

2010-10-17 Mitsubishi Heavy Industries, Ltd.: Amendment 39-16296; Docket No. FAA-2009-1076; Directorate Identifier 2009-CE-019-AD.

Effective Date

(a) This AD becomes effective on July 22, 2010.

Affected ADs

(b) This AD supersedes AD 97-25-02, Amendment 39-10225;

AD 2000- 02-25, Amendment 39-11543;

AD 2006-15-07, Amendment 39-14687; and

AD 2006-17-01, Amendment 39-14722.

Applicability

(c) This AD applies to the following airplane models and serial numbers that are certificated in any category:

Table 1--Mitsubishi Heavy Industries, Ltd., (MHI) Airplanes Listed in Type Certificate Data Sheet (TCDS) A10SW

Models	Serial Numbers
MU-2B-25, MU-2B-26, MU-2B-26A, MU-2B-36A, MU-2B-40, and MU-2B-60	All serial numbers
MU-2B-35 and MU-2B-36	There are no serial numbers for MU-2B-35 or MU-2B-36 under TCDS A10SW.

Table 2--MHI Airplanes Listed in TCDS A2PC

Models	Serial Numbers
MU-2B, MU-2B-10, MU-2B-15, MU-2B-20, MU-2B-25, MU-2B-26, MU-2B-30, MU-2B-35, MU-2B-36	All serial numbers

Unsafe Condition

(d) This AD results from inconsistencies in critical operating procedures between the MU-2B specific training, the FAA-accepted pilot operating checklists, and the airplane flight manuals (AFM). MHI revised the AFMs to align them with the information in that training and the checklists. We are issuing this AD to correct inconsistencies in critical operating procedures between the MU-2B specific training, the FAA-accepted pilot operating checklists, and the AFMs, which, if not corrected, could result in pilots inadvertently taking inappropriate actions in critical operating conditions.

Compliance

(e) Do the following unless already done:

(1) Within 100 hours time-in-service (TIS) after September 22, 2006 (the effective date retained from AD 2006-17-01), inspect the engine torque indication system and, before further flight after the inspection, recalibrate the torque pressure transducers as required. For airplanes listed in TCDS A2PC, follow MHI MU-2 Service Bulletin No. 233A, dated January 14, 1999 or MHI MU-2 Service Bulletin No. 233B, dated March 8, 2007. For airplanes listed in TCDS A10SW, follow MHI MU-2 Service Bulletin No. 095/77-002, dated July 15, 1998. This inspection requires the use of the following power assurance charts as applicable:

(i) If you have not incorporated the AFM revisions required in paragraph (e)(2) of this AD: Use the power assurance charts referenced in Table 3 below; or

(ii) If you have already incorporated the AFM revisions required in paragraph (e)(2) of this AD: Use the power assurance charts in section 6 of the revised AFMs required by paragraph (e)(2) of this AD.

Table 3--Power Assurance Chart From AD 2006-17-01

TCDS	Airplane Model Affected	Date and Version of AFM	Page Number from AFM
A2PC	MU-2B	AFM, Section 6, Reissued March 5, 1987, Revision 9, dated January 14, 1999	6-34
	MU-2B-10	AFM, Section 6, Reissued March 5, 1987, Revision 9, dated January 14, 1999	6-19
	MU-2B-15	AFM, Section 6, Reissued March 5, 1987, Revision 9, dated January 14, 1999	6-19
	MU-2B-20	AFM, Section 6, Reissued March 3, 1987, Revision 9, dated January 14, 1999	6-20
	MU-2B-25	AFM, Section 6, Reissued March 3, 1987, Revision 9, dated January 14, 1999	6-19

	MU-2B-26	AFM, Section 6, Reissued March 3, 1987, Revision 9, dated January 14, 1999	6-19
	MU-2B-30	AFM, Section 6, Reissued February 19, 1987, Revision 10, dated January 14, 1999	6-19
	MU-2B-35	AFM, Section 6, Reissued February 19, 1987, Revision 10, dated January 14, 1999	6-19
	MU-2B-36	AFM, Section 6, Reissued February 19, 1987, Revision 9, dated January 14, 1999	6-20
A10SW	MU-2B-25	AFM, Section 6, Reissued March 25, 1986	6-18 and 6-19
	MU-2B-26	AFM, Section 6, Reissued March 25, 1986	6-17 and 6-18
	MU-2B-26A	AFM, Section 6, Reissued March 25, 1986	6-17 and 6-18
	MU-2B-36A	AFM, Section 6, Reissued February 28, 1986	6-20 and 6-21
	MU-2B-40	AFM, Section 6, Reissued March 25, 1986	6-17 and 6-18
	MU-2B-60	AFM, Section 6, Reissued September 24, 1986	6-19 and 6-20

