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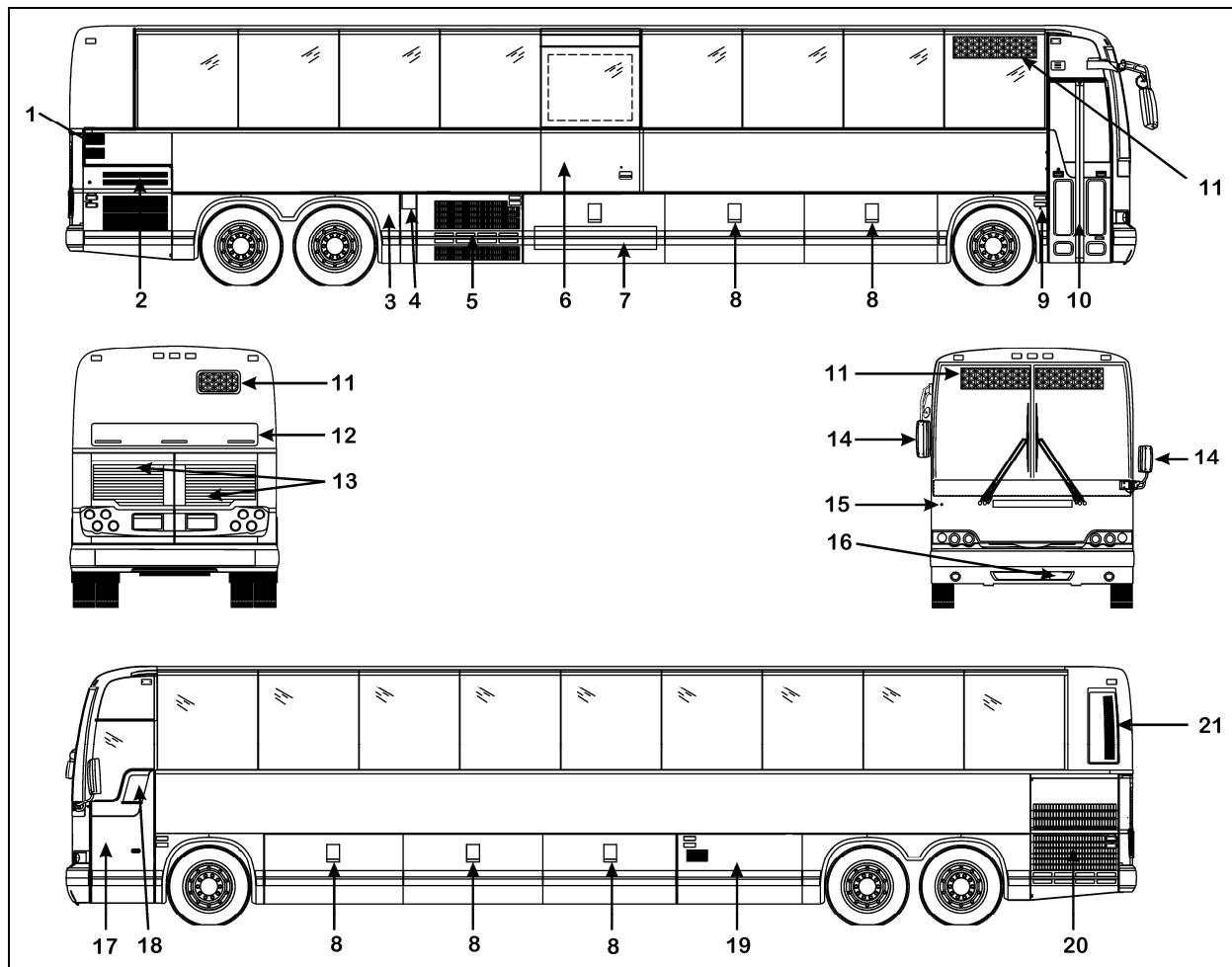
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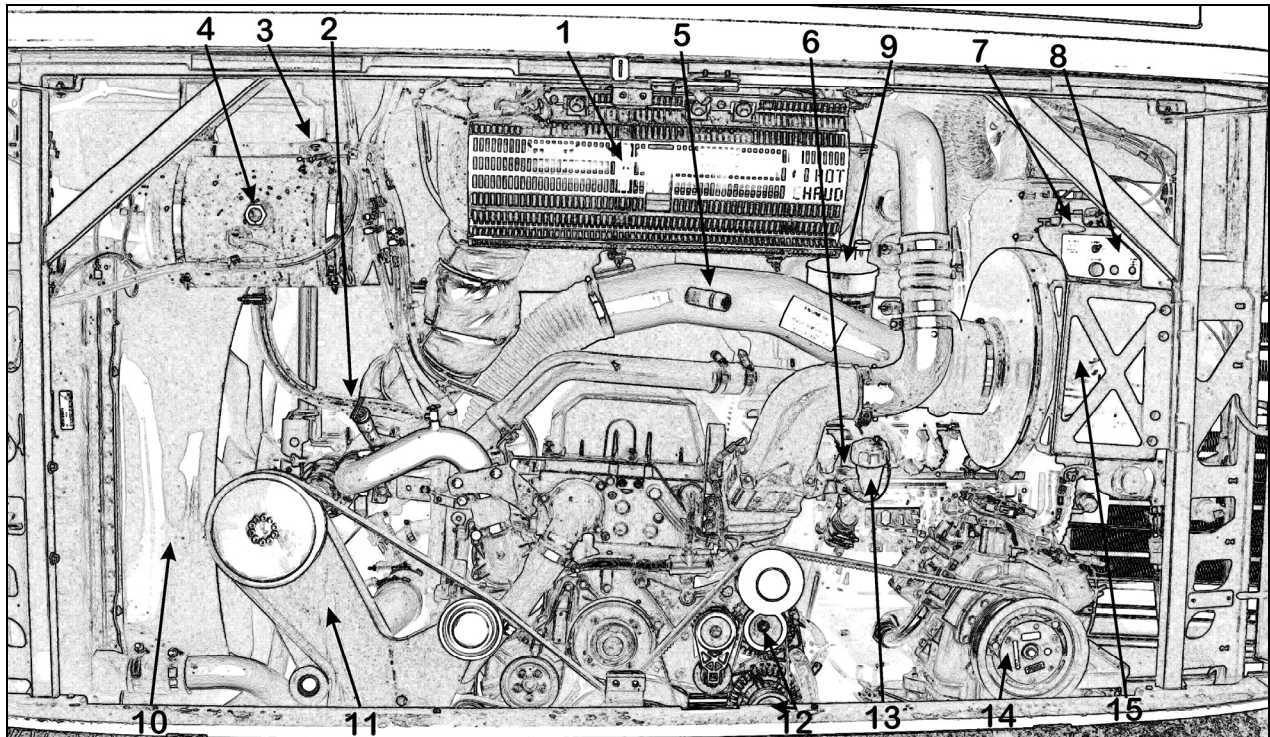
6 Coach Exterior



