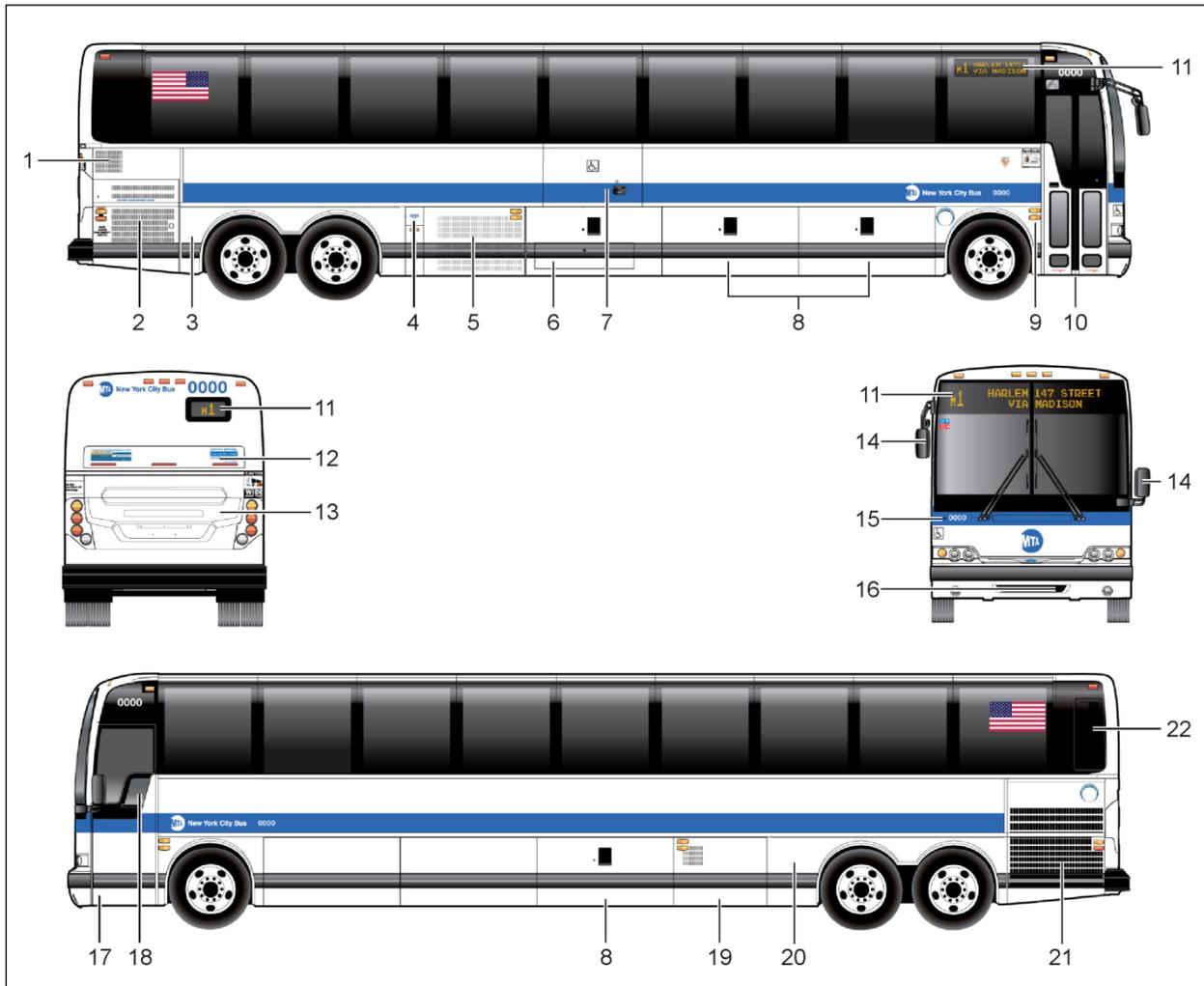


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2-2 COACH EXTERIOR

X3-45 COMMUTER EXTERIOR VIEWS

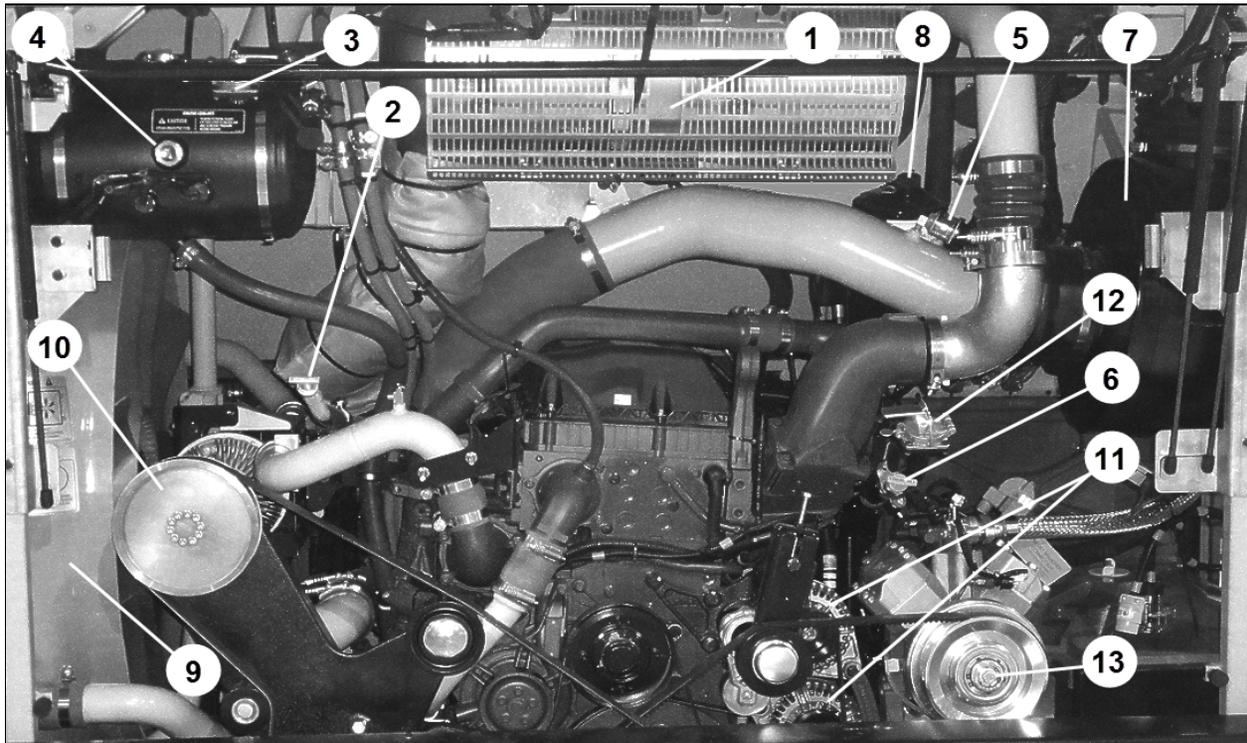


X3-45 EXTERIOR VIEW (TYPICAL)

18606

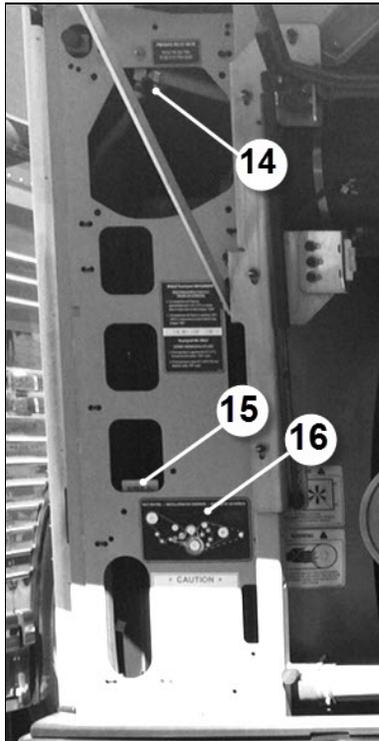
- | | |
|---|--|
| 1. Engine air intake | 12. Exhaust aftertreatment system access door |
| 2. Engine compartment curbside door | 13. Engine compartment rear door |
| 3. Hinged rear fenders | 14. Rear-view mirrors |
| 4. Fuel filler neck & DEF filler neck door | 15. Transmission retarder off indicator light |
| 5. Condenser compartment | 16. Front towing air supply connectors access door |
| 6. Lift mechanism access door | 17. Front electrical and service compartment |
| 7. Wheelchair access door | 18. Driver's power window |
| 8. Baggage compartment | 19. Evaporator compartment |
| 9. Entrance door control switch | 20. Coolant heater & air dryer compartment |
| 10. Bi-fold entrance door | 21. Radiator door |
| 11. Electronic destination sign or route number | 22. SCR converter access door |

