

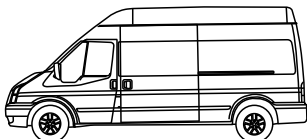


DO NOT DESTROY: THIS MANUAL IS REQUIRED BY
LAW. KEEP UNTIL THE VEHICLE IS COMPLETED
BY THE FINAL STAGE MANUFACTURER.

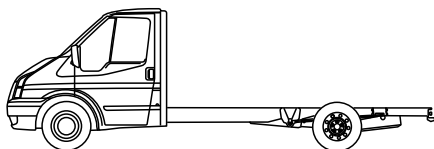
2015 TRANSIT INCOMPLETE VEHICLE MANUAL

Incomplete Vehicle Types For This Manual

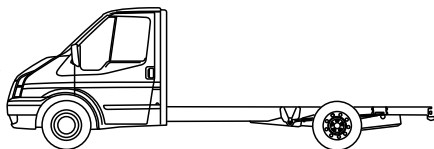
INCOMPLETE
TRANSIT
VANS &
WAGONS



TRANSIT
CHASSIS
CAB



TRANSIT
CUTAWAY



U.S. & CANADIAN MOTOR VEHICLE SAFETY STANDARDS

(Application By Vehicle Type)

Standard Number	Title of Standard	Vehicle Type			Equipment (1)
		Bus (Not School Bus)	Truck (Not Walk-In Van)	MPV	
101	Controls and Displays	X	X	X	
102	Transmission Shift Lever Sequence, Starter Interlock and Transmission Braking Effect	X	X	X	
103	Windshield Defrosting and Defogging Systems	X	X	X	
104	Windshield Wiping and Washing Systems	X	X	X	
105	Hydraulic and Electric Brake Systems	X	X	X	
106	Brake Hoses	X	X	X	X
108	Lamps, Reflective Devices and Associated Equipment	X	X	X	X
108.1	Alternative Requirement for Headlamps (Canada only)	X	X	X	X
110	Tire Selection and Rims and Motor Home/Recreation Vehicle Trailer Load Carrying Capacity Information for Motor Vehicles with a GVWR of 4,536 Kilograms (10,000 Pounds) or Less (U.S. only)	X(2)	X(2)	X(2)	X(2)
111	Rearview Mirrors	X	X	X	
113	Hood Latch System	X	X	X	
114	Theft Protection and Rollaway Prevention		X(2)	X(2)	
115	Vehicle Identification Number (Canada only)	X	X	X	
116	Motor Vehicle Brake Fluids	X	X	X	X
118	Power-Operated Window, Partition, and Roof Panel Systems		X(2)	X(2)	
119 (8)	New Pneumatic Tires for Motor Vehicles with a GVWR of More than 4,536 Kilograms (10,000 pounds) and Motorcycles				X(9)
120	Tire Selection and Rims and Motor Home / Recreation Vehicle Trailer Load Carrying Capacity Information for Motor Vehicles with a GVWR of More Than 4,356 Kilograms (10,000 Pounds)	X(9)	X(9)	X(9)	X(9)
124	Accelerator Control Systems	X	X	X	
126	Electronic Stability Control Systems	X(2)	X(2)	X(2)	X(2)
131	School Bus Pedestrian Safety Devices (except Multifunction School Activity Bus)				
138	Tire Pressure Monitoring Systems	X(2)	X(2)	X(2)	X(2)
139	New Pneumatic Radial Tires for Light Vehicles				X(2)
201	Occupant Protection in Interior Impact	X(2)(7)	X(2)	X(2)	
202	Head Restraints	X(2)	X(2)	X(2)	
203	Impact Protection for the Driver from the Steering Control System	X(2)	X(2)	X(2)	
204	Steering Control Rearward Displacement	X(3)	X(3)	X(3)	
205	Glazing Materials	X	X	X	X
206	Door Locks and Door Retention Components		X	X	
207	Seating System	X	X	X	
208	Occupant Crash Protection	X(4)	X(4)	X(4)	X
209	Seat Belt Assemblies	X	X	X	X
210	Seat Belt Assembly Anchorages	X	X	X	
210.1	User-Ready Tether Anchorages for Restraint Systems and Booster Seats (Canada only)	X(6)	X(6)	X(6)	
210.2	Lower Universal Anchorage Systems for Restraint Systems and Booster Seats (Canada only)	X(6)	X(6)	X(6)	
212	Windshield Mounting	X(2)	X(2)	X(2)	
213	Child Restraint Systems (U.S. only)	X	X	X	X
213.4	Built-In Restraint Systems and Built-In Booster Seats (Canada only)	X	X	X	
214	Side Impact Protection	X(2)(5)	X(2)(5)	X(2)(5)	
217	Bus Emergency Exits and Window Retention and Release	X			
219	Windshield Zone Intrusion	X(2)	X(2)	X(2)	

(Continued on Page 3)

U.S. & CANADIAN MOTOR VEHICLE SAFETY STANDARDS

(Application By Vehicle Type) (Cont'd)

Standard Number	Title of Standard	Vehicle Type			Equipment (1)
		Bus (Not School Bus)	Truck (Not Walk-In Van)	MPV	
220	School Bus Rollover Protection				
221	School Bus Body Joint Strength				
222	School Bus Passenger Seating and Crash Protection				
225	Child Restraint Anchorage Systems (U.S. only)	X(6)	X(6)	X(6)	
301	Fuel System Integrity	X(2)	X(2)	X(2)	
301.1	LPG Fuel System Integrity (Canada only)		X	X	
301.2	CNG Fuel System Integrity (Canada only)		X	X	
302	Flammability of Interior Materials	X	X	X	
303	Fuel System Integrity of Compressed Natural Gas Vehicles (U.S. only)	X(2)	X(2)	X(2)	
304	Compressed Natural Gas Fuel Container Integrity (U.S. only)	X	X	X	
305	Electric-Powered Vehicles: Electrolyte Spillage and Electrical Shock Protection	X	X	X	X
403	Platform Lift Systems for Motor Vehicles				X
404	Platform Lift Installations in Motor Vehicles	X	X	X	
PART 393.67	Parts and Accessories Necessary for Safe Operation – Liquid Fuel Tanks				X
PART 565 / 565.4	Vehicle Identification Number (VIN) Requirements (U.S. only)	X	X	X	
PART 567	Certification (Label Content & Location)	X	X	X	
1106	Noise Emissions (Canada only)	X	X	X	

(1) This column identifies Standards that have equipment/component requirements.

(2) Applicable to vehicles with a gross vehicle weight rating (GVWR) of 4536 kg [10,000 lb] or less.

(3) Applicable to vehicles with a GVWR of 4536 kg [10,000 lb] or less and an unloaded vehicle weight of 2495 kg [5500 lb] or less.

(4) Injury criteria are applicable to vehicles with a GVWR of 3856 kg [8500 lb] or less and an unloaded vehicle weight (UVW) of 2495 kg [5500 lb] or less except, in the U.S., walk-in van-type trucks and vehicles designed to be sold exclusively to the U.S. Postal Service and, in Canada, vehicles manufactured for operation by persons with disabilities.

(5) Dynamic Performance Requirements apply to MPVs, trucks and buses with a GVWR of 2722 kg [6000 lb] or less.

(6) Applicable to vehicles with GVWR of 3856 kg [8500 lb] or less (and Canada only: UVW of 2495 kg [5500 lb] or less), and to buses, including school bus, with a GVWR of 4536 kg [10,000 lb] or less.

(7) The requirements of section S6 of Standard Number 201 (United States) do not apply to buses with a GVWR greater than 3860 kg [8510 lb] and walk-in van type trucks.

(8) Canadian 119 requirements are found in the Motor Vehicle Tire Safety Standards.

(9) Applicable to vehicles with a GVWR greater than 4536 kg [10,000 lb] (U.S. only).

INTRODUCTION

Information in this manual is furnished pursuant to United States and Canadian safety regulations or, in some cases where the information is not required by regulation, is furnished for the convenience of intermediate or final stage vehicle manufacturers. Incomplete vehicles manufactured for sale or importation into the U.S., are specially equipped for the United States. The descriptions and statements contained in the manual relate only to motor vehicle safety standards issued under the National Traffic and Motor Vehicle Safety Act of 1966 as amended.

An incomplete vehicle manufactured for sale or importation into Canada is specially equipped for Canada. This vehicle conforms to the applicable Canadian Motor Vehicle Safety Standards (CMVSS) on the date of manufacture printed on the cover of this manual. Requirements unique to vehicles for use in Canada are identified in the "Statements of Conformity" and the "Canadian Vehicles" sections of this manual.

The "Emission Certification Information" section of this manual contains information regarding conformity to exhaust emission regulations of the United States, Canada, and the State of California and fuel economy regulations of the United States.

This manual should not be relied upon with respect to compliance with any regulation of the Federal Highway Administration or regulations issued pursuant to the Occupational Safety and Health Act (OSHA) or any other Federal, state, or local regulations governing the performance or construction of motor vehicles (except for those requirements shown in the "Emissions Certification Information" section of this manual under the headings "Unleaded Gasoline Label," "Warranty and Maintenance," and "Emission Control Information Label"). It is the responsibility of the final stage manufacturer to determine applicability and comply with any Federal, state, or local requirements not detailed in this manual.

IMPORTANT:

UNITED STATES VEHICLES

Ford Motor Company has endeavored, whenever possible, to state the specific conditions under which an incomplete vehicle may be completed to conform to each applicable Federal Motor Vehicle Safety Standard. These specific statements are intended to aid subsequent stage manufacturers in avoiding instances of inadvertent noncompliance to particular standards.

Note that the final responsibility for the compliance of the completed vehicle rests with the final stage manufacturer who is required by law to certify, as prescribed by Title 49, Code of Federal Regulations, Part 567.5, that the completed vehicle conforms to all applicable Federal Motor Vehicle Safety Standards and all applicable federal, state and California emission/noise standards.

Ford Motor Company does not make any representation as to the appropriateness of modifications for any particular application other than expressly stated herein. Intermediate and final stage manufacturers must exercise proper engineering judgment to determine if a modification is appropriate for their specific application.

IMPORTANT:

UNITED STATES AND CANADIAN VEHICLES

Alterations to an incomplete vehicle by someone other than Ford Motor Company, or damage in transit, may affect compliance statements that are furnished in this manual, or representations that are printed on the label that may be affixed to a vehicle.

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DEFINITIONS

The following definitions are from Title 49, Code of Federal Regulations (49CFR), Parts 567.3, 568.3 and 571.3 where noted. Canadian definitions are from Canadian Motor Vehicle Safety Regulations (CMVSR), Section 2(1), and are in italics. Ford Motor Company definitions are for the purpose of this manual only. Some terms are followed by an abbreviation that is used throughout this manual.

Ambulance – is a vehicle for emergency medical care which provides: A driver's compartment; a patient compartment to accommodate an Emergency Medical Technician (EMT), Paramedic, and two litter patients (one patient on the primary cot and secondary patient on folding litter located on the squad bench) so positioned that the primary patient can be given intensive life-support during transit; equipment and supplies for emergency care at the scene as well as during transport; two-way radio communication; and, when necessary, equipment for light rescue/extrication procedures. The Ambulance shall be designed and constructed to afford safety, comfort, and avoid aggravation of the patient's injury or illness. (From Federal Specification KKK-A-1822-F). Ford Motor Company also includes within its definition of ambulance any vehicle that is used for transporting life-support equipment, for rescue operations, or for non-emergency patient transfer if the engine of the vehicle is equipped with a "throttle kicker" device, which enables an operator to increase engine speed over normal idle speed when the vehicle is not moving. (Ford Motor Company)

B-Pillar – is the vehicle body structure located directly rearward of each front door. This structure will include the outer panel, all inner panels or reinforcements which support the door opening, the door latching system, and/or the roof structure. (Ford Motor Company)

Basic (Stripped) Chassis – an incomplete vehicle, without occupant compartment, that requires the addition of an occupant compartment and cargo-carrying, work performing, or load-bearing components to perform its intended function. (Ford Motor Company)

Bus – a motor vehicle with motive power, except a trailer, designed for carrying more than 10 persons. (49CFR571.3)

Bus (Canada) – *a vehicle having a designated seating capacity of more than 10, but does not include a trailer or a vehicle imported temporarily for special purposes. (autobus)*

Chassis Cab – an incomplete vehicle, with completed occupant compartment, that requires only the addition of cargo-carrying, work performing, or load-bearing components to perform its intended functions. (49CFR567.3)

Completed Vehicle – a vehicle that requires no further manufacturing operations to perform its intended function. (49CFR567.3)

Critical Control Item – is a component or procedure which may affect compliance with a Federal regulation or, which could directly affect the safe operation of the vehicle. The identifying symbol is an inverted delta (∇). (Ford Motor Company)

Cutaway Chassis – an incomplete vehicle that has the back of the cab cut out for the intended installation of a structure that permits access from the driver's area to the back of the completed vehicle. (Ford Motor Company)

Cutaway Chassis (Canada) – *an incomplete vehicle that has the back of the cab cut out for the intended installation of a structure that permits access from the driver's area to the back of the vehicle. (châssis tronqué)*

Designated Seating Position – means a seat location that has a seating surface width, as described in §571.10(c) of this part, of at least 330 mm (13 inches). The number of designated seating positions at a seat location is determined according to the procedure set forth in §571.10(b) of this part. However, for trucks and multipurpose passenger vehicles with a gross vehicle weight rating greater than 10,000 lbs, police vehicles as defined in S7 of FMVSS 208, firefighting vehicles, ambulances, and motor homes, a seating location that is labeled in accordance with S4.4 of FMVSS 207 will not be considered a designated seating position. For the sole purpose of determining the classification of any vehicle sold or introduced into interstate commerce for purposes that include carrying students to and from school or related events, any location in such a vehicle intended for securement of an occupied wheelchair during vehicle operation is regarded as four designated seating positions. (49CFR571.3)

Designated Seating Position (Canada) – *means a location in a vehicle that is likely to be used as a seating position and that has a seating surface width of at least 330 mm; (place assise désignée)*

Final-Stage Manufacturer – a person who [company that (CMVSR)] performs such manufacturing operations on an incomplete vehicle that it becomes a completed vehicle. (49CFR567.3)

Gross Axle Weight Rating (GAWR) – the value specified by the vehicle manufacturer as the load-carrying capacity of a single axle system, as measured at the tire-ground interfaces. (49CFR571.3)

Gross Combination Weight Rating (GCWR) – the value specified by the manufacturer as the loaded weight of a combination vehicle. (49CFR571.3)

Gross Vehicle Weight Rating (GVWR) – the value specified by the manufacturer as the loaded weight of a single vehicle. (49CFR571.3)

H-Point – the mechanically hinged hip point of a manikin which simulates the actual pivot center of the human torso and thigh, described in SAE Recommended Practice J826, "Manikins For Use in Defining Vehicle Seating Accommodations," November 1962. (49CFR571.3)

H-point (Canada) – *the mechanically hinged hip point of a manikin that simulates the actual pivot centre of the human torso and thigh, described in SAE Standard J826 APR80, Devices for Use in Defining and Measuring Vehicle Seating Accommodation. (point H)*

Incomplete Vehicle – an assemblage consisting, at a minimum, of chassis (including the frame) structure, power train, steering system, suspension system, and braking system, in the state that those systems are to be part of the completed vehicle, but requires further manufacturing operations to become a completed vehicle. (49CFR567.3)

(Cont'd next page)

(Continued)

Incomplete Vehicle (Canada) – a vehicle (a) other than a vehicle imported temporarily for special purposes, that is capable of being driven and that consists, at a minimum, of a chassis structure, power train, steering system, suspension system and braking system in the state in which those systems are to be part of the completed vehicle, but requires further manufacturing operations to become a completed vehicle or (b) that is an incomplete trailer. (véhicule incomplet)

Incomplete Vehicle Manufacturer – a person [company that (CMVSR)] who manufactures an incomplete vehicle by assembling components none of which, taken separately, constitute an incomplete vehicle. (49CFR567.3)

