

TABLE OF CONTENTS

FOREWORD	1	PNEUMATIC ISRI SEAT	20
SAFETY PRECAUTIONS	3	SAFETY BELTS	20
SAFE OPERATING PRACTICES.....	3	TOUR GUIDE SEAT.....	21
DEFENSIVE DRIVING PRACTICES.....	3	MICROPHONE JACKS	22
COACH EXTERIOR	5	PASSENGER SEATS.....	22
ENGINE COMPARTMENT		SWIVEL SEATS	22
COMPONENTS	7	FOLDING TRAYS	22
ENGINE COMPARTMENT	8	CARD TABLES	22
ENGINE COMPARTMENT CURB-SIDE		QUICK-LOUNGE SYSTEM	23
DOOR	8	OVERHEAD CONSOLE	23
ENGINE COMPARTMENT REAR DOOR	8	ADJUSTABLE AIR REGISTERS	23
MAIN POWER COMPARTMENT		SERVICE BELL	23
(BATTERY)	9	READING LIGHTS	23
BAGGAGE COMPARTMENTS	9	WINDOWS	24
FUEL FILLER DOORS	9	PANORAMIC WINDOWS	24
A/C CONDENSER COMPARTMENT	10	DRIVER'S POWER WINDOW	24
SPARE WHEEL COMPARTMENT	10	VENTILATION HATCH	25
FRONT ELECTRICAL AND SERVICE		OVERHEAD COMPARTMENTS	25
COMPARTMENT	10	WASTE CONTAINER	25
EVAPORATOR COMPARTMENT	11	GALLEY	25
REAR ELECTRICAL COMPARTMENT	12	LAVATORY	25
ENTRANCE DOOR	12	CONTROLS AND INSTRUMENTS	27
ENTRANCE DOOR OPENING INTERIOR		KEYS	27
OPERATING SWITCHES	13	IGNITION KEY	27
ENTRANCE DOOR OPENING EXTERIOR		EXTERIOR DOOR LOCKS KEY	27
OPERATING SWITCH	13	DRIVER'S PERSONAL COMPARTMENT	
DOOR OPERATION LOGIC	13	KEY	27
EMERGENCY DOOR OPENING	13	UTILITY COMPARTMENT KEY	27
WHEELCHAIR LIFT DOOR	14	LAVATORY DOOR LOCK KEY	27
RADIATOR DOOR	14	HAND TOWEL DISPENSER KEY	27
REAR VIEW MIRRORS	14	VCR COMPARTMENT KEY	28
ELECTRICALLY ADJUSTED REAR VIEW		TV MONITOR KEY	28
MIRRORS (RAMCO)	15	IGNITION SWITCH	28
BACK UP CAMERA	15	OFF	28
BLOCK HEATER CONNECTOR (110-120		ACCESSORIES	28
VOLTS)	15	ON	28
HUBODOMETER	15	START	28
TRAILER HITCH	15	LATERAL CONTROL PANEL	31
COACH INTERIOR	17	TRANSMISSION CONTROL PAD	31
ELECTRICAL DESTINATION SIGN	17	CRUISE CONTROL SWITCHES	31
ELECTRONIC DESTINATION SIGN	17	MIRROR CONTROLS	32
UTILITY COMPARTMENTS	17	TAG AXLE CONTROL VALVE	32
STEERING WHEEL ADJUSTMENT	18	PARKING BRAKES CONTROL VALVE	33
INTERIOR MIRRORS	18	COOLANT HEATER TIMER	33
DRIVER'S AREA ADJUSTABLE AIR		LOW BUOY CONTROL VALVE	33
REGISTERS	18	UTILITY COMPARTMENT	33
DRIVER'S SEAT – ISRI	18	POWER WINDOW SWITCH	33
MECHANICAL ISRI SEAT	19	ASHTRAY	33
		CIGARETTE LIGHTER	33
		DIAGNOSTIC DATA READER (DDR)	
		RECEPTACLE	33
		DASHBOARD	34
		CONTROL SWITCHES	35
		L.H. DASHBOARD PANEL	35
		R.H. DASHBOARD PANEL	39
		CONTROL HEAD	40

TABLE OF CONTENTS

RADIO	40	COOLANT HEATER TIMER.....	65
HVAC CONTROL UNIT	40	WHEELCHAIR LIFT	67
AIR REGISTERS	42	WHEELCHAIR LIFT AND	
CLUSTER	42	ACCESS DOORS.....	67
MESSAGE CENTER DISPLAY (MCD).....	42	OPERATING THE RICON	
GAUGES	42	WHEELCHAIR LIFT.....	67
VEHICLE CLEARANCE INFORMATION.....	44	OPERATING THE ST. & ST. LIFT.....	70
TELLTALE PANEL.....	44	INTERIOR APPOINTMENTS	72
STEERING COLUMN CONTROLS.....	48	STARTING AND STOPPING PROCEDURES	75
MULTI-FUNCTION LEVER.....	48	STARTING THE ENGINE	75
ELECTRIC HORN.....	48	STARTING FROM THE DRIVER'S SEAT ...	75
AIR HORN	49	STARTING FROM THE ENGINE	
FOOT-OPERATED CONTROLS.....	49	COMPARTMENT.....	75
BRAKE PEDAL.....	49	COLD WEATHER STARTING.....	76
ACCELERATOR PEDAL	49	JUMP STARTING.....	76
STEERING WHEEL ADJUSTMENT UNLOCK		ENGINE BLOCK HEATER	77
AIR VALVE	49	ENGINE WARM-UP	77
ALLISON TRANSMISSION	50	TRANSMISSION WARM-UP.....	77
OPERATION	50	SAFETY FEATURES AND EQUIPMENT	79
RANGE SELECTION-PUSH BUTTON		EMERGENCY EXITS	79
SHIFTER	50	SIDE WINDOWS	79
FUNCTIONS OF THE "MODE" BUTTON.....	50	ROOF HATCH.....	79
TRANSMISSION OUTPUT RETARDER...52		ENTRANCE DOOR	80
OPERATING THE RETARDER USING		EMERGENCY EQUIPMENT	80
THE HAND LEVER.....	52	FIRE EXTINGUISHERS	80
OPERATING THE RETARDER USING		FIRST AID KIT	81
THE BRAKE PEDAL.....	52	FIRE HATCHET.....	81
OTHER FEATURES	53	WARNING REFLECTORS	81
DETROIT DIESEL ELECTRONIC		JACK AND TOOLS	81
CONTROL (DDEC) SYSTEM	53	SPARE PARTS KIT	81
DEC IV ELECTRONIC CONTROL		LIMP-HOME BELT.....	81
MODULE (ECM)	54	SPARE WHEEL AND TIRE	82
MESSAGE CENTER DISPLAY(MCD)	54	CHANGING A WHEEL	82
GAUGE MODE	55	EMERGENCY AIR-FILL VALVES	83
FUEL ECONOMY MODE	55	EMERGENCY AND PARKING BRAKES ..	84
CLOCK / DIST. MODE.....	55	JACKING POINTS.....	84
SET UP MODE	56	HYDRAULIC JACK.....	84
DIAGNOSTIC MODE.....	58	TOWING	85
DATA LOG MODE	60	DAYTIME RUNNING LIGHTS.....	85
PASSWORDS	61	FOG LIGHTS	85
PRODRIVER™.....	61	COMPARTMENT LIGHTING	85
ALLISON TRANSMISSION ELECTRONIC		MUD FLAPS AND SPLASH GUARDS.....	85
CONTROL UNIT (ECU)	62	BACK UP CAMERA.....	86
TRANSMISSION RETARDER.....	62	BACK UP ALARM.....	86
JACOBS ENGINE BRAKE.....	62	AUDIBLE ALERTS	86
ANTILOCK BRAKING SYSTEM.....	63	CARE AND MAINTENANCE	89
KNEELING SYSTEM	63	CLEANING	89
HI-BUOY	63	SEAT UPHOLSTERY	89
LOW-BUOY.....	63	PLASTIC AND VINYL.....	90
RETRACTABLE TAG AXLE	64	WINDOWS.....	90
IN-STATION LIGHTING.....	64	STAINLESS STEEL.....	90
COOLANT HEATER	64		
SWITCHING THE HEATER ON	64		
SWITCHING THE HEATER OFF	65		

TABLE OF CONTENTS

FORMICA	90	ALLISON WORLD TRANSMISSION.....	116
CARPET	90	BRAKES	116
RUBBER COMPONENTS	90	BRAKE CHAMBER EFFECTIVE AREA	116
FLOOR CLEANING	90	AIR SYSTEM.....	116
EXTERIOR SURFACES.....	90	ANTILOCK BRAKING SYSTEM (ABS)...	116
LAVATORY MAINTENANCE.....	91	TROUBLESHOOTING AND TESTING.....	116
FILLING THE MAIN SUMP TANK	92	STEERING	116
DRAINING THE MAIN SUMP TANK	92	ELECTRICAL SYSTEM.....	116
DRAINING THE AUXILIARY SUMP TANK..	92	SUSPENSION	117
FRESH WATER RESERVOIR.....	92	FRONT AXLE	117
CLEANING CABINET	93	DRIVE AXLE.....	117
FLUID LEVEL VERIFICATION	93	TAG AXLE	117
ENGINE OIL LEVEL	93	ALIGNMENT SPECIFICATIONS.....	117
TRANSMISSION FLUID LEVEL	93	HEATING AND AIR CONDITIONING	117
POWER STEERING FLUID LEVEL.....	94	OIL SPECIFICATIONS.....	118
RADIATOR FAN GEARBOX OIL LEVEL....	95	ENGINE	118
WHEEL BEARING OIL LEVEL	95	ALLISON TRANSMISSION	118
COOLANT FLUID LEVEL.....	95	DIFFERENTIAL	118
WINDSHIELD WASHER RESERVOIR.....	96	FAN GEARBOX.....	118
OTHER VERIFICATIONS.....	96	POWER STEERING RESERVOIR.....	118
AIR TANK PURGE.....	96	WHEEL BEARINGS.....	118
FIRE EXTINGUISHERS	97	PRE-HEATING SYSTEM	118
FUEL FILTER / WATER SEPARATOR	97	DDEC IV DIAGNOSTIC CODES.....	118
BELT TENSION ADJUSTMENT	97	ENGINE TROUBLESHOOTING	
BACK UP CAMERA.....	98	FLOWCHART	121
AIR FILTER RESTRICTION INDICATOR...98		WORLD TRANSMISSION (WT)	
A/C AND HEATING SYSTEM		DIAGNOSTIC CODES.....	122
AIR FILTERS	98	DIAGNOSTIC CODE MEMORY LIST.....	122
DRIVER'S AREA FILTER	98	MAIN CODE	122
CABIN AIR FILTER.....	99	SUB CODE	122
HOSE INSPECTION.....	99	ACTIVE INDICATOR	122
LUBRICATION.....	99	IGNITION CYCLE COUNTER	122
ROUTINE INSPECTION.....	99	EVENT COUNTER	122
WITH ENGINE STOPPED.....	99	CODE READING AND CLEARING	122
WITH ENGINE RUNNING	101	DIAGNOSTIC CODE RESPONSE	123
FIRST SERVICE ON NEW VEHICLE	101	DIAGNOSTIC CODE LIST	
ENGINE OIL	101	AND DESCRIPTION.....	124
ALLISON TRANSMISSION		FLUID LEVEL SENSOR (OLS) CODES ...	131
FLUID FILTER	101	CLEARING CODES.....	131
COOLANT SYSTEM STRAINER.....	101	LIGHT BULB DATA	132
GENERAL RECOMMENDATIONS	101	PLATES AND CERTIFICATION.....	132
WALK-AROUND INSPECTION.....	104	SAFETY CERTIFICATION	133
LUBRICATION AND SERVICING		DOT CERTIFICATION PLATE	133
SCHEDULE.....	105	EPA ENGINE LABEL.....	133
LUBRICANT SPECIFICATIONS.....	108	VEHICLE IDENTIFICATION	
PART NUMBER SPECIFICATIONS.....	109	NUMBER (VIN).....	134
TECHNICAL INFORMATION.....	111	COACH FINAL RECORD	134
DIMENSIONS AND WEIGHTS.....	115	APPENDIX.....	135
CAPACITIES.....	115	SERVICE LITERATURE.....	135
FUEL TYPE.....	115	NOTICE	136
WHEELS AND TIRES.....	115	INDEX.....	137
RECOMMENDED TIRE INFLATION			
PRESSURE AT MAXIMUM COLD LOAD..	115		
BELTS.....	116		
ENGINE	116		

FOREWORD

This **Operator's Manual** for the PREVOST H3-41 and H3-45 coach has been prepared to thoroughly acquaint you, the driver, with the equipment and features of the coach in order for you to fully appreciate and safely enjoy this vehicle. Prevost Car Incorporated is committed to the continuous improvement of coach quality, reliability, durability and safety. With innovative features, the H3 series coach was designed with passenger and driver safety and comfort in mind.

This manual contains information available at the time of publication. Because standard and optional equipment is covered in this manual, some of the optional equipment described may not apply to your coach. If in doubt, refer to the technical documentation package provided with the coach.

Driver's controls and instruments incorporate advanced technology for enhanced driving ease and security. This manual describes the main features, instruments and controls, and servicing requirements for both standard and optional equipment. Read this manual carefully to take advantage of the coach's advanced features and to ensure optimum safety and passenger comfort.

Keep this manual in the coach at all times. Make sure this manual is kept with the coach when ownership is transferred. Please use the appropriate card at the end of this manual to promptly notify Prevost Car of any change of address or transfer of ownership. This will ensure we provide fast and reliable coach service to all coach operators.

Warnings, cautions and notes are used throughout this manual to emphasize important points when necessary:

WARNINGS call attention to instructions which must be precisely followed to avoid personal injury.

CAUTIONS call attention to instructions which must be followed to avoid damage to the coach or to equipment.

NOTES provide supplemental information and call attention to instructions which make the job easier.

The service life of the coach depends on the kind of attention it receives. Pay close attention to the warnings, cautions and notes. Read the various notices and instructions posted throughout the coach and attached to equipment.

Since continuous improvement is a primary focus at Prevost Car, we reserve the right to make changes anytime, without notice, and without incurring any obligation.

Before reproducing or copying this manual, in whole or in part, written consent must be obtained from Prevost Car Incorporated.

SAFETY PRECAUTIONS

SAFE OPERATING PRACTICES

To ensure safe and reliable operation, heed the following safety precautions.

- Operation and maintenance of the vehicle must be performed only by qualified personnel.
- Before driving, conduct a walk around inspection and check that all baggage compartment doors and equipment access doors are securely shut.
- Make sure good visibility is maintained at all times. Keep windshields clean and free of obstructions.
- Adjust the driver's seat so that all controls can be reached easily.
- Always wear your safety belt when driving.
- Check the instrument panel frequently. Do not operate the vehicle when dials or indicators do not indicate normal operating conditions.
- Always pay attention to pedestrians passing in front and behind the vehicle. Always yield to pedestrians at pedestrian walkways.
- Do not drive over obstacles on the road. Empty boxes, piles of leaves, and snowdrifts could conceal hidden dangers that could damage the vehicle suspension and underbody.
- When turning or changing lanes, signal your intention well in advance.
- When approaching to make a right turn, reduce the space between the vehicle and the curb to make sure another vehicle cannot pass on the right. Since the vehicle makes wide turns, allow enough space to make safe turns.
- Switch from high beams to low beams when meeting or following other vehicles within 500 feet (150 meters).
- Never leave the vehicle unattended with the engine running, or with the key in the ignition. Turn off the engine, remove keys and apply the parking brake before leaving the vehicle.
- Shut-off the engine before refueling, adding oil, performing maintenance or servicing tasks, unless stated otherwise.

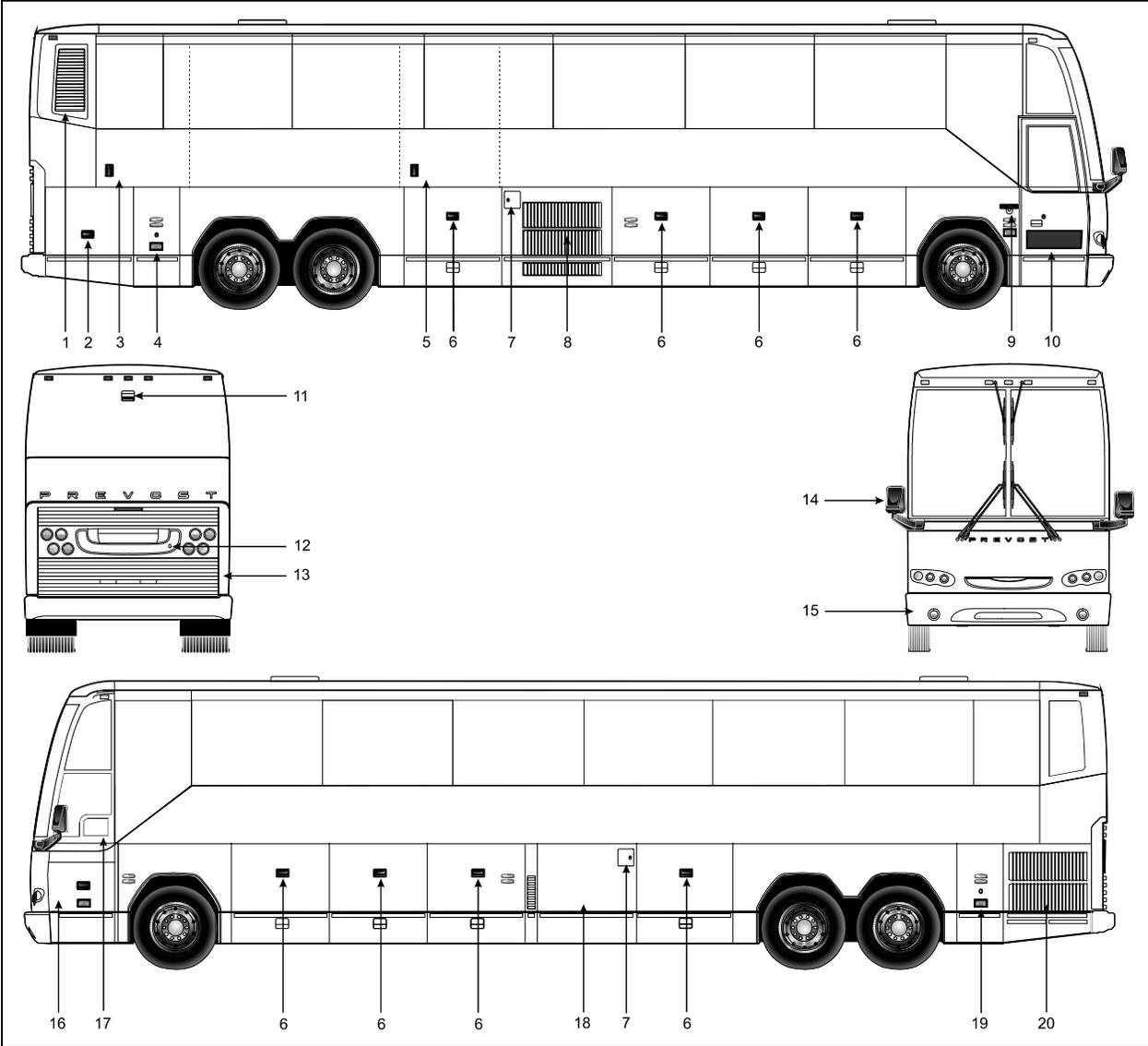
- Fuel is highly flammable and explosive. Do not smoke when refueling. Keep away from open flames or sparks.
- Do not run the engine or HVAC system with access doors left open. Close compartment doors before operating any equipment.
- Do not remove the surge tank filler cap or the cooling system pressure cap when the engine is hot. Let the engine cool down before removing filler caps.
- Do not attempt to push or pull-start the vehicle.
- The service life of the vehicle depends on the kind of maintenance it receives. Always record any problems and report them immediately to maintenance personnel.

DEFENSIVE DRIVING PRACTICES

- For city driving, allow a four to six second travel interval between your vehicle and the vehicle ahead. Increase this travel interval to six to eight seconds for highway driving. Increase time interval for driving at night or in foul weather.
- Be prepared to stop when approaching an intersection. The stopping distance of the vehicle increases with the weight and speed.
- Establish eye-to-eye contact with other drivers and with pedestrians. Use, high beam and low beam headlights, turn signals and horn as needed.
- On highway, don't stare at the road ahead. Keep your eyes moving. Check mirrors and dashboard instruments frequently.
- To keep the vehicle from drifting across lanes during highway driving, always look over the horizon on the road ahead.
- Adjust your speed to road conditions, traffic and visibility. Never exceed the posted speed limits.
- If another vehicle is following close behind, reduce your speed to let the vehicle pass.

For additional information about safe operation and defensive driving practices, contact the local department of motor vehicles authority.

COACH EXTERIOR

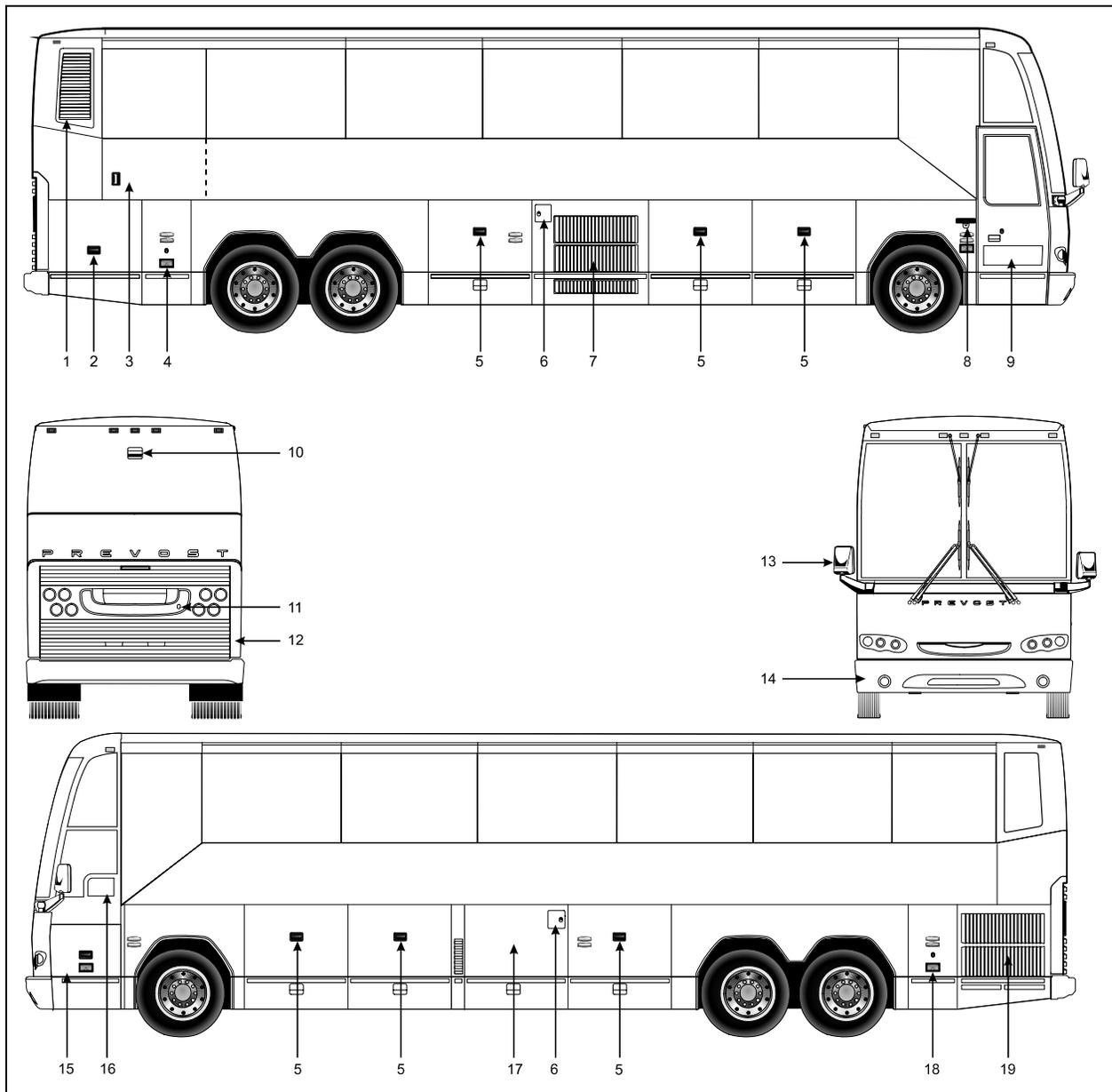


H3-45 EXTERIOR VIEW (TYPICAL)

18482

- | | |
|---|--|
| 1. Engine air intake | 11. Back up camera (optional) |
| 2. Engine compartment curb-side door | 12. 110/120 volt connector, for block heater |
| 3. Wheelchair access door (optional St. & St. lift) | 13. Engine compartment rear door |
| 4. Main power compartment (battery compartment) | 14. Rear-view mirror |
| 5. Wheelchair access door (optional Ricon lift) | 15. Spare wheel compartment |
| 6. Baggage compartment | 16. Front electrical and service compartment |
| 7. Fuel filler door | 17. Driver's power window |
| 8. Condenser compartment | 18. Evaporator compartment |
| 9. Entrance door control switch | 19. Rear electrical compartment |
| 10. Entrance door | 20. Radiator door |

COACH EXTERIOR

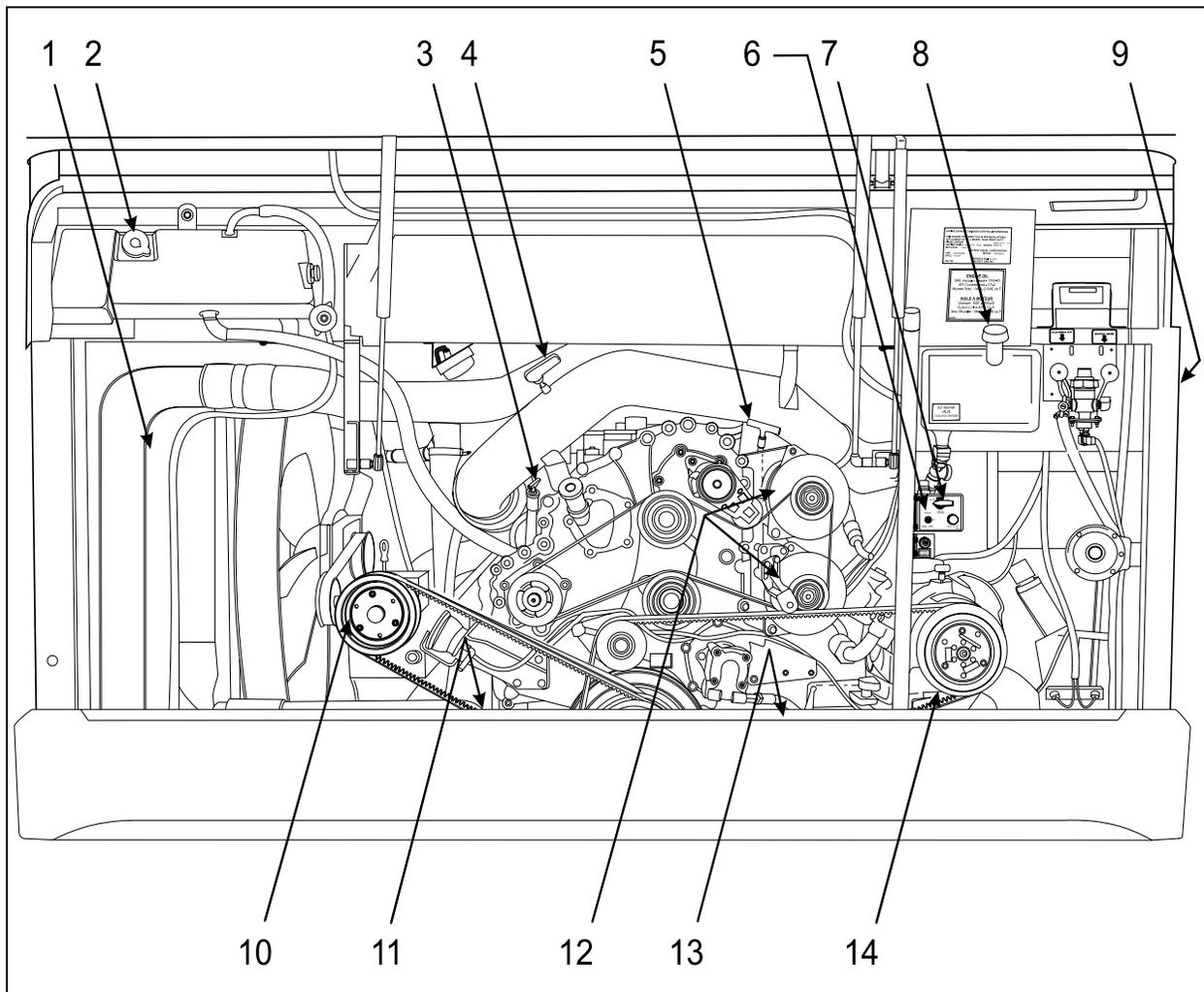


H3-41 EXTERIOR VIEW (TYPICAL)

18483

- | | |
|---|--|
| 1. Engine air intake | 11. 110/120 volt connector |
| 2. Engine compartment curb-side door | 12. Engine compartment rear door |
| 3. Wheelchair access door (optional St. & St. lift) | 13. Rear-view mirror |
| 4. Main power compartment (battery compartment) | 14. Spare wheel compartment |
| 5. Baggage compartment | 15. Front electrical and service compartment |
| 6. Fuel filler door | 16. Driver's power window |
| 7. Condenser compartment | 17. Evaporator compartment |
| 8. Entrance door control switch | 18. Rear electrical compartment |
| 9. Entrance door | 19. Radiator door |
| 10. Back up camera (optional) | |

ENGINE COMPARTMENT COMPONENTS



ENGINE COMPARTMENT

01108

- | | |
|--|---|
| 1. Radiator and charge air cooler; | 8. Engine oil reserve tank; |
| 2. Coolant fluid surge tank; | 9. Air filter; |
| 3. Transmission fluid dipstick; | 10. Radiator fan gearbox; |
| 4. Air filter restriction indicator; | 11. Engine coolant filter/conditioner and Engine oil filters; |
| 5. Engine oil dipstick; | 12. Alternators; |
| 6. Starter selector switch and Engine rear start push-button switch; | 13. Primary and secondary fuel filters; |
| 7. Belt tensioner control valve; | 14. Main A/C compressor. |

COACH EXTERIOR

ENGINE COMPARTMENT

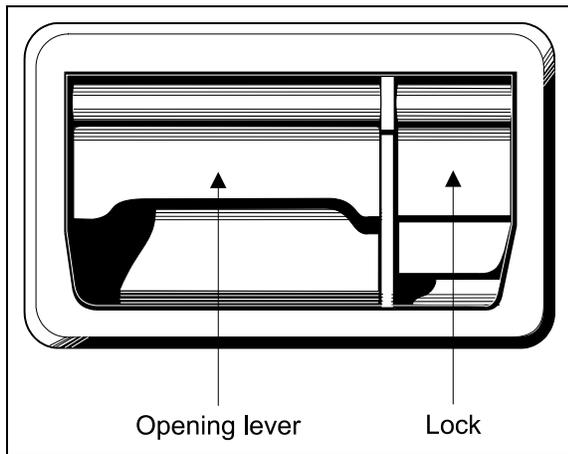
ENGINE COMPARTMENT CURB-SIDE DOOR

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

- Engine compartment rear door release lever;
- Davco Fuel Pro 382 filtration system;
- Primary & secondary air system fill valve;
- Hydraulic fluid tank;
- Cold weather starting fluid bottle;
- Wet air tank drain cock;
- Sump tank access cap.

This door can be locked or unlocked using the exterior compartment key or, if so equipped, by the central door locking system. To open, pull up the door handle to release the latch, then pull the door open. The curb-side door also has a safety catch to prevent it from closing inadvertently. Release the catch before attempting to close.

When open, lights illuminate in the engine compartment and a telltale light illuminates in the dashboard.



DOOR HANDLE

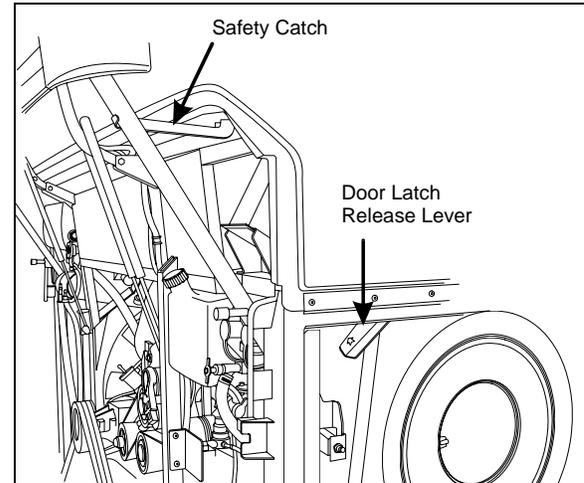
18184

Warning: Unless otherwise stated, do not run the engine when the engine compartment curb-side door is open.

ENGINE COMPARTMENT REAR DOOR

To open the rear engine door, first open the curb side door then press the release lever. The rear door release lever is located in the upper rear

section of the engine compartment, as seen when looking into the curb side engine compartment. Unlatch the door and pull it out and up. The door should stay open on it's own but it is recommended to always use the safety catch as shown.



OPENING OF THE ENGINE COMPARTMENT REAR DOOR

18331

This door provides access to the following equipment:

- Engine;
- Alternator(s);
- Compressor(s);
- Belt tensioning pressure control valve (see chapter 7, Care and maintenance);
- Starter selector switch (see chapter 5, Starting and stopping procedures);
- Plates and certification;
- Coolant fluid surge tank;
- Air filter restriction indicator;
- Couplings and valves for lavatory maintenance;
- Fresh water reservoir coupling;
- Engine oil dipstick;
- Engine oil reserve tank;
- Transmission oil dipstick;
- Coolant fluid surge tank access cap.