X3-45 EXTERIOR VIEW (TYPICAL)

18606

- | | |
|---|--|
| 1. Engine Air Intake | 13. Engine Compartment Rear Doors |
| 2. Engine Compartment Curb-Side Door | 14. Rear-View Mirrors |
| 3. Hinged Rear Fender | 15. Transmission Retarder OFF Indicator Light |
| 4. Fuel Filler Door | 16. Front Towing Air Supply Connectors Access Door |
| 5. Condenser Compartment | 17. Front Electrical And Service Compartment |
| 6. Wheelchair Access Door | 18. Driver's Power Window |
| 7. Lift Mechanism Access Door | 19. Evaporator Compartment and Coolant Heater Compartment. |
| 8. Baggage Compartment | 20. Radiator Door |
| 9. Entrance Door Control Switch | 21. Catalytic Converter Access Door |
| 10. Bi-Fold Entrance Door | |
| 11. Electronic Destination Sign or Route Number | |
| 12. Exhaust Aftertreatment System Access Door | |

ENGINE COMPARTMENT COMPONENTS**ENGINE COMPARTMENT FEATURING VOLVO D13 ENGINE**

01184

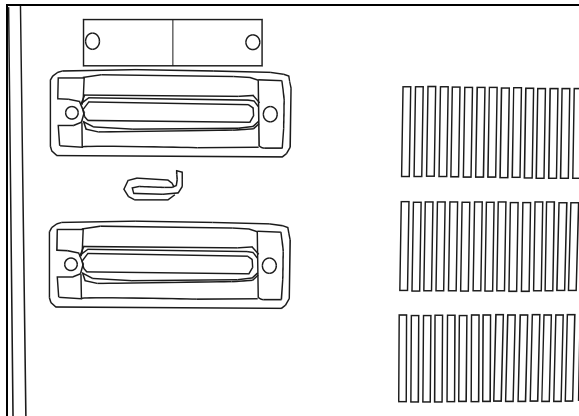
1. Diesel Oxidation Catalyst (DOC) & Diesel Particulate Filter (DPF) Assembly;
2. Transmission fluid dipstick;
3. Coolant fluid surge tank filler cap;
4. Coolant fluid surge tank sight glass;
5. Air filter restriction indicator;
6. Engine oil dipstick;
7. Belt tensioner control valve;
8. Starter selector switch and Engine rear start push-button switch, Engine compartment Lights Switch;
9. Power steering fluid reservoir;
10. Radiator fan;
11. Radiator fan drive mechanism support;
12. Alternators;
13. Engine oil filler tube;
14. Central A/C compressor;
15. Air filter;

ENGINE COMPARTMENT

ENGINE COMPARTMENT CURB-SIDE DOOR

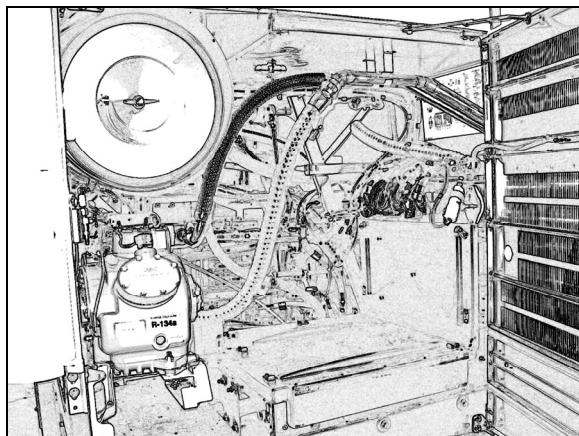
The engine compartment curb-side door provides access to the following (if equipped):

- Engine compartment rear doors release handle;
- Booster terminals;
- Rear electrical panel;
- Rear junction panel;
- Battery compartment;
- Air circuit fill valve and drain cock;



ENGINE COMPARTMENT CURB-SIDE DOOR 18559

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 on the small lever located between the marker lights.



