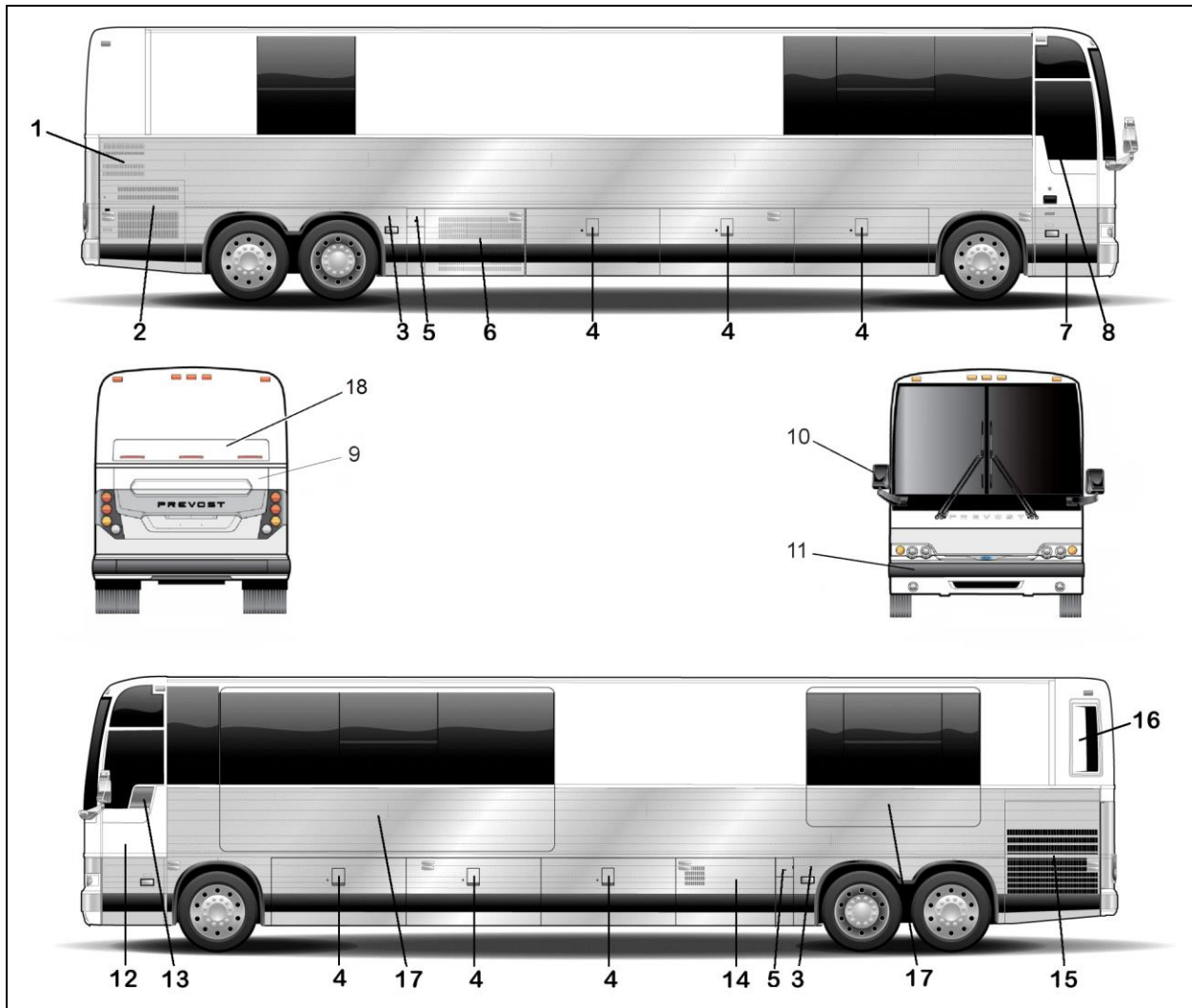


Vehicle Exterior 2-1

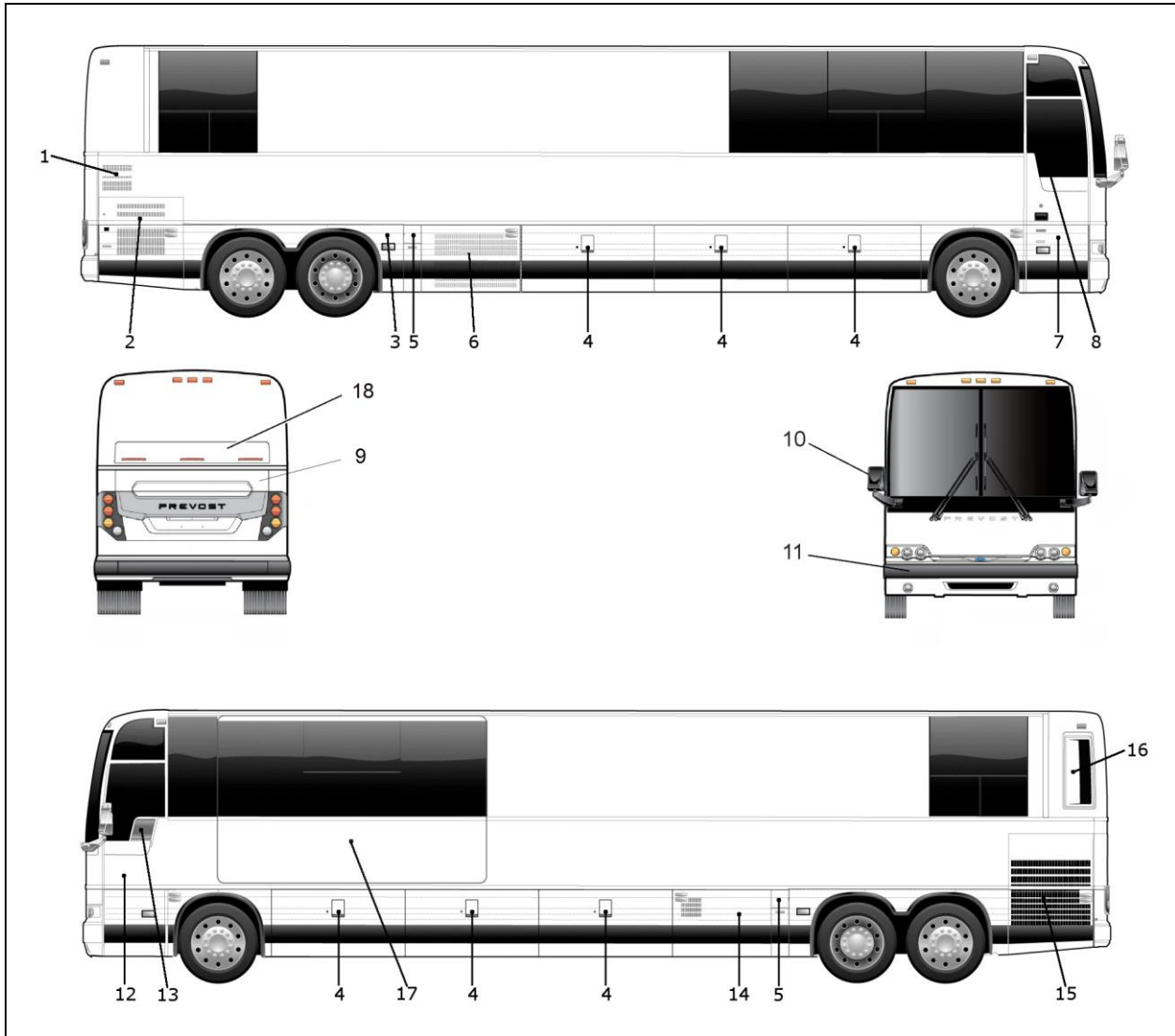
ENGINE COMPARTMENT COMPONENTS	4
ENGINE COMPARTMENT R.H. SIDE DOOR	5
ENGINE COMPARTMENT REAR DOOR	5
EXHAUST AFTERTREATMENT SYSTEM ACCESS DOOR	6
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2-2 Vehicle Exterior



X3-45 VIP MOTORHOME EXTERIOR VIEW (TYPICAL)

- | | |
|--------------------------------------|---|
| 1. Engine air intake | 10. Rear-view mirror |
| 2. Engine compartment R.H. side door | 11. Reclining bumper |
