

## SAT ALIGNMENT USING MAJiK ASSEMBLY

### WARNING

I-MILES IWS 2 SAT (Code 27 and 24) visible red laser is classified ANSI Class 2. Personnel should never stare at the alignment laser or intentionally aim the laser into another person's eyes. Failure to comply could result in serious eye damage and/or blindness.



### INPUT CONDITIONS

#### Personnel:

Two (2) persons.

#### Components/Equipment:

Infantry Weapon; Crew Served Weapon.  
 Small Arms Transmitter (SAT) (Code 27 or Code 24).  
 Universal Controller Device (UCD) or MILES Control Device (MCD).  
 Harness Control Unit (HCU).  
 Mirror Alignment Jig Kit (MAJiK).  
 Flat-blade screwdriver or coin.  
 Table and sand bag(s).

#### Equipment Conditions:

SAT fitted onto weapon (torque to specifications).  
 Batteries installed into SAT and HCU  
 HCU Reset (Alive).  
 SAT associated to harness.



SAT Code 27



SAT Code 24



Harness/HCU



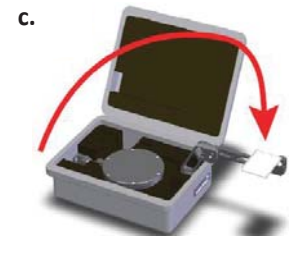
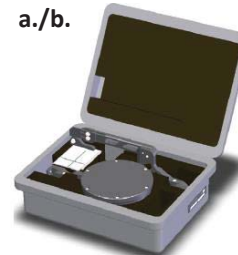
MAJiK

1

### SET UP MAJiK

- Place MAJiK on a stable flat area or surface (ground or table).
- Open MAJiK case.
- Extend target arm to level stop position.
- Extend target card to vertical position on the leveled target arm.
- Extend mirror assembly to vertical position.
- Place sand bag(s) adjacent to the MAJiK case at the target arm end of the case to stabilize case, if required.

MAJiK is now ready for SAT alignment procedure.



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## 2 ALIGN SAT USING MAJiK

- a. Place weapon on top of sand bag(s) to steady weapon during alignment process; Position SAT slightly left and behind the target card.
- b. Locate weapon sight; Looking or aiming into mirror, ensure you are able to see the target card while looking through the sights (See Figure "a").

### NOTE:

If weapon has magnified sights (Scope, CCO, MCD) it may be necessary to back up some distance from device to ensure proper sight picture and visible red laser to contact target card.

- c. Turn on visible red laser using UCD (Primary method).
  - i. (Alternate method) Using HCU, Press any key to wake up HCU; view main menu.
  - ii. Press  two (2) times; then Press  to enter and view alignment submenu.
  - iii. Press  to turn on visible red laser on the SAT.

### NOTE:

A good IR link is required to turn on the visible red laser. The SAT may need to be positioned at 11 o'clock position slightly elevated to harness Comms module to acquire a good communications link.

- d. While keeping weapon sight on crosshair, move red dot to crosshairs of target card using azimuth and elevation alignment screws (standard flat-blade screwdriver or coin).

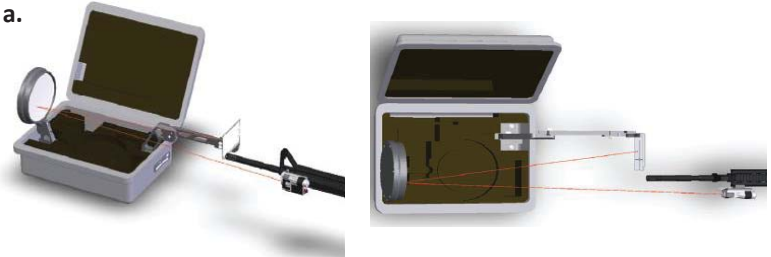
### NOTE:

Both the visible laser of SAT and weapon sights must be visible on target card when looking through sights. The crosshair of the target card is for reference only. Align visible laser to weapon sight by adjusting azimuth/elevation screws.

- e. Turn off visible red laser (either wait for automatic time out or use of control menu selections).

SAT is now ready for operation.

a.



c(i.)



c(ii./iii.)

ALIGNMENT

PRESS ENTER FOR RED LASER

d.

