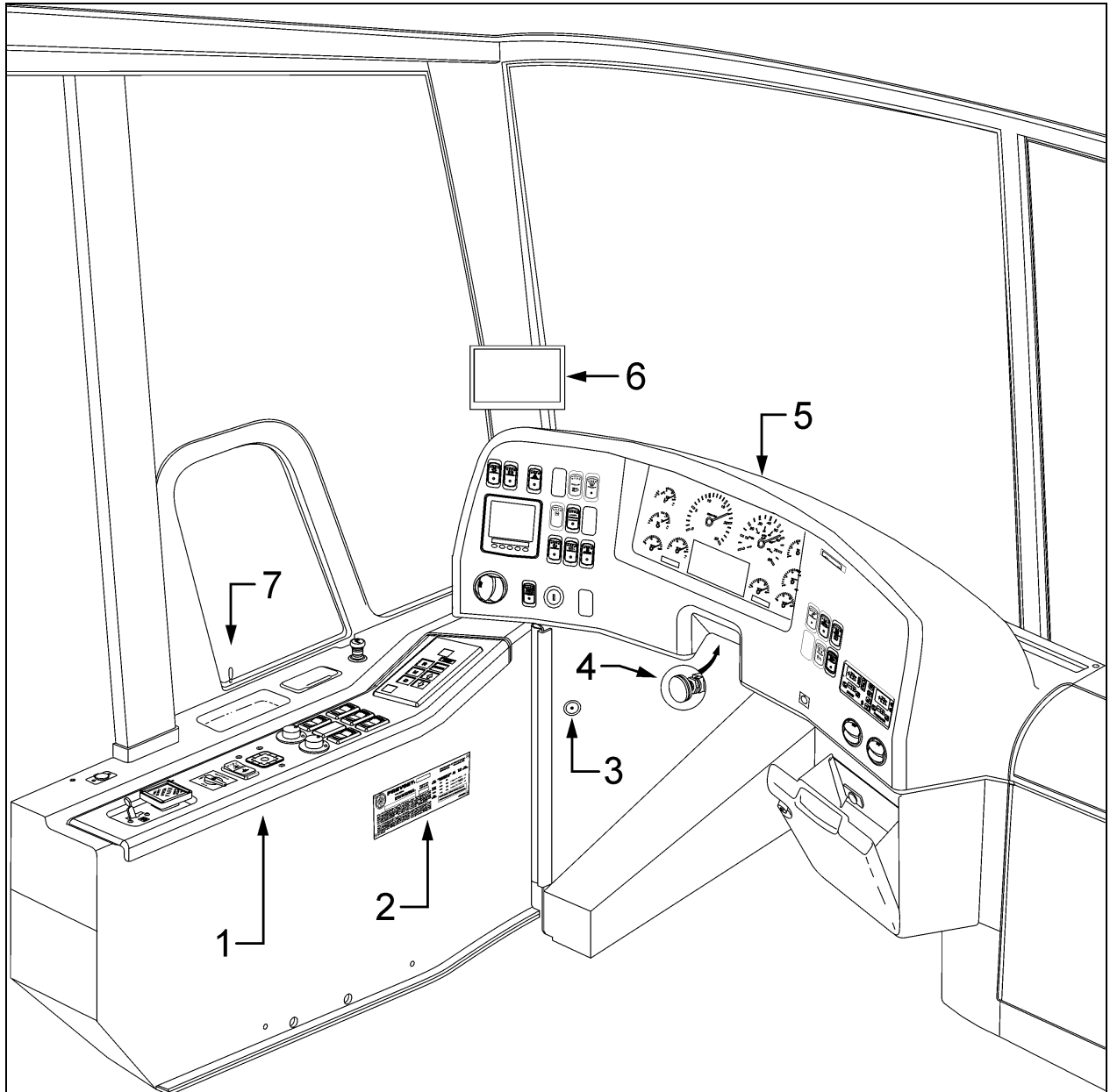


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DRIVER'S AREA

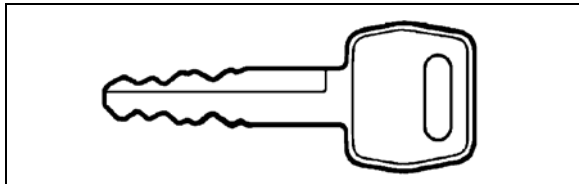
18563

1. Lateral control panel
2. DOT certification plate
3. Diagnostic Data Reader (DDR) receptacle
4. Foot operated steering wheel adjustment unlock air valve
5. Dashboard
6. Rear view TV monitor (optional)
7. Front service door unlocking pull-rod

KEYS

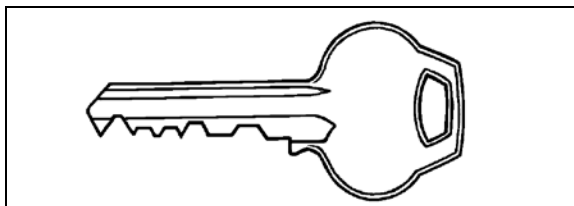
Four different key models are provided with the vehicle:

EXTERIOR COMPARTMENTS KEY



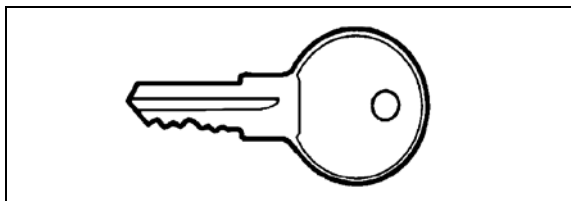
Use one of the two exterior compartment keys provided to lock or unlock any exterior compartment door, including the electrical or service compartment doors, but excluding the fuel tank filling access doors. It is also possible to lock or unlock the baggage compartments and service compartments from the inside by means of a switch located on the dashboard.

ENTRANCE DOOR KEY



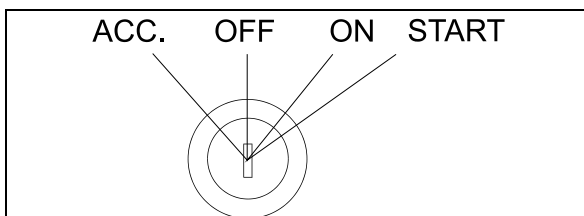
Use the entrance door key to lock or unlock the door from the outside. It is also possible to lock or unlock the entrance door using the exterior compartment door lock, the entrance door unlocking switch or using the keyless entry system.

FUEL FILLER DOOR KEY



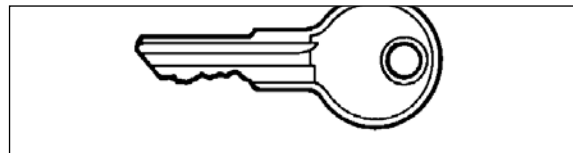
Use this key to lock or unlock the fuel filler door.

IGNITION SWITCH



The ignition switch doubles as the battery master switch. Any position other than OFF activates the battery electrical circuit. The battery electrical circuit is also activated when the hazard switch is depressed.

Use the ignition key to activate the battery electrical circuit by turning it counterclockwise to the ACC position.



IGNITION KEY

23056

To start the engine, turn the key clockwise to the START position, and then release it. The key will set to ON position.



CAUTION

When the vehicle is parked overnight or for an extended period of time, the battery master switch (ignition switch) should be set to the OFF position.

NOTE

When the battery master switch (ignition switch) is set to the OFF position, all electrical supply from the batteries is cut off, with the exception of battery equalizer check module, ECM ignition and power supply, TCM power (Allison Transmission), coolant heater electronic timer, coolant heater and water recirculating pump, pro-driver, power-verter, keyless entry system and fire alarm.

NOTE

For your protection against theft, record the key numbers and keep this information in a safe place. Do not keep these records inside vehicle. It is also advisable to deposit a duplicate of each key in a safe place, so they can be obtained without difficulty in case of an emergency or loss.

The ignition switch is located on the lower left side of the dashboard. It has four positions:

Off

In the OFF position, ignition cannot take place. The key can be removed in this position.

The electrical circuits are not activated when the switch is in this position. Only the accessories connected directly to the batteries can be

activated. These are: the coolant heater and water pump, the keyless entry system and anti-theft alarm, the central locking system, entry lights electric horn and Driver Information Display (DID). Maintain the switch in this position when parked overnight or for an extended period.

Accessories

To operate the accessories only, turn the ignition key counterclockwise. The key cannot be removed in this position.

The battery electrical circuits are activated when the switch is in this position or when the hazard flashers are activated.

The features enabled when the key is in the ACC position are all those linked directly to the battery plus the exterior temperature display, the radio or entertainment system, exterior and interior lighting.


On

To place ignition switch to ON, turn the key clockwise to the first position. The key cannot be removed in this position.

The electrical circuits activated are the same than when the switch is in the ACC position plus the transmission, engine and accessories, ABS system, wipers, level low system, dashboard cluster gauges and buzzers, air horn and air dryer heater are activated when the key is in this position. Do not leave the key in this position unless the engine is running.

Start

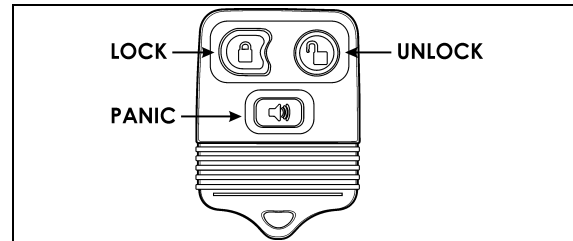
Turn the key clockwise to the second position and release as soon as the engine starts. The key will return to the ON position. If the engine did not start, return the ignition key to the OFF position before trying to restart the engine.

	<p>CAUTION</p>
<p>To avoid overheating the starter, do not engage the starter for more than 15 seconds at a time. Allow the starter to cool before trying to restart the engine.</p>	

The features activated when the engine is running are all those described above plus the HVAC system and day time running lights. The optional ether cold-start system is automatically deactivated once the engine runs.


REMOTE ENTRY TRANSMITTER

Up to four hand held (electronic key) transmitters can control electronic door lock system.




REMOTE ENTRY TRANSMITTER 23383

To lock the entrance door and the baggage compartment doors simultaneously and arm the intrusion protection and anti-theft system:

- Press LOCK  on the transmitter once.

<p>NOTE</p> <p><i>The intrusion protection and anti-theft system will be set after a 30 seconds delay.</i></p>


To confirm that the entrance door and baggage compartment doors have been locked and that the intrusion protection and anti-theft system is armed:

- Press LOCK  again within five seconds of the first lock. The front and rear side markers will flash once if the doors have locked. If the entrance door or one of the baggage compartment doors is open, a door ajar signal prevents arming of the system.


To unlock the entrance door:

- Press UNLOCK  on the transmitter. This will unlock the door and disarm the intrusion protection and anti-theft system.


To unlock the baggage compartment doors:

- Press UNLOCK  a second time within five seconds of the first unlock.

To set off the personal security alarm:

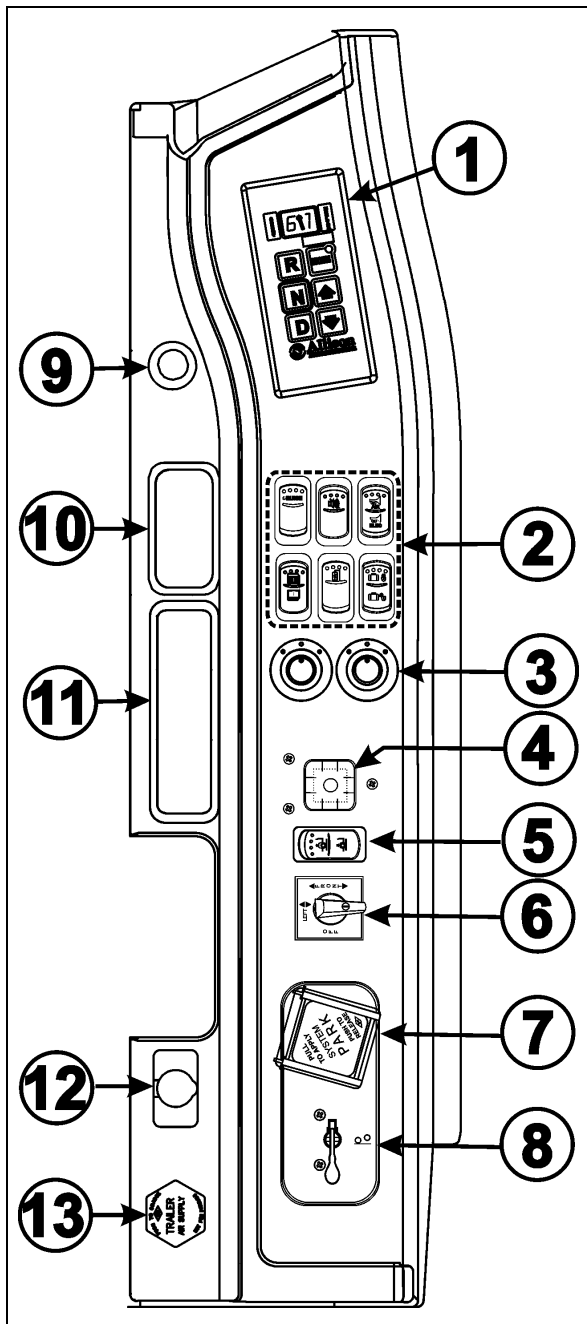
- Press the red PANIC  button on any transmitter. The horn will sound and the marker lights will flash for a maximum of three minutes.

To deactivate the personal security alarm:

- Press the red PANIC  button again on any transmitter or turn the ignition key ON.

<p>NOTE</p> <p><i>The remote entry features will not function when the ignition is in the ON or ACC. position.</i></p>

LATERAL CONTROL PANEL



L.H. CONTROL PANEL

06721

1. Transmission Control Pad
2. Control Switches
3. Mirror Controls
4. Level Indicator
5. Height Control Switch
6. Level Low Selector Switch
7. Parking Brakes Control Valve

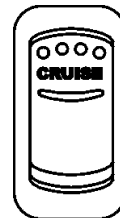
8. Tag Axle Control Valve
9. Cigarette Lighter (Optional)
10. Accessory Pocket or Ashtray (Optional)
11. Accessory Pocket
12. 12 Volt DC Power Outlet
13. Trailer Air Supply Control Valve (Optional)

TRANSMISSION CONTROL PAD (1)

The control pad for the transmission is located as shown. Refer to "Automatic Transmission" in this chapter for operating instructions and more information.

CONTROL SWITCHES (2)

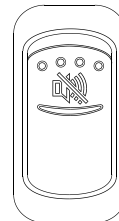
Cruise Control Switch



06701

For operation of the cruise control, refer to "Regular Cruise Control" or "Prevost Aware Adaptive Cruise Braking" paragraph in this chapter

Back-up Alarm Cancel



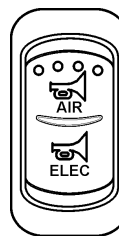
06311

Press down this switch to cancel the Back-Up Alarm.

NOTE

After use, return to normal operation.

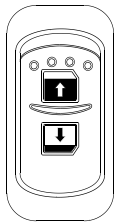
Horn Selector



06700

Use this switch the toggle between the air horn and the electric horn when pressing the steering wheel center pad.

Power Window Switch



06338

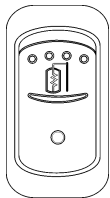
Use this rocker switch to open or close the driver's power window.



CAUTION

Close power window when parked or leaving the coach unattended.

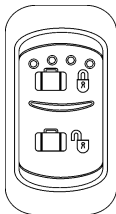
Outside Rear View Mirror Heat (Optional)



06261

Press this rocker switch to clear fog, frost or thin ice from outside mirror.

