
PURCHASE DESCRIPTION
LIGHT-HEAVY VEHICLES & BUSES
FOR EUROPEAN MARKETS

FY2024

04 AUGUST 2023

1. SCOPE AND CLASSIFICATION

1.1 SCOPE

This document covers commercially available:

current model year or newer, left hand drive, right hand drive, two and four wheel drive passenger cars and light vehicles with maximum gross vehicle mass of 3500KG. Types include sedans, passenger vans, sport utility vehicles, pick-up trucks, and vocational body trucks.

current model year or newer, left hand drive, two and four wheel drive heavy vehicles with gross vehicle mass of 3500KG to 12000KG (Category N2) and greater than 12000KG (Category N3). Vehicle types include dump, stake, cargo vans, refrigerated vans, and tractors.

current model year or newer, left hand drive, passenger buses. The buses shall be configured with a minimum gross mass of 3500kg (Category N2) and a minimum 3950mm wheel base.

The vehicles covered by this document are listed by Standard Item Number. The SIN description, minimums, options and manufacturers' data can be viewed in the Federal Vehicle Standards.

Note: Applicable to GSA SINs with suffixes "Z", "Q", and "Y"

1.2 PURPOSE

The purpose of this document is to achieve a practical degree of standardization within the United States Government's automotive fleet (for Europe) and to simplify the competitive procurement of vehicles. This requirement establishes various types and sizes of passenger vehicles and general equipment requirements.

1.3 COVERAGE

This requirement covers only those vehicles generally acquired competitively by the United States Government and does not include all the varieties of the commodity indicated by the title.

1.4 CLASSIFICATION

The vehicle's characteristics, components, equipment, and options shall be based upon the Original Equipment Manufacturer (OEM) makes and models offered.

1.5 STANDARD ITEMS AND OPTIONS

The standard item and the coded additional systems and equipment shall comply with the minimum and detailed requirements specified. The options are additional components, systems, devices, markings, and services that are to be provided and installed, when selected. Other special equipment items may be further described in authoritative documents. A minimum requirement cited in this document or in the procurement document is a "Requirement" to be provided under the contract.

1.6 VEHICLES SUBJECT TO STATUTORY PRICE LIMITATIONS

Commercial passenger vehicles, completely equipped for ordinary operation and identified by the item numbers listed in the table below, are subject to statutory price limitations pursuant to 31 U.S.C. § 1343. The current statutory price limitations were established in the Consolidated Appropriations Act, 2023, Public Law 117-73, Division D, Title VII, Section 702 (Dec 29, 2022).

The limits set forth in Division C, Title VII, Section 702 of Public Law 117-73 do not apply to any vehicle that is a commercial item and which operates on emerging motor vehicle technology, including but not limited to electric, plug-in hybrid electric, and hydrogen fuel cell vehicles.

Item No.	7Z	8Z/12Z	13Z	20Z	21Z	25Z
	Class I Minicompact Sedan / SW	Class I Subcompact Sedan / SW	Class II Compact SW	7 PAX Wagon	8 PAX Wagon	5 PAX Wagon
Style	Trunk	Trunk / SW	SW	Van Wagon	Van Wagon	Van Wagon
Engine, Cylinders	2	4	4	4	4	4
Transmission Type	Manual	Manual	Manual	Manual	Manual	Manual
Brake Type	Power Assist	Power Assist	Power Assist	Power Assist	Power Assist	Power Assist
Steering	Power Assist	Power Assist	Power Assist	Power Assist	Power Assist	Power Assist
Front Seats	Bucket	Bucket	Bucket	Bucket	Bucket	Bucket
Front Impact Air Bags	Require	Require	Require	Require	Require	Require
Occupant Restraint	Require	Require	Require	Require	Require	Require

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.

2.2 UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE

ECE/TRANS/132 Global Technical Regulations

ECE/TRANS/180 Global Registry

Directive 715/2007/EC Euro 6

Information Unit

Palais des Nations

CH-1211 Geneva 10, Switzerland

Email: info.ece@unece.org

2.3 THE EUROPEAN TIRE AND RIM TECHNICAL ORGANIZATION (ETRTO)

Standards Manual.

Application for copies of the ETRTO publication should be addressed to:

European Tire and Rim Technical Organizations

Rue Defacqz 78-80

B – 1060 Brussels, Belgium

<https://www.etrto.org>

2.4 ARMY REGULATION

Army Regulation 190-11 Physical Security of Arms, Ammunitions, and Explosives Application for copies of Army publication should reference the code of AR190-11 should be addressed to the Provost Marshal General (DAPM-MPP-PS), 2800 Army Pentagon, Washington, DC 20310-2800

2.5 ORDER OF PRECEDENCE

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

2.6 ABBREVIATIONS AND DEFINITIONS

The following are the abbreviations and their meanings, as they appear in this standard:

ABS	Antilock Braking System
AMP.....	Ampere
AUTO	Automatic
BAT	Battery
CCA.....	Cold Cranking Amps
GVM.....	Gross Vehicle Mass
HD	Heavy Duty
HDA.....	Heaviest Duty Available
KW.....	Kilo Watt
MAN.....	Manual
MAX.....	Maximum
MFR.....	Manufacturer(s)
MIN.....	Minimum
KPH.....	Kilometers Per Hour
OEM	Original Equipment Manufacturer('s)
PASS.....	Passengers
RPN.....	GSA case number
SIN.....	Standard Item Number
WB.....	Wheel Base Dimension
4X4	Four Wheel Drive

3. REQUIREMENTS

3.1 DESIGN

These requirements apply to all OEM provided complete vehicles. The vehicles shall be type approved to the applicable United Nations Economic Commission for Europe (UN ECE) standards in effect at the time of ordering, unless specified otherwise.

3.1.1 VEHICLES

The vehicles and the related equipment provided under this document shall be the vehicle manufacturer's current production. The vehicle(s) offered shall be as shown under the "Standard Item Number". Vehicle(s) shall be complete with all the necessary operating components and accessories customarily provided 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.

3.1.2 BASIC VEHICLE

The basic vehicles were established by statute and are subject to price limitations. Basic vehicles are identified in 1.6 and shall be equipped as specified in 1.6.

3.2 VEHICLE, COMPONENTS, AND SYSTEMS

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 specified regulations on the date of manufacture. In addition, the vehicle(s) shall be provided with the equipment, systems, and accessories as specified by the equipment codes. Equipment codes are defined within this document or are self-explanatory, as generally used in the automotive industry. All components and equipment shall be as represented in the manufacturer's current model year technical data. The OEM component parts of the vehicle need not be the products of the same manufacturer. Optional and standard (GSA minimum requirements) equipment ordered shall be installed, serviced, and ready for use.

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. 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 EMISSION CONTROL SYSTEM.

