

SECTION 2 - COACH EXTERIOR

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EXTERIOR VIEW

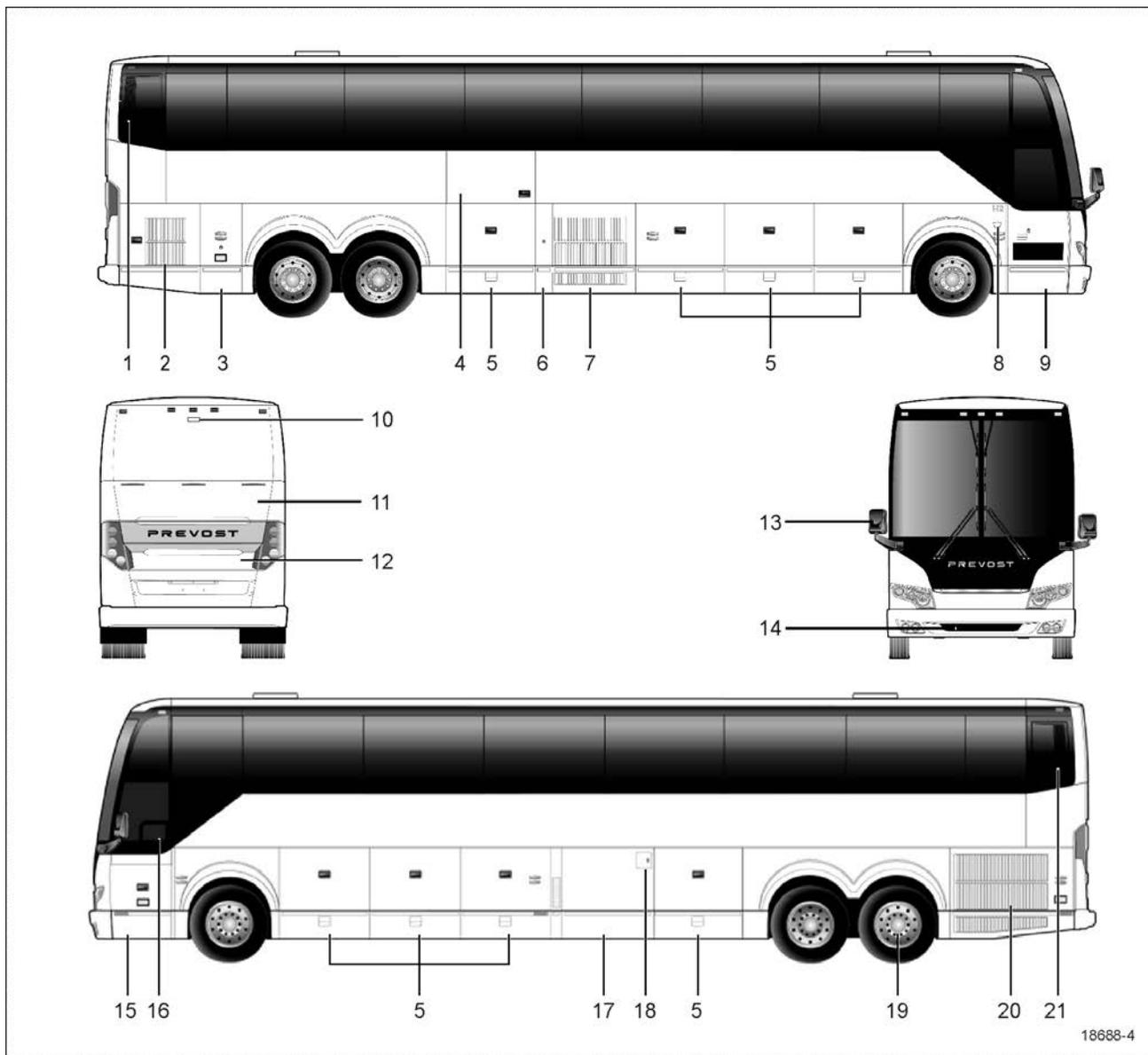


FIGURE 1: H3-45 EXTERIOR VIEW

1. Engine air intake
2. Engine R.H. side access door
3. Main power compartment (battery compartment)
4. Wheelchair area access door
5. Baggage compartment
6. Fuel filler neck access door
7. A/C condenser or baggage compartment
8. Entrance door control switch
9. Entrance door
10. Retractable backup camera (optional)
11. Diesel Particulate Filter (DPF) access door
12. Engine compartment rear door
13. Rear-view mirror
14. Reclining bumper compartment
15. Front electrical and service compartment
16. Driver's power window
17. Heating, ventilating and air conditioning compartment (HVAC)
18. Fuel filler neck and diesel exhaust fluid (DEF) filler neck access door
19. Auxiliary axle (TAG)
20. Engine radiator door
21. SCR catalytic converter access door

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ENGINE COMPARTMENT COMPONENTS