Central Locking System



06266

This system enables locking all baggage compartment doors by pressing the switch forward. To unlock, press the switch rearward.

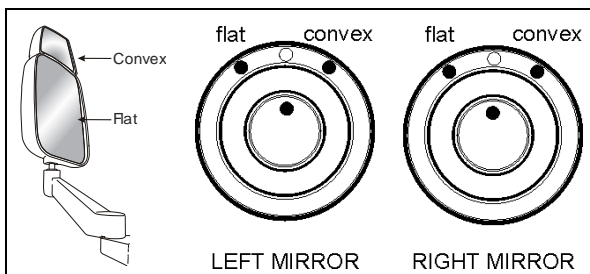
NOTE

Service compartment doors are not linked to the central locking system.

NOTE

Doors must be unlocked using the key first, they can then be unlocked or locked using the central locking system.

MIRROR CONTROLS (3)



MIRROR CONTROLS

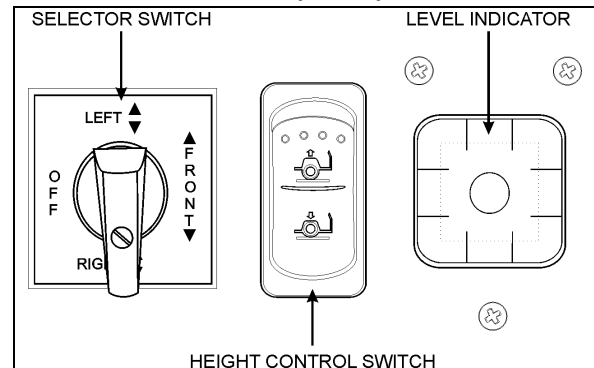
06374

Turn left pointer knob counterclockwise for outside flat mirror adjustments and to the right for convex mirror adjustments, then use the joystick control to adjust the selected mirror's viewing angle. Adjust the right outside mirror similarly but by using the right side control.

NOTE

If the mirror assemblies on your vehicle do not include convex mirrors, only one (1) mirror control knob will be installed for both mirrors. To operate, turn pointer knob to the left for L.H. mirror adjustments and to the right for R.H. mirror adjustments, then use the joystick control to adjust the selected mirror's viewing angle.

LEVEL LOW SYSTEM (4, 5, 6)



LEVEL LOW SYSTEM CONTROLS

16094

When driving, the conventional air leveling system of the vehicle controls the height at three points: the front, the left rear and the right rear. Your vehicle is equipped with a suspension system that consists of air springs (pressurized air bellows) located near each wheel. The amount of air in each air spring (and thus the vehicle height) is controlled by automatic leveling valves that operate between the chassis and the axles of the vehicle.

The three leveling valves are located as follows: one at the front which controls the amount of air in both front air springs, one at the left rear which controls the left rear corner of the vehicle and one at the right rear which controls the right rear corner of the vehicle. During normal driving, these valves work automatically to maintain the chassis at the proper level above the axles, indifferent of road conditions or vehicle weight.

NOTE

Prevost vehicles are designed to operate within specific weight load/ranges for each axle (GAW) and for total vehicle weight (GVW). If the coach is heavier than the design limits, Level Low System (LLS) components damage and problems can occur.

30 Controls and Instruments

When parked, and **ONLY** when parked, the level of the vehicle can be manually adjusted within the range of travel of the air springs. Thus, if the vehicle is parked on uneven ground, the manual override leveling system can be used to level the chassis of the vehicle. With the ignition ON (engine running or not), turn the selector switch located on L.H. side control panel to the area of the vehicle requiring leveling, then press the rocker switch accordingly (up or down) to inflate or deflate the selected set of air springs. The front position raises or lowers the front only and does not tilt the vehicle to its sides. Each rear position raises or lowers its respective side, therefore, the rear positions can be used to tilt the vehicle to one side or the other, or they can be used to raise or lower the rear of the vehicle. When leveling, it is often necessary to run the engine in order to get an adequate air supply.

NOTE

For maximum ease of ingress and egress as well as for maximum leveling range, lower the vehicle completely before leveling.

NOTE

It is always better to first level the rear of the vehicle (right to left) before raising or lowering the front. After adjusting the rear, watch the level indicator as you adjust the front. If the level indicator shows that the vehicle is starting to tilt to either side, stop adjusting the front as one of the air springs has come to the end of its travel range.

After manual leveling, turn OFF the engine. The vehicle will stay in the leveled position (the air is "locked" in the air springs) as long as there are no air leaks. The vehicle will hold this position for several days. When engine is restarted, with the level selector switch in the OFF position and air pressure is adequate, the vehicle will automatically level itself for driving conditions.



DANGER

Do not drive the vehicle with the level low selector switch in any position other than OFF, as this may render the vehicle unsafe and uncontrollable. If this is the case, the Level Low warning telltale light in the dashboard will flash, reminding you that the selector is not in the OFF position.

NOTE

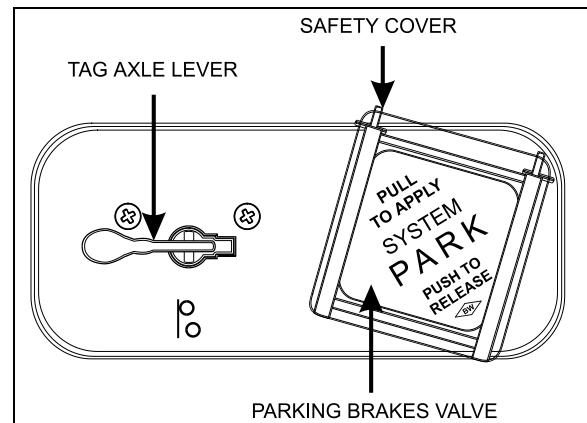
If, for any reason, you wish to start the engine without moving the vehicle (to warm up the engine for instance) while keeping the vehicle in the manually leveled position, place selector switch in any position except OFF. When ignition switch is turned to the OFF position, reset the selector switch to the OFF position.

PARKING BRAKES CONTROL VALVE (7)

Spring-loaded parking brakes are applied by pulling up the control valve knob and protector assembly. Lift the safety cover and push down to release brakes. Refer to "Emergency and Parking Brakes" in "Chapter: Emergency Features and Safety Equipment".

TAG AXLE CONTROL VALVE (8)

Lift the tag axle by pushing the lever forward. Pulling the lever back will lower the tag axle. Refer to "Other Features" chapter for additional information.



CONTROL VALVES

12177

CIGARETTE LIGHTER (9)

Push lighter in to activate. When ready to use, it will spring out automatically. Replace lighter in non-activated position. The cigarette lighter socket can be used to power 12-volt appliances (e.g. flashlight, vacuum cleaner). The maximum power consumption allowed for appliances plugged in this socket is 130 watts. Make sure the appliances are equipped with suitable plugs that will not damage the socket.


NOTE

The cigarette lighter can still be used after the ignition key has been removed.

ASHTRAY (10)

If no ashtray is installed, the space becomes an accessory pocket.

To open the ashtray, push slightly on the cover's side. The ashtray can be removed for cleaning by pulling it out.

 <p>WARNING</p>
<p>To prevent a fire, never put paper or plastic wrappers in the ashtray. Empty ashtray often.</p>

ACCESSORY POCKET (11)

To open the compartment, lift the cover.

12-VOLT DC POWER OUTLET (12)

This socket can be used to power small 12 volt DC appliances such as a cellular phone or a vacuum cleaner. The maximum power consumption allowed for appliances plugged in this socket is 130 watts. Make sure appliances are equipped with suitable plugs that will not damage the socket.

TRAILER AIR SUPPLY CONTROL VALVE (OPTION) (13)

The trailer air braking system is supplied by pushing this control valve.

Diagnostic Data Reader (DDR) Receptacle

To facilitate troubleshooting of the Allison Transmission and ABS systems and to obtain data logged in the ECM (Electronic Control Module) memory, a Diagnostic Data Reader (DDR) (not supplied) can be connected through the DDR receptacle. A user's manual is supplied with the optional DDR.

The DDR receptacle is located inside the footwell, on the upper left side wall.

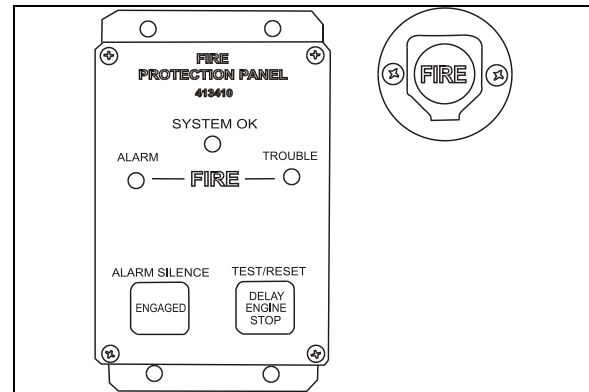
AUTOMATIC FIRE DETECTION AND SUPPRESSION SYSTEM (AFSS)

Protection Panel

The protection panel displays the current system status. The protection panel contains "SYSTEM OK", fire "ALARM" and "TROUBLE" lamps, the audio alarm, the "TEST/RESET" switch, and the "ALARM SILENCE" switch.

The "SYSTEM OK" lamp indicates power is on the system and that there are no trouble conditions present. The "TROUBLE" lamp blinks if there is a fault in the detection circuitry and illuminates solid if there is a fault in the extinguishing circuitry. When the "TROUBLE" lamp is on, the "SYSTEM OK" lamp will be off and the audible alarm will sound intermittently. The "SYSTEM OK" lamp will flash when the system is low on battery power. Depressing the "TEST/RESET" switch tests the protection panel lamps and audio alarm. The "ALARM SILENCE" switch will disable the audio alarm.

When a fire detector automatically detects a fire, the fire "ALARM" lamp and audio alarm activate. When the Manual Activation Switch is activated, the fire "ALARM" lamp blinks and the audio alarm activates. The lamp will remain blinking until power is cycled to the system.



AFSS PROTECTION PANEL & MANUAL ACTIVATION SWITCH

Manual Activation Switch

The manual activation switch allows immediate system activation (extinguisher discharge and engine shutdown) by the operator at any time. Activation of the switch is accomplished by twisting and pulling the tamper seal to remove, lifting the cover and pressing the red "FIRE" button for more than half a second. After the manual activation switch has been activated, the protection panel will blink the fire "ALARM" indicator until power has been cycled to the system.

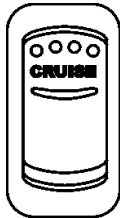
Refer to chapter "SAFETY FEATURES AND EQUIPMENT" for more information on *Kidde Dual Spectrum* Automatic Fire detection and Suppression System (AFSS).

CRUISE CONTROL

Regular Cruise Control

The cruise control allows you to cruise the vehicle at a desired speed over 18 mph (30 km/h) without having to use the accelerator pedal.

Turning the system ON

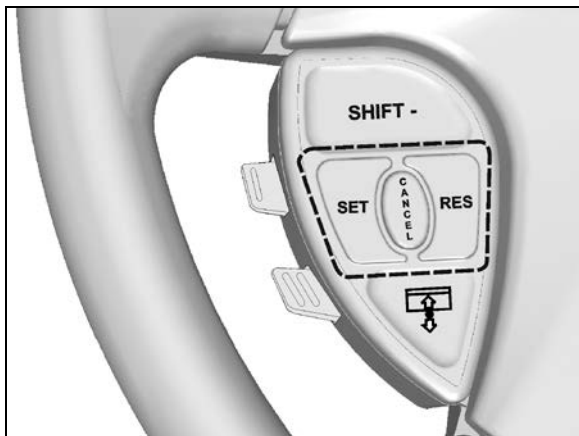


06701

To operate the cruise control, press the **cruise** rocker switch located on the lateral control panel to the on position. This turns the system ON. The dashboard telltale turns on; you can now set the vehicle at a desired cruising speed. To turn off the system, press the rocker switch to the off position.

NOTE

The **cruise** switch and **resume** button do not operate at speeds below 30 mph (50 km/h).



CRUISE CONTROL BUTTONS

Setting at a desired speed

Accelerate the vehicle to the desired cruising speed using the accelerator pedal. Press and release the **SET** button then remove foot from the accelerator pedal. This will set the vehicle cruise speed and store it in memory. The set speed will appear in the driver information display.

Increasing set speed

The vehicle cruise speed setting can be increased by one of the following methods.

1. Accelerate using the accelerator pedal until the desired cruising speed is reached. Press and release the **SET** button.

or

2. Press and hold the **RES** (RESUME) button until the desired cruising speed is reached. When the **RES** button is released, the new cruising speed will be stored in the cruise control memory.

or

3. When driving with cruise control, each time the **RES** button is momentarily depressed, the cruising set speed is raised by 1 mph (2 km/h).

NOTE

When driving with cruise control, the vehicle can still be accelerated by depressing the accelerator pedal in the usual manner. Once the accelerator pedal is released, the vehicle will return to the previously set cruising speed.

Decreasing set speed

The vehicle cruise speed setting can be decreased by one of the following methods.

1. Press and hold the **SET** button until the desired cruising speed is reached. When the **SET** button is released, the new cruising speed will be stored in the cruise control memory.

or

2. Each brief pressing of the **SET** button will decrease set cruising speed by 1 mph (2 km/h).

or

3. Slightly apply the service brake and when desired cruise speed is reached, press and release the **SET** button.

Canceling the preset speed

You can cancel the preset cruising speed by:

1. Pressing momentarily the **CANCEL** button;
2. Depressing the brake pedal.

Resuming Set Speed

If the preset speed is cancelled by pressing the **CANCEL** button or depressing the brake pedal, pressing the **RES** (RESUME) button will restore the speed set prior to cancellation, providing that your speed is above 30 mph (50 km/h).

NOTE

When driving downhill with the cruise control on and set, the engine brake or the transmission retarder engage automatically (if previously activated) when the selected cruise speed is exceeded by approximately:

- 4 mph (7 km/h) with the engine brake activated;
- 0.6 mph (1 km/h) with the transmission retarder activated.
- The engine brake or the transmission retarder is then disengaged when speed has returned near to selected cruise speed.
- The engine brake will provide low braking power or high braking power depending on which of the two steering wheel engine brake control buttons is activated;
- ① = engine brake low
- ② = engine brake high
- The transmission retarder maximum braking level is determined by the retarder hand lever position on the steering wheel.

NOTE

To avoid sudden vehicle hesitation, slightly depress the accelerator pedal before disengaging the cruise control.

NOTE

When the **cruise** rocker switch is released, the cruise control is completely shut off and the cruise speed setting is erased from the cruise control memory.

IMPORTANT NOTE

If the engine was stopped and the cruise rocker switch was in the ON position, the rocker switch must be reset by turning it OFF then ON again in order for the cruise control to be reactivated.

 **WARNING**

Do not use the cruise control when driving speed must be constantly adjusted, such as in heavy traffic or on winding, icy, snow-covered or slippery roads, or on gravel roads.

 **WARNING**

Do not put the transmission in the neutral (n) position while driving with cruise control. This may cause the engine to over-speed and result in a loss of driving control.

Prevost AWARE • Adaptive Cruise Braking

Prevost AWARE Adaptive Cruise Braking (ACB) is an optional cruise control that not only maintains the set speed, but will also intervene, as needed, to help the driver maintain a set following distance behind the forward vehicle by reducing speed as necessary. As soon as the forward vehicle is at a safe distance, the coach will accelerate back to the cruise set speed.