Vehicles shall comply with the applicable emissions standards in effect at time of order placement.

3.2.5 FUEL SYSTEM

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. 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.

3.2.6 COOLING SYSTEM

A coolant overflow recovery tank and compensating system shall be provided. The cooling system shall be protected with an OEM solution of extended life antifreeze/coolant. The supplier shall provide the OEM maximum size cooling system for the engine provided.

3.2.7 BRAKE SYSTEM

All vehicles provided shall be equipped with the OEM power assisted, self-adjusting, front and rear wheels, Antilock Braking System (ABS), unless specified otherwise.

3.3 DRIVETRAIN

3.3.1 ENGINE

The engine provided shall have the minimum displacement and power as specified. The engine provided shall not exceed the number of cylinders specified in the standard item number.

3.3.2 TRANSMISSION

3.3.2.1 AUTOMATIC TRANSMISSION

When specified, an automatic transmission shall be provided.

3.3.2.1.1 AUTOMATIC TRANSMISSION FLUID COOLER

An automatic transmission fluid cooler shall be provided when an automatic transmission is specified.

3.3.2.2 MANUAL TRANSMISSION

When specified, a manual transmission shall be provided.

3.3.2.2.1 CLUTCH

Vehicles equipped with a manual transmission shall be provided with the OEM heaviest duty available clutch assembly offered for the model provided.

3.3.2.3 AUTOMATED MECHANICAL TRANSMISSION

When specified, an automated mechanical transmission shall be provided.

3.3.3 TRANSFER CASE-FOUR WHEEL DRIVE (4X4) ONLY

A transfer case shall be provided and 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-FOUR WHEEL DRIVE (4X4) ONLY

The OEM heaviest duty available 4X4 full time or front wheel locking system engaged from the cab shall be provided. Vehicles shall have automatic locking hubs.

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 GVM. All vehicles shall be provided with OEM heaviest duty available springs, shock absorbers, and stabilizer device(s).

3.4.2 SPRING STOPS

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

3.5 SPARE TIRE, JACK, AND TOOLS -PASSENGER -LIGHT VEHICLES

When available from the OEM as standard equipment or as an OEM option, a full size spare assembly (a tire mounted on a wheel) shall be provided as a part of the basic (minimum) vehicle. The full size spare tire shall be of the identical load range and rolling design characteristics as the tires provided on the steering axle. In some cases the full size spare tire may not match identically in tread pattern or tire dimensions. If a full size spare assembly is not offered by the OEM, a space saver type spare assembly or an inflation kit shall be provided if offered by the OEM as standard or an option.

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

OEM jack and tire changing tools shall be provided.

3.5 ELECTRICAL

3.5.1 ALTERNATOR AND BATTERY

A generating system capable of supplying the total continuous electrical load at normal engine idle for the equipment provided with the completed vehicle shall be provided. Batteries provided shall be of the maintenance-free type.

3.6 EQUIPMENT AND ACCESSORIES

3.6.1 STANDARD EQUIPMENT AND ACCESSORIES PASSENGER AND LIGHT VEHICLES

Except as identified in vehicles subject to statutory price limitations, each vehicle shall be equipped with, but not limited to, the following OEM accessories: driver and passenger front air bags (unless specified otherwise); air conditioning (unless specified otherwise); interior lighting (dome); dual sun visors; dual outside mirrors; non-glare day and night type inside mirror; multi-speed, intermittent dual electric windshield wipers and washers; rear window defroster; finished steel wheels with center hubcaps, or full size wheel covers, or cast aluminum wheels; headliner; floor carpet including carpeted mats for front and rear seating areas; trunk floor covering (carpet/mat); all tinted glass windows when available; electric power outlet; OEM rust-proofing or undercoating, keyed driver's door lock, and two sets of keys/fobs. Provisions for mounting front and rear European license plates shall be provided. License plate brackets shall be provided when available from the OEM.

3.6.1.1 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.

3.6.1.2 PAINT, FINISH, OR COLOR

The government agencies' vehicle(s) exterior will be selected from the manufacturer's standard colors offered. The interior finish shall be manufacturer's standard color compatible with the exterior.

3.6.1.2 MIRRORS, OUTSIDE

Dual OEM outside rearview mirrors shall be provided, one on each side of the vehicle.

3.6.1.3 WHEELS, TIRES, and TIRE TREADS

Tires with All Season (AS) tread shall be provided as the GSA minimum. The AS tires shall include the Alpine symbol, three peak mountain with snow flake (3PMSF).



The wheel and tire size shall be provided 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. The tires provided will be of the passenger car or light truck type depending on the GVM of the vehicle.

TIRE TYPES

Passenger (P) vehicle tires 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.

TIRE TREADS

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.

The All-Terrain (AT) tread is suitable for both on-road and off-road use. 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 on-road. The All-Terrain (AT) tread is offered as an option on many vehicles. The AT tires shall include the Alpine symbol, three peak mountain with snow flake (3PMSF).



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.

3.6.2 STANDARD EQUIPMENT AND ACCESSORIES HEAVY VEHICLES

3.6.2.1 STANDARD EQUIPMENT AND ACCESSORIES

Each vehicle shall be equipped with, but not limited to, the following OEM accessories: air conditioning (unless specified otherwise); interior lighting (dome); cloth upholstery, dual sun visors; dual outside mirrors; multi-speed, intermittent dual electric windshield wipers and washers, floor mats, back up alarm, power outlet, keyed driver's door lock, and two sets of keys/fobs. Provisions for mounting front and rear European license plates shall be provided. License plate brackets shall be provided when available from the OEM.

3.6.2.2 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.

3.6.2.3 WHEELS, TIRES, AND TIRE TREADS

The wheel and tire size shall be provided as specified by each OEM. Wheels and tires shall be of the identical size, type, brand, and load ranges per axle. All tires shall have radial construction.

The tires shall include the Alpine symbol, three peak mountain with snow flake (3PMSF).



TIRE TREAD PATTERN

Regional tread shall be standard.

Mud + Snow (M+S) tread shall be provided when specified

3.6.3 STANDARD EQUIPMENT AND ACCESSORIES PASSENGER BUSES

3.6.3.1 ENGINE

A diesel engine shall be provided meeting the minimum displacement, power, and torque ratings and shall not exceed the number of cylinders, as specified in the Standard Item Number (SIN). The engine shall be equipped with an hour meter.

3.6.3.2 DOORS AND WINDOWS

Double rear doors shall be provided on front engine configurations. A sliding electric door shall be provided on the right (passenger) side. The door locks shall be keyed alike. The passenger windows shall be fixed touring, panoramic style. The rear window shall include an electric defroster. The windshield wipers shall provide intermittent control. The doors shall include power windows and locks.

