



## APPENDIX B

### SPECIFICATION INFORMATION Patrol and Passenger Vehicles, Trucks, Vans, Cab & Chassis



**THESE SPECIFICATIONS APPLY TO ANY CONTRACTS  
RESULTING FROM RFP#071I0200131 AND WILL BE  
REFERRED TO IN QUARTERLY BID CYCLES BEGINNING  
2011 MODEL YEAR. THESE SPECIFICATIONS ARE  
APPLICABLE TO MODEL YEARS 2011- 2016 UNLESS  
OTHERWISE SPECIFIED.**

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**GENERAL SPECIFICATIONS**

**FOR**

- **PATROL AND PASSENGER VEHICLES**
- **TRUCKS**
- **VANS**
- **CABS & CHASSIS**

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**GENERAL SPECIFICATIONS**

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[Pre-Delivery Service](#)..... p. 13

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Patrol vehicle equipment options are contained within each specification contained in this document.

All vehicles must be new and of the manufacturer's current models in production at the time of delivery. All standard or optional equipment to be included shall be as advertised by the manufacturer (OEM) and factory installed and shall not consist of substitute or after market equipment. Special Edition Pricing Packages which may limit available options are not acceptable. Optional equipment not available from the factory may be dealer installed.

**The dealer’s vehicle order confirmation sheet, which includes all of the standard options provided with the vehicle in accordance with the State of Michigan Specification, shall be provided at each of these steps in the process:**

- With dealers quarterly bid submittal to the State of Michigan**
- With original quote from the dealer to the customer**
- Upon delivery of the vehicle from the dealer to the customer**
- Customer shall use as a check list when accepting the vehicle to verify all ordered options are included on the vehicle**

The dealer shall indicate on the TOP of the order confirmation sheet:

- The State specification number that applies
- MDOT or MiDEAL specification

**Diesel Vehicles are indicated with a “D” at the end of the specification number.**  
**Alternative Fuel vehicles are indicated with a “A” at the end of the specification number.**

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DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
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**PASSENGER VEHICLE EQUIPMENT**

The items listed below are to be supplied on all vehicles, even though they may be optional with the manufacturer. They have also been included in the individual specifications and are to be furnished on all vehicles:

See individual specifications for MDOT specific options.

Air Conditioning.

Battery-Maximum CCA available.

Color-Manufacturers Standard Color to be selected.

Defroster-Electric, rear window.

Floor Mats-Mfg. Std. , front and rear, color coordinated.

Keys-(2) sets with code numbers; shall be with vehicle at time of delivery.

Lights, Daytime Running (If available from manufacturer as standard equipment)

Moldings-Body side; if not independently available, but available only as a portion of a package, they may be dealer installed using "original equipment" as available from the manufacturer.

Pre-delivery inspection and servicing.

Radio-AM/FM mfg. standard, factory installed.

Speed Control, factory installed

Steering-Power, Tilt Wheel.

Transmission-Automatic

Upholstery, Seats - Cloth or Cloth and Vinyl.

**ALL VEHICLES MUST BE EQUIPPED IN COMPLIANCE WITH ALL APPLICABLE  
FEDERAL MOTOR VEHICLE SAFETY STANDARDS AND REGULATIONS.**

Note: No dealer advertising decals are to be on vehicle

**Delete: On GM vehicles, OnStar and XM radio are deleted.**

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DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**TRUCK EQUIPMENT**

The items listed below are to be supplied on all trucks, even though they may be optional with the manufacturer. They have also been included in the individual specifications and are to be furnished on all vehicles:

See individual specifications for MDOT specific options.

12 Volt auxiliary outlet

Air Conditioning - All trucks.

Color-Manufacturers Standard to be selected.

Coolant System-Maximum Size Available, including the Heaviest Duty Radiator

Fuel Tanks, Diesel, with sending unit and magnetic drain plug, on all trucks over 21,000 G.V.W.R., painted Black and labeled "Diesel Fuel Only".

Hub caps on all pickups and vans up to and including 10,000 G.V.W.R. If not available from dealer cap nuts shall be furnished.

Keys-(2) sets with code numbers; shall be with vehicle at time of delivery. (Three sets for MDOT)

Mirrors All trucks are to be equipped with R.H. and L.H. outside rearview mirrors to comply with Michigan laws; all trucks up to and including 15,000 G.V.W.R. shall be equipped with inside rearview mirror. In all cases, outside R.H. & L.H. rear view mirrors shall be 34 sq.in. minimum, swing away type and provide full vision past all body installations. Mirrors shall be of stainless steel or high impact plastic construction unless denoted otherwise in individual truck specifications. All West Coast Type or Below Eye Level Camper Style Mirrors shall have stainless steel or high impact plastic heads, brackets, and hardware.

Paint codes-factory paint codes shall be furnished with all vehicles; for all after market painting both the brand and paint code shall be furnished.

Pre-delivery inspection and servicing.

Radio - AM/FM Manufacturers Standard, Factory Installed

Seats-Split Bench type, unless otherwise specified

Shock absorbers-(Heaviest Duty Available), front all trucks. Rear, up to and including 15,000 G.V.W.R.

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Spare tire, or Rim, not to be furnished unless specified. If specified, tires to be of same mfg., tread design to be same as front tires.

Speed Control, Factory Installed

Steering-Power, Tilt Wheel

Transmission-Automatic.

Jack-Furnish on trucks up to and including 12,000 G.V.W.R.

All items removed for installation of optional equipment shall be returned to the State of Michigan.

TO BE EQUIPPED IN COMPLIANCE WITH ALL APPLICABLE FEDERAL MOTOR VEHICLE SAFETY STANDARDS AND REGULATIONS. ALL VEHICLES MUST BE EQUIPPED TO COMPLY WITH ALL REQUIREMENTS OF THE MICHIGAN MOTOR VEHICLE CODE.

**Delete: On GM vehicles, OnStar and XM radio are deleted.**

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**PRE-DELIVERY SERVICE**

The term "Pre-Delivery Service and Inspection" as used in State of Michigan Specifications includes the following:

1. General appearance of body both interior and exterior for completeness and quality of workmanship.
2. Lubrication and fluid levels and correcting any leaks:
  - a. Radiator
  - b. Windshield Washer
  - c. Battery
  - d. Power steering pump
  - e. Brake master cylinder
  - f. Engine oil
  - g. Transmission fluid level.
3. Mechanical operation of vehicle:
  - a. Steering gear and linkage
  - b. Suspension assembly, front and rear
  - c. Proper tire pressure to normal rated road requirements
  - d. Hood latch
  - e. Head lights, aim and adjust
  - f. Front wheel toe in and torque wheel nuts
  - g. Seat and shoulder belts operative
  - h. All locks and latches to be operative
  - i. Windshield wiper and washer to be operative
  - j. Proper adjustment to all drive belts
4. A check of all electrical operations to include: headlights, side marker lights, temperature, alternator, oil pressure lights, parking lights, stop and tail lights, directional signals, emergency flasher and parking brake lights.

**5. Miscellaneous items to be furnished:**

**a. Manufacturers Window**

**Sticker shall not be removed from vehicle**

**b. Odometer Certification,  
,vehicle window sticker or line setting ticket, and Vehicle Curb Weight at time of delivery**

**c. Manufacturers or Dealers**

**Pre-Delivery Check Sheet**

**d. Vehicle shall have a Minimum of (4) Gallons of Fuel in tank when delivered**

**e. Warranty Plate and**

**Operators Manual(s) shall be delivered with vehicle at no cost to the State of Michigan.**

**f. Completed RD108 application for title form**

**STATE OF MICHIGAN  
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PURCHASING OPERATIONS**

**PRE-DELIVERY SERVICE** (Continued)

g. Invoice for each vehicle at the time of delivery.

Sheet

**h. Vehicle Order Confirmation**

6. Deliveries shall be between the hours of 8 AM and 3 PM. No Weekend or Holiday Deliveries will be accepted. Forty-eight (48) hour notice required prior to delivery.

It is intended that vehicles delivered in accordance with the Michigan specifications will be complete, including mechanical details, general workmanship and appearance, and shall be delivered complete with all warranty service books and identification plate.

**Failure to adhere to specifications may be reason to delay payment.**

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**RECEIVING PROCEDURE**

It is important that all State agencies and departments carefully inspect all vehicles prior to signing the Freight Bill. If any vehicle is received in a damaged condition of component parts or accessories are missing, a notation of the discrepancy(ies) is to be made on the Freight Bill and then be signed by the driver who delivered the vehicles. A Complaint to Vendor Form should be initiated and sent to the vendor at once noting discrepancies. Failure to note obvious deficiencies at time of delivery on the Freight Bill may place the burden of repair on the receiving agency.

It is recommended that the following items be checked prior to signing the Freight Bill:

1. Visually inspect exterior of vehicle for paint, body, tire, tail light, antenna, outside rear view mirror and molding damage.
2. Visually inspect under hood for the following items:
  - a. Air cleaner
  - b. Battery and caps
  - c. Radiator cap
  - d. Windshield washer container.
3. Check for cracked or broken windows.
4. Check trunk compartment for the following:
  - a. Spare tire and wheel
  - b. Jack
  - c. Wheel wrench
  - d. Four hub caps
  - e. Trunk mat.
5. Check interior of vehicle for the following items:
  - a. Owner's manual and warranty material
  - b. Cigarette lighter
  - c. Two sets of keys (Three sets for MDOT)
  - d. Make sure all seat belts are installed
  - e. Sun visors
  - f. Upholstery damage or excessive soil.

It is the responsibility of the agency to check for any other items that could possibly have been missing in accordance with the purchase order, specification data and the dealer's vehicle order confirmation sheet.

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PURCHASING OPERATIONS**

**SPECIFICATIONS FOR SUBCLASSES**

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**ADDITIONAL SPECIFICATIONS FOR SUBCLASSES**

**PASSENGER VEHICLES**

**3905-0001 PASSENGER VEHICLES: 4-DOOR SEDAN, SUBCOMPACT (Front Wheel Drive), Automatic Transmission**

MODEL-2011 CURRENT NEW

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and shall be included on all MDOT passenger vehicles.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.

Locks; power with remote

Traction Control

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3905-0001B PASSENGER VEHICLES: 5-DOOR HATCHBACK, SUBCOMPACT  
(Front Wheel Drive), Automatic Transmission**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and shall be included on all MDOT passenger vehicles.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.

Locks; power with remote

Traction Control

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3905-0002 PASSENGER VEHICLES: 4-DOOR SEDAN, SMALL-SIZE (Front Wheel Drive), Automatic Transmission**

MODEL-2011 CURRENT NEW

TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and shall be included on all MDOT passenger vehicles.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.

Locks; power with remote

Traction Control

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3905-0002B PASSENGER VEHICLES: 5-DOOR HATCHBACK, SMALL-SIZE (Front Wheel Drive), Automatic Transmission**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and shall be included on all MDOT passenger vehicles.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.

Locks; power with remote

Traction Control

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3905-0003 PASSENGER VEHICLES: LARGE-SIZE (Front Wheel Drive) 4-Door  
Sedan -(Automatic Transmission)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included all MDOT passenger vehicles.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.

Locks; power with remote

Traction Control

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3905-0003A PASSENGER VEHICLES: LARGE-SIZE, ALTERNATIVE FUEL (Front Wheel Drive), 4-Door Sedan -(Automatic Transmission)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on all MDOT passenger vehicles.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.

Locks; power with remote

Traction Control

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3905-0004 PASSENGER VEHICLES: MID-SIZE (Front Wheel Drive) 4-Door Sedan  
-(Automatic Transmission)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on all MDOT passenger vehicles.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.

Locks; power with remote

Seats-Bucket type, front

Traction Control

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3905-0005 PASSENGER VEHICLES: LARGE- ADMINISTRATOR SERIES 4-Door  
Sedan - (Automatic Transmission)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on all MDOT passenger vehicles.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.

Locks; power with remote

Traction Control

**STATE OF MICHIGAN  
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PURCHASING OPERATIONS**

**HYBRID VEHICLES**

**3905-0006H-P01 HYBRID VEHICLES: PASSENGER, MID-SIZE (Front Wheel Drive)  
4-Door Sedan -(Automatic Transmission)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on all MDOT passenger vehicles.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.

Locks; power with remote

Seats-Bucket type, front

Traction Control

**STATE OF MICHIGAN  
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PURCHASING OPERATIONS**

**3905-0006H-P02    HYBRID VEHICLES: PASSENGER, FULL-SIZE (Front Wheel Drive), 4-Door Sedan -(Automatic Transmission)**

MODEL-2013 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer (refer to page A).

**ADDITIONAL MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on all MDOT passenger vehicles.

- Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.
- Locks; power with remote
- Seats-Bucket type, front
- Traction Control

**STATE OF MICHIGAN  
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PURCHASING OPERATIONS**

**3905-0007H-U01    HYBRID VEHICLES: MUTLI-FUNCTIONAL UTILITY VEHICLE  
(2-WHEEL DRIVE), 5 Passenger, 4 Door, Automatic Transmission**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on all MDOT passenger vehicles.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.

Locks; power with remote

Traction Control

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PURCHASING OPERATIONS**

**3905-0007H-U02    HYBRID VEHICLES: MUTLI-FUNCTIONAL UTILITY VEHICLE  
(4-WHEEL DRIVE), 5 Passenger, 4 Door, Automatic Transmission**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on all MDOT passenger vehicles.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.

Locks; power with remote

Traction Control

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PURCHASING OPERATIONS**

**3905-0007H-U15 HYBRID VEHICLES: UTILITY, 4-DOOR, 5-6 PASSENGER, FULL  
SIZE (2-WHEEL DRIVE) (Payload-1,500 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.

Battery-12 Volt, 600 CCA min.

Bumper-Rear, Mfg. Std.

Fuel capacity-largest available from mfg.

Seats-Full bench front, & full width seat facing forward back of the front seat.

Spare tire and wheel. Full size. Mfg. Std. mounting.

Wrench-wheel.

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DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
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**3905-0007H-U16 HYBRID VEHICLES: UTILITY, 4-DOOR, 5-6 PASSENGER, FULL  
SIZE (4-WHEEL DRIVE) (Payload-1,500 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.

Battery-12 Volt, 600 CCA min.

Bumper-Rear, Mfg. Std.

Fuel capacity-largest available from mfg.

Seats-Full bench front, & full width seat facing forward back of the front seat.

Spare tire and wheel. Full size. Mfg. Std. mounting.

Wrench-wheel.

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PURCHASING OPERATIONS**

**3905-0011-CAVEA    HYBRID VEHICLES: Cut-Away Van, Parallel Hybrid Electric Drive, 158" Wheelbase, 14,000 lbs. min GVWR**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as "STANDARD FACTORY EQUIPPED" and are to be included on this vehicle.

Fuel capacity-largest available from mfg.

3 Phase AC Traction Motor (Electric) and 5.4L FFV-V-8 Engine (Gas/E-85)

Lithium-Ion Battery

158" Wheelbase

100" Cab to Axle

Seats-Front bucket seats – option to delete passenger seat

Spare tire and wheel. Full size. Mfg. Std. mounting.

Wrench-wheel.

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DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
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**3905-0011-CAVEB HYBRID VEHICLES: Cut-Away Van, Parallel Hybrid Electric Drive, 176" Wheelbase, 14,000 lbs. min GVWR**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as "STANDARD FACTORY EQUIPPED" and are to be included on this vehicle.

Fuel capacity-largest available from mfg.

3 Phase AC Traction Motor (Electric) and 5.4L FFV-V-8 Engine (Gas/E-85)

Lithium-Ion Battery

176" Wheelbase

118" Cab to Axle

Seats-Front bucket seats – option to delete passenger seat

Spare tire and wheel. Full size. Mfg. Std. mounting.

Wrench-wheel.

PLEASE NOTE: This option is not available in combination with the shuttle bus body. Also, speed control is not available for this option.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3905-0008H-T01    HYBRID VEHICLES: LIGHT DUTY PICK-UP TRUCK, CREW CAB  
(2-WHEEL DRIVE) (6' Box) (GVWR-7,000 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.

Battery-12 Volt, 540 CCA, minimum.

Bumper- Mfg. std.

Fuel capacity-largest available from mfg.

Seats, cloth

Spare tire and wheel. Full size. Mfg. Std. mounting.

Wrench-wheel.

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PURCHASING OPERATIONS**

**3905-0008H-T02 HYBRID VEHICLES: LIGHT DUTY PICK-UP TRUCK, CREW CAB  
(4-WHEEL DRIVE) (6' Box) (GVWR-7,000 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.  
Battery-12 Volt, 540 CCA, minimum.  
Bumper- Mfg. std.  
Fuel capacity-largest available from mfg.  
Seats, cloth  
Spare tire and wheel. Full size. Mfg. Std. mounting.  
Wrench-wheel.

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DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3905-0008H-T50D - HYBRID VEHICLES: HEAVY DUTY TRUCK, CAB AND  
CHASSIS, DIESEL (G.V.W.R. 23,500 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission: 5/6-speed

Allison w/ PTO Auto. 2000/2400/2200RDS

Ratio for minimum loaded road speed of approx. 68 mph.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

- Alternator-120 amp. min., Reference 22SI or approved equal
- Battery Carrier: HEV, Power Electronics Carrier (Eaton) w/Hybrid, mounted under cab. Includes Cooling System, LSM behind PEC.
- Transmission/Drive Unit: Eaton-Fuller Hybrid EH-8E406A-CD 6-speed Automated Manual Transmission w/Electronic Shift Controls, Without ePTO capability. Eaton-Fuller AutoClutch DM1401, 700ft.lb torque capacity

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

- Alternator: 120A min capacity, pad mounted
- Transmission/Drive Unit: Eaton-Fuller Hybrid EH-8E406A-UP 6-speed Automated Manual Transmission w/Electronic Shift Controls, With ePTO capability. Eaton-Fuller AutoClutch DM1401, 700ft.lb torque capacity
- Battery Carrier: HEV, Power Electronics Carrier (Eaton) w/Hybrid, mounted under cab. Includes Cooling System, LSM behind PEC.
- Body Integration, Remote Power Module: Mounted under cab or on battery box; up to six-(6) outputs and inputs, 20A per channel- includes one-(1) switch pack w/latched switches.
- All other specs per MDOT requirements.

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PURCHASING OPERATIONS**

**3905-0012-CBPEA HYBRID VEHICLES: Stripped Chassis, Parallel Hybrid Electric Drive, 158" wheelbase, 14,000 lbs min GVWR**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as "STANDARD FACTORY EQUIPPED" and are to be included on this vehicle.

- 3 Phase AC Traction Motor (Electric) and 5.4L FFV V-8 Engine (Gas/E85)
- 158" Wheelbase
- Lithium-Ion Battery

Fuel capacity-largest available from mfg.

Spare tire and wheel. Full size. Mfg. Std. mounting.

Wrench-wheel.

PLEASE NOTE: Speed Control is not available for this option.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3905-0012-CBPEB    HYBRID VEHICLES: Stripped Chassis, Parallel Hybrid Electric Drive, 176" Wheelbase, 14,000 lbs min GVWR**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as "STANDARD FACTORY EQUIPPED" and are to be included on this vehicle.

- 3 Phase AC Traction Motor (Electric) and 5.4L FFV V-8 Engine (Gas/E85)
- 176" Wheelbase
- Lithium-Ion Battery

Fuel capacity-largest available from mfg.

Spare tire and wheel. Full size. Mfg. Std. mounting.

Wrench-wheel.

PLEASE NOTE: Speed Control is not available for this option.

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PURCHASING OPERATIONS**

**3905-0009H-CVE ELECTRIC VEHICLES: Compact Van, 5000 lbs min GVWR, Front Wheel Drive, Electric**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery capacity-largest available from mfg.

55-80 miles before needing recharge

**3 Phase AC Traction Motor**

**Lithium-Ion** Battery

Seats-Front bucket seats, no second row

Wrench-wheel.

Rear door with glass window

Sliding door with no glass – option to include glass

Rear door with glass

Rear door – 255 degree opening

Run-flat kit

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**PATROL VEHICLES**

**3905-0009A POLICE CAR, 4-Door Sedan, Front Wheel Drive, Construction- Monocoque (Unitized) type, Large**  
(120+ cubic feet volume)

**MAKE**

*Chevrolet Impala - E85 Capable*

**BID REQUIREMENTS**

Prior to bidding, a car dealer, manufacturer, or representative will be required to furnish a “police package” vehicle for test purposes. All test vehicles shall be **2011** models, which are equipped with the drive train, suspension, and brake components, as well as tires and interior appointments and instrumentation as called for in the specification requirements on all vehicles in this requisition. Submitters of vehicles shall declare in writing any deviations from the specifications at the time of delivery of these test vehicles. Interior and exterior colors shall be the manufacturer’s option. One extra set of engine belts and four (4) wheels and tires shall be provided on test day for each car submitted. Test vehicles submitted shall have undergone sufficient break-in to permit extended periods of maximum acceleration and high speed driving. Brakes on the test car shall have been burnished prior to delivery.

**Test cars shall be delivered to the Vehicle and Travel Services,  
State Secondary Complex, (517) 322-5000  
6951 Crowner Drive, Lansing, Michigan, 48913  
no later than 4 p.m., Tuesday, September 7, 2010.**

Each vehicle will be subjected to six competitive and qualification tests. Any vehicle which fails to meet the minimum standards found under the Qualification Testing section of this specification will not be considered for this bid.

The State of Michigan shall not be responsible for any damage during the tests or the condition of the vehicle when returned to the submitter after testing. Furthermore, all cars tested will be at the owner’s risk for any damage occurring to the vehicles for any reason. The test vehicles will be tested and driven under the supervision of the Michigan Department of State Police by employees of the department or personnel designated by the department.

Vehicles used for testing will be available for pick up by the submitter no later than one (1) month following completion of testing.

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**SPECIFICATION**

**MODEL**

**2011 CURRENT NEW - STANDARD FACTORY EQUIPPED:**

Vehicles to be factory equipped with the following items, unless dealer installation is herein permitted.

**AIR BAGS**

Vehicle to be equipped with driver frontal-impact airbag, passenger frontal impact air bag, side-impact curtain roof rail airbags, and thoracic seat airbags.

**AIR CONDITIONING**

System must be designed to prevent component damage due to high speed driving.

**ALTERNATOR**

Transistorized regulator, minimum curb idle output of 110 amps at 221 degrees Fahrenheit, (at manufacturer's recommended idle speed). Shall be of heavy-duty design, capable of surviving patrol car operation. Maximum output shall be at least 130 amps at 221 degrees Fahrenheit. Output ratings are for typical summer underhood ambient temperatures measured at 221 degrees Fahrenheit and not S.A.E rating method.

**ANTENNA**

Vehicle to be equipped with standard AM/FM original equipment antenna embedded in glass. Mast type antenna not acceptable.

**ANTIFREEZE**

To be equipped with antifreeze protection to -35 degrees F minimum.

**BATTERY**

12 volt, minimum 720 cold cranking amps.

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**BODY SIDE MOLDING**

Vehicle to be equipped with body side molding. Molding on front doors to be deleted, preferred. No holes to be on doors for moldings.

**BRAKES**

Vehicle to be equipped with power assisted, four wheel disc anti-lock brake system.

**POWER PORT PREFERRED**

To be located on instrument panel, wired independent of ignition system.

**COOLING SYSTEM**

Vehicle to have maximum size cooling system available, incorporating "coolant recovery" system.

**DIFFERENTIAL**

Heavy duty, final drive assembly.

**ENGINE**

Engine to be the largest cubic inch/liter displacement available in the model of the vehicle submitted, with specific displacement to the manufacturer's option, providing the car will meet or exceed the vehicle performance requirements in the Qualification Testing section of this specification.

**FUEL SYSTEM**

Fuel system shall be gasoline and/or E85 capable. System shall be able to operate at various percentages of the two fuel mixtures.

**FLOOR MAT**

Full floor mat, heavy-duty rubber or vinyl, front and rear.

**GLASS**

All windows shall be heat absorbing (tinted) type.

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**HEADLIGHTS**

To be equipped with high and low beam quartz-halogen headlights. If vehicle is equipped with Daylight Running Lights, it must incorporate a means (switch system) to make the lights inoperable at drivers' discretion.

**HOOD LATCH RELEASE**

To be equipped with inside hood latch release.

**KEYS**

Vehicle to be equipped with eight (8) remote entry key fobs. Three (3) keys to be furnished with each car. Third key may be dealer supplied on original equipment blank only. Other key blanks may be generic copies.

**LICENSE PLATE BRACKETS**

Vehicle shall be equipped with manufacturer supplied front and rear license plate brackets. Dealer may install.

**LIGHTS, INTERIOR**

Dome light to be mounted on headliner on longitudinal centerline of vehicle approximately 25" from windshield garnish molding. Operation to be independent of other lights. Vehicle to be equipped with two, separately switched, map lights, to direct a restricted beam of light to the driver and/or the front seat passenger. Exact mounting position to be approved by the Michigan State Police. No interior light to be illuminated by open doors.

**LIGHT, ENGINE & TRUNK COMPARTMENT**

To be equipped with an engine and trunk compartment light controlled by body computer or ball bearing switch.

**LOCKS**

To be equipped with power door locks. All locks on a car to be keyed alike, different key for each car.

**MIRRORS, REARVIEW (INSIDE)**

Day/night type.

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**MIRRORS, SIDEVIEW (OUTSIDE)**

Remote control type, installed on left-hand and right-hand doors. Controls to be within convenient reach of driver. Rectangular design approximate size 5" x 3"; minimum viewing area of 15 square inches.

**PAINT COLOR**

To be same color as Dulux 93-032. Paint color code to be indicated on production code plate.

**PILOT INSPECTION**

On any order of 15 vehicles or more and prior to initial delivery of police vehicles, the manufacturer shall schedule a pilot model inspection in order to determine compliance with the specifications. The inspection shall be conducted at each point of vehicle assembly. The manufacturer will be responsible for all travel costs incurred for the pilot inspection.

**PREDELIVERY SERVICE**

Vehicles to undergo predelivery service as provided in the State of Michigan Specification Book. May be completed by dealer.

**RADIO**

Radio to be standard equipment model.

**RADIO NOISE SUPPRESSION**

Vehicle to be equipped with standard AM and police radio noise suppression package, to include any optional grounding straps. The vehicle shall not interfere with signals received or transmitted by the mobile police radio system, nor shall the vehicle be affected by the operation of a police mobile transmitter.

**RADIO SPEAKER(S)**

A permanent magnet speaker(s), either oval or round, to be mounted in the speaker opening(s) provided on the dash/door of the unit. Speaker(s) to be of a quality equal to automotive grade. Speaker leads connected to the speaker terminals, not grounded, shall extend three feet beyond the lower edge of the center of the dashboard, (dealer may install wiring extensions).

Two/Four Speaker Installation: Speakers to be located on left and right sides of the dashboard (preferred location) or positioned in the forward portion of the left and right hand front doors. Four speaker system to include two additional speakers installed on rear deck shelf. It is preferred voice coil impedance of all speakers combined shall equal 8 ohms, power handling capacity 10 watts, minimum.

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**REAR WINDOW DEFOGGER**

Electrical grid type. Control to be within convenient reach of driver, control switch to be clearly marked as to function.

**ROOF TOP REINFORCEMENT**

Preferred, install a steel plate at least 2.25 mm thick x 10" wide to the underside of top, centered on the longitudinal center line of the roof panel. Plate is to extend from the windshield header to the first top cross-member support and is to be welded at both ends. Plate to hold roof skin in its normal position, not allowing skin to deflect if pressure is applied to top surface. The purpose of the plate is to support the overhead emergency light. **(or)** Roof top membrane support within underside of top, centered on the longitudinal centerline of the roof panel. Membrane support to hold roof skin in its normal position, not allowing skin to deflect if pressure is applied to top surface. The purpose of the membrane is to support the overhead emergency light.

**SEAT ASSEMBLY, FRONT**

Bucket seat type, 45/45 or 40/40, individually adjustable. The drivers seat only to be 4-way power minimum (6 or 8 way power preferred). Both seats to have heavy-duty interior construction designed for rugged police use, comfortable foam-padded seat cushions and backs. To permit the installation of radio equipment, a minimum width of eight (8) inches is required between the bucket seats. Floor mounted shift lever with console not permitted.

**SHELF**

Mounted in trunk, a tray/shelf to secure radios and other equipment. May be dealer installed.

**SPARE TIRE**

Full size spare tire and wheel to be mounted in trunk.

**SPECIAL ENGINEERING, POLICE PACKAGE**

Vehicle to be equipped with the manufacturer's engineered Police Package, capable of emergency high speed vehicle operations.

**SPEEDOMETER**

Shall be calibrated to within  $\pm 3$  mph accuracy, 0 - 140 mph scale minimum. Analog type scale graduations to be linear and of 1 or 2 mph increments. It may be supplemented or replaced by a digital type speedometer to be in 1 mph increments.

**SPOTLIGHTS**

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Unity ABS plastic spotlight (equipped with halogen spotlamp) to be mounted on the left-hand and right-hand "A" pillar. Left and right spotlights to be wired independent of ignition, individually fused with up to 15 amp capacity. Spotlight fuses shall be readily accessible to the driver, with location in the fuse panel preferred. Spotlights shall be factory installed if offered by the vehicle manufacturer. Any non-factory installation shall be authorized by the vehicle manufacturer. Installation to be approved by Michigan State Police.

**STEERING**

Power steering, manufacturer to provide steering gear which affords maximum "firm feel" and fast return characteristics designed for high speed pursuit type driving.

**STEERING WHEEL**

Tilt type steering wheel required. Round with anti-slip surface.

**SUSPENSION SYSTEM, POLICE**

To include heavy-duty springs, front and rear, in combination with heavy-duty shock absorbers, and front and rear heavy-duty stabilizer bars.

**TECHNICAL SERVICE BULLETINS**

Manufacturer to supply four (4) copies of all Technical Service Bulletins covering vehicles purchased under this specification. May be supplied on disc if approved by Vehicle and Travel Services.

**TIRES**

Tires (including spare) preferred to be Goodyear, police pursuit radials, per State of Michigan specification 5260-S1. Speed rating to meet or exceed vehicle performance capabilities. Tire to be approved by Michigan State Police.

**TOOLS**

Wheel wrench and jack.

**TRANSMISSION**

To be 3- or 4-speed, fully automatic, heaviest duty available. Must incorporate manual or electronic low gear lockout to prevent manual shifting. Transmission selector lever shall be shortest design available, to minimize intrusion of the equipment mounting area.

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**TRIM**

Front and rear bumper valances (fascias) to be color coordinated. Color to be approved by Michigan State Police.

**TRUNK MAT**

To be full floor.

**TRUNK RELEASE, REMOTE**

To be equipped with electrically operated remote control trunk release. Control to be within convenient reach of the driver, located on the right side of the steering column (in glove box not acceptable), centerline of dash board preferred. Electric system wired independently of ignition switch (battery direct). Dealer may relocate control and/or alter factory wiring to conform with this requirement.

**UPHOLSTERY, FRONT & REAR**

Front seats to be upholstered in heavy-duty cloth or combination of heavy-duty cloth and vinyl (blue is preferred or dark charcoal color acceptable). All vinyl not- acceptable. Rear bench seat to be upholstered in all vinyl.

**WHEELS AND COVERS**

To be heavy-duty construction, designed for police use, black in color. It is preferred wheels be equipped with hubcaps. Full wheel covers acceptable.

**WINDOWS, POWER**

Side windows to be electrically powered with each door having its own window control. The driver's door to have controls for all windows. Rear door power window switches to be deactivated. Rear power windows to be operable from driver's position only.

**WINDSHIELD WIPERS/WASHERS**

Multiple speed electric, to include intermittent feature.

**WIRING, SPECIAL**

Vehicle to include a 30-amp circuit breaker equipped battery feed auxiliary wire, and 30-amp circuit breaker equipped ignition feed auxiliary wire.

**NOTE: No dealer advertising to be on vehicles.**

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**QUALIFICATION TESTING**

In order to qualify for bidding, all vehicles submitted by manufacturers must meet each of the following performance standards:

1. **ACCELERATION**

<b>0 - 60 MPH -</b>	<b>9.0 seconds or less</b>
<b>0 - 80 MPH -</b>	<b>14.9 seconds or less</b>
<b>0 -100 MPH -</b>	<b>24.6 seconds or less</b>

Each vehicle will make 4 acceleration runs, and the times for the 4 runs will be averaged.

2. **TOP SPEED**

**A speed of 110 mph must be attained within a distance of 4,838 feet and 120 mph within a distance of 8,985 feet. For purposes to be explained in the test booklet, the vehicle will, after attaining the 120 mph minimum be accelerated to the maximum speed attainable within 14 miles.**

3. **BRAKES (Thermal Capacity Brake Fade Test)**

(Minimum Universal Burnish Procedure) Prior to being transported to the test sites, all test vehicles will have the brakes burnished by MSP staff performing 10 controlled impending skid (threshold) stops from 60 mph.

**Phase 1 - Test vehicles will be required to make 2 consecutive stops from 90 mph, with a constant deceleration rate of 22 feet per second<sup>2</sup> maintained from 90 to 0 mph. Immediately following this brake heat-up procedure, the vehicle will make six (6) controlled impending skid (threshold) measured stops from 60 mph.**

**Phase 2 - After a 4-minute wait (heat soak), the entire sequence will be repeated. The exact initial velocity at the beginning of each 60 - 0 mph decelerations, and the exact distance required to make each stop will be recorded by electronic speed and distance meters.**

The twelve (12) measured stops will be used to calculate the average deceleration rate, which is the vehicle's score for this test. Evidence of brake fade and ability of the vehicle to stop in a straight line within its own lane will be evaluated. A minimum of 25.79 ft/sec<sup>2</sup> average must be attained from phases (a) and (b) of 12 controlled impending skid (threshold) stops.

**COMPETITIVE TEST CATEGORIES**

Each vehicle to be considered for the bid will be evaluated in the following weighted categories:

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<u>CATEGORY</u>	<u>CATEGORY WEIGHT</u>
Vehicle Dynamics	30 Points
Braking	25 Points
0 - 100 Acceleration	20 Points
Top-Speed	10 Points
Ergonomics/Communications	10 Points
Fuel Economy	5 Points

**SCORING METHODOLOGY**

**Raw Score:** A raw score is developed for each vehicle by testing in each of the above categories. These scores are expressed in terms of seconds, miles-per-hour, feet-per-second<sup>2</sup>, points, and miles-per-gallon.

**Deviation Factor:** The best scoring vehicle in each test category receives a “0” as its deviation factor. The decimal equivalent of the percentage by which each of the other vehicles varies from the best score in that category is that vehicle’s deviation factor.

**Weighted Category Score:** Each vehicle’s weighted category score is determined by multiplying its deviation factor (as determined above) by the category weight.

**Total Weighted Score:** The total weighted score for each vehicle is derived by adding together the six (6) weighted category scores for that vehicle.

**BID ADJUSTMENT METHODOLOGY**

**Bid Adjustment Figure:** The bid adjustment figure will be one percent (1%) of the lowest bid price received.

**Actual Dollar Adjustment:** In order to determine the actual dollar amount by which each vehicle’s bid price will be adjusted, the bid adjustment figure is multiplied by that vehicle’s total weighted score.

**Adjusted Bid Price:** The actual dollar adjustment amount arrived at for each vehicle is then added to that vehicle’s actual bid price. The resultant figure is the adjusted bid price upon which the purchasing decision will be based.

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**3905-0009B POLICE CAR: PATROL, 4-Door Sedan, Front Wheel Drive , Construction-Monocoque (Unitized) type, Large**  
(120+ cubic feet volume)

**MAKE:** Ford Police Interceptor – E85 Capable

**BID REQUIREMENTS**

Prior to bidding, a car dealer, manufacturer, or representative will be required to furnish a “police package” vehicle for test purposes. All test vehicles shall be **2012** models, which are equipped with the drive train, suspension, and brake components, as well as tires and interior appointments and instrumentation as called for in the specification requirements on all vehicles in this requisition. Submitters of vehicles shall declare in writing any deviations from the specifications at the time of delivery of these test vehicles. Interior and exterior colors shall be the manufacturer’s option. One extra set of engine belts and four (4) wheels and tires shall be provided on test day for each car submitted. Test vehicles submitted shall have undergone sufficient break-in to permit extended periods of maximum acceleration and high speed driving. Brakes on the test car shall have been burnished prior to delivery.

**Test cars shall be delivered to the Vehicle and Travel Services,  
State Secondary Complex, (517) 322-5000  
6951 Crowner Drive, Lansing, Michigan, 48913  
no later than 4 p.m., Tuesday, September 6, 2011.**

Each vehicle will be subjected to six competitive and qualification tests. Any vehicle which fails to meet the minimum standards found under the Qualification Testing section of this specification will not be considered for this bid.

The State of Michigan shall not be responsible for any damage during the tests or the condition of the vehicle when returned to the submitter after testing. Furthermore, all cars tested will be at the owner’s risk for any damage occurring to the vehicles for any reason. The test vehicles will be tested and driven under the supervision of the Michigan Department of State Police by employees of the department or personnel designated by the department.

Vehicles used for testing will be available for pick up by the submitter no later than one (1) month following completion of testing.

**SCORING AND BID ADJUSTMENT FORMULA**

The vendor’s bid for each vehicle which passes the qualification tests will be artificially adjusted, based on the scoring and bid adjustment methodologies described at the conclusion of this specification. The vehicle to be purchased will be determined by the adjusted low bid price. Purchase price will be that quoted by the vendor.

**SPECIFICATION**

**MODEL**

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**2012 CURRENT NEW - STANDARD FACTORY EQUIPPED:**

Vehicles to be factory equipped with the following items, unless dealer installation is herein permitted.

**AIR BAGS**

Vehicle to be equipped with driver frontal-impact airbag, passenger frontal impact air bag, side-impact curtain roof rail airbags, and thoracic seat airbags.

**AIR CONDITIONING**

System must be designed to prevent component damage due to high speed driving.

**ALTERNATOR**

Transistorized regulator, minimum curb idle output of 110 amps at 221 degrees Fahrenheit, (at manufacturer's recommended idle speed). Shall be of heavy-duty design, capable of surviving patrol car operation. Maximum output shall be at least 130 amps at 221 degrees Fahrenheit. Output ratings are for typical summer underhood ambient temperatures measured at 221 degrees Fahrenheit and not S.A.E rating method.