(2) Within the next 50 hours TIS after July 22, 2010 (the effective date of this AD) or within the next 6 months after July 22, 2010 (the effective date of this AD), whichever occurs first, incorporate all revisions up to and including the latest revisions as published in the list of effective pages of the applicable AFM listed in Table 4 and Table 5 of this AD. Assure that the applicable AFM contains each page, matching all the page numbers and page dates, listed in the Effective Pages listing for that AFM. The airplane identification data plate identifies the type certificate number for that airplane:

Table 4--TCDS A10SW

Airplane Model	AFM Name	Effective Pages List
MU-2B-25	MU-2B-25 Airplane Flight Manual K Model, Document Number MR-0156-1	all revised pages up to and including revision 11, dated March 10, 2009, as listed on page 1 and page 2 of the "Effective Pages" in the AFM
MU-2B-26	MU-2B-26 Airplane Flight Manual M Model, Document Number MR-0160-1	all revised pages up to and including revision 11, dated March 10, 2009, as listed on page 1 and page 2 of the "Effective Pages" in the AFM
MU-2B-26A	MU-2B-26A Airplane Flight Manual P Model, Document Number MR-0194-1	all revised pages up to and including revision 13, dated March 10, 2009, as listed on page 1 and page 2 of the "Effective Pages" in the AFM
MU-2B-36A	MU-2B-36A Airplane Flight Manual N Model, Document Number MR-0196-1	all revised pages up to and including revision 15, dated March 10, 2009, as listed on page 1 and page 2 of the "Effective Pages" in the AFM
MU-2B-40	MU-2B-40 Airplane Flight Manual SOLITAIRE Model, Document Number MR-0271-1	all revised pages up to and including revision 13, dated March 10, 2009, as listed on page 1 and page 2 of the "Effective Pages" in the AFM
MU-2B-60	MU-2B-60 Airplane Flight Manual MARQUISE Model, Document Number MR-0273-1	all revised pages up to and including revision 15, dated March 10, 2009, as listed on page 1 and page 2 of the "Effective Pages" in the AFM

Table 5--TCDS A2PC

Airplane Model	AFM Name	Effective Pages List
MU-2B	MU-2B Airplane Flight Manual, YET 67026A	all revised pages up to and including revision 13, dated November 29, 2007, as listed on page 1 and page 2 of the "Effective Pages" in the AFM

MU-2B-10	MU-2B-10 Airplane Flight Manual, YET 86400	all revised pages up to and including revision 13, dated November 29, 2007, as listed on page 1 and page 2 of the "Effective Pages" in the AFM
MU-2B-15	MU-2B-15 Airplane Flight Manual, YET 68038A	all revised pages up to and including revision 13, dated November 29, 2007, as listed on page 1 and page 2 of the "Effective Pages" in the AFM
MU-2B-20	MU-2B-20 Airplane Flight Manual, YET 68034A	all revised pages up to and including revision 13, dated November 29, 2007, as listed on page 1 and page 2 of the "Effective Pages" in the AFM
MU-2B-25	MU-2B-25 Airplane Flight Manual, YET 71367A	all revised pages up to and including revision 13, dated November 29, 2007, as listed on page 1 and page 2 of the "Effective Pages" in the AFM
MU-2B-26	MU-2B-26 Airplane Flight Manual, YET 74129A	all revised pages up to and including revision 13, dated November 29, 2007, as listed on page 1 and page 2 of the "Effective Pages" in the AFM
MU-2B-30	MU-2B-30 Airplane Flight Manual, YET 69013A	all revised pages up to and including revision 14, dated November 29, 2007, as listed on page 1 and page 2 of the "Effective Pages" in the AFM
MU-2B-35	MU-2B-35 Airplane Flight Manual, YET 70186A	all revised pages up to and including revision 14, dated November 29, 2007, as listed on page 1 and page 2 of the "Effective Pages" in the AFM
MU-2B-36	MU-2B-36 Airplane Flight Manual, YET 74122A	all revised pages up to and including revision 13, dated November 29, 2007, as listed on page 1 and page 2 of the "Effective Pages" in the AFM

Alternative Methods of Compliance (AMOCs)

(f) The Manager, FAA, Fort Worth Airplane Certification Office (ACO), has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. Send information to ATTN: Al Wilson, Flight Test Pilot, FAA, Fort Worth ACO, 2601 Meacham Blvd., Fort Worth, Texas 76137; telephone: (817) 222-5146; fax: (817) 222-5960. Before using any approved AMOC on any airplane to which the AMOC applies, notify your appropriate principal inspector (PI) in the FAA Flight Standards District Office (FSDO), or lacking a PI, your local FSDO.