3.6.3.3 AUTOMATIC TRACTION CONTROL

OEM Automatic Traction Control (ATC) shall be provided.

3.6.3.4 INTERIOR

An air-conditioning and heating system shall be provided. The interior ceiling and walls shall be the OEM's standard commercial offerings. Cloth upholstery shall be provided. The interior dimensions shall meet the minimum requirements as specified in the SIN.

3.6.3.5 SEATING

A suspension type seat shall be provided for the driver position. The seating capacity shall be based upon a payload of 80kg for each occupant and the minimum quantity of passenger seating positions identified in the Standard Item Number.

3.6.3.6 SIDE DOOR STEPS

Steps shall be provided on the side loading doors. The steps may be fixed or retractable as available by the OEM.

3.6.3.7 WHEELS, TIRES, AND TIRE TREADS

The wheel and tire size shall be provided as specified by each OEM. Wheels and tires shall be of the identical size, type, brand, and load ranges per axle. All tires shall have radial construction.

The tires shall include the Alpine symbol, three peak mountain with snow flake (3PMSF).



When available from the OEM as standard equipment or as an OEM option, a full size spare assembly (a tire mounted on a wheel) shall be provided. The full size spare tire shall be of the identical load range and rolling design characteristics as the tires provided on the steering axle. OEM jack and tire changing tools shall be provided. The wheel covers shall be full size, if equipped.

3.7 VEHICLE EQUIPMENT CODES

The content of the following equipment codes are described in detail as required. Equipment codes may be specified as GSA minimum requirements for the standard item number or may be specified as GSA orderable options for the standard item number. All equipment codes do not apply to all standard items numbers.

3.7.1 CODE "AICE" AUTOMATIC TIRE CHAINS

When code AICE is specified, automatic tire chains shall be provided.

3.7.2 CODE "AM6" AUTOMATED MANUAL TRANSMISSION 6 SPEED

When code AM6 is specified, an automated manual transmission with 6 forward speeds shall be provided.

3.7.3 CODE "ARW" AIR SLIDE FIFTH WHEEL

When code ARW is specified, an air operated sliding fifth wheel coupler shall be provided.

3.7.4 CODE "AT" ALL TERRAIN TREAD TIRES

When code AT is specified, All-Terrain rated tread tires of the minimum size specified shall be provided.

3.7.5 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.

3.7.6 CODE "AUXB" AUXILLIARY BATTERY

When code AUXB is specified, an auxiliary battery shall be provided.

3.7.7 CODE "AVSC" AUTOMATIC VEHICLE STABILITY CONTROL

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

3.7.8 CODE "BDF4" FLOORING BED RECYCLED MATERIAL

When option code BDF4 is specified, recycled tire and plastic plank boards shall be furnished. Plank boards shall be tongue and groove secured to bed frame with stainless steel self-tapping countersunk screws.

3.7.9 CODE "BL" BED LINER

When code BL is specified, an OEM protective cargo bed liner shall be furnished.

3.7.10 CODE "BTBE" TARPAULIN AND FRAME

When code BTBE is specified, a tarpaulin and frame shall be provided.

3.7.11 CODE “BTC” TOOL COMPARTMENT STEEL WITH LATCH

When code BTC is specified, a toolbox shall be provided. Minimum exterior dimensions shall be 457 mm (18 in) by 457 mm (18 in) by 609 mm (24 in). A door opening size of not less than 482 mm (19 in) by 330 mm (13 in) shall be furnished. The toolbox shall be fabricated of not less than 14-gauge (2.657 mm) (0.1046 in) steel or of equivalent strength aluminum. The toolbox shall be weatherproof and shall provide a latch and a means for locking. The toolbox shall be mounted as close as possible to the rear of the cab. Toolbox shall be mounted on the curbside of the vehicle whenever space permits.

3.7.12 CODE “BTCS” BLUE TOOTH COMPATIBLE SYSTEM

When code BTCS is specified, blue tooth compatible system shall be provided.

3.7.13 CODE “BUA” BACK-UP ALARM

When code BUA is specified, a back-up alarm shall be provided.

3.7.14 CODE “CBE” CARGO BED EXTENDER

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

3.7.15 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.

3.7.16 CODE “CPRE” CAB PROTECTION SCREEN

When code CPRE is specified, a cab protection screen shall be provided.

3.7.17 CODE “CPT” CUSTOM PAINT

When code CPT is specified, custom paint color shall be provided.

3.7.18 CODE “CR” CRUISE CONTROL

When code CR is specified, cruise control shall be provided.

3.7.19 CODE “CRTS” CRUISE CONTROL AND TILT STEERING

When code CRTS is specified, cruise control and tilt steering shall be provided.

3.7.20 CODE “CSRE” CHILD SAFETY REAR DOORS

When code CSRE is specified, child safety rear doors shall be provided.

3.7.21 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.

3.7.22 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

3.7.23 CODE “CU” CLOTH UPHOLSTERY

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

3.7.24 CODE “D3” SPECIAL TRACTION

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

3.7.25 CODE “DSS” DRIVER SEAT. AIR SUSPENSION TYPE

When code DSS is specified, the driver seat, air suspension type, shall be provided.

3.7.26 CODE “DSS2” DRIVER AND PASSENGER SEAT. AIR SUSPENSION TYPE

When code DSS2 is specified, the driver and passenger seats, air suspension type, shall be provided

3.7.27 CODE “DSPE” DRIVER SEAT COMFORT PACKAGE

When code DSPE is specified, an OEM driver seat comfort package shall be provided.

3.7.28 CODE “DTG” DARK TINTED GLASS

When code DTG is specified, dark tinted glass on all windows behind the front seat shall be provided.

3.7.29 CODE “DVD” HINGED TYPE REAR DOORS

When code DVD is specified, hinged type rear doors shall be provided.

3.7.30 CODE “DVM” DELETE VOCATIONAL BODY

When code DVM is specified, the vocational body shall be deleted.

3.7.31 CODE “EH” ENGINE BLOCK HEATER

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

3.7.32 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.

3.7.33 CODE “ELFS” FOLD UP TROOP SEATS

When code ELFS is specified, fold up troop seats shall be provided.

3.7.34 CODE “FEE” FIRE EXTINGUISHER TRUNK MOUNTED

When code FEE is specified, a fire extinguisher mounted to the vehicle shall be provided.

3.7.35 CODE “FEX” SAFETY KIT AND FIRE EXTINGUISHER

When code FEX is specified, a safety kit and fire extinguisher shall be provided. The safety kit shall include reflective triangles and two (2) safety vests or EU approved warning lights. A type ABC fire extinguisher rated a minimum 2KG shall be provided.

3.7.36 CODE “FLU” FORK LIFT USE FLOORING

When code FLU is specified, taller body and reinforced flooring for fork lift use shall be provided.

