URGENT

***TB 1–2840–241–20–17**

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

MANDATORY INSPECTION AND REPLACEMENT OF THE FUEL CONTROL, FOR ALL OH–58A/C SERIES AIRCRAFT

Headquarters, Department of the Army, Washington, D. C.
1 June 1999

NOTE

THIS PUBLICATION IS EFFECTIVE UNTIL RESCINDED OR SUPERSEDED.

1. Priority Classification. URGENT.

NOTE

See AR 95–1, paragraph 6–6.a., for noncompliance authority of major commanders.

a. Aircraft in Use. Upon receipt of this TB, the condition status symbol of the cited aircraft will be changed to a **Red Horizontal Dash –**. The **Red Horizontal Dash –** entry shall state "Complete the inspection procedures in paragraph 8 of this TB prior to next flight". The **Red Horizontal Dash –** may be cleared when the inspection of paragraph 8 is completed. The affected aircraft shall be inspected as soon as practical, but no later than the task/inspection suspense date. Failure to comply with the requirements of this TB within the time frame will cause the status symbol to be upgraded to a **Red X**.

b. Aircraft in Depot Maintenance. N/A.

c. Aircraft Undergoing Maintenance. Same as paragraph 1.a.

d. Aircraft in Transit.

(1) Surface/Air Shipment. Same as paragraph 1.a.

(2) Ferry Status. Same as paragraph 1.a.

e. Maintenance Trainers (Category A and B). Same as paragraph 1.a.

***This TB supersedes USAAMCOM Safety of Flight (SOF) Message, 171323Z, MAY 99 OH–58–99–ASAM–06.**

f. Component/Parts in Stock at All Levels (Depot and Others) Including War Reserves. Upon receipt of this TB, the material condition tags of all items in all condition codes listed in paragraph 6 and 7 shall be annotated to read ”OH–58–99–ASAM–06 (TB 1–2840–241–20–17) not complied with”.

NOTE

Any Allied Signal Fuel Control listed in paragraph 8 by serial number which does not have an “H” in the serial number or an “H” in the LI (less issue) block must be placed in condition code “J”.

(1) Wholesale Stock – Report receipt of this TB IAW paragraph 14.c.(1). Upon receipt of this TB all serviceable items (condition codes A, B, C, D, and E) listed in paragraphs 6 and 7 located in wholesale depot storage shall be placed in condition code “J” and tagged with a suspended tag/label – Material, DD Form 1575/DD Form 1575–1. Do not remove original condition tags. Report compliance with this TB IAW paragraph 14.d.(1).

(2) Retail Stock – Upon receipt of this TB Commanders and others maintaining retail stock at installation level and below shall contact the supported aviation unit to perform the inspection required by paragraph 8 and the correction procedures of paragraph 9 on discrepant materiel. Disposition of discrepant materiel will be IAW paragraph 10. Report compliance with this TB IAW paragraph 14.d.(2).

g. Components/Parts in Work (Depot Level and Others). Items listed in paragraphs 6 and 7 in work will not be issued until compliance with this TB.

2. Task/Inspection Suspense Date. Prior to next flight.

3. Reporting Compliance Suspense Date. No later than 07 June 1999 in accordance with paragraph 14.a. of this TB.

4. Summary of the Problem.

a. Allison Engine Company has determined that some Allied Signal (Bendix) Fuel Control Units (FCU)/Main Fuel Control (MFC) Units, new or overhauled since June 1996 may contain springs that have manufacturing damage that will, if spring failure occurs, result in immediate engine deceleration. The serial numbers of those suspected units are listed in paragraph 8.

b. For Manpower/Downtime and Funding Impacts see paragraph 12.

c. The purpose of this TB is to: Inspect all fuel controls to determine those that require repair.

5. End Items to be inspected. All OH–58A/C series aircraft.

6. Assembly Components to be Inspected.

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
Engine, ACFT, Turboshaft	T63–A–720	2840–01–013–1339

7. Parts to be Inspected.

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
Fuel Control, Main	(06848) 2524911–4	2915–01–344–1311

8. Inspection Procedures.

a. Inspect fuel control.

(1) Identify fuel control part number.

