

FMTV A1

Capability, Reliability, Maintainability, Deployability

SPECIFICATIONS

ENGINE

ENGINE TYPE

- Caterpillar heavy-duty diesel, 6-cylinder electronic fuel-injected turbocharged & aftercooled, EPA certified
- 442 cu. in. (7.2L)

HORSEPOWER (@ 2,400 RPM)

- 2.5 Ton LMTV 275 HP (205 kW)
- 5.0 Ton MTV 330 HP (246 kW)

TORQUE (@ 1,600 RPM)

- 2.5 Ton LMTV 817 lb-ft (1,107 N.m)
- 5.0 Ton MTV 851 lb-ft (1,153 N.m)

GOVERNOR TYPE

- Auto/Electrical Displacement

BORE & STROKE

- 4.33 X 5.00 in. (110 X 127mm)

FUEL

- Diesel, DF-2, JP-4, JP-8, VV-F-800, 58 gal. nominal

OIL

- MIL-L-2104D, MIL-L-46167, 22 qt. (21L)

ELECTRICAL

- Alternator engine-driven, 12/24 volt, waterproof EMI/RFI suppressed with 100 amp standard rating (200 amp option)
- 24 volt waterproof starter
- SAE J1708 & J1939 communications data buses
- HAEMP hardened

EXHAUST RETARDER

- Enhanced mountain brake performance
- Improved Arctic warm-up characteristics

TRANSMISSION

TRANSMISSION TYPE

- Allison MD 3070 PT, Automatic/select 7-speed, electronically controlled
- Full-time all-wheel drive with integral transfer case

TORQUE SPLIT

- Normal operations, 30% front, 70% rear
- Off-road, equal front and rear

OIL

- MIL-L-2104D, MIL-L-46167, 31.8 qt. (30L)

STEERING

- Power assisted, recirculating ball

SUSPENSION FRONT

- Parabolic-tapered leaf spring with hydraulic shock absorbers

SUSPENSION REAR

- 2.5 Ton LMTV parabolic-tapered leaf spring with hydraulic shock absorbers and stabilizer bar
- 5.0 Ton MTV tandem axles with parabolic-tapered leaf spring with hydraulic shock absorbers and stabilizer bar

TRANSPORTABILITY / DEPLOYABILITY

- Air transportable internally by C-130, C-141, C-17 and C-5A at GVW
- Externally transportable by CH-47 and CH-53 helicopters

TIRES

- 395/85R20XML All-terrain

TIRE INFLATION SYSTEM

- Central Tire Inflation System (CTIS) with cab-mounted electronic controls, operable while driving
- Highway, cross-country, air transport, sand/mud/snow and emergency modes

AXLES

- ArvinMeritor front, intermediate & rear axles
- Single reduction, amboid-gearing carrier
- Bevel wheel end reduction ratio, 2:1
- Overall gear ratio, 7.8:1
- Front axle steering angle, 35°