ENGINE COMPARTMENT R.H. SIDE 18607

NOTE

This compartment can be locked/unlocked using the central locking system by pressing the switch located on the L.H. side dashboard panel.

A telltale light illuminates when one or more compartments are unlocked.

ENGINE COMPARTMENT REAR DOORS

To open the engine compartment rear doors, open the engine compartment curb side door and pull the handle located on the rear door, close to the bottom door hinge.



WARNING

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

These doors swing out to provide access to the following:

- Engine;
- Alternator(s);
- Compressor(s);
- Belt tension control valve (refer to chapter, Care and Maintenance);
- Engine starting selector (refer to chapter, Starting and Stopping Procedures);
- Coolant line shutoff valves;
- Certification plates;
- Engine coolant surge tank and filler cap;
- Air filter restriction indicator;
- Engine oil dipstick;
- Power steering fluid reserve tank;
- Allison automatic transmission fluid dipstick;

A catch holding each door open engages when the door is fully open. Release the catches before closing the doors. Close the L.H. door first, then firmly shut the R.H. door.

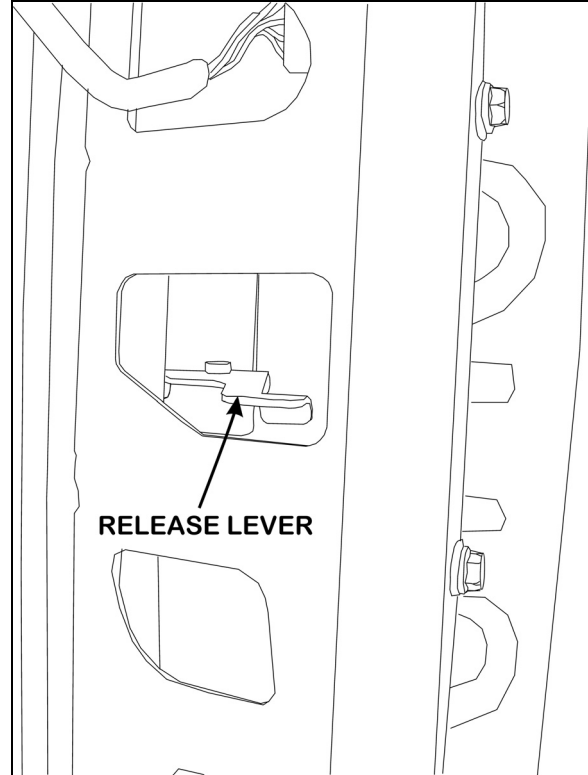


OPENING ENGINE COMPARTMENT REAR DOORS 18608

Turn the lights ON in the engine compartment using the switch on the rear start panel.

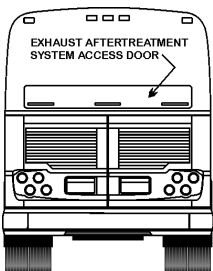
WARNING

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

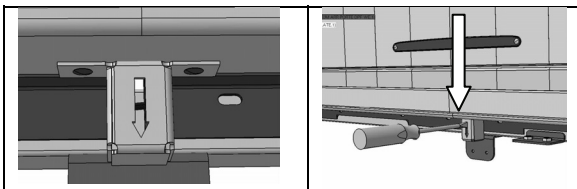


RELEASE LEVER

EXHAUST AFTERTREATMENT SYSTEM ACCESS DOOR



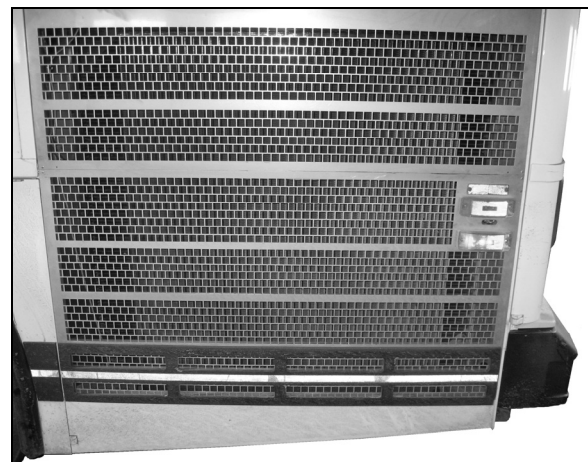
The engine door must be open before opening the exhaust aftertreatment system access door. To open the access door, lower the latch release lever, using a flat tip screwdriver.



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

ENGINE RADIATOR DOOR

First open the engine compartment doors before opening the radiator door. The release lever is located near the radiator. Push the release lever forward to open the radiator door.

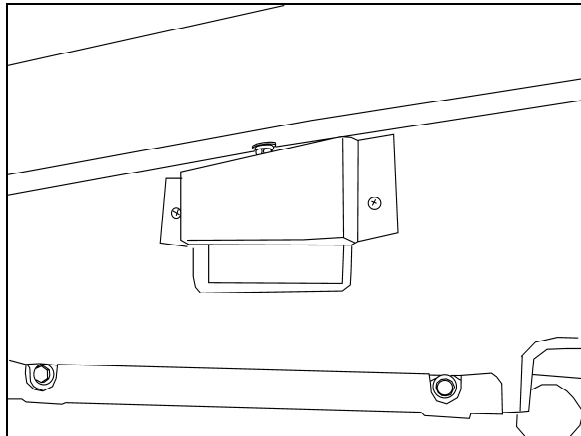


RADIATOR DOOR

18560

CATALYTIC 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 converter access door and lift the door open.



