

# I-MILES TVS

TACTICAL VEHICLE SYSTEM

## MAJiK SETUP PROCEDURES

### REQUIRED EQUIPMENT AND CONDITIONS

1. Vehicle weapon with BFA attached
2. I-MILES TVS Small Arms Transmitter (SAT) installed
3. TVS Kit that is associated to the SAT
4. Control Gun (optional)
5. MAJiK
6. MAJiK Tripod Assembly
7. Bore Scope (RWS only)

### MAJiK SETUP PROCEDURES

1. Open case (Fig. 1)  
*Note: Inspect mirror, target arm, and target card for physical damage.*
2. Pull target arm to vertical (Fig. 2)
3. Continue to rotate target arm to horizontal keeping arm level (Fig. 3)
4. Rotate target card to vertical (Fig. 4) as shown in Fig. 5
5. Rotate mirror to vertical (Fig. 6)
6. Reverse actions to properly close the assembly to the transit condition

Fig. 1

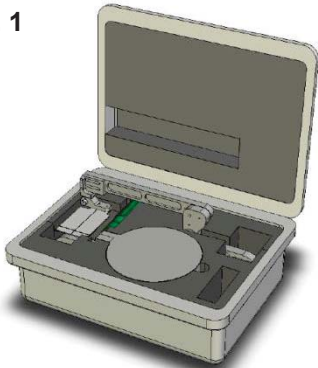


Fig. 2

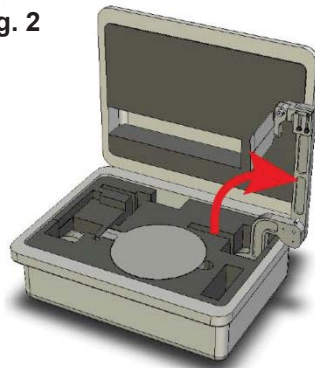


Fig. 3

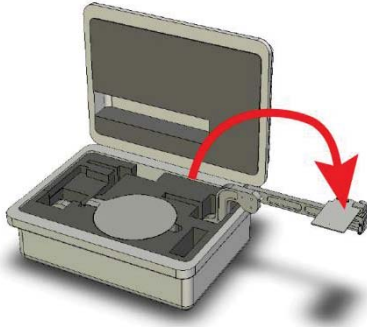


Fig. 4

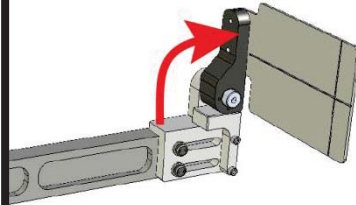


Fig. 5

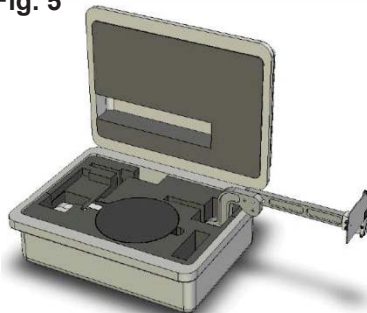


Fig. 6

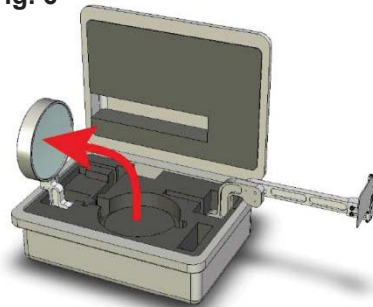




Fig. 7



Fig. 8



Fig. 9

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## Tripod SETUP PROCEDURES

### **Warning:**

*Use Caution and avoid trip hazards while climbing on vehicles. Placement of the Tripod and MAJiK on the vehicle requires two persons.*

### **STEP-BY-STEP TRIPOD SETUP**

1. Open tripod and install tripod base plate (Fig. 7)  
*Note: Inspect tripod and base plate for physical damage.*
2. Place tripod on vehicle hood or roof as shown in Fig. 8 & 9.
3. Adjust the height of the tripod and angle of the base plate so that the base plate and weapon barrel are parallel with the base plate, approximately 10 inches lower than the barrel.
4. Place the open MAJiK on the tripod base plate.
5. The distance from the SAT to the MAJiK is not significant as long as the shooter can see the visible red laser on the target card as shown in Fig. 10.
6. Reverse actions after completion of alignment process on pages 3 and 4.