Intermediate Manufacturer – a person [company (CMVSR)], other than the incomplete vehicle manufacturer or the final stage manufacturer, who [that (CMVSR)] performs manufacturing operations on a vehicle manufactured in two or more stages. (49CFR567.3)

Motor Home – a multi-purpose vehicle with motive power that is designed to provide temporary residential accommodations, as evidenced by the presence of at least four of the following facilities: cooking; refrigeration or ice box; self-contained toilet; heating and/or air conditioning [system that can function independently of the vehicle engine (CMVSR)]; a potable water supply system including a faucet and a sink; and a separate 110-125 volt electrical power supply and/or an LP gas supply. (49CFR571.3)

Multifunction School Activity Bus (MFSAB) – a school bus whose purposes do not include transporting students to and from home or school bus stops. (49CFR571.3)

Multipurpose Passenger Vehicle (MPV) – a motor vehicle with motive power, except a low-speed vehicle or trailer, designed to carry 10 persons or less which is constructed either on a truck chassis or with special features for occasional off-road operation. (49CFR571.3)

Multipurpose Passenger Vehicle (MPV) (Canada) – a vehicle having a designated seating capacity of 10 or less that is constructed either on a truck-chassis or with special features for occasional off-road operation, but does not include an air cushion vehicle, an all-terrain vehicle, a golf cart, a low-speed vehicle, a passenger car, a three-wheeled vehicle, a truck or a vehicle imported temporarily for special purposes. (véhicule de tourisme à usages multiples)

School Bus – a bus that is sold, or introduced in interstate commerce, for purposes that include carrying students to and from school or related events, but does not include a bus designed and sold for operation as a common carrier in urban transportation. (49CFR571.3)

School Bus (Canada) – a bus designed or equipped primarily to carry students to and from school. (autobus scolaire)

Seating Reference Point – the unique design H-point, as defined in SAE J1100 (June 1984), which: (a) Establishes the rearmost normal design driving or riding position of each designated seating position in a vehicle; (b) Has X, Y, and Z coordinates established relative to the designed vehicle structure; (c) Simulates the position of the pivot center of the human torso and thigh; and (d) Is the reference point employed to position the two-dimensional drafting template described in SAE J826 (May 1987). (abbreviated by Ford Motor Company)

Seating Reference Point (Canada) – the unique Design H-point, as defined in section 2.2.11.1 of SAE Recommended Practice J1100 (June 1993), that:

(a) establishes the rearmost normal design driving or riding position of each designated seating position, taking into account all modes of adjustment – horizontal, vertical and tilt – in a vehicle,

(b) has X, Y and Z coordinates, as defined in section 2.2.3 of SAE Recommended Practice J1100 (June 1993), established relative to the designed vehicle structure,

(c) simulates the position of the pivot centre of the human torso and thigh, and

(d) is the reference point employed to position the H-point template with the 95th percentile leg, as described in section 3.1 of SAE Standard J826 (June 1992), or, if that drafting template cannot be positioned, the reference point when the seat is in its rearmost adjustment position. (point de référence de position assise)

Second Unit Body (SUB) – consists of the body structure and/or all the cargo carrying, work performing, and/or load bearing components and/or equipment installed by a subsequent stage manufacturer on an incomplete vehicle, such that the incomplete vehicle becomes a completed vehicle. (Ford Motor Company)

Subsequent Stage Manufacturer – a term which means either intermediate or final stage manufacturers or both. (Ford Motor Company)

Trimmed Seat – a complete functional seat assembly including the seat pedestal, seat track, seat base frame, seat back, recliner mechanism, seat padding, all attaching hardware, and the final trim material (i.e., cloth, leather, or vinyl). (Ford Motor Company)

Truck – a motor vehicle with motive power, except a trailer, designed primarily for the transportation of property or special purpose equipment. (49CFR571.3)

Truck (Canada) – a vehicle designed primarily for the transportation of property or special-purpose equipment but does not include a competition vehicle, a crawler-mounted vehicle, a trailer, a work vehicle, a vehicle imported temporarily for special purposes or a vehicle designed for operation exclusively off-road. (camion)

Unloaded Vehicle Weight (UVW) – the weight of a vehicle with maximum capacity of all fluids necessary for operation of the vehicle, but without cargo, occupants, or accessories that are ordinarily removed from the vehicle when it is not in use. (49CFR571.3)

Unloaded Vehicle Weight (Canada) – the weight of a vehicle equipped with the containers for the fluids necessary for the operation of the vehicle filled to their maximum capacity, but without cargo or occupants. (poids du véhicule sans charge)

Untrimmed Seat – the structure including the seat pedestal, seat track, seat base frame, seat back, recliner mechanism, seat padding, and all attaching hardware required for a functional seat assembly without the final trim material (e.g., cloth, leather, or vinyl) and trim material attaching components. (Ford Motor Company)

Walk-In Van – a step entry city delivery van type vehicle that permits a person to enter the vehicle without stooping. This definition by Ford Motor Company is based on information appearing in 41 FR 54945, published December 16, 1976, and in 42 FR 34288, published July 5, 1977.

Walk-In Van (Canada) – a van type of truck in which a person having a height of 1700 mm can enter the occupant compartment in an upright position by a front door. (fourgon à accès en position debout)

GENERAL INFORMATION

Information in this section is provided pursuant to Title 49, Code of Federal Regulations, Part 568 – “Vehicles Manufactured in Two or More Stages”, and Section 6 of the Canadian Motor Vehicle Safety Regulations (CMVSR) – “Vehicles Manufactured in Stages.” Part 568 specifies that final stage manufacturers must complete vehicles in compliance with all applicable Federal Motor Vehicle Safety Standards and affix a label to each incomplete vehicle that is completed in accordance with 49CFR567.5. Section 6.6 of the CMVSR provides labeling requirements for vehicles that are to be sold in Canada.

DIRECTIONS

STATEMENTS OF CONFORMITY

The “Statements of Conformity” section of this manual lists the Federal Motor Vehicle Safety Standards in effect on the date of manufacture of this incomplete vehicle that are applicable to the type(s) of completed vehicles into which this incomplete vehicle may be manufactured. This date is shown on the label affixed to the cover of this manual. These statements, in most cases, apply to specific types of incomplete or completed vehicles and identify GVWR and UVW weight ranges.

The incomplete vehicle type is identified by the 5th, 6th, and 7th digits of the Vehicle Identification Number (VIN). The completed vehicle types to which this incomplete vehicle may appropriately be completed is printed on the label, under the heading “May Be Completed As,” that is affixed to the cover of this document. The Completed Vehicle Types chart on a following page identifies how various incomplete vehicles with an Optional Prep Packages or a Trim Code, may be completed.

Each statement of conformity is identified by a safety standard number located at the left margin. Because there may be multiple statements of conformity for each safety standard, use care to select the appropriate statement. Unique CMVSS requirements will be identified at the conclusion of the representations for a particular safety standard.

Compliance statements provided in this manual are of the three following types (49CFR568.4):

- Type I** • A statement that the vehicle, when completed, will conform to the standard if no alterations are made in identified components of the incomplete vehicle.
- Type II** • A statement of specific conditions of final manufacture under which the incomplete vehicle manufacturer specifies that the completed vehicle will conform to the standard.
- Type III** • A statement that conformity with the standard cannot be determined based upon the components supplied on the incomplete vehicle, and that the incomplete vehicle manufacturer makes no representation as to conformity with the standard.

IMPORTANT:

To rely on the compliance representations in this manual, the incomplete vehicles must be completed as one of the completed vehicle types designated on the label affixed to the cover of this manual, and must not exceed the specified GVWR, GAWRs, or the Unloaded Vehicle Weight limits when specified in this manual.

This vehicle was certified with a GVWR over 3856 kg [8500 lb]. If the GVWR is modified to less than 3856 kg [8500 lb], additional Federal and/or Canadian Motor Vehicle Safety Standards (F/CMVSS) may apply.

VEHICLE SPECIAL ORDER (VSO) VEHICLES

VSO vehicles can be identified by a six digit number with the letters VSO below the digits in the lower right corner of the Incomplete Vehicle Information Label which is affixed to the driver-door lock pillar. See the sample label on the next page.

The Statements of Conformity section of this manual includes compliance representations for certain VSO vehicles. These vehicles are identified in the Completed Vehicle Types chart on page 10. Other VSO vehicles may require additional Statements of Conformity which will be in the Supplement Section of this manual.

FORD TRUCK ASSISTANCE

Throughout this manual you will find references to information found in the *Ford Truck Body Builders Layout Book*. Additional design recommendations and specifications are also provided to assist subsequent stage manufacturers in completing incomplete vehicles.

The *Ford Truck Body Builders Layout Book* may be accessed via the web at www.fleet.ford.com/truckbbas under the “Publications” tab.

The Ford Truck Body Builder Advisory Service may be consulted regarding information contained in this manual.

- Call (877) 840-4338
- E-mail via the web at www.fleet.ford.com/truckbbas under the “Contact Us” tab

VEHICLE DESCRIPTION

INCOMPLETE VEHICLE MANUAL COVER

The cover of this manual depicts the incomplete vehicle configurations for which compliance representations are contained in this manual. Also, a label is affixed to the cover which includes the Vehicle Identification Number (VIN) for the specific vehicle to which this manual belongs. The label identifies the following information which pertains only to the vehicle with the corresponding VIN.

- The GVWR
- The front and rear GAWRs
- Tire and wheel size
- Cold tire inflation pressure (kPa/PSI)
- Completed vehicle type(s) into which the incomplete vehicle may be manufactured
- Optional prep package when the vehicle is so equipped

INCOMPLETE VEHICLE INFORMATION LABEL

All Transit incomplete vehicles manufactured by Ford Motor Company will have an Incomplete Vehicle Information Label affixed to the driver-door lock pillar. A sample of a typical label is shown below.

The 5th, 6th, and 7th positions of the Vehicle Identification Number (VIN) will identify the incomplete vehicle type. These three positions are used in the Completed Vehicle Types charts.

California Air Resources Board (CARB), requires a Vehicle Identification Number (VIN) Label having a non-contact, bar-code, reading wand capability. The bar-code directly below the VIN on the Incomplete Vehicle Information Label, when provided, will comply with this regulation. The Canadian Motor Vehicle Safety Act and Regulations require installation of an Incomplete Vehicle Information Label with the National Safety mark on it on vehicles manufactured for sale in Canada. A sample of a typical label is shown below.

OPTIONAL PREP PACKAGES

Incomplete vehicles produced by Ford Motor Company, in some instances, are equipped with an optional prep package. These include the Ambulance Prep, School Bus Prep, Motorhome Prep, Shuttle Bus Prep, Recreational Van Prep and Builders Prep packages. The Completed Vehicle Types chart on the following page will identify incomplete vehicles and the optional prep packages or trim codes that may be required by Ford Motor Company if final stage manufacturers wish to rely on the Statements of Conformity or, in some cases, preserve the Ford Motor Company new vehicle warranty.

If an incomplete vehicle is equipped with an optional prep package, both the Incomplete Vehicle Information Label affixed to the vehicle and the label on the front of this manual will identify the prep package.

DATE OF MANUFACTURE

VEHICLE TYPE (SEE CHART)

OPTIONAL PREP PACKAGE

BAR CODE V.I.N. (CALIFORNIA)

VSO VEHICLE

TYPICAL – UNITED STATES

DATE OF MANUFACTURE

VEHICLE TYPE (SEE CHART)

VSO VEHICLE

TYPICAL – CANADA

INCOMPLETE VEHICLE INFORMATION LABELS

COMPLETED VEHICLE TYPES

5TH, 6TH, 7TH VIN DIGIT	INCOMPLETE VEHICLES	COMPLETED VEHICLES			
		TRUCK	MPV (NOT- AMBULANCE)	MPV (AMBULANCE)	BUS (NOT- SCHOOL BUS)
Transit Series					
K1C, K1Y, K1Z	Incomplete Transit 150 Wagon (8550 LB) (SRW)*	X	1,5		
E1C, E1D, E1Y, E1Z, E2C, E2D, E2Y, E9Z	Incomplete Transit 150 Van (8600 LB) (SRW)*	X		2	
R1C, R1D, R1Y, R1Z, R2C, R2D, R2U, R2X, R2Y, R2Z, R3U, R3X	Incomplete Transit 250 Van (9000 LB) (SRW)*	X		2	
R5Z, R7Z	Transit 250 Chassis Cab (9000 LB) (SRW)*	X			
R5P, R7P	Transit 250 Cutaway (9000 LB) (SRW)*	X		2	
X2C, X2X, X2Y, X2Z	Incomplete Transit 350 Wagon (9000 G / 9250 D LB) (SRW)*	X	1,5		1
W2C, W2D, W2U, W2X, W2Y, W2Z, W3U, W3X	Incomplete Transit 350 Van (9500 LB) (SRW)*	X		2	
W7Z	Transit 350 Chassis Cab (9500 LB) (SRW)*	X			
W7P	Transit 350 Cutaway (9500 LB) (SRW)*	X	3	2	4
F4U, F4X	Incomplete Transit 350 HD Van (9950 LB) (DRW)**	X		2	
F6Z, F8Z, F9Z	Transit 350 HD Chassis Cab (9950 LB) (DRW)**	X			
F6P, F8P, F9P	Transit 350 HD Cutaway (9950 LB) (DRW)**	X	3	2	4
U4X	Incomplete Transit 350 HD Wagon (10,360 LB) (DRW)**	X	1,5		
S4U, S4X	Incomplete Transit 350 HD Van (10,360 LB) (DRW)**	X		2	
S6Z, S8Z, S9Z	Transit 350 HD Chassis Cab (10,360 LB) (DRW)**	X			
S6P, S8P, S9P	Transit 350 HD Cutaway (10,360 LB) (DRW)**	X	3	2	4

IMPORTANT:

Ford Motor Company makes no representation that the completed vehicle types listed above are the only vehicle types appropriate for the incomplete vehicles listed. However, if a unit is completed as a vehicle type other than as listed above, the Statements of Conformity may not be applicable.

- (1) Builders Prep Package
- (2) Ambulance Prep Package
- (3) Motorhome Prep Package
- (4) Shuttle Bus Prep Package
- (5) Recreational Prep Package

* Single Rear Wheels

** Dual Rear Wheels

STATEMENTS OF CONFORMITY

The following Statements of Conformity apply to vehicles that are produced for sale or importation into the United States or Canada. The term "Incomplete Vehicle Types" in these statements refers to the types of the vehicles depicted on this manual's cover and listed in the chart on the previous page.

The number preceding each Statement of Conformity refers to the number designation for a Part or a Section of Part 571 of the Federal Motor Vehicle Safety Standard.

The statements provided for each safety standard number are appropriate compliance representations for each Canadian safety standard number if this incomplete vehicle, identified by the VIN on the front of the document, was manufactured by Ford Motor Company for sale or use in Canada, except as may be noted at the conclusion of each safety standard number.

101 The statements below are applicable to the following incomplete vehicle types:

- **Incomplete Transit Van or Wagon**
- **Chassis Cab or Cutaway**

This vehicle, when completed, will conform to Standard 101, Controls and Displays if:

- The controls, displays, and their identifications supplied by Ford Motor Company are not removed, relocated, altered, or modified.
- The components, wiring, and power supply installed by Ford Motor Company to illuminate any control, display, or their identification are not removed or altered so as to affect lighting performance.
- Components added to the vehicle do not obstruct the driver's ability to operate or visually locate the controls, displays, and their identifications.
- The driver-seat is not replaced, relocated, or modified other than for the addition of seat trim.

Any controls, displays, and illumination added to this vehicle must conform to the requirements of this Standard.

102 The statement below is applicable to all incomplete vehicle types:

This vehicle, when completed, will conform to Standard 102, Transmission Shift Lever Sequence, Starter Interlock, and Transmission Braking Effect, if no alterations or adjustments are made to the transmission, shift cable, transmission outer shift lever, shift cable bracket, vacuum tubes, vacuum pump system, brake-shift interlock system, starter interlock system, wiring circuit from the interlock switch to the power source, and transmission gear selector indicator (PRNDL).

If an auxiliary transmission is added to this vehicle, it must conform to the requirements of this Standard.

