

**Report Date:** 29 Apr 2012

**Summary Report for Individual Task  
091-94E-1068  
Maintain High Frequency (HF) Radios  
Status: Approved**

---

DISTRIBUTION RESTRICTION: Approved for public release; distribution is unlimited.

DESTRUCTION NOTICE: None

**Condition:** In an operational environment, your supervisor has directed you to troubleshoot and repair a HighFrequency (HF) radio that was submitted to your ELM shop this morning. At your work station you have the following items: Digital Multimeter, AN/PSM-45A; Modulation Meter, ME-505A/U; Power Meter with Sensor, AN/USM-491; Attenuator, 20 dB; Handset, H-250( )/U; Key Fill Device; TK-105(\*)/G; TM 11-5820-1130-30&P, TB 11-5820-1130-30; DA Form 2407 and DA Form 2404.  
**NOTE:** If any of the above equipment is obsolete or not available, use equivalent equipment. This task should not be trained in MOPP.

**Standard:** 1. Maintain the HF Radios in accordance with applicable technical manuals and be fully mission capable when the task is completed. 2. Complete all maintenance forms and records in accordance with DA Pam 750-8 without error. 3. Ensure all safety precautions are observed without violation

**Special Condition:** None

**Special Standards:** None

**Special Equipment:**

**Safety Level:** Low

**MOPP:** Never

<b>Task Statements</b>
------------------------

**Cue:** Your Supervisor has directed you to troubleshoot and repair an HF radio.

<b>DANGER</b>
None

<b>WARNING</b>
Use of the AN/PSC-5 in the AM or FM Line-Of-Sight (LOS) modes cannot expose the user to nonionizing radiation greater than the whole-body or partial-body limits. Physical contact with any nearby metallic objects may cause a RF shock or burn and shall therefore be avoided. Do not use the antenna if the sheath covering is damaged or removed because contact with the internal metallic parts of the antenna can cause a RF shock or burn.

<b>CAUTION</b>
None

**Remarks:** None

**Notes:** DO NOT USE FREQUENCIES NOT ASSIGNED BY HIGHER COMMAND. Radio Set AN/PSC-5 contains the capability of extended frequency operations from 30 to 399.995 MHz. This feature is included to provide maximum capability for communications in a global environment for US, Federal, and allied Forces. Inclusion of this feature does not include authorization for indiscriminate use. The allocation of radio frequencies is governed by worldwide treaties, military, and civilian laws. Inappropriate or uncoordinated use of this extended range may be viewed as a violation of such laws or

treaties and may make you personally liable for criminal offenses or fines associated with your actions. You are cautioned that use of the extended frequency range beyond the traditional military bands should be carefully coordinated and approved. Failure to do so could cause unwanted interference with commercial or public service traffic and will make you liable under the laws of the respective country you are operating in.

### Performance Steps

1. Obtain required tools and test equipment.
2. Complete appropriate blocks on maintenance request forms. (DA PAM 750-8)
3. Perform visual inspection.
4. Set up test equipment.
5. Verify the symptom(s), perform operational tests
6. Proceed to PS# 12 if Unit Under Test (UUT) passes operational tests. If UUT fails, start troubleshooting PS #7.
7. Perform troubleshooting procedures.
8. Identify the defective circuit card(s) or component(s).
9. Replace the defective circuit card(s) or component(s).
10. Verify the repair
11. Perform operational tests, restart at PS# 5.
12. Complete maintenance request form. (DA PAM 750-8)
13. Tag defective part(s) for turn in.(DA PAM 750-8)
14. Request final inspection upon completion of task. (Refer to local SOP

(Asterisks indicates a leader performance step.)

**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.			
2. Completed appropriate blocks on maintenance request forms.			
3. Performed visual inspection.			
4. Set up test equipment.			
5. Verified the symptom(s), performed operational tests.			
6. Proceeded to PS# 12 if Unit Under Test(UUT) passed operational tests or continued to PS #7 if UUT failed.			
7. Perform troubleshooting procedures.			
8. Identified defective circuit card(s) or component(s).			
9. Replaced defective circuit card(s) or component(s).			
10. Verified the repair.			
11. Performed operational tests.			
12. Completed maintenance request form. (Refer to DA Pam 750-8.)			
13. Tagged defective part(s) for turn in.			
14. Requested final inspection. (Refer to local SOP.)			

**Supporting Reference(s):**

Step Number	Reference ID	Reference Name	Required	Primary
	TB 11-5820-1130-30	WARRANTY PROGRAM FOR RADIO SET, AN/PSC-5 (NSN 5820-01-366-4120)	No	No
	TM 11-5820-1130-12&P	OPERATORS AND UNIT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST) FOR RADIO SET AN/PSC-5 (NSN 5820-01-366-4120) (EIC: N/A) {TO 31R2-2PSC5-1; NAVELEX EE125-WU-OMI-010/PSC-5; TM 10191A-	No	No
	TM 11-5820-1130-30&P	DIRECT SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST) FOR RADIO SET AN/PSC-5 (NSN 5820-01-366-4120) (EIC: N/A) {TO 31R2-2PSC5-2; NAVELEX EE125-WU-MMO-010/PSC-5; TM 10191A-30&P/	No	No

**Environment:** None

**Safety:** In a training environment, leaders must perform a risk assessment in accordance with FM 5-19, Composite Risk Management. Leaders will complete a DA Form 7566 COMPOSITE RISK MANAGEMENT WORKSHEET 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, NBC Protection, FM 3-11.5, CBRN Decontamination.

**Prerequisite Individual Tasks :** None

**Supporting Individual Tasks :** None

**Supported Individual Tasks :** None

**Supported Collective Tasks :**

Task Number	Title	Proponent	Status
-------------	-------	-----------	--------

43-2-4552	Perform Field Maintenance	09 - Ordnance (missiles and munitions) (Collective)	Approved
43-2-0126	Conduct Sustainment Maintenance Operations	43 - Maintenance (except missile) (Collective)	Approved
09-2-4000	Perform Direct Support Maintenance Operations (EAD)	09 - Ordnance (missiles and munitions) (Collective)	Approved

**ICTL Data :**

<b>ICTL Title</b>	<b>Personnel Type</b>	<b>MOS Data</b>
94E Radio Communications Security Repairer Skill Level 1	Enlisted	MOS: 94E, Skill Level: SL1