confirm the replacement of the OBRMs.

D. TEST

(1) Subtask 274211-700-003-001 - Test

| Manpower Resources | | |
|--------------------|--------------|--|
| Skills | NON SPECIFIC | |

| References | | |
|-----------------------------------|-----------------------|--|
| Aircraft Maintenance Manual (AMM) | Task 27-96-00-740-801 | |
| | Task 27-96-00-740-807 | |

- (a) Job Set-up:
 - Remove the safety clip(s) and/or tag(s) and close/unlock this (these) circuit breaker(s):

| PANEL | DESIGNATION | FIN | LOCATION | SEE NOTES |
|-------|-------------|------|----------|--------------|
| 742VU | FCDC 1 | 6CE1 | L76 | |
| 722VU | FCDC 2 | 6CE2 | T40 | |

- (b) After replacement of the OBRMs:
 - After power-up, make sure that on the EWD, there is no ECAM warning messages related to the FCDC (FINs 1CE1 and 1CE2).
 - <u>2</u> Do the BITE test of the EFCS (Ground Scanning), refer to AMM Task 27-96-00-740-801 to make sure that there is no failure on the FCDC.

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If the test shows a class 1 fault message related to a computer modified for the aircraft by the replacement of the OBRM(s) in the shop, you must:

- Remove the computer
- Return it to the shop.
- <u>3</u> Do the BITE test of the EFCS (LRU IDENT), refer to AMM Task 27-96-00-740-807 and make sure that the new PN of the two FCDCs (FINs 1CE1 and 1CE2) is 87292337V04L15.

NOTE: Print the LRU IDENTIFICATION page (if the printer is not available, a visual check is acceptable).

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E. CLOSE-UP

(1) Subtask 274211-942-003-001 - Close-up

| | Manpower Resources | |
|--------|--------------------|--------------|
| Skills | | NON SPECIFIC |

| Re | ferences |
|-----------------------------------|-----------------------|
| Aircraft Maintenance Manual (AMM) | Task 27-95-34-400-801 |
| | Task 52-41-00-410-801 |

- (a) Make sure that the work areas are clean and clear of tools and other items of equipment.
- (b) Do the close-up procedure as specified in the installation of the FCDC (FINs 1CE1 and 1CE2), refer to AMM Task 27-95-34-400-801.
- (c) Close the avionics-compartment access door 811, refer to AMM Task 52-41-00-410-801.
- (d) Put the aircraft back to its initial configuration.

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SERVICE BULLETIN Appendix 01 - Glossary

**CONF ALL

| ACRONYM | FULL FORM |
|---------|--|
| AD | Airworthiness Directive |
| BITE | Built-In Test Equipment |
| ECAM | Electronic Centralized Aircraft Monitoring |
| EFCS | Electrical Flight Control System |
| EIVMU | Engine Interface and Vibration Monitoring Unit |
| EWD | Engine/Warning Display |
| FCDC | Flight Control Data Concentrator |
| FR | Frame |
| LRU | Line Replaceable Unit |
| MCDU | Multipurpose Control and Display Unit |
| OBRM | On Board Replaceable Module |
| PN | Part Number |
| RC | Required for Compliance |

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SERVICE BULLETIN Service Bulletin REPORTING

TITLE: FLIGHT CONTROLS - FLIGHT CONTROL DATA CONCENTRATOR (FCDC) - INTRODUCE FCDC STD L26 M25 P16 ON BASIC A/C

MODIFICATION No.: 204828S32944

SB Reporting status

This Service Bulletin will only be incorporated into affected customized Maintenance and Flight Operations Products if it is duly reported to Airbus.

General information

The SB Reporting policy is published in ISI 00.00.00135. This document provides information regarding: the SB Reporting means and benefits, the update of customized Maintenance Products and customized Flight Operations Products.

If this Service Bulletin has an operational impact, refer to paragraph "Flight Operations Products" for further information on the update of affected Flight Operations Products.

SB Reporting procedure

Standard practice to report SB is to use the online reporting application on AirbusWorld.

Refer to ISI 00.00.00179:

- For complete information on reporting means to Airbus. Question 2 "What are the standard practices for SB reporting?"
- If this SB requires previous or simultaneous accomplishment of other SBs, Question 3 "What about the reporting of prerequisite Service Bulletin?"

NOTE: ISI 00.00.00179 covers all the frequently asked questions about SB Reporting. It is revised on a regular basis.

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SERVICE BULLETIN QUALITY PERCEPTION FORM

Use this form to tell us what is your perception of the quality of this Service Bulletin. The reported data that you provide us will be used to analyse areas of difficulties and to take corrective action to further improve the quality of our Service Bulletins.

We thank you for the time you have taken in completing this form.

(Please rate on a scale of 1 to 4, with 4 being the highest score)

| - Quality rating of this SB | 4 | 3 | 2 | 1 |
|---|-------|---|---|---|
| - Quality rating of the Accomplishment Instructions | 4 | 3 | 2 | 1 |
| - Quality rating of the Illustrations | 4 | 3 | 2 | 1 |
| - Is this SB easy to understand ? | Y / N | | | |

If you have had difficulties in the accomplishment of this SB please quote below the area(s) and give a short description of the issue.

| Planning | Material | Instructions | |
|---|--|--|--|
| X Effectivity X Reason X Manpower X References X Publication Comments: | X Kit content X List of Materials Operator Supplied X Industry support X Re-identification X Tooling | X Preparation X Mod/Inspection X Test X Close-Up X Illustrations | |
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