

# **Airworthiness Directive**

# AD No.: 2018-0276R1

# Issued: 11 January 2019

Note: This Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EU) 2018/1139 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 129 of that Regulation.

This AD is issued in accordance with Regulation (EU) 748/2012, Part 21.A.3B. In accordance with Regulation (EU) 1321/2014 Annex I, Part M.A.301, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD, unless otherwise specified by the Agency [Regulation (EU) 1321/2014 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [Regulation (EU) 2018/1139, Article 71 exemption].

# **Design Approval Holder's Name:** AIRBUS

# Type/Model designation(s): A330 aeroplanes

| Effective Date: | 13 January 2019 [same as original issue]  |
|-----------------|---|
| TCDS Number(s): | EASA.A.004  |
| Foreign AD:     | Not applicable  |
| Revision:       | This AD revises EASA AD 2018-0276 dated 14 December 2018. The original issue of this AD superseded EASA AD 2016-0207 dated 19 October 2016. |

# ATA 53 – Fuselage – Structural Parts / Joints – Modification / Reinforcement

# Manufacturer(s):

Airbus, formerly Airbus Industrie

# **Applicability:**

Airbus A330-201, A330-202, A330-203, A330-223, A330-243, A330-223F, A330-243F, A330-301, A330-302, A330-303, A330-321, A330-322, A330-323, A330-341, A330-342 and A330-343 aeroplanes, all manufacturer serial numbers (MSN).

#### Reason:

An analysis conducted on A330 aeroplanes identified structural areas which are susceptible to widespread fatigue damage (WFD).

This condition, if not corrected, could lead to crack initiation and undetected propagation, reducing the structural integrity of the aeroplane, possibly resulting in rapid depressurisation and consequent injury to occupants.

To address this potential unsafe condition, Airbus developed a number of modifications (Mod) and published associated Service Bulletins (SB) for embodiment in service, to provide instructions to reinforce the various structural parts of the fuselage. Consequently, EASA issued AD 2016-0207 to require accomplishment of these modifications and reinforcements.



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Since that AD was issued, Airbus developed new Mods for A330-223F and A330-243F aeroplanes and issued associated SBs accordingly. In addition, for certain required modifications, upper thresholds in flight hours (FH) have been defined and the Applicability of some required actions was redefined to certain aeroplane configurations.

For the reasons described above, EASA issued AD 2018-0276, retaining the requirements of EASA AD 2016-0207, which was superseded, requiring new actions for A330-200F aeroplanes, introducing references to the related Airbus SBs, and amending some compliance times (see Table 3 – Applicability of this AD).

Since EASA AD 2018-0276 was issued, prompted by operator comments, it was determined that there was need to clarify the compliance time for aeroplanes that, for **Action 9**, were modified by using a previous revision of Airbus SB A330-53-3238. Consequently, this AD is revised and introduces paragraph (6) that clarifies this specific scenario. In addition, Note 2 of this AD is corrected to clarify that the instructions of each SB are applicable for certain configurations, not limited to those MSN listed in the Effectivity of the SB.

# **Required Action(s) and Compliance Time(s):**

Required as indicated, unless accomplished previously:

# Modification(s):

(1) Before exceeding the applicable Structural Modification Point (SMP) for each Action, as defined in Table 3 of Appendix 1 of this AD, but not before reaching the lower limit as defined in Table 2 of Appendix 1 of this AD, as applicable, modify the aeroplane in accordance with the instructions of each Airbus SB, as applicable, as specified in Appendix 1 of this AD.

# Alternative Method(s):

- (2) Modification of an aeroplane in accordance with the instructions of Airbus SB A330-53-3273 is an acceptable alternative method to comply with the modification requirements of Action 6 (SB A330-53-3226) for that aeroplane.
- (3) Modification of an aeroplane in accordance with the instructions of Airbus SB A330-53-3291 is an acceptable alternative method to comply with the modification requirements of Action 7 (SB A330-53-3236) for that aeroplane.
- (4) Modification of an aeroplane in accordance with the instructions of Airbus SB A330-53-3288 is an acceptable alternative method to comply with the modification requirements of Action 17 (SB A330-53-3259) for that aeroplane.
- (5) Modification of an aeroplane in accordance with the instructions of Airbus SB A330-53-3289 is an acceptable alternative method to comply with the modification requirements of Action 22 (SB A330-53-3256) for that aeroplane.
- (6) For an aeroplane on which modification of Action 9 was accomplished, before the effective date of this AD, using the instructions of Airbus SB A330-53-3238 at original issue or Revision 01, it is allowed to accomplish the additional work within the special compliance times



specified in SB A330-53-3238 Revision 02 to enable compliance demonstration of **Action 9** for that aeroplane.

