

Summary Report for Individual Task
091-94R-1100

Repair Radar Countermeasures Set AN/ALQ-136 V(*)
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 FT. LEE/ CASCOS foreign disclosure authority. This product is releasable to students from foreign countries on a case-by-case basis.

Condition: You are in an Operational Environment (OE), with a non-mission capable Countermeasures Set AN/ALQ-136 V(*) that has been submitted to your Shop along with DA Form 2407, Maintenance Request and DA Form 2404, Equipment Inspection and Maintenance Worksheet. Your supervisor has assigned the work order to you for repair. At your workstation you have the following items: TS-3615/ALQ-136, Tool Kit TK-105/G; Dual-trace Oscilloscope AN/USM-488, Multimeter Digital PSM-45A, Countermeasures Set Test Set TS-3615(*), Power Meter AN/USM-491, termination 50-ohm (two each), Plenum Assembly SM-C-920439, Torque Wrench T-8438, torque wrench NSN 5120-01-157-6919, Microwave Frequency Counter TD-1225A(V)2/U, Power Supply 28 V dc HP-6269B, Power Sensor 8481A, Test Set Radio Frequency Meter TS-3793/U (see note in MAC chart in -12 manual), RF adapters, TNC (female) to SMA (female), N (female) to SMA (male); DA Form 2404; DA Form 2407; TM 11-5865-247-30-1; TM 11-5865-202-30P; and DA Pam 738-751, Functional Users Manual for the Army Maintenance Management System Aviation. NOTE: Substitutions for equipment may be made per test equipment modernization (TEMOD) publications. Some iterations of this task should be performed in MOPP 4.

Standard: Restore AN/ALQ-136 V(*) to full mission capable condition per TM TM 11-5865-247-30-1 and TM 11-5865-202-30P. Complete DA Form 2407 per DA Pam 738-751 without error.

Special Condition: None

Safety Risk: Low

MOPP 4: Sometimes

Task Statements

Cue: Your supervisor has submitted a non-mission capable AN/ALQ-136 to your shop with DA Form 2407 for you to repair.

DANGER

None

WARNING

HIGH VOLTAGE is used in the operation of this equipment.
DEATH ON CONTACT MAY RESULT IF PERSONNEL FAIL TO OBSERVE SAFETY PRECAUTIONS. Never work on electronic equipment unless there is another person nearby who is familiar with the operation and hazards of the equipment and who is competent in administering first aid. When the technicians are aided by operators, they must be warned about dangerous areas. Whenever possible, the power supply to the equipment must be shut off before beginning work on the equipment Take particular care to ground every capacitor likely to hold a dangerous potential. When working inside the equipment, after the power has been turned off, al-ways ground every part before touching it. Be careful not to contact high-voltage connections or 115 volt ac input connections when installing or operating this equipment. Whenever the nature of the operation permits, keep one hand away from the equipment to reduce the hazard of current flowing through the body. Warning: Do not be misled by the term "low voltage." Potentials as low as 50 volts may cause death under adverse conditions.

CAUTION

Adequate ventilation should be provided while using Trichlorotrifluoroethane. Avoid prolonged breathing of vapor. The solvent should not be used near heat or flame; the products of decomposition are toxic and irritating. Since Trichlorotrifluoroethane dissolves natural oils, avoid prolonged contact with skin. The use of chemical gloves (solvent resistant), chemical splash goggles and full face shield are required when using Trichlorotrifluoroethane. DO NOT use compressed air to dry parts when Trichlorotrifluoroethane has been used. Trichlorotrifluoroethane is an ozone-depleting substance.

CAUTION:Compressed air is dangerous and can cause serious bodily harm if protective means or methods are not observed to prevent a chip or particle (of whatever size) from being blown into the eyes or unbroken skin of the operator or other personnel. Compressed air shall not be used for cleaning purposes except where reduced to less than 30 pounds per square inch gauge (30 psig) and then only with effective chip guarding and personnel protective equipment (industrial safety glasses and full face shield). DO NOT use compressed air to dry parts when Trichlorotrifluoroethane has been used.

CAUTION:The Receiver-Transmitter weighs 69.5 pounds. A minimum of two soldiers is recommended for handling or lifting anything in excess of 40 pounds Extreme care must be used in handling, to prevent injury to the individual or damage to equipment.