NOTE

The following paragraphs briefly sum up the information concerning the operation and function of the ACB. Before driving the vehicle, be certain that you have read and that you fully understand each and every step of the driving and handling information found in Bendix Wingman ACB Active Cruise with Braking Operator's Manual. The driver should fully understand all the audible alerts and visual indicators that the system provides. Bendix Wingman ACB Active Cruise with Braking Operator's Manual (available on Prevost web site and included on the Technical Publications CD) will assist in explaining what each of them means and what actions the driver may be required to take to avoid potential collisions.

 **WARNING**

Even with ACB, the driver must remain alert, react appropriately and in a timely manner, and use good driving practices. Ultimate responsibility for the safe operation of the vehicle remains with the driver at all times.

Be certain that you have read all safety warnings found in Bendix Wingman ACB Active Cruise with Braking Operator's Manual.

The driver will benefit all the audible and visual warnings that the system provides whether or not ACB is turned on. In addition to the audible and visual warnings, when the ACB is turned on and a cruise speed is set, the driver benefits from active interventions like engine throttle reduction, retarder or engine brake application and service brakes application to help maintain a set following distance.



WARNING

Adaptive Cruise Braking must be used only in the same conditions that are normally recommended for ordinary cruise control. Refer to “Regular Cruise Control” paragraph.

Turning the ACB system ON

Activation of the adaptive cruise braking is similar to the regular cruise control activation. Press the CRUISE rocker switch to the ON position, accelerate the vehicle to the desired cruising speed and then, press the SET button. ACB is now engaged with the set following distance and driver warnings features. Whenever the cruise control is engaged, the ACB is also engaged. You cannot engage the cruise control without also using the ACB features.

Turning OFF the ACB system

You can turn off the ACB system, simply by applying service brakes, setting the CRUISE rocker switch to the OFF position or pressing the cruise control CANCEL button on the steering wheel.

NOTE

Whenever the service brakes are applied by intervention of the ACB or by the driver, normal cruise will automatically be cancelled. The driver must resume or set the cruise mode in order for the vehicle to throttle up.

Maintaining a set following distance

Using a radar sensor mounted to the front bumper, the ACB system measures the distance between the coach and the forward vehicle and intervenes to help maintain a safe set following distance behind the vehicle. This feature engages automatically once the driver turns on and sets cruise speed.

Following distance refers to the time gap, measured in seconds, between the coach and the vehicle ahead. The actual physical distance between the coach and the vehicle ahead will vary based on your set cruise speed; although the set time gap remains the same for all set cruise speeds. Prevost's default set time gap is 1.7 seconds.

With cruise control engaged and a cruise speed set, you are maintaining a set following distance between the coach and the forward vehicle:

- **If the vehicle in front of the coach slows down** below your cruise control set speed, the system will progressively intervene as follows, in this order:
 - 1) reduce the engine throttle;
 - 2) apply the engine brake or transmission retarder;
 - 3) apply about 30% of the service brakes available braking power in an attempt to maintain the set following distance.

The driver must apply additional braking power when required, to avoid collision or to maintain a safe distance from the vehicle ahead.

NOTE

If the ACB is actively decelerating or braking the coach in an attempt to maintain the set following distance at the moment when the driver cancels the ACB system, the ACB system will continue deceleration or braking intervention until a safe following distance is established, then will cancel.

Even though the cruise control doesn't operate at speeds below 30 mph (50 km/h), the ACB system will continue deceleration or braking intervention in an attempt to maintain the set following distance if the coach speed reduces to less than 30 mph (50 km/h).

- **If the vehicle ahead slows below your cruise control's set speed**, but then accelerates away, and the ACB system did not need to use the service brakes as it managed the intervention, the coach will automatically accelerate back to the original cruise control set speed, and again maintain a set following distance behind the forward vehicle.

NOTE

The maximum radar range is approximately 500 feet (150 meters). Rain, snow, fog, ice and other severe weather conditions may affect the performance of the ACB system and shorten radar range.

NOTE

As part of your pre-trip vehicle inspection, check to see that there is no mud, snow, ice build-up or other obstruction in front of the radar sensor. You should inspect the radar sensor mounting and remove any obstruction that may impair the sensor functioning.

Driver warnings

Before using the ACB, the driver should fully understand all the audible and visual warnings that the system provides. Any audible warning (beeping or tone) means that your vehicle is too close from the vehicle ahead.

DASHBOARD TELLTALE

When ACB is turned on and a cruise speed is set, if the forward vehicle is detected (in range) by the radar, the FORWARD VEHICLE DETECTED telltale light on the dashboard will illuminate. This is an indication to the driver that the forward vehicle is being tracked, that the ACB is actively managing the distance between the coach and the vehicle ahead and that the ACB system may automatically intervene to maintain the set following distance.



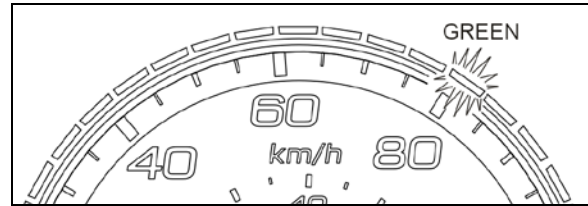
FORWARD VEHICLE DETECTED telltale light

There are three types of warnings with this telltale light:

- Green: The forward vehicle is detected (in range).
- Flashing red: Collision alert. The forward vehicle is too close to follow safely or a metallic stationary object such as a stopped or stalled vehicle in your lane of travel is detected. The driver must intervene to avoid a collision.
- Solid red: ACB system malfunction. The ACB system and the alert functions are not available.

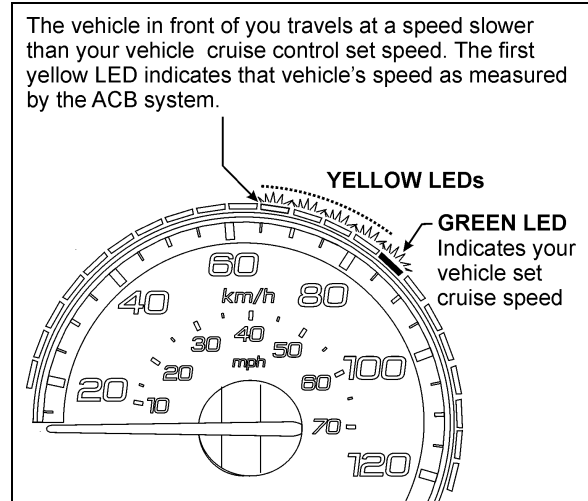
SPEEDOMETER LEDs

With the cruise control engaged and a cruise speed set, a green LED illuminates above the cruise control set speed on the speedometer.



THE CRUISE SET SPEED IS 80 km/h

With a cruise speed set, the vehicle ahead slows moderately. The system will display to the driver the approximate speed of the vehicle ahead with yellow LEDs above the speedometer.



EXAMPLE OF THE SPEEDOMETER LED DISPLAY WHEN THE FORWARD VEHICLE IS SLOWER WHILE THE COACH TRAVELS WITH THE ACB CRUISE CONTROL ON AND SET

06729_3

FOLLOWING DISTANCE ALERT (FDA)

Following Distance Alert provides both audible and visual warnings whenever the distance between the coach and the forward vehicle is less than the set distance and getting closer. Once the audible warning is given, the driver must increase the distance between the coach and the vehicle ahead until the audible warning stops or maneuver clear of the forward vehicle.


WARNING

Following Distance Alert is always active whenever the coach is moving to a speed greater than 37 mph (60 km/h), whether or not ACB is turned on. Active interventions of ACB to maintain safe following distance (throttle reduction, engine brake/retarder application, service brakes application) are only operational when the ACB is engaged with a cruise speed set.

IMPACT ALERT

The Impact Alert warning is the most severe warning issued by the ACB system. This alert indicates that the driver must take immediate evasive action by applying more braking power and/or steering clear of the vehicle ahead to avoid a potential collision.


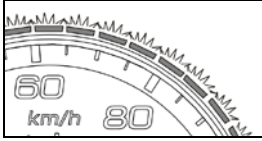
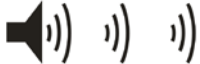
The Impact Alert is also applicable to stationary metallic objects such as stopped or stalled vehicles. This alert provides a warning given up to 3.0 seconds before a potential collision with a stationary metallic object in the coach's lane of travel. The driver can either slow down or maneuver in an attempt to avoid the object. The Impact Alert will only warn and will not actively decelerate or brake the coach when approaching stationary objects.





 WARNING
Impact Alerts are always operational when the vehicle is running, whether or not ACB is turned on. Active interventions of ACB to maintain safe following distance (throttle reduction, engine brake/retarder application, service brakes application) are only operational when the ACB is engaged with a cruise speed set.


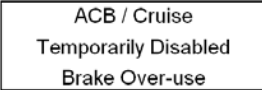

BRAKE OVERUSE WARNING

ACB provides a warning when the system is intervening and using the service brakes excessively. Overuse of the foundation brakes can lead to the brakes overheating and a potential loss of braking performance from brake fade. For example, the use of ACB on downhill runs may cause this alert to be activated. It is recommended that ACB be disengaged on downhill grades. The driver should use appropriate gearing and brake techniques, and not rely on ACB, on downhill grades.

If the driver does not respond to the Brake Overuse Warning after a brief delay, the ACB will switch off.

FOLLOWING DISTANCE ALERT	
CONDITION	The Following Distance Alert feature is only available when the coach speed is greater than 37 mph (60 km/h), whether or not ACB is engaged.
	The forward vehicle is slowing down and the distance between your vehicle the coach and the forward vehicle is less than the set distance
ACTIONS BY ACB SYSTEM	<p>"Distance Alert" pop-up message appears on the DID</p> <div style="text-align: right;">  </div> <p>The speedometer LEDs illuminate in red</p> <div style="text-align: right;">  </div> <p>If the vehicles remain to close from each other for more than 15 seconds, an audible warning will sound (beeping)</p> <div style="text-align: right;">  </div>

IMPACT ALERT	
SITUATION	ACB system detects a risk of collision with forward moving vehicle or a stationary metallic object in your lane of travel.
ACTIONS BY ACB SYSTEM	<p>On the dashboard, the Forward Vehicle Detected telltale flashes in red</p> <div style="text-align: right;">  </div> <p>"Impact Alert" pop-up message appears on the DID</p> <div style="text-align: right;">  </div> <p>The speedometer LEDs flash in red</p> <div style="text-align: right;">  </div> <p>An audible warning will sound (continuous modulating tone)</p> <div style="text-align: right;">  </div>

BRAKE OVERUSE WARNING	
SITUATION	ACB system is using the service brakes excessively to maintain the set following distance (for example, the use of ACB on long, steep downhill runs). Excessive application of the service brakes can cause the brakes to overheat resulting in increasing stopping distances.
ACTIONS BY ACB SYSTEM	<p>After a brief delay, the ACB system will stop functioning and be disabled.</p> <p>On the dashboard, the Forward Vehicle Detected telltale illuminates in red</p> <div style="text-align: right;">  </div> <p>"ACB/Cruise Temporarily Disabled Brake Over-use" pop-up message appears on the DID</p> <div style="text-align: right;">  </div> <p>"ACB Not Available" pictogram appears on the DID status line</p> <div style="text-align: right;">  </div>

SELF-DIAGNOSTIC AT START-UP

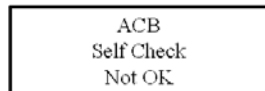
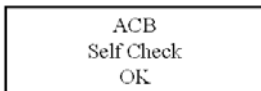
Initiate the self-diagnostic as follows:

- The engine must be running since at least 15 seconds with parking brake applied.
- Trip the CRUISE rocker switch located on the lateral control panel from OFF to ON position.

The following sequence will begin:

1. Pop-up message “Impact Alert” will show in the DID;
2. The speedometer LEDs will flash in red;
3. FORWARD VEHICLE DETECTED telltale will flash in red;
4. The Impact Alert audible alarm will sound.

At the end of the self-diagnostic sequence, pop-up message “ACB SELF CHECK OK” will show on the DID if the system functions properly or “ACB SELF CHECK NOT OK” if a fault condition is detected.



SYSTEM MALFUNCTION

In case of system malfunction, visual warnings will illuminate in the instrument cluster or the driver information display to warn the driver that the ACB is disabled. In that situation, the Impact Alert and Distance Alert functions are not available.

If the ACB is not available, the FORWARD VEHICLE DETECTED telltale light will illuminate in red and will stay on and “ACB NOT AVAILABLE” pictogram will appear on the DID status line.



FORWARD VEHICLE DETECTED telltale light



ACB NOT AVAILABLE pictogram

For proper functioning of the system, the radar must be perfectly aligned and not blocked. If a radar fault condition is detected, one of the following pop-up messages will show in the DID:

ACB RADAR MISALIGNMENT

ACB RADAR FAULT

ACB RADAR DATA LINK FAILURE

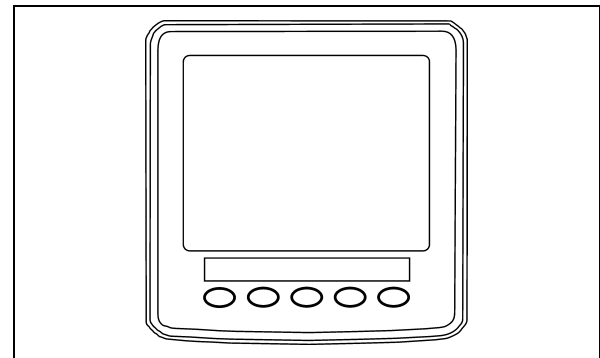
ACB RADAR BLOCKED

TIRE PRESSURE MONITORING SYSTEM (TPMS)

This system is a sensing device designed to identify and display tire operating data and activate an alert or warning when pressure or temperature irregularities are detected.

NOTE

It is the responsibility of the driver to react promptly and with discretion to alerts and warnings. Abnormal tire inflation pressures should be corrected at the earliest opportunity.



TPMS DISPLAY

TPMS Display

The TPMS display knows where the sensors are located. It receives the raw temperature and pressure readings from the TPMS receiver, it reads several signals from the vehicle and does the calculation required to generate the various screens.

When no readings have been received for a tire location or when the received data correspond to a parameter range defined as unavailable, then the reading is considered as not available and appears as two dash lines “_ _”.

The TPMS display is initially configured to define how many axles and running tires are present on the vehicle. For current Prevost vehicle models, there are two axle / tire configurations. These configurations are:

Config 1: Axle 1 (Front) Two tires, Axle 2 (Drive) 4 tires, Axle 3 (Tag) 2 tires.

Config 2: Axle 1 (Front) Two tires, Axle 2 (Drive) 2 tires (super Singles), Axle 3 (Tag) 2 tires.

The TPMS display is also configured with several other parameters, including threshold levels for the alarms.

The TPMS display power supply turns OFF when the ignition key is switched OFF.

Operation

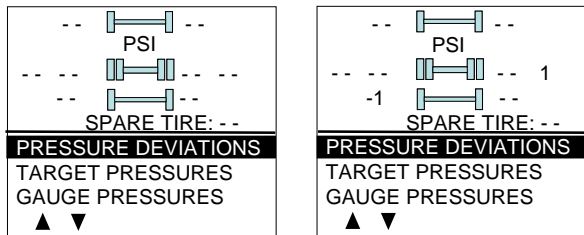
The system will monitor all vehicle tires (6 or 8) plus the spare tire when a spare is supplied.

NOTE
Some vehicle models do not come with a spare tire.