#### **Ref. Publications:**

Airbus SB A330-53-3144 Revision 01 dated 25 July 2006, or Revision 02 dated 20 April 2011, or Revision 03 dated 15 January 2015, or Revision 04 dated 23 November 2015.

Airbus SB A330-53-3222 Revision 01 dated 31 March 2016, or Revision 02 dated 10 April 2017.

Airbus SB A330-53-3223 original issue dated 19 January 2015, or Revision 01 dated 18 January 2017, or Revision 02 dated 10 September 2018.

Airbus SB A330-53-3224 original issue dated 16 January 2015, or Revision 01 dated 14 April 2016.

Airbus SB A330-53-3225 original issue dated 16 January 2015, or Revision 01 dated 26 February 2016, or Revision 02 dated 08 June 2016.

Airbus SB A330-53-3226 original issue dated 15 January 2015, or Revision 01 dated 03 March 2016, or Revision 02 dated 27 October 2016, or Revision 03 dated 10 September October 2018.

Airbus SB A330-53-3236 original issue dated 15 January 2015, or Revision 01 dated 24 August 2015, or Revision 02 dated 23 March 2016, or Revision 03 dated 17 January 2017.

Airbus SB A330-53-3237 Revision 01 dated 08 February 2016.

Airbus SB A330-53-3238 original issue dated 15 January 2015, or Revision 01 dated 19 October 2015, or Revision 02 dated 16 June 2017.

Airbus SB A330-53-3239 original issue dated 20 April 2015, or Revision 01 dated 04 July 2016.

Airbus SB A330-53-3240 original issue dated 10 April 2015, or Revision 01 dated 18 July 2016.

Airbus SB A330-53-3243 original issue dated 07 April 2015.

Airbus SB A330-53-3244 original issue dated 07 April 2015, or Revision 01 dated 02 August 2016.

Airbus SB A330-53-3248 original issue dated 07 April 2015, or Revision 01 dated 29 February 2016, or Revision 02 dated 27 July 2016.

Airbus SB A330-53-3250 original issue dated 01 April 2015.

Airbus SB A330-53-3251 original issue dated 13 May 2015, or Revision 01 dated 23 June 2016.

Airbus SB A330-53-3252 original issue dated 10 April 2015, or Revision 01 dated 30 June 2016.

Airbus SB A330-53-3255 original issue dated 07 April 2015, or Revision 01 dated 01 October 2015, or Revision 02 dated 31 August 2016.



Airbus SB A330-53-3256 original issue dated 13 May 2015.

Airbus SB A330-53-3257 original issue dated 21 July 2015, or Revision 01 dated 15 March 2016.

Airbus SB A330-53-3258 original issue dated 20 April 2015.

Airbus SB A330-53-3259 original issue dated 11 May 2015, or Revision 01 dated 26 February 2016, or Revision 02 dated 18 July 2016.

Airbus SB A330-53-3260 original issue dated 15 April 2015.

Airbus SB A330-53-3266 original issue dated 11 May 2015.

Airbus SB A330-53-3273 original issue dated 28 September 2016, or Revision 01 dated 09 May 2018.

Airbus SB A330-53-3288 original issue dated 31 July 2018.

Airbus SB A330-53-3289 original issue dated 21 June 2018.

Airbus SB A330-53-3291 original issue dated 26 June 2018.

Airbus SB A330-57-3122 original issue dated 05 August 2016.

The use of later approved revisions of the above-mentioned documents is acceptable for compliance with the requirements of this AD.

