

# URGENT

\*TB 1-2840-248-30-1

## DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

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### T700 SERIES ENGINE RESET PROGRAM “FOR RESET PROGRAM USE ONLY”

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Headquarters, Department of the Army, Washington, D.C.  
18 May 2007

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**DISTRIBUTION STATEMENT A:** Approved for public release; distribution is unlimited.

#### NOTE

THIS PUBLICATION IS EFFECTIVE UNTIL RESCINDED OR SUPERSEDED.

- 1. Purpose.** This bulletin is to be used as guidance for the restoration of performance to T700 engines operated in Southwest Asia (SWA). These engines are susceptible to damage and accelerated performance degradation due to their exposure to the hostile sand and dirt environment in SWA.
- 2. Priority Classification.** This technical bulletin is classified as **URGENT**. Equipment used (including Equipment in Supply or Maintenance Activities below Depot Level and Equipment in Administrative Storage) will be inspected as soon as practical upon redeployment.
- 3. End Items to be Inspected.**

NOMENCLATURE	PART NUMBER	NSN
T700-GE-700	6035T00G01	2840-01-070-1003
T700-GE-701	6044T06G01	2840-01-114-2211
T700-GE-701C	6071T24G01	2840-01-284-4011
T700-GE-701D	5130T00G01	2840-01-503-1701

- 4. Modules (Components, Assemblies, and Subassemblies) to be inspected.** As required.
- 5. Parts to be inspected.** Per appropriate Technical Manual (TM) and this TB.
- 6. Application.** FOR RESET PROGRAM USE ONLY.
  - a. Level of Maintenance.** All directions of this TB consist of Aviation Unit Maintenance (AVUM)/Aviation Intermediate Maintenance (AVIM) actions.
  - b. Applied by.** This TB is to be applied by RESET Program personnel/locations only.

\*This TB supersedes TB 1-2840-248-30-1 dated 25 October 2006.

**7. Supply Kits, Parts and Disposition.**

- a. Parts Required to Accomplish this Technical Bulletin. As required.
- b. Parts Disposition. As required.
- c. Expendable Supplies. As required.

**8.** At the completion of the RESET process, all T700 engines must achieve a minimum Engine Torque Factor (ETF) of .98 as determined by an aircraft Maximum Power Check, or a .98 specification engine as determined by a Flexible Engine Diagnostic System (FEDS) engine test.

**9.** All T700-GE-700, T700-GE-701, T700-GE-701C, and T700-GE-701D turboshaft engines that have operated in SWA, and that are deemed economically repairable, shall undergo cleaning, inspection, repair, and troubleshooting in accordance with the Interactive Electronic Technical Manual (IETM) Technical Manual (TM) 1-2840-248-23&P, as well as the following maintenance actions and checks:

- a. Clean installed engines externally (WP 0299).
- b. Perform Phase Inspection requirements (WP 0296).
- c. Remove the Electronic Control Unit (ECU)/Digital Electronic Control Unit (DECU) (WP 0423). Inspect the cooling fins for sand compaction and clean the fins, scroll case, and seal (WP 0423).
- d. Remove the Hydromechanical control Unit (HMU) and the T2 Sensor (WP 0412), and clean the Sensor and Holster (WP 0412).
- e. Remove, clean, and inspect the Anti-Ice/Start Bleed Valve (AISBV) (WP 0470). Replace P/N 4046T28G01, G03, or G05 valves with later configuration.
- f. Remove, clean, and inspect C-Sump heat shield and cover (WP 0383).
- g. Inspect VG Actuator lever arms for damage and missing bushings (WP 0354).
- h. **(T700)** Remove P3 hose and tube assembly (WP 0466). Check for coking obstruction in P3 air manifold tube and fitting (WP 0359, figure 1, item 3).
- i. Perform the Maximum Power Check or test engine using a FEDS or equivalent. Engines are considered serviceable for use if either of the following is met:

- An 0.98 ETF as determined by an aircraft Maximum Power Check

**OR**

- A 0.98 Specification Engine as determined by a test cell run and passed utilizing the 0.98 Specification Engine charts (Figures 1, 2, or 3).

**10. References.**

- a. TM 1-2840-248-23&P, Aviation Unit and Intermediate Maintenance Manual Including Repair Parts and Special Tools List for Engine, Aircraft, Turboshaft, Models T700-GE-700, T700-GE-701, T700-GE-701C, and T700-GE-701D.
- b. DA PAM 738-751, Functional Users' Manual for the Army Maintenance Management System – Aviation (TAMMS-A).

