

STRYKER TOW SIMULATOR (STS) FOR ATGM DELTA KIT

**Training Category/Level Utilized:**

Armor/Level 1

Logistic Responsible Command, Service, or Agency:

PEO-STRI, Orlando FL

Source and Method of Obtaining:

Available through local TSC

Purpose of Trainer:

The STS is used for situational training exercises (STX) or field training exercises (FTX) in a MILES or TES force on-force environment. The STS is designed to be used in conjunction with the MILES XXI Stryker Common Kit, P/N 2031790-1, and MILES XXI Stryker ATGM Delta Kit, P/N 2031794-1, when installed on the M1134 Stryker ATGM Vehicle. The STS replaces the ATGM Field Tactical Trainer (FTT), previously used on this vehicle for force-on-force training applications.

Functional Description:

The STS is comprised of two main assemblies, the TOW Laser Device (TLD) and TOW ATWESS Device (TAD). Also included are three cables used to interface the STS to the Stryker ATGM weapons system when used in MILES training exercises.

The TLD provides for the laser simulation of the TOW missile round. The TLD is built in a "tube" configuration that is approximately half the length of a TOW missile body, and is installed into the ATGM launch tube in a similar manner.

The TAD fires Anti-Tank Weapons Effect Signature Simulator (ATWESS) cartridges that replicate the initial launch explosion of a TOW missile. The TAD is built in a "tube" configuration that is approximately half the length of a TOW missile body, and is installed into the ATGM

launch tube in a similar manner.

The STS system is fully interoperable with the MILES XXI system, and receives configuration information such as Player ID, and ammo load from the MILES XXI, as well as vehicle casualty status which is used to determine if the TOW weapon may be fired.

Physical Information:



TOW Laser Device

Weight: 20 lbs (9.1 kg)

Dimensions: Length = 29.5 inches (74.9 cm)
 Diameter = 8.25 inches (21 cm)



TOW ATWES Device

Weight: 19 lbs (8.6 kg)

Dimensions: Length = 29.5 inches (74.9 cm)
 Diameter = 8.25 inches (21 cm)



STS Kit in Transit Case

Weight: 79 lbs (35.8 kg)

Dimensions: Length = 38.5 inches (97.8 cm)
 Height = 13.0 inches (33.0 cm)
 Width = 24.5 inches (62.2 cm)

Equipment Required, Not Supplied:

MILES XXI Stryker Common Kit -- P/N 2031790-1
MILES XXI Stryker ATGM Delta Kit -- P/N 2031794-1

Special Installation Requirements:

Required tools are part of Stryker BII toolkit. For installation procedures, see App. F of TM 9-6920-919-10.

Power Requirements:

+24 VDC vehicle power

Applicable Publications:

TM 9-6920-919-10 – Operator’s Manual, Multiple Integrated Laser Engagement System (MILES XXI), Combat Vehicle System (CVS) Kit for STRYKER Series Vehicle – Anti-tank Guided Missile (ATGM)

Reference Publications:

SMM 9-6920-908-24 – System Maintenance Manual, General Support Maintenance, Repair Parts and Special Tools Lists, Multiple Integrated Laser Engagement System (MILES XXI), Combat Vehicle System (CVS) Kits

Training Requirements Supported:

MILES force-on-force and force-on-target training