



Ministerio de Fomento  
Subsecretaría  
Dirección General de Aviación Civil

**AIRWORTHINESS**

**DIRECTIVE**

NUMBER:  
01/02

SHEET:  
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**AFFECTED PRODUCT:** Aircraft CASA C-212 series -100; -200; -300 and -400.

**MANUFACTURER:** CONSTRUCCIONES AERONAUTICAS S.A. (CASA).

**ISSUE DATE:** April 17th, 2002.

**REFERENCE:** CASA Service Bulletin 212-32-21 "Avoid Slackening of Nose Landing Gear Components", Rev.2. CASA Service Bulletin 212-32-22 "Landing Gear. Nose wheel steering system. Modification of the hydraulic installation.", Rev.2., and Communications from EADS-CASA COM 212-172 Rev Nr 4, and COM 212-173 Rev. Nr 3.

**EFFECTIVE:** Thirty (30) days from the issue date.

**DESCRIPTION:** Failures in the auxiliary landing gear direction system has been reported, producing abnormal vibrations during the take off and landing runs. The failure is caused by a gradual lost of hydraulic oil pressure of the selector valve of direction and by a lost of tension in cables.

- With the purpose of correcting the slackening of the components caused by vibrations, the unions between the steering actuator and landing gear lower attachment fitting, must be reinforced, in accordance with instructions given by the Service Bulletin 212-32-21, except when it has already been incorporated, either in service, or during manufacturing.
- Also and as complement to the previous action, the steering system hydraulic installation, must be modified subsequently, changing the valves, putting a restrictor and providing to the installation with a pressurization system and constant control, following the instructions given by the Service Bulletin 212-32-22, except when it has already been incorporated either in service or during the manufacturing.
- Finally, to complete the incorporation of this Airworthiness Directive, the paragraph "Nose wheel malfunction" of the AFM, must be, in a revision status which incorporate, in the phrase "during take-off run", the following text: "Initiate (or "perform") normal RTO procedures".
- Check the cable tension of the nose wheel steering system every 600 FH or before when abnormal vibration occurs. (See COM 172 Rev. Nr 4, and COM 173 Rev. Nr 3).

**COMPLIANCE SCHEDULE:** The requirements of this Airworthiness Directive shall be complied within six (6) months after the affectivity date.

**ADDITIONAL INFORMATION:** For further information contact:  
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