



105MM M490 TP-T

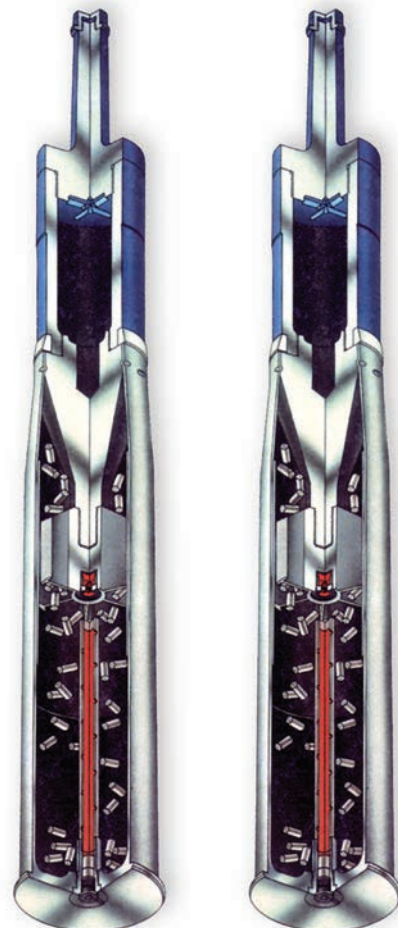
Target Practice - Tracer



Purpose: This cartridge is for use in 105mm gun cannons for training in marksmanship.

Description: The cartridge is similar in external appearance and ballistically similar to the M456 HEAT-T cartridge. The projectile consists of a steel body, an aluminum stand-off spike, and a boom and fin assembly with tracer. The cartridge case is filled with loosely packed propellant and is fitted with an electronic primer.

Operation: The electrically initiated primer ignites the propelling charge. Gases produced by the burning propellant propel the projectile from the gun and ignite the tracer, which burns for a minimum of 2.5 seconds.



105MM M490 TP-T

Target Practice - Tracer



Characteristics

Type Classification Std AMCTC 1103 afd 1963

Complete Round:

Weight 45 lb (20.4 kg)

Length 39.0 (990.6 mm)

Cannon used with M68

Projectile:

Body material Steel

Color Blue w/white marking

Components:

Cartridge case M148A1B1, M148A1

Propelling charge M30

Primer M83

Tracer M13

Performance:

Maximum range 8,207 m (8,975 yd)

Muzzle velocity 1,170 mps (3,850 fps)

Temperature Limits

Firing:

Lower limit -40°F (-40°C)

Upper limit +125°F (+52.0°C)

Storage:

Lower limit -80°F (-62.2°C)
(for period not more than 3 days)

Upper limit +160°F (+71.1°C)
(for period not more than 4 hr/day)

Packing

1 round per fiber container; 2 containers per wooden box:

Packing Box:

Weight 132 lb (59.9 kg)

Dimensions 45^{7/8} x 14^{1/2} x 8^{3/4} in.
(1165.1 x 368.3 x 222.3 mm)

Cube 3.3 cu ft (.09 cu m)

Shipping & Storage Data

Storage class/SCG (08) 1.2C

DOT shipping class B

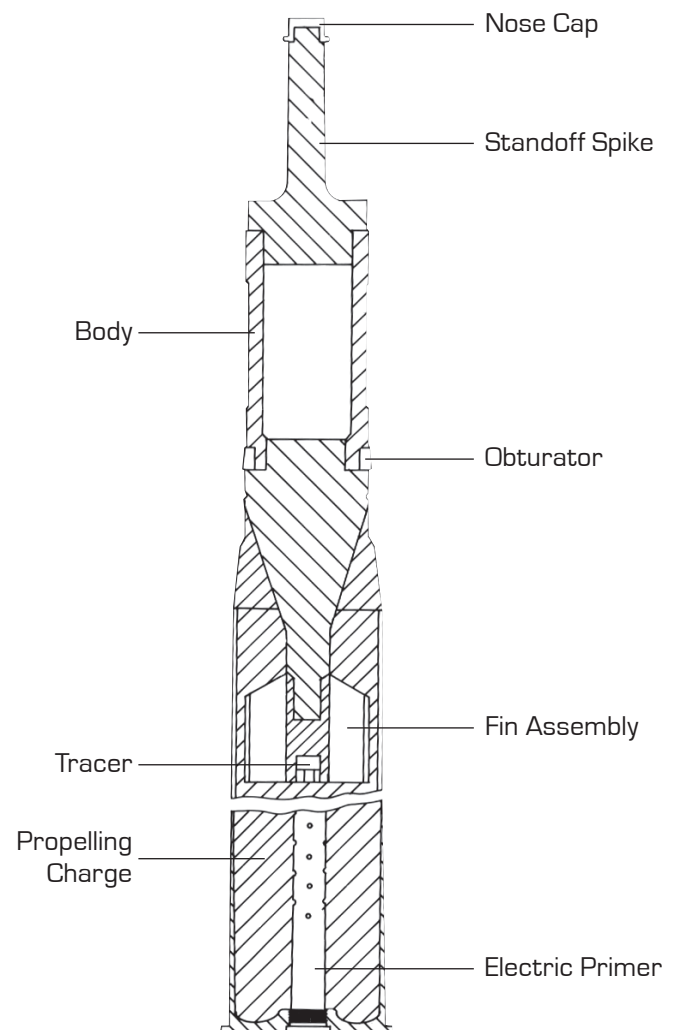
DOT designation AMMUNITION FOR CANNON
WITH EMPTY PROJECTILES

DODAC 1315-C511

Drawing number 8865533

Limitations

Cartridge M490 manufactured prior to January 1967 have a cartridge case liner that utilizes a low-melt wax. Do not fire cartridges that have been tank transported at temperatures above +120°F (+49°C)



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