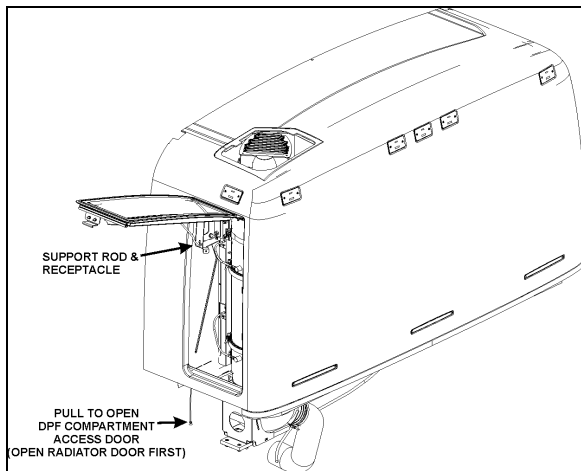
UNLOCKING CATALYTIC CONVERTER ACCESS DOOR

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



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.



ACCESS TO THE CATALYTIC CONVERTER

04023



WARNING

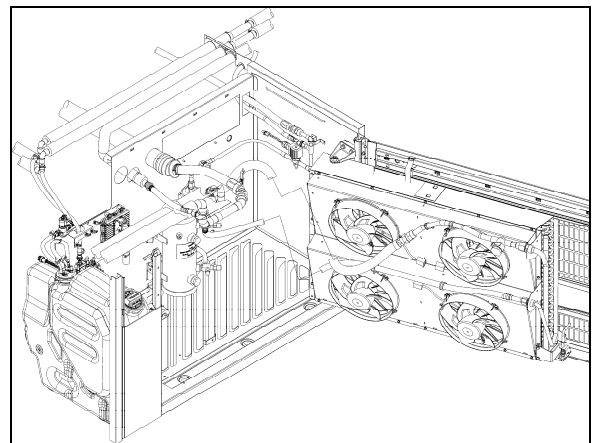
External and internal temperatures remain hot long after engine has been shutdown. Allow the Exhaust Aftertreatment System to cool before handling. Wear protective clothing and glove while servicing.

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;
- Filter dryer and moisture indicator;
- Receiver tank;

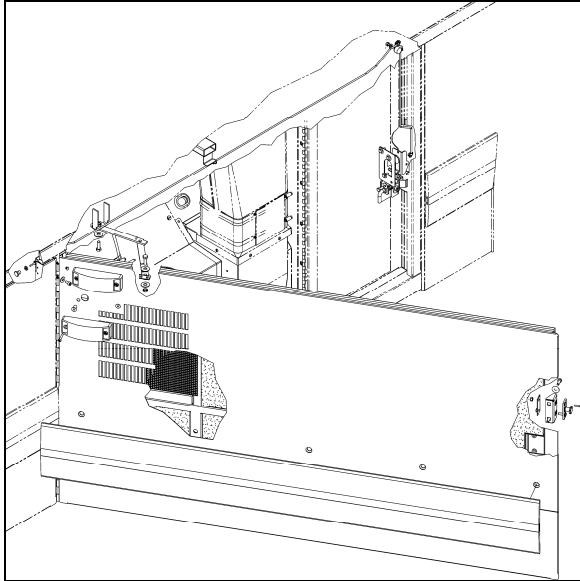


CONDENSER COMPARTMENT (A/C)

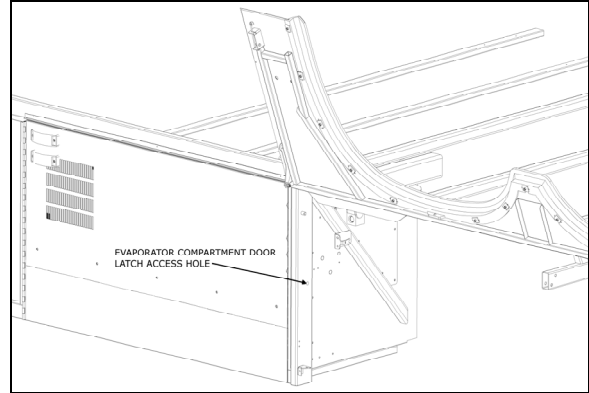
22299

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 swing the HVAC compartment door open.