3.7.35 CODE “FOG” FOG LIGHTS

When code FOG is specified, a fog lights shall be provided.

3.7.37 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.

3.7.38 CODE “HB” HATCH BACK

When code HB is specified, a hatch back style body, in lieu of trunk, shall be provided.

3.7.39 CODE “HDAC” HEAVY DUTY AIR CONDITIONING

When code HDAC is specified, heavy duty air conditioning shall be provided.

3.7.40 CODE “HEV”

When code HEV is specified, an OEM hybrid electric system shall be provided.

3.7.41 CODE “HRD” HATCH TYPE REAR DOOR

When code HRB is specified, a hatch type rear door shall be provided.

3.7.42 CODE “HRO1” HIGH ROOF HEIGHT 1750 MM

When code HRO1 is specified, a high roof van with minimum interior height of 1750 mm shall be provided.

3.7.43 CODE “HRO2” HIGH ROOF HEIGHT 1900 MM

When code HRO2 is specified, a high roof van with minimum interior height of 1900 mm shall be provided.

3.7.44 CODE “HTG” HYDRAULIC TAIL LIFTGATE

When code HTG is specified, a hydraulic tail liftgate rated at a minimum 1000 kg shall be provided.

3.7.45 CODE “HTGU” HYDRAULIC LIFT TAILGATE

When code HTGU is specified, a fold under hydraulic lift tailgate rated at a minimum of 1000 kg shall be provided.

3.7.46 CODE “LPV” LIGHT PATROL PACKAGE

When code LPV is specified, a light patrol package shall be provided.

3.7.47 CODE “LRE” LADDER RACK

When option code LRE is specified, a full width ladder rack shall be provided on the roof of the vehicle. The ladder rack shall be equipped with adjustable chain or spring hold down devices.

3.7.48 CODE “LRI” OVERHEAD STORAGE RACKS

When code LRI is specified, interior overhead storage racks shall be provided.

3.7.49 CODE “LU90” DOD LE PATROL UPFIT EURO

When code LU90 is specified, the following shall be provided.

- a. exterior finish- color selected by ordering activity.
- b. dual interior mirrors
- c. blue flashing lights (strobe) in trunk lid
- d. light bar with LED blitzer with front and rear spot and alley lights
- e. programmable siren (no less than 100 watts) with hand held controls
- f. two (2) blue LED lights shall be mounted on front grill area
- g. 12 volt outlet in Dash console
- h. low voltage relay.
- i. microphone and loudspeaker for external broadcasting. Microphone must be accessible by driver or passenger without obstruction and integrated into the operator controls of the vehicle .
- j. OEM multi-contour front seats with durable aftermarket seat covers

k. exterior vinyl graphics covering side- color blue with white lettering for the words "MILITARY POLICE" with reflective border no less than 6" high lettering to maximize perception reaction for the public.

l. OEM center console shall be utilized . Two (2) power ports for 12-volt , a terminal block with two (2) 20 amp spare circuits ignition only for radio, and mounting provisions for warning and flood light controls shall be provided.

m. One (1) weapon vault or lock shall be provided. The weapon vault/lock shall not interfere with access to the spare tire. The weapon vault/lock shall secure the weapon with a unique styled key-locking mechanism, which requires a unique specific key to open (or release) and secure. The weapon vault/lock shall prohibit (by mechanical restriction) the ability to chamber a round while the weapon is secured. The weapon vault/lock shall prevent the ability to remove the magazine while the weapon is secured. The weapon vault/lock shall restrict access to the take-down pins, trigger group, and magazine release. The weapon mount shall secure the weapon with a unique styled key-locking mechanism, which requires a unique specific key to open (or release) and secure. The weapon mount shall utilize keys and key control security measures as defined in Army Regulation 190-11. Combination or cypher locks are not acceptable. A weapon lock may be integrated or mounted onto the specified equipment tray.

n. An equipment tray shall be provided in the rear cargo area. One (1) tilt up mount assembly with an underside equipment tray for mounting provisions for a radio amplifier shall be provided to allow access to the spare tire/wheel assembly (if equipped) . Equipment tray and tilt up mount may not be available on sedans.

o. One (1) 2kg minimum fire extinguisher, type ABC dry chemical, shall be provided and installed.

p. upon delivery, the government end user will furnish and install a Motorola radio model APX6500 with 07 (GA00805) remote heads.(the radio will be Government Furnished and Government Installed,).

https://www.motorolasolutions.com/en_us/products/two-way-radios/project-25-radios/mobile-radios.html

The contractor shall provide and install power, ground, and antenna wiring including the following unless noted otherwise. The rear cargo ends of the antenna cables shall be terminated with mini-UHF male crimp connectors. All console and rear cargo cable ends shall be a minimum length of a 60 CM service loop. All antennas shall be at least 45 CM from any other antenna or light bar.

1. install roof mounted antenna, Kathrein model K 50 54 4, or equal. The antenna kit shall be rated for a maximum 80 watts, 0 dB gain, with a frequency range of 62 to 300 MHz.

2. install mounting plate for radio bracket in trunk

3. prewire power circuits, 12V-5A (30), 12V-5A (ignition) (15), in trunk

4. provide and install power and data cables for the referenced Motorola radios as noted below.

The contractor shall supply and install one (1) control head power cable in the center console, one end connected to a 12VDC power source-(ignition).	Motorola	HKN6188B	1
The contractor shall supply and install the following radio remote mount cables routed from the head (console) to the base (equipment tray),	Motorola	HKN6169	1

cable length 5M/17 feet			
The contractor shall supply and install the following power cable in the rear equipment tray, one end connected to 12VDC power source 30 Ampere	Motorola	HKN6110B	1

q. Durable floor mats shall be provided in the front cabin, remove and replace the OEM carpet mats.

3.7.50 RESERVED

3.7.51 CODE "LU92" DOD LE MWD UPFIT EURO

When code LU92 is specified, the following shall be provided.