103 The statement below is applicable to all incomplete vehicle types:

This vehicle, when completed, will conform to Standard 103, Windshield Defrosting and Defogging Systems, if no alterations or adjustments are made to heater and blower assemblies, ducting, operating controls, electrical circuit from the blower assembly to the power source, windshield, coolant hoses from the radiator or engine to the heater, and if no obstructions are added that restrict or otherwise redirect the air flow from the defroster outlets to the windshield.

104 The statement below is applicable to all incomplete vehicle types:

This vehicle when completed, will conform to Standard 104, Windshield Wiping and Washing Systems, if no alterations are made to the windshield, the windshield wiping and washing system, including the electrical circuit from the windshield wiping and washing motors to the power source, and if no obstructions are added that restrict or otherwise redirect fluid flow from the washer nozzles to the windshield.

105 INFORMATION

Incomplete vehicle weight and dimensional information required for center of gravity calculations are available in the *Ford Source Book*. See your local Ford Dealer and refer to appropriate model year and specific vehicle for required information.

105 The statements below are applicable to the Transit vehicle when completed:

This vehicle when completed, will conform to Standard 105, Hydraulic and Electric Brake Systems, if:

- No alterations, modifications, or replacements are made to the following:
 - Service or parking brake system
 - Antilock brake system
 - Vacuum system
 - Wheels and tires
 - Brake system indicator lamp and wiring
 - Brake system reservoir labeling; label is not to be obstructed by additional underhood components
 - Suspension ride height or spring rate
 - Wheelbase

NOTE:

Ford Motor Company provides Type I and Type II FMVSS/CMVSS 105 compliance statements for vehicles built to factory standard or optional specifications. Suspension ride height and/or spring rate modifications are factors that may affect compliance to this Standard. If an alterer or final stage manufacturer modifies the suspension ride height or spring rate of the factory-equipped vehicle, then they are responsible for engineering analysis or physical testing to ensure compliance and sign-off to Standard 105.

- Additional sound deadener or rustproofing material applied to the vehicle must not interfere with the proper parking brake cable function.
- No part of add on equipment, i.e., toolboxes, flatbed attaching brackets, etc., can interfere with proper movement of parking brake cables or airflow to rear brake assemblies.
- The maximum GAWR's and GVWR, as identified on the cover of this document, are not exceeded.
- The service or parking brake pedal assembly operation is not restricted by any alteration or added components.
- The completed vehicle center of gravity must be within the parameters of Table A in all loading conditions.

NOTE:

Refer to FMVSS/CMVSS 126 for CGv restrictions for vehicles less than or equal to 4536 kg [10,000 lb] GVWR.

Vehicle specific (as built) CGh and CGv values are available in the *Body Builders Layout Book* or by contacting the Ford Truck Body Builder Advisory Service:

- Call (877) 840-4338
- E-mail via the web at www.fleet.ford.com/truckbbas under the "Contact Us" tab

TABLE A
FMVSS 105 CENTER OF GRAVITY LIMITATIONS

Front and rear axle weight ratings **must not be exceeded** where:

- **CGh** is the longitudinal distance of the center of gravity aft of the front axle centerline
- **CGv** is the vertical distance of the center of gravity from the ground
- **CGt** is the transverse distance of the center of gravity from the vehicle centerline

WB (in)	Min CGh (m)	Min CGh (m)	Max CGh (m)	Minimum CGv (m)	Maximum CGv (m)	Max CGt (mm)
	Except School Bus	School Bus	All	Where X = actual CGh (m) M = vehicle mass (kg) (results < 0.65m indicate no minimum criteria)		
130 Van / Wagon	1.3	---	2.4	1.25X - 9413/M	X - 3.3 + 9485/M	50
138 CC / CA	1.4	1.9	2.4	1.25X - 9984/M	X - 3.5 + 10,060/M	50
148 Van / Wagon	1.5	---	2.75	1.25X - 10,697/M	X - 3.75 + 10,777/M	50
156 CC / CA	1.5	2.1	2.75	1.25X - 11,268/M	X - 3.95 + 11,350/M	50
178 CC / CA	1.6	---	3.1	1.25X - 12,900/M	X - 4.5 + 13,000/M	50

FMVSS 105 DEFINITIONS AND CALCULATION ILLUSTRATION FOR INCOMPLETE TRANSIT VEHICLES

P	= Passenger load (kg [pounds])	WB	= Vehicle wheelbase (mm [inches])
CG_v	= Vertical distance from the ground to the center of gravity of the completed vehicle (mm [inches])	W_t	= Total unladen weight (kilograms [pounds]): $W_t = (W_b + W_c + P)$
CG_h	= Horizontal distance from C/L of the front wheels to the completed vehicle center of gravity (mm [inches])	GVWR	= Gross Vehicle Weight Rating of the vehicle (kg [pounds])
CG_{vb}	= Vertical distance from the ground to the center of gravity of the SUB and/or permanently attached added equipment (mm [inches])	W_i	= Remaining cargo capacity (kg [pounds]): $W_i = GVWR - (W_b + W_c + P)$
CG_{vc}	= Vertical distance from the ground to the center of gravity of the chassis, including cab if original equipment (mm [inches])	W_{rl}	= Weight of the remaining cargo capacity on the rear wheels (kg [pounds]): $W_{rl} = \frac{(CG_{hl}) W_i}{WB}$
CG_{hp}	= Horizontal distance from the C/L of the front wheels to the passenger load P (mm [inches])	CG_{hl}	= Horizontal distance from the C/L of the front wheels to the cargo center of gravity. CG _{hl} may be estimated as the distance from the front wheel to the horizontal midpoint of the cargo area. (mm [inches])
W_b	= Weight of the SUB and/or permanently attached added equipment (kg [pounds])	SUB	= A Second Unit Body consists of the body structure and/or all the cargo carrying, work performing, and/or load bearing components and/or equipment installed by a subsequent stage manufacturer on an incomplete vehicle, such that the incomplete vehicle becomes a completed vehicle.
W_{rb}	= Weight at the rear wheels of the SUB and/or permanently attached added equipment (kg [pounds])		
W_{rc}	= Weight at the rear wheels of the vehicle (chassis and cab, fuel tanks full) including option weight (kg [pounds])		
W_c	= Weight of the vehicle (chassis and cab, fuel tanks full) including option weight (kg [pounds])		

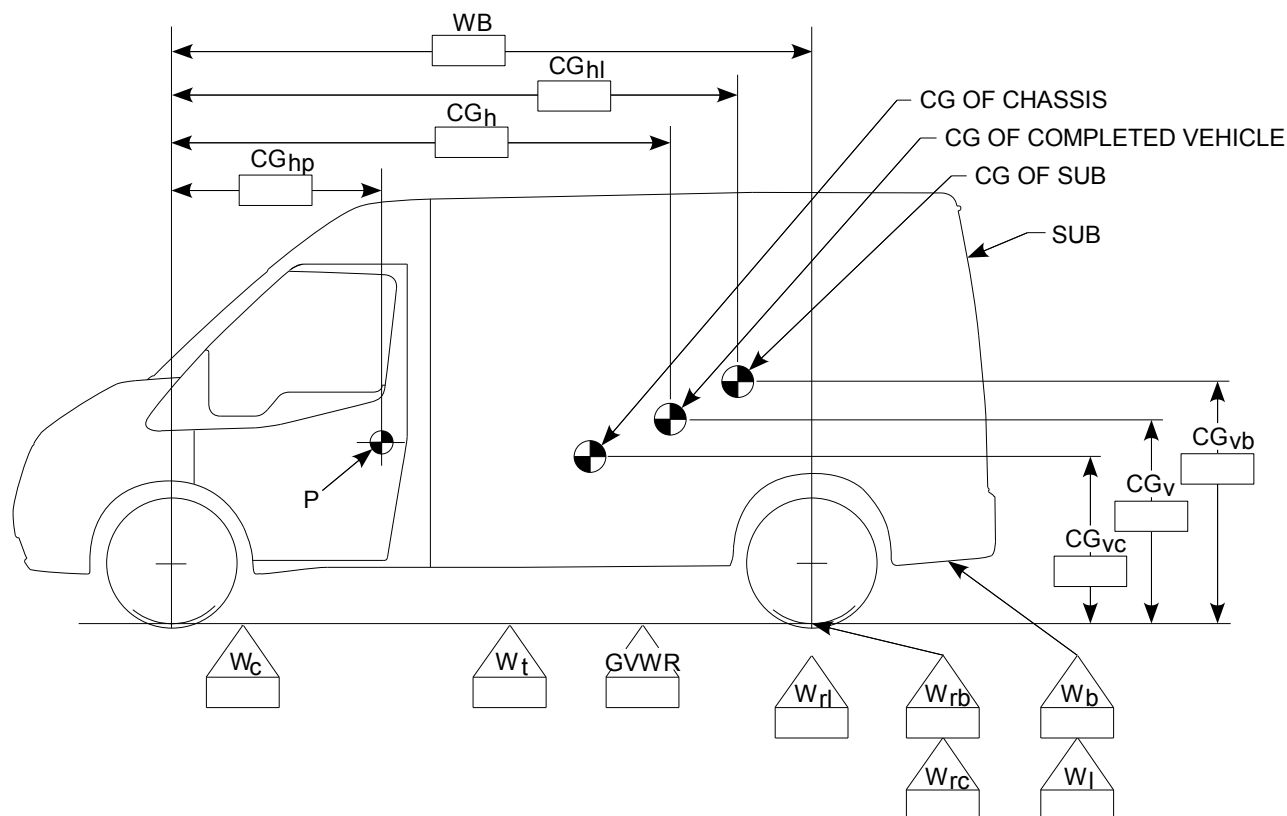


TABLE B PASSENGER LOAD (P)	
GVWR	Kilograms [pounds]
3901 – 4536 kg [8600 – 10,000 lb]	181 [400]
4537 – 8618 kg [10,001 – 19,000 lb]	227 [500]

TABLE C MINIMUM SECOND UNIT BODY WEIGHT FOR FMVSS 105 COMPLIANCE (Calculated @ Rear Axle)	
Model	Kilograms [pounds]
Transit Chassis Cab or Cutaway 3505 mm [138 in] WB	159 [350]
Transit Chassis Cab or Cutaway 3962 mm [156 in] WB	113 [250]
Transit Chassis Cab or Cutaway 4521 mm [178 in] WB	0 [0]

TABLE D CG_{hp} = Horizontal distance from the C/L of the front wheels to the passenger load P	
Model	mm [inches]
All Transit models	1031 [40.6]

106 The statement below is applicable to all incomplete vehicle types:

This vehicle, when completed, will conform to Standard 106, Brake Hoses, if the brake hose assemblies supplied by Ford Motor Company are not removed, relocated, altered, or modified and if no brake hose assemblies are added.

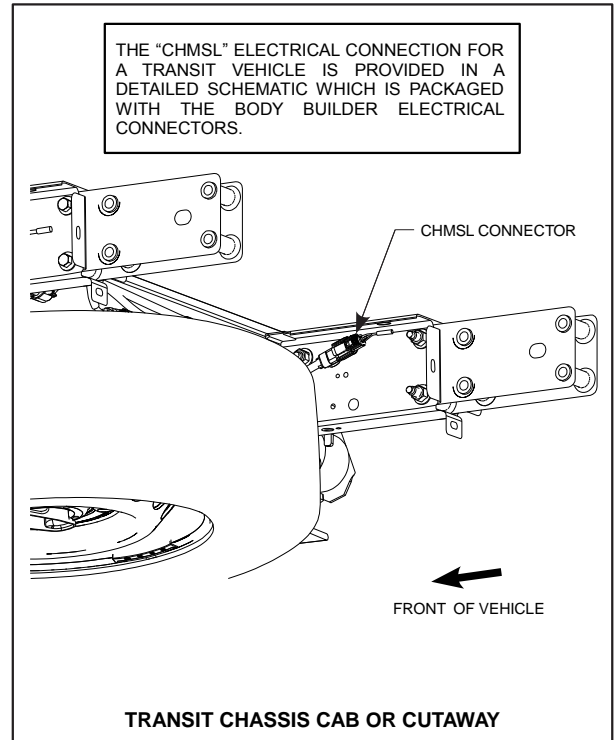
108 The statements immediately below, concerning Standard 108 Lamps, Reflective Devices, and Associated Equipment are applicable to all incomplete vehicle types:

- No additional components may be added to the vehicle which require the use of tools to remove such components, for access to the headlamp aiming devices as provided by Ford Motor Company.
- Daytime Running Lamps (DRL's): Light Trucks for sale or use in Canada are equipped with DRL's that meet the Canadian DRL requirements. As manufactured for Canada, the Transit vehicles will meet the FMVSS 108 requirement for DRL's when DRL's are provided.
- Conformity with Standard 108, S12, Headlamp Concealment Devices, cannot be determined based upon the components supplied on this incomplete vehicle; accordingly, Ford Motor Company makes no representation as to conformity with this Standard.

108 The statement below is applicable to the following vehicle type with a GVWR of 4536 kg [10,000 lb] or less and a vehicle width less than 2032 mm [80.00 in]:

• Chassis Cab or Cutaway

This vehicle, when completed, will conform to Standard 108, Lamps, Reflective Devices, and Associated Equipment if a Center High Mounted Stop Lamp (CHMSL) is installed so it meets all the requirements of this standard and is connected to the electrical power source as provided by Ford Motor Company. See the figure below for circuit location.



CENTER HIGH-MOUNTED STOP LAMP (CHMSL) – ELECTRICAL CONNECTOR LOCATION

TABLE E
Standard 108 Lighting Equipment
For Chassis Cab & Cutaway Vehicles

Item	Transit Completed as Truck, MPV, Bus or School Bus	
	Width less than 2032 mm [80 in]	Width 2032 mm [80 in] or more
Headlamps	S	S
Tail Lamps	S (4)	S (4)
Stop Lamps	S (4)	S (4)
Center High Mounted Stop Lamp (CHMSL)	R	N
License Plate Lamps	R	R
Reflex Reflectors – Side Front	S	S
– Side Rear	R	R
– Rear	R	R
Side Marker Lamps – Front	S	S
– Rear	R	R
Back-Up Lamps	S	S
Turn Signal Lamps – Front	S	S
– Rear	S (4)	S (4)
Turn Signal Operating Unit	S	S
Turn Signal Flasher (2)	S	S
Vehicular Hazard Warning Signal Operating Unit	S	S
Vehicular Hazard Warning Signal Flasher	S	S
Identification Lamps – Front	N (3)	S
– Rear	N	R
Clearance Lamps – Front	N (3)	S (1)
– Rear	N	R
Parking Lamps	S	N
<p><i>S Required on completed vehicle and supplied with the incomplete vehicle.</i></p> <p><i>R Required on completed vehicle and not supplied with the incomplete vehicle.</i></p> <p><i>N Not required for completed vehicle.</i></p> <p><i>D Required on completed vehicle and available as an option (either on vehicle or shipped in dunnage).</i></p> <p><i>(1) Cab-mounted clearance lamps, if supplied, may not adequately indicate overall width of the vehicle per F/CMVSS 108; additional clearance lamps may be required on the Second Unit Body if the SUB is higher or wider than the cab.</i></p> <p><i>(2) Turn signal flasher function is contained within the Body Control Module features. All chassis cab and cutaway vehicles are configured to provide the function of a variable-load turn signal flasher.</i></p> <p><i>(3) Supplied as supplemental roof lighting</i></p> <p><i>(4) For vehicles provided with rear frame extensions, geometric visibility requirements at 45 degrees inboard will <u>not</u> be met. The subsequent stage manufacturer is responsible for installing light assembly in a location in compliance with F/CMVSS 108.</i></p>		

108 The statements below are applicable to the following incomplete vehicle type:

• **Chassis Cab or Cutaway**

This vehicle, when completed, will conform to Standard 108, Lamps, Reflective Devices, and Associated Equipment, if all the required lighting equipment as indicated in Table E on this page (identified by the codes D, R and S) is designed and installed in accordance with the requirements of Standard 108 and the directions contained in this statement. Additionally, if the completed vehicle overall length is 9.14 meters [30 feet] or more, intermediate side marker lamps and reflex reflectors (not supplied by Ford Motor Company) are also required for compliance with Standard 108.