When open or not closed properly, lights illuminate in the engine compartment and a telltale light illuminates in the dashboard.

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

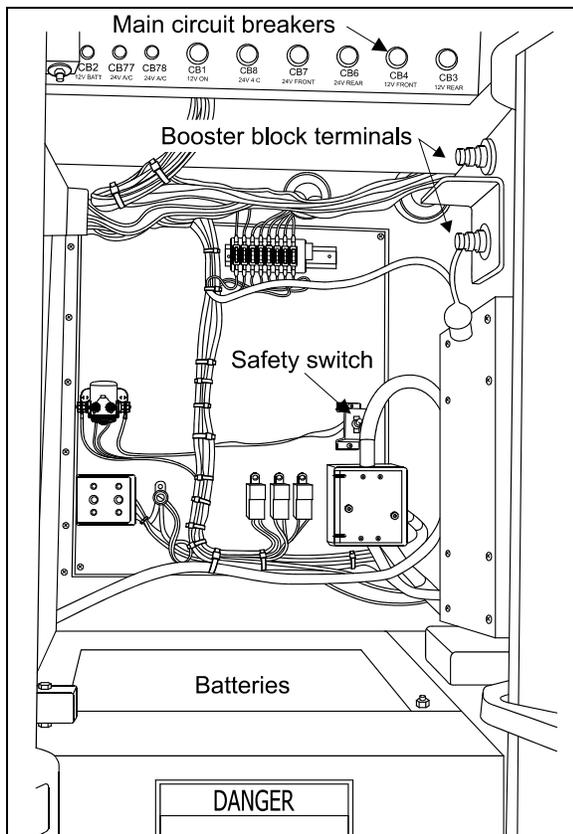
MAIN POWER COMPARTMENT (BATTERY)

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

- 12 volt batteries;
- Battery equalizer;
- Main circuit breakers (12 & 24 volts);
- Booster terminals;
- Safety switch;
- Battery charger (optional).

To open the door, insert the key in the lock and turn. The door will pop open.

Lights in the compartment turn *ON* automatically when the door is opened. A telltale light indicating a compartment door is open will illuminate on the dashboard.



MAIN POWER COMPARTMENT

18503

BAGGAGE COMPARTMENTS

Baggage compartments can hold a maximum load of 2000 lb each, spread evenly over the floor. The total combined weight of cargo and passengers must not exceed 15660 lb. The baggage compartments can be locked or unlocked by using the exterior compartment key.

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

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

Lights in the baggage compartments turn *ON* automatically when the door is opened. A telltale light indicating a compartment door is open illuminates on the dashboard.

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

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

Note: The baggage compartment doors can be locked/unlocked by the optional central locking system. The switch is on the L.H. dashboard. Refer to "Controls & Instruments" chapter.

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

FUEL FILLER DOORS

There is one fuel filler door on each side of the coach, providing added convenience for refueling. Both fuel filler doors must be opened with the exterior compartment key. To open, turn the key ¼ turn and pull the door open.

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

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

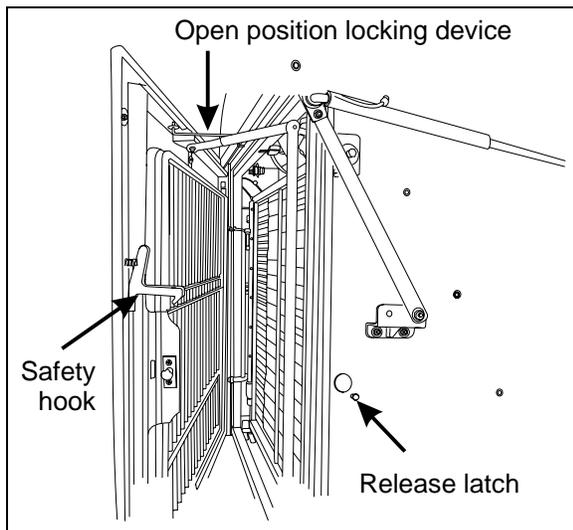
COACH EXTERIOR

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

A/C CONDENSER COMPARTMENT

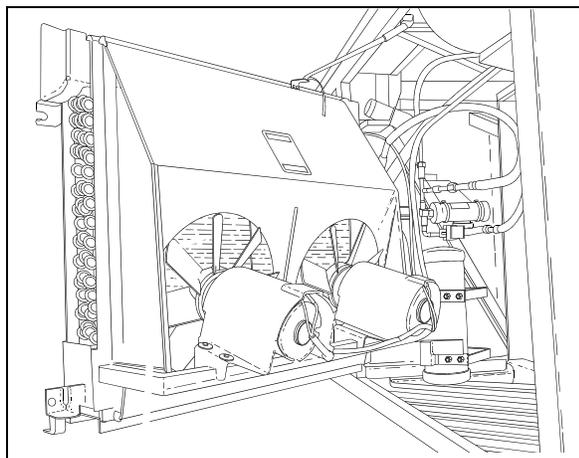
Pull the release latch located inside the adjacent baggage compartment to open the condenser door.

Note: The locking device must be unbolted to fully swing open condenser compartment door.



CONDENSER DOOR

18311



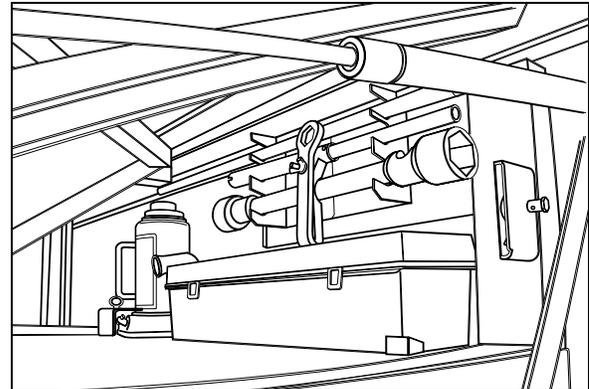
CONDENSER COMPARTMENT

22170

SPARE WHEEL COMPARTMENT

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

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



TOOLS IN FIRST BAGGAGE COMPARTMENT

13015

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

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

The bumper will lower gradually.

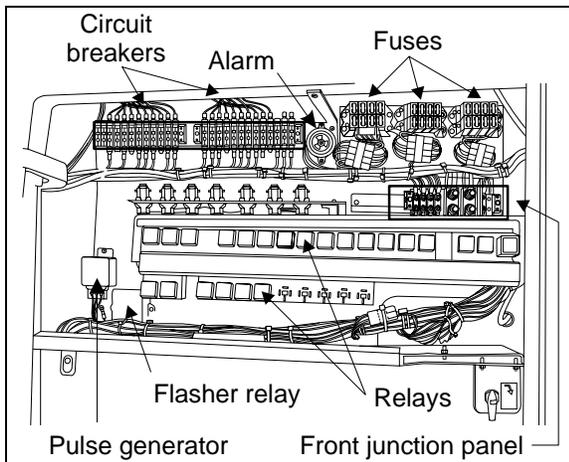
When closing the compartment, be sure the bumper is firmly in place.

FRONT ELECTRICAL AND SERVICE COMPARTMENT

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

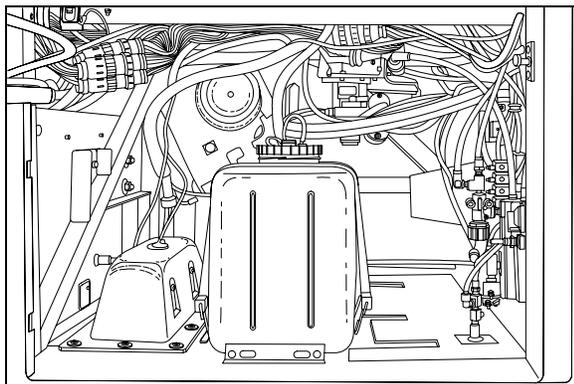
- Emergency door opening unlock valve;
- Front junction box;
- Circuit breakers and fuses;
- Upper wiper pulse generator;
- Turn signal flasher relay;
- Alarm;
- Resistors;
- Relays;
- Windshield washer reservoir;
- Accessories air tank purge valve;
- Accessories system fill valve;

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



FRONT ELECTRICAL & SERVICE COMPARTMENT 06461

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



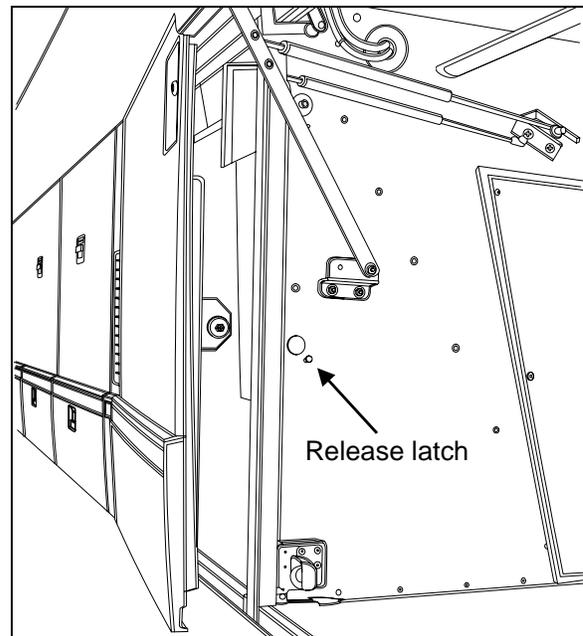
FRONT ELECTRICAL & SERVICE COMPARTMENT 14050

EVAPORATOR COMPARTMENT

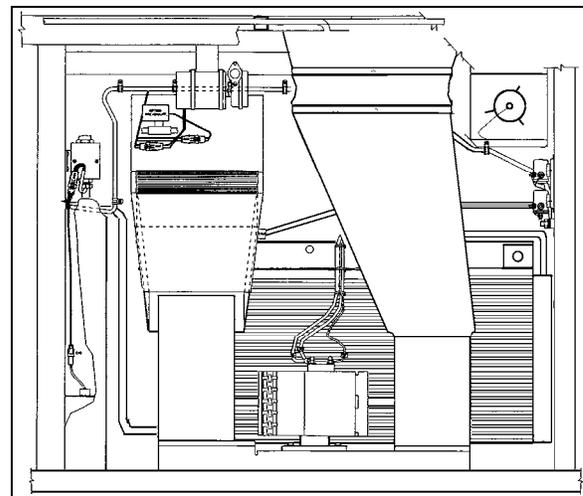
To access the evaporator compartment, pull the release latch located on the left side wall of the rearmost baggage compartment.

The evaporator compartment contains the following components located on the R.H. side wall when facing the compartment:

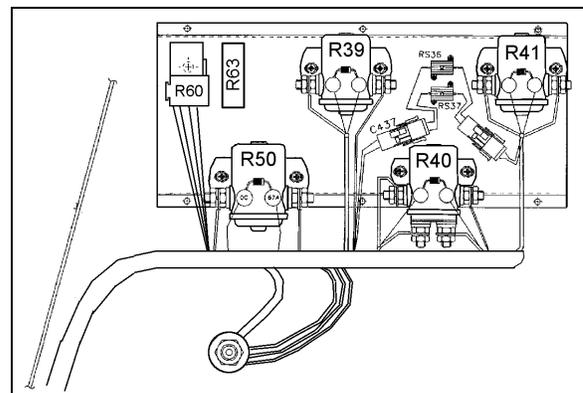
- Relay R39 – Condenser fan motor;
- Relay R40 – Condenser speed control HI;
- Relay R41 – Condenser speed control HI;
- Relay R50 – Evaporator motor speed control;
- Relay R60 – Evaporator motor speed control;
- Relay R63 – Time delay
- RS36 – Current limit for relay;
- RS37 – Current limit for relay.



EVAPORATOR COMPARTMENT ACCESS 18306



EVAPORATOR COMPARTMENT 22225



LOCATION OF RELAYS AND RESISTORS 06483

Relays and resistors are marked for easy servicing.

COACH EXTERIOR

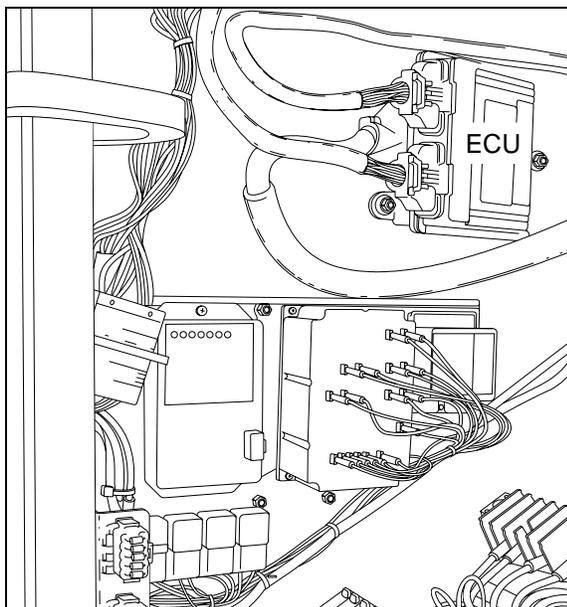
Note: It is important to keep the evaporator compartment door closed while checking the HVAC system to prevent faulty readings.

REAR ELECTRICAL COMPARTMENT

This compartment door must be opened using the exterior compartment key. The light in the compartment turns *ON* automatically when the door is opened and a telltale light illuminates in the dashboard.

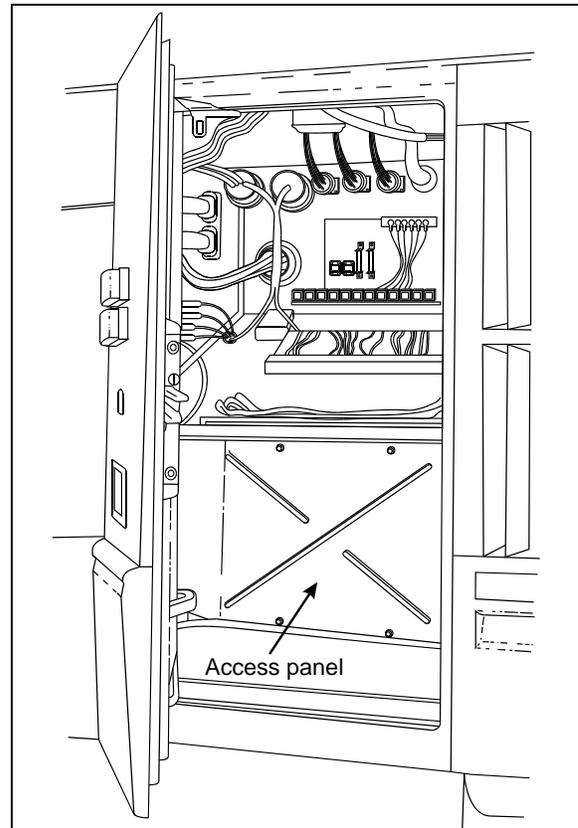
The rear electrical compartment contains the rear junction panel and the following components:

- ECU (Electronic Control Unit) for Allison World Transmission;
- Secondary circuit breakers;
- Relays;
- A/C module;
- A/C logic panel (W973B module);
- Diodes;
- Alternator module;
- Coolant heater (behind access panel).



REAR ELECTRICAL COMPARTMENT

06462



REAR ELECTRICAL COMPARTMENT

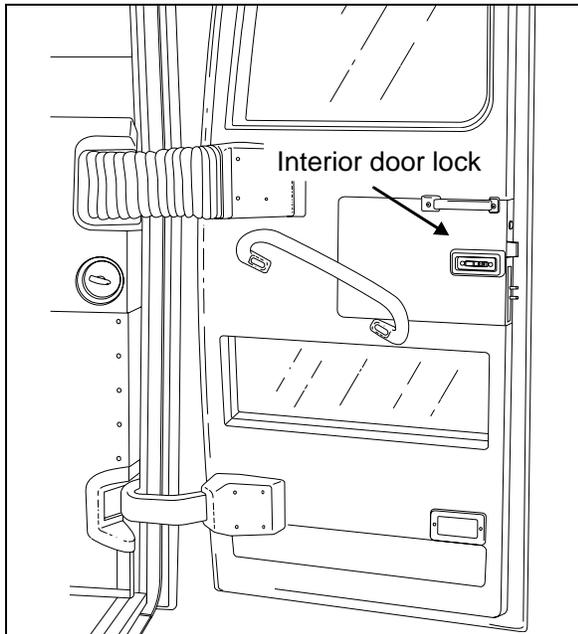
18361

ENTRANCE DOOR

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

To unlock the entrance door from the inside, slide the lock lever on the inside of the door to the left. If the orange tab on the door-lock lever is visible, the door is unlocked.

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

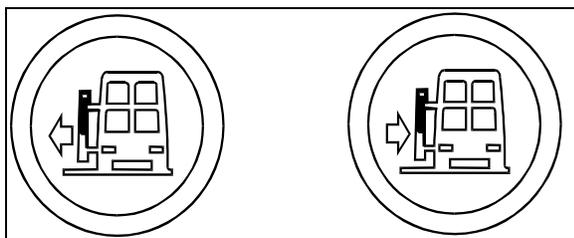


ENTRANCE DOOR

18437

ENTRANCE DOOR OPENING INTERIOR OPERATING SWITCHES

From the inside, open the door by pressing the door opening switch (red button) on the dashboard. Close by pressing the door closing switch (green button) on the dashboard. Refer to "Controls and Instruments" chapter for more information.

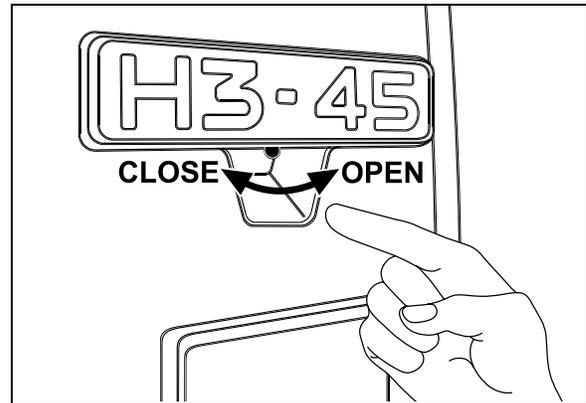


DASHBOARD SWITCHES

06464

ENTRANCE DOOR OPENING EXTERIOR OPERATING SWITCH

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



EXTERIOR DOOR OPERATING SWITCH

18316

DOOR OPERATION LOGIC

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

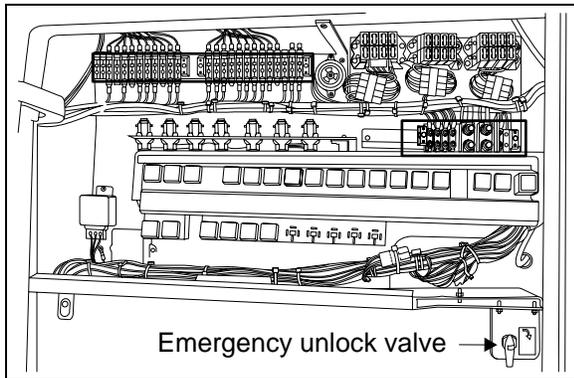
When the door is almost shut, a mechanism will finish the closing of the door. This works even when the door is shut manually.

EMERGENCY DOOR OPENING

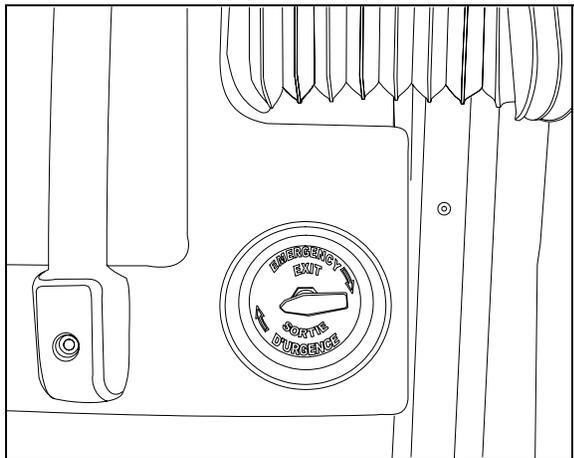
An unlock valve located in the front electrical and service compartment allows emergency opening of the entrance door from outside the coach. Another unlock valve located on the front wall, close to the entrance door allows emergency opening of the door from the inside.

To open the door in an emergency situation, the door must first be unlocked. Turn the unlock valve in the direction of the arrows and push (or pull) the door open. To close the door after emergency opening, return the valve to its initial position, open the door using the door cylinder, then close the door normally. Refer to "Safety Features and Equipment" chapter.

COACH EXTERIOR



FRONT ELECTRICAL & SERVICE COMPARTMENT 06461



INTERIOR UNLOCK AIR VALVE 12164

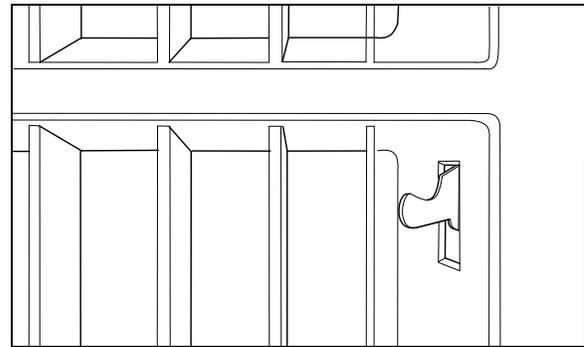
WHEELCHAIR LIFT DOOR

To open the optional wheelchair lift door, the coach must be parked on a flat and level surface with the parking brake on. The wheelchair access door swings to the side and is maintained open by a locking mechanism. Open the baggage compartment containing the lift mechanism (Ricon only). The baggage compartment door is located directly below the wheelchair lift door and it opens to the side. If the parking brake is not activated, a switch in the door will activate the parking brake when it detects the door is open.

Open the door completely until it locks in the open position. To close the door, lift on the locking mechanism arm and slam the door shut. Refer to "Other Features" for more information on operating the optional wheelchair lift.

RADIATOR DOOR

Open the engine radiator door by pushing down the release latch.

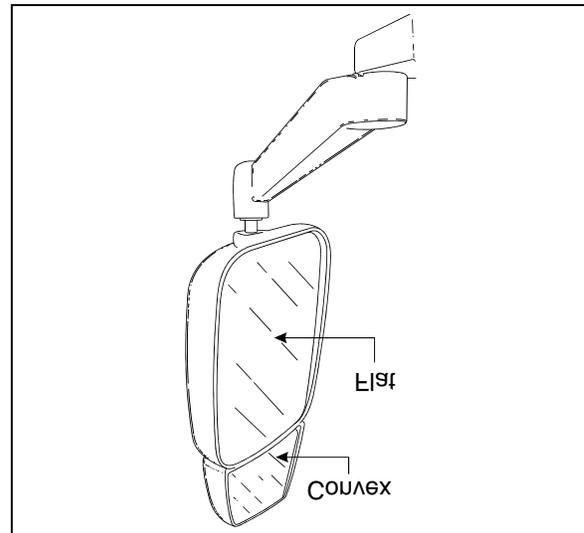


RADIATOR DOOR RELEASE LATCH

18305

REAR VIEW MIRRORS

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



REAR VIEW MIRRORS

18443

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

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

ELECTRICALLY ADJUSTED REAR VIEW MIRRORS (RAMCO)

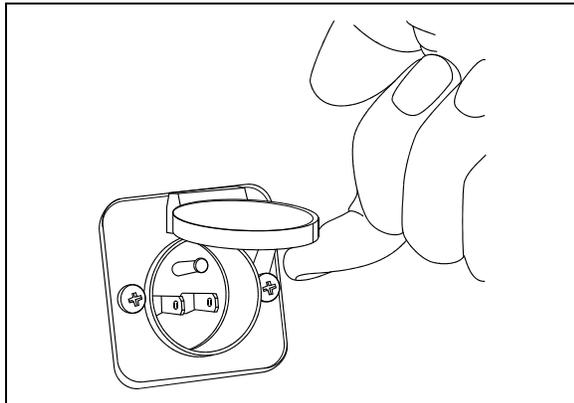
The mirrors are adjusted using the controls located on the L.H. control panel. Refer to "Controls & Instruments" chapter. Manual adjustment is also possible.

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

BACK UP CAMERA

An optional back up camera is available which provides the driver with visual assistance when backing up. Rear-view TV monitor is located at the dashboard L.H. side on the windshield post. For additional information, refer to "Controls & Instruments" and "Care and maintenance" chapters.

BLOCK HEATER CONNECTOR (110-120 VOLTS)



110-120 VOLT CONNECTOR

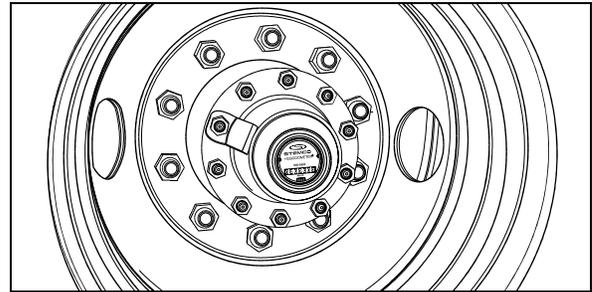
06390

All connectors must be used with a 110 - 120 volt grounded supply. A connector is located on the rear engine door and is connected to the engine block heater and to the fresh water tank heater, if equipped. Another optional connector may be located on the main power compartment door. It connects to the battery charger and allows for in-station lighting. Refer to "Other Features" chapter.

HUBODOMETER

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

Note: It is normal for hubodometer, transmission ECU and DDEC ECM to disagree on mileage.



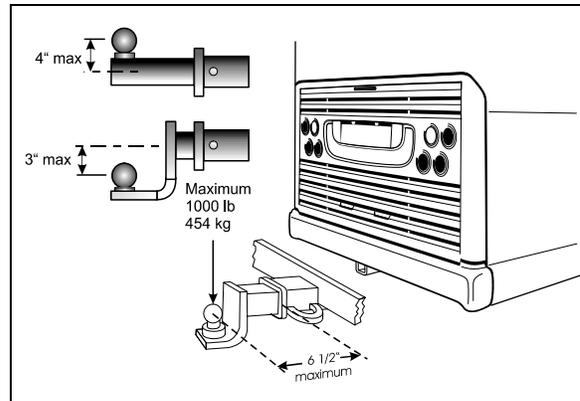
HUBODOMETER

13012

TRAILER HITCH

Your vehicle may be equipped as a special option with a factory installed trailer hitch which has been designed to meet SAE Class 4 specifications:

- **Maximum gross trailer weight: 10,000 lb (4,540 kg)**
- **Maximum tongue weight at 6 1/2 inches (165 mm) or less from coupling receiver : 1,000 lb (454 kg)**



TRAILER HITCH

18487

Warning: The draw bar and the ball used for towing the trailer should be rated for 10,000 lb capacity or more.

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

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

COACH EXTERIOR

Note: *The minimum requirement for a trailer weighing up to 10,000 lb when coupled to a 10,000 lb Prévost Trailer Hitch is as per the following :*

A) *Trailer must comply with **Federal Motor Carrier Safety Regulations 393.52** regarding trailer breaking capability.*

B) *The trailer coupling attachments meet the following minimum static test load requirements :*

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

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

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

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

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

D) *Two lengths of safety chain shall be used. The strength rating (minimum breaking force) of each individual chain and its connecting means shall be equal to, or exceed the trailer GVWR.*

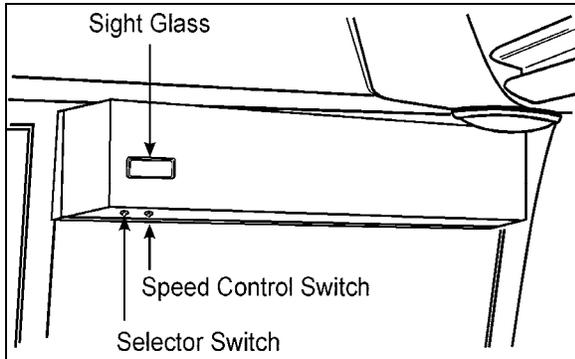
E) *Towing vehicle must be equipped with engine or transmission retarder. The engine or the transmission retarder on the vehicle must be functional at all time (to be inspected frequently).*

COACH INTERIOR

ELECTRICAL DESTINATION SIGN

Turn the optional destination sign lighting on and off using the rocker switch located on the dashboard. Refer to Controls & Instruments chapter.

Depress the selector switch until the desired destination appears in the sight glass and is aligned with the arrow.



ELECTRICAL DESTINATION SIGN

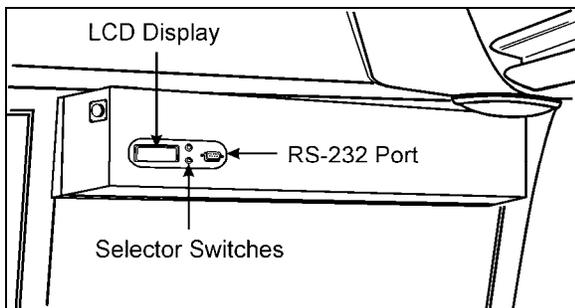
OEH3B210

Note: Use the servo control switch to change the speed of the destination sign. Use high speed to search for the desired destination and slow speed to align the arrow in the sight glass.

ELECTRONIC DESTINATION SIGN

Turn the optional destination sign lighting on and off using the rocker switch located on the dashboard. Refer to Controls & Instruments chapter.

To change the destination, depress the selecting switches until the desired destination appears in the Liquid Crystal Display.



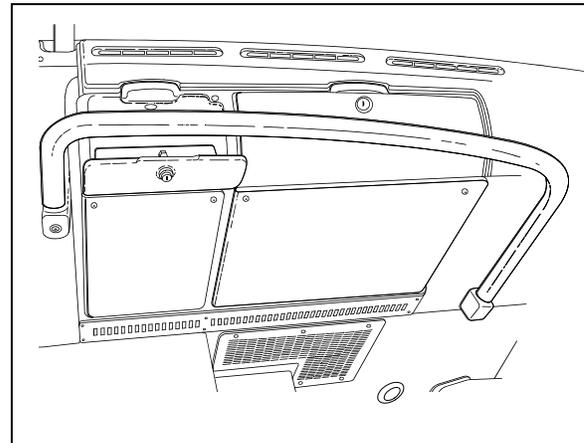
ELECTRONIC DESTINATION SIGN

2EH3B210

Note: The destination sign must be programmed with a computer connected to the RS-232 connector prior to first use. Follow the instructions on the computer disk to install and run the software.

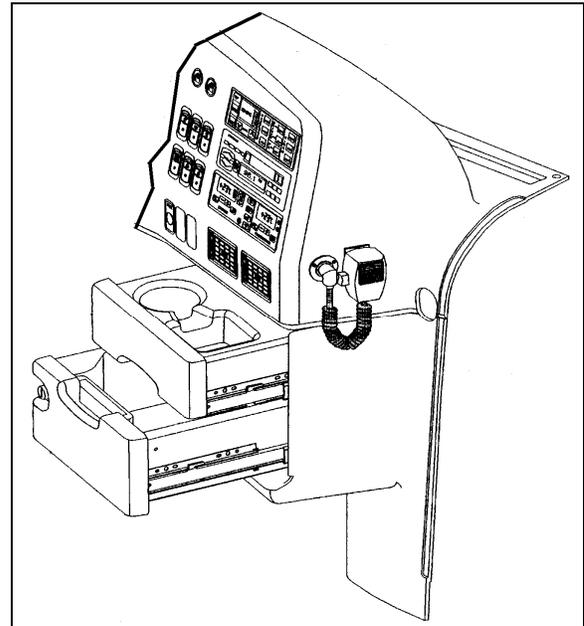
UTILITY COMPARTMENTS

Two lockable utility compartments are located at the base of the windshield. Two stack drawers are located on the dashboard R.H. side. The top drawer includes a built-in cup holder and the lower one has a 12 volt appliance socket. To open this drawer, you must first depress the lock.



UTILITY COMPARTMENTS

18504

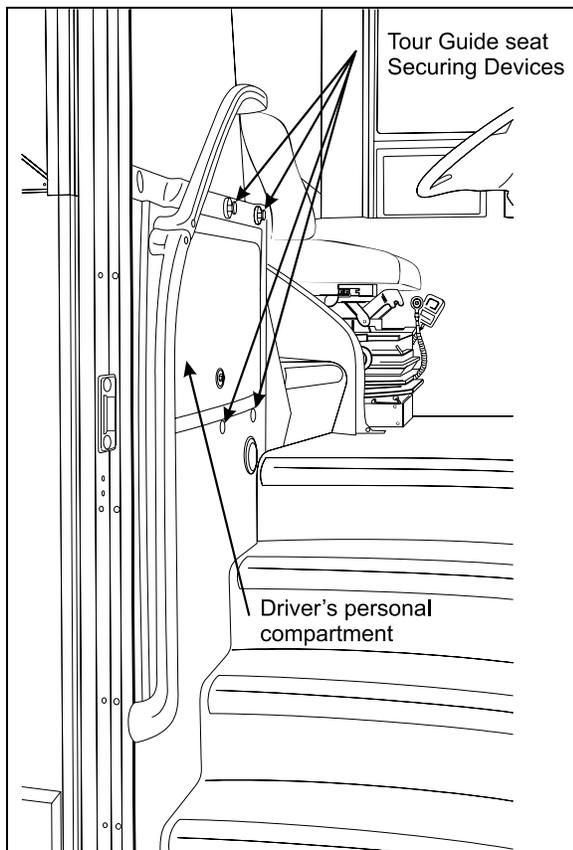


UTILITY COMPARTMENTS IN CONSOLE

18444

A lockable compartment for the driver is located on the L.H. side of the entrance stepwell. This compartment may be locked using the appropriate key. A tour guide seat is available as an option and is installed in front of the driver's compartment using the securing devices as shown hereafter.