**ANTENNA**

Vehicle to be equipped with standard AM/FM original equipment antenna embedded in glass. Mast type antenna not acceptable.

**ANTIFREEZE**

To be equipped with antifreeze protection to -35 degrees F minimum.

**BATTERY**

12 volt, minimum 720 cold cranking amps.

**BODY SIDE MOLDING**

Vehicle to be equipped with body side molding. Molding on front doors to be deleted, preferred. No holes to be on doors for moldings.

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**BRAKES**

Vehicle to be equipped with power assisted, four wheel disc anti-lock brake system.

**POWER PORT(S) PREFERRED**

To be located on instrument panel, wired independent of ignition system.

**COOLING SYSTEM**

Vehicle to have maximum size cooling system available, incorporating "coolant recovery" system.

**DIFFERENTIAL**

Heavy duty, final drive assembly.

**ENGINE**

Engine to be the largest cubic inch/liter displacement available in the model of the vehicle submitted, with specific displacement to the manufacturer's option, providing the car will meet or exceed the vehicle performance requirements in the Qualification Testing section of this specification.

**FUEL SYSTEM**

Fuel system shall be gasoline and/or E85 capable. System shall be able to operate at various percentages of the two fuel mixtures.

**FLOOR MAT**

Full floor mat, heavy-duty rubber or vinyl, front and rear.

**GLASS**

All windows shall be heat absorbing (tinted) type.

**HEADLIGHTS**

To be equipped with high and low beam quartz-halogen headlights. If vehicle is equipped with Daylight Running Lights, it must incorporate a means (switch system) to make the lights inoperable at drivers' discretion.

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**HOOD LATCH RELEASE**

To be equipped with inside hood latch release.

**KEYS**

Three (3) keys to be furnished with each car. Third key may be dealer supplied on original equipment blank only. Other key blanks may be generic copies.

**LICENSE PLATE BRACKETS**

Vehicle shall be equipped with manufacturer supplied front and rear license plate brackets. Dealer may install.

**LIGHTS, INTERIOR**

Dome light to be mounted on headliner on longitudinal centerline of vehicle approximately 25" from windshield garnish molding. Operation to be independent of other lights. Vehicle to be equipped with two, separately switched, map lights, to direct a restricted beam of light to the driver and/or the front seat passenger. Exact mounting position to be approved by the Michigan State Police. No interior light to be illuminated by open doors.

**LIGHT, ENGINE & TRUNK COMPARTMENT**

To be equipped with an engine and trunk compartment light controlled by body computer or ball bearing switch.

**LOCKS**

To be equipped with power door locks. All locks on a car to be keyed alike, different key for each car.

**MIRRORS, REARVIEW (INSIDE)**

Day/night type.

**MIRRORS, SIDEVIEW (OUTSIDE)**

Remote control type, installed on left-hand and right-hand doors. Controls to be within convenient reach of driver. Rectangular design approximate size 5" x 3"; minimum viewing area of 15 square inches.

**PAINT COLOR**

To be same color as Dulux 93-032. Paint color code to be indicated on production code plate.

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**PILOT INSPECTION**

On any order of 15 vehicles or more and prior to initial delivery of police vehicles, the manufacturer shall schedule a pilot model inspection in order to determine compliance with the specifications. The inspection shall be conducted at each point of vehicle assembly. The manufacturer will be responsible for all travel costs incurred for the pilot inspection.

**PREDELIVERY SERVICE**

Vehicles to undergo predelivery service as provided in the State of Michigan Specification Book. May be completed by dealer.

**RADIO**

Radio to be standard equipment model.

**RADIO NOISE SUPPRESSION**

Vehicle to be equipped with standard AM and police radio noise suppression package, to include any optional grounding straps. The vehicle shall not interfere with signals received or transmitted by the mobile police radio system, nor shall the vehicle be affected by the operation of a police mobile transmitter.

**RADIO SPEAKER(S)**

A permanent magnet speaker(s), either oval or round, to be mounted in the speaker opening(s) provided on the dash/door of the unit. Speaker(s) to be of a quality equal to automotive grade. Speaker leads connected to the speaker terminals, not grounded, shall extend three feet beyond the lower edge of the center of the dashboard, (dealer may install wiring extensions).

Two/Four Speaker Installation: Speakers to be located on left and right sides of the dashboard (preferred location) or positioned in the forward portion of the left and right hand front doors. Four speaker system to include two additional speakers installed on rear deck shelf. It is preferred voice coil impedance of all speakers combined shall equal 8 ohms, power handling capacity 10 watts, minimum.

**REAR WINDOW DEFOGGER**

Electrical grid type. Control to be within convenient reach of driver, control switch to be clearly marked as to function.

**ROOF TOP REINFORCEMENT**

Preferred, install a steel plate at least 2.25 mm thick x 10" wide to the underside of top, centered on the longitudinal center line of the roof panel. Plate is to extend from the windshield header to the first top

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cross-member support and is to be welded at both ends. Plate is to hold roof skin in its normal position, not allowing skin to deflect if pressure is applied to top surface. The purpose of the plate is to support the overhead emergency light. **(or)** Roof top membrane support within underside of top, centered on the longitudinal centerline of the roof panel. Membrane support is to hold roof skin in its normal position, not allowing skin to deflect if pressure is applied to top surface. The purpose of the membrane is to support the overhead emergency light.

**SEAT ASSEMBLY, FRONT**

Bucket seat type, 45/45 or 40/40, individually adjustable. The drivers seat only to be 4-way power minimum (6 or 8 way power preferred). Both seats to have heavy-duty interior construction designed for rugged police use, comfortable foam-padded seat cushions and backs. To permit the installation of radio equipment, a minimum width of eight (8) inches is required between the bucket seats. Floor mounted shift lever with console not permitted.

**SHELF**

Mounted in trunk, a tray/shelf to secure radios and other equipment. May be dealer installed.

**SPARE TIRE**

Full size spare tire and wheel to be mounted in trunk.

**SPECIAL ENGINEERING, POLICE PACKAGE**

Vehicle to be equipped with the manufacturer's engineered Police Package, capable of emergency high speed vehicle operations.

**SPEEDOMETER**

Shall be calibrated to within  $\pm 3$  mph accuracy, 0 - 140 mph scale minimum. Analog type scale graduations are to be linear and of 1 or 2 mph increments. It may be supplemented or replaced by a digital type speedometer to be in 1 mph increments.

**SPOTLIGHTS**

Unity ABS plastic spot lamps with LED lamp assembly (Whelen P46SLC) to be mounted on the left-hand and right-hand "A" pillar. Left and right spotlights are to be wired independent of ignition, individually fused with up to 15 amp capacity. Spotlight fuses shall be readily accessible to the driver, with location in the fuse panel preferred. Spotlights shall be factory installed if offered by the vehicle manufacturer. Any non-factory installation shall be authorized by the vehicle manufacturer. Installation is to be approved by Michigan State Police.

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**STEERING**

Power steering, manufacturer to provide steering gear which affords maximum "firm feel" and fast return characteristics designed for high speed pursuit type driving.

**STEERING WHEEL**

Tilt type steering wheel required. Round with anti-slip surface.

**SUSPENSION SYSTEM, POLICE**

To include heavy-duty springs, front and rear, in combination with heavy-duty shock absorbers, and front and rear heavy-duty stabilizer bars.

**TECHNICAL SERVICE BULLETINS**

Technical Service Bulletins covering vehicles purchased under this specification must remain available for up to 6 years.

**TIRES**

Tires (including spare) preferred to be Goodyear, police pursuit radials. Speed rating to meet or exceed vehicle performance capabilities. Tire to be approved by Michigan State Police.

**TOOLS**

Wheel wrench and jack.

**TRANSMISSION**

Is to be 5 or 6 speed, fully automatic, heaviest duty available. It must incorporate manual or electronic low gear lockout to prevent manual shifting. Transmission selector lever shall be shortest design available, to minimize intrusion of the equipment mounting area.

**TRIM**

Front and rear bumper valances (fascias) to be color coordinated. Color to be approved by Michigan State Police.

**TRUNK MAT**

To be full floor.

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**TRUNK RELEASE, REMOTE**

To be equipped with electrically operated remote control trunk release. Control to be within convenient reach of the driver, located on the right side of the steering column (in glove box not acceptable), centerline of dash board preferred. Electric system wired independently of ignition switch (battery direct). Dealer may relocate control and/or alter factory wiring to conform with this requirement.

**UPHOLSTERY, FRONT & REAR**

Front seats to be upholstered in heavy-duty cloth or combination of heavy-duty cloth and vinyl (blue is preferred or dark charcoal color acceptable). All vinyl not- acceptable. Rear bench seat to be upholstered in all vinyl.

**WHEELS AND COVERS**

To be heavy-duty construction, designed for police use, black in color. It is preferred wheels be equipped with hubcaps. Full wheel covers not acceptable.

**WINDOWS, POWER**

Side windows to be electrically powered with each door having its own window control. The driver's door is to have controls for all windows. Rear door power window switches to be deactivated. Rear power windows to be operable from driver's position only.

**WINDSHIELD WIPERS/WASHERS**

Multiple speed electric, to include intermittent feature.

**WIRING, SPECIAL**

Vehicle to include a 30-amp circuit breaker equipped battery feed auxiliary wire, and 30-amp circuit breaker equipped ignition feed auxiliary wire.

**NOTE: No dealer advertising to be on vehicles.**

**QUALIFICATION TESTING**

In order to qualify for bidding, all vehicles submitted by manufacturers must meet each of the following performance standards:

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**1. ACCELERATION**

- 0 - 60 MPH - 9.0 seconds or less**
- 0 - 80 MPH - 14.9 seconds or less**
- 0 -100 MPH - 24.6 seconds or less**

Each vehicle will make 4 acceleration runs, and the times for the 4 runs will be averaged.

**2. TOP SPEED**

**A speed of 110 mph must be attained within a distance of 4,838 feet and 120 mph within a distance of 8,985 feet. For purposes to be explained in the test booklet, the vehicle will, after attaining the 120 mph minimum be accelerated to the maximum speed attainable within 14 miles.**

**3. BRAKE TEST**

- a) (Minimum Universal Burnish Procedure) Prior to being transported to the test sites, all test vehicles will have the brakes burnished by MSP staff performing 10 controlled impending skid (threshold) stops from 60 mph.
- b) **Phase 1** - The test vehicle will make ten (10) controlled impending skid (threshold) measured stops from 60 mph.
- c) **Phase2** - After a 3.2 mile cool down performed at 60 mph the entire sequence will be repeated. The exact initial velocity at the beginning of each 60 - 0 mph decelerations, and the exact distance required to make each stop will be recorded by electronic speed and distance meters.
- d) The twenty (20) measured stops will be used to calculate the average deceleration rate, which is the vehicle's score for this test. Evidence of brake fade and ability of the vehicle to stop in a straight line within its own lane will be evaluated. A minimum of 25.79 ft/sec<sup>2</sup> average must be attained from phases (a) and (b) of 20 controlled impending skid (threshold) stops.

**COMPETITIVE TEST CATEGORIES**

Each vehicle to be considered for the bid will be evaluated in the following weighted categories:

<u>CATEGORY</u>	<u>CATEGORY WEIGHT</u>
Vehicle Dynamics	30 Points
Braking	25 Points
0 - 100 Acceleration	20 Points
Top-Speed	10 Points
Ergonomics/Communications	10 Points
Fuel Economy	5 Points

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**SCORING METHODOLOGY**

**Raw Score:** A raw score is developed for each vehicle by testing in each of the above categories. These scores are expressed in terms of seconds, miles-per-hour, feet-per-second<sup>2</sup>, points, and miles-per-gallon.

**Deviation Factor:** The best scoring vehicle in each test category receives a “0” as its deviation factor. The decimal equivalent of the percentage by which each of the other vehicles varies from the best score in that category is that vehicle’s deviation factor.

**Weighted Category Score:** Each vehicle’s weighted category score is determined by multiplying its deviation factor (as determined above) by the category weight.

**Total Weighted Score:** The total weighted score for each vehicle is derived by adding together the six (6) weighted category scores for that vehicle.

**BID ADJUSTMENT METHODOLOGY**

**Bid Adjustment Figure:** The bid adjustment figure will be one percent (1%) of the lowest bid price received.

**Actual Dollar Adjustment:** In order to determine the actual dollar amount by which each vehicle’s bid price will be adjusted, the bid adjustment figure is multiplied by that vehicle’s total weighted score.

**Adjusted Bid Price:** The actual dollar adjustment amount arrived at for each vehicle is then added to that vehicle’s actual bid price. The resultant figure is the adjusted bid price upon which the purchasing decision will be based.

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**3905-0010A POLICE CAR: PATROL, 4-Door Sedan, All Wheel Drive Construction-Monocoque (Unitized) type, Large, (120+ cubic feet volume)**

**MAKE:** \_\_\_\_\_ Ford Police Interceptor – E85 Capable

**BID REQUIREMENTS**

Prior to bidding, a car dealer, manufacturer, or representative will be required to furnish a “police package” vehicle for test purposes. All test vehicles shall be **2012** models, which are equipped with the drive train, suspension, and brake components, as well as tires and interior appointments and instrumentation as called for in the specification requirements on all vehicles in this requisition. Submitters of vehicles shall declare in writing any deviations from the specifications at the time of delivery of these test vehicles. Interior and exterior colors shall be the manufacturer’s option. One extra set of engine belts and four (4) wheels and tires shall be provided on test day for each car submitted. Test vehicles submitted shall have undergone sufficient break-in to permit extended periods of maximum acceleration and high speed driving. Brakes on the test car shall have been burnished prior to delivery.

**Test cars shall be delivered to the Vehicle and Travel Services,  
State Secondary Complex, (517) 322-5000  
6951 Crowner Drive, Lansing, Michigan, 48913  
no later than 4 p.m., Tuesday, September 6, 2011.**

Each vehicle will be subjected to six competitive and qualification tests. Any vehicle which fails to meet the minimum standards found under the Qualification Testing section of this specification will not be considered for this bid.

The State of Michigan shall not be responsible for any damage during the tests or the condition of the vehicle when returned to the submitter after testing. Furthermore, all cars tested will be at the owner’s risk for any damage occurring to the vehicles for any reason. The test vehicles will be tested and driven under the supervision of the Michigan Department of State Police by employees of the department or personnel designated by the department.

Vehicles used for testing will be available for pick up by the submitter no later than one (1) month following completion of testing.

**SPECIFICATION**

**MODEL**

**2012 CURRENT NEW - STANDARD FACTORY EQUIPPED:**

Vehicles to be factory equipped with the following items, unless dealer installation is herein permitted.

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**AIR BAGS**

Vehicle to be equipped with driver frontal-impact airbag, passenger frontal impact air bag, side-impact curtain roof rail airbags, and thoracic seat airbags.

**AIR CONDITIONING**

System must be designed to prevent component damage due to high speed driving.

**ALTERNATOR**

Transistorized regulator, minimum curb idle output of 110 amps at 221 degrees Fahrenheit, (at manufacturer's recommended idle speed). Shall be of heavy-duty design, capable of surviving patrol car operation. Maximum output shall be at least 130 amps at 221 degrees Fahrenheit. Output ratings are for typical summer underhood ambient temperatures measured at 221 degrees Fahrenheit and not S.A.E rating method.

**ANTENNA**

Vehicle to be equipped with standard AM/FM original equipment antenna embedded in glass. Mast type antenna not acceptable.

**ANTIFREEZE**

To be equipped with antifreeze protection to -35 degrees F minimum.

**BATTERY**

12 volt, minimum 720 cold cranking amps.

**BODY SIDE MOLDING**

Vehicle to be equipped with body side molding. Molding on front doors to be deleted, preferred. No holes to be on doors for moldings.

**BRAKES**

Vehicle to be equipped with power assisted, four wheel disc anti-lock brake system.

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**POWER PORT(S) PREFERRED**

To be located on instrument panel, wired independent of ignition system.

**COOLING SYSTEM**

Vehicle to have maximum size cooling system available, incorporating “coolant recovery” system.

**DIFFERENTIAL**

Heavy duty, final drive assembly.

**ENGINE**

Engine to be the largest cubic inch/liter displacement available in the model of the vehicle submitted, with specific displacement to the manufacturer’s option, providing the car will meet or exceed the vehicle performance requirements in the Qualification Testing section of this specification.

**FUEL SYSTEM**

Fuel system shall be gasoline and/or E85 capable. System shall be able to operate at various percentages of the two fuel mixtures.

**FLOOR MAT**

Full floor mat, heavy-duty rubber or vinyl, front and rear.

**GLASS**

All windows shall be heat absorbing (tinted) type.

**HEADLIGHTS**

To be equipped with high and low beam quartz-halogen headlights. If vehicle is equipped with Daylight Running Lights, it must incorporate a means (switch system) to make the lights inoperable at drivers’ discretion.

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**HOOD LATCH RELEASE**

To be equipped with inside hood latch release.

**KEYS**

Three (3) keys to be furnished with each car. Third key may be dealer supplied on original equipment blank only. Other key blanks may be generic copies.

**LICENSE PLATE BRACKETS**

Vehicle shall be equipped with manufacturer supplied front and rear license plate brackets. Dealer may install.

**LIGHTS, INTERIOR**

Dome light to be mounted on headliner on longitudinal centerline of vehicle approximately 25" from windshield garnish molding. Operation to be independent of other lights. Vehicle to be equipped with two, separately switched, map lights, to direct a restricted beam of light to the driver and/or the front seat passenger. Exact mounting position to be approved by the Michigan State Police. No interior light to be illuminated by open doors.

**LIGHT, ENGINE & TRUNK COMPARTMENT**

To be equipped with an engine and trunk compartment light controlled by body computer or ball bearing switch.

**LOCKS**

To be equipped with power door locks. All locks on a car to be keyed alike, different key for each car.

**MIRRORS, REARVIEW (INSIDE)**

Day/night type.

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**MIRRORS, SIDEVIEW (OUTSIDE)**

Remote control type, installed on left-hand and right-hand doors. Controls to be within convenient reach of driver. Rectangular design approximate size 5" x 3"; minimum viewing area of 15 square inches.

**PAINT COLOR**

To be same color as Dulux 93-032. Paint color code to be indicated on production code plate.

**PILOT INSPECTION**

On any order of 15 vehicles or more and prior to initial delivery of police vehicles, the manufacturer shall schedule a pilot model inspection in order to determine compliance with the specifications. The inspection shall be conducted at each point of vehicle assembly. The manufacturer will be responsible for all travel costs incurred for the pilot inspection.

**PREDELIVERY SERVICE**

Vehicles to undergo predelivery service as provided in the State of Michigan Specification Book. May be completed by dealer.

**RADIO**

Radio to be standard equipment model.

**RADIO NOISE SUPPRESSION**

Vehicle to be equipped with standard AM and police radio noise suppression package, to include any optional grounding straps. The vehicle shall not interfere with signals received or

transmitted by the mobile police radio system, nor shall the vehicle be affected by the operation of a police mobile transmitter.

**RADIO SPEAKER(S)**

A permanent magnet speaker(s), either oval or round, to be mounted in the speaker opening(s) provided on the dash/door of the unit. Speaker(s) to be of a quality equal to automotive grade.

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Speaker leads connected to the speaker terminals, not grounded, shall extend three feet beyond the lower edge of the center of the dashboard. (dealer may install wiring extensions).

Two/Four Speaker Installation: Speakers to be located on left and right sides of the dashboard (preferred location) or positioned in the forward portion of the left and right hand front doors. Four speaker system to include two additional speakers installed on rear deck shelf. It is preferred voice coil impedance of all speakers combined shall equal 8 ohms, power handling capacity 10 watts, minimum.

**REAR WINDOW DEFOGGER**

Electrical grid type. Control to be within convenient reach of driver, control switch to be clearly marked as to function.

**ROOF TOP REINFORCEMENT**

Preferred, install a steel plate at least 2.25 mm thick x 10" wide to the underside of top, centered on the longitudinal center line of the roof panel. Plate is to extend from the windshield header to the first top cross-member support and is to be welded at both ends. Plate is to hold roof skin in its normal position, not allowing skin to deflect if pressure is applied to top surface. The purpose of the plate is to support the overhead emergency light. **(or)** Roof top membrane support within underside of top, centered on the longitudinal centerline of the roof panel. Membrane support is to hold roof skin in its normal position, not allowing skin to deflect if pressure is applied to top surface. The purpose of the membrane is to support the overhead emergency light.

**SEAT ASSEMBLY, FRONT**

Bucket seat type, 45/45 or 40/40, individually adjustable. The drivers seat only to be 4-way power minimum (6 or 8 way power preferred). Both seats to have heavy-duty interior construction designed for rugged police use, comfortable foam-padded seat cushions and backs. To permit the installation of radio equipment, a minimum width of eight (8) inches is required between the bucket seats. Floor mounted shift lever with console not permitted.

**SHELF**

Mounted in trunk, a tray/shelf to secure radios and other equipment. May be dealer installed.

**SPARE TIRE**

Full size spare tire and wheel to be mounted in trunk.

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**SPECIAL ENGINEERING, POLICE PACKAGE**

Vehicle to be equipped with the manufacturer's engineered Police Package, capable of emergency high speed vehicle operations.

**SPEEDOMETER**

Shall be calibrated to within  $\pm 3$  mph accuracy, 0 - 140 mph scale minimum. Analog type scale graduations are to be linear and of 1 or 2 mph increments. It may be supplemented or replaced by a digital type speedometer to be in 1 mph increments.

**SPOTLIGHTS**

Unity ABS plastic spot lamps with LED lamp assembly (Whelen P46SLC) to be mounted on the left-hand and right-hand "A" pillar. Left and right spotlights are to be wired independent of ignition, individually fused with up to 15 amp capacity. Spotlight fuses shall be readily accessible to the driver, with location in the fuse panel preferred. Spotlights shall be factory installed if offered by the vehicle manufacturer. Any non-factory installation shall be authorized by the vehicle manufacturer. Installation is to be approved by Michigan State Police.

**STEERING**

Power steering, manufacturer to provide steering gear which affords maximum "firm feel" and fast return characteristics designed for high speed pursuit type driving.

**STEERING WHEEL**

Tilt type steering wheel required. Round with anti-slip surface.

**SUSPENSION SYSTEM, POLICE**

To include heavy-duty springs, front and rear, in combination with heavy-duty shock absorbers, and front and rear heavy-duty stabilizer bars.

**TECHNICAL SERVICE BULLETINS**

Technical Service Bulletins covering vehicles purchased under this specification must remain available for up to 6 years.

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**TIRES**

Tires (including spare) preferred to be Goodyear, police pursuit radials. Speed rating to meet or exceed vehicle performance capabilities. Tire to be approved by Michigan State Police.

**TOOLS**

Wheel wrench and jack.

**TRANSMISSION**

Is to be 5 or 6 speed, fully automatic, heaviest duty available. It must incorporate manual or electronic low gear lockout to prevent manual shifting. Transmission selector lever shall be shortest design available, to minimize intrusion of the equipment mounting area.

**TRIM**

Front and rear bumper valances (fascias) to be color coordinated. Color to be approved by Michigan State Police.

**TRUNK MAT**

To be full floor.

**TRUNK RELEASE, REMOTE**

To be equipped with electrically operated remote control trunk release. Control to be within convenient reach of the driver, located on the right side of the steering column (in glove box not acceptable), centerline of dash board preferred. Electric system wired independently of ignition switch (battery direct). Dealer may relocate control and/or alter factory wiring to conform with this requirement.

**UPHOLSTERY, FRONT & REAR**

Front seats to be upholstered in heavy-duty cloth or combination of heavy-duty cloth and vinyl (blue is preferred or dark charcoal color acceptable). All vinyl not- acceptable. Rear bench seat to be upholstered in all vinyl.

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**WHEELS AND COVERS**

To be heavy-duty construction, designed for police use, black in color. It is preferred wheels be equipped with hubcaps. Full wheel covers not acceptable.

**WINDOWS, POWER**

Side windows to be electrically powered with each door having its own window control. The driver's door is to have controls for all windows. Rear door power window switches to be deactivated. Rear power windows to be operable from driver's position only.

**WINDSHIELD WIPERS/WASHERS**

Multiple speed electric, to include intermittent feature.

**WIRING, SPECIAL**

Vehicle to include a 30-amp circuit breaker equipped battery feed auxiliary wire, and 30-amp circuit breaker equipped ignition feed auxiliary wire.

**NOTE: No dealer advertising to be on vehicles.**

**QUALIFICATION TESTING**

In order to qualify for bidding, all vehicles submitted by manufacturers must meet each of the following performance standards:

**1. ACCELERATION**

<b>0 - 60 MPH -</b>	<b>9.0 seconds or less</b>
<b>0 - 80 MPH -</b>	<b>14.9 seconds or less</b>
<b>0 -100 MPH -</b>	<b>24.6 seconds or less</b>

Each vehicle will make 4 acceleration runs, and the times for the 4 runs will be averaged.

**2. TOP SPEED**

A speed of 110 mph must be attained within a distance of 4,838 feet and 120 mph within a distance of 8,985 feet. For purposes to be explained in the test booklet, the vehicle will,

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after attaining the 120 mph minimum be accelerated to the maximum speed attainable within 14 miles.

3. BRAKE TEST

(Minimum Universal Burnish Procedure) Prior to being transported to the test sites, all test vehicles will have the brakes burnished by MSP staff performing 10 controlled impending skid (threshold) stops from 60 mph.

**Phase 1 - The test vehicle will make ten (10) controlled impending skid (threshold) measured stops from 60 mph.**

**Phase 2** - After a 3.2 mile cool down performed at 60 mph the entire sequence will be repeated. The exact initial velocity at the beginning of each 60 - 0 mph decelerations, and the exact distance required to make each stop will be recorded by electronic speed and distance meters.

The twenty (20) measured stops will be used to calculate the average deceleration rate, which is the vehicle's score for this test. Evidence of brake fade and ability of the vehicle to stop in a straight line within its own lane will be evaluated. A minimum of 25.79 ft/sec<sup>2</sup> average must be attained from phases (a) and (b) of 20 controlled impending skid (threshold) stops.

**COMPETITIVE TEST CATEGORIES**

Each vehicle to be considered for the bid will be evaluated in the following weighted categories:

<u>CATEGORY</u>	<u>CATEGORY WEIGHT</u>
Vehicle Dynamics	30 Points
Braking	25 Points
0 - 100 Acceleration	20 Points
Top-Speed	10 Points
Ergonomics/Communications	10 Points
Fuel Economy	5 Points

**SCORING METHODOLOGY**

**Raw Score:** A raw score is developed for each vehicle by testing in each of the above categories. These scores are expressed in terms of seconds, miles-per-hour, feet-per-second<sup>2</sup>, points, and miles-per-gallon.

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**Deviation Factor:** The best scoring vehicle in each test category receives a “0” as its deviation factor. The decimal equivalent of the percentage by which each of the other vehicles varies from the best score in that category is that vehicle’s deviation factor.

**Weighted Category Score:** Each vehicle’s weighted category score is determined by multiplying its deviation factor (as determined above) by the category weight.

**Total Weighted Score:** The total weighted score for each vehicle is derived by adding together the six (6) weighted category scores for that vehicle.

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**3905-0010B POLICE CAR: PATROL, 4-Door Sedan, All Wheel Drive, Turbo Charged Construction- Monocoque (Unitized) type, Large, (120+ cubic feet volume)**

**MAKE:**

**Ford Police Interceptor**

**BID REQUIREMENTS**

Prior to bidding, a car dealer, manufacturer, or representative will be required to furnish a “police package” vehicle for test purposes. All test vehicles shall be **2012** models, which are equipped with the drive train, suspension, and brake components, as well as tires and interior appointments and instrumentation as called for in the specification requirements on all vehicles in this requisition. Submitters of vehicles shall declare in writing any deviations from the specifications at the time of delivery of these test vehicles. Interior and exterior colors shall be the manufacturer’s option. One extra set of engine belts and four (4) wheels and tires shall be provided on test day for each car submitted. Test vehicles submitted shall have undergone sufficient break-in to permit extended periods of maximum acceleration and high speed driving. Brakes on the test car shall have been burnished prior to delivery.

**Test cars shall be delivered to the Vehicle and Travel Services,  
State Secondary Complex, (517) 322-5000  
6951 Crowner Drive, Lansing, Michigan, 48913  
no later than 4 p.m., Tuesday, September 6, 2011.**

Each vehicle will be subjected to six competitive and qualification tests. Any vehicle which fails to meet the minimum standards found under the Qualification Testing section of this specification will not be considered for this bid.

The State of Michigan shall not be responsible for any damage during the tests or the condition of the vehicle when returned to the submitter after testing. Furthermore, all cars tested will be at the owner’s risk for any damage occurring to the vehicles for any reason. The test vehicles will be tested and driven under the supervision of the Michigan Department of State Police by employees of the department or personnel designated by the department.

Vehicles used for testing will be available for pick up by the submitter no later than one (1) month following completion of testing.

**SPECIFICATION**

**MODEL**

**2012 CURRENT NEW - STANDARD FACTORY EQUIPPED:**

Vehicles to be factory equipped with the following items, unless dealer installation is herein permitted.

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**AIR BAGS**

Vehicle to be equipped with driver frontal-impact airbag, passenger frontal impact air bag, side-impact curtain roof rail airbags, and thoracic seat airbags.

**AIR CONDITIONING**

System must be designed to prevent component damage due to high speed driving.

**ALTERNATOR**

Transistorized regulator, minimum curb idle output of 110 amps at 221 degrees Fahrenheit, (at manufacturer's recommended idle speed). Shall be of heavy-duty design, capable of surviving patrol car operation. Maximum output shall be at least 130 amps at 221 degrees Fahrenheit. Output ratings are for typical summer underhood ambient temperatures measured at 221 degrees Fahrenheit and not S.A.E rating method.

**ANTENNA**

Vehicle to be equipped with standard AM/FM original equipment antenna embedded in glass. Mast type antenna not acceptable.

**ANTIFREEZE**

To be equipped with antifreeze protection to -35 degrees F minimum.

**BATTERY**

12 volt, minimum 720 cold cranking amps.

**BODY SIDE MOLDING**

Vehicle to be equipped with body side molding. Molding on front doors to be deleted, preferred. No holes to be on doors for moldings.

**BRAKES**

Vehicle to be equipped with power assisted, four wheel disc anti-lock brake system.

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**POWER PORT(S) PREFERRED**

To be located on instrument panel, wired independent of ignition system.

**COOLING SYSTEM**

Vehicle to have maximum size cooling system available, incorporating “coolant recovery” system.

**DIFFERENTIAL**

Heavy duty, final drive assembly.

**ENGINE**

Engine to be the largest cubic inch/liter displacement available in the model of the vehicle submitted, with specific displacement to the manufacturer’s option, providing the car will meet or exceed the vehicle performance requirements in the Qualification Testing section of this specification.

**FUEL SYSTEM**

Fuel system shall be gasoline and/orE85 capable. System shall be able to operate at various percentages of the two fuel mixtures.

**FLOOR MAT**

Full floor mat, heavy-duty rubber or vinyl, front and rear.

**GLASS**

All windows shall be heat absorbing (tinted) type.

**HEADLIGHTS**

To be equipped with high and low beam quartz-halogen headlights. If vehicle is equipped with Daylight Running Lights, it must incorporate a means (switch system) to make the lights inoperable at drivers’ discretion.

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**HOOD LATCH RELEASE**

To be equipped with inside hood latch release.

**KEYS**

Three (3) keys to be furnished with each car. Third key may be dealer supplied on original equipment blank only. Other key blanks may be generic copies.

**LICENSE PLATE BRACKETS**

Vehicle shall be equipped with manufacturer supplied front and rear license plate brackets. Dealer may install.

**LIGHTS, INTERIOR**

Dome light to be mounted on headliner on longitudinal centerline of vehicle approximately 25" from windshield garnish molding. Operation to be independent of other lights. Vehicle to be equipped with two, separately switched, map lights, to direct a restricted beam of light to the driver and/or the front seat passenger. Exact mounting position to be approved by the Michigan State Police. No interior light to be illuminated by open doors.

**LIGHT, ENGINE & TRUNK COMPARTMENT**

To be equipped with an engine and trunk compartment light controlled by body computer or ball bearing switch.

**LOCKS**

To be equipped with power door locks. All locks on a car to be keyed alike, different key for each car.

**MIRRORS, REARVIEW (INSIDE)**

Day/night type.

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**MIRRORS, SIDEVIEW (OUTSIDE)**

Remote control type, installed on left-hand and right-hand doors. Controls to be within convenient reach of driver. Rectangular design approximate size 5" x 3"; minimum viewing area of 15 square inches.

**PAINT COLOR**

To be same color as Dulux 93-032. Paint color code to be indicated on production code plate.

**PILOT INSPECTION**

On any order of 15 vehicles or more and prior to initial delivery of police vehicles, the manufacturer shall schedule a pilot model inspection in order to determine compliance with the specifications. The inspection shall be conducted at each point of vehicle assembly. The manufacturer will be responsible for all travel costs incurred for the pilot inspection.

**PREDELIVERY SERVICE**

Vehicles to undergo predelivery service as provided in the State of Michigan Specification Book. May be completed by dealer.

**RADIO**

Radio to be standard equipment model.

**RADIO NOISE SUPPRESSION**

Vehicle to be equipped with standard AM and police radio noise suppression package, to include any optional grounding straps. The vehicle shall not interfere with signals received or transmitted by the mobile police radio system, nor shall the vehicle be affected by the operation of a police mobile transmitter.

**RADIO SPEAKER(S)**

A permanent magnet speaker(s), either oval or round, to be mounted in the speaker opening(s) provided on the dash/door of the unit. Speaker(s) to be of a quality equal to automotive grade. Speaker leads connected to the speaker terminals, not grounded, shall extend three feet beyond the lower edge of the center of the dashboard, (dealer may install wiring extensions).

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Two/Four Speaker Installation: Speakers to be located on left and right sides of the dashboard (preferred location) or positioned in the forward portion of the left and right hand front doors. Four speaker system to include two additional speakers installed on rear deck shelf. It is preferred voice coil impedance of all speakers combined shall equal 8 ohms, power handling capacity 10 watts, minimum.

**REAR WINDOW DEFOGGER**

Electrical grid type. Control to be within convenient reach of driver, control switch to be clearly marked as to function.

**ROOF TOP REINFORCEMENT**

Preferred, install a steel plate at least 2.25 mm thick x 10" wide to the underside of top, centered on the longitudinal center line of the roof panel. Plate is to extend from the windshield header to the first top cross-member support and is to be welded at both ends. Plate is to hold roof skin in its normal position, not allowing skin to deflect if pressure is applied to top surface. The purpose of the plate is to support the overhead emergency light. **(or)** Roof top membrane support within underside of top, centered on the longitudinal centerline of the roof panel. Membrane support is to hold roof skin in its normal position, not allowing skin to deflect if pressure is applied to top surface. The purpose of the membrane is to support the overhead emergency light.

**SEAT ASSEMBLY, FRONT**

Bucket seat type, 45/45 or 40/40, individually adjustable. The drivers seat only to be 4-way power minimum (6 or 8 way power preferred). Both seats to have heavy-duty interior construction designed for rugged police use, comfortable foam-padded seat cushions and backs.

To permit the installation of radio equipment, a minimum width of eight (8) inches is required between the bucket seats. Floor mounted shift lever with console not permitted.

**SHELF**

Mounted in trunk, a tray/shelf to secure radios and other equipment. May be dealer installed.

**SPARE TIRE**

Full size spare tire and wheel to be mounted in trunk.

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**SPECIAL ENGINEERING, POLICE PACKAGE**

Vehicle to be equipped with the manufacturer's engineered Police Package, capable of emergency high speed vehicle operations.

**SPEEDOMETER**

Shall be calibrated to within  $\pm 3$  mph accuracy, 0 - 140 mph scale minimum. Analog type scale graduations are to be linear and of 1 or 2 mph increments. It may be supplemented or replaced by a digital type speedometer to be in 1 mph increments.

**SPOTLIGHTS**

Unity ABS plastic spot lamps with LED lamp assembly (Whelen P46SLC) to be mounted on the left-hand and right-hand "A" pillar. Left and right spotlights are to be wired independent of ignition, individually fused with up to 15 amp capacity. Spotlight fuses shall be readily accessible to the driver, with location in the fuse panel preferred. Spotlights shall be factory installed if offered by the vehicle manufacturer. Any non-factory installation shall be authorized by the vehicle manufacturer. Installation is to be approved by Michigan State Police.

**STEERING**

Power steering, manufacturer to provide steering gear which affords maximum "firm feel" and fast return characteristics designed for high speed pursuit type driving.

**STEERING WHEEL**

Tilt type steering wheel required. Round with anti-slip surface.

**SUSPENSION SYSTEM, POLICE**

To include heavy-duty springs, front and rear, in combination with heavy-duty shock absorbers, and front and rear heavy-duty stabilizer bars.

**TECHNICAL SERVICE BULLETINS**

Technical Service Bulletins covering vehicles purchased under this specification must remain available for up to 6 years.

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**TIRES**

Tires (including spare) preferred to be Goodyear, police pursuit radials. Speed rating to meet or exceed vehicle performance capabilities. Tire to be approved by Michigan State Police.

**TOOLS**

Wheel wrench and jack.

**TRANSMISSION**

Is to be 5 or 6 speed, fully automatic, heaviest duty available. It must incorporate manual or electronic low gear lockout to prevent manual shifting. Transmission selector lever shall be shortest design available, to minimize intrusion of the equipment mounting area.

**TRIM**

Front and rear bumper valances (fascias) to be color coordinated. Color to be approved by Michigan State Police.

**TRUNK MAT**

To be full floor.

**TRUNK RELEASE, REMOTE**

To be equipped with electrically operated remote control trunk release. Control to be within convenient reach of the driver, located on the right side of the steering column (in glove box not acceptable), centerline of dash board preferred. Electric system wired independently of ignition switch (battery direct). Dealer may relocate control and/or alter factory wiring to conform with this requirement.