- a. exterior finish- color selected by ordering activity
 - c. light bar with LED blitzer with spot and alley lights
 - d. programmable siren
 - e. main beam and fog light flashing (main beams daytime only) or two (2) blue LED lights shall be mounted in the front grill area
 - f. 12 volt outlet in center console
 - g. low voltage relay
 - h. microphone and loudspeaker for external broadcasting
 - i OEM .multi-contour front seats with aftermarket durable seat covers
 - j. protection foil for B and C pillars
 - k. exterior vinyl graphics covering side- color blue with words "MILITARY POLICE" with reflective border
 - l. One (1) long gun weapon locker shall be provided and installed in the rear cargo area, The locker shall provide sufficient clearance so it may be opened with large vari kennel loaded. The locker shall include carpet, rigid foam, compression handles, and push button lock. The locker shall secure the M16 rifle with M68 or M150 optics, using the TACOM approved M16 collapsible butt stock conversion kit, the M4A1 rifle with M68 or M150 optics, and the M4 rifle with M68 or M150 optics. The dimensions and location of the weapons locker shall allow transport of an extra-large portable kennel, Vari type kennel, with the following dimensions 36" length x 24" width x 30 " height.. Tie down provisions and ratchet straps shall be provide to secure the Vari type kennel. The weapon mount shall secure the weapon with a unique styled key-locking mechanism, which requires a unique specific key to open (or release) and secure. The weapon mount shall utilize keys and key control security measures as defined in Army Regulation 190-11. Combination or cypher locks are not acceptable.
 - m. One (1) canine platform with door panels shall be provided and installed. The platform shall be constructed from mill finish aluminum, or equal.
- The platform shall include a front and rear emergency escape doors on sliding track with locking system. A flip down platform ramp shall be provided for each escape door to improve canine leg safe ease of egress. A seamless spill-proof base shall be contoured to allow canine leg safe ease on entry and exit. The base shall extend door sill to door sill utilizing all available space and allowing for easy rinsing and cleaning without damage to the vehicle. The canopy shall include allow for maximum airflow from the

vehicles OEM rear A/C and heat. All platforms shall include contoured window guards and door panels. . The door panels shall be contoured, smooth, flat design. All mounting shall be tool fastened. All sharp edges shall be deburred.

The front partition shall include clear perforated plastic guards behind the driver and passenger head rests, full height of the sections of the partitions. The guards shall prevent the canine from accessing the seating head rests. The guard shall be installed on the forward side of the partition.

One (1) rubber mat liner shall be provided.

One (1) temperature monitor, alarm, fan, shroud, and control module shall be provided and installed... The exhaust fan shall be fully shrouded. The fan shall be thermostatically controlled with user adjustable range The system shall be installed in accordance to the manufacturer's instructions.

One (1) remote pager with control, antenna, and cabling shall be provided and installed.

n. upon delivery, the government end user will furnish and install a Motorola radio model APX6500 with 07 (GA00805) remote heads (the radio will be Government Furnished and Government Installed).

https://www.motorolasolutions.com/en_us/products/two-way-radios/project-25-radios/mobile-radios.html

The contractor shall provide and install power, ground, and antenna wiring including the following unless noted otherwise. The rear cargo ends of the antenna cables shall be terminated with mini-UHF male crimp connectors. All console and rear cargo cable ends shall be a minimum length of a 60 CM service loop. All antennas shall be at least 45 CM from any other antenna or light bar.

1. install roof mounted antenna, Kathrein model K 50 54 4, or equal. The antenna kit shall be rated for a maximum 80 watts, 0 dB gain, with a frequency range of 62 to 300 MHz.

2. install mounting plate for radio bracket in trunk

3. prewire power circuits , 12V-5A (30), 12V-5A (ignition) (15), in trunk

4. provide and install power and data cables for the referenced Motorola radios as noted below.

The contractor shall supply and install one (1) control head power cable in the center console, one end connected to 12VDC power source (ignition)	Motorola	HKN6188B	1
The contractor shall supply and install the following radio remote mount cables routed from the head (console) to the base (equipment tray). cable length 5M/17 feet	Motorola	HKN6169	1
The contractor shall supply and install the following power cables in the rear equipment tray, one end connected to 12VDC power source 30 Ampere.	Motorola	HKN6110B	1

3.7.52 CODE "LEDH" LED HEADLIGHTS

When code LEDH is specified, OEM LED headlights for at least the low beam function shall be provided.

3.7.53 CODE "LPG2" BIFUEL ENGINE

When code LPG2 is specified, a bifuel engine capable of operating on petro (gas) and propane (autogas) shall be provided.

3.7.54 CODE "LRE" LADDER RACK

When code LRE is specified, a roof mounted ladder rack shall be provided.

Note: Shall not be offered or ordered in combination with GSA option HRO, HRO1, or HRO2

3.7.55 CODE "LRI" OVERHEAD STORAGE RACKS

When code LRI is specified, interior overhead storage racks shall be provided.

3.7.56 CODE "LSDE" LEFT SIDE SLIDING DOOR

When code LSDE is specified, a left side sliding door shall be provided.

3.7.57 CODE "MBG" FRONT BRUSH GUARD

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

3.7.58 CODE "MCTL" MILITARY PACKAGE

When code LPV is specified, a military package shall be provided.

3.7.59 CODE "MER2"

When code MER2 is specified, heated and powered outside mirrors shall be provided.

3.7.60 CODE "MF" FLOOR MATS

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

3.7.61 CODE "MF" FLOOR MATS

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

3.7.62 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:

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

3.7.63 CODE "MTTP" MILITARY TROOP TRANSPORT PACKAGE

When code MTTP is specified, a military troop transport package shall be provided.

3.7.64 CODE "MOCE" MOBILE OFFICE CONVERSION PACKAGE

When code MOCE is specified, carpeted floor mats shall be provided.

a. Automatic transmission (T2) or Mechanical automated transmission (TMA)

b. Dark Tinted Glass (code DTG)

c. Map lights front and rear seating positions, minimum quantity two (2)

d. Navigation System with Map West Europe (code NAVE)

e. Two (2) bucket seats second row, swivel or rear facing

f. OEM bench seat or two (2) bucket seats in the third row, fixed forward facing

g. All rear seats with arm rests

h. One (1) table, swiveling or folding, minimum 1600 square cm, located between the second and third row seating

i. Blue Tooth Compatible System (BTCS)

j. One (1) inverter, 12VDC input 230VAC output, minimum 700W, with four (4) AC Schuko outlets in the rear seating area

k. Four (4) 12VDC power outlets in the rear seating area

l. One (1) additional 12V battery, AGM type 100ah

3.7.65 CODE "MOIB" MODULE INSERT BASIC

When code MOIB is specified, the following shall be provided.

