PM Heavy Tactical Vehicle

The Life Cycle Management of Heavy Tactical Wheeled Vehicles enabling the Modular, Joint Expeditionary Force

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THE ARMY TRUCK TEAM ~ “You Call, We Haul” February 2009
Heavy Tactical Vehicles
21 Products, 10 OEMs

- M977 – Heavy Expanded Mobility Tactical Truck (HEMTT) Cargo
- M995 – HEMTT Cargo w/MHC
- M978 – HEMTT Tanker, 2500 gal
- M983 – HEMTT Tractor
- M984 – HEMTT Wrecker
- M1120 – HEMTT LHS
- HEMTT A3 – Electric Hybrid Tech Demonstrator
- HEMTT A4 – LTAS + Improved Performance
- HEMTT M983 Tractor / LET
- HEMTT RECAP

- M1074 – Palletized Load System (PLS) w/MHC
- M1075 – PLS Truck
- M1076 – PLS Trailer
- PLS A1 – LTAS and Improved Performance

- M1070 – Heavy Equipment Transporter System (HETS)
- M1000 – HETS Semi-trailer
- HETS A1 – Improved Performance

- M1142 – Tactical Firefighting Truck (TFFT)
- M1158 – HEMTT-based Water Tender (HEWATT)

- M3/M3 A1 – Container Roll On/Off Platform (CROP)
  Container Handling Unit (CHU)
- M1, M1077/M1077 A1 – Flat rack

- M915 Line Haul Tractor
- M915 A5 – LTAS + Improved Performance
- M916 – Light Equipment Transporter (LET)
- M917 – 20 Ton Dump

Fifth Wheel Towing Device (FWTD)
- M870 A3 – 40 ton Low Boy Trailer
- M871 A3 – 22.5 ton Flatbed Trailer
- M872 A4 – 34 ton Flatbed Trailer
- M989 A1 – HEMAT
- M967 A2 – 5000 Gal Bulkhaul Tanker
- M969 A3 – 5000 Gal Refueler Tanker

AOR
- Interim Stryker Recovery System
- External Fire Suppression
- Armor
- LED Headlights
- Improved Seats

THE ARMY TRUCK TEAM ~ “You Call, We Haul”
HEMTT (7 Variants), PLS, PLS-Trailer
- Heavy Capacity Hauling (HEMTT 11.5 Ton, PLS 16 Ton)
- Inherent Container Handling/Transport

- Unit Mobility
- Ammunition Resupply
- Fuel Resupply
- Recovery Systems
The M915A3 line haul truck tractor is used primarily to transport the 22 ½ ton and 34 ton flatbeds, the M1062 7.5K-gallon, and the M967/M969, 5K-gallon semi-trailers. The M871 is a 22 ½ ton capable tactical, dual purpose semitrailer that transports break bulk cargo and 20 ft. ISO containers. The M872 is a 34 ton capable local line haul of break bulk and 20 ft. ISO containers. The M916A3 Light Equipment Transporter is used primarily to tow the 40 ton M870 lowbed semitrailer. The M870A3 trailer is a low-bed trailer used by Combat Engineer units to transport Engineer Construction Equipment (ECE) and associated materials suitable for transport.

- Unit Resupply
- Unit Mobility
- Ammunition Resupply
- Fuel Resupply
• TFFT offers the mobility of the HEMTT, a crew of 6, and a 1,000 gal water pump fire fighting system.
• HEWATT provides water tender capabilities (2,500 gal) and limited stand alone fire fighting capabilities
• HETS is a capable prime mover for the Army’s M1 main battle tank

- Heavy Unit Mobility
- Firefighting Platform
- Water Resupply

THE ARMY TRUCK TEAM ~ “You Call, We Haul”
HTV Armor Development

Continuing to Improve

Gen I
(Bosnia Armor)

M915 EFP
ARMOR

Gen III
(w/ Applique)

HEMT A4 LTAS
(Integrated A/B Kit)

HET Gen II AoA

February 2009
Direct AOR Support

M915 Cab Field Kit

- Durable solution transfers AoA weight away from cab to frame rails
- Prevent cab structural and related component damage and failures
- 10 Kits installed for prove out JAN 08