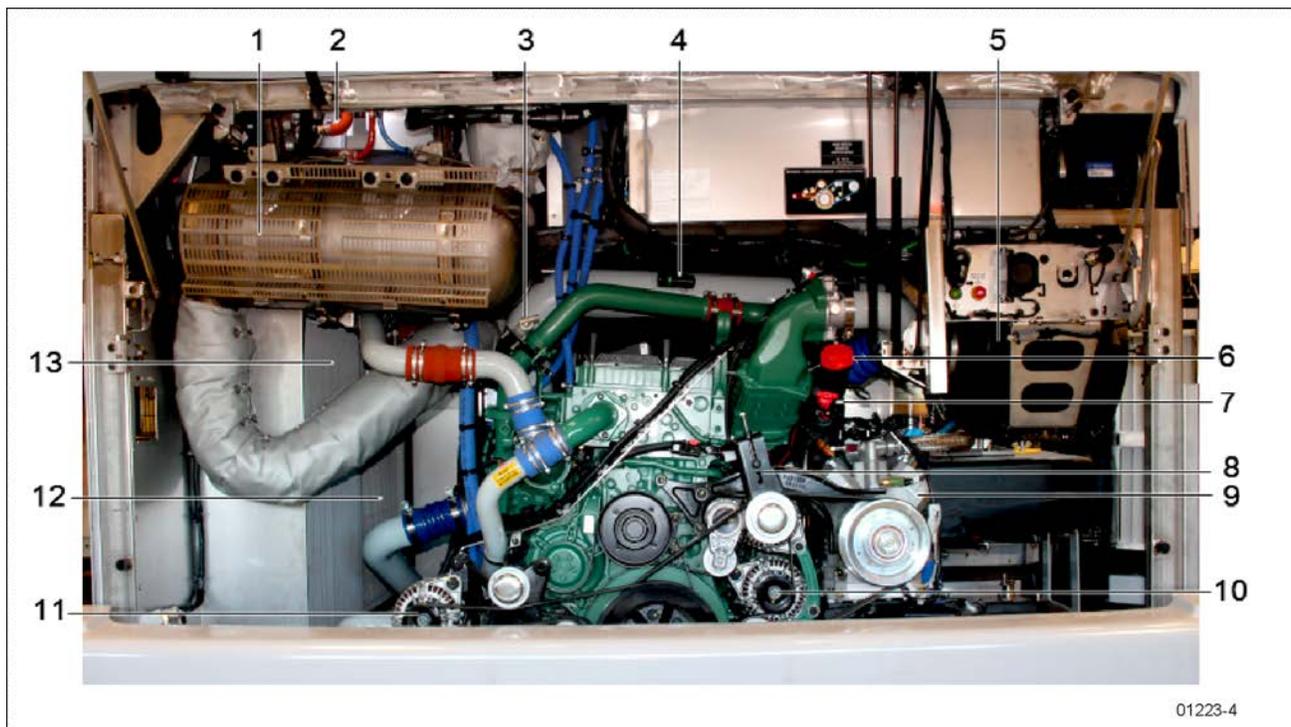


FIGURE 2: ENGINE COMPARTMENT FEATURING VOLVO D13 ENGINE

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

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ENGINE COMPARTMENT CURBSIDE DOOR



Lock this door using the exterior compartment key. To open, pull up the door handle to release the latch and then pull the door open.

The curbside door also has a safety catch to prevent it from closing inadvertently. Release the catch before attempting to close.

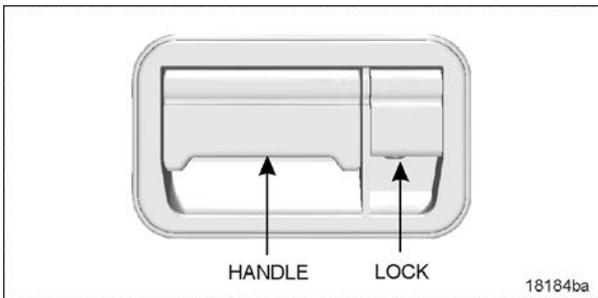


FIGURE 3: DOOR HANDLE

The engine compartment curbside door provides access to the following (if equipped):

- Engine compartment rear door release lever
- Davco Fuel Pro 382 filtration system
- Primary & secondary air system fill valve
- Power steering fluid tank
- Booster block terminals
- Wet air tank drain cock
- Lavatory waste water tank access cap
- Engine air filter
- Battery charger 110-120 volts connector
- Engine block heater 110-120 volts connector



WARNING

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

ENGINE COMPARTMENT DOOR



To open the engine door, first open the curbside door. Lift the latch release lever. Unlatch the door and pull it out and up.

The door should stay open by itself but it is recommended to always use the safety catch as shown. The lighting in the engine compartment turns on automatically when the door is open. When open or not closed properly, a pictogram appears on the instrument cluster DID. To close the door, lift it slightly and release the safety catch.

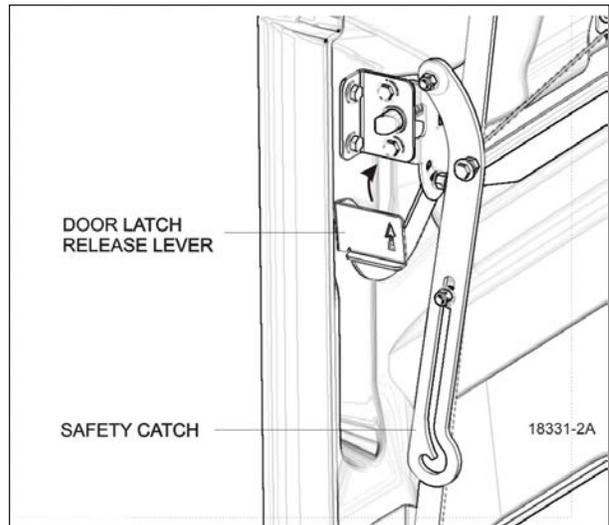


FIGURE 4: OPENING THE ENGINE COMPARTMENT DOOR

This door provides access to the following equipment:

- Engine
- Alternators
- Belts and belt tensioners
- Compressor(s)
- Rear starter switch (see ["STARTING FROM THE ENGINE COMPARTMENT" on page 5](#) in Section 6 Starting and Stopping Procedures)
- Engine certification plate
- Air filter restriction indicator

- Couplings and valves for lavatory maintenance
- Fresh water tank coupling
- Engine oil dipstick and filler cap
- Transmission oil dipstick
- Cooling fluid surge tank level tube

WARNING

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

EXHAUST AFTERTREATMENT SYSTEM ACCESS DOOR



The engine door must be opened before opening the DPF access door. To open the DPF access door, press the latch release lever. Using both hands, push the door up until it locks in place.

To close the door, press the latch release lever again and lower the door, holding it with both hands.