ENGINE COMPARTMENT OVERVIEW



ENGINE COMPARTMENT FEATURING VOLVO D13 ENGINE

01184



ENGINE COMPT. LEFT SIDE VIEW

1. Diesel Oxidation Catalyst (DOC) & Diesel Particulate Filter (DPF)
2. Allison 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. Air filter;
8. Power steering fluid reservoir
9. Radiator fan shroud
10. Radiator fan drive mechanism
11. Alternators
12. Engine oil filler tube
13. A/C compressor
14. Coolant fluid pressure relief valve
15. Radiator door opening lever
16. Belt routing tag

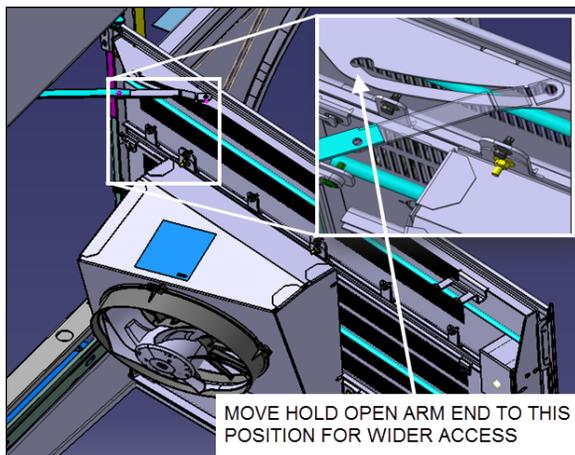
ENGINE COMPARTMENT

ENGINE COMPARTMENT CURBSIDE DOOR

This door can be open using the exterior compartment key.

The engine compartment curbside door offers two different opening amplitudes, one for normal access and the second when wider maintenance access is needed. This door provides access to the following:

- Booster terminals;
- Engine compartment rear door release handle;
- Engine block heater 120-volts connector;
- Battery charger 120-volts connector (on curbside door);
- Rear electrical panel;
- Rear junction panel;
- Battery compartment with main circuit breakers;
- Air system fill valve;
- Curbside door cooling fan.



ENGINE COMPARTMENT CURBSIDE DOOR

18559_3



WARNING

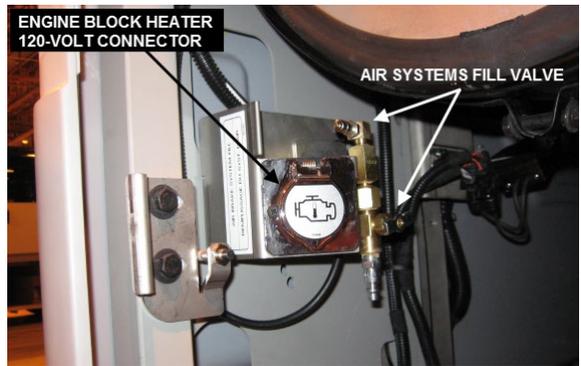
AUTOMATIC FAN DRIVE

Keep clear of curbside door cooling fan when engine is running. Fan may engage without warning.



