

STATE OF SOUTH CAROLINA – STANDARDIZED VEHICLE SPECIFICATIONS

(Revised 5/1/2024)

Introduction:

The following specifications are applicable if they are listed as “Factory Installed Items” or “Option Equipment”. If they are not specifically requested by the Using Governmental Unit (UGU) in their purchase order, they do not apply.

The individual vehicle needs of the UGU takes precedence over the standardized vehicle spec.

Important Notice:

Contractors should review purchase orders carefully for items such as drawbar, pin, clip and shank configuration, as well as anything else needing further description for the order, as provided in the contract documents. They should notify the ordering UGU when needed information is missing. This office will require delivery of all specified items unless the UGU provides specific notice of relief from same in writing.

<u>Specification Name</u>	<u>Description</u>
Colors – Exterior	<p>The cost for all factory-standard “no-charge” paints and factory-standard paint palette colors for additional charges, shall all be factored into the vehicle price as contracted.</p> <ul style="list-style-type: none">• The State will not pay any additional color charges, unless a non-standard/premium color is requested by the purchasing agency.• The colors white, black, gray and silver are all required colors for state contract pricing.
Daytime Running Lights	<p>If standard equipment, daytime running lights are to be made inoperable prior to delivery of vehicles purchased by and for law enforcement entities.</p>
Engines - Diesel	<p>For Diesel-powered vehicles and equipment, fuel system components and Diesel engines shall be compatible with B20 bio-diesel blends, minimum.</p>
Engines – Gasoline/Unleaded/E10	<p>For gasoline-powered vehicles and equipment, fuel system components and gasoline engines shall be compatible with E10 ethanol blends, minimum. These engines are to perform as follows:</p> <ul style="list-style-type: none">• No noticeable degradation in vehicle drivability;• Minimal impact on vehicle operating efficiency (defined to be no more than 10% decrease in fuel economy);• Maintenance sensors and warning systems are to display normally (i.e. use of E10 is not to cause the check engine light to illuminate). <p>NOTICE: The State of South Carolina has transitioned to the E10 Unleaded Fuel Blend. The fuel contracts reflect the same.</p>
Floor Mats	<p>Unless stated otherwise, the following applies:</p> <ul style="list-style-type: none">• In vehicles with <u>carpeted</u> flooring, the manufacturer’s vehicle-specific floor mats are to be supplied for all major seating points of the vehicle.

	<ul style="list-style-type: none"> • If a manufacturer is unable to supply floor mats for carpeted vehicles (i.e. due to specific vehicle packages), equivalent (in quality and fit) aftermarket mats must be provided for all major seating points. • In vehicles with <u>vinyl or heavy-duty rubber flooring</u>, floor mats are not to be provided, and may not be requested by the ordering governmental entity. <p>NOTICE: Should an individual vehicle's specifications with carpeted interior request rubber or vinyl floor mats, those mats will be of a high quality, heavy duty construction.</p>
<p>Four-wheel Drive (4x4) & All-Wheel Drive (AWD)</p>	<p>4x4 Definition: The State of South Carolina recognizes the definition of a 4x4 (four-wheel drive)-equipped vehicle as follows:</p> <ul style="list-style-type: none"> • The vehicle is primarily rear-wheel drive, and equipped with locking differentials, low-range gearing, and is controlled by transfer case. • Power distribution is not distributed/vectored alternately between wheels by the vehicle computer. • The 4x4 system can be selected for 4x2/rear wheel drive, low, and high settings on part-time 4x4 vehicles (either by lever or electronic selection). • Full-time 4x4 vehicles do not have computer-controlled power vectoring to the wheels but may allow for low and high range selection. <p>4x4 Package: For vehicles equipped with 4x4 as defined above, the State requires the following to be provided on said vehicle:</p> <ul style="list-style-type: none"> ➤ Transfer case with auto locking hubs (operator may lock hubs without leaving the cab). ➤ Factory installed protection for fuel cell and transfer case. Protection must be adequate to prevent puncture to either system. ➤ Locking or limited slip differential or electronic traction control. ➤ Suspension – all changes recommended by the manufacturer for 4x4 operation to be provided and completed. ➤ All-terrain tires <p>All-Wheel Drive (AWD) Definition: The State of South Carolina recognizes the definition of an AWD-equipped vehicle as follows:</p> <ul style="list-style-type: none"> • The vehicle computer controls the amount and timing of power distribution/vectoring to each of the wheels. • The driver does not have the ability to eliminate the computer's control of power distribution (variable mode options of an AWD system does not classify a vehicle as 4x4 instead of AWD). • The vehicle is typically always readily engaged in an All-Wheel Drive power distribution, whether or not the computer has selected all wheels to receive power at any given moment. <p>AWD Package: The State requires AWD vehicles to be fully equipped with all warranty-necessary suspension and protective devices as defined by the manufacturer.</p> <p>NOTICE: The State of South Carolina does not consider AWD to be equivalent to 4x4. Therefore, AWD will not be accepted as a substitute for 4x4. Refer to individual vehicle purchase orders to determine if a vehicle must be either 4x4 or AWD, or if either option is acceptable for the individual purchase order.</p>