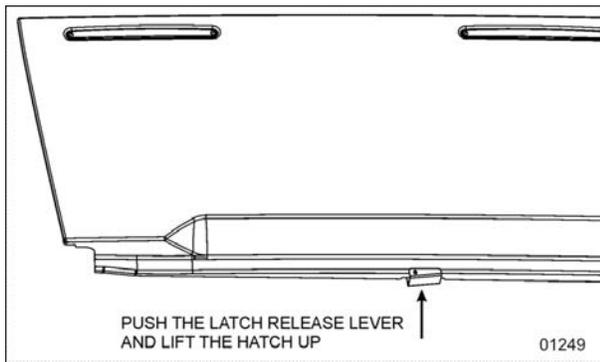
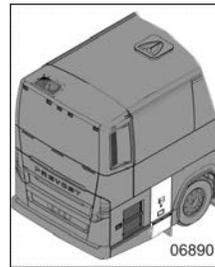


FIGURE 5: EXHAUST AFTERTREATMENT SYSTEM ACCESS DOOR

MAIN POWER COMPARTMENT



To unlock the main power compartment door, use the exterior compartment door key. The door will pop open.

The compartment light turns on automatically when the door is open and the ignition switch is in the ON position. A telltale light indicating that a compartment door is open will illuminate on the dashboard.

This compartment is closed off from the engine compartment and is used to house the batteries and electrical components. The following items are located in the main power compartment:

- (4x) 12-volt batteries
- Main circuit breakers (12 & 24 volts)
- Battery charger (optional)
- Vanner battery equalizer
- Rear multiplex modules
- Transmission Electronic Control Module for Allison transmission or Volvo I-Shift
- Rear fuse box (VECR)
- Relays
- Electronic ground stud

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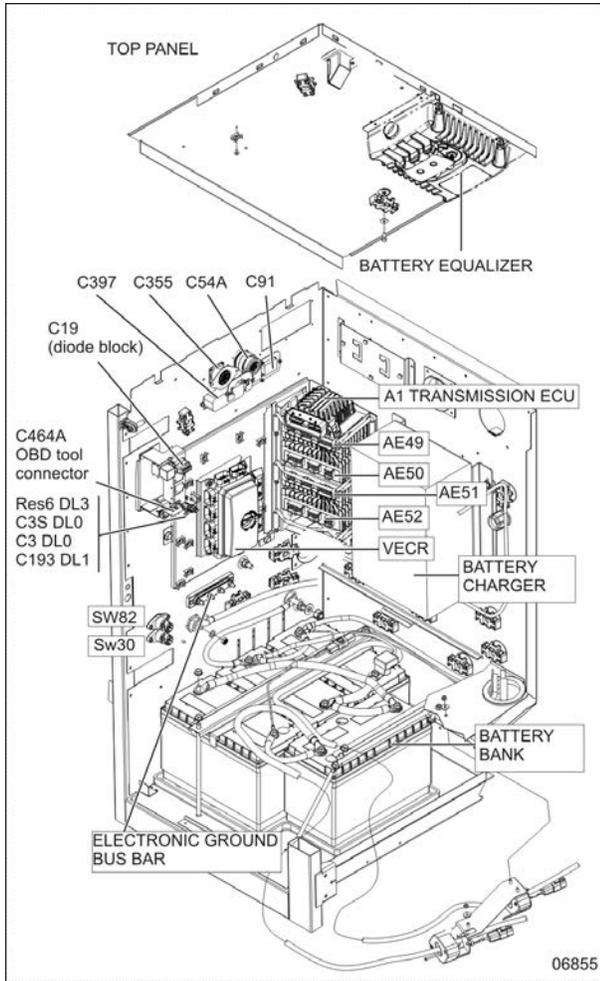


FIGURE 6: VIEW OF MAIN POWER COMPARTMENT (TYPICAL)

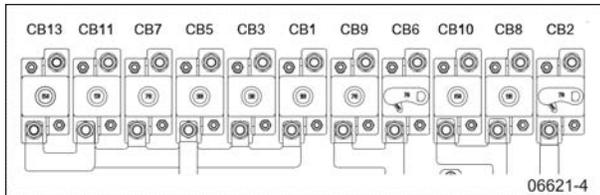


FIGURE 7: MAIN CIRCUIT BREAKERS 12 & 24 VOLTS (TYPICAL)

RADIATOR DOOR

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

Open the engine radiator door by pulling on the latch release lever from inside the engine compartment left pillar.



FIGURE 8: RADIATOR DOOR LATCH RELEASE LEVER LOCATION



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.

SCR CONVERTER ACCESS HATCH

This hatch is located above the radiator door.

To gain access to the SCR catalytic converter:

1. Open the radiator door first;
2. Pull the catch connecting rod to unlock the access hatch;
3. Lift the hatch open;
4. Hold the door open by inserting the support rod free end into the receptacle.

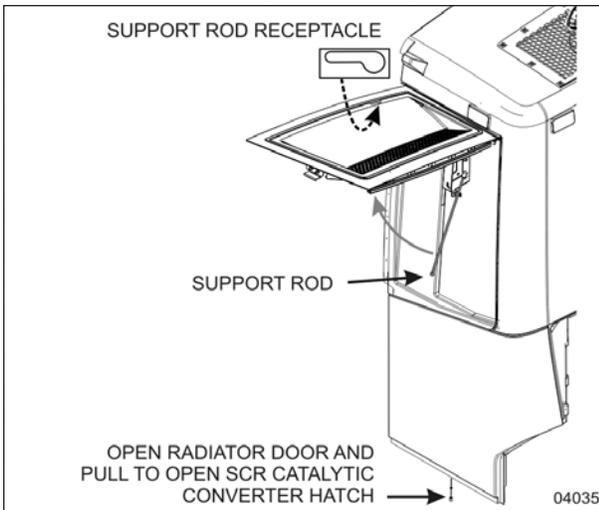


FIGURE 9: ACCESS TO THE SCR H3 SERIES

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 the engine has been shut down. Allow the Exhaust Aftertreatment System to cool before handling. Wear protective clothing and gloves while servicing.