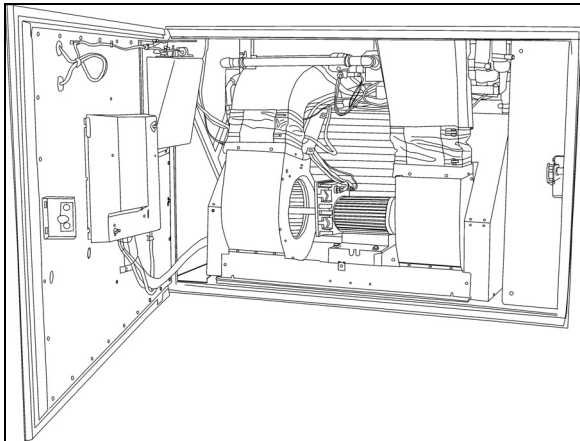
EVAPORATOR COMPARTMENT



EVAPORATOR COMPARTMENT DOOR RELEASE LATCH ACCESS HOLE

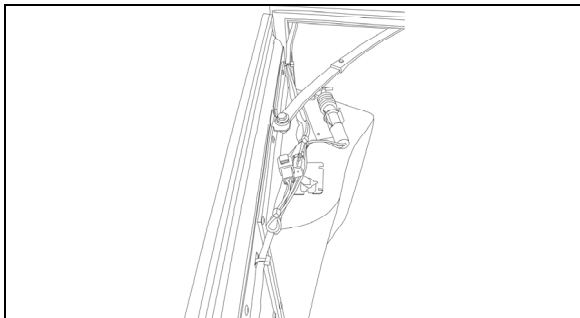
COOLANT HEATER COMPARTMENT

The water recirculating pump is located aft of the evaporator compartment and inside the engine coolant heater compartment and accessible through the evaporator compartment door. The air dryer may also be located in this compartment or in the middle of the rear wheelhousing, above the drive axle.



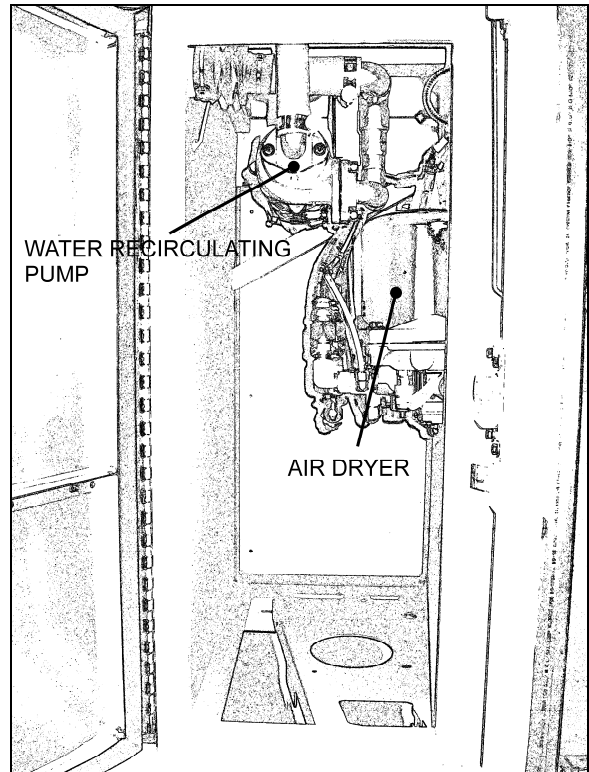
EVAPORATOR COMPARTMENT

22274



RECIRCULATION DAMPER

22302



COOLANT HEATER COMPARTMENT

In case of damage or malfunction of the evaporator compartment door release latch, the door can still be opened using the access hole located forward of the compartment.

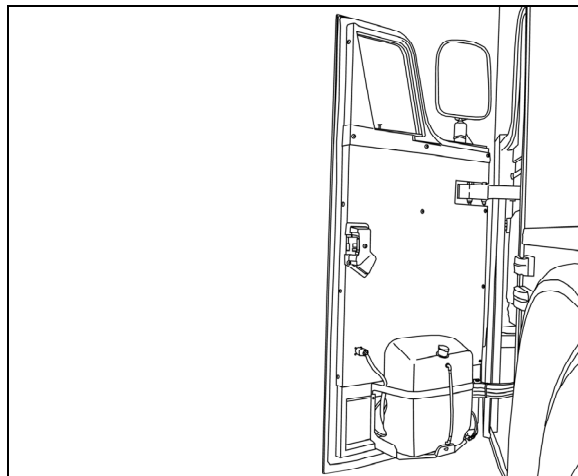
Insert a small rod through the access hole to release the latch.

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

- Front terminal block;
- VECU with Volvo D13 engine;
- Vehicle Electrical Center Front (VECF), MCM and Multiplex Modules;
- Relays and fuses;
- ABS Electronic Control Unit (ECU);
- Emergency door opening unlatch valve;
- Windshield washer reservoir;
- Accessory system fill valve;
- Accessory air tank drain valve;
- Jack and tools.



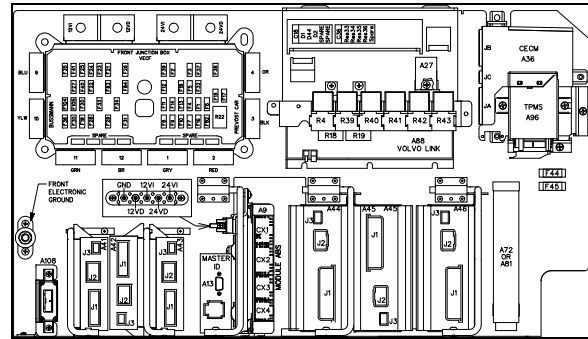
FRONT SERVICE COMPARTMENT DOOR 18610

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

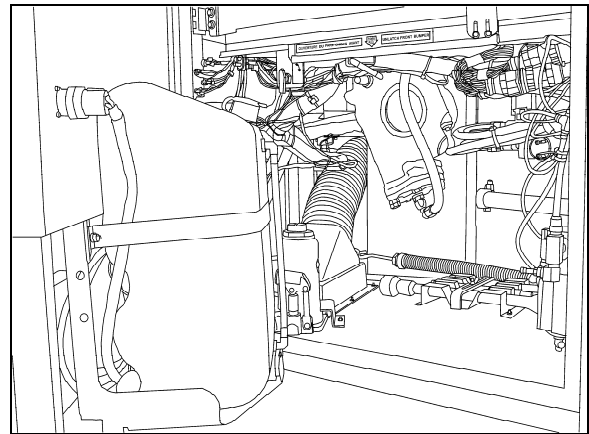
The light in the front electrical and service compartment turns *ON* automatically when the door is opened.