#### **Remarks:**

- 1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.
- The original issue of this AD was posted on 31 October 2018 as PAD 18-145 for consultation until 28 November 2018. The Comment Response Documents can be found in the <u>EASA Safety</u> <u>Publications Tool</u>, in the compressed (zipped) file attached to the record for this AD.
- 3. Enquiries regarding this AD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: <u>ADs@easa.europa.eu</u>.
- 4. Information about any failures, malfunctions, defects or other occurrences, which may be similar to the unsafe condition addressed by this AD, and which may occur, or have occurred on a product, part or appliance not affected by this AD, can be reported to the <u>EU aviation safety</u> <u>reporting system</u>.
- For any question concerning the technical content of the requirements in this AD, please contact: AIRBUS – Airworthiness Office – EIAL, E-mail: <u>airworthiness.A330-A340@airbus.com</u>.



### Appendix 1 – SMP / Modifications

Notes referenced in Table 3 below:

Note 1: LR = flight hours (FH) optimized set for aeroplane in Long Range (LR) operations; SR = flight cycles (FC) optimized set for aeroplane in Short Range (SR) operations.

Note 2: Each applicable SB defines the aeroplanes by configuration for which the actions are required. The affected Weight Variant (WV) Group definitions are provided in Table 1 of this AD:

| Aeroplanes | WV Group  | Weight variants   |  |  |
|------------|-----------|---|--|--|
|            | Group 32A | 020, 021, 022, 023, 024, 025, 026 and 027   |  |  |
| A330-200   | Group 32E | 050, 051, 052, 053, 054, 055, 056, 057, 058, 059, 060, 061, 062, 063, 064, 080, 081, 082 and 083                |  |  |
| A330-200F  | -         | - 000, 001 and 002  |  |  |
|            | Group 33A | 000, 001, 002, 003 and 004  |  |  |
|            | Group 33B | 010, 011, 012, 013 and 014  |  |  |
| A330-300   | Group 33C | 020, 024, 025, 026 and 027  |  |  |
|            | Group 33D | 022   |  |  |
|            | Group 33E | 030, 031, 032, 033, 034, 035, 039, 050, 051, 052, 053, 054, 055, 056, 057, 058, 059, 060, 080, 081, 082 and 083 |  |  |

Table 1 – WV Group Definitions

Note 3: For some modifications, a lower threshold, as defined in flight cycles (FC) or FH, whichever occurs later, as specified in Table 2 of this AD, was determined to be necessary.

| Action No. | SB (Mod)                        | Applicability (Note 2)                    | Modification Not Before: |
|------------|---------------------------------|---|--------------------------|
|            |                                 | Groups 32A, 32E, 33A, 33C,<br>33D and 33E | 10 000 FC                |
| 2          | A330-53-3222 R01                | Group 33B                                 | 12 000 FC                |
|            |                                 | A330-200F                                 | 8 900 FC and 26 600 FH   |
| 5          | A330-53-3225                    | Group 33A                                 | 3 900 FC and 10 200 FH   |
| 8          | A330-53-3237 R01                | Groups 32A, 33A, 33B, 33C<br>and 33D      | 3 900 FC                 |
| 9          | A330-53-3238 R01                | Groups 32A, 33A, 33B, 33C<br>and 33D      | 9 000 FC                 |
| 21         | A330-53-3255                    | A330-200F                                 | 8 000 FC                 |
| 22         | A330-53-3256 or<br>A330-53-3289 | A330-200F                                 | 12 000 FC                |

Table 2 - Window of Embodiment: Lower Threshold for Modification



Note 4: For certain actions as specified in Table 3, SMP limits in FH have been determined but are not shown in Table 3 because they exceed the currently applicable certified limit (DSG, ISG or ESG) of the aeroplane. For the purpose of this AD, SMP limits in FH, as defined in the applicable SB, are currently not applicable, as they depend on later extension of the certified limit and associated certification by EASA.