The items of equipment which are supplied by Ford Motor Company (identified by the code S in Table E) are designed and installed to conform to all the applicable requirements of Standard 108. The completed vehicle, with these components installed, will conform to Standard 108 if the subsequent stage manufacturer does not remove, relocate, alter, or modify such equipment or modify the power supply or wiring to such equipment, and does not complete the body in such a configuration as to impair the visibility and conformity to the photometric requirements of the installed lamps and reflective devices.

Specific requirements for lighting and associated equipment are listed by incomplete vehicle type in Table E.

Lamps, reflective devices, and associated equipment necessary to complete the vehicle from an incomplete vehicle must conform to the equipment, locations, special wiring, visibility, photometric, and performance requirements of Standard 108 and to the applicable SAE standards or recommended practices referenced or sub-referenced in this Standard.

All electrical equipment added to the vehicle by subsequent stage manufacturers must conform to the wiring practices set forth in the Electrical Wiring Section of the *Ford Truck Body Builders Layout Book*.

108 The statements below are applicable to the following incomplete vehicle types:

• **Incomplete Transit Van or Wagon**

This vehicle, when completed, will conform to Standard 108, Lamps, Reflective Devices, and Associated Equipment, if the subsequent stage manufacturer does not:

- Remove, alter, replace, or relocate the lighting equipment installed on the incomplete vehicle.
- Modify the power supply or wiring to such equipment.
- Add any additional external lighting equipment.
- Increase the overall width of the vehicle beyond that of the incomplete vehicle.
- Complete, modify, or add components to the vehicle in such a manner as to impair the visibility and conformity to the photometric requirements of the installed lamps and reflective devices.

For vehicles over 80" wide, the OEM mirror assemblies incorporate clearance lamps in their housings. If a vehicle is ordered with a mirror-delete option, Ford Motor Company makes no representation as to the compliance of the completed vehicle to this portion of Standard 108.

108 (Continued next page)

108 Canadian Requirements:

The preceding statements for Standard 108 are appropriate compliance representations for CMVSS 108, Lighting, if this vehicle is manufactured for sale or use in Canada, provided:

- No component of the Daytime Running Lamp (DRL) system is removed, relocated, or modified.
- The DRL circuits in the Body Control Module or headlamp circuits/ hardware are not altered.
- The Body Control Module is not repositioned.

The Transit, when equipped with a Body Control Module configured for Daytime Running Lamps as provided by Ford Motor Company, is designed for a two headlamp system that functions at a reduced low beam lamp intensity while operated in the DRL mode.

110 U.S. Requirements:

The statement below is applicable to all incomplete vehicles with a GVWR of 4536 kg [10,000 lbs] or less:

This incomplete vehicle does not comply to FMVSS 110, Tire Selection and Rims and Motor Home/Recreation Vehicle Trailer Load Carrying Capacity Information for Motor Vehicles with a GVWR of 4,536 Kilograms (10,000 Pounds) or Less. In order to comply, the final stage manufacturer must affix a tire placard as specified in paragraph S4.3 of FMVSS 110. The decal must be affixed to the B-Pillar. See below for sample placard content and note color and format requirements in S4.3.

TIRE AND LOADING INFORMATION			
SEATING CAPACITY		TOTAL: 2	FRONT: 2 REAR: 0
The combined weight of occupants and cargo should never exceed XXXkg or XXXlbs.			
TIRE	SIZE	COLD TIRE PRESSURE	SEE OWNER'S MANUAL FOR ADDITIONAL INFORMATION
FRONT	P235/55R19 101H	240KPA, 35 PSI	
REAR	P235/55R19 101H	240KPA, 35 PSI	
SPARE	T155/70D17 101M	415KPA, 60 PSI	

111 The statement below is applicable to the following incomplete vehicle types when not equipped with outside mirrors:

- Incomplete Transit Van or Wagon
- Chassis Cab or Cutaway

Conformity with Standard 111, Rearview Mirrors, cannot be determined based upon the components supplied on this incomplete vehicle; accordingly, Ford Motor Company makes no representation as to conformity with this Standard.

111 The statements below are applicable to the following incomplete vehicle type when equipped with OEM outside mirrors:

- Incomplete Transit Van or Wagon
- Chassis Cab or Cutaway

This vehicle, when completed, will conform to Standard 111, Rearview Mirrors, if:

- The mirrors and their mounts as supplied by Ford Motor Company are not removed, relocated, replaced, nor altered.
- No structural modifications are made to the body which would affect the stability of the mirror mounts.
- Any modifications or additions made to the incomplete vehicle must not adversely affect the driver's view to the rear in the outside mirrors along both sides of the vehicle.

113 The statement below is applicable to all incomplete vehicle types:

This vehicle, when completed, will conform to Standard 113, Hood Latch Systems, if the hood latch system as provided by Ford Motor Company is not removed or altered.

114 The statements below are applicable to all incomplete vehicle types when completed as either a MPV or a Truck with a GVWR of 4536 kg [10,000 lb] or less:

This vehicle, when completed, will conform to Standard 114, Theft Protection, if the following components, to the extent provided by Ford Motor Company, are not removed, relocated, altered, or modified in any way:

- Steering column locking mechanism system
- Ignition key/transmission shift interlock locking system
- Ignition key-locking system
- Key warning buzzer system

If any of the above components are added to the vehicle they must conform to the requirements of this Standard.

115 Canadian Requirements:

The statements for Part 565.4 are appropriate compliance representations for CMVSS 115, Vehicle Identification Number, if this incomplete vehicle was manufactured for sale or use in Canada.

116 The statement below is applicable to all incomplete vehicle types:

This vehicle, when completed, will conform to Standard 116, Motor Vehicle Brake Fluids, provided any brake fluid added or replaced is Motorcraft/Ford DOT 4 LV High-Performance Brake Fluid or equivalent meeting WSS-M6C65-A2 or the ISO 4925 Class 6 specification and contaminants are not introduced into the hydraulic brake system. Use of any other fluid other than the recommended fluid may cause degraded brake performance and not meet Ford Motor Company's performance standards.

118 The statement below is applicable to all incomplete vehicle types not equipped with power windows when completed as either a MPV or a Truck with a GVWR of 4536 kg [10,000 lb] or less:

Conformity with Standard 118, Power-Operated Window, Partition, and Roof Panel Systems, cannot be determined based upon the components supplied on this incomplete vehicle; accordingly, Ford Motor Company makes no representation as to conformity with this Standard. If any power operated window, partition, or roof panel systems are installed by subsequent stage manufacturers, they must conform to the requirements of Standard 118.

118 The statement below is applicable to all incomplete vehicle types equipped with power windows when completed as either a MPV or a Truck with a GVWR of 4536 kg [10,000 lb] or less:

This vehicle, when completed, will conform to Standard 118, Power Operated Window, Partition, and Roof Panel Systems, if the power operated windows, motors, wiring, and key and switch activation systems, where provided by Ford Motor Company, are not removed, relocated, altered, or modified in any way. If additional power operated window, partition, or roof panel systems are installed by subsequent stage manufacturers, they must conform to the requirements of Standard 118.

119 The statement below is applicable to all incomplete vehicle types:

All tires supplied by Ford Motor Company are in full conformity with Standard 119, New Pneumatic Tires for Vehicles Other than Passenger Cars.

If additional tires are installed or the existing tires are replaced by subsequent stage manufacturers, they must conform to the requirements of Standard 119.

120 The statement below is applicable to all incomplete vehicles:

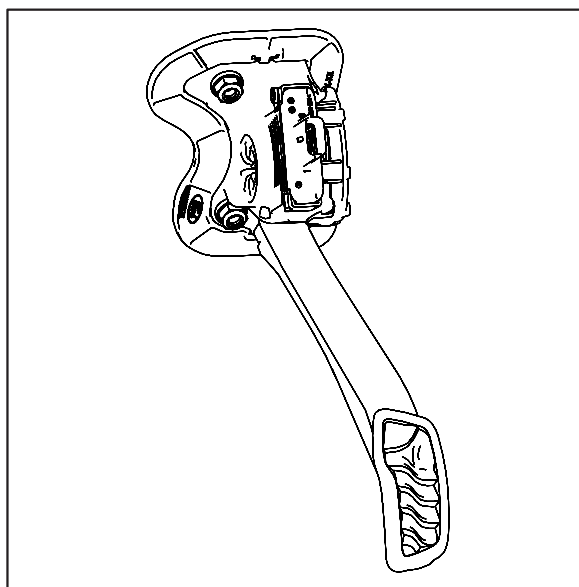
This vehicle, when completed, will conform to the tire and rim selection requirements of Standard 120, Tire Selection and Rims and Motor Home/Recreation Vehicle Trailer Load Carrying Capacity Information for Motor Vehicles with a GVWR of More Than 4536 Kilograms (10,000 Pounds), if:

- The tire and rim assemblies are not removed, altered, or replaced
- The Incomplete Vehicle Information Label that is either provided with the incomplete vehicle or affixed to the vehicle is not removed
- The final stage manufacturer must, in accordance with the requirements of Standard 120 and Part 567 of Title 49, Code of Federal Regulations (Section 6.6 of the Canadian Motor Vehicle Safety Regulations), affix a Certification (Compliance) label to the completed vehicle indicating tire size, rim size, cold inflation pressure, and the gross axle weight ratings. This information is provided on the label that is affixed to the cover of this Incomplete Vehicle Manual (IVM).

124 The statements below are applicable to all incomplete vehicle types:

This vehicle, when completed, will conform to Standard 124, Accelerator Control Systems, if:

- No alterations are made to the accelerator pedal, mounting hardware, adjustable pedal mechanism, or other components of the accelerator control system as installed by Ford Motor Company.
- No equipment is added nor existing equipment modified which would restrict operation of the accelerator control system.
- No alterations are made to the Pedal Position Sensor and all associated hardware and wiring. See the figure below for component identification.



ELECTRONIC ACCELERATOR CONTROL (Typical)

126 The statement below is applicable all incomplete vehicle types if the GVWR is 4536 kg [10,000 lb] or less:

This vehicle, when equipped with a Roll Stability Control (RSC) feature, will conform to Standard 126, Electronic Stability Control Systems, when completed, if:

- The vertical center of gravity (CG_v) of the completed vehicle (as upfit) is less than or equal to the following limitations and no modifications have been made to the components of the braking system, suspension system, wheels and tires:

Roll Stability Control Maximum CG _v			
Vehicle Type	Rear Axle	Max CG _v (m)	Max CG _v (inches)
Van	SRW	0.90	35.4
	DRW	1.00	39.4
Wagon	SRW	0.95	37.4
	DRW	1.00	39.4
Chassis Cab & Cutaway	SRW	0.90	35.4
	DRW	1.00	39.4

- Completed vehicle weight should not exceed Maximum Unloaded Vehicle Weights (UVW).

For vehicles equipped with RSC, if the vertical center of gravity (CG_v) of the vehicle is above the noted limitations, Ford Motor Company makes no representation as to conformity with this Standard.

138 The statement below is applicable to all single rear wheel (SRW) incomplete vehicle types if the GVWR is 4536 kg [10,000 lb] or less (if equipped):

The Tire Pressure Monitoring System (TPMS) is subject to interference from the addition of metallic structures between the wheel-mounted sensor transmitters and the on-board receiver.

This vehicle, when completed, will conform to Standard 138, Tire Pressure Monitoring Systems, if:

- No alterations are made to the tire pressure sensors (valve stems), wheels, tires, recommended tire pressures, electrical Body Control Module, TPMS receiver (located on overhead shelf, or in headliner on low-roof models), instrument cluster, instrument panel wiring, or software calibrations
- Wheelbases are not lengthened
- No equipment that emits radio frequency (RF) energy is added to the vehicle
- After vehicle upfit, function of the Tire Pressure Monitoring System is verified in accordance with FMVSS 138.

139 The statement below is applicable to all incomplete vehicle types if the GVWR is 4536 kg [10,000 lb] or less :

All tires supplied by Ford Motor Company are in full conformity with Standard 139, New Pneumatic Radial Tires for Light Vehicles.

If additional tires are installed or the existing tires are replaced by subsequent stage manufacturers, they must conform to the requirements of Standard 139.

201 The statements below are applicable to incomplete vehicles with a GVWR of 4536 kg [10,000 lb] or less:

This vehicle, when completed, will conform to Standard 201, Occupant Protection in Interior Impact, (excluding U.S. Requirements Section S6 addressed separately) if the following components, as provided by Ford Motor Company, are not removed, relocated, altered, or modified in any way:

- Instrument panel
- Interior compartment doors
- Overhead tray (when equipped)
- Headliner
- Sun visors
- Arm rests

Seat backs of front seats installed by Ford Motor Company are designed to meet the seat back requirements of Standard 201. If any of the above mentioned components (including front seats) are added to the incomplete vehicle by a subsequent stage manufacturer, these components must conform to the requirements of Standard 201 where applicable.

Because conformity of a completed vehicle to the seat back requirements of this standard is dependent upon the location of a seat installed by a subsequent stage manufacturer to the rear of another seat, Ford Motor Company makes no representation as to compliance of a completed vehicle to the seat back requirements if such a seat is installed.

If a vehicle is equipped with a Passenger Side Air Bag Delete Option a RH passenger seat should never be installed. If such a seat is installed Ford Motor Company makes no representation as to the compliance of the completed vehicle to Standard 201.

201U U.S. Requirements (Section S6):

The statements below are applicable to incomplete vehicles with a GVWR of 4536 kg [10,000 lbs] or less. (Note: Buses with a GVWR more than 3860 kg [8510 lbs] are exempt from the requirements):

- Incomplete Transit Van or Wagon
- Chassis Cab or Cutaway

This incomplete vehicle will conform to Standard 201 Section 6, Occupant Protection in Interior Impact – Requirements for Upper Interior Components, if in the process of completing the vehicle none of the following components, as provided by Ford Motor Company, are removed, relocated, altered, or modified either physically or chemically:

- A, B, rear, or other pillar and trim and assist handles
- Seat belt 'D'-rings/adjusters and 'D'-ring covers and sling systems
- Canopy air curtain (if equipped)
- Front or rear header, headliner and trim
- Overhead tray
- Side rails, trim, coat hooks and ride handles
- Upper roof and trim
- Exterior windshield trim
- Exterior roof drain ditches
- Primary and secondary door/body seals at all door opening locations in the vehicle
- Sunvisors and attachment hardware
- Changes to the design Seating Reference Point (SRP) with modifications to the seat system

Note: Standard 201 Section 6 requires compliance of all upper interior components located forward of a vertical plane 300 mm behind the seating reference point of the driver's designated seating position.

Note: If an alterer or final stage manufacturer adds any component located within 300mm rearward of the driver's designated seating reference point (this includes any of the components listed above, or back panels, bulkheads/dividers, etc.), these components will have to conform to the requirements of Standard 201 Section 6 where applicable. Also, because the upper interior performance for Cutaway products is affected by the rigidity of the back panel attachment, existing upper interior trim components may require recertification after attachment of a back panel.

201U U.S. Requirements (Section S6 - Upper Interior Components):

The statement below is applicable to the following incomplete vehicle type if the GVWR is 4536 kg [10,000 lbs] or less:

- Incomplete Transit Van, Wagon or Cutaway equipped with Prep Package without headliner trim, or if headliner removed by final stage manufacturer on a vehicle so equipped

Conformity with Standard 201 Section 6, Occupant Protection in Interior Impact - Upper Interior Head Impact Protection Requirements, cannot be determined based upon the components supplied on the incomplete vehicle; accordingly, Ford Motor Company makes no representation as to conformity with this Standard.

202a The statements below are applicable to the following incomplete vehicle types if the GVWR is 4536 kg [10,000 lb] or less:

- Incomplete Transit Van or Wagon
- Chassis Cab or Cutaway

This vehicle when completed, will conform to Standard 202a, Head Restraints, if:

- No alterations are made to the head restraints, the seat assemblies and their anchorages, the floor pan, or floor pan reinforcements.