NOTE

Jack and tools are located inside the front electrical and service compartment.



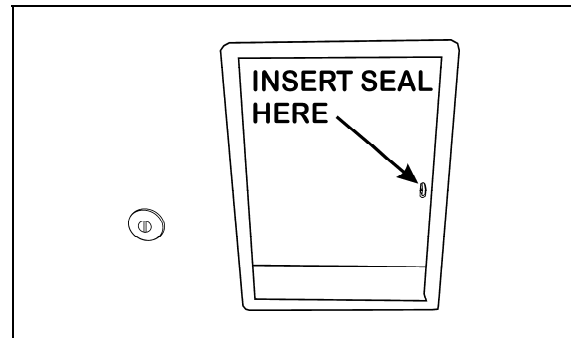
FRONT ELECTRICAL COMPARTMENT 06673



FRONT SERVICE COMPARTMENT 18611

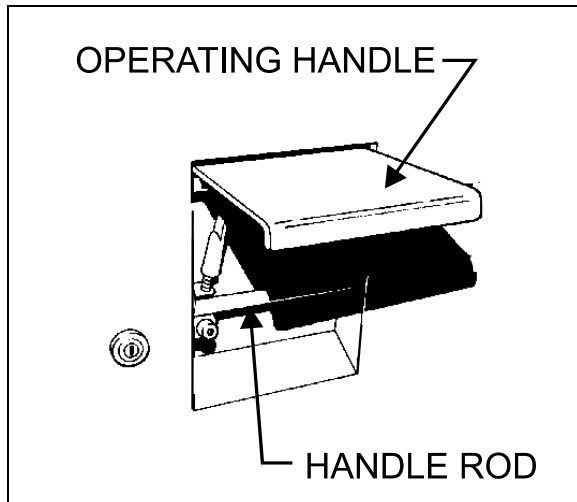
BAGGAGE COMPARTMENTS

The baggage compartments of the X3-45 Coach may be locked using a seal on the operating handle.



BAGGAGE COMPARTMENT HANDLE

If necessary, the baggage compartments of the X3-45 Coach provide 406 ft³ (11.5 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.



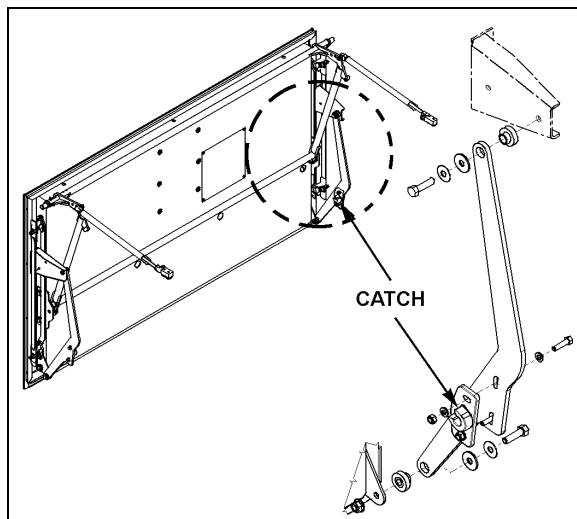
BAGGAGE DOOR LOCK AND LEVER 18043

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.

**CAUTION**

Do not slam shut the baggage compartment doors. Damage to door weather-stripping or locking mechanism could result.

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



BAGGAGE DOOR CATCH 18612

NOTE

For added safety, open the door until the catch assist in holding the door in the open position.

NOTE

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 & Instruments" chapter.

**WARNING**

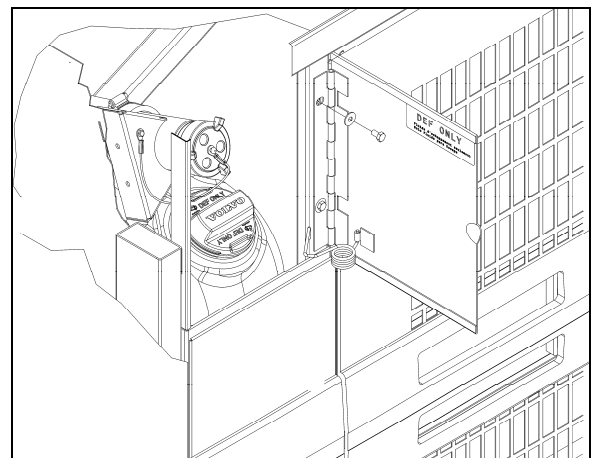
To avoid injury, keep hands clear of baggage compartment door edge and door frame when closing.

