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AM1303
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STUDENT OUTLINE

OPERATOR MAINTENANCE FOR A MK153 SMAW

TERMINAL LEARNING OBJECTIVES

1. Given a SL-3 complete MK153 SMAW, cleaning gear, and lubricant, perform operator maintenance for a MK153 shoulder-launched multipurpose assault weapon (SMAW) in accordance with TM 08673A-10/1. (51TR.01.01)

ENABLING LEARNING OBJECTIVES

1. Given a loaded MK153 SMAW, while wearing a fighting load, clear a MK153 SMAW in accordance with TM 08673A-10/1. (51TR.01.01b)

2. Given a SL-3 complete MK153 SMAW, disassemble a MK9 spotting rifle in accordance with TM 08673A-10/1. (51TR.01.01c)

3. Given a SL-3 complete MK153 SMAW, clean, inspect, and lubricate a MK9 spotting rifle in accordance with TM 08673A-10/1. (51TR.01.01d)

4. Given a SL-3 complete MK153 SMAW, clean, inspect, and lubricate a MK153 SMAW launcher in accordance with TM 08673A-10/1. (51TR.01.01e)

5. Given a SL-3 complete MK153 SMAW, assemble a MK9 spotting rifle in accordance with TM 08673A-10/1. (51TR.01.01f)

6. Given a SL-3 complete MK153 SMAW, perform a function check for a MK153 SMAW in accordance with TM 08673A-10/1. (51TR.01.01g)

1. **OPERATOR MAINTENANCE LEVELS FOR THE MK 153 SMAW.** As a gunner you are required to properly maintain your weapon system. The following is a guideline for authorized maintenance levels of the MK153 SMAW. Remember, before performing operator maintenance on any weapon your first step is to clear that weapon.

a. Operator Maintenance Levels

(1) Launcher - inspect/clean

(2) Optical sight - inspect/clean

(3) Spotting Rifle - inspect/field strip/ clean/lubricate

2. **OPERATOR MAINTENANCE FOR A MK153 SMAW**

a. Clear a MK153 SMAW. Before loading, performing maintenance, and after unloading you should always clear the SMAW to ensure that there is no ordinance in the weapon and that it is a completely safe weapon.

(1) Place the weapon on safe.

(2) Check the launch tube for a rocket. If a rocket is loaded into the SMAW, remove the rocket by turning the rocket counter-clockwise and pulling to the rear.

(3) Check the magazine well for a magazine. If a magazine is present, remove the magazine by pushing the magazine release and pulling downwards on the magazine.

(4) Pull cocking handle to the rear.

(5) Visually inspect the chamber for spent or live ammunition.

(6) Release the cocking handle.

b. Disassemble the MK9 Spotting Rifle

(1) Remove the sling.

(2) Remove the telescopic sight by turning the tightening wheel counter-clockwise.

(3) Depress the end of the recoil spring/buffer assembly.

(4) Remove the tube cover.

(5) Remove the recoil spring/buffer assembly.

(6) Pull cocking lever to the rear.

(7) Remove the cocking lever.

(8) Remove the bolt/carrier assembly.

(9) Disassemble the bolt/carrier assembly by rotating it counter-clockwise until the bolt separates into two pieces.

c. Clean, Inspect, and Lubricate a MK9 Spotting Rifle

(1) Clean the spotting rifle with an AP brush moistened with CLP to remove all dirt, rust, and carbon.

(2) Inspect the spotting rifle for carbon, dirt, rust, and serviceability.

(3) Lightly lubricate the spotting rifle with CLP.

(4) Clean the recoil spring/buffer assembly with an AP brush moistened with CLP to remove all dirt, rust, and carbon.

(5) Inspect the recoil spring/buffer assembly for carbon,

dirt, rust, and serviceability.

(6) Lightly lubricate the recoil spring/buffer assembly with CLP.

(7) Clean the bolt/carrier assembly with an AP brush moistened with CLP to remove all dirt, rust, and carbon.

(8) Inspect the bolt/carrier assembly carbon, dirt, rust, and serviceability.

(9) Lightly lubricate the bolt/carrier assembly with CLP.

d. Clean, Inspect, and Lubricate a MK153 Launcher

(1) Clean the launch tube by wiping clothes dampened with CLP and an 83mm bore brush.

(2) Inspect the launch tube carbon, dirt, rust, and serviceability.

(3) Utilizing a dry cloth and a 83mm bore brush to remove all traces of CLP.

(4) Clean the telescopic sights with ethyl alcohol and lens tissue.

(5) Inspect the telescopic sights dirt, rust, and serviceability.

e. Assemble the MK9 Spotting Rifle

(1) Assemble the bolt/carrier by turning the rear insert carrier counter clockwise until it stops.

(1) Insert the bolt/carrier into the spotting rifle.

(2) Insert the cocking handle into the bolt/carrier.

(3) Insert the recoil spring/buffer assembly.

(4) Insert tube cover onto the spotting rifle.

(5) Attach telescopic sight to the sight mount by rotating the captivated thumbscrew clockwise.

(6) Attach sling.

f. Perform a Function Check for a MK153 SMAW. A functions check is used to determine if the weapon is in proper working order. A functions check should be performed after every reassembly of the MK153 SMAW.

(1) Place weapon in the SAFE position.

(2) Squeeze the trigger, nothing should happen.

- (3) Place the weapon in the FIRE position.
- (4) Squeeze the trigger, nothing should happen.
- (5) Place the charging lever in the CHARGE position.
- (6) Squeeze the trigger and listen for the audible click.
- (7) Place the weapon in the SAFE position.
- (8) Squeeze the trigger nothing should happen.
- (9) Place the weapon in the FIRE position.
- (10) Depress launch lever, nothing should happen.
- (11) Squeeze the trigger, listening for an audible click.
- (12) Pull the cocking lever back.
- (13) Return cocking lever forward.
- (14) Place weapon in the CHARGE position.
- (15) Squeeze the trigger, listening for an audible click.
- (16) Depress launch lever forward.
- (17) Squeeze the trigger, observing the charging lever returning to the forward position.
- (18) Place the weapon in the SAFE position.

References: TM 08673A-10/1, Operator's Manual for Launcher Assault Rocket, 83mm, (SMAW) MK153 MOD 0; 2-17 through 2-20, 2-30 through 2-31, 3-7 through 3-15, 3-18, and 3-24 through 3-27