There are two configurations of vehicle tires to be supported. One configuration (the most common) consists of 8 tires total: two tires on the front axle, 4 tires on the drive axle and 2 tires on tag axle. All screen figures shown in this document relates to this vehicle configuration. The second tire configuration consist of 6 tires total: 2 tires on the front axle, 2 tires on the drive axle (super single tires) and 2 tires on the tag axle. The vehicle tire configuration is selected with a parameter (Refer to chapter « SAFETY FEATURES AND EQUIPMENT » for more information). When the display is configured for 6 tires, the drive axle tires appears as one large tire on both side instead of twin tires as illustrated in this document and there is one reading appearing on each side instead of two as illustrated in this document.

Start-up

When turning the ignition switch to ON, the screen shown below appears on the TPMS Display. Dash lines are displayed meaning that no pressure data have been received by the display.

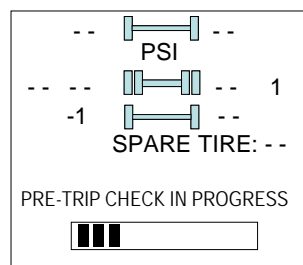


As illustrated, the pressure readings will appear replacing the dash lines as the TPMS display starts to receive pressure data from the TPMS receiver. It can take 1 minute to get all pressure readings updated since the sensors transmit at a one minute interval.

The user can flip through the menus.

Pre-Trip Check

When one of the preconditions defined to start the pre-trip check is met, the TPMS display enters into a pre-trip check routine and the screen shown below appears. The preconditions to initiate the pre-trip are: Park brake removed Or No activity on the display menu keys for a defined time (Key pressed timeout). After a pre-trip, the display is in a “drive” mode with bottom menu replaced by the alarm status. The display remains in this mode until one of the following occurs: A menu key is touched while the park brake is applied, or the park brake does a transition from released to park brake applied.

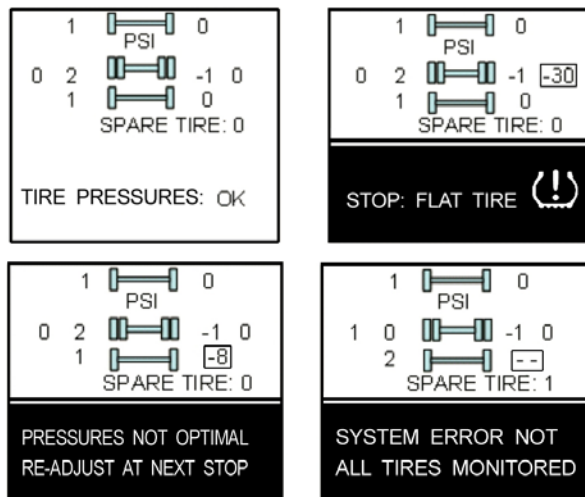


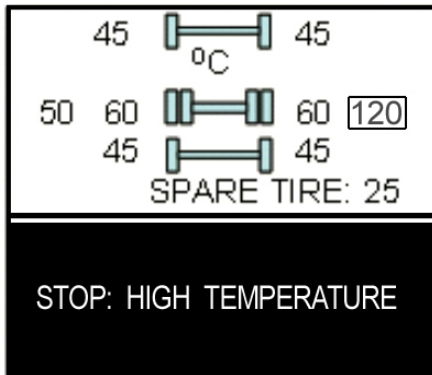
During the pre-trip check, the pressure readings for the different wheels become all available.

The pre-trip check ends, either when the pressure readings have been received for all running wheels or the pre-trip check maximum time has elapsed. It was selected to provide sufficient time for all wheel sensors to wake-up and send a first reading.

The pre-trip check is aborted and the bottom menu reappears if the park brake was active and the user press one of the menu keys.

Upon completion of the pre-trip check, the TPMS display will come up with one of the screens shown hereafter:





A rectangle around each pressure / temperature reading of the tires that have an issue is blinking to draw the attention to the defective tires.

In the case of multiple errors at the same time, the highest priority error is displayed at the bottom. “Flat Tire” has the highest priority followed by “High Temperature”, “Not all tires monitored” and “Tire pressure not Optimal”.

To get the driver’s attention to the alarms, the bottom section of the screen where the alarm message appears will blink to reverse contrast at the following rate: 0.7 sec normal contrast, 0.3 sec reverse contrast. Pressing any key will acknowledge the alarms that are considered as non critical and stop the blinking of these alarms message for the remaining of the trip. The non critical alarms are: “Pressure not optimal” and “Not all tires monitored”. The “flat tires” and “high temperature” alarms are critical and will keep blinking even when a key is pressed. If a different alarm occurs, blinking will start again. The blinking rectangle around the pressure/temperature readings is not impacted by the acknowledgement and keeps blinking until the error condition disappears.

The spare tire does not contribute to alarms and so never blinks.

On the road, the TPMS display shows one of the 5 previous screens.

In the event of a temperature alarm, the display switches automatically to temperature readings.

The driver can also press any of the menu keys to momentarily switch the display to temperature readings. In this case, the temperature reading appears for 15 seconds and the display returns to pressure.

The switching to temperature by pressing a key does not take place if there is an acknowledgeable alarm active, since in this case pressing the key does acknowledge the alarm.

The switching to temperature does not take place either if there is an alarm of Temperature or Flat Tire.

The switching to temperature works when the bottom message indicates either: Tire Pressure OK, Pressure Not Optimal non flashing or not all tires monitored non flashing. When the switch is done to temperature readings, the bottom portion of the screen is not affected and still shows the status message.

NOTE

High temperature is not likely to occur during the pre-trip.

The pressure and temperature readings are continuously updated with the displayed readings of the wheel having issues blinking. The bottom line message is automatically updated to the highest priority alarm prevailing. There is a hysteresis on the alarm levels to assure that the error conditions do not flicker ON and OFF.

On the occurrence of an alarm, a beep will sound. The alarm beep could be turned OFF in the alarm settings menu.

Spare tire:

The spare tire is monitored but it is not taken into account when setting the bottom alarm messages. This is to prevent unnecessary alarms that would otherwise occur, if for example, the spare tire is removed from a vehicle.

The user will have the possibility to check the pressure of the spare tire by accessing the TPMS display menu. For vehicles that have no spare tires, the title “spare tire” will still appear on the screens but the pressure will remain with two dash lines at all time.

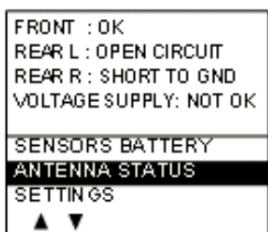
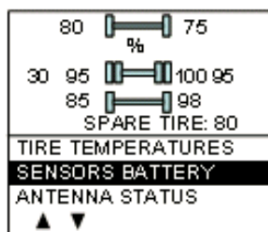
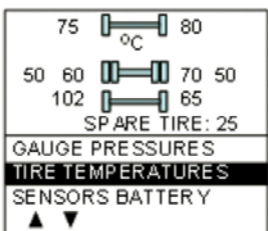
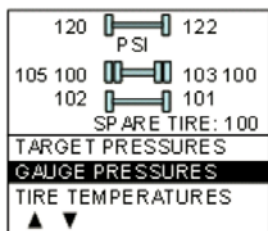
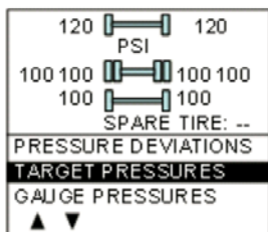
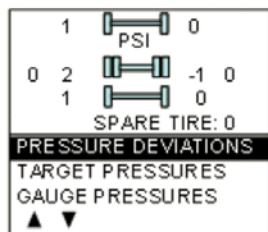
Post Trip Operation

When parking the vehicle (park brake applied), the TPMS display keep the drive mode display active. The driver can press any keys to get the bottom lines showing the status information replaced with the menus.

The pressure readings are still displayed and updated as new readings are received and the readings are blinking if not within the optimum pressure range.

From this point the user can scroll through the menus to get more detailed information and

inflate / deflate the tires to bring them back to their optimum target pressures. Scrolling through these menus is also available prior to departure.



The display remains in this mode with the menus appearing at the bottom until the pre-trip check sequence starts again.

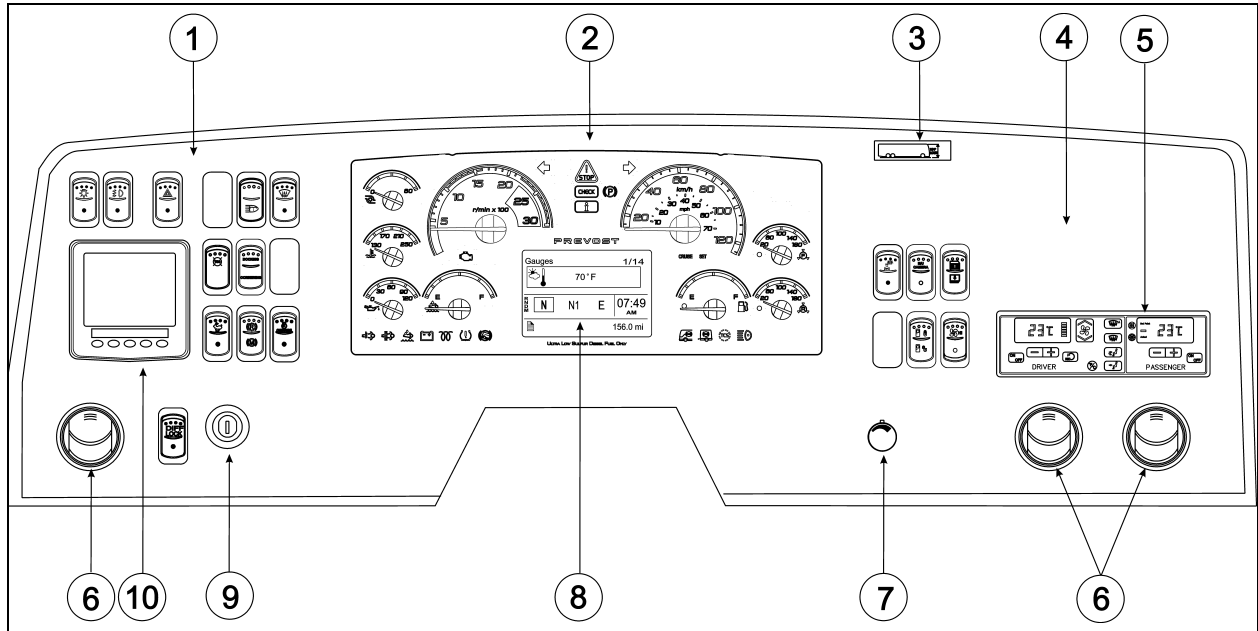
Scrolling down below the Battery life menu will show the Settings menu. Highlighting the Settings and pressing OK allows entering the settings menu. Refer to chapter "SAFETY FEATURES AND EQUIPMENT" for more information on "SETTINGS MENU".

Refer to "Appendix G" for TPMS Troubleshooting Guide.

Highlighting the Exit menu and pressing OK exits the settings and comes back to the pressure display mode.



DASHBOARD



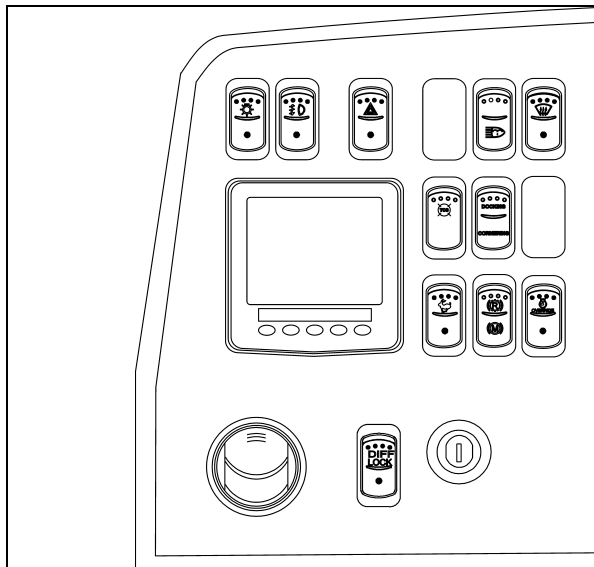
DASHBOARD

1. L. H. Dashboard Panel
2. Instrument Cluster
3. Vehicle Clearance Information
4. R. H. Dashboard Panel
5. HVAC Control Unit
6. Air Vents
7. Brightness Control
8. Diver Information Display (DID)
9. Ignition Switch
10. Tire Pressure Monitoring System (TPMS) Display

CONTROL SWITCHES

High quality laser-engraved switches are used to control many of the features of the vehicle. Many switches have an embedded witness LED to inform the driver at a glance which features are active. Some switches' LED will turn *OFF* after a short while when the engine is running. This is normal and is designed to reduce glare when driving. The functions still operate even if the LED is *OFF*. If the switches are still *ON* when the engine is turned *OFF*, the LEDs will illuminate to warn the driver to turn them *OFF*. Switches are described in the order they appear, from left to right, top to bottom.

L.H. DASHBOARD PANEL

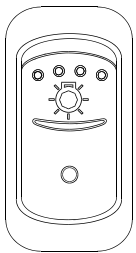


L.H. DASHBOARD PANEL

06762

The dashboard is designed with driver-exclusive controls at the left side and controls shareable with travel companions at the right side.

Headlights



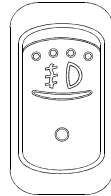
06254

Push down rocker switch to the first position to activate clearance, tail and marker lights. Push down fully to turn *ON* both the clearance and marker lights and the headlights. The controls and instrument lights will illuminate.

NOTE

Daytime running lights will be automatically cancelled when the exterior lighting switch is fully depressed.

Fog Lights



06255

Optional halogen fog lights provide better visibility in fog and precipitation. They improve close range visibility and provide added safety. Remove protective covers from fog lights before use.



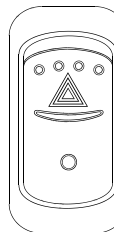
WARNING

Turn *OFF* engine and apply parking brake before removing fog light covers.

NOTE

Some states and provinces restrict the use of fog lights. Verify local state or provincial regulations before using.

Hazard Warning Flashers



06256

Depress the rocker switch to make all turn signal lights flash at once. The dashboard telltale lights will flash when the hazard warning flashers are *ON*.

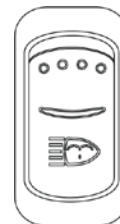
Activating the hazard flashers also activates the vehicle's electrical circuits.



CAUTION

Do not use the hazard flashers for an extended period of time unless necessary because the electrical circuits are activated when the hazard switch is depressed.

Headlights washer



06616

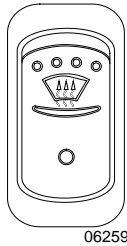
Momentarily press this rocker switch downwards to spray the headlights washer fluid. Each pressing of this switch produces 2 successive jets.



CAUTION

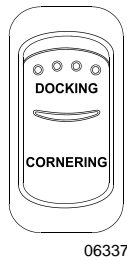
To avoid damaging the pump mechanism, do not use the windshield washer when the fluid level is very low or empty.

Windshield Upper Section De-icing



Optionally on Entertainers only, the vehicle may be equipped with a de-icing system in the windshield upper section. Press the rocker switch to activate the blower in order to clear fog, frost or thin ice from either side of the windshield upper sections.

Docking/Cornering Lights



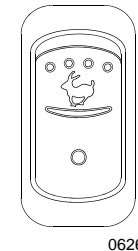
Depress the upper portion of the switch to activate both the docking and the cornering lights. Depress the lower portion of the switch to activate the cornering lights.

Two sealed beam halogen lights are installed on each side of the vehicle. One near the front and one near the rear.

When the switch is set to *DOCKING*, all four beams illuminate to ease parking.

When the switch is set to *CORNERING* and the left or right turn signal is activated, the corresponding front beam will illuminate to increase lateral visibility.

