EASA	EMERGENCY AIRWORTHINESS DIRECTIVE
	AD No.: 2011-0041-E **Date: 10 March 2011** Note: This Emergency 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

This EAD is issued in accordance with EC 1702/2003, Part 21A.3B. In accordance with EC 2042/2003 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 [EC 2042/2003 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [EC 216/2008, Article 14(4) exemption].

Type Approval Holder's Name :	**Type/Model designation(s) :**
AIRBUS	A380 aeroplanes

TCDS Number :	EASA.A.110
Foreign AD :	Not applicable
Supersedure :	None

ATA 27	**Flight Controls – Aileron and Elevator Servo Controls – Electronic Centralized Aircraft Monitoring (ECAM) and Aircraft Flight Manual (AFM) Changes / Installation Prohibition**
Manufacturer(s):	Airbus (formerly Airbus Industrie)
Applicability:	Airbus A380-841, A380-842 and A380-861 aeroplanes, all Manufacturer Serial Numbers (MSN).
Reason:	During production, an abnormal presence of hydraulic fluid at front ram bearing static seal area was found on several Aileron Servo Controls (S/C). Investigation revealed that these leaks were due to defective seals. The batch of Aileron S/C and Elevator S/C affected by this seal issue has been identified by Part Number (P/N) and serial number (s/n) and is listed in Appendix 1 of this AD. The defective seals could lead to an external leakage or seepage at the level of the rear and front bearings of the S/C. The hydraulic leak and seepage rate resulting from defective seals does not lead to the loss of the aircraft hydraulic circuit. However, if the leak is combined with the loss of the associated hydraulic system, the S/C may lose the damping mode after the accumulator is emptied. Depending on the number of S/C affected and their location, some remote failure combinations occurring during specific flight conditions could lead to non damped surfaces oscillations. This condition, if not corrected, could reduce the ability of the flight crew to maintain the safe flight of the aeroplane.

	To prevent non damped surface oscillations from occurring, this AD requires: • Installation of Airbus Temporary Quick Change (ATQC) database and activation of ECAM Temporary Change (ETC), • Introduction of Aircraft Flight Manual Temporary Revision (AFM TR), and prohibits further installation of the affected S/C. An action plan is under development that would allow removal of the ATQC/ETC and AFM TR. When that has been approved, this AD will be revised accordingly.
Effective Date:	14 March 2011
Required Action(s) and Compliance Time(s):	Required as indicated, unless already accomplished: (1) **For aeroplanes with MSN 003, 009, 010, 023, 025, 028, 030, 038, 041, 042, 043, 044, 046, 048, 049, 051, 056 and 057:** Within 3 days after the effective date of this AD, accomplish the following actions concurrently: (1.1) Install ATQC V11 L50 and activate ETC No. 0038 in accordance with Airbus All Operator Telex (AOT) A380-27A8027, (1.2) Amend the applicable AFM by inserting a copy of AFM TR 83 or 84, as applicable to MSN, and thereafter operate the aeroplane in accordance with the instructions contained in the AFM TR. (2) **For all MSN:** After the effective date of this AD, do not install on any aeroplane an S/C with P/N 31132-080, P/N 31132-100, P/N 31132-110, or P/N 31132-150, identified by s/n in Appendix 1 of this AD, unless it has been repaired in accordance with the instructions of Airbus AOT A380-27A8027.
Ref. Publications:	Airbus AOT A380-27A8027 at original issue dated 07 March 2011. AFM TR 83 issue 1 and TR 84 issue 1. The use of later approved revisions of these 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. 2. The safety assessment has requested not to implement the full consultation process and an immediate publication and notification. 3. Enquiries regarding this AD should be referred to the Airworthiness Directives, Safety Management & Research Section, Certification Directorate, EASA. E-mail: ADs@easa.europa.eu . 4. For any question concerning the technical content of the requirements in this AD, please contact: AIRBUS SAS - EIANA (Airworthiness Office), Phone: +33 562110253 ; Fax:+33 562 110 307. E-mail: account.airworth-A380@airbus.com and Nicolas.Cordeau@airbus.com;

Appendix 1: Part Number (P/N) and serial number (s/n) of affected S/C

P/N	s/n
31132-080	3113200307 and 3113200309.
31132-100	3113200317, 3113200319, 3113200324, 3113200328, 3113200329, 3113200330, 3113200331, 3113200332, 3113200333, 3113200334 and 3113200339.
31132-110	3113200030, 3113200031, 3113200032, 3113200033, 3113200035, 3113200036, 3113200038, 3113200060, 3113200063, 3113200065, 3113200067, 3113200074, 3113200075, 3113200083, 3113200089, 3113200116, 3113200139, 3113200220, 3113200250, 3113200287, 3113200305, 3113200306, 3113200308, 3113200310, 3113200311, 3113200312, 3113200313, 3113200314, 3113200315 and 3113200316.
31132-150	3113200318, 3113200320, 3113200321, 3113200322, 3113200323, 3113200325, 3113200326, 3113200327, 3113200335, 3113200336, 3113200337, 3113200338, 3113200340, 3113200341, 3113200342, 3113200343, 3113200344, 3113200345, 3113200346, 3113200347, 3113200348, 3113200349, 3113200350, 3113200351, 3113200352, 3113200353, 3113200354, 3113200355, 3113200356, 3113200357, 3113200358, 3113200359, 3113200360, 3113200361, 3113200362, 3113200363, 3113200364, 3113200365, 3113200366, 3113200367, 3113200368, 3113200369, 3113200370, 3113200371, 3113200372, 3113200373, 3113200374, 3113200375, 3113200376, 3113200377, 3113200378, 3113200379, 3113200380, 3113200381, 3113200382, 3113200383, 3113200384, 3113200385, 3113200386, 3113200387, 3113200388, 3113200389, 3113200390, 3113200391, 3113200392, 3113200393, 3113200394, 3113200395, 3113200396, 3113200397, 3113200398, 3113200399, 3113200400, 3113200401, 3113200402, 3113200403, 3113200404, 3113200409, 3113200410, 3113200411, 3113200414, 3113200418, 3113200419, 3113200420, 3113200421, 3113200422, 3113200423, 3113200424, 3113200425, 3113200426, 3113200427, 3113200428, 3113200429, 3113200432, 3113200437, 3113200438, 3113200439, 3113200441, 3113200442, 3113200443, 3113200444, 3113200445, 3113200446, 3113200447, 3113200448, 3113200449, 3113200450, 3113200451, 3113200452, 3113200453, 3113200454, 3113200455, 3113200456, 3113200457, 3113200458, 3113200459, 3113200460, 3113200461, 3113200462, 3113200463, 3113200465, 3113200466, 3113200467, 3113200468, 3113200469, 3113200470, 3113200471, 3113200473, 3113200474, 3113200475, 3113200476, 3113200477, 3113200478, 3113200479, 3113200480, 3113200481, 3113200482, 3113200483 and 3113200484.