

	<p>For the reasons stated above, this new AD:</p> <ul style="list-style-type: none"> - retains partially the requirements of AD 2007-0112 which is superseded; - requires Eddy Current inspections to be done with the corrected tool kits as instructed in Messier Dowty SB 631-32-191 Rev 2. - requires re-inspection at a reduced interval of all affected MLG side brace assemblies previously inspected with the defective tool kits. - requires as terminating action of this AD, installation of new side braces protected by sealant. 										
Effective Date:	17 October 2007										
Compliance:	<p><u>Note 1</u>: Unless otherwise specified, the Flight Cycles (FC) and times indicated in this directive must be interpreted as Total Cycles Since Overhaul (TCSO) or time since overhaul (TSO) and as Total Cycles Since New (TCSN) or time since manufacture for side brace assemblies that have not undergone any overhaul yet.</p> <p>INSPECTIONS OF THE SIDE BRACE ASSEMBLIES</p> <p>1. For MLG side brace assemblies P/N D22710000 without suffix “-9”.</p> <p>1.1 For MLG side brace assemblies NOT previously inspected per <u>Revision 1 of Messier Dowty SB 631-32-191</u>, perform the first Eddy current inspection in accordance with the accomplishment instructions of Messier Dowty SB 631-32-191 Revision 2 at thresholds given in Table 1:</p> <table border="1" data-bbox="521 993 1369 1402"> <thead> <tr> <th colspan="2" data-bbox="521 993 1369 1024">Table 1</th> </tr> <tr> <th data-bbox="521 1024 943 1157">For MLG Side Brace Assembly with TCSN or TCSO on 11 May 2007 [effective date of AD 2007-0112]</th> <th data-bbox="943 1024 1369 1157">after 11 May 2007 do the initial Eddy current inspection</th> </tr> </thead> <tbody> <tr> <td data-bbox="521 1157 943 1199">More than 8 000 FC</td> <td data-bbox="943 1157 1369 1199">Within the next 500 FC</td> </tr> <tr> <td data-bbox="521 1199 943 1304">Between 5 000 and 8 000 FC</td> <td data-bbox="943 1199 1369 1304">Within the next 1 000 FC or before accumulating 8 500 FC, whichever occurs first</td> </tr> <tr> <td data-bbox="521 1304 943 1402">Less than 5 000 FC</td> <td data-bbox="943 1304 1369 1402">Within the next 2 000 FC or before accumulating 6 000 FC, whichever occurs first.</td> </tr> </tbody> </table> <p><u>Note 2</u>: Prior to the inspection, it is necessary to disconnect the hydraulic pipe from the MLG side brace unlocking actuator. Refer to ATR Technical Instruction No.ATR42-07-01 for aircraft preparation, hydraulic pipe disconnection and reconnection, and for subsequent landing gear normal extension and retraction functional tests.</p> <p>1.2 For MLG side brace assemblies previously inspected per <u>revision 1 of Messier Dowty SB 631-32-191</u>, within the next 1 000 FC from the last inspection or within the next 200 FC after the effective date of this AD, whichever occurs later, perform an Eddy current inspection on MLG side brace assemblies in accordance with the accomplishment instructions of Messier Dowty SB 631-32-191 Revision 2.</p> <p>1.3 After accomplishment of § 1.1 or 1.2 of this AD, repeat at intervals not to exceed 2 600 FC, the Eddy current inspection of the MLG side brace in accordance with the accomplishment instructions of Messier Dowty SB 631-32-191 Revision 2;</p>	Table 1		For MLG Side Brace Assembly with TCSN or TCSO on 11 May 2007 [effective date of AD 2007-0112]	after 11 May 2007 do the initial Eddy current inspection	More than 8 000 FC	Within the next 500 FC	Between 5 000 and 8 000 FC	Within the next 1 000 FC or before accumulating 8 500 FC, whichever occurs first	Less than 5 000 FC	Within the next 2 000 FC or before accumulating 6 000 FC, whichever occurs first.
Table 1											
For MLG Side Brace Assembly with TCSN or TCSO on 11 May 2007 [effective date of AD 2007-0112]	after 11 May 2007 do the initial Eddy current inspection										
More than 8 000 FC	Within the next 500 FC										
Between 5 000 and 8 000 FC	Within the next 1 000 FC or before accumulating 8 500 FC, whichever occurs first										
Less than 5 000 FC	Within the next 2 000 FC or before accumulating 6 000 FC, whichever occurs first.										

1.4 If any defect is found on the side brace assembly during the inspections as required by § 1.1, 1.2 and 1.3 of this AD, replace the affected side brace within the compliance times given in Table 2:

Table 2	
If the depth of detected defect is:	Replace the side brace:
More than 0.3 mm	Before next flight
From 0.15 mm to 0.3 mm	Within the next 200 FC after the detection date

Note 3: Indications less than 0.15 mm (half of the calibration signal) are considered as not significant.

MODIFICATION / RE-IDENTIFICATION OF THE SIDE BRACE ASSEMBLIES

2. During the next application of ATR42 MRBR task 321000-01 or 321000-01A (removal of MLG and associated brace assemblies for restoration) after the effective date of this AD, but not later than:
 - accumulating 16 000 FC or 8.5 years (ref. Note 1), whichever occurs first; or
 - accumulating 19 000 FC or 8.5 years (ref. Note 1), whichever occurs first for side brace assemblies incorporating MESSIER DOWTY SB 631-32-072 (refer to MESSIER DOWTY Service Letter (SL) 631-32-139),

2.1 Inspect the MLG side brace assemblies P/N D22710000 without suffix “-9” in accordance with the accomplishment instructions of MESSIER DOWTY Service Bulletin 631-32-194;and

2.2 Modify and re-identify (by adding after modification a suffix “-9” to P/N D22710000) the MLG side brace assemblies as indicated in the accomplishment instructions of the MESSIER DOWTY Service Bulletin 631-32-194.

FURTHER INSTALLATIONS OF THE SIDE BRACE ASSEMBLIES

3. Before 31 December 2015, replace any remaining unmodified MLG side brace assembly P/N D22710000 without suffix “-9” with assemblies P/N D22710000 with suffix “-9” in accordance with the accomplishment instructions of Service Bulletin ATR42-32-0092.
4. After 31 December 2015, no person shall install MLG side brace assembly P/N D22710000 without suffix “-9” on any ATR 42-200, 42-300 and 42-320 series aircraft.

Ref. Publications:

Service Bulletin ATR 42-32-0092 original issue;
 Messier Dowty SB 631-32-191 revision 2, SB 631-32-194 and 631-32-072, original issues
 Messier Dowty Service Letter No 631-32-139
 ATR Technical Instruction No. ATR42-07-01 original Issue.
 Any later approved revision of these documents is acceptable

Remarks:

1. If requested and appropriately substantiated, EASA can accept Alternative Methods of Compliance for this AD.
2. This AD was initially posted as PAD 07-129 for public consultation on 09 August 2007 and re-submitted to consultation as PAD 07-129R1 until 21 September 2007. The Comment Response Document can be found at

	<p>http://ad.easa.europa.eu</p> <ol style="list-style-type: none">3. Enquiries regarding this AD should be referred to the AD Focal Point - Certification Directorate, EASA. E-mail: ADs@easa.europa.eu4. For any question concerning the technical content of the requirements in this AD, please contact: ATR - GIE Avions de Transport Régional, Continued Airworthiness Service, 1, allée Pierre Nadot - 31712 Blagnac cedex France, Tel.: +33 (0)5 62 21 62 21 - Fax: +33 (0) 5 62 21 67 18; Email: continued.airworthiness@atr.fr
--	---