Fast Idle



For extended idling periods, run the engine at fast idle. Press down the rocker switch to engage fast idle. This increases the engine speed to approximately 1,000 rpm. Return to slow idle before driving or when stopping engine.

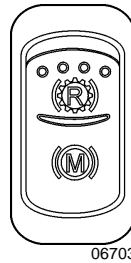
NOTE

If the parking brake is released and/or the transmission is engaged with the engine running at fast idle, the engine will return to low idle and remain there as long as the parking brake is not applied and/or transmission is not placed in neutral (N).

CAUTION

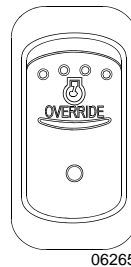
Reduce the engine to low idle before shutting the engine OFF.

Engine Brake / Transmission Retarder (Optional)



Use this switch to select between the transmission retarder and the engine brake when using the vehicle speed retarding device switches on the steering wheel. Both systems cannot be in function at the same time. This rocker switch will be found on the dashboard only if the vehicle is equipped with both systems. Refer to "Transmission Retarder" heading in this chapter. Refer also to "Transmission Retarder" & "Engine Brake" in "OTHER FEATURES" chapter.

Engine Stop Override



Press down this switch and release to override emergency engine shut down protection. Engine emergency shut down will be turned OFF for 30 seconds. This procedure can be repeated if done before the 30 seconds are up.

CAUTION

Use sparingly and in order to move the vehicle to a safe parking place only. Excessive use can cause severe engine damage.

Driver Controlled Differential Lock (DCDL) (Optional)



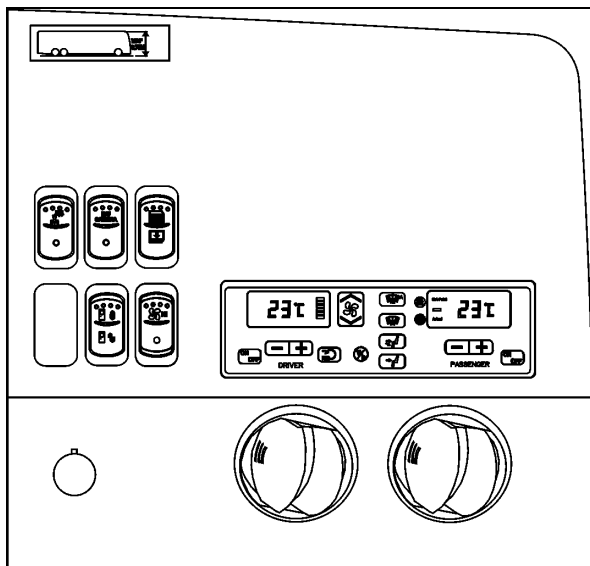
Press the rocker switch to lock or unlock differential action. Refer to "Other Features" chapter for the complete operating instructions.

CAUTION

- Engage DCDL only under poor road surface conditions.
- DCDL will not engage and will disengage in speed higher than 5 MPH.

- o Do not lock DCDL when one or more wheels are slipping, spinning or losing traction. You can damage the drive axle.
- o Using the rocker switch, unlock DCDL when the need for improved traction has passed otherwise it will reengage automatically as speed gets below 5 MPH. Over a prolonged period, this situation will increase tire wear and stress to the vehicle.
- o Do not engage during downhill operation.

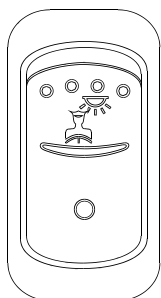
R.H. DASHBOARD PANEL



R.H. DASHBOARD PANEL 06644

The HVAC control module as well as the cluster dimmer switch, miscellaneous control switches and air vents, are located in the R.H. dashboard panel.

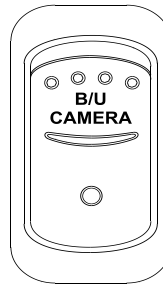
Driver's Area Lighting



06244

Press down the rocker switch to illuminate the ceiling lights in the driver's area as needed.

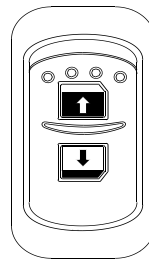
Back-Up Camera Switch



06314

Press down this switch to turn ON the Back-up Camera monitor when the transmission is not in reverse gear.

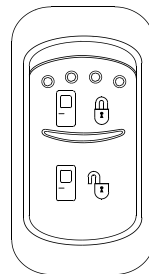
Entrance Door Power Window



06338

Use the rocker switch to open or close the power window in the entrance door. The switch for the driver's power window is on the Lateral control panel.

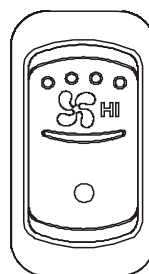
Entrance Door Switch



06313

Use this rocker switch located on the dashboard's R.H. side panel for locking or unlocking the entrance door from the driver's seat.

Cabin Fan Speed Override Switch



06566

Press the upper part of the switch to force HI fan speed for cabin ventilation. Press on the lower part to force LO fan speed. (only available on models equipped with central HVAC)

Used to override the automatic fan speed set by the HVAC control module. Speed setting is reset by turning ignition to OFF.

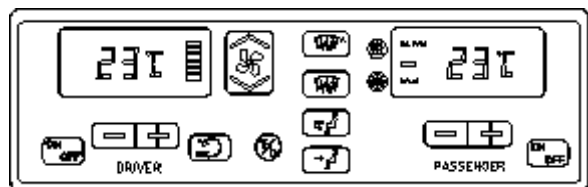
Brightness Control



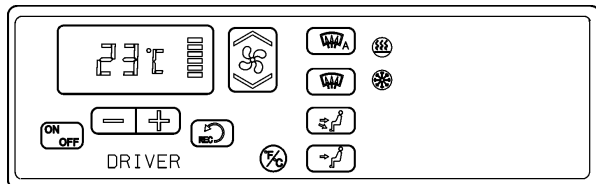
06565

Adjusts the brightness of the dashboard instruments and switches.

HVAC CONTROL MODULES



CENTRAL HVAC SYSTEM CONTROL MODULE 22296



SMALL HVAC SYSTEM CONTROL MODULE 22333

The vehicle is slightly pressurized by the central HVAC system to prevent dust and moisture from entering. Air flow and controls divide the vehicle into two areas: driver's area with defroster and cabin area.

Fresh air is fed in each area and has a separate return air and discharge air duct.

WARNING

Warm temperatures may cause drowsiness and affect alertness while driving. For optimum driving conditions, keep temperature between 68°F and 72°F (20°C to 22°C).


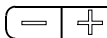

NOTE

To operate the air conditioning system when stationary, run engine at fast idle. When the A/C system is running, keep windows and door closed.

To prevent battery run-down, the A/C and heating systems will not operate if the charging system is not working properly.

When the A/C system is running, park at least 4 feet (1,5 m) from other vehicles or buildings to allow sufficient air flow through the condenser core.

Separate driver's and passenger (cabin) heating, ventilation and air conditioning controls are located on this module. To operate, the vehicle's engine must be running.

The driver's HVAC unit or the cabin HVAC unit may be turned ON by pressing  or  or  buttons. If the vehicle is equipped with a central HVAC system, the driver's HVAC unit turns on automatically at starting of the engine

and uses the settings that were kept in memory before turning off of the system.

Heating Mode Indicator



22135

Illuminates when system is heating.

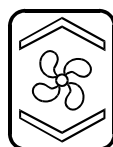
Cooling Mode Indicator



22134

Illuminates when system is cooling.

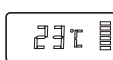
Fan Speed



22135

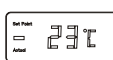
The driver's fans have six speeds. Increase speed by pressing on the upper portion of the button, decrease by pressing on the lower portion.

Driver's area temperature display



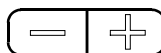
The temperature displayed on the driver's side HVAC control module is the temperature set point.

Cabin area temperature display



The temperature displayed on the passenger's side HVAC control module is the actual temperature in the cabin area.

Temperature Set Button



22132

The driver's side and the passenger's side have independent temperature controls.

These buttons determine the heating and cooling set points.

To increase the temperature set point, press on the "+" sign, to decrease the temperature set point, press on the "-" sign. Temperature range is between 55°F and 85°F (13°C to 29°C).

Air Recirculation



22138

Closes or opens the fresh air damper. A red LED in the top right corner of the button illuminates when driver's area air is recirculated. Use for faster driver's section heating.

NOTE

Upon starting of the vehicle, when the ambient temperature is very cold and so is the inside of the vehicle, the HVAC control module will permit a temperature overshoot up to 3° over the cabin area set point to help warming up of the area because some parts of the vehicle like the seats and furniture accumulate cold.

Windshield Defogger

Upon pressing this button, the dashboard damper sends air only to the lower windshield. The fan is turned on to maximum speed, the fresh air damper opens completely (REC off) and the driver set point is increased to 4°F (2°C) over the passenger's section set point.



The dashboard damper sends air only to the lower windshield when activated. The footwell damper is closed also but the fan speed can be reduced or increased.



22139

NOTE

If the windshield is continuously fogged, check that the driver's air filters are not clogged.

All Vents Open



22140

Air is sent to defogger vents as well as panel and footwell vents.

Panel and Footwell



22137

Air is sent to panel and footwell vents only.

Panel



22136

Air is sent to panel vents only.

Temperature Degree Selector

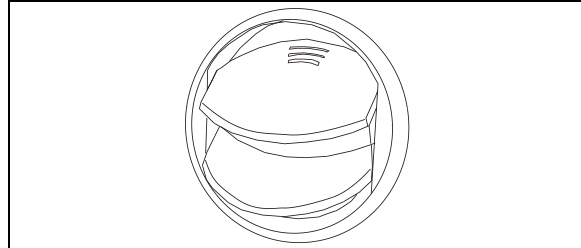


22133

Toggles between Fahrenheit and Celsius units (Driver's HVAC unit must be turned ON).

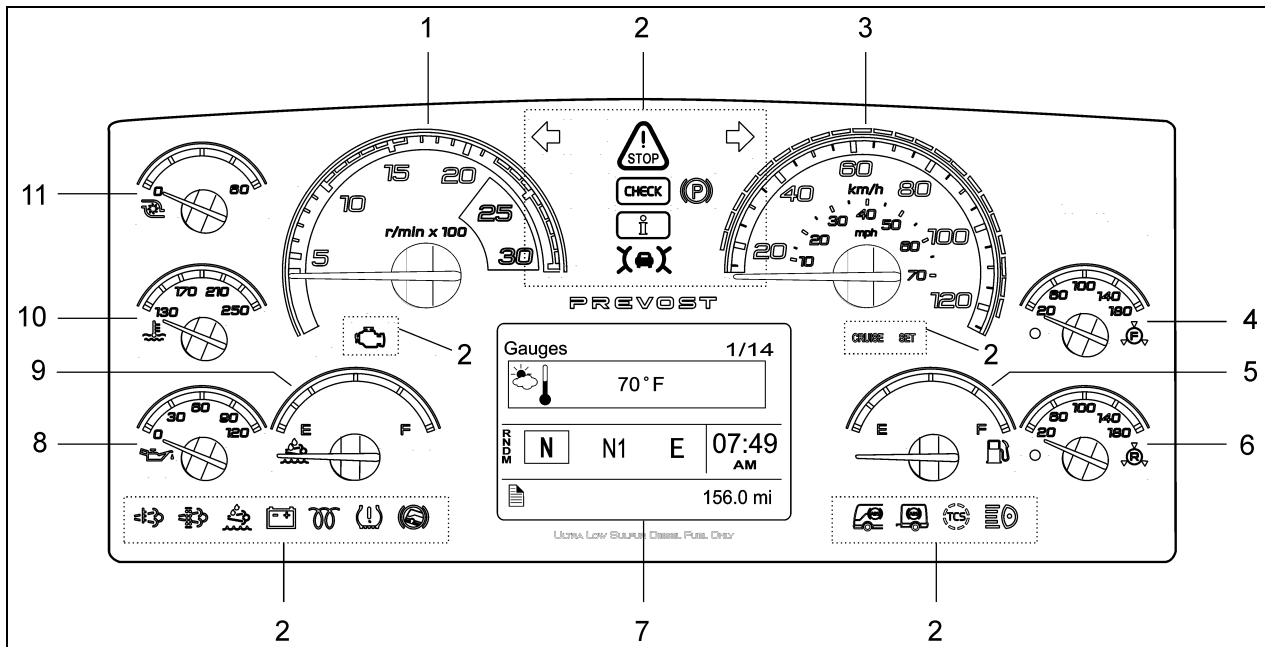
AIR VENTS

Three adjustable driver air vents in the dashboard feed air to the driver's area. Use the HVAC control module to set air temperature.



AIR VENT

INSTRUMENT CLUSTER



06727

- | | |
|---|---|
| <ul style="list-style-type: none"> 1. Tachometer 2. Telltale lights 3. Speedometer 4. Front brake air pressure (secondary) 5. Fuel level 6. Rear brake air pressure (primary) | <ul style="list-style-type: none"> 7. Driver Information Display (DID) 8. Oil pressure indicator 9. DEF level (Diesel Exhaust Fluid) indicator 10. Engine coolant temperature 11. Turbo boost pressure |
|---|---|

The instrument cluster includes the analog instruments. It also presents two devices to communicate information to the driver, the telltale lights and the Driver Information Display (DID).

Indications and warnings are presented according to three levels of attention required:

1. THE TELLTALE LIGHTS

The highest level of attention. The telltale lights are temporary and exceptional; they present information critical to safety or vehicle integrity.

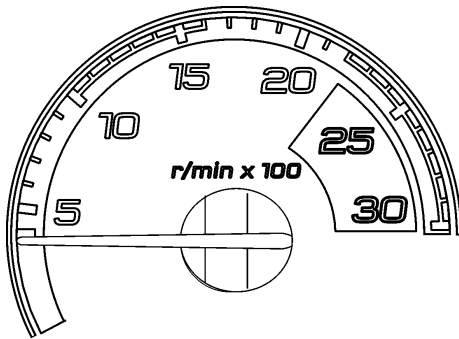
2. THE POP-UP MESSAGES

The second level of attention. The pop-up messages appear in the Driver Information Display DID without the driver's intervention and acknowledgement. Pop-up messages present supplemental information to the driver.

3. THE STATUS LINE

The lowest level of attention. The status line monitors certain systems and gives feedback to the driver concerning current actions and functions.

ANALOG INDICATORS



06728

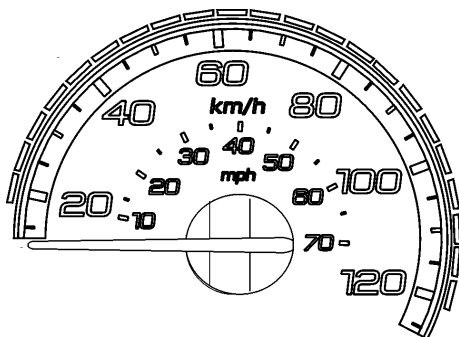
Tachometer (rpm x 100)

Indicates the operating speed of the engine in hundreds of revolutions per minute. The tachometer serves as a guide for gear shifting and helps to prevent engine over-speeding when driving downhill with the engine brake operating. Use the green field for normal driving (1000 to 1600 rpm).



CAUTION

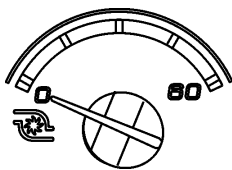
Never allow the engine to go into the red field. This could lead to severe engine damage.