Interim Stryker Recovery System is a M983A2 LET pulling a modified Fifth Wheel Towing Recovery Device (FWTRD) and a High Mobility Recovery Trailer (HMRT). The HMRT has a 30T payload carrying capacity, the FWTRD has a 16T lift and tow capacity

External Fire Suppression

- FIRETRACE
  - Plastic panels which are designed to shatter upon impact releasing fire suppressing powder
- HRS NCASE
  - Kevlar “quilt” made of 6” pouches of fire suppressant powder. Each section is independently stitched

Seating Upgrade

New Seats
- PM provided 300 Bostrom upgrade seat sets to theater for M915s
- Outfit convoy HEMTT Wreckers and HETs with GSS Seats
  - 255 HET Seat kits
  - 30 HEMTT Wrecker Seat Kits

Fielding began Summer 08

Fielding began SEP 08

Fielding 18 systems began Fall 08
Basic HEMTT
- 8V92 MUI Engine
- HT 740 Transmission
- Hendrickson Suspension
- Air Trans on C130, C141
- AoA Cab

HEMTT A2
- AoA Cab
- 8V92 DDEC IV Engine
- Allison Electronic Transmission
- Corrosion Protection Upgrades

HEMTT A4
- B-Kit Ready
- Modern Power Train
- Air Ride Suspension
- Updated Electrical System
- ABS & Traction Control
- Climate Control
- Common Cab with PLS
- RECAP Cost < Cost of New Production w/ Tech Insertion (B-Kit Ready)
Evolution of HEMTT RECAP

- Established in 2001 by the VSCA directive to lower O&S costs of HEMTT fleet
- Upgrades fleet to “B kit ready” model with added crew protection
- Emphasis on integrating affordable technology upgrades
- Inducts old, worn out HEMTT’s and produces a like-new vehicle with the same configuration as new production at less cost
- Focusing on Logistic Foot Print reduction
- Dependent upon availability of core “seed”

HEMTT RECAP is critical to a B-Kit capable HEMTT fleet

Core Truck in Teardown

After RECAP – B kit Ready!
HEMTT B-KIT MODERNIZATION

O/H Qty

AOR Fleet

HEMTT A4 RECAP Production B-Kit Compatible

HEMTT A4 New Production B-Kit Compatible

A2 Model

A0 Basic

RECAP = 590 per year FY 11-27
History / Future

Basic PLS
- 8V92 DDEC III/IV Engine
- CLT 755 Transmission
- Hendrickson Suspension
- Air Transportable on C141, C5, C17

PLS A1
- B-Kit Ready
- Modern Power Train
- Independent Front Suspension
- Updated Electrical System
- ABS & Traction Control
- Climate Control
- Common Cab with HEMTT

PLS RECAP Way Ahead
- PLS basic inducted, returned as PLS A1
- RECAP Cost < Cost of New Production w/Tech Insertion
- Currently funded FY10-12 only

Better, B-Kit Capable Truck

1994-2008

2009

2010 - 2025

February 2009
PLS B-KIT MODERNIZATION

AOR Fleet

PLS A1 RECAP Production
B-Kit Capable

PLS A1 New Production
B-Kit Capable

RECAP = 313 per year

O/H Qty

2007 2010 2015 2020 2025 2030 2035

February 2009
HTV Significant Events for FY09

- **OEF/OIF Support**
  - Fielding HEMTT A4 w/ B-Kits
  - M915 Cab Field Kit installation
  - Interim Stryker Recovery System support
  - Fire Suppression Kits for HEMTT, PLS, HET and M915FOV

- **Continued record production levels for all HTV product lines**

- **Fleet Modernization**
  - PLSA1 / HET A1 testing
  - M915A5 testing / production cut-in
  - Enhanced container Handling Unit enters production

- **Family of Heavy Tactical Vehicles contract negotiation**
Two Customers

The Warfighter + The Taxpayer

We Must Ensure Outstanding Equipment Goes to the Warfighter