Any front outboard passenger seat, added to a cutaway when completed as a truck, MPV, or bus (not school bus), must conform with the requirements of this Standard.

203 The statement below is applicable to all incomplete vehicle types if the GVWR is 4536 kg [10,000 lb] or less:

This vehicle, when completed, will conform to Standard 203, Impact Protection for the Driver from the Steering Control System, if the steering control system is not removed, relocated, altered, or modified in any way and no components or attachments are added to the steering control system that can catch the driver's clothing or jewelry during normal driving maneuvers.

203 Canadian Requirements:

The preceding statements for FMVSS 203 are appropriate compliance representations for CMVSS 203, Driver Impact Protection, if this incomplete vehicle was manufactured for sale or use in Canada.

204 INFORMATION

Refer to the Design Recommendations section of the *Ford Truck Body Builders Layout Book* and the *QVM Bulletins* on the web at www.fleet.ford.com/truckbbas for Second Unit Body attachment information that may aid in designing second unit bodies and their attachments to be compatible with Transit vehicles.

204 The statements below are applicable to all incomplete vehicle types if the GVWR is 4536 kg [10,000 lb] or less and the Unloaded Vehicle Weight, when completed, is 2495 kg [5,500 lb] or less:

This vehicle, when completed, will conform to Standard 204, Steering Control Rearward Displacement, if:

- No components are added which could influence the rearward displacement of the steering column.
- The steering column, steering intermediate and coupling shaft, steering wheel, steering gear, steering linkage, related structural components, and attaching hardware, as installed by Ford Motor Company, are not removed, relocated, altered, or modified in any way.
- No alteration or modifications are made to the body chassis, drivetrain, or front suspension from the B-pillar forward.

205 The statement below is applicable to all incomplete vehicle types:

This vehicle, when completed, will conform to Standard 205, Glazing Materials, if no alterations to or replacements of the installed glazing materials are made and if additional glazing materials installed by a subsequent stage manufacturer conforms to the requirements of Standard 205.

206 The statements below are applicable to all incomplete vehicle types when completed as a Truck:

This vehicle, when completed, will conform to Standard 206, Door Locks and Door Retention Components, if no alterations or adjustments are made to the door, door pillar structure, door locks, door latches, striker plates, hinges, and attaching hardware as installed by Ford Motor Company.

Any door added to this vehicle by a subsequent stage manufacturer must be equipped with door locks and door retention components that conform with this Standard.

207 The statements below are applicable to the following incomplete vehicle types:

- Incomplete Transit Van or Wagon
- Chassis Cab or Cutaway

This vehicle, when completed, will conform to Standard 207, Seating Systems, if no alterations are made to the seat assemblies, their anchorages, the floor pan, or floor pan reinforcements. Any seating system added to this vehicle must conform to applicable requirements of this Standard. When the Cutaway is completed as a school bus, also see Standard 222.

If the front seat attaching hardware is removed for any reason, it must be reinstalled to the specifications in the appropriate Ford Truck Service Manual.

The Incomplete Transit Van or Wagon may have additional anchorages for rear seats other than the front driver and passenger seats. These locations apply to specific hardware and designated seating positions used in Ford completed vehicles. If these anchorages are used without the appropriate Ford seats, seat belt systems, and hardware, Ford Motor Company makes no representation as to conformity with this Standard.

208 NOTE

A Restraints Control Module (RCM) is located under the parking brake assembly. Care must be used to avoid damage to the RCM and sensor wiring during removal or re-installation of the driver's seat. Refer to Figure B.

208 The statement below is applicable to the following incomplete vehicle types when equipped with Ford trimmed front seats and either the GVWR is over 3856 kg [8500 lb], or the Unloaded Vehicle Weight, when completed, is over 2495 kg [5500 lb]:

- Incomplete Transit Van or Wagon
- Chassis Cab or Cutaway

This vehicle, when completed, will conform to Standard 208, Occupant Crash Protection, if:

- The seat belts, seat belt warning system, and attaching hardware installed by Ford Motor Company are not removed, relocated, altered, or modified.

- No actions are taken which would impair the integrity of the belt and seat belt warning systems. (A seat belt warning system is not required for a vehicle with a GVWR over 4536 kg [10,000 lb] or for a bus).
- Any rear seats installed by Ford Motor Company that are temporarily removed for any reason are returned to their original location and condition in the vehicle.
- The Air Bag Supplemental Restraint System (Driver, Passenger, Seats, Canopy Air Curtain) as installed by Ford Motor Company (see Figures B & C) is not removed, relocated, modified or altered in any way.
- The Air Bag Supplemental Restraint System Information Labels that are affixed to the front visors are visible and not altered, modified, or removed. If the Air Bag Supplemental Restraint System Information Labels are not affixed to the front visors but shipped in dunnage, the following is necessary to meet Standard 208:
 - The information label must be permanently affixed to each visor in an upright position readable from the driver's or passenger's seating position.
 - If the label is not visible when the visor is stored (up position), an Air Bag Alert Label shall be placed on the visible surface of the visor as specified in Section 4.5.1(c) of Standard 208.
 - If the information label and/or the visor is not included on a Prep package, Ford Motor Company makes no representation as to conformity with this Standard.

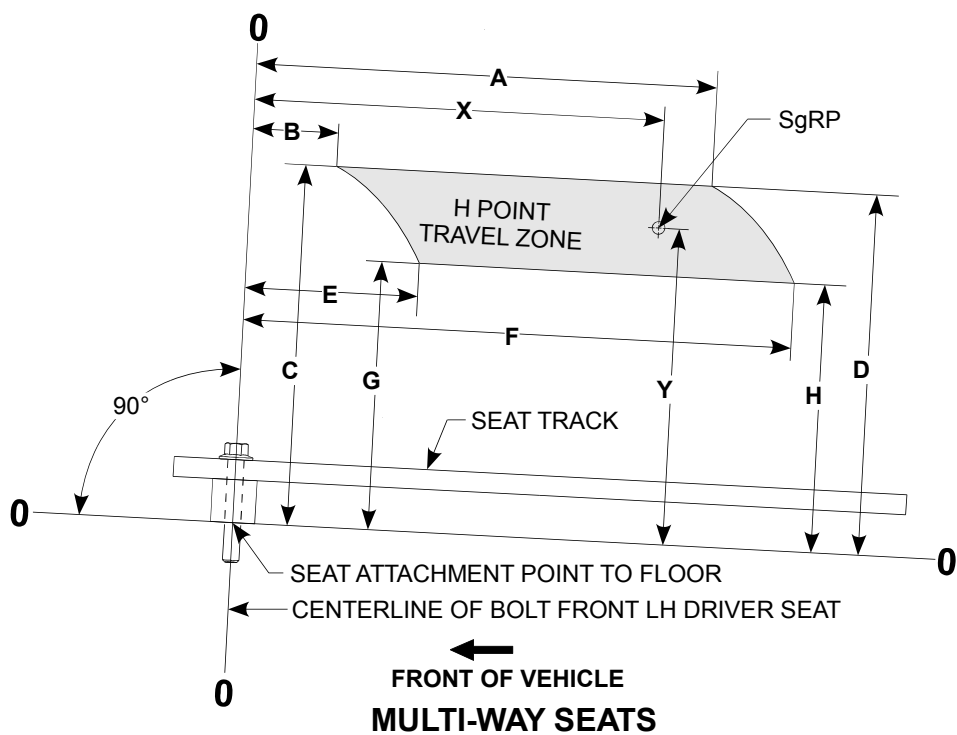
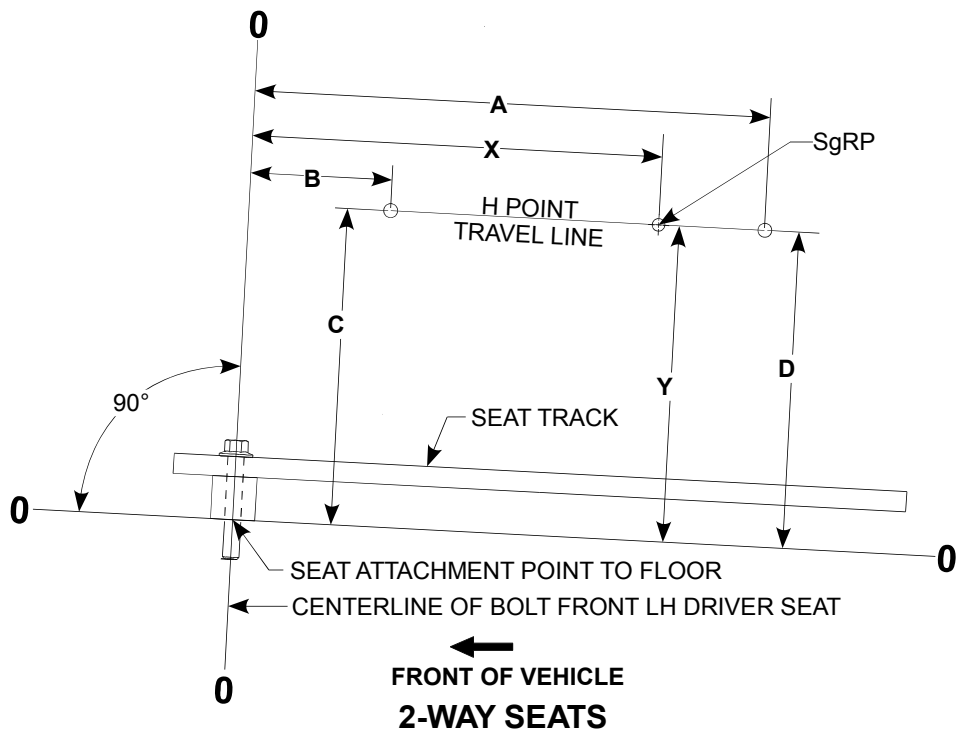
Any seat belt assemblies added to this vehicle must conform to the applicable requirements of this Standard.

208 Canadian Requirements:

The preceding statements and supporting figures for FMVSS 208 are appropriate compliance representations for CMVSS 208, Occupant Restraint Systems in Frontal Impact, if this incomplete vehicle was manufactured for sale or use in Canada. In such a case, CMVSS 208 paragraphs (13), (14), and (15) are substituted for the reference to FMVSS 208 Section 7.1; CMVSS 208 paragraph (20) should be substituted for the reference to FMVSS 208 Section 7.2; and CMVSS 208 paragraphs (29), (30), (31), (32), (33), (34), (35), (36), (37), (38), (39), and (40) should be substituted for the reference to FMVSS 208 Section 7.4.

WARNING:

Vehicles, including those over 3856 kg [8500 lb] GVWR and/or over 2495 kg [5500 lb] UVW, are equipped with a front row occupant supplemental restraint system (front/side/curtain airbags, wiring, and sensors including a Restraints Control Module (RCM) under driver's seat) and pyrotechnic buckle pretensioner(s). Deletion of front passenger accommodations including restraints, seat, and pedestal coupled with the addition of delete resistors in the sensor system circuitry is available on some vehicles. Modifications to the vehicle forward of or near crash sensors may affect the deployment of the airbag(s) and pretensioner(s).



Seat Model	Seat Dimensions								SgRP Location	
	A	B	C	D	E	F	G	H	X	Y
2-Way Seats	302 [11.9]	54 [2.1]	449 [17.7]	449 [17.7]	—	—	—	—	261 [10.3]	449 [17.7]
4-Way Seats	290 [11.4]	42 [1.7]	477 [18.8]	477 [18.8]	47 [1.9]	295 [11.6]	418 [16.5]	412 [16.2]	261 [10.3]	449 [17.7]
10-Way Seats	293 [11.5]	44 [1.7]	479 [18.9]	479 [18.9]	35 [1.4]	284 [11.2]	400 [15.7]	400 [15.7]	261 [10.3]	449 [17.7]

Seat Track Angle To Top Of Frame = 2.4°

[] Dimensions are in inches

FIGURE A – TRANSIT SEATING REFERENCE POINT (SRP)

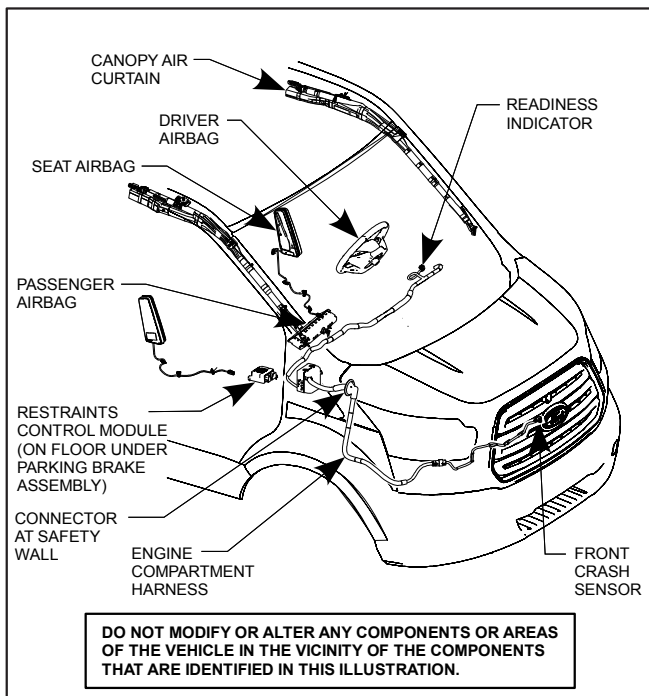


FIGURE B1 – TRANSIT SUPPLEMENTAL RESTRAINT SYSTEM (Air Bags, Sensors, and Wiring)

