

Summary Report for Individual Task
091-94R-1800
Repair Automated Flight Control System (AFCS)
Status: Approved

Distribution Restriction: Approved for public release; distribution is unlimited.

Destruction Notice: None

Foreign Disclosure: FD6 - This product/publication has been reviewed by the product developers in coordination with the 59th Ord foreign disclosure authority. This product is releasable to students from foreign countries on a case-by-case basis.

Condition: In an operational environment, a work order for a Non-Mission Capable Advanced Flight Control System (AFCS) has been submitted to your shop. Your supervisor has assigned the work order to you. At your workstation you have the following: AFCS control panel; AFCS Bench Test Set 145G0008-1; Contact Insertion/ Removal Tool M83723-31-20; Digital Multimeter, AN/PSM-45A; Tool Kit,TK-105/(*)G; DA Form 5990-E, Maintenance Request; DA Pam 738-751, Functional Users Manual for the Army Maintenance Management System Aviation; TM 1-1520-240-23&P; TM 55-4920-430-13; TM 55-4920-430-30. This task should not be trained in MOPP 4.

Standard: Restore the Advanced Flight Control System (AFCS) to a fully mission capable status per TM 1-1520-240-23&P, and TM 55-4920-430-13. Complete DA Form 5990-E per DA Pam 738-751 without error.

Special Condition: None

Safety Risk: Low

MOPP 4: Never

Task Statements

Cue: Your supervisor has tasked you to troubleshoot and repair a Non-Mission Capable AFCS.

DANGER
None

WARNING
- Under no circumstances should any person reach into the test set for the purpose of servicing or adjusting the equipment except in the presence of someone who is capable of rendering aid.
- HIGH voltage is used in the Line Test Set (LTS). Death on contact or severe injury can result if personnel fail to observe safety precautions. Learn the areas containing high voltage. Before working inside the LTS, turn off the LTS and disconnect all power at the source.

CAUTION
None

Remarks: None

Notes: TM 55-4920-430-13 is used for all paragraph References unless otherwise specified.

Performance Steps

1. Complete appropriate blocks on DA Form 5990-E per DA Pam 738-751.
2. Perform Visual Inspection on equipment.
3. Obtain required tools, test equipment, and references.
4. Perform operational checks(s)
 Note: Skip to performance step 10 if UUT passes operational checks.
5. Perform troubleshooting procedures.
6. Identify defective component(s).
7. Replace/ repair defective component(s).
8. Perform operational check(s) to verify repair of UUT.
 Note: If UUT Fails operational check repeat step 5.
9. Tag part(s) and/ or equipment with proper DOD material condition tag per DA Pam 738-751.
10. Complete appropriate blocks on DA Form 5990-E per DA PAM 738-751.
11. Notify supervisor upon completion of task.

(Asterisks indicates a leader performance step.)

Evaluation Guidance: None

Evaluation Preparation: None

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Completed appropriate blocks on DA Form 5990-E per DA Pam 738-751.			
2. Performed Visual Inspection on equipment.			
3. Obtained required tools, test equipment, and references.			
4. Performed operational checks.			
5. Performed troubleshooting procedures.			
6. Identified defective component(s).			
7. Replaced/ repaired defective component(s).			
8. Perform operational Check(s) to verify proper operation of UUT.			
9. Tag part(s) and/ or equipment with proper DOD material condition tag per DA Pam 738-751.			
10. Completed appropriate blocks on DA Form 5990-E per DA Pam 738-751.			
11. Notified supervisor upon completion of task.			

Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary
	DA FORM 5990-E	Maintenance Request	No	No
	DA PAM 738-751	Functional Users Manual for the Army Maintenance Management System-Aviation (TAMMS-A)	No	No
	TM 1-1520-240-23&P	INTERACTIVE ELECTRONIC TECHNICAL MANUAL FIELD MAINTENANCE FOR HELICOPTER, CARGO TRANSPORT CH-47D INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST (NSN 1520-01-088-3669) (THIS ITEM IS INCLUDED ON EM 0280)	Yes	No
	TM 55-1520-240-23-9	Aviation Unit and Aviation Intermediate Maintenance Manual for CH-47D Helicopter	Yes	No
	TM 55-4920-430-13	OPERATORS, AVIATION INTERMEDIATE MAINTENANCE AND ILLUSTRATED PARTS BREAKDOWN FOR TEST SET, BENCH ADVANCED FLIGHT CONTROL SYSTEM (AFCS), 145G0008-1 (NSN 4920-01-121-0602) (REPRINTED W/ BASIC INCL C1-2) (T	Yes	No

Environment: Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to FM 3-34.5 Environmental Considerations and GTA 05-08-002 ENVIRONMENTAL-RELATED RISK ASSESSMENT. All operations must conform to the Army Environmental Program, TC 3-34.489 (The Soldier and the Environment), 3-34.5 (ENVIRONMENTAL CONSIDERATIONS {MCRP 4-11B}), AR 200-1 Environmental Protection and Enhancement), local, state, and federal environmental policies, The Clean Air Act (CAA), CAA amendments, National Ambient Air-Quality Standards (NAAQS), as well as OSHA Hazard Communication Standard for Industry, 29 CFR, part 1910.

Safety: In a training environment, leaders must perform a risk assessment in accordance with ATP 5-19, Risk Management. Leaders will complete the current Deliberate Risk Assessment Worksheet in accordance with the TRADOC Safety Officer during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW FM 3-11.4, Multiservice Tactics, Techniques, and Procedures for Nuclear, Biological, and Chemical (NBC) Protection, FM 3-11.5, Multiservice Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Decontamination. Incidental to Army operations and activities, all operations must provide for public safety, safe and healthful workplaces, procedures and equipment. Observe all safety precautions when using lifting devices and handling heavy parts. Observe all safety and/or environmental precautions regarding electricity, radiation, radio frequency (RF), fuel, lubricants, high pressures, and refrigerants. Provide ventilation for exhaust fumes during equipment operation and use hearing protection when required in accordance with AR 385-10 (The Army Safety Program), The Clear Air Act (CAA), CAA amendments, National Ambient Air Quality Standards (NAAQS), and the OSHA Communication Standard.

Prerequisite Individual Tasks : None

Supporting Individual Tasks : None

Supported Individual Tasks : None

Supported Collective Tasks : None