An aeroplane complies with the requirements of this AD when all applicable actions, as defined in Table 3 of this AD, are accomplished.

| Action | Description of action  | <b>Applicability</b><br>(Note 2) | <b>Applicable SB</b><br>(Equivalent Airbus<br>production Mod) | SMP SR (Note 1)                                    | SMP LR (Note 1)           |
|--------|--|----------------------------------|---|--|---------------------------|
|        |  |                                  |   | (FC or FH, whichever occurs first)<br>(*) = Note 4 |                           |
|        |  | Group 32A – Pre-Mod 49202        | -<br>A330-53-3144 R01<br>-                                    | 32 500 FC /<br>113 000 FH                          | 26 600 FC (*)             |
|        | Improve circumferential joints<br>at Frame (FR) 45 and 54 of the<br>fuselage | Group 33A                        |   | 23 700 FC /<br>71 300 FH                           | 20 400 FC /<br>122 400 FH |
|        |  | Group 33B                        |   | 27 600 FC /<br>83 000FH                            | 23 700 FC (*)             |
|        |  | Group 33C – Pre-Mod 49202        |   | 23 300 FC /<br>70 000 FH                           | 20 000 FC /<br>120 000 FH |
|        |  | Group 33D – Pre-Mod 49202        |   | 22 700 FC /<br>68 300 FH                           | 19 500 FC /<br>117 200 FH |

Table 3



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|   |  | Applicability<br>(Note 2)  | <b>Applicable SB</b><br>(Equivalent Airbus<br>production Mod) | SMP SR (Note 1)                                    | SMP LR (Note 1)           |
|---|--|--|---|--|---------------------------|
| Action  | Description of action  |  |   | (FC or FH, whichever occurs first)<br>(*) = Note 4 |                           |
| FR48 to FR53-2<br>2 Stringer (STGR) 23<br>Hand (LH)/Right H | Improve splicing area from<br>FR48 to FR53-2 between<br>Stringer (STGR) 23 and 26 Left | Group 32A – Post-Mod<br>42409S11839 and<br>Pre-SB A330-53-3015<br>Group 32E – Post-Mod<br>42409S11839 and<br>Pre-Mod 204315 and<br>Pre-SB A330-53-3015 | A330-53-3222 R01  | 23 100 FC /<br>80 900 FH                           | 20 900 FC (*)             |
|   |  | Group 33A – Post-Mod<br>42409S11839 and<br>Pre-SB A330-53-3015   |   | 24 200 FC /<br>79 100 FH                           | 21 800 FC (*)             |
|   |  | Group 33B – Post-Mod<br>42409S11839 and<br>Pre-SB A330-53-3015   |   | 19 700 FC /<br>64 300 FH                           | 17 700 FC /<br>119 900 FH |
|   | Hand (LH)/Right Hand (RH) of<br>the fuselage   | Groups 33C and 33D –<br>Post-Mod 42409S11839 an<br>Pre-SB A330-53-3015   |   | 21 600 FC /  |                           |
|   |  | Groups 33E – Post-Mod<br>42409S11839 and<br>Pre-Mod 204315 and<br>Pre-SB A330-53-3015  |   | 70 600 FH  | 19 400 FC (*)             |
|   |  | A330-200F – Post-Mod<br>42409S11839 and<br>Pre-Mod 204315 and<br>Pre-SB A330-53-3015   |   |  | 0 FC /<br>00 FH           |