06729

Speedometer (mph, km/h)

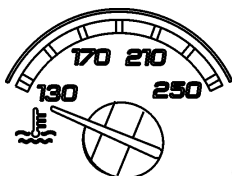
Indicates the vehicle speed in miles per hour (mph) and kilometers per hour (km/h). The LEDs above the instrument work in conjunction with AWARE Adaptive Cruise Braking (ACB) system. Refer to "Prevost AWARE Adaptive Cruise Braking" paragraph.



06730

Turbo Boost Pressure (PSI)

Indicates the turbo boost pressure in psi. This pressure should be the same at a given engine temperature, speed, and load. An unusual reading could indicate an engine failure.



06731

Engine Coolant Temperature (°F)

Indicates the operating temperature of the engine coolant in °f. The normal reading should be between 170°f and 222°f (80°c to 106°c).

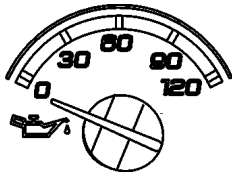
The temperature limit is dependent on the electronic program for the engine model. When coolant temperature is excessive, the stop telltale light turns on, an audible alarm sounds and a pop-up message appears on the DID. If the engine is at risk, the EECU may decrease the engine power. Stop at the first safe place where the problem can be checked.

If the temperature remains below or exceeds the normal temperature range, the cooling system should be checked for problems.



STOP telltale light

Engine Oil Pressure (PSI)



06732

Indicates the engine oil pressure in psi. When the oil pressure is too low, the stop telltale light turns on, an audible alarm sounds and a message appears on the DID. If the engine is at risk, the EECU may decrease the engine power. Bring the vehicle to a safe stop where the problem can be checked.



STOP telltale light



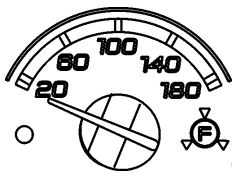
OIL PRESSURE pictogram



WARNING

Failure to take necessary action when the stop telltale light is on can ultimately result in automatic engine shutdown and loss of power steering assist. Vehicle crash can occur, resulting in severe personal injuries.

Front Brake Air Pressure (PSI)



06737

Indicates the front brake air system pressure in psi. The normal operating pressure is from 95 to 125 psi.

A low air pressure indicator led illuminates when the front (secondary) air system pressure drops below 66 psi. If the air pressure drops below 60 psi, the stop telltale light will turn on, an audible alarm will sound and a message will appear on the DID. If the air pressure drops below 40 psi, the emergency spring brake applies at full capacity.

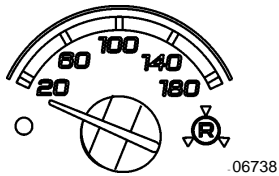


WARNING

Do not drive the coach when the brake air pressure is low.

NOTE

Do not refer to dashboard instruments during adjustment procedures. Use only calibrated gauges.



Rear Brake Air Pressure (PSI)

Indicates the rear brake air system pressure in psi. The normal operating pressure is from 95 to 125 psi.

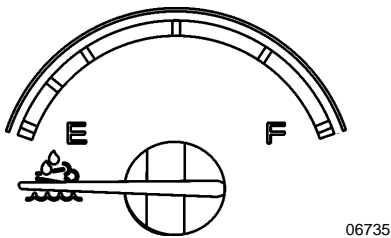
A low air pressure indicator led illuminates when the rear (primary) air system pressure drops below 66 psi. If the air pressure drops below 60 psi, the stop telltale light will turn on, an audible alarm will sound and a message will appear in the DID. If the air pressure drops below 40 psi, the emergency spring brake applies at full capacity.



STOP telltale light

	WARNING
Do not drive the coach when the brake air pressure is low.	

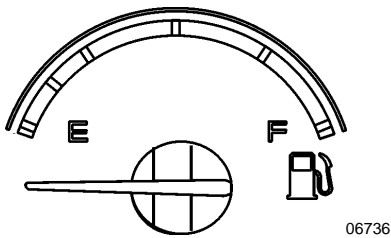
DEF Level



Indicates the amount of DEF (Diesel Exhaust Fluid) remaining in the DEF tank. The DEF tank is considered as being full when it contains 16 gallons (60 liters) of DEF. DEF consumption will be approximately 2% of the diesel fuel consumed.

	CAUTION
DEF will begin to crystallize and freeze at 12°F (-11°C). DEF expands by approximately 7% when frozen. In order to permit DEF expansion without causing damages to the DEF tank, do not fill the DEF tank with more than 16 gallons (60 liters).	

Fuel Level



Indicates the amount of fuel remaining in the fuel tank. At the beginning of the red area, there is approximately 48 gallons (182 liters) left in the tank.

<i>NOTE</i>
<i>A pop-up message will appear in the DID informing that there is only 24 gallons (92 liters) left in the fuel tank.</i>

TELLTALE LIGHTS

The telltale lights illuminate during 5 seconds at the start of every ignition cycle as a light bulb check.



STOP

Indicates that a serious problem has been detected. Immediately park the coach in a safe place and stop the engine. This telltale light may be accompanied with a message in the DID and a diagnostic troubleshooting code will be stored to ease identification of the problem.



CHECK

Indicates that a problem has been detected and must be checked at the next stop. This telltale light may be accompanied with a message in the DID and a diagnostic troubleshooting code will be stored to ease identification of the problem.



FORWARD VEHICLE DETECTED – ADAPTIVE CRUISE BRAKING

When the ACB is engaged with a cruise speed set and the forward vehicle is in range, the FORWARD VEHICLE DETECTED telltale light illuminates, indicating the ACB system is actively tracking the forward vehicle.

GREEN: The vehicle ahead of you is detected by the radar.

FLASHING RED: Impact alert. The vehicle ahead of you is too close. The driver must take immediate evasive action by applying more braking power and/or steering clear of the vehicle ahead to avoid a potential collision.

RED: System malfunction. The Adaptive Cruise Braking is not available.



INFORMATION

This telltale light illuminates when there is a new information message or an abnormal status is detected by the electronic control unit. A pictogram, text or both are shown in the DID in addition to the info telltale light. Make sure the indicated fault is checked at the next stop.



TURN SIGNAL INDICATORS

Flashes when the right or left turn signals are activated. Signal right and left turns by operating the multi-function lever. See “Steering Column Controls” in this chapter.

NOTE

The turn signals are automatically activated when the vehicle is backing up.



PARKING BRAKE OR EMERGENCY BRAKE APPLIED

Illuminates when the emergency/parking brake is applied. The control valve is located on the L.H. control panel. An audible alert will sound if ignition is turned to off and the parking brake is not engaged.



AFTERTREATMENT SYSTEM MALFUNCTION (MALFUNCTION INDICATOR LAMP)

Indicates a failure of an emission control device. May illuminate at the same time as the CHECK amber warning light. The lamp will go out after 3 completed *ignition on-ride-ignition off* cycles. Vehicle can be driven to end of shift. Call for service.

CRUISE CRUISE CONTROL
Indicates that the cruise control is enabled.

SET CRUISE CONTROL SET SPEED
Indicates that a cruising speed is set and stored in the memory.



06740_A

HIGH EXHAUST SYSTEM TEMPERATURE (HEST)
Illuminates to notify the driver of potentially hazardous exhaust gas temperature at the exhaust system diffuser.



WARNING

During regeneration, exhaust temperature may reach up to 1200°f (650°c) at the particulate filter. When parking the vehicle, if this telltale light is illuminating, make sure that the exhaust system diffuser is away from people or any flammable materials, vapors or structures.



06740_B

DPF REGENERATION REQUEST
Illuminates to notify the driver that a manual stationary regeneration will be required soon. Refer to "Exhaust Aftertreatment System" paragraph in *Other Features* chapter.



06740_C

LOW DEF LEVEL
Illuminates when there is less than 2.6 gallons (10 liters) of DEF left in the tank.



CAUTION

This telltale light starts flashing when there is only 2.5 liters (0.6 gallons) left in the tank.

If the vehicle is kept in operation with an empty DEF tank, and engine derate will eventually occur, limiting the speed to 5 mph.



06740_D

ALTERNATORS
Indicates an alternator problem. One of the alternators is not charging.



06740_E

INTAKE AIR PREHEATER ON – WAIT BEFORE STARTING
Illuminates when the intake air preheater element is in function. Wait until this telltale light has turned off before starting the engine. For more information on this feature, refer to paragraph "Cold Weather Starting" in *Starting And Stopping Procedures* chapter.



06740_F

FLAT TIRE (WITH OPTIONAL TIRE PRESSURE MONITORING SYSTEM)

Illuminates when a tire pressure is 25% below the target tire pressure.



06740_G

HILL START ASSIST

Indicates a malfunction of the hill start assist function. This function might not be available.



06740_H

ANTILOCK BRAKE SYSTEM (ABS)

Illuminates when the ABS is not available or when the ABS is malfunctioning. Since the ABS system does not operate at less than 4 mph (7 km/h), the indicator will remain illuminated until the coach reaches that speed. Refer to *Other Features* chapter.



06740_I

TRAILER ANTILOCK BRAKE SYSTEM (ABS)

Illuminates when the trailer ABS is not available or when the trailer ABS is malfunctioning.



06740_AA

TCS/ESC - TRACTION CONTROL SYSTEM AND ELECTRONIC STABILITY CONTROL

This telltale illuminates and stays on whenever TCS or ESC is disabled due to a diagnostic fault code.

During an ESC or TCS intervention, the telltale will blink rapidly to indicate this action.

When in TCS mud/snow mode, this telltale will blink continuously to indicate that this mode is active. When the TCS mud/snow is active, the ESC is disabled at speed lower than 25 mph (40 km/h), for this reason, the telltale will stop blinking and will stay on.



06740_K

HIGH BEAM

Illuminates when the high beams are selected. High and low beams are selected with the multi-function lever. Refer to "*Steering Column Controls*" paragraph in this chapter.

**STOP, CHECK AND INFORMATION
TELLTALE LIGHTS**


STOP, CHECK and INFORMATION telltale lights illuminate automatically to draw the attention of the driver and their associated messages are displayed in the DID. More than one message (see “Acknowledging Messages” below) can be active at the same time. A displayed message can be replaced by a new message provided the new message has a higher priority. Only fault codes that have a direct impact on vehicle operation are displayed. All fault codes are stored in the appropriate ECU for access by service technicians.

STOP Telltale light

In the event of a serious fault, the red STOP telltale light comes on and an audible alarm will sound if the engine is running. An illuminated stop message light indicates a serious problem has been detected, and the driver must respond immediately to the problem.



When illuminating, this telltale light means the vehicle must be safely pulled off the road and stopped. In some instances, the engine must be switched off immediately.

	<p>WARNING</p>
<p>Failure to stop and take necessary action when the STOP telltale light is on can result in automatic engine shutdown and loss of power steering assist. This can result in vehicle accident and severe personal injuries.</p>	

In some cases preventive action may be taken by the engine ECU to protect the engine, for example:

- 1- If oil pressure or coolant level drop too low, the engine is forced to low idle and when the vehicle speed is zero, the engine shuts down.
- 2- With excessive coolant temperature, the engine will gradually reduce power output to 50%. This telltale light always activates an audible alarm.

After the automatic engine shutdown sequence, the engine may be restarted after the key is turned off and then back on. However, it will only operate for 30 seconds unless the problem is resolved. The Engine Stop Override switch can be used to override the automatic engine shutdown protection. The automatic engine emergency shutdown will be turned OFF for 30 seconds. This procedure can be repeated if done before the 30 seconds are up. Use this function sparingly and in order to move the vehicle to a safe parking place only.

CHECK Telltale light

This telltale light means that a fault or an abnormal operating condition has been detected. The vehicle must be checked at the next stop.



If the CHECK telltale light illuminates, an associated message is displayed in the DID. Always pay attention to the associated messages (see “Acknowledging Messages” below).

INFORMATION Telltale light

The INFO indicator light comes on when there is a new information message or an abnormal status is detected by the electronic control unit. A pictogram or text or both are shown in the DID in addition to the INFO telltale light (see “Acknowledging Messages” below).

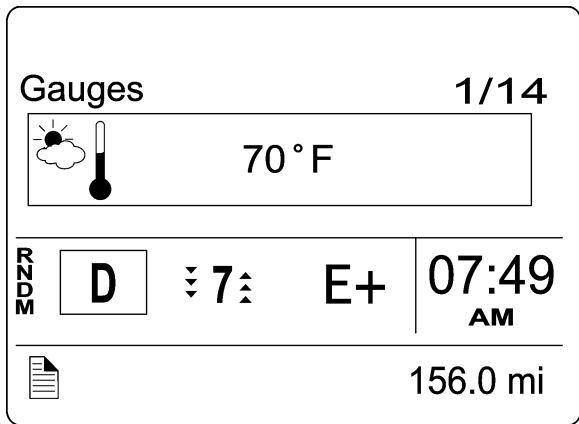


Acknowledging Messages

A fault message associated to a STOP, CHECK or INFORMATION telltale light must be acknowledged by pressing the ESCAPE or ENTER button after which the display returns to the same status that existed before the fault occurred. All messages can be acknowledged. Acknowledged but inactive messages are displayed again when the ignition key is turned to the START position or they can be read in the DID menu. Refer to *Other Features* for more information on the DID menus.

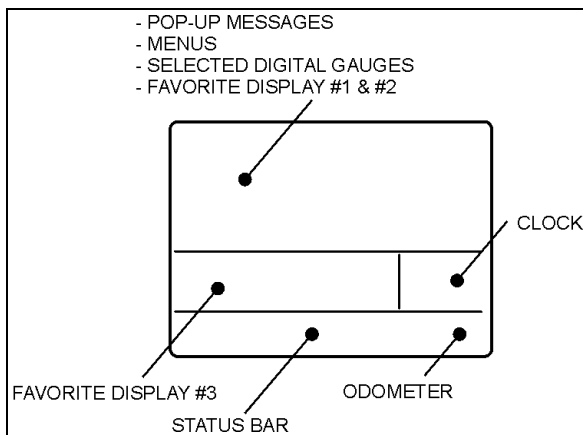
DRIVER INFORMATION DISPLAY

The DID (Driver Information Display) is located in the center of the instrument cluster. It displays digital gauges, main menus and sub-menus that provide necessary and important information to the driver. The information available to the driver depends on vehicle configuration, and whether the vehicle is in operation or parked. For the list of the available menus and sub-menus, refer to "Driver Information Display Menus" in *Other Features* chapter.

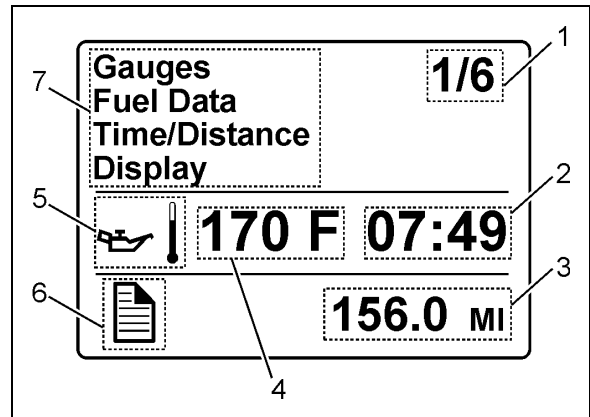


06746

The outside air temperature, fuel flow and the odometer (Allison transmission) are part of the default display. You can replace the default display by your selection of favorite gauges using the Driver Information Display sub-menu Favorite Display Setting. Refer to *Other Features* chapter for more information.