ENGINE COMPARTMENT R.H. SIDE

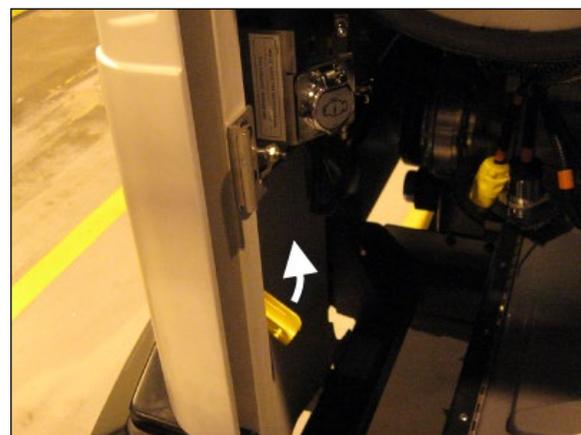
18607_2



ENGINE BLOCK HEATER 120 VOLTS CONNECTOR

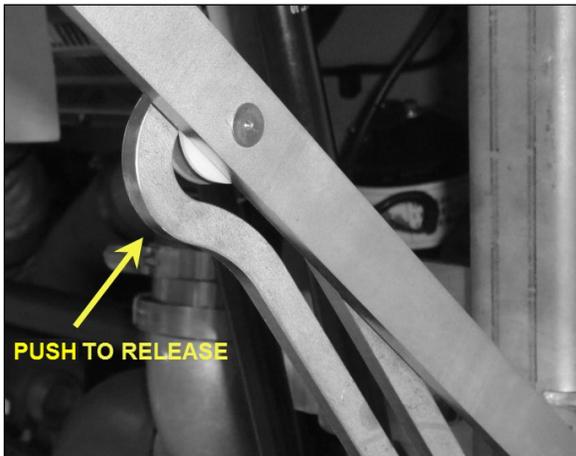
ENGINE COMPARTMENT REAR DOOR

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



OPENING ENGINE COMPARTMENT REAR DOOR

A catch engages to maintain the door in the full open position. To close the door, slightly lift up the door and release the catch before firmly shutting down the door.



REAR DOOR SAFETY CATCH

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



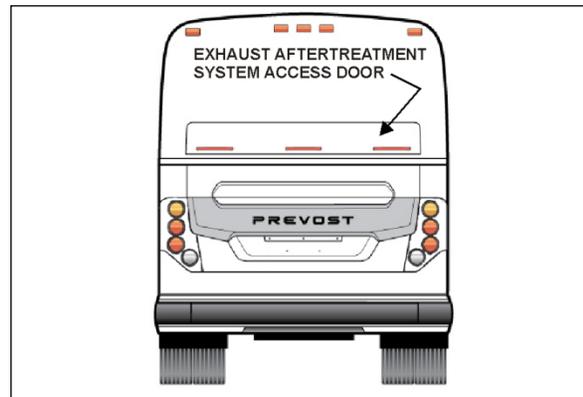
WARNING

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.

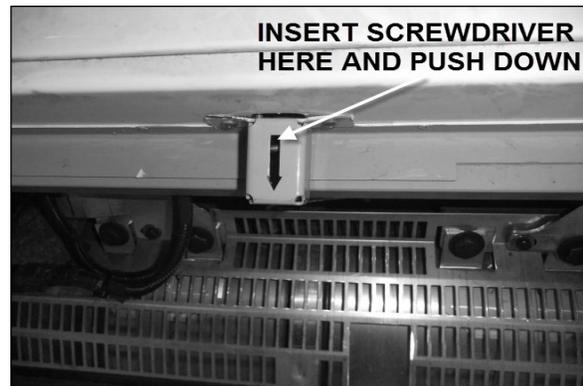
The door swings out to provide access to the following:

- Engine;
- Alternators;
- A/C compressor;
- Rear Gauge;
- Engine starting selector (refer to section; Starting and Stopping Procedures);
- Coolant line shutoff valves;
- Certification plates;
- Engine coolant surge tank and filler cap;
- Air filter restriction indicator;
- Engine oil dipstick and filler tube;
- Power steering fluid reserve tank;
- Allison transmission fluid dipstick;

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.



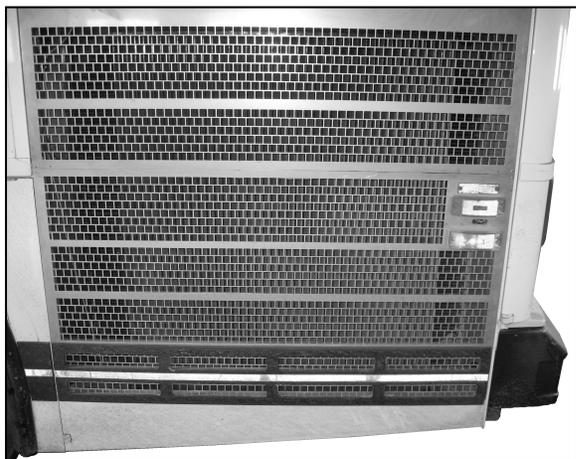
To close the door, lower the door and push against the release lever spring to latch the door shut.

ENGINE RADIATOR DOOR

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



RELEASE LEVER



RADIATOR DOOR
18560
SCR CONVERTER ACCESS DOOR

To gain access to the SCR 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.

