

Fed Std 307BB

July 1, 2022

**Superseding Fed Std 307BA
August 1, 2021**

FEDERAL STANDARD

**TRUCKS: LIGHT, COMMERCIAL, 4X2 and 4X4
4,000 lbs to 19,999 lbs GVWR**

This draft dated 17 March 2022, prepared by GSA-FAS has not been approved and is subject to modification. DO NOT USE FOR ACQUISITION PURPOSES.

1. SCOPE AND CLASSIFICATION

1.1 SCOPE

This document covers commercially available, 2023 or newer model year, two and four wheel driven, light trucks of less than 20,000 lb GVWR and associated optional equipment. Types include pickup trucks, sport utility vehicles, and passenger, cargo, and delivery vans. Also included are chassis and cab, and trucks equipped with vocational bodies.

1.2 PURPOSE

The purpose of this document is to achieve a practical degree of standardization within the Federal Government's automotive fleet and to simplify competitive procurement of vehicles. This Standard establishes various types and sizes of trucks, and general equipment requirements.

1.3 COVERAGE

This Federal Standard covers only those vehicles generally acquired competitively by the Federal Government and does not include all the varieties of the commodity indicated by the title. Additional requirements and deviations for special purpose vehicles may be submitted in accordance with Sections 6.3 and 6.4. Approved modifications will be included in the solicitations for offers, contract, or amendments. All vehicle procurements must comply with the Federal Management Regulations (FMR) and the Federal Acquisition Regulations (FAR). The vehicles covered by this standard are listed by standard item numbers. The item descriptions, minimums, options and manufacturer data can be viewed online in AutoChoice & on the FAS website.

1.4 CLASSIFICATION

The vehicle's characteristics, components, equipment, and options shall be based upon the chassis manufacturer's make and model offered, NTEA weight classes and data that is required by the U.S. Environmental Protection Agency (EPA), Department of Energy (DOE), and other applicable regulatory agencies.

The data shall be verifiable in the vehicle's and body/equipment manufacturer's publications.

1.5 FUEL ECONOMY & GREENHOUSE GAS SCORES

Agencies are encouraged to use fuel mileage ratings and greenhouse gas scores as a factor in the selection of their vehicles. Miles per gallon ratings for all vehicles of less than 8,500 lb GVWR are available in AutoChoice under the OTHER FEATURES tab or on the EPA website at www.fueleconomy.gov.

2. APPLICABLE DOCUMENTS

2.1 APPLICABLE REFERENCES

When published references are stated they shall be of the issue in effect on the date of the solicitation for offers or request for proposals.

2.1.1 ORDER OF PRECEDENCE

In the event of a conflict between this standard and an applicable reference, this standard shall take precedence.

2.2 ABBREVIATIONS AND DEFINITIONS

<u>The following are the abbreviations and their meanings, as they appear in this standard:</u>	
ABS	Antilock Braking System
ALT	Alternate/Alternative
AREQ.....	Additional Requirements
AMP.....	Ampere
AUTO	Automatic
AWD	All Wheel Drive
AWDC	All Wheel Drive Conversion
BAT	Battery
CA	Cab to Axle Dimension
CCA.....	Cold Cranking Amps
CVT.....	Continuously Variable
.....	Transmission
EV.....	Electric Vehicle
FMVSS	Federal Motor Vehicle Safety
	Standard(s)
FMR.....	Federal Management
	Regulation(s)
GAWR	Gross Axle Weight Rating
GCWR	Gross Combined Weight
	Rating
GVWR	Gross Vehicle Weight Rating
HD	Heavy Duty
HEV	Hybrid Electric Vehicle
HP	Horsepower
HWY	Highway
MAN	Manual
MAX.....	Maximum
MFR.....	Manufacturer(s)
MIN.....	Minimum
MPG	Miles Per Gallon
MPH	Miles Per Hour
OEM	Original Equipment
	Manufacturer('s)
PASS.....	Passengers
PHEV.....	Plug-in Hybrid Electric
	Vehicle
PTO.....	Power Take Off
RWD	Rear Wheel Drive
SAE	Society of Automotive
	Engineers
WB.....	Wheel Base Dimension
4X2	Two Wheel Drive
4X4	Four Wheel Drive

3. REQUIREMENTS

3.1 DESIGN

These requirements apply to all OEM furnished complete or incomplete vehicles and vocational body trucks. The section on vocational body trucks has additional requirements that pertain to vocational body trucks only.

3.1.1 VEHICLES

The vehicles and the related equipment furnished under this document shall be the vehicle manufacturer's current production. The vehicle(s) offered shall be as shown under the Federal Standard "Item Number." Vehicle(s) shall be complete with all the necessary operating components and accessories customarily furnished to the general public, whether stipulated herein or not, together with such modifications and accessories as may be necessary or are specified herein to enable the vehicle to function reliably and efficiently in sustained operation from -20 degrees F to +110 degrees F.

3.1.2 VEHICLE EQUIPMENT AND ACCESSORIES

The vehicle, components, assemblies, and accessories to be delivered under the contract shall be standard or optional commercial products that meet or exceed the requirements specified. They shall comply with all Federal Motor Vehicle Safety Standards (FMVSS), EPA regulations, and state and local regulations applicable to the specified vehicle on the date of manufacture. In addition, the vehicle(s) shall be furnished with the equipment, systems, and accessories as specified by the option codes. Option codes are defined in the text of the standard, or are self-explanatory, as generally used in the automotive industry. All components and optional items shall be as represented in the manufacturer's current model year technical data. Technical data shall be limited to specifications and technical material identical to that furnished to

the authorized company representatives for selection of vehicle models and components. When a specified component or accessory is available in the chassis manufacturer's sales/engineering data, the vehicle shall be so equipped with the OEM item. The OEM component parts of the vehicle need not be the products of the same manufacturer. Optional and standard equipment ordered shall be installed, serviced, and ready for use.

3.1.3 RECOVERED MATERIALS/REGULATORY REQUIREMENTS

In accordance with section 23.403 of the Federal Acquisition Regulations (FAR), the Government's policy is to acquire items composed of the highest percentage of recovered materials practical, consistent with maintaining a satisfactory level of competition without adversely affecting performance requirements or exposing suppliers' employees to undue hazards from the recovered materials. The term "recovered materials" means materials that have been collected or recovered from solid waste and reprocessed to become a source of raw materials, as opposed to virgin raw materials. None of the above shall be interpreted to mean that the use of used or rebuilt products is allowed under this document. The use of re-refined oil shall not be prohibited. This does not prohibit chassis manufacturers from using performance criteria for acceptable oil. Any re-refined oil product shall meet the performance criteria of the vehicle and component manufacturers.

3.2 VEHICLE, COMPONENTS, AND SYSTEMS

GSA encourages the reduction and elimination of all hydrofluorocarbon (HFC) refrigerants utilized for HVAC (Air Conditioning) systems and encourages the use of alternative refrigerants to the maximum extent possible in all light duty vehicles procured for Federal motor vehicle fleets.

GSA encourages vendors to provide factory equipped active and passive collision avoidance/safety systems in all light duty vehicles procured for Federal motor vehicle fleets

3.2.1 CURB WEIGHT

The curb weight of the vehicle is defined as the weight of the complete vehicle without payload. Curb weight shall include the chassis, cab and body, all permanently attached devices, equipment, and a full complement of fuel, lubricants, and coolants.

3.2.2 PAYLOAD CAPACITY

The payload specified for each Item Number is defined as the minimum net weight for occupants and body/cargo carrying capacity, with the minimum equipment as specified. It does not include optional equipment that may be ordered. The ordering agency is responsible for loading the vehicle so that the front axle weight, rear axle weight and GVWR are not exceeded. Occupant weight shall be calculated at 150 lb (175 lb for vocational body trucks) each, unless otherwise specified. The payload shall be evenly distributed in accordance with the vehicle design and intended use.

NOTE: PAYLOAD IS REDUCED BY THE WEIGHT OF EACH ADDED OPTION!!!

3.2.3 GROSS VEHICLE WEIGHT RATING (GVWR)

The gross vehicle weight rating is the maximum, fully loaded weight of a vehicle. The minimum GVWR of a vehicle furnished shall comply with payload shown for each Item Number, and shall be at least the sum of the curb weight and the payload capacity specified. Manufacturers shall provide a rating label showing the actual GVWR of the vehicle furnished. The chassis manufacturer's maximum GVWR, shown on the certification label, shall not be increased.

3.2.4 WHEELBASE

Unless specified or required by the CA dimension, the wheelbase shall be the chassis manufacturer's shortest for the type and model specified.

3.2.5 SPEED AND GRADEABILITY

The vehicle shall maintain a speed of 65 mph on a smooth, hard-surfaced, and level road. From a standing start the vehicle shall ascend a 20 percent grade. The vehicle shall perform as stated when equipped with all specified options and loaded to the GVWR, and the air conditioner compressor is engaged. These requirements are in addition to the minimum engine size and transmission type shown.

3.2.6 EMISSION CONTROL SYSTEM.

Vehicles destined for all states shall comply with Environmental Protection Agency (EPA) Regulations governing Control of Air Pollution from New Motor Vehicles and New Motor Vehicle Engines in effect on the date of manufacture and with state requirements for which the vehicles are destined.

The vehicle and engine shall conform to 40 CFR Subchapter C-Part 86 - "Control of Emissions from New and In-use Highway Vehicles and Engines", as evidenced by an EPA certificate of compliance. Vehicles shall also comply with all pollution control requirements for the state of final destination. Certificates of compliance shall be made available upon request.

3.2.7 FUEL SYSTEM

The fuel system shall conform to all applicable FMVSS, FMCSR and EPA requirements. The fuel tank(s) shall be protected by a metal shield when available from the OEM, or be located in an area which will be free from hazards of off-road operation. (Example: tanks located between frame rails or more than 15 in ground clearance.) The fuel fill pipe shall be protected against deformation by body or component installation. A fuel gauge shall be provided which accurately indicates total remaining fuel.

3.2.8 COOLING SYSTEM

A coolant overflow recovery tank and compensating system shall be furnished. The cooling system shall be protected with an OEM solution of extended life antifreeze/coolant. The antifreeze/coolant shall comply with ASTM standard D3306 or D6210 (diesel engines) as required. The cooling system shall be filled with a 50% concentration of glycol-base antifreeze coolant. The supplier shall provide the OEM maximum size cooling system for the engine provided.

3.2.9 BRAKE SYSTEM

All vehicles furnished shall be equipped with the OEM power assisted, self-adjusting, front and rear wheels, antilock braking system (ABS).

3.3 DRIVETRAIN

3.3.1 ENGINE

The engine furnished shall have the minimum horsepower and torque specified. When specified that the vehicle(s) will be exported, the engine shall also comply with 3.8.6, Overseas Vehicle Requirements.

3.3.2 TRANSMISSION

3.3.2.1 CODE "T2" AUTOMATIC TRANSMISSION

The OEM standard production automatic transmission shall be provided.

3.3.2.1.1 AUTOMATIC TRANSMISSION FLUID COOLER

The OEM standard automatic transmission fluid cooler shall be provided.

3.3.2.2 RESERVED

3.3.2.2.1 RESERVED

3.3.3 TRANSFER CASE

The transfer case shall be of the type that will provide a part-time (selective) four-wheel drive system. When available from the OEM protective skid plates or shields shall be provided on all 4X4 vehicles and when specified (code SP).

3.3.4 DRIVE HUBS, FRONT WHEELS

The OEM heaviest duty available 4X4 full time or front wheel locking system engaged from the cab shall be furnished.

3.3.5 DIFFERENTIAL TYPE/RATIO

The differential type/ratio information furnished under the “**Drive Axle**” heading in AutoChoice & the Federal Vehicle Standards applies to the basic vehicle as described for each standard item. Optional engines, transmissions, etc that are selected may result in a change to the type/ratio information furnished for the basic vehicle.

3.4 SUSPENSION SYSTEM

3.4.1 SUSPENSION

The vehicle shall be equipped with a suspension system (axles, springs, wheels and tires) having a rated capacity equal to or in excess of the GVWR. All vehicles shall be furnished with OEM heaviest duty available springs, shock absorbers, and stabilizer device(s).

3.4.2 SPRING STOPS

The spring and/or axle stops furnished shall prevent the axle and other suspension components from striking any part of the chassis or body.

3.4.3 WHEELS, TIRES, and TIRE TREADS

Tires suitable for on road use shall be furnished as a minimum, as applicable to the GVWR of vehicle. The wheel and tire size shall be furnished as specified by each OEM. Wheels and tires shall be of the identical size, type, brand, and load range. All tires shall have radial construction.

OEMs tires shall be furnished. Aftermarket tires are not permitted.

The tires furnished will be of the passenger car, light truck, or truck type depending on the GVWR of the vehicle.

Tires designed for severe snow use, per the ASTM F-1805 snow traction test, are not covered by this standard.

TIRE TYPES

Passenger (P) vehicle tires are graded according to the Department of Transportation's Uniform Tire Quality Grading (UTQG) System. They are graded by tread wear, traction, and temperature. Passenger vehicle tires include only one load range, the Standard Load Rating. As noted above, OEMs may provide passenger vehicle tires as standard equipment.