06742

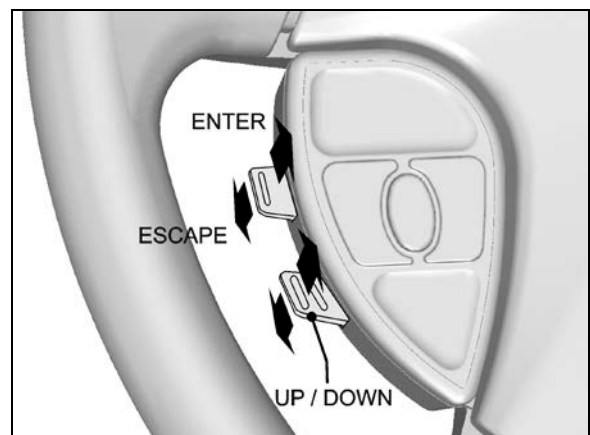


06743

1. Indicates first of six available menus (varies by menu)
2. Clock
3. Odometer
4. Value or data (in this example, the engine oil temperature)
5. Pictogram relevant to the displayed value or data
6. Status bar active pictogram
7. Messages or available menus

Selecting a menu

Menus are placed in a cascade arrangement. Use the steering wheel controls buttons to scroll through them.



14069_3

To select a menu:

1. Press the ENTER or ESCAPE button to display the list of available menus.
2. Use the UP/DOWN button to scroll up or down through the menus.

3. Use the ENTER button to open a menu.
4. Use the ESCAPE button to return to the previous menu or display or to cancel a setting or operation.

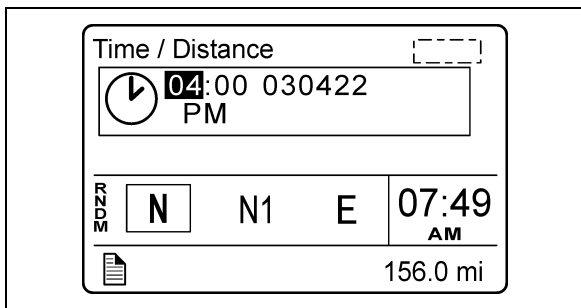
To change settings

To change a setting, like the clock for example:

5. Use the UP/DOWN button to increase or decrease the numerical value of the selected field.
6. Use the ENTER button to confirm your choice and to move to the next field.
7. Press the ESCAPE button to return to the previous field or to cancel a setting or operation.

In alternate mode, use the multi-function lever as follows:

- Move the lever up = UP
- Move the lever down = DOWN
- Push the lever away from you = ENTER
- Pull the lever towards you = ESCAPE



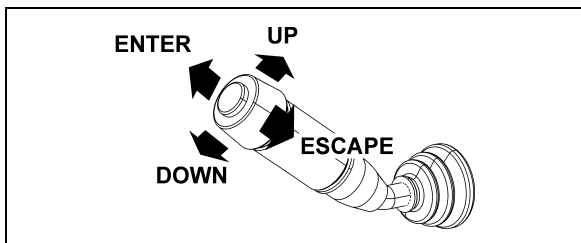
Scrolling through the menus without using the steering wheel buttons

In case of failure of the steering wheel buttons, it is still possible to gain access to the menus or acknowledge the pop-up messages to return to the default display.

This alternate mode is possible only if the steering wheel buttons are faulty.

To enable the alternate mode:

1. Apply the parking brake;
2. Depress and hold the service brake pedal.









MULTI-FUNCTION LEVER











PICTOGRAMS DISPLAYED ON THE DRIVER INFORMATION DISPLAY (DID)

NOTE

In certain situations, the pictogram displayed represents a system or a function of the vehicle. A particular pictogram may be displayed with different messages. In that situation, it is very important to pay attention to the message displayed with the pictogram.

Warning pictograms, pop-up message pictograms, verifications and information pictograms

DRIVER INFORMATION DISPLAY “GAUGES” MENU PICTOGRAMS	
Pictogram	Description
	Engine oil temperature
	Outside air temperature
	A/C compressor pressure This pictogram is displayed with A/C compressor suction pressure value (low side) and discharge pressure value (high side).
	Accessories air pressure Normal pressure should be between 95 and 125 psi.
	Voltmeter This pictogram is displayed with both the 12-volt and 24-volt electrical system current voltage value. When the engine is running, the 24-volt electrical system voltage value should be between 26,5 et 28,0 volts.
	Transmission oil temperature

POP-UP MESSAGES	
Pictogram	Description
	High engine oil temperature
	Engine coolant temperature
	Engine oil pressure
	Intake air preheater failure
	Engine temperature too low for Volvo Engine Brake (VEB) operation
	High transmission oil temperature This pictogram indicates that the transmission oil temperature is too high. Turn the transmission retarder off to allow the oil to cool down.
	Allison transmission– oil or filter replacement required This pictogram may be displayed with many different messages. Pay attention to the displayed message which can advise that the transmission oil or filter change is necessary. Refer to Appendix C for more information on the Allison transmission prognostic features (oil life monitor, filter life monitor, transmission health monitor).
	Trailer braking system low air pressure / trailer parking brake This pictogram appears when the trailer emergency/parking brake is unexpectedly applied as when the vehicle is moving and a parking brake air line rupture happens.
	Low brake or ABS air pressure
	A/C system pressure high This pictogram indicates that the A/C system pressure is too high. If the A/C pressure is too high, the compressor clutch is disengaged, but the fan remains activated.
<p>NOTE When outside temperature is high, it is possible and normal for that pictogram to appear.</p>	



A/C system pressure low

This pictogram indicates that the A/C system pressure is too low. If the A/C pressure is too low, the compressor clutch disengages and the fan stops.

NOTE

When outside temperature is low, it is possible and normal for that pictogram to appear.



Battery voltage warning

This pictogram indicates that the battery voltage is too high, too low or the 12-volts/24-volts battery arrangement is not equalized.

The value LOW or HIGH is displayed at the right of the pictogram to indicate if the voltage is too low or too high.

NOTE

This pictogram will illuminate for a few seconds after the engine is started because of the voltage drop when the starter is engaged.

NOTE

To identify the battery problem (too high, too low or not equalized voltage), using the DID menus, perform a system diagnostic by selecting DIAGNOSTIC, VIEW ACTIVE FAULTS, ELECTRICAL SYSTEM and see the fault messages.

NOTE

To prevent discharge of the batteries when the engine is not running, some functions are automatically switched off if the batteries voltage drops below 24.0 volts for more than 30 seconds. Set the ignition key to the OFF position and then turn the ignition key to the ON position to reactivate the functions for a period of 30 seconds before they switch off again.

NOTE

If the battery equalizer indicator illuminates, make sure that the battery equalizer circuit breakers are reset before requesting breakdown assistance. Wait 15 minutes after setting breakers to allow batteries to equalize. The breakers are located on the rear junction panel, on the engine compartment R.H. side.



Engine door ajar

This pictogram indicates that the engine compartment door is ajar.



Emergency window open

This pictogram indicates that an emergency window is open or unlocked.



Baggage compartment door ajar

This pictogram indicates that one or more baggage bay doors are ajar.



Low windshield washer or headlights washer fluid level

Illuminates when the windshield washer or the headlight washer fluid level is low. The washer fluid containers are located inside the front service compartment.



WARNING

Do not drive without sufficient washer fluid.



Wheelchair lift

This pictogram indicates that the wheelchair lift system is enabled and the wheelchair access door or the lift compartment door is open. It is necessary to stow the wheelchair lift, close the doors and set the wheelchair lift system enable switch to the off position to permit release of the parking brake.



Differential lock (option)

This pictogram indicates that the differential action is locked.



Freezing conditions

This pictogram appears when the temperature is in the range between 0°C and 2°C (32°F et 35°F), when the road is most slippery.



Fuel level

This pictogram appears when approximately 24 US gallons (92 liters) of fuel remains in the tank. Refuel as soon as possible.



Automatic traction control

This pictogram appears when the automatic traction control system intervenes to prevent excess wheel spin during acceleration.



Parking brake applied



DPF regeneration



High exhaust gas temperature

This pictogram appears to notify the driver of potentially hazardous exhaust gas temperature at the DPF outlet.



WARNING

During regeneration, exhaust temperature may reach up to 1200°F (650°C) at the particulate filter. When parking the vehicle, if this pictogram is displayed, make sure that the DPF outlet diffuser is away from people or any flammable materials, vapors or structures.



Fuel economy

This pictogram is displayed with fuel consumption value of the vehicle. Proper units for the displayed value are written under the pictogram: liters/100km, km/liter, mpg, liters/hour.



Leg fuel consumption

This pictogram is displayed with the value for the fuel consumption for the current leg.



Trip data

Function of the DID's "Time/Distance" menu. Refer to "Driver Information Display Menus" in *Other Features* chapter.



Estimated time of arrival

Function of the DID's "Time/Distance" menu. Refer to "Driver Information Display Menus" in *Other Features* chapter.



Fuel filter/water separator

Indicates that draining the fuel filter/water separator is required. See *Care And Maintenance* chapter.



Raised tag axle

This pictogram appears if the vehicle speed exceeds 12 mph (20 km/h) while the tag axle is raised.



Low buoy

This pictogram appears if the vehicle speed exceeds 12 mph (20 km/h) while the front suspension of the vehicle (kneeling) or the entire vehicle suspension is lowered (low buoy).

**Fire in engine compartment**

This pictogram appears if a fire is detected in the engine compartment while the vehicle is on the road. An audible alarm informs the driver when a fire is detected. In case of fire detection when parked (parking brake applied, engine running or not), the electric horn is activated to alert the driver. Refer to *Safety Features And Equipment* chapter.

**WARNING**

In case of a fire, stop the vehicle immediately, stop the engine and evacuate the vehicle.

NOTE

It is possible to cancel an alarm while on the road. To do so, stop the vehicle. Cycle the ignition between the ON and OFF position and then start the vehicle normally. This can be done on a temporary basis when a false alarm is activated by a defective fire detector. The driver can go on without being annoyed by the alarm.









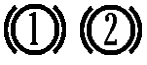


NOTE

To stop the electric horn alarm when parked, cycle the ignition between the ON and OFF position twice within 3 seconds.

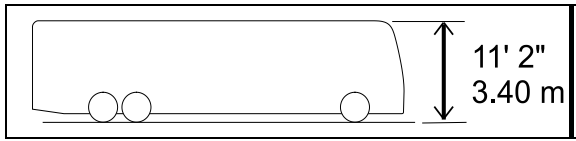
NOTE

For extinguisher's location, refer to SAFETY FEATURES AND EQUIPMENT chapter.

Status Line Pictograms

Pictogram	Description
	Message active
	Alarm clock activated
	Raised tag axle
	Kneeling/front suspension low-buoy active Indicates that the front suspension (kneeling) or the entire vehicle suspension (low buoy) is lowered.
	Baggage compartments locked Confirm that all the baggage compartment doors are locked.
	Baggage compartments unlocked Indicates that at least one baggage compartment door is unlocked.
	Adaptive Cruise Braking (ACB) not available Indicates that the Adaptive Cruise Braking system is disabled.
	Engine brake Confirm that the engine brake is disabled.
	Engine brake – Engine Brake Low (1) and Engine Brake High (2) Confirm which engine braking power is selected with the steering wheel control buttons.
	Allison transmission retarder Confirm that the Allison transmission retarder is OFF.
	Allison transmission retarder – braking level 0, 1, 2, 3, 4, 5, 6 Confirm the retarder hand lever position. Each position corresponds to a given braking level. Refer to “Transmission Retarder” heading in this chapter.
TEST	Vehicle test Confirms that one of the vehicle test modes is active. For further information about the available test modes, refer to the Driver Information Display DIAGNOSTICS menu in <i>Other Features</i> chapter.

VEHICLE CLEARANCE INFORMATION



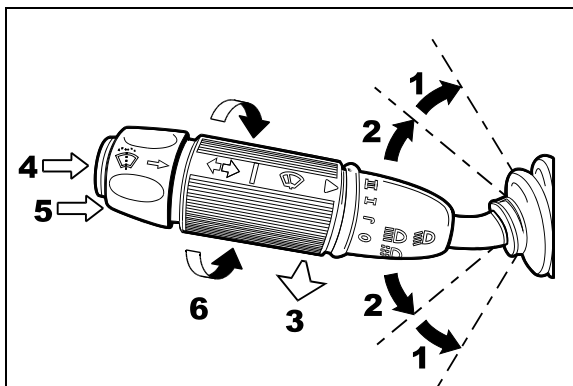
Safe vehicle clearance height is 11'2" (3.40 m).

	CAUTION
<p>Vehicle clearance is higher when the ventilation hatch is open, hi-buoy is selected or if additional equipment is installed on the roof.</p>	

STEERING COLUMN CONTROLS

Many of the most frequently used controls are conveniently placed on the steering column or the steering wheel, just like a passenger car. The multi-function lever is located on the left side of the steering wheel while the optional transmission retarder lever is located on the right side of the steering wheel. Switches for the electric horn and the air horn are located directly on the steering wheel.

MULTI-FUNCTION LEVER



MULTI-FUNCTION LEVER 23133

The multi-function lever is used to operate the following:

Turn Signal (1)

Move the lever all the way up until it locks in position to signal a right turn. Move the lever all the way down until it locks in position to signal a left turn. The lever automatically returns to the horizontal OFF position once the turn is completed.

Lane Change Signal (2)

Move the lever part way to the catch position and hold until the lane change maneuver is completed. The lever will spring back into the OFF position once released.

Headlight Beam Toggle Switch (3)

Toggle between high and low beams by pulling the lever up towards you. To flash the headlights, pull the lever up halfway. The lever will spring back into normal position once released.

Courtesy Blinkers (4)

Clearance and parking lights can be flashed by pressing the button located on the lever tip.

Windshield Washer Control (5)

Push the external ring at the end of the lever toward the steering column to activate the windshield washers. The wipers come ON and continue wiping for a few seconds after the ring is released.

	WARNING
<p>Before using the windshield washers in cold weather, heat the windshield with the defroster to prevent icing and reduced visibility.</p>	

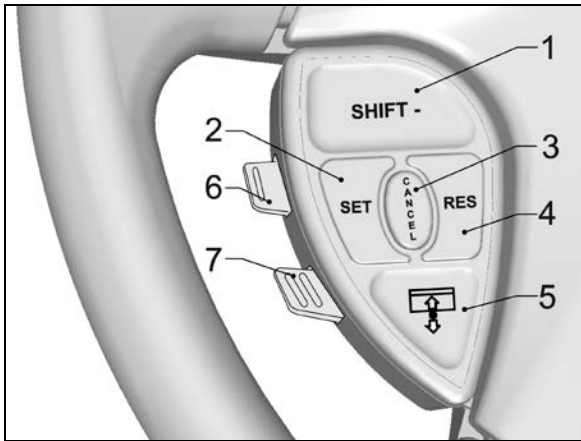
	CAUTION
<p>To avoid damaging the pump mechanism, do not use the windshield washer when the fluid level is very low or empty.</p>	

Windshield Wipers (6)

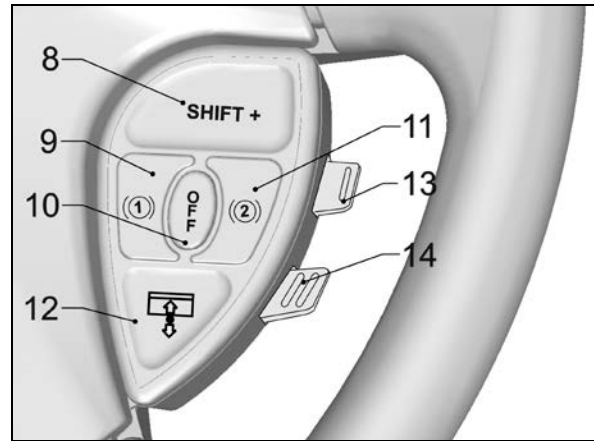
Turn the lever counterclockwise to activate the windshield wipers. The first position activates the wipers intermittently. The second position is the slow speed and the third position is for high speed wiping.