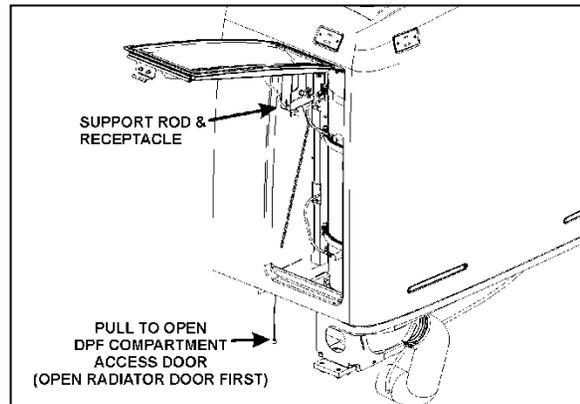
Hold the door open by inserting the support rod free end into the receptacle located on the left side of the DPF.



UNLOCKING SCR CONVERTER ACCESS DOOR

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.



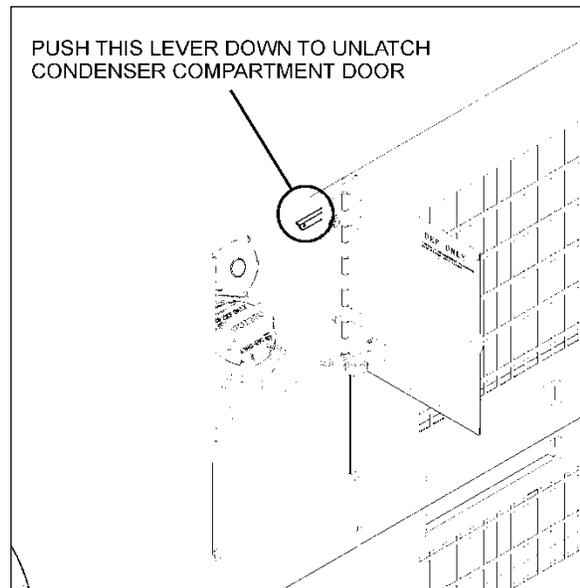
ACCESS TO THE SCR CONVERTER 04023

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)

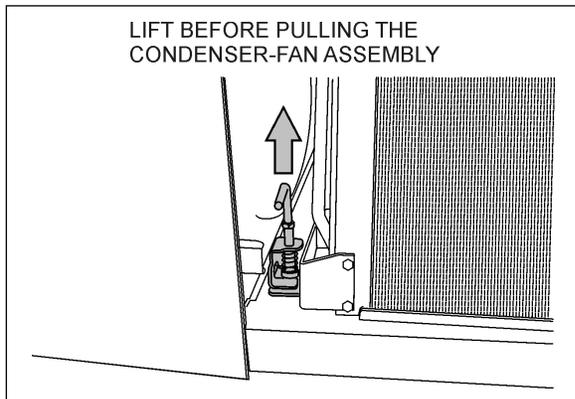
Open the fuel filler neck access hatch and push the lever down to unlatch the condenser compartment door.



OPENING 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;



PULLING THE CONDENSER-FAN ASSEMBLY

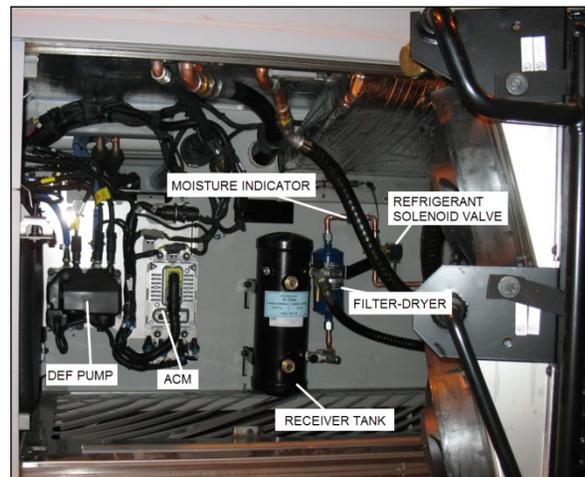


CAUTION

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)

22299

EVAPORATOR COMPARTMENT

The evaporator compartment door release latch is located in the baggage compartment located to its left. Pull the release latch then slide your hand in the opening to depress the evaporator compartment door secondary lock and swing open.