NOTE

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

FUEL AND DIESEL EXHAUST FLUID (DEF) FILLER DOOR

The fuel and Diesel Exhaust Fluid (DEF) filler door is located on the R.H. side of the coach providing easy filling. A spring keeps the door either open or shut. The vehicle is equipped with Emco Wheaton POSI/LOCK 105 Automatic DRY-BREAK Fuelling System; the POSI/LOCK Filler Neck Assembly is installed on the fuel tank and requires the use of POSI/LOCK Refueling Nozzle for proper operation.



FUEL & DEF FILLER DOOR 03046

NOTE

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



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).



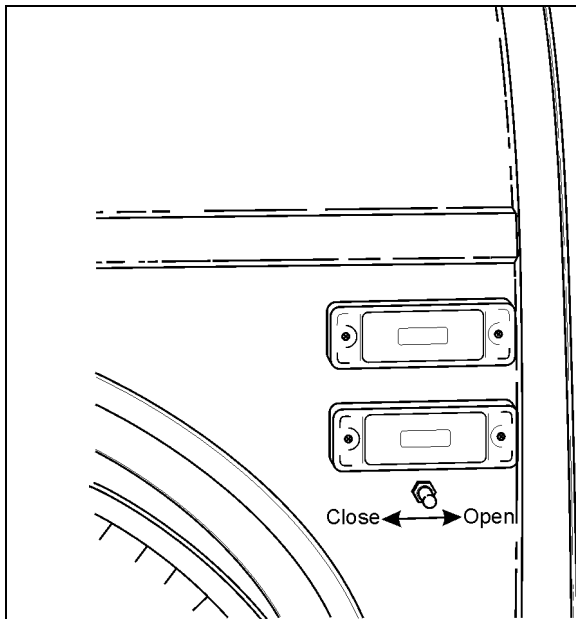
CAUTION

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

BI-FOLD ENTRANCE DOOR

Lock or unlock the bi-fold entrance door from outside the vehicle by turning the key in the door lock (counterclockwise to lock, clockwise to unlock). The entrance door can be unlocked from the inside using the small lever located on the L.H. side panel.

From outside, open the door by pushing the switch forward, close by pushing the switch rearward.

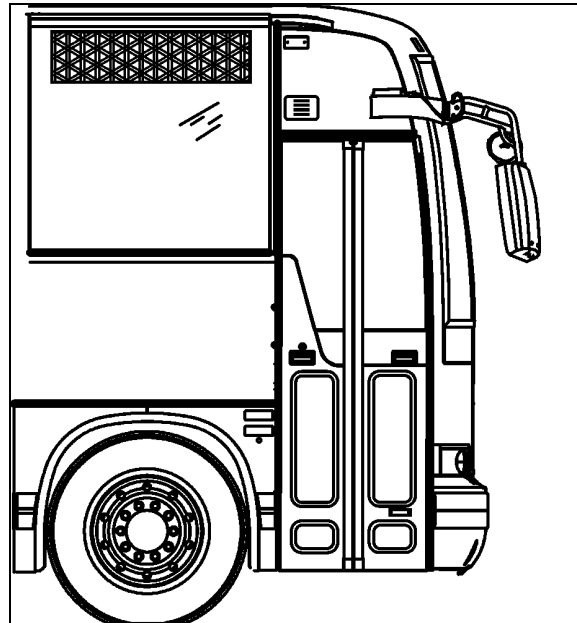


ENTRANCE DOOR EXTERIOR SWITCH

18599

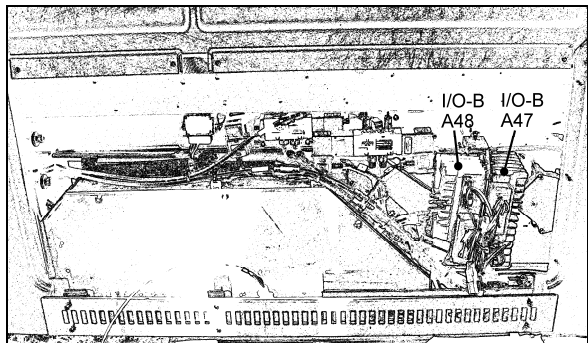
From the inside, open the door by pressing the door opening switch (L.H. button) on the R.H. dashboard panel. The door will open to full open position within 5 seconds.

Close by pressing and holding the door closing switch (R.H. button) on the dashboard. If the closing switch is released before the door is fully closed, the door will stop in that position. Refer to "Controls and Instruments" chapter for more information.



ENTRANCE DOOR

18001



ENTRANCE DOOR & WIPER CONTROL PANEL

06614

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. A proximity sensor will finish the closing of the door when it senses the door is almost shut.

The door can be closed 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 closed. The door can then be closed further by pushing or pulling on the door.