Head Restraints	<p>All outboard seating positions shall have factory installed head restraints via head rests or high back seats. The head restraints shall meet all requirements of US Department of Transportation, National Highway Traffic Safety Administration, and Federal Motor Vehicle Standards.</p> <p>NOTICE: If head restraints are not available, the contractor shall provide each ordering UGU notification from the manufacturer verifying that head restraints are not available. If head restraints are available from the manufacturer as an optional item, they must be included.</p>
Keys	<p>Three (3) ignition-capable (and programmed) keys and two (2) fobs/remotes are to be provided for each vehicle delivered.</p> <ul style="list-style-type: none"> • The two (2) fobs/remotes are only required if the vehicle is equipped with power locks. • For manufacturers whose keys are an integrated key/fob, three (3) fully functional (ignition-capable) integrated key/fobs are required. • Cost for the key and fob sets are to be included in the base price.
Pickup Box Removal and Lamp Detection	<p>Trucks provided with a pickup box removal shall have lamp detection turned "Off" to allow exterior turn signal lights and interior audible and/or visual turn signal indicators to work properly.</p>
Privacy Glass -- Extended & Crew Cab Pickups, Cargo & Passenger Vans, Utility Vehicles	<p>If "Privacy Glass" is required as part of the purchase order for a qualifying vehicle class as defined below, the State of South Carolina defines privacy glass and its applicable vehicular location as:</p> <ul style="list-style-type: none"> • Deep tint not to exceed factory standard option shading: • Only applicable to glass aft of the B pillar for the specifically defined vehicle classes within this spec. <p><u>Qualifying Vehicles:</u></p> <ul style="list-style-type: none"> • Extended and crew cab pickups • Cargo and passenger vans • Utility Vehicles – which are specifically on state contracts defined for SUVs • Crossovers • State contract law enforcement vehicles <p>NOTICE:</p> <ul style="list-style-type: none"> • Sedans, exclusive of law enforcement contracts, do not qualify for privacy glass.
Privacy Glass (Law Enforcement & DNR) Vehicles	<p>If "Privacy Glass" is required as part of a qualifying vehicle class as defined below, the State of South Carolina defines privacy glass and its applicable vehicular location as:</p> <ul style="list-style-type: none"> • Deep tint not to exceed factory standard option shading