|        |  | ription of action (Note 2)   | Applicable SB                      | SMP SR (Note 1)                                    | SMP LR (Note 1)           |
|--------|--|--|------------------------------------|--|---------------------------|
| Action | Description of action  |  | (Equivalent Airbus production Mod) | (FC or FH, whichever occurs first)<br>(*) = Note 4 |                           |
| 3      | Reinforce couplings in area<br>FR20 – FR25 / STGR20 RH –<br>STRG22 RH of the forward<br>fuselage                       | Group 32A<br>Group 32E – Pre-Mod 205552<br>Group 33B and 33C and 33D<br>Group 33E – Pre-Mod 205552 | A330-53-3223                       | 30 900 FC  |                           |
| 4      | Reinforce circumferential joint<br>at FR72 of the fuselage   | Group 33A – Pre-Mod 40556  | A330-53-3224                       | 29 700 FC /<br>89 600 FH                           | 25 500 FC (*)             |
| 5      | Reinforce circumferential joint<br>at FR58 of the fuselage   | Group 33A – Pre-Mod 40556  | A330-53-3225                       | 16 300 FC /<br>49 300 FH                           | 13 300 FC /<br>90 700 FH  |
|        | Reinforce circumferential joint<br>between FR53.6 – FR53.7 for<br>emergency door TYPE 1 area<br>of the centre fuselage | Group 32A – Pre-Mod 40161<br>and Pre-SB A330-53-3273   | A330-53-3226                       | 26 100 FC /<br>91 600 FH                           | 21 000 FC (*)             |
|        |  | Groups 33C, 33D and 33E –<br>Pre-Mod 40161 and Pre-SB<br>A330-53-3273                              |                                    | 15 600 FC /<br>46 800 FH                           | 12 600 FC /<br>84 800 FH  |
| 6      |  | Group 33A – Pre-Mod 40161<br>and Pre-SB A330-53-3273   |                                    | 34 400 FC /<br>103 300 FH                          | 27 800 FC (*)             |
|        |  | Group 33B – Pre-Mod 40161<br>and Pre-SB A330-53-3273   |                                    | 19 900 FC /<br>59 800 FH                           | 16 100 FC /<br>108 400 FH |
|        |  | Group 32E – Pre-Mod 40161<br>and Pre-SB A330-53-3273   |                                    | 19 900 FC /<br>69 900 FH                           | 16 200 FC /<br>105 100 FH |



|        | Description of action   | A soulite thilite                                     | Applicable SB                      | SMP SR (Note 1)                                    | SMP LR (Note 1) |
|--------|---|---|------------------------------------|--|-----------------|
| Action |   | Applicability<br>(Note 2)                             | (Equivalent Airbus production Mod) | (FC or FH, whichever occurs first)<br>(*) = Note 4 |                 |
| 7      | Reinforce circumferential joint<br>between FR53.6 – FR53.7<br>LH/RH of option emergency<br>door TYPE A area of the centre<br>fuselage | Group 33A – Post-Mod 40161<br>and Pre-SB A330-53-3291 | A330-53-3236                       | 30 900 FC /<br>93 200 FH                           | 25 400 FC (*)   |
|        | Improve fatigue life of internal  | Group 33A   |                                    | 27 300 FC  |                 |
| 8      | centre fuselage structure on  | Group 33B   | A330-53-3237 R01                   |  |                 |
|        | longitudinal beams above the<br>centre wing box   | Groups 32A, 33C and 33D –<br>Pre-Mod 49202S16307      |                                    |  |                 |
|        | Undata lawar / lataral frama  | Group 32A   | A330-53-3238 R02                   | 38 400 FC  |                 |
|        | Update lower / lateral frame<br>splicing with corner fitting  | Group 33A   |                                    | 28 800 FC  |                 |
| 9      | between FR53.3 and FR54 of  | Group 33B   |                                    | 36 200 FC  |                 |
|        | the centre fuselage   | the centre fuselage Groups 33C and 33D                | 34 700 FC                          |  |                 |
| 10     | Reinforce longitudinal butt<br>joints in section 13   | A330-200F   | A330-53-3239                       | 15 100 FC  |                 |
| 11     | Reinforce circumferential joint<br>at FR31 between STRG7 LH<br>and STRG8 RH of forward<br>fuselage                                    | A330-200F   | A330-53-3244                       | 15 500 FC /<br>46 500 FH                           |                 |