Light Truck (LT) tires are rated in three load ranges: C, D, and E with E being the highest load rating. These

tires are rated for maximum loads for both single and dual configurations at specific temperatures and pressures. Light truck tires are typically more durable as compared to passenger vehicle tires when furnished on the same type of vehicle. As noted above, OEMs may provide light truck type tires as standard equipment. On select lower GVWR full size pickups, light truck tires may be offered as an option.

Truck tires are larger and wider than passenger and light truck tires. They typically have additional steel belts and a deeper tread depth. Truck tires are provided on Class 4 and Class 5 vehicles, vehicles with a GVWR between 14,001 to 19,500 lbs for the purpose of this standard.

TIRE TREADS For vehicles with a GVWR of 14,000 lbs or less

The All Season (AS) tread is best suited for on-road use. All season tires are intended to be used year-round in wet, dry and moderate snow conditions and other conditions found on-road. The all-season tread pattern is less aggressive than the all-terrain tread, resulting in longer life, improved ride comfort and reduced tire noise when used on-road as compared to the all-terrain tread. In some cases, the OEMs may not offer the AS tread as standard equipment.

The All-Terrain (AT) tread is suitable for both on-road and off-road use. This tread is available on Passenger (P) vehicle and Light Truck (LT) tires. The All-Terrain (AT) tread is intended to perform well under a variety of conditions found off-road while still providing acceptable on-road performance. This tread pattern is more aggressive and may improve traction off-road, but will result in shorter tire life, decreased ride comfort and increased tire noise, vibration and harshness (NVH) on-road. The All-Terrain (AT) tread is offered as an option on many vehicles. The OEMs may provide All Terrain (AT) tread as standard equipment.

NOTE: For the purposes of this standard and vehicle ordering, the reference and use of the terms on-road/off-road (O/O, OO) and all terrain (AT, A/T) are the same.

A Tire Pressure Monitoring System shall be provided on all single rear wheeled vehicles.

TIRE TREADS For vehicles with a GVWR of 14,001 to 19,500 lbs

For 4X2 vehicles truck tires with Highway treads shall be furnished on both axles

For 4X4 vehicles, truck tires with Highway tread shall be furnished on the front axle and truck tires with Traction tread shall be furnished on the rear axle.

When furnished, the spare tire may match the tires on the front or rear axle.

3.4.3.1 SPARE TIRES

When available from the OEM as standard equipment or as an option, a spare assembly (a tire mounted on a wheel) shall be furnished as a part of the basic (minimum) vehicle. The spare tire will typically be similar to the tires furnished on the steering axle. The spare tire may not match in tread pattern or tire dimensions.

Aftermarket spare tires shall not be furnished.

If a full size spare assembly is not offered by the OEM, a space saver type spare assembly shall be furnished if offered by the OEM as standard or an option.

If the OEM does not offer a full size or space saver type spare assembly, no spare assembly shall be furnished.

When spare tire assemblies are mounted inside of passenger vans and sport utility vehicles, a cover shall be furnished for the spare tire.

NOTE: Spare tire assemblies for vehicles with tire pressure monitoring systems may not have monitoring devices if the OEM does not offer them.

3.5 ELECTRICAL

3.5.1 ALTERNATOR AND BATTERY

When additional electrical power consuming equipment is furnished, the chassis manufacturer shall provide a generating system capable of supplying the total continuous electrical load at normal engine idle for the equipment furnished with the completed vehicle. Intermittent loads such as winches, lift gates, and dump hoists are not included as continuous electrical load. The supplier shall furnish the vehicle with OEM component(s) available for the model (item) having ratings of not less than as specified. Batteries furnished shall be of the maintenance-free type.

3.6 CAB/BODY, EQUIPMENT AND ACCESSORIES

3.6.1 CAB AND CAB/BODY

Cabs shall be of the conventional type. The cab, or the cab/body, shall be equipped with, but not limited to, the following:

- a. front doors with manually-operated windows
- b. rear doors and cargo doors, as applicable, with checks or door stops
- c. all latches, with exception of lift gates and end gates, operable from the inside and outside
- d. Driver's side door equipped with external key lock
- e. two sets of keys
- f. upholstery and floor covering, as indicated, of the chassis manufacturer's standard color shades or mixtures compatible with exterior color
- g. seating capacity as stated
- h. tinted glass on all windows, where available from the OEM
- i. chassis manufacturer's standard insulation and sound deadening materials
- j. provisions for mounting front and rear license plates*
- k. Power steering
- l. Intermittent wipers
- m. Tilt steering
- n. Cooling system, maximum capability available.
- o. Shocks, maximum capability available.
- p. Anti- Lock Brakes
- q. Front air bags
- r. Seatbelts for all seated positions

*41 CFR 102-34 requires the display of official U.S. Government license plates on the front and rear of all Government motor vehicles unless otherwise exempt, regardless of state motor vehicle requirements.

3.6.2 CONTROLS AND OPERATING MECHANISMS

Controls and operating mechanisms shall be located for left-hand drive. Equipment controls shall be complete and conveniently located for the driver. Lever controls for specified equipment shall be designed and located to permit easy entrance and of the driver's compartment. Instruments and controls shall be

identified as to their function and installed in a manner to facilitate removal and servicing.

3.6.3 ACCESSORIES, CAB/BODY

The accessories, convenience items, and devices furnished for each vehicle shall include, but not be limited to:

- a. electric power point
- b. gauges
- c. dome light(s)
- d. fresh air type heater with dual defroster
- e. A/C
- f. dual sun visors
- g. armrests
- h. dual windshield wipers/washer
- i. signal lights
- j. inside rear view mirror (not required on dump trucks, cargo vans and multistop vans)
- k. dual outside rear view mirrors
- l. electric horn
- m. outside clearance reflectors when required
- n. tire/wheel changing tools and jack when furnished as standard equipment by the OEM.
- o. Hub caps when furnished as standard equipment by the OEM.
- p. Daytime Running Lights (May be ON/OFF programmable)
- q. OEM AM/FM radio w/auxiliary input
- r. Blue Tooth compatible hands free phone system

3.6.4 PAINT, FINISH, OR COLOR

The vehicle(s) exterior color will be selected from the manufacturer's standard colors offered in AutoChoice. The interior finish shall be manufacturer's standard compatible color with the exterior. All coatings shall be applied in accordance with the coating manufacturer's directives.

3.6.5 MIRRORS, OUTSIDE

Dual OEM outside rearview mirrors shall be provided, one on each side of the vehicle. Only rearview mirrors with a foldaway feature shall be provided. When low mount mirrors are specified, low-mounted or sail-mounted style mirrors with minimum 36 sq in each shall be provided.

3.7 VEHICLE OPTION CODES

The following Option Code detailed requirements are offered for selected options. All other option codes are self-explanatory, as generally used in the automotive industry.

Option codes apply only as indicated in AutoChoice & the Federal Vehicle Standards.

Not all option codes apply to all vehicles.

NOTE: SELECTION OF OPTIONS MAY REQUIRE CHANGES THAT RESULT IN NON-COMPLIANCE WITH THE MINIMUM REQUIREMENTS FOR A STANDARD ITEM. THIS APPLIES TO MINIMUMS DIRECTLY IMPACTED BY THE OPTION

3.7.1. CODE "DALT" DUAL ALTERNATORS

When code DALT is specified, the vehicle shall be equipped with the chassis manufacturer's dual alternator system.

3.7.2 CODE "AC" AIR CONDITIONING AND CODE "AC2" - AUXILIARY REAR AIR CONDITIONING

When code AC is specified, the vehicle shall be equipped with the chassis manufacturer's standard dehumidifying/all weather air conditioner. The air conditioning system shall include, but shall not be limited to increased engine cooling capacity, alternator and battery capacities, and insulation (headliner, firewalls, and side panels) as available for the model furnished.

When code AC2 is specified, the OEM auxiliary rear compartment air conditioning system, shall be furnished.

3.7.3 CODE "AH" AUXILIARY PASSENGER COMPARTMENT HEATER

When code AH is specified, in addition to the standard in-cab heater, the OEM auxiliary heater shall be furnished for the passenger compartment.

3.7.4 CODE "AP" ADJUSTABLE PEDALS

When code AP is specified, adjustable pedals shall be furnished.

3.7.5 CODES "LT", "AT", AND "TT"

When code LT is specified, the OEM's optional light truck tires shall be provided.

When code AT is specified, the OEM's optional tire with a tread designed for use on multiple terrains shall be furnished on both axles

When Code TT is specified, the OEM's Truck tires with Traction tread shall be provided on both axles

Section 3.4.3 describes tire types and treads in more detail.

3.7.6 CODE "ATC" AUTOMATIC TRACTION CONTROL

When ATC is specified, an OEM automatic traction control system, functioning through the vehicle brake and/or engine systems, shall be furnished.

3.7.7 CODE "AWD" OEM ALL WHEEL DRIVE

When code AWD is specified, the OEM all-wheel drive system with a single speed transfer case shall be furnished as a minimum.

3.7.8 CODE "BF" BENCH FRONT SEAT

When code BF is specified, a front solid bench seat shall be furnished.

3.7.9 CODE "BL" BEDLINER, OEM PLASTIC DROP-IN and CODE "BLS" BEDLINER, OEM SPRAY-ON

When code BL is specified, an OEM drop-in type plastic protective cargo bedliner shall be furnished.

When code BLS is specified, an OEM spray-on type protective bedliner shall be furnished.

3.7.10 CODE "BUA" BACKUP ALARM

When code BUA is specified, an OEM backup alarm conforming to SAE J994 shall be furnished which

provides an audible warning only when the ignition switch is "on" and the vehicle transmission control is in reverse.

3.7.11 CODES "CA1, CA3, CA4, CA5, CA6, AND CA8" CAB TO AXLE LENGTH

When specified;

- code CA1 requires a cab to axle length of 108 in
- code CA3 requires a cab to axle length of 138 in
- code CA4 requires a cab to axle length of 120 in
- code CA5 requires a cab to axle length of 126 in
- code CA6 requires a cab to axle length of 60 in
- code CA8 requires a cab to axle length of 84 in
- code CA56 requires a cab to axle length of 56 in

3.7.12 RESERVED

3.7.13 CODE "CBE" CARGO BED EXTENDER

When code CBE is specified, the OEM cargo bed extender shall be provided.

3.7.14 CODE "DBS" REAR BENCH SEAT DELETE

When Option DBS is specified, the rear bench seat shall be deleted from the extended cab pickup.

3.7.15 RESERVED

3.7.16 CODE "CM" CARPETED FLOOR COVERING

When code CM is specified, carpeted floor covering and carpeted floor mats shall be provided in all seating areas at a minimum.

3.7.18 CODE "CNS" CONSIGNEE DELIVERY

When consignee (direct) delivery code CNS, is specified, the contractor shall deliver the vehicle to the consignee delivery address designated on the motor vehicle delivery order.

Per FSS 290 (Apr 1984) entitled: Delivery Hours-"Where prices are quoted and accepted on a destination basis, delivery shall be performed between the hours of 8:00am and 4:30 PM, Monday through Fridays, holidays excluded," all vehicles shall be delivered to the consignee Monday through Friday between the hours of 8:00 AM and 4:30 PM, excluding Federal Holidays.

The consignee is responsible for:

1. The pre-delivery inspection and servicing normally provided by the dealer during the standard dealer delivery process.
2. Notifying the contractor of the delayed delivery date and the in-transit mileage accumulation if applicable.
3. In the presence of the delivering driver, immediately inspecting the vehicle for damage, abuse, loss or theft that may have occurred during transit. Any such findings should be accurately described on the delivery receipt the driver presents for signature. If the vehicle(s) are covered with snow, Ice or dirt so as to prevent a complete inspection at the time of delivery, this is to be noted on the delivery receipt. The driver is required to acknowledge any notification on the delivery receipt by signature.

4. Notifying the contractor of any damages or shortages found within 24 hours.
5. Obtaining local safety and emission testing that may be required.
6. Deactivating the vehicle's ship mode electronic programming

Items normally installed by the dealer as part of the predelivery servicing shall be shipped in the vehicle. The consignee will be responsible for installing these items.

The fuel tank(s) shall be filled with a minimum of 3 gal of fuel.

The vehicle(s) will be shipped in accordance with the manufacturer's standard commercial practice (This may include wheels-on-ground transportation).

3.7.20 CODE "CU" CLOTH UPHOLSTERY

When code CU is specified, the OEM standard cloth interior upholstery shall be provided.

3.7.21 CODE "D3" SPECIAL TRACTION

When code D3 is specified, the vehicle shall be provided with a positive-traction, automatic locking differential.

3.7.22 CODE "D7" TOWING/MOUNTAIN RATIO

When code D7 is specified, it shall indicate that the vehicle will be used for trailering (towing), or operating in mountainous terrain. The vehicle shall be furnished with the OEM higher than standard numerical axle ratio that is compatible with the required equipment and options selected.