**UPHOLSTERY, FRONT & REAR**

Front seats to be upholstered in heavy-duty cloth or combination of heavy-duty cloth and vinyl (blue is preferred or dark charcoal color acceptable). All vinyl not- acceptable. Rear bench seat to be upholstered in all vinyl.

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**WHEELS AND COVERS**

To be heavy-duty construction, designed for police use, black in color. It is preferred wheels be equipped with hubcaps. Full wheel covers not acceptable.

**WINDOWS, POWER**

Side windows to be electrically powered with each door having its own window control. The driver's door is to have controls for all windows. Rear door power window switches to be deactivated. Rear power windows to be operable from driver's position only.

**WINDSHIELD WIPERS/WASHERS**

Multiple speed electric, to include intermittent feature.

**WIRING, SPECIAL**

Vehicle to include a 30-amp circuit breaker equipped battery feed auxiliary wire, and 30-amp circuit breaker equipped ignition feed auxiliary wire.

**NOTE: No dealer advertising to be on vehicles.**

**QUALIFICATION TESTING**

In order to qualify for bidding, all vehicles submitted by manufacturers must meet each of the following performance standards:

**1. ACCELERATION**

<b>0 - 60 MPH -</b>	<b>9.0 seconds or less</b>
<b>0 - 80 MPH -</b>	<b>14.9 seconds or less</b>
<b>0 -100 MPH -</b>	<b>24.6 seconds or less</b>

Each vehicle will make 4 acceleration runs, and the times for the 4 runs will be averaged.

**2. TOP SPEED**

**A speed of 110 mph must be attained within a distance of 4,838 feet and 120 mph within a distance of 8,985 feet. For purposes to be explained in the test booklet, the vehicle will,**

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**after attaining the 120 mph minimum be accelerated to the maximum speed attainable within 14 miles.**

3. BRAKE TEST

(Minimum Universal Burnish Procedure) Prior to being transported to the test sites, all test vehicles will have the brakes burnished by MSP staff performing 10 controlled impending skid (threshold) stops from 60 mph.

**Phase 1 - The test vehicle will make ten (10) controlled impending skid (threshold) measured stops from 60 mph.**

**Phase 2** - After a 3.2 mile cool down performed at 60 mph the entire sequence will be repeated. The exact initial velocity at the beginning of each 60 - 0 mph decelerations, and the exact distance required to make each stop will be recorded by electronic speed and distance meters.

The twenty (20) measured stops will be used to calculate the average deceleration rate, which is the vehicle's score for this test. Evidence of brake fade and ability of the vehicle to stop in a straight line within its own lane will be evaluated. A minimum of 25.79 ft/sec<sup>2</sup> average must be attained from phases (a) and (b) of 20 controlled impending skid (threshold) stops.

**COMPETITIVE TEST CATEGORIES**

Each vehicle to be considered for the bid will be evaluated in the following weighted categories:

<u>CATEGORY</u>	<u>CATEGORY WEIGHT</u>
Vehicle Dynamics	30 Points
Braking	25 Points
0 - 100 Acceleration	20 Points
Top-Speed	10 Points
Ergonomics/Communications	10 Points
Fuel Economy	5 Points

**SCORING METHODOLOGY**

**Raw Score:** A raw score is developed for each vehicle by testing in each of the above categories. These scores are expressed in terms of seconds, miles-per-hour, feet-per-second<sup>2</sup>, points, and miles-per-gallon.

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**Deviation Factor:** The best scoring vehicle in each test category receives a “0” as its deviation factor. The decimal equivalent of the percentage by which each of the other vehicles varies from the best score in that category is that vehicle’s deviation factor.

**Weighted Category Score:** Each vehicle’s weighted category score is determined by multiplying its deviation factor (as determined above) by the category weight.

**Total Weighted Score:** The total weighted score for each vehicle is derived by adding together the six (6) weighted category scores for that vehicle.

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**3905-0011 POLICE CAR: PATROL, Rear Wheel Drive, Construction- Monocoque (Unitized) type, Large, (120+ cubic feet volume)**

**MAKE:** Dodge Charger 5.7L

**BID REQUIREMENTS**

Prior to bidding, a car dealer, manufacturer, or representative will be required to furnish a “police package” vehicle for test purposes. All test vehicles shall be **2013** models, which are equipped with the drive train, suspension, and brake components, as well as tires and interior appointments and instrumentation as called for in the specification requirements on all vehicles in this requisition. Submitters of vehicles shall declare in writing any deviations from the specifications at the time of delivery of these test vehicles. Interior and exterior colors shall be the manufacturer’s option. One extra set of engine belts and four (4) wheels and tires shall be provided on test day for each car submitted. Test vehicles submitted shall have undergone sufficient break-in to permit extended periods of maximum acceleration and high speed driving. Brakes on the test car shall have been burnished prior to delivery.

**Test cars shall be delivered to the Vehicle and Travel Services,  
State Secondary Complex, (517) 322-5000  
6951 Crowner Drive, Lansing, Michigan, 48913  
No later than 4 p.m., Thursday, August 30, 2012.**

Each vehicle will be subjected to six competitive and qualification tests. Any vehicle which fails to meet the minimum standards found under the Qualification Testing section of this specification will not be considered for this bid.

The State of Michigan shall not be responsible for any damage during the tests or the condition of the vehicle when returned to the submitter after testing. Furthermore, all cars tested will be at the owner’s risk for any damage occurring to the vehicles for any reason. The test vehicles will be tested and driven under the supervision of the Michigan Department of State Police by employees of the department or personnel designated by the department.

Vehicles used for testing will be available for pick up by the submitter no later than one (1) month following completion of testing.

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**2013 CURRENT NEW - STANDARD FACTORY EQUIPPED:**

Vehicles to be factory equipped with the following items, unless dealer installation is herein permitted.

**ADVANCED STABILITY CONTROL SYSTEM**

Vehicle to be equipped with advanced stability control system with yaw sensor. Software should allow driver the ability to drive for performance and emergency law enforcement driving. System to have two settings: full on and partial off.

**AIR BAGS**

Vehicle to be equipped with driver frontal impact, driver knee air bag, passenger frontal impact, side impact roof rail curtain air bags, and thoracic seat airbag passive restraint system.

**AIR CONDITIONING**

System must be designed to prevent component damage due to high speed driving.

**ALTERNATOR**

Transistorized regulator, minimum no-load curb idle output of 92 amps at 221 degrees Fahrenheit (at manufacturer's recommended idle speed), maximum in-park idle output of 135 amps @ 221 degrees Fahrenheit engine compartment air temperature near the alternator, and a maximum rated capacity of 173 amps @ 80 degrees Fahrenheit. Shall be of heavy-duty design, capable of surviving patrol car operation. Output ratings are for typical summer underhood ambient temperatures measured at 221 degrees Fahrenheit and not S.A.E rating method.

**ANTENNA**

Vehicle to be equipped with standard AM/FM type original equipment antenna embedded in glass.

**ANTIFREEZE**

To be equipped with antifreeze protection to -35 degrees F minimum.

**BATTERY**

12 volt, minimum 800 cold cranking amps.

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**BODY SIDE MOLDING**

Vehicle to be equipped with body side molding. Molding on front doors to be deleted. No holes to be on doors for moldings.

**BRAKES**

Vehicle to be equipped with power assisted, four wheel disc, anti-lock brake system.

**POWER PORT PREFERRED**

To be located on instrument panel wired independent of ignition system.

**CRUISE CONTROL**

May be installed if standard equipment.

**COOLING SYSTEM**

Vehicle to have maximum size cooling system available, incorporating "coolant recovery" system.

**DIFFERENTIAL**

Heaviest duty available, 2.65 ratio, with electronic traction control.

**ENGINE**

Engine to be the largest cubic inch/liter displacement available in the model of the vehicle submitted, with specific displacement to the manufacturer's option, providing the car will meet or exceed the vehicle performance requirements in the Qualification Testing section of this specification.

**FLOOR MAT**

Full floor mat, heavy-duty rubber or vinyl, front and rear.

**GLASS**

All windows shall be heat absorbing (tinted) type.

**HEADLIGHTS**

To be equipped with high and low beam quartz-halogen headlights.

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**HOOD LATCH RELEASE**

To be equipped with inside hood latch release.

**IGNITION SECURITY**

Vehicle must be equipped with an ignition security device. This device allows the user to leave the engine running and doors unlocked and prevent the vehicle from unauthorized use. The device can be FOB sense or key bypass type. If an unauthorized person attempts vehicle movement, the device should shut off the engine or prevent the vehicle from being shifted into gear.

**KEY/FOBS**

Four keys and 4 fobs to be furnished with each car. Key/fobs may be dealer supplied on original equipment.

**LICENSE PLATE BRACKETS**

Vehicle shall be equipped with manufacturer supplied front and rear license plate brackets. Dealer may install.

**LIGHTS, INTERIOR**

Dome light to be mounted on headliner on longitudinal centerline of vehicle. Operation to be independent of other lights. Vehicle to be equipped with two, separately switched, map lights, to direct a restricted beam of light to the driver and/or the front seat passenger. Exact mounting position to be approved by the Michigan State Police. No interior light to be illuminated by open doors.

**LOCKS**

To be equipped with power door locks. All locks on a car to be keyed alike, different key for each car.

**MIRRORS, REARVIEW (INSIDE)**

Day/night type.

**MIRRORS, SIDEVIEW (OUTSIDE)**

Remote control type, installed on left-hand and right-hand doors. Controls to be within convenient reach of the driver. Rectangular design approximate size 5" x 3"; minimum viewing area of 15 square inches.

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**PAINT COLOR**

To be same color as Dulux 93-032. Paint color code to be indicated on production code plate.

**PILOT INSPECTION**

On any order of 15 or more vehicles and prior to initial delivery of police vehicles, the manufacturer shall schedule a pilot model inspection in order to determine compliance with the specifications. The inspection shall be conducted at each point of vehicle assembly. The manufacturer will be responsible for all travel costs incurred for the pilot inspection.

**PREDELIVERY SERVICE**

Vehicles to undergo predelivery service as provided in the State of Michigan Specification Book. May be completed by dealer.

**RADIO**

Radio to be standard equipment model.

**RADIO NOISE SUPPRESSION**

Vehicle shall be equipped with standard AM and police radio noise suppression package, to include any optional grounding straps. The vehicle shall not interfere with signals received or transmitted by the mobile police radio system, nor shall the vehicle be affected by the operation of a police mobile transmitter.

**RADIO SPEAKER(S)**

A permanent magnet speaker(s), either oval or round, to be mounted in the speaker opening(s) provided on the dash/door of the unit. Speaker(s) to be of a quality equal to automotive grade. Speaker leads connected to the speaker terminals, not grounded, shall extend three feet beyond the lower edge of the center of the dashboard. (dealer may install wiring extensions).

Two/Four Speaker Installation: Speakers to be located on left and right sides of the dashboard (preferred location) or positioned in the forward portion of the left and right hand front doors. Four speaker system to include two additional speakers installed on rear deck shelf. It is preferred voice coil impedance of all speakers combined shall equal 8 ohms, power handling capacity 10 watts, minimum.

**REAR WINDOW DEFOGGER**

Electrical grid type. Control to be within convenient reach of driver, control switch to be clearly marked as to function.

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**ROOF TOP REINFORCEMENT AND SPECIAL WIRING**

Install a steel plate at least 2.25 mm thick x 10" wide to the underside of top, centered on the longitudinal center line of the roof panel. Plate is to extend from the windshield header to the first top cross-member support and is to be welded at both ends. Plate to hold roof skin in its normal position, not allowing skin to deflect if pressure is applied to top surface. The purpose of the plate is to support the overhead emergency light.

Vehicle to include a 30-amp circuit breaker equipped battery feed auxiliary wire, and 30-amp circuit breaker equipped ignition feed auxiliary wire.

**SEAT ASSEMBLY, FRONT**

Bucket seat type, 45/45 or 40/40, individually adjustable. The drivers seat only to be 8-way power, with reclining seatbacks. Both seats to have heavy-duty interior construction designed for rugged police use, comfortable foam-padded seat cushions and backs. To permit the installation of radio equipment, a minimum width of ten (10) inches is required between the bucket seats. Floor mounted shift lever with console not permitted.

**SPARE TIRE**

Full size spare tire and wheel to be mounted in trunk. Space saver spare mounted in trunk and full size wheel and tire provided with each vehicle is acceptable.

**SPECIAL ENGINEERING, POLICE PACKAGE**

Vehicle to be equipped with the manufacturer's engineered Police Package, capable of emergency high speed vehicle operations.

**SPEEDOMETER**

Shall be calibrated to within  $\pm 3$  mph accuracy, 0 - 160 mph scale. Analog type scale graduations to be linear and of 1 or 2 mph increments. Digital type speedometer to be in 1 mph increments.

**SPOTLIGHTS**

Unity ABS plastic spot lamps with LED lamp assembly (Whelen P46SLC) to be mounted on the left-hand and right-hand "A" pillar. Left and right spotlights to be wired independent of ignition, individually fused with 10 to 20 amp capacity. Spotlight fuses shall be readily accessible to the driver, with location in the fuse panel preferred. Spotlights shall be factory installed if offered by the vehicle manufacturer. Any non-factory installation shall be authorized by the vehicle manufacturer. Installation to be approved by Michigan State Police.

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**STARTING SYSTEM**

May be equipped with computer controlled electronic auto start system.

**STEERING**

Power steering, manufacturer to provide steering gear which affords maximum "firm feel" and fast return characteristics designed for high speed pursuit type driving.

**STEERING WHEEL**

Tilt type steering wheel required. Round with anti-slip surface.

**SUSPENSION SYSTEM, POLICE**

To include heavy-duty springs, front and rear, in combination with heavy-duty shock absorbers, and front and rear heavy-duty stabilizer bars.

**TECHNICAL SERVICE BULLETINS**

Manufacturer to supply four (4) copies of all Technical Service Bulletins covering vehicles purchased under this specification. May be supplied on disc if approved by Vehicle and Travel Services.

**TIRES**

Tires preferred (including spare) to be Goodyear or Firestone, police pursuit radials, per State of Michigan specification 5260-S1. Speed rating to meet or exceed vehicle performance capabilities. Tire to be approved by Michigan State Police. Vehicle to be equipped with Tire Pressure Monitoring System.

**TOOLS**

Wheel wrench and jack.

**TRANSMISSION**

To be 4- or 5-speed, fully automatic, and heaviest duty available. Must incorporate manual or electronic low gear lockout to prevent manual shifting. Transmission selector lever shall be shortest design available, to minimize intrusion of the equipment mounting area.

**TRIM**

Front and rear bumper valances (fascias) to be color coordinated. Color to be approved by Michigan State Police.

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**TRUNK AREA AND ENGINE COMPARTMENT LIGHTS**

To be equipped with a trunk area and engine compartment light. Each light to be activated by lighting control module.

**TRUNK MAT**

To be full floor in trunk area, of heavy duty material preferably rubber.

**TRUNK RELEASE**

To be equipped with electrically operated remote control trunk release. Control to be within convenient reach of the driver, preferably located on the right side of the steering column (in glove box not acceptable). Electric system wired independently of ignition switch. Dealer may relocate control and/or alter factory wiring to conform with this requirement.

**UPHOLSTERY, FRONT & REAR**

Front seats to be upholstered in heavy-duty cloth or combination of heavy-duty cloth and vinyl (dark blue is preferred, dark charcoal color acceptable). All vinyl not- acceptable. Rear bench seat to be upholstered with all vinyl.

**WHEELS AND COVERS**

To be 18" heavy-duty construction, designed for police use, black in color. It is preferred wheels be equipped with hubcaps. Full wheel covers acceptable.

**WINDOWS, POWER**

Side windows to be electrically powered with each door having its own window control. The driver's door to have controls for all windows. Rear door power window switches to be deactivated. Rear power windows to be operable from driver's position only.

**WINDSHIELD WIPERS/WASHERS**

Multiple speed electric, to include intermittent feature.

**NOTE: No dealer advertising to be on vehicles.**

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**QUALIFICATION TESTING**

In order to qualify for bidding, all vehicles submitted by manufacturers must meet each of the following performance standards:

**1. ACCELERATION**

**Each vehicle will make 4 acceleration runs, and the times for the 4 runs will be averaged.**

<b>0 - 60 MPH -</b>	<b>9.0</b>	<b>seconds or less</b>
<b>0 - 80 MPH -</b>	<b>14.9</b>	<b>seconds or less</b>
<b>0 -100 MPH -</b>	<b>24.6</b>	<b>seconds or less</b>

**2. TOP SPEED**

**A speed of 110 mph must be attained within a distance of 4,838 feet, and 120 mph within a distance of 8,985 feet. For purposes to be explained in the test booklet, the vehicle will, after attaining the 120-mph minimum will be accelerated to the maximum speed attainable within 14 miles.**

**3. BRAKE TEST**

- a) (Minimum Universal Burnish Procedure) Prior to being transported to the test sites, all test vehicles will have the brakes burnished by MSP staff performing 10 controlled impending skid (threshold) stops from 60 mph.
- b) **Phase 1** - The test vehicle will make ten (10) controlled impending skid (threshold) measured stops from 60 mph.
- c) **Phase2** - After a 3.2 mile cool down performed at 60 mph the entire sequence will be repeated. The exact initial velocity at the beginning of each 60 - 0 mph decelerations, and the exact distance required to make each stop will be recorded by electronic speed and distance meters.
- d) The twenty (20) measured stops will be used to calculate the average deceleration rate, which is the vehicle's score for this test. Evidence of brake fade and ability of the vehicle to stop in a straight line within its own lane will be evaluated. A minimum of 25.79 ft/sec<sup>2</sup> average must be attained from phases (a) and (b) of 20 controlled impending skid (threshold) stops.

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**COMPETITIVE TEST CATEGORIES**

Each vehicle to be considered for the bid will be evaluated in the following weighted categories:

<u>CATEGORY</u>	<u>CATEGORY WEIGHT</u>
Vehicle Dynamics	30 Points
Braking	25 Points
0 - 100 Acceleration	20 Points
Top-Speed	10 Points
Ergonomics/Communications	10 Points
Fuel Economy	5 Points

**SCORING METHODOLOGY**

**Raw Score:** A raw score is developed for each vehicle by testing in each of the above categories. These scores are expressed in terms of seconds, miles-per-hour, feet-per-second<sup>2</sup>, points, and miles-per-gallon.

**Deviation Factor:** The best scoring vehicle in each test category receives a “0” as its deviation factor. The decimal equivalent of the percentage by which each of the other vehicles varies from the best score in that category is that vehicle’s deviation factor.

**Weighted Category Score:** Each vehicle’s weighted category score is determined by multiplying its deviation factor (as determined above) by the category weight.

**Total Weighted Score:** The total weighted score for each vehicle is derived by adding together the six (6) weighted category scores for that vehicle.

**Raw Score:** A raw score is developed for each vehicle by testing in each of the above categories. These scores are expressed in terms of seconds, miles-per-hour, feet-per-second<sup>2</sup>, points, and miles-per-gallon.

**Deviation Factor:** The best scoring vehicle in each test category receives a “0” as its deviation factor. The decimal equivalent of the percentage by which each of the other vehicles varies from the best score in that category is that vehicle’s deviation factor.

**Weighted Category Score:** Each vehicle’s weighted category score is determined by multiplying its deviation factor (as determined above) by the category weight.

**Total Weighted Score:** The total weighted score for each vehicle is derived by adding together the six (6) weighted category scores for that vehicle.

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**3905-0012 PATROL: POLICE CAR, Rear Wheel Drive, Construction- Monocoque (Unitized) type, Large, (120+ cubic feet volume)**

**MAKE:** Chevrolet Caprice – 9 C1, *E85 Capable*, Option Code PPV

**BID REQUIREMENTS**

Prior to bidding, a car dealer, manufacturer, or representative will be required to furnish a “police package” vehicle for test purposes. All test vehicles shall be **2013** models, which are equipped with the drive train, suspension, and brake components, as well as tires and interior appointments and instrumentation as called for in the specification requirements on all vehicles in this requisition. Submitters of vehicles shall declare in writing any deviations from the specifications at the time of delivery of these test vehicles. Interior and exterior colors shall be the manufacturer’s option. One extra set of engine belts and four (4) wheels and tires shall be provided on test day for each car submitted. Test vehicles submitted shall have undergone sufficient break-in to permit extended periods of maximum acceleration and high speed driving. Brakes on the test car shall have been burnished prior to delivery.

**Test cars shall be delivered to the Vehicle and Travel Services,  
State Secondary Complex, (517) 322-5000  
6951 Crowner Drive, Lansing, Michigan, 48913  
No later than 4 p.m., Thursday, August 30, 2012.**

Each vehicle will be subjected to six competitive and qualification tests. Any vehicle which fails to meet the minimum standards found under the Qualification Testing section of this specification will not be considered for this bid.

The State of Michigan shall not be responsible for any damage during the tests or the condition of the vehicle when returned to the submitter after testing. Furthermore, all cars tested will be at the owner’s risk for any damage occurring to the vehicles for any reason. The test vehicles will be tested and driven under the supervision of the Michigan Department of State Police by employees of the department or personnel designated by the department.

Vehicles used for testing will be available for pick up by the submitter no later than one (1) month following completion of testing.

**SPECIFICATION**

**MODEL**

**2013 CURRENT NEW - STANDARD FACTORY EQUIPPED:**

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PURCHASING OPERATIONS**

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Vehicles to be factory equipped with the following items, unless dealer installation is herein permitted.

**ADVANCED STABILITY CONTROL SYSTEM**

Vehicle to be equipped with advanced stability control system with yaw sensor. Software should allow driver the ability to drive for performance and emergency law enforcement driving. System to have two settings: full on and performance mode.

**AIR BAGS**

Vehicle to be equipped with driver frontal impact, passenger frontal impact, side impact roof rail curtain air bags (front seat standard, full length optional), and thoracic seat airbag passive restraint system.

**AIR CONDITIONING**

System must be designed to prevent component damage due to high speed driving.

**ALTERNATOR**

Transistorized regulator, minimum no-load curb idle output of 80 amps @ 221 degrees (°) Fahrenheit (F), (at manufacturer's recommended idle speed), maximum in-park idle output of 120 amps @ 221° (F) engine compartment air temperature and a maximum capacity of 170 amps @ 77° (F). Shall be of heavy-duty design, capable of surviving patrol car operation. Maximum output shall be at least 135 amps at 221° (F) engine compartment air temperature. Output ratings are for typical summer underhood ambient temperatures measured at 221° (F) and not S.A.E rating method.

**ANTENNA**

Vehicle to be equipped with standard AM/FM type original equipment antenna mounted on centerline of roof near rear window.

**ANTIFREEZE**

To be equipped with antifreeze protection to -35 degrees F minimum

**BATTERY**

12 volt, 700 cold cranking amps. Auxiliary battery 600 cold cranking amps available as an option (RPO K4S).

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**BODY SIDE MOLDING**

Body side moldings not available.

**BRAKES**

Vehicle to be equipped with power assisted, four wheel disc, anti-lock brake system.

**POWER PORT PREFERRED**

To be located on instrument panel wired independent of ignition system. Power remains on with retained accessory power.

**CRUISE CONTROL**

May be installed if standard equipment.

**COOLING SYSTEM**

Vehicle to have maximum size cooling system available, incorporating "coolant recovery" system.

**DIFFERENTIAL**

Heaviest duty available, 2.92 ratio with Limited Slip.

**ENGINE**

Engine to be the largest cubic inch/liter displacement available in the model of the vehicle submitted, with specific displacement to the manufacturer's option, providing the car will meet or exceed the vehicle performance requirements in the Qualification Testing section of this specification.

**FLOOR MAT**

Full floor mat, heavy-duty rubber or vinyl, front and rear.

**GLASS**

Solar-Ray windshield and front doors.

**HEADLIGHTS**

To be equipped with high and low beam quartz-halogen headlights.

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**HOOD LATCH RELEASE**

To be equipped with inside hood latch release.

**IGNITION SECURITY**

Vehicle must be equipped with an ignition security device. This device allows the user to leave the engine running and doors unlocked and prevent the vehicle from unauthorized use. The device can be FOB sense or key bypass type. If an unauthorized person attempts vehicle movement, the device should shut off the engine or prevent the vehicle from being shifted into gear.

**KEY/FOBS**

Two keys and fobs furnished. 6 additional keys and key fobs are available as an option. (RPO AMF)

**LICENSE PLATE BRACKETS**

Vehicle shall be equipped with manufacturer supplied front and rear license plate brackets. Dealer may install.

**LIGHTS, INTERIOR**

Dome light to be mounted on headliner on longitudinal centerline of vehicle. Operation to be independent of other lights. Exact mounting position to be approved by the Michigan State Police. Map lights are not available from the factory; may be installed by dealer. No interior light to be illuminated by open doors. (Option 7Y6)

**LOCKS**

To be equipped with power door locks. All locks on car to be keyed alike, different key for each car.

**MIRRORS, REARVIEW (INSIDE)**

Day/night type.

**MIRRORS, SIDEVIEW (OUTSIDE)**

Remote control type, installed on left-hand and right-hand doors. Controls to be within convenient reach of the driver. Rectangular design approximate size 5" x 3"; minimum viewing area of 15 square inches.

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**PAINT COLOR**

To be same color as Dulux 93-032. Paint color code to be indicated on production code plate.

**PILOT INSPECTION**

On any order of 15 or more vehicles and prior to initial delivery of police vehicles, the manufacturer shall schedule a pilot model inspection in order to determine compliance with the specifications. The inspection shall be conducted at the port of entry. The manufacturer will be responsible for all travel costs incurred for the pilot inspection.

**PREDELIVERY SERVICE**

Vehicles to undergo predelivery service as provided in the State of Michigan Specification Book. May be completed by dealer.

**RADIO**

Radio to be standard equipment model.

**RADIO NOISE SUPPRESSION**

Vehicle shall be equipped with standard AM and police radio noise suppression package, to include any optional grounding straps. The vehicle shall not interfere with signals received or transmitted by the mobile police radio system, nor shall the vehicle be affected by the operation of a police mobile transmitter.

**RADIO SPEAKER(S)**

A permanent magnet speaker(s), either oval or round, to be mounted in the speaker opening(s) provided on the dash/door of the unit. Speaker(s) to be of a quality equal to automotive grade. Speaker leads connected to the speaker terminals, not grounded, shall extend three feet beyond the lower edge of the center of the dashboard, (dealer may install wiring extensions). (RPO WX7)

Two/Four Speaker Installation: Speakers to be located on left and right sides of the dashboard (preferred location) or positioned in the forward portion of the left and right hand front doors. Four speaker system to include two additional speakers installed on rear deck shelf. It is preferred voice coil impedance of all speakers combined shall equal 8 ohms, power handling capacity 10 watts, minimum. Speakers are located in front and rear doors.

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**REAR WINDOW DEFOGGER**

Electrical grid type. Control to be within convenient reach of driver, control switch to be clearly marked as to function.

**ROOF TOP REINFORCEMENT AND SPECIAL WIRING**

Preferred, install a steel plate at least 2.25 mm thick x 10" wide to the underside of top, centered on the longitudinal center line of the roof panel. Plate is to extend from the windshield header to the first top cross-member support and is to be welded at both ends. Plate is to hold roof skin in its normal position, not allowing skin to deflect if pressure is applied to top surface. The purpose of the plate is to support the overhead emergency light. (or) Roof top membrane support within underside of top, centered on the longitudinal centerline of the roof panel. Membrane support is to hold roof skin in its normal position, not allowing skin to deflect if pressure is applied to top surface. The purpose of the membrane is to support the overhead emergency light. Structural support is to be added by second stage manufacturer.

**SEAT ASSEMBLY, FRONT**

Bucket seat type, 45/45 or 40/40, individually adjustable. The drivers seat only to be 6-way power, with reclining seatbacks. Both seats to have heavy-duty interior construction designed for rugged police use, comfortable foam-padded seat cushions and backs. To permit the installation of radio equipment, a minimum width of ten (10) inches is required between the bucket seats. Column mounted shift lever preferred; floor mounted shift lever acceptable, if column not available.

**SPARE TIRE**

Full size spare tire and wheel to be mounted in trunk.

**SPECIAL ENGINEERING, POLICE PACKAGE**

Vehicle to be equipped with the manufacturer's engineered Police Package, capable of emergency high speed vehicle operations. (RPO 9C1)

**SPEEDOMETER**

Shall be calibrated to within  $\pm 3$  mph accuracy, 0 - 160 mph scale. Analog type scale graduations are to be linear and of 1 or 2 mph increments. Digital type speedometer is to be in 1 mph increments.

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**SPOTLIGHTS**

Unity ABS plastic spot lamps with LED lamp assembly (Whelen P46SLC) to be mounted on the left-hand and right-hand "A" pillar. Left and right spotlights to be wired independent of ignition, individually fused a with 15 amp capacity. Spotlight fuses shall be readily accessible to the driver, with location in the fuse panel preferred. Spotlights shall be factory installed if offered by the vehicle manufacturer. Any non-factory installation shall be authorized by the vehicle manufacturer. Installation to be approved by Michigan State Police.

**STARTING SYSTEM**

May be equipped with computer controlled electronic auto start system.

**STEERING**

Power steering, manufacturer to provide steering gear which affords maximum "firm feel" and fast return characteristics designed for high speed pursuit type driving.

**STEERING WHEEL**

Tilt type steering wheel required. Round with anti-slip surface.

**SUSPENSION SYSTEM, POLICE**

To include heavy-duty springs, front and rear, in combination with heavy-duty shock absorbers, and front and rear heavy-duty stabilizer bars.

To include heavy-duty springs, front and rear, in combination with heavy-duty shock absorbers, and front and rear heavy-duty stabilizer bars.

**TECHNICAL SERVICE BULLETINS**

Technical Service Bulletins covering vehicles purchased under this specification must remain available for up to 6 years.

**TIRES**

Tires preferred (including spare) to be Goodyear, police pursuit radials. Speed rating to meet or exceed vehicle performance capabilities. Tire to be approved by Michigan State Police. Vehicle to be equipped with Tire Pressure Monitoring System.

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**TOOLS**

Wheel wrench and jack.

**TRANSMISSION**

To be 4, 5 or 6-speed, fully automatic, heaviest duty available. Must incorporate manual or electronic low gear lockout to prevent manual shifting. Transmission selector lever shall be shortest design available, to minimize intrusion of the equipment mounting area.

**TRIM**

Front and rear bumper valances (fascias) to be color coordinated. Color to be approved by Michigan State Police.

**TRUNK AREA AND ENGINE COMPARTMENT LIGHTS**

To be equipped with a trunk area compartment light. Light to be activated by lighting control module. Engine compartment light not available (may be installed by Second Stage manufacturer.)

**TRUNK MAT**

To be full floor in trunk area, of heavy duty material preferably rubber.

**TRUNK RELEASE**

To be equipped with electrically operated remote control trunk release. Control to be within convenient reach of the driver, preferably located on the right side of the steering column (in glove box not acceptable). Trunk release to be controlled by ignition.

**UPHOLSTERY, FRONT & REAR**

Front seats to be upholstered in heavy-duty cloth or combination of heavy-duty cloth and vinyl (dark blue is preferred, dark charcoal color acceptable). All vinyl is not acceptable. Rear bench seat is to be upholstered with all vinyl.

**WHEELS AND COVERS**

To be 18" heavy-duty construction, designed for police use, black in color. It is preferred wheels be equipped with hubcaps. Full wheel covers acceptable.

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**WINDOWS, POWER**

Side windows to be electrically powered with each door having its own window control. The driver's door to have controls for all windows. Rear door power window switches to be deactivated. Rear power windows to be operable from driver's position only.

**WINDSHIELD WIPERS/WASHERS**

Multiple speed electric, to include intermittent feature.

**NOTE: No dealer advertising to be on vehicles.**

**QUALIFICATION TESTING**

In order to qualify for bidding, all vehicles submitted by manufacturers must meet each of the following performance standards:

**1. ACCELERATION**

**Each vehicle will make 4 acceleration runs, and the times for the 4 runs will be averaged.**

**0 - 60 MPH - 9.0 seconds or less  
0 - 80 MPH - 14.9 seconds or less  
0 -100 MPH - 24.6 seconds or less**

**2. TOP SPEED**

A speed of 110 mph must be attained within a distance of 4,838 feet, and 120 mph within a distance of 8,985 feet. For purposes to be explained in the test booklet, the vehicle will, after attaining the 120-mph minimum will be accelerated to the maximum speed attainable within 14 miles.

**3. BRAKE TEST**

- a) (Minimum Universal Burnish Procedure) Prior to being transported to the test sites, all test vehicles will have the brakes burnished by MSP staff performing 10 controlled impending skid (threshold) stops from 60 mph.
- b) **Phase 1** - The test vehicle will make ten (10) controlled impending skid (threshold) measured stops from 60 mph.
- c) **Phase 2** - After a 3.2 mile cool down performed at 60 mph the entire sequence will be repeated. The exact initial velocity at the beginning of each 60 - 0 mph decelerations,

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and the exact distance required to make each stop will be recorded by electronic speed and distance meters.

- d) The twenty (20) measured stops will be used to calculate the average deceleration rate, which is the vehicle's score for this test. Evidence of brake fade and ability of the vehicle to stop in a straight line within its own lane will be evaluated. A minimum of 25.79 ft/sec<sup>2</sup> average must be attained from phases (a) and (b) of 20 controlled impending skid (threshold) stops.

**COMPETITIVE TEST CATEGORIES**

Each vehicle to be considered for the bid will be evaluated in the following weighted categories:

<u>CATEGORY</u>	<u>CATEGORY WEIGHT</u>
Vehicle Dynamics	30 Points
Braking	25 Points
0 - 100 Acceleration	20 Points
Top-Speed	10 Points
Ergonomics/Communications	10 Points
Fuel Economy	5 Points

**SCORING METHODOLOGY**

**Raw Score:** A raw score is developed for each vehicle by testing in each of the above categories. These scores are expressed in terms of seconds, miles-per-hour, feet-per-second<sup>2</sup>, points, and miles-per-gallon.

**Deviation Factor:** The best scoring vehicle in each test category receives a "0" as its deviation factor. The decimal equivalent of the percentage by which each of the other vehicles varies from the best score in that category is that vehicle's deviation factor.

**Weighted Category Score:** Each vehicle's weighted category score is determined by multiplying its deviation factor (as determined above) by the category weight.

**Total Weighted Score:** The total weighted score for each vehicle is derived by adding together the six (6) weighted category scores for that vehicle.

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**3905-0013A PATROL: POLICE - 2-WHEEL DRIVE, 4 DOOR SPORT UTILITY,  
Construction- Body on Frame, Large, (160 + cubic feet volume)**

**MAKE:  
Option Code PPV**

**Chevrolet Police Tahoe – E85 Capable,**

**BID REQUIREMENTS**

Prior to bidding, a car dealer, manufacturer, or representative will be required to furnish a “police package” vehicle for test purposes. All test vehicles shall be **2013** models, which are equipped with the drive train, suspension, and brake components, as well as tires and interior appointments and instrumentation as called for in the specification requirements on all vehicles in this requisition. Submitters of vehicles shall declare in writing any deviations from the specifications at the time of delivery of these test vehicles. Interior and exterior colors shall be the manufacturer’s option. One extra set of engine belts and four (4) wheels and tires shall be provided on test day for each car submitted. Test vehicles submitted shall have undergone sufficient break-in to permit extended periods of maximum acceleration and high speed driving. Brakes on the test car shall have been burnished prior to delivery.

**Test cars shall be delivered to the  
Vehicle and Travel Services  
State Secondary Complex (517) 322-5000  
6951 Crowner Drive, Lansing, Michigan,  
No later than 4 p.m., Thursday, August 30, 2012.**

Each vehicle will be subjected to six competitive and qualification tests. Any vehicle, which fails to meet the minimum standards, found under the Qualification Testing section of this specification will not be considered for this bid.

The State of Michigan shall not be responsible for any damage during the tests or the condition of the vehicle when returned to the submitter after testing. Furthermore, all cars tested will be at the owner’s risk for any damage occurring to the vehicles for any reason. The test vehicles will be tested and driven under the supervision of the Michigan Department of State Police by employees of the department or personnel designated by the department.

Vehicles used for testing will be available for pick up by the submitter no later than one (1) month following completion of testing.

**SPECIFICATION**

**MODEL**

**2013 CURRENT NEW - STANDARD FACTORY EQUIPPED:**

Vehicles to be factory equipped with the following items, unless dealer installation is herein permitted.

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**ADVANCED STABILITY CONTROL SYSTEM**

Vehicle to be equipped with advanced stability control system with yaw sensor. Software should allow driver the ability to drive for performance and emergency law enforcement driving. System to have three settings: full on, traction control off and stability control system completely off.

**AIR BAGS**

Vehicle to be equipped with driver and passenger frontal impact and thoracic air bags, and side curtain air bag system.

**AIR CONDITIONING**

System must be designed to prevent component damage due to high speed driving.

**ALTERNATOR**

Transistorized regulator, minimum no-load curb idle output of 98 amps @ 221 degrees (°) Fahrenheit (F), (at manufacturer's recommended idle speed) maximum in-park idle output of 124 amps @ 221° (F) engine compartment air temperature and a maximum capacity of 160 amps @ 77° (F). Shall be of heavy-duty design, capable of surviving patrol car operation. Output ratings are for typical summer underhood ambient temperatures measured at 221° (F) and not S.A.E rating method.

**ANTENNA**

Vehicle to be equipped with standard AM/FM original equipment antenna embedded in glass. Mast type antenna not acceptable.

**ANTIFREEZE**

To be equipped with antifreeze protection to -35 degrees F minimum.

**BATTERY**

Vehicle to be equipped with a dual battery system. Option Code 6A6

**BODY SIDE MOLDING**

To be deleted.

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**BRAKES**

Vehicle to be equipped with power assisted, four wheel disc anti-lock brake system.

**COOLING SYSTEM**

Vehicle to have maximum size cooling system available, incorporating "coolant recovery" system.

**DIFFERENTIAL**

Heavy-duty, limited slip required. Option Code G80

**ENGINE**

Engine to be the largest cubic inch/liter displacement available in the model of the vehicle submitted, with specific displacement to the manufacturer's option, providing the car will meet or exceed the vehicle performance requirements in the Qualification Testing section of this specification.