| 3. Hinged rear fender | 12. Front electrical and service compartment |
| 4. Baggage compartment | 13. Driver's power window |
| 5. Fuel filler door | 14. Evaporator or baggage compartment |
| 6. Condenser or baggage compartment | 15. Radiator door |
| 7. Entrance door | 16. Catalytic Converter access door |
| 8. Entrance door power window | 17. Slide-Out (Optional) |
| 9. Engine compartment rear door | 18. Exhaust Aftertreatment System access door |



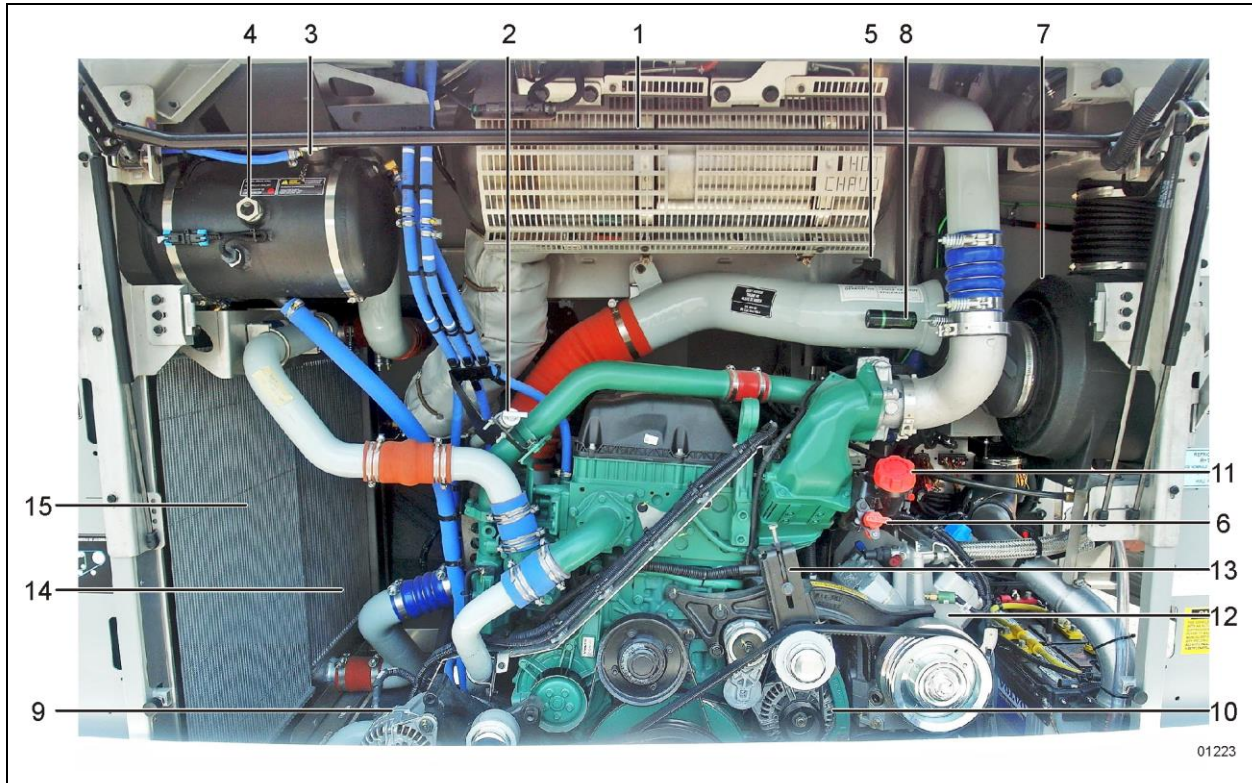
X3-45 VIP COMERCIAL USE VEHICLE TYPICAL EXTERIOR VIEW (FRONT SLIDE-OUT SHOWN)

