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| <b>EASA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>AIRWORTHINESS DIRECTIVE</b>                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <p><b>AD No.: 2015-0121</b><br/> <b>[Correction: 10 July 2015]</b></p> <p><b>Date: 25 June 2015</b></p> <p>Note: This Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EC) No 216/2008 on behalf of the European Community, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation.</p> |
| <p>This AD is issued in accordance with EU 748/2012, Part 21.A.3B. In accordance with 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 [EU 1321/2014 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [EC 216/2008, Article 14(4) exemption].</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                            |
| <p><b>Design Approval Holder's Name:</b><br/> AGUSTAWESTLAND S.p.A.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <p><b>Type/Model designation(s):</b><br/> AB 204, AB 205, AB 212 and AB 412 helicopters</p>                                                                                                                                                                                                                                                                                                                |
| <p>TCDS Numbers: ENAC ITALY SO/A-150, EASA.R.114</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                            |
| <p>Foreign AD: Not applicable</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                            |
| <p>Supersedure: This AD supersedes EASA AD 2015-0106 dated 11 June 2015.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ATA 25</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Equipment / Furnishings – External Cargo Hook Installation / Suspension Assembly Nuts – Inspection / Replacement</b>                                                                                                                                                                                                                                                                                    |
| <p>Manufacturer(s): AgustaWestland S.p.A. (formerly Agusta S.p.A)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                            |
| <p>Applicability: AB 204B, AB 205A1, AB 212, AB 412 and AB 412EP helicopters equipped with external cargo suspension hook Part Number (P/N) 212-706-103-XXX (where XXX represents any numerical value).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                            |
| <p>Reason:</p> <p>During a scheduled inspection on an AB 412 helicopter, one of the nuts P/N MS21042L4 connecting the yoke with the tube in the suspension assembly of the external cargo hook installation was found cracked.</p> <p>Subsequent technical investigation determined that the root cause for the crack was a production deficiency (causing hydrogen embrittlement) at the nut supplier.</p> <p>This condition, if not detected and corrected, could reduce the structural integrity of the helicopter's external cargo hook installation.</p> <p>To address this unsafe condition, AgustaWestland issued Bollettino Tecnico (BT) 412-141 providing instructions for inspection and nut replacement.</p> <p>Consequently, EASA issued AD 2014-0203 to require repetitive inspections of all P/N MS21042L4 nuts installed on the suspension assembly of the external cargo hook installation, as well as replacement of each nut with a serviceable part having a different P/N.</p> <p>After that AD was issued, it was determined that the same suspension assembly is installed on AB 212 helicopters. Prompted by this, AgustaWestland issued BT 212-206, and EASA issued AD 2015-0106, which superseded AD 2014-0203.</p> |                                                                                                                                                                                                                                                                                                                                                                                                            |

|                                            | <p>Since EASA AD 2015-0106 was issued, it was determined that the same suspension assembly is also installed on AB 204B and AB 205A1 helicopters and AgustaWestland issued BT 204-127 and BT 205A1-135 respectively.</p> <p>For the reason described above, this AD retains the requirements of EASA AD 2015-0106, which is superseded, and extends the actions to AB 204B and AB 205A1 helicopters.</p> <p>This AD is republished to correct the effective date of EASA AD 2015-0106 in Table 1 and Table 2.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |                 |                  |                                                                                 |        |                                                                            |                   |                                                   |                  |                 |                  |                                                                                    |        |                                                                               |                  |                                                      |
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| Effective Date:                            | 09 July 2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |                 |                  |                                                                                 |        |                                                                            |                   |                                                   |                  |                 |                  |                                                                                    |        |                                                                               |                  |                                                      |
| Required Action(s) and Compliance Time(s): | <p>Required as indicated, unless accomplished previously:</p> <p>(1) Within the compliance time as specified in Table 1 of this AD, as applicable to helicopter model, and, thereafter, at intervals not to exceed 25 flight hours (FH), inspect each nut P/N MS21042L4 installed on the suspension assembly P/N 204-072-915-XXX of the external cargo suspension hook for cracks in accordance with the instructions of AgustaWestland BT 412-141 or BT 212-206 or BT 205A1-135 or BT 204-127, as applicable to helicopter model.</p> <p style="text-align: center;">Table 1 – Inspection of Nuts P/N MS21042L4</p> <table border="1"> <thead> <tr> <th>Helicopter Model</th><th>Compliance Time</th></tr> </thead> <tbody> <tr> <td>AB 412, AB 412EP</td><td>Within 25 FH after 23 September 2014 [the effective date of EASA AD 2014-0203].</td></tr> <tr> <td>AB 212</td><td>Within 25 FH after 25 June 2015 [the effective date of EASA AD 2015-0106].</td></tr> <tr> <td>AB 204B, AB 205A1</td><td>Within 25 FH after the effective date of this AD.</td></tr> </tbody> </table> <p>(2) If, during any inspection as required by paragraph (1) of this AD, any nut P/N MS21042L4 is found cracked, before next flight, replace each nut with a serviceable nut P/N NAS1805-4 in accordance with the instructions of AgustaWestland BT 412-141 or BT 212-206 or BT 205A1-135 or BT 204-127, as applicable.</p> <p>(3) Unless already accomplished as required by paragraph (2) of this AD, within the compliance time as specified in Table 2 of this AD, as applicable, replace each nut P/N MS21042L4 installed on the suspension assembly P/N 204-072-915-XXX of the external cargo suspension hook with a serviceable nut P/N NAS1805-4 in accordance with the instructions of AgustaWestland BT 412-141 or BT 212-206 or BT 205A1-135 or BT 204-127 as applicable.</p> <p style="text-align: center;">Table 2 – Replacement of Nuts P/N MS21042L4</p> <table border="1"> <thead> <tr> <th>Helicopter Model</th><th>Compliance Time</th></tr> </thead> <tbody> <tr> <td>AB 412, AB 412EP</td><td>Within 3 months after 23 September 2014 [the effective date of EASA AD 2014-0203].</td></tr> <tr> <td>AB 212</td><td>Within 3 months after 25 June 2015 [the effective date of EASA AD 2015-0106].</td></tr> <tr> <td>AB 204B, AB205A1</td><td>Within 3 months after the effective date of this AD.</td></tr> </tbody> </table> | Helicopter Model | Compliance Time | AB 412, AB 412EP | Within 25 FH after 23 September 2014 [the effective date of EASA AD 2014-0203]. | AB 212 | Within 25 FH after 25 June 2015 [the effective date of EASA AD 2015-0106]. | AB 204B, AB 205A1 | Within 25 FH after the effective date of this AD. | Helicopter Model | Compliance Time | AB 412, AB 412EP | Within 3 months after 23 September 2014 [the effective date of EASA AD 2014-0203]. | AB 212 | Within 3 months after 25 June 2015 [the effective date of EASA AD 2015-0106]. | AB 204B, AB205A1 | Within 3 months after the effective date of this AD. |