**FLOOR MAT**

Heavy-duty full floor mat, front, rear, and cargo area, rubber preferred.

**FUEL SYSTEM**

Fuel system shall be gasoline and/or E85 capable. System shall be able to operate at various percentages of the two fuel mixtures.

**GLASS**

All windows shall be heat absorbing (tinted) type.

**HEADLIGHTS**

Vehicle must have DRL (Daylight Running Lights) headlights deactivated. Equipped with high and low beam quartz-halogen headlights. Option Code 9G8

**HOOD LATCH RELEASE**

To be equipped with inside hood latch release.

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**I**

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**IGNITION SECURITY**

Vehicle must be equipped with an ignition security device. This device allows the user to leave the engine running and doors unlocked and prevent the vehicle from unauthorized use. The device can be FOB sense or key bypass type. If an unauthorized person attempts vehicle movement, the device should shut off the engine or prevent the vehicle from being shifted into gear.

**KEYS**

Eight (8) keys are to be furnished with each car. Vehicle is to be equipped with eight (8) remote entry key fobs. Option Code AMF

**LICENSE PLATE BRACKETS**

Vehicle shall be equipped with manufacturer supplied front and rear license plate brackets. Dealer may install.

**LIGHTS, INTERIOR**

Dome light to be mounted on headliner on longitudinal centerline of vehicle approximately 25" from windshield garnish molding. Dome light to be controlled by moving the instrument light intensity switch to maximum position. Operation to be independent of other lights. Vehicle to be equipped with two, separately switched, map lights, to direct a restricted beam of light to the driver and/or the front seat passenger. Exact mounting position to be approved by the Michigan State Police. No interior light to be illuminated by open doors.

Vehicle to be equipped with an auxiliary light mounted next to the windshield garnish molding in center of vehicle. This auxiliary light to be a dome type light with switch mounted adjacent to or an integral part of the light. Operation of auxiliary light to be independent of standard dome light. May be dealer installed. Must be approved by Michigan State Police.

**LIGHTS, OTHER**

Vehicle also to be equipped with courtesy lights under instrument panel, cargo area light, controlled by a motion switch and lights-on warning system.

**LOCKS**

To be equipped with power door locks. All locks on a car to be keyed alike, different key for each car. Auto Lock/Auto Unlock disable required prior to delivery and must be manufacturer calibration.

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**MIRRORS, REARVIEW (INSIDE)**

Day/night type.

**MIRRORS, SIDEVIEW (OUTSIDE)**

Remote control type, installed on left-hand and right-hand doors. Controls to be within convenient reach of driver. Rectangular design approximate size 5" x 3", minimum viewing area of 15 square inches.

**PAINT COLOR**

To be same color as Dulux 93-032. Paint color code to be indicated on production code plate.

**PILOT INSPECTION**

On any order of 15 or more vehicles and prior to initial delivery of patrol vehicles, the manufacturer shall schedule a pilot model inspection in order to determine compliance with the specifications. The inspection shall be conducted at each point of vehicle assembly. The manufacturer will be responsible for all travel costs incurred for the pilot inspection

**POWER PORTS**

To be located on instrument panel, wired independent of ignition system.

**PREDELIVERY SERVICE**

Vehicles to undergo predelivery service as provided in the State of Michigan Specification Book. May be completed by dealer.

**RADIO**

Radio to be standard equipment model.

**RADIO NOISE SUPPRESSION**

Vehicle shall be equipped with standard AM and police radio noise suppression package, including any optional grounding straps. The vehicle shall not interfere with signals received or transmitted by the mobile police radio system, nor shall the vehicle be affected by the operation of a police mobile transmitter. (Standard on PPV)

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**RADIO SPEAKERS**

A permanent magnet speaker(s), either oval or round, to be mounted in the speaker opening(s) provided on the dash/door of the unit. Speaker(s) to be of a quality equal to automotive grade. Speaker leads connected to the speaker terminals, not grounded, shall extend three feet beyond the lower edge of the center of the dashboard. (Dealer may install wiring extensions) Option Code: WX7

Two/Four Speaker Installation: Speakers to be located on left and right sides of the dashboard (preferred location) or positioned in the forward portion of the left and right hand front doors. Four-speaker system to include two additional speakers installed in the rear of the vehicle. Voice coil impedance of all speakers combined shall equal 8 ohms, power handling capacity 10 watts, minimum.

**REAR WINDOW DEFOGGER**

Electrical grid type. Control to be within convenient reach of driver, control switch to be clearly marked as to function.

**SEAT ASSEMBLY, FRONT**

Bucket seat type, 45/45 or 40/40, individually adjustable. The drivers seat only to be 6-way power. Both front seats to have heavy-duty interior construction designed for rugged police use; comfortable foam padded seat cushions and backs with seat bolster anti-wear protection for firearm and other police equipment preferred. A minimum width of ten (10) inches, from the floor to the top of the seat cushion is required between the bucket seats to permit the installation of electronic radio equipment.

**SPARE TIRE**

Full size spare tire and wheel to be mounted inside or under vehicle.

**SPECIAL ENGINEERING, POLICE PACKAGE**

Vehicle to be equipped with the manufacturer's engineered Police Package, capable of emergency high speed vehicle operations. Option Code PPV

**SPEEDOMETER**

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Shall be calibrated to within  $\pm 3$  mph accuracy, 0 - 140 mph scale minimum. Analog type scale graduations to be linear and of 1 or 2 mph increments. Digital type speedometers shall be in 1-mph increments.

Mich. Spec. # 3905-0013A

**SPOTLIGHTS**

Unity ABS plastic spot lamps with LED lamp assembly (Whelen P46SLC) to be mounted on the left-hand and right-hand "A" pillar. Left and right spotlights to be wired independent of ignition, individually fused with up to 15-amp capacity. Spotlight fuse shall be readily accessible, with location in the fuse panel preferred. Spotlights shall be factory installed if offered by the vehicle manufacturer. The vehicle manufacturer shall authorize any non-factory installation. Installation to be approved by Michigan State Police.

**STEERING**

Manufacturer to provide power steering, which affords maximum "firm feel" and fast return characteristics, designed for high speed emergency type driving.

**STEERING WHEEL**

Tilt type steering wheel required. Round with anti-slip surface.

**SUSPENSION SYSTEM, POLICE**

To include heavy-duty springs, front and rear, in combination with heavy-duty shock absorbers, and front and rear heavy-duty stabilizer bars.

**TIRES**

Tires, including spare, to be police pursuit radials, per State of Michigan specification 5260-S1. Speed rating to meet or exceed vehicle performance capabilities. Tire to be approved by Michigan State Police. **Goodyear Tires preferred, with an appropriate speed rated Severe Snow Tire available.**

**TOOLS**

Wheel wrench and jack.

**TOWING PACKAGE**

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Vehicle to be equipped with a trailer towing package and a Class III frame mounted receiver hitch. May be dealer installed.

Mich. Spec. # 3905-0013A

**TRANSMISSION**

To be 6 speed, fully automatic, heaviest duty available. Must incorporate manual or electronic low gear lockout to prevent manual shifting. Transmission selector shall be shortest design available to minimize intrusion of the equipment mounting area.

**TRIM**

Front and rear bumper valances (fascias), painted to be color coordinated. Color to be approved by Michigan State Police.

**UPHOLSTERY**

Seats to be upholstered in heavy-duty cloth with anti wear materials for firearm. Combination of heavy-duty cloth and vinyl. Dark blue preferred medium or dark gray acceptable.

**WHEELS AND COVERS**

To be of heavy-duty construction, designed for police use, wheels to be black. Hubcaps preferred, full wheel covers acceptable.

**WINDOWS, POWER**

Side windows to be electrically powered with each door having its own window control. The driver's door to have controls for all windows. Rear door power window switches to be deactivated. Rear power windows to be operable from driver's position only.

**WINDSHIELD WIPERS/WASHERS**

Multiple speed electric, to include intermittent feature. Vehicle also to be equipped with rear window wiper and washer if single rear door or tailgate is used. High speed anti lift characteristics required.

**NOTE: No dealer advertising to be on vehicles.**

**QUALIFICATION TESTING**

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

In order to qualify for bidding, all vehicles submitted by manufacturers must meet each of the following performance standards:

Mich. Spec. # 3905-0013A

**1. ACCELERATION**

**Each vehicle will make 4 acceleration runs, and the times for the 4 runs will be averaged.**

- 0 - 60 MPH – 9.0 seconds or less**
- 0 - 80 MPH – 14.9 seconds or less**
- 0 -100 MPH - 24.6 seconds or less**

**2. TOP SPEED**

**A speed of 110 mph must be attained within a distance of 4,838 feet and 120 mph within a distance of 8,985 feet. For purposes to be explained in the test booklet, the vehicle will, after attaining the 120-mph minimum is accelerated to the maximum speed attainable within 14 miles.**

**3. BRAKE TEST**

- e) (Minimum Universal Burnish Procedure) Prior to being transported to the test sites, all test vehicles will have the brakes burnished by MSP staff performing 10 controlled impending skid (threshold) stops from 60 mph.
- f) **Phase 1** - The test vehicle will make ten (10) controlled impending skid (threshold) measured stops from 60 mph.
- g) **Phase2** - After a 3.2 mile cool down performed at 60 mph the entire sequence will be repeated. The exact initial velocity at the beginning of each 60 - 0 mph decelerations, and the exact distance required to make each stop will be recorded by electronic speed and distance meters.
- h) The twenty (20) measured stops will be used to calculate the average deceleration rate, which is the vehicle's score for this test. Evidence of brake fade and ability of the vehicle to stop in a straight line within its own lane will be evaluated. A minimum of 25.79 ft/sec<sup>2</sup> average must be attained from phases (a) and (b) of 20 controlled impending skid (threshold) stops.

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DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

Mich. Spec. # 3905-0013A

**COMPETITIVE TEST CATEGORIES**

Each vehicle to be considered for the bid will be evaluated in the following weighted categories:

<u>CATEGORY</u>	<u>CATEGORY WEIGHT</u>
Vehicle Dynamics	30 Points
0 - 100 Acceleration	20 Points
Braking	20 Points
Top-Speed	15 Points
Ergonomics/Communications	10 Points
Fuel Economy	5 Points

**SCORING METHODOLOGY**

**Raw Score:** A raw score is developed for each vehicle by testing in each of the above categories. These scores are expressed in terms of seconds, miles-per-hour, feet-per-second<sup>2</sup>, points, and miles-per-gallon.

**Deviation Factor:** The best scoring vehicle in each test category receives a “0” as its deviation factor. The decimal equivalent of the percentage by which each of the other vehicles varies from the best score in that category is that vehicle’s deviation factor.

**Weighted Category Score:** Each vehicle’s weighted category score is determined by multiplying its deviation factor (as determined above) by the category weight.

**Total Weighted Score:** The total weighted score for each vehicle is derived by adding together the six (6) weighted category scores for that vehicle.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3905-0013B POLICE CAR: PATROL, 4-Door Utility Vehicle, Front Wheel Drive,  
Construction- Monocoque (Unitized) type, Large  
(120+ cubic feet volume)**

**MAKE:** Ford Police Interceptor – E85 Capable

**BID REQUIREMENTS**

Prior to bidding, a car dealer, manufacturer, or representative will be required to furnish a “police package” vehicle for test purposes. All test vehicles shall be **2012** models, which are equipped with the drive train, suspension, and brake components, as well as tires and interior appointments and instrumentation as called for in the specification requirements on all vehicles in this requisition.

Submitters of vehicles shall declare in writing any deviations from the specifications at the time of delivery of these test vehicles. Interior and exterior colors shall be the manufacturer’s option. One extra set of engine belts and four (4) wheels and tires shall be provided on test day for each car submitted. Test vehicles submitted shall have undergone sufficient break-in to permit extended periods of maximum acceleration and high speed driving. Brakes on the test car shall have been burnished prior to delivery.

**Test cars shall be delivered to the Vehicle and Travel Services,  
State Secondary Complex, (517) 322-5000  
6951 Crowner Drive, Lansing, Michigan, 48913  
no later than 4 p.m., Tuesday, September 6, 2011.**

Each vehicle will be subjected to six competitive and qualification tests. Any vehicle which fails to meet the minimum standards found under the Qualification Testing section of this specification will not be considered for this bid.

The State of Michigan shall not be responsible for any damage during the tests or the condition of the vehicle when returned to the submitter after testing. Furthermore, all cars tested will be at the owner’s risk for any damage occurring to the vehicles for any reason. The test vehicles will be tested and driven under the supervision of the Michigan Department of State Police by employees of the department or personnel designated by the department.

Vehicles used for testing will be available for pick up by the submitter no later than one (1) month following completion of testing.

**SCORING AND BID ADJUSTMENT FORMULA**

The vendor’s bid for each vehicle which passes the qualification tests will be artificially adjusted, based on the scoring and bid adjustment methodologies described at the conclusion of this specification. The vehicle to be purchased will be determined by the adjusted low bid price. Purchase price will be that quoted by the vendor.

**SPECIFICATION**

**MODEL**

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

Mich. Spec. # 3905-0013B

**2012 CURRENT NEW - STANDARD FACTORY EQUIPPED:**

Vehicles to be factory equipped with the following items, unless dealer installation is herein permitted.

**AIR BAGS**

Vehicle to be equipped with driver frontal-impact airbag, passenger frontal impact air bag, side-impact curtain roof rail airbags, and thoracic seat airbags.

**AIR CONDITIONING**

System must be designed to prevent component damage due to high speed driving.

**ALTERNATOR**

Transistorized regulator, minimum curb idle output of 110 amps at 221 degrees Fahrenheit, (at manufacturer's recommended idle speed). Shall be of heavy-duty design, capable of surviving patrol car operation. Maximum output shall be at least 130 amps at 221 degrees Fahrenheit. Output ratings are for typical summer underhood ambient temperatures measured at 221 degrees Fahrenheit and not S.A.E rating method.

**ANTENNA**

Vehicle to be equipped with standard AM/FM original equipment antenna embedded in glass. Mast type antenna not acceptable.

**ANTIFREEZE**

To be equipped with antifreeze protection to -35 degrees F minimum.

**BATTERY**

12 volt, minimum 720 cold cranking amps.

**BODY SIDE MOLDING**

Vehicle to be equipped with body side molding. Molding on front doors to be deleted, preferred. No holes to be on doors for moldings.

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DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

Mich. Spec. # 3905-0013B

**BRAKES**

Vehicle to be equipped with power assisted, four wheel disc anti-lock brake system.

**POWER PORT(S) PREFERRED**

To be located on instrument panel, wired independent of ignition system.

**COOLING SYSTEM**

Vehicle to have maximum size cooling system available, incorporating "coolant recovery" system.

**DIFFERENTIAL**

Heavy duty, final drive assembly.

**ENGINE**

Engine to be the largest cubic inch/liter displacement available in the model of the vehicle submitted, with specific displacement to the manufacturer's option, providing the car will meet or exceed the vehicle performance requirements in the Qualification Testing section of this specification.

**FUEL SYSTEM**

Fuel system shall be gasoline and/or E85 capable. System shall be able to operate at various percentages of the two fuel mixtures.

**FLOOR MAT**

Full floor mat, heavy-duty rubber or vinyl, front and rear.

**GLASS**

All windows shall be heat absorbing (tinted) type.

**HEADLIGHTS**

To be equipped with high and low beam quartz-halogen headlights. If vehicle is equipped with Daylight Running Lights, it must incorporate a means (switch system) to make the lights inoperable at drivers' discretion.

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DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

Mich. Spec. # 3905-0013B

**HOOD LATCH RELEASE**

To be equipped with inside hood latch release.

**KEYS**

Three (3) keys to be furnished with each car. Third key may be dealer supplied on original equipment blank only. Other key blanks may be generic copies.

**LICENSE PLATE BRACKETS**

Vehicle shall be equipped with manufacturer supplied front and rear license plate brackets. Dealer may install.

**LIGHTS, INTERIOR**

Dome light to be mounted on headliner on longitudinal centerline of vehicle approximately 25" from windshield garnish molding. Operation to be independent of other lights. Vehicle to be equipped with two, separately switched, map lights, to direct a restricted beam of light to the driver and/or the front seat passenger. Exact mounting position to be approved by the Michigan State Police. No interior light to be illuminated by open doors.

**LIGHT, ENGINE & TRUNK COMPARTMENT**

To be equipped with an engine and trunk compartment light controlled by body computer or ball bearing switch.

**LOCKS**

To be equipped with power door locks. All locks on a car to be keyed alike, different key for each car.

**MIRRORS, REARVIEW (INSIDE)**

Day/night type.

**MIRRORS, SIDEVIEW (OUTSIDE)**

Remote control type, installed on left-hand and right-hand doors. Controls to be within convenient reach of driver. Rectangular design approximate size 5" x 3"; minimum viewing area of 15 square inches.

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DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
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**PAINT COLOR**

To be same color as Dulux 93-032. Paint color code to be indicated on production code plate.

**PILOT INSPECTION**

On any order of 15 vehicles or more and prior to initial delivery of police vehicles, the manufacturer shall schedule a pilot model inspection in order to determine compliance with the specifications. The inspection shall be conducted at each point of vehicle assembly. The manufacturer will be responsible for all travel costs incurred for the pilot inspection.

**PREDELIVERY SERVICE**

Vehicles to undergo predelivery service as provided in the State of Michigan Specification Book. May be completed by dealer.

**RADIO**

Radio to be standard equipment model.

**RADIO NOISE SUPPRESSION**

Vehicle to be equipped with standard AM and police radio noise suppression package, to include any optional grounding straps. The vehicle shall not interfere with signals received or transmitted by the mobile police radio system, nor shall the vehicle be affected by the operation of a police mobile transmitter.

**RADIO SPEAKER(S)**

A permanent magnet speaker(s), either oval or round, to be mounted in the speaker opening(s) provided on the dash/door of the unit. Speaker(s) to be of a quality equal to automotive grade. Speaker leads connected to the speaker terminals, not grounded, shall extend three feet beyond the lower edge of the center of the dashboard, (dealer may install wiring extensions).

Two/Four Speaker Installation: Speakers to be located on left and right sides of the dashboard (preferred location) or positioned in the forward portion of the left and right hand front doors. Four speaker system to include two additional speakers installed on rear deck shelf. It is preferred voice coil impedance of all speakers combined shall equal 8 ohms, power handling capacity 10 watts, minimum.

**REAR WINDOW DEFOGGER**

Electrical grid type. Control to be within convenient reach of driver, control switch to be clearly marked as to function.

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**ROOF TOP REINFORCEMENT**

Preferred, install a steel plate at least 2.25 mm thick x 10" wide to the underside of top, centered on the longitudinal center line of the roof panel. Plate is to extend from the windshield header to the first top cross-member support and is to be welded at both ends. Plate is to hold roof skin in its normal position, not allowing skin to deflect if pressure is applied to top surface. The purpose of the plate is to support the overhead emergency light. (or) Roof top membrane support within underside of top, centered on the longitudinal centerline of the roof panel. Membrane support is to hold roof skin in its normal position, not allowing skin to deflect if pressure is applied to top surface. The purpose of the membrane is to support the overhead emergency light.

**SEAT ASSEMBLY, FRONT**

Bucket seat type, 45/45 or 40/40, individually adjustable. The drivers seat only to be 4-way power minimum (6 or 8 way power preferred). Both seats to have heavy-duty interior construction designed for rugged police use, comfortable foam-padded seat cushions and backs. To permit the installation of radio equipment, a minimum width of eight (8) inches is required between the bucket seats. Floor mounted shift lever with console not permitted.

**SHELF**

Mounted in trunk, a tray/shelf to secure radios and other equipment. May be dealer installed.

**SPARE TIRE**

Full size spare tire and wheel to be mounted below cargo floor.

**SPECIAL ENGINEERING, POLICE PACKAGE**

Vehicle to be equipped with the manufacturer's engineered Police Package, capable of emergency high speed vehicle operations.

**SPEEDOMETER**

Shall be calibrated to within  $\pm 3$  mph accuracy, 0 - 140 mph scale minimum. Analog type scale graduations are to be linear and of 1 or 2 mph increments. It may be supplemented or replaced by a digital type speedometer to be in 1 mph increments.

**SPOTLIGHTS**

Unity ABS plastic spot lamps with LED lamp assembly (Whelen P46SLC) to be mounted on the left-hand and right-hand "A" pillar. Left and right spotlights are to be wired independent of ignition,

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DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
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individually fused with up to 15 amp capacity. Spotlight fuses shall be readily accessible to the driver, with location in the fuse panel preferred. Spotlights shall be factory installed if offered by the vehicle manufacturer. Any non-factory installation shall be authorized by the vehicle manufacturer. Installation is to be approved by Michigan State Police.

**STEERING**

Power steering, manufacturer to provide steering gear which affords maximum "firm feel" and fast return characteristics designed for high speed pursuit type driving.

**STEERING WHEEL**

Tilt type steering wheel required. Round with anti-slip surface.

**SUSPENSION SYSTEM, POLICE**

To include heavy-duty springs, front and rear, in combination with heavy-duty shock absorbers, and front and rear heavy-duty stabilizer bars.

**TECHNICAL SERVICE BULLETINS**

Technical Service Bulletins covering vehicles purchased under this specification must remain available for up to 6 years.

**TIRES**

Tires (including spare) preferred to be Goodyear, police pursuit radials. Speed rating to meet or exceed vehicle performance capabilities. Tire to be approved by Michigan State Police.

**TOOLS**

Wheel wrench and jack.

**TRANSMISSION**

Is to be 5 or 6 speed, fully automatic, heaviest duty available. It must incorporate manual or electronic low gear lockout to prevent manual shifting. Transmission selector lever shall be shortest design available, to minimize intrusion of the equipment mounting area.

**TRIM**

Front and rear bumper valances (fascias) to be color coordinated. Color to be approved by Michigan State Police.

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DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
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Mich. Spec. # 3905-0013B

**TRUNK MAT**

To be full floor.

**TRUNK RELEASE, REMOTE**

To be equipped with electrically operated remote control trunk release. Control to be within convenient reach of the driver, located on the right side of the steering column (in glove box not acceptable), centerline of dash board preferred. Electric system wired independently of ignition switch (battery direct). Dealer may relocate control and/or alter factory wiring to conform with this requirement.

**UPHOLSTERY, FRONT & REAR**

Front seats to be upholstered in heavy-duty cloth or combination of heavy-duty cloth and vinyl (blue is preferred or dark charcoal color acceptable). All vinyl not- acceptable. Rear bench seat to be upholstered in all vinyl.

**WHEELS AND COVERS**

To be heavy-duty construction, designed for police use, black in color. It is preferred wheels be equipped with hubcaps. Full wheel covers not acceptable.

**WINDOWS, POWER**

Side windows to be electrically powered with each door having its own window control. The driver's door is to have controls for all windows. Rear door power window switches to be deactivated. Rear power windows to be operable from driver's position only.

**WINDSHIELD WIPERS/WASHERS**

Multiple speed electric, to include intermittent feature.

**WIRING, SPECIAL**

Vehicle to include a 30-amp circuit breaker equipped battery feed auxiliary wire, and 30-amp circuit breaker equipped ignition feed auxiliary wire.

**NOTE: No dealer advertising to be on vehicles.**

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DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

Mich. Spec. # 3905-0013B

**QUALIFICATION TESTING**

In order to qualify for bidding, all vehicles submitted by manufacturers must meet each of the following performance standards:

**1. ACCELERATION**

**0 - 60 MPH - 9.0 seconds or less**  
**0 - 80 MPH - 14.9 seconds or less**  
**0 - 100 MPH - 24.6 seconds or less**

Each vehicle will make 4 acceleration runs, and the times for the 4 runs will be averaged.

**2. TOP SPEED**

**A speed of 110 mph must be attained within a distance of 4,838 feet and 120 mph within a distance of 8,985 feet. For purposes to be explained in the test booklet, the vehicle will, after attaining the 120 mph minimum be accelerated to the maximum speed attainable within 14 miles.**

**3. BRAKE TEST**

- a) (Minimum Universal Burnish Procedure) Prior to being transported to the test sites, all test vehicles will have the brakes burnished by MSP staff performing 10 controlled impending skid (threshold) stops from 60 mph.
- b) **Phase 1** - The test vehicle will make ten (10) controlled impending skid (threshold) measured stops from 60 mph.
- c) **Phase 2** - After a 3.2 mile cool down performed at 60 mph the entire sequence will be repeated. The exact initial velocity at the beginning of each 60 - 0 mph decelerations, and the exact distance required to make each stop will be recorded by electronic speed and distance meters.
- d) The twenty (20) measured stops will be used to calculate the average deceleration rate, which is the vehicle's score for this test. Evidence of brake fade and ability of the vehicle to stop in a straight line within its own lane will be evaluated. A minimum of 25.79 ft/sec<sup>2</sup> average must be attained from phases (a) and (b) of 20 controlled impending skid (threshold) stops.

**COMPETITIVE TEST CATEGORIES**

Each vehicle to be considered for the bid will be evaluated in the following weighted categories:

<u>CATEGORY</u>	<u>CATEGORY WEIGHT</u>
Vehicle Dynamics	30 Points
Braking	25 Points
0 - 100 Acceleration	20 Points

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DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

Top-Speed	10 Points
Ergonomics/Communications	10 Points
Fuel Economy	5 Points

Mich. Spec. # 3905-0013B

**SCORING METHODOLOGY**

**Raw Score:** A raw score is developed for each vehicle by testing in each of the above categories. These scores are expressed in terms of seconds, miles-per-hour, feet-per-second<sup>2</sup>, points, and miles-per-gallon.

**Deviation Factor:** The best scoring vehicle in each test category receives a “0” as its deviation factor. The decimal equivalent of the percentage by which each of the other vehicles varies from the best score in that category is that vehicle’s deviation factor.

**Weighted Category Score:** Each vehicle’s weighted category score is determined by multiplying its deviation factor (as determined above) by the category weight.

**Total Weighted Score:** The total weighted score for each vehicle is derived by adding together the six (6) weighted category scores for that vehicle.

**BID ADJUSTMENT METHODOLOGY**

**Bid Adjustment Figure:** The bid adjustment figure will be one percent (1%) of the lowest bid price received.

**Actual Dollar Adjustment:** In order to determine the actual dollar amount by which each vehicle’s bid price will be adjusted, the bid adjustment figure is multiplied by that vehicle’s total weighted score.

**Adjusted Bid Price:** The actual dollar adjustment amount arrived at for each vehicle is then added to that vehicle’s actual bid price. The resultant figure is the adjusted bid price upon which the purchasing decision will be based.

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DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3905-0014A PATROL: POLICE SPECIAL SERVICE VEHICLE, LARGE 4 DOOR  
SPORT UTILITY 2-WHEEL DRIVE, ALTERNATE FUEL**  
(Payload-900 lbs., min.)

MODEL-2011 CURRENT

**PRELIMINARY REQUIREMENTS:**

Option Code SSV  
Transmission: Automatic

TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volt, 500 CCA, minimum.  
Bumper-Rear, Mfg. Std.  
Defogger-rear window.  
Spare tire and wheel. Full Size. Mfg. Std. mounting.  
Wrench-wheel.

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DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3905-0015A PATROL: POLICE SPECIAL SERVICE VEHICLE – LARGE 4 DOOR  
SPORT UTILITY 4-WHEEL DRIVE, ALTERNATE FUEL**  
(Payload-900 lbs., min.)

MODEL-2011 CURRENT

**PRELIMINARY REQUIREMENTS:**

Option Code SSV  
Transmission: Automatic

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volt, 500 CCA, minimum.  
Bumper-Rear, Mfg. Std.  
Defogger-rear window.  
Spare tire and wheel. Full Size. Mfg. Std. mounting.  
Wrench-wheel.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3905-0016 POLICE CAR: PATROL, 4-Door Utility Vehicle, All Wheel Drive,  
Construction- Monocoque (Unitized) type, Large  
(120+ cubic feet volume)**

**MAKE:** Ford Police Interceptor – E85 Capable

**BID REQUIREMENTS**

Prior to bidding, a car dealer, manufacturer, or representative will be required to furnish a “police package” vehicle for test purposes. All test vehicles shall be **2012** models, which are equipped with the drive train, suspension, and brake components, as well as tires and interior appointments and instrumentation as called for in the specification requirements on all vehicles in this requisition.

Submitters of vehicles shall declare in writing any deviations from the specifications at the time of delivery of these test vehicles. Interior and exterior colors shall be the manufacturer’s option. One extra set of engine belts and four (4) wheels and tires shall be provided on test day for each car submitted. Test vehicles submitted shall have undergone sufficient break-in to permit extended periods of maximum acceleration and high speed driving. Brakes on the test car shall have been burnished prior to delivery.

**Test cars shall be delivered to the Vehicle and Travel Services,  
State Secondary Complex, (517) 322-5000  
6951 Crowner Drive, Lansing, Michigan, 48913  
no later than 4 p.m., Tuesday, September 6, 2011.**

Each vehicle will be subjected to six competitive and qualification tests. Any vehicle which fails to meet the minimum standards found under the Qualification Testing section of this specification will not be considered for this bid.

The State of Michigan shall not be responsible for any damage during the tests or the condition of the vehicle when returned to the submitter after testing. Furthermore, all cars tested will be at the owner’s risk for any damage occurring to the vehicles for any reason. The test vehicles will be tested and driven under the supervision of the Michigan Department of State Police by employees of the department or personnel designated by the department.

Vehicles used for testing will be available for pick up by the submitter no later than one (1) month following completion of testing.

**SCORING AND BID ADJUSTMENT FORMULA**

The vendor’s bid for each vehicle which passes the qualification tests will be artificially adjusted, based on the scoring and bid adjustment methodologies described at the conclusion of this specification. The vehicle to be purchased will be determined by the adjusted low bid price. Purchase price will be that quoted by the vendor.

**SPECIFICATION**

**MODEL**

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

Mich. Spec. # 3905-0016

**2012 CURRENT NEW - STANDARD FACTORY EQUIPPED:**

Vehicles to be factory equipped with the following items, unless dealer installation is herein permitted.

**AIR BAGS**

Vehicle to be equipped with driver frontal-impact airbag, passenger frontal impact air bag, side-impact curtain roof rail airbags, and thoracic seat airbags.

**AIR CONDITIONING**

System must be designed to prevent component damage due to high speed driving.

**ALTERNATOR**

Transistorized regulator, minimum curb idle output of 110 amps at 221 degrees Fahrenheit, (at manufacturer's recommended idle speed). Shall be of heavy-duty design, capable of surviving patrol car operation. Maximum output shall be at least 130 amps at 221 degrees Fahrenheit. Output ratings are for typical summer underhood ambient temperatures measured at 221 degrees Fahrenheit and not S.A.E rating method.

**ANTENNA**

Vehicle to be equipped with standard AM/FM original equipment antenna embedded in glass. Mast type antenna not acceptable.

**ANTIFREEZE**

To be equipped with antifreeze protection to -35 degrees F minimum.

**BATTERY**

12 volt, minimum 720 cold cranking amps.

**BODY SIDE MOLDING**

Vehicle to be equipped with body side molding. Molding on front doors to be deleted, preferred. No holes to be on doors for moldings.

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DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

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**BRAKES**

Vehicle to be equipped with power assisted, four wheel disc anti-lock brake system.

**POWER PORT(S) PREFERRED**

To be located on instrument panel, wired independent of ignition system.

**COOLING SYSTEM**

Vehicle to have maximum size cooling system available, incorporating "coolant recovery" system.

**DIFFERENTIAL**

Heavy duty, final drive assembly.

**ENGINE**

Engine to be the largest cubic inch/liter displacement available in the model of the vehicle submitted, with specific displacement to the manufacturer's option, providing the car will meet or exceed the vehicle performance requirements in the Qualification Testing section of this specification.

**FUEL SYSTEM**

Fuel system shall be gasoline and/or E85 capable. System shall be able to operate at various percentages of the two fuel mixtures.

**FLOOR MAT**

Full floor mat, heavy-duty rubber or vinyl, front and rear.

**GLASS**

All windows shall be heat absorbing (tinted) type.

**HEADLIGHTS**

To be equipped with high and low beam quartz-halogen headlights. If vehicle is equipped with Daylight Running Lights, it must incorporate a means (switch system) to make the lights inoperable at drivers' discretion.

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DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

Mich. Spec. # 3905-0016

**HOOD LATCH RELEASE**

To be equipped with inside hood latch release.

**KEYS**

Three (3) keys to be furnished with each car. Third key may be dealer supplied on original equipment blank only. Other key blanks may be generic copies.

**LICENSE PLATE BRACKETS**

Vehicle shall be equipped with manufacturer supplied front and rear license plate brackets. Dealer may install.

**LIGHTS, INTERIOR**

Dome light to be mounted on headliner on longitudinal centerline of vehicle approximately 25" from windshield garnish molding. Operation to be independent of other lights. Vehicle to be equipped with two, separately switched, map lights, to direct a restricted beam of light to the driver and/or the front seat passenger. Exact mounting position to be approved by the Michigan State Police. No interior light to be illuminated by open doors.

**LIGHT, ENGINE & TRUNK COMPARTMENT**

To be equipped with an engine and trunk compartment light controlled by body computer or ball bearing switch.

**LOCKS**

To be equipped with power door locks. All locks on a car to be keyed alike, different key for each car.

**MIRRORS, REARVIEW (INSIDE)**

Day/night type.

**MIRRORS, SIDEVIEW (OUTSIDE)**

Remote control type, installed on left-hand and right-hand doors. Controls to be within convenient reach of driver. Rectangular design approximate size 5" x 3"; minimum viewing area of 15 square inches.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

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**PAINT COLOR**

To be same color as Dulux 93-032. Paint color code to be indicated on production code plate.

**PILOT INSPECTION**

On any order of 15 vehicles or more and prior to initial delivery of police vehicles, the manufacturer shall schedule a pilot model inspection in order to determine compliance with the specifications. The inspection shall be conducted at each point of vehicle assembly. The manufacturer will be responsible for all travel costs incurred for the pilot inspection.

**PREDELIVERY SERVICE**

Vehicles to undergo predelivery service as provided in the State of Michigan Specification Book. May be completed by dealer.

**RADIO**

Radio to be standard equipment model.

**RADIO NOISE SUPPRESSION**

Vehicle to be equipped with standard AM and police radio noise suppression package, to include any optional grounding straps. The vehicle shall not interfere with signals received or transmitted by the mobile police radio system, nor shall the vehicle be affected by the operation of a police mobile transmitter.

**RADIO SPEAKER(S)**

A permanent magnet speaker(s), either oval or round, to be mounted in the speaker opening(s) provided on the dash/door of the unit. Speaker(s) to be of a quality equal to automotive grade. Speaker leads connected to the speaker terminals, not grounded, shall extend three feet beyond the lower edge of the center of the dashboard, (dealer may install wiring extensions).

Two/Four Speaker Installation: Speakers to be located on left and right sides of the dashboard (preferred location) or positioned in the forward portion of the left and right hand front doors. Four speaker system to include two additional speakers installed on rear deck shelf. It is preferred voice coil impedance of all speakers combined shall equal 8 ohms, power handling capacity 10 watts, minimum.

**REAR WINDOW DEFOGGER**

Electrical grid type. Control to be within convenient reach of driver, control switch to be clearly marked as to function.

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**ROOF TOP REINFORCEMENT**

Preferred, install a steel plate at least 2.25 mm thick x 10" wide to the underside of top, centered on the longitudinal center line of the roof panel. Plate is to extend from the windshield header to the first top cross-member support and is to be welded at both ends. Plate is to hold roof skin in its normal position, not allowing skin to deflect if pressure is applied to top surface. The purpose of the plate is to support the overhead emergency light. (or) Roof top membrane support within underside of top, centered on the longitudinal centerline of the roof panel. Membrane support is to hold roof skin in its normal position, not allowing skin to deflect if pressure is applied to top surface. The purpose of the membrane is to support the overhead emergency light.

**SEAT ASSEMBLY, FRONT**

Bucket seat type, 45/45 or 40/40, individually adjustable. The drivers seat only to be 4-way power minimum (6 or 8 way power preferred). Both seats to have heavy-duty interior construction designed for rugged police use, comfortable foam-padded seat cushions and backs. To permit the installation of radio equipment, a minimum width of eight (8) inches is required between the bucket seats. Floor mounted shift lever with console not permitted.

**SHELF**

Mounted in trunk, a tray/shelf to secure radios and other equipment. May be dealer installed.

**SPARE TIRE**

Full size spare tire and wheel to be mounted under the cargo floor.

**SPECIAL ENGINEERING, POLICE PACKAGE**

Vehicle to be equipped with the manufacturer's engineered Police Package, capable of emergency high speed vehicle operations.

**SPEEDOMETER**

Shall be calibrated to within  $\pm 3$  mph accuracy, 0 - 140 mph scale minimum. Analog type scale graduations are to be linear and of 1 or 2 mph increments. It may be supplemented or replaced by a digital type speedometer to be in 1 mph increments.

**SPOTLIGHTS**

Unity ABS plastic spot lamps with LED lamp assembly (Whelen P46SLC) to be mounted on the left-hand and right-hand "A" pillar. Left and right spotlights are to be wired independent of ignition,

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individually fused with up to 15 amp capacity. Spotlight fuses shall be readily accessible to the driver, with location in the fuse panel preferred. Spotlights shall be factory installed if offered by the vehicle manufacturer. Any non-factory installation shall be authorized by the vehicle manufacturer. Installation is to be approved by Michigan State Police.

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**STEERING**

Power steering, manufacturer to provide steering gear which affords maximum "firm feel" and fast return characteristics designed for high speed pursuit type driving.

**STEERING WHEEL**

Tilt type steering wheel required. Round with anti-slip surface.

**SUSPENSION SYSTEM, POLICE**

To include heavy-duty springs, front and rear, in combination with heavy-duty shock absorbers, and front and rear heavy-duty stabilizer bars.

**TECHNICAL SERVICE BULLETINS**

Technical Service Bulletins covering vehicles purchased under this specification must remain available for up to 6 years.

**TIRES**

Tires (including spare) preferred to be Goodyear, police pursuit radials. Speed rating to meet or exceed vehicle performance capabilities. Tire to be approved by Michigan State Police.

