

PM Light Tactical Vehicles



MISSION

The lifecycle management of light battlefield distribution systems enabling the Modular, Joint and Expeditionary Ground Forces.

Distribution A: Approved for Public Release; distribution unlimited

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APMs

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 - MAJ Carlos Lago
- Trailers, FCS, HEAT, Ambulance, & AoA
 - Laurie Austin
- Integration
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Purpose: To talk about where we've been, where we are and where we are going with in the context of "Reset Rebuild and Re-buy"

Agenda

- HMMWV Evolution
- The Weight Tape
- HMMWV RECAP
- HMMWV Production
- Light Tactical Trailer Production
- Challenges



HMMWV Evolution

Block upgrades to increase payload and versatility





A0 Series (1984-93) 6.2L Diesel Engine 3 Spd Transmission 2,500 – 3,632 lb. Payload GVW: 7,700 lb.



A1 Series (1991-95) Improved Driveline Improved Suspension 2,500 – 3,632 lb. Payload GVW: 10,000 lb.



A2 Series (1994-Present) 6.5L Diesel Engine 4 Spd Electronic Trans 3,520 - 4,400 lb. Payload GVW: 10,300 lb.





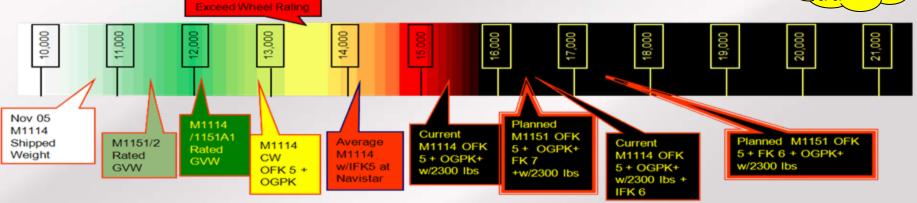


ECV = Expanded Capacity Vehicle



ECV2 (2010-?) Improved 6.5L Turbo Diesel Eng New Trans Improved Suspension/Frame Increased/Improved Armor Capability 1,800 – 4,550 lb. Payload * GVW: ~18,000 lb

Final chance to buy-back 3Ps!



* ECV2 payload definition changed to exclude BII and two soldiers

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HMMWV RECAP

- Program Intent: Extend useful life of fleet at fraction of new production cost
- Current Program (Since FY04) Convert early models to M1097R1 and M1025R1 models respectively providing:
 - Models Eligible: M998/A1, M1025/A1, M1026/A1, M1037, M1038/A1, M1097/A1
 - more payload capacity (drivetrain and suspension upgrades)
 - extending economic useful life for 15 years
- Up-armored HMMWVs (UAH) RECAP Pilot Program Convert UAHs to current production configuration models with enhanced reliability components

Executed at

- Red River Army Depot 16,745 complete to date
- Letterkenny Army Depot 14,058 complete to date
- Maine Military Authority 1210 complete to date
- Vehicle Hand-Offs Completed Total: 30,683
- Conduct UAH pilot at RRAD and LEAD 2QFY09
- Program funded until July 09