- Birch plywood flooring with slip resistant surface (minimum 12 mm thick) with edge protection
- Protection cladding for the vehicles inside walls (minimum 4mm thick)
- Air ventilation system (hazardous material), one (1) integrated in the floor and one (1) roof mounted
- Cargo securing accessories (cargo restraint tracks on each roof rib, six (6) span belts, four (4) cargo security bars, six (6) load securing pads) , airline system for track fitting

The following sketch is for reference only:

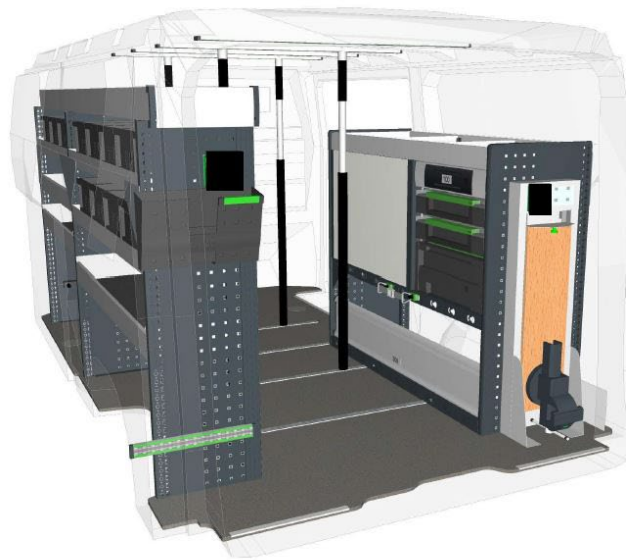


3.7.66 CODE "MOIF" MODULE INSERT FULL

When code MOIF is specified, the following shall be provided.

- Birch plywood flooring with slip resistant surface (minimum 12mm thick) with edge protection
- Protection cladding for the vehicles inside walls (minimum 4mm thick)
- Air ventilation system (hazardous material), one (1) integrated in the floor and one (1) roof mounted
- Cargo securing accessories (cargo restraint tracks on each roof rib, six (6) span belts, four (4) cargo security bars, six (6) load securing pads) , airline system for track fitting
- Fold-out vise, minimum 125 mm
- Gas bottle holder with two (2) lashing rails and two (2) ratchet straps for airline track system
- Left side shelf element with shelves and trays long item shelf with anti-slip mat, shelf with anti-slip mat, sliding case clamp, integrated loading security (fitting)
- Right side: rotated service cabinet with 3 drawers (including anti-slip mat), four (4) cases, shelf with anti-slip mat, integrated loading security (fitting)

The following sketches are for reference only:

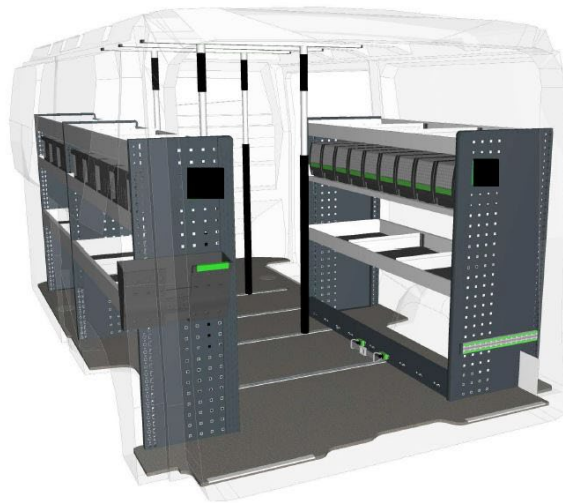


3.7.67 CODE "MOIM" MODULE INSERT MEDIUM

When code MOIM is specified, the following shall be provided.

- Birch plywood flooring with slip resistant surface (minimum 12 mm thick) with edge protection
- Protection cladding for the vehicles inside walls (minimum 4mm thick)
- Air ventilation system (hazardous material), one (1) integrated in the floor and one (1) roof mounted
- Cargo securing accessories (cargo restraint tracks on each roof rib, six (6) span belts, four (4) cargo security bars, six (6) load securing pads) , airline system for track fitting
Left side shelf element with shelves and trays, shelf with divider and anti-slip mat,
integrated span belt, integrated loading security (fitting)
Right side: service cabinet shelf with anti-slip mat, integrated loading
security (fitting)

The following sketches are for reference only:



3.7.68 CODE "MPR" WINTER SERVICE PACKAGE

When code MPR is specified, the following shall be provided.

- a. Additional lights, one set raised auxiliary dual beam headlights, parking, and turn signal lights
- b. Two rotating orange lights behind cab , height shall be adjustable
- c. Plate (Size 3 or 5) for snow plow including 24V socket for snow plow marking lamps
- d. 2-circuit hydraulic system for snow plow and salt box (DIN 30732)

3.7.69 CODE "MSE" WINTER TIRES AND WHEELS

When code MSE is specified, a quantity of four (4) winter rated snow tires installed on wheels shall be provided. The winter rated snow tires and wheels shall be shipped loose , provided in addition to the tires/wheels installed on the base vehicle. The assembly shall include tires mounted on wheels. The wheel and tire size shall be furnished as specified by the OEM. The winter tires shall include both the Mud + Snow (M+S) symbol and the Alpine symbol, three peak mountain with snow flake (3PMSF). The winter tires have operational temperature limits and shall not include studs. Each tire shall be equipped with a tire pressure monitoring sensor compatible with the vehicle.



3.7.70 CODE "MT" MANUAL TRANSMISSION

When code MT is specified, the OEM manual transmission shall be provided.

3.7.71 CODE "NAVE" NAVIGATION SYSTEM

When code NAVE is specified, an OEM navigation system with Western European maps shall be provided. The navigation display and menu shall be selectable or configurable in English. The navigation system shall mounted in the dash

3.7.72 CODE "PSM and 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 provided. When PSM is specified, the publications provided shall be printed documents. The publications shall be in English. The publications may be shipped separately from the vehicle to the consignee mailing address as shown on the Motor Vehicle Delivery Order. If the OEM does not support printed manuals, the offeror/contractor shall configure this GSA option as "Not Available" during the proposal phase.

When PSME is specified, the publications shall be provided in electronic media, or it may be web based. All subscriptions beyond the 1st year shall be the ordering activity's responsibility. If the OEM does not support electronic manuals, the offeror/contractor shall configure this GSA option as "Not Available" during the proposal phase.

3.7.73 CODE "PWL" POWER WINDOWS AND LOCKS

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

3.7.74 CODE "RKE" REMOTE KEYLESS ENTRY

When code RKE is specified, OEM remote keyless entry system shall be provided.

3.7.75 CODE "RF" RUBBER FLOOR COVERING

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

3.7.76 CODE "RHD"

When code RHD is specified, right hand drive shall be provided.

3.7.77 CODES "RH3 AND RH4" OEM TRAILER TOWING PROVISIONS

The trailer towing provisions furnished shall be rated by the OEM's.

All OEM towing provisions include:

- A trailer lighting package
- The OEM's standard electrical connector
- 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.

3.7.78 CODE "RKE" REMOTE KEYLESS ENTRY

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

3.7.79 CODE "RM6" EXTERIOR MIRRORS HEATED AND REMOTE CONTROLLED

When code RM6 is specified, exterior mirrors that are heated and remote controlled shall be provided.

3.7.80 CODE "SAR" AIR SPRING SUSPENSION

When code SAR is specified, an air spring suspension shall be provided.

3.7.81 CODE "S3E" THREE PASSENGER SEATING

When code S3 is specified, driver plus 2 passenger seating shall be provided.