**TOOLS**

Wheel wrench and jack.

**TRANSMISSION**

Is to be 5 or 6 speed, fully automatic, heaviest duty available. It must incorporate manual or electronic low gear lockout to prevent manual shifting. Transmission selector lever shall be shortest design available, to minimize intrusion of the equipment mounting area.

**TRIM**

Front and rear bumper valances (fascias) to be color coordinated. Color to be approved by Michigan State Police.

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**TRUNK MAT**

To be full floor.

**TRUNK RELEASE, REMOTE**

To be equipped with electrically operated remote control trunk release. Control to be within convenient reach of the driver, located on the right side of the steering column (in glove box not acceptable), centerline of dash board preferred. Electric system wired independently of ignition switch (battery direct). Dealer may relocate control and/or alter factory wiring to conform with this requirement.

**UPHOLSTERY, FRONT & REAR**

Front seats to be upholstered in heavy-duty cloth or combination of heavy-duty cloth and vinyl (blue is preferred or dark charcoal color acceptable). All vinyl not- acceptable. Rear bench seat to be upholstered in all vinyl.

**WHEELS AND COVERS**

To be heavy-duty construction, designed for police use, black in color. It is preferred wheels be equipped with hubcaps. Full wheel covers not acceptable.

**WINDOWS, POWER**

Side windows to be electrically powered with each door having its own window control. The driver's door is to have controls for all windows. Rear door power window switches to be deactivated. Rear power windows to be operable from driver's position only.

**WINDSHIELD WIPERS/WASHERS**

Multiple speed electric, to include intermittent feature.

**WIRING, SPECIAL**

Vehicle to include a 30-amp circuit breaker equipped battery feed auxiliary wire, and 30-amp circuit breaker equipped ignition feed auxiliary wire.

**NOTE: No dealer advertising to be on vehicles.**

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**QUALIFICATION TESTING**

In order to qualify for bidding, all vehicles submitted by manufacturers must meet each of the following performance standards:

**1. ACCELERATION**

**0 - 60 MPH - 9.0 seconds or less**  
**0 - 80 MPH - 14.9 seconds or less**  
**0 - 100 MPH - 24.6 seconds or less**

Each vehicle will make 4 acceleration runs, and the times for the 4 runs will be averaged.

**2. TOP SPEED**

**A speed of 110 mph must be attained within a distance of 4,838 feet and 120 mph within a distance of 8,985 feet. For purposes to be explained in the test booklet, the vehicle will, after attaining the 120 mph minimum be accelerated to the maximum speed attainable within 14 miles.**

**3. BRAKE TEST**

- a) (Minimum Universal Burnish Procedure) Prior to being transported to the test sites, all test vehicles will have the brakes burnished by MSP staff performing 10 controlled impending skid (threshold) stops from 60 mph.
- b) **Phase 1** - The test vehicle will make ten (10) controlled impending skid (threshold) measured stops from 60 mph.
- c) **Phase2** - After a 3.2 mile cool down performed at 60 mph the entire sequence will be repeated. The exact initial velocity at the beginning of each 60 - 0 mph decelerations, and the exact distance required to make each stop will be recorded by electronic speed and distance meters.
- d) The twenty (20) measured stops will be used to calculate the average deceleration rate, which is the vehicle's score for this test. Evidence of brake fade and ability of the vehicle to stop in a straight line within its own lane will be evaluated. A minimum of 25.79 ft/sec<sup>2</sup> average must be attained from phases (a) and (b) of 20 controlled impending skid (threshold) stops.

**COMPETITIVE TEST CATEGORIES**

Each vehicle to be considered for the bid will be evaluated in the following weighted categories:

<u>CATEGORY</u>	<u>CATEGORY WEIGHT</u>
Vehicle Dynamics	30 Points
Braking	25 Points
0 - 100 Acceleration	20 Points

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Top-Speed	10 Points
Ergonomics/Communications	10 Points
Fuel Economy	5 Points

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**SCORING METHODOLOGY**

**Raw Score:** A raw score is developed for each vehicle by testing in each of the above categories. These scores are expressed in terms of seconds, miles-per-hour, feet-per-second<sup>2</sup>, points, and miles-per-gallon.

**Deviation Factor:** The best scoring vehicle in each test category receives a “0” as its deviation factor. The decimal equivalent of the percentage by which each of the other vehicles varies from the best score in that category is that vehicle’s deviation factor.

**Weighted Category Score:** Each vehicle’s weighted category score is determined by multiplying its deviation factor (as determined above) by the category weight.

**Total Weighted Score:** The total weighted score for each vehicle is derived by adding together the six (6) weighted category scores for that vehicle.

**BID ADJUSTMENT METHODOLOGY**

**Bid Adjustment Figure:** The bid adjustment figure will be one percent (1%) of the lowest bid price received.

**Actual Dollar Adjustment:** In order to determine the actual dollar amount by which each vehicle’s bid price will be adjusted, the bid adjustment figure is multiplied by that vehicle’s total weighted score.

**Adjusted Bid Price:** The actual dollar adjustment amount arrived at for each vehicle is then added to that vehicle’s actual bid price. The resultant figure is the adjusted bid price upon which the purchasing decision will be based.

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**TWO WHEEL DRIVE UTILITY VEHICLES**

**3905-0018 Two Wheel Drive Utility Vehicle: 5 Passenger, 4 Door, Front Wheel Drive, Automatic Transmission**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on all MDOT passenger vehicles.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.

Locks; power with remote

Traction Control

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**3905-0018A Two Wheel Drive Utility Vehicle: 5 Passenger, 4 Door, Front Wheel Drive –  
alternative fuel**

Automatic Transmission

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on all MDOT passenger vehicles.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.

Locks; power with remote

Traction Control

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**3905-0018B Two Wheel Drive Utility Vehicle: 5 Passenger, 4 Door, All-Wheel Drive,  
Automatic Transmission**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer (refer to page A).

**ADDITIONAL MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on all MDOT passenger vehicles.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.

Locks; power with remote

Traction Control

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**3905-0019 Two Wheel Drive Utility Vehicle: 6-8 Passenger, 4 Door, Front Wheel Drive**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on all MDOT passenger vehicles.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.

Locks; power with remote

Traction Control

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**3958-0020 LIGHT DUTY TRUCK I: PICK-UP BODY MIDSIZE, REGULAR CAB,  
(Approx. 6' Box) (Payload-1,000 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip

Battery-12, Volt, 475 CCA, minimum.

Bumper- Mfg. Std.

Fuel capacity-largest available from mfg.

Spare tire and wheel. Full size. Mfg. Std. mounting.

Wrench-wheel.

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**LIGHT DUTY TRUCKS**

**3958-0023 LIGHT DUTY TRUCK I: PICK-UP BODY MIDSIZE, EXTENDED CAB,  
(Approx. 6' Box) (Payload-1,260 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip  
Battery-12, Volt, 475 CCA, minimum.  
Bumper- Mfg. Std.  
Fuel capacity-largest available from mfg.  
Seats-Rear  
Spare tire and wheel. Full size. Mfg. Stnd. mounting.  
Wrench-wheel.

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**3958-0025 LIGHT DUTY TRUCK I: PICK-UP BODY, REGULAR CAB, (6' Box)  
(Payload-1,600 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.  
Battery-12 Volt, 540 CCA, minimum.  
Bumper- Mfg. std.  
Fuel capacity-largest available from mfg.  
Seats, cloth  
Spare tire and wheel. Full size. Mfg. Stnd. mounting.  
Wrench-wheel.

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**3958-0026 LIGHT DUTY TRUCK I: PICK-UP BODY, REGULAR CAB, (8 Foot Box)  
(Payload-1,600 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip

Battery-12 Volt, 540 CCA, minimum.

Bumper- Mfg. Std.

Fuel capacity-largest available from mfg.

Spare tire and wheel. Full size. Mfg. Std. mounting.

Wrench-wheel.

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**3958-0026A LIGHT DUTY TRUCK I: PICK-UP BODY, REGULAR CAB,  
ALTERNATE FUEL VEHICLES, (8 Foot Box) (Payload-1,500 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip  
Battery-12 Volt, 540 CCA, minimum.  
Bumper- Mfg. Std.  
Fuel capacity-largest available from mfg.  
Spare tire and wheel. Full size. Mfg. Std. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT passenger vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.

Seats, cloth

Trailer Package, Heaviest Duty Available from Manufacturer

External Transmission Cooler, Heaviest Duty Available from Manufacturer

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**3958-0027 LIGHT DUTY TRUCK I: PICK-UP BODY, EXTENDED CAB, (8 Foot Box, Payload-1,400 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.

Battery-12 Volt, 540 CCA, minimum.

Bumper- Mfg. Std.

Fuel capacity - largest available from mfg.

Rear Seat-front facing bench.

Spare tire and wheel. Full size. Mfg. Stnd. mounting.

Wrench-wheel.

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**3958-0027A LIGHT DUTY TRUCK I: PICK-UP BODY, EXTENDED CAB,  
ALTERNATE FUEL VEHICLES, (8 Foot Box) (Payload-1,400 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip

Battery-12 Volt, 540 CCA, minimum.

Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.

Fuel capacity-largest available from mfg.

Spare tire and wheel. Full size. Mfg. Std. mounting.

Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.

Seats, cloth

Trailer Package, Heaviest Duty Available from Manufacturer

External Transmission Cooler, Heaviest Duty Available from Manufacturer

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**3958-0028 LIGHT DUTY TRUCK I: PICK-UP BODY, EXTENDED CAB, (6 Foot Box, Payload-1,400 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

T The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.

Battery-12 Volt, 540 CCA, minimum.

Bumper-Mfg. Std.

Fuel capacity - largest available from mfg.

Rear Seat-front facing bench.

Spare tire and wheel. Full size. Mfg. Std. mounting.

Wrench-wheel.

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**3958-0028A LIGHT DUTY TRUCK I: PICK-UP BODY, EXTENDED CAB,  
ALTERNATE FUEL VEHICLES, (6 Foot Box) (Payload-1,400 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip

Battery-12 Volt, 540 CCA, minimum.

Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.

Fuel capacity-largest available from mfg.

Spare tire and wheel. Full size. Mfg. Std. mounting.

Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.

Seats, cloth

Trailer Package, Heaviest Duty Available from Manufacturer

External Transmission Cooler, Heaviest Duty Available from Manufacturer

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**3958-0029 LIGHT DUTY TRUCK I: PICK-UP BODY, REGULAR CAB, (8' Box)  
(Payload-3,240 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

G.V.W.R. 8,600 (lbs.), minimum

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.  
Battery-12 Volt, 600 CCA, minimum.  
Bumper- Mfg. Std.  
Fuel capacity-largest available from mfg.  
Spare tire and wheel. Full size. Mfg. Std. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.  
Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.  
Seats, cloth  
Trailer Hitch, Class III receiver type  
Towing Package, Heaviest Duty Available from Manufacturer  
Trailer Brake controller  
Up-fitter switches

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**3958-0029D LIGHT DUTY TRUCK I: PICK-UP BODY, REGULAR CAB, DIESEL, (8' Box) (Payload-3,240 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

G.V.W.R. 8,600 (lbs.), minimum

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.  
Battery-12 Volt, 600 CCA, minimum.  
Bumper- Mfg. Std.  
Fuel capacity-largest available from mfg.  
Spare tire and wheel. Full size. Mfg. Std. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.  
Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.  
Seats, cloth  
Trailer Hitch, Class III receiver type  
Towing Package, Heaviest Duty Available from Manufacturer  
Trailer Brake controller  
Up-fitter switches

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**3958-0030 LIGHT DUTY TRUCK I: PICK-UP BODY, EXTENDED CAB, (8 Foot Box) (Payload-3,000 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

G.V.W.R. 8,600 (lbs.), minimum

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.  
Battery-12 Volt, 600 CCA, minimum.  
Bumper-Mfg. Std.  
Fuel capacity-largest available from mfg.  
Rear Seat-front facing bench.  
Spare tire and wheel. Full size. Mfg. Std. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.  
Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.  
Seats, cloth, split bench  
Trailer Hitch, Class III receiver type  
Towing Package, Heaviest Duty Available from Manufacturer  
Trailer Brake controller  
Up-fitter switches

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**3958-0030A LIGHT DUTY TRUCK I: PICK-UP BODY, EXTENDED CAB,  
ALTERNATE FUEL VEHICLES, (8 Foot Box) (Payload-1,400 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip  
Battery-12 Volt, 540 CCA, minimum.  
Bumper- Mfg. Std.  
Fuel capacity-largest available from mfg.  
Spare tire and wheel. Full size. Mfg. Std. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.  
Locks; power with remote  
Seats, cloth

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0030D LIGHT DUTY TRUCK I: PICK-UP BODY, EXTENDED CAB, DIESEL, (8  
Foot Box) (Payload-3,000 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

G.V.W.R. 8,600 (lbs.), minimum

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.  
Battery-12 Volt, 600 CCA, minimum.  
Bumper-Mfg. Std.  
Fuel capacity-largest available from mfg.  
Rear Seat-front facing bench.  
Spare tire and wheel. Full size. Mfg. Stnd. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.  
Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.  
Seats, cloth, split bench  
Trailer Hitch, Class III receiver type  
Towing Package, Heaviest Duty Available from Manufacturer  
Trailer Brake controller  
Up-fitter switches

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0031 LIGHT DUTY TRUCK I: PICK-UP BODY, EXTENDED CAB, (6 Foot Box) (Payload-3,000 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

G.V.W.R. 8,800 (lbs.), minimum

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.  
Battery-12 Volt, 600 CCA, minimum.  
Bumper-Mfg. Std  
Doors-Rear, Dual  
Fuel capacity-largest available from mfg.  
Rear Seat-front facing bench.  
Spare tire and wheel. Full size. Mfg. Std. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.  
Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.  
Seats, cloth, split bench  
Trailer Hitch, Class III receiver type  
Towing Package, Heaviest Duty Available from Manufacturer  
Trailer Brake controller  
Up-fitter switches

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0031D LIGHT DUTY TRUCK I: PICK-UP BODY, EXTENDED CAB, DIESEL, (6  
Foot Box) (Payload-3,000 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

G.V.W.R. 8,800 (lbs.), minimum

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.  
Battery-12 Volt, 600 CCA, minimum.  
Bumper-Mfg. Std  
Fuel capacity-largest available from mfg.  
Rear Seat-front facing bench.  
Spare tire and wheel. Full size. Mfg. Stnd. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.  
Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.  
Seats, cloth, split bench  
Trailer Hitch, Class III receiver type  
Towing Package, Heaviest Duty Available from Manufacturer  
Trailer Brake controller  
Up-fitter switches

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**VANS AND LARGE UTILITY VEHICLES**

**3958-0032 VANS AND LARGE UTILITY VEHICLES: CARGO VAN BODY,  
(Payload-1,700 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Wheelbase (inches), 125 minimum

Engine: Type & No. of Cylinders, 8 minimum

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip

Battery-12 Volt, 600 CCA minimum.

Bumper-Rear, Mfg. Std.

Fuel capacity-largest available from mfg.

Glass side and rear door window(s)

Panel doors, rear-Window in top of each door. Locks on all doors. Door right side, hinged.

Seats-high back, driver and passenger.

Spare tire and wheel. Full size. Mfg. Std. mounting.

Wrench-wheel.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0032A VANS AND LARGE UTILITY VEHICLES: CARGO VAN BODY,  
ALTERNATIVE FUEL, (Payload-1,700 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Wheelbase (inches), 125 minimum

Engine: Type & No. of Cylinders, 8 minimum

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip

Battery-12 Volt, 600 CCA minimum.

Bumper-Rear, Mfg. Std.

Fuel capacity-largest available from mfg.

Glass side and rear door window(s)

Panel doors, rear-Window in top of each door. Locks on all doors. Door right side, hinged.

Seats-high back, driver and passenger.

Spare tire and wheel. Full size. Mfg. Std. mounting.

Wrench-wheel.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3905-0034 VANS AND LARGE UTILITY VEHICLES: UTILITY, 4-DOOR, 5-6  
PASSENGER, FULL SIZE, (Payload-1,500 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.

Battery-12 Volt, 600 CCA min.

Bumper-Rear, Mfg. Std.

Fuel capacity-largest available from mfg.

Seats-Full bench front, & full width seat facing forward back of the front seat.

Spare tire and wheel. Full size. Mfg. Std. mounting.

Wrench-wheel.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3905-0034A VANS AND LARGE UTILITY VEHICLES: UTILITY, 4-DOOR, 5-6 PASSENGER, FULL SIZE, ALTERNATIVE FUEL, (Payload-1,500 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.

Battery-12 Volt, 600 CCA min.

Bumper-Rear, Mfg. Std.

Fuel capacity-largest available from mfg.

Seats-Full bench front, & full width seat facing forward back of the front seat.

Spare tire and wheel. Full size. Mfg. Std. mounting.

Wrench-wheel.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3905-0035 VANS AND LARGE UTILITY VEHICLES: VAN, 8 PASSENGER,  
(Payload-1,600 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS**

Engine: Type & No. of Cylinders, 8 minimum

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.

Battery-12 Volts; 600 CCA minimum.

Body-Finished interior, (no exposed outside body sheet metal), full length Headliner.

Bumper-Rear, Mfg. Std.

Door-Right Side, hinged.

Fuel capacity-largest available from mfg.

Spare tire and wheel. Full size. Mfg. Std. mounting.

Wrench-wheel.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3905-0035A VANS AND LARGE UTILITY VEHICLES: VAN, 8 PASSENGER,  
ALTERNATIVE FUEL, (Payload-1,600 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS**

Engine: Type & No. of Cylinders, 8 minimum

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.

Battery-12 Volts; 600 CCA minimum.

Body-Finished interior, (no exposed outside body sheet metal), full length Headliner.

Bumper-Rear, Mfg. Std.

Door-Right Side, hinged.

Fuel capacity-largest available from mfg.

Spare tire and wheel. Full size. Mfg. Std. mounting.

Wrench-wheel.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3905-0036 VANS AND LARGE UTILITY VEHICLES: UTILITY VEHICLE,  
6-PASSENGER, HALF TON, (Payload-1,500 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.  
Battery-12 Volt, 600 CCA min.  
Bumper-Rear, Mfg. Std.  
Fuel capacity-largest available from mfg.  
Spare tire and wheel. Full size. Mfg. Std. mounting.  
Wrench-wheel.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3905-0036A VANS AND LARGE UTILITY VEHICLES: UTILITY VEHICLE,  
6-PASSENGER, HALF TON, ALTERNATIVE FUEL, (Payload-1,500 lbs.,  
min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.

Battery-12 Volt, 600 CCA min.

Bumper-Rear, Mfg. Std.

Fuel capacity-largest available from mfg.

Spare tire and wheel. Full size. Mfg. Std. mounting.

Wrench-wheel.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3905-0037 VANS AND LARGE UTILITY VEHICLES: VAN, 12 PASSENGER,  
(Payload-2,649 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

G.V.W.R. 8,600 (lbs.), minimum

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volts, 600 CCA min.

Body-Finished interior (No exposed outside body sheet metal), full length headliner.

Bumper-Mfg. Std.

Door(s)-Right Side, hinged. Rear panel doors with glass.

Fuel capacity-largest available from mfg.

Spare tire and wheel. Full size. Mfg. Std. mounting.

Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Air Conditioning-Front and Rear

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.

Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.

Glass-Deep tinted or privacy, all around, movable side door window(s), fixed or movable rear door windows.

Heater, auxiliary-Passenger compartment.

Locks – Power Doors (with remote), Factory Installed

Seats-Cloth, Front, Driver and passenger and 3 bench seats. High back driver and passenger.

Trailer Hitch, Class III receiver type

Towing Package, Heaviest Duty Available from Manufacturer

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3905-0037A VANS AND LARGE UTILITY VEHICLES: VAN, 12 PASSENGER,  
ALTERNATIVE FUEL**

(Payload-2,649 lbs., min.)

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

G.V.W.R. 8,600 (lbs.), minimum

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volts, 600 CCA min.

Body-Finished interior (No exposed outside body sheet metal), full length headliner.

Bumper-Mfg. Std.

Door(s)-Right Side, hinged. Rear panel doors with glass.

Fuel capacity-largest available from mfg.

Spare tire and wheel. Full size. Mfg. Std. mounting.

Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Air Conditioning-Front and Rear

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.

Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.

Glass-Deep tinted or privacy, all around, movable side door window(s), fixed or movable rear door windows.

Heater, auxiliary-Passenger compartment.

Locks – Power Doors (with remote), Factory Installed

Seats-Cloth, Front, Driver and passenger and 3 bench seats. High back driver and passenger.

Trailer Hitch, Class III receiver type

Towing Package, Heaviest Duty Available from Manufacturer

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3905-0038 VANS AND LARGE UTILITY VEHICLES: UTILITY VEHICLE,  
EXTENDED 6-PASSENGER, THREE-QUARTER TON, (Payload-2,400  
lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.

Battery-12 Volt, 600 CCA min.

Bumper-Rear, Mfg. Std.

Fuel capacity-largest available from mfg.

Spare tire and wheel. Full size. Mfg. Std. mounting.

Wrench-wheel.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0039 VANS AND LARGE UTILITY VEHICLES: CARGO VAN BODY,  
THREE-QUARTER TON, (Payload-3,100 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

G.V.W.R. 8,550 (lbs.), minimum

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.  
Battery-12 Volt, 600 CCA min.  
Bumper Rear, Mfg. Std.  
Doors, Rear, Panel-Window in top of each door. Locks on all  
doors. Door Right Side, hinged with windows.  
Fuel capacity-largest available from mfg.  
Spare tire and wheel. Full size. Mfg. Std. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.  
Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.  
Locks – Power Doors, Factory Installed  
Seats-Cloth, Front, Driver and passenger. High back driver and passenger.  
Trailer Hitch, Class III receiver type  
Towing Package, Heaviest Duty Available from Manufacturer

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0039A VANS AND LARGE UTILITY VEHICLES: CARGO VAN BODY,  
THREE-QUARTER TON, ALTERNATIVE FUEL, (Payload-3,100 lbs.,  
min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

G.V.W.R. 8,550 (lbs.), minimum

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.  
Battery-12 Volt, 600 CCA min.  
Bumper Rear, Mfg. Std.  
Doors, Rear, Panel-Window in top of each door. Locks on all doors. Door Right Side, hinged with windows.  
Fuel capacity-largest available from mfg.  
Spare tire and wheel. Full size. Mfg. Std. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.  
Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.  
Locks – Power Doors, Factory Installed  
Seats-Cloth, Front, Driver and passenger. High back driver and passenger.  
Trailer Hitch, Class III receiver type  
Towing Package, Heaviest Duty Available from Manufacturer

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0039T VANS AND LARGE UTILITY VEHICLES: CARGO VAN BODY, ONE  
TON, (Payload-3,900 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

G.V.W.R. 8,550 (lbs.), minimum

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.  
Battery-12 Volt, 600 CCA min.  
Bumper Rear, Mfg. Std.  
Doors, Rear, Panel-Window in top of each door. Locks on all  
doors. Door Right Side, hinged with windows.  
Fuel capacity-largest available from mfg.  
Spare tire and wheel. Full size. Mfg. Std. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.  
Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.  
Locks – Power Doors, Factory Installed  
Seats-Cloth, Front, Driver and passenger. High back driver and passenger.  
Trailer Hitch, Class III receiver type  
Towing Package, Heaviest Duty Available from Manufacturer

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0039TA VANS AND LARGE UTILITY VEHICLES: CARGO VAN BODY, ONE  
TON, ALTERNATIVE FUEL, (Payload-3,900 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

G.V.W.R. 8,550 (lbs.), minimum

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.  
Battery-12 Volt, 600 CCA min.  
Bumper Rear, Mfg. Std.  
Doors, Rear, Panel-Window in top of each door. Locks on all doors. Door Right Side, hinged with windows.  
Fuel capacity-largest available from mfg.  
Spare tire and wheel. Full size. Mfg. Std. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.  
Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.  
Locks – Power Doors, Factory Installed  
Seats-Cloth, Front, Driver and passenger. High back driver and passenger.  
Trailer Hitch, Class III receiver type  
Towing Package, Heaviest Duty Available from Manufacturer

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3905-0040 VANS AND LARGE UTILITY VEHICLES: VAN-15 PASSENGER**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Air Conditioning-Front and Rear  
Battery-12 Volt, 600 CCA min.  
Bumper-Front and Rear, Mfg. standard finish.  
Doors-Passenger, right side, hinged.  
Fuel capacity-largest available from mfg.  
Spare tire and wheel. Full size. Mfg. Std. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.  
Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.  
Glass-Deep tinted or privacy, all around, movable side door window(s), fixed or movable rear door windows.  
Heater, Auxiliary-Passenger compartment.  
Insulation package-Front floor driver's compartment, side panels. Full-length headlining insulation, full width floor mat passenger compartment. (Deluxe or heavy duty.)  
Locks – Power Doors.  
Seat, driver and passenger, high back bucket, and 4-bench type passenger cloth seats with arm rests.  
Trailer Hitch, Class III receiver type  
Towing Package, Heaviest Duty Available from Manufacturer

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3905-0040A VANS AND LARGE UTILITY VEHICLES: VAN-15 PASSENGER,  
ALTERNATIVE FUEL**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Air Conditioning-Front and Rear  
Battery-12 Volt, 600 CCA min.  
Bumper-Front and Rear, Mfg. standard finish.  
Doors-Passenger, right side, hinged.  
Fuel capacity-largest available from mfg.  
Spare tire and wheel. Full size. Mfg. Std. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.  
Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.  
Glass-Deep tinted or privacy, all around, movable side door window(s), fixed or movable rear door windows.  
Heater, Auxiliary-Passenger compartment.  
Insulation package-Front floor driver's compartment, side panels. Full-length headlining insulation, full width floor mat passenger compartment. (Deluxe or heavy duty.)  
Locks – Power Doors.  
Seat, driver and passenger, high back bucket, and 4-bench type passenger cloth seats with arm rests.  
Trailer Hitch, Class III receiver type  
Towing Package, Heaviest Duty Available from Manufacturer

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3905-0041 VANS AND LARGE UTILITY VEHICLES: COMPACT VAN 5  
PASSENGER, FRONT WHEEL DRIVE, (Payload-1,470 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

G.V.W.R. (lbs.), 5,000 min.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volt, 500 CCA, Min.

Bumper-Front and rear, Mfg. standard finish.

Spare Tires Limited Service tire and wheel. Mfg. Stnd. mounting.

Speed Control, Factory Installed.

Wrench-wheel.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3905-0042 VANS AND LARGE UTILITY VEHICLES: COMPACT VAN, 7  
PASSENGER (Minimum), FRONT WHEEL DRIVE, (Payload-1,100 lbs.,  
min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

G.V.W.R. (lbs.), 5,000 min.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volt, 500 CCA, Min.

Bumper-Front and rear, Mfg. standard finish.

Spare Tires Limited Service tire and wheel. Mfg. Stnd. mounting.

Speed Control, Factory Installed.

Wrench-wheel.

**STATE OF MICHIGAN  
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PURCHASING OPERATIONS**

**3905-0042A VANS AND LARGE UTILITY VEHICLES: COMPACT VAN, 7  
PASSENGER (Minimum), FRONT WHEEL DRIVE, ALTERNATE FUEL  
VEHICLES, (Payload-1,100 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS**

G.V.W.R. (lbs.), 5,000 minimum

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volt, 500 CCA, Min.

Bumper-Front and rear, Mfg. standard finish.

Spare tire and wheel, Limited Service. Mfg. Std. mounting.

Wrench-wheel.

**STATE OF MICHIGAN  
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PURCHASING OPERATIONS**

**3958-0044 VANS AND LARGE UTILITY VEHICLES: COMPACT VAN, CARGO,  
FRONT WHEEL DRIVE, (Payload 1,580 lb., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volt, 500 CCA, Min.

Bumper-Front and rear, Mfg. standard finish.

Spare tire and wheel, Limited Service. Mfg. Std. mounting.

Wrench-wheel.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0044A VANS AND LARGE UTILITY VEHICLES: COMPACT VAN, CARGO,  
FRONT WHEEL DRIVE, ALTERNATIVE FUEL, (Payload 1,580 lb., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volt, 500 CCA, Min.

Bumper-Front and rear, Mfg. standard finish.

Spare tire and wheel, Limited Service. Mfg. Std. mounting.

Wrench-wheel.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**LIGHT DUTY TRUCKS II**

**3958-0046 LIGHT DUTY TRUCK II: PICK-UP BODY, CREW CAB, FOUR DOOR,  
SINGLE REAR WHEEL, (6 Foot Box) (Payload-3,000 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.  
Battery-12 Volt, 600 CCA, minimum.  
Bumper- Mfg. Std.  
Fuel capacity-largest available from mfg.  
Spare tire and wheel. Mfg. Stnd. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.  
Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Stnd.  
Locks – Power Doors, Factory Installed.  
Seats-Front Split Bench and rear bench, cloth  
Trailer Hitch, Class III receiver type  
Towing Package, Heaviest Duty Available from Manufacturer  
Trailer Brake controller  
Up-fitter switches

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0046D LIGHT DUTY TRUCK II: PICK-UP BODY, CREW CAB, FOUR DOOR,  
SINGLE REAR WHEEL, DIESEL, (6 Foot Box) (Payload-3,000 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.  
Battery-12 Volt, 600 CCA, minimum.  
Bumper- Mfg. Std.  
Fuel capacity-largest available from mfg.  
Spare tire and wheel. Mfg. Stnd. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.  
Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Stnd.  
Locks – Power Doors, Factory Installed.  
Seats-Front Split Bench and rear bench, cloth  
Trailer Hitch, Class III receiver type  
Towing Package, Heaviest Duty Available from Manufacturer  
Trailer Brake controller  
Up-fitter switches

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0047 LIGHT DUTY TRUCK II: PICK-UP BODY—STANDARD CAB, DUAL  
REAR WHEELS, (8 Foot Box) (Payload-5,000 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS**

G.V.W.R. 11,000 (lbs.), minimum

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.  
Battery-12 Volt, 600 CCA, minimum.  
Bumper- Mfg. Std.  
Fuel capacity-largest available from mfg.  
Spare tire and wheel. Mfg. Std. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.  
Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.  
Trailer Hitch, Class III receiver type  
Towing Package, Heaviest Duty Available from Manufacturer  
Trailer Brake controller  
Up-fitter switches

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0047D LIGHT DUTY TRUCK II: PICK-UP BODY—STANDARD CAB, DIESEL,  
DUAL REAR WHEELS, (8 Foot Box) (Payload-5,000 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS**

G.V.W.R. 11,000 (lbs.), minimum

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.  
Battery-12 Volt, 600 CCA, minimum.  
Bumper- Mfg. Std.  
Fuel capacity-largest available from mfg.  
Spare tire and wheel. Mfg. Std. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.

Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.

Trailer Hitch, Class III receiver type

Towing Package, Heaviest Duty Available from Manufacturer

Trailer Brake controller

Up-fitter switches

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0048      LIGHT DUTY TRUCK II: PICK-UP BODY—STANDARD CAB, SINGLE  
REAR WHEEL, (8 Foot Box) (Payload-4,000 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

G.V.W.R. 9,200 (lbs.), minimum

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.  
Battery-12 Volt, 600 CCA, minimum.  
Bumper- Mfg. Std.  
Fuel capacity-largest available from mfg.  
Spare tire and wheel. Mfg. Std. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.  
Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.  
Trailer Hitch, Class III receiver type  
Towing Package, Heaviest Duty Available from Manufacturer  
Trailer Brake controller  
Up-fitter switches

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0048D LIGHT DUTY TRUCK II: PICK-UP BODY—STANDARD CAB, SINGLE  
REAR WHEEL, DIESEL, (8 Foot Box) (Payload-3,800 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

G.V.W.R. 9,200 (lbs.), minimum

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed below are to be supplied on all trucks, even though they may be optional with the manufacturer. Therefore, these specifications are to be furnished on all vehicles:

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.  
Battery-12 Volt, 600 CCA, minimum.  
Bumper- Mfg. Std.  
Fuel capacity-largest available from mfg.  
Spare tire and wheel. Mfg. Std. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.  
Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.  
Trailer Hitch, Class III receiver type  
Towing Package, Heaviest Duty Available from Manufacturer  
Trailer Brake controller  
Up-fitter switches

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0049 LIGHT DUTY TRUCK II: PICK-UP BODY, CREW CAB, FOUR DOOR,  
SINGLE REAR WHEEL, (8 Foot Box) (Payload-3,800 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed below are to be supplied on all trucks, even though they may be optional with the manufacturer. Therefore, these specifications are to be furnished on all vehicles:

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.  
Battery-12 Volt, 600 CCA, minimum.  
Bumper- Mfg. Std.  
Fuel capacity-largest available from mfg.  
Spare tire and wheel. Mfg. Stnd. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.  
Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Stnd.  
Locks – Power Doors, Factory Installed  
Seats-Front Split Bench and rear bench, cloth.  
Trailer Hitch, Class III receiver type  
Towing Package, Heaviest Duty Available from Manufacturer  
Trailer Brake controller  
Up-fitter switches

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0049D LIGHT DUTY TRUCK II: PICK-UP BODY, CREW CAB, FOUR DOOR,  
SINGLE REAR WHEEL, (8 Foot Box) (Payload-3,700 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.  
Battery-12 Volt, 600 CCA, minimum.  
Bumper- Mfg. Std.  
Fuel capacity-largest available from mfg.  
Spare tire and wheel. Mfg. Std. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.  
Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.  
Locks – Power Doors, Factory Installed  
Seats-Front Split Bench and rear bench, cloth.  
Trailer Hitch, Class III receiver type  
Towing Package, Heaviest Duty Available from Manufacturer  
Trailer Brake controller  
Up-fitter switches

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0050 LIGHT DUTY TRUCK II: PICK-UP BODY, EXTENDED CAB, FOUR DOOR, DUAL REAR WHEEL, 4 X 2, (8 Foot Box), (Payload-3,970 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.  
Battery-12 Volt, 600 CCA, minimum.  
Bumper- Mfg. Std.  
Fuel capacity-largest available from mfg.  
Spare tire and wheel. Mfg. Stnd. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.  
Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Stnd.  
Locks – Power Doors, Factory Installed  
Seats-Front split bench and rear bench, cloth  
Trailer Hitch, Class III receiver type  
Towing Package, Heaviest Duty Available from Manufacturer  
Trailer Brake controller  
Up-fitter switches

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0050D LIGHT DUTY TRUCK II: PICK-UP BODY, EXTENDED CAB, FOUR DOOR, DUAL REAR WHEEL, DIESEL, 4 X 2, (8 Foot Box), (Payload-3,970 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.  
Battery-12 Volt, 600 CCA, minimum.  
Bumper- Mfg. Std.  
Fuel capacity-largest available from mfg.  
Spare tire and wheel. Mfg. Std. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.

Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.

Locks – Power Doors, Factory Installed

Seats-Front split bench and rear bench, cloth

Trailer Hitch, Class III receiver type

Towing Package, Heaviest Duty Available from Manufacturer

Trailer Brake controller

Up-fitter switches

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0051 LIGHT DUTY TRUCK II: PICK-UP BODY, EXTENDED CAB, FOUR DOOR, SINGLE REAR WHEEL, 4 X 2, (8 Foot Box), (Payload-3,800 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

- Axle, rear-limited slip.
- Battery-12 Volt, 600 CCA, minimum.
- Bumper- Mfg. Std.
- Fuel capacity-largest available from mfg.
- Spare tire and wheel. Mfg. Std. mounting.
- Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.

- Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.
- Seats-Front split bench and rear bench, cloth
- Trailer Hitch, Class III receiver type
- Towing Package, Heaviest Duty Available from Manufacturer

Trailer Brake controller

Up-fitter switches

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0051D LIGHT DUTY TRUCK II: PICK-UP BODY, EXTENDED CAB, FOUR DOOR, SINGLE REAR WHEEL, DIESEL, 4 X 2, (8 Foot Box), (Payload-3,500 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

- Axle, rear-limited slip.
- Battery-12 Volt, 600 CCA, minimum.
- Bumper- Mfg. Std.
- Fuel capacity-largest available from mfg.
- Spare tire and wheel. Mfg. Std. mounting.
- Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.

- Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.
- Seats-Front split bench and rear bench, cloth
- Trailer Hitch, Class III receiver type
- Towing Package, Heaviest Duty Available from Manufacturer

Trailer Brake controller

Up-fitter switches

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**COMMERCIAL VANS**

**3905-0057      COMMERCIAL VANS: 10-PASSENGER, RAISED ROOF, (Payload-3,200 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY SPECIFICATIONS:**

G.V.W.R. 8,600 (lbs.), minimum

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volt, 100-Ah

Body-Finished interior (no exposed outside body sheet metal), full length headliner.

Brakes-Power.

Bumper-Rear, Mfg. Std.

Fuel capacity-largest available from mfg.

Mirrors-Rear View, Inside. Outside R.H. and L.H. Power Heated

Spare tire and wheel. Full size. Mfg. Std. mounting.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3905-0058    COMMERCIAL VANS: CARGO, RAISED ROOF, (Payload-4,800 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

G.V.W.R. 8,600 (lbs.), minimum

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volt, 100-Ah

Body-Finished interior (no exposed outside body sheet metal), full length headliner.

Bumper-Rear, Mfg. Stnd.

Fuel capacity-largest available from mfg.

Mirrors-Rear View, Inside. Outside R.H. and L.H., Manual

Spare tire and wheel. Full size. Mfg. Stnd. mounting.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**MEDIUM DUTY TRUCKS AND BODIES**

**3958-0072 MEDIUM DUTY TRUCK: CAB AND CHASSIS, G.V.W.R. 10,000 lbs. min., (Payload 4,700 lb. min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission: Automatic with  
Maximum capacity transmission  
oil cooler. Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.  
Battery-12 Volt, 600 CCA, minimum.  
Fuel capacity-largest available from mfg.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.  
Upfitter Switch Package for additional lighting circuits.  
Trailer Brake Controller, Electric  
Spare tire and wheel. Mfg. Std. mounting.  
Tires, Truck, Tubeless, Radial, to meet G.V.W.R. Rear duals, mud and snow, All Terrain Type, tread design shall be similar to Goodyear Wrangler AT, or Michelin XC-AT (Goodyear preferred)

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0072D MEDIUM DUTY TRUCK: CAB AND CHASSIS, DIESEL, G.V.W.R.  
12,500 lbs. min., (Payload 6,200 lb. min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission: Automatic with maximum capacity transmission oil cooler. Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.