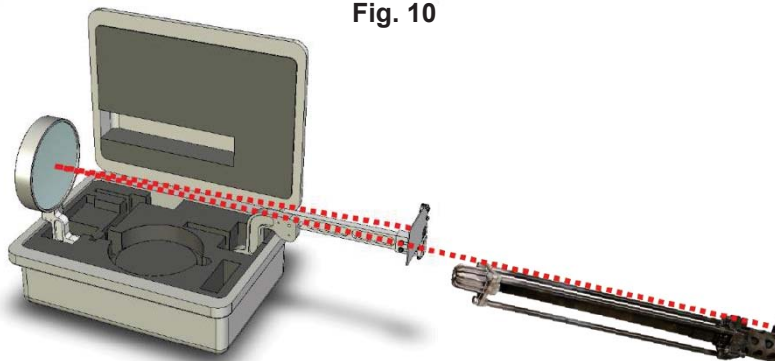


Fig. 10

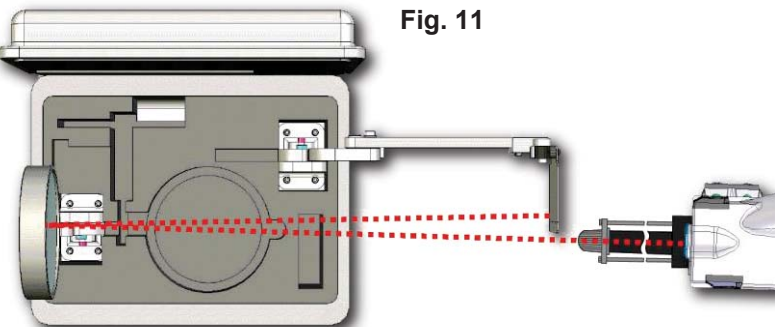


Fig. 11

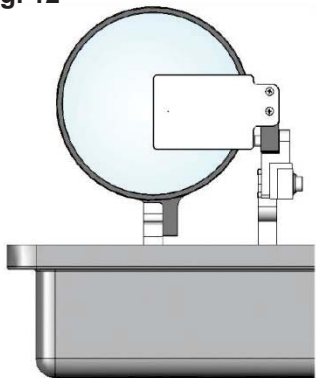


Fig. 12

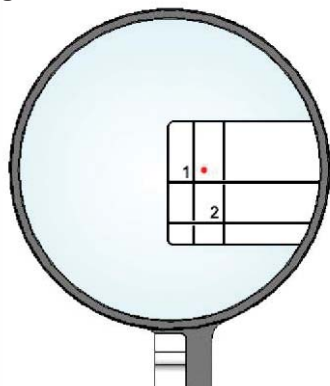


Fig. 13

# I-MILES TVS

TACTICAL VEHICLE SYSTEM

## Mirror Alignment Jig Kit (MAJiK)



Suitable precautions must be taken to avoid possible damage to the eye.

Precautionary measures include:

NEVER point the red laser at personnel.

NEVER stare at the visible (red) laser transmission. Use your natural instinct.

NEVER stare at the visible laser transmission through magnifying optics.

### STEP-BY-STEP LASER ALIGNMENT PROCEDURE

**NOTE:** Go to page 4 for RWS alignment.

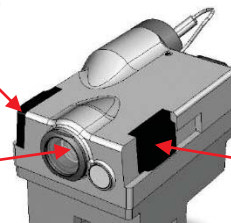
1. Set up the tripod, base plate, and MAJiK per page 1 and 2.
2. Position MAJiK and tripod so the shooter sets up the SAT slightly left and behind the target card. This view should look like Fig. 12.
3. Shooter should set the weapon's SAT in a position like shown in Fig. 10 & 11.
4. Turn SAT visible laser on by using the CCM (or Control Gun).
5. The shooter should see the reflective red dot on the target card in the mirror similar to Figure 13. Aim weapon sight at crosshair.
6. Turn the SAT AZ & EL knobs shown in Fig. 14, moving the red laser until the laser dot is in the center of the target card cross hairs used above. Weapon sight and red laser should overlap.
7. Red Laser times-out at 60 seconds. Reactivate if necessary.
8. Turn off the red laser.