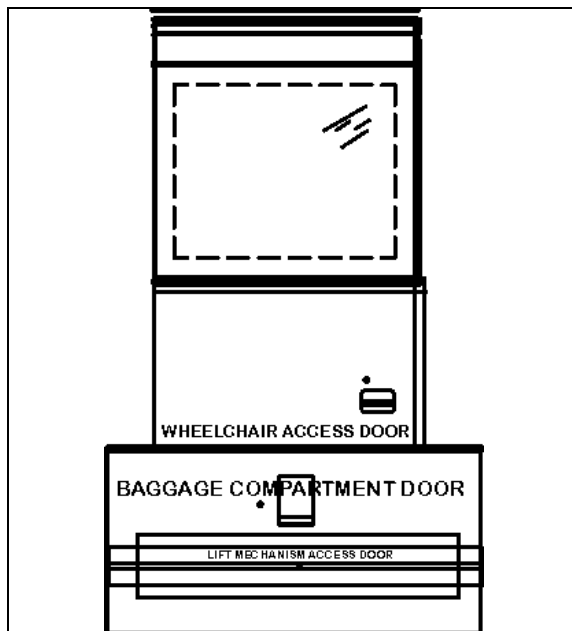
The door closing switch flashes when the vehicle speed is below 3m/hr (5 KM/h) to indicate that the interlock is disabled and that the door can be opened.

EMERGENCY ENTRANCE DOOR OPENING

Refer to “Safety Features and Equipment” chapter.

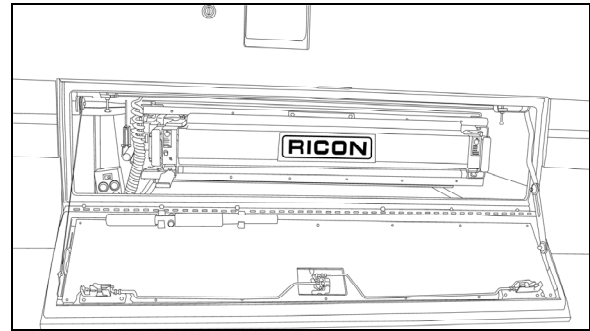
WHEELCHAIR LIFT ACCESS DOORS

To open the optional wheelchair lift access doors, the coach must be parked on a flat and level surface with the parking brake on. The wheelchair access door swings to the side and is maintained open by a locking mechanism. 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.



WHEELCHAIR LIFT ACCESS DOORS

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. If the parking brake is not activated, a switch in the door will activate the parking brake when it detects the door is open. Refer to “Other Features” for more information on operating the wheelchair lift.

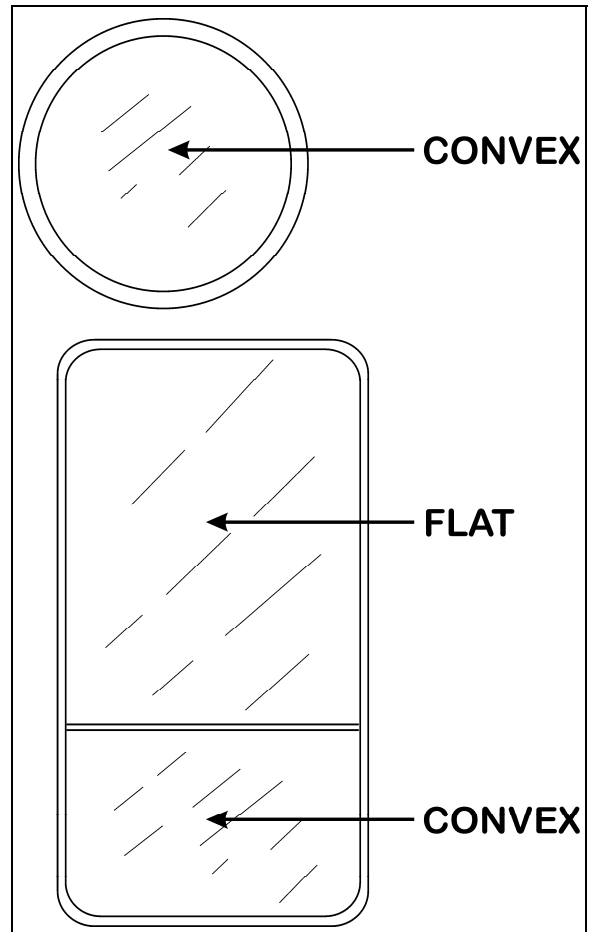


OPENING LIFT MECHANISM ACCESS DOOR

18616

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.



REAR VIEW MIRRORS

L.H. and R.H. side mirrors are basically the same except that the R.H. side mirror support arm is also equipped with a round convex type mirror to provide better visibility in front of the vehicle R.H. side corner.



CAUTION

Round convex type mirror is not adjustable.

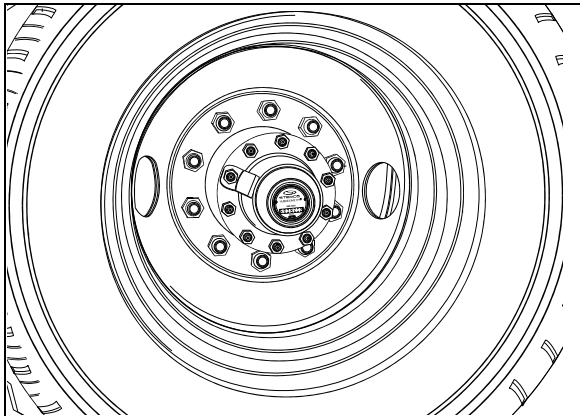
The mirrors are adjusted using the controls located on the L.H. control panel. Refer to "Controls & Instruments" chapter. Manual adjustment is also possible.

HUBODOMETER

An odometer is installed on the curb-side drive axle wheel hub. The odometer calculates the total distance in miles or kilometers (depending on 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.



HUBODOMETER

13012