**11. Recording and Reporting Requirements.** Record and Reports Forms. Record compliance with this TB on DA Form 2408-5-1 (Equipment Modification Record (Component)), and DA Form 2408-13 (Aircraft Inspection and Maintenance Record) in accordance with DA PAM 738-751.

**12. Weight and Balance.** Not applicable.

**13. Points of Contact.** Questions regarding this TB should be addressed to the U.S. Army Aviation and Missile Command, Redstone Arsenal, AL 35898-5000.

- a. Engineering point of contact for this TB is Mrs. Jennifer Goffinett, AMSRD-AMR-AE-P, DSN 897-1376, commercial (256) 313-1376. E-mail is "Jennifer.Goffinett@us.army.mil".

b. Logistical points of contact for this TB are:

(1) AH-64 series: Mr. Wayne Fusselman, SFAE-AV-AAH-LF, DSN 897-4043 or commercial (256) 313-4043. E-mail is "Wayne.Fusselman@peoavn.army.mil".

(2) UH-60 Series: Mr. Craig Benson, SFAE-AV-UH-E, DSN 645-6905 or commercial (256) 955-6905. E-mail is "Craig.Benson@peoavn.army.mil".

**14. 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, U.S. Army Aviation and Missile Command, ATTN: AMSAM-MMC-MA-NP, Redstone Arsenal, AL 35898-5000. A reply will be furnished to you. You may also provide DA Form 2028 information to AMCOM via e-mail, fax, or the World Wide Web. Our fax number is: DSN 788-6546 or commercial (256) 842-6546. Our e-mail address is: 2028@redstone.army.mil. Instructions for sending an electronic 2028 may be found at the back of this TB. For the World Wide Web, use: <https://amcom2028.redstone.army.mil>.

