



MU-2

SERVICE NEWS

MITSUBISHI HEAVY INDUSTRIES, LTD.
NAGOYA AEROSPACE SYSTEMS WORKS
10, OYE-CHO, MINATO-KU, NAGOYA, JAPAN

JCAB T.C. : No.167
FAA T.C. : No.120/39-001

DATE: August 9, 2011

SUBJECT: Voice Alerting System for MU-2B Airplanes – STC SA01300WI

MODELS AFFECTED: All MU-2B Airplanes

A Voice Alerting System has been designed and FAA approved for installation on MU-2B airplanes. It is a supplementary system to alert pilots to up to ten different possible abnormal or emergency configurations on MU-2B airplanes. This system is in addition to existing, approved, audio warning systems of the MU-2B airplane. The Voice Alerting System provides human voice alerts that identify the perceived disagreement between the set configuration and mode of flight. This plain English alert can be sent to both pilot's and copilot's headsets.

The following specific human voice alerts are provided for the identified unusual configurations:

1. "ADVANCE CONDITION LEVERS" when condition levers are not set for takeoff and power levers are advanced for takeoff.
2. "SET FLAPS" when flaps not set to 5 or 20 for takeoff
3. "CABIN PRESSURE LOW" when maximum cabin pressure altitude is exceeded.
4. "STALL" when stick shaker actuates.
5. "PUT GEAR DOWN" when flaps are selected to 20 or 40 after gear has been selected UP after takeoff. This is a non cancelable alert.
6. "VOLTAGE LOW" when aircraft voltage drops below 22 VDC.
7. "CHECK LANDING GEAR CIRCUIT BREAKER" sounds every 10 minutes when the landing Gear Position Indicator Circuit Breaker has been pulled to conduct the flight idle fuel flow check.
8. "ALTITUDE" when the airplane is within +/- 1,000 ft of pre-selected altitude or deviations of +/-300 ft from selected altitude.
9. "AUTOPILOT DISCONNECTING" when autopilot is disconnected either by the pilot or by the Automatic Autopilot Disconnect System. For aircraft equipped with Automatic Autopilot Disconnect System per STC SA00489WI and Trim In Motion Alerting System per STC SA00491WI or per Service Bulletin SB 093/22-009 or SB 231 or those aircraft equipped with Sperry SPZ-500 Autopilot Systems.
10. "ICING" when the ice detector senses an icing condition. Applicable for aircraft equipped with Ice Detector per STC SA00601WI or per Service Bulletin SB 080/30-003 or SB 217.

When an ice detector is installed several other voice alerts associated with icing conditions are provided.

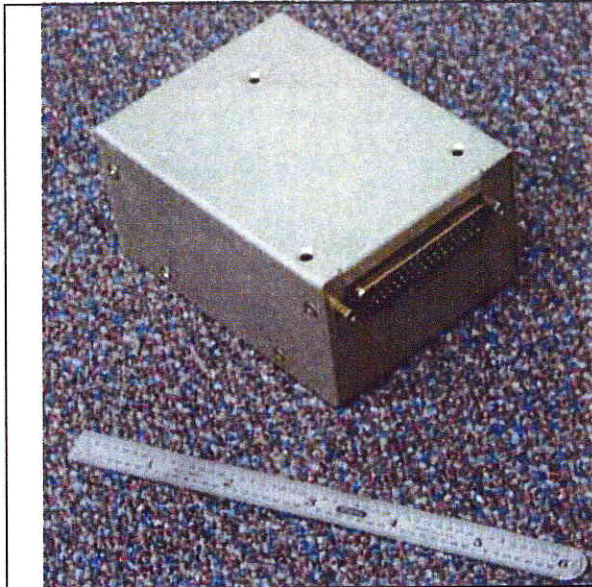
1. "SET CONTINUOUS IGNITION" when one or both ignition switches are not set to Continuous.
2. "SET ENGINE ANTI-ICE" when one or both engines intake anti-ice are not ON.
3. "CHECK WING DE-ICE" when wing de-ice is not ON while operating in icing conditions.

All voice alerts have internal logic to minimize the potential for nuisance alerts.

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The Voice Alert System is an all electronic system that monitors various aircraft signals

The system is contained in a small, light-weight package that installs in the forward cockpit area.

It is completely compatible with existing MU-2B systems.

PN MU2-10201-1 Voice Alert Equipment Assembly

RECOMMENDATION

MHI and MHIA recommend that Owners and Operators of MU-2B airplanes consider incorporation of the voice alert system to provide an extra layer of alerting to unusual conditions. The system provides the same alerting benefits to operators of the Long Body and Short Body models. Safety is enhanced when it is installed in conjunction with the Automatic Autopilot Disconnect System and Ice Detector. Some additional wiring is required but no new sensors are installed.

Installation is covered under STC SA01300WI and PMA Approved parts are available from Mitsubishi Heavy Industries America or any MHIA Authorized Service Center.