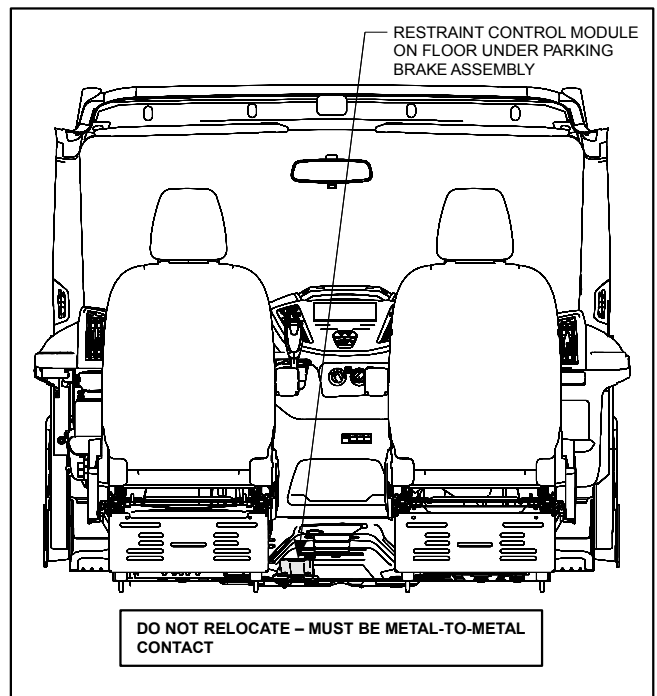


FIGURE B2 – TRANSIT RESTRAINT CONTROL MODULE

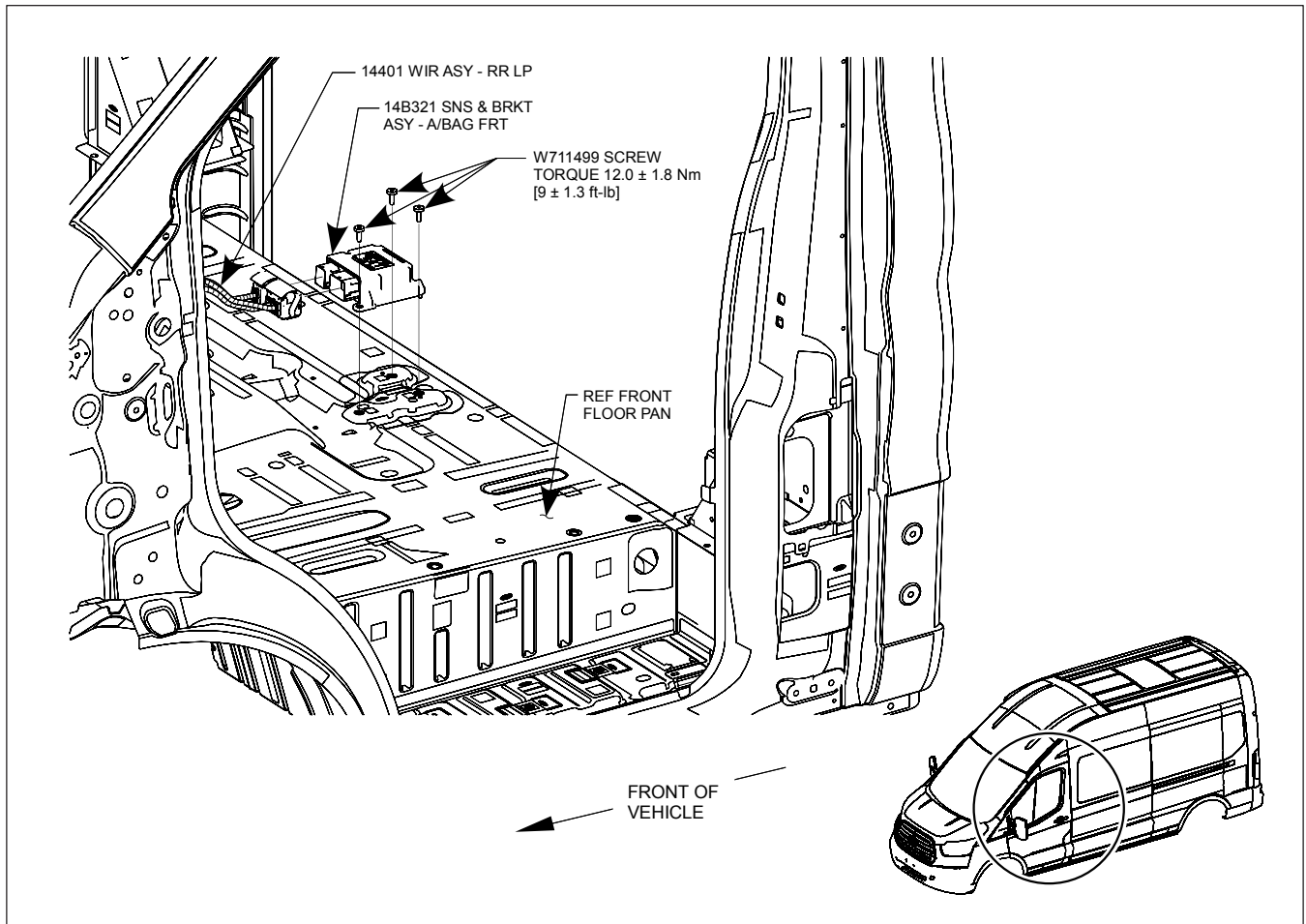


FIGURE B3 – TRANSIT RESTRAINT CONTROL MODULE MOUNTING

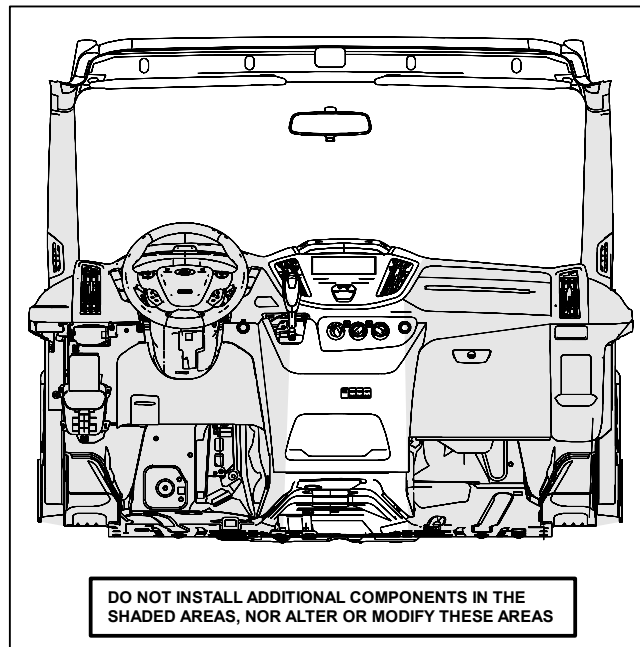


FIGURE C1 – TRANSIT OCCUPANT PROTECTION ZONE

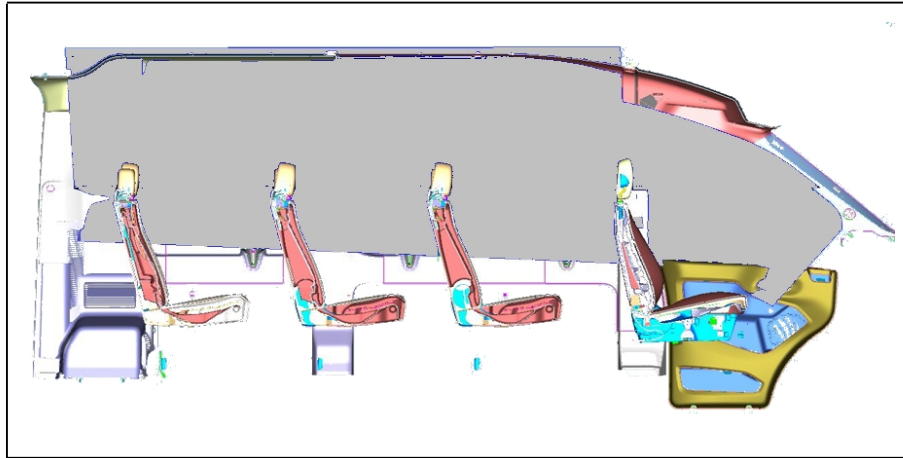


FIGURE C2 – TRANSIT OCCUPANT PROTECTION ZONE (TYPICAL)

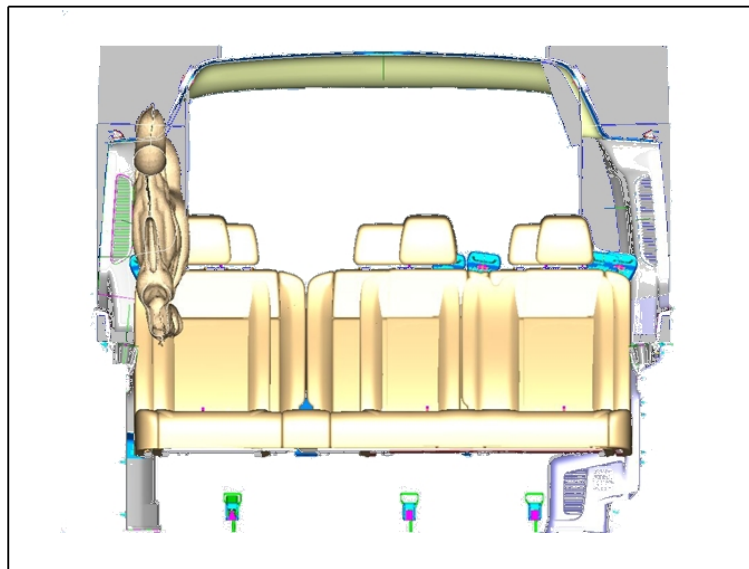


FIGURE C3 – TRANSIT OCCUPANT PROTECTION ZONE

209 The statements below are applicable to the following incomplete vehicle types:

- Incomplete Transit Van or Wagon
- Chassis Cab or Cutaway

This vehicle, when completed, will conform to Standard 209, Seat Belt Assemblies, if:

- No alterations or replacements are made to the seat belt assemblies and attaching hardware.
- No action is taken that would impair the integrity of the seat belt system provided.

Any seat belt assemblies added to a vehicle must conform to the requirements of this Standard.

209 Canadian Requirements:

The preceding statements for FMVSS 209 are appropriate compliance representations for CMVSS 209, Seat Belt Assemblies, if this incomplete vehicle was manufactured for sale or use in Canada. In such a case, CMVSS 209 paragraphs (2) and (3), (4) and (5), (14), (15), and (7) are substituted for the reference to FMVSS 209 Sections 4.1(b), (c), (e), (g), and (h), respectively.

210 The statements below are applicable to all incomplete vehicle types:

This vehicle, when completed, will conform to Standard 210, Seat Belt Assembly Anchorages, if:

- No alterations are made to the front seat belt anchorages, front seat belt assemblies, floor pan, floor pan reinforcements, or body mounts.
- No window or roof modifications are completed on vehicle.

The Incomplete Transit Van, Wagon, Cutaway or Chassis Cab must have a seat belt anchorage system installed for each additional designated seating position that conforms to the applicable requirements of this Standard.

The Incomplete Transit Van or Wagon may have additional seat belt anchorages for designated seating positions other than the front driver and passenger seats. Also, Cutaway vehicles may have additional seat belt anchorages for designated seating positions on optional seats not provided on incomplete vehicles. These locations apply to specific hardware and designated seating positions used in Ford completed vehicles. If these anchorages are used without the appropriate Ford seats, seat belt systems, and hardware, Ford Motor Company makes no representation as to conformity with this Standard.

210.1 Canadian Requirements:

The statement below is applicable to buses with a GVWR of 4536 kg [10,000 lb] or less:

This vehicle, when completed, will conform to Standard 210.1, User-Ready Tether Anchorages for Restraint Systems, if:

- No alternations are made to the front passenger seat tether anchorages and access to the anchorages is not restricted; the front passenger seat, its anchorages, the floor pan and its reinforcements are not altered; and no seats are added.

Because the addition of seats would change compliance with this Standard, Ford Motor Company makes no representations as to conformity with this Standard for any vehicle that has seats added by intermediate or final stage manufacturers.

210.1 Canadian Requirements:

The statement below is applicable to buses with a GVWR of 4536 kg [10,000 lb] or less:

This vehicle, when completed, will conform to Standard 210.2, Lower Universal Anchorage Systems for Restraint Systems and Booster Cushions, if:

- No alterations are made to the front passenger seat and no seats are added.

Because the addition of seats would change compliance with this Standard, Ford Motor Company makes no representations as to conformity with this Standard for any vehicle that has seats added by intermediate or final stage manufacturers.

212/ Note

219 The terms "body" or "body structure," in the 212 and 219 statements that follow, include any equipment permanently attached to that body or body structure installed by the subsequent stage manufacturer as well as the basic body or body structure.

212/ INFORMATION

219 Refer to the Design Recommendations section in the *Ford Truck Body Builders Layout Book* for Second Unit Body Attachment information to aid in designing second unit bodies and their attachments for compatibility with Transit vehicles.

212/ The statements below are applicable to the following incomplete vehicle types if the GVWR is 4536 kg [10,000 lb] or less:

- Incomplete Transit Van or Wagon
- Chassis Cab or Cutaway

This vehicle, when completed, will conform to Standard 212 Windshield Mounting, and Standard 219, Windshield Zone Intrusion, if:

- The following windshield system components, related structural components, and hardware, as installed by Ford Motor Company, are not removed, relocated, altered, or modified in any way except as specified in this manual:
 - Windshield and windshield mounting system
 - Cab and front end structural components including the roof, pillars, cowl, cowl reinforcements, hood, doors, fenders, hood restrictors and apron reinforcements, and unibody frame and frame reinforcements
 - Radio antenna and air cleaner assembly
 - Doors and hood mounting, hinging, and latching systems
 - Hood ornamentation
 - Bumper and bumper mounting system
- No alteration or modification made to the incomplete vehicle as manufactured by Ford Motor Company and no components or structure installed by a subsequent stage manufacturer results in any loss of windshield retention (as defined in Standard 212) or any penetration of the inner surface of the windshield or intrusion into the protected zone (as defined in Standard 219) when the vehicle is impacted in any manner specified by applicable provisions of Standard 212 or Standard 219.
- The completed vehicle's Unloaded Vehicle Weight does not exceed the value designated in Table F corresponding to the vehicle's model and wheelbase.

213 The statement below is applicable to all incomplete vehicle types:

Conformity with Standard 213, Child Restraint Systems, cannot be determined based upon the components supplied on the incomplete vehicle; accordingly Ford Motor Company makes no representation as to conformity with this Standard. Any child restraint system that is added or incorporated into the design of a designated seating position must conform to the requirements of this Standard.

214 The statements below are applicable to the following vehicle types if the GVWR is 4536 kg [10,000 lb] or less:

• **Incomplete Transit Van or Wagon**

This vehicle, when completed, will conform to Standard 214, Side Impact Protection, for occupants, if:

- No alterations, modifications, or replacements are made to the door, surrounding door structure, door hinges, door latches and strikers, or any attaching hardware as provided by Ford Motor Company.
- The Incomplete Transit Van or Wagon sheet metal structure is not modified.

Compliance to this Standard for side doors on the incomplete vehicle is shown in the following table:

Side Door FMVSS 214 Compliance		
Side Door Configuration	Glazed (Window)	Unglazed (No window)
Passenger side sliding door; All roof heights	Yes	No representation
Driver side sliding door; Medium/High roof Van	No representation	No representation
Hinged cargo doors; Low roof only	Yes	Yes

214 The statements below are applicable to the following vehicle types if the GVWR is 4536 kg [10,000 lb] or less:

• **Chassis Cab or Cutaway**

This vehicle, if equipped with both front doors as manufactured by Ford Motor Company when completed, will conform to Standard 214, Side Impact Protection, if:

- No alterations, modifications, or replacements are made to the door, surrounding door structure, the entire roof structure, door hinges, door latches and strikers, or any attaching hardware provided by Ford Motor Company.
- This vehicle, if equipped with a driver-side door only when completed, will conform to Standard 214, Side Impact Protection, for that door only if no alterations, modifications, or replacements are made to the door, surrounding door structure, the entire roof structure, door hinges and strikers, or any attaching hardware provided by Ford Motor Company.

Any side door and surrounding body structure added to this vehicle, if a designated seating position is less than 254 mm [10 in] inboard of that door, must conform to the requirements of this standard.

217 The statements below are applicable to the incomplete Transit Van or Wagon when completed as a bus (not school bus):

This vehicle, when completed, will conform to Standard 217, Bus Emergency Exits and Window Retention and Release, Section 5.1, if no alterations, modifications, or replacements are made to the doors, window glazing materials, window mounting systems, or the surrounding door structure as provided by Ford Motor Company. Ford Motor Company makes no representation as to compliance to any other portion of this Standard.

Any windows, doors, additional components, or emergency exits and required emergency exit labels added to this vehicle by the final stage manufacturer must meet the requirements of this Standard.

Note: Required emergency exit labels are not provided by Ford Motor Company on incomplete vehicles.

217 The statement below is applicable to the Transit Cutaway when completed as a bus (including school bus):

Conformity with Standard 217, Bus Emergency Exits and Window Retention and Release, cannot be determined based upon the components supplied on this incomplete vehicle; accordingly Ford Motor Company makes no representation as to conformity with this Standard other than that the front door windows will comply with the Section 5.1 requirements of this Standard if no modifications, alterations, or replacements are made to the window glazing materials, window mounting system, or the surrounding door structure as provided by Ford Motor Company.

217 Canadian Requirements:

The preceding statements for FMVSS 217, Bus Emergency Exits and Window Retention and Release, are appropriate compliance representations for CMVSS 217, Bus Emergency Exit and Window Retention and Release, when a vehicle is completed as a Bus (not School Bus) and if this incomplete vehicle was manufactured for sale or use in Canada. In such a case, CMVSS 217 paragraphs (2) and (2.1) are substituted for the reference to FMVSS 217 Section 5.1. When a Transit Cutaway is completed as a School Bus, Ford Motor Company makes no representation as to conformity to this Standard.

219 See combined statements under “212/219” for all vehicle types.

225 The statement below is applicable to buses with a GVWR of 4536 kg [10,000 lb] or less:

This vehicle, when completed, will conform to Standard 225, Child Restraint Anchorage Systems, if:

No alterations are made to the front passenger seat tether anchorages and access to the anchorages is not restricted, and no alterations are made to the seat assemblies, their anchorages, the floor pan, or floor pan reinforcements, and no seats are added.