COACH INTERIOR



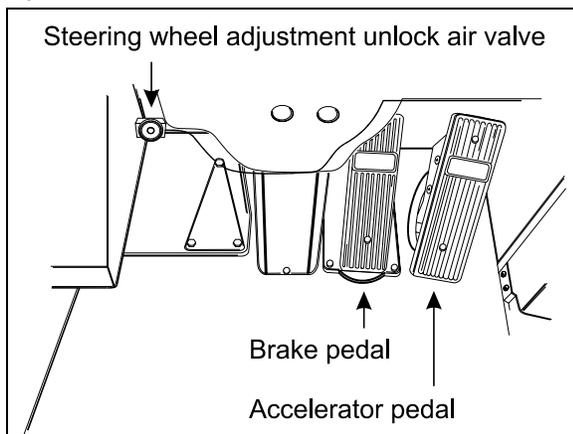
DRIVER'S PERSONAL COMPARTMENT

18507

The last compartment is located on the lateral control panel. It is lockable and equipped with a 12 volt appliance socket. To open this compartment, you must first depress the lock

STEERING WHEEL ADJUSTMENT

To unlock the steering wheel for tilt and telescopic adjustment, push with the left foot on the valve button located in the footwell. Refer to Controls & Instruments chapter, paragraph: Foot-Operated Controls.



FOOT OPERATED CONTROLS

00023

Warning: Do not adjust the steering wheel while driving. Loss of control could result. Park the vehicle safely and apply parking brakes before adjusting the steering wheel.

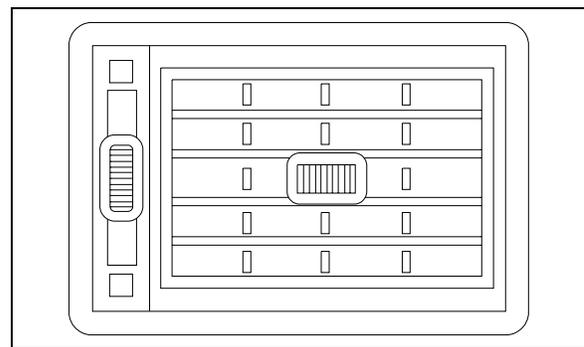
INTERIOR MIRRORS

Two manually adjustable mirrors are located in the driver's area. The one located in the upper left corner enables to eliminate the blind spot on the R.H. side of the coach. Adjust it to see through the R.H. side trapezoidal window. A central mirror allows the driver to see in the aisle. Adjust mirror manually.

DRIVER'S AREA ADJUSTABLE AIR REGISTERS

The HVAC system has adjustable registers to control air flow around the driver's area. Three are located on the dashboard, two on the R.H. side and one on the left (refer to Controls & Instruments chapter). Two more registers are located near the steering wheel column, under the dashboard. These registers are not adjustable but may be electrically open or closed by means of the HVAC control panel. Two registers located in the driver's area are part of the passengers heating & ventilation system, one register is located behind the driver's seat and one is located close to the door, below the modesty panel wall for step de-icing. The direction and volume of air flow for these two registers are adjustable manually.

Use the HVAC control panel to set air temperature.



AIR REGISTER

22147

DRIVER'S SEAT - ISRI

The coach is equipped with one of two models of ISRI driver's seats. Standard is the mechanically adjusted seat. The pneumatic model is available as an option. Both seats may

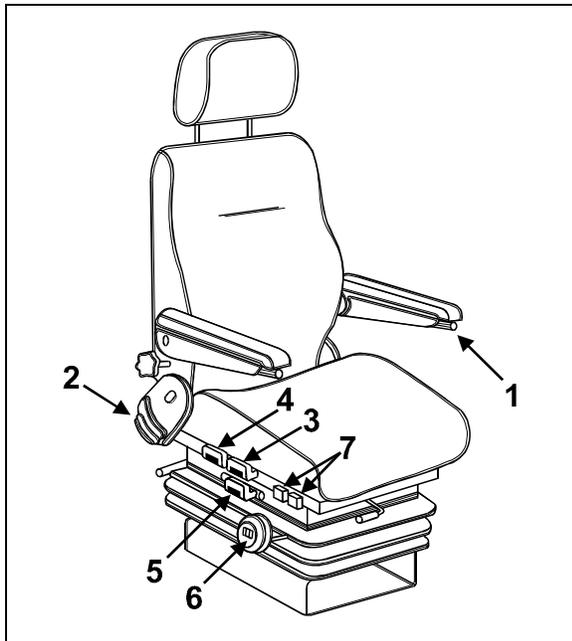
be equipped with lumbar supports, heated cushions and adjustable armrests. Both seats are equipped with safety belts.

Warning: The driver's seat must be adjusted to allow the driver to easily reach the controls of the coach. Never adjust seat while driving vehicle as this could result in loss of vehicle control.

MECHANICAL ISRI SEAT

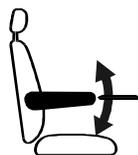
Driver's Seat Adjustment

ISRI seat can be adjusted to the desired driving position by following the instructions listed below:



DRIVER'S SEAT ADJUSTMENT (MECHANICAL) OEH3B220

Armrest



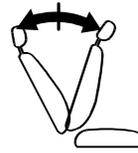
The driver's seat can be equipped with two folding armrests which can be raised or lowered for convenience.

To lower the armrest, turn the control knob (1) counterclockwise

without applying pressure on the armrest, push the armrest to the desired position.

To raise the armrest, raise to the desired position then turn the control knob clockwise until it stops.

Backrest



Lift lever (2) then adjust backrest to desired angle.

Tilt (front)



To lower or raise the seat's front section, pull handle (3) up and push or pull the seat cushion.

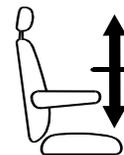
Tilt (rear)



To lower or raise the seat's rear section, pull handle (4) up and push or pull the seat cushion.

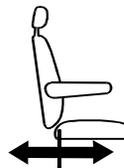
Warning: To avoid pinching the fingers between buckle and controls, lower safety belt buckle before adjusting seat height.

Up and Down



Pull both handles (3 and 4) up to adjust height of the seat.

Fore and Aft



To adjust distance between driver and dashboard, pull handle (5) up and slide the seat forward or backward.

Note: Fore-and-aft seat adjustment control may also be located at the front of the seat.

Suspension



For maximum mechanical suspension performance, rotate handwheel (6) until your body weight (in pounds) is shown on the indicator.

COACH INTERIOR

The seat suspension resistance can be changed to suit the driver. Turn handwheel clockwise to increase suspension resistance and counter-clockwise to decrease resistance.

Note: Air suspension seats self-adjust to the driver's weight. There is no handwheel suspension adjustment.

Lumbar Support



To inflate the upper lumbar support bellows, depress the front rocker switch (7) upward. To deflate, depress the rocker switch downward.

Follow the same procedure to inflate and deflate the lower bellows using the rear rocker switch.

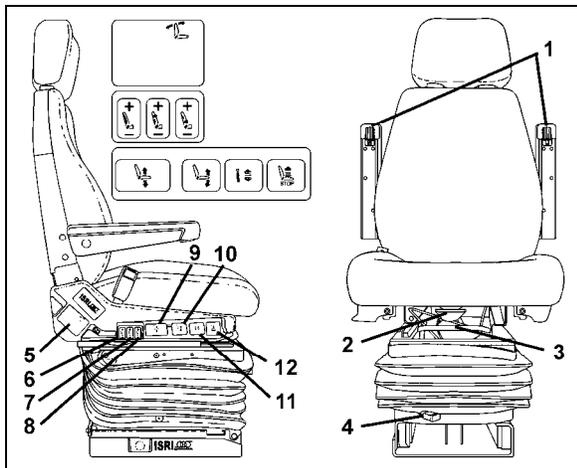
Headrest



The headrest can be adjusted forward, rearward and vertically by 2 inches (50 mm). Directly move headrest to desired position.

Warning: For best protection, position headrest behind your head, not behind your neck.

PNEUMATIC ISRI SEAT



PNEUMATIC DRIVER'S SEAT

18385

Armrest (1)

Rotate control knob to select desired arm-resting angle. When not in use, raise armrest parallel with backrest.

Seat Cushion (2)

Provides optimum comfort and support for any driver size. Adjustable to 50mm length.

Fore-and-aft (3)*

Pull handle up and slide seat forwards or backwards to adjust distance between seat and dashboard.

Isolator (4)

Reduces horizontal vibration, ensuring smooth ride.

Backrest (5)

Lift lever to select proper adjustment angle of backrest.

Air Side Bolster (6)

Offers desired side support to avoid body side-way.

Air Lumbar (7) (8)

Provides back support with upper and lower settings, ensuring comfort during lengthy sitting.

Air Height Adjustment (9)

Moves seat up or down independently of other seat settings. 100mm total travel.

Adjustable Seat Recline (10)

Allows easy adjustment of four-setting inclination.

Adjustable Shock Absorber (11)

Choose stiff or soft ride infinitely.

Quick Air Release (12)

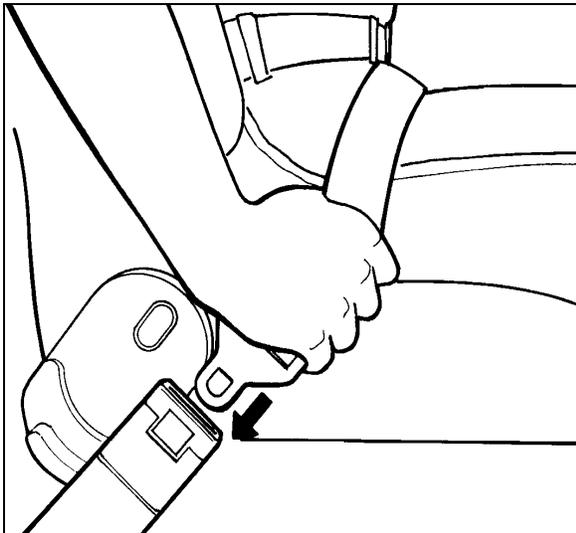
Exhausts all air from suspension, allowing for easy entry/exit. Returns seat to previous position.

SAFETY BELTS

The driver's seat is equipped with a retractable safety belt as required by State, Provincial and Federal regulations. To fasten, pull seat belt out of the retractor and insert the latch plate into the buckle until it clicks. No special adjustment is required since the reel device is self-adjusting. If

seat belt operation becomes defective, report to a Prevost Car service center immediately.

Note: The safety belt must be pulled out slowly and continuously, otherwise it will lock the reel before the latch plate reaches the buckle. If this happens, allow the belt to retract completely and repeat the procedure correctly.



TO FASTEN SEATBELT

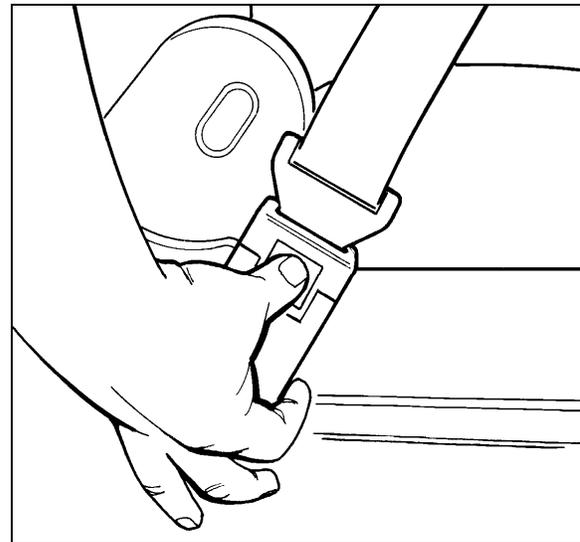
18028

Warning: A snug fit with the lap belt positioned low on the hips is necessary to maximize driver safety. The belt should not be worn twisted. Avoid pinching belt and/or belt hardware in seat mechanism. Do not wear belt over rigid or breakable objects, such as eyeglasses, pens or keys as these may cause injuries.

Caution: Never bleach or dry clean safety belt.

To unfasten belt, press the red button in center of buckle and allow belt to retract. If the belt does not fully retract, pull it out and check for kinks or twists. Make sure that it remains untwisted as it retracts.

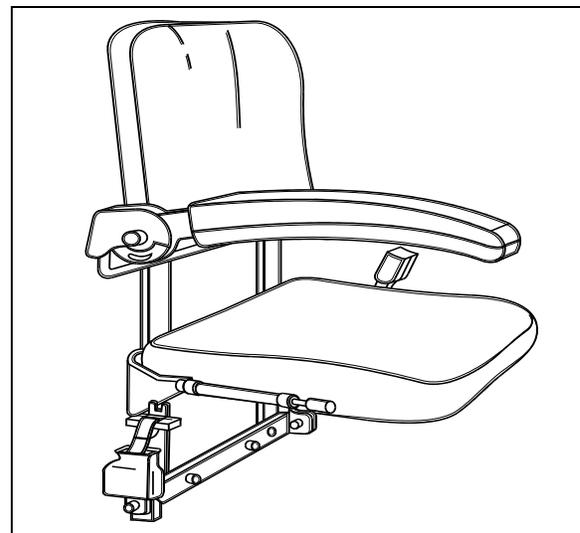
Warning: Most State and Provincial laws require that safety belts be worn when they are supplied with the seat.



TO UNFASTEN SEATBELT

18029

TOUR GUIDE SEAT



TOUR GUIDE SEAT

OEH3B222

The optional folding tour guide seat is equipped with a retractable arm rest and safety belt. The seat can be folded up for convenience when embarking and disembarking passengers.

The tour guide seat can be removed and stored in the driver's personal compartment. To remove the seat from the stairwell wall, unscrew and remove the two anchoring pins and washers at the bottom of the seat assembly. Raise and unhook the seat assembly.

Warning: Make sure tour guide's safety belt is buckled up prior to departure.

COACH INTERIOR

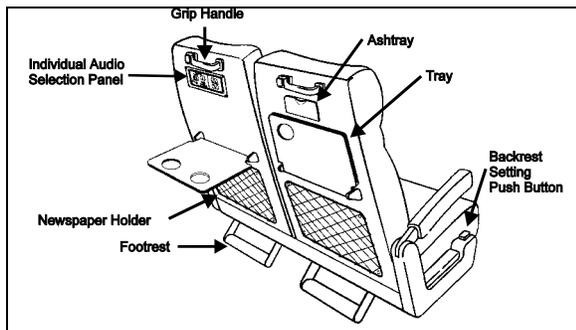
MICROPHONE JACKS

Up to six microphone jacks for the PA system can be located in the following locations:

- On the side wall of the driver's lateral control panel;
- On the right hand side of the dashboard;
- One optional outlet for the tour guide on each of the modesty panels;
- One optional outlet on the lavatory wall, behind the last row of seats;
- One optional outlet under the overhead storage compartment, at the rear of the coach.

PASSENGER SEATS

Passenger seats may be equipped with grip handles, ashtrays, newspaper holders, trays, cup holders and footrests.



PASSENGER SEAT EQUIPMENT

OEH3B226

All seats are track-mounted so that the seating configuration can be changed. Each set is mounted on rectangular aluminum bases to make cleaning between the base and side wall easier.

Passenger seat backrests can be tilted by using the push-button located on the base of the seat. Depress and hold push-button, then adjust backrest to the desired angle. Release push-button to lock backrest in position.

A folding armrest is installed on the aisle side of the passenger. Another folding armrest is located between the two seats and can be raised for passenger convenience. A fixed armrest is installed on the window side of the seat.

SWIVEL SEATS

The coach may be equipped with two sets of swivel seats to allow installation of card tables. The swivel seat can be rotated for passenger

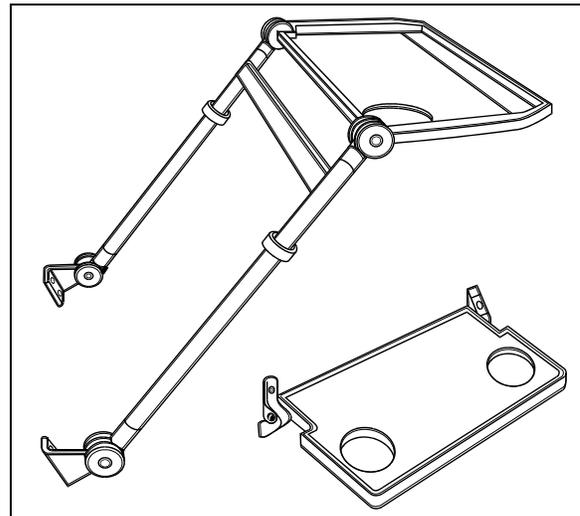
privacy. To rotate seats, unscrew the wing nut from under each seat cushion then remove cushions. Remove the four wing screws, pull seats toward the aisle and rotate the seat counter-clockwise. Align mounting holes, secure with wing screws and install seat cushions.

Note: Instructions for making swivel seat adjustments are affixed on the rear frame under the seat cushion.

FOLDING TRAYS

Two optional folding tray models can be installed in the coach.

Note: Both tray models as well as the tray installed in each modesty panel, are equipped with tumbler holders.



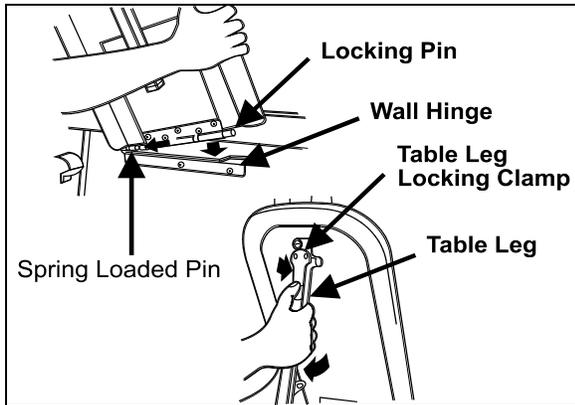
FOLDING TRAY MODELS

OFH3B232

CARD TABLES

Two card tables are provided as standard equipment and are used in the passenger swivel seat configuration. The card tables are stored in the overhead storage compartments in separate stowage bags.

To install the card table, hold it at 45° (degrees) to the side wall. Insert the spring-loaded pin then the locking pin into the hinge. Push on the locking clamp to release the leg. Unfold the leg until the clamp locks it in position.



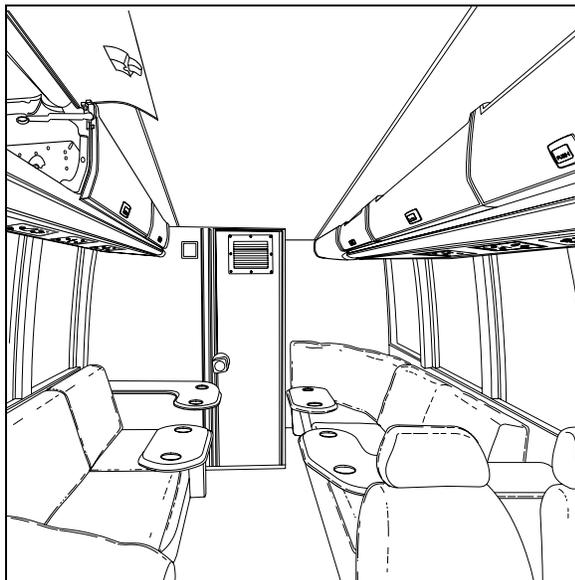
CARD TABLE INSTALLATION

OEH3B234

QUICK-LOUNGE SYSTEM

"Quick-Lounge" is a quick-fit modular system providing luxurious seating accommodations for passengers.

The optional "Quick-Lounge" system occupies the same space as the paired seating configuration it replaces. The existing seat spacing remains unchanged.



QUICK-LOUNGE

18445

OVERHEAD CONSOLE

One airplane type overhead console is installed for each row of twin seats. Such amenities as reading lights, air vents and an optional service bell are controlled from this panel.

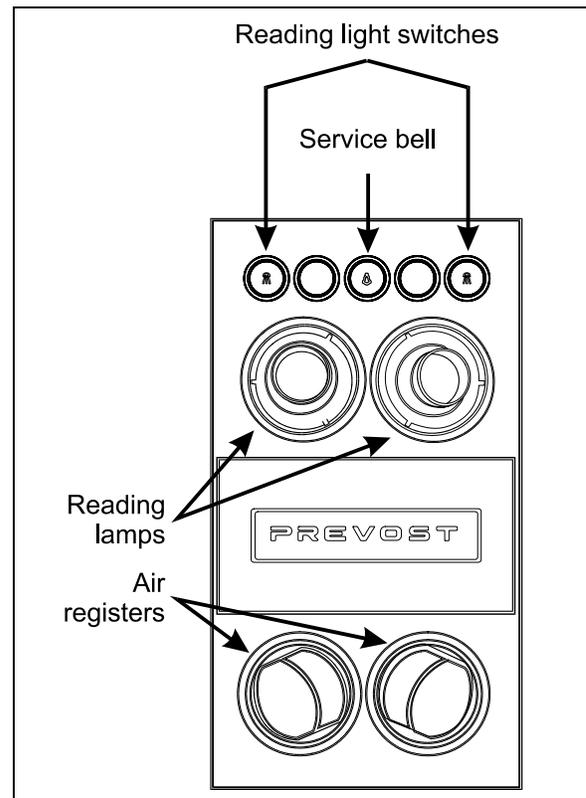
ADJUSTABLE AIR REGISTERS

Adjustable registers located on the overhead console provide air flow to the passengers. Air flow can be directed. Passengers can orient

individual registers by rotating the nozzle. To adjust air flow, passengers must open or close the flaps. Activation of the fans is done by depressing a rocker switch on the dashboard. Refer to Controls & Instruments chapter.

SERVICE BELL

Pressing the service button on the overhead console will illuminate the button providing a visual cue for service personnel and, if activated, will sound a chime in the driver's area. The chime system is activated by a rocker switch located on the dashboard. Refer to Controls & Instruments chapter. Passengers may also use the chime system to request a stop for disembarking. Press the service button a second time to cancel the service request.



OVERHEAD CONSOLE

23137

READING LIGHTS

Reading lights are located on the overhead console and mounted underneath the overhead storage compartments. Depressing a rocker switch located on the dashboard (refer to Controls & Instruments chapter) will activate the reading light circuit and allow passenger control of reading lights.

COACH INTERIOR

WINDOWS

The coach is equipped with flush-mounted “Galaxsee” type windows all around and a split-window windshield for maximum visibility.

PANORAMIC WINDOWS

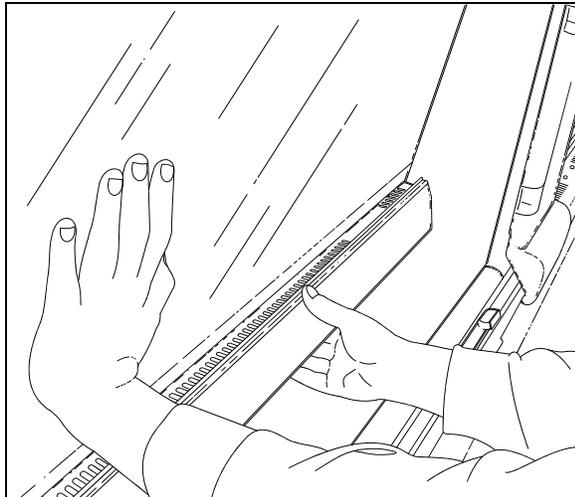
Panoramic side windows can come in either single pane or, as an option, double pane (thermopane) glass. Some of these windows are of the fixed type and cannot be opened. Others can be easily opened to serve as emergency exits.

Fixed Windows

These windows are mechanically attached to the structure and cannot be opened.

Emergency Windows

These windows can be opened from inside the vehicle as emergency exits. A decal on window sills indicate the location of the emergency windows. To open an emergency window, lift the window release bar (sill) and push the window open from the bottom.



EMERGENCY WINDOW

18391

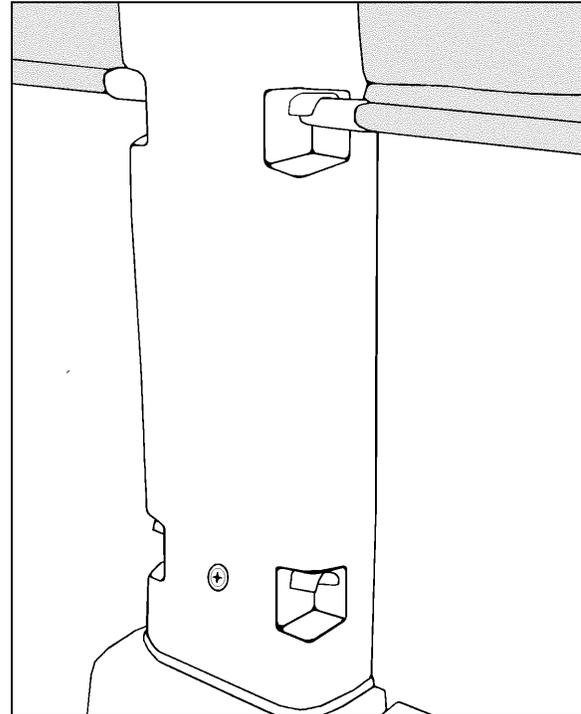
To close, lift the release bar and pull the window into position. Push down on release bar to lock the window shut.

For more information on emergency features, refer to Safety Features and Equipment chapter.

Window Sun Shades

Passenger windows may be equipped with pull-down sun shades. To operate, pull down the shade and insert the hem into the first or second

catch. To retract pull out from the slots and guide the shade back up.



PASSENGER SUN SHADES

23130

DRIVER'S POWER WINDOW

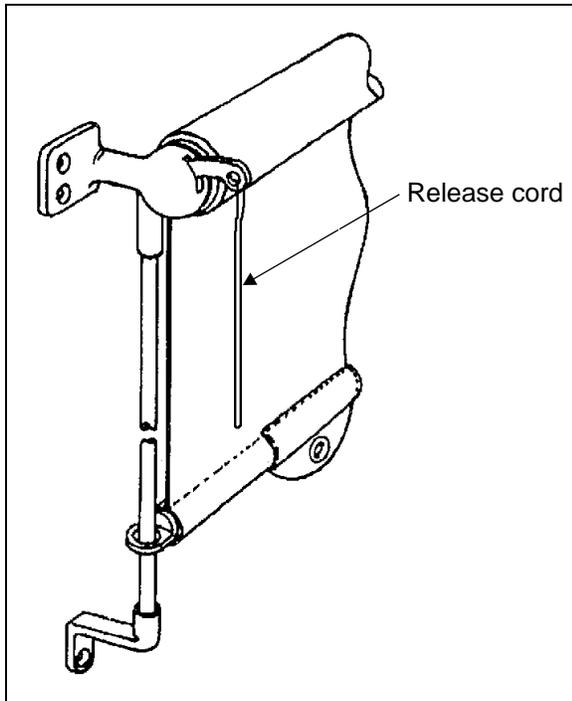
The driver has a power window on the left side of the coach. The window is controlled by a rocker switch located on the lateral control panel. Refer to “Controls and Instruments” chapter.

Driver's window shades

Two electrically-operated shades are installed behind the windshields. Two rocker switches on the dashboard operate each shade individually. Refer to “Controls and Instruments” chapter for more information.

Caution: The electric shades should only be operated electrically. Pulling down manually may damage the mechanism.

This vehicle is provided with a spring release type sun shade on the driver's left side window. Another spring release type shade is available on the optional driver's guard. To operate, pull down the shade by its hem to the appropriate position and release. It will remain in position. To raise, depress the unlocking lever and guide the shade back up using the other hand.



SPRING RELEASE SUNSHADE

23019

VENTILATION HATCH

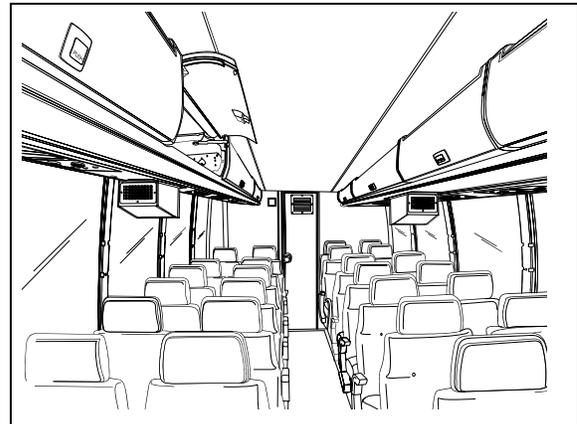
A ventilation hatch is installed on the roof at the rear of the coach. A second, optional hatch can be installed on the roof at the front of the coach. To open the hatch, push up with both hands and pull down to close. The ventilation hatch can be completely removed for emergency exit. Refer to "Safety Features and Equipment" chapter.

Warning: Be aware of coach overhead clearance when traveling under overpasses with the ventilation hatch (es) open. Check for maximum clearance height.

OVERHEAD COMPARTMENTS

Passenger carry on baggage is stored in overhead compartments on each side of the coach. A first aid kit is located in the first front curb side overhead storage compartment. An optional video cassette player and a CD player may be installed in the first front driver's side overhead storage compartment.

To open the optional closed overhead storage compartments, push the handle in to release the latch, then let go. A pressurized cylinder opens the door.



OVERHEAD STORAGE COMPARTMENTS

18390

Note: The overhead storage compartments have a minimum amount of separators installed so as to quicken inspection for forgotten objects.

Note: An optional lock can be installed on the first front driver's side overhead storage compartment door to protect the optional audio/video equipment.

WASTE CONTAINER

The waste container is located on the lavatory wall, and is accessible through an opening on each side of the wall. A small door, located on the aisle side, gives access to the waste container for cleaning.

GALLEY

The optional galley may include features such as a microwave oven and refrigerator to accommodate hot or cold food and beverage service. The galley's electrical power circuit is activated by a rocker switch located on the dashboard. Refer to Controls & Instruments chapter.

LAVATORY

The lavatory is located in the rear curb side corner of the coach. It is equipped with a chemical flush toilet, bathroom tissue dispenser, wash-basin, towel dispenser, waste container, mirror ashtray, and cleaning cabinet, containing a coiled hose. A liquid soap dispenser and moist towel dispenser are optional.

Locking the lavatory door from the inside will illuminate a fluorescent light in the lavatory and two outside signs to indicate occupation. One sign is located on the outer wall of the lavatory and another sign is located over the windshield.

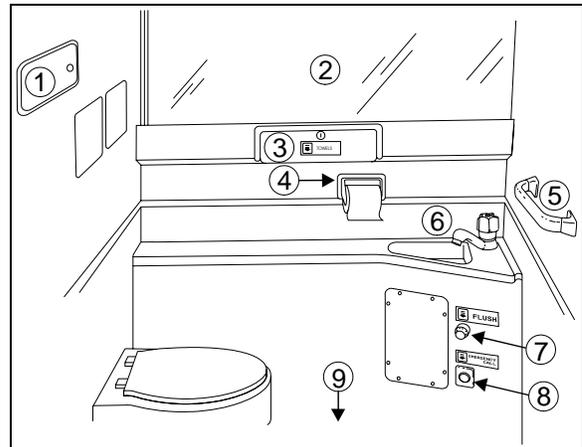
COACH INTERIOR

A telltale light on the dashboard will illuminate to inform the driver when the lavatory is occupied. A night-light is permanently lit in the lavatory when the ignition switch is in the ON position.

If emergency assistance is required, the lavatory occupant can actuate a buzzer that will sound in driver's area. The buzzer push-button and instruction label are located on the wall of the lavatory.

The lavatory has its own ventilation system that operates continuously when the ignition switch is in the "ON" position.

The fresh water tank may be equipped with an immersion heater that is supplied by the 110/120 volt connector for the engine block heater.



LAVATORY

23035

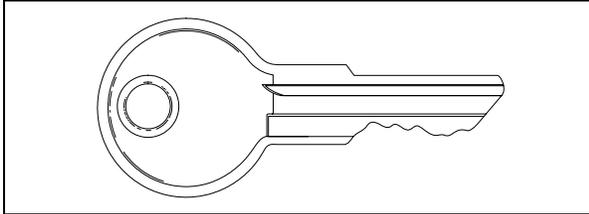
1. Cleaning cabinet;
2. Mirror;
3. Paper towel dispenser;
4. Toilet paper roll;
5. Grip handle;
6. Faucet;
7. Flush button;
8. Emergency call button;
9. Waste basket.

CONTROLS AND INSTRUMENTS

KEYS

Depending on options, up to nine different keys are provided with the coach:

IGNITION KEY



IGNITION KEY 23056

Coaches may be equipped with an ignition lever instead of an ignition key. With the battery master switch activated, turn the ignition key counterclockwise to the ACC position to activate the electrical circuits.

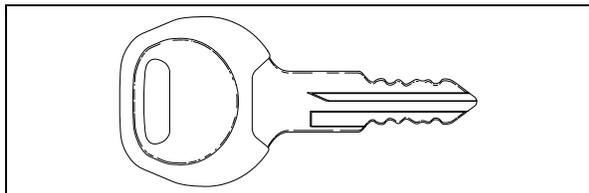
To start the engine, turn the key clockwise to the *START* position, then release it. The key will set back to the *ON* position.

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

Note: When the battery master 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, ECU power (Transmission), coolant heater electronic timer, coolant heater and water re-circulating pump, pro-driver, power-verter, entrance door and fire alarm.

EXTERIOR DOOR LOCKS KEY

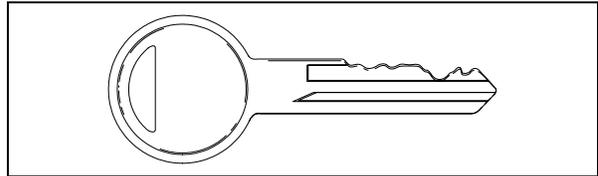
Use this key to lock or unlock the entrance door, the baggage bay doors the electrical and service compartment doors and the fuel filler doors.



EXTERIOR DOOR LOCKS KEY 23276

It is also possible to lock or unlock the baggage bays and service compartments from the inside by means of the optional central locking system.

