

Heavy Expanded Mobility Tactical Truck (HEMTT)/ HEMTT Extended Service Program (ESP)

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance

MISSION

Supports combat units by performing line and local haul, unit resupply, aviation refueling, tactical vehicle refueling, and related missions in a tactical environment.

DESCRIPTION

The Heavy Expanded Mobility Tactical Truck (HEMTT) 10-ton, 8-wheel drive is designed for cross-country military missions up to 11 tons to transport ammunition, petroleum, oils, and lubricants. Variants include: M977, M985, M978, M983, M984 and M1120.

The M977 is utilized for delivery of general supplies, equipment, and ammunition with an onboard crane with 4,500 pounds load capacity. The M985 cargo has an onboard crane with 5,400 pounds load capacity and is the primary transporter for Multiple Launch Rocket System (MLRS) ammunition. The M978 tanker is a 2,500 gallon fuel transporter

for field refueling of ground vehicles and aircraft. The M984 wrecker includes a crane and winch retrieval system and serves the primary role of recovery and evacuation of heavy wheel vehicles and combat systems. The M983 Tractor is the prime mover for the PATRIOT missile. The M983 Light Equipment Transporter (LET) Tractor serves as the prime mover for tactical semitrailers in engineering units to include the M870 series, Intermediate Stryker Recovery System (ISRS), and Mine Resistant Ambush Protected (MRAP) vehicles. The HEMTT Load Handling System (LHS) provides NATO interoperability with standard flatrack and mission modules for delivery of general supplies, equipment, and ammunition with Palletized Load System (PLS) style load handling systems. The system is compatible with the PLS Trailer, capable of a 26,000 pound payload.

The HEMTT A4 began fielding in December 2008. Enhancements include a modern power train consisting of a Caterpillar C-15/500 horsepower Engine and Allison Transmission (4500 SP/5-speed automatic), anti-lock braking system and traction control, air-ride

suspension, a J-1939 data-bus providing an updated electrical system, climate control, and a larger common cab.

HEMTT ESP, known as HEMTT RECAP, is a recapitalization program that converts high-mileage, older version HEMTT trucks into the current A4 production configuration. Modernizing the fleet to one model reduces logistic footprint and operational and sustainment (O&S) cost of maintaining old vehicles.

HEMTT has several configurations:

- M977: Cargo truck with light materiel handling crane
- M985: Cargo truck with heavy materiel handling crane
- M978: 2,500-gallon fuel tanker
- M984: Wrecker
- M983: Tractor
- M983 LET: LET fifth wheel vertical loading has 45K winch with gross towing weight of 45.4 kilograms
- M1120: LHS transports palletized materiel and International Standards Organization (ISO) containers

SYSTEM INTERDEPENDENCIES

Other Major Interdependencies

The M983 HEMTT LET Tractor paired with the Fifth Wheel Towing Device and High Mobility Recovery Trailer are together designated as the Interim Stryker Recovery System (ISRS) for Stryker and MRAP recovery. Other vehicles that utilize the HEMTT chassis are: M1142 Tactical Fire Fighting Trucks, M1158 Heavy Mobility Water Tender Truck, M1977 HEMTT Common Bridge Transporter (CBT), Theatre High Altitude Area Defense Missile System (THAAD), and the M985 GMT Guided Missile Transport used in PATRIOT Battalions.

PROGRAM STATUS

- **1QFY09:** HEMTT A4 Family of Vehicles was type classified standard and full materiel released (TC/MR)

PROJECTED ACTIVITIES

- **FY12:** Distribute HEMTT A4s in accordance with Headquarters Department of the Army G8 distribution plan to next deployers to Theater, Army National Guard, Army Reserve, Homeland Defense, and Army Prepositioned Stock

ACQUISITION PHASE

Technology Development

Engineering and Manufacturing Development

Production and Deployment

Operations and Support

Heavy Expanded Mobility Tactical Truck (HEMTT)/HEMTT Extended Service Program (ESP)

FOREIGN MILITARY SALES

Egypt

CONTRACTORS

Prime:

Oshkosh Corp. (Oshkosh, WI; Killeen, TX)

Engine:

Caterpillar (Peoria, IL)

Transmission:

Allison Transmission (Indianapolis, IN)

Tires:

Michelin (Greenville, SC)