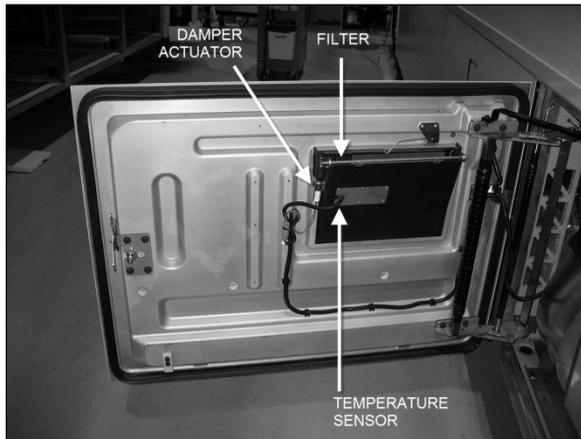


EVAPORATOR COMPARTMENT DOOR RELEASE LATCH

OPENING THE EVAPORATOR COMPARTMENT DOOR

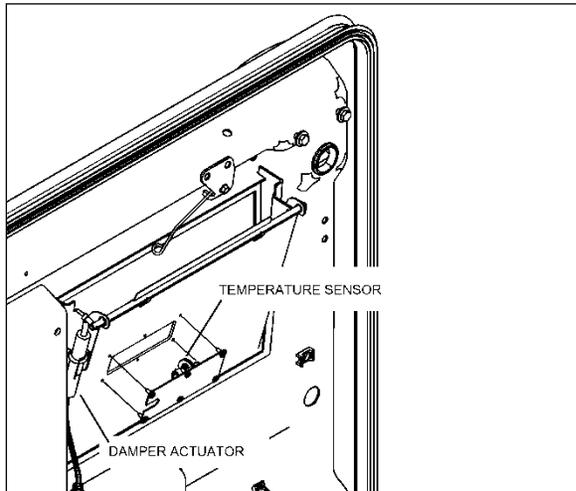


EVAPORATOR COMPARTMENT DOOR SECONDARY LOCK LEVER



EVAPORATOR COMPARTMENT DOOR

The door features a recirculation damper actuator, a temperature sensor and a cleanable filter.



RECIRCULATION DAMPER AND TEMP. SENSOR 22302_A

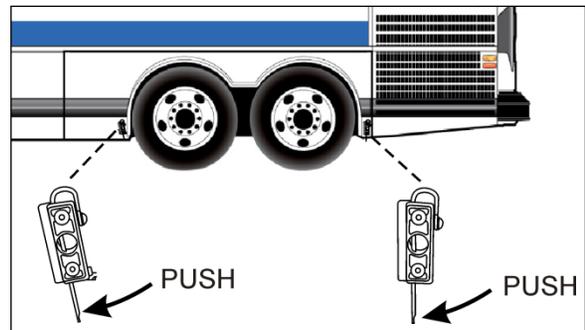
COOLANT HEATER COMPARTMENT

The hot water recirculating pump and the air dryer are found inside this compartment located aft of the evaporator compartment. To gain access, lift the rear fender.



COOLANT HEATER COMPARTMENT

Rear fenders are hinged for maintenance on brakes and suspension. Each rear fender panel has two mechanical spring loaded holding devices fixing it to the vehicle's structure. Push the rod sideways to disengage the lock.

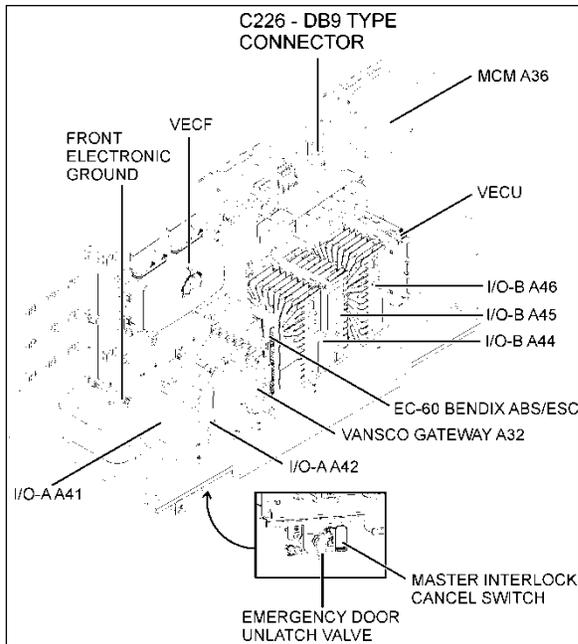


LIFTING REAR FENDERS

FRONT ELECTRICAL AND SERVICE COMPARTMENT

Use the exterior compartment door key to open the front electrical and service compartment door from outside the coach. The front electrical and service compartment provides access to the following:

- Front terminal block;
- VECU;
- Vehicle Electrical Center Front (VECF), MCM and Multiplex Modules;
- C226 connector (MCM) type DB9 for laptop diagnostic tool;
- Relays and fuses;
- Tag axle control valve;
- ABS Electronic Control Unit (ECU);
- Emergency door unlatch valve;
- Master Interlock cancel switch;
- Windshield washer reservoir;
- Accessories system fill valve;
- Accessories air tank pressure relief cock;

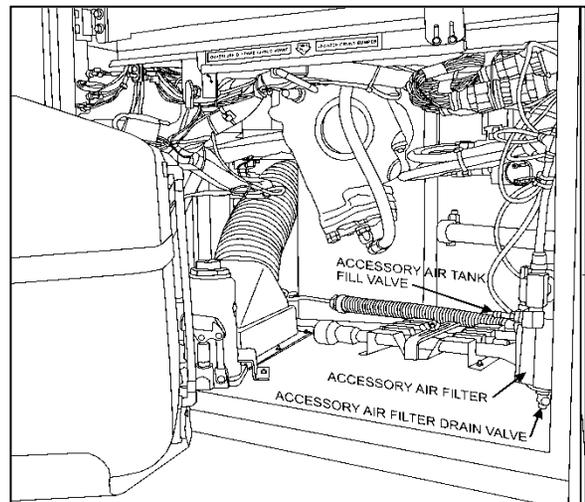


FRONT SERVICE COMPARTMENT ELECTRICAL PANEL



FRONT SERVICE COMPARTMENT

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



FRONT SERVICE COMPARTMENT

18611

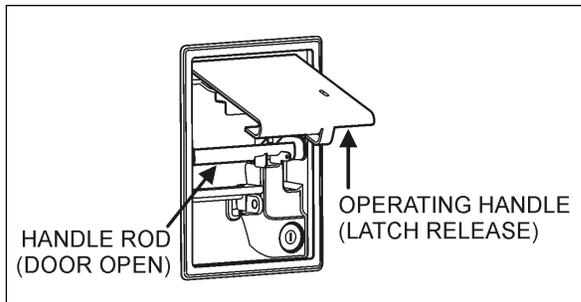
BAGGAGE COMPARTMENTS

The compartments can be locked or unlocked by using the provided "GM" key. The baggage compartments may also be locked using a seal on the operating handle.

2-10 COACH EXTERIOR

Note that the two front compartments are only accessible from curb side while the third rear is accessible from both sides.

Lift up operating handle to release the latch, and then pull the door open by the handle rod. Pressurized cylinders assist the opening and closing of the baggage compartment doors and hold the doors open.



BAGGAGE DOOR LOCK AND LEVER

18693

To close, pull down the door 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.

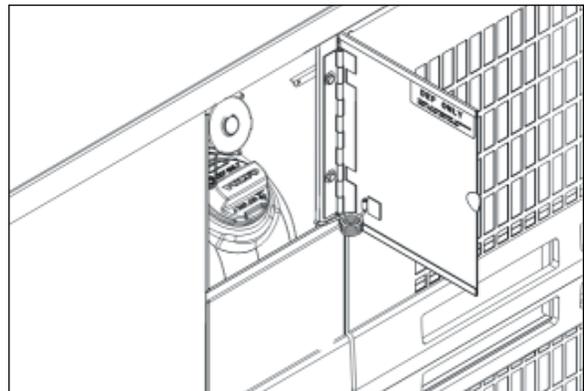


WARNING

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

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).

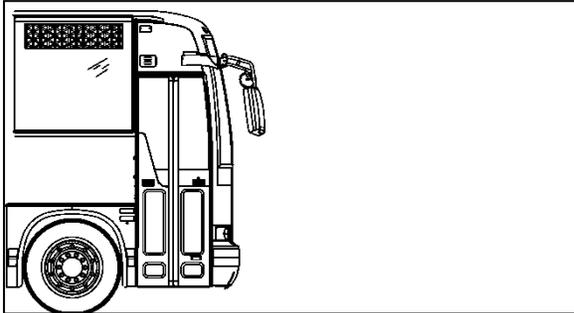


CAUTION

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 door.