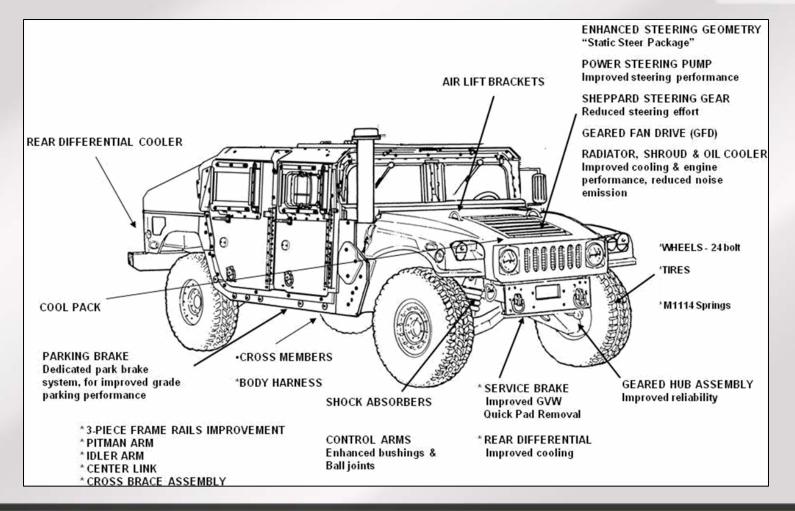


- Fielding to CONUS after SWA Requirement filled: ~14,000 fielded to date (CONUS)
- Production rate: 80/day average
- Introduction model: M1167 (TOW Variant)
- Reliability & Safety Enhancements, to include: Armor coverage, Load range E wheel/tire assembly, Electrical upgrades, Lightweight doors, Suspension upgrades, LED lights, Mending Plate improvements, Fire Suppression System upgrades......





Reliability Enhancements Vehicle (REV)



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ECV2 – Rebalancing the 3P's



Electrical

New Power Management System (Solid State) New J1939 Multiplex Gauges Electronic Accelerator Pedal New Instrument Panel Embedded Diagnostics Under Hood Batteries 12V Dual Power Points Electronic High Idle New Head Lights

LED Lighting Allison TCM New ECM Body & Cab Compatible with Current HMMWV Systems Increased Cab Space (14+ Cu Ft) Integral Armor (Armor Ready) Armor Kit FSS

* P3I Item

Options Electric Winch (18,000 lb) Deep Water Fording New HVAC System Stability Control* CTIS

Chassis ABS/ATC New Suspension 18,000 lbs GVW Higher Capacity Drive Train Improved Services Brakes (4 Piston Caliper) New Tire/Wheel Assembly (22.5" Rim / 40" Tire) New Frame (3 pc – pending patent application) Welded Powertrain New Exhaust Charge Air Cooler High Capacity T-case RER Quick Disconnects New Air Induction System New Transmission (Allison) GEP Optimizer 6500 Turbo Engine High Capacity Power Steering Pump New Engine Cooling System (Vertical Mount)

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Light Tactical Trailer Production

- Over 15,000 LTTs fielded to date
- New production contracts awarded in Aug 08 (2 Contractors)
- Production rate: 1600/month max
- Re-buying to fill requirements









LTV Challenges Global War on Terrorism Support

- Frag Kit #6
- Frag Kit #7

Fire Suppression System Upgrades





LTV Challenges Supplier Quality

Communication, Communication, Communication

- Every Part: IMPORTANT
- Requirements
 - Question requirements that may not make sense
 - Do NOT deviate A Soldier's mission or life may depend on it

Goal - Improve Supplier Quality

- Participated in AM General Supplier Symposium Jul 08
- Participate with AM General in high risk-supplier visits
- Conduct periodic meetings with contractor/DCMA
- Assigned Gov't QA Specialist to focus on OEM's supplier quality assurance
- Using lessons-learned from supplier issues to focus Gov't and OEM efforts

Example: Welding Issues

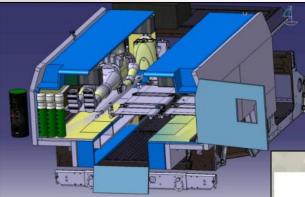
- Conducting increase weld audits; Result: Major rewrite of procedure
- Conducted Gov't in-house basic welding class

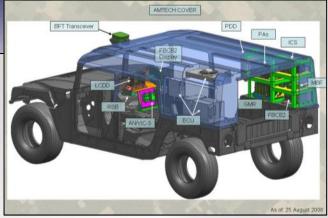


LTV Challenges (continued)

Other Challenges

- Armored Ambulance
- FCS Spin Out 1
- Configuration Management









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