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Chapter 3

AMMUNITION STOWAGE =====

AMMUNITION ARRANGEMENT IN VEHICLE

Allocation of ammunition diagram is on Fig. 8. The vehicle carries 44 rounds of ammunition for main gun arranged as follows:

- 22 rounds in rotating transporter of loading-machine. The ammunition could be placed in any order;
- 22 rounds in storage racks.

The ammunition in storage racks may be placed in any convenient order except for events described below. As ammunition from rotating transporter /TO/ is used, the crew fills up empty places in TO with rounds from racks or /if combat engagement allows/ loads the gun with the rounds taken immediately from stowage. Never place armour-piercing projectiles into front tankrack.

The arrangement of ammunition is as follows:

- 6 projectiles in vehicle turret, e.g. 2 on rotating transporter platform behind the commander's seat, 1 on rotating platform behind gunner's seat near the cassette elevation mechanism, 1 armour-piercing projectile on the rotating platform on the left side under the gun, 2 armour piercing projectiles in turret bay behind gunner's seat;
- 16 projectiles in hull, e.g. 3 high-explosiver or hollow-charge projectiles in front tank-rack, 4 in rack on the right side engine partition, 4 in storage rack on the left side engine partition, 3 on the left side wall behind gunner's seat, and 2 armour-piercing behind the vehicle starter batteries;
- 5 cartridges in turret, e.g. 1 in front of commander's seat, 2 behind commander's seat, 1 in front of gunner's seat, and 1 behind gunner's seat;

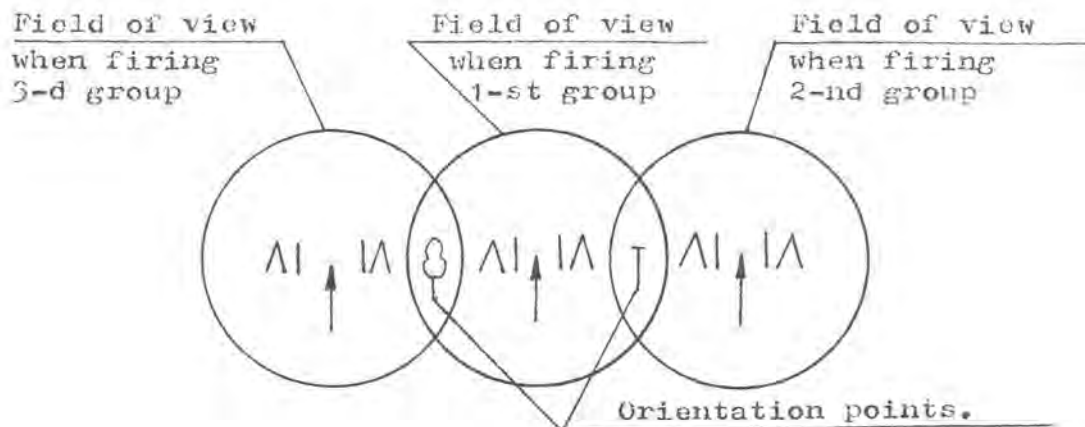
2. Smoke grenade firing

To create smoke screening in desired direction, slew the turret to this direction, sight field of view central mark indicates screening direction.

When smoke screening, correct the direction taking into account wind direction and speed. This could be estimated on base of optical observation. Depending on situation and need, the screening could be wide or narrow. Narrow screen, while on move, is executed by sequent firing group of grenades from four discharges at desired direction.

To execute a wide screen, proceed as follows:

- select the general direction of screening, lay the central mark of sight field of view at this direction, fire the first grenade group in this direction;
- while firing the first group, select two stable orientation points in terrain, at a distance of up to 200 m, these points should be on the left and right sides ends of sight field of view /see sketch below/;
- slew turret right by roughly 135 mil. The right orientation point should be now on the left end of sight field-of-view, fire the second grenade group;
- with the same procedure and slewing the gun to the left, fire the third group of smoke grenades.



When the main prism of device has to be heated, turn handle of heating switch to PRISM ON /WŁĄCZ PRIZMA/position.

OPERATIONAL CHARACTERISTICS

Specificity of night observation with TWNE-5B device requires some special driver's skills. The picture is unicoloured and is not as readable as with day observation device picture.

When using TWNE-4B device without head-light, observed objects do not have shade. This deforms the shape of terrain. The crew should learn the recognition of objects and terrain shape in device field of view.

The oncoming flashes of search-lights, rockets, fires and other sources of light cause bright spots and streaks in device field of view. This makes the observation more difficult. To overcome this phenomenon, cover the field of view with lightshade and blind of device.

Use light shade to observe the terrain on bright horizon background.

To reach clear and contrast picture of illuminated terrain /at dawn, dusk, in moonlight, ect./, use device blind.

With poor illumination /dark night, on glades, in defile, ect. /, use FG-125 head-light.

To ensure camouflage requirements, use head-light only if necessary, in situation, when driving without this light is impossible.

GENERAL MAINTANANCE

TWNE-4B device and its housing should be always maintained clean. Remove dirt and dust just after the operation. Metal parts clean with clean cloth and optical elements - with flannel.

Fig. 4