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|        | Description of action   | Analisahilitu  | Applicable SB                      | SMP SR (Note 1)                                    | SMP LR (Note 1) |
|--------|---|--|------------------------------------|--|-----------------|
| Action |   | Applicability<br>(Note 2)                              | (Equivalent Airbus production Mod) | (FC or FH, whichever occurs first)<br>(*) = Note 4 |                 |
| 12     | Reinforce frame couplings in section 13, 14 and 14A of the forward fuselage | Group 33A  | A330-53-3248                       | 32 0   | 00 FC           |
|        | Reinforce circumferential   | Group 33C – Pre-Mod 46636                              | A330-53-3251                       | 38 200 FC /<br>124 000 FH                          | 32 000 FC (*)   |
| 13     | joint/stringer coupling in area<br>of FR37.1 of the forward                 | Groups 33C and 33D –<br>Post-Mod 46636                 |                                    | 30 600 FC /<br>99 500 FH                           | 27 600 FC (*)   |
|        | fuselage  | Group 33E – Pre-Mod 205553                             |                                    | 32 200 FC /<br>104 900 FH                          | 29 100 FC (*)   |
| 14     | Reinforce circumferential joint/stringer coupling in area                   | Groups 33C and 33D –<br>Post-Mod 46636                 | A330-53-3252                       | 30 600 FC /<br>99 500 FH                           | 27 600 FC (*)   |
| 14     | of FR37.1 of the forward<br>fuselage  | Group 33E – Pre-Mod 205553                             | A350-33-3232                       | 32 200 FC /<br>104 900 FC                          | 29 100 FC (*)   |
| 15     | Reinforce frame couplings in<br>rear area of the fuselage                   | Group 33A and 33B – Pre-Mod<br>44593 and Pre-Mod 44203 | A330-53-3257                       | 33 200 FC  |                 |
| 16     | Reinforce corner fittings in section 13 of the forward fuselage             | Group 32A – Pre-Mod 45403                              | A330-53-3258                       | 31 800 FC  |                 |



|        | Description of action   | Applicability<br>(Note 2)   | Applicable SB<br>(Equivalent Airbus<br>production Mod) | SMP SR (Note 1)                                    | SMP LR (Note 1)          |  |
|--------|---|---|--|--|--------------------------|--|
| Action |   |   |  | (FC or FH, whichever occurs first)<br>(*) = Note 4 |                          |  |
|        | Reinforce circumferential joint<br>at FR58 (aeroplane Post-Mod<br>40556/D18255) of the rear<br>fuselage | Group 32E – Pre-Mod 205554<br>and Pre-Mod 206790 and<br>Pre-SB A330-53-3288 | A330-53-3259   | 18 500 FC /<br>65 400 FH                           | 14 600 FC /<br>95 700 FH |  |
| 17     |   | Group 33A – Post-Mod<br>40556D18255 and Pre-SB<br>A330-53-3288              |  | 34 800 FC /<br>104 800 FH                          | 28 400 FC (*)            |  |
|        |   | Group 33B – Pre-Mod 44593<br>and Pre-SB A330-53-3288                        |  | 33 500 FC /<br>101 200 FH                          | 27 400 FC (*)            |  |
| 18     | Reinforce frames in rear area<br>of the fuselage  | Actio   | on (Airbus SB A330-53-326                              | 53-3263) no longer required                        |                          |  |
| 19     | Reinforce longitudinal butt<br>joint between FR21 and FR26<br>at STR35 LH                               | A330-200F   | A330-53-3240   | 32 600 FC  |                          |  |
| 20     | Reinforce frame couplings in<br>area between FR21-FR25 and<br>STGR20-STGR23 RH only                     | A330-200F   | A330-53-3243   | 27 800 FC  |                          |  |
| 21     | Reinforce stringer couplings<br>and circumferential joint in<br>area of FR76                            | A330-200F   | A330-53-3255   | 26 750 FC /<br>80 250 FH                           |                          |  |
| 22     | Reinforce stringer couplings<br>and circumferential joint in<br>area of FR72                            | A330-200F – Pre-SB<br>A330-53-3289  | A330-53-3256   | 22 400 FC  |                          |  |



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|                              |   | Angliaghility             | Applicable SB                      | SMP SR (Note 1)                                    | SMP LR (Note 1) |
|------------------------------|---|---------------------------|------------------------------------|--|-----------------|
| Action Description of action |   | Applicability<br>(Note 2) | (Equivalent Airbus production Mod) | (FC or FH, whichever occurs first)<br>(*) = Note 4 |                 |
| 23                           | Reinforce frame couplings<br>from FR60 to FR64 between<br>STGR20 RH and STGR23 RH | A330-200F                 | A330-53-3260                       | 26 288 FC /<br>78 865 FH                           |                 |
| 24                           | Reinforce frames in area of<br>FR55-FR57 between STGR22<br>and STGR28 RH/LH       | A330-200F                 | A330-53-3266                       | 20 3   | 00 FC           |



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