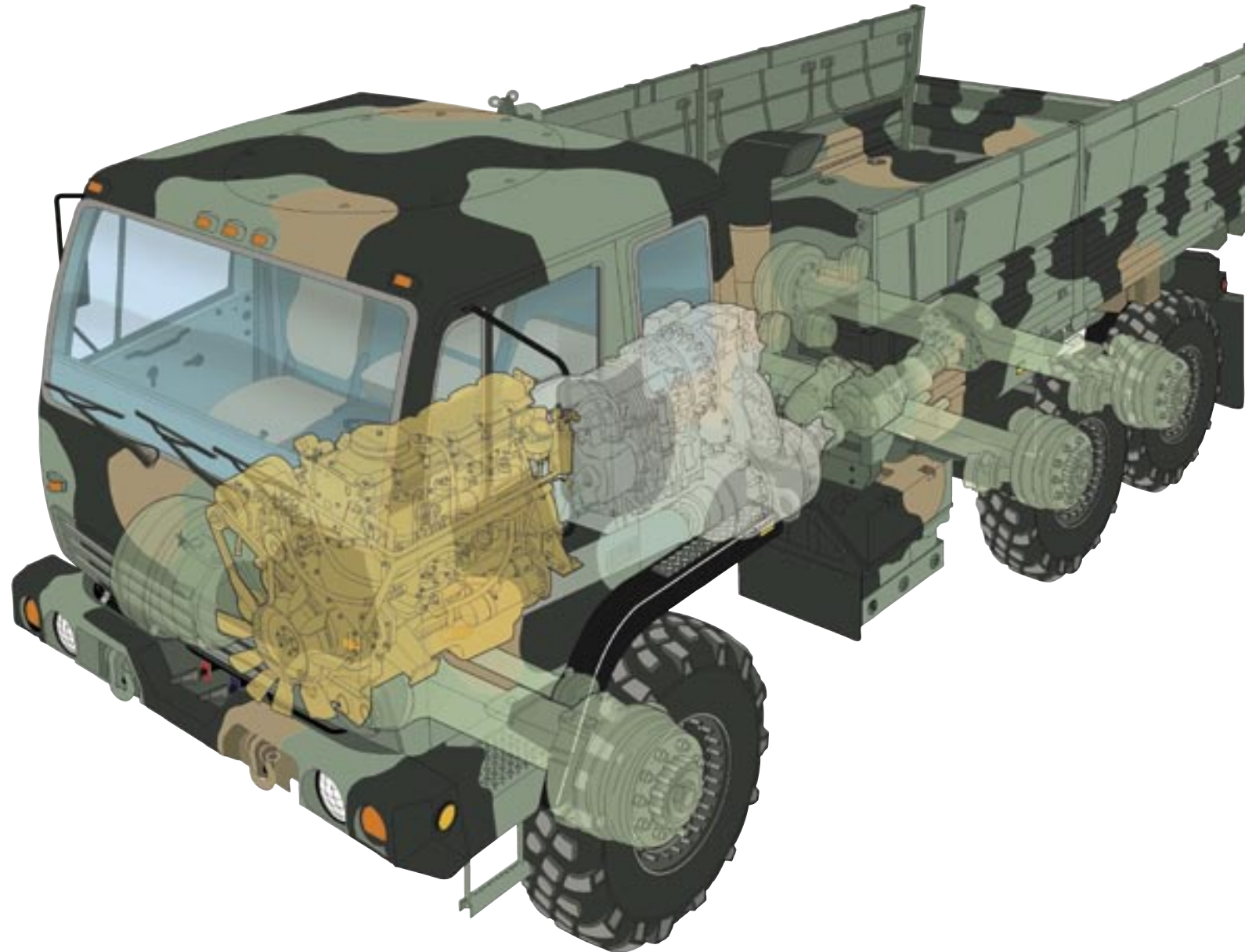
BRAKES

- Dual-circuit four channel air Anti-lock Braking System (ABS) with trailer ABS connectors for emergency towing

DIAGNOSTICS

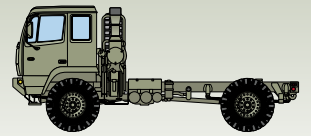
INTERACTIVE ELECTRONIC TECHNICAL MANUALS (IETM)

- FMTV A1 Class V IETM
- Intrusive diagnostics
- Diagnose all (4) unique Electronic Control Modules (ECM)
- Superior graphic clarity
- Integrated parts database



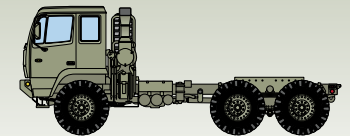
STANDARD 2.5 TON & 5.0 TON CHASSIS

2.5 TON



2.5 Ton, Chassis		
Curb Weight	13,274 lb	6,021 kg
Length	252 in	6,394 mm
Width	96 in	2,440 mm
Height Oper.	112 in	2,845 mm
Air Trans.	105.5 in	2,680 mm
Wheelbase	153.5 in	3,900 mm
Range (Min. at GVW)	400+ mi	645+ km
Approach Angle	40°	
Departure Angle	40°	
Payload	Consult Factory	
Towed Load	12,000 lb	5,443 kg
Model No.	M1080A1	

5.0 TON



5.0 Ton, Chassis		
Curb Weight	16,791 lb	7,616 kg
Length	273 in	6,928 mm
Width	96 in	2,440 mm
Height Oper.	112 in	2,845 mm
Air Trans.	105.5 in	2,680 mm
Wheelbase	161 in	4,100 mm
Range (Min. at GVW)	300+ mi	483+ km
Approach Angle	40°	
Departure Angle	60°	
Payload	Consult Factory	
Towed Load	21,000 lb	9,526 kg
Model No.	M1092A1	

COMMON PARTS AND SYSTEMS SHARED BY THE 2.5/5.0 TON FLEET

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|--------------------------|-------------------------------------|
| • Engine Assembly | • Starter |
| • Alternator | • Fan & Fan Clutch |
| • Intake System | • Exhaust System |
| • Cooling System | • Fuel System |
| • Air Compressor | • CTIS Components |
| • Transmission | • Front Axle |
| • Front Suspension | • Steering System |
| • Vehicle Control Gauges | • Tires & Wheels |
| • Spare Tire | • Hoist Assembly |
| • Cab Assembly | • Self-Recovery Winch (optional) |
| • Air Tanks | • Battery Box – 2.5 Ton (11,000 lb) |
| • Battery Box | • Air Dryer – 5.0 Ton (15,500 lb) |

This is a partial list of components to all FMTV truck variants.