(2) Any Allied Signal fuel control manufactured (new) or overhauled since September 1, 1996 which does not have an “H” in the serial number or an “H” in the LI (less issue) block of the data plate with the serial number listed below must be replaced. Go to paragraph 9, correction procedures.

S/N	S/N	S/N	S/N	S/N
54757R	87241184	8640R961	BR53538	BR51859
8624R823	BR52024	8636R881	BR52601	BR54116
BR52028	BR53379	BR52622	BR54968	BR52032
8624R819	87241167	BR53159	BR53165	BR54115
8705R060	BR52683	54747R	8705R061	BR52399
51564R	199062	326035	8705R044	BR55183
BR52631				

b. For any Allied Signal fuel control that has an “H” in the serial number or an “H” in the LI (less issue) block of the data plate, or is not one of the serial numbered units listed in paragraph 8.a. the inspection is complete, no flight restrictions or corrective procedures are required.

9. Correction Procedures.

a. For any Allied Signal fuel controls with a serial number listed in paragraph 8.a. and that does not have an “H” in the serial number or an “H” in the LI block of the data plate, change the status symbol on the DA Form 2408–13 to a **Circled Red X**. The **Circled Red X** entry shall state: “Operations in the avoid and caution zones of the height velocity diagram, figure 9–3, TM 55–1520–228–10, pose an increased flight risk due to possible engine power loss. Flight operation within the avoid/caution areas of the height velocity diagram is prohibited for other than the minimum time required for mission accomplishment”. The **Circled Red X** can be cleared when the correct replacement fuel control is installed.

NOTE

ULLS–A users will use this TB as authority to make the appropriate changes to the component legitimate code file.

b. Fuel control: If the fuel control failed inspection of paragraph 8.a.(2) above, annotate the engine DA Form 2408–16 (blocks 6K and 7, significant historical data) and DA Form 2410 (remarks block), if applicable, that the fuel control requires replacement in 150 aircraft hours.

c. Forward the aircraft mission design series (MDS), serial number, engine serial number (S/N), fuel control S/N, part number and local POC information to the logistical point of contact in paragraph 16.b.. The preferred method of transmittal of data is by E–mail as first choice, then datafax.

10. Supply/Parts and Disposition.

a. Parts Required.

NOMENCLATURE	P/N	NSN
Fuel Control, Main	(06848) 2524911–4	2915–01–344–1311

b. Requisitioning Instructions. Requisition replacement parts using normal supply procedures. All requisitions shall use project code (CC 57–59) “XFH’ (X–RAY–FOX–TROT–HOTEL).

NOTE

Project code “XFH” is required to track and establish a data base of stock fund expenditures incurred by the field as a result of SOF actions.

c. Bulk and Consumable Materials. N/A.

d. Disposition. Hold any discrepant part/component pending disposition instructions from logistical point of contact in paragraph 16.b..

e. Disposition of Hazardous Material. In accordance with Environmental Protection Agency directives as implemented by your servicing environmental coordinator (AR 200–1).

11. Special Tools, Jigs and Fixtures Required. N/A.

12. Application.

a. Category of Maintenance. AVUM. Aircraft downtime will be charged to AVUM maintenance.

b. Estimated Time Required.

(1) Total of 8.0 man–hours using 1 person.

(2) Total of 8.0 hours downtime for one end item.

c. Estimated Cost Impact to the Field.

NOMENCLATURE	P/N	NSN	QTY.	COST EA.	TOTAL $
Fuel Control	(06848) 2524911–4	2915–01–344–1311	1	$7267.86	$7267.86

NOTE

Replacement of Fuel Control will require a maintenance test flight, not included in the estimated time required.

d. TB/MWOs to be Applied prior to or concurrently with this Inspection. N/A.

e. Publications which Require Change as a Result of this Inspection. N/A

13. References.

a. TM 55–1520–228–10

b. TM 55–1520–228–23

c. TM 55–2840–241–23

d. DMWR 1–2915–355

14. Recording and Reporting Requirements.

a. Reporting Compliance Suspense Date (Aircraft). Upon entering requirements of this TB on DA Form 2408–13–1 on all subject mission design series (MDS) aircraft, forward a priority message, datafax or E–mail to CDR, AMCOM, ATTN: AMSAM–SF–A (SOF Compliance Officer), Redstone Arsenal, AL. 35898–5000, IAW AR 95–1. Datafax number is DSN 897–2111 or (256) 313–2111. E–mail address is <safeadm@redstone.army.mil>. The report will cite OH–58–99–ASAM–06 (TB 1–2840–241–20–17), date of entry on DA Form 2408–13–1, the aircraft MDS, and serial numbers of aircraft in numerical order.