Alignment Knob (AZ)

LASERS

Fig. 14

Alignment Knob (EL)

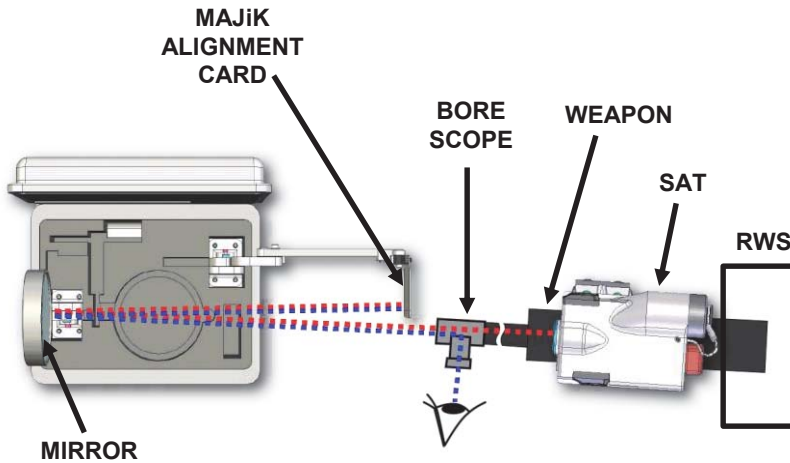


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## Mirror Alignment Jig Kit (MAJiK)

Fig. 15

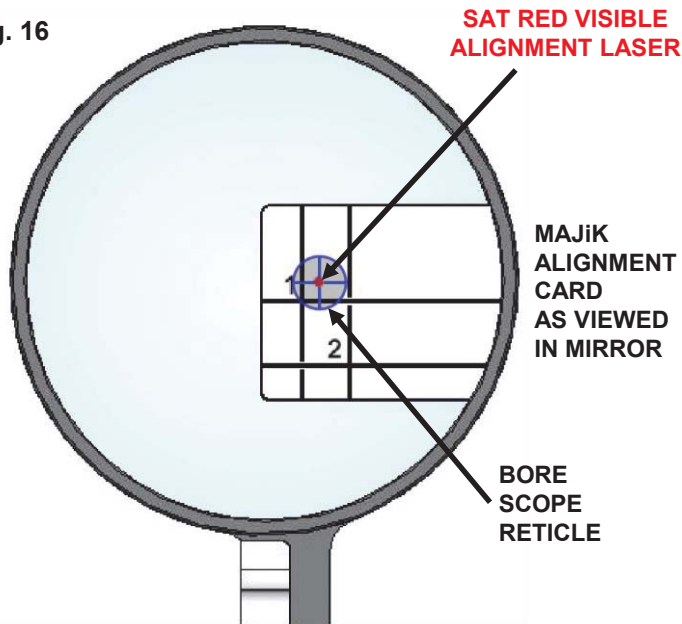


Suitable precautions must be taken to avoid possible damage to the eye. Precautionary measures include:  
**NEVER** point the red laser at personnel.  
**NEVER** stare at the visible (red) laser transmission. Use your natural instinct.  
**NEVER** stare at the visible laser transmission through magnifying optics.

### RWS STEP-BY-STEP LASER ALIGNMENT PROCEDURE

1. Align weapon with RWS optics using the bore scope per Army SOP. Completion of this process will ensure the RWS optics are aligned with the bore of the weapon. Position MAJiK and tripod so the shooter sets up the SAT slightly left and behind the target card. This view should look like Fig. 12.
2. Set RWS to "MILES" mode.
3. Rotate the RWS to six o'clock position.
4. Position tripod and MAJiK from end of barrel (Fig. 15) where tripod is stable.
5. Adjust MAJiK and RWS such that the view through the bore scope is as shown in Fig. 16.
6. Turn SAT visible laser on by using the CCM (or Control Gun).
7. Turn the SAT AZ & EL knobs shown in Fig. 14, moving the red laser until the laser dot is in the center of the bore scope reticle as shown in Fig. 16.
8. Red Laser times-out at 60 seconds. Reactivate if necessary.
9. Turn off the red laser.

Fig. 16



Alignment Knob (AZ)

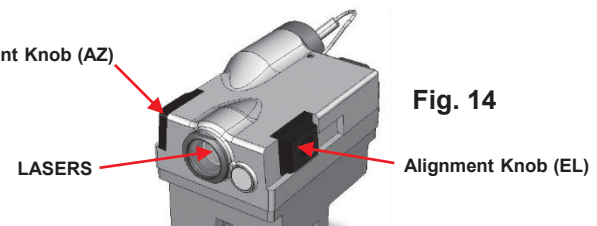


Fig. 14