3.7.23 RESERVED

3.7.24 CODE "SAG" STREET APPEARANCE GROUP

When code SAG is specified, the following shall be furnished

- a. Cloth Rear Seats
- b. Front and Rear Floor Mats
- c. 1st and 2nd Row Carpet
- d. Full Floor OEM Console
- e. Exterior Badge Delete

3.7.25 RESERVED

3.7.26 CODE "DTG" DARK TINTED GLASS

When code DTG is specified, OEM dark tinted glass on all windows behind pillar B shall be furnished.

3.7.27 CODE "CNG2" DUAL FUEL - CNG AND GASOLINE

When code CNG2 is specified, the engine shall be capable of normal operation using gasoline and Compressed Natural Gas as fuel. The type shall be selectable by the driver. The vehicle shall be warrantied by the OEM and serviceable by the OEM dealers.

3.7.28 CODE "EH" ENGINE BLOCK HEATER

Ordering Note: When Code "YD" is specified, "EH" shall be furnished.

When code EH is specified, the OEM engine highest wattage block heater(s) shall be furnished.

3.7.29 RESERVED

3.7.30 CODE "FTH" FRONT TOW HOOKS

When code FTH is specified, the chassis manufacturer's front recovery hooks shall be frame mounted on the front of the vehicle. The chassis manufacturer's front recovery hooks shall be provided on all 4X4 vehicles.

3.7.31 CODE "E85" ETHANOL FLEXIBLE FUEL

When code E85 is specified, the engine shall be capable of normal operation on gasoline fuel containing up to 85 percent ethanol.

3.7.32 CODE "L6" SHORT BED PICKUP BODY

When code L6 is specified, the truck body furnished shall have an overall interior length of 6 to 6.7 ft.

3.7.33 CODE "LD" LEFT DOOR

When code LD is specified, a left side, swing out, 60/40 passenger/cargo door shall be furnished.

3.7.34 RESERVED

3.7.35 CODE "OEMC" OEM CONSOLE

When code OEMC is specified, the OEM console shall be installed in between the driver's and front passenger's seats.

3.7.36 CODE "LR" LUGGAGE RACK

When code LR is specified, an OEM, roof mounted luggage rack shall be provided.

3.7.37 CODE "MBG" FRONT BRUSH GUARD

When code MBG is specified, the vehicle shall be equipped with a radiator and headlamp brush guard.

3.7.38 RESERVED

3.7.39 CODE "CTB" OEM TRAILER BRAKE CONTROLLER

When code CTB is specified, the vehicle shall be furnished with an integrated electronic device that controls electrical power to trailer braking system and provides ideally matched braking force between tow vehicle and trailer.

3.7.40 CODE "CTBP" OEM TRAILER BRAKE CONTROLLER PRE-WIRING

When code CTBP is specified, the vehicle shall be furnished with a 4 way brake wiring connector or access to brake wiring located under the instrument panel. This connector or wiring access shall contain the following circuits:

- Battery Ground
- Battery Positive
- Stop Lamp Switch
- Electric Brake Feed

3.7.41 CODE "MF" FLOOR MATS

When code MF is specified, floor mats shall be provided.

3.7.42 RESERVED

3.7.43 CODE "MIL" MILITARY MARKINGS AND DATA PLATES

When code MIL is specified and available under contract, the following shall be furnished:

1. Data Plate. A data plate only shall be furnished. No other exterior military markings shall be furnished.

At a minimum, the Data Plate shall be as follows:

NOMENCLATURE	
MAKE AND MODEL	
CHASSIS SERIAL NUMBER (VIN)	
VEHICLE CURB WEIGHT:	LBS
PAYLOAD, MAXIMUM:	LBS
GROSS VEHICLE WEIGHT RATING, MAX.	LBS
GROSS COMBINATION WEIGHT RATING, MAX.	LBS
DATE OF DELIVERY:	MONTH YEAR
WARRANTY:	MO. MILES
CONTRACT NUMBER	
RPN NUMBER	
US PROPERTY	

2. A DD FORM 250 (MATERIAL INSPECTION AND RECEIVING REPORT) shall be furnished in lieu of a GSA form 308.

3.7.44 "TES" ENGINE SHUT DOWN TIMER

When code TES is specified, an engine shut down timer shall be furnished. The timer shall be used in combination with a diesel engine and an automatic transmission. The engine shall shut down automatically after a 5 minute idle period when the transmission is in the neutral position and the parking brake is set.

3.7.45 RESERVED

3.7.46 CODE “OS” ONSTAR SYSTEM

When code OS is specified, OnStar system hardware and a subscription for three years from the date of delivery shall be provided. Option is available only in the 48 contiguous states. Remote system services shall include automatic notification of airbag deployment, stolen vehicle tracking, emergency services, roadside assistance, door unlock, horn and lights, and vehicle diagnosis.

3.7.47 CODE “PSM & PSME” PARTS AND SERVICE MANUALS

When PSM or PSME is specified, the contractor shall furnish all parts lists and service publications for the vehicle and all equipment furnished.

When PSM is specified, the publications furnished shall be printed documents.

When PSME is specified, the publications furnished shall be electronic media (may be web-based)

NOTE: The publications will be shipped separately from the vehicle. The publications will be shipped to the consignee mailing address as shown on the MVDO.

3.7.48 CODE “PT” POWER TAKEOFF OPENING

When code PT is specified, the designated transmission or transfer case shall be provided with a usable PTO opening.

3.7.49 CODE “PWL” POWER WINDOWS AND LOCKS

When code PWL is specified, the OEM power windows and power locks option shall be provided.

3.7.50 RESERVED

3.7.51 CODE “SRO” OEM REVERSE OBSTACLE SENSOR

When code SRO is specified, the vehicle shall be furnished with a sensor system that is installed on the bumper of the vehicle and detects the proximity of objects and transmits an audible signal to the driver. A switch may be provided that allows the driver to turn this device on/off.

3.7.52 CODE “RB” RUNNING BOARD

When code RB is specified, OEM running boards shall be furnished.

3.7.53 CODE “RD” REAR ELECTRIC DEFROSTER

When code RD is specified, the OEM rear window electric defogger/defroster shall be furnished.

3.7.54 RESERVED

3.7.55 CODE “RF” RUBBER FLOOR COVERING

When code RF is specified, a rubber or vinyl floor cover shall be provided.

3.7.56 CODES “RH3 AND RH4” OEM TRAILER TOWING PROVISIONS

The trailer towing provisions and capacities furnished by the OEM's are rated according to the SAE J684 and J2807 standards. These standards also define the weight classifications for trailering. The classifications are as follows:

- **Class 3** All types of trailers with a trailer GVWR of over 3500 lb and not to exceed 5000 lb GVWR.
- **Class 4** All types of trailers with a trailer GVWR of over 5000 lb and not to exceed 10000 lb GVWR.

The codes RH3 & RH4 correspond directly to the trailer classes. As an example, for a class 3 trailer, you need to order RH3 towing provisions.

All OEM towing provisions include:

- A trailer lighting package
- The OEM's standard electrical connector
- Performance based on weight distributing capacity for RH3 & RH4

The ordering agency will be responsible for obtaining the proper hitch ball, ball mounting device and the associated equipment (such as weight distributing devices) required to tow the trailer and its load. It is imperative that agencies follow the OEM's towing guidelines to select the appropriate type of vehicle to perform their trailer towing operations.

3.7.57 CODE "RKE" REMOTE KEYLESS ENTRY

When code RKE is specified, the OEM optional remote keyless entry system shall be furnished.

3.7.58 CODE "RL" REAR LINING, CARGO VAN

When code RL is specified, the rear compartment shall be lined with the OEM van-wagon panels.

3.7.59 CODE "RM" EXTRA WIDE MIRRORS

When code RM is specified, OEM dual swing away/adjustable combination (flat and convex) style mirrors, shall be furnished. This mirror system shall provide an adequate view to the rear with a body that is 96 inches wide as a minimum. For consignee (Option Code CNS) delivery, large style mirrors may be shipped dismantled within the vehicle.

3.7.60 CODE "RS" RECLINING BUCKET/CAPTAIN'S CHAIRS

When code RS is specified, [reclining individual bucket seats](#) shall be furnished.

3.7.61 CODE "S5" FIVE PASSENGER SEATING

When code S5 is specified, 5 passenger seating shall be furnished and the rear AC/heat unit may be deleted.

3.7.62 CODES "S6, S7, S8, S9, S10 AND S12" PASSENGER SEATING

When code S6, S7, S8, S9, S10 or S12 is specified, seating for 6, 7, 8, 9, 10 or 12, respectively, passengers shall be provided. Provisions for ease of ingress and egress to the rear seating positions shall be provided. Center and rear seats shall be of the removable or foldaway type.

3.7.63 RESERVED

3.7.64 CODE "SCC" VAN INDIVIDUAL SEATING

When code SCC is specified, individual high back seats shall be provided in the first and second row (minimum capacity remains at seven passengers).

3.7.65 CODE "SE" SLIDING TYPE SIDE DOOR

When code SE is specified, the OEM sliding type side door shall be furnished.

3.7.66 CODE "DPS" POWER SLIDING DOOR

When code DPS is specified, the OEM POWER sliding type side door shall be furnished.

3.7.67 CODE "SF" SPLIT FRONT BENCH SEAT

When code SF is specified, a split front bench seat shall be furnished.

3.7.68 CODE “SK” METRIC ODOMETER

When code SK is specified, the odometer shall show cumulative distance in kilometers.

3.7.69 CODE “SP” SKID PLATES

When code SP is specified, the OEM skid plate(s) shall be furnished.

3.7.70 CODE “SZ” SNOW PLOW PREP PACKAGE

When code SZ is specified, the vehicle requires the OEM snowplow preparation package or OEM recommended snowplow preparation equipment if an option is not available. This shall include option “D3”, the positive-traction automatic locking differential or equivalent that the OEM offers.

3.7.71 CODE “OPW” OPAQUE GLASS

When code OPW is specified, the OEM’s opaque glass and/or panels shall be furnished behind pillar B.

3.7.72 CODE “SRG” SLIDING REAR WINDOW

When code SRG is specified, the OEM sliding rear glass window shall be furnished.

3.7.73 CODE “CR” CRUISE CONTROL

When code CR is specified, the chassis manufacturer’s cruise control shall be furnished.

3.7.74 CODE “TCH” HARD TONNEAU COVER

When code TCH is specified, an OEM lockable, weather resistant, hard tonneau pickup bed cover shall be furnished.

3.7.75 RESERVED

.

3.7.76 CODE “TD” DELETE SPARE TIRE ASSEMBLY

When code TD is specified, the spare tire assembly shall not be furnished.

3.7.77 CODE “EHM” ENGINE HOUR METER

When code EHM is specified, an engine hour meter shall be provided. The meter shall have a totalizing mechanism of not less than 9,999 hours for the chassis engine to register accurately the number of hours of operating time. The meter shall be of rugged construction to ensure continuous trouble-free performance under severe operating conditions. The meter shall be mounted on the cab instrument panel or in the engine compartment in a readable location.

3.7.78 CODE “WR” INCREASED GVWR

When code WR is specified, the GVWR shall be increased by the OEM to the maximum level available.

3.7.79 CODE “AVSC” AUTOMATIC VEHICLE STABILITY CONTROL

When code AVSC is specified, the OEM’s integrated vehicle stability enhancement system shall be furnished. AVSC will help the driver control the vehicle on a variety of road surfaces, in inclement weather, and in avoidance maneuvers.

3.7.80 CODE “VU” VINYL INTERIOR

When Code VU is specified, chassis manufacturer’s optional vinyl interior shall be furnished.

3.7.81 CODE “VUR” VINYL REAR SEAT

When Code VUR is specified, a vinyl rear seat shall be furnished.

3.7.82 CODE “VDD” VARIABLE DISPLACEMENT ON DEMAND

When Code VDD is specified, the chassis manufacturer’s system that deactivates cylinders for improved fuel economy and automatically reactivates cylinders for performance shall be furnished.

3.7.83 CODE “WD” SIDE CARGO DOOR WINDOWS

When code WD is specified, window(s) shall be furnished in the curb side cargo door(s).

3.7.84 CODE “WY” WINDOWS, ALL SIDES

When code WY is specified, OEM windows shall be provided on all sides of the vehicle.

3.7.85 CODE “XL” EXTRA LONG BODY

When code XL is specified, the OEM extra long body shall be furnished.

3.7.86 CODE “XS” SHORT BODY VAN

When code XS is specified, the OEM shortest body shall be furnished.

3.7.87 CODE “RKS” REMOTE KEYLESS START

When code RKS is specified, the OEM optional remote keyless start system shall be furnished.

3.7.88 CODE “YD” DIESEL ENGINE

When code YD is specified, OEM maximum power diesel engine available for the specified application shall be furnished.

- a) A manual regeneration system shall be furnished
- b) Option “EH” and all other cold weather operation equipment that the OEM offers shall be furnished.

Diesel engines require the use of ultra low sulfur diesel fuel.