18369

- | | |
|--------------------------------------|---|
| 1. Engine air intake | 10. Rear-view mirror |
| 2. Engine compartment R.H. side door | 11. Front reclining bumper |
| 3. Hinged rear fender | 12. Front electrical and service compartment |
| 4. Baggage compartment | 13. Driver's power window |
| 5. Fuel filler door | 14. Evaporator compartment |
| 6. Condenser compartment | 15. Radiator door |
| 7. Entrance door | 16. Catalytic Converter access door |
| 8. Entrance door power window | 17. Front Slide-Out (Optional) |
| 9. Engine compartment rear door | 18. Exhaust Aftertreatment System access door |

2-4 Vehicle Exterior

ENGINE COMPARTMENT COMPONENTS



ENGINE COMPARTMENT FEATURING VOLVO D13 ENGINE

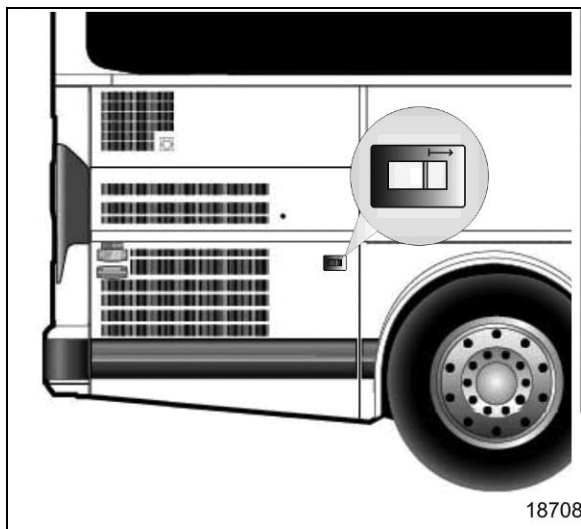
1. Diesel Oxidation Catalyst (DOC) & Diesel Particulate Filter (DPF) Assembly;
2. Transmission fluid dipstick;
3. Coolant fluid surge tank filler cap;
4. Coolant fluid surge tank sight glass;
5. Power steering fluid reservoir;
6. Engine oil dipstick;
7. Air filter;
8. Air filter restriction indicator;
9. Alternators, Road side;
10. Alternators, Curb side;
11. Engine oil filler tube;
12. Central A/C compressor;
13. Compressor belt tensioner;
14. Charge air cooler;
15. Radiator;

Most serviceable parts may be accessed through exterior compartments. There may be slight differences in the location of parts and in the configuration of compartments between models, depending on options.

ENGINE COMPARTMENT CURB SIDE DOOR

The engine compartment R.H. side door provides access to the following (if equipped):

- Engine compartment rear door release lever;
- Batteries;
- Battery equalizer;
- Rear Electrical Panel;
- Rear Junction Panel;
- Booster terminals;
- Primary air circuit fill valve and drain cock;
- Fuel filter/water separator;
- 110-120 volt connector.
- A/C Compressor.



ENGINE COMPARTMENT R.H. DOOR

This door can be locked or unlocked using the exterior compartment key or, if so equipped, by the central door locking system. To open, push sideways the small lever located between the marker lights.



ENGINE COMPARTMENT R.H. SIDE

18607_1

ENGINE COMPARTMENT REAR DOOR

To open the engine compartment rear door, open the engine compartment curb side door and pull the yellow handle located on the rear door, grab the side of the door in the middle, pull and lift the door.



OPENING THE ENGINE COMPARTMENT REAR DOOR FROM R.H. SIDE DOOR

18608



WARNING

Unless otherwise stated, do not run the engine when the engine compartment is open.

2-6 Vehicle Exterior

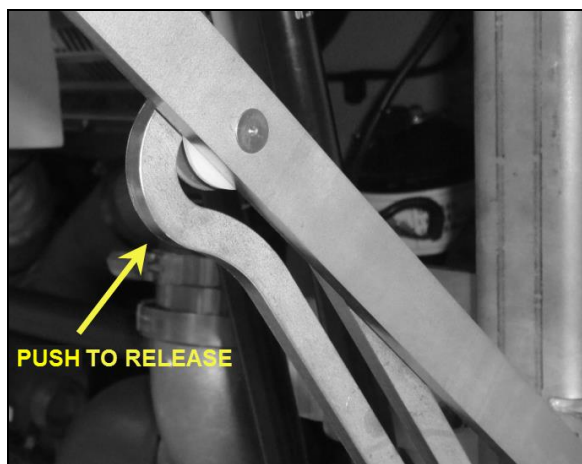
The door swings out to provide access to the following:

- Engine;
- Alternator(s);
- Compressor(s);
- Belt tension valve (refer to Care and Maintenance chapter);
- Engine starting selector (refer to Starting and Stopping Procedures chapter);
- Certification plates;
- Engine coolant surge tank;
- Air cleaner restriction indicator;
- Engine oil dipstick;
- Power steering fluid reserve tank;
- Automatic transmission oil dipstick and filler tube;
- Engine coolant filler cap.