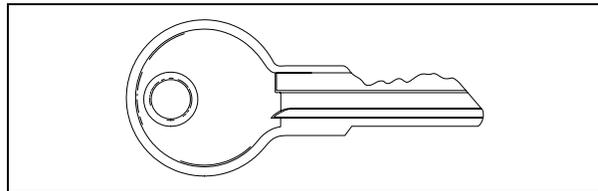
DRIVER'S PERSONAL COMPARTMENT KEY



DRIVER'S PERSONAL COMPARTMENT KEY 23277

Use this key to lock or unlock the driver's personal compartment, accessible through the stairway wall.

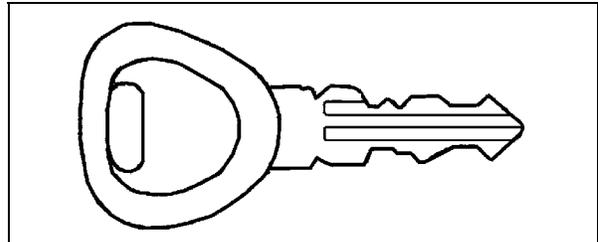
UTILITY COMPARTMENT KEY



UTILITY COMPARTMENT KEY 23056

This key locks or unlocks the utility compartments and the utility drawers on and around the dashboard.

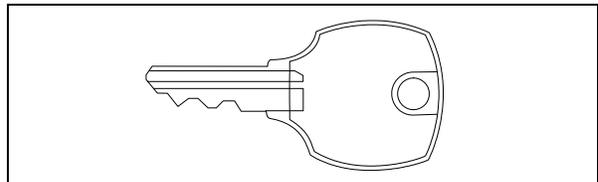
LAVATORY DOOR LOCK KEY



LAVATORY DOOR LOCK KEY 23302

Use this key to lock or unlock the lavatory.

HAND TOWEL DISPENSER KEY



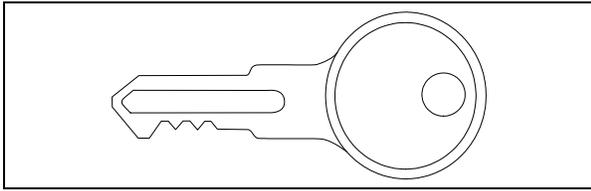
BATHROOM TISSUE DISPENSER KEY 23247

This key opens the hand towel dispenser in the lavatory.

Note: The optional moist towel dispenser uses a different key.

CONTROLS AND INSTRUMENTS

VCR COMPARTMENT KEY

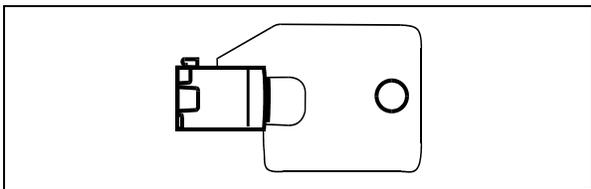


VCR COMPARTMENT KEY

23246

Use this key to lock or unlock the overhead compartment containing the video cassette player.

TV MONITOR KEY



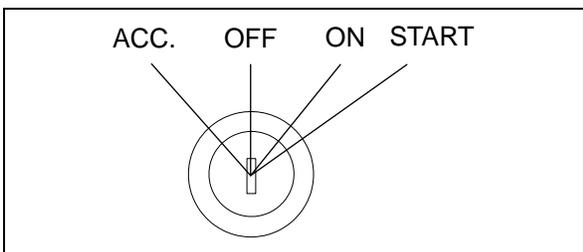
TV MONITOR KEY

23248

Use this key to remove the TV monitors for maintenance.

Note: For your protection against theft, record the key numbers and keep this information in a safe place. Do not keep these records inside the 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.

IGNITION SWITCH



IGNITION SWITCH POSITIONS

06354

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 when 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 battery master switch, the central

locking system and Message Center Display (MCD). Maintain the switch in this position when parked overnight or for an extended period.

Note: The battery master switch is *ON* when the hazard flashers are activated, even if the key is in the *OFF* position.

ACCESSORIES

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

The 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 when the switch is in the ACC position plus the transmission, engine and accessories, ABS system, wipers, 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.

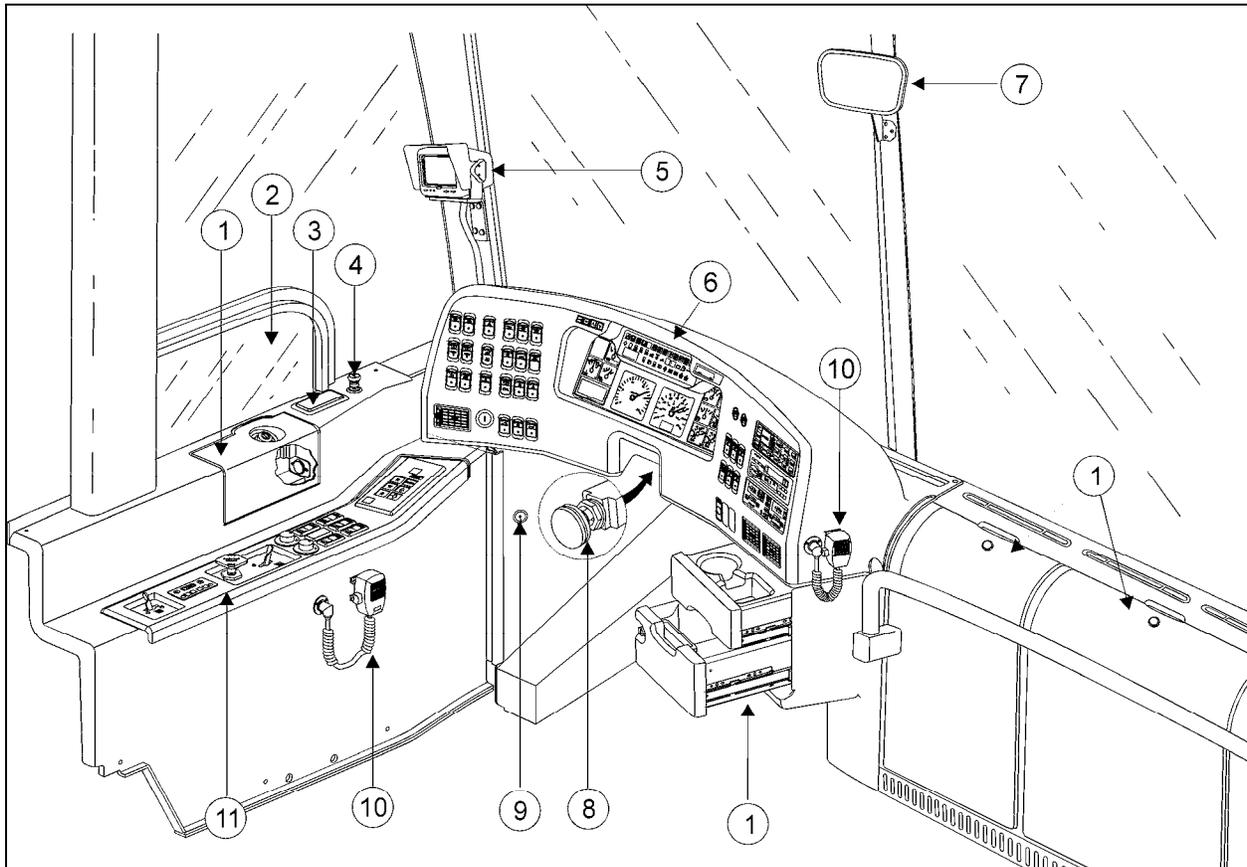
The ignition switch is equipped with a starter protection which inhibits turning the key to the *START* position if the key has not previously been turned to the *OFF* position.

Warning: If the “STARTER ON” Indicator light on the dashboard cluster remains illuminated even after releasing the ignition switch, Stop the engine immediately and set the battery master switch (ignition key) to the *OFF* position. Have the starter checked immediately.

Caution: *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.*

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

CONTROLS AND INSTRUMENTS

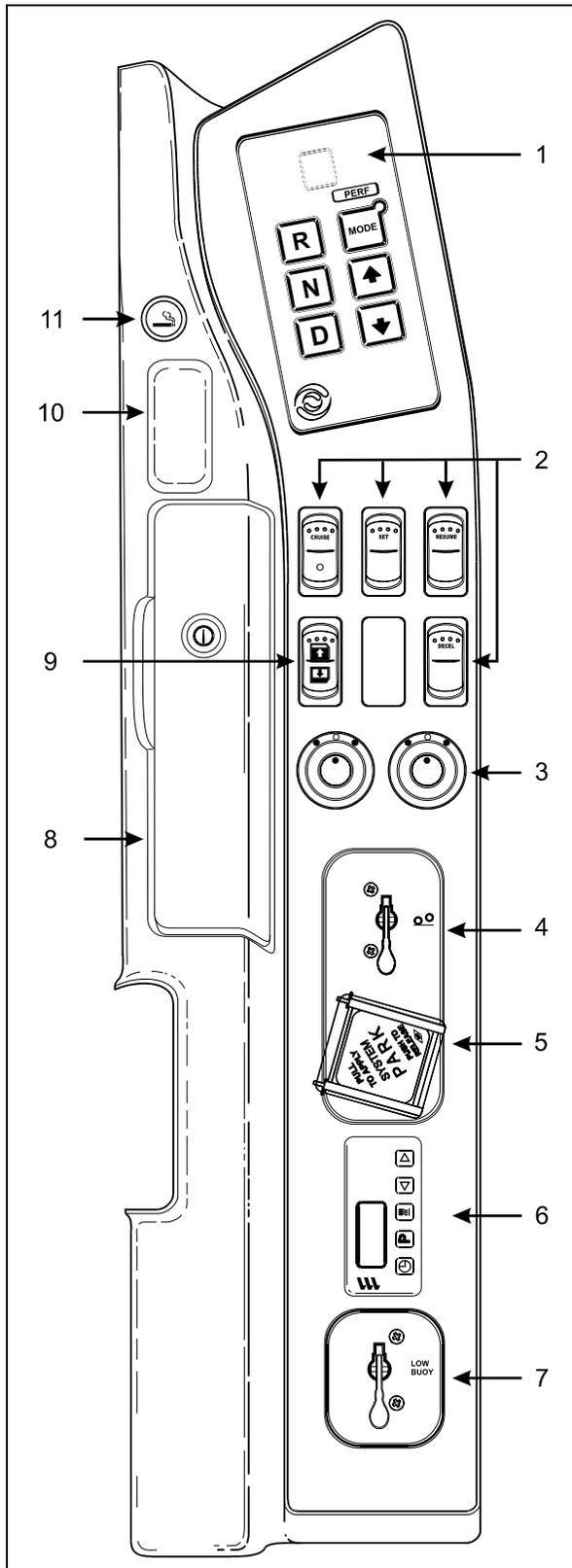


DRIVER'S AREA

18486

1. Utility compartments
2. Driver's power window
3. Ashtray
4. Cigarette lighter
5. Rear-view TV monitor
6. Dashboard
7. Mirror
8. Foot-operated steering wheel adjustment
9. Diagnostic Data Reader (DDR) receptacle
10. Microphone
11. Lateral control panel

LATERAL CONTROL PANEL



LATERAL CONTROL PANEL (TYPICAL)

18446

1. Transmission Control Pad;
2. Cruise Control Switches (Optional);
3. Mirror Controls;
4. Tag Axle Control Valve;
5. Parking Brakes Control Valve;
6. Coolant Heater Timer (Optional);
7. Low Buoy Control Valve (Optional);
8. Utility compartment;
9. Driver's Power Window Switch;
10. Ashtray (Optional);
11. Cigarette Lighter (Optional).

TRANSMISSION CONTROL PAD (1)

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

CRUISE CONTROL SWITCHES (2)

The cruise control is part of the DDEC IV electronic engine control that will maintain a set speed when the vehicle is traveling above 20 mph (32 km/h) without having to use the accelerator pedal.

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.

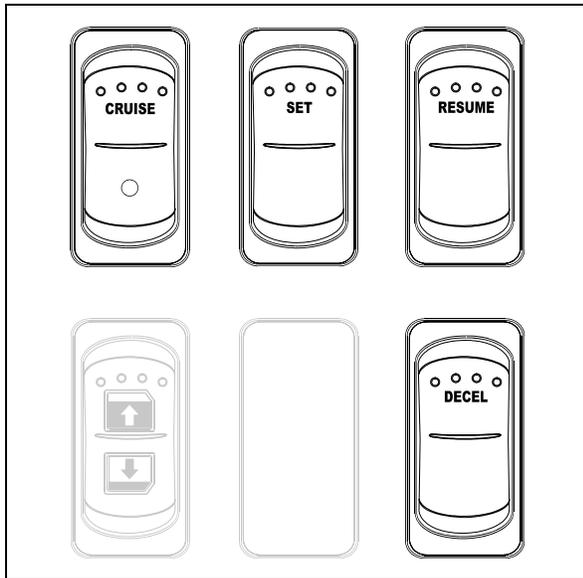
Warning: Do not put the transmission in the neutral (N) position while driving with cruise control. This may cause the engine to over-speed and result in a loss of driving control.

Setting Coach Speed

Depress the **CRUISE** rocker switch to activate the cruise control. A LED on the switch illuminates when the cruise control is activated. Accelerate the vehicle to the desired cruising speed using the accelerator pedal. Depress and release the **SET** switch then remove foot from the accelerator pedal. This will set the vehicle cruise speed and store it in memory.

Note: The **CRUISE** and **RESUME** switches do not operate at speeds below 20 mph (32 km/h).

CONTROLS AND INSTRUMENTS



CRUISE CONTROL SWITCHES

06233

Increasing Set Speed

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

- Accelerate using the accelerator pedal until the desired cruising speed is reached. Depress and release the **SET** switch.
- Depress and hold the **RESUME** switch until the desired cruising speed is reached. When the **RESUME** switch is released, the new cruising speed will be stored in the cruise control memory. The **RESUME** switch does not operate at speeds below 20 mph (32 km/h).

When driving with cruise control ON, each time the **RESUME** switch is momentarily depressed, the cruising set speed is raised by 0.6 mph (1.0 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 cruise speed setting can be decreased by one of the following methods:

- Depress and hold the **SET** switch until the desired cruising speed is reached. When the **SET** switch is released, the new cruising speed will be stored in the cruise control memory.

- Depressing momentarily the **SET** switch will decrease set cruising speed by 0.6 mph (1.0 km/h).
- Slightly apply the service brake.
- Depress and release the **DECEL** switch.

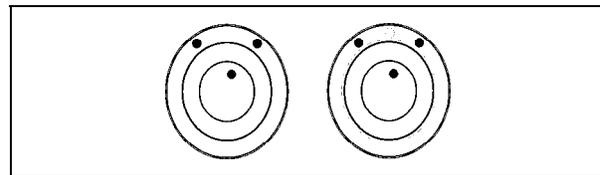
After disengaging the cruise control, you can return to the preset cruising speed by pressing and releasing the **RESUME** switch providing that your speed is above 20 mph (32 km/h).

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.

Warning: Every time the **SET** or the **RESUME** switch is depressed results in a decrease or increase (respectively) in cruising set speed of 0.6 mph (1.0 km/h).

MIRROR CONTROLS (3)



MIRROR CONTROLS

06374

Turn left pointer knob counterclockwise for 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.

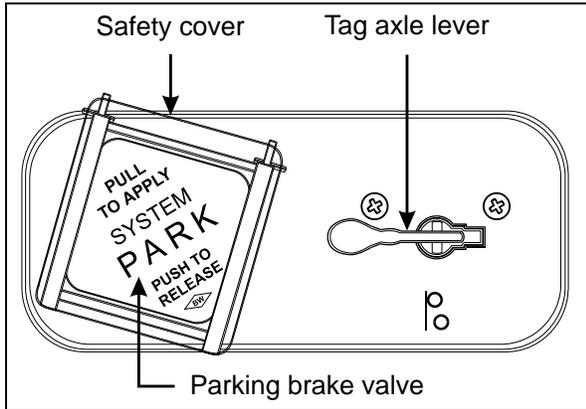
Note: If the mirror assemblies on your vehicle do not include convex mirrors, only one mirror control knob will be installed for both mirrors. To operate, turn knob to the left for L.H. mirror adjustments and to the right for R.H. mirror adjustments, then use the joystick control to adjust the selected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

TAG AXLE CONTROL VALVE (4)

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.

PARKING BRAKES CONTROL VALVE (5)

Spring-loaded parking brake are applied by pulling up the control valve knob and protector assembly. Lift the safety cover and push down to release brakes. Refer to "Safety Features and Equipment" chapter.



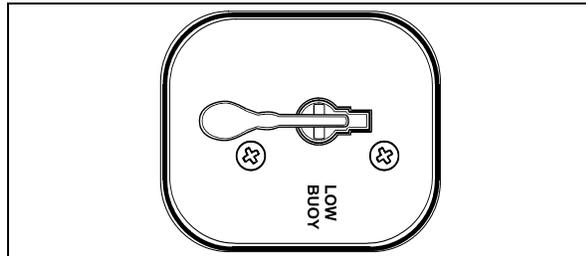
CONTROL VALVES

12129

COOLANT HEATER TIMER (6)

Use the timer to program the start time of the optional engine coolant heater. Refer to "Other Features" chapter for additional information.

LOW BUOY CONTROL VALVE (7)



LOW BUOY CONTROL VALVE

12165

Toggle back the control lever to lower the coach by about four inches. Returning the lever to the normal (forward) position raises the vehicle back to its normal height.

Warning: Use only below 5 mph (8 kph).

UTILITY COMPARTMENT (8)

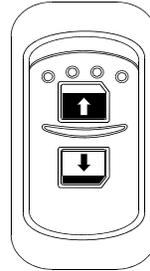
To open the compartment, push down on the lock button and swing the cover open towards the inside of the coach.

A 12 volts DC power outlet is located inside the pocket.

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.

POWER WINDOW SWITCH (9)



06338

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

Caution: Close power window when parked or leaving the coach unattended.

ASHTRAY (10)

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

Warning: To prevent a fire, never put paper or plastic wrappers in the ashtray. Empty ashtray often.

CIGARETTE LIGHTER (11)

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.

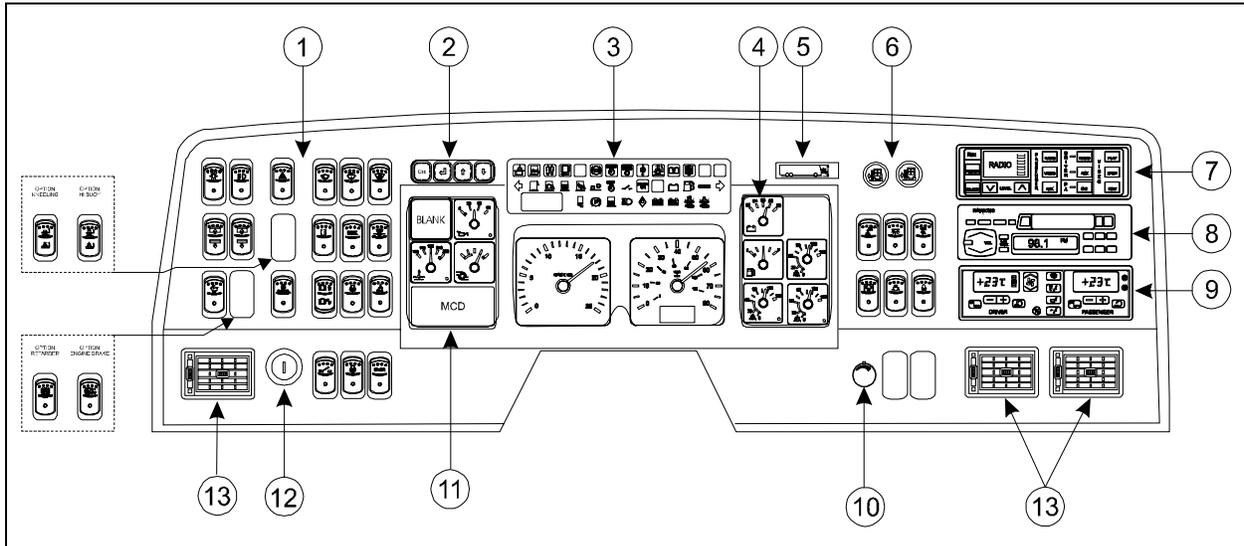
DIAGNOSTIC DATA READER (DDR) RECEPTACLE

To ease troubleshooting of the DDEC, WT 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.

CONTROLS AND INSTRUMENTS

DASHBOARD



DASHBOARD

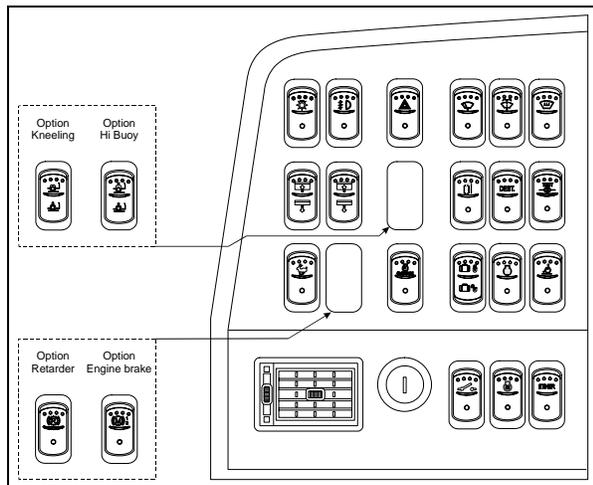
06466-B

1. L.H. Dashboard panel
2. Message Center Display keyboard (MCD)
3. Telltale Panel
4. Gauges
5. Vehicle Clearance Information
6. R.H. Dashboard panel
7. Control Head
8. Radio
9. HVAC Control Unit
10. Brightness Control
11. Message Center Display (MCD)
12. Ignition Switch
13. Air Registers

CONTROL SWITCHES

High quality laser-engraved switches are used to control many of the features of the vehicle. Many switches have an embedded indicator 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

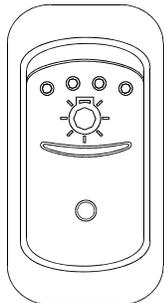


L.H. DASHBOARD PANEL

06347

The L.H. dashboard panel includes controls for the operation of the coach, it also includes the ether start control, the ignition switch and an adjustable air register.

Headlights

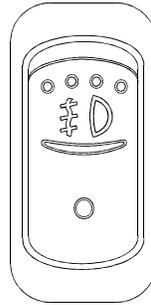


06254

Press 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

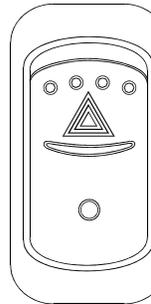


06255

Optional halogen fog lights provide better visibility in fog and precipitation. They improve close range visibility and provide added safety.

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

Hazard Warning Flashers

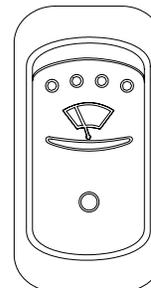


06256

Press 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.

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.

Upper Windshield Wipers



06257

Press the rocker switch to the first position to activate the upper wipers intermittently.

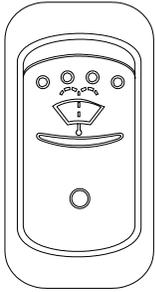
Press to the second position for continuous operation of the upper wipers.

Caution: To avoid damaging the wiper blades or scratching the windshield, do not operate the wipers when the windshield is dry. Also, loosen frozen wipers before operating.

Note: Lower windshield wipers are activated using the multi-function lever. Refer to paragraph: "Steering Column Controls" in this chapter.

CONTROLS AND INSTRUMENTS

Upper Windshield Washer



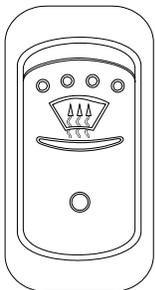
06258

Press the rocker switch to spray the upper windshields with washer fluid. Windshield wipers will automatically come on and stop a few seconds after releasing the switch.

Note: Lower windshield wipers are activated using the multi-function lever. Refer to paragraph: "Steering Column Controls" in this chapter.

Caution: Do not operate the washer mechanism while the washer fluid reservoir is empty. This may damage the washer fluid pump.

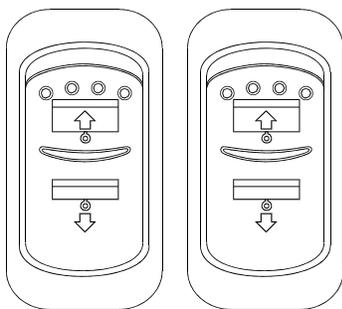
Windshield Upper Section De-icing



06259

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

Left and Right Sunshades

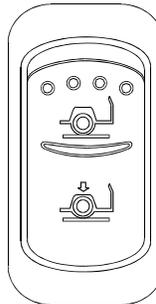


06353

Press and hold to lower or raise left or right sun shade.

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

Kneeling / Front Axle Hi-Buoy (Optional)



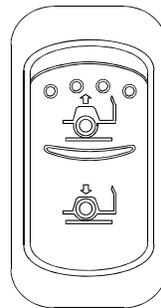
06250

Momentarily press the rocker switch rearward to lower the front end of the coach 4 inches (100 mm), and forward to return the coach to normal driving height. Refer to "Other Features" chapter for more information.

Press and hold the rocker switch forward to raise the front end of the coach 4 inches (100 mm).

Release the rocker switch to return the coach to the normal driving height.

Kneeling / Full Hi-Buoy (Optional)



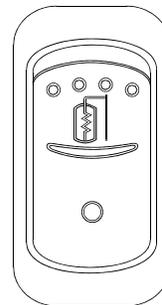
06251

Momentarily press the rocker switch rearward to lower the front end of the coach 4 inches (100mm), and forward to return the coach to normal driving height. Refer to "Other Features" chapter.

Press down and hold rocker switch forward to raise the complete suspension of the coach 4 inches (100 mm).

Release the rocker switch to return the coach to the normal driving height.

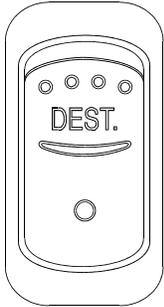
Outside Mirror Heat (Optional)



06261

Press the rocker switch to clear fog, frost or thin ice from outside mirrors.

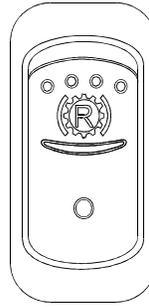
Destination Sign (Optional)



06261

Press the rocker switch to illuminate the destination sign.

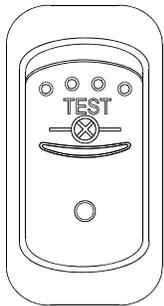
Transmission Output Retarder (Optional)



06252

Press rocker switch to activate the transmission retarder. Refer to "Transmission Output Retarder" in this chapter.

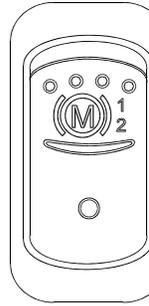
Telltale Light Test



06263

Press this switch while ignition is in the ON position to illuminate the telltale light cluster. Perform this test to verify indicator light functionality. Telltale lights will turn off automatically after about three seconds.

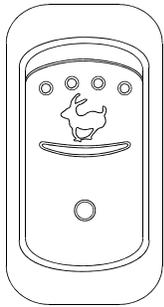
JACOBS Engine Brake (Optional)



06253

Press this switch to the first position to actuate the system to 2/3 engine brake and press to the second position for full application of engine brake. Refer to "Other Features" chapter.

Fast Idle



06264

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 normal idle before driving or when stopping engine.

Caution: Even if normally the engine will return to normal idle and remain there if the parking brake is applied and/or transmission is placed in neutral (N), it is safer to first press down the rocker switch to run the engine at normal idle before engaging the transmission.

Caution: Return the engine to normal idle before shutting the engine OFF.

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

Note: Engine brake is only activated when accelerator pedal is released and the engine speed is higher than 750 rev/minutes. Stoplights turn ON when the engine brake is used.

Engine Stop Override



06265

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

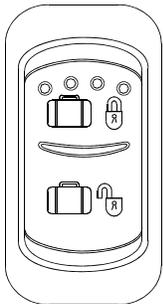
Caution: Use sparingly and in order to move the vehicle to a safe parking place only. Excessive use can cause severe engine damage.

CONTROLS AND INSTRUMENTS

DDEC Diagnostic Request

With the engine at idle or *OFF* and with the ignition switch in the *ON* position, press and release the Engine Stop Override rocker switch. Active codes will be flashed on the “Stop Engine” and inactive codes on the “Check Engine” telltale lights alternately. The first digit of the diagnostic code is determined by the number of flashes before a short pause. The second number of the diagnostic code is then flashed in the same manner. As an example, code “25” (everything O.K.) consists of two flashes, followed by a short pause, then five flashes. Refer to the “Technical Information” chapter under “DDEC IV Diagnostic Codes”.

Central Locking System

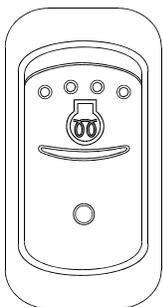


06266

This optional system enables locking baggage bays and engine curb side door by pressing the switch forward. To unlock, press the switch rearward.

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

Coolant Heater Switch



06267

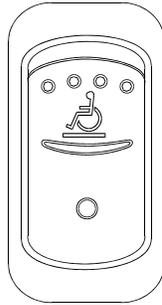
This switch is operational only when the ignition switch is in the *ON* position.

When activated, the heater timer is bypassed and remains activated as long as the ignition switch is in the *ON* position.

The purpose is to provide additional heat from the coolant heater, thereby supplementing the central heating system when required.

The coolant heater will turn *ON* or *OFF* automatically depending on coolant temperature.

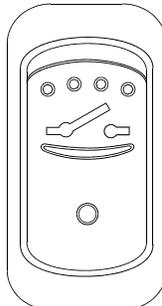
Wheelchair Lift (Optional)



06268

Activate the optional wheelchair lift electrical circuit by pressing down on the rocker switch. Refer to “Other Features” for instructions on operating the wheelchair lift.

Safety Switch



06269

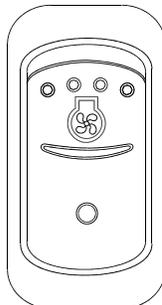
Both the 12 volt and 24 volt electrical systems are activated by this switch. A telltale light on the dashboard and a LED on the switch illuminate when the switch is depressed and the circuits are closed.

This switch is bypassed when the engine is running. When the engine is not running, the safety switch cuts off all electrical components from the batteries, except for the battery equalizers

and monitor, the transmission electronic control unit (ECU) memory, vehicle interface module (VIM), the coolant heater and optional refrigerator power supply.

Caution: When parking the coach overnight or for an extended period of time, open the electrical circuits using the safety switch.

Radiator Fan Override (Optional)

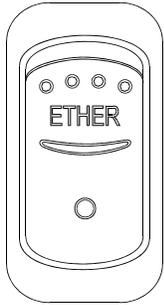


06236

Depressing the switch overrides the radiator fan's thermostatic switch, keeping the fan continuously on. This feature is useful when the fan switches on and off repeatedly, such as when driving up a long grade or when driving in very hot weather.

Caution: Do not use this feature unnecessarily as it will shorten fan life, reduce available horsepower and increase noise and fuel consumption.

Ether Start Control (Optional)

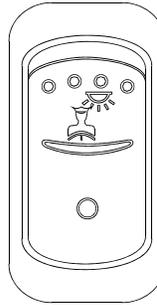


06237

Activates the engine cold starting aid. Refer to "Starting and Stopping Procedures" chapter.

Caution: Excessive use may result in severe engine damage.

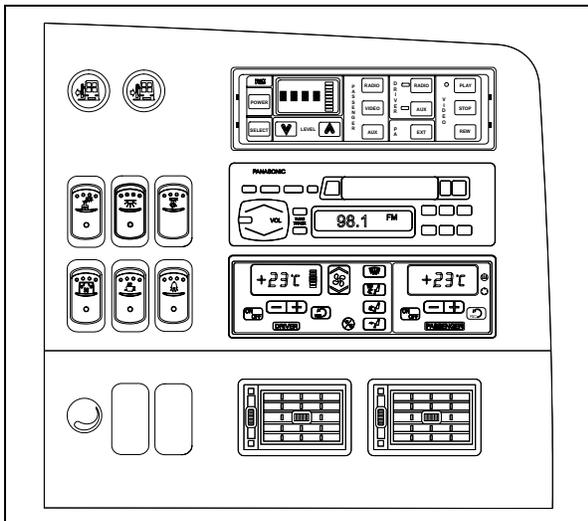
Driver's Area Lighting



06244

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

R.H. DASHBOARD PANEL

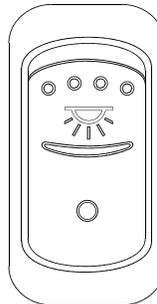


R.H. DASHBOARD PANEL

06445

Controls for passenger comfort and entertainment are grouped on this panel. The HVAC control module as well as the cluster dimmer switch, miscellaneous control switches and air vents are therefore located on the R.H. dashboard panel.

Interior Lighting

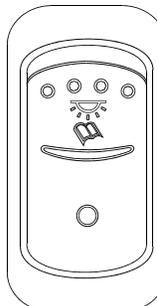


06239

Press this rocker switch to the first position to illuminate the aisle fluorescent lighting. Press down the second position to illuminate the in-station fluorescent lights.

Caution: To avoid running down the batteries when the engine is off, turn off the lights or connect the optional battery charger to a 110 - 120 volt AC power supply.

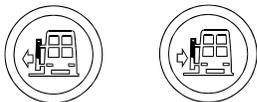
Reading Lights



06240

This switch powers the reading light circuit enabling passengers to operate their personal reading lights.

Door Operating Buttons



06313

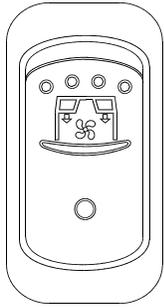
Press and hold the red button to open the door and the green button to close the door.

Releasing the button at any time will immediately stop door movement.

Warning: The door mechanism has no automatic safety protection to avoid injury to bystanders. The driver is responsible for the safe operation of the door.

