

Radio Communication and Navigation Equipment

AD/RAD/52

**Rockwell International, Collins Air
Transport Division DME-700**

4/94

Applicability: Rockwell International, Collins Air Transport Division, DME- 700 Distance Measuring Equipment, all serial numbers, with the following part numbers:

622-4540-020, 622-4540-021, 622-4540-022, 622-4540-120, and 622-4540-121.

Note: These equipments are known to be installed on, but not limited to the following aircraft series:

Airbus Industrie *A300, A310, A300-600, A320 and A340*

Boeing *737, 747-400, and 767*

Fokker *F-100*

McDonnell Douglas *MD-11 and MD-80*

Requirement: Unless previously accomplished, incorporate Collins Air Transport Division Service Bulletins in accordance with the following Table:

Collins SB	Dated	Applicable DME-700 Part Numbers
SB 20 Revision 1	30 August 1991	622-4540-020 and -120, with serial numbers 1 through 4247 inclusive.
SB 25	11 November 1992	622-4540-020,, -021 and -022. SB 20 Revision 1 must be installed on applicable part numbers, prior to, or in conjunction with SB 25. SB 24 is incorporated by SB 25.
SB 26	21 October 1992	622-4540-120 and -121. SB 20 Revision 1 must be incorporated in applicable part numbers, prior to, or in conjunction with SB 25. SB 26 eliminates the requirement for SB 21.

Note: FAA AD 94-02-02 Amdt 39-8799 refers.

Compliance: Prior to 31 March 1995.

Background: Several operators have reported random instances of erroneous DME indications, the affected units failing to process and update distance outputs. Additionally, some units have been reported as establishing a continuous restart mode upon application of power. These conditions are known colloquially as 'sleeping' or 'deaf' modes of operation. Compliance with this Directive will effectively prevent units from displaying these characteristics.