A/C CONDENSER COMPARTMENT

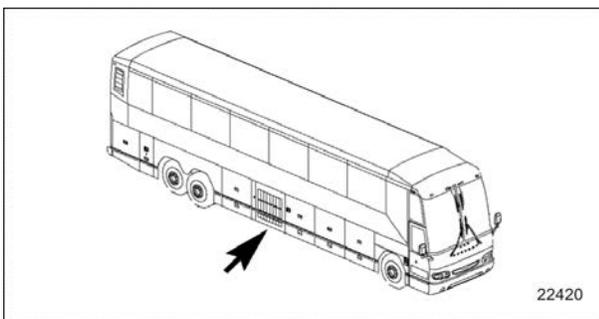


FIGURE 10: A/C CONDENSER COMPARTMENT

The following information is for vehicle equipped with a central A/C system.

To open the condenser compartment door:

1. Open the fuel filler door first;
2. Move the latch bolt pin to the right as shown (step 1 on image);
3. Rotate the latch handle as shown (step 2);
4. Open the door on the right side when facing it.

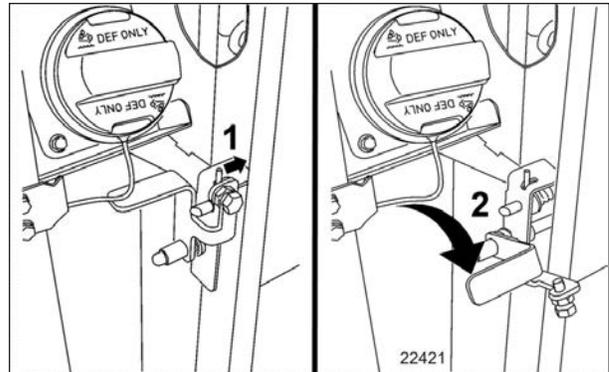


FIGURE 11: A/C CONDENSER COMPARTMENT DOOR OPENING

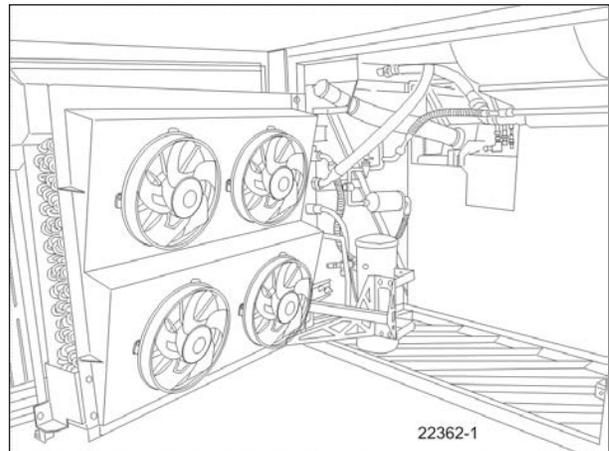
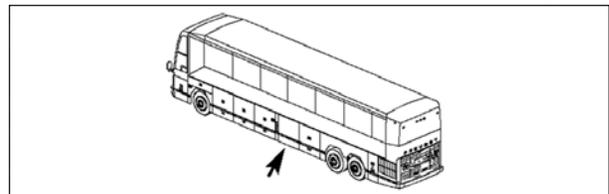


FIGURE 12: CONDENSER COMPARTMENT

EVAPORATOR COMPARTMENT



The following information is for vehicle equipped with a central A/C system.

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To access the evaporator compartment, pull the release latch located on the left side wall of the rearmost baggage compartment.

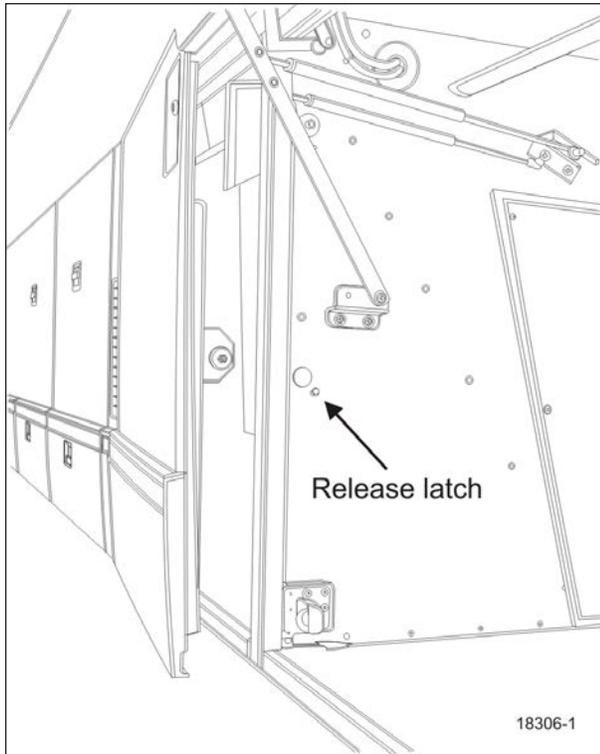


FIGURE 13: EVAPORATOR COMPARTMENT ACCESS

The evaporator compartment contains relays, diodes and a multiplex electronic module mounted on a panel located on the R.H. side wall when facing the compartment.