	CAUTION
<p>To avoid scratching the windshield, do not operate the wipers when the windshield is dry. To avoid damaging the wiper motor, free wiper blades that may be frozen to the windshield before operating the wipers.</p>	

STEERING WHEEL CONTROLS



LEFT STEERING WHEEL CONTROLS



RIGHT STEERING WHEEL CONTROLS

The steering wheel controls include the following functions:

2 Set (Cruise Control)

For the cruise control operating instructions, refer to “Cruise Control” paragraph in this chapter.

3 Cancel (Cruise Control)

For the cruise control operating instructions, refer to “Cruise Control” paragraph in this chapter.

4 Resume (Cruise Control)

For the cruise control operating instructions, refer to “Cruise Control” paragraph in this chapter.

5, 12 Left Sunshade, Right Sunshade

Press and hold the button to lower the left or right sunshade. Press twice rapidly and hold the button to raise the left or right sunshade.



CAUTION

Do not attempt to raise or lower these shades manually. Damage to electric motor or roller mechanism could result.

6 Escape/Enter (Driver Information Display)

Enter: lift this button briefly.

Escape: press briefly on this button.

7 Up/Down (Driver Information Display)

Use this button to scroll up or down through the menus.

9 Retarder / Engine Brake Low (1)

If your vehicle is equipped with a transmission retarder, press this button to simply enable the transmission retarder. Afterwards, operate the transmission retarder with the hand lever mounted on the steering wheel or the brake pedal. For more information about the operation of this system, refer to “Transmission Retarder” heading in this chapter.

On vehicles equipped with an engine brake, the engine brake provides two levels of braking power. Press this button for low engine braking power (about 66 % of full braking power). Refer to *Other Features* chapter for more information about the engine brake operation.



WARNING

Engine brake must be used on dry road only. Never use the engine brake on slippery roads; loss of control could result.

10 Retarder / Engine Brake Off

Press this button to cancel operation of the transmission retarder or the engine brake.

11 Retarder / Engine Brake High ②

If your vehicle is equipped with a transmission retarder, this button has the same effect than the Retarder/Engine Brake Low ① button.

On vehicles equipped with engine brake, pressing this button will permit full application of engine brake (100 % of braking power). Refer to *Other Features* chapter for more information concerning the engine brake operation.



WARNING

Engine brake must be used on dry road only. Never use the engine brake on slippery roads; loss of control could result.

13 Volume (Dashboard Radio)

Use this button to increase or decrease the dashboard radio (driver's radio) volume.

14 Seek (Dashboard Radio)

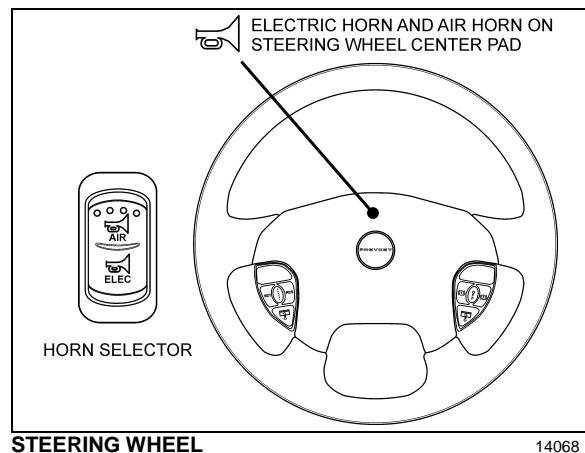
Use this button to seek up or down for a radio station.

HORNS

The electric horn (city horn) and air horn (highway horn) are operated from the steering wheel center pad. Use the Horn Selector switch located on the lateral control panel to select the appropriate horn type.

NOTE

When the vehicle is stationary, the electric horn will sound to inform the driver that a fire is detected in the engine compartment.

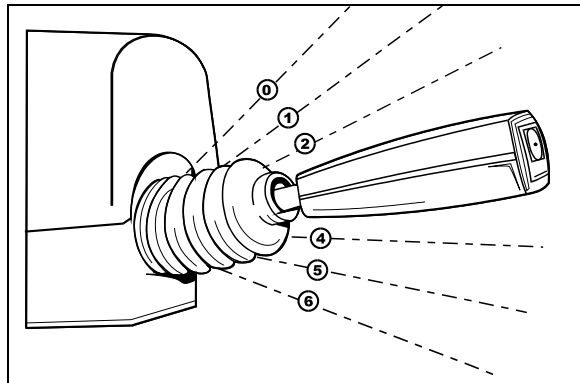


TRANSMISSION RETARDER

The retarder can be operated using a hand lever mounted on the steering wheel column or using the service brake pedal.

To use the transmission retarder, it must be activated first by pressing one of the two Retarder/Engine Brake buttons on the steering wheel.

Operating the Retarder Using the Hand Lever



RETARDER HAND LEVER 07043

With the retarder enabled and the accelerator pedal released, move the output retarder lever clockwise from the first to the sixth position. The braking level for each position is as follows:

Position	Braking level (up to)
Initial 0	Varies with brake pedal
1	16%
2	33%
3	49%
4	71%
5	89%
6	100%

NOTE

The output retarder lever is located on the right side of the steering column.

Operating the Retarder Using the Brake Pedal

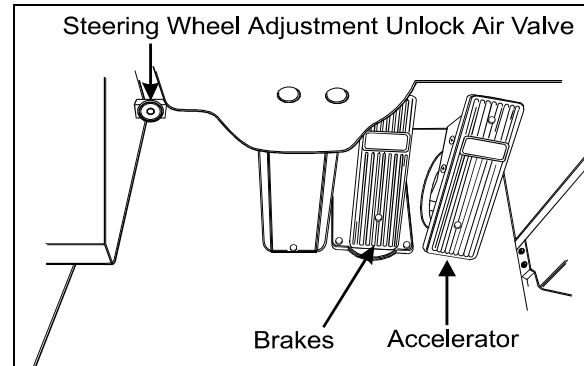
With the retarder enabled, the accelerator pedal released and the output retarder lever in the initial position 0, depressing the brake pedal will engage both the service brake and the transmission retarder. This is referred to as retarder-brake blending. The further the pedal is depressed, the more total braking power is provided. Refer to "OTHER FEATURES" chapter for

further information about the transmission retarder.

NOTE

If the wheels start to lock up on slippery roads, the output retarder will automatically deactivate until the wheels start to turn.

FOOT-OPERATED CONTROLS



FOOT OPERATED CONTROLS 18118A

SERVICE BRAKES

The coach is equipped with a dual braking system. The front brakes operate differently from the drive and tag axle brakes.

The dual braking system becomes a modulated emergency system if a pressure drop occurs in the rear brake system. Only the drive and tag axles are equipped with parking brakes.

Service brakes are applied by depressing the brake pedal. Braking increases with the amount of pressure applied to the foot pedal. Refer to "Other Features" chapter under "Anti-lock Braking System". When the brake pedal is depressed, the brake lights turn ON automatically.

For safe and effective braking, the air system pressure should reach at least 95 psi (655 kPa) in both the primary and secondary circuits.

A warning light and a buzzer will sound when the air pressure in either the primary or secondary circuits drops below 70 psi (483 kPa). If this occurs, stop the coach; determine the cause of the pressure loss before proceeding. The brake pedal can be used in conjunction with the transmission retarder. Refer to Transmission Output Retarder in this section.

⚠ DANGER

Immediately report any brake system problem to the nearest Prevost or Prevost-authorized service center.

Do not "fan" or "pump" the brake pedal. This practice does not increase brake system effectiveness but rather reduces system air pressure thereby causing reduced braking effectiveness.

⚠ CAUTION

"Riding" the brake by resting one's foot on the brake pedal when not braking can cause abnormally high brake temperature, can damage and cause premature wear of brake components and reduce brake effectiveness.

ACCELERATOR PEDAL

Controls engine RPM as needed.

NOTE

The accelerator pedal will not operate when the front door is open.

ALLISON AUTOMATIC TRANSMISSION

The transmission is fully automatic: Proper ranges should be automatically selected according to driving speeds to improve vehicle performance and control. The speed ratio of the power converter changes automatically as vehicle speed increases and direct-drive goes in and out as necessary. The speed ratio is modulated by vehicle speed and accelerator pedal position. You will find the complete transmission operation instructions and driving tips in the **Allison Bus Series Operator's Manual** included in your vehicle's publication box.

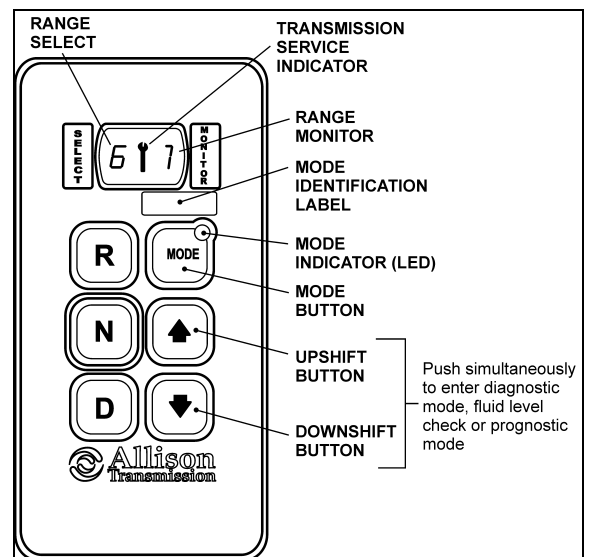
OPERATION

When a button is depressed on the transmission control pad, the corresponding letter or number is displayed indicating the transmission is ready to operate in the selected range. If the transmission control module (TCM) detects a serious problem in the transmission, a buzzing tone sounds for 5 seconds and the "CHECK TRANS" light on the dashboard illuminates to warn the driver that the transmission is held in

gear. If another button is depressed, the buzzing sound will continue until the original range is selected.

NOTE

As a light bulb and systems check, the "CHECK TRANS" light will illuminate when the ignition switch is turned ON. After about two seconds the light will turn off. If the "CHECK TRANS" light remains on, the self-diagnostic system has detected a problem. If the problem disappears, the light will go out, but a trouble code will remain stored in the TCM.



ALLISON PUSHBUTTON SHIFT SELECTOR 07142

PUSHBUTTON SHIFT SELECTOR

The pushbutton shift selector has the following elements:

R (Reverse) — Press this button to select Reverse.

N (Neutral) — Press this button to select Neutral.

D (Drive) — Press this button to select Drive. The highest forward range available will appear in the digital display window under SELECT. The transmission will start out in the lowest available forward range, displayed under MONITOR, and advance automatically to the highest range.

▲ ▼ — Press respectively the ▲ (Upshift) or ▼ (Downshift) arrow button when in DRIVE to request the next higher or lower range. One press changes gears by one range. If the button is held down, the selection will scroll up or down until the button is released or until the highest or lowest possible range is selected. Protection

mechanisms inhibit selecting ranges that are not appropriate for the current speed or which may damage driveline components.

MODE — The MODE button can allow the driver to enable a secondary shift mode that has been programmed into the TCM unit. The name of the secondary mode appears on the MODE IDENTIFICATION label adjacent to the MODE button. Pressing the MODE button activates the PERFORMANCE shift schedule and illuminates the mode indicator (LED).

NOTE

*When the diagnostic display mode has been entered, the MODE button is used to view and toggle through diagnostic code information. Refer to Appendix C for more details about **diagnostic code display procedure** and **fluid level check** using the pushbutton shift selector.*


FUNCTIONS OF THE “MODE” BUTTON

Both ECONOMY (default mode at starting of the engine) and PERFORMANCE (secondary shift mode) modes are equivalent from the first to the fourth gear as the transmission upshifts at around 2000 rpm.

The ECONOMY mode allows for upshifts in fifth and sixth gear at around 1700 rpm. This is a more efficient operation of the transmission and thereby helps improve fuel economy.

The PERFORMANCE mode keeps upshifts at 2000 rpm in fifth and sixth gears. This makes for better performance than the economy mode but with higher fuel consumption. It is recommended this mode be selected while driving up or down grades. The mode indicator (LED) is illuminating when PERFORMANCE mode is selected.

TRANSMISSION SERVICE INDICATOR

 — This indicator will illuminate upon the detection of a service issue relating to clutch, filter or fluid life. The appearance of the indicator (lit steadily, flashing, etc.) varies for each of the conditions monitored by the system. Refer to appendix C for more details about **diagnostic code display procedure, fluid level check or prognostic features** (Oil Life Monitor, Filter Life Monitor and Transmission Health Monitor) using the pushbutton shift selector.

Illuminated at startup for a bulb check, this indicator will then turn off if no service conditions exist.

DESCRIPTION OF AVAILABLE RANGES

Reverse (R)

Use this position to back-up the vehicle. Stop completely before shifting from forward to reverse or from reverse to forward. Touch the reverse (R) button, “R” will be displayed and the reverse warning signal will be activated.

Neutral (N)

Use this position to start engine. Select neutral (N) when checking vehicle accessories and for extended periods of engine idle operation; parking brake must then be applied. The push-button shifter will automatically select neutral when the master switch is turned ON.

NOTE

The automatic transmission does not have a park (P) position. Select neutral (N) and apply parking brake when the vehicle is left unattended. A warning buzzer will sound if the engine is stopped and the parking brake has not been applied when foot pressure is removed from the brake pedal.



DANGER

Always put the transmission in NEUTRAL and apply parking brake before leaving driver's seat.



DANGER

The vehicle service brakes or park brake must be applied whenever NEUTRAL is selected to prevent unexpected vehicle movement.



CAUTION

Volvo Diesel engines should not be idled for extended periods at "slow" idle. For extended idling, engine should run at "fast" idle.



CAUTION

Do not allow your vehicle to "coast" in neutral. This practice can result in transmission damage. Also, no engine braking is available in neutral.

Drive (D)

Use this position for all normal driving conditions. After touching this pad, the vehicle will start in first or second range and will automatically upshift to a higher range as output speed increases. As the vehicle slows down, output speed decreases, the transmission automatically downshifts to the correct range. If a locked brake or a slick surface condition should occur, the TCM (Transmission Control Module) will command converter operation (disconnect lockup) and inhibit downshifts for a period of time or until normal wheel speed has been restored.

IMPORTANT NOTE

Brake pedal must be applied when selecting Drive (D) otherwise the transmission will stay in neutral (N).

- First range (1):

Select this range when pulling through mud and snow or when speed control is needed for driving up steep grades. This range also provides maximum engine braking power or retarder braking effect. In the lower ranges (1, 2, 3 and 4), the transmission will not upshift above the highest gear selected unless engine overspeed is detected.

NOTE

The transmission should normally be allowed to shift by itself, but manual shifting can be done as described below.

- Second range (2)

Select this range when operating in heavy and congested traffic. The transmission will start in first and automatically upshift to second. When slowing, the transmission will automatically downshift to first range. Low ranges provide progressively greater engine and retarder braking power (the lower the range, the greater the engine and retarder braking effect).

- Third and fourth ranges (3 and 4)

Select these ranges when driving on moderate grades or when load and traffic conditions limit speed.



WARNING

Service brakes should not be used to control the speed of vehicle on long, steep descents. Instead, lower transmission ranges should be used (in conjunction with output retarder. Refer to "Engine Brake" and "Transmission Retarder" headings in "Other Features" chapter for details regarding both systems. This procedure keeps service brakes cool and ready for emergency stopping.



CAUTION

When descending in lower ranges, care must be taken that engine speed does not exceed 2,450 rpm.