3.7.82 CODE "S5" FIVE PASSENGER SEATING

When code S5 is specified, driver plus 4 passenger seating shall be provided.

3.7.83 CODE "S6" SIX PASSENGER SEATING

When code S6 is specified, driver plus 5 passenger seating shall be provided.

3.7.84 CODE "S7" SEVEN PASSENGER SEATING

When code S7 is specified, driver plus 6 passenger seating shall be provided.

3.7.85 CODE "SK" METRIC ODOMETER

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

3.7.86 CODE "SP" SKID PLATES

When code SP is specified, protective plates, or shields, shall be provided. The OEM skid plate(s) shall provide protection for at least the transfer case. The skid plates shall be demountable for service of the components they protect. Sufficient openings shall be provided to enable draining of transmission and servicing the underside of the engine.

3.7.87 CODE "SRG" SLIDING REAR WINDOW

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

3.7.88 CODE "SRO" REVERSE OBSTACLE SENSOR

When Code SRO is specified, a reverse obstacle sensor shall be provided.

3.7.89 CODE "STE" SUMMER TIRES

When Code STE is specified, summer rated tires shall be provided.

3.7.90 CODE "SZE" SNOW PLOW PREP PACKAGE

When option code SZE is specified, snow plow prep package shall be provided. The package shall include driver controlled hydraulic system with dual circuits to support a plow and a salt box. The hydraulic system shall comply to DIN 30742 (hydraulic systems for winter service vehicles with 2 hydraulic systems). A mounting plate for size 3 or 5 snow plow shall be provided. A 24volt socket shall be provided for the snow plow marking lamps. Additional lights for winter service shall include a set of raised auxiliary dual beam headlights, parking lights, and turn signal lights. Two (2) rotating orange lights shall be installed on the cab roof. The exterior color of the vehicle, cab and body, shall be orange (code RAL2011).

3.7.91 CODE "T1" RETARDER-AUTOMATIC TRANSMISSION-INTEGRAL

When code T1 is specified, a hydrodynamic retarder integral with the automatic transmission (transmission retarder), shall be furnished. A dash mounted switch shall be provided to activate, modulate, or cut the brake augmentation. The switch shall be marked to indicate its position. When active, the system shall be fully controlled by means of the conventional driving controls to apply retardation during vehicle deceleration, and to cut it out in the other operating modes.

3.7.92 CODE "TBE" ELECTRIC TRAILER BRAKE CONTROLLER

When option code TBE is specified, an electric brake controller to be integrated in the dash or attached within reach of the driver. Features shall include monitoring, control, and diagnostics.

3.7.93 CODE "TSCF" TIRE-SPARE ASSEMBLY AND CARRIER-FRONT AXLE

When code TSCF is specified, an inflated spare wheel/tire assembly, identical to the front tires, furnished in a readily accessible carrier, located as to not protrude beyond the body and attached to the chassis, shall be provided. The tire must be positioned horizontal to the ground. The wheel shall be a steel disc regardless of optional wheel choices.

3.7.94 CODE "TSCR" TIRE-SPARE ASSEMBLY AND CARRIER--REAR AXLE

When code TSCR is specified, an inflated spare wheel/tire assembly, identical to the rear tires, furnished in a readily accessible carrier, located as to not protrude beyond the body and attached to the chassis, shall be provided. The tire must be positioned horizontal to the ground. The wheel shall be a steel disc regardless of optional wheel choices. When a wide single/floatation front tire is required by equipment selection, this option is not available.

3.7.95 CODE "T2" AUTOMATIC TRANSMISSION

When Code T2 is specified, an automatic transmission shall be provided.

3.7.96 CODE "TMA" MECHANICAL AUTOMATED TRANSMISSION

When Code TMA is specified, a mechanical automated transmission shall be provided. The transmission may allow clutch-less shifting.

3.7.97 CODE "TS" TILT STEERING

When Code TS is specified, a tilt steering wheel shall be provided.

3.7.98 CODE “TTP” TRAILER TOW PACKAGE

When Code TTP is specified, a trailer tow package shall be provided.

3.7.99 CODE “TTPE” TRAILER TOW PACKAGE

When Code TTPE is specified, a trailer tow package, including coupler and wiring shall be provided. Two (2) couplers and air lines for trailer brakes shall be provided. 24V 15-pin and 12V 13-pin electrical sockets shall be provided. Tractors shall be equipped with the 5th wheel coupler with a minimum height of the deck plate at 1100mm.

3.7.100 CODE “VCB1” VIDEO CAMERA BACKUP

When code VCB1 is specified, video camera backup shall be provided.

3.7.101 CODE “VOL” 24 VOLT TRAILER SYSTEM

When code VOL is specified, an auxiliary 24-volt system, with a trailer receptacle assembly, shall be provided. A trailer receptacle, conforming to Military Standard (MS) 75021-2, with cover assembly, shall be provided in an accessible location on the rear end of the vehicle. A 12-conductor truck tractor cable, not less than 3048 mm long with both ends of cable equipped with connectors conforming to MS 75020-1 and MS 75020-2, shall be furnished. The cable assembly shall be stowed in the vehicle. The 24-volt, service lighting circuit shall be connected through the appropriate lighting controls to terminals B, D, E, J and L of MS 75021-2. A pogo stick type hose tender shall be provided behind the cab to accommodate and secure the 24-volt cable.

3.7.102 CODE “VU” VINYL INTERIOR

When Code VU is specified, front and rear vinyl interior shall be provided.

3.7.103 CODE “WARB” WARRANTY COVERAGE

When code WARB is specified, OEM standard commercial hybrid propulsion battery warranty shall be provided. This coverage shall be exclusive of accumulated drive away distance, whichever occurs first.

3.7.104 CODE “WARC” WARRANTY COVERAGE

When code WARC is specified, OEM standard commercial corrosion warranty shall be provided. This coverage shall be exclusive of accumulated drive away distance, whichever occurs first.

3.7.105 CODE “WARP” WARRANTY COVERAGE

When code WARP is specified, OEM standard commercial power-train warranty shall be provided. This coverage shall be exclusive of accumulated drive away distance, whichever occurs first.

3.7.106 CODE “WARR” WARRANTY COVERAGE

When code WARR is specified, OEM s whole vehicle (bumper-to-bumper) warranty shall be provided for 2 years / unlimited kilometers. This coverage shall be exclusive of accumulated drive away distance, whichever occurs first.

3.7.107 CODE “WD” CARGO DOOR WINDOWS

When Code WD is specified, a right side sliding door with windows shall be provided.\

3.7.108 CODE “WR” INCREASED GVWR

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

3.7.109 RESERVED

3.7.110 RESERVED

3.7.111 CODE “YD” DIESEL ENGINE

When code YD is specified, a diesel engine shall be provided.