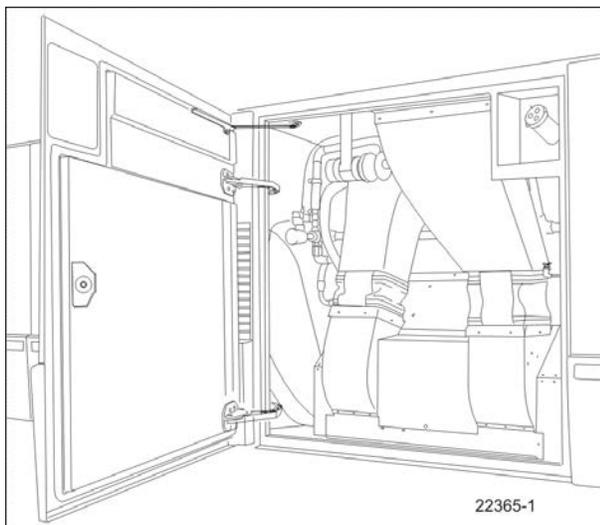


FIGURE 14: EVAPORATOR COMPARTMENT

NOTE

It is important to keep the evaporator compartment door closed while checking the HVAC system to prevent faulty readings.

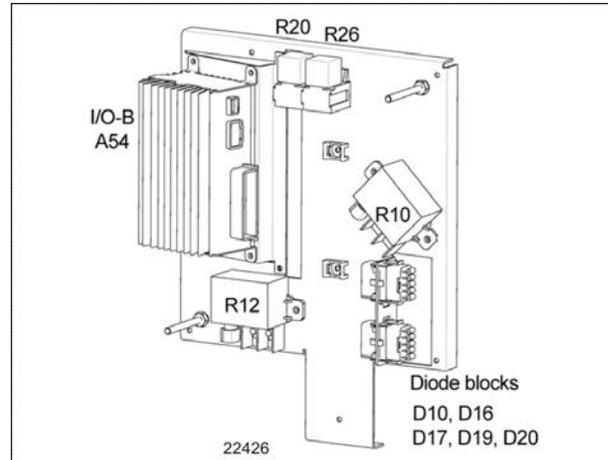
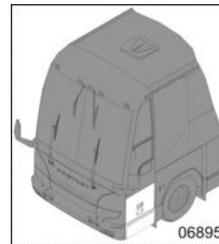


FIGURE 15: HVAC COMPONENTS PANEL

FRONT ELECTRICAL AND SERVICE COMPARTMENT



Unlock this compartment door using the exterior compartment key. The light in the front service compartment turns on automatically when the door is open.

The front electrical and service compartment provides access to the following:

- Front fuse box (VECF) & spare fuses
- ABS module
- VECU
- Front multiplex modules I/O-A, I/O-B
- Relays & resistors
- Kneeling audible alarm
- Emergency door opening unlock valve
- Windshield washer reservoir
- Headlights washer reservoir
- Reclining bumper opening handle
- Accessories air tank purge valve
- Accessories air tank fill valve

- MCM module
- Electronic ground stud
- Tire Pressure Monitoring System module

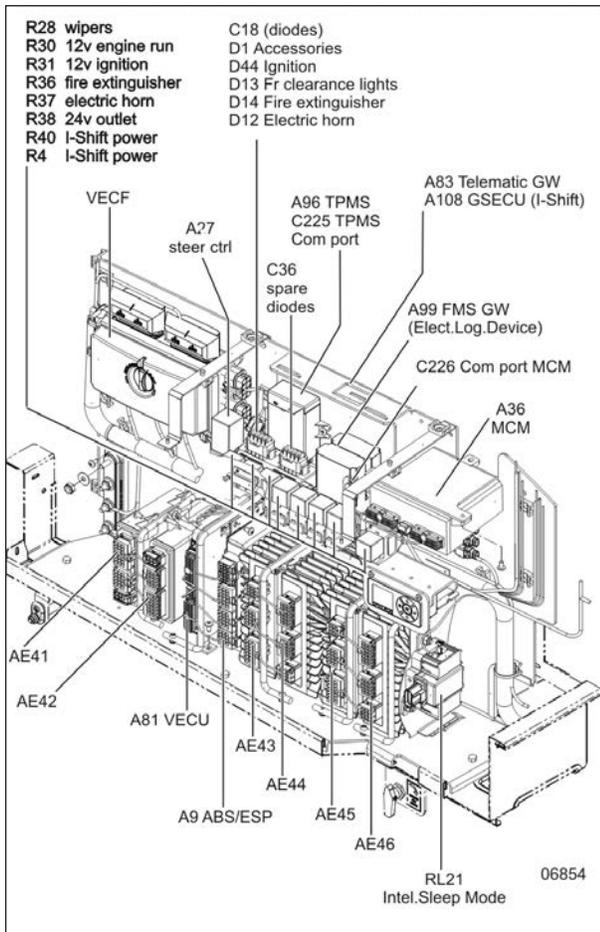


FIGURE 16: FRONT ELECTRICAL COMPARTMENT

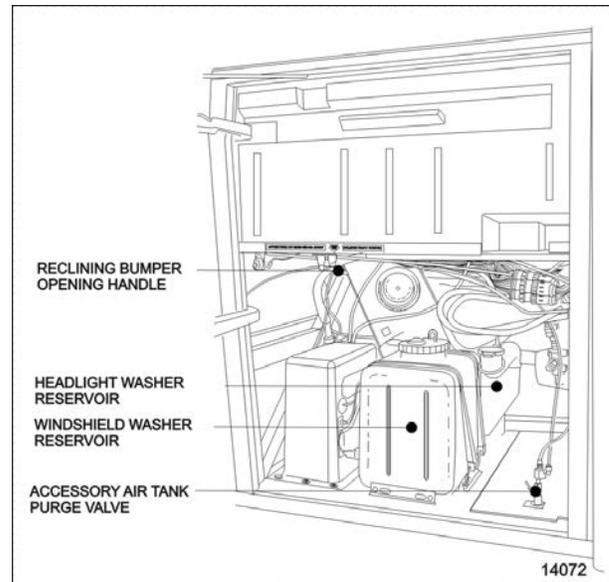


FIGURE 17: FRONT ELECTRICAL & SERVICE COMPARTMENT

BAGGAGE COMPARTMENTS

Baggage compartments can hold a maximum load of 2500 lb each, spread evenly over the floor. The total combined weight of cargo and passengers must not exceed 15660 lb. The baggage compartments can be locked or unlocked by using the exterior compartment key.