b. Task/Inspection Reporting Suspense Date (Aircraft). Upon completion of inspection, units will forward a priority message to:CDR, AMCOM, ATTN: AMSAM–DSA–ASH, DSN 645–8249, E–mail “lewis–sl@redstone.army.mil”. The report will site this TB number, date of inspection, aircraft serial number,

aircraft and component hours, and results of the inspection. Inspection and reports will be completed no later than 30 days after task/inspection suspense date.

c. Reporting TB Receipt (Spares).

(1) Materiel in Wholesale Depot Storage – Report receipt of this TB by E–mail or datafax to the wholesale materiel (spares) point of contact listed in paragraph 16.c. within 3 working days from the date of this TB. Provide local point of contact.

(2) Materiel in Retail Storage – Report receipt of this TB by E–mail or datafax to the logistical point of contact listed in paragraph 16.b. within 7 working days from the date of this TB. Provide local point of contact.

d. Task/Inspection Reporting Suspense Date (Spares).

(1) Materiel in Wholesale Depot Storage – Report compliance with this TB to the wholesale materiel point of contact (spares) listed in paragraph 16.c. within 7 days of the date of this TB on DD Form 1225. Provide the cost of compliance with this TB to include an estimate of the cost reimbursable funding required to move serviceable items on hand listed in paragraphs 6 and 7 to a work area, unpack the materiel, repack the materiel after inspection by AMCOM inspectors, and to return the materiel to storage, as appropriate. Report, by original serviceable condition code, the quantity of materiel placed in condition code "J". Report by E–mail or datafax and provide local point of contact.

(2) Materiel in Retail Storage – Report compliance with this TB to the logistical point of contact in paragraph 16.b. within 14 days of the date of this TB. Report the quantity inspected by condition code and the resulting condition code. Report by E–mail or datafax and provide local point of contact.

e. The Following Forms are Applicable and are to be Completed in Accordance with DA Pamphlet 738-751, dated 15 March 1999:

NOTE

Unit Level Logistics System–Aviation (ULLS–A) users will use applicable electronic "E" forms.

(1) DA Form 2408–5–1, Equipment Modification Record (Engine).

(2) DA Form 2408–13, Aircraft Status Information Record.

(3) DA Form 2408-13-1, Aircraft Inspection and Maintenance Record.

(4) DA Form 2408-15, Historical Record for Aircraft.

(5) DA Form 2408–16, Aircraft Component Historical Record (Engine).

(6) DA Form 2410, Component Removal and Repair/Overhaul Record. (When fuel control is replaced)

(7) DD Form 1574/DD Form 1574–1, Serviceable Tag/Label – Materiel (color yellow). Annotate remarks block with "Inspected serviceable IAW OH–58–99–ASAM–06 (TB1–2840–241–20–17)".

(8) DD Form 1575/DD Form 1575–1, Suspended Tag/Label – Materiel (color brown). Annotate remarks block with "Suspended IAW OH–58–99–ASAM 06 (TB 1–2840–241–20–17)".

(9) DD Form 1577–2/DD Form 1577–3, Unserviceable (repairable) Tag/Label – Materiel (color green). Annotate remarks block with "Unserviceable IAW OH–58–99–ASAM–06 (TB 1–2840–241–20–17)".