Remarks: None

Notes: None

Performance Steps

1. Obtain all required tools, test equipment and reference materials per TM 11-5865-274-30-1.
2. Complete appropriate blocks on maintenance request forms per DA PAM 738-751.
3. Perform visual inspection.
4. Set up test equipment per TM 11-5865-247-30-1.
5. Verify faults listed on DA Form 2407 using appropriate troubleshooting chart per TM 11-5865-247-30-1.
6. Troubleshoot the AN/ALQ-136 using the troubleshooting chart in TM 11-5865-247-30-1.
7. Identify defective component(s) per TM 11-5865-247-30-1 and TM 11-5865-202-30P.
8. Replace defective component(s) with operational ones per TM 11-5865-247-30-1 and TM 11-5865-202-30P.
9. Perform operational checks per TM 11-5865-247-30-1
10. Complete appropriate blocks on DA Form 2407 per DA PAM 738-751.
11. Tag defective component(s) for turn-in per DA PAM 738-751.
12. Notify supervisor upon completion of task.

(Asterisks indicates a leader performance step.)

Evaluation Guidance: Score the Soldier GO if all performance measures are passed. Score the Soldier NO-GO if any performance measure is failed. If the Soldier fails any performance measure, show the Soldier what was done wrong and how to do it correctly.

Evaluation Preparation: Ensure all items required in the condition statement (or appropriate substitutions) are on hand and all safety requirements are met.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Obtained all required tools, test equipment and reference materials per TM 11-5864-247-30-1.			
2. Completed appropriate blocks on DA Form 2407 per DA Pam 738-751.			
3. Performed visual inspection.			
4. Properly set up test equipment per TM 11-5865-247-30-1.			
5. Verified faults listed on DA Form 2407 using appropriate troubleshooting chart per TM 11-5865-247-30-1.			
6. Performed troubleshooting on the AN/ALQ-136 using the troubleshooting chart in TM 11-5865-247-30-1.			
7. Identified defective component(s) per TM 11-5865-247-30-1 and TM 11-5865-202-30P.			
8. Replaced defective component(s) per TM 11-5865-247-30-1 and TM 11-5865-202-30P.			
9. Performed operational checks per TM 11-5865-247-30-1.			
10. Completed appropriate blocks on DA Form 2407 per DA PAM 738-751.			
11. Tagged defective component(s) for turn-in per DA PAM 738-751.			
12. Notified supervisor upon completion of task.			

Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary
	DA FORM 2404	EQUIPMENT INSPECTION AND MAINTENANCE WORKSHEET	Yes	No
	DA FORM 2407	MAINTENANCE REQUEST	Yes	No
	PAM 738-751	FUNCTIONAL USER'S MANUAL FOR THE ARMY MAINTENANCE MANAGEMENT SYSTEM-AVIATION (TAMMS-A) http://www.apd.army.mil/pdffiles/p738_751.pdf	No	No
	TM 11-5865-202-30P	AVIATION INTERMEDIATE MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST (INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS) FOR COUNTERMEASURES SET, AN/ALQ-136(V)1 (NSN 5865-01-127-6880) {NAVAIR 16	No	No
	TM 11-5865-247-30-1	AVIATION INTERMEDIATE MAINTENANCE MANUAL FOR COUNTERMEASURES SET AN/ALQ-136(V)2 (NSN 5865-01-186-9129) (EIC: KD5)	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. In an Operational Environment, it is the responsibility of the Soldier and DA Civilians to protect the environment from damage. All operations must conform to the Army Environmental Program, TC 3-34.489 (The Soldier and the Environment), FM 3-100.4 (Environmental Consideration in Military Operations), and local, state, and federal environmental policies, the Clean Air Act (CAA), CAA amendments, National Ambient Air-Quality Standards (NAAQS), as well as Occupational Safety and Health Administration (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 work places, 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 Clean Air Act (CAA), CAA amendments, National Ambient Air-Quality Standards (NAAQS), and the Occupational Safety and Health Administration (OSHA) Hazard Communication standard.

Prerequisite Individual Tasks : None

Supporting Individual Tasks : None

Supported Individual Tasks : None

Supported Collective Tasks : None