Diesel engines may also require the use of selective catalytic reduction (SCR) emissions technology which requires the use of urea, known in North America as “diesel exhaust fluid” (DEF).

3.7.89 CODE “HEV” HYBRID ELECTRIC VEHICLE

When code HEV is specified, the OEM’s approved hybrid electric propulsion system shall be provided.

3.7.90 CODE “DRB” DELETE RUNNING BOARDS

When code DRB is specified, the OEM’s standard running boards shall be deleted.

3.7.91 CODE “OLS” OIL LIFE SYSTEM

When code OLS is specified, the vehicle shall be furnished with a system that will visually indicate that an engine oil change is necessary. The system requires manual reset every time oil is changed.

3.7.92 CODE “WB” WHEEL BASE

When specified;

- code WB38 requires a nominal wheel base length of 138 in,
- code WB59 requires a nominal wheel base length of 158 in,
- code WB66 requires a nominal wheel base length of 166 in,
- code WB76 requires a nominal wheel base length of 176 in,

- code WB83 requires a nominal wheel base length of 183 in,
- code WB95 requires a nominal wheel base length of 195 in.

3.7.93 RESERVED

3.7.94 CODE “PSMA” AIR FORCE PARTS AND SERVICE MANUALS

When code PSMA is specified, the following shall be provided in a complete package:

The Contractor/Vendor shall provide two (2) complete sets of manuals (1 paper and 1 electronic) to include, operators, parts and service manuals to the U.S. Air Force Program Office at the address listed below. Manuals shall be for the complete vehicle and include any mounted or accessory equipment. The data formats shall be paper (printed), and electronic (CD ROM). Those files provided in electronic format must be complete and assembled separately in a “print on demand” format such that a bound paper copy can be produced and provided with no security restrictions (unlocked). No “auto run” or “executable files” are acceptable.

For each set of manuals, the Contractor/Vendor shall provide one copy of Form DD250 Material Inspection and Receiving Report available at <http://www.dtic.mil/whs/directives/infomgt/forms/eforms/dd0250.pdf> to the U.S. Air Force Program Office at the below listed address.

All data shall be supplied in accordance with DFARS clause [252.227-7015 TECHNICAL DATA—COMMERCIAL ITEMS \(MAY 2013\)](#). The Contractor/Vendor shall provide the U.S. Air Force Program Office at the address listed below a Government Purpose License Agreement to allow the reproduction of the data they supply in agreement with the above referenced DFARS clause.

The shipping address for the above required technical data packages is:

235 BYRON STREET (BLDG300)
SUITE 19A
Robins AFB, GA 31098-1813
Attn: 404 SCMS/GUEEA

3.7.95 CODE “ACC”, ADAPTIVE CRUISE CONTROL

ACC- Adaptive Cruise Control. When code “ACC” is specified; an OEM installed adaptive cruise control system shall be furnished. The system shall include the speed maintenance and control capabilities of a standard cruise control system, and utilize on-board sensors to adjust the speed of the vehicle based on the speed and position of the vehicles ahead.

3.7.96 CODE “AEB”, AUTONOMOUS EMERGENCY BRAKING-COMPLETE STOP

When code “AEB” is specified; an OEM installed autonomous emergency braking system shall be furnished. The system shall provide active, auto-applied braking, independent of the driver. The system shall be capable of bringing the vehicle to a complete stop to avoid a forward collision.

3.7.97 CODE “AEB1”, AUTONOMOUS EMERGENCY BRAKING TO LOW SPEED

When code AEB1 is specified; an OEM installed autonomous emergency braking system shall be furnished. The system shall provide active, auto-applied braking, independent of the driver, capable of bringing the vehicle to a low speed to avoid a forward collision.

3.7.98 CODE “LDAS”, LANE DEPARTURE WARNING WITH ACTIVE STEERING

When code LDAS is specified; an OEM installed Lane Departure Warning system with Active Steering shall be furnished. The system shall provide active, auto-applied steering input, independent of the driver, to stay within lane.

3.7.99 CODE “LCA”, LANE CHANGE ASSIST

When code “LCA” is specified; an OEM installed Lane Change Assist system shall be furnished. The system shall monitor the lanes adjacent to the vehicle, and notify the driver of an unsafe lane change maneuver when the lane change signal is activated. The system shall feature a display, in or near the exterior side mirrors that will notify the driver of adjacent vehicles. The system may also include acoustic, and other non-optical driver notification methods.

3.7.100 CODE “LDW”, LANE DEPARTURE WARNING SYSTEM

When LDW is specified; an OEM installed lane departure warning system shall be furnished. The system shall provide a passive lane departure warning (without active steering or braking input), such as indicator lights, chimes, vibrations, or other signals to the driver.

3.7.101 CODE “FCAS”, FRONT COLLISION ALERT SYSTEM

When FCAS is specified; an OEM installed forward collision alert system shall be furnished. The system shall provide a passive collision alert warning (no actual steering or braking input), such as indicator lights, chimes, vibrations, or other signals to the driver.

3.7.102 CODE “PAFR”, PARKING ASSIST FRONT AND REAR

When code PAFR is specified; an OEM installed parking assist system, for both rear and front, shall be furnished. The parking assist system shall provide passive parking assist (no actual steering or braking input), such as indicator lights, chimes, vibrations, or other signals to the driver.

3.7.103 CODE “SBAS”, SEAT BELT ALERT SYSTEM

When code SBAS is specified; an OEM installed seat belt alert system shall be furnished. The system shall function as an ignition interlock, not allowing the vehicle to start, unless the seat belt is fastened. The system shall also include an audible warning, separate from the standard seat belt warning chime.

3.7.104 RESERVED

3.7.105 CODE “OS”, ON STAR SYSTEM

When Code OS is specified, OnStar system or equal hardware and a subscription for three years from the date of delivery shall be provided. Option is available in the 48 contiguous states. Remote system services may include automatic notification of airbag deployment, stolen vehicle tracking, emergency services, roadside assistance, door unlock, horn and lights, and vehicle diagnosis

3V. REQUIREMENTS, ADDITIONAL (PERTAINING TO VOCATIONAL BODY TRUCKS ONLY)

3V.1 CAB-TO-AXLE (CA) AND WHEEL BASE (WB) DIMENSIONS

For vocational body vehicles the dimension provided shall accommodate an excess of 50 percent of the outside body length forward of the rear axle centerline

3V.2 SUSPENSION

The chassis shall not be modified above chassis manufacturer’s maximum GAWR as shown on the certification label.

3V.3 WHEELS AND TIRES

The tire assembly shall be mounted in a bulkhead or side wall carrier, or in a spare tire compartment. On a chassis and cab the spare assembly may be shipped strapped to the frame if a carrier is not available.

3V.4 ELECTRICAL SYSTEM

The electrical systems, equipment, and components furnished on the specified bodies, devices, and equipment shall comply with all the applicable SAE recommended standards and practices.

- a) The body manufacturer's wiring harnesses shall be utilized
- b) All van cab and body wiring, except for the engine compartment, shall be concealed behind paneling, headliners, or protected in flexible conduit, except for terminal ends.
- c) Passage through bulkheads/structural members shall be protected with grommets or equivalent.
- d) Exposed fuse boxes shall be provided with a non-conductive cover.
- e) All wiring added by the Final Stage Manufacturer, shall have SXL or GXL insulation and be mounted in a minimum 300°F rated wire loom,
- f) All wiring splices shall be soldered and made in accordance with TMC RP 186
- g) All Data cable splices shall be made in accordance with TMC RP 142
- h) All exterior wiring connections shall use weatherproof connectors.
- i) Wiring shall be routed to avoid movement and high temperature components
- j) Wiring shall be mechanically secured every 18 in maximum with clamps.
- k) Plastic ties may be used to form wiring bundles, but shall not be used to secure wiring bundles to the vehicle.
- l) Wiring shall not be secured to brake lines and/or fuel lines.

3V.4.1 LIGHTING

The tail lights, stop lights, backup lights and rear turn signals shall be located to avoid obstruction by the rear doors when the doors are in fully opened position. Lights and reflectors shall not be mounted on vertical surface of rub rails, or mounted on vehicle bumpers, or in any manner to increase vehicle width. Rear lights, with the exception of license plate lights, shall be installed flush with, or forward of, the rear of the body. Two backup lights shall be furnished.

On utility bodies:

- a) Recessed lights and their electrical connections shall be provided, with guarding to prevent interior damage from shifting loads/cargo.
- b) Lights shall be near flush mounted and not protrude more than 1".

3V.4.2 RADIO INTERFERENCE SUPPRESSION

Non-OEM electrical equipment and devices used and installed on these vehicles shall be suppressed to the limitations of SAE J551.

3V.4.3 INTERIOR TRIM

All interior pillars shall be covered in trim

3V.5 TRUCK BODY DESIGN

Each truck body furnished shall be designed and mounted to fit the vehicle chassis specified, shall provide the proper weight distribution for steering and balance, and present a uniform appearance. Body widths shall be:

- Not less than the overall width of the rear tires
- A maximum of 96 inches and a minimum of 92" for dual rear wheel chassis
- A maximum of 80" inches and a minimum of 76" for single rear wheel chassis

Bodies designed with wheel openings shall have the vehicle's wheels centered within the wheel opening +/- 2 in longitudinally and ± 0.5 in laterally. Wheel housing envelopes shall be of a size to provide snow chain clearance as determined by SAE J1232.

Materials used in the fabrication of bodies, if not specifically described, shall be not less in quality and strength than those materials normally used by body manufacturer. Where dissimilar metals that pose a galvanic corrosion or reactive threat are to be mounted together, the mounting base material shall have an isolation barrier prior to assembly to prevent dissimilar metal reaction.

3V.5.1 BODY MOUNTING

The body shall be mounted in accordance with the body and chassis manufacturer's recommended practices utilizing the body mounting hardware furnished by the body manufacturer. Body mounting crashworthiness shall not be compromised from that mandated by FMVSS crash test requirements.

Body mounting and installation of fuel filler pipe and vent shall be in accordance with chassis and body manufacturer's recommended procedures to retain the certifications for all applicable FMVSS. The fuel tank filler pipe shall be installed and vented in a manner to permit refueling at normal fuel pump delivery rates without regurgitation of fuel.

Reinforcement or filler blocks shall be used where mounting device(s) may deform frame flanges. Mounting devices shall be locked units which will minimize loosening, but which may be tightened if necessary.

Modular bodies shall not be welded to the frame at any point. The installed body shall not be in contact with any part of the exhaust system.

Rear impact guards (underride protection) and rear end protection shall be furnished conforming to FMCSR 393.86 where necessary and may be manufacturer's standard finish or color.

3V.5.2 POWER TAKE OFF

When a PTO unit is provided on a vehicle, a caution plate or decal reading, "Do not operate vehicle at highway speeds with PTO engaged," shall be installed in the cab, readily visible to the driver. Controls to operate the power takeoff shall be located in the truck cab accessible to the seated driver. The PTO unit shall have a rated capacity to operate the provided equipment.

3V.5.3 PREPARATION FOR PAINTING

Steel Vocational bodies shall be factory primed with the body manufacturer's standard E-coating.

3V.5.4 PAINT, FINISH, AND COLOR

The vehicle(s) exterior color will be selected from the manufacturer's standard colors offered in AutoChoice Chassis/Cab or Cutaway will have the OEM paint finish provided by the factory. If the paint finish is damaged in any way, it is to be restored to the OEM collision repair specification for color, gloss, sheen and appropriate levels of clear coat paint as specified in the OEM's body repair technical information, to be performed at either an OEM approved aftermarket provider or by the chassis/cab direct OEM supplier/dealer/reseller. Accessory body or accessory equipment will follow the OEM equipment supplier (not the chassis/cab OEM supplier) specifications for color, gloss, sheen and appropriate levels of paint protection. All painted body added to a chassis cab will be VIRTUALLY free of all defects including, but not limited to: "orange peel or snake eyes"- this is the over or under application of paint to a primed paint surface, drips, runs, captured dirt, chips, burrs, debris (impurities-whether formulation or contamination), paint cavitation, or lack of complete coverage. No bodies, parts, sub assemblies and

components are to be finished coat painted without the OEM aftermarket or OEM market recommended paint preparation process (cleaning, priming). Internal components, such as wheel wells, tool/utility boxes, hinges, hasps and locking assemblies are to follow this same requirement for paint coverage, quality and workmanship. The paint is to be a close match to the OEM color, sheen, gloss and finish. In the event the prime supplier elects to color match the exact OEM manufacturer's paint specification, to include color, the supplier is required to utilize the OEM color paint code and is required to follow the same procedures for collision damage repair as required by the OEM repair service process. Stake bodies final coating shall be black Dump bodies final coating shall be black Auxiliary or fiberglass hard tops may be furnished in manufacturer's standard color. Stakes, pintles, towing devices, winches, exterior mounted equipment, and bumpers may be manufacturer's standard finish or color.