	<ul style="list-style-type: none"> Only applicable to glass aft of the B pillar for the specifically defined vehicle classes within this spec, excluding rear windshield Deep Tint not to recede minimum 27% allowance of light for glass fore the B pillar of the specifically defined vehicle, excluding windshield. <p><u>Qualifying Vehicles:</u></p> <ul style="list-style-type: none"> State contract law enforcement vehicles
Radio Noise Suppression	<p>Governmental fleet vehicles may have an approximate 150-watt mobile (two-way) radio installed, operating on the frequencies of 44-47 MHz as designated by the FCC (CFR 47, Part 90).</p> <p>To anticipate possible installation of such radio equipment, the vehicle shall be fully compatible with the above radio installation and all vehicle components and equipment shall not interfere with the operation (transmitting or receiving) of the mobile radio.</p>
Rear View Camera Systems (All vehicles under 10,000 GVWR)	<p>Vendor shall provide an installed rear view camera system complete with camera, cabling, and hardware meeting requirements of Federal Motor Vehicle Safety Standards (FMVSS) 111 Standard for rear vehicle visibility.</p> <p>The rearview camera system shall provide a compliant image from a factory standard screen. If available and not already standard, the ability to upgrade to an in-dash monitor shall be allowed when requested by the purchasing agency.</p>
Step Bar – Entry/Egress	<p><u>Definitions:</u></p> <ul style="list-style-type: none"> Door threshold – point of the vehicle where the driver & passengers place their foot upon entering the cabin. Step Bar – shall be a 3” diameter bully single, extended, or double step bar, or equivalent. <i>The bar must have a minimum weight capacity of 250 lbs. and must be of metal construction.</i> Running board – an elongated platform step that measures no less than six inches deep and must be installed to allow entry and egress from all side doors (including driver’s as measures dictate). <i>The board must have a minimum weight capacity of 250lbs.</i> <p><u>Method of Measurement:</u> From level ground (not including curbing), measure the vertical clearance from the ground to the threshold for each passenger and driver entry door as defined above.</p> <p><u>Spec for Vans (including Cutaways):</u></p> <ul style="list-style-type: none"> Running boards, as defined above, are required <u>at all doors where</u> the ground-to-threshold clearance exceeds 19”. The astern rear door is exempt from this spec. <i>Please be sure to measure all entry points, particularly on redesigned or new models, to prevent rejection at time of delivery and inspection. <u>Note that tire & wheel changes could affect measurements – be sure to check for such changes on new model years.</u></i> <p><u>Spec for Pickups & Large Trucks:</u></p>

	<ul style="list-style-type: none"> • <u>Step bars</u>, as defined above, are required <u>at all doors where</u> the ground-to-threshold clearance exceeds 21". • For vehicles with extended, quad, or crew cabs (no matter the manufacturer's marketing description), an extended length or double step bar shall be installed that services the entry and egress for all doors. • <i>Please be sure to measure all entry points, particularly on redesigned or new models, to prevent rejection at time of delivery and inspection. <u>Note that tire & wheel changes could affect measurements – be sure to check for such changes on new model years.</u></i> <p><u>Spec for Utilities (SUV & Crossover):</u></p> <ul style="list-style-type: none"> • <u>Running boards</u>, as defined above, are required when any passenger (including driver) door's ground-to-threshold clearance on a utility vehicle exceeds 21". • The running board shall cover the length of the rocker panel from the forward point of the front doors, to the rearward point of the rear passenger doors. • The astern rear door/hatch is exempt from this spec. • <i>Please be sure to measure all entry points, particularly on redesigned or new models, to prevent rejection at time of delivery and inspection. <u>Note that tire & wheel changes could affect measurements – be sure to check for such changes on new model years.</u></i> <p>NOTICES:</p> <ul style="list-style-type: none"> • In all cases, overall manufacturer-desired ground clearances must be maintained. • All step bars and running boards shall be the type that are customarily manufactured and marked to be used as steps (not décor). • Step bars must be black powder coated and certified for a minimum weight capacity of 250lbs. • Running boards should be black in color. Molded plastic running boards (OEM or aftermarket) are acceptable, so long as they are certified to a minimum weight capacity of 250lbs. • Steps are not required for astern rear doors/hatches on vans or utilities.
<p>Tires</p>	<p>Tires are to be mounted with black walls turned to the outside.</p> <ul style="list-style-type: none"> • All tire walls with contrasting colors such as white, red, raised white lettering, etc. are to be turned and mounted to the inside. • The ordering UGU may reject delivery if black walls are not turned to the outside. <p><u>Spare Tires:</u></p> <ul style="list-style-type: none"> • Purchase orders indicating the requirement of a spare tire (full or temporary) shall also be supplied with a vehicle manufacturer-approved jack and lug wrench. • Purchase Orders indicating <u>full</u> size spare tires shall be equipped with spares that are <u>equivalent</u> to the vehicle's installed tires as delivered to the State.

