

SER No	CONTENT
	<p><u>LESSON PLAN</u></p> <p><u>CHARACTERISTICS OF 5.56MM INSAS RIF, AMMUNITION , FIREPOWER, STRIPPING, ASSEMBLING AND CLEANING</u></p> <p><u>CHARACTERISTICS, AMMUNITION AND FIREPOWER</u></p>
	<p>Period - One</p> <p>Type - Lecture/Practice</p> <p>Code - WT -1</p> <p>Term - I</p> <hr/> <p>1. Calibre - 5.56mm.</p> <p>2. Length of Rifle without bayonet - 960mm.</p> <p>3. Length of Rifle with bayonet - 1110mm.</p> <p>4. Length of Barrel - 464mm.</p> <p><u>5. Weight</u></p> <p>(a) Fixed butt with empty mag - 3.6 kg.</p> <p>(b) Fixed butt with loaded mag - 3.69 kg.</p> <p>(c) Empty mag - 90 gms.</p> <p>(d) Full mag - 340gm.</p> <p>(e) Bayonet - 305 gm.</p> <p>6. Effective Range - 400 mtr.</p> <p>7. Sight Radius - 470mm.</p> <p>8. Muzzle velocity - 900m/s.</p> <p>9. Principle of operation - Gas Op.</p> <p>10. Penetration - 3mm at 700m.</p> <p>11. Mode of fire - Single shot & three round burst (TRB).</p>

12. RATE OF FIRE

- (a) Normal - 60 rds/min.
- (b) TRB (Three Round Burst) - 90 rds/min.
- (c) Intense - 150 rds /min.
- (d) Cyclic - 600 to 650 rds/min.

TYPE OF AMN

- 13. (a) Ball Rd.
- (b) Tracer Rd.
- (c) Blank Rd.
- (d) HD Cart.

STRIPPING, ASSEMBLING AND CLEANING

Introduction

14. 5.56mm INSAS rifle is the basic weapon of a soldier. It is the responsibility of the soldier to take care of his weapon. Stripping, assembling and cleaning of this weapon is very easy. If a soldier maintains the weapon properly it will produce good results.

Removing Mag

15. Hold the mag with left hand and press the mag catch to the front with thumb and remove the mag.

Stripping Assembly Cover

16. Cock the rifle and keep the change lever on 'S'. Press lever locking retainer with left hand and press the retainer to the front with right hand thumb. When retainer moves to the front, it is free from locking retainer. Now, lift the assembly opening cover and move to the front.

STRIPPING OF RECOIL SPRING

17. While pressing retainer make the recoil spring assembly free from the guide and move it out.

STRIPPING OF PISTON EXTENSION ASSEMBLY

18. Hold rear portion of piston extension and while pressing it downward, remove it from the rifle.

STRIPPING OF BREACH BLOCK

19. Hold piston extension with left hand turning it upside down and with the right hand, slide out the breach block from the recess.

STRIPPING OF FIRING PIN

20. Remove locking pin with the help of drift. Firing pin will come out.

STRIPPING OF EXTRACTOR

21. Drift tool is used for stripping of the extractor. Press the extractor with the left hand thumb. Then press access pin with pointed portion of the drift. Access pin will come out. Now remove the extractor and spring from its recess.

STRIPPING OF GAS PLUG AND PROJECT SIGHT

22. With the help of drift, remove the pin fixing gas plug and while pressing gas plug remove the gas block. Now the projector sight will also get removed.

STRIPPING OF HAND GUARD

23. The front edge of hand guard is in the cup near the gas block. Straighten the pin locking and remove it with the help of drift. Shifting the cup towards gas block, remove the hand guard.

STRIPPING OF MAG

24. While pressing retainer dimple remove bottom plate. Remove retainer spring and the platform.

ASSEMBLING OF 5.56MM INSAS RIFLE

25. Assembling of the rifle is carried out in reverse sequence of stripping as under :-

- (a) Assembling of mag.
- (b) Assembling of extractor and firing pin.
- (c) Assembling of hand guard.
- (d) Assembling of piston extension and breach block.
- (e) To insert piston extension assembly in gas cylinder and bracket.
- (f) To insert recoil spring assembly in piston extension.
- (g) To insert piston extension assembly and recoil spring in body housing.

(h) To close cover assembly and loading of retainer.

(j) Fix mag/

INSPECTION AFTER ASSEMBLING OF RIFLE

26. (a) Remove mag.

(b) Move change lever to `R`.

(c) Cock the rifle.

(d) Ensure piston extension has completely moved forward.

(e) Move change lever to `S`.

(f) Try to press trigger, it will not get pressed.

CLEANING OF 5.56MM INSAS RIFLE

27. Items required for cleaning are :-

(a) Oil bottle with oil.

(b) Brush cleaning bore.

(c) Brush cleaning chamber.

(d) Pullthrough.

(e) Rod cleaning barrel.

(f) Tool adjusting for sight / rear sight.

(g) Tool removing repair case.

(h) Chindi.

(j) Drift.

RIFLE PARTS TO BE OILED

28. (a) Complete breach block less its face.

(b) Mag catch.

(c) Trigger mechanism.

(d) Rifle spring assembly.

RIFLE PARTS NOT TO BE OILED

29. (a) Barrel.

(b) Cylinder gas.

(c) Plug gas.

(d) Piston extension assembly.

(e) Mag platform site.

	<p>30. Field strip the rifle and clean its parts. Clean bore with pullthrough and chindi. Oil the bore. Oil brush cleaning cylinder, and clean cylinder gas. Clean cylinder with pullthrough and chindi. Gas affected parts like breach block, piston, extension and firing pin to be cleaned carefully so that gas fouling is completely removed.. After cleaning, parts requiring oil to be oiled with a piece of cloth. .Do not rub hard outer surface of the rifle with soaked oil..</p>
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