3.7.112 CODE “ESSE” ENERGY STORAGE SYSTEM EXTENDED RANGE

When code ESSE is specified, an extended range energy storage system shall be provided.

3.7.113 CODES “OBD1 TO OBD9 ” ON BOARD DIAGNOSTIC CONNECTOR

The OEM shall indicate the standard port type furnished on each individual standard item offered.

The OBD port shall be identified from the available choices listed below:

OBD1	SAE J1962 Type A
OBD2	SAE J1962 Type B
OBD3	SAE J1939
OBD4	EOBD (Europe)
OBD5	JOBD (Japan)
OBD6	Other Industry Standard
OBD7	RESERVED
OBD8	RESERVED
OBD9	No OBD Port

An entry is required for each port type.

If OBD6 is selected, OEM SHALL enter a clarification identifying the specific port

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 OWNER / OPERATOR MANUAL

The contractor shall furnish warranty information for the vehicle and any special equipment provided with, or as a part of, the vehicle.

The manuals shall include as a minimum the vehicle operator's manual, vehicle maintenance manual, and special equipment manual. Manuals shall be in English. The information may be provided in print, on electronic media, or it may be web based. Supplemental instructions shall be provided if the information is web based.

3.8.3 PREDELIVERY INSPECTION AND SERVICING

Prior to the acceptance of the vehicle(s), the contractor, shall perform final pre-delivery inspection. This inspection shall include the pre-delivery servicing, lubricating, adjustments, appearance cleaning, and everything necessary to make ready to use and operate the vehicle and the provided contracted equipment. The pre-delivery servicing shall be performed in accordance with the equipment and OEM'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.

3.8.4 WARRANTY

3.8.4.1 BASIC COMPREHENSIVE WARRANTY COVERAGE (WARR)

The contractor shall provide the OEM's basic whole vehicle warranty. The minimum length of the warranty period shall be for 2 years or unlimited kilometers and shall cover the entire vehicle (bumper to bumper). Some components will have additional warranties. Specific warranty terms and conditions are available from the manufacturer.

3.8.4.2 BASIC CORROSION AND POWERTRAIN WARRANTY COVERAGE (WARC + WARP)

The OEM's standard corrosion and power train coverage shall be identified.

3.8.4.3 EMISSION CONTROL SYSTEM

The contractor shall provide the OEM emission control system warranty, which shall conform to the most current EC regulations.

3.8.4.4 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 distance including any pro rata arrangements, or the contractor generally extends to their commercial customers a greater or extended warranty coverage, the Government shall receive corresponding warranty benefits.

3.8.4.5 USE OUTSIDE EUROPE

When vehicles are used outside Europe, 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 initial vehicle delivery location or a port of embarkation in Japan designated by the Government. The contractor shall not be required to bear the cost of labor involved in correcting defects in vehicles operated outside Japan.

3.8.5 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 Body Builders Book.

C. Defective components shall not be provided. Parts, equipment, and assemblies that have been repaired or modified to overcome deficiencies shall not be provided without the approval of the purchaser. Component parts and units shall be manufactured to definite standard dimensions with proper fits, clearances, and uniformity. 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, and joints.
2. Painted surfaces that are not smooth and uniform and virtually free from Grit, seeds, orange peel, fish eyes, streaks, running, sagging, wrinkles, pin holes, craters in paint, failure to meet minimum thickness requirements and non-uniformity of specified color.
3. Body panels or components that are uneven, unsealed, or contain cracks and dents.
4. 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.
5. Improperly fabricated and routed wiring or harness.
6. Improperly supported or secured hoses, wires, wiring harnesses, mechanical controls, etc.
7. Interference of chassis components, body parts, doors, etc.
8. Leaks of any gas, vacuum, or fluid lines (air conditioning, coolant, oil, etc.).
9. Noise, panel vibrations, etc.
10. Inappropriate or incorrect use of hardware, fasteners, components, or methods of construction.
11. Incomplete or improper welding, riveting, or bolting.
12. Lack of uniformity and symmetry where applicable.

3.8.6 STATEMENT OF ORIGIN OR BILL OF SALE

The manufacturer's Statement of Origin and Bill of Sale showing the applicable purchase order number for each vehicle procured shall be provided. The document shall be forwarded to the Consignee Mailing Address shown on the MVDO prior to shipping the vehicle. The consignee is responsible for obtaining the vehicle title.

4. QUALITY ASSURANCE PROVISIONS

4.1 RESPONSIBILITY FOR INSPECTION

Unless otherwise specified in the contract or delivery order, the contractor is responsible for the performance of all inspection requirements specified herein. The contractor may use their 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 inspections deemed necessary to assure that supplies and services conform to prescribed requirements.

4.2 CLASSIFICATION OF INSPECTIONS

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

- (a) Source inspection
- (b) Destination examination

4.3 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 OEM's factory or assembly plant to determine compliance with the contract requirements.

4.4 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.

4.5 OPERATIONAL CHECK

Operational checks shall cover all controls, systems, and devices, doors, windows, accessories, and road testing of the completed vehicle. Vehicle shall be driven at various speeds, brakes tested for dependability, checked for rattles, squeaks, and compliance to section 3 requirements.

4.6 HEAVY VEHICLE WEIGHT

The first production vehicle shall be weighed to determine curb weight and the distribution of the curb weight on the front and rear axles. The imposed loading on the front and rear axles will be computed using the curb weight, the occupants at 80kg each, and the remaining payload, uniformly distributed over the vehicle load area, to determine if the GVWR is adequate. Calculated imposed loads on the front and rear axles will be utilized to ascertain that the GAWR is adequate.

4.7 PASSENGER BUS WEIGHT

The first production bus shall be weighed to determine curb weight and the distribution of the curb weight on the front and rear axles. The imposed loading on the front and rear axles will be computed using the curb weight, the occupants at 80kg each, and the remaining payload, uniformly distributed over the bus load area, to determine if the Gross Vehicle Weight Rating (GVWR) is adequate. Calculated imposed loads on the front and rear axles will be utilized to ascertain that the Gross Axle Weight Ratings (GAWR) are adequate.

4.8 GOVERNMENT VERIFICATION

Quality assurance operations performed by the contractor will be 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.

4.9 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 shall be filled to at least the quarter full mark on the fuel gauge. GSA may reject the vehicle at delivery destination if the required fuel level is not provided.

6. NOTES

6.1 ORDERING DATA

These requirements reflect information on commercially available vehicles which have been segregated into classes to provide for competitive acquisition.

The following codes are used to identify the availability of options in this requirement:

- a) S= Standard
- b) SA= Stand Alone
- c) PKG= Package (includes, requires or excludes other options)
- d) N/A= Not Available

6.2 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 distance:

- 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.