NOTE

The engine compartment lights will turn on automatically when the engine door is opened.

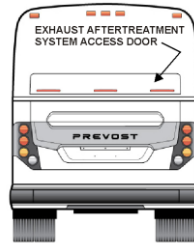
A catch holding the door open engages when the door is fully open. Release the catch before closing the door.



WARNING

Unless otherwise specified, do not run engine when the engine compartment rear door is open. Close the engine compartment rear door before starting the engine.

EXHAUST AFTERTREATMENT SYSTEM ACCESS DOOR



The engine door must be open before opening the exhaust aftertreatment system access door. To open the access door, lower the latch release lever, using a flat tip screwdriver.



To close the door, lower the door and push against the release lever spring to latch the door shut.

RADIATOR DOOR

The engine radiator door gives access to the radiator electrical fans and power distribution box.



RADIATOR DOOR

Open the engine compartment rear door to access the engine radiator door release handle

Radiator door release handle is located inside the left pillar (Arrow).



RADIATOR DOOR handle location

Pull handle towards you to release radiator door.



RADIATOR DOOR release handle



RADIATOR DOOR opened



WARNING

WHEN THE ENGINE IS RUNNING...

Cooling fans may activate at any moment.

Keep hands away from cooling fans or keep the radiator door closed.



WARNING

Cooling fans may be running when the engine is shut down in the following conditions:

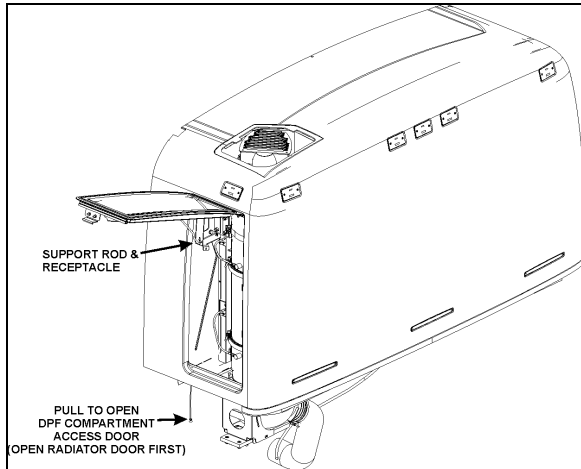
- If a High Exhaust Temperature condition exists (e.g. following regeneration). The CAC fans will keep running for a maximum of 15 minutes.
- During the electric **Motor Test Sequence**, the cooling fans will start running briefly.

2-8 Vehicle Exterior

SCR CONVERTER ACCESS DOOR

To gain access to the catalytic converter, open the radiator door first. At the top of the radiator compartment, pull the catch connecting rod to unlock the catalytic access door and lift the door open.

Hold the door open by inserting the support rod free end into the receptacle located on the left side of the catalytic converter.



ACCESS TO THE CATALYTIC CONVERTER

04018



WARNING

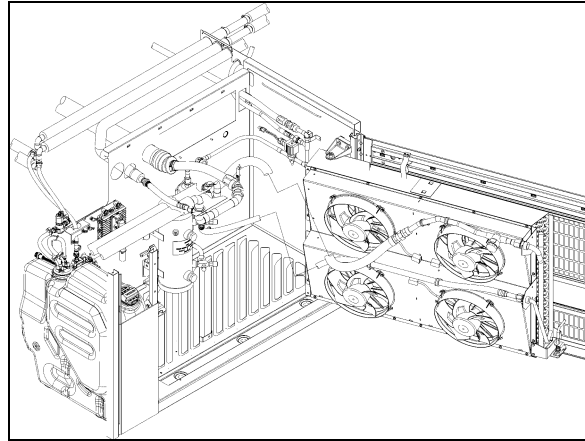
After inserting the support rod into the receptacle, make sure the rod supports the door securely from falling down on to your head or body.



WARNING

External and internal temperatures remain hot long after engine has been shutdown. Allow the Aftertreatment Device and DPF to cool before handling. Wear protective clothing and glove while servicing.

- Filter dryer and moisture indicator;
- Receiver tank.



CONDENSER COMPARTMENT (A/C)



CAUTION

Only the strap should be used to pull the condenser-fan assembly open. Damage to condenser could result if pulling by other means.



CONDENSER COMPARTMENT STRAP

CONDENSER COMPARTMENT (A/C)

Pull the release latch located inside the adjacent baggage compartment to open the condenser door.

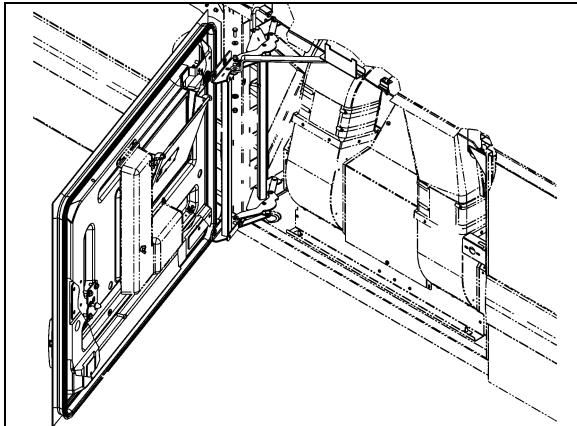
The condenser compartment provides access to the following:

- Diesel Exhaust Fluid (DEF) tank;
- Condenser;
- Condenser fans and motors;

EVAPORATOR COMPARTMENT

The HVAC (Heating, Ventilating and Air-Conditioning) evaporator blower and coolant heater compartment are located in this compartment.