Battery-12 Volt, 600 CCA, minimum.

Fuel capacity-largest available from mfg.

Mirrors-Rear View, Inside. Outside R.H. and L.H., below eye level, extended reach, swing away type, 51 sq. in., minimum. Installed.

Spare tire and wheel. Mfg. Std. mounting.

Wrench-wheel.

- Tires, Truck, Tubeless, Radial, to meet G.V.W.R. Rear duals, mud and snow, All Terrain Type, tread design shall be similar to Goodyear Wrangler AT, or Michelin XC-AT (Goodyear preferred)

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.

Upfitter Switch Package for additional lighting circuits.

Trailer Brake Controller, Electric

Spare tire and wheel. Mfg. Std. mounting.

Tires, Truck, Tubeless, Radial, to meet G.V.W.R. Rear duals, mud and snow, All Terrain Type, tread design shall be similar to Goodyear Wrangler AT, or Michelin XC-AT (Goodyear preferred)

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0074 MEDIUM DUTY TRUCK: DUMP BODY AND HOIST, 2 CU. YD.**

Type & Size of Body                      Dump, 2-yard capacity with 3-yard ends, Vertical side bracing and gate bracing. Sloped running boards. Width, approx. 6-1/2'. Length- 8'0". Body and cab guard-12 gauge. Continuous welding, except structural members to sheet metal, 5" (min.) long sills, 4" (min.) crossmembers. Structural channel or interlaced understructure of comparable strength.

Hoist N.T.E.A. Class C or Class 20, double acting. Electric-over-hydraulic hydraulic system. System pressure shall be compatible with hoist to allow lifting of fully loaded body. To be operated by a dash mounted self-centering control switch.

Back Up Alarm-electronic type, moisture resistant, approx. 95 dba sound level.

Shall be equipped with a blocking device permanently attached, capable of being locked in position to prevent inadvertent lowering of body during maintenance or inspection work.

Mud Flaps-Plain. Anti-Sail Type, including Anti-Sail Hardware (No advertising either side.).

Color-To be same as cab and chassis.

Cab Protector-1/2 x full width, 12 ga.

Lights-To be equipped with all L.E.D. type clearance lamps and/or reflectors necessary to conform with laws  
of the State of Michigan.

Body Vendor to install body and hoist, mud flaps, side, front and rear clearance lamps, all reflectors, and relocate rear turn signals, if necessary.

All items removed from cab and chassis by body installer (frame ends, fuel tanks, etc.) remain the property of the State of Michigan and are to be returned with truck.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0075      MEDIUM DUTY TRUCK: 9 FT. STAKE BODY**

Type & Size of Body: Approx. 9 Ft. Stake.

Platform to be of non-skid tread plate, 1/8" minimum. Stake pockets to be of 12 gauge steel. Complete with removable racks (approximately 42 in. high) front, rear and sides. Steel slats, 14 ga. (min.)

Steel rub-rail. Longitudinal sills, 6" (min.) Structural steel channels. Crossmembers, 3" (min.) structural channel or 3" Jr. I beam (min.) on approx. 18" centers.

Body to be:    Omaha  
                  Knapheide  
                  Midwest  
                  Park Hurst  
                  Supreme

or approved equal.

Mounting- Shall include 2 U-bolts per side, plus 2 shear straps (1 ea. side) minimum of 3/8" x 2-1/2", welded to body long sills and bolted to frame.

Factory supplied sill plates acceptable on DODGE vehicles.

Filler Strips- Hardwood (rough sawn green oak or beech) or metal filler strips, one piece, full length, contoured to frame shall be installed between body sub-frame and truck frame on all body installations. Discontinuous filler strips acceptable on cab & chassis with humped frame rails. Body Mfg. recommended Std.

Back Up Alarm- Electronic type, moisture resistant, approx. 95 dba sound level.

Mud Flaps- Plain., Anti-Sail Type, including Anti-Sail Hardware (No advertising.).

Color- To be same as Cab and Chassis. Stake rack to match chassis, platform shall be black.

Rear Bumper- ICC type; delete if power tail gate is specified.

Lights- To be equipped with all L.E.D. type clearance lamps and/or reflectors necessary to conform with laws of the State of Michigan.

Body vendor to install body, mud flaps, side, front and rear clearance lamps, all reflectors, and relocate rear turn signals, if necessary.

All items removed from cab and chassis by body installer (frame ends, fuel tanks, etc.), remain the property of the State of Michigan and are to be returned with truck.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0076 MEDIUM DUTY TRUCK: 9 FT. STAKE BODY AND HYDRAULIC  
HOIST**

Type & Size of Body: Approx. 9 Ft. Stake. Structural steel long sills, 6" minimum. Platform to be of non-skid tread plate, 1/8" minimum. Stake pockets to be of 12 gauge steel. Complete with removable racks, front, rear and sides. Steel slats, 14 ga. (min.) Racks to be approximately 30 inches in height. Crossmembers, 3" (min.) structural channel or 3" Jr. I beam (min.) on approx. 18" centers.

Body to be: Omaha  
Knapheide  
Midwest  
Park Hurst  
Supreme  
or approved equal.

\*Hoist N.T.E.A. Class B, double acting. Electric-over-hydraulic hydraulic system. System pressure shall be compatible with hoist to allow lifting of fully loaded body. To be operated by a dash mounted self-centering control switch.

Shall be equipped with a blocking device permanently attached, capable of being locked in position to prevent inadvertent lowering of body during maintenance or inspection work.

Filler Strips-Hardwood (rough sawn green oak or beech) or metal filler strips, one piece, full length, contoured to frame shall be installed between body sub-frame and truck frame on all body installation. Discontinuous filler strips acceptable on cab & chassis with humped frame rails. Body Mfg. recommended Std.

Back Up Alarm-Electronic type, moisture resistant, approx. 95 dba sound level.

Mud Flaps-Plain, Anti-Sail Type, including Anti-Sail Hardware, (No advertising either side).

Color-To be same as Cab and Chassis. Stake rack to match chassis, platform shall be black.

Lights-To be equipped with all L.E.D. type clearance lamps and/or reflectors necessary to conform with laws of the State of Michigan.

Body Vendor to install body and hoist, mud flaps, side, front and rear clearance lamps, all reflectors, and relocate rear turn signals, if necessary.

All items removed from cab and chassis by body installer (frame ends, fuel tanks, etc.), remain the property of the State of Michigan and are to be returned with truck..

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0077 MEDIUM DUTY TRUCK: CAB AND CHASSIS, G.V.W.R 11,000 lbs  
minimum (Payload-5,500 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

G.V.W.R. (11,000 lbs. min.)

Transmission: Automatic with maximum capacity transmission oil cooler. Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.

Battery-12 Volt, 600 CCA, minimum.

Fuel capacity-largest available from mfg.

Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.

Mirrors-Rear View, Inside. Outside R.H. and L.H., extended reach, swing away type, 51 sq. in. minimum. Installed.

Upfitter Switch Package for additional lighting circuits.

Trailer Brake Controller, Electric

Spare tire and wheel. Mfg. Stnd. mounting.

Tires, Truck, Tubeless, Radial, to meet G.V.W.R. Rear duals, mud and snow, All Terrain Type, tread design shall be similar to Goodyear Wrangler AT, or Michelin XC-AT (Goodyear preferred)

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0077D MEDIUM DUTY TRUCK: CAB AND CHASSIS, DIESEL, G.V.W.R.  
11,000 lbs minimum (Payload-5,500 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

G.V.W.R. (11,000 lbs. min.)

Transmission: Automatic with  
maximum capacity transmission  
oil cooler. Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Axle, rear-limited slip.  
Battery-12 Volt, 600 CCA, minimum.  
Fuel capacity-largest available from mfg.  
Mirrors-Rear View, Inside. Outside R.H. and L.H., extended reach, swing away type, 51 sq. in. minimum. Installed.  
Spare tire and wheel. Mfg. Std. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.  
Mirrors-Rear View, Inside. Outside R.H. and L.H., extended reach, swing away type, 51 sq. in. minimum. Installed.  
Upfitter Switch Package for additional lighting circuits.  
Trailer Brake Controller, Electric  
Spare tire and wheel. Mfg. Std. mounting.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

Tires, Truck, Tubeless, Radial, to meet G.V.W.R. Rear duals, mud and snow, All Terrain Type, tread design shall be similar to Goodyear Wrangler AT, or Michelin XC-AT (Goodyear preferred)

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0078D MEDIUM DUTY TRUCK: CAB AND CHASSIS, DIESEL, G.V.W.R.  
12,500 lbs minimum (Payload-6,675 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

G.V.W.R. (12,500 lbs. min.)

Transmission: Automatic with  
maximum capacity transmission  
oil cooler. Factory installed

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

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Axle, rear-limited slip.  
Battery-12 Volt, 600 CCA, minimum.  
Fuel capacity-largest available from mfg.  
Mirrors-Rear View, Inside. Outside R.H. and L.H., below eye level, extended reach, swing away type, 51 sq. in. minimum. Installed.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys-(1) additional set (total of 3 sets) with code numbers; shall be with vehicle at time of delivery.  
Mirrors-Rear View, Inside. Outside R.H. and L.H., extended reach, swing away type, 51 sq. in. minimum. Installed.  
Upfitter Switch Package for additional lighting circuits.  
Trailer Brake Controller, Electric  
Spare tire and wheel. Mfg. Std. mounting.  
Tires, Truck, Tubeless, Radial, to meet G.V.W.R. Rear duals, mud and snow, All Terrain Type, tread design shall be similar to Goodyear Wrangler AT, or Michelin XC-AT (Goodyear preferred)

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0079     12 FT. STAKE BODY**

Type & Size of Body: Approx. 12 Ft. Stake.

Platform to be of non-skid tread plate, 1/8" minimum. Stake pockets to be of 12 gauge steel. Complete with removable racks (approximately 42 in. high) front, rear and sides. Steel slats, 14 ga. (min.)

Steel rub-rail. Longitudinal sills, 6" (min.) Structural steel channels. Crossmembers, 3" (min.) structural channel or 3" Jr. I beam (min.) on approx. 18" centers.

Body to be:    Omaha  
                  Knapheide  
                  Midwest  
                  Park Hurst  
                  Supreme  
                  or approved equal.

Mounting-Shall include 2 U-bolts per side, plus 2 shear straps (1 ea. side) minimum of 3/8" x 2-1/2", welded to body long sills and bolted to frame.

Factory supplied sill plates acceptable on DODGE vehicles.

Filler Strips-Hardwood (rough sawn green oak or beech) or metal filler strips, one piece, full length, contoured to frame shall be installed between body sub-frame and truck frame on all body installations. Discontinuous filler strips acceptable on cab & chassis with humped frame rails. Body Mfg. recommended Stnd.

Back Up Alarm-Electronic type, moisture resistant, approx. 95 dba sound level.

Mud Flaps-Plain, Anti-Sail Type, including Anti-Sail Hardware (No advertising.).

Color-To be same as Cab and Chassis. Stake rack to match chassis, platform shall be black.

Rear Bumper-ICC type; delete if power tail gate is specified.

Lights-To be equipped with all L.E.D. type clearance lamps and/or reflectors necessary to conform with laws of the State of Michigan.

Body Vendor to install body, mud flaps, side, front and rear clearance lamps, all reflectors, and relocate rear turn signals, if necessary.

All items removed from cab and chassis by body installer (frame ends, fuel tanks, etc.), remain the property of the State of Michigan and are to be returned with truck.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0080      12 FT. STAKE BODY AND HYDRAULIC HOIST**

Type & Size of Body: Approx. 12 Ft. Stake. Structural steel long sills, 6" minimum. Platform to be of non-skid tread plate, 1/8" minimum. Stake pockets to be of 12 gauge steel. Complete with removable racks, front, rear and sides. Steel slats, 16 ga. (min.) Racks to be approximately 30 inches in height. Crossmembers, 3" (min.) structural channel or 3" Jr. I beam (min.) on approx. 18" centers.

Body to be:    Omaha  
                  Knapheide  
                  Midwest  
                  Park Hurst  
                  Supreme  
                  or approved equal.

\*Hoist N.T.E.A. Class C double acting. Electric-over-hydraulic hydraulic system. System pressure shall be compatible with hoist to allow lifting of fully loaded body. To be operated by a dash mounted self-centering control switch.

Shall be equipped with a blocking device permanently attached, capable of being locked in position to prevent inadvertent lowering of body during maintenance or inspection work.

Filler Strips-Hardwood (rough sawn green oak or beech) or metal filler strips, one piece, full length, contoured to frame shall be installed between body sub-frame and truck frame on all body installations. Discontinuous filler strips acceptable on cab & chassis with humped frame rails. Body Mfg. recommended Std.

Back Up Alarm-Electronic type, moisture resistant, approx. 95 dba sound level.

Mud Flaps-Plain, Anti-Sail Type, including Anti-Sail Hardware, (No advertising either side).

Color-To be same as Cab and Chassis. Stake rack to match chassis, platform shall be black.

Lights-To be equipped with all L.E.D. type clearance lamps and/or reflectors necessary to conform with laws of the State of Michigan.

Body Vendor to install body and hoist, mud flaps, side, front and rear clearance lamps, all reflectors, and relocate rear turn signals, if necessary.

All items removed from cab and chassis by body installer (frame ends, fuel tanks, etc.), remain the property of the State of Michigan and are to be returned with truck.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**LIGHT DUTY TRUCKS AND UTILITY 4X4**

**3958-0083      LIGHT DUTY TRUCKS AND UTILITY 4X4: UTILITY 4-WHEEL  
DRIVE, 4-DOOR, (Payload-900 lbs., min.)**

MODEL-2011 CURRENT

**PRELIMINARY REQUIREMENTS:**

Transmission: Automatic, maximum capacity transmission oil cooler, Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volt, 500 CCA, minimum.

Bumper-Rear, Mfg. Std.

Defogger-rear window.

Spare tire and wheel. Full Size. Mfg. Std. mounting.

Wrench-wheel.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0083A LIGHT DUTY TRUCKS AND UTILITY 4X4: UTILITY 2-WHEEL  
DRIVE, 4-DOOR,ALTERNATE FUEL VEHICLES, (Payload-900 lbs., min.)**

MODEL-2011 CURRENT

**PRELIMINARY REQUIREMENTS:**

Transmission: Automatic

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volt, 500 CCA, minimum.

Bumper-Rear, Mfg. Std.

Defogger-rear window.

Spare tire and wheel. Full Size. Mfg. Std. mounting.

Wrench-wheel.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0084 LIGHT DUTY TRUCKS AND UTILITY 4X4: PICK-UP BODY MIDSIZE,  
(Approx. 7' Box) (Payload-1,000 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volt, 500 CCA, minimum.

Fuel capacity-largest available from mfg.

Spare tire and wheel. Full size. Mfg. Std. mounting.

Wrench-wheel.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3905-0085 LIGHT DUTY TRUCKS AND UTILITY 4X4: UTILITY, 4-DOOR,  
6-PASSENGER, FULL SIZE, (Payload-1,480 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volt, 600 CCA min.

Fuel capacity-largest available from mfg.

Spare tire and wheel. Full size. Mfg. Std. mounting.

Wrench-wheel.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0086 LIGHT DUTY TRUCKS AND UTILITY 4X4: PICK-UP BODY,  
EXTENDED CAB, (8 Foot Box) (Payload-1,300 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission: Automatic with 2 speed Transfer Case, and maximum capacity transmission oil cooler, Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volt, 540 CCA, minimum.

Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.

Fuel capacity-largest available from mfg.

Spare tire and wheel. Full Size. Mfg. Std. mounting.

Wrench-wheel.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0086A LIGHT DUTY TRUCKS AND UTILITY 4X4: PICK-UP BODY,  
EXTENDED CAB, ALTERNATIVE FUEL, (8 Foot Box) (Payload-1,300  
lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission: Automatic with 2 speed Transfer Case, and maximum capacity transmission oil cooler, Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volt, 540 CCA, minimum.  
Bumper- Mfg. Std.  
Fuel capacity-largest available from mfg.  
Spare tire and wheel. Full Size. Mfg. Std. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.  
Hubs-automatic locking type **on front (MDOT)** or axle shaft disconnect system  
Keys -(1) additional set (total of 3 sets) with code numbers; shall be with the vehicle at the time of delivery.  
Seat, Rear-front facing bench.  
Skid Plate(s)  
Tires, Tubeless, Radial, to meet G.V.W.R. Tread Design shall be similar to Goodyear Wrangler AT, or Michelin XC-AT.  
Tow hooks-front, frame mounted.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0087 LIGHT DUTY TRUCKS AND UTILITY 4X4: PICK-UP BODY,  
EXTENDED CAB, (6 Foot Box) (Payload-1,300 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission: Automatic with 2 speed Transfer Case, and maximum capacity transmission oil cooler Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volt, 540 CCA, minimum.

Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.

Fuel capacity-largest available from mfg.

Spare tire and wheel. Full Size. Mfg. Std. mounting.

Wrench-wheel.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0087A LIGHT DUTY TRUCKS AND UTILITY 4X4: PICK-UP BODY,  
EXTENDED CAB, ALTERNATIVE FUEL, (6 Foot Box) (Payload-1,300  
lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission: Automatic with 2 speed Transfer Case, and maximum capacity transmission oil cooler, Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volt, 540 CCA, minimum.  
Bumper-Mfg. Std.  
Fuel capacity-largest available from mfg.  
Spare tire and wheel. Full Size. Mfg. Std. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.  
Hubs-automatic locking type **on front (MDOT)** or axle shaft disconnect system.  
Keys – (1) additional set (total of 3 sets) with code numbers; shall be with the vehicle at the time of delivery  
Seat, Rear-front facing bench.  
Skid Plate(s)  
Tires, Tubeless, Radial, to meet G.V.W.R. Tread Design shall be similar to Goodyear Wrangler AT, or Michelin XC-AT (Goodyear preferred)  
Tow hooks-front, frame mounted.

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**3958-0088 LIGHT DUTY TRUCKS AND UTILITY 4X4: PICK-UP BODY,  
EXTENDED CAB, (8 Foot Box) (Payload-2,500 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

G.V.W.R. 8,600 (lbs.), minimum

Transmission: Automatic with 2 speed Transfer Case and maximum capacity transmission oil cooler, Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volt, 600 CCA, minimum.  
Bumper-Mfg. Std.  
Fuel capacity-largest available from mfg.  
Spare tire and wheel. Full Size. Mfg. Std. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Stnd.

**Hubs-automatic locking type on front (MDOT)**

Keys – (1) additional set (total of 3 sets) with code numbers; shall be with the vehicle at the time of delivery.

Seats, Cloth

Seat, Rear-front facing bench

Skid Plate(s)

Tires, Truck, Tubeless, Radial, to meet G.V.W.R. Tread design shall be similar to Goodyear Wrangler AT, or Michelin XC-AT (Goodyear preferred)

Towing Package, Heaviest Duty Available from Manufacturer

Tow hooks-front, frame mounted.

Trailer Brake controller

Trailer Hitch, Class III receiver type

Up-fitter switches

**STATE OF MICHIGAN  
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**3958-0088D LIGHT DUTY TRUCKS AND UTILITY 4X4: PICK-UP BODY,  
EXTENDED CAB, DIESEL, (8 Foot Box) (Payload-2,350 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

G.V.W.R. 8,600 (lbs.), minimum

Transmission: Automatic with 2 speed Transfer Case and maximum capacity transmission oil cooler. Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volt, 600 CCA, minimum.

Bumper-Mfg. Std.

Fuel capacity-largest available from mfg.

Spare tire and wheel. Full Size. Mfg. Std. mounting.

Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.

**Hubs-automatic locking type on front (MDOT)**

Keys – (1) additional set (total of 3 sets) with code numbers; shall be with the vehicle at the time of delivery.

Seats, Cloth

Seat, Rear-front facing bench

Skid Plate(s)

Tires, Truck, Tubeless, Radial, to meet G.V.W.R. Tread design shall be similar to Goodyear Wrangler AT, or Michelin XC-AT (Goodyear preferred)

Towing Package, Heaviest Duty Available from Manufacturer

Tow hooks-front, frame mounted.

Trailer Brake controller

Trailer Hitch, Class III receiver type

Up-fitter switches

**STATE OF MICHIGAN  
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**3958-0089 LIGHT DUTY TRUCKS AND UTILITY 4X4: PICK-UP BODY,  
EXTENDED CAB, (6 Foot Box) (Payload-2,500 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

G.V.W.R. 8,600 (lbs.), minimum

Transmission: Automatic with 2 speed Transfer Case and maximum capacity transmission oil cooler. Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volt, 600 CCA, minimum.  
Bumper- Mfg. Std.  
Fuel capacity-largest available from mfg.  
Spare tire and wheel. Full Size. Mfg. Std. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.

**Hubs-automatic locking type on front (MDOT)**

Keys – (1) additional set (total of 3 sets) with code numbers; shall be with the vehicle at the time of delivery.

Seats, Cloth

Seat, Rear-front facing bench.

Skid Plate(s)

Tires, Truck, Tubeless, Radial, to meet G.V.W.R. Tread design shall be similar to Goodyear Wrangler AT, or Michelin XC-AT (Goodyear preferred)

Towing Package, Heaviest Duty Available from Manufacturer

Tow hooks-front, frame mounted.

Trailer Brake controller

Trailer Hitch, Class III receiver type

Up-fitter switches

**STATE OF MICHIGAN  
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**3958-0089D LIGHT DUTY TRUCKS AND UTILITY 4X4: PICK-UP BODY,  
EXTENDED CAB, DIESEL, (6 Foot Box) (Payload-2,500 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

G.V.W.R. 8,600 (lbs.), minimum

Transmission: Automatic with 2 speed Transfer Case and maximum capacity transmission oil cooler. Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volt, 600 CCA, minimum.

Bumper- Mfg. Std.

Fuel capacity-largest available from mfg.

Spare tire and wheel. Full Size. Mfg. Stnd. mounting.

Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Stnd.

**Hubs-automatic locking type on front (MDOT)**

Keys – (1) additional set (total of 3 sets) with code numbers; shall be with the vehicle at the time of delivery.

Seats, Cloth

Seat, Rear-front facing bench.

Skid Plate(s)

Tires, Truck, Tubeless, Radial, to meet G.V.W.R. Tread design shall be similar to Goodyear Wrangler AT, or Michelin XC-AT (Goodyear preferred)

Towing Package, Heaviest Duty Available from Manufacturer

Tow hooks-front, frame mounted.

Trailer Brake controller

Trailer Hitch, Class III receiver type

Up-fitter switches

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PURCHASING OPERATIONS**

**3958-0090 LIGHT DUTY TRUCKS AND UTILITY 4X4: PICK-UP BODY, (6 Ft. Box)  
(Payload-1,300 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission: Automatic with 2-speed transfer case and maximum capacity transmission oil cooler. Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volt, 540 CCA, minimum.

Bumper-Mfg. Std.

Fuel capacity-largest available from mfg.

Spare tire and wheel. Full Size. Mfg. Std. mounting.

Wrench-wheel.

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**3958-0090A LIGHT DUTY TRUCKS AND UTILITY 4X4: PICK-UP BODY,  
ALTERNATIVE FUEL, (6 Ft. Box) (Payload-1,300 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission: Automatic with 2-speed transfer case and maximum capacity transmission oil cooler. Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volt, 540 CCA, minimum.

Bumper- Mfg. Std.

Fuel capacity-largest available from mfg.

Spare tire and wheel. Full Size. Mfg. Std. mounting.

Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.

Hubs-Automatic locking type **on front (MDOT)** or axle shaft disconnect system.

Keys – (1) additional set (total of 3 sets) with code numbers; shall be with the vehicle at the time of delivery.

Skid Plate(s)

Tires, tubeless, radial to meet G.V.W.R. Tread design shall be similar to Goodyear Wrangler AT, or Michelin XC-AT (Goodyear preferred)

Tow hooks-front, frame mounted.

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**3958-0091 LIGHT DUTY TRUCKS AND UTILITY 4X4: PICK-UP BODY, (8 Ft. Box)  
(Payload-1,300 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission: Automatic with 2-speed transfer case and maximum capacity transmission oil cooler. Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volt, 540 CCA, minimum.

Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.

Fuel capacity-largest available from mfg.

Skid Plate(s)

Spare tire and wheel. Full Size. Mfg. Std. mounting.

Tow hooks-front, frame mounted.

Wrench-wheel.

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**3958-0091A LIGHT DUTY TRUCKS AND UTILITY 4X4: PICK-UP BODY,  
ALTERNATIVE FUEL, (8 Ft. Box) (Payload-1,300 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission: Automatic with 2-speed transfer case and maximum capacity transmission oil cooler. Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volt, 540 CCA, minimum.

Bumper-Mfg. Std.

Fuel capacity-largest available from mfg.

Spare tire and wheel. Full Size. Mfg. Std. mounting.

Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.

Hubs-Automatic locking type **on front (MDOT)** or axle shaft disconnect system.

Keys – (1) additional set (total of 3 sets) with code numbers; shall be with the vehicle at the time of delivery.

Skid Plate(s)

Tires, tubeless, radial to meet G.V.W.R. Tread design shall be similar to Goodyear Wrangler AT, or Michelin XC-AT (Goodyear preferred)

Tow hooks-front, frame mounted.

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**3958-0092 LIGHT DUTY TRUCKS AND UTILITY 4X4: PICK-UP BODY, 8 FT. Box  
(Payload 2,800 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

G.V.W.R. 8,600 (lbs.), minimum

Transmission: Automatic with 2-speed transfer case and maximum capacity transmission oil cooler. Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volt, 600 CCA, min.  
Bumper- Mfg. Std.  
Fuel capacity-largest available from mfg.  
Spare tire and wheel. Full Size. Mfg. Std. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.

**Hubs-Automatic locking type on front (MDOT)**

Keys – (1) additional set (total of 3 sets) with code numbers; shall be with the vehicle at the time of delivery.

Skid Plate(s)

Tires, Truck, Tubeless, Radial, to meet G.V.W.R. Tread design shall be similar to Goodyear Wrangler AT, or Michelin XC-AT (Goodyear preferred)

Towing Package, Heaviest Duty Available from Manufacturer

Tow hooks-front, frame mounted.

Trailer Hitch, Class III receiver type

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**3958-0092D LIGHT DUTY TRUCKS AND UTILITY 4X4: PICK-UP BODY, DIESEL, 8  
Ft. Box (Payload 2,800 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

G.V.W.R. 8,600 (lbs.), minimum

Transmission: Automatic with 2-speed transfer case and maximum capacity transmission oil cooler. Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volt, 600 CCA, min.  
Bumper- Mfg. Std.  
Fuel capacity-largest available from mfg.  
Spare tire and wheel. Full Size. Mfg. Std. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Bumper-Rear, step down type, Heaviest Avail. Towing Capacity, Mfg. Std.

**Hubs-Automatic locking type on front (MDOT)**

Keys – (1) additional set (total of 3 sets) with code numbers; shall be with the vehicle at the time of delivery.

Skid Plate(s)

Tires, Truck, Tubeless, Radial, to meet G.V.W.R. Tread design shall be similar to Goodyear Wrangler AT, or Michelin XC-AT (Goodyear preferred)

Towing Package, Heaviest Duty Available from Manufacturer

Tow hooks-front, frame mounted.

Trailer Hitch, Class III receiver type

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**3958-0093 LIGHT DUTY TRUCKS AND UTILITY 4X4: CAB AND CHASSIS, DUAL REAR WHEELS, (G.V.W.R. 10,000 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission: Automatic: with 2-speed transfer case and maximum capacity transmission oil cooler. Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery 12 Volt; 600 CCA, minimum.  
Fuel capacity-largest available from mfg.  
Spare wheel.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

**Hubs-Automatic locking type on front (MDOT)**

Keys – (1) additional set (total of 3 sets) with code numbers; shall be with the vehicle at the time of delivery.

Skid Plate(s).

Seats-split bench front

Tires, Truck, Tubeless, Radial, to meet G.V.W.R. Rear duals. Tread design for all tires shall be similar to Goodyear Wrangler AT, or Michelin XC-AT (Goodyear preferred)

Tow Hooks-front, frame mounted.

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**3958-0093D LIGHT DUTY TRUCKS AND UTILITY 4X4: CAB AND CHASSIS, DUAL REAR WHEELS, DIESEL, (G.V.W.R. 10,000 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission: Automatic: with 2-speed transfer case and maximum capacity transmission oil cooler. Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery 12 Volt; 600 CCA, minimum.  
Fuel capacity-largest available from mfg.  
Spare wheel.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

**Hubs-Automatic locking type on front (MDOT)**

Keys – (1) additional set (total of 3 sets) with code numbers; shall be with the vehicle at the time of delivery.  
Skid Plate(s).  
Seats-split bench front  
Tires, Truck, Tubeless, Radial, to meet G.V.W.R. Rear duals. Tread design for all tires shall be similar to Goodyear Wrangler AT, or Michelin XC-AT (Goodyear preferred)  
Tow Hooks-front, frame mounted.

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**3905-0094 LIGHT DUTY TRUCKS AND UTILITY 4X4: UTILITY VEHICLE,  
LARGE, 6-8 PASSENGER, (Payload-1,500 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission: Automatic: w/2-speed Transfer Case.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Alternator-80 amp., min.

Battery-12 Volt; 600 CCA, min.

Body-Finished interior (no exposed outside body sheet metal), full length headliner.

Brakes-Power.

Bumper-Rear, Mfg. Std.

Fuel tank-largest single tank available from mfg.

Mirrors-Rear View, Inside. Outside R.H. and L.H. below eye level, swing away type, 54 square in minimum, Installed.

Spare tire and wheel. Full size. Mfg. Std. mounting.

Steering-Power.

Wrench-wheel.

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**3905-0094A LIGHT DUTY TRUCKS AND UTILITY 4X4: UTILITY VEHICLE,  
LARGE, 6-8 PASSENGER, ALTERNATIVE FUEL, (Payload-1,500 lbs.,  
min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission: Automatic: w/2-speed Transfer Case.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Passenger Vehicle Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page A](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volt; 600 CCA, min.  
Bumper-Rear, Mfg. Std.  
Fuel tank-largest single tank available from mfg.  
Spare tire and wheel. Full size. Mfg. Std. mounting.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys – (1) additional set (total of 3 sets) with code numbers; shall be with the vehicle at the time of delivery.  
Seats-Full bench front, with a full width forward facing rear seat.  
Skid plates-Fuel tank and transfer case.  
Tow hooks-front, frame mounted.

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**MEDIUM DUTY TRUCKS 4X4**

**3958--0096D MEDIUM DUTY TRUCK 4X4: CAB AND CHASSIS, (G.V.W.R. 25,950 lbs., min.), DIESEL, (Body & Payload-Approx. 13,000 lbs.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Gross H.P., min. **225**

Clutch: Heavy duty

Transmission: 5-speed syncro. with 2-speed transfer case P.T.O. opening both sides

Front Wheel Lock-out Hubs.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as "STANDARD FACTORY EQUIPPED" and are to be included on this vehicle.

Alternator-100 amp. min., Reference 22SI or approved equal

Battery's-12 Volt; 1050 CCA, minimum.

Brakes-Full Air. Current FMVSS. Dust plates. Air dryer with spin on filter,

Automatic Drain Valves. Automatic slack adjusters, Anti-Lock.

Cab assist handles-right and left.

Fuel/Water Separator with Heater.

Fuel tanks-dual step, 50 gallon capacity each.

Heater-Engine block, 110/120 VAC

Hood, Tilt Type.

Mirrors-Rear View, Outside. L.H. and R.H. West Coast type. 6" x 16", with stainless steel or powder coated steel heads, brackets, and hardware.

Running board-To have running boards on each side, or step tanks.

Spare wheel.

Starting Aid-Cold weather, ether type or glow plug.

Steering-Power.

Tachometer.

Throttle, Electronic, High Idle Engine RPM Control.

Wheels, Hub Pilot Disc Type

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**3958-0098D MEDIUM DUTY TRUCK 4X4: CAB AND CHASSIS, DIESEL, G.V.W.R.  
12,000 lbs. min., (Payload 5,800 lb. min.), 60" Min. C.A.**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission: Automatic with Maximum capacity transmission oil cooler, Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as "STANDARD FACTORY EQUIPPED" and are to be included on this vehicle.

Axle, rear-limited slip.  
Battery-12 Volt, 600 CCA, minimum.  
Fuel capacity-largest available from mfg.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as "STANDARD FACTORY EQUIPPED" and are to be included on this MDOT vehicle.

Keys – (1) additional set (total of 3 sets) with code numbers; shall be with the vehicle at the time of delivery  
Hubs autolocking on front (MDOT)  
Tires, Truck, Tubeless, Radial, to meet G.V.W.R. Rear duals, mud and snow, All Terrain Type, tread design shall be similar to Goodyear Wrangler AT, or Michelin XC-AT (Goodyear preferred)  
Spare tire and wheel. Mfg. Std. mounting.  
Transmission: P.T.O. Provision.

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**3958-0099D MEDIUM DUTY TRUCK 4X4: CAB AND CHASSIS, (Payload-5,930 lbs., min.), 84" Min. C.A.**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

G.V.W.R. (12,500 lbs. min.)

Transmission: Automatic with maximum capacity transmission oil cooler, Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as "STANDARD FACTORY EQUIPPED" and are to be included on this vehicle.

Alternator-80 amp., min.  
Axle, rear-limited slip.  
Battery-12 Volt, 600 CCA, minimum.  
Fuel capacity-largest available from mfg.  
Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as "STANDARD FACTORY EQUIPPED" and are to be included on this MDOT vehicle.

Keys – (1) additional set (total of 3 sets) with code numbers; shall be with the vehicle at the time of delivery.

Hubs autolocking (MDOT)

Mirrors-Rear View, Inside. Outside R.H. and L.H., below eye level, extended reach, swing away type, 51 sq. in. minimum. Installed.

Spare tire and wheel. Mfg. Std. mounting.

Tires, Truck, Tubeless, Radial, to meet G.V.W.R. Rear duals, mud and snow, All Terrain Type, tread design shall be similar to Goodyear Wrangler AT, or Michelin XC-AT (Goodyear preferred)

Transmission: P.T.O. Provision.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**CUT AWAYS AND VAN BODIES**

**3958-0100 CUT-AWAY VAN AND BODY: Single Rear Wheel, (G.V.W.R. 8,900 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery 12 Volt; 600 CCA, minimum.

Mirrors-Rear View, Inside. Outside R.H. and L.H. shall provide full Vision  
past body installation

Wrench-wheel.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0101 CUT-AWAY VAN AND BODY: DUAL REAR WHEEL, (G.V.W.R. 10,000 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery 12 Volt; 600 CCA, minimum.

Mirrors-Rear View, Inside. Outside R.H. and L.H. shall provide full Vision  
past body installation.

Seat-Passenger.

Wrench-wheel.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0102 CUT-AWAY VAN AND BODY: ALUMINUM VAN-(Non-Insulated),  
(Pre-Painted White)**

Size - Nominal Length I.D. 10', 12', 14' or 15'. (Specify length)  
Nominal Height I.D. 84"  
Width Overall 96"

**BASIC REQUIREMENTS:**

Cargo Body Requirements-Aluminum side panels, prepainted frost white .040" skin riveted to extruded aluminum Vertical posts on 16" centers. All riveting shall be with solid rivets. Pop rivets not acceptable. Front Vertical corners are to be rounded with approximately 5 to 6" radius or extruded aluminum wall sections with integral interlocking uprights on 12" centers (aluminum shall be 100" thick 6063T).

Rear Door-All Galvanized steel rear door frame with 85" wide minimum opening. Overhead type rear door with positive closing and lock ability. 2 windows for driver road Visibility. 1 1/4" dia. steel rollers.

Roof-One piece aluminum roof, .040" skin, supported and bonded to crowned aluminum roof bows. Roof rails must provide for recessed clearance lamps with external wiring slot.

Floor-Under structure shall be full 3" steel channel crossills on 16" centers. Rectangular steel or .125" aluminum plate wheel boxes for low entry height. 2" T&G or ship lap dense pine flooring.

Lights-(Must meet all Federal and State codes) Clearance lamps to be L.E.D. type recessed in roof rail with external wiring in protective slot.

Lining and Interior-1/2" plywood full height each side and at front. Furnish protective barrier behind driver and passenger with access to cab-no door required. There must be sufficient clearance between the Protective Barrier and the top of the back of the Hi-Back Seat, when the factory installed seat is in its rear most locked position. 1 row 'E' logistics track each side at 24" from floor to center of track, surface mount. Dome lamp with rear switch hot wired to battery. Switch shall be mounted near rear door.

Other-Back up alarm, electronic, 95 DBA.

Rear bumper and step-full width with rear chassis lights recessed in bumper.

Grab handles-1 each side.

Nose Cone.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0103 CUT AWAY VAN AND BODY: CUT-AWAY F.R.P. VAN(Non-Insulated),  
(White)**

Size - Nominal Length I.D. 10', 12', 14' or 15'. (Specify length)  
Nominal Height I.D. 84"  
Width Overall 96"

**BASIC REQUIREMENTS:**

Cargo Body Requirements-1/2" F.R.P. gel coat panels, 0.100 thickness extruded aluminum top and bottom rail, white exterior. Front Vertical corners are to be rounded with approximately 5 to 6" radius or extruded aluminum wall sections with integral interlocking uprights on 12" centers (aluminum shall be 100" thick 6063T).

Rear Door-All Galvanized steel rear door frame with 85" wide minimum inside opening. Overhead type rear door with positive closing and lock ability. 2 windows for driver road Visibility. 1 1/4" dia. steel rollers.

Roof-One piece aluminum roof, .040" skin, supported and bonded to crowned aluminum roof bows. Roof rails must provide for recessed clearance lamps with external wiring slot.

Floor-Under structure shall be full 3" steel channel crosssills on 16" centers. Rectangular steel or .125" aluminum plate wheel boxes for low entry height. 2" T&G or ship lap dense pine flooring.