15. Weight and Balance. N/A.

16. Points of Contact.

a. Technical point of contact for this TB is Jesse T. Gambee or Skip Jackson, AMSAM–AR–E–I–B–O, DSN 645–9551 or (256) 955–9551 and DSN 645–9753 or (256) 955–9753, datafax is DSN 645–7125 or (256) 955–7125. E–mail is <gambee–jt@redstone.army.mil> or <jackson–sk@redstone.army.mil>.

b. Logistical point of contact for this TB is Ms. Sue Lewis, AMSAM–DSA–ASH, DSN 645–8249 or (256) 955–8249; Datafax is DSN 645–9559 or (256) 955–9559. E–mail is <lewis–sl@redstone.army.mil>.

c. Wholesale materiel point of contact (Spares) for this TB is Mr. Dale Uckele, AMSAM–MMC–VS–UN, DSN 897–1084 or (256) 313–1084, datafax is DSN 897–1558. E–mail is <uckele–dk@redstone.army.mil>.

d. Forms and records point of contact for this TB is Ms. Ann Waldeck, AMSAM–MMC–RE–FF, DSN 746–5564 or commercial (256) 876–5564; Datafax is DSN 746–4904 or (256) 876–4904; E–mail is <waldeck–ab@redstone.army.mil>.

e. Safety point of contact for this TB is Mr. Ron Price, AMSAM–SF–A, DSN 788–8636 or commercial (256) 842–8636; Datafax is DSN 897–2111 or (256) 313–2111; E–mail is <ron.price@redstone.army.mil>.

f. Foreign Military Sales (FMS) recipients requiring clarification of action advised by this TB should contact CW5 Joseph L. Wittstrom, Security Assistance Management, AMSAM–SA, DSN 897–0681 or commercial (256) 313–0681; E–mail is <wittstrom–jl@redstone.army.mil>. Alternate POC is Mr. Ronnie W. Sammons, AMSAM–SA–CS–NF, DSN 897–0869 or (256) 313–0869; Datafax is DSN 897–0411 or (256) 313–0411; E–mail is <sammons–rw@redstone.army.mil>. Huntsville, Alabama is GMT minus 6 hrs.

g. After hours contact AMCOM Command Operations Center (COC) DSN 897–2066/2067 or commercial (256) 313–2066/2067.

17. Reporting of Errors and Recommending Improvements. You can improve this TB. If you find any mistakes or if you know of a way to improve these procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to: Commander, US Army Aviation and Missile Command, ATTN: AMSAM–MMC–LS–LP, Redstone Arsenal, Alabama 35898–5230. A reply will be furnished to you. You may also send in your comments electronically to our E–mail address at <ls–lp@redstone.army.mil>, or by datafax at DSN 788–6546 or commercial (256) 842–6546. Instructions for sending a DA Form 2028 by E–mail may be found at the back of most Technical Manuals.

By Order of the Secretary of the Army:

DENNIS J. REIMER
General, United States Army
Chief of Staff

Official:

JOEL B. HUDSON
Administrative Assistant to the
Secretary of the Army
05729

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The Metric System and Equivalents

Linear Measure

1 centimeter = 10 millimeters = .39 inch
1 decimeter = 10 centimeters = 3.94 inches
1 meter = 10 decimeters = 39.37 inches
1 dekameter = 10 meters = 32.8 feet
1 hectometer = 10 dekameters = 328.08 feet
1 kilometer = 10 hectometers = 3,280.8 feet

Weights

1 centigram = 10 milligrams = .15 grain
1 decigram = 10 centigrams = 1.54 grains
1 gram = 10 decigram = .035 ounce
1 dekagram = 10 grams = .35 ounce
1 hectogram = 10 dekagrams = 3.52 ounces
1 kilogram = 10 hectograms = 2.2 pounds
1 quintal = 100 kilograms = 220.46 pounds
1 metric ton = 10 quintals = 1.1 short tons

Liquid Measure

1 centiliter = 10 milliliters = .34 fl. ounce
1 deciliter = 10 centiliters = 3.38 fl. ounces
1 liter = 10 deciliters = 33.81 fl. ounces
1 dekaliter = 10 liters = 2.64 gallons
1 hectoliter = 10 dekaliters = 26.42 gallons
1 kiloliter = 10 hectoliters = 264.18 gallons

Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch
1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches
1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet
1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet
1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres
1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch
1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches
1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

Approximate Conversion Factors

To change	*To*	*Multiply by*	*To change*	*To*	*Multiply by*
inches	centimeters	2.540	ounce-inches	newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29,573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	newton-meters	1.356	metric tons	short tons	1.102
pound-inches	newton-meters	.11296			

Temperature (Exact)

°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C

PIN: 077078