| Helicopter Model                           | Compliance Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                  |                 |                  |                                                                                 |        |                                                                            |                   |                                                   |                  |                 |                  |                                                                                    |        |                                                                               |                  |                                                      |
| AB 412, AB 412EP                           | Within 25 FH after 23 September 2014 [the effective date of EASA AD 2014-0203].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                  |                 |                  |                                                                                 |        |                                                                            |                   |                                                   |                  |                 |                  |                                                                                    |        |                                                                               |                  |                                                      |
| AB 212                                     | Within 25 FH after 25 June 2015 [the effective date of EASA AD 2015-0106].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |                 |                  |                                                                                 |        |                                                                            |                   |                                                   |                  |                 |                  |                                                                                    |        |                                                                               |                  |                                                      |
| AB 204B, AB 205A1                          | Within 25 FH after the effective date of this AD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |                 |                  |                                                                                 |        |                                                                            |                   |                                                   |                  |                 |                  |                                                                                    |        |                                                                               |                  |                                                      |
| Helicopter Model                           | Compliance Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                  |                 |                  |                                                                                 |        |                                                                            |                   |                                                   |                  |                 |                  |                                                                                    |        |                                                                               |                  |                                                      |
| AB 412, AB 412EP                           | Within 3 months after 23 September 2014 [the effective date of EASA AD 2014-0203].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                  |                 |                  |                                                                                 |        |                                                                            |                   |                                                   |                  |                 |                  |                                                                                    |        |                                                                               |                  |                                                      |
| AB 212                                     | Within 3 months after 25 June 2015 [the effective date of EASA AD 2015-0106].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |                 |                  |                                                                                 |        |                                                                            |                   |                                                   |                  |                 |                  |                                                                                    |        |                                                                               |                  |                                                      |
| AB 204B, AB205A1                           | Within 3 months after the effective date of this AD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                  |                 |                  |                                                                                 |        |                                                                            |                   |                                                   |                  |                 |                  |                                                                                    |        |                                                                               |                  |                                                      |

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|                    | <p>(4) Replacement of each nut on a helicopter as required by paragraph (2) or (3) of this AD, as applicable, constitutes terminating action for the repetitive inspections required by paragraph (1) of this AD for that helicopter.</p> <p>(5) Do not install a nut having a P/N MS21042L4 on the suspension assembly of the external cargo suspension hook on any helicopter as required by paragraph (5.1) or (5.2) of this AD, as applicable.</p> <p>(5.1) For helicopters with nuts P/N MS21042L4 currently installed on the suspension assembly: after nut replacement, as required by paragraph (2) or (3) of this AD, as applicable.</p> <p>(5.2) For helicopters with no nuts P/N MS21042L4 currently installed on the suspension assembly: from the effective date of this AD.</p>                                                                                                                                                                                                                                       |
| Ref. Publications: | <p>AgustaWestland BT 412-141 original issue dated 05 September 2014.</p> <p>AgustaWestland BT 212-206 original issue dated 22 May 2015.</p> <p>AgustaWestland BT 204-127 original issue dated 24 June 2015.</p> <p>AgustaWestland BT 205A1-135 original issue dated 24 June 2015.</p> <p>The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Remarks:           | <ol style="list-style-type: none"> <li>1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.</li> <li>2. Based on the required actions and the compliance time, EASA have decided to issue a Final AD with Request for Comments, postponing the public consultation process until after publication.</li> <li>3. Enquiries regarding this AD should be referred to the Safety Information Section, Certification Directorate, EASA. E-mail: <a href="mailto:ADs@easa.europa.eu">ADs@easa.europa.eu</a>.</li> <li>4. For any question concerning the technical content of the requirements in this AD, please contact:<br/> AgustaWestland S.p.A., Customer Support &amp; Services – Italy,<br/> Product Support Engineering DPT, via Giovanni Agusta 520,<br/> 21017 Cascina Costa di Samarate (VA) – Italy<br/> Telephone: +39 0331 711439, Fax: +39 0331 225988,<br/> E-mail: <a href="mailto:absereng@agustawestland.com">absereng@agustawestland.com</a>.</li> </ol> |