Lights-(Must meet all Federal and State codes) Clearance lamps to be L.E.D. type recessed in roof rail with external wiring in protective slot.

Furnish protective barrier behind driver and passenger with access to cab-no door required. There must be sufficient clearance between the Protective Barrier and the top of the back of the Hi-Back Seat, when the factory installed seat is in its rear most locked position. 1 row 'E' logistics track each side at 24" from floor to center of track, surface mount. Dome lamp with rear switch hot wired to battery. Switch shall be mounted near rear door.

Other-Back up alarm, electronic, 95 DBA.

Rear bumper and step-full width with rear chassis lights recessed in bumper.

Grab handles-1 each side.

Nose Cone.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0104 CUT AWAY VAN AND BODY: ALUMINUM VAN-(Non-Insulated),  
(Pre-Painted White or Gray)**

Type-Standard commercial type, not insulated.

Size-Nominal length overall-As specified; use with truck CA's indicated  
(10'-CA 72", 12'-CA 84", 14'-CA 102", 16'-CA 120")

Width Inside-approximately 92 inches

Height Inside-approximately 85 inches

Width Overall-approximately 96 inches (not to exceed)

Height Overall-approximately 91 inches

**BASIC REQUIREMENTS:**

Aluminum side body panels, .040", solid rivets throughout, one piece aluminum roof supported by crowned roof bows, all welded steel rear frame, extruded aluminum posts 16" c-c, floor sill crossmembers 3" (min.) structural channel or 3" Jr. I beam (min.), on 12" centers. Floor shall be supported over wheels, adequate tire clearance shall be provided.

All joints and seams to be weather tight; roof and body corners shall be rounded. Extruded aluminum rub-rails shall be provided along each side of body at the lowest edge of the panels; drip molding over rear door.

Floor shall be constructed of 1-1/8" hardwood, shiplap or tongue and groove, install (2) floor screws each board at intersections with crossmembers.

Floor Extension-12" platform extension, 3/16" diamond tread plate, reinforced with structural steel channel. Extension shall be at same elevation as finished van body floor. (Extensions can be used only on bodies without power tail gates. Delete extension if not applicable.)

Shall have two dome lights with switch unless skylight(s) is specified.

Body shall be equipped with overhead door, unless another type is specified.

Door lock shall be provided, properly installed to insure positive closing action under all operating conditions.

All hardware shall be of heavy duty design. Body shall be mounted with not less than three U bolts on each side of chassis. If body exceeds 16' one additional U bolt shall be installed each side.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

Mich. Spec. # 3958-0104

Shall be equipped with heavy duty bumper step plate beneath rear doors, I.C.C. type. (Delete I.C.C. step bumper if power tailgate is specified.)

Body shall be equipped with all clearance lamps and/or reflectors necessary to conform with the laws of the State of Michigan.

Grab handles on rear, bolt through type.

Filler Strips-Hardwood (rough sawn green oak or beech) or metal filler strips, one piece (full length) shall be installed between body sub-frame and truck frame. Body Mfg. recommended Std.

Aeroquip Series E track, horizontally 36" from floor, installed sides and front. Surface mount.

Lining, sides and front-Shall be plywood; 1/2" on sides, 1/2" on front. A primed and painted 48" high scuff plate of 14 ga. smooth steel shall be installed over the plywood placed on the sides and front of the van body. In back of plywood lining, at front, install full width, a 6" x 6" x 3/8" steel angle bolted through floor.

All items removed from Cab and Chassis by body installer (frame ends, fuel tanks, etc.) remain the property of the State of Michigan and are to be returned with truck.

Nose Cone.

Back up alarm-Electronic type, moisture resistant, approx. 95 dba sound level.

Option:        If agency anticipates truck is to be entered by a fork truck -

Height Inside, should be specified as; approx. 96"

Height Overall, should be specified as; approx. 102"

12 ga. reinforcing plate shall be installed under floor over wheel well area, secured to crossmembers fore and aft.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0105 CUT AWAY VAN AND BODY: F.R.P. VAN-(Non-Insulated), (White)**

Type-Standard commercial type, not insulated.

Size-Nominal length overall-As specified; use with truck CA's indicated  
(10'-CA 72", 12'-CA 84", 14'-CA 102", 16'-CA 120")

Width Inside-approximately 92 inches

Height Inside-approximately 85 inches

Width Overall-approximately 96 inches (not to exceed)

Height Overall-approximately 91 inches

**BASIC REQUIREMENTS:**

5/8" F.R.P. gel coat panels, one piece aluminum roof supported by crowned roof bows, all welded steel rear frame, floor sill crossmembers 3" (min.) structural channel or 3" Jr. I beam (min.), on 12" centers. Floor shall be supported over wheels, adequate tire clearance shall be provided. Minimum 4" min. structural channel or 4" min. Jr. I beam long sills. Rear Door Frame/Post shall be 7 ga. minimum galvanized steel.

All joints and seams to be weather tight; roof and body corners shall be rounded. 0.100 thick extruded aluminum rub-rails shall be provided along each side of body at the lowest edge of the panels; drip molding over rear door.

Floor shall be constructed of 1-1/8" hardwood, shiplap or tongue and groove, install (2) floor screws each board at intersections with crossmembers.

Floor Extension-12" platform extension, 3/16" diamond tread plate, reinforced with structural steel channel. Extension shall be at same elevation as finished van body floor. (Extensions can be used only on bodies without power tail gates. Delete extension if not applicable.)

Shall have two dome lights with switch unless skylight(s) is specified.

Body shall be equipped with overhead door, unless another type is specified.

Door lock shall be provided, properly installed to insure positive closing action under all operating conditions.

All hardware shall be of heavy duty design. Body shall be mounted with not less than three U bolts on each side of chassis. If body exceeds 16' one additional U bolt shall be installed each side.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

Mich. Spec. # 3958-0105

Shall be equipped with heavy duty bumper step plate beneath rear doors, I.C.C. type. (Delete I.C.C. step bumper if power tailgate is specified.)

Body shall be equipped with all clearance lamps and/or reflectors necessary to conform with the laws of the State of Michigan.

Grab handles on rear, bolt through type.

Filler Strips-Hardwood (rough sawn green oak or beech) or metal filler strips, one piece (full length), shall be installed between body sub-frame and truck frame. Body Mfg. recommended Std.

Aeroquip Series E track, horizontally 36" from floor, installed sides and front. Surface mount.

A 48" high scuff plate of 0.80 kemlite shall be installed on the sides and front of the van body. At front, install full width, a 6" x 6" x 3/8" steel angle bolted through floor.

All items removed from Cab and Chassis by body installer (frame ends, fuel tanks, etc.) remain the property of the State of Michigan and are to be returned with truck.

Nose Cone.

Back up alarm-Electronic type, moisture resistant, approx. 95 dba sound level.

Option:        If agency anticipates truck is to be entered by a fork truck -

Height Inside, should be specified as; approx. 96"

Height Overall, should be specified as; approx. 102"

12 ga. reinforcing plate shall be installed under floor over wheel well area, secured to crossmembers fore and aft.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0108 CUT-AWAY VAN AND BODY: DUAL REAR WHEELS, (G.V.W.R. 11,000 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery 12 Volt; 600 CCA, minimum

Mirrors-Rear View, Inside. Outside R.H. and L.H. shall provide full Vision past body installation.

Wrench-Wheel

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys – (1) additional set (total of 3 sets) with code numbers; shall be with the vehicle at the time of delivery.

Seats-High Back, Driver and Passenger

Spare Wheel and Tire

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0109 CUT-AWAY VAN AND BODY: DUAL REAR WHEEL, (G.V.W.R. 14,000 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery 12 Volt; 600 CCA, minimum

Mirrors-Rear View, Inside. Outside R.H. and L.H. shall provide full Vision past body installation.

Wrench-Wheel

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys – (1) additional set (total of 3 sets) with code numbers; shall be with the vehicle at the time of delivery.

Seats-High Back, Driver and Passenger

Spare Wheel and Tire

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0109D CUT-AWAY VAN AND BODY: DUAL REAR WHEEL, DIESEL,  
(G.V.W.R. 14,000 lbs., min.)**

MODEL-2011 CURRENT NEW

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery 12 Volt; 600 CCA, minimum

Mirrors-Rear View, Inside. Outside R.H. and L.H. shall provide full Vision past body installation.

Wrench-Wheel

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Keys – (1) additional set (total of 3 sets) with code numbers; shall be with the vehicle at the time of delivery.

Seats-High Back, Driver and Passenger

Spare Wheel and Tire

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**HEAVY DUTY TRUCKS AND BODIES**

**3958-0110 HEAVY DUTY TRUCKS: CAB AND CHASSIS, (G.V.W.R. 14,500 LBS., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission: Automatic: with maximum capacity transmission oil cooler, Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Battery-12 Volt, 600 CCA, minimum.

Mirrors-Rear View, Inside. Outside R.H. and L.H., below eye level, extended reach, swing away type, 51 sq. in., minimum.

Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Axle Rear Limited slip

Keys – (1) additional set (total of 3 sets) with code numbers; shall be with the vehicle at the time of delivery.

Spare tire and wheel.

Switches, upfitter for auxillary

Throttle, Electronic, High Idle Engine RPM Control.

Towing package: Heaviest duty available from manufacturer (MDOT)

Trailer brake controller, factory installed

Trailer Hitch, Class III Receiver Type

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0111D HEAVY DUTY TRUCKS: CAB AND CHASSIS, DUAL REAR WHEELS,  
DIESEL, (G.V.W.R. 14,500 LBS., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission: Automatic: with maximum capacity transmission oil cooler, Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Axle Rear Limited slip

Keys – (1) additional set (total of 3 sets) with code numbers; shall be with the vehicle at the time of delivery.

Mirrors-Rear View, Inside. Outside R.H. and L.H., below eye level, extended reach, swing away type, 51 sq. in., minimum.

Switches, upfitter for auxillary

Throttle, Electronic, High Idle Engine RPM Control.

Towing package: Heaviest duty available from manufacturer

Trailer brake controller, factory installed

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0112 HEAVY DUTY TRUCKS: CAB AND CHASSIS DUAL REAR WHEELS,  
(G.V.W.R. 14,500 LBS., min.) (4 x 4)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission: Automatic: with maximum capacity transmission oil cooler, Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Axle Rear Limited slip

Hubs autolocking on front

Keys – (1) additional set (total of 3 sets) with code numbers; shall be with the vehicle at the time of delivery.

Mirrors-Rear View, Inside. Outside R.H. and L.H., below eye level, extended reach, swing away type, 51 sq. in., minimum.

Spare tire and wheel.

Switches, upfitter for auxillary

Throttle, Electronic, High Idle Engine RPM Control.

Towing package: Heaviest duty available from manufacturer

Trailer brake controller, factory installed

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0113D HEAVY DUTY TRUCKS: CAB AND CHASSIS DUAL REAR WHEELS,  
DIESEL, (G.V.W.R. 14,500 LBS., min.) (4 x 4)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission: Automatic: with maximum capacity transmission oil cooler, Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed below are to be supplied on all trucks, even though they may be optional with the manufacturer. Therefore, these specifications are to be furnished on all vehicles:

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Axle Rear Limited slip

Hubs autolocking on front

Keys – (1) additional set (total of 3 sets) with code numbers; shall be with the vehicle at the time of delivery.

Mirrors-Rear View, Inside. Outside R.H. and L.H., below eye level, extended reach, swing away type, 51 sq. in., minimum

Spare tire and wheel.

Switches, upfitter for auxillary

Throttle, Electronic, High Idle Engine RPM Control.

Towing package: Heaviest duty available from manufacturer

Trailer brake controller, factory installed

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0114 HEAVY DUTY TRUCKS: CAB AND CHASSIS, (G.V.W.R. 15,000 LBS., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission: Automatic: with maximum capacity transmission oil cooler. Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Axle Rear Limited slip

Hubs autolocking on front

Keys – (1) additional set (total of 3 sets) with code numbers; shall be with the vehicle at the time of delivery.

Mirrors-Rear View, Inside. Outside R.H. and L.H., below eye level, extended reach, swing away type, 51 sq. in., minimum.

Spare tire and wheel.

Switches, upfitter for auxillary

Throttle, Electronic, High Idle Engine RPM Control.

Towing package: Heaviest duty available from manufacturer

Trailer brake controller, factory installed

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0115D HEAVY DUTY TRUCKS: CAB AND CHASSIS DUAL REAR WHEELS,  
DIESEL, (G.V.W.R. 15,000 LBS., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission: Automatic: with maximum capacity transmission oil cooler. Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Axle Rear Limited slip

Hubs autolocking on front

Keys – (1) additional set (total of 3 sets) with code numbers; shall be with the vehicle at the time of delivery.

Mirrors-Rear View, Inside. Outside R.H. and L.H., below eye level, extended reach, swing away type, 51 sq. in., minimum.

Spare tire and wheel.

Switches, upfitter for auxillary

Throttle, Electronic, High Idle Engine RPM Control.

Tires, Truck, Tubeless, Radial, to meet G.V.W.R. Rear duals, mud and snow (Goodyear preferred)

Towing package: Heaviest duty available from manufacturer

Trailer brake controller, factory installed

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0116 HEAVY DUTY TRUCKS: CAB AND CHASSIS, (G.V.W.R. 15,000 LBS., min.) (4 x 4)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission: Automatic: with maximum capacity transmission oil cooler with P.T.O. Provision. Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Axle Rear Limited slip

Hubs autolocking on front

Keys – (1) additional set (total of 3 sets) with code numbers; shall be with the vehicle at the time of delivery.

Mirrors-Rear View, Inside. Outside R.H. and L.H., below eye level, extended reach, swing away type, 51 sq. in., minimum.

Spare tire and wheel.

Switches, upfitter for auxillary

Throttle, Electronic, High Idle Engine RPM Control.

Tires, Truck, Tubeless, Radial, to meet G.V.W.R. Rear duals, mud and snow (Goodyear preferred)

Towing package: Heaviest duty available from manufacturer

Trailer brake controller, factory installed

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0117D HEAVY DUTY TRUCKS: CAB AND CHASSIS, DIESEL, (G.V.W.R.  
15,000 LBS., min.) (4 x 4)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission: Automatic: with maximum capacity transmission oil cooler, Factory installed.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Wrench-wheel.

**ADDITIONAL MDOT OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this MDOT vehicle.

Axle rear limited slip

Hub autolocking on front

Keys – (1) additional set (total of 3 sets) with code numbers; shall be with the vehicle at the time of delivery.

- Mirrors-Rear View, Inside. Outside R.H. and L.H., below eye level, extended reach, swing away type, 51 sq. in., minimum.

Spare tire and wheel.

Switches, upfitter for auxillary

Throttle, Electronic, High Idle Engine RPM Control.

Tires, Truck, Tubeless, Radial, to meet G.V.W.R. Rear duals, mud and snow (Goodyear preferred)

Towing package: Heaviest duty available from manufacturer

Trailer brake controller, factory installed

Transmission: P.T.O. Provision

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0134 HEAVY DUTY TRUCKS: CAB AND CHASSIS, (G.V.W.R. 21,000 lbs., min.), LOW PROFILE**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission: Automatic 5 or 6 speed w/ PTO  
Allison Auto. 2000/2400 Series

Ratio for minimum loaded road speed of approx. 68 mph

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as "STANDARD FACTORY EQUIPPED" and are to be included on this vehicle.

Air Conditioning-Factory Installed

Alternator-100 amp. min., Reference 22SI or approved equal

Battery(s)-12 Volt, 1,100 CCA minimum.

Cab assist handles-right and left.

Fuel Tank-50 gallon each, minimum, L.H. and R.H. Step Tanks.

Hood, Tilt.

Mirrors-Rear View, Outside. L.H. and R.H. West Coast type, 6" x 16", installed, with stainless steel or powder coated steel or composite heads, brackets, and hardware.

Shock Absorbers, Front and Rear

Switches (6), outfitter, with remote power module (MDOT only)

Throttle, Electronic, High Idle Engine RPM Control.

Wheels, Hub Pilot Disc Type

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PURCHASING OPERATIONS**

**3958-0135 HEAVY DUTY TRUCKS: CAB AND CHASSIS (G.V.W.R. 21,000 lbs., min.)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission: 5/6-speed w/ PTO

Allison Auto. 2000/2200RDS Series

Ratio for minimum loaded road speed of approx. 68 mph

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as "STANDARD FACTORY EQUIPPED" and are to be included on this vehicle.

Air Conditioning-Factory Installed

Alternator-100 amp. min., Reference 22SI or approved equal

Battery(s)-12 Volt, 1,100 CCA minimum.

Cab assist handles-right and left.

Fuel Tank-45 gallon each, minimum, L.H. and R.H. Step Tanks.

Hood, Tilt.

Mirrors-Rear View, Outside. L.H. and R.H. West Coast type, 6" x 16".

Shock Absorbers, Front and Rear

Switches (6), outfitter, with remote power module (MDOT only)

Throttle, Electronic, High Idle Engine RPM Control.

Wheels, Hub Pilot Disc Type

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0136D HEAVY DUTY TRUCKS: CAB AND CHASSIS (G.V.W.R. 23,500 lbs.,  
min.), DIESEL**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission: 5/6-speed

Allison w/ PTO Auto. 2000/2400/2200RDS

Ratio for minimum loaded road speed of approx. 68 mph.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed below are to be supplied on all trucks, even though they may be optional with the manufacturer. Therefore, these specifications are to be furnished on all vehicles:

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as "STANDARD FACTORY EQUIPPED" and are to be included on this vehicle.

Alternator-100 amp. min., Reference 22SI or approved equal

Battery(s)-12 Volt; 1,100 CCA minimum.

Brakes-Full air. Current FMVSS. Dust plates. Air dryer with spin on filter, Automatic Drain Valves. Automatic slack adjusters.

Cab assist handles-right and left.

Fuel/Water Separator with Heater.

Fuel Tanks-45 gallon each L.H. and R.H. Step tanks.

Heater-engine block, 110/120 VAC

Hood, Tilt.

Mirrors, Rear View-Outside. L.H. & R.H. West Coast Type. 6" x 16", installed, with stainless steel or powder coated steel heads, brackets, and hardware.

Shock absorbers-Front and Rear, double acting, telescopic.

Starting Aid-Cold weather, ether type or glow plug.

Switches (6), outfitter, with remote power module (MDOT only)

Throttle, Electronic, High Idle Engine RPM Control.

Wheels-Hub Piloted disc.

**STATE OF MICHIGAN  
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PURCHASING OPERATIONS**

**3958-0137 HEAVY DUTY TRUCKS: 12 FT. STAKE BODY**

Type & Size of Body: Approx. 12 Ft. Stake.

Platform to be of non-skid tread plate, 1/8" minimum.

Stake pockets to of 12 gauge steel. Complete with removable racks (approx. 42 in. high) front, rear and sides. Steel slats, 14 ga. (min.)

Steel rub-rail. Longitudinal sill, 6" (min.) structural steel channels. Crossmembers, 3" min. structural channel or 3" Jr. I beam (min.) on 12" centers.

Body to be: Omaha  
Knapheide  
Midwest  
Park Hurst  
Supreme  
or approved equal.

Mounting- Shall include 3 U-bolts per side, plus 2 shear straps (1 ea. side), minimum of 3/8" x 2-1/2", welded to body long sills and bolted to frame.

Filler Strips- Hardwood (rough sawn green oak or beech) or metal filler strips, one piece, full length, contoured to frame shall be installed between body sub-frame and truck frame on all body installations. Discontinuous filler strips acceptable on cab & chassis with humped frame rails. Body Mfg., recommended Std.

Back up Alarm- Electronic type, moisture resistant, approx. 95 dba sound level.

Mud Flaps- Plain, Anti Sail Type, including Anti-Sail Hardware. (No advertising either side.)

Color- To be same as Cab and Chassis. Stake rack to match chassis, platform shall be black.

Rear Bumper- I.C.C. type; delete if power tail gate is specified.

Lights- To be equipped with all L.E.D. type clearance lamps and/or reflectors necessary to conform with laws of the State of Michigan.

Body Vendor to install body, mud flaps, side, front and rear clearance lamps, all reflectors, and relocate rear turn signals, if necessary.

All items removed from cab and chassis by body installer (frame ends, fuel tanks, etc.) remain the property of the State of Michigan and are to be returned with truck.

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PURCHASING OPERATIONS**

**3958-0141 HEAVY DUTY TRUCKS: 12 FT. STAKE BODY AND HYDRAULIC  
HOIST**

Type & Size of Body: Approx. 12 Ft. Stake.

Structural steel long sills, 6" (min.). Platform to be non-skid tread plate, 1/8" min. Stake pockets are to be of 12 gauge steel. Complete with removable racks; front, rear, and sides, steel slats, 14 ga. (min.). Racks to be approximately 42 inches in height. Crossmembers, 3" (min.) structural channel or 3" jr. I beam (min.) on 12" centers.

Body to be: Knapheide

Omaha  
Midwest  
Park Hurst

Supreme  
or approved equal.

Hoist N.T.E.A. Class D, double acting. Hot shift P.T.O. with overspeed control device and direct drive mount pump Muncie or Chelsea. To include manually operated, in cab controlled momentary electric rocker switch, spring return to neutral and in dash P.T.O. engaged light. System pressure shall be compatible with hoist to allow lifting of fully loaded body. 25 micron filtration with full flow ball valves between reservoir and pump and reservoir and filter.

Back up alarm-Electronic type, moisture resistant, approx. 95 dba sound level.

Shall be equipped with a blocking device permanently attached, capable of being locked in position to prevent inadvertent lowering of body during maintenance or inspection work.

Filler Strips-Hardwood (rough sawn green oak or beech) or metal filler strips, one piece, full length, contoured to frame shall be installed between body sub-frame and truck frame on all body installations. Discontinuous filler strips acceptable on cab & chassis with humped frame rails. Body Mfg., recommended Stnd.

Mud Flaps-Plain, Anti Sail Type, including Anti-Sail Hardware. (No advertising either side.)

Color-To be same as cab and chassis. Stake rack to match chassis, platform shall be black.

Lights-To be equipped with all L.E.D. type clearance lamps and/or reflectors necessary to conform with laws of the State of Michigan.

Body Vendor to install body and hoist, mud flaps, side, front and rear clearance lamps, all reflectors, and relocate rear turn signals, if necessary.

All items removed from cab and chassis by body installer (frame ends, fuel tanks, etc.) remain the property of the State of Michigan and are to be returned with truck.

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PURCHASING OPERATIONS**

**3958-0158 HEAVY DUTY TRUCKS: DUMP BODY AND HYDRAULIC HOIST**

Type and Size of body: Dump with approximately 5-6 yard capacity vertical side braces and 2-gate braces. Width, minimum 7'0". Length-approximately 10 ft. Body-8 ga. steel floor, sides and ends. Continuous welding, except structural members to sheet metal. 5' long sills, 4" crossmembers; structural channel. Top rail shall be fully boxed. Full depth rear corner post. Side boards, 2"x6" rough sawn green oak.

Hoist-N.T.E.A. Class 50, type V, or VII full subframe. Floor-mounted lever controls. Dump body control lever shall be equipped with a neutral lock device. Shall be equipped with a blocking device permanently attached, capable of being locked in position to prevent inadvertent lowering of body during maintenance or inspection.

Back up alarm-Electronic type, moisture resistant, approx. 95 dba sound level.

Running Boards and Tail gate Braces-Dirt shedder type.

Cab Protector-48" x 84", continuous welds, 8 ga.

Mud Flaps-Plain, Anti Sail Type, including Anti-Sail Hardware. (No advertising either side.)

Hardware-Mfg. standard, flush hardware acceptable.

Color-To be same as Cab and Chassis.

Pintle hook-Rear mount, 25,000 lb. capacity with adequate bracing bolted to frame rails. (Holland T-100). Mounted at Frame Height.

Tail gate chains-Mfg. Standard.

Lights-To be equipped with all L.E.D. type clearance lamps and/or reflectors necessary to conform with laws of the State of Michigan.

Body-Vendor to install body, hoist and all hydraulics; mud flaps, side, front and rear clearance lamps; all reflectors; and relocate rear turn signals, if necessary.

Clearance lights to be rubber mounted with Lexan lens, recessed in body. Wire to be in loom or wiring harness.

Hydraulics for dump body and underbody blade to be installed by body Vendor.

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PURCHASING OPERATIONS**

Mich. Spec. # 3958-0158

Hydraulics-Central system designed to operate: 1) dump body hoist; 2) underbody scraper vertical; 3) underbody scraper reverse. Pump shall be Hydreco Model 1515 (3/4" shaft, min.) or equal pump with cast iron center section. Pressure shall be compatible with equipment bid, mounted on front bumper and operated by engine crankshaft through "Spicer" drive line. System shall provide full flow oil bypass circuit, shut-off with full flow ball valves at inlet and outlet and 25 micron filter with replaceable element. All valves shall be sectional valves adequate for intended use and have system relief setting compatible with equipment, with adjustable relief on scraper down port. Floor mounted combination lever actuated sealed cable controls; with protective bonnet.

All unused valve ports shall be plugged with steel plugs.

Tanks- 1 ea. 80 gallon (fuel) and 1 ea. 26 gallon (oil) reservoir, mounted back of cab. Fuel tank shall have sending unit and fuel drain plug; oil reservoir shall have oil drain plug and lockable cap. Tanks shall have mounted three (3) inches behind cab and have three (3) inch clearance from body. (Space required approximately eighteen (18) inches.)

All items removed from cab and chassis by body installer (frame ends, fuel tanks, etc.) remain the property of the State of Michigan and are to be returned with truck.

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DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0160D HEAVY DUTY TRUCKS: CAB AND CHASSIS (G.V.W.R. 33,000 lbs., min.), DIESEL**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission:

6-Speed, Allison 3000RDS or 3500RDS

Ratios for minimum loaded road speed of approx. 68 mph.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as "STANDARD FACTORY EQUIPPED" and are to be included on this vehicle.

Alternator-100 amp., minimum, Reference 22SI or approved equal.

Battery(s)-12 Volt; 1,250 CCA minimum.

Brakes-Full air. Current FMVSS. Dust plates. Air dryer with spin on filter, Automatic Drain Valves. Automatic slack adjusters.

Cab assist handles-right and left.

Engine Safety Devices-Warning light and audible alarm system activated when engine oil pressure falls below safe operating limit or when water temperature exceeds safe operating limit. Automatic engine shut-down with low oil pressure or high coolant temperature.

Frame-Resisting bending moment 1,275,200 in.-lbs., min., Single Rail Frame

Fuel Tanks-50 gallon each L.H. & R.H., center step tanks.

Fuel/Water Separator with Heater.

Heater-Engine block, 110/120 VAC

Hood, Tilt type, with Butterfly Opening.

Horns-Dual, air, Single Base, with Covers.

Mirrors, Rear View, Outside. L.H. & R.H. West Coast Type, 6" x 16", installed, with stainless steel, powder coated steel, or composite heads, brackets, and hardware.

Shock absorbers, Heavy Duty, Front and Rear.

Starting Aid-Cold weather, ether type or glow plug.

Switches (6), outfitter, with remote power module (MDOT only)

Throttle, Electronic, High Idle Engine RPM Control.

Wheels-Hub Piloted disc.

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DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0161 HEAVY DUTY TRUCKS: 14 FT. STAKE BODY**

Type and Size of Body:       Approx. 14 ft stake.  
Platform to be of non-skid tread plate, 1/8" minimum. Stake pockets to be of 12 gauge steel. Complete with removable racks (approximately 42" high) front, rear and sides. Steel slats, 14 ga. (min.).

Steel rub-rail. Longitudinal sills 6" (min.) structural steel channels. Crossmembers, 3" (min.) structural channel or 3" Jr. I beam (min.), on 12" centers.

Body to be:   Omaha  
              Knapheide  
              Midwest  
              Park Hurst  
              Supreme  
              or approved equal.

Mounting- Shall include 3 U-bolts per side, plus 2 shear straps (1 ea. side), min. 3/8" x 2-1/2", welded to body long sills and bolted to frame.

Filler Strips- Hardwood (rough sawn green oak or beech) or metal filler strips, one piece, full length, contoured to frame shall be installed between body sub-frame and truck frame on all body installations. Discontinuous filler strips acceptable on cab & chassis with humped frame rails. Body Mfg., recommended Stnd.

Back up alarm- Electronic type, moisture resistant approx. 95 dba sound level.

Mud Flaps- Plain, Anti Sail Type, including Anti-Sail Hardware. (No advertising either side.)

Color- Same as Cab and Chassis. Stake rack to match chassis, platform shall be black.

Rear Bumper- I.C.C. type; delete if power tail gate is specified.

Lights- To be equipped with all L.E.D. type clearance lamps and/or reflectors necessary to conform with laws  
of the State of Michigan.

Body Vendor to install body, mud flaps, side, front and rear clearance lamps, all reflectors, and relocate rear turn signals, if necessary.

All items removed from cab and chassis by body installer (frame ends, fuel tanks, etc.) remain the property of the State of Michigan and are to be returned with truck.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0164D HEAVY DUTY TRUCKS: CAB AND CHASSIS (G.V.W.R. 27,000 LBS.,  
MIN.), DIESEL**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission: 5/6 speed, Allison Auto, 2000/2350HS series

Axle: road speed of approx. 68 mph.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer (refer to page B).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as "STANDARD FACTORY EQUIPPED" and are to be included on this vehicle.

Alternator-100 amp., minimum, Reference 22SI or approved equal.

Battery(s)-12 Volts; 1500 CCA, Min.

Brakes-Full air. Current FMVSS. Dust plates. Air dryer with spin on filter, Automatic Drain Valves. Automatic slack adjusters.

Cab assist handles-right and left.

Exhaust (PIPE ONLY) - Vertical installation.

Fuel Tanks-L.H. and R.H. 45 (min.) gallon tanks, frame mounted.

Fuel/Water Separator with Heater.

Heater-Engine block, 110/120 VAC

Hood, Tilt.

Horns-Electric, dual.

Mirrors-Rear View, Outside. L.H. and R.H. West Coast type. 6' x 16"; installed, with stainless steel or powder coated steel heads, brackets, and hardware.

Oil Seals (wet)-front axle.

Shock absorbers, Heavy Duty, Front and Rear.

Starting Aid-Cold weather, ether type or glow plug.

Switches (6), outfitter, with remote power module (MDOT)

Throttle, Electronic, High Idle Engine RPM Control.

Wheels-Hub Piloted disc.

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PURCHASING OPERATIONS**

**3958-0165 HEAVY DUTY TRUCKS: 20 FT. ALUMINUM VAN BODY,  
PRE-PAINTED WHITE OR GRAY**

Type-Van. (Non-Insulated)

Size-Nominal length overall-20 ft.

Width overall-approx. 96 inches (Not to exceed)

Height overall-approx. 103 inches

Width inside-approx. 92 inches

Height inside-approx. 96 inches

Basic Requirements-Aluminum side body panels .040", solid rivets

through-out, one piece aluminum roof supported by crowned roof bows, all welded steel rear frame, extruded aluminum posts 16" c-c, steel floor sills; cross members on 12" centers. Floor shall be supported over wheels, adequate tire clearance shall be provided.

Aeroquip Series E track, horizontally 36" from floor, installed sides and front. Surface mount.

Lining, Sides and Front-Shall be plywood; 1/2" on sides, 1/2" on front. A primed and painted 48" scuff plate of 14 ga. smooth steel shall be installed over the plywood placed on the sides and front of the van body. In back of plywood lining at front, install full width, a 6" x 6" x 3/8" steel angle bolted through floor.

All joints and seams to be weather tight. Body corners shall be rounded.

Extruded aluminum rub-rails shall be provided along each side of the body at the lower edge of the body; drip molding over rear doors.

Roof to be equipped with two skylights, 16" dia., located at the 1/3 points on the longitudinal centerline of the roof.

The floor shall be 1-1/8" treated hardwood.

Floor to be clear, i.e., no wheel housings.

Floor shall be covered with 11 ga. steel diamond floor plate.

Rear Door-Upward acting type, manufacturer's standard.

Mud Flaps-Plain, Anti Sail Type, including Anti-Sail Hardware. (No advertising either side.)

Floor Extension-12" platform extension, 12 ga. diamond tread plate, adequately reinforced.

Extension shall be at same elevation as finished Van body floor. (Extensions can be used only on bodies without power tail gates. Delete extension if not applicable.)

Bumper-ICC step type, delete bumper if power tail gate is specified.

Lights-To be equipped with all L.E.D. type clearance lamps and/or reflectors necessary to conform with laws of the State of Michigan.

Body Vendor to install body, mud flaps, side, front and rear clearance lamps and/or reflectors. Shall also re-install tail lights if necessary.

Filler strips-Hardwood (rough sawn green oak or beech) or metal filler strips, one piece, full length, contoured to frame shall be installed between body sub-frame and truck frame. Body Mfg. recommended Stnd.

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PURCHASING OPERATIONS**

Mich. Spec. # 3958-0165

All items removed from Cab and Chassis by body installer (frame ends, fuel tanks, etc.) remain the property of the State of Michigan and are to be returned with truck.

Back up alarm-Electronic type, moisture resistant, approx. 95 dba sound level.

Grab handles on rear, bolt through type.

Nose cone.

Body shall be mounted with not less than four (4) "U" bolts per side.

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DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958-0167 HEAVY DUTY TRUCKS: 20 FT. F.R.P. VAN BODY, PRE-PAINTED  
WHITE OR GRAY**

Type-Van. (Non-Insulated)

Size-Nominal length overall-20 ft.

Width overall-approx. 96 inches (Not to exceed)

Height overall-approx. 103 inches

Width inside-approx. 92 inches

Height inside-approx. 96 inches

Basic Requirements-5/8" F.R.P. gel coat panels, one piece aluminum roof supported by crowned roof bows, all welded steel rear frame, 4" min. I beam floor long sills; 3" min. I beam cross members on 12" centers. Floor shall be supported over wheels, adequate tire clearance shall be provided.

Aeroquip Series E track, horizontally 36" from floor, installed sides and front. Surface mount.

Scuff Plate-A primed and painted 48" scuff plate of 0.80 kemlite shall be on the sides and front of the van body. At front, install full width, a 6" x 6" x 3/8" steel angle bolted through floor.

All joints and seams to be weather tight. Body corners shall be rounded.

0.10 thick extruded aluminum rub-rails shall be provided along each side of the body at the lower edge of the body; drip molding over rear doors.

Roof to be equipped with two skylights, 16" dia., located at the 1/3 points on the longitudinal centerline of the roof. Approximate 12" radius aluminum front cap.

The floor shall be 1-1/8" treated hardwood.

Floor to be clear, i.e., no wheel housings.

Floor shall be covered wt. 11 ga. steel diamond floor plate.

Rear Door-Upward acting type, manufacturer's standard.

Mud Flaps-Plain, Anti Sail Type, including Anti-Sail Hardware. (No advertising either side.)

Floor Extension-12" platform extension, 12 ga. diamond tread plate, adequately reinforced.

Extension shall be at same elevation as finished van body floor. (Extensions can be used only on bodies without power tail gates. Delete extension if not applicable.)

Bumper-ICC step type, delete bumper if power tail gate is specified.

Lights-To be equipped with all L.E.D. type clearance lamps and/or reflectors necessary to conform with laws of the State of Michigan.

Body Vendor to install body, mud flaps, side, front and rear clearance lamps and/or reflectors. Shall also re-install tail lights if necessary.

Filler strips-Hardwood (rough sawn green oak or beech) or metal filler strips, one piece, full length, contoured to frame shall be installed between body sub-frame and truck frame. Body Mfg. recommended Std.

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

Mich. Spec. # 3958-0167

All items removed from Cab and Chassis by body installer (frame ends, fuel tanks, etc.) remain the property of the State of Michigan and are to be returned with truck.

Back up alarm-Electronic type, moisture resistant, approx. 95 dba sound level.

Grab handles on rear, bolt through type.

Nose cone.

Body shall be mounted with not less than four (4) "U" bolts per side.

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DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**3958--0170D HEAVY DUTY TRUCKS: CAB AND CHASSIS (G.V.W.R. 44,000 lbs.,  
min.), 305 H.P. DIESEL ENGINE, SINGLE AXLE, DIESEL**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Wheelbase Approx. 186 (inches)

C.A. 112 to 114 (inches)

Axle to End of Frame 75 (inches)

Engine: Diesel

Gross H.P.-305 min.

Torque, Gross 1150 minimum

Transmission

Allison -4500RDS, wide ratio,  
6 speed, Transmission shifter to be dash  
mounted push button.

Single speed with driver controlled  
differential lock

Ratio for minimum loaded  
road speed of approx. 68 mph.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as "STANDARD FACTORY EQUIPPED" and are to be included on this vehicle.

Air Conditioning: Factory Installed

Air Cleaner with integral snow valve and in-cab control.

Alternator-135 amp., minimum, Reference 34SI or approved equal.

Air filter restriction gauge, dash mounted, Filter Minder #3781-325.

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Mich. Spec. # 3958-0170D

**Air Horn**

Battery(s)-12 Volt, 2775 Minimum

Battery Box must be mounted 35" back of cab or under cab with a 24" ground clearance.

- Battery Cable: The negative battery cable shall be run from the batteries to the engine block. This shall be a full length cable and be 00 gauge.

Brakes-Sealed Air Brake Chambers, Full air. Effective lining area 625 square inch, minimum, cast brake shoes. Air compressor 18.7 cfm, min. Air reservoir 2,000 cubic inch, minimum.

Buzzer type low pressure continuous warning device. Air pressure gauge visible to driver.

Check valve or equivalent safety device between reservoir tank(s). Spring loaded diaphragm type rear wheel parking brake. Air dryer with spin on filter, mounted outside of frame rail.

Automatic Drain Valves. Automatic slack adjusters. Brake and electrical connections to end of frame, are to be semi-four wheel trailer connections with seven wire electrical cable, mounted on rear cross member at end of frame.

Bumper, Front; 11" x 3" x 1/4" channel, 90" straight center section and

3" beveled ends. Channel ends to be enclosed with 1/4" thick steel plate. Straight channel acceptable. Sharp corners shall be ground smooth. Bumper shall be bolted to main frame rails.

Cab assist handles-left and right, with full length external grab handles.