Pressurized cylinders assist the opening and closing of the baggage compartment doors.

To close, pull the door down by the notch in the lower part of the door. Once below a certain point, release the door and the cylinders will slam the door shut. Push-in the top part of the door past the safety catch on both sides to fully close.

Lights in the baggage compartments turn on automatically when the door is open. A pictogram appears on the DID when a compartment door is open.



WARNING

To avoid injury, keep hands clear of door edge and door frame when closing

NOTE

To prevent theft and vandalism, always lock all doors before leaving the vehicle unattended.

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NOTE

The baggage compartment doors can be locked / unlocked with the optional baggage compartments locking system. The switch is located on the lateral control panel. Refer to "[CONTROL SWITCHES](#)" on page 13 in Section 4 Controls and Instruments.

NOTE

To prevent the door from closing in case of defective cylinders, lock the door in open position by pushing it further towards the body of the vehicle, until it locks in place.

SPARE WHEEL COMPARTMENT

The spare wheel is located in the compartment behind the front bumper.



WARNING

This compartment is not designed for miscellaneous storage. Never store loose objects in this compartment because they can block the steering linkage mechanism.

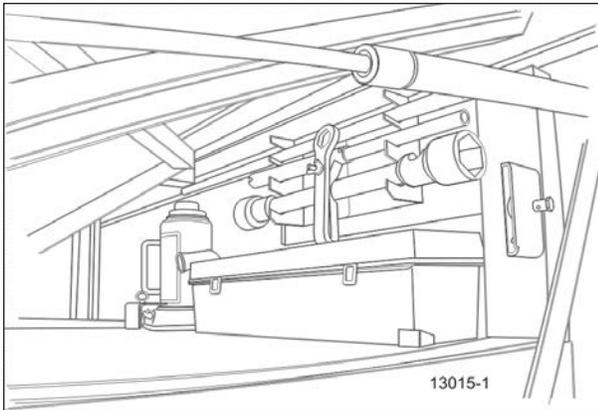


FIGURE 18: TOOLS IN FIRST BAGGAGE COMPARTMENT

To access the spare wheel compartment, pull on the release handle located in the front electrical and service compartment, near the lower door hinge. The bumper will lower gradually.

NOTE

The jack and tools are located in the first baggage compartment.

When closing the compartment, be sure the bumper is firmly in place.

FUEL AND DIESEL EXHAUST FLUID (DEF) FILLER NECK ACCESS

Both fuel filler neck doors must be opened with the exterior compartment key. To open, turn the key $\frac{1}{4}$ turn clockwise and pull the door open.

NOTE

It is recommended to refuel from the curbside whenever possible, to avoid spilling fuel into the evaporator compartment. Any amount of fuel vapor in this compartment would be carried right up into the cabin by the HVAC system fresh air intake.

Moreover, the curbside filler neck access door is the only access to the DEF filler neck.

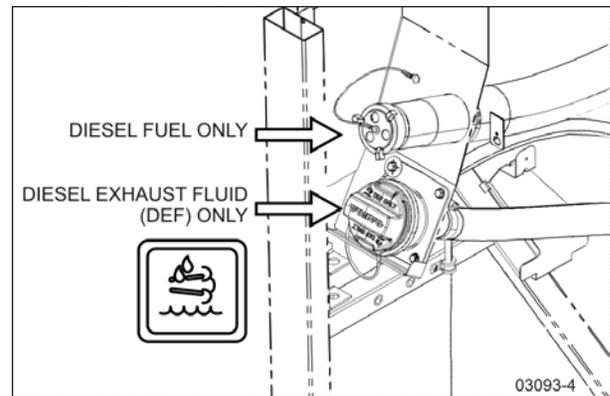


FIGURE 19: FUEL FILLER DOOR

NOTE

Provided the vehicle is parked on level ground, an automatic nozzle will automatically shut off when tank is approximately 95% full.

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.

CAUTION

DEF – Do not overfill

If an automatic nozzle is used for filling diesel exhaust fluid (DEF), do not add further DEF after the nozzle has automatically shut off flow a first time.

If such nozzle is not available, use the DEF level gage on the instrument panel to control the quantity during filling.

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 16 gallons (60 liters).

During vehicle operations, the SCR system is designed to provide heating for the DEF tank and supply lines. If DEF freezes when the vehicle is shut down, start up and normal operation of the vehicle will not be inhibited. The SCR heating system is designed to quickly return the DEF to liquid form and the operation of the vehicle will not be impacted.

ENTRANCE DOOR

Entrance door operation from the inside or outside and in case of emergency.

LOCK OPERATION

Lock or unlock the entrance door from outside the vehicle by turning the key in the door lock (counterclockwise to lock, clockwise to unlock).

The only way to unlock the entrance door from the inside is by sliding its lock lever to the left.