3V.5.4.1 USE OF VOLATILE ORGANIC COMPOUNDS IN OCCUPIED WORK SPACES/CABINS

All materials including but not limited to paints, insulation, glues and adhesives shall have low or no VOC emissions rating. For paint, low VOC levels are 150 g/l or less for non-flat finishes and 100 g/l or less for flat finishes. For other materials including but not limited to insulation, glues and adhesives, manufacturer must state material has a rating of low or no VOC. Contractor shall request and receive approval from the Government before using materials or compounds containing toluene and/or styrene.

3V.5.5 PICKUP BOX DELETES

Only OEM furnished pick up dox deletes shall be used

3V.6 ADDITIONAL VEHICLE OPTION CODES

The following Additional Option Codes are offered for selected vocational body vehicle applications **ONLY**. Detailed requirements for these codes follow this Index. Not all option codes apply to all vehicles. The Code only applies if listed in the Optional Equipment section of AutoChoice & the Federal Vehicle Standards.

NOTE: SELECTING SOME OPTIONS MAY RESULT IN THE MINIMUM REQUIREMENTS FOR A STANDARD ITEM NOT BEING COMPLIED WITH THIS APPLIES TO MINIMUMS DIRECTLY IMPACTED BY THE OPTION!

3V.6.1 CODE "AHV" AUXILIARY CARGO COMPARTMENT HEATER

When code AHV is specified, in addition to the standard in-cab heater, an auxiliary heater with two speed or variable speed blower shall be furnished for the cargo compartment. Rated air flow shall be not less than 185 cu ft per minute and heater rated output shall be not less than 17,500 BTU at 150°F water over air differential. The heater controls shall be located convenient to the driver.

3V.6.2 CODE "AL" ALUMINUM BODY

When code AL is specified, the utility service body shall be constructed of aluminum. The body shall be constructed with strength equal to steel. The body shall generally conform to the dimensional, layout, performance, and design specified, with the exception of basic body material used to accomplish the objectives.

3V.6.3 RESERVED

3V.6.4 CODE "BBM" BULKHEAD, UTILITY SERVICE BODY

When code BBM is specified, the body manufacturer's steel cab guard shall be provided at the front bulkhead, and when an aluminum body is furnished the cab guard shall be aluminum. On fiberglass bodies, the cab guard shall be steel or aluminum. The guard shall be at least the width of the load space and the height of the cab and include openings for rear visibility.

3V.6.5 CODE “BBS” BULKHEAD, STAKE BODY

When code BBS is specified, an all steel, solid front bulkhead with a screen opening behind the cab window shall be provided in lieu of the front end rack.

3V.6.6 CODE “BC” DUMP BODY COVER

When code BC is specified, a permanently mounted, retractable, mechanical cargo cover of vinyl-coated nylon material shall be furnished.

3V.6.7 CODE “BDF” DIAMOND TREAD STEEL FLOOR

When code BDF is specified, a diamond tread steel plate floor, 1/8 in. thick min, shall be furnished.

3V.6.8 CODE “BDS” DUMP STAKE BODY

When code BDS is specified, a NTEA class B conversion hoist shall be provided for 8 and 9 ft bodies, and a NTEA class C for 12 and 14 ft bodies. The vehicle shall be equipped with a hoist having a minimum lifting capacity rating of 6,000 lb in accordance with the National Truck Equipment Association Hoist Classification chart. The system shall be provided with a relief valve to protect against overloading of the hoisting mechanism at 125% of rated capacity. Hoist shall lift the body to a minimum angle of 45 degrees; controls shall be located in the cab. Hydraulic lines and hoses shall be secured in a protected position, and shall not hang below the chassis frame. Dumping stake bodies shall incorporate structural steel channel long sills. Wiring harness for the body shall have overload protection and be enclosed in conduit or plastic loom, except at terminal ends, and shall be secured by hangers to the underbody on not more than 18 in centers. The front rack section shall be capable of withstanding a horizontal static load equal to one-half the payload capacity of the load space without permanent distortion of the rack section or its mounting.

3V.6.9 CODE “BH” INTERIOR BULKHEAD

When code BH is specified, an interior bulkhead shall be constructed of not less than 17 gauge steel with a rigid center section door and side panels, which shall be located between the driver and cargo areas. The door shall have openings in the upper and lower halves separated by a solid area. The openings shall be open mesh covered or perforated type with diamond-shaped or round holes contained within the open area and shall have an outside perimeter of not less than 17 in high for standard vans or 15 in high by 15 in wide for compact vans, with the solid separation between openings of not less than 3.5 in. The upper edge of the upper opening shall be 1 to 5 in from the top of the bulkhead. The openings shall be hinged to swing into the cargo area. Bulkhead shall be secured to the body interior with easily removable, corrosion resistant fasteners. Provision shall be made on cargo side of bulkhead for relocation of spare tire assembly to left or right side panel(s) or under frame.

3V.6.10 CODE “BLP” LOW PROFILE MAINTENANCE BODY

When code BLP is specified, a low profile utility maintenance body shall be supplied. The minimum cabinet height (front and rear) shall be reduced to 35 in and minimum load space height shall be reduced to 19 in.

3V.6.11 CODE “BPC” BODY PAINT COLOR

When code BPC is specified, the body color shall be a ordering agency specified color other than the standard white.

3V.6.12 CODE “BR” TRANSLUCENT ROOF

When code BR is specified, the roof panel over the cargo section of Vocational Bodies shall be translucent white, fiberglass reinforced, polyester material, min. (0.060”) thick.

3V.6.13 CODE “BRH” STAKE RACKS, 40 IN

When code BRH is specified, the rack sections shall be minimum 40 in high.

3V.6.14 CODE “BRT” INTERIOR ROPE TIES

When code BRT is specified, the body side lining (panels) shall be furnished with tie rings for cargo securing. The tie rings shall be recessed and shall be located on each vertical post, and 30 in above the floor line plus or minus 2 in. Tie rings are not required on the bulkhead.

3V.6.15 CODE “BSF” SMOOTH STEEL FLOOR

When code BSF is specified, a smooth steel plate 1/8 in thick shall be provided for the floor.

3V.6.16 CODE “BUAV” BACK UP ALARM

When code BUAV is specified, a backup alarm conforming to SAE J994, class C shall be furnished by the vocational body contractor which provides an audible warning only when the ignition switch is “on” and the vehicle transmission control is in reverse.

3V.6.17 CODES “BXX” BODY LENGTH

These codes describe the length of truck bodies:

- Code B08 requires a 8 ft body length
- Code B09 requires a 9 ft body length
- Code B10 requires a 10 ft body length
- Code B11 requires a 11 ft body length
- Code B12 requires a 12 ft body length
- Code B14 requires a 14 ft body length
- Code B16 requires a 16 ft body length
- Code B18 requires a 18 ft body length
- Code B20 requires a 20 ft body length
- Code B22 requires a 22 ft body length
- Code B24 requires a 24 ft body length

3V.6.18 CODE “CRT” CARGO RESTRAINING TRACK

When code CRT is specified, one cargo restraining track shall be installed on each interior side wall at the manufacturer’s standard height, unless a specific height is specified. One cross bar and hardware for insertion into the tracks shall be furnished per set of tracks.

3V.6.19 CODE “DDS” DROP SIDE DUMP BODY

When code DDS is specified, the supplier shall furnish the dump body with left and right (single or double) drop side style body.

3V.6.20 CODE “DPA and DPB” INTERIOR PARTITIONS

When code DPA or DPB is specified; a steel, FRP, or aluminum bulkhead with a sliding-type entry door and fixed side panels shall be furnished between the driver’s area and the cargo space. The door shall slide on the front side of the partition, and be furnished with a securing device. On cutaway cab vehicles the door shall slide to the curb side. The partition shall be capable of withstanding a horizontal static load equal to payload capacity of the vehicle without permanent distortion. When code DPA is specified, a screen type interior partition with door shall be installed. When code DPB is specified, a solid type partition with door shall be installed. The location of the partition shall allow for full seat travel with the seat back at a 23-degree angle from the vertical. Partition door shall be operable from both sides, with provisions for locking from the front. When the partition is installed, the load space may be reduced. When a recess in the partition is used to accommodate the back of the reclined seat it shall also provide additional clearance for the driver’s and passenger’s head. The recess width shall be at least as wide as the seat. The recess height shall come to within 1.5 in of the cab/body mounting flange.

3V.6.21 CODE “DPW” PARTITION DOOR WINDOW

When code DPW is specified, a bulkhead door with a framed clear plastic 0.125 in thick upper half shall be provided.

3V.6.22 CODE “DVAL” DELIVERY VAN BODY, ALUMINUM SIDES

When code DVAL is specified, the body sides shall be made of aluminum in lieu of FRP. The aluminum body sides shall be a minimum 0.040 in. As a minimum, vertical posts shall be aluminum or galvaneel on 16 in centers. The bulkhead panel may be .375 core FRP. All body seams shall be sealed and weatherproofed. Rub rails permanently attached to the body exterior shall be positioned to ensure proper body protection.

3V.6.23 CODE “DVC” ROLLUP REAR DOORS

When code DVC is specified, a full width, roll-up, overhead rear door shall be provided. The door shall be of the sectional type, having not less than five sections and a minimum of 72 in wide if dual wheel body style, and a minimum 66 in if single wheel body. The door sections shall incorporate joints of the tapered tongue and groove or shiplap type. The door shall be (1/2 in) composite construction. Door section corrosion-resistant hinges shall be mounted on the inside of the door, one at each end of each section joint. The door track shall be manufacturer's standard corrosion-resistant type equipped with a positive stop at the end of the track. Door rollers, counter-balance units, and cables of corrosion-resistant construction shall be provided. The door shall be weather tight. A heavy-duty, corrosion-resistant slam or cam-operated lever-type lock shall be provided with provisions for key or padlock locking. An interior release shall be furnished. One heavy-duty, corrosion-resistant grab handle, closed type, shall be provided on the inside bottom of the door. One nylon, double loop pull-down strap not less than .1.5 in wide and 12 in length shall be provided outside the door and located adjacent to the door lock. When roll-up rear door is furnished, load space may be reduced to accommodate clearance required for rear door hardware.

3V.6.24 CODE “DVD” DUAL REAR DOORS

When code DVD is specified, two side-hinged, full width rear doors both with stops shall be provided. Rear doors shall have door operating handles inside and outside. Rear doors shall be provided with door checks to hold doors in full open position. In addition to the door operating handles, grab handles to assist in closing the doors shall be provided on inside of rear doors.

3V.6.25 CODE “VBC” COMPOSITE DELIVERY VAN BODY

The body side walls and bulkhead shall be constructed using prepainted panels made of a high-density polyethylene core, thermally bonded between two high-strength steel skins. These composite panels shall have a minimum thickness of 0.23 inches.

The steel skins shall be finished as follows:

- a) Zinc Coating: G-90 Hot-Dip
- b) Rust Inhibiting Baked-on Primer
- c) Polyester Baked-on Paint

3V.6.26 CODE “DVF” WOOD FLOOR

When code DVF is specified, a wood floor, a minimum of 0.75 in, shall be furnished.

3V.6.27 CODE “FRP” FIBERGLASS DELIVERY VAN BODY

The body side walls and bulkhead shall be constructed using fiberglass-reinforced panels. These fiberglass-reinforced panels shall have a minimum core thickness as specified.

3V.6.28 CODE “UBOX” STORAGE BOX

When code UBOX is specified, an 18”D X18”H X 24”L under body tool box shall be furnished. It shall be constructed of .100” black powder coated aluminum diamond tread plate. The tool box shall have a drop down recessed door with beveled door edges to protect from moisture & road dirt, replaceable automotive style door seal, stainless steel locking die cast T-Handle compression latch with 2-keys, continuous hidden hinge system and aircraft grade door cables to hold the door in the horizontal position when open.

The tool box shall be mounted to be frame rail using tool box mounting brackets constructed of “C” channel or angle material. Size may be reduced on body lengths less than 9 feet.

3V.6.29 CODE “LSM” MASTER LOCKING SYSTEM

When code LSM is specified, a master lock for both sides of the body that allows the operator to lock all compartments on each side of the body with a single padlock shall be furnished.

3V.6.30 CODE “FLFL” FLAT CARGO FLOOR

When code FLFL is specified, a flat cargo floor shall be furnished.

3V.6.31 CODES “HTG”, “HTGR”, and “HTGU” - HYDRAULIC LIFT GATE, RAIL TYPE LIFT GATE, and FOLD UNDER TAIL GATE

Note: Vehicle payload will be reduced by the installation of a lift gate assembly

A rear bumper may be required to comply with FMVSS regulations.

When code **HTG** is specified, the vehicle shall be equipped with a power elevating and easy opening/closing manual folding type tailgate lift. The tailgate nominal overall width ([the loading platform plus the end caps and/or cable or chain mounting flanges](#)) shall be a minimum of the full width of body interior less 2 in. The tailgate nominal overall length shall be 25 in exclusive of the ramp. The platform loading area shall be made of nonskid sheet steel. The top of the rear edge shall come to within 0.50 in of the ground. The tailgate shall fold vertically against the rear of the vehicle for traveling and shall have a continuous toe clearance between rear edge of the floor and the tailgate platform, latches to hold the tailgate at floor level, if available, and devices to prevent movement due to road shock. When the tailgate is in line with the floor of the vehicle, the distance between rear edge of the floor and the tailgate shall be not more than 1 in.