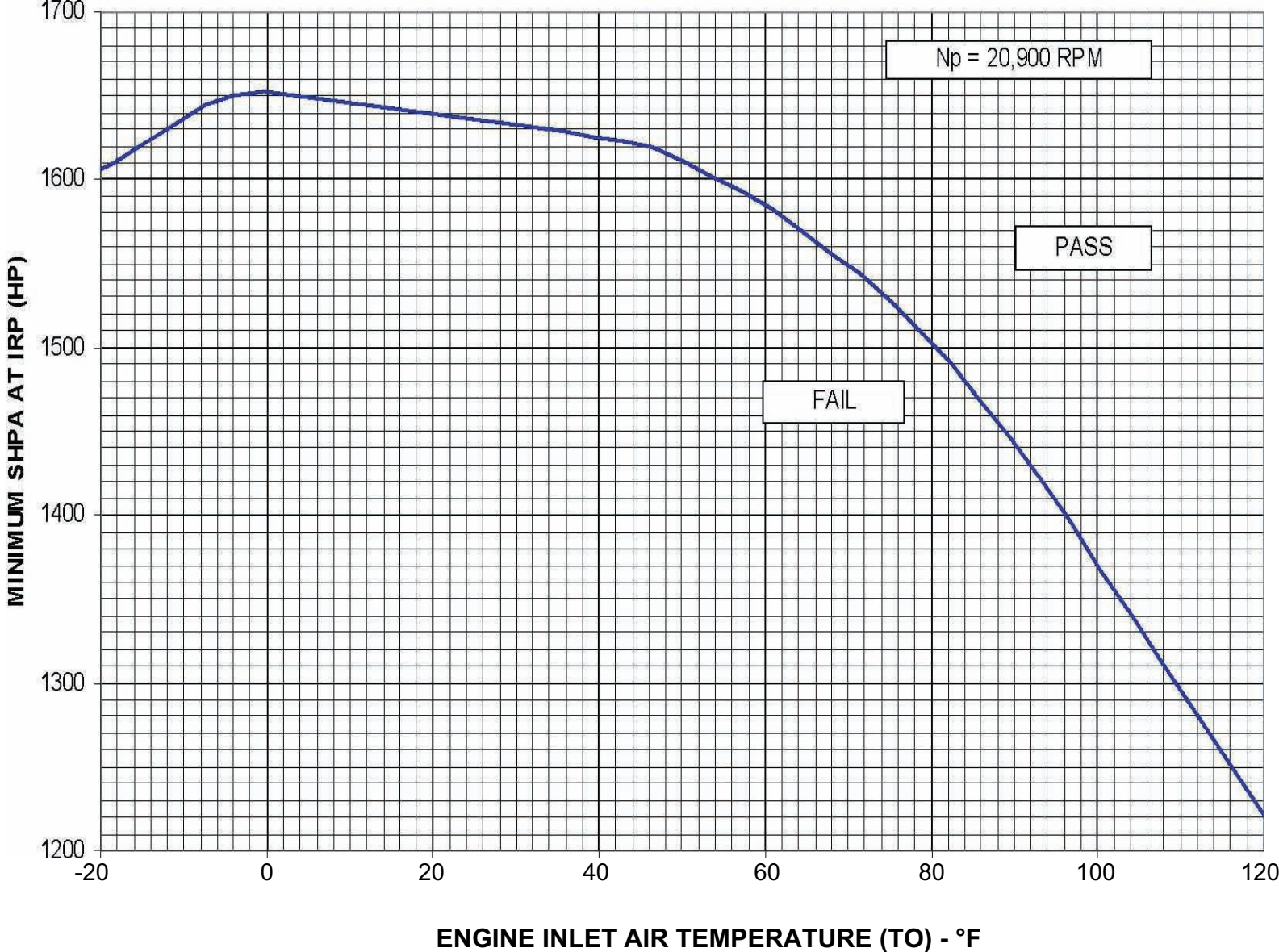


Figure 1. (T700) Intermediate Rated Power Minimum Limit 98% Specification

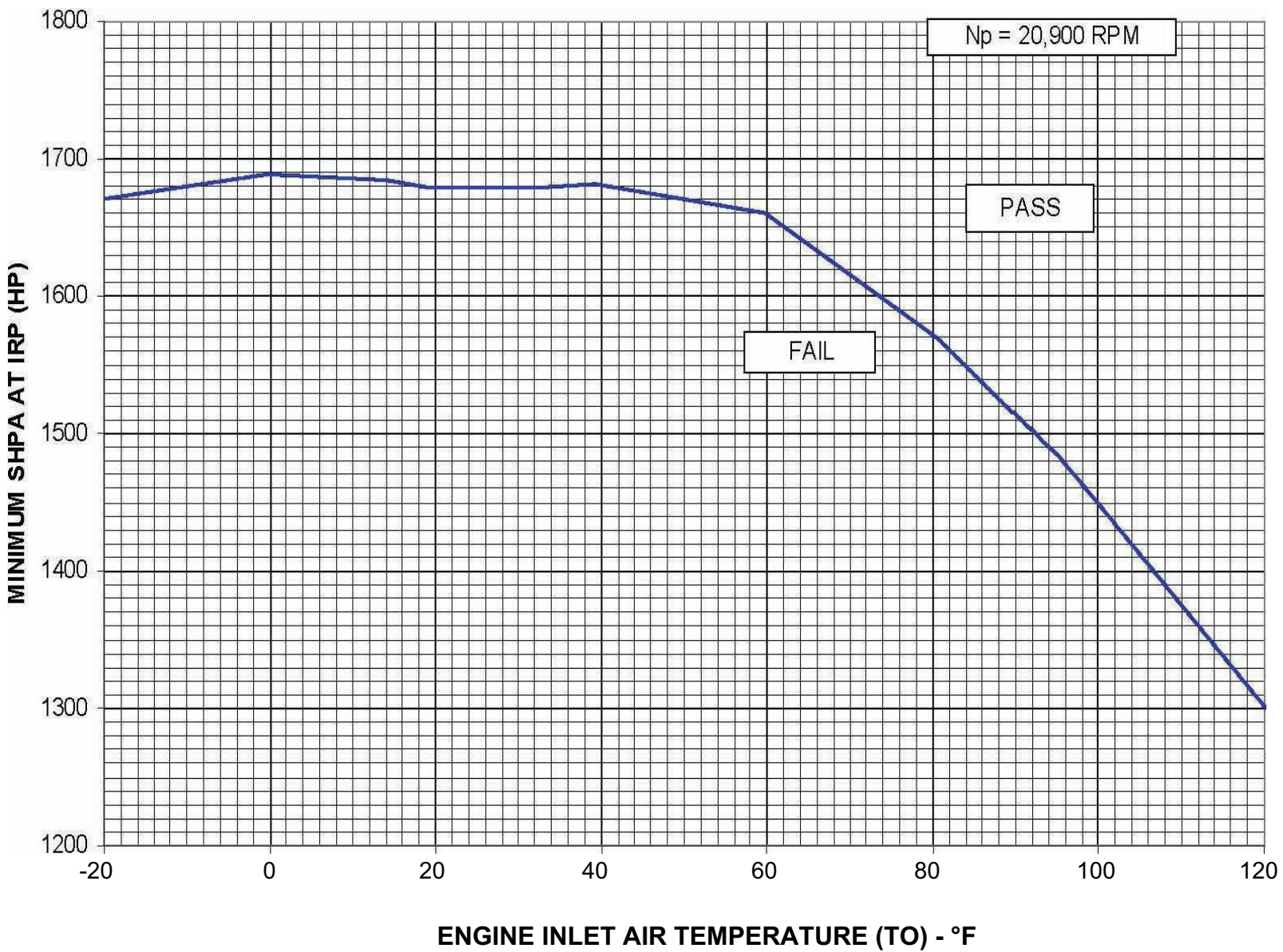


Figure 2. (T701) Intermediate Rated Power Minimum Limit 98% Specification