CONTROLS AND INSTRUMENTS

Passenger Overhead Air Registers

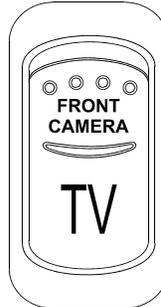


06245

Press the switch to the first position to set the fans to low speed. Press the switch to the second position to set the fans to high speed.

If equipped with the optional air conditioning in the overhead compartments, activating the fans also engages the dedicated A/C compressor.

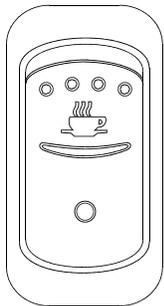
Front Camera (Optional)



06446

Press this switch to turn ON the forward looking camera and display the road ahead on the passenger TV monitors. When the front camera is not enabled, the TV circuit reverts to the VCR output.

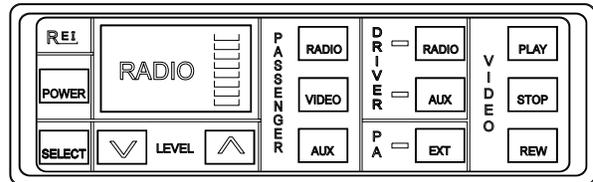
Galley



06241

This switch activates the optional galley's electrical circuit.

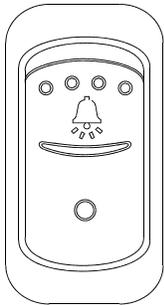
CONTROL HEAD



23070

The control head enables the driver to independently control audio entertainment and volume level in the passenger and driver's areas. The video cassette player, the P.A. system and auxiliary systems, such as a DVD player are also controlled by the control head panel.

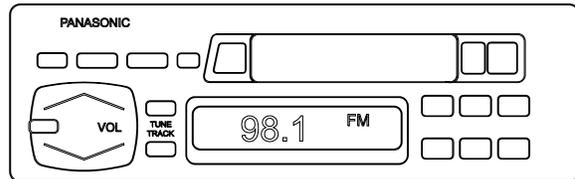
Stop / Service Chime (Optional)



06243

Press this switch to enable the stop / service chime. Even when the chime circuit is not enabled, the buttons in the overhead panels will illuminate if depressed by the passengers.

RADIO



23178

Due to the availability of several radio brands, refer to the manufacturers operating instructions.

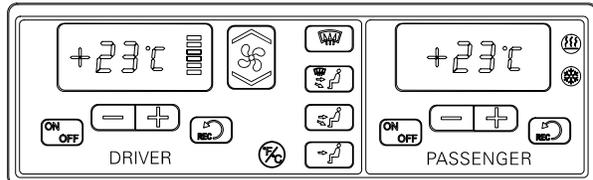
Brightness Control



06249

Adjusts the brightness of the dashboard instruments and switches.

HVAC CONTROL UNIT



22148

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 passengers' area.

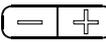
Fresh air is fed in each area and has a separate return air and discharge air duct.

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

To prevent battery run-down, the central 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 and passenger heating, ventilation and air conditioning controls are located on this panel. To operate, the vehicle's engine must be running.

The driver's and the passengers' units may be turned ON by pressing  or  or  buttons.

All parameters set before turning the system OFF will be kept in memory for the next power ON.

The HVAC module performs a self diagnosis every time it is turned ON. Codes are shown on displays or flashed on control buttons. Refer to "Maintenance Manual" for more information on the diagnostic codes.

Heating Mode Indicator



22135

This red LED illuminates when system is heating.

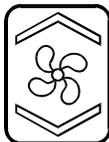
Cooling Mode Indicator



22134

This green LED illuminates when the system is cooling (when the compressor clutch is engaged).

Fan Speed



22135

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

Temperature Set Button



22132

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

These buttons determine the heating and cooling set points.

To increase the temperature, press on the "+" sign, to decrease the temperature, press on the "-" sign. Temperature range is between 55°F and 85°F (13°C to 29°C). On the driver's side only, asking for a temperature set point above 85°F (28°C) will keep the coolant valve open and "FUL" will be displayed. Passengers' temperature range is limited to 85°F (29°C). Temperature increments are 1°F or 1°C depending on units displayed.

In case of interior temperature sender unit failure, the coolant valve will remain open and three lines "---" will be displayed.

Warning: Warm temperatures may cause drowsiness and affect alertness while driving. Keep temperature comfortable but not too high.

Recirculate



22138

Closes or opens the fresh air damper.

A red LED in the top right corner of the button illuminates when passengers' section air is recirculated. Use for faster passengers' section heating.

This feature is automatically cancelled when defogging is activated.

Windshield Defogger



22139

The dashboard damper sends air only to the lower windshield when activated. The footwell damper is closed also.

A red LED in the top right corner of the button illuminates when activated.

Upon pressing this button, the fan is turned on at maximum speed, the fresh air damper opens completely (REC off) and the temperature is set to maximum if the temperature set point has not yet been attained once.

All Vents Open



22140

The dashboard damper opens halfway, sending air to the windshield and panel vents.

The footwell damper is also fully open.

A red LED in the top right corner of the button illuminates when activated.

CONTROLS AND INSTRUMENTS

Panel and Footwell



The dashboard damper sends air to the panel vents and footwell.

A red LED in the top right corner of the button illuminates when activated.

Panel



Air is sent to panel registers. The foot damper is closed.

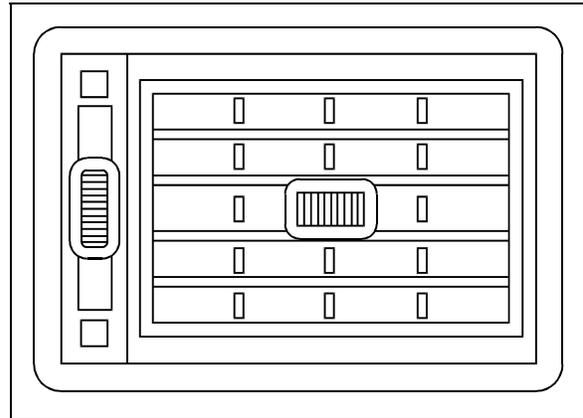
A red LED in the top right corner of the button illuminates when activated.

Temperature Degree Selector



Toggles between Fahrenheit and Celsius units. To operate, the driver's section must be on.

AIR REGISTERS

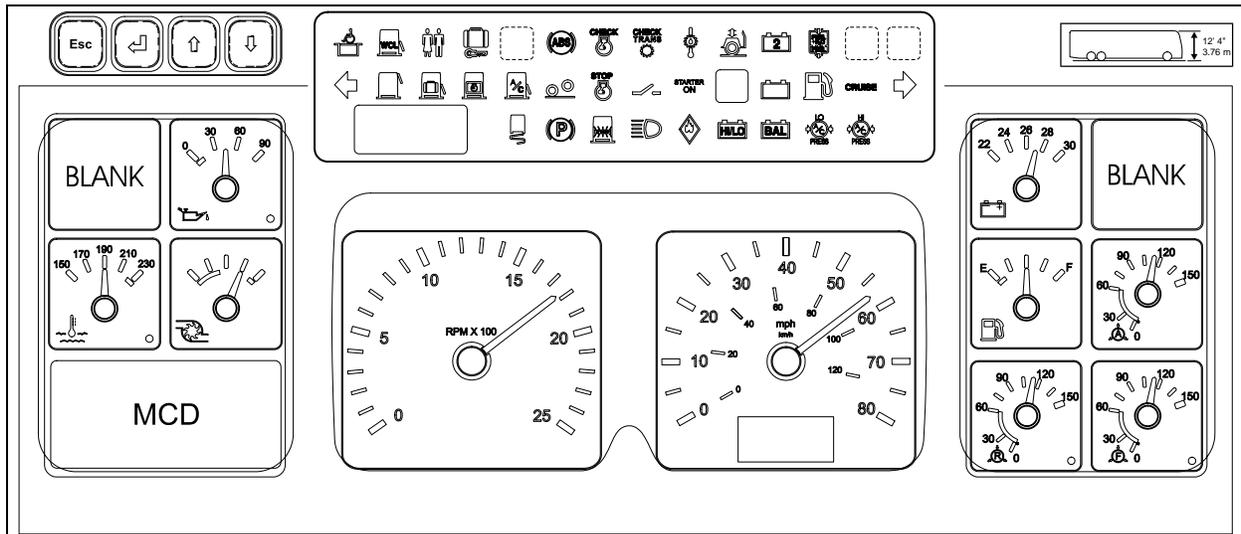


AIR REGISTER

22147

Three adjustable driver air registers in the dashboard and one near the door feed air to the driver's compartment. Use the HVAC control panel to set air temperature and fan speed.

CLUSTER

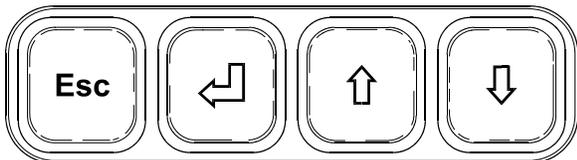


CLUSTER

06379

The cluster incorporates the Message Center Display, the Telltale Panel, the Gauges and Vehicle Clearance Information.

MESSAGE CENTER DISPLAY (MCD)



06399

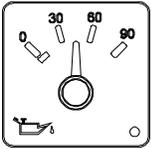
This standard feature gathers, stores and displays important information about the

vehicle's operation on a display screen on the lower left portion of the cluster. Refer to Message Center Display in Other Features chapter for a description of how to set up and operate the Message Center Display.

GAUGES

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

Engine Oil Pressure



06229

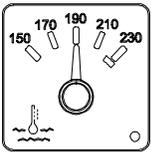
Indicates engine oil pressure. The normal reading should be between 50 and 70 psi (345 - 480 kPa) at 55 mph (90 km/h).

A low oil pressure indicator LED (bottom right corner of gauge) illuminates when the ECM decides oil pressure is too low. In such a case, the ECM will start to power down the engine until finally shutting it off as explained under “STOP Engine” telltale light, in this chapter.

An audible alert signal also informs the driver of low oil pressure. Refer to Safety Features and Equipment chapter for table of audible alerts.

Caution: Loss of oil pressure may cause severe engine damage. If low oil pressure LED illuminates, park the vehicle safely and stop the engine immediately. Request service assistance.

Engine Coolant Temperature



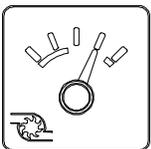
06231

Indicates the operating temperature of the engine coolant. The normal reading should be between 190°F and 222°F (88°C to 106°C).

A high coolant temperature indicator LED (bottom right corner of gauge) illuminates when the coolant temperature rises above 223°F (106°C). An audible alert signal also informs the driver of this condition.

The engine protection system will start power down. Refer to Safety Features and Equipment chapter for table of audible alerts.

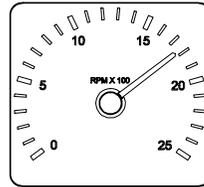
Turbo Boost Pressure



06230

Indicates turbo boost pressure in psi. Reading depends on engine rpm and load conditions.

Tachometer

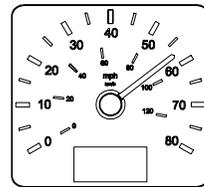


06221

Indicates the operating speed of the engine in hundreds of revolutions per minute (rpm x 100). The tachometer serves as a guide for gear shifting and

helps to prevent engine over-speeding when driving downhill with the JACOBS engine brake operating. The maximum allowed engine speed is 2,450 rpm.

Speedometer

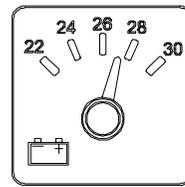


06222

Indicates the vehicle speed in miles per hour (mph) and kilometers per hour (km/h).

The digital odometer records the distance traveled in miles or in kilometers (units are driver selectable).

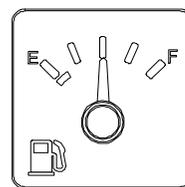
Voltmeter (24-Volt System)



06224

Indicates the condition of the 24-volt electrical system. With the engine running, the normal reading should be between 26.5 and 28.0 volts.

Fuel Level



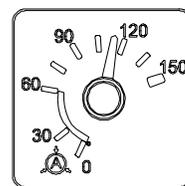
06225

Indicates the amount of fuel remaining in the fuel tank.

A telltale light illuminates when about 12 US gallons (45 liters) of fuel remain in the fuel tank.

Caution: Operating the vehicle when the reading is below 1/8 full is not recommended.

Accessories Air Pressure

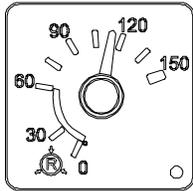


06226

Indicates the accessories air system pressure. The normal operating pressure is from 95 to 125 psi (655 to 860 kPa).

CONTROLS AND INSTRUMENTS

Primary System Air Pressure (Rear)



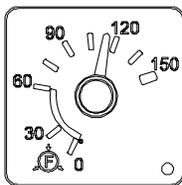
06228

Indicates the primary air system pressure. The normal operating pressure is from 95 to 125 psi (655 to 860 kPa).

A low air pressure indicator LED (bottom right corner of gauge) illuminates when the primary air system pressure drops below 66 psi (455 kPa). An audible alert signal also informs the driver of low air pressure. Refer to Safety Features and Equipment chapter for table of audible alerts. If the air pressure drops below 40 psi (276 kPa), the emergency brake applies at full capacity.

Warning: Do not drive the coach when air pressure is low.

Secondary System Air Pressure (Front)



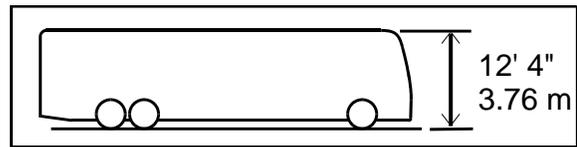
06227

Indicates the secondary air system pressure. The normal operating pressure is from 95 to 125 psi (655 to 860 kPa).

A low air pressure indicator LED (bottom right corner of gauge) illuminates when the secondary air system pressure drops below 66 psi (455 kPa). An audible alert signal also informs the driver of low air pressure. Refer to Safety Features and Equipment chapter for table of audible alerts. If the air pressure drops below 40 psi (276 kPa), the emergency brake applies at full capacity.

Warning: Do not drive the coach when air pressure is low.

VEHICLE CLEARANCE INFORMATION

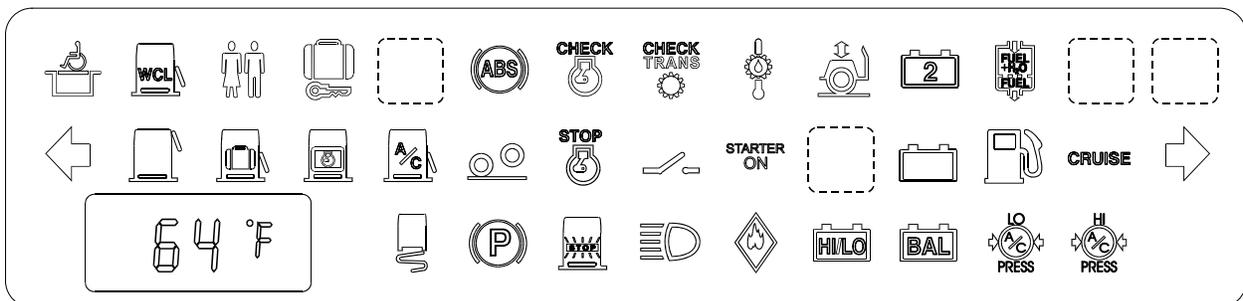


06447

Safe vehicle clearance height is 12'4" (3.76 m).

Caution: vehicle clearance is higher when the ventilation hatch is open, Hi-Buoy is selected or if additional equipment is installed on the roof.

TELLTALE PANEL



TELLTALE PANEL

06444

Some telltale lights described bellow appear on the telltale panel only if the corresponding optional equipment is installed on the vehicle.

Wheelchair Lift Enabled



06295

Illuminates when the wheelchair lift is enabled.

Wheelchair Lift Door Ajar



06299

Illuminates when the wheelchair lift compartment door and/or the wheelchair access door is open.

The parking brake is activated when this door is open. Refer to Other Features chapter.

Warning: Opening the door at a speed under 5 mph (8 km/h) will activate the parking brake and sound an audible alert.

Lavatory Door Locked



06375

Illuminates when the lavatory door is locked

Baggage Bay Unlocked



06387

Illuminates when one or more bays are unlocked.

Antilock Brake System



06272

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

Check Engine



06281

Illuminates when the ignition switch is ON as a light bulb check. The light should turn OFF after five seconds. If the indicator remains

ON after five seconds or comes ON sometime after starting the engine, the Detroit Diesel Electronic Control (DDEC) system has detected a minor problem.

The indicator light will remain ON until the malfunction has been corrected.

A diagnostic code will be stored in the memory and the indicator can be used to identify the problem. Refer to the "Technical Information" chapter under "DDEC IV Diagnostic Codes".

Check Transmission



06282

Illuminates when the ignition is switched ON. The indicator light should go out once the engine starts.

When the "CHECK TRANS" indicator is illuminated and the shift selector emits short beeps for 8 seconds, the electronic control unit (ECU) is restricting transmission shifting because special or abnormal conditions are detected. The control pad display will be blank.

If this happens, drive the coach to the next available service center to receive assistance. The ECU will not respond to shift selector requests since operating limitations are being placed on the transmission (i.e. upshifts and downshifts may be restricted). Direction changes and shifts to and from neutral (N) will not occur.

Any time the CHECK TRANS telltale light illuminates, the ECU will register a diagnostic code. It may be identified on the display or by using a diagnostic tool. Refer to "Technical Information" chapter.

Note: The CHECK TRANS indicator may also illuminate when starting the engine in extremely cold weather. Refer to "Starting and Stopping Procedures".

Transmission fluid Temperature



06292

Illuminates when the transmission fluid temperature is too high. Disengage the retarder to allow the oil temperature to cool down.

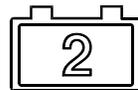
Kneeling / Hi-Buoy Active



06448

Illuminates when Kneeling or Hi-Buoy is active. An audible alert also informs the driver during operation. Refer to Safety Features and Equipment chapter.

Top Alternator



06276

Illuminates when the upper alternator is not charging.

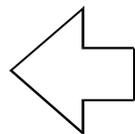
Fuel Filter/Water Separator



06291

Illuminates when accumulated water in the optional fuel filter/water separator needs to be drained. Refer to Care and Maintenance chapter.

Left Turn Signal



06290

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

CONTROLS AND INSTRUMENTS

Emergency Window Open



06287

Illuminates when an emergency window is open or unlocked.

Baggage Bay Door Ajar



06306

Illuminates when one or more baggage bay doors are ajar.

Engine Door Ajar



06308

Illuminates when either the side or rear engine door is ajar.

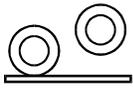
HVAC Compartment Door Ajar



06304

Illuminates when either the condenser door or the evaporator door is ajar.

Retracted Tag Axle



06271

Illuminates when the tag axle is retracted. When the tag axle is retracted, an alarm will sound to warn the driver. The control valve is located on the L.H. lateral console.

STOP Engine



06309

Illuminates when the ignition switch is ON as a light bulb and DDEC system check. The indicator should go OFF after five seconds.

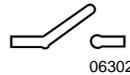
If the indicator remains illuminated after five seconds or comes ON sometime after starting the engine, the DDEC system has detected a major problem. Immediately park the coach in a safe place and stop the engine.

When a problem is detected, the engine power will automatically begin to decrease gradually, followed by full shutdown after 30 seconds.

The engine emergency shutdown may be bypassed by using the "Engine Stop Override" switch on the L.H. lower control panel.

Note: Once the engine is stopped, it cannot be restarted until the problem has been corrected. A diagnostic code will be stored in memory. The STOP engine indicator can be used to identify the problem. Refer to Technical Information chapter under "DDEC IV Diagnostic Codes".

Safety Switch



06302

Illuminates when the 12 volt and 24 volt electrical systems are activated. Use the safety switch to activate or deactivate the circuits.

Starter ON

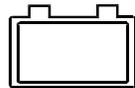


06380

Illuminates when the engine starter is ON.

Warning: If the "STARTER ON" Indicator light remains illuminated even after releasing the ignition switch, Stop the engine immediately and set the battery master switch (ignition key) to the OFF position. Have the starter checked immediately.

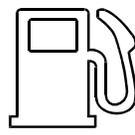
Bottom Alternator



06371

Illuminates when the lower alternator is not charging.

Fuel Level Low



06286

Illuminates when approximately 12 US gallons (45 liters) of fuel remains in the tank. After the light comes ON, the remaining fuel will provide no more than 60 miles (100 km) of travel. Do not exceed this distance.

Note: Refuel as soon as possible.

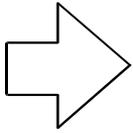
Cruise Control Enabled



06284

Illuminates when cruise control is enabled.

Right Turn Signal



06289

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

Freezing Conditions



06273

Flashes for about 10 seconds every 15 minutes when the outside temperature is in the range between 2°C and 1°C (35°F to 34°F), when the road is most slippery.

An audible alert will sound when these conditions arise. Refer to Safety Features and Equipment chapter.

Emergency/Parking Brake



06303

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.

Stoptlights ON



06305

Illuminates when rear stoptlights illuminate. This occurs when either cruise control DECEL switch, service brake, parking brake, engine retarder or transmission retarder is applied.

High Beam ON



06300

Illuminates when high beams are selected. High and low beams are selected by operating the multi-function lever. Refer to Steering Column Controls heading in this chapter.

Fire Detected



06288

Illuminates if a fire is detected in the engine compartment. An audible alert also informs the driver when a fire is detected. 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: For extinguisher's location, refer to Safety Features and Equipment chapter.

Battery Voltage Incorrect



06275

Illuminates when the battery voltage exceeds 30 volts or drops below 24 volts.

Note: The high/low battery voltage indicator will illuminate for a few seconds after the engine is started because of the voltage drop when the starter is engaged.

Battery Voltage Not Equal



06274

Illuminates when the battery voltage is not equalized.

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 in the main power compartment.

A/C System Pressure Low



06298

Illuminates when 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 telltale light to come ON.

Refer to the Maintenance Manual for information on control panel troubleshooting mode.

A/C System Pressure High



06296

Illuminates when 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.

CONTROLS AND INSTRUMENTS

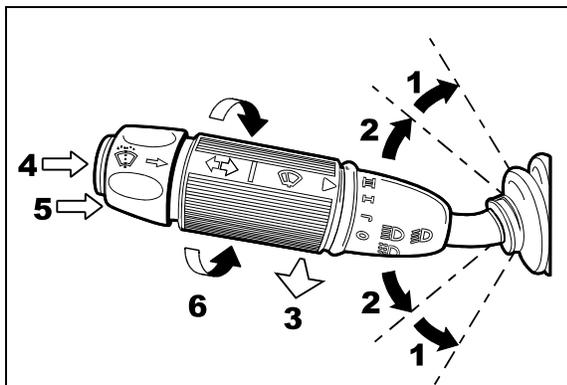
Note : When outside temperature is high, it is possible and normal for that telltale light to come ON.

Refer to the Maintenance Manual for information on control panel troubleshooting mode.

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 rearward. Pulling the lever rearward while the lights are OFF will flash the headlights.

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: Before using the windshield washers in cold weather, heat the windshield with the defroster to prevent icing and reduced visibility.

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

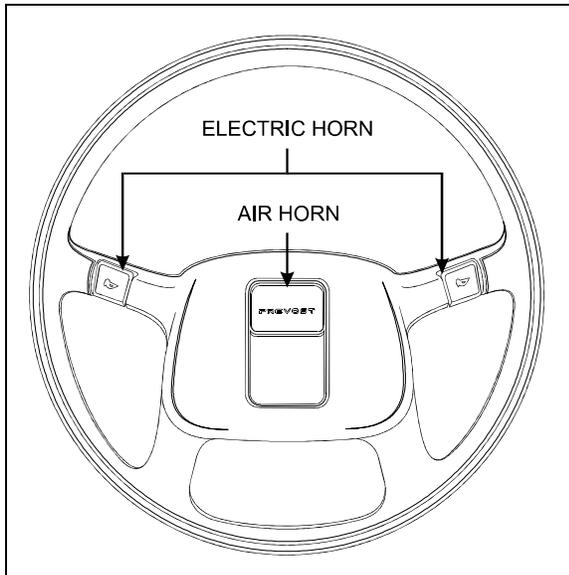
Windshield Wipers (6)

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: To avoid scratching the windshield, do not operate the wipers when the windshield is dry. To avoid damaging the wiper motor, loosen wiper blades that may be frozen to the windshield before operating the wipers.

ELECTRIC HORN

The electric horn buttons are on the steering wheel spokes. Use only the electric horn in urban areas.



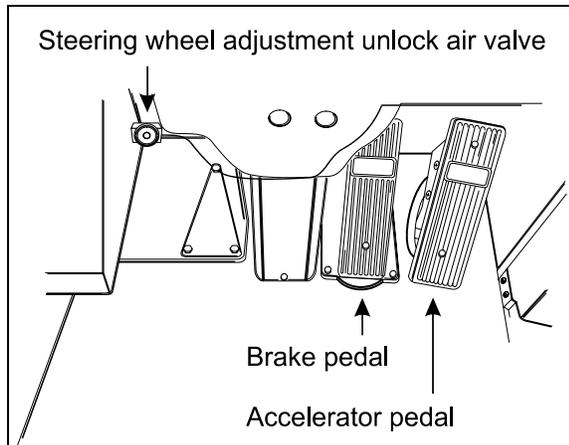
STEERING WHEEL

14029

AIR HORN

The air horn button is located on the center of the steering wheel. Use this horn only on the highway.

FOOT-OPERATED CONTROLS



FOOT OPERATED CONTROLS

00023A

BRAKE PEDAL

The coach is equipped with a dual braking system. The front brakes operate from a different air source than the drive and tag axle brakes.

The dual braking system becomes a modulated emergency system if a pressure drop occurs in the primary brake system.

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 Antilock 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 an audible alert will sound when the air pressure in either the primary or secondary circuits drops below 66 psi (455 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 chapter.

Warning: Immediately report any brake system problem to the nearest Prevost or Prevost-approved service center, or to your company.

Warning: 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 entrance door is open.

Caution: Do not let the engine operate above 2,450 RPM.

STEERING WHEEL ADJUSTMENT UNLOCK AIR VALVE

Push on the valve button with the left foot to unlock the steering wheel for tilt and telescopic adjustment.

Warning: Do not adjust the steering wheel while the vehicle is moving. Loss of control could result. Park the vehicle safely and apply parking brake before adjusting the steering wheel.

CONTROLS AND INSTRUMENTS

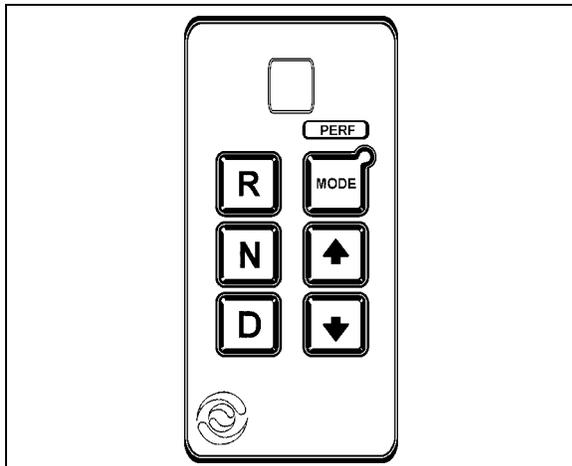
ALLISON TRANSMISSION

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.

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 electronic control system 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 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 to 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 ECU.



WORLD TRANSMISSION CONTROL PAD

07025

RANGE SELECTION – PUSH BUTTON SHIFTER

The push button shifter is used by the operator to select Neutral (N), Reverse (R) or a range of forward gears (D). When the forward range has

been selected, the transmission starts in the lowest gear and, as conditions permit, automatically upshifts until the highest gear is selected.

The digital display indicates the selected gear of transmission operation.

The function of each button is as follows:

- Select REVERSE gear by pressing "R".
- Select NEUTRAL by pressing "N". Note the raised edge around the "N" button so the driver can orient his hand to the push buttons by touch, without looking at the display. It is not necessary to press this button prior to starting the vehicle.
- Select DRIVE range by pressing "D". The highest forward gear will appear on the display and the transmission will shift to the starting gear (not shown on the display).

The "▲" and "▼" buttons are used to shift to a 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.

FUNCTIONS OF THE "MODE" BUTTON

This button is used to invoke a special function (mode) that has been programmed into the ECU. Both modes are equivalent from the first to the fourth gear as the transmission upshifts at around 2000 rpm.

The default "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 "PERF" (performance) mode keeps upshifts at 2000 rpm in fifth and sixth gears. This makes for better performance than the economy mode but with a higher fuel consumption. It is recommended this mode be selected while driving up or down grades. The mode status will be indicated on the digital display by a red LED illuminating in the upper right corner of the MODE button when selected.

Oil Level Display Mode (optional)

Select oil level display mode by pressing simultaneously on the "▲" and "▼" keys. A first press will indicate the transmission fluid level after a two-minute wait if the following conditions are met:

- The vehicle is not moving;
- The engine is in normal idle;
- The transmission has reached its normal operating temperature;
- Transmission is in NEUTRAL;
- The sender unit is functional.

A code will be displayed one digit at a time. Refer to Technical Information chapter under Oil Level Sensor Codes.

Diagnostic Display Mode

Pressing a second time on the "▲" and "▼" keys simultaneously will select the diagnostic display mode. Refer to the Technical Information chapter for more information about the WT diagnostic codes. To exit diagnostic display mode, press N button, or up and down arrow keys at the same time.

Reverse (R)

Press the R button to select reverse. Stop completely before shifting from forward to reverse or from reverse to forward. The reverse warning signal will be activated when this range is selected.

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. An audible alert will sound if the engine is stopped and the parking brake is not applied.*

Warning: *Always apply parking brake before leaving driver's seat.*

Caution: *Detroit 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 ECU (Electronic Control Unit) will command converter operation (disconnect lockup) and inhibit downshifts for a period of time or until normal wheel speed has been restored.

- 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.

CONTROLS AND INSTRUMENTS

Warning: Service brake 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 "JACOBS Engine Brake" and "Transmission Retarder" headings in "Technical Information" chapter for details regarding both systems. This procedure keeps service brake cool and ready for emergency stopping.

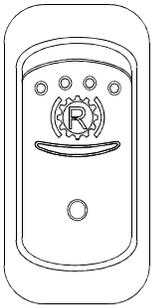
Caution: When descending in lower ranges, care must be taken that engine speed does not exceed 2,450 rpm.

TRANSMISSION OUTPUT RETARDER

The transmission output retarder is available only with the Allison transmission.

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

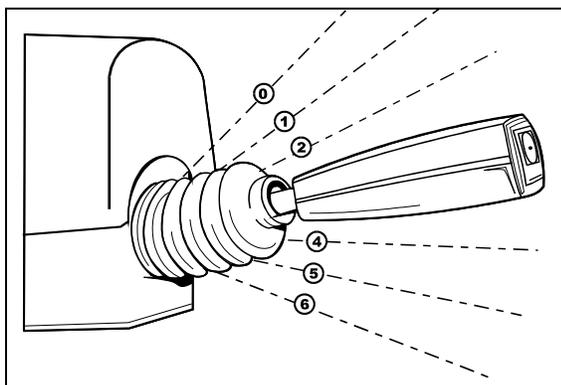
To use the transmission output retarder, it must be activated by pressing the appropriate rocker switch on the dashboard.



06252

Press down rocker switch to activate the optional transmission output retarder.

OPERATING THE RETARDER USING THE HAND LEVER



RETARDER HAND LEVER

07043

With the retarder activated (retarder switch depressed) and the accelerator pedal released, move the output retarder lever clockwise from the first to the sixth position. The efficiency for each position is as follows:

Position	Efficiency
Initial	0%
1st	16%
2nd	33%
3rd	49%
4th	71%
5th	89%
6th	100%

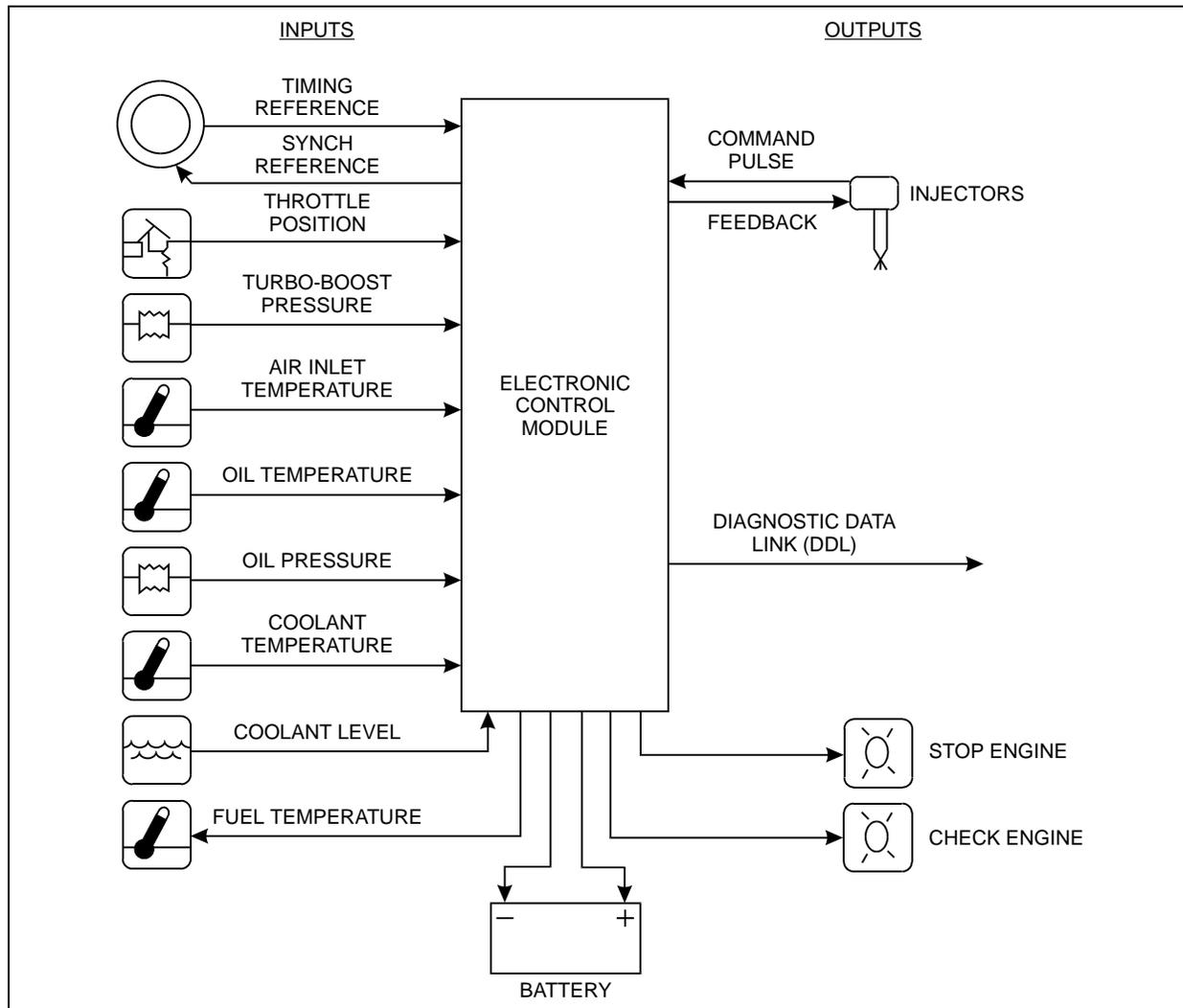
Note: The output retarder lever is located on the right side of the steering column.