When code **HTGR** is specified, the vehicle shall be equipped with a power rail type elevating and easy opening/closing manual folding type tailgate lift. The tailgate nominal overall width ([the loading platform plus the end caps and/or cable or chain mounting flanges](#)) shall be a minimum of the full width of body interior less 2 in. The tailgate nominal overall length shall be 25 in exclusive of the ramp. The platform loading area shall be made of nonskid sheet steel. The top of the rear edge shall come to within 0.50 in of the ground. The tailgate shall fold vertically against the rear of the vehicle for traveling and shall have a continuous toe clearance between rear edge of the floor and the tailgate platform, latches to hold the tailgate at floor level, if available, and devices to prevent movement due to road shock. When the tailgate is in line with the floor of the vehicle, the distance between rear edge of the floor and the tailgate shall be not more than 1 in.

When code **HTGU** is specified, the vehicle shall be equipped with a power type fold under tailgate. The tailgate shall be easy opening/closing and manually fold under the vehicle for travel and manually unfold for use. The ramp shall taper down to ground level to facilitate loading with a wheeled handcart. The tailgate nominal overall length shall be 32 in exclusive of the ramp. The platform loading area shall be made of nonskid sheet steel. The tailgate shall have devices for holding the platform in stowed position for vehicle travel.

The lift gate shall be hydraulic type with a rated lift capacity of not less than 1,300 lb.

Hoisting operations shall be accomplished hydraulically, powered from the truck's PTO or electrical system. Controls for operation of the lift shall be mounted outside of the body. Opening and closing of the platform shall be easy opening/closing. The vehicle's spare tire assembly may be mounted on a secured carrier in the load space. When the tailgate lift is supplied on a stake body truck, the two removable rack sections across the rear of the truck bed will be required and may be shipped in the load space.

3V.6.32 RESERVED

3V.6.33 CODE “BDF4” FLOORING-BED-RECYCLED MATERIAL

When option code BDF4 is specified, recycled tire and plastic plank boards, Rumber Materials Inc. or equal, shall be furnished. Plank boards shall be a minimum of 1½ in. tongue and groove secured to bed frame with minimum ¼ in. stainless steel self-tapping countersunk screws. The installation procedures and plank width shall be in accordance with the flooring manufacturer’s recommendation

3V.6.34 CODES “MEW” ELECTRIC WINCH

When code MEW is specified, an electrically driven commercially available, non-hoisting, front mount, self-recovery winch assembly with fairlead shall be provided. The winch shall permit not less than a 23-degree angle of approach, unless the vehicle is also equipped with a snowplow mount, and suitable for assisting the vehicle in negotiating difficult terrain.

The winch shall be supplied with the manufacturer’s standard length and diameter of galvanized aircraft or equal wire rope with minimum breaking strength exceeding the maximum single line pull rating of the winch and minimum requirements for single line pull rating of 12,000 lbs.,

Winch assemblies shall include the winch manufacturer’s recommended standard mount(s) providing for transfer of winching forces to the vehicle frame and shall place the winch as close to vehicle frame as practical. Acceptable mounts will include grill/brush guard type, heavy-duty bumper type, or behind the bumper type. Wire rope shall include replaceable clevis hook. Inside the cab winch controls shall be provided for hydraulically driven winches. Minimum 10 ft remote controls removable for security and storage and permitting in-cab operation of the winch shall be provided. Winches shall have forward and reverse drum drive and free spooling.

The vehicle shall be furnished with the OEM heaviest duty capacity optional battery and alternator for model truck specified.

3V.6.35 CODE “MHP” PIPE AND CONDUIT HOLDER

When code MHP is specified, the overhead ladder racks shall include a minimum 10 ft pipe and conduit holder. The pipe and conduit holder shall be a minimum of 6 in diameter with and have end closures. This unit may be shipped separate from the vehicle.

3V.6.36 CODE “MPS” SNOW PLOW, REVERSIBLE

Ordering Note: The Code SZ is required with this option and must be additionally specified by the ordering agency.

When code MPS is specified, a snowplow with an electro-hydraulic or mechanical-hydraulic raising and angling mechanism and auxiliary lights shall be installed on the vehicle. The snowplow, when fully angled, shall equal the widest part of the truck excluding mirrors and hubcaps. It shall be frame mounted with quick disconnect locking fasteners and shall be capable of angling at least 30° to each side. Hydraulic or electric lines shall be the quick disconnecting type. The weight of the total snowplow assembly shall not cause the chassis manufacturer’s front axle rating to be exceeded. The plow shall be shipped in the load space and lights shall be shipped within the cab when possible. Brackets and connections shall be installed on all vehicles to enable ready installation of the lights and snowplow at the destination. Snowplow and lights shall be installed on the first vehicle to ensure proper operation, and they may be removed for shipment after Government inspection. Height of moldboard shall be a minimum of 27 in

3V.6.37 CODE “MRS” AMBER LED REAR WARNING LIGHTS

When code MRS is specified, one of the upfitter switches shall be used to activate 2 rear amber LED warning lights. Lights shall be Whelen TLIA or equal.

Amber LED warning lights that are integral to the S/T/T & B/U lights are acceptable.

The lights shall be set to wig-wag.

3V.6.38 RESERVED

3V.6.39 CODE “ORM” OFF ROAD BODY MOUNTING

When code ORM is specified for a utility body an off-road mounting system shall be provided that will allow flexing of the truck frame independent of the utility body.

3V.6.40 CODE “PCI” COMPARTMENT INTERIOR PAINT

When code PCI is specified, all cabinet and door interiors shall be completely prepared, primed, and finished painted with the same finish paint as the exterior of the body.

3V.6.41 RESERVED

3V.6.42 CODE “RBV” RUNNING BOARD

When code RBV is specified, OEM running boards (Code RB) or vocational body contractor running boards shall be furnished. The vocational body contractor running boards shall be securely mounted to the frame of the vehicle to prevent flexing when used by vehicle occupants during entry and exit.

3V.6.43 CODE “RH4V” VOCATIONAL BODY CONTRACTOR TRAILER TOWING PROVISIONS

The trailer towing provisions and capacities furnished by the VBC's are rated according to the SAE J684 and J2807 standards. These standards also define the weight classifications for trailering. The classifications are as follows:

- **Class 4** All types of trailers with a trailer GVWR of over 5000 lb and not to exceed 10000 lb GVWR.

All VBC towing provisions include:

- A trailer lighting package
- A four conductor connector that complies with SAE Std J1239
- A seven conductor flat blade connector (RV style)
- Performance based on weight distributing capacity

The ordering agency will be responsible for obtaining the proper hitch ball, ball mounting device and the associated equipment (such as weight distributing devices) required to tow the trailer and its load.

It is imperative that agencies follow the OEM's towing guidelines to select the appropriate type of vehicle to perform their trailer towing operations.

3V.6.44 RESERVED

3V.6.45 CODE “UFT” TOP OPENING COMPARTMENTS

When code UFT is specified, a body with added top opening compartments shall be provided. Top opening lids shall be full length and nominal width of the compartment tops and supported by gas springs, minimum one at each end of door lid. Top opening compartment shall be provided with a minimum of 10 adjustable dividers per side. The maximum body height in may be increased by up to 1.5 in.

3V.6.46 CODE “UOR” AND CODE “USM” OVERHEAD RACKS WITH LADDER CLAMPS AND SIDE LADDER RACK FOR SUPERSTRUCTURE BODY

When code UOR is specified, removable overhead racks with adjustable brackets for transportation only of ladder(s) shall be provided. When code USM is specified, side mounted ladder racks shall be provided. Code USM requires code USS . All ladder racks shall be equipped with adjustable chain or spring hold down devices.

3V.6.47 CODE “UPR” PIPE RACKS

When code UPR is specified, a pipe rack mounted on top of the curbside cabinet shall be furnished. The front of the rack shall permit the pipes to clear the cab door. The rack shall be equipped with adjustable chain or spring hold down devices.

3V.6.48 CODE “URH” ROPE HOOKS

When code URH is specified, a minimum of four rope hooks, in lieu of adjustable shelves, shall be furnished inside a vertical cabinet.

3V.6.49 CODE “USS” SUPERSTRUCTURE BODY INTERIOR LOADSPACE HEIGHT

USS is not available on single rear wheel chassis.

When code USS is specified, the utility body shall have a center load space; cabinets on each side of the body, with doors opening from the outside; equipment racks above the cabinets, with openings to the inside of the body; a fixed weather tight roof (superstructure) over the load space; and double doors at the rear. As a minimum, the body shall conform to following dimensions:

Load space	
Width (exclusive of wheel wells)	48 inches
Height USS (inside clear)	60 inches
Cabinet space	
Height	39 inches
Depth	20 inches
Racks over cabinets	
Height USS	36 inches
Depth	12 inches
Clear Door opening at rear	
Height	55 inches
Width	48 Inches

A bulkhead fixed safety glass window shall be provided and aligned with the rear cab window.

Double rear doors hinged at the sides shall be provided and shall completely enclose the body interior. The doors shall be equipped with safety glass windows in the upper section, door locks with cylinder locks, and retainers for keeping the doors in open position. The doors shall be equipped with seals to prevent the entry of dust and water.

The center load space shall be prepared and prime coated only. The prime coat shall be light in color.

3V.6.50 CODE “UTC” SPARE TIRE CARRIER IN LOAD SPACE

When code UTC is specified, a vertically mounted tire assembly on a carrier shall be furnished located in the front end of the load space behind the cab. When a load space roof prevents vertical mounting, the tire assembly may be secured horizontally in the load space.

3V.6.51 CODE “UTR” TELESCOPING ROOF

When code UTR is specified, a telescoping roof and end gate enclosure shall be furnished. The telescoping roof shall be provided with automatic catches that lock the roof in full open and full closed positions. The roof shall be constructed to ensure proper roof drainage. The end gate or door enclosure shall have side opening style doors, or two part folding, or single type that can be swung up without interference, and laid on the roof. A single handle, with key lock, that operates two latches, one on each side, shall be furnished on the end gate enclosure.

The load area shall be finish painted the same color as the body exterior in accordance with section 3V.5.4 PAINT, FINISH, OR COLOR.

3V.6.52 CODE “UVB” VICE BRACKET AND PIPE REST

When code UVB is specified, a removable pipe vise bracket and pipe rest shall be furnished on the right side cabinets at rear. The vise plate shall be horizontal, attached to a sliding bar and locked in place by a vertical pin.

3V.6.53 CODE “VR” and VRS” ROOF VENTILATORS

When code VR is specified, two roof type, ventilators shall be furnished having controls for opening and closing on the inside of the van body. Roof vents shall be on center at the front and rear of cargo box.

When code VRS is specified a static ventilator shall be furnished having controls for opening and closing on the inside of the van body. The vent shall be at the upper rear of cargo box on the roof or body side wall.

3V.6.54 CODE “USST” TAPERED SUPERSTRUCTURE BODY

When code USST is specified, the utility body shall have a center load space; cabinets on each side of the body, with doors opening from the outside; equipment racks above the cabinets, with openings to the inside of the body; a fixed weather tight tapered high roof (superstructure) over the load space; and double doors at the rear with a static roof vent located adjacent to the front bulkhead.

As a minimum, the body shall conform to following dimensions:

Load space	
Width (exclusive of wheel wells)	48 inches
Height (inside clear)	60 inches
Cabinet space	
Height	39 inches
Depth	20 inches
Racks over cabinets	
Height	36 inches
Depth at the bottom	20 Inches
Depth at the top	13 inches
Clear Door opening at rear	
Height	55 inches
Width	48 Inches

A bulkhead fixed safety glass window shall be provided and aligned with the rear cab window.

3V.6.55 CODE “ULCL AND ULCR” LONG HORIZONTAL COMPARTMENT

A horizontal compartment that runs from behind the front vertical cabinet to the rear of the body and one vertical cabinet located to the rear of the wheel housing and below the horizontal compartment shall be supplied. When code ULCL is specified, the horizontal compartment shall be located on the left (street) side of the body. When code ULCR is specified, the horizontal compartment shall be located on the right (curb) side of the body.

3V.6.56 CODE “SOC” STORAGE OVER CAB

When code SOC is specified, the body shall be extended over the cab by a minimum of 36” to provide additional storage.

3V.6.57 CODE “RCA” CARGO RAILS

When code RCA is specified, the manufacturer’s standard hard wood cargo rail shall be furnished on each side of the delivery van body.

3V.6.58 CODE “DOM” 2 CEILING DOME LIGHTS

When code DOM is specified, a minimum of 2 LED ceiling mounted cargo dome lights shall be furnished. The lights shall be controlled by a switch in the cab.

3V.6.59 CODE “IR4” INSULATION, CARGO BODY

When code IR4 is specified, the side walls of the delivery van body shall be insulated to a minimum of R4 before the lining is installed.

