

**TANK WEAPON GUNNERY SIMULATION SYSTEM/PRECISION
GUNNERY SYSTEM
(TWGSS/PGS)**

DVC 17-172/1 (TWGSS/PGS) TWGSS for M1, M1A1 and M1IP

DVC 17-172/2 (TWGSS/PGS) TWGSS for M1A2

DVC 17-172/3 (TWGSS/PGS) PGS for M2/M3, M2A1/M3A1, and M2A2/M3A2

DVC 17-172/4 (TWGSS/PGS) TWGSS for the Armored Gun System (AGS)

DVC 17-172/6 (TWGSS/PGS) Retro reflectors

DVC 17-172/6A (TWGSS/PGS) for M60A3

DVC 17-172/7 (TWGSS/PGS) Controller Gun

DVC 17-172/8 (TWGSS/PGS) for M1A2 Main Battle Tank: System Enhancement

DVC 17-172/9 (TWGSS/PGS) PGS for M2A3/M3A3 Bradley Fighting Vehicle

DVC 17-172/10 (TWGSS/PGS) PGS for M6 Bradley Fighting Vehicle Linebacker

DVC 17-172/11 (TSV) for M1A1/M1A2 Main Battle Tank and M3 (BFV) (PGS)



Functional Description:

The Tank Weapon Gunnery Simulation System (TWGSS) is a vehicle mounted device. The TWGSS can be mounted on M1, M1IP, M1A1, and M1A2 main battle tanks, and simulates main gun and coaxial machine gun firing. The TWGSS uses a laser transceiver, retroreflectors, detectors, computer system, tracer burst obscuration, an aural cue effects generator, control panel target interface, and after action review computer. A controller gun has been designed for use in force-on-force training. The controller gun will allow a referee to intervene and control the training scenario from a range of up to 2000 meters.

Purpose of Trainer:

The Tank Weapon Gunnery Simulation System (TWGSS) for M1, M1A1, M1A2, and M1IP Main Battle Tanks and Precision Gunnery System (PGS) for M2/M3, M2A1/M3A1, and M2A2/M3A2 Bradley Fighting Vehicle (TWGSS/PGS) develops, maintains, and evaluates crew and unit proficiency in gunnery skills. TWGSS trains gunnery tasks as described in Tank Gunnery Manuals (FM17-12 series). It also trains those tasks for maneuver exercises at platoon, company, and battalion level in ARTEPs 17-237-10, 17-385 and 17-485 MTPs. PGS trains gunnery tasks as described in M2/M3 manuals FM 23-1 and FT 25-A1. It also trains those tasks for maneuver exercises at platoon, company, and battalion level in ARTEPs 7-70 Drill, 17-57-10 MTP and 7-20 MTP. TWGSS/PGS is used to provide realistic simulations for the preparation of live firing the gunnery tables in day and night conditions. It allows the training of crews in collective tasks for platoon, company, and battalion level force-on-force exercises. With

DVC 17-172 THRU 172/14

Purpose of Trainer:

TWGSS/PGS, precision gunnery is integrated with tactical training, to give the crews experience in precision and degraded mode gunnery while under the pressure of opposing force engagements. For Device 17-172/1, a retrofit kit (Device 17-172/1A) is available to adapt TWGSS to the M1A2 tank.

Physical Information:

Information not available

Equipment Required, Not Supplied:

Battery, 9v, Alkaline

Special Installation Requirements:

None

Power Requirements:

21-29vdc

Training Category/Level Utilized:

Armor/Level 1

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

Reference Publications:

Information not available

Source and Method of Obtaining:

Available through local TSC.

Logistic Responsible Command, Service, or Agency:

PEO STRI