OPERATING THE RETARDER USING THE BRAKE PEDAL

With the retarder activated (retarder switch depressed), the accelerator pedal released and the output retarder lever in the initial position (position 0), apply the brake pedal as if using the service brakes. The further the pedal is depressed, the more the output retarder is applied. Refer to "Other Features" chapter for more 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.

OTHER FEATURES



SCHEMATIC DIAGRAM OF DDEC IV SYSTEM

01092

DETROIT DIESEL ELECTRONIC CONTROL (DDEC) SYSTEM

DDEC is an advanced-technology electronic fuel injection and control system for Detroit Diesel engines. As an integral part of the engine, the DDEC system provides a number of performance features and driver benefits including improved fuel economy and performance, reduced cold smoke and reduced maintenance and repair costs. These advantages are obtained by optimizing control of the critical engine functions which affect fuel economy, engine reliability and the performance of the injectors.

Its major components include an Electronic Control Module (ECM), Electronic Unit Injectors (EUI), electronic throttle pedal and sensors. The ECM, which provides central processing and

control of the DDEC system, contains the following:

- A microprocessor that continuously monitors and analyzes the engine's performance using sensors during engine operation;
- Flash Random Access Memory (FRAM) that stores ECM runtime software, which contains engine control instructions;
- Electrically Erasable Programmable Read-Only Memory (EEPROM) that provides instructions for basic engine control functions such as rated speed and power, engine governing, cold start logic and diagnostics and an engine protection system.

The Electronic Unit Injectors (EUI) operates on a principle similar to the mechanical unit injector system. However, a solenoid operated control

OTHER FEATURES

valve performs the injection timing and metering functions which make injector timing much simpler and more precise.

DDEC provides the capability of quickly diagnosing system malfunctions with a self-diagnostic system. The self-diagnostic system monitors all engine sensors and electronic components and recognizes system faults and other engine-related problems by providing the technician with a diagnostic code. The DDEC system will illuminate the dashboard CHECK ENGINE and STOP ENGINE indicators which are integral parts of the electronic diagnostic system. These lights are designed to indicate a problem and transmit a coded signal to the technician to locate the defective component. To facilitate troubleshooting and obtain pertinent data logged in the ECM (Electronic Control Module) memory, a Diagnostic Data Reader (DDR) can be used (not supplied by manufacturer). Plug the DDR into the receptacle on the upper left wall in the driver's footwell. You can also momentarily depress the STOP ENGINE OVERRIDE switch on the left hand lower control panel (refer to Controls & Instruments chapter). Active and inactive codes will flash respectively the STOP ENGINE and the CHECK ENGINE indicators. Refer to Technical Information chapter under "DDEC IV Diagnostic Codes".

DEC IV ELECTRONIC CONTROL MODULE (ECM)

The simplest implementation of Data Hub does not require the addition of any hardware to the vehicle. Instead, basic Data Hub features built into the DDEC IV ECM are used. The ECM stores data such as miles, fuel used, idle time, PTO time, idle fuel, cruise time and cruise fuel on life-to-date, trip and daily basis. Daily recording is limited to a maximum of two days.

Selected parameters, such as oil pressure, are measured periodically under specified conditions. The measurements are analyzed over long time periods, which allows the system to detect degradation in performance and warn the user prior to component failure.

The average life span of up to ten components may be specified in terms of miles, fuel used, time, engine rpm and engine hours. The ECM tracks the specified factors and automatically alerts the user when the average component life span has been attained. An event log is also

stored which indicates the vehicle status (e.g., off, idle, in motion) at 15 minute intervals.

Data stored in the DDEC IV ECM is extracted by connecting a cable from a personal computer (PC) to the vehicle's diagnostic connector via an RP1202 adapter module. Data extraction takes about 20 seconds.

MESSAGE CENTER DISPLAY (MCD)

MCD is a standard dashboard mounted graphic device that displays and records operational data transmitted by the Detroit Diesel Electronic Controls (DDEC) and other electronically controlled components on the SAE J1708/1587 diagnostic data link.

The many functions of the MCD include vehicle operating status for the driver and diagnostics for the technician.

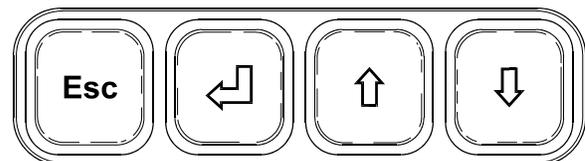
The MCD uses a dashboard integrated liquid crystal display. It provides automated intensity control of the display, based on the dashboard instrument panel lights for improved driver convenience.

Should an alert message be sent out by the ECM, the driver will be shown what is wrong via an error code. Symbols may be displayed on the screen when a condition occurs or as a reminder that a feature is enabled. These symbols include a bell when the reminder alarm is on, "PTO" when fast idle is activated or "CC" when cruise control is activated.

Note: When a condition requiring attention occurs, the screen relating to that condition will automatically replace the current display.

The MCD works with interactive menus in a series of cascading layers. The MCD allows access only to GAUGE MODE, FUEL ECONOMY and CLOCK/DIST menus when the vehicle is moving. Access to the remaining menus is granted when the vehicle is stopped.

The driver inputs commands and settings by using the keys on the MCD keypad.



06399

Use the up (↑) and down (↓) arrows to highlight a function or a setting. At any given level, small arrows may appear in the upper and lower right

corner of the display. This means that more information is available by scrolling up or down with the arrow keys.

To change the setting of a feature, press enter key (↵). The first value to set is highlighted. Set the correct value with the arrow keys. Press the enter key when the correct value is displayed. The next value to set is highlighted. In some cases, the enter key will reset compiled data. In that situation, the MCD will prompt you to press the enter key for 1 second to prevent accidental resetting.

To return to the previous level, press Esc key any time. In most cases, the MCD will return to the previous level once a setting has been chosen.

To return to the main menu from any submenu, press Esc key a few times.

GAUGE MODE

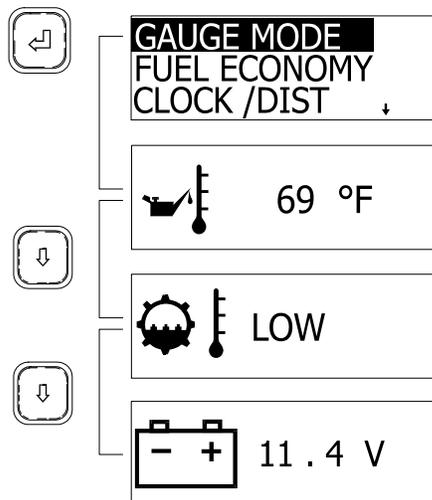
Transmission fluid temperature, engine oil temperature and battery voltage can be displayed in this mode.

To display:

1. Highlight GAUGE MODE;
2. Press enter key (↵);
3. Choose a gauge using the up (↑) or down (↓) arrow keys.

To exit gauge mode, press Esc key.

Note: When a condition requiring attention occurs, the screen relating to that condition will automatically replace the current display.



06398

FUEL ECONOMY MODE

Check average and instantaneous fuel consumption, as well as distance until empty.

To display:

1. Highlight FUEL ECONOMY
2. Press enter key (↵);
3. Toggle between average/instantaneous fuel consumption or leg fuel consumption using the up and down arrows;

To exit FUEL ECONOMY mode, press Esc key any time.

4. To reset average and instantaneous fuel consumption, press enter key. The MCD will prompt you to press enter key for one second to reset;

If you do not wish to reset the fuel data, press Esc to return to previous menu.

CLOCK / DIST. MODE

This mode gives access to the digital clock, the reminder alarm, two trip odometers and the average speed counter.

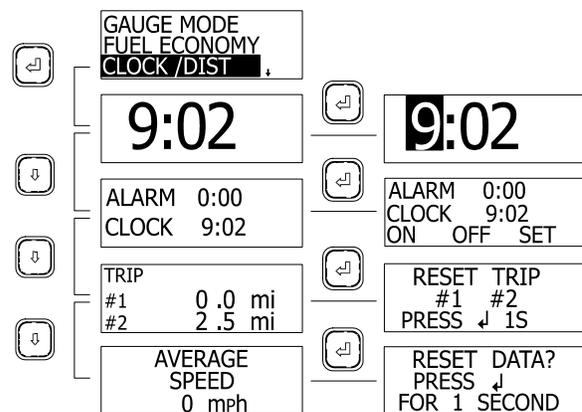
To display the digital clock:

1. Highlight CLOCK/DIST;
2. Press enter key (↵);

The digital clock appears;

3. Use up down arrows to display the alarm and clock display, the trip odometer display or the average speed counter display.

To exit CLOCK/DIST mode, press Esc key.



06388

Setting the Digital Clock

1. Display the clock;

OTHER FEATURES

2. Press the enter key (↵);

The first digit of the time is highlighted.

3. Set the correct value using the arrow keys;
4. Press enter key;

The next digit of the time is highlighted.

5. Set the correct time using the arrow keys and the enter key;

After pressing the enter key when the last digit is highlighted, the display reverts to clock mode.

Reminder Alarm

The alarm can be useful to remind the driver of a task to do at a given time.

To set the alarm:

1. Display the alarm and clock menu;
2. Press the enter key;
3. Using the arrow keys, highlight ON, to arm the alarm, OFF to disarm the alarm or SET to set the alarm time;
4. Press the enter key;

If you have chosen SET, set the time using the arrow keys and enter key.

To exit any menu and return to the previous menu, press Esc key.

A bell appears in the upper right corner on all MCD screens if the alarm is armed.

When armed, the alarm will sound at the set time even when the battery master switch is off.

To stop the alarm from sounding, press any key on the MCD keypad.

Trip Odometers

Two trip odometers are available for driver convenience.

To reset a trip odometer:

1. Display the trip odometers;
2. Press the enter key;
3. Using the arrow keys, highlight the trip odometer you wish to reset;
4. Press the enter key for 1 second.

To exit anytime, press Esc key.

Average Speed

The average speed display shows the average speed has been driven since the last reset.

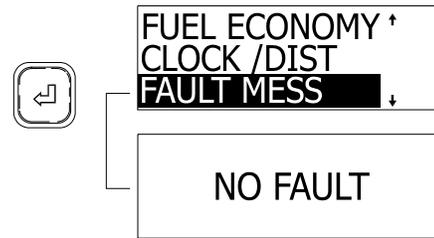
To reset:

1. Display the average speed;
2. Press the enter key;
3. When prompted, press the enter key for 1 second to reset data.

FAULT MESS MODE (Fault messages)

To display logged fault messages:

1. Highlight FAULT MESS
2. Press the enter key
3. Fault messages are displayed (if any).



06393

SET UP MODE

Set up mode allows the driver to customize the MCD. Set up mode allows setting the language, units used (Metric or Standard), clock format, display contrast, backlight and night display.

If the correct password is entered, default language, fleet fuel target and passwords can also be set.

To configure the MCD, highlight SET UP MODE using the arrow keys, then press the enter key.

Language Selection

If available, language may be selected. To select a language:

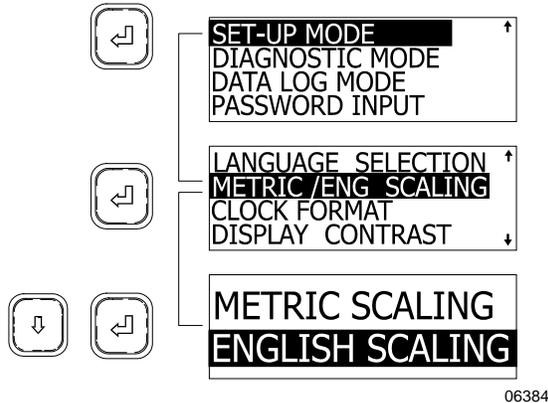
1. In SET UP mode, highlight LANGUAGE SELECTION using the arrow keys;
2. Press the enter key;
3. Highlight the desired language using the arrow keys;
4. Press enter key to confirm the language choice.

The MCD returns to SET UP mode.

Metric or Standard Units

1. In SET UP mode, highlight METRIC/ENG SCALING using the arrow keys;
2. Press the enter key;
3. Highlight the desired units using the arrow keys;
4. Press enter key to confirm.

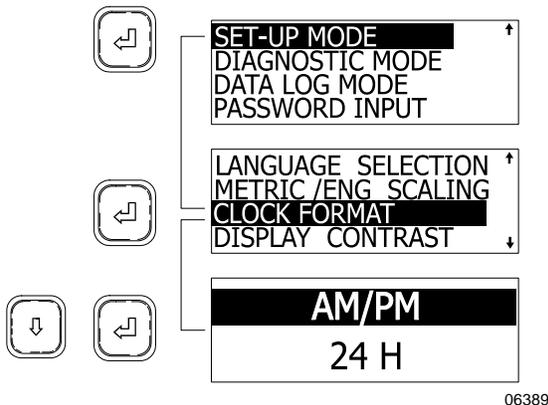
The MCD returns to SET UP mode.



Clock Format

1. In SET UP mode, highlight CLOCK FORMAT using the arrow keys;
2. Press the enter key;
3. Highlight the desired format (AM/PM or 24 H) using the arrow keys;
4. Press enter key to confirm.

The MCD returns to SET UP mode.

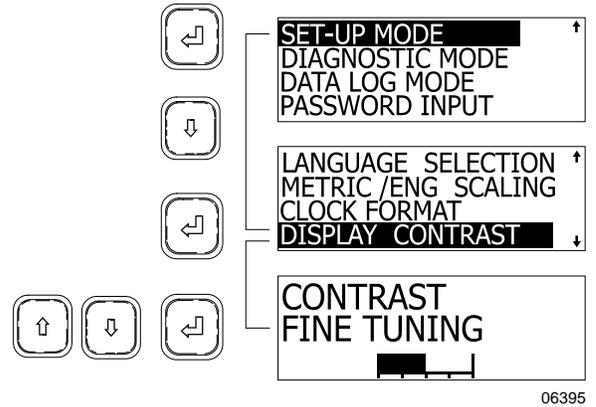


Setting Contrast

1. In SET UP mode, highlight DISPLAY CONTRAST using the arrow keys;
2. Press the enter key;

3. Using the arrow keys, set the desired contrast. A horizontal graphic shows state of contrast;
4. Press enter key to confirm.

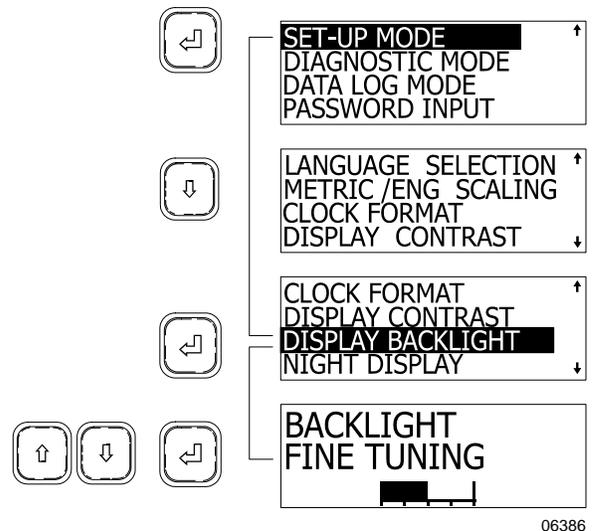
The MCD returns to SET UP mode.



Setting Backlight

1. In SET UP mode, highlight DISPLAY BACKLIGHT using the arrow keys;
2. Press the enter key;
3. Using the arrow keys, set the desired back lighting. A horizontal graphic shows state of lighting;
4. Press enter key to confirm.

The MCD returns to SET UP mode.



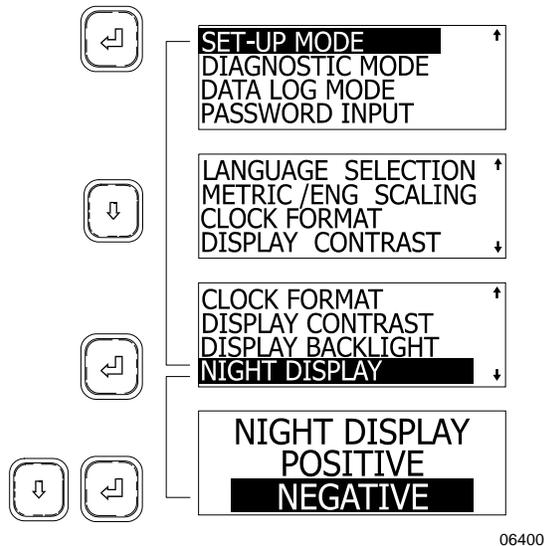
Setting Night Display

Night display, when activated, shows all displays in negative when the headlights are ON.

OTHER FEATURES

1. In SET-UP mode, highlight NIGHT DISPLAY using the arrow keys;
2. Press the enter key;
3. Highlight the desired display using the arrow keys;
4. Press enter key to confirm.

The MCD returns to SET UP mode.



Setting Default Language

This feature is enabled when the correct password is entered (see PASSWORD INPUT).

1. In SET UP mode, highlight DEFAULT LANGUAGE using the arrow keys;
2. Press the enter key;
3. Highlight the desired language using the arrow keys;
4. Press enter key to confirm.

The MCD returns to SET UP mode.

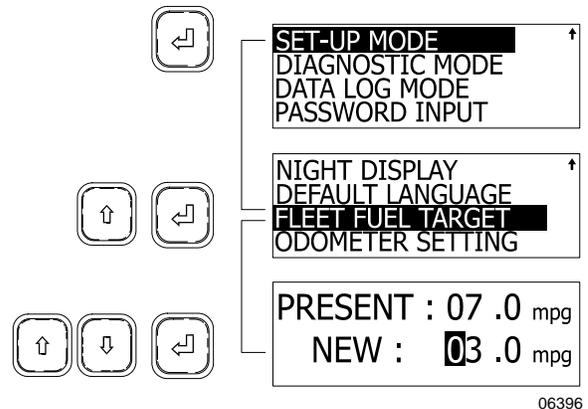
Setting Fleet Fuel Target

This feature is enabled when the correct password is entered (see PASSWORD INPUT).

1. In SET UP mode, highlight FLEET FUEL TARGET using the arrow keys;
2. Press the enter key;
3. Using the arrow keys set the highlighted digit;
4. Press enter key to confirm, the following digit is highlighted. Set as in step three;

5. When last digit is set, press the enter key to confirm new target.

The MCD returns to SET UP mode.



Setting the Odometer

This feature is disabled.

DIAGNOSTIC MODE

Diagnostic mode allows the driver to request diagnostics from the ECU's of components such as the engine, brake and other instruments. The driver can also perform a cluster self test and read data about the ECU's

Enter diagnostic mode by using the arrow keys to highlight DIAGNOSTIC MODE, then pressing the enter key to confirm.

ECU Diagnostic

To request a diagnostic:

1. Highlight ECU DIAGNOSTIC with the arrow keys;
2. Press the enter key to confirm.
3. Highlight the component to request a diagnostic using the arrow keys;
4. Press the enter key

After showing a fault message (if any) the MCD returns to ECU Diagnostic screen.

To request a general diagnostic:

1. Highlight GENERAL REQUEST using the arrow keys;
2. Press the enter key

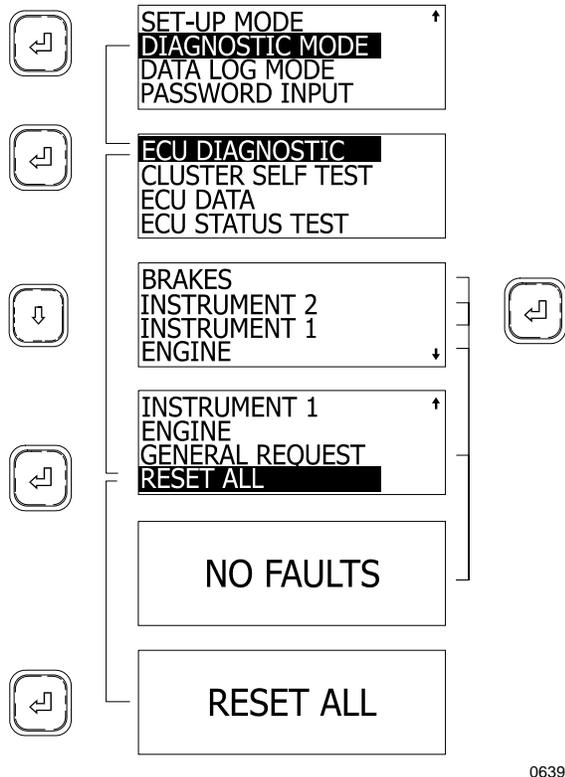
After showing a fault message (if any) the MCD returns to ECU Diagnostic screen.

To reset fault codes:

1. Highlight RESET ALL using the arrow keys;
 2. Press the enter key;
- The MCD displays RESET ALL.
3. Press enter key to confirm.

After resetting the fault codes, the MCD returns to ECU Diagnostic screen.

Exit ECU Diagnostic and return to Diagnostic Mode using Esc key.



06392

Cluster Self Test

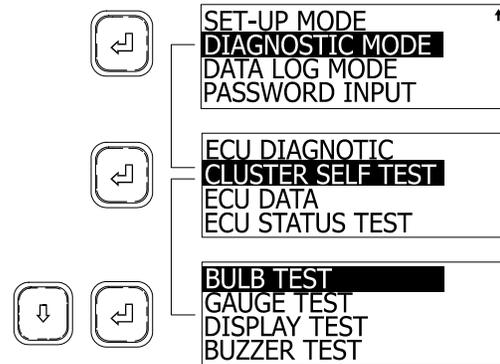
Tests cluster light bulbs, gauges, MCD display and buzzers.

To perform a self test:

1. In diagnostic mode, highlight CLUSTER SELF TEST using the arrow keys;
2. Press enter key to confirm;
3. Highlight the test to perform using the arrow keys;
4. Press enter key to confirm;

The test may normally take several seconds to perform. The MCD may explain the progression of the test as it runs. The display returns to cluster self test mode once finished.

Note: While in the cluster self test mode, the engine ECU data link is disconnected. Therefore, the gauges will not function until the cluster is out of the self test mode. To interrupt any test, cycle the ignition key off and on.



06378

BULB TEST

Turns ON all telltale lights and red warning LED's in the gauges which have them, for ten seconds.

GAUGE TEST

This test causes the pointers in the tachometer, speedometer, oil pressure, coolant temperature, fuel and turbo boost gauges to move from minimum scale to full scale and back, briefly stopping at mid-scale each way. This occurs three times. The air pressure and voltmeter gauges are excluded from the test.

DISPLAY TEST

To help identify defects in the graphic display, the display goes from dark to bright in about ten seconds.

BUZZER TEST

Sounds each of the buzzer signals for ten seconds each. The name of the buzzer is written on the display as the test runs.

ECU Data

This feature requests information from the available components. This information includes the component's SAE message identifier (MID), its software ID (SW ID) and hardware ID (HW ID) if available.

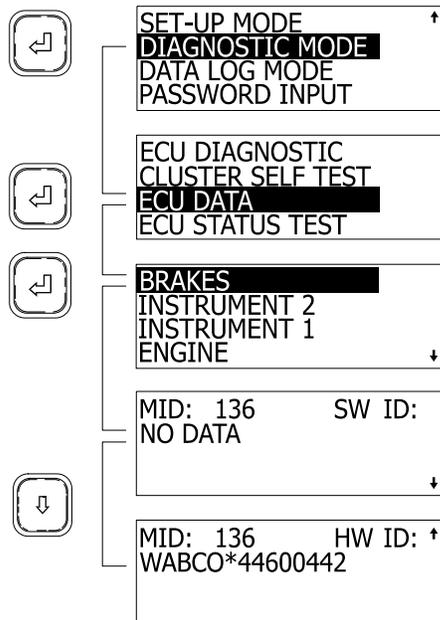
To access ECU Data:

1. When in DIAGNOSTIC MODE, highlight ECU DATA using the arrow keys;
2. Press enter key;

OTHER FEATURES

3. Highlight the desired component;
4. Press enter key.

The MCD displays the information on two screens. Toggle between screens using the arrow keys.



06391

ECU Status Test

This feature allows testing the response of vehicle systems. This can be useful when troubleshooting or checking the proper working order of senders and other components.

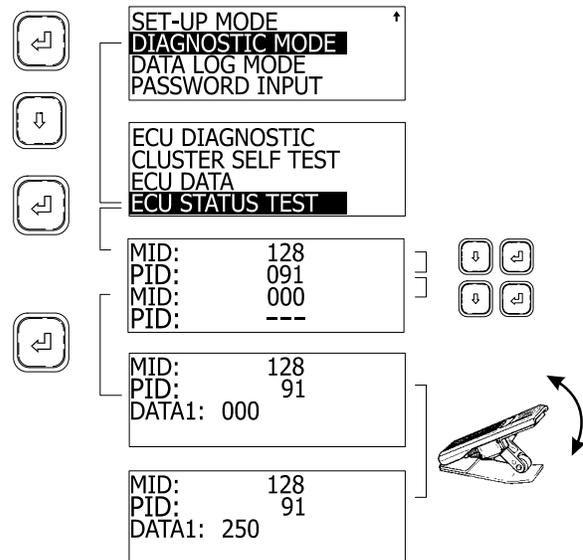
In ECU Status Test mode, the MCD will monitor the system and display the data on the screen. Up to two components can be monitored at once.

To perform a status test:

1. When in DIAGNOSTIC MODE, highlight ECU STATUS TEST using the arrow keys;
2. Press enter key;
3. Using the arrow and enter keys, enter a MID and PID (or PPID);
4. Press enter key;

The MCD now displays in real time the value of the component. The example below shows how changing the throttle position will be displayed on the MCD. That way one can verify if any identifiable sender unit is working properly or whether the link is OK.

5. Press Esc key to exit.



06420

In this example, a throttle pedal in good working order will send a linear and continuous (no jumps) signal to the ECU, appearing as DATA value on the MCD screen. Full pedal movement will display values from 000 (no throttle) to 250 (maximum throttle).

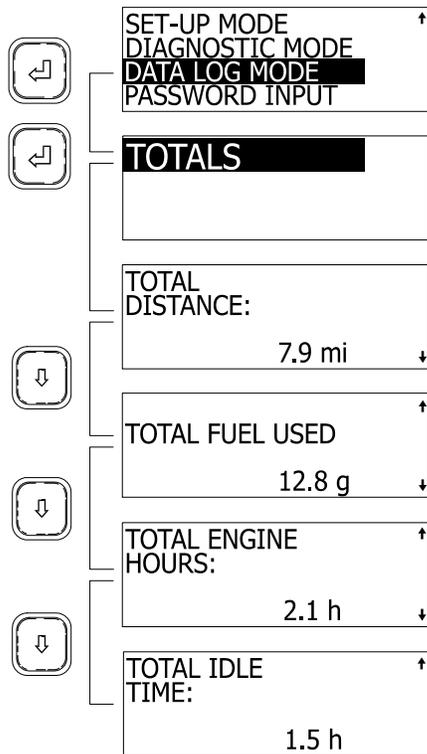
Note: The MCD can perform a status test on as many as two components simultaneously. To do so, when setting MID and PID codes, set a second (non zero) MID and PID code.

DATA LOG MODE

This feature shows total accumulated distance, fuel used engine hours and idle time.

1. To access data log:
 2. Highlight DATA LOG MODE using the arrow keys;
 3. Press enter key to confirm;
- The screen shows TOTALS highlighted.
4. Press enter key;
 5. View totals using the arrow keys.

Exit by pressing the Esc key.



06383

PASSWORDS

The MCD recognizes two passwords: a mechanic's password and an owner's password. The mechanic's password allows setting DEFAULT LANGUAGE, FLEET FUEL TARGET, performing a STATUS TEST and using the RESET ALL function. The owners password gives access to all the above and allows changing both passwords.

The mechanic's password is initially set to "0000".

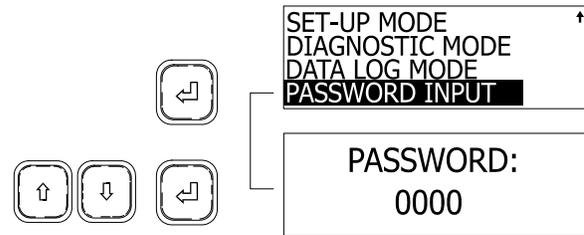
The owner's password is initially set to "1234".

Password Input

To enter either password and have access to restricted functions of the MCD:

1. Use the arrow keys to highlight PASSWORD INPUT;
2. Press enter key to confirm;
3. Use the arrow keys to set the first digit of the password;
4. Press enter to highlight the next digit;
5. Pressing enter key on last digit will confirm the password.

If the entered password is correct, the MCD will revert to the previous screen. Access to restricted screens is allowed.



06402

Changing passwords

To change any password, owner's password must be entered first.

To change passwords:

1. Using the arrow keys, highlight SET UP MODE;
2. Press enter key to confirm;
3. Using the arrow keys, highlight PASSWORD CONFIG;
4. Press enter key to confirm;
5. Using the arrow keys, select MECHANIC or OWNER;
6. Press enter key to confirm;
7. Set new password.

PRODRIVER™

PRODRIVER™ is an optional graphic device similar to MCD but with added features. A summary of data displays available from PRODRIVER™ include:

- Instantaneous and average fuel consumption rate;
- Trip time, miles driven, fuel used, , average speed;
- Driving time, percentage, miles, fuel used, fuel consumption rate;
- Idle time, percentage and fuel used;
- Cruise time, percentage, miles cruised, fuel used, fuel consumption rate;
- Top gear time, percentage, miles driven, fuel used, fuel consumption rate;
- Overspeed time and percentage for two speed thresholds;
- Over-rev time and percentage;

OTHER FEATURES

- Maximum vehicle speed and RPM;
- Coasting time and percentage;
- Automated oil change interval tracking;
- Hard braking incident record;
- Driver initiated incident record;
- Stop Engine and Check Engine code log.

ALLISON TRANSMISSION ELECTRONIC CONTROL UNIT (ECU)

The ECU works with the Allison transmission and with the push-button shift selector.

The World Transmission electronic controls has three major elements: The Electronic Control Unit (ECU), speed sensors and the transmission shift selector control pad. Refer to Controls and Instruments chapter. These components work together to electronically control the functions of the transmission. The throttle sensor, speed sensors and shift selector transmit information to the ECU. The ECU processes this information and then sends signals to actuate specific solenoids located on the control valve body in the transmission. The action of the solenoids affects hydraulic circuits, which in turn control the upshifts, downshifts, and lock up functions. In addition to controlling the operation of the transmission, the World Transmission (WT) electronic controls monitor the system for abnormal conditions.

When one of these conditions is detected, the WT electronic control system is programmed to automatically respond in a manner which is safe for the driver, the vehicle and the transmission. The WT electronic control system turns *ON* the CHECK TRANSLight on the dashboard, which serves as a fault indicator.

To enhance troubleshooting and to allow interrogation of the ECU for valuable service information, the shift selector display on the transmission control pad or an optional diagnostic tool can be used. For information about reading and interpreting diagnostic codes, refer to Technical Information chapter under "World Transmission Diagnostic Codes".

TRANSMISSION RETARDER

The transmission retarder is an optional device that helps to reduce the speed of a vehicle. It improves vehicle control, increases driving safety and permits more economical operation.

The retarder provides slowing power when it is most needed, such as when descending mountain roads, in stop-and-go traffic and on crowded freeways.

The transmission retarder is a vehicle-slowng device, not a vehicle-stopping device. It is not a substitute for the service braking system. The service brake must be used to bring the vehicle to a complete stop.

The retarder is provided with a switch on the dashboard and a lever on the steering column (refer to Controls and Instruments chapter).

Note: *Extended use will raise the temperature of the transmission fluid.*

The retarder helps reduce speed on grades without using the vehicle's conventional service braking system. This virtually eliminates brake overheating and reduces the risk of a runaway vehicle. A retarder greatly increases the service life of brake pads and discs, resulting in reduced brake maintenance costs.

Note: *Each time the transmission retarder system is in operation, the stoplights automatically illuminate.*

Note: *For vehicles equipped with the Antilock Braking System (ABS), as the wheels start to lock up on slippery roads, the output retarder automatically deactivates until the wheels roll freely.*

JACOBS ENGINE BRAKE

The JACOBS engine brake is an optional diesel engine retarder which uses engine compression to aid in slowing and controlling the vehicle. When activated, (refer to "Controls & Instruments" chapter) the JACOBS brake alters the operation of the engine's exhaust valves so that the engine works as a power-absorbing air compressor. This provides a retarding action to the wheels.