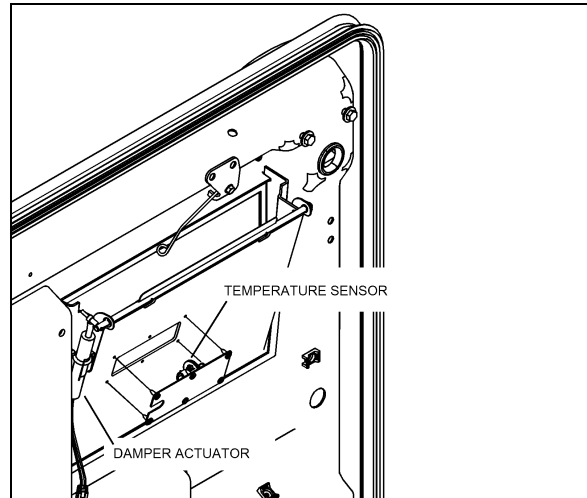
The compartment door release latch is located on the right side of the baggage compartment and to the left of the HVAC compartment door. Pull the release latch then slide your hand in the opening to depress the secondary lock and swing open.



EVAPORATOR COMPARTMENT



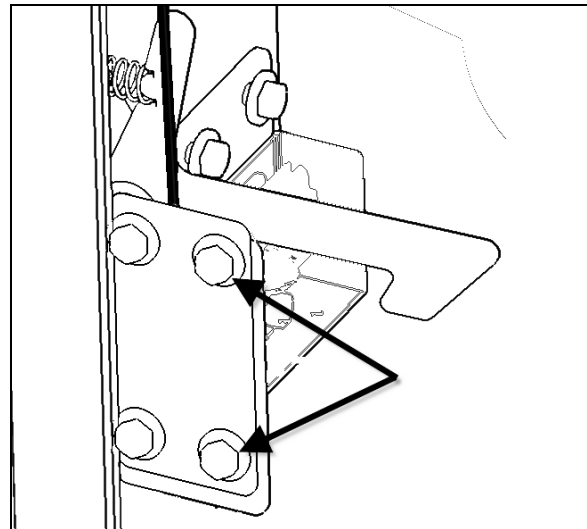
SECONDARY LOCK LEVER



RECIRCULATION DAMPER

22302_A

If the door release mechanism is damaged or ceases to function for any reason, the door can be released by removing these four screws on the fore wall of the fender side

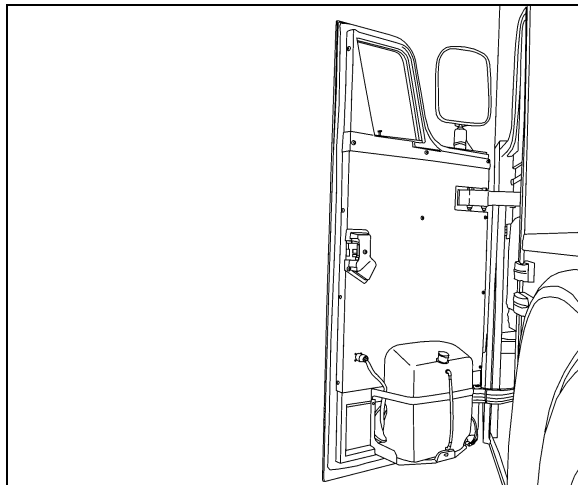


EVAPORATOR COMPARTMENT DOOR RELEASE

2-10 Vehicle Exterior

FRONT ELECTRICAL AND SERVICE COMPARTMENT

To open the front electrical and service compartment door, pull the rod inside the vehicle, next to the driver's power window or use the key to open from outside the vehicle. The front electrical and service compartment provides access to the following:



FRONT SERVICE COMPARTMENT DOOR 18381

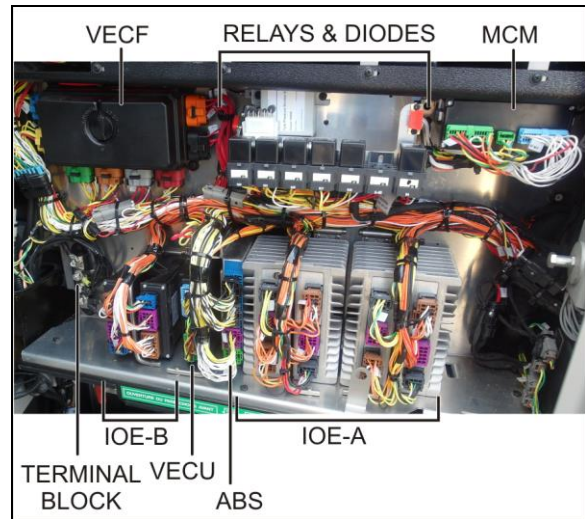
- Front terminal block;
- VECU;
- Vehicle Electrical Center Front (VECF) and Multiplex Modules;
- Master Control Module (MCM);
- Keyless module;
- Relays and diodes;
- ABS Electronic Control Unit (ECU)
- IOE-B Multiplex Modules;
- IOE-A Multiplex Modules;

The lower section of the front service compartment provides access to the following:

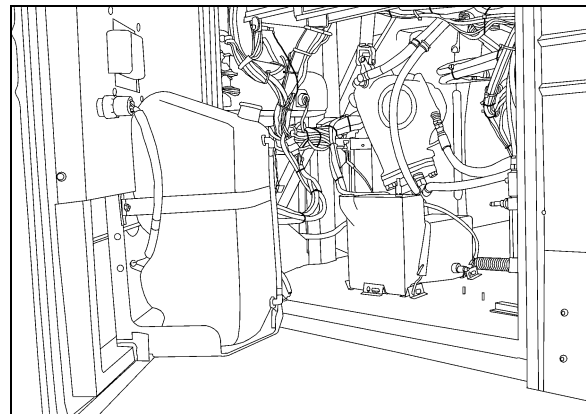
- Windshield washer reservoir & headlights washer reservoir;
- Accessory system fill valve;
- Accessory air tank drain valve;

This compartment door can be locked/unlocked using the exterior compartment key.

