TEMPORARY REVISION

MM-TR-MDC-E4-414

Two-mass-flywheel and Hub

This Temporary Revision MM-TR-MDC-E4-414 is approved in conjunction with the Design Change Advisory MDC-E4-414 and is valid in conjunction with the latest revision of the Maintenance Manual (MM) until this Temporary Revision has been incorporated into the MM.

The limitations and information contained herein either supplement or, in the case of conflict, override those in the MM.

The technical information contained in this document has been approved under the authority of DOA ref. EASA.21J.0399.

<table>
<thead>
<tr>
<th>Doc. Nr.</th>
<th>Affected Section(s)</th>
<th>Affected Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>E4.08.04</td>
<td>05, 85</td>
<td>5b, 19e-h</td>
</tr>
</tbody>
</table>

Instruction:

- Print this document on yellow paper (single-sided)
- Insert this cover page as the first page of the MM
- Insert the other pages of this Temporary Revision adjacent to or in front of the corresponding MM pages
05-20-01 Two-Mass-Flywheel

The existing CAUTION "In case of a damaged hub, replace also the two-mass-flywheel!" is replaced by the following:

In case of an unserviceable hub or two-mass-flywheel, always replace both components.

The serial numbers of the hub and the flywheel must match, if both are marked with serial numbers!
85-10-60  Two-Mass-Flywheel

The following is added:

CAUTION
In case of an unserviceable hub or two-mass-flywheel, always replace both components.

CAUTION
The serial numbers of the hub and the flywheel must match, if both are marked with serial numbers!

CAUTION
Make sure to install a hub and a two-mass-flywheel approved for your engine configuration!

The sequence of the existing instructions of the following chapter is changed:

85-10-62  Installation of the Two-Mass-Flywheel

1. Position the two-mass-flywheel on the crankshaft of the engine.

CAUTION
Pay attention to the aligning pin!

2. Lock the two-mass-flywheel with the flywheel locking tool [1].
3. Use new 8 screws [4] and tighten them finger-tight in a crosswise sequence.

CAUTION
Always use new screws for the re-installation of a two-mass flywheel.

4. Make sure the teflon ring does not cover the tapped holes and has sufficient clearance for the screw heads.
5. Tighten up all 8 screws [4] in a crosswise sequence with the first step 45 Nm and the second step with 90°.

If the hub cannot be aligned without applying force, conduct the following steps:

- Put the hub with the centering hole onto the centering pin #1 of the secondary mass. The hub may be only supported onto the other centering pin #2. The hub may be forming an angle between the flange of the hub and the flange of the secondary mass.
- Put e.g. a lever bar (slotted), approximately 8 mm thick, between the secondary and primary mass at the centering pin #1. Do not damage the two-mass flywheel when applying a gently counter force during tapping with the soft face hammer!
- Gently tap with a soft faced hammer onto the hub at the centering hole. The hub should slip onto the centering pin #2 at the elongated centering hole during tapping onto the centering hole for centering pin #1. Otherwise, put also e.g. a lever bar (slotted), approximately 8 mm thick, between the secondary and primary mass at the centering bore #2 and tap with a soft face hammer onto the hub at the elongated centering hole.
Gently tapping with soft faced hammer

Centering pin #1

Centering pin #2

Slotted lever bar approx. 8 mm thick

Fig. 85 – 31d

Slotted lever bar

Fig. 85 – 31e

Fig. 85 – 31f
Make sure that the hub is correctly aligned at the flange of the secondary mass before tightening the screws.

Make sure that the components will not get damaged during tapping onto the hub! Ensure that the centering pins remain in their positions during tapping!

7. Tighten up the 8 screws [2] with 25 Nm.

No gap must be visible between the flange of the hub and the flange of the secondary mass after tightening the screws! If a gap is visible after tightening the screws and/or the centering pins are not in the correct position, replace the hub and the two-mass-flywheel. For further details, refer to Chapters 85-10-63 and 85-10-65.

8. Remove the flywheel locking tool [1].
9. Install the crankshaft sensors - refer to Chapter 76-00-32
10. Connect the crankshaft sensor plugs.
11. Attach the ground strips of the crankshaft sensor plugs
12. Install the gearbox - refer to Chapter 85-10-12.
13. Install the starter – refer to Chapter 80-00-12.
14. Perform an engine ground run according to Chapter 71-00-03.
15. After the ground run inspect gearbox oil system for leakage.