	<ul style="list-style-type: none"> • <u>Law Enforcement Vehicles</u>: <u>ALL</u> Law Enforcement vehicles shall be equipped with full size spares that are <u>identical</u> to the installed tires as delivered to the State.
Tow Package	<p><u>State of South Carolina Tow Package:</u> Factory installed hitch plus all necessary components to match or exceed the maximum rated towing capacity of the vehicle are to be included.</p> <ul style="list-style-type: none"> • Wiring will be completed to include all necessary components to utilize both 4-way and 7-way wiring harnesses. • Standard configuration for drawbar, ball, pin, and clip: <ul style="list-style-type: none"> ➤ Standard is the DNR specification below, unless otherwise stated by the ordering UGU. ➤ Department of Natural Resources (DNR) configuration is: drawbar with 2" drop, pin, clip, and 2" ball w/ 1" solid shank. <p>NOTICES:</p> <ul style="list-style-type: none"> • This spec applies when: <ul style="list-style-type: none"> ➤ A UGU specifically requests the tow package as part of the vehicle order, or ➤ The vehicle requested on the purchase order includes the tow package as required/standard equipment. • If the drawbar, pin, clip, and shank configuration is inadvertently omitted from a purchase order (i.e. "tow package" was the only description provided on the PO), it does not relieve the contractor of the requirement to provide the standard configuration above, or as outlined in the individual vehicle specifications. • If a vendor's vehicle is provided factory-equipped (factory standard) with the hitch assembly, the vendor does <u>not</u> have to supply the standard configuration of the State of South Carolina tow package (wiring, drawbar & ball) when: <ul style="list-style-type: none"> ➤ The ordering UGU has not requested the tow package as part of the purchase.
Winch- Steel Cable	<p>The standard specification winch is as follows:</p> <ul style="list-style-type: none"> • Warn model Zeon 12 (89120) • Electric • Front Mount • 12,000lb. capacity, with roller fairlead (5742) • 80' steel wire cable • Grille guard with center horizontal bars, winch carrier, mounting bracket <p>NOTICES:</p> <ul style="list-style-type: none"> • The mounting bracket must not extend below the height of the front bumper. • The winch package may be installed by the contractor/factory, or an approved up-fitter.
Winch- Synthetic Rope	<p>The standard specification winch is as follows:</p> <ul style="list-style-type: none"> • Warn Model Zeon 12 (89120)

	<ul style="list-style-type: none"> • Electric • Front Mount • 12,000 lb. capacity, with min 1" polished aluminum hawse fairlead used with winches 6,000 lbs. or greater (87914) • 100'Spydura Synthetic Winch Rope (102558) • Federal Signal PBX Series Push Bumper e-coated/black powder coated with heavy duty 4-guage steel uprights or other similar grille guard with center horizontal bars if not compatible for installation (pre-drilled for adding PIT bars, lights, and speakers) with center horizontal bar, winch carrier and mounting bracket <p>NOTICES:</p> <ul style="list-style-type: none"> • The mounting bracket must not extend below the height of the front bumper. • The winch package may be installed by the contractor/factory, or an approved up-fitter.
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End of Standard State Specifications.

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