The light in the front electric & service compartment turns *ON* automatically when the door is opened.

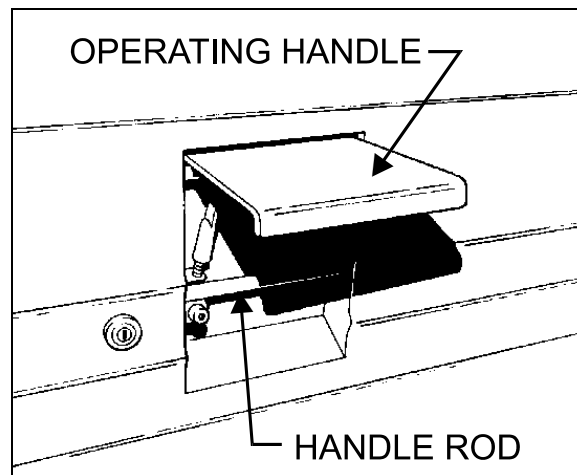


FRONT ELECTRICAL COMPARTMENT (TYPICAL) 06779



FRONT SERVICE COMPARTMENT 06532

BAGGAGE COMPARTMENTS




BAGGAGE DOOR LOCK AND LEVER 18043


The baggage compartment doors of the "X" Series models provide 407 ft³ (11,53 m³) of storage capacity. The compartments can be locked or unlocked by using the exterior compartment key. Pull up operating handle to

release the latch, and then pull the door open. Pressurized cylinders assist the opening and closing of the baggage compartment doors and hold the doors open.

To close, pull the door down by the handle rod. Complete the closing of the door by returning the operating handle to its initial position.

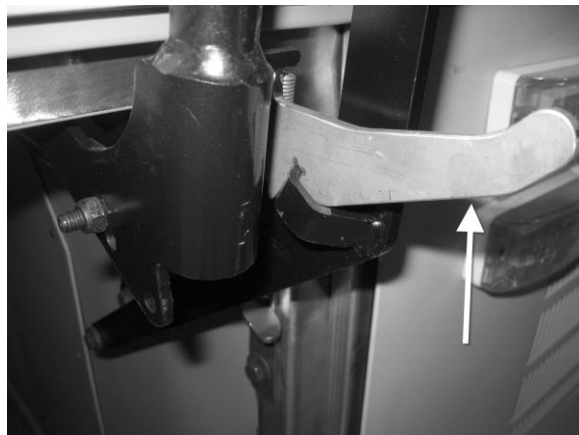
	<h3>CAUTION</h3>
<p>Do not slam shut the baggage compartment doors. Damage to door weather-stripping or locking mechanism could result.</p>	

Lights in the baggage compartments turn ON automatically when the door is opened.

	<h3>WARNING</h3>
<p>To avoid injury, keep hands clear of baggage compartment door edge and door frame when closing.</p>	

<h3>NOTE</h3>
<p>To prevent theft and vandalism, always lock the baggage compartment doors before leaving the vehicle unattended.</p>

<h3>NOTE</h3>
<p>For safety, open the door until the catch holds the door open. Lift lever to release.</p>



BAGGAGE DOOR CATCH


18612

<h3>NOTE</h3>
<p>The baggage compartment doors can be locked/unlocked from the driver's position by the optional central locking system. The switch is on the L.H. control panel. Refer to "Controls</p>

& Instruments" chapter.

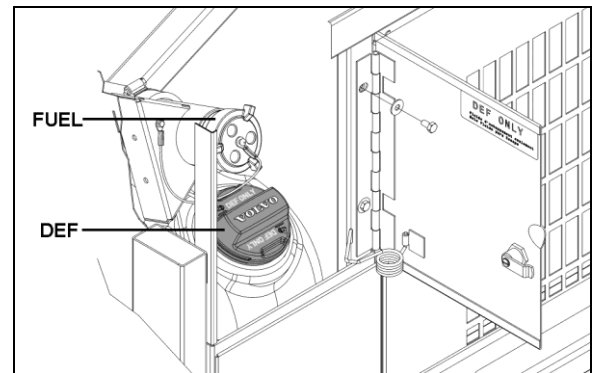
RECLINING BUMPER COMPARTMENT

The front bumper can be tilted downward to give access to the bumper compartment. Pull the release handle located inside front service compartment to unlock. Tilt down the entire bumper assembly to access the compartment. Push the bumper back up firmly in place to lock in position.

	<h3>WARNING</h3>
<p>The compartment behind the bumper is not designed for storage. Never store loose objects in this compartment since they can interfere with the steering linkage mechanism. Use care when opening or closing the reclining bumper compartment to prevent personal injury.</p>	

FUEL AND DIESEL EXHAUST FLUID (DEF) FILLER DOOR

The fuel and Diesel Exhaust Fluid (DEF) filler door is located on the L.H. side of the coach providing easy filling. The vehicle is also equipped with a R.H. door with fuel filler only. A spring keeps the doors either open or shut. A key is provided for unlocking the doors if the option was chosen.



FUEL & DEF FILLER DOOR ON L.H SIDE

<h3>NOTE</h3>
<p>Provided the vehicle is parked on level ground, an automatic nozzle will automatically shut off when tank is approximately 95% full</p>

2-12 Vehicle Exterior



CAUTION

Do not fill to more than 95% of the tank capacity. Do not "top off" the tank, doing so may result in fuel spillage when the fuel expands.

NOTE

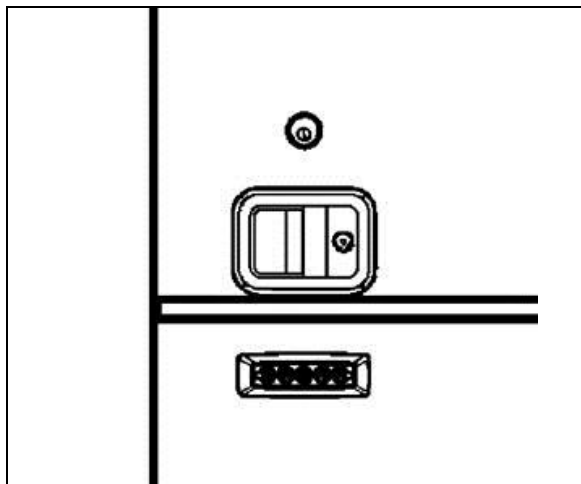
The fuel filler door locks must be in the unlocked position before closing.



CAUTION

Diesel exhaust fluid DEF will begin to crystallize and freeze at 12°F (-11°C) and expand by 7% when frozen. To allow expansion without damaging the DEF tank, do not fill the tank with more than 15.9 gallons (60 liters).

ENTRANCE DOOR



ENTRANCE DOOR

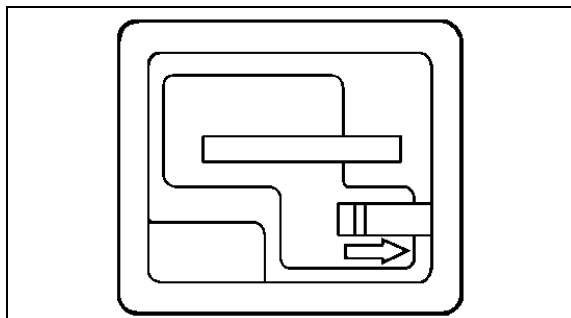
18380

Lock or unlock the entrance door from outside the vehicle by either turning the key in the door lock (counterclockwise to lock, clockwise to unlock), by using the outside key pad (see "Keyless Entry System" in this chapter), or by using the remote control (electronic key). Open the door by pulling on the lever. Close by pushing the door shut.

NOTE

The stepwell lights and entrance overhead light turn on as the door opens.

There are two ways of unlocking the entrance door from the inside. The first consists in actuating the rocker switch on the R.H. dashboard panel. This operation will also unlock the baggage compartments. It is also possible to unlock the entrance door by sliding its lock lever to the left. If the orange tab on the door-lock lever is visible, the door is unlocked.



DOOR-LOCK PANEL

18187

KEYLESS ENTRY SYSTEM

This system, located below the entrance door handle, is used to lock or unlock the entrance door, the baggage compartment and the service compartment. A default 4 digits access code is permanently preprogrammed in the module by the manufacturer. A 6 digits authority code will also be supplied to the owner and will be used to store up to 40 new personal access codes (4 digits).

NOTE

Refer to "Other Features" chapter for complete keyless system operating instructions.

REAR VIEW MIRRORS

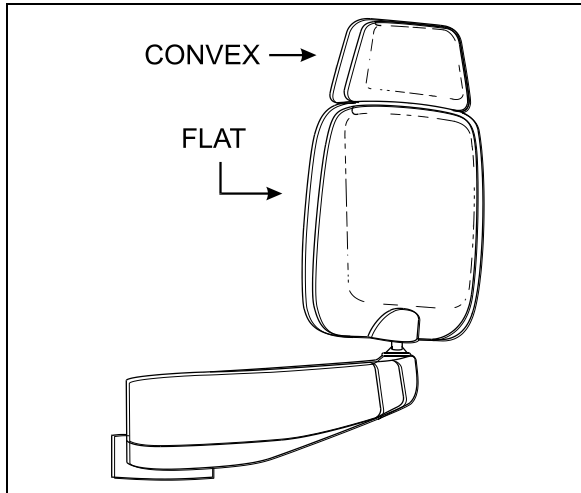
The vehicle is equipped with flat-type and convex-type rear-view mirrors. Convex mirrors give a wide angle view. Objects viewed in convex-type rear-view mirrors appear smaller and are actually closer than they appear.

To provide good visibility in cold weather, the mirrors are equipped with heating elements. The elements are activated by a rocker switch located on the dashboard. Refer to "Controls & Instruments" chapter. Thermostats are used to prevent continuous operation of the heating elements.



CAUTION

Do not attach stick-on type convex mirror accessories to the heated mirror glass. This could impede uniform heat distribution on the mirror surface and could break the mirror glass.



REAR VIEW MIRRORS

18376

The mirrors are adjusted using the controls located on the L.H. control panel. Refer to "Controls & Instruments" chapter. Manual adjustment is also possible.