- Cab Interior: The cab inside length shall be at least 52.4 inches. A cab extension shall be provided as needed.

Cab mounted – Air Suspension Type.

Cab-to-end of frame-proper length to accommodate an 11 foot dump box mounted 18" back of cab. The 18" space is required for fuel tank mounting.

**Cigar Lighter**

Color-Orange acrylic enamel to match PPG Concept DCC605-10 or equal.

Bumper and frame to be painted black.

Crankshaft-Crankshaft shall be drilled and tapped for a Spicer driveline, opening for drive line to be under radiator.

- Dash, Ergonomic type, angled towards driver
- Defrost Duct: Shall be installed for passenger side window.

Directional Signals-Rear to be special combination, turn signal, stop and tail-lights; standard canceling type. To be furnished by truck Vendor.

**Dome Light in Cab.**

Electrical Connections: Body Builders package, easily accessible to cab

Engine Air Breather-Provide a manual control (inside cab) for outside air intake.

Engine Block Heater, 120v/1500 watt with "Y" cord for fuel heater, cord to operate both

Engine Safety Devices-Warning light and audible alarm system activated when engine oil pressure falls below safe operating limit or when water temperature exceeds safe operating limit. Automatic engine shut-down with low oil pressure or high coolant temperature.

Exhaust System: a) Shall meet "scraper mounting clearance".

Shall be vertical stack fitted with heat shield and mounted outside of frame rails to accommodate fuel tank mounting per Mich. Spec. 3958-0171.

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Mich. Spec. # 3958-0170D

Any exhaust modification necessary to meet ground clearance or any other specification requirement shall be done with manufacturer's standard parts available through regular dealer parts inventories.

Any necessary exhaust modifications shall be subject to approval by authorized state personnel. In addition to all requirements listed in Spec. 3958-0170 the exhaust shall exit the right side of the engine, the muffler shall be horizontally mounted under the cab on the right side, the tail pipe shall be vertically mounted on the right side directly beside the cab. The vertical pipe shall be supported by a frame mounted bracket. The tail pipe shall not be attached to the cab.

Fan clutch-Viscous type, thermostatic control or clutch type.

Frame-Straight rail, full length channel, frame, cross section 10.866" x 3.622" x 0.433" minimum. Section Modulus at point of maximum stress (Single Rail 22.12m section modulus 2,654,400 RBM, 120,000 PSI) 15.9 minimum (120,000 psi yield strength steel). All bolts heads shall be flush with frame surface from a point 64" forward of the rear axle centerline to a point 96" forward of the rear axle centerline.

Frame-Straight through type with mfg. standard integral extension, shall extend 20" in front of grill.

- Frame Length: The frame shall extended 187 in. min. from the back of the cab. This shall provide full support of 11 Ft. Dump Body mounted 18 in. behind cab.

Fuel tank-Transport tank only.

Fuel/Water Separator with Heater.

Gauges-Voltmeter or Ammeter, oil pressure, coolant temperature, tachometer, and transmission oil temperature.

Headlights-halogen type, with dimmer included in turn signal switch.

Heater-Engine block, 110/120 VAC

Hood-Tilt type with stationary grill, with accessory hatches to check and fill fluids without tilting hood.

Hourmeter, mounted in dash or under hood. To operate only when engine is running, oil pressure activated.

Line Setting Ticket: Furnish Two (2) copies with each cab and chassis delivered.

Locks-Cab Door. Keyed the same as the ignition switch with (3) keys provided.

Mirrors-Rear View, Outside. L.H. & R.H. West Coast type, Electric Heated, Power Adjustable, Dual Axis, 6" x 16" style, with stainless steel, composite or powder coated steel heads, brackets, and hardware.

Mud Flaps-Plain, Anti Sail Type, including Anti-Sail Hardware. (No advertising either side.) mounted behind front wheels.

- Oil Cooler, water to oil type
- Power Terminal Stud: A 12 volt power terminal shall be installed on the firewall under the hood. This shall be unfused and connection to 12 volt power at the starter solenoid with 6 gauge cable. The stud shall be 5/16 in. Diameter minimum and threaded for a standard nut. The stud shall be insulated from the firewall and have a removable insulated cover. This shall be mounted in an easily accessible position. This will be used to power lights and other electrical items installed by M-DOT.

Radio, AM/FM

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Radiator-Petcock type drain fitting.

Running boards shall be furnished in addition to any concealed steps.

Scraper mounting Clearance-In the area between the rear edge of the front fender and 40" rear of the cab, there shall be a minimum of 24" of ground clearance. Minimum ground clearance shall not be exceeded with a payload of 20,000 lbs.

Drive-line center bearing carrier, running boards, battery box, air tanks and exhaust system shall meet the 24" minimum ground clearance requirement.

Seats-High Back Bucket, both Driver and Passenger - Both must be Air Suspension, with adjustable Lumbar Back Support and folding arm rests.

Starting Motor: Leece Neville, MS2

Steering-Power, with tilt column.

- Switches, Twelve additional factory installed dash mounted switches for electrical equipment installed by MDOT.

Throttle, Electronic, High Idle Engine RPM Control.

- Trailer light cord socket: shall be sealed in the rear with a seven (7) wire cord.
- Vehicle Warranty: The cab and chassis furnished with this bid will be placed in service approximately 270 days after delivery. M-DOT will advise the vendor in writing of the actual in-service dates and as part of the purchase agreement, the vendor is to assure that the manufacturer's records reflect these in service dates.

Wheels-Rim width 12.25 DC Front, 8.25" Rear, Hub Piloted Disc, Heavy Duty Disc Type with Hand Holds

- Wheel Hubs: Front wheel hubs to be oil lubricated, clear caps with fill plugs, filled with 75W90 Synthetic Oil.

Windows-Power, both switches to be easily accessible to driver.

- Wiring, Two way radio pre-wiring
- Wiring: Dash switched for hood mounted snow plow headlights. Wiring with connectors to be coiled under hood. Snow plow headlights to be supplied and installed by M-DOT.

Warranty: To begin with date vehicle is placed in service. This will be approximately 270 days after delivery to MDOT. MDOT will advise the contractor, in writing, of the actual in-service dates and the contractor must insure that the manufacturer's records accurately reflect the service dates.

The successful bidder shall provide a minimum of eight hours training at a central M-DOT location, to M-DOT mechanics on the servicing and repair of new technology componentry, particularly electronic related.

It shall be the Vendor's responsibility to hold a vehicle pilot inspection at his manufacturing facility and furnish adequate transportation and lodging (if required) for four (4) personnel from the State of Michigan, before production. This inspection shall be held within 120 days of award.

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**3958-0171 HEAVY DUTY TRUCKS: DUMP BODY AND HYDRAULIC HOIST**

Type and Size of Body: Dump with approximately 6.5 cu. yd. capacity (inside measurement) width, 84" (Min.) Length 132" (Min.). Body-Side Headsheet shall be (10) gauge steel and the Floor shall be (8) gauge steel, of no less than 18/25 carbon content. Top longitudinal rails shall be spot welded Box Type.

Rear corner posts of body to be full depth extending over body rub rail, and joining to a section that will in turn form a full rear bolster across the rear of the body. Rear bolster to cover exposed ends of body longitudinal rails.

There shall be a 4" channel under the floor at the extreme front and rear of the body for added rigidity.

Body to have crossmembers of either 4" I-Beam or 4" channel welded to floor of body and located on no less than 5" channel. Head sheet of body to be formed or reinforced at approximately the horizontal midpoint for rigidity.

Front, head sides and tail gate height-28".

Sides and front head sheet to be reinforced with a Box Type top rail formed into the side and head sheet steel panels. Triple flange not acceptable in that it will tend to collect and hold dirt, salt and debris.

Each side to be reinforced with a minimum of three (3) box type or sloped and tapered vertical braces (not to include the rear corner post).vertical braces must fit under flanged top rail, to within no less than 1/4" from flat top section of top rail and be welded to vertical braces, including rear post. To be continuous to prevent dirt, water and salt from entering.

Bottom of braces to be drilled to provide 1/2" drain holes.

Type and Size of Body: Cab Protector: Full protector, eight (8) gauge.

Tail Gate: Not less than 8 gauge, 18/25 carbon steel; double acting (opening from top or bottom). Heavy-duty support chains anchored to exterior of body, and heavy-duty tail gate latch operable by hand lever control at the left corner of body.

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Tail Gate Hardware: to be of the following minimum dimensions.

1" dia. hinge pin  
7/8" plate top gate hinge  
5/16" spreader chain  
3/8" outer latch plates  
1-1/4" dia. bottom gate pin  
forged steel gate hood

Tail gate to have fully boxed perimeter bracing and a minimum of two vertical braces. Welding to be continuous on all top surface horizontal joints. Bottom surface horizontal joints to have a minimum of 4" long stitch welds on no less than a 12" center line.

Hoist: N.T.E.A. Class 50 Full subframe lifting capacity-12 tons (Min.).  
Cylinder, diameter 7 1/2", dumping angle-50 degrees to 55 degrees.

Hydraulic hoist to be single cylinder, double acting, with double lift arm. Hoist must be shown and rated in the latest applicable N.T.E.A. Hoist Classification Chart.

Cylinder ports must be threaded as follows:

- (a) 2-3/4" NPT in the pressure line double acting
- (b) 1-3/4" NPT in the return line

A minimum of 20" of clear open space in the hoist frame must be maintained between forward end of main cylinder and front edge of dump box. Opening is needed for MDOT to mount all necessary hydraulic components.

Hoist to be provided with stop blocks, to be located at time of installation, to prevent hoist from raising past dump angle.  
Hoist to have full subframe, subframe to extend 18" past front of body, i.e., to back of cab.

Cylinder to have removable head and adjustable packing glad nut around the rod.

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Color-Body shall be painted same color as cab and chassis; both inside and out. Rub rails, subframe and hoist shall be painted black.

Mud Flaps-Plain, Anti Sail Type, including Anti-Sail Hardware. (No advertising either side.)

Lights-To be equipped with all L.E.D. type clearance lamps and/or reflectors necessary to conform with laws of the State of Michigan.

Body-Vendor to install body, hoist, mud flaps, side, front and rear clearance lamps; all reflectors; and relocate rear turn signals, if necessary.

Clearance lights to be rubber mounted with Lexan lens, recessed in body.  
Wire to be in loom or wiring harness.

Tanks-Combination 80 gallon fuel tank approximately 30" x 12" x 72" and 26 gallon oil reservoir approximately 30" x 12" x 17" mounted 3" behind the cab and with 3" clearance to the dump body (space required approximately 18 inches). Tanks are to be mounted with equal overhang from each frame rail with 9" vertical clearance between bottom of tank and tops of frame rails.

The fuel tank is to have a sending unit and magnetic drain plug and is to be painted with Dupont Centari #4694A Holly Green.

Oil Reservoir is to have an oil magnetic drain plug, lockable cap and combination level and heat gauge (Hydro-Craft #HSG-55 or equal) mounted approximately 6" from the top of reservoir to top hole in gauge. Suction line 2" shall enter tank from bottom and extend 1" upward. Return line 1¼" shall enter bottom of tank and extend 4" upward, suction and return line shall be approx. 5" apart C. to C. Reservoir is to be painted with Dupont Centari 76931-AM.

Fuel tank and oil reservoir are to be fabricated from #7 gauge steel, pressure tested for leaks and F.H.A. labeled.

Supporting frame for tanks shall be self draining and installed with metal/metal contact of framework. All straps and tanks shall be insulated against metal/metal contact.

All items removed from cab and chassis by body installer (frame ends, fuel tanks, etc.) remain the property of the State of Michigan and are to be returned with truck.

**HYDRAULIC SYSTEM IS NOT INCLUDED IN THIS SPECIFICATION.**

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**3958-0172D HEAVY DUTY TRUCKS: CAB AND CHASSIS (G.V.W.R. 64,000 lbs., min.) TANDEM AXLE, 370 H.P. DIESEL ENGINE, WALKING BEAM AND SPRING SUSPENSION**

MODEL-2011 CURRENT NEW

Wheelbase 211 (inches) min.

C.T. 136 (inches) min,

Engine: Diesel

Gross H.P.-370 min.

No. of Cylinders: 6

Torque, Gross 1,450 min.

Transmission: 6-speed,  
Allison -4500RDS with dash mounted  
Control push button

Axle, Min. Cap.-lbs.

Front, 18,000 min.

Rear, 46,000 min.

Ratio for minimum loaded  
road speed of approx. 68 mph.  
With driver controlled differential lock

Springs, Min. Cap. at Ground

Front-lbs. each, 9,000 min.

Multileaf Type with Shock Absorbers

Rear-lbs., 46,000 min. Hendrickson

RT-463

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Mich. Spec. # 3958-0172D

Tires, Truck, Tubeless, Radial, To match GVWR. Front to be Highway Tread, Rear duals-Traction Drive Tread. Same Mfg. Front and Rear (Goodyear preferred)

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer (refer to page B).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as "STANDARD FACTORY EQUIPPED" and are to be included on this vehicle.

Air Conditioning: Factory Installed

Alternator-135 amp., minimum, Reference 34SI or approved equal.

Air filter restriction gauge, dash mounted, Filter Minder #3781-325.

Air Horn

Battery(s)-12 Volt, 2700 CCA, Minimum

Battery Box must be mounted 35" back of cab or under cab with a 24" ground clearance.

- Battery Cable: The negative battery cable shall be run from the batteries to the engine block. This shall be a full length cable and be 00 gauge.

Brakes-Sealed Air Brake Chambers, Full air. Effective lining area 625 square inch, minimum. compressor 18.7 cfm, min. Air reservoir 2,000 cubic inch, minimum. Buzzer type low pressure continuous warning device. Air pressure gauge visible to driver. Check valve or equivalent safety device between reservoir tank(s). Spring loaded diaphragm type rear wheel parking brake. Air dryer with spin on filter, mounted outside of frame rail. Automatic Drain Valves. Automatic slack adjusters. Brake and electrical connections to end of frame, are to be semi-four wheel trailer connections with seven wire electrical cable, mounted on rear cross member at end of frame.

Bumper, Front; 11" x 3" x 1/4" channel, 90" straight center section and 3" beveled ends. Channel ends to be enclosed with 1/4" thick steel plate. Straight channel acceptable. Sharp corners shall be ground smooth. Bumper shall be bolted to main frame rails.

- Cab assist handles-left and right. Plus full length left side external grab handles.
- Cab Interior: The cab inside length shall be at least 52.4 inches. A cab extension shall be provided as needed.

Cab mounted, Air Suspension Type.

Cab-to-end of frame-proper length to accommodate an 14 foot dump box mounted 18" back of cab. The 18" space is required for fuel tank mounting.

Cigar Lighter

Color-Orange acrylic enamel to match Dupont Centari 76931-AM.

Bumper and frame to be painted black.

Crankshaft-Crankshaft shall be drilled and tapped for a Spicer driveline, opening for drive line to be under radiator.

- Dash, Ergonomic type, angled towards driver
- Defrost Duct: Shall be installed for passenger side window.

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Mich. Spec. # 3958-0172D

Directional Signals-Rear to be special combination, turn signal, stop and tail-lights; standard canceling type. To be furnished by truck Vendor.

Dome Light in Cab.

Engine Air Breather-Provide a manual control (inside cab) for outside air intake.

Engine Block Heater, 120v/1500 watt with "Y" cord for fuel heater, cord to operate both Electrical Connections; Body Builders Package easily accessible to cab.

Body builder wiring to be standard back of cab at left frame including sealed connectors for tail/amber turn/marker/backup/accessory power/ ground and stop/turn

Engine Safety Devices-Warning light and audible alarm system activated when engine oil pressure falls below safe operating limit or when water temperature exceeds safe operating limit. Automatic engine shut-down with low oil pressure or high coolant temperature.

Exhaust System: a) Shall meet "scraper mounting clearance".

Shall be vertical stack fitted with heat shield and mounted outside of frame rails to accommodate fuel tank mounting per Mich. Spec. 3958-0171.

Any exhaust modification necessary to meet ground clearance or any other specification requirement shall be done with manufacturer's standard parts available through regular dealer parts inventories.

Any necessary exhaust modifications shall be subject to approval by authorized state personnel.

In addition to all requirements listed in Spec. 3958-0170 the exhaust shall exit the right side of the engine, the muffler shall be horizontally mounted under the cab on the right side, the tail pipe shall be vertically mounted on the right side directly beside the cab. The vertical pipe shall be supported by a frame mounted bracket. The tail pipe shall not be attached to the cab.

Fan clutch-Viscous type, thermostatic control or clutch type.

Frame-Straight rail, full length channel, frame cross section 10.866" x 3.622" x 0433" at point of maximum stress Single Rail 22.125m, 2,654,400 RBM, 120,000 PSI. All bolts heads shall be flush with frame surface from a point 64" forward of the rear axle centerline to a point 96" forward of the rear axle centerline.

Frame-Straight through type with mfg. standard integral extension, shall extend 20" in front of grill.

Frame Length: The frame shall extend 213 in. min. from the back of the cab. This shall provide full support of 14 Ft. Dump Body mounted 18 in. behind cab.

Fuel tank-Transport tank only.

Fuel/Water Separator with Heater. Davco Fuel Pro #382 #382040

Gauges-Voltmeter or Ammeter, oil pressure, coolant temperature, tachometer, and transmission oil temperature.

Headlights-halogen type, with dimmer included in turn signal switch.

Heater-Engine block, 110/120 VAC

Hood-Tilt type with stationary grill, with accessory hatches to check and fill fluids without tilting hood.

Hourmeter, mounted in dash or under hood. To operate only when engine is running.

Locks-Cab Door. Keyed the same as ignition – furnish (3) keys

Line Setting Ticket: Furnish Two (2) copies with each cab and chassis delivered.

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Mich. Spec. # 3958-0172D

Mirrors-Rear View, Outside. L.H. & R.H. West Coast type, 6" x 16" style, Electric Heated, Power Adjustable, Dual Axis, with stainless steel, composite or powder coated steel heads, brackets, and hardware.

Mud Flaps-Plain, Anti Sail Type, including Anti-Sail Hardware. (No advertising either side.) mounted behind front wheels.

Oil Cooler: Water to oil type

Power Terminal Stud: A 12 volt power terminal shall be installed on the firewall under the hood. This shall be unfused and connection to 12 volt power at the starter solenoid with 6 gauge cable. The stud shall be 5/16 in. Diameter minimum and threaded for a standard nut. The stud shall be insulated from the firewall and have a removable insulated cover. This shall be mounted in an easily accessible position. This will be used to power lights and other electrical items installed by M-DOT.

Radiator-Petcock type drain fitting.

Running boards shall be furnished in addition to any concealed steps.

Scraper mounting Clearance-In the area between the rear edge of the front fender and 40" rear of the cab, there shall be a minimum of 24" of ground clearance. Minimum ground clearance shall not be exceeded with a payload of 20,000 lbs. Drive-line center bearing carrier, running boards, battery box, air tanks and exhaust system shall meet the 24" minimum ground clearance requirement.

Seats-High Back Bucket, both Driver and Passenger - Air Suspension, with adjustable Lumbar Back Support and folding arm rests.

Starting Motor: Leece Neville, MS2

Steering-Power, with tilt column.

Switches, Twelve additional factory installed dash mounted switches for electrical equipment installed by MDOT.

Throttle, Electronic, High Idle Engine RPM Control.

Trailer light cord socket: shall be sealed in the rear with a seven (7) wire cord. Single wires in a split loom will not be acceptable.

Vehicle Warranty: The cab and chassis furnished with this bid will be placed in service approximately 270 days after delivery. M-DOT will advise the vendor in writing of the actual in-service dates and as part of the purchase agreement, the vendor is to assure that the manufacturer's records reflect these in service dates.

Wheels-Rim width 12.25" DC Front, 8.25" Rear, Hub Piloted Disc, Heavy Duty Disc Type with Hand Holds

Wheel Hubs: Front wheel hubs to be oil lubricated, clear caps with fill plugs, filled with 75W90 Synthetic Oil.

Windows-Power, both switches to be easily accessible to driver.

Wiring, Two way radio pre-wiring

**Wiring: Dash switched for hood mounted snow plow headlights. Wiring with connectors to be coiled under hood. Snow plow headlights to be supplied and installed by M-DOT.**

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Warranty: To begin with date vehicle is placed in service. This will be approximately 270 days after delivery to MDOT. MDOT will advise the contractor, in writing, of the actual in-service dates and the contractor must insure that the manufacturer's records accurately reflect the service dates.

The successful bidder shall provide a minimum of eight hours training at a central M-DOT location, to M-DOT mechanics on the servicing and repair of new technology componentry, particularly electronic related.

It shall be the Vendor's responsibility to hold a vehicle pilot inspection at his manufacturing facility and furnish adequate transportation and lodging (if required) for four (4) personnel from the State of Michigan, before production. This inspection shall be held within 120 days of award.

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**3958-0173D HEAVY DUTY TRUCKS: CAB AND CHASSIS (G.V.W.R. 52,000 lbs., min.), TANDEM-Diesel Engine, (Not Intended to be equipped with an Underbody Snow Plow)**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Transmission: 6-speed,  
Allison –4500RDS with dash mounted  
Control push button  
Axle: Ratio for minimum loaded  
road speed of approx. 68 mph.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as “STANDARD FACTORY EQUIPPED” and are to be included on this vehicle.

Alternator-130 amp., minimum, Reference 34SI or approved equal.  
Arm Rests-R.H. and L.H.  
Battery(s)-12 Volt; 1500 CCA minimum  
Brakes-Full air. Current FMVSS. Spring set rear wheel parking brake. Air reserve tank.  
Low air pressure buzzer, 12 cfm compressor. Air dryer with spin on filter, Automatic Drain Valves. Dust plates. Automatic slacks adjusters. Brake and electrical connections to end of frame, are to be semi four wheel trailer connections with 7 wire electrical cable, mounted on rear cross member at end of frame.  
Provide male and female connectors, loose in cab.  
Cab assist handles-right and left.  
Engine Safety Devices-Warning light and audible alarm system activated when engine oil pressure falls below safe operating limit or when water temperature exceeds safe operating limit. Automatic engine shut-down with low oil pressure or high coolant temperature.  
Fan Clutch-Thermostatic viscous type or clutch type.  
Frame-Resisting bending moment 2,654,000 in-lb., min.  
Fuel/Water Separator with Heater.  
Fuel tanks-50 gal. each step tanks, R.H. and L.H.  
Heater-Engine block, 110/120 VAC

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Mich. Spec. # 3958-0173D

Hood, Tilt.

Horns air.

Mirrors-Rear View, Outside. L.H. & R.H. West Coast Type, 6" x 16". Installed with stainless steel or powder coated steel heads, brackets, and hardware.

Seats-Air suspension, driver and conventional passenger.

Starting Aid-Cold weather, ether type or glow plug.

Steering-Power.

Switches (6), outfitter, with remote power module (MDOT)

Tachometer.

Throttle, Electronic, High Idle Engine RPM Control.

Tow Hooks- Front, Mfg. Std. Turn Signals-Double face.

Wheels-rim width 22.5"X8.25", Hub Piloted Disc, Heavy Duty Disc Type with Hand Holds

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PURCHASING OPERATIONS**

**3958-0174 HEAVY DUTY TRUCKS: DUMP BODY AND HYDRAULIC HOIST**

Type & Size of Body: Dump, approx. 10-12-yard capacity with 12-yard ends, Width, approx. 7'. Length-approx. 13 ft. Body 10 gauge steel; sides, and ends, Floor 1/4" Steel. Continuous welding, except structural members to sheet metal. 7" long sills, 4" crossmembers. Structural channels. Top rail shall be fully boxed. Full depth rear corner post. Six (6) panel tail gate. Cab protector, 48"x84', 8 ga. braced to sides of body. Running boards and tail gate braces dirt shedder type. Sideboards, 2"x6" rough sawn green oak.

Hoist N.T.E.A. Class 80. Type IV Telescopic. Floor mounted lever controls. Dump body controls shall be sealed cable lever type with protective bonnet. P.T.O. engaged light shall be furnished.

Shall be equipped with 2 blocking devices permanently attached, capable of being locked in position to prevent inadvertent lowering of body during maintenance or inspection work.

Back up alarm-Electronic type, moisture resistant, approx. 95 dba sound level.

Power Take-Off-Needle bearing. Chelsea or approved equal.

Mud Flaps-Plain, Anti Sail Type, including Anti-Sail Hardware. (No advertising either side.)

Hardware-Mfg. Standard.

Color-To be same as cab and chassis.

Lights-To be equipped with all L.E.D. type clearance lamps and/or reflectors necessary to conform with laws of the State of Michigan. Clearance lights to be rubber mounted with Lexan lens and recessed in body. Wires to be in loom or wiring harness.

Body Vendor to install body and hoist, mud flaps, side, front and rear clearance lamps, all reflectors, and relocate rear turn signals, if necessary.

All items removed from cab and chassis by body installer (frame ends, fuel tanks, etc.) remain the property of the State of Michigan and are to be returned with truck.

Pintle hook-Rear mount 60,000 lbs. capacity with adequate bracing, bolted to frame rails (Holland 730)

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PURCHASING OPERATIONS**

**3958-0178D HEAVY DUTY TRUCKS: TRACTOR: (G.C.W.R. 70,000 lbs., min.),  
TANDEM AXLE**

MODEL-2011 CURRENT NEW

**PRELIMINARY REQUIREMENTS:**

Axle:

(Air power divider  
control, air shift, dash  
board indicating light)

Ratio for minimum loaded  
road speed of approx. 68 mph.

**TO BE STANDARD FACTORY EQUIPPED AS FOLLOWS:**

The items listed in the general specifications for Truck Equipment are to be supplied on all vehicles, even though they may be optional with the manufacturer ([refer to page B](#)).

**ADDITIONAL OPTIONS:**

These options are in addition to the options listed above as "STANDARD FACTORY EQUIPPED" and are to be included on this vehicle.

Air Conditioning

Alternator-130 amp., minimum, Reference 34SI or approved equal.

Battery(s)-12 Volt; 1,875 CCA minimum.

Brakes-Full air. Current FMVSS. Semi-Trailer connections with breakaway Valve. Dust plates. Air dryer with spin on filter, Automatic Drain Valves. Automatic Slack Adjusters. Cab assist handles-right and left.

Catwalk-Provide grip strut metal catwalk behind cab, full width of frame and approx. 36 inches wide.

Exhaust-Vertical with 90° elbow at top, 12'-10" maximum height.

Fenders-front quarter, rubber or plastic.

Fifth wheel-Air slide with tapered frame and kick plate. 36" track.

Fuel Tanks-R.H. & L.H. step tanks, 150 gallon, min. total capacity.

Fuel/Water Separator with Heater.

Gauges-Voltmeter and oil pressure.

Glass-Tinted all around.

Heater-Engine block, 110/120 VAC

Hood, Tilt.

Horns-Dual, air.

Jumper Light Cord and Hose Mounted on back of cab. Light cord to be equipped with 7-way plug.

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Mich. Spec. #            3958-0178D

Mirrors-Rear View, Outside. L.H. & R.H. West Coast Type, 6" x 16", Installed with stainless steel or powder coated steel heads, brackets, and hardware.

Mud Flaps-Plain, Anti Sail Type, including Anti-Sail Hardware. (No advertising either side.)

Oil seals (wet) - front and rear axle

Radiator fan-Viscous drive or clutch type.

Seats-air suspension, cloth, high back.

Silicon hoses-heater and radiator.

Starting Aid-Cold weather, Ether type.

Steering-Power.

Switches (6), outfitter, with remote power module (MDOT)

Tachometer.

Tow Hooks-front, frame mounted.

Wheels-Hub Piloted disc .

**STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS**

**TAIL GATES**

**3958-0215      HYDRAULIC POWER TAIL GATE-CONVENTIONAL TYPE, 2,000#  
Capacity (15,000 G.V.W.R. and above)**

Type-            Standard truck body hydraulic power tail gate, P.T.O. (hot shift type) or electric driven. Lift platform deck surface to be non-skid steel. Operator control(s) mounted both sides, deadman type, grease fittings at all pivot points, removable cylinder, platform shall automatically mechanically latch in both loading and travel position, a load lock hydraulic line valve located so as to prevent a sudden drop of the lift gate due to burst hydraulic line is acceptable in lieu of a mechanical auto latch for the loading position. Hydraulic power close.

Platform Type-Ramp edge

Platform Depth-(± 3") 35", 41", and 53" (includes ramp).

Platform Width-(± 3") 90" and 84".

Minimum Lift Capacity-2,000 lbs. (May exceed the 2,000 lb. capacity to conform with manufacturer's rating for platform sizes specified.)

Gate Power System-P.T.O. (hot shift type) with overspeed control device or electric/hydraulic with operation by separate deep cycle battery. Install in battery box with cover. Battery to charge from truck electrical system. Battery capacity min. 105AH.

If electric the power unit shall be mounted as high as possible between the frame rails and the pump enclosure shall be hard formed plastic or metal.

Agency to specify power system.

Vendor to install tail gate to chassis, furnish and mount hydraulic pump and connect to P.T.O. or electric power unit. Gate shall be mounted so that when in raised (horizontal) position the platform is flush with body floor. If PTO operated, furnish PTO engaged indicator light, dash mounted. Steel tail gates shall be satin primed and painted black.

Furnish and install heavy duty stirrup steps, both sides, constructed of structural steel.

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**3958-0216    HYDRAULIC POWER TAIL GATE-CONVENTIONAL TYPE, 3,000#  
Capacity (20,000 G.V.W.R. and above)**

Type-            Standard truck body hydraulic power tail gate. Lift platform deck surface to be non-skid steel. Operator control(s) mounted both sides, deadman type, grease fittings at all pivot points, removable cylinder, platform shall automatically mechanically latch in travel both loading and travel position, a load lock hydraulic line valve located so as to prevent a sudden drop of the lift gate due to burst hydraulic line is acceptable in lieu of a mechanical auto latch for the loading position. Hydraulic power close.

Platform Type-Ramp edge.

Platform Depth-(± 3") 35", 41", and 53" (includes ramp).

Platform Width-(± 3") 90" and 84".

Minimum Lift Capacity-3,000 lbs. (May exceed the 3,000 lb. capacity to conform with manufacturer's rating for platform sizes specified.)

Gate Power System-P.T.O. (hot shift type) with overspeed control device or electric/hydraulic with operation by separate deep cycle battery. Install in battery box with cover. Battery to charge from truck electrical system. Battery capacity min. 105 A.H.

If electric the power unit shall be mounted as high as possible between the frame rails and the pump enclosure shall be hard formed plastic or metal.

Agency to specify power system.

Vendor to install tail gate to chassis, furnish and mount hydraulic pump and connect to P.T.O. or electric power unit. Gate shall be mounted so that when in raised (horizontal) position the platform is flush with body floor. If PTO operated, furnish PTO engaged indicator light, dash mounted. Steel tail gates shall be satin primed and painted black.

Furnish and install heavy duty stirrup steps, both sides, constructed of structural steel.

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**3958-0217    HYDRAULIC POWER TAIL GATE-CONVENTIONAL TYPE, 4,000#  
Capacity (20,000 G.V.W.R. and above)**

Type- Standard truck body hydraulic power tail gate. Lift platform deck surface to be non-skid steel. Operator control(s) mounted both sides, deadman type, grease fittings at all pivot points, removable cylinder, platform shall automatically mechanically latch in both loading and travel position, a load lock hydraulic line valve located so as to prevent a sudden drop of the lift gate due to a burst hydraulic line is acceptable in lieu of a mechanical auto latch for the loading position. Hydraulic power close.

Platform Type-Ramp edge.

Platform Depth-(± 3") 35", 41" and 53" (includes ramp).

Platform Width-(± 3") 90" and 84".

Minimum Lift Capacity-4,000 lbs. (May exceed the 4,000 lb. capacity to conform with manufacturer's rating for platform sizes specified.)

Gate Power System- P.T.O. (hot shift type) with overspeed control device or electric/hydraulic with operation by separate deep cycle battery. Install in battery box with cover. Battery to charge from truck electrical system. Battery capacity min. 105 A.H.

If electric the power unit shall be mounted as high as possible between the frame rails and the pump enclosure shall be hard formed plastic or metal.

Agency to specify power system.

Vendor to install tail gate to chassis, furnish and mount hydraulic pump and connect to P.T.O. or electric power unit. Gate shall be mounted so that when in raised (horizontal) position the platform is flush with body floor. If PTO operated furnish PTO engaged indicator light, dash mounted. Steel tail gates shall be satin primed and painted black.

Furnish and install heavy duty stirrup steps, both sides, constructed of structural steel.

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**3958-0218    HYDRAULIC POWER TAIL GATE, Stow-Away Type (15,000 G.V.W.R. and above)**

Type- Stow-away type, folds under truck bed; P.T.O. (hot shift type) or electric driven, platform deck surface to be non-skid metal. Operator control(s) mounted both sides, deadman type, power down, grease fittings at all pivot points, cylinder rod shall be in retracted position when gate is in stowed position, removable cylinder, platform shall automatically mechanically latch in both loading and travel position, a load lock hydraulic line Valve located so as to prevent a sudden drop of the lift gate due to a burst hydraulic line is acceptable in lieu of a mechanical auto latch for the loading position. Furnish Snubber kit. Lift gate to include 8" floor extension.

Platform Type-Ramp edge.

Stirrup steps and dock bumper, both sides. Stirrup steps shall be structural steel, dock bumper shall be 6"x12"x3"d rubber.

Platform Depth-(± 3") 30" and 42" (includes ramp).

Platform Width-(± 3") 72" minimum.

Specify Lift Capacity-2,500 lbs., or 3,000 lbs.

Gate Power System-P.T.O. (hot shift type) with overspeed control device or electric/hydraulic with operation by a separate deep cycle battery. Install in battery box with cover. Battery to charge from truck electrical system. Battery capacity min. 105 A.H.

If electric the power unit shall be mounted as high as possible between the frame rails and the pump enclosure shall be hard formed plastic or metal.

Agency to specify power system.

Vendor to install tail gate to chassis, furnish and mount hydraulic pump and connect to P.T.O. or electric power unit and furnish and install tailgate protective dock bumpers.

Installation-Gate shall be mounted so that when in raised (horizontal) position the platform is flush with body floor; if gate is to be mounted in conjunction with van body and floor extension, the finished van body floor, and floor extension shall be at the same elevation. If PTO operated, furnish PTO engaged indicator light, dash mounted. Steel tail gates shall be satin primed and painted black.

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**3958-0219    HYDRAULIC POWER TAIL GATE (Van Type or Pick-Up), 1,000#  
Capacity (10,000 G.V.W.R. or less)**

Type- Top mount or rail for parcel vans and Pick-Ups, platform deck surface to be non-skid tread plate. Torsion bar gate fold assistance. Grease fittings at all pivot points, platform shall be mechanically latched in travel position, operator controls -- deadman type.

Platform Size-± 3"

52" x 31" plus 5" ramp edge.

60" x 31" plus 5" ramp edge.

72" x 34" plus 5" ramp edge.

86" x 34" plus 5" ramp edge.

Platform Width must be compatible with door opening.

Power-Electric Hydraulic shall be totally enclosed. Controls shall be externally mounted.

Tail Lights-To be visible with gate in up or down position. If any portion of tail lights are obstructed by gate mounting it is Vendor's responsibility to install an auxiliary tail light kit.

Gate shall be mounted so that when is raised (horizontal) position the platform is flush with body floor.

Specify, if required, lift height if above truck tailgate. (Multiple height loading to "X" above ground required.) Gate shall be satin primed and painted black.

Note: Adequate bracing for upper tail gate mounting to rear of vehicle shall be furnished (to prevent damage to Vehicle sheet metal in tail light area). Design is subject to approval of the Motor Transport Division, State of Michigan.

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**3958-0220    HYDRAULIC POWER TAIL GATE (Fold-Up type or Tuck Away type),  
1500# minimum Capacity-Agency to specify type required**

Type- Frame mount for 10,000# G.V.W.R. chassis or smaller stake body; grease fittings at all pivot points.

Platform type-Ramp edge/diamond tread construction.

Platform Size-± 3"

78" X 32" plus ramp

84" x 32" " "      Fold-Up

90" x 32" " "

72" x 32" " "      Tuck-Away (can't be used with 9' or 10')  
(stake bodies)

Platform Width must be compatible with body width.

Power-Electric Hydraulic, power unit shall be mounted as high as possible between frame rails and totally enclosed. (except tank)

Controls-To operate from either side, deadman type.

Tail Lights-To be visible with gate in up or down position.

Gate shall be mounted so that when in raised (horizontal) position the platform is flush with body floor. Gate shall be satin primed and painted black.

Furnish and install heavy duty stirrups steps, constructed of structural steel.

On Tuck-away gates rubber dock bumpers 6" x 12" H x 3"d shall be furnished.

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**3958-0221    HYDRAULIC POWER TAIL GATE, RAIL TYPE**

Type - Rail type, platform shall remain level during both raise and lower operation.

Platform deck surface to be diamond tread material. Operator control(s) mounted both sides, deadman type. Torsion assist platform closure.

Platform Type-Ramp edge.

Capacities and Platform Sizes: (Agency shall specify)

<u>Capacity</u>	<u>Platform Size (+ 3")</u>	<u>Truck G.V.W.R. Rating</u>
1,250	30" x 86"	11,000 lbs. and above
1,600	36" x 90"	11,000 lbs. and above
2,000	36" x 90"	15,000 lbs. to 20,000 lbs.
3,000	36" x 90"	15,000 lbs. and above
4,000	42" x 90"	20,000 lbs. and above

P.T.O.-P.T.O. (hot shift type) with overspeed control device or electric/hydraulic with operation by a separate deep cycle battery. Install in battery box with cover. Battery to charge from truck electrical system. Battery capacity min. 105 A.H.

If electric the power unit shall be mounted as high as possible between the frame rails and the pump enclosure shall be hard formed plastic or metal.

Agency to specify power system.

Tail lights shall be visible with gate in up or down position.

Vendor to install tail gate to chassis, furnish and mount hydraulic pump and connect to P.T.O. or electric power unit and furnish and install tailgate protective dock bumpers. Steel tail gates shall be satin primed and painted black.

Note: If above truck bed lift is required, agency shall specify.