The engine brake is a vehicle-slowng device, not a vehicle-stopping device. It is not a substitute for the service braking system. The service brake must be used to bring the vehicle to a complete stop.

Effectiveness of the engine brake system will vary according to the transmission range in use. The engine brake system is more effective in lower ranges and at higher engine speeds.

Warning: *When descending significant grades, use the service brake as little as possible. If the engine does not slow the vehicle to a safe speed, apply service brake and shift to a lower range. Let the engine (and engine brake) slow the vehicle. Keep brakes cool and ready for emergency stopping.*

Note: *Each time the engine brake system is in operation, the stoplights automatically illuminate.*

ANTILOCK BRAKING SYSTEM

The purpose of the Antilock Braking System (ABS) is to maintain vehicle stability and control during braking and to minimize the stopping distance in any road condition.

On slippery roads and more generally in emergency situations, over-braking frequently induces wheel locking. Wheel locking greatly increases braking distance on any road surface. Locked wheels also impede directional control and cause severe tire abrasion. An antilock braking system provides maximum braking performance while maintaining adequate control on slippery roads.

The basis of ABS is constant monitoring of wheel parameters during braking. Sensors on each wheel of the front and drive axles constantly measure wheel speed during braking. This information is transmitted to a four-channel electronic processor which senses when any wheel is about to lock. Modulating valves quickly adjust brake pressure (up to 5 times every second) to prevent wheel lock. Each wheel is therefore controlled according to the available grip.

In this way, the vehicle is brought to a stop in the shortest possible time while remaining stable and under the driver's control.

Warning: *Vehicles following ABS-equipped vehicles may not be able to brake as fast on slippery roads.*

KNEELING SYSTEM

This system lowers the front end, enabling passengers to get on and off the coach without any difficulty.

Note: *This coach is equipped with an interlock system which automatically applies the parking brake when the kneeling system is activated.*

To operate, stop the coach, set the transmission to neutral(N), then push down the rocker switch located on the dashboard. (Refer to "Controls & Instruments" chapter). The parking brake will be applied automatically and a warning flasher will indicate that the front of the coach is being lowered.

To raise the front of the coach to its normal height, push up the rocker switch. The front end will rapidly rise up. The system will release the parking brake and shift the transmission to the previously selected range.

Caution: *Avoid parking the coach too close to the sidewalk or to other obstacles which could damage the coach during kneeling.*

Note: *The kneeling system does not operate when the coach is traveling over 5 mph (8 km/h). Consequently, the driver cannot inadvertently operate the kneeling system at higher speeds.*

Note: *Kneeling is disabled when the entrance door is open.*

HI-BUOY

The coach may be equipped with the optional front Hi-Buoy or full Hi-Buoy. The front Hi-Buoy system has the same functions as front kneeling. In addition it enables passengers to get on or off the coach easily by raising the front end about 4 inches (100 mm), which may prove useful when the dock is higher than usual. The front Hi-Buoy is combined with front kneeling to increase flexibility of the system. Refer to "Controls & Instruments" chapter.

The full Hi-Buoy system raises the whole coach about 4 inches (100 mm). It can be used to enable passengers to get on or off the coach easily, and to safely travel roads with high obstacles. Refer to "Controls & Instruments" chapter.

Note: *The Hi-Buoy system does not operate when the coach is traveling over 5 mph (8 km/h). Consequently, the driver cannot inadvertently operate the Hi-Buoy system at higher speeds.*

LOW-BUOY

This system lowers the coach about 4 inches (100 mm). It enables the coach to drive through underpasses where the height is less than 12 feet (3.7 m).

OTHER FEATURES

Low-Buoy operation is controlled by a valve located on the right lateral console. The valve can be switched to either LOW-BUOY or NORMAL positions. A warning light on the dashboard will indicate that the coach is being lowered. Refer to "Controls & Instruments" chapter.

Caution: Avoid parking too close to the curb or other obstacles that could damage the coach during low-buoy operation.

Note: The Low-Buoy system does not operate when the coach is traveling over 5 mph (8 km/h). Consequently, the driver cannot inadvertently operate the Low-Buoy system at higher speeds.

RETRACTABLE TAG AXLE

Tag axle retraction is controlled by a valve located on the right lateral console. The valve can be switched to either the WHEELS UP or WHEELS DOWN position. The axle will be automatically raised or lowered by air pressure according to the valve position. Refer to "Controls & Instruments" chapter.

The tag axle service brakes operate only when the tag axle is in the WHEELS DOWN position. Never lower the tag axle while the coach is moving. When the tag axle is in the WHEELS UP position, the corresponding indicator light will illuminate and a beep will sound to alert the driver of the tag axle's position. The tag axle can be raised in tight maneuvering areas like in a parking lot or to make it easier to turn a short corner. The tag axle shortens the wheelbase and allows tighter turning. Raising the tag axle transfers extra weight and additional traction to the drive wheels providing improved control on slippery roads.

Caution: In order to prevent damage to the suspension, always raise the tag axle before lifting the coach.

Caution: Never lower the tag axle while coach is moving.

IN-STATION LIGHTING

The in-station lighting system circuit is linked with the optional battery charger. When the charger is connected to an external power source, the in-station lighting circuit can be energized without depleting the batteries.

The receptacle used for the battery charger is located on the main power compartment door

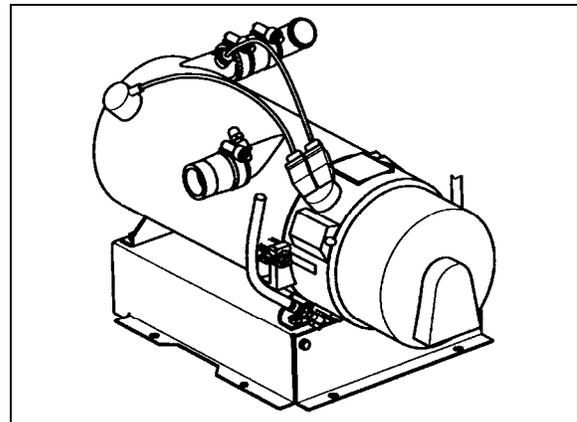
COOLANT HEATER

This optional auxiliary heating system is used for preheating and retaining the heat of water-cooled engines. It can be used before startup to ease starting and to provide rapid operation of the interior heating system. It can also be used with the engine running to maintain coolant heat and interior temperature.

The heater operates independently of the engine. It is connected to the cooling system, heating circuits and to the vehicle's fuel and electrical system.

Warning: The coolant heating system uses the same fuel as the engine. Do not operate in a closed building or while refueling. Operate only in a well ventilated area.

The coolant heater is located in a compartment in the lower part of the rear electrical compartment. To access the coolant heater, remove the panel in the rear electrical compartment.



COOLANT HEATER (104,000 BTU)

22224

SWITCHING THE HEATER ON

The timer light illuminates when the heater is switched ON. Air is forced in to flush out the combustion chamber of residual gases and the water circulation pump begins operating. The fuel metering pump delivers fuel in precise amounts to the combustion chamber, where fuel and combustion air form a combustible mixture which is ignited by the ignition unit.

Once the flame sensor has signaled to the control unit that combustion has taken place, the ignition unit is switched *OFF*. The dashboard telltale light will illuminate to indicate when the burner is *ON*.

Hot combustion gases are diverted at the end of the flame pipe and are then forced through the indirect heating surfaces of the heat exchanger. The heat exchanger transfers the heat to the coolant water passing through the heat exchanger.

The heater is thermostatically controlled and operates intermittently (i.e., the switched-on time of the burner varies depending on the heat requirement). The water temperature is controlled by the built-in water thermostat.

The water circulation pump remains in operation as long as the heater is operating, even during the regulated intervals and during the delayed cut-out of the heater. The pump can also be operated independently of the heater by means of an appropriate circuit. The heater can be switched *ON* at any time (i.e., during the delayed cut-out period). Ignition takes place after the delayed cut-out time expires.

SWITCHING THE HEATER OFF

The fuel supply is interrupted when the heater is switched *OFF*. This causes the flame to go out and a delayed cut-out of 2.5 minutes begins. The circulating combustion air flushes the remaining combustion gases out of the chamber and cools off the heated parts on the exhaust side of the heat exchanger. The water circulation pump continues to transfer the latent heat present in the heat exchanger, thus preventing hot spots. Once the delayed cut-out time expires, both the combustion air blower and the water circulation pump switch *OFF* automatically. A cut-out will automatically take place in case of heater failure. Refer to Technical Information chapter for additional information.

COOLANT HEATER TIMER

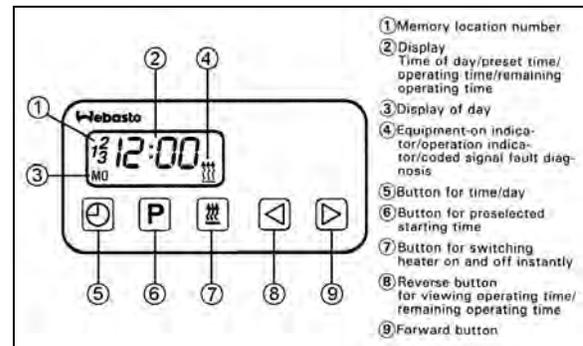
The timer, located on L.H. lateral console is used to program the starting and stopping time of the preheating system and to give Fault Codes. The system indicator light, located on the timer, illuminates when the system is functional.

Caution: The preheating system should not operate for more than one hour before starting engine as this could discharge batteries.

Warning: Preheating system must not operate when vehicle is parked inside or during fuel fill stops.

Note: Preheating system uses the same fuel as the engine.

Timer operating instructions (Webasto)



WEBASTO

22223

These instructions refer to the Webasto timer illustrated above.

Remaining Operating Time

The remaining operating time refers to the period of time the heater still continues to remain in operation. It may be changed while the heater is in operation.

Setting the Digital Timer

After the power has been connected, all symbols on the digital display are flashing. The time of the day and the day of the week must be set.

All flashing symbols of the timer can be set by means of the Forward (9) or Reverse (8) buttons.

When buttons (8) and (9) are pressed for more than 2 seconds, the quick digit advance mode is activated.

Setting the Time and Day of the Week

1. Press button (5) for more than 2 seconds (time display flashes).
2. Press (8) or (9) button to set the time of day.
3. Wait 5 seconds. The time of day is stored (day of week flashes).
4. Press (8) or (9) button to set the correct day of week.

OTHER FEATURES

5. Wait 5 seconds. The day of week is stored.

Viewing the Time (Ignition ON)

Continuous display of current time and day of the week.

Viewing the Time (Ignition OFF)

Briefly press button (5) to display current time and day for 5 seconds.

Switching Heater ON (Instant Heating) With Ignition ON:

Press button (7). Heater is switched on (continuous operation) and continues to operate until button (7) is pressed again or ignition is switched off.

Note: *If the ignition is switched off while heater is in operation, the remaining operating time of 15 minutes flashes on the display and the heater will continue to operate for this period of time.*

Switching Heater ON (Instant Heating) With Ignition OFF:

Press button (7). Heater is switched on for preset operating time (the factory-set heater operating duration is 60 minutes)

Switching Heater OFF

Press button (7). The heater starts its after-run cycle and switches off thereafter.

Presetting Starting Time

1. Press button (6). Memory location number flashes.

Note: *By repeatedly pressing button (6), starting time 2 or 3 can be preset.*

2. Press button (8) or (9) until correct startup time is set.
3. Wait 5 seconds. Preset starting time is stored and day of week flashes.
4. Press button (8) or (9) to select the correct startup day of week.
5. Wait 5 seconds. The startup day of week is stored.

The number of memory location remains on the display. The timer is now in the programmed mode and will switch the heater on at the preset time.

Note: *We recommend that memory locations 1 and 2 be used for presetting times within 24 hours of setting the timer. Memory location 3 can be used for a starting time within the next 7 days of setting the timer.*

Recalling Preset Times

Press (6) repeatedly until the desired memory location number and preset time are displayed.

Canceling Preset Time

Press button (6) repeatedly until no more memory location number is visible on the display.

Setting Operating Time

1. With heater off, press button (8). Operating time flashes.
2. Press button (8) or (9) to set the operating time (between 1 and 120 minutes)
3. Wait 5 seconds. Operating time is stored.

The heater remains in operation for the preset time (except for continuous operation).

Setting the Remaining Operating Time

1. With heater in operation, press button (8). Remaining operating time flashes.
2. Set remaining time with button (8) or (9).
3. Wait 5 seconds. Remaining operating time is stored.

Fault Diagnosis by Coded Light Signals

On heaters equipped with a fault diagnosis system using coded light signals, the equipment-on indicator/operation indicator flashes. Please consult your Webasto dealer.

TROUBLESHOOTING AND MAINTENANCE

The diagnostic code system in Webasto timers is standard. Refer to the Maintenance Manual and to Webasto manual for more information.

Note: *If there are no heater faults, the heater will go through a normal start cycle and regulate based on thermostat setting.*

Note: *Switch on the preheating system briefly about once a month, even during the warm season.*

Caution: *When welding on the vehicle, disconnect the preheater module connector in order to protect this system from voltage surges.*

Caution: To avoid running down the batteries, do not turn on the preheating system for more than one hour before starting the engine.

Warning: The preheating system uses the same fuel as the engine. Do not operate in a building or while refueling. Operate only in a well-ventilated area.

WHEELCHAIR LIFT

Read and understand the RICON or Stewart and Stevenson Operator/Owner's Manual before attempting to use the wheelchair lift. The instructions below are a quick reference and serve to complement the information provided by the lift manufacturer.

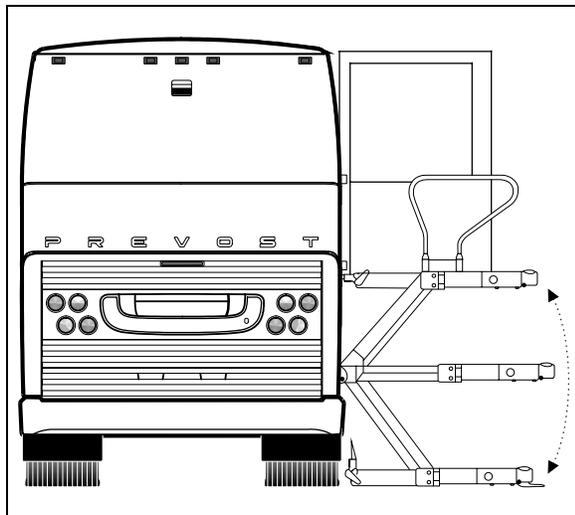
Warning: To operate the optional wheelchair lift, the coach must be parked on a flat and level surface, with the parking brake applied.

Activate the lift mechanism circuit by pressing down on the wheelchair rocker switch on the dashboard.

WHEELCHAIR LIFT AND ACCESS DOORS

If using a RICON lift, open the lift mechanism baggage door and swing open until locked open. For all types of lifts, open the wheelchair access door and swing until locked open.

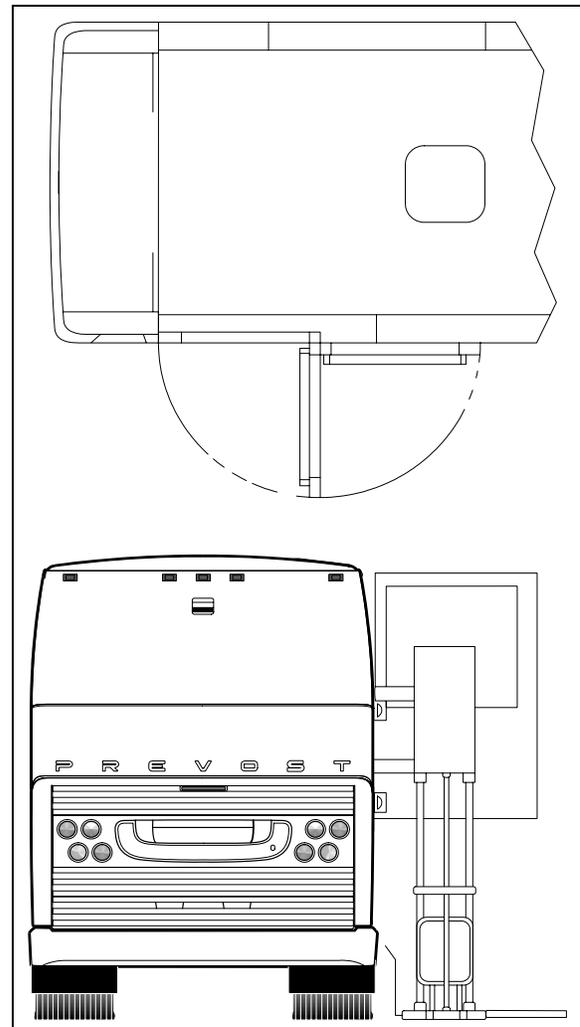
A light inside the vehicle illuminates the doorway when the wheelchair access door is open.



RICON WHEELCHAIR LIFT

23300

A telltale light on the dashboard illuminates when the lift mechanism door or the wheelchair access door is open. Refer to Controls and Instruments chapter.



STEWART & STEVENSON WHEELCHAIR LIFT

23301

Note : When wheelchair lift system is activated or when the lift mechanism door or the wheelchair access door is open, the ECM will inhibit the accelerator pedal to prevent any coach movement. Furthermore, the parking brake cannot be released.

If in motion and the access door opens, a telltale light will illuminate and a audible alert will sound. When the coach reaches 5 mph (8 km/h), the parking brake will activate.

To close the door, lift the lock plate at the base of the door then slam the door shut.

OPERATING THE RICON WHEELCHAIR LIFT

Warning: Inspect the lift before each use as described in the RICON operator manual. If any unsafe condition exists, or if unusual noises or movements are noticed, DO NOT use and contact an authorized RICON dealer for repair.

OTHER FEATURES

Warning: Read and comply with all warning labels and symbols affixed to the wheelchair lift.

Warning: Do not operate with a load in excess of 660 lbs (300 Kg).

The coach must be parked at least 10 feet (3 meters) away from other vehicles or large objects. Control the movement of the lift platform with the handheld control device stowed in the wheelchair lift baggage compartment. When operating the lift, be careful the control wire doesn't bind with the lift mechanism.

Using the handheld control device, deploy the lift by pressing on the OUT switch.

Once deployed, lift the handrails until locked in vertical position. Buckle the restraint belt.

Use the UP/DOWN switch to raise or lower the platform. Upon reaching the top or the bottom of its stroke, the appropriate rollstop will lower.

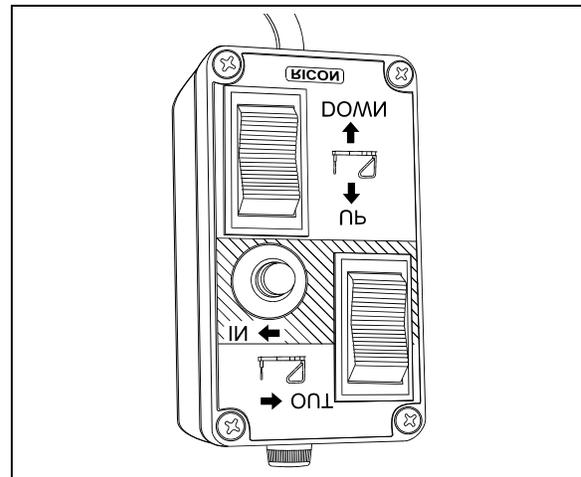
Note: When the lift begins to deploy or retract, a clutch action will be heard as clicks. This is normal.

Note: The restraint belt acts as a safety device and it prevents raising or lowering the lift when not buckled.

Roll the wheelchair onto the platform with the wheelchair facing outwards because the front rollstop is not designed to keep the large rear wheels of a wheelchair from rolling off the platform.

Warning: Use extreme care when rolling on or off the platform and lock the wheelchair brakes while stationary on the platform. Make sure the wheelchair fits safely on the platform. Keep arms and legs away from moving parts.

Note: The indicator light on the control device illuminates when power is supplied (when the lift electrical circuit is activated by the switch on the dashboard).



HANDHELD CONTROL DEVICE

23258

To stow the platform, detach the restraint belt and fold the left handrail, then fold the right handrail (lift the slam lock handles to fold handrails). Press down and hold the IN-LOCKOUT button and the IN switch until the lift is fully stowed.

EMERGENCY RICON LIFT OPERATION

In the event of electrical power loss, manual operation of the lift is possible as explained below.

To manually deploy the platform

Allow enough space for lift operation and passenger boarding. If a break down situation exists and the vehicle cannot be moved so that the lift system can be operated safely, the operator must summon emergency assistance to move the vehicle before operating the lift.

Fully open wheelchair access and lift doors. Ensure that there are no obstacles in the path of the lift.

At the left-side of the lift, raise and hold the stow-loc piston UP.

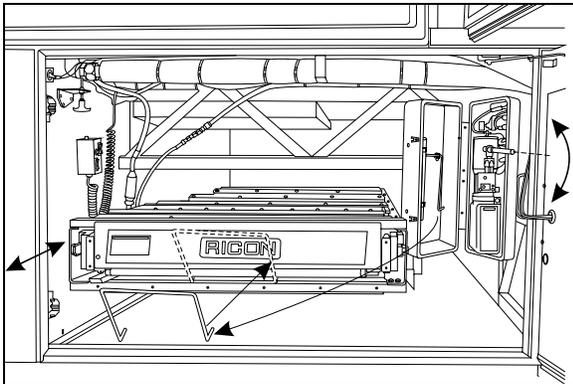
Warning: Do not attempt to manually deploy or stow the lift using less than two people. Manually deploying and/or stowing of this lift requires forces greater than **100 lbs**.

Warning: Ensure that the person or object holding the stow-loc piston is not in the path of the lift platform or frame during this operation.

Warning: To manually deploy the lift platform, a large force is required to overcome the torque clutch initial resistance. After the lift starts moving outward, sustain a constant force until the lift reaches the deployed position.

Remove the emergency platform handle from inside the cover of the lift mechanism box.

Insert the handle hooks at the base of the platform, two holes near the centre of the base are there to receive the hooks. With TWO PEOPLE, grasp the handle and pull firmly. Best results are attained by starting the deployment with a sharp tug and sustaining a constant pull until the lift is all the way out against the carriage stops.



WHEELCHAIR LIFT MANUAL OPERATION 23265

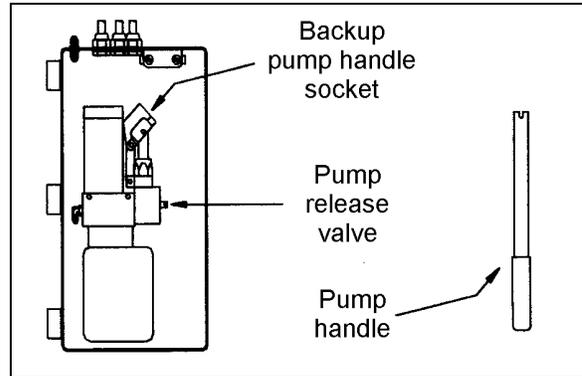
To manually raise the platform

Remove the pump handle from inside the cover of the lift mechanism box.

Insert the handle onto manual backup pump release valve. Make sure the notches at the end of the handle are fully engaged by the release valve pin. Twist the handle CLOCKWISE until lightly-snug and remove.

Caution: During manual raising of the lift, do not raise the platform more than 1-1/2 inches above the vehicle floor level. Any excessive travel will make it difficult to enter the platform and/or damage the lift bridge plate actuator. The outer edge of the bridge plate must rest squarely on the vehicle floor.

Insert handle extension into manual backup pump handle socket and pump to raise the platform to the vehicle floor level.



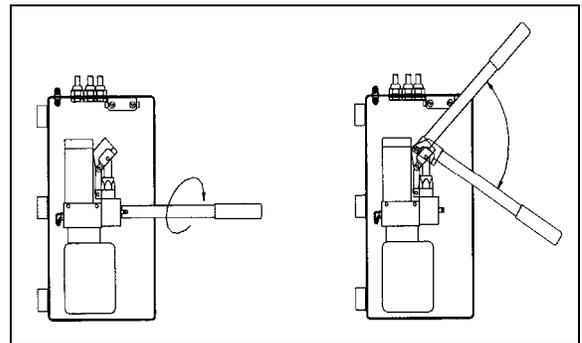
WHEELCHAIR LIFT MANUAL HYDRAULIC PUMP 23268

The lift passenger and attendant must follow the instructions to ENTER or EXIT the vehicle, as previously described.

To manually lower the platform

Caution: Do not turn pump release valve more than 1/4-turn COUNTER-CLOCKWISE. The valve is totally removable which will disable all automatic and manual UP/DOWN functions.

Insert the pump handle extension onto manual backup pump release valve. Make sure the notches at the end of the handle are fully engaged by the release valve pin. Slowly twist the handle 1/4-turn COUNTER-CLOCKWISE until the platform begins to lower.



PLATFORM MANUAL RAISING 23267

Allow the platform to reach ground level.

Insert the pump handle over the manual backup pump release valve. Twist the handle CLOCKWISE until lightly-snug and remove.

Using the rollstop manual control knob and one hand on the rollstop, OPEN the rollstop.

The attendant and lift passenger should follow the instructions to ENTER or EXIT the vehicle, as described previously.

OTHER FEATURES

To manually stow the platform

Raise or lower the platform to the deploy/stow position, the platform frame must be parallel to the side of the lift enclosure. If the exact position cannot be obtained, slightly low is preferred to slightly high.

Using the rollstop manual control knob and one hand on the rollstop, close the rollstop until it latches.

Use one person on each side of the lift to prevent mechanical binding.

With fingers up and palms forward, push the platform forcefully to start the lift moving inward. As the lift begins to move inward, maintain a constant pushing motion until the lift comes to rest completely inside the lift enclosure.

Check that the stow-loc plunger is engaged in the top-front of the platform guide block.

To manually stow the lift from ground level

In the unlikely event of a hydraulic system failure and the manual backup pump is inoperative, the lift may be stowed as follows by **two or more able-bodied people**:

Raise or lower the platform to the deploy/stow position, the platform frame must be parallel to the side of the lift enclosure. If the exact position cannot be obtained. Slightly low is preferred to slightly high.

Using the rollstop manual control knob and one hand on the rollstop, close the rollstop until it latches.

Warning: *The platform is heavy and should be lifted using caution and proper lifting technique: Always lift with legs and not the back when attempting to lift heavy objects.*

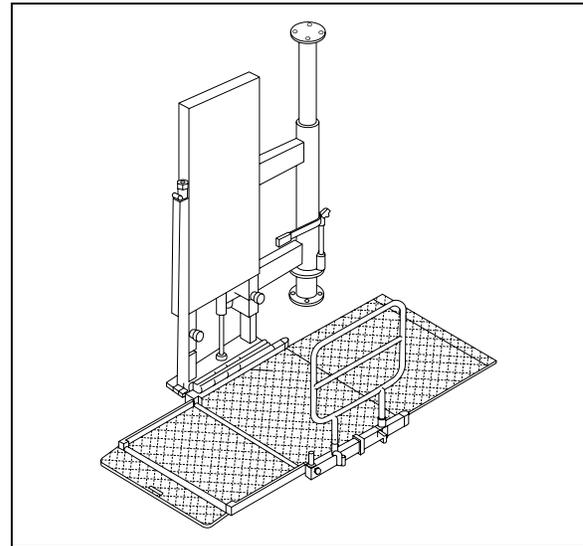
Use one person on each side of the lift to prevent mechanical binding.

With fingers up and palms forward, push the platform forcefully to start the lift moving inward. As the lift begins to move inward, maintain a constant pushing motion until the lift comes to rest completely inside the lift enclosure.

Check that the stow-loc plunger is engaged in the top-front of the platform guide block.

OPERATING THE ST. & ST. LIFT

This type of wheelchair lift stows entirely in the wheelchair doorway of the coach. If unfamiliar with the operation of this lift, do not operate. Also, heed all warnings and precautions listed in the owner's manual.

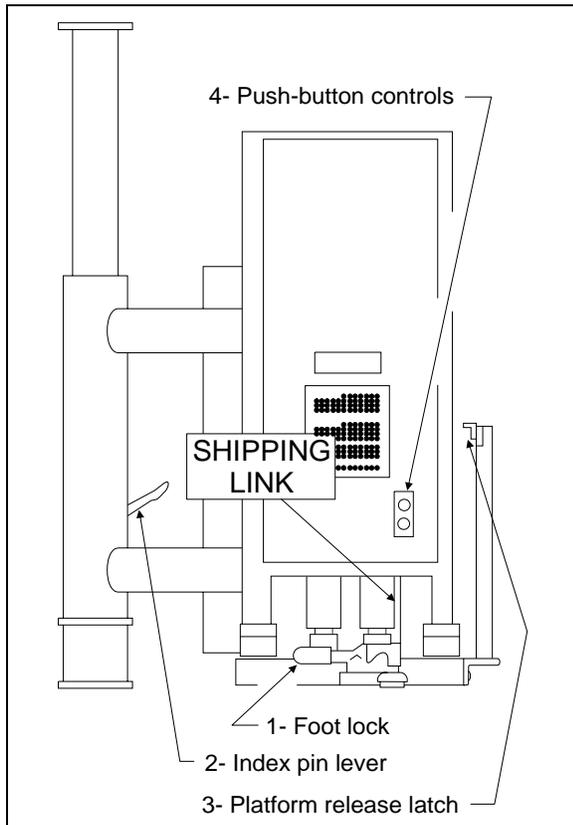


STEWART AND STEVENSON WHEELCHAIR LIFT 23281

Warning: *Do not operate with a load in excess of 750 lbs. (340 Kg).*

- Remove the shipping link if still in place. Keep for use when servicing the lift;
- Release the foot lock on the lift by pulling back on the lever (1);
- Disengage the column index pin by pulling down on column lever (2). Rotate the lift outside of the coach until the index pin engages;
- Push "Lower" button on the control panel (4);
- When the lift is fully extended, release the latch and allow the platform to unfold;
- Raise the guardrail to the locking position and unlock the front platform;
- Passenger must always be loaded facing outward from the vehicle with the wheelchair centered on the main platform and the wheelchair brake set. Electric wheelchairs must be loaded with the power off;
- Raise the front barrier to the upright and locked position. When raising or lowering the lift, the barrier must be in the upright and locked position or the lift will not operate;

- Raise or lower the lift by using the push-button controls (4).



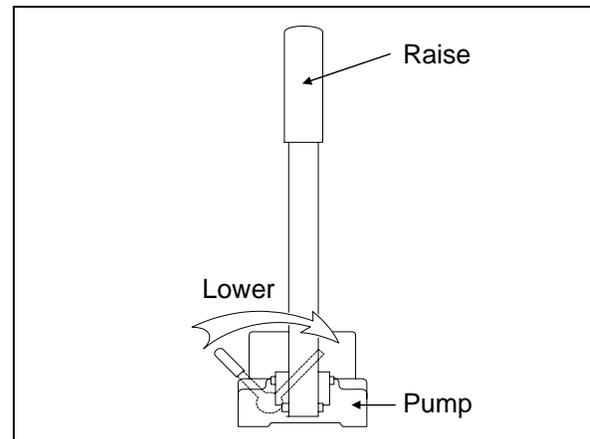
STEWART AND STEVENSON WHEELCHAIR LIFT 23282

Stowing the Lift

- Bring the lift to a comfortable position using the controls (4);
- Fold down the rear platform first, then fold the barrier onto the front platform. Finally fold the front platform down on top of the rear platform;
- Disengage the guardrail lock and fold the guardrail down;
- Raise the platform assembly and firmly lock the platform in place;
- Using the push-button controls, raise the lift until it stops;
- Disengage the column index pin by pulling down on the column lever then swing the lift in until the index pin engages (2);
- Set foot lock on the lift by pushing downward on the lever (1).

EMERGENCY ST. & ST. LIFT OPERATION

The lift is equipped with two hand pumps for manual operation in case of an electrical failure or other malfunction. The pump for the lift is located curbside in the rearmost baggage bay.



EMERGENCY ST. & ST. LIFT OPERATION 23283

- Manually deploy the lift as during normal operation;
- To lower the lift, open the lowering valve on the bottom of the hand pump, turn the lever slowly to lower the lift;
- To raise the lift from street level, close the valve at the hand pump by moving the lever back to the standard "Raise" position;
- Raise the lift by pumping the hand pump until the lift reaches stowing height;
- Stow the lift and lock into position as per normal operation;

The small handle on the pump must be returned to the closed position when normal operation is restored.

MAINTENANCE

All maintenance and repairs must be done by an approved facility as described in the warranty. However, a visual inspection by the operator will ensure catching most problems at an early stage.

The following items should be routinely inspected:

- Rollers. Look under the main roller caps and inspect the main rollers for excessive wear or flat spots while operating the lift. Also inspect the inner frame tube for galling while operating the lift;

OTHER FEATURES

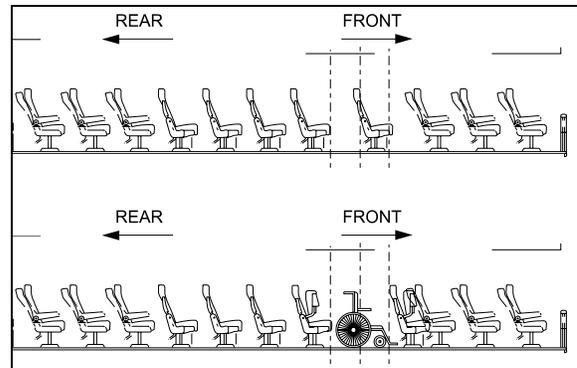
- Hydraulic cylinders. Look for leaking seals. Have a new seal kit installed as soon as leaks are detected;
- Power unit. Look for leaks on the Power Unit and at connections. Test the operation of the hand pump. Replace or tighten faulty components;
- Hoses and fitting. Look for leaks or damage. Have replaced as necessary;
- Hardware. Check for loose or missing fasteners. Tighten or replace as needed;
- Non-skid surfaces. Check non-skid surfaces for excessive wear. Replace as needed.