3V.6.60 CODE “ILF” INTERIOR LINING

When code ILF is specified, side lining shall be 3/16 in minimum exterior grade plywood. The interior body sides shall be smooth or ribbed with no other protrusions except fasteners and corner posts. When steel/aluminum materials are used in combination, these dissimilar metals shall be provided with galvanic insulation at all points of contact. These side liners are to cover side walls from floor to roof rail, with no exposed wiring or struts. All wall liners shall be smoothly fitted with no separation or protrusion between liners. The fasteners shall project no more than 7/64 in into the interior and shall be blended and smooth. Side lining panels furnished shall be securely fastened and completely line the body without gaps between panels. All interior panels shall be removable to facilitate body repair. Each plywood side lining panel shall be free of defects, sanded smooth and flush with adjacent panels.

3V.6.61 CODE “ILH” PARTIAL INTERIOR LINING

When code ILH is specified, the lining required by ILF shall be reduced to 48 inches high.

3V.6.62 CODE “DSR” ROLL UP SIDE DOOR

When code DSR is specified, the delivery van body shall have the manufacturer’s standard roll up curbside door installed. An interior release shall be furnished. The door shall be a nominal width of 40 inches.

3V.6.63 CODE “DSH” HINGED SIDE DOOR

When code DSH is specified, the delivery van body shall have the manufacturer’s standard hinged curbside door installed. The door shall be a nominal width of 40 inches.

3V.6.64 CODE “SSD” SIDE DOOR STEPS

When code SSD is specified, the delivery van body shall have the manufacturer’s standard recessed steps for a curbside door installed. The steps shall have a minimum tread depth of 6 inches.

3V.6.65 CODE “LEDV” BODY EXTERIOR DOT LIGHTING, LED

When code LEDV is specified, the exterior DOT lighting furnished, including the backup lamp(s), shall be LED. The lighting system shall include sealed wiring harness with return ground wiring. .

The sealed wiring harness shall have a lifetime warranty. The LED lights shall have a 5 year warranty as a minimum.

3V.6.66 RESERVED.

3V.6.67 CODE “HTH” Hidden Tamper-proof Hinges

Heavy duty hidden door hinges with overlapping door construction. Resist forcible entry, hinge provides protection against corrosion, does not require frequent lubrication or maintenance. The hinge is not exposed to the weather, provides ease of door replacement.

3V.6.68 CODE “TLR” LOADING RAMPS

When code TLR is specified, a hide-away low mount aluminum loading ramp shall be furnished. The ramp shall be stored in the rail pocket area. The ramp shall have the following:

1. Non-Skid Surface
2. 900 lb minimum capacity
3. Nominal length of 2 feet shorter than body length
4. Designed for 1 person operation

3V.6.69 CODE “BDK” DOCK BUMPER

When code BDK is specified, dock bumpers shall be furnished for liftgate protection.

3V.6.70 RESERVED

3V.6.71 RESERVED

3V.6.72 CODE “IBOX” SUPPLY STORAGE COMPARTMENT

When code IBOX is specified, a supply storage compartment “I Box” shall be frame mounted behind the truck cab. The overall width shall be approximately 24” wide. When mounted, the storage compartment shall nominally match the cab height and width. Upper sides to be tapered, conforming to cab shape. Compartment to have 2 doors per side, 2 fixed shelves, and 4 swivel material hooks.

NOTE: The IBOX option requires that the CA be increased by 24 inches or that the vocational body be decreased by 24 inches in length.

3V.6.73 RESERVED

3V.6.74 RESERVED

3V.6.75 CODE “OMR” OVERHEAD MATERIAL RACK

When code OMR is specified, a removable overhead material rack shall be furnished. The material rack shall have a minimum capacity of 500 lbs. The material rack shall run the full length of the body and extend over the cab. The rear cross member shall be easily removable or hinged to allow access into the body load space. The rack shall be boxed using weather resistant material and secured inside of vehicle load space for shipment. The exterior color of the rack need not match the vehicle exterior color.

3.8 STANDARD AND ADDITIONAL REQUIREMENTS

3.8.1 MARKINGS, DATA PLATES, AND INFORMATION

Caution, instructional, and informational plates/decals/labels shall be conspicuously installed for all equipment requiring such notices. Each vehicle shall be provided with a copy of all applicable warranty documents in the cab compartment.

3.8.2 OPERATOR’S, SERVICING, AND PARTS MANUALS

The contractor shall furnish with the vehicle at least one copy of all warranty information and handbooks for:

- The vehicle
- Any special equipment furnished with, or as a part of the vehicle

The handbooks shall include as a minimum:

- Vehicle operator's manual
- Vehicle maintenance handbook
- Special equipment handbook

3.8.3 PREDELIVERY INSPECTION AND SERVICING

Prior to the acceptance of the vehicle(s), the contractor, at their plant and at the chassis manufacturer's authorized dealership of the same make, shall perform final predelivery inspection. This inspection shall include the predelivery servicing, lubricating, adjustments, appearance cleaning, and everything necessary to make ready to use and operate the vehicle and the furnished contracted equipment. The predelivery servicing shall be performed in accordance with the equipment and chassis manufacturer's prescribed form. Servicing shall comply with the ambient temperatures and conditions applicable with the route of transport and the consignee's ultimate destination and area of operation. All vehicle cooling systems shall be protected per 3.2.9. Dealer or installer shall not affix any decals, plates, logos, or other dealer or installer identification to the vehicle.

3.8.4 DELIVERY

The vehicle shall be processed for shipment from the manufacturer's plant to the initial receiving activity, in accordance with the manufacturer's standard commercial practice (This may include wheels-on-ground transportation).

The warranty begins when the Government accepts the vehicle from the contractor FOB point of delivery destination.

The consignee is responsible for notifying the contractor of the acceptance date and the in-transit mileage accumulation.

3.8.5 GSA FORM 1398

The Vocational Body Contractors shall affix one copy of GSA Form 1398, GSA Purchased Vehicle, fully completed, to the back of the driver's visor or place in the glove box after the final inspection is made at the final stage manufacturer's plant. All marks on windows and other labels (except the Morony label and labels cautioning against drained transmission, crankcase, and rear axle) shall be removed. A PDF version of the GSA Form 1398 is available from the Contracting Officer. Vocational Body Contractors must print this form locally in its entirety at their own expense. The form shall be printed on white or yellow polyester laser S4900 acrylic 70# mr / face w1970 white 2 mil polyester [or equal](#).

NOTE TO OFFEROR: Data shown in the Agency Name block in the Agency Bureau section of the MVDO shall be utilized to complete the receiving agency block of the GSA Form 1398.

Receiving Agency—Examples are: DEFENSE DEPT-NAVY, INTERIOR DEPT, FAS, Etc.

2.25 by 4.5 inches Nominal

GSA PURCHASED VEHICLE		
RECEIVING AGENCY		
CONTRACT NUMBER	FOB	
RPN NUMBER		
MANUFACTURER'S SERIAL NUMBER		
DATE OF DELIVERY	MONTH	YEAR
WARRANTY	MONTHS	MILES
INSPECTED BY		DATE
NOTE TO CONTRACTOR		
<p>INSERT ALL DATA ABOVE AND APPLY THIS LABEL TO THE BACK OF THE DRIVER'S VISOR OR PLACE IN GLOVE BOX AFTER FINAL INSPECTION IS MADE. REMOVE ALL LABELS AND MARKS FROM WINDOWS AND WINDSHIELD EXCEPT THE MORONY LABEL AND THE LABELS CAUTIONING AGAINST DRAINED OIL IN TRANSMISSION, CRANKCASE AND REAR AXLE.</p>		
GSA Form 1398 (Rev. 3-13)		

3.8.6 DEALER DELIVERY

Dealer delivery is standard. The contractor shall have the final predelivery inspection and servicing performed at an authorized dealer of the same make nearest to the destination. Following predelivery servicing, the dealer shall notify the consignee on the delivery order that the vehicle is ready for pick up.

Note: It is the consignee's responsibility to furnish license plate(s) for the vehicle. The vehicle cannot be removed from the dealer under its own power without license plates.

3.8.7 ADDITIONAL REQUIRED SIGNAGE When a snowplow or liftgate is furnished, there must be a label prominently displayed and attached to the snowplow or liftgate that states a contact phone number or website to help the customer find a repair facility for the snowplow or liftgate.

3.8.8 IDENTIFICATION OF VEHICLES

The Contractor must show the applicable GSA Purchase Order number on the carrier's freight bill or other document used in the delivery of vehicles awarded f.o.b. destination under this solicitation. This information is essential to the consignee for identification purposes. Vehicles will not be accepted by the Government without this identifying number.

3.8.9 WORKMANSHIP

- A. Vehicles shall be free from defects that may impair their serviceability or detract from appearance.
- B. All bodies, systems, equipment, and interfaces with the chassis shall be done in accordance with the OEM's Body Builder Book. Whenever dissimilar metals are used, they shall be insulated against corrosive action.
- C. All components shall be new. Defective components shall not be furnished. Parts, equipment, and assemblies, which have been repaired or modified to overcome deficiencies, shall not be furnished without the approval of the purchaser. Component parts and units shall be manufactured to definite standard dimensions with proper fits, clearances, and uniformity. Welded, bolted, and riveted construction utilized shall be in accordance with the highest standards of industry. General appearance of the vehicle shall not show any evidence of poor workmanship.
- D. The following shall be reason for rejection:
 - 1. Rough, sharp or unfinished edges, burrs, seams, corners, joints, cracks, and dents. Sharp corners and edges shall be either rounded or padded to prevent injury to personnel.
 - 2. Interior cleanliness: vehicle interior should not contain trash or manufacturing debris (spare screws, bolts, rivets, etc).
 - 3. Panels, non-uniform with edges that are not radiused, beveled, etc
 - 4. Final stage manufacturer's paint shall be VIRTUALLY free of dirt and not have runs, sags, orange peel, "fisheyes", blisters, bubbles, chips, scratches, cracks, gouges, overspray, peeling, chemical stains, water spots, and any other imperfection or lack of complete coverage.
 - 5. Body panels or components that are uneven, unsealed, or contain cracks, dents or have voids
 - 6. Misalignment of body fasteners, glass, viewing panels, light housings, other items with large or uneven gaps, spacing, etc., such as door, body panels, and hinged panels.
 - 7. Improper body design or interface with the chassis that could cause injury during normal use or maintenance.
 - 8. Improperly fabricated, routed, supported, or secured hoses, wires, wiring harnesses and mechanical controls.
 - 9. Loose, vibrating, abrading body parts, components, or subassemblies.

10. Interference of chassis components, body parts, doors, etc.
11. Leaks of any gas, vacuum, or fluid lines (air conditioning, coolant, oil, etc.).
12. Noise, panel vibrations, etc
13. Sagging, non-form fitting upholstery or padding
14. Incomplete or incorrect application of rust proofing/undercoating when required by Federal Standard.
15. Inappropriate or incorrect use of hardware, fasteners, components, or methods of construction.
16. Incomplete or improper welding, riveting, or bolting. Welded, bolted, and riveted construction utilized shall be in accordance with the highest standards of industry using certified welders.
17. Improper body design or interface with the chassis substructure that could cause injury during normal use or maintenance, and which fail to provide access to perform routine or mandatory repairs or maintenance on vehicle electrical and mechanical systems. In addition, the improper combination of options by their combination and installation are inherently incompatible regarding function or safety.
18. Visual deformities and equipment malfunctions.
19. Lack of uniformity and symmetry where applicable.
20. Unsealed appurtenances or other body components, gaskets, etc.
21. All exterior surfaces shall be smooth and free of wrinkles and dents.
22. Water leaks
23. In addition, any deviation from the requirements or any other item, whether stipulated herein, that affects form, fit, function, durability, reliability, safety, performance or appearance shall be cause for rejection.

3.8.10 STATEMENT OF ORIGIN OR BILL OF SALE

The manufacturer's Certificate of Origin or Bill of Sale for each vehicle procured shall be provided to the purchasing agency. The front of the document shall show the applicable RPN number shown on the Motor Vehicle Delivery Order. Non-OEM re-sellers must re-assign the document to the purchasing agency listed in the Consignee Mailing Address shown on the Motor Vehicle Delivery Order. The document shall be forwarded to the Consignee Mailing Address shown on the Motor Vehicle Delivery Order after the contractor has received payment for the vehicle.

Vehicle title/registration and safety/emission tests are the responsibility of the requisitioning agency.

3.8.11 OVERSEAS VEHICLE REQUIREMENTS

Export vehicle(s) shall conform to applicable FMVSS of U.S.A. Vehicles shall be supplied with OEM export configuration.

The speedometer shall indicate speeds in both miles and kilometers and the odometer shall show cumulative distance in either kilometers or miles.

3.8.12 CODES "WAR" & "WARV" WARRANTY COVERAGE

The contractor shall provide WAR, the OEM commercial whole vehicle (bumper-to-bumper) warranty. This coverage shall be for at least three (3) years from date of acceptance or thirty-six thousand (36,000) miles, exclusive of accumulated drive away mileage, whichever occurs first. Refer to the chassis manufacturer's warranty for precise terms and conditions.

