

**Report Date:** 30 Sep 2013

**Summary Report for Individual Task  
061-271-1218  
Perform Organizational Maintenance on an M198 Fire Control Quadrants  
Status: Approved**

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

DESTRUCTION NOTICE: None

**Condition:** Given an M198 howitzer scheduled for maintenance, M17 or M18 fire control quadrants, an Artillery Mechanics Tool Kit, a gunner's quadrant, the material/parts listed in the initial setup for M17 and M18 fire control quadrants.

**Standard:** Perform organizational maintenance on the fire control quadrants so that all damaged parts are repaired and missing parts replaced IAW the technical guidance listed in TM 9-1025-211-10.

**Special Condition:** None

**Safety Level:** Low

**MOPP:**

**Task Statements**

**Cue:** Howitzer is scheduled for maintenance

**DANGER**

None

**WARNING**

When using radioactively illuminated fire control equipment, follow radiation hazard procedures.

**CAUTION**

None

**Remarks:** None

**Notes:** None

## Performance Steps

### 1. Disassemble the fire control quadrant.

- a. Remove bolt and lockwasher from fire control quadrant.

Note: NOTE

To gain access to lower bolt swing M17 fire control quadrant away from bolt by rotating elevation control knob while holding base of quadrant against mounting key.

- b. While supporting the fire control quadrant, remove bolts, and lockwashers.
- c. Remove fire control quadrant from mount.

### 2. Clean the fire control quadrant.

- a. Ensure keys on mount are clean, free of corrosion, and not burred.
- b. Ensure keyways on fire control quadrant are clean, free of corrosion, and not burred.

### 3. Serviced the fire control quadrant.

- a. Check for broken, damaged, or missing parts.
- b. Repair is by replacement of authorized parts.
- c. Replace valve core if required. Purge and charge. Install entrance port cap

d. Replace fire control quadrant if level vials or counters are not sufficiently illuminated or instrument will not operate accurately.

### 4. Install the fire control quadrant.

- a. Place fire control quadrant on mount so keys and keyways engage.

Note: NOTE

It may be necessary to rotate elevation control knob on M17 fire control quadrant to swing quadrant away from and gain access for installing bolt.

- b. Insert lockwashers and bolts through base of fire control quadrant and hand-tighten into quadrant support on mount.
- c. Tighten bolt.
- d. Alternately and gradually tighten bolts.

### 5. Adjust the fire control quadrant level assembly.

Note: NOTE

Correction and elevation counters must be set to 0 when adjusting level vials.

- a. Remove lock wire and loosen setscrew and setscrew.

Note: NOTE

If bubble cannot be adjusted within one graduation, notify direct support maintenance.

- b. Adjust setscrew and screw until elevation bubble levels.

c. Tighten setscrew and setscrew and install lock wire.

6. Repair the fire control quadrant cover assembly.

## WARNING

### WARNING

Cleaning solvent is toxic and flammable. Use in well-ventilated area. Avoid breathing the vapors and keep away from ignition sources.

- a. Remove instruction plate.
- b. Clean surface with wiping rag and cleaning compound.
- c. Remove backing from new instruction plate and press on.

(Asterisks indicates a leader performance step.)

**Evaluation Preparation:** Setup: Ensure that all information, references, and equipment required to perform the task are available. Use the performance measures and the references to score the Soldier's performance. Brief the Soldier. Tell the Soldier what he is required to IAW the task conditions and standards.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Disassembled the fire control quadrant.			
2. Cleaned the fire control quadrant.			
3. Serviced the fire control quadrant.			
4. Installed the fire control quadrant.			
5. Adjusted the fire control quadrant level assembly.			
6. Repaired the fire control quadrant cover assembly.			

### Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary
	TM 9-1025-211-10	Operators Manual (Crew) for Howitzer, Medium, Towed: 155-MM, M198 (NSN 1025-01-026-6648) (EIC: 3EL) {TM 08198A-10/1} (Reprinted W/Basic Incl C1-4)	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. Environmental protection is not just the law but also 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.

**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, 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. Must be consistent with Unit Safety SOP.

**Prerequisite Individual Tasks :** None

**Supporting Individual Tasks :** None

**Supported Individual Tasks :** None

**Supported Collective Tasks :** None