Troubleshooting chart	
No power	
Faulty connection	Check wire connections. Repair in necessary.
Faulty fuse	Inspect fuses. Replace if necessary.
Faulty switch	Test switches. Replace if necessary.
Tripped circuit breaker	Test breaker. Determine the cause of tripping and repair.
Lift raises slowly and does not stay up	
Lowering valve does not close	Clean or replace lowering valve.
Faulty relief valve	Clean or replace relief valve.
Lift does not raise or lower	
Platform	Platform must be unfolded and outer barrier raised.
Faulty limit switch	Test limit switch. Replace if faulty.
Faulty control switch	Test RAISE and LOWER switches. Replace if necessary.
Low hydraulic oil	Check for leaks. Repair if necessary. Fill oil reservoir.
Lift does not lower or lowers very slowly	
Cold weather	Lift lowers by gravity and in cold weather will lower very slowly.
Faulty connection	Check wire connections. Repair if necessary.

Faulty control switch	Test LOWER switch. Replace if necessary.
Faulty solenoid	Test lowering solenoid. Replace if necessary.
Hydraulic reservoir overflows	
Reservoir filled with lift in wrong position	Lift must be fully extended and down when filled. Drain the reservoir and refill with ATF automatic transmission fluid when the lift is fully extended and in the down position.

INTERIOR APPOINTMENTS

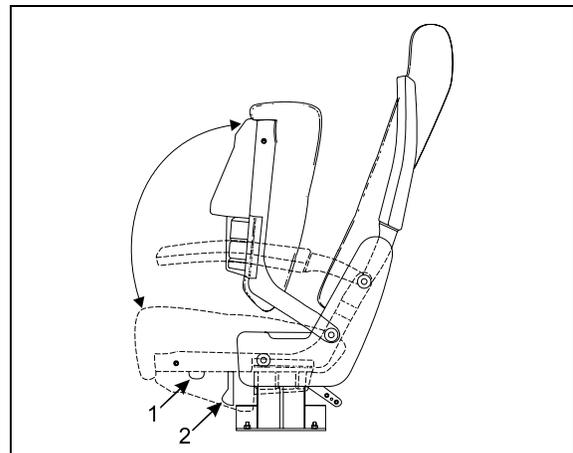
To accommodate one wheelchair, two rows of regular seats on one side of the coach must be folded and slid away. Seats may be folded on both sides of the coach to make room for a second wheelchair.



POSSIBLE SEATING ARRANGEMENTS

23259

An electrical wheelchair or tri-wheeler may require sliding back seats from both sides of the coach to allow enough turnaround space.



FOLDING SEATS

18430

To fold a set of seats, raise the seat back then lift up the seat cushion (pull on lever 1). To slide

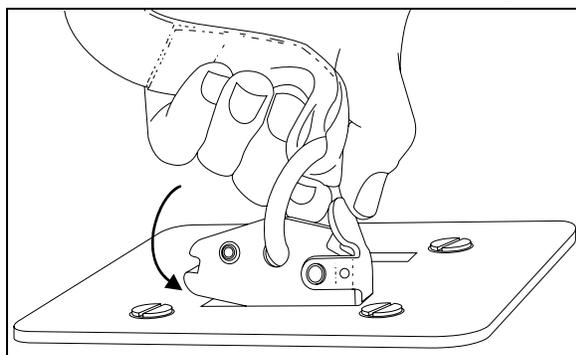
a row of seats, remove the black covers from the floor tracks. Pull the lever 2 while sliding the seat along the track.

A hostess/stop switch is located on the window post, within easy reach of the wheelchair occupant.

Mobility Aid Restraint System

To secure a wheelchair, scooter or other mobility aid, four restraint belts must be used (one at each corner). The occupant must also be restrained by a lap belt and a shoulder belt (see "Wheelchair Occupant Restraint" in this chapter).

Each belt anchor slots into a floor anchorage.



BELT ANCHORING SYSTEM

23291

To anchor the restraint belts, push on the anchor lock, slide in the retractor anchor, lower the other side and release the anchor lock so it locks in place. Hook one strap to each corner of the wheelchair frame (not the wheels) and tighten the belts. The anchor lock must face away from the object it restrains.

To remove the restraint belts, release tension in the belts, unhook the wheelchair and remove the anchors.

To release the anchor, open the anchor lock, slide towards the lock then lift out the other end of the anchor from the slot.

Warning: Do not let restraint or safety belts rub against sharp edges. Do not bleach or dry clean.

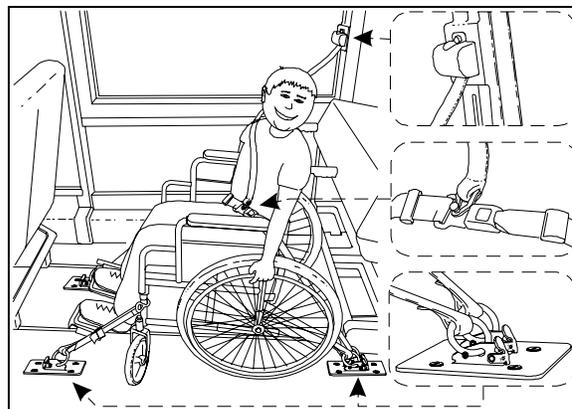
Wheelchair Occupant Restraint

Once the wheelchair is safely restrained, secure the wheelchair occupant in the following manner:

Anchor the lap belt to the two remaining floor slots behind the occupant. Adjust the belt so it sits snug across the hips. Snap the shoulder belt

to the pin on the lap belt. A retractor adjusts shoulder belt length automatically.

To release the belt, press the red button in the center of the buckle.



WHEELCHAIR RESTRAINTS AND ACCESSORIES

23262

Warning: A snug fit with the lap belt positioned low on the hips is necessary to maximize safety. The belt should not be worn or twisted. Avoid pinching the belt and/or hardware. Do not wear over rigid or breakable objects such as eyeglasses, pens or keys as these may cause injuries.

STARTING AND STOPPING PROCEDURES

STARTING THE ENGINE

In normal circumstances, the engine should be started from the driver's seat. However, a rear-start panel in the engine compartment permits starting the engine from that location, mainly for maintenance purposes.

STARTING FROM THE DRIVER'S SEAT

- Apply the spring-loaded parking brake by pulling the parking brake control button all the way up;
- Make sure the starter selector switch located in the engine compartment is set to the *NORMAL* position;
- Check that the safety switch in the main power compartment and on the dashboard are set to the *ON* position;
- Place transmission in neutral;
- Turn ignition key to *START* position (refer to Controls and Instruments chapter), release the key after the engine starts.

Warning: If the "STARTER ON" telltale light remains illuminated after releasing the ignition switch, stop the engine immediately and set the safety switch to the off position. Have the starter checked immediately.

Caution: Do not engage starter for more than 15 seconds at a time. If engine does not start within 15 seconds, release ignition key and let starter cool for one minute before attempting to restart.

Caution: Do not press accelerator pedal before starting. This could result in an electronic control unit fault and degrade the fuel system control.

Caution: Special precautions are necessary with turbocharged engines to avoid possible turbine damage. After starting, run the engine at normal idle for two minutes to allow lubricating oil to reach the turbocharger. Then run the engine at fast idle. Let oil pressure reach normal operating range before driving.

Note: If engine does not start, return key to OFF position before attempting to restart.

Note: If the accelerator pedal is depressed before starting, release and wait 30 seconds before attempting to restart.

Stopping the Engine

- Apply parking brake and place transmission in neutral (N);
- Shut off all electrical loads;
- Allow engine to idle for at least two minutes before shutting engine OFF. This insures that the turbine speed drops and allows time for the engine exhaust gas temperature to drop to about 300 °F (150 °C);
- Turn the ignition key to the OFF position.

Caution: Do not shut OFF engine when running above normal idle.

Caution: Set the Safety switch to the OFF position after parking and when left unattended for an extended period of time.

STARTING FROM THE ENGINE COMPARTMENT

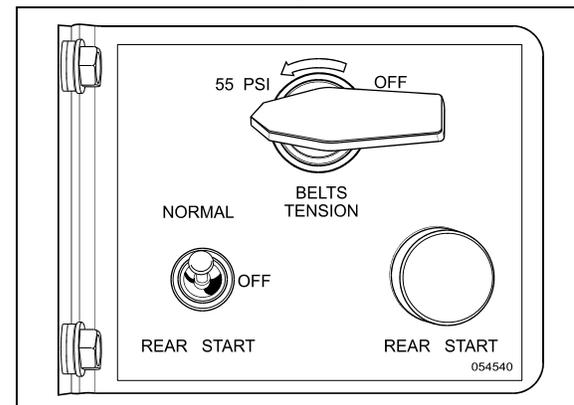
Switches to start and stop the engine from inside the engine compartment are mounted on a small panel.

Warning: Apply parking brake and place transmission in neutral (N) before starting engine from inside the engine compartment.

Set the Safety switches to the ON position;

Set the starter selector switch to the *REAR START* position;

Press the starter push-button switch. Release push-button after the engine starts.



REAR START PANEL

01044

Warning: Do not wear loose clothing when working near engine. Stand clear of rotating components.

Caution: Refer to cautions in "Starting From The Driver's Seat" in this chapter.

STARTING AND STOPPING PROCEDURES

Stopping the Engine

To stop the engine, set the starter selector switch to the *OFF* position.

Caution: Do not stop engine by any other method.

Warning: Apply the parking brake before stopping engine. In the event the engine is stopped while the parking brake is not applied, a reminder alert will sound.

COLD WEATHER STARTING

The vehicle may be equipped with the optional ether cold starting aid to facilitate cold-weather starts. A toggle switch located near the ignition switch on the dashboard activates the starting aid. A dashboard logic circuit prevents inadvertent activation while the engine is running.

To activate the ether starting aid, proceed as follows:

1. While cranking engine, press the "Ether" rocker switch on the dashboard for 3 seconds to fill the solenoid valve;
2. Release rocker switch to discharge a shot of ether;
3. Allow 3 seconds for the shot to discharge;
4. Start the engine, use a second shot if necessary to keep the engine running.

Caution: Use the cold starting aid only when absolutely necessary. Excessive use of starter fluid could result in serious engine damage.

Caution: Do not engage starter for more than 15 seconds at a time. If engine does not start within 15 seconds, release ignition key and let starter cool for one minute before attempting to restart.

JUMP STARTING

In order to avoid damage to solid-state electrical components, it is important that jumper (booster) cables be used correctly and only in emergencies. To jump start, use another 24 volt DC, negative grounded, power source. Use only jumper cables rated at 500 cranking amperes.

Warning: Injury, explosion, battery acid damage or charging system overload may result if these jump starting procedures are not precisely followed.

Warning: Wear eye protection and remove rings, metal jewelry and watches with metal bands.

Warning: The battery could rupture or explode if jump started when the run-down battery fluid is frozen or if the battery fluid level is low. Check condition of run-down battery before attempting to jump start.

Warning: The gases given off by batteries while jump starting are explosive. Do not smoke near batteries.

Caution: Do not let the two vehicles touch. Keep a walk-through distance between the two vehicles. Make sure positive (red) and negative (black) jumper cable clamps do not touch.

Caution: Never connect the jumper cable to the negative terminal post of the run-down battery.

Caution: Do not jump start if a maintenance-free battery has a yellow test indicator. Have the battery replaced.

Caution: Before attempting to jump start, make sure the parking brake is applied and the transmission is in neutral (N). Turn off all lights, heaters and other electrical accessories.

Caution: Choose a booster vehicle which produces comparable amperage as your vehicle.

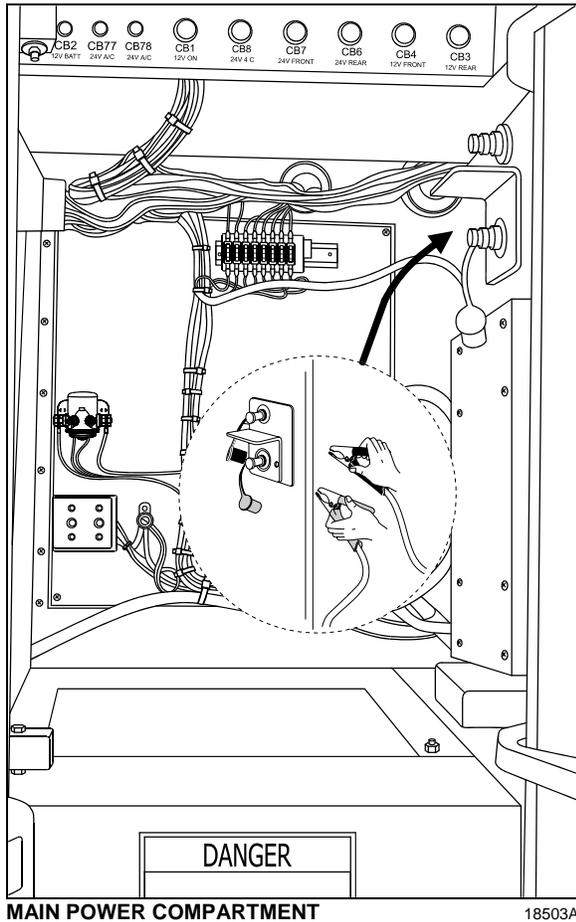
To jump start, proceed as follows:

1. Remove the protective caps from the booster block terminals located in the main power compartment;
2. Connect one end of the red jumper cable to the positive (+) post of the booster power source. If the good battery is in another vehicle, that vehicle's engine must be shut *OFF* before connecting;
3. Connect the other end of the same red jumper cable to the positive (+) terminal on the booster block;
4. Connect one end of the black jumper cable to the negative (-) post on the booster power source;
5. Connect the other end of the same black jumper cable to the negative (-) terminal on the booster block; If the good battery is in another vehicle, start that vehicle's engine;

STARTING AND STOPPING PROCEDURES

- Let the engine run for a few minutes, then start the vehicle with the run-down battery;
- Disconnect the jumper cables in reverse order given in steps 2 through 5;
- Install protective caps on the booster block terminals.

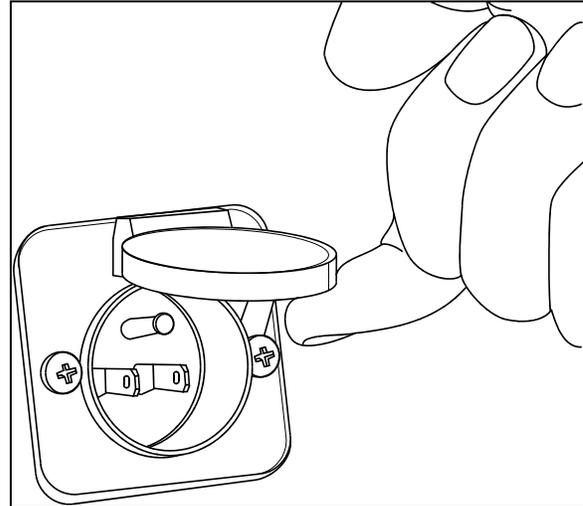
Note: Jumper cables must be rated at 500 cranking amperes. If jumper cable length is 20 feet (6 m) or less, use 2/0 (AWG) gauge wires. If cable length is between 20 to 30 feet (6 to 9 m), use 3/0 (AWG) gauge wires.



ENGINE BLOCK HEATER

The vehicle is equipped with an engine immersion-type electric block heater to assist cold weather starting. A connector is on the rear engine compartment door. Using an extension cord, connect to a 110 - 120 VAC outlet.

Caution: Connect only to a 110-120 VAC power source. Use only grounded (three prongs) extension cords with a minimum rated capacity of 15 amps. Disconnect the extension cord before starting. Before driving, make sure the extension cord is disconnected and the engine compartment door is closed.



110-120 VOLTS CONNECTOR

06390

ENGINE WARM-UP

After starting the engine, keep the parking brake applied and let the engine run at normal idle for two minutes to allow lubricating oil to reach the turbocharger. Increase engine speed to fast idle, using the fast idle switch located on the dashboard for five minutes, without loading the engine. Monitor the gauges and indicator lights to make sure all conditions are normal. If an abnormal condition is observed, stop the engine immediately and have the condition corrected.

Warning: Never let the engine run in an enclosed, non-ventilated area. Engine exhaust fumes contain dangerous gases which can be fatal if inhaled. Before warming up the engine, open the door(s) or move the vehicle outside.

Note: The engine will reach normal operating temperature shortly after driving. Avoid driving at full throttle until engine coolant temperature reaches 140°F (60°C).

TRANSMISSION WARM-UP

With an automatic transmission, when the temperature falls below -20°F (-29°C), the CHECK TRANS telltale light illuminates after the engine is started, and a reminder tone will sound. In this case, the transmission will be

STARTING AND STOPPING PROCEDURES

locked in neutral (N) until the transmission temperature rises above -20°F (-29°C) and the CHECK TRANS telltale light goes out. The transmission will only operate in first or reverse gears until it reaches normal operating temperature.

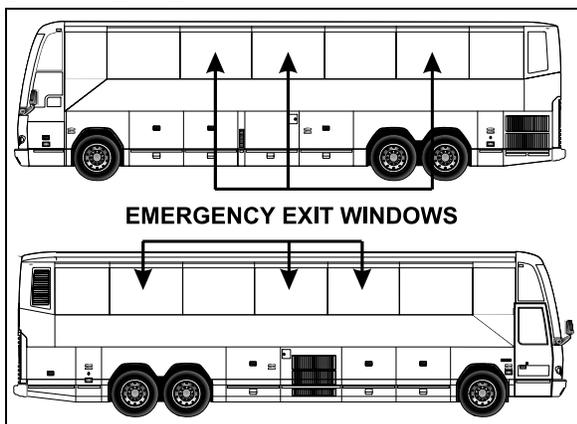
SAFETY FEATURES AND EQUIPMENT

EMERGENCY EXITS

Locate and learn how to use all possible emergency exits. It is good practice to inform passengers of the location of exits and how to use them in case of an emergency.

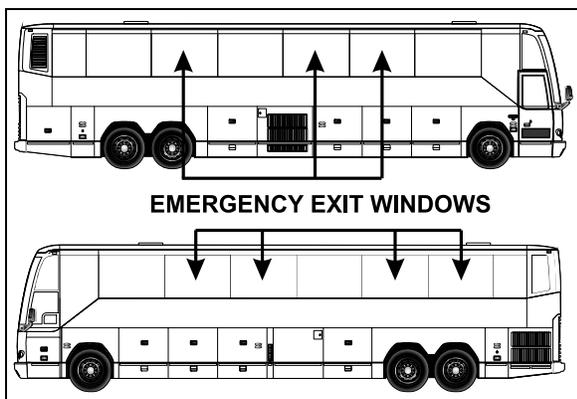
SIDE WINDOWS

Some side windows can be opened from the inside for emergency exit. A decal located on the bottom of each passenger window indicates the location of the nearest emergency exit. Also, blue lights close to the wall in the overhead storage compartments illuminate the emergency exit decals. These lights illuminate when the general lighting switch is on.



EMERGENCY EXIT WINDOWS (H3-41)

18489A



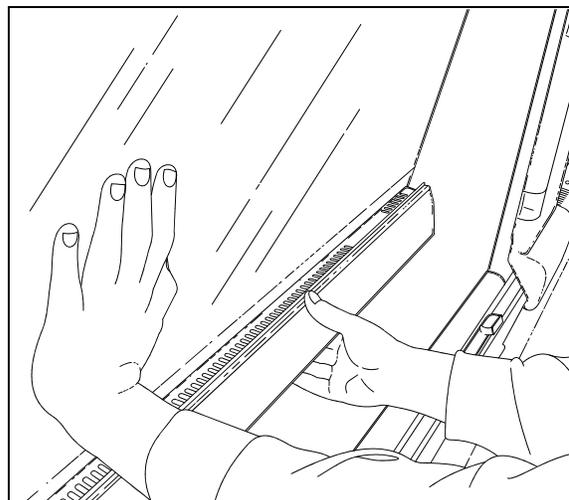
EMERGENCY EXIT WINDOWS (H3-45)

18488A

To open a side window emergency exit, tilt up the release bar and push the bottom of the window outwards, as illustrated below. The window is hinged from the top and will not fall out.

A telltale light on the dashboard illuminates when a window is opened. Refer to Controls and Instruments chapter for more information.

To close the window, tilt up the release bar and pull the window back. Push down the release bar to lock shut.

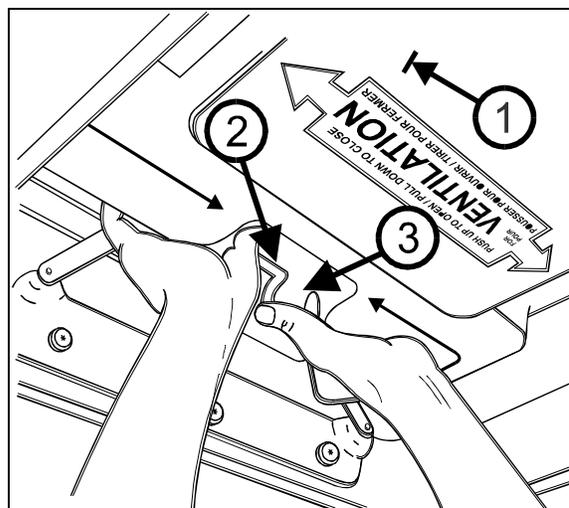


SIDE WINDOW EMERGENCY EXIT

18391

ROOF HATCH

A roof ventilation hatch, designed to be opened by occupants may be installed in the roof at the rear of the vehicle. Another optional roof hatch may be located in the front of the vehicle. The hatches can serve as emergency exits. In case of an emergency, push out the ventilation hatch completely (1). To release the hatch, pull tab (2) rearward while pushing handle (3) out. An instruction decal with complete operating instructions is located on the hatch.



EMERGENCY ROOF ESCAPE OPENING

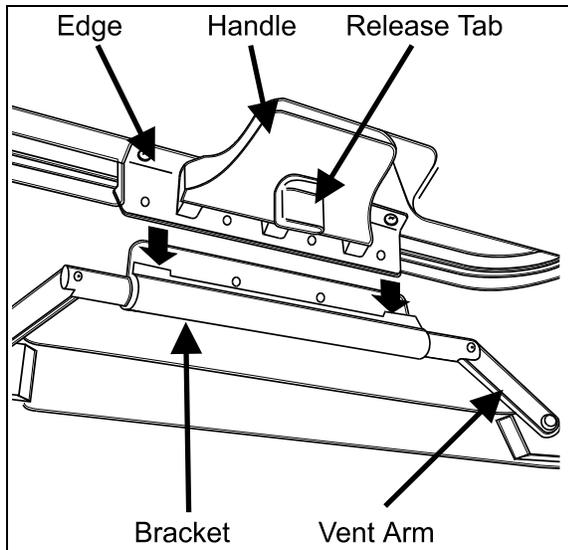
OEH3B604

Note: In the event of ventilation blower motor failure, the roof hatch may be used to aid ventilation by pushing the hatch upward.

SAFETY FEATURES AND EQUIPMENT

Caution: Be aware of reduced vehicle overhead clearance when driving under overpasses with the roof hatch open.

To latch handle after use, vent arms must be pushed upright in FULL OPEN VENT position. Insert edge between the two sections of the bracket and pull handle in to lock the hatch. Finally, pull the hatch in to closed position, one side at a time.

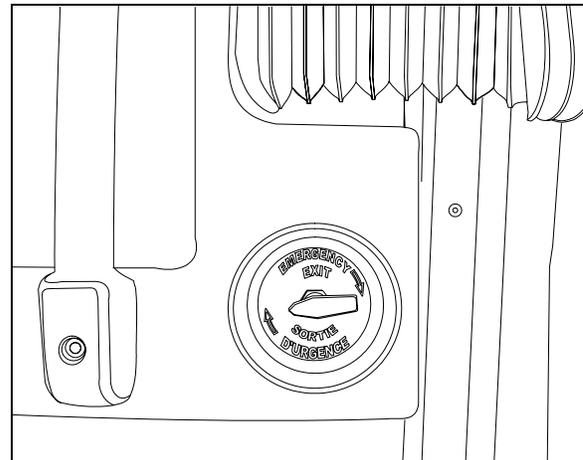


ROOF ESCAPE HANDLE

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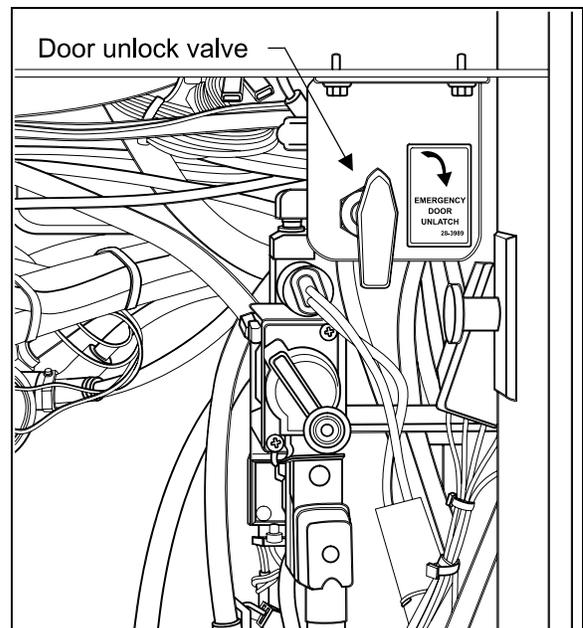
ENTRANCE DOOR

An unlock air valve located on the front wall, close to the entrance door allows emergency depletion of the door and locking cylinders. Another unlock valve is located in the front service compartment and allows emergency opening from outside the cabin. To open the door in an emergency situation, first turn the unlock valve in the direction of the arrows and push (or pull) the door open. To close the door after emergency opening, return the valve to its initial position, open the door using the door cylinder, then close the door normally.



INTERIOR UNLOCK AIR VALVE

12164



FRONT SERVICE COMPARTMENT

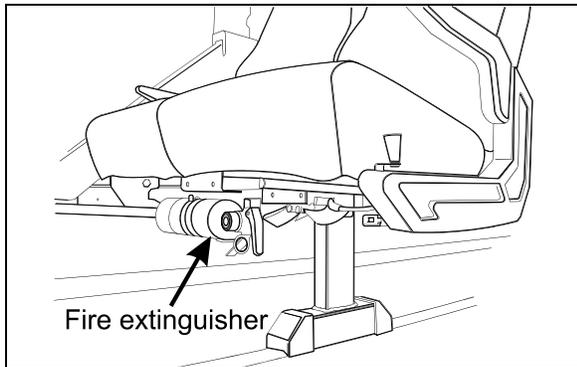
12189

EMERGENCY EQUIPMENT

The coach is equipped with numerous safety features and equipment. Verify the equipment regularly and keep on-hand and in good condition at all times. Following is the enumeration and description of safety equipment found on board.

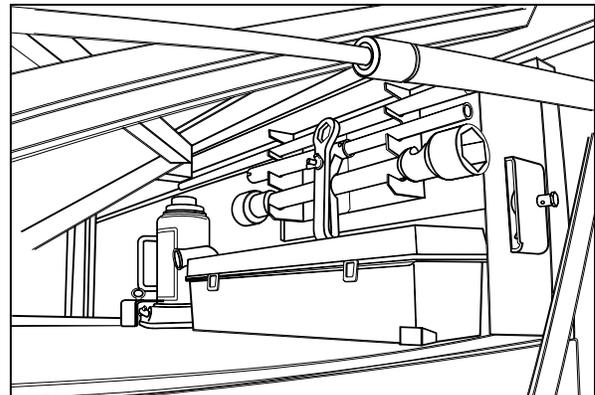
FIRE EXTINGUISHERS

Two fire extinguishers are located under the seats in the first row behind the driver. Instructions for use are found on the extinguishers. Make sure you know how to operate fire extinguishers in case of an emergency.



FIRST ROW SEATS

23136

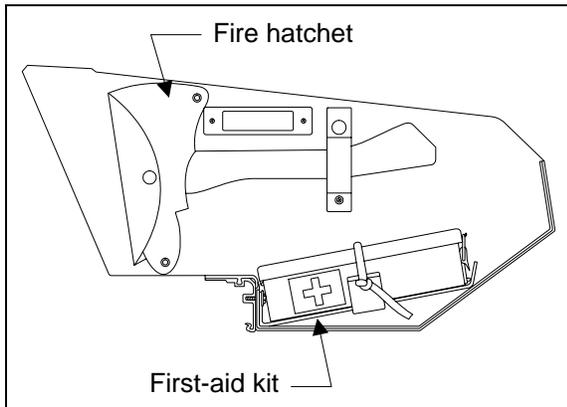


REFLECTOR BOX, JACK AND TOOLS

13015

FIRST-AID KIT

The optional first-aid kit is stored in the first curb-side overhead storage compartment. A white cross over red background decal identifies the kit.



FIRST CURB-SIDE OVERHEAD COMPARTMENT

23141

FIRE HATCHET

A optional fire hatchet may be installed in the first curb-side overhead storage compartment.

WARNING REFLECTORS

A box containing three triangular reflectors is provided to warn other drivers on the road in case of a breakdown. The box is located with the jack and tools kit in the first curb-side baggage bay. The reflectors provide visible warning of an emergency situation. The three reflectors should be placed as indicated on the box cover. These reflectors comply with FMVSS 125 (Federal Motor Vehicle Safety Standards).

JACK AND TOOLS

A kit for jacking up the vehicle and changing wheels is stored in the first curb-side baggage bay.

The kit includes:

- One 30 ton bottle jack;
- A wheel nut wrench and lever;

SPARE PARTS KIT

The vehicle may be equipped with a spare parts kit (optional). The kit contains parts such as bulbs, circuit breakers, belts, etc. The spare parts kit is stored in the first baggage bay.

LIMP-HOME BELT

In case of an alternator jamming, install the limp-home belt on the remaining "good" alternator. The installation of the belt allows the coach to be driven to a repair facility after only minor manipulations.

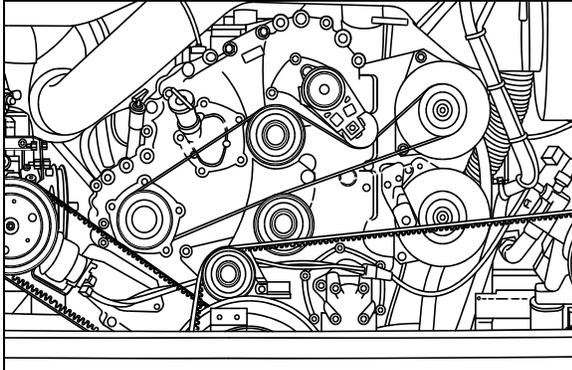
Lower alternator failure:

1. Raise the belt tensioner. Use a breaker bar with a 3/4 inch drive to rotate the tensioner pulley upward and relieve alternator belt tension. Remove belt;
2. Install the limp-home drive belt (#506669) on the drive and top alternator pulleys first;
3. Install the limp-home belt on the top idler pulley;
4. Slide the belt on the lower idler pulley. Use a screwdriver or even a quarter to ease clearing the pulley lip (the lower pulley is devoid of grooves, making it easier to slide the belt in place);

SAFETY FEATURES AND EQUIPMENT

5. Gently release the belt tensioner.

Note: To prevent the batteries from discharging the HVAC system is turned OFF when running on a single alternator.

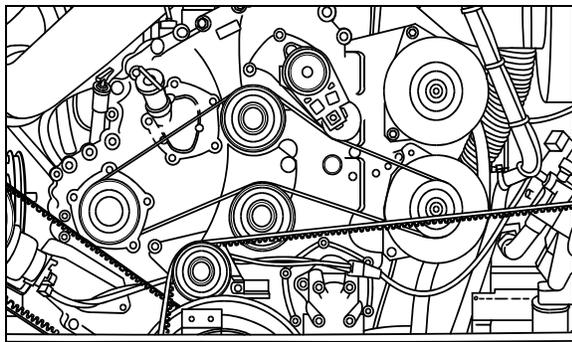


LIMP-HOME BELT ON TOP ALTERNATOR 01080

Top alternator failure:

1. Raise the belt tensioner. Use a breaker bar with a $\frac{3}{4}$ inch drive to rotate the tensioner pulley upward and relieve alternator belt tension. Remove belt;
2. Remove the compressor drive belt snubber assembly and bracket;
3. Install the limp-home drive belt (#506669) on the drive and lower alternator pulleys first;
4. Install the belt on the top idler pulley;
5. Slide the belt on the lower idler pulley. Use a screwdriver or even a quarter to ease clearing the pulley lip (the lower pulley is devoid of grooves, making it easier to slide the belt in place);
6. Gently release the belt tensioner. Refer to figure below.

Note: To prevent the batteries from discharging, the HVAC system is turned OFF when running on a single alternator.



LIMP-HOME BELT ON LOWER ALTERNATOR 01081

SPARE WHEEL AND TIRE

The spare wheel and tire is located in a compartment behind the reclining front bumper.

In case of a flat tire, turn ON the hazard flashers and bring the coach to a stop on the side of the road. Apply the parking brake. Make sure the coach is parked safely away from traffic. Set up the triangular reflectors in accordance with applicable highway regulations.

CHANGING A WHEEL

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

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

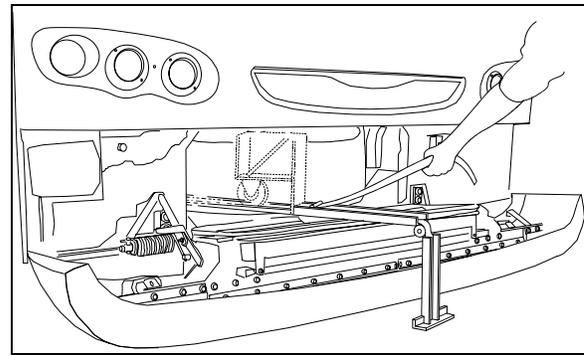
The bumper will lower gradually.

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

Removing the spare wheel from the compartment