ENTRANCE DOOR 18001

Opening door

Opening the door requires only one push on exterior or interior door operating buttons. The door will open to full open position.

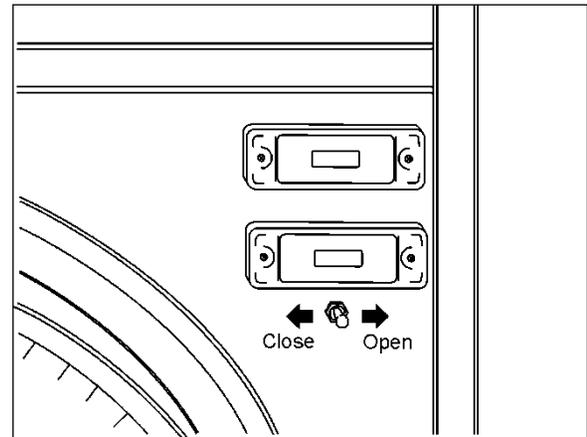
Closing door

To close the door, **push and hold** the exterior or interior door operating buttons. The door can be closed to any position by releasing the operating button when the desired position is attained. However, the door is not locked in any position other than fully closed. The door can therefore be closed further or opened by pushing or pulling on the door by hand.

NOTE

The interior and exterior door operating buttons are disabled when the ignition is set to the OFF position for more than 15 minutes. To reactivate, press and hold the exterior button in the open position.

The exterior door operating button is disabled when the ignition is set to the ON position.



ENTRANCE DOOR EXTERIOR SWITCH 18599

Door Operation Logic

Once the door is fully open or closed, the system holds pressure in the door cylinder, holding the door in that position.

The interior door opening button flashes when the vehicle speed is below 3 mph to indicate that the driver is allowed to open the door.

Emergency Entrance Door Opening

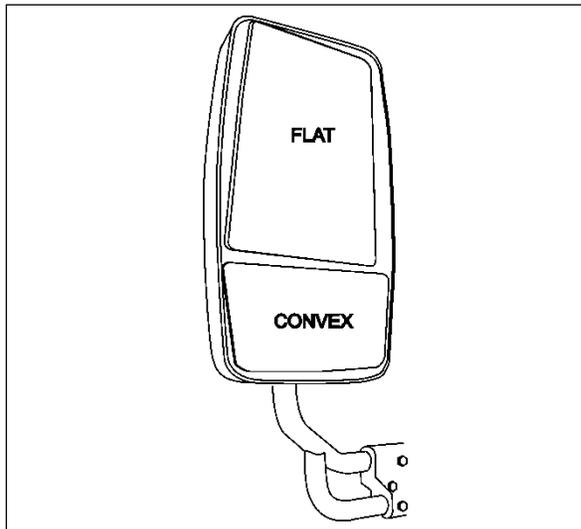
Refer to “Safety Features and Equipment” section.

WHEELCHAIR LIFT ACCESS DOORS

Refer to “Other Features” for more information on operating the wheelchair lift.

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 (R.H. SHOWN)

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.

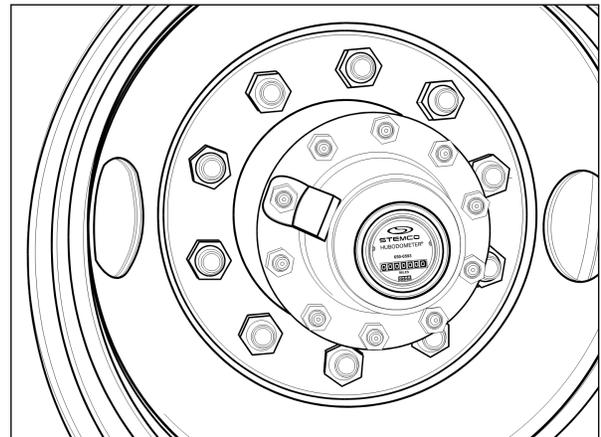
The mirrors are adjusted using the controls located on the L.H. control panel. Refer to "Controls & Instruments" section. Manual adjustment is also possible.

HUBODOMETER

An odometer is installed on the curbside drive axle wheel hub. The odometer calculates the total distance 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