Material Incorporated by Reference

(g) You must use Mitsubishi Heavy Industries, Ltd. MU-2 Service Bulletin No. 233A, dated January 14, 1999; Mitsubishi Heavy Industries, Ltd. MU-2 Service Bulletin No. 095/77-002, dated July 15, 1998; Mitsubishi Heavy Industries, Ltd. MU-2 Service Bulletin No. 233B, dated March 8, 2007; and the AFMs specified in Table 6 of this AD to do the actions required by this AD, unless the AD specifies otherwise. The AFMs and Pilot's Operating Manuals (POMs) are bound together in one book for each airplane model; however, only the AFMs are required to comply with this AD. The POMs are not approved data and are not incorporated by reference; the POMs are not required to comply with this AD.

(1) The Director of the Federal Register approved the incorporation by reference of this service information under 5 U.S.C. 552(a) and 1 CFR part 51.

(2) On September 22, 2006 (71 FR 47699, August 18, 2006) the Director of the Federal Register approved the incorporation by reference of Mitsubishi Heavy Industries, Ltd. MU-2 Service Bulletin No. 095/77-002, dated July 15, 1998; and Mitsubishi Heavy Industries, Ltd. MU-2 Service Bulletin No. 233A, dated January 14, 1999.

(3) For service information identified in this AD, contact Mitsubishi Heavy Industries America, Inc., 4951 Airport Parkway, Suite 800, Addison, Texas 75001; telephone: (972) 934-5480; fax: (972) 934-5488; Internet: <http://www.mu-2aircraft.com> or <http://www.turbineair.com>.

(4) You may review copies of the service information incorporated by reference for this AD at the FAA, Central Region, Office of the Regional Counsel, 901 Locust, Kansas City, Missouri 64106. For information on the availability of this material at the Central Region, call (816) 329-3768.

(5) You may also review copies of the service information incorporated by reference for this AD at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call (202) 741-6030, or go to: http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html.

Table 6--Material Incorporated by Reference

AFM Name	Effective Pages List
MU-2B-25 Airplane Flight Manual K Model, Document Number MR-0156-1	all revised pages up to and including revision 11, dated March 10, 2009, as listed on page 1 and page 2 of the "Effective Pages" in the AFM

MU-2B-26 Airplane Flight Manual M Model, Document Number MR-0160-1	all revised pages up to and including revision 11, dated March 10, 2009, as listed on page 1 and page 2 of the "Effective Pages" in the AFM
MU-2B-26A Airplane Flight Manual P Model, Document Number MR-0194-1	all revised pages up to and including revision 13, dated March 10, 2009, as listed on page 1 and page 2 of the "Effective Pages" in the AFM
MU-2B-36A Airplane Flight Manual N Model, Document Number MR-0196-1	all revised pages up to and including revision 15, dated March 10, 2009, as listed on page 1 and page 2 of the "Effective Pages" in the AFM
MU-2B-40 Airplane Flight Manual SOLITAIRE Model, Document Number MR-0271-1	all revised pages up to and including revision 13, dated March 10, 2009, as listed on page 1 and page 2 of the "Effective Pages" in the AFM
MU-2B-60 Airplane Flight Manual MARQUISE Model, Document Number MR-0273-1	all revised pages up to and including revision 15, dated March 10, 2009, as listed on page 1 and page 2 of the "Effective Pages" in the AFM
MU-2B Airplane Flight Manual, YET 67026A	all revised pages up to and including revision 13, dated November 29, 2007, as listed on page 1 and page 2 of the "Effective Pages" in the AFM
MU-2B-10 Airplane Flight Manual, YET 86400	all revised pages up to and including revision 13, dated November 29, 2007, as listed on page 1 and page 2 of the "Effective Pages" in the AFM
MU-2B-15 Airplane Flight Manual, YET 68038A	all revised pages up to and including revision 13, dated November 29, 2007, as listed on page 1 and page 2 of the "Effective Pages" in the AFM
MU-2B-20 Airplane Flight Manual, YET 68034A	all revised pages up to and including revision 13, dated November 29, 2007, as listed on page 1 and page 2 of the "Effective Pages" in the AFM
MU-2B-25 Airplane Flight Manual, YET 71367A	all revised pages up to and including revision 13, dated November 29, 2007, as listed on page 1 and page 2 of the "Effective Pages" in the AFM
MU-2B-26 Airplane Flight Manual, YET 74129A	all revised pages up to and including revision 13, dated November 29, 2007, as listed on page 1 and page 2 of the "Effective Pages" in the AFM
MU-2B-30 Airplane Flight Manual, YET 69013A	all revised pages up to and including revision 14, dated November 29, 2007, as listed on page 1 and page 2 of the "Effective Pages" in the AFM
MU-2B-35 Airplane Flight Manual, YET 70186A	all revised pages up to and including revision 14, dated November 29, 2007, as listed on page 1 and page 2 of the "Effective Pages" in the AFM
MU-2B-36 Airplane Flight Manual, YET 74122A	all revised pages up to and including revision 13, dated November 29, 2007, as listed on page 1 and page 2 of the "Effective Pages" in the AFM