Because the addition of seats would change compliance with this Standard, Ford Motor Company makes no representations as to conformity with this Standard for any vehicle that has seats added by intermediate or final stage manufacturers.

301 Note

The terms “body” or “body structure”, in the 301 statements that follow include not only the basic body or body structure but also any equipment permanently attached to that body or body structure installed by the subsequent stage manufacturer.

301 INFORMATION

The Unloaded Vehicle Weight of the completed vehicle may significantly affect its capability to meet the requirements of FMVSS 301. Completed vehicles manufactured by Ford Motor Company that are tested to demonstrate compliance with FMVSS 301 are loaded pursuant to S7.1.6 of the Standard. The test weights of these vehicles comprise the Unloaded Vehicle Weights including the weights of all available regular production options plus the loads specified by S7.1.6. These test weights are less than the respective designated Gross Vehicle Weight Ratings. In addition to the specific statements below, refer to the Design Recommendation section of the *Ford Truck Body Builders Layout Book* for Fuel System information to assist in designing fuel systems and the Second Unit Body Attachment recommendations for information to aid in designing second unit bodies and their attachments to be compatible with Transit vehicles.

301 The statements below are applicable to the following incomplete vehicle types if the vehicle GVWR is 4536 kg [10,000 lb] or less:

• Incomplete Transit Van or Wagon

This vehicle, when completed, will conform to Standard 301, Fuel System Integrity, if:

- The following fuel system components, as installed by Ford Motor Company, are not removed, relocated, altered, or modified in any way:
 - Fuel tank and attachment hardware, including sending unit, vapor valve, fuel tank shield and in-tank electric fuel pump (all gasoline engine applications), and OBD II pressure transducer
 - Easy Fuel® capless fuel filler, pipe(s), hose(s), any provided protective wrap, and attachment hardware
 - Fuel lines, routing, and attachments
 - Vapor lines and carbon canister (gasoline engine only)
 - Fuel pump
 - Fuel filter
- No other alteration or modification made to the incomplete vehicle, as manufactured by Ford Motor Company, and no other components or structure installed by a subsequent stage manufacturer result in penetration (especially added fasteners pointed downward towards the fuel tank or other fuel system components), separation, or other damage to the fuel system or any portion thereof when the vehicle is tested in any manner specified by applicable provisions of Standard 301.
- The completed vehicle's Unloaded Vehicle Weight does not exceed the value designated in Table F for Transit corresponding to the incomplete vehicle's model and wheelbase.

NOTE: Nylon Fuel Tubes

Some incomplete vehicles are equipped with nylon fuel tubes. In the event that the tubes require repair or replacement, only Ford approved parts or their equivalents should be used.

TABLE F MAXIMUM UNLOADED VEHICLE WEIGHT (UVW) FOR INCOMPLETE VEHICLES WHEN COMPLETED ⁽¹⁾ (Does Not Apply To Vehicles Over 4536 kg [10,000 lb] GVWR)		
Model	Wheelbase mm [inches]	Maximum Unloaded Vehicle Weights kg [pounds]
Van & Wagon	3335 [129]	3765 [8300]
	3759 [148]	
Chassis Cab & Cutaway	3505 [138]	3856 [8500]
	3962 [156]	
	4521 [178]	

(1) Maximum unloaded vehicle weight values shown in this table are limits for purposes of F/CMVSS conformity only. See Emission Certification information of this manual for possible additional weight restrictions to meet emission requirements.

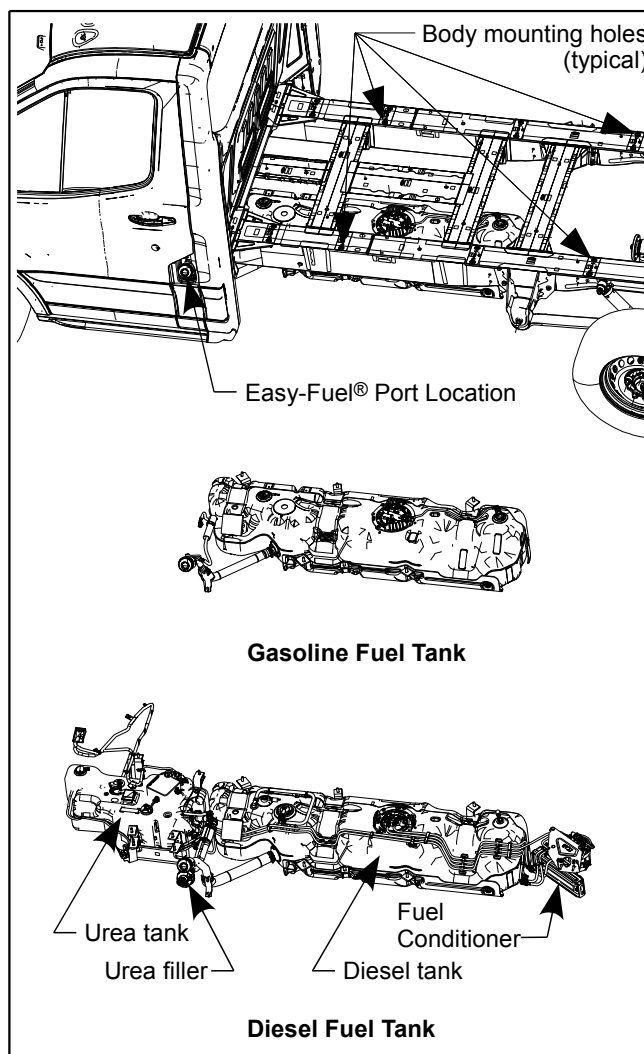


FIGURE D – TRANSIT FUEL TANKS

301 (Continued Next Page)

301 The statements below are applicable to the following incomplete vehicle types if the vehicle GVWR is 4536 kg [10,000 lb] or less:

- **Chassis Cab or Cutaway**

This vehicle, when completed, will conform to Standard 301, Fuel System Integrity, if:

- The following fuel system components, as installed by Ford Motor Company, are not removed, relocated, altered, or modified in any way except as specified in the following representations:
 - Fuel tank and attachment hardware, including sending unit, vapor valve, fuel tank shield, fuel tank surface patch, pressure transducer and in-tank electric fuel pump
 - Easy Fuel® capless fuel filler, pipe(s), hose(s), any provided protective wrap, and attachment hardware
 - Fuel lines, routing, and attachments
 - Vapor lines and carbon canister (gasoline engine only)
 - Fuel pump
 - Fuel filter
 - Urea storage and delivery system (diesel engine only)
- The body installed by a subsequent stage manufacturer and the Ford installed fuel system components are located and mounted as follows:
 - The body is hard-mounted securely to all available inboard and outboard frame hole locations, except no fasteners are required in the left-hand rail inboard holes alongside the fuel tank, using Ford recommended 25mm head-size flange M10 Grade 10.9 W520113-S442 nuts & W703776-S442 bolts, or equivalent, and is so designed that when the completed vehicle is tested in any manner specified by applicable provisions of Standard 301:
 - a) body components and attaching hardware do not contact any fuel system component at any time, and
 - b) body system deformation or movement relative to the frame does not cause any fuel system component to be penetrated, disconnected, or otherwise damaged.
 - The rear end of the body (excluding the rear bumper) installed by a subsequent stage manufacturer does not extend beyond (overhang) the rear edge of the vehicle frame or frame extension. Any extension of the vehicle frame must be constructed and attached so as to perform as a continuation of the vehicle frame when the completed vehicle is tested in any manner specified by applicable provisions of Standard 301.
- No other alteration or modification made to the incomplete vehicle as manufactured by Ford Motor Company and no other components or structure installed by a subsequent stage manufacturer result in penetration, separation, or other damage to the fuel system or any portion thereof when the vehicle is tested in any manner specified by applicable provisions of Standard 301.
- The completed vehicle's Unloaded Vehicle Weight does not exceed the value designated in Table F corresponding to the model and wheelbase.

301 Canadian Requirements:

The Canadian loading requirements are provided in Section 3.3 of **Test Method 301 Fuel System Integrity**, revised: February 8, 2001, and should be substituted wherever references to FMVSS 301, Section 7.1.6, loading requirements have been made in the statements of conformity for Standard 301.

301.1 The statement below is applicable to all incomplete vehicle types:

This incomplete vehicle does not comply with CMVSS Standard 301.1, LPG Fuel System Integrity. Ford Motor Company makes no representation as to conformity with this Standard.

301.2 The statement below is applicable to all incomplete vehicle types:

This incomplete vehicle does not comply with CMVSS Standard 301.2, CNG Fuel System Integrity. Ford Motor Company makes no representation as to conformity with this Standard.

302 The statement below is applicable to all incomplete vehicle types:

This vehicle, when completed, will conform with Standard 302, Flammability of Interior Materials, if no alterations are made to those components covered by the Standard which are installed by Ford Motor Company and all components covered by Standard 302, which are added to the incomplete vehicle by subsequent stage manufacturers meet the flammability requirements of the Standard.

303 U.S. Requirements:

The statement below is applicable to any School Bus Prep Package regardless of GVWR and to any other incomplete vehicle type if the GVWR is 4536 kg [10,000 lb] or less:

This incomplete vehicle does not comply with Standard 303, Fuel System Integrity of Compressed Natural Gas Vehicles. Ford Motor Company makes no representation as to conformity with this Standard.

304 U.S. Requirements:

The statement below is applicable to all incomplete vehicle types:

This incomplete vehicle does not comply with Standard 304, Compressed Natural Gas Fuel Container Integrity. Ford Motor Company makes no representation as to conformity with this Standard.

305 The statement below is applicable to all incomplete vehicle types if the GVWR is 4536 kg [10,000 lb] or less:

This incomplete vehicle does not comply with Standard 305, Electric-Powered Vehicles: Electrolyte Spillage and Electrical Shock Protection; Ford Motor Company makes no representation as to conformity with this Standard

403 The statement below is applicable to all incomplete vehicle types:

This incomplete vehicle does not comply with Standard 403, Platform Lift Systems for Motor Vehicles. Ford Motor Company makes no representation as to conformity with this Standard.

404 The statement below is applicable to all incomplete vehicle types:

This incomplete vehicle does not comply with Standard 404, Platform Lift Installations in Motor Vehicles. Ford Motor Company makes no representation as to conformity with this Standard.

Part Parts and Accessories Necessary for Safe 393.67 Operation – Liquid Fuel Tanks

The fuel tank provided on the Transit Van, Wagon, Chassis Cab and Cutaway is the same fuel tank used on under 4536 kg [10,000 lb] Transit vehicles that require compliance to F/CMVSS 301, therefore, it conforms to Part 393.67, Parts and Accessories Necessary for Safe Operation – Liquid Fuel Tanks, if the fuel tank as provided by Ford Motor Company is not altered on the completed vehicle.

Part U.S. Requirements:

565 This vehicle, when completed, will conform to Part 565 Vehicle Identification Number, if the vehicle identification number printed on the label affixed to the cover of this manual is mounted and displayed in accordance with the requirements of this Standard.

Part The statement below is applicable to all 565.4 incomplete vehicle types:

This vehicle, when completed, will conform to Part 565.4, Vehicle Identification Number, if the Vehicle Identification Number tag mounted on the top of the instrument panel is not removed, altered, or modified and no actions are taken by the subsequent stage manufacturer that would obstruct the readability of the Vehicle Identification Number tag mounted on the top of the instrument panel.

Part 567 / CMVSR Section 6.6

The statement below is applicable to all incomplete vehicle types:

This incomplete vehicle does not comply with the intermediate and final stage manufacturer requirements of Part 567 - Certification, nor the Canadian Motor Vehicle Safety Regulations, Section 6.6 – Final-stage Manufacturer's Compliance Label. It is the responsibility of the intermediate and final stage manufacturers to provide additional labeling to meet these requirements. Ford Motor Company makes no representation as to conformity.

1106 Canadian Requirements:

The statements below are applicable to the following incomplete vehicle types with GVW ratings of 4536 kg [10,000 lb] or less:

- **Incomplete Transit Van or Wagon**
- **Chassis Cab or Cutaway**

These vehicles, when completed, will conform to Standard 1106, Noise Emissions, Section 2, if noise control devices or elements of design are not modified removed or rendered inoperative. Examples of such devices or elements of design are:

- Fender apron absorbers, fender apron barriers, underbody noise shields and acoustic absorption material.
- Engine speed governor or electronic control intended to control maximum engine speed.
- Engine air duct, air intake choke or silencer, air cleaner and air cleaner element.
- Exhaust system components including the catalyst inlet pipe, muffler, outlet pipe, resonator and diffuser.
- Engine cooling fan and cooling fan clutch.

1106 Canadian Requirements:

The statements below are applicable to the following incomplete vehicle types with GVW ratings of more than 4536 kg [10,000 lb]:

- **Incomplete Transit Van or Wagon**
- **Chassis Cab or Cutaway**

These vehicles, when completed, will conform to Standard 1106, Noise Emissions, Section 4, if noise control devices or elements of design are not modified removed or rendered inoperative. Examples of such devices or elements of design are:

- Fender apron absorbers, fender apron barriers, underbody noise shields and acoustic absorption material.
- Engine speed governor or electronic control intended to control maximum engine speed.
- Engine air duct, air intake choke or silencer, air cleaner and air cleaner element.
- Exhaust system components including the catalyst inlet pipe, muffler, outlet pipe, resonator and diffuser.
- Engine cooling fan and cooling fan clutch.

CANADIAN VEHICLES

(Vehicles to be completed for sale or use in Canada)

VEHICLE IDENTIFICATION

Refer to the “Vehicle Description” section of this manual for additional information. Incomplete vehicles produced by Ford Motor Company require, for certain applications, optional Prep Packages or trim codes which are listed on the Completed Vehicle Types charts.

DAYTIME RUNNING LAMP (DRL)

Compliance representations for CMVSS 108, Lighting and CMVSS 108.1, Headlamps, are in the “Statements of Conformity” section of this manual.

CANADIAN RADIO FREQUENCY INTERFERENCE (RFI) INFORMATION

All vehicles powered by spark ignition engines (e.g.: gasoline, natural gas, or propane engines) and manufactured in Canada or for sale or use in Canada are subject to the Canadian “Regulations for the Control of Interference to Radio Reception” per Interference-Causing Equipment Standard (ICES-002) and applicable test method according to “CAN/CSA-C108.4-M06”. Violation of these regulations is punishable by fine or imprisonment. This Ford-built incomplete vehicle (if other than a Basic (Stripped) Chassis) was designed and manufactured to be capable of meeting the regulatory requirements or such modifications thereof as may have been authorized by the Department of Communications. However, because Ford Motor Company has no control over how this incomplete vehicle is completed by subsequent stage manufacturers, Ford Motor Company does not represent that the completed vehicle incorporating the Ford-built components will comply with applicable requirements.

The following information is supplied to subsequent stage manufacturers to help them avoid increasing the RFI emissions of this vehicle in the course of completing it.

For any completed vehicle, additional measures may be needed to adequately suppress RFI emissions. Affected components could include spark plugs, ignition wires, ignition coils, ground straps, ignition component shields, accessory drive belts, instrument voltage regulator suppressor assembly, and ignition coil suppressor assembly.

More specifically:

- All components required to suppress RFI emissions, which are removed during service, repair, or completion of the vehicle, must be reinstalled in the manner in which they were installed by Ford Motor Company.
- Shields on ignition coils must remain installed.
- Replacement spark plugs, ignition wires, and ignition coils must be equivalent in their RFI suppression properties to original equipment.
- Electrical grounds on all components must be retained.
- Metallic components installed on the body or chassis must be grounded to the chassis.
- Electrical circuits added to the vehicle must not be installed near the high voltage ignition components.
- Only “static conductive” accessory drive belts should be used. Fan, water pump, power steering, and other belts should be of the OEM type or equivalent that will not build up a static electrical charge.
- Engine compartment wiring must not be rerouted in any manner.
- The Powertrain Control Module (PCM) must not be relocated from the position as installed by Ford Motor Company.