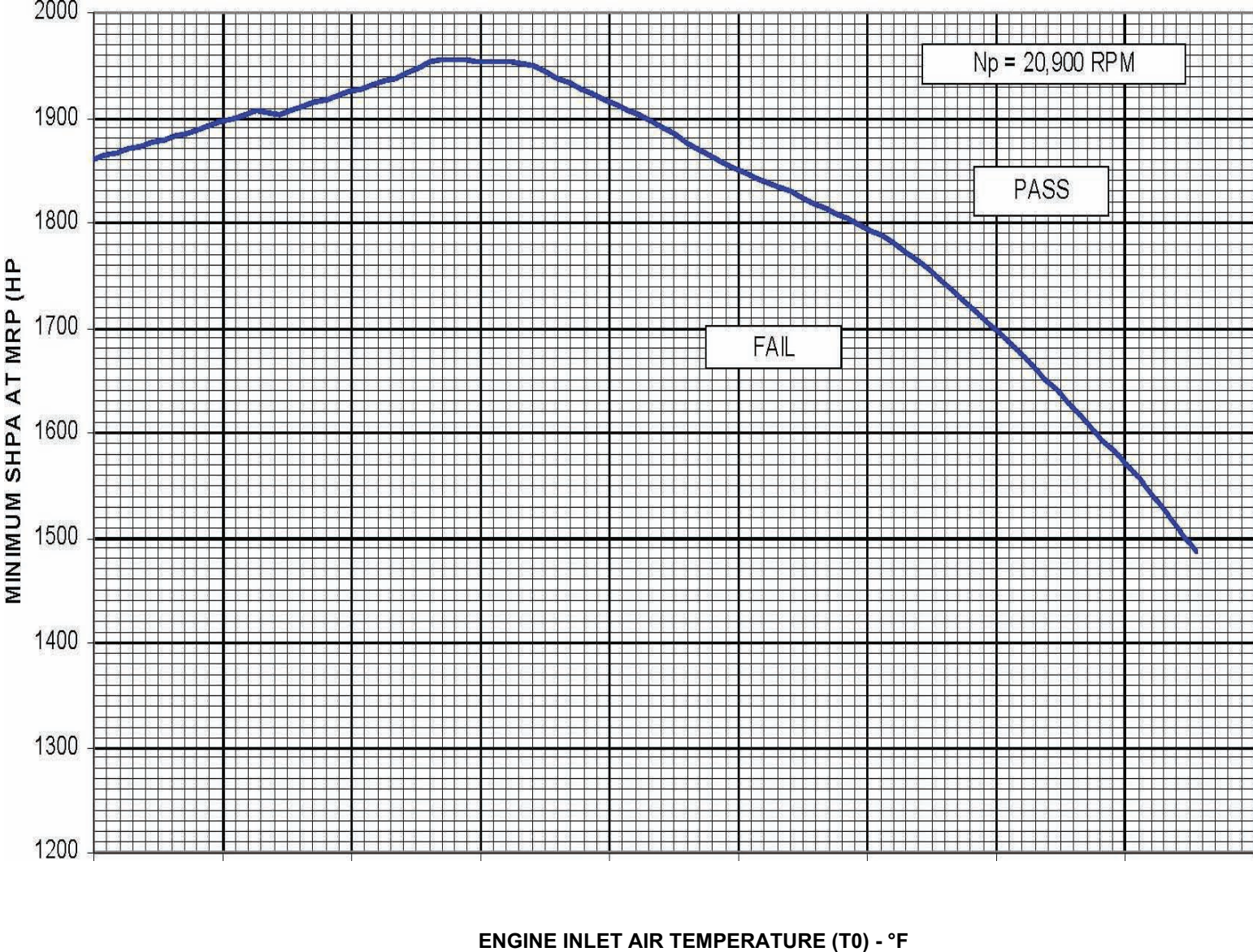


Figure 3. (T701C, T701D) Maximum Power Limit - 98% Specification

By Order of the Secretary of the Army:

Official:



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