

Summary Report for Individual Task
091-94E-1102
Repair Communications System Control C-6533(*)/ARC
Status: Approved

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

Destruction Notice: None

Foreign Disclosure: FD5 - This product/publication has been reviewed by the product developers in coordination with the Fort Lee/CASCOM foreign disclosure authority. This product is releasable to students from all requesting foreign countries without restrictions.

Condition: In an Operational Environment, an operator has turned in a non-mission capable C-6533(*)/ARC to your Shop. Your supervisor has directed you to restore the equipment to operational status in accordance with the Technical Manual. Your shop is equipped with the following items: Communications System Control C-6533(*)/ARC; Radio Test Set AN/GRM-122(*) ; 2 Headsets H-(*); Resistor, 150-ohm, .5-watt, 5-percent; Power Supply PP-6624(*) ; Digital Multimeter PSM-45A; AN/USM-486; Tool Kit TK-105A(G); applicable repair parts; TM 11-5895-1174-23; TM 11-5895-1174-23P; TM 11- 6625-3300-10; DA Form 2404, Equipment Inspection and Maintenance Worksheet; DA Form 2407, Maintenance Request; DA Pam 738-751, Functional Users Manual for the Army Maintenance Management System - Aviation; TB 385-4, Safety Requirements For Maintenance of Electrical and Electronic Equipment and Local Standard Operating Procedure (SOP).

NOTE: If any of the above equipment is obsolete or not available, use equivalent equipment. This task should not be trained in MOPP 4.

Standard: Restore the communications system control to operational status in accordance with the technical manual and references listed in the performance measures.

Special Condition: None

Safety Risk: Low

MOPP 4: Never

Task Statements

Cue: Your supervisor has directed you to restore a Non-Mission Capable C-6533(*)/ARC to operational status.

DANGER
None

WARNING
None

CAUTION
This equipment contains transistor circuits in the headset and microphone amplifiers and the protective device and filter assembly. If any test equipment item does not have an isolation transformer in its power supply circuit, connect one in the power input circuit.
Before using any multimeter to test transistors of transistor circuits, check the open-circuit voltage across the multimeter test leads. Do not use the multimeter if the open circuit voltage exceeds 1.5 volt. Also, since the Rxl range normally connects the multimeter internal battery directly across the test leads, the comparatively high current (50 ma or more) may damage the transistor under test. As a general rule, it is not recommended that the Rxl range of any multimeter be used when testing low power transistors.

Remarks: None

Notes: The GRM-122 replaces the MK-994/AR for testing the C-6533(*)/ARC. The C-6533(*)/VRC Technical Manual, TM 11-5895-1174-23 has not been updated to reflect the change. Refer to the GRM-122 Operators Manual, TM 11-6625-3300-10 for initial test setup and testing. Refer to the C-6533(*)/ARC Manual, TM 11-5895-1174-23 for troubleshooting procedures.

Performance Steps

1. Obtain required tools and test equipment. (TM 11-6625-3300-10)
2. Complete appropriate blocks on DA Form 2407. (DA PAM 738-751)
3. Perform visual inspection.
4. Set up test equipment. (TM 11-6625-3300-10)
Note: Ensure GRM-122 is set to Single-Step (SGLSTEP) Mode
5. Perform Operational Checkout. (TM 11-6625-3300-10)
6. If Control passes Operational Checkout, proceed PS# 12. If control fails, continue to next step.
7. Note fault details on GRM-122 and refer to TM 11-5895-1174-23 for troubleshooting.
8. Identify the defective circuit card(s) or component(s).
9. Replace the defective circuit card(s) or component(s).
10. Tag defective part(s) for Technical Inspection and turn in. (DA PAM 738-751)
11. Repeat Operational Checkout, PS #5.
12. Complete maintenance request form. (DA Pam 738-751)
13. Request final inspection upon completion of task.

(Asterisks indicates a leader performance step.)

Evaluation Guidance: Score the Soldier GO if all performance measures are passed (P). Score the Soldier NO-GO if any performance measure is failed (F). If the Soldier fails any performance measure, show 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 required tools and test equipment. (TM 11-6625-3300-10)			
2. Completed appropriate blocks on DA Form 2407. (DA PAM 738-751)			
3. Performed visual inspection.			
4. Set up test equipment. (TM 11-6625-3300-10)			
5. Performed Operational Checkout. (TM 11-6625-3300-10)			
6. If Control passed Operational Checkout, proceeded PS# 12. If control failed, continued to next step.			
7. Noted fault details on GRM-122 and referred to TM 11-5895-1174-23 for troubleshooting.			
8. Identified the defective circuit card(s) or component(s).			
9. Replaced the defective circuit card(s) or component(s).			
10. Tagged defective part(s) for Technical Inspection and turn in. (DA PAM 738-751)			
11. Repeated Operational Checkout, PS #5.			
12. Completed maintenance request form. (DA Pam 738-751)			
13. Requested final inspection 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
	LOCAL SOP	LOCAL SOP	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	Yes	No
	TB 385-4	SAFETY REQUIREMENTS FOR MAINTENANCE OF ELECTRICAL AND ELECTRONIC EQUIPMENT	Yes	No
	TM 11-5895-1174-23	AVIATION UNIT AND INTERMEDIATE MAINTENANCE MANUAL FOR CONTROL, COMMUNICATION SYSTEM C-6533/ARC (NSN 5895-00-895-4175) (EIC: N/A) (REPRINTED W/BASIC INCL C1-2)	Yes	No
	TM 11-5895-1174-23P	AVIATION UNIT AND INTERMEDIATE MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST FOR CONTROL, COMMUNICATIONS SYSTEM C-6533/ARC (NSN 5895-00-895-4175)	Yes	No
	TM 11-6625-3300-10	Technical Manual Operator's Manual for Plug-in Unit, Electronic Test Equipment	No	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. It is the responsibility of every Soldier and DA civilian 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 3-34.5 (Environmental Considerations), 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

ICTL Data :

ICTL Title	Personnel Type	MOS Data
MOS 94E - Radio Communications Security Repairer SL1	Enlisted	MOS: 94E, Skill Level: SL1