

**GOVERNMENT OF INDIA
OFFICE OF THE DIRECTOR GENERAL OF CIVIL AVIATION**

AIR SAFETY CIRCULAR NO 11 OF 1993

Subject: Operation of undercarriage system.

In the recent past there have been accidents to some aircraft due to malfunction in their electromechanical undercarriage extension/retraction systems. In these cases undercarriage could not be lowered and down locked even with emergency extension. The investigation of these accidents is under progress. However, it appears that excessive force was required to operate the emergency extension system. The lubrication at the bearings, hinges and bushes and at other required places in the mechanism was found not fully satisfactory which may have been a factor to the excessive force required to operate the emergency extension system. Proper lubrication in the mechanism is to be assured all the time.

Care is also needed while carrying out the different maintenance schedules in respect of undercarriage mechanism to ensure that various portions of moving linkages have proper clearances around during the complete travel of undercarriage to avoid interference in the operating system.

It is also recommended that during the undercarriage emergency extension ground checks, the pilots operating the aircraft are given the feel of its operation.

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Director Air Safety
for Director General of Civil Aviation
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