The vocational body contractor shall provide WARV, the manufacturer's warranty for the body and equipment provided in addition to the OEM vehicle. The warranty shall cover parts failure or malfunction due to design, construction or installation errors, defective workmanship, and missing or incorrect parts for a minimum of twelve (12) months or twelve thousand (12,000) miles of operation, exclusive of any accumulated drive away mileage, whichever occurs first. For foreign use vehicles, the period shall be

fifteen (15) months.

Note: The warranty begins when the Government accepts the vehicle at its destination.

3.8.13 CORROSION COVERAGE

The contractor shall provide the chassis manufacturer's commercial corrosion warranty coverage. This coverage shall be for at least 5 years/100,000 miles. This coverage applies only to domestic use vehicles.

3.8.14 EMISSION CONTROL SYSTEM

The contractor shall provide the OEM emission control system warranty, which shall be in conformance with applicable regulations of the U.S. Environmental Protection Agency.

3.8.15 DOMESTIC USE

When vehicles are used within the fifty States of the United States, the District of Columbia, Puerto Rico, American Samoa, Guam, The Republic of Palau, the Federated States of Micronesia, the Commonwealth of the Northern Mariana Islands, the Republic of the Marshall Islands, and the Virgin Islands, the warranty shall include the furnishing, without cost to the Government (FOB contractors nearest dealer or branch to vehicle's location or station), of new parts and assemblies to replace any that failed or malfunctioned within the warranty period. In addition, when the Government elects to have the work performed at the contractor's plant, branch, dealership, or with the contractor's approval to:

1. have the vehicle corrected by a government garage facility
2. have the vehicle corrected by a commercial garage facility

The cost of the labor involved in the replacement of the failed or malfunctioned parts or assemblies shall be borne by the contractor.

3.8.16 FOREIGN USE

When vehicles are used outside the fifty States of the United States, the District of Columbia, Puerto Rico, American Samoa, Guam, The Republic of Palau, the Federated States of Micronesia, the Commonwealth of the Northern Mariana Islands, the Republic of the Marshall Islands, and the Virgin Islands, the warranty shall include the furnishing of new parts or assemblies to replace any returned to the contractor by the Government which failed or malfunctioned within the warranty period. The replacement parts or assemblies shall be delivered by the contractor to the port of embarkation in the United States designated by the Government. The contractor shall not be required to bear the cost of the labor involved in correcting defects in vehicles operated in foreign countries.

3.8.17 WARRANTY EXTENSIONS

If the contractor receives from any supplier or subcontractor additional warranty coverage on the whole or any component of the vehicle, in the form of time and/or mileage including any pro rata arrangements, or the contractor generally extends to their commercial customers a greater or extended warranty coverage, including anti-corrosion, power train, or emission, the Government shall receive corresponding warranty benefits.

3.8.18 UPFIT VEHICLE WARRANTY

The contractor is fully responsible for the comprehensive bumper to bumper warranty of the completed vocational body vehicle including, but not limited to, the chassis, drive-train, fuel system, the vocational body, and all modifications.

4. VOCATIONAL BODY QUALITY ASSURANCE PROVISIONS

Vocational body truck contractors shall only use final stage manufacturers/vehicle alterers that possess:

1. MVP Status as defined by the National Truck Equipment Association (NTEA)
2. Certified upfitter status, as applicable to their OEM makes offered:
 - a. Ram QPro Certification (for Ram Chassis)
 - b. Ford QVM Certification (for Ford Chassis)
 - c. Daimler Master Upfitter Certification (for Daimler Chassis)

4.1 RESPONSIBILITY FOR INSPECTION

The contractor is responsible for the performance of all inspection requirements specified herein. The contractor may use their own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections deemed necessary to ensure that supplies and services conform to prescribed requirements.

4.1.1 CLASSIFICATION OF INSPECTIONS

The solicitation and/or contract will specify the inspection(s) required for each vehicle. The inspections are classified as follows:

4.1.1.A SOURCE INSPECTION

When specified in the contract or motor vehicle delivery order, vehicles shall be visually inspected upon completion, and by examination of documentation and data books, by the Government, prior to shipment from manufacturer's factory or assembly plant to determine compliance with the contract requirements.

4.1.1.B DESTINATION EXAMINATION

When specified in the contract or motor vehicle delivery order, the contracted vehicle(s) shall be examined at its destination. The vehicle(s) shall be visually examined to determine compliance to the contract requirements and include the operational check. Vehicle failures, defects, and/or shortcomings may be accepted subject to correction by the contractor/manufacturer at those points or by dealer.

4.1.1.C FIRST PRODUCTION VEHICLE INSPECTION (FPVI)

When directed by the contracting officer, specified in the contract or motor vehicle delivery order, the first production vehicle produced under contract shall be inspected by the contractor at their plant under the direction and in the presence of Government representatives. The purpose of the inspection shall be to determine vehicle conformity with the contract. Acceptance of the first production vehicle shall not constitute a waiver by the Government of its rights under the provisions of the contract. Failure of the first production vehicle to meet the requirements of the contract shall be cause for the Government to refuse acceptance of the vehicle until corrective action has been taken.

The first production vehicle will be road tested (less payload) by the contractor to ensure that the vehicle will operate in accordance with the contract requirements. The Government reserves the right to perform a road test with payload where such inspections are deemed necessary to ensure the vehicle will operate in accordance with the contract requirements.

Prior to scheduling the inspection, the contractor shall submit the following to the Contracting Officer:

1. A documented process for completing the vehicle. This document shall include, but not be limited to the assembly of all major subassemblies, components and body mounting to chassis and critical substructures
2. Documented compliance rationale for FMVSS pass through certification per the OEM's incomplete vehicle manual. Occupant weight for vocational body trucks shall be calculated at 175 lbs per seated position

4.2 RESERVED

4.3 RESERVED

4.4 RESERVED

4.5 OPERATIONAL CHECK

Operational checks shall be performed on all vehicles delivered under the contract. Checks shall include, but not be limited to all controls, systems, and devices, doors, windows, and accessories.

4.6 RESERVED

4.7 RESERVED

4.8 RESERVED

4.9 RESERVED

4.10 GOVERNMENT VERIFICATION

Quality assurance operations performed by the contractor are subject to Government verification at unscheduled intervals. Verification will consist of observation of the operations to determine that practices, methods, and procedures of the contractor's inspection are being properly applied. Failure of the contractor to promptly correct product deficiencies discovered shall be cause for suspension of acceptance until correction has been made or until conformance of product to specification criteria has been demonstrated.

4.11 PRODUCT CONFORMANCE

The products provided shall meet the salient characteristics of this standard; conform to the producer's own drawings, specifications, standards, and quality assurance practices; and be the same product offered for sale in the commercial market. The Government reserves the right to require proof of such conformance.

5. PACKAGING

5.1 PREPARATION

The vehicle shall be packaged for mobile delivery in accordance with the supplier's standard commercial practice, ensuring carrier acceptance and safe delivery to destination in compliance with regulations applicable to the mode of transportation. The fuel tank(s) shall be filled to at least the quarter full mark on the fuel gauge.

6. NOTES

6.1 ORDERING DATA

Purchasers should select the required vehicle(s) and options from the Federal Vehicle Standards as displayed in AutoChoice. Use the AutoChoice web site at: www.gsa.gov/automotive. AutoChoice is GSA's on-line vehicle ordering system.

6.2 PRECAUTIONS AND OBSERVATIONS

Due to the variety of light truck models this standard must cover, the purchasers are cautioned that the options offered herein are subject to manufacturer's changes or availability. Customizing these standard

vehicles with special requirements may limit the number of offerers and suppliers.

Most special requirement items are not offered as assembly line or factory options. If special features or non-standard equipment is desired, procurement locally of such items after the vehicle is contracted for or received may be more advantageous. Be sure to reference the manufacturer's data books and brochures before ordering vehicle(s) with special requirements.

6.3 PROCEDURE TO IDENTIFY VEHICLES AND OPTIONS

The payload/passenger requirements should be used to help determine the model and GVWR of vehicle required. They are available online in AutoChoice at: www.gsa.gov/automotive.

6.4 DEVIATION FROM FEDERAL STAND NO. 307

Systems or equipment required but not identified in the Federal Vehicle Standards should be identified as additional requirements (the AREQ option in AutoChoice). Contact the Customer Care Office at 703-605-2277 (vehicle.buying@gsa.gov) with questions about the AREQ process. All non-standard/special equipment is reviewed by GSA Engineering to determine the appropriate application.

The ordering agency head or their designee shall determine which vehicle requires specific additional systems or equipment considering the following:

- a) Climate conditions prevailing in the area of operation.
- b) Effect on vehicle operational capabilities.
- c) Special terrain requirements
- d) Availability of maintenance and service facilities.
- e) Fuel availability and cost.
- f) Delivery delays of completed vehicle, due to customizing specified.

6.5 ENERGY POLICY REQUIREMENTS

The fleet fuel economy average of light trucks acquired by an Executive Agency must meet or exceed the average fuel economy standard for the appropriate model year, under Executive Order 12375, dated August 4, 1982. See 41 CFR 102-34.

6.6 NOTIFICATION

Federal Vehicle Standard No. 307 includes light, two wheel drive (4X2) and four wheel drive (4X4) trucks. Automobiles and station wagons appear in Federal Vehicle Standard No. 122. Federal Vehicle Standard 794 covers medium trucks. Federal Standard 807 covers heavy trucks.

6.7 WARRANTY EXCEPTIONS

The following items are considered normal maintenance and repair for which the contractor need not assume liability for reimbursing the Government regardless of the vehicle age or mileage:

- a) Abuse, negligence, or unapproved alteration of original parts.
- b) Damage from accidents.
- c) Brake and standard clutch adjustments.
- d) Headlamp adjustments.
- e) Wheel alignment or tire balancing.
- f) Tires and batteries (if warranted by their manufacturers).
- g) Miscellaneous incurred expenses such as fuel, towing, telephone, travel, lodging, or loss of personal property.
- h) Damage such as atmospheric pollution

6.8 TRAILER TOWING

Trailer towing presents many major concerns relating to equipment reliability, safety and ultimately liability. Because of this fact, it is imperative that agencies follow the OEM's towing guidelines to select the appropriate type of vehicle to perform their trailer towing operations.

Listed below are some facts about towing that agencies engaged in towing operations should be familiar with:

Brake requirements:

Electric brake systems are highly recommended on all sizes of trailers. The towing vehicle chassis manufacturers may require operational brake systems for all trailers having a gross weight of 1,000 lbs. or more.

The use of surge brakes may not permit the use of some equalizing and weight distributing devices.

Total Weight:

The combined weight of the trailer and the load on board the trailer should never exceed the trailer manufacturer's rating of the trailer.

The total combined weight of the towing vehicle, load on board towing vehicle, trailer and load on board trailer should never exceed the towing vehicle chassis manufacturer's GCWR for the towing vehicle.

Tv = weight of loaded towing vehicle.

Tr = weight of loaded trailer.

GCW = combined weight of loaded towing vehicle and loaded trailer.

Tv + Tr Must **NOT** exceed the GCW

GCW may be referred to as GCWR

Trailer Tongue Weight:

Tongue weight should be between 10 - 15% of gross trailer weight.

6.9 TOWING GUIDELINES

Be sure to follow the information specified in the chassis manufacturer's ratings and recommendations (generally available on the internet). Never overload any part of your towing system. Individual state and local government requirements must be adhered to and in cases where the chassis manufacturer's information conflicts with local laws, local laws take precedence.

6.10 RECALL NOTICES

It is essential that the user of the vehicle makes sure your vehicle's registration is up to date, with the correct mailing address and the vehicle's location, Failure to complete this action may result in failure to receive important recall notices

About the NHTSA Office of Defects Investigation (ODI)

The Office of Defects Investigation (ODI) is an office within the National Highway Traffic Safety Administration (NHTSA). ODI conducts defect investigations and administers safety recalls to support the NHTSA's mission to improve safety on our Nation's highways. NHTSA is authorized to order manufacturers to recall and repair vehicles or items of motor vehicle equipment when ODI investigations indicate that they contain serious safety defects in their design, construction, or performance. ODI also monitors the adequacy of manufacturers' recall campaigns. Before initiating an investigation, ODI carefully reviews the body of consumer complaints and other available data to determine whether a defect trend may exist.

To subscribe to NHTSA's Recall Notification E-mail System, use the following link:

<http://www-odi.nhtsa.dot.gov/subscriptions/index.cfm>

6.11 CHANGES AND NOTICES

Requests for changes or additions to the Federal Vehicle Standard, along with rationale, should be sent to the following address for appropriate action:

US General Services Administration
Federal Acquisition Service
Office of Fleet Management
Vehicle Purchasing Division
Vehicle Engineering Branch

1800 F Street, NW
Washington, DC 20405

The requesting agency will be informed of the action taken.

CIVIL COORDINATION & PREPARING ACTIVITY:

GSA-FAS-QMDAA