Additional guidance for installing two-way mobile radios can be found via the web at www.fordemc.com/docs/download/Mobile_Radio_Guide.pdf.

EMISSION CERTIFICATION INFORMATION

CAUTION:

U.S.:

Vehicles are emission certified for registration in specific areas of the United States. For example, **vehicles certified and labeled for sale in California can not be sold in the states that require Federally certified vehicles and vehicles certified to Federal standards can not be sold in states that require California certified vehicles.** It is the subsequent stage manufacturer's responsibility to purchase a vehicle certified for the state/area in which the vehicle will be sold. EPA has stated that under certain circumstances they will not enforce these requirements. For further guidance consult EPA's "policy on cross border sales of California vehicles."

CANADA:

If the completed vehicle is intended for sale or use in Canada, the intermediate or final stage manufacturer must insure that the incomplete vehicle is ordered through a Canadian dealer or is ordered from Ford Motor Company with the appropriate Canadian market option code. Failure to do so may result in an incomplete vehicle that is built with an emissions system and labeling that are not in compliance with the requirements of the Canadian Environmental Protection Act.

IMPORTANT:

It is the responsibility of the body builder, installer, or subsequent stage manufacturer to ensure that the maximum completed vehicle curb weight and frontal area specified by Ford Motor Company are not exceeded. If these restrictions are exceeded, or if the vehicle is modified such that it will not comply with applicable emission standards throughout its useful life, the body builder, installer, or subsequent stage manufacturer will be considered a manufacturer for purposes of complying with U.S. Federal, California, or Canadian exhaust and evaporative emission requirements, and Federal fuel economy standards, labeling, and certain other requirements.

IMPORTANT:

For purposes of Government Regulation, a body builder, installer, or any subsequent manufacturer may be considered a manufacturer.

EMISSIONS CLASSIFICATION

Vehicles ordered with the RV Prep package on LWB (12/15 passenger) and LWB-E "Jumbo" (15 passenger) models of the Transit Wagon are designed for configurations that seat more than 9 passengers rearward of the driver's seat. These vehicles are classified as Heavy-Duty trucks, not Medium Duty Passenger Vehicles (MDPVs). As defined in 40 CFR 86.1803-01, MDPVs do not include vehicles "designed for more than 9 persons in seating rearward of the driver's seat."

VEHICLE EMISSION CONTROL INFORMATION LABEL

To meet United States Environmental Protection Agency regulations, the Vehicle Emission Control Information (VECI) label must be affixed in the engine compartment in a location that is readily visible after installation and in such a manner that it cannot be removed without destroying or defacing the label. The label shall not be affixed to any equipment that is easily detached from the vehicle.

When the VECI label is supplied, but not attached to the vehicle, it must be permanently mounted in a readily visible location to meet the preceding requirements. In addition, whether the label is already affixed or to be affixed, no components shall be installed which visibly obscure the label in any way that fails to satisfy the visibility requirements described in the California Emission Control Label Specifications. For Canadian requirements consult Section 1100 8 (1) (d) (i), (ii), & (iii), as applicable.

FRONTAL AREA AND WEIGHT RESTRICTIONS

Completed 3.2L diesel, 3.5 EcoBoost and 3.7L Vans and Wagons certified to California > 3856 kg [8500 lb] Medium Duty Vehicle (MDV) protocol may have curb weight and frontal area restrictions shown on the VECI label, which is located in the engine compartment. Modifiers that add weight to a vehicle or increase the frontal area of a MDV vehicle, prior to sale and delivery to the ultimate purchaser, may be required to re-certify the vehicle for compliance with applicable Federal or California emission standards.

Some heavy-duty incomplete vehicles are certified using chassis certification protocol and will require vehicle weight and frontal area restrictions (to retain emission certification). If your vehicle is affected, the frontal area and unloaded vehicle weight information will be found on the VECI label.

Incomplete vehicles with engines certified using heavy-duty engine protocol are not limited by weight and frontal area restriction for exhaust emissions.

It is important that the final stage manufacturer observe vehicle restrictions from vehicle safety requirements, etc., which are located elsewhere in this manual.

Chassis Cab and Cutaway vehicles have the following Frontal Area and Maximum Curb Weight restrictions:

3.2L Diesel –

≤10,000 lb: 60 ft², max 8550 lb MCW
>10,000 lb: 72 ft², max 9140 lb MCW

3.7L Gasoline –

SRW:
55 ft², max 6950 lb MCW

DRW:
≤10,000 lb, 60 ft², max 7550 lb MCW
>10,000 lb, 66 ft², max 8140 lb MCW

Note: Frontal area requirement includes the cab and second unit body (SUB). The completed vehicle must meet Maximum UVW weight for a GVWR of 4536 kg [10,000 lb] or less.

HIGH ALTITUDE REQUIREMENTS

United States Environmental Protection Agency regulations do not contain unique emission certification requirements for trucks that will be sold or delivered to customers for principal use above 1,219 m [4,000 ft].

EMISSION CONTROL HARDWARE

Any body builder, installer, or subsequent stage manufacturer must also assure that all emission control hardware furnished with incomplete vehicles is on the vehicle and is operational and that applicable instructions for incorporating such hardware into the completed vehicle's electrical or mechanical systems are strictly followed.

Further, to avoid any question of certification coverage, approval of any modification or use of an engine or vehicle which may alter or render inoperative any of the emission control components must be obtained from the United States Environmental Protection Agency by the manufacturer making such modification or use prior to distribution, sale, offering for sale, introduction, or delivery for introduction of the subject vehicle into U.S. commerce. Additionally, the manufacturer making such modification or use must obtain approval from the California Air Resources Board if the new vehicle will be delivered for sale or use in the State of California.

UNLEADED GASOLINE LABEL

Regulations no longer require the manufacturer to affix permanent labels reading "Unleaded Gasoline Only" or "Unleaded Fuel Only" to vehicles destined for sale in the United States or Canada. Such labels may however be required for vehicles sold into other markets. It is the responsibility of the body builder, installer, or any subsequent manufacturer to properly label vehicles for the market in which they are sold.

EXTERIOR NOISE

New vehicles which have a gross vehicle weight rating in excess of 4536 kg [10,000 lb], include a partially or wholly enclosed operator's compartment, and are manufactured for use in the United States, must comply with U.S. Environmental Protection Agency's exterior noise emission regulations for medium and heavy trucks (40 CFR Part 205, Subpart B) which establish a noise emission limit of 80 dB (A).

TAMPERING WITH NOISE CONTROLS

Federal law prohibits the removal or rendering inoperative by any person, other than for purposes of maintenance, repair, or replacement, of any device or element of design incorporated into such vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use. Federal Law also prohibits the use of such vehicle after such device or element of design has been removed or rendered inoperative by any person.

Among those acts presumed to constitute tampering are the acts listed below:

- Removal of fender apron absorbers, fender apron barriers, underbody noise shields, or acoustical absorptive material.
- Removal of or rendering inoperative the engine speed governor so as to allow engine speed to exceed manufacturer's specifications.
- Removal or modification of air duct, air intake choke or silencer, air cleaner, or air cleaner element.
- Removal of, or rendering inoperative, exhaust system components including the catalyst inlet pipe, muffler, outlet pipe, resonator, or diffuser.
- Removal of the fan shroud. Removal of or rendering inoperative the fan clutch.

New vehicles manufactured for sale in Canada must comply with applicable provisions of Canada Motor Vehicle Safety Standard 1106, Noise.

Additional noise emissions information is contained in the *Ford Truck Body Builders Layout Book*.

WARRANTY AND MAINTENANCE

A copy of the appropriate *Ford Truck Owners Guide and Warranty Guide* must be installed in every vehicle prior to sale to the ultimate purchaser in order to provide emission systems warranty information and maintenance schedules. It also provides, where required by EPA noise control regulations for vehicles having GVWR over 4536 kg [10,000 lb], noise emissions warranty information, instructions for maintenance, use, and repair of vehicle noise emission control systems, a maintenance record format, and list of prohibited tampering acts.

EVAPORATIVE EMISSIONS

All Federal light and heavy duty trucks and all California vehicles with gasoline engines are required to comply with evaporative emissions requirements established by the Environmental Protection Agency or the California Air Resources Board. Production fuel systems supplied on incomplete trucks manufactured by Ford Motor Company comply with these requirements. **If the subsequent stage manufacturer adds to or modifies the air intake system or fuel system in any manner, it becomes the responsibility of the modifier to assure compliance with the applicable regulations.** Refer to the Design Recommendation section of the *Ford Truck Body Builders Layout Book* for additional Fuel System Evaporative Emissions information.

MALFUNCTION INDICATOR LIGHT (MIL)

The "Malfunction Indicator Light" is used to indicate malfunctions of the engine's emission control system and certain powertrain emissions-related components. For all Transit incomplete vehicles, the MIL is Ford-installed and operational in the instrument panel.

The MIL must be located on the driver's-side instrument panel, be of sufficient illumination and location to be readily visible under all lighting conditions and shall be amber in color when illuminated. The MIL, when illuminated, shall display the phrase "Check Engine" or "Service Engine Soon". The word "Powertrain" may be substituted for "Engine" in the previous phrases. Alternatively, the ISO engine symbol may be substituted for the word "Engine" or for the entire phrase. This is a requirement for emission certification.

OZONE DEPLETING SUBSTANCE (ODS)

The Clean Air Act of 1990, Section 611 requires any product (i.e., completed vehicle) containing or manufactured with any Class I Ozone Depleting Substance on, or after May 15, 1993 must be identified with a "clearly and conspicuously attached label."

Ford Motor Company has eliminated Class I ODS from its manufacturing processes. All Ford Truck incomplete vehicles will not have Class I ODS content.

Manufacturers, including subsequent stage manufacturers, are required to label their products if the product, including any component (whether manufactured by that manufacturer or not), contains a Class I ODS or if the manufacturer used a Class I ODS in the manufacturing of the product. In the case where Ford Motor Company provides a label saying the incomplete vehicle contains a Class I ODS that information must be placed on the product warning label. (See EPA regulation on wording, placement, size, and combining labels.) In Canada consult the appropriate Provincial or Territorial Ministry of Environment.

CALIFORNIA FUEL VAPOR RECOVERY

California regulations require that the vehicle fuel systems be designed to accommodate a vapor recovery fueling nozzle including unobstructed access to the fill pipe. Fuel filler pipes as installed by Ford Motor Company will comply with the "Specifications For Fill Pipes and Openings of Motor Vehicle Fuel Tanks" referenced in Title 13 California Administrative Code provided no part of the aftermarket body, as installed, intrudes within a 254 mm [10 in] radius cylinder centered on the fuel filler port, with its axis parallel to the ground, starting at the outer-most surface of the Ford supplied fuel filler housing and projecting outward away from the body.

CALIFORNIA MOTOR VEHICLE EMISSION CONTROL LABEL

To meet California emission certification regulations, the Vehicle Emission Control Information (VECI) label must be welded, riveted, or otherwise permanently attached to an area within the engine compartment or to the engine in such a way that it will be readily visible to the average person after installation of the engine in a vehicle. In selecting an acceptable location, the manufacturer shall consider the possibility of accidental damage (e.g., possibility of tools or sharp instruments coming in contact with the label). The label shall be affixed in such a manner that it cannot be removed without being destroyed or defaced, and shall not be affixed to any part which is likely to be replaced during the vehicle's useful life. For motor vehicles rated at 6350 kg [14,000 lb] GVWR or less, the label shall not be affixed to any equipment which is easily detached from the vehicle. As used in these specifications, readily visible to the average person shall mean that the label shall be readable from a distance of 460 mm [18 in] without any obstructions from vehicle or engine parts (including all manufacturer available optional equipment), except for flexible parts, (e.g., vacuum hoses, ignition wires). Alternately, information required by these specifications to be printed on the label shall be no smaller than 8 point type size provided that no vehicle or engine parts (including all manufacturer available optional equipment), except for flexible parts that can be moved out of the way without disconnection, obstruct the label.

Completed vehicles for retail sale in California require a machine-readable Vehicle Identification Number (VIN) bar-code label made of paper, plastic, metal, or other permanent material which shall be affixed in a readily visible location to either the door-latch post next to the driver's seating position, the door edge that meets this door-latch post, or above the instrument panel in a location clearly visible through the lower left corner of the windshield. All incomplete vehicles will conform to this standard.

For the VECI and VIN labels, sufficient clearance shall be provided to use a non-contact bar-code Reading Wand. For the VECI label, the label and any adhesives used shall be designed to withstand typical vehicle environment conditions in the area where the label is attached for the vehicle's total expected life. Typical vehicle environmental conditions shall include, but are not limited to, exposure to engine lubricants and coolants (e.g., gasoline, motor oil, brake fluids, water, ethylene glycol), under hood temperatures, steam cleaning, and paints or paint solvents.

RADIO FREQUENCY INTERFERENCE (RFI)

The ignition system on your vehicle (if other than a Basic (Stripped) Chassis) has been designed to be capable of compliance with RFI requirements established by the Canadian government. However, because Ford Motor Company has no control over how an incomplete vehicle is completed by subsequent stage manufacturers, Ford Motor Company does not represent that the completed vehicle incorporating the Ford-built components will comply with those requirements. Any ignition system component (i.e.: spark plugs, ignition wiring, coil suppressor assembly, etc.) that is replaced should be replaced by the same Ford Motor Company part number or equivalent to maintain RFI suppression.

While there are currently no RFI regulations in the United States specifically applicable to automotive ignition systems, all Ford Motor Company trucks built with an ignition system use the same or equivalent components to those supplied on Canadian vehicles.

Ford Motor Company recommends that all ignition system service be performed at a Ford authorized service facility to help hold RFI emissions levels to a minimum.

Additional RFI information is contained in the "Canadian Vehicles" section of this manual.

Devices that emit radio frequency (RF) energy such as AM/FM radios, mobile telecommunications systems (two-way radios, telephones), and radio controlled security systems are subject to the rules and regulations of the Federal Communications Commission (FCC), including 47 CFR Parts 2 and 15. Any such system installed in a vehicle should comply with those rules and should be installed only by a qualified technician. In addition, to ensure continued compliance with the FCC's regulations, RF devices must not be modified or changed in a manner not expressly approved by Ford Motor Company Mobile Communication Systems. RF devices particularly, if not properly installed, may adversely affect the operation of the vehicle. For example, such systems when operated may cause the engine to stumble or stall. In addition, such systems themselves may be damaged or their operation affected by the operation of the vehicle. (Citizens Band [CB] transceivers, garage door openers, and other transmitters whose power output is 5 watts or less, ordinarily will NOT affect vehicle operation.)

Because Ford Motor Company has no control over the operation or manufacture of such systems or their installation, Ford Motor Company cannot assume responsibility for any adverse effects or damage if this equipment is used.

Additional guidance for installing two-way mobile radios can be found via the web at www.fordemc.com/docs/download/Mobile_Radio_Guide.pdf.

SUPPLEMENTS

REFERENCE INFORMATION

FORD TRUCK BODY BUILDERS LAYOUT BOOK

Throughout this manual you will find references to information found in the Ford Truck Body Builders Layout Book. Additional Design Recommendations and specifications are also provided to assist subsequent stage manufacturers in completing chassis cab and incomplete vehicles. The Ford Truck Body Builders Layout Book can be accessed via the web at www.fleet.ford.com/truckbbas under the "Publications" tab.

FORD SERVICE PUBLICATIONS

Many Ford Service Publications pertain to specific Model Year and vehicle types. Ford Service Publications are available by subscription via the web at www.motorcraft.com. The following publications are a few of many manuals which are available from Helm Incorporated; call: 1-800-782-4356

- Ford Truck Shop Manuals
- Ford Towing Manual
- Ford Electrical & Vacuum Trouble Shooting Manual
- Ford Wiring Diagram

FORD TRUCK BODY BUILDER ADVISORY SERVICE The Ford Truck Body Builder Advisory Service may be consulted regarding information contained in this manual. Call toll free 877-840-4338 or e-mail via the web at www.fleet.ford.com/truckbbas under the "Contact Us" tab.



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