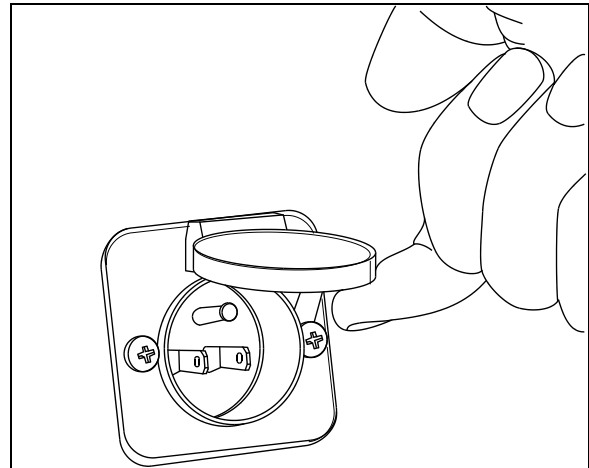
Adjust the side-view mirrors until the side of the vehicle is visible. Adjust the flat-type mirror until the road behind is in full view.

BACK-UP CAMERA

An optional back-up camera is available which provides the driver with visual assistance when backing-up. For additional information, refer to "Controls & Instruments" and 'Care and maintenance' chapters.

110-120 VOLT CONNECTOR

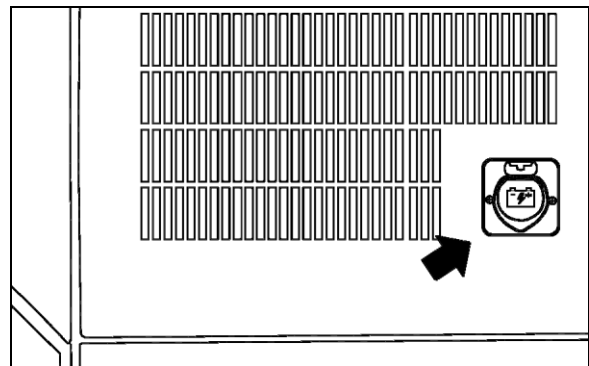
One connector is connected to the electric block heater to connect to a 110-120 VAC power source. It is located near the engine compartment rear doors release handle. (Refer to chapter "Starting and Stopping Procedures").



110-120 VOLT CONNECTOR

06390

Another connector is used to connect the battery charger to a 120 VAC power source. It is located above the engine compartment curbside door next to the air filter intake grill.



BATTERY CHARGER 120 VOLT CONNECTOR

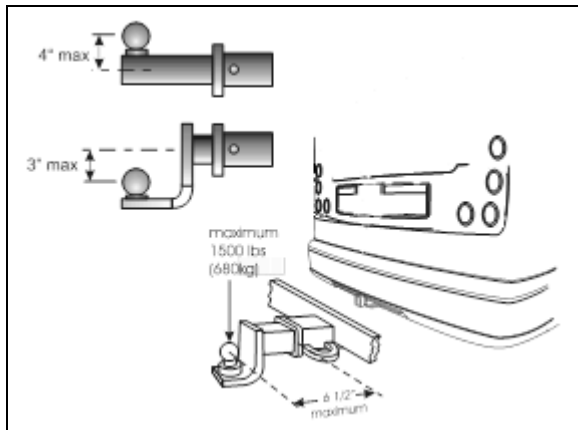
06780

TRAILER HITCH

20 000 lb max. Gross trailer weight capacity (optional)

Your vehicle may be equipped with a factory installed trailer hitch which has been designed to meet the following rating:

2-14 Vehicle Exterior



TRAILER HITCH

23337

- **Maximum gross trailer weight: 20,000 lb (9072 kg)**
- **Maximum tongue weight at 6 1/2 inches (165 mm) or less from coupling receiver: 1,500 lb (680 kg)**



DANGER

The draw bar and the ball used for towing the trailer should be rated for 20,000 lbs capacity or more.



WARNING

Pulling a trailer weighing more than the recommended maximum gross weight may cause engine and transmission overheating, and also possible hitch failure.

NOTE

Pulling a trailer over long distances is considered as a "severe operating condition" for the vehicle and therefore, power plant requires more frequent servicing.

NOTE

The minimum requirement for a trailer weighing up to 20,000 lbs when coupled to a 20,000 lb PrevoSt Trailer Hitch is as per the following:

1. **Trailer must comply with Federal Motor Carrier Safety Regulations 393.52 regarding trailer braking capability.**
2. *The trailer coupling attachments meet the following minimum static test load requirements :*

- *Longitudinal tension and compression: (1.5 x GVWR of trailer)*
- *Transverse thrust: (0.5 x GVWR of trailer)*
- *Vertical tension and compression: (0.5 x GVWR of trailer)*

Loads indicated must be applied without incurring loss of attachments or distortion or failure which could affect the safe towing of trailer.

3. *The ball and trailer coupling should meet the following minimum test load requirements without incurring failure:*

- *Longitudinal tension and compression: (Gross Trailer Weight of trailer x 3)*
- *Transverse thrust: (Gross Trailer Weight of trailer x 1)*
- *Vertical tension and compression: (Gross Trailer Weight of trailer x 1.3)*

In this case, failure is identified as the point at which the coupling or ball will accept no additional test load without separation of the ball from the coupling ball socket, or the occurrence of a metal fracture of either coupling ball or coupling assembly, which results in separation of the ball from the coupling ball socket.

4. *Two lengths of safety chain shall be used. The strength rating (minimum breaking force) of each individual chain and its connecting means shall be equal to, or exceed the trailer GVWR.*
5. *Towing vehicle must be equipped with engine or transmission retarder. The engine or the transmission retarder on the vehicle must be functional at all time (to be inspected frequently).*
6. *This hitch must be used for recreational use only.*