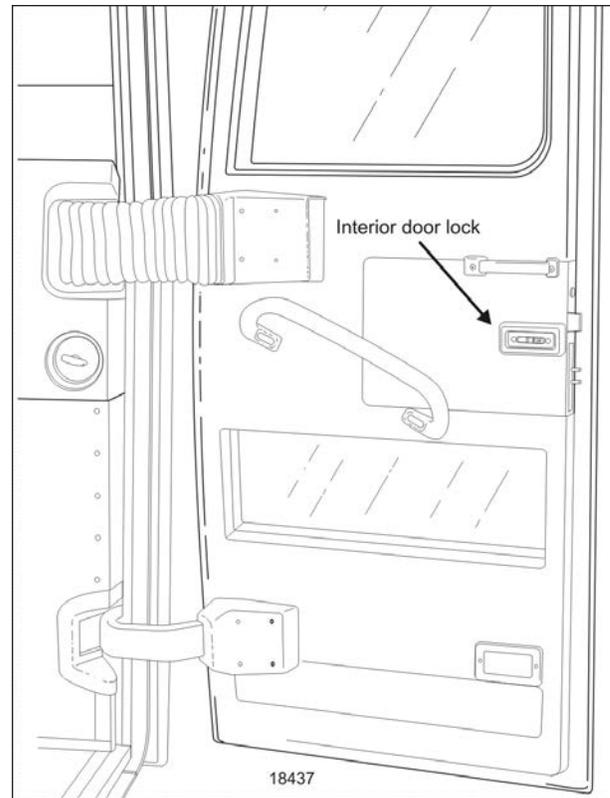


FIGURE 20: ENTRANCE DOOR –H3

OPENING THE ENTRANCE DOOR FROM OUTSIDE

The opening and closing of the door may be pneumatically controlled from the outside using the 3-position switch located on the door L.H. side. Open the door by pushing the switch forward, close by pushing the switch rearward.

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FIGURE 21:

FIGURE 22:



FIGURE 23: ENTRANCE DOOR EXTERIOR SWITCH – H3

OPENING THE ENTRANCE DOOR FROM INSIDE

From the inside, open the door by pressing the door opening switch (L.H. button) on the R.H. dashboard panel. Close by pressing the door closing switch (R.H. button) on the dashboard. Refer to “Controls and Instruments” chapter for more information.

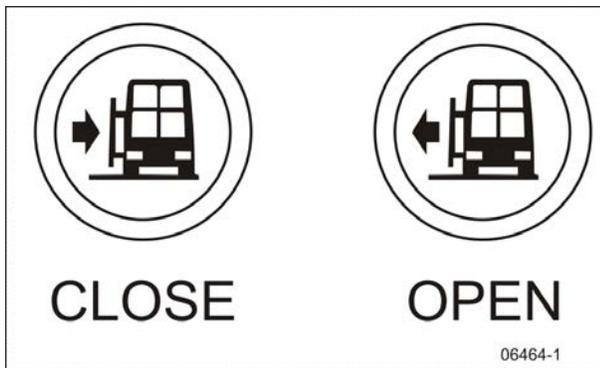


FIGURE 24: DASHBOARD SWITCHES

NOTE

If the interior lever is used to exit the coach and the key is not used to unlock the door, it will lock again upon closing. Remember to remove the keys upon exiting.

DOOR OPERATION LOGIC

If the switch is held in position until the door is fully open or closed, the system holds pressure in the door cylinder, locking the door in that position. The door can be open to any position by releasing the switch (or button if inside) when the desired position is attained. However, the door is not locked in any position other than fully open or fully closed. The door can then be open or closed further by pushing or pulling on the door.

When the door is almost shut, a mechanism will finish the closing of the door. This works even when the door is shut manually.

EMERGENCY DOOR OPENING

Refer to [“EMERGENCY ENTRANCE DOOR OPENING” on page 3](#) in Section 7, Safety Features and Equipment.

WHEELCHAIR LIFT ACCESS DOORS

To open the optional wheelchair lift access doors, the coach must be parked on a flat and level surface with the parking brake on. Using the exterior compartment doors key, unlock and carefully lower the lift mechanism access door which is part of the baggage compartment door. The lift mechanism access door is located directly below the wheelchair access door. A handle at the left of the lift mechanism unlocks and enables opening of the wheelchair access door. If the parking brake is not activated, a switch in the door will activate the parking brake when it detects the door is open.

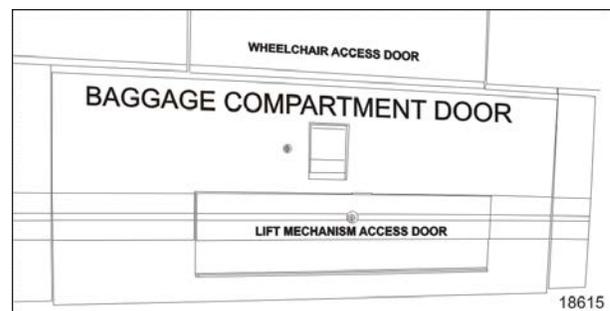


FIGURE 25: WHEELCHAIR LIFT ACCESS DOORS

Open the wheelchair access door completely until it locks in the open position. To close the door, pull on the tab located on the inside of the door and slam the door shut. Refer to “Other Features” for more information on operating the wheelchair lift.

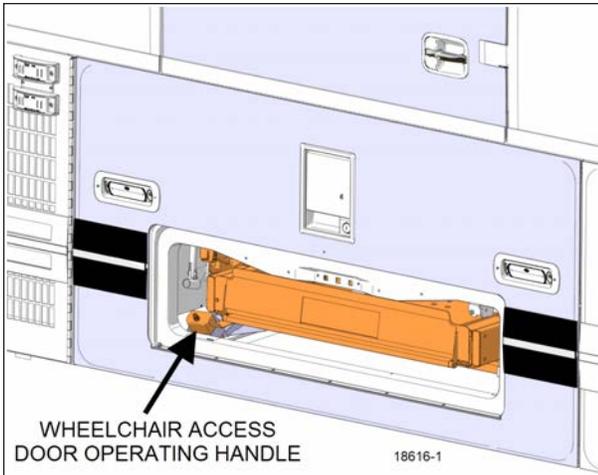


FIGURE 26: WHEELCHAIR ACCESS DOOR OPERATING HANDLE

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.

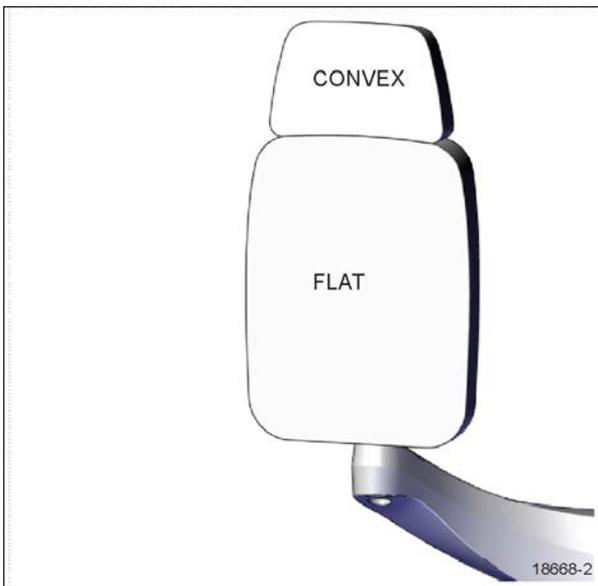


FIGURE 27: EXTERIOR REAR-VIEW MIRROR

To provide good visibility in cold weather, the mirrors can be 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.

As an option, the mirrors may be equipped with LED turning signal lights to give an additional signal light when turning or changing lane for extra safety or for other drivers to see your signal when driving too close, in rain, fog or when in blind spot.

The mirrors are adjusted using the controls located on the lateral control panel. Refer to "Controls & Instruments" chapter.

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. The back-up camera is mounted in a housing with a retractable cover. For additional information, refer to Controls and Instruments and Care and maintenance chapters.

NOTE

A switch located in the rear electric compartment is used to retract the back-up camera cover for cleaning or maintenance.

CAUTION

Never try force to rotate by hand the retractable cover. Damage may occur.

120-VOLT CONNECTOR

This connector is used with a 120 volts supply and is connected to the optional engine block heater. Refer to Starting and Stopping Procedures chapter.

BATTERY CHARGER

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.

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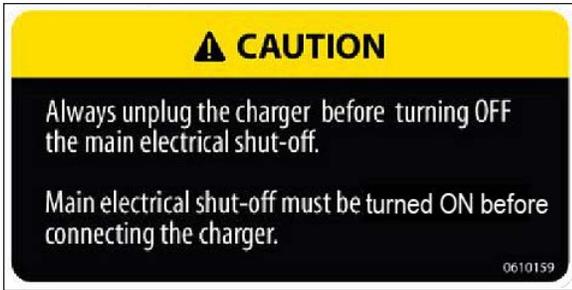


FIGURE 28: BATTERY CHARGER 120-VOLT CONNECTOR – H3

HUBODOMETER

An odometer is installed on the curbside drive axle wheel hub. The odometer calculates the total distance in miles or kilometers (depending on the model installed) traveled by the coach since manufacture, including factory road testing.

NOTE

It is normal for the hubodometer, the engine ECM and the vehicle odometer to disagree on the total mileage.

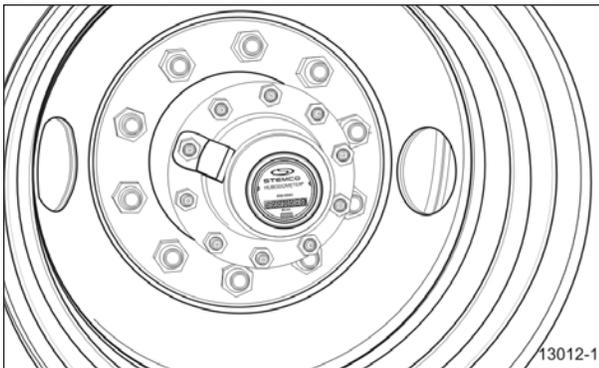


FIGURE 29: HUBODOMETER

TRAILER HITCH

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

Maximum gross trailer weight:

20,000 lbs. (9072 kg)

Maximum tongue weight at 6 1/2 inches (165 mm) or less from coupling receiver:

1,500 lbs. (680 kg)

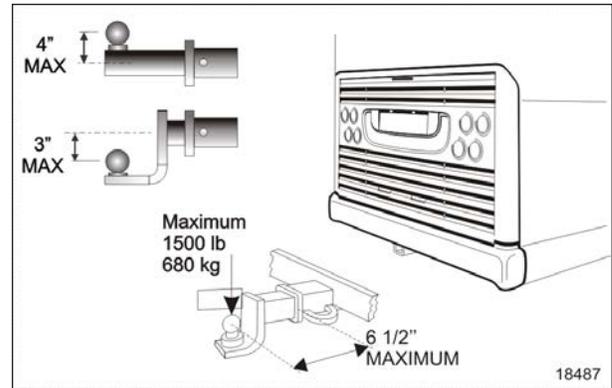


FIGURE 30: TRAILER HITCH

⚠ 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 a possible hitch failure.

NOTE

Pulling a trailer over long distances is considered as a "severe operating condition" for the vehicle. The engine will require more frequent servicing.

TRAILER HITCH LOAD

The minimum requirement for a trailer weighing up to 20,000 lbs. when coupled to a 20,000 lbs. 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 must meet the following minimum static test load requirements. Use the indicated Gross Trailer Weight Rating (GTWR) of your trailer and multiply by the indicated value below.
 - Longitudinal tension and compression: (1.5 x GTWR)
 - Transverse thrust: (0.5 x GTWR)
 - Vertical tension and compression: (0.5 x GTWR)

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 must meet the following minimum test load requirements without incurring failure. Use the indicated Gross Weight Rating (GTWR) of your trailer and multiply by the indicated value below.
 - Longitudinal tension and compression: (GTWR x 3)
 - Transverse thrust: (GTWR x 1)
 - Vertical tension and compression: (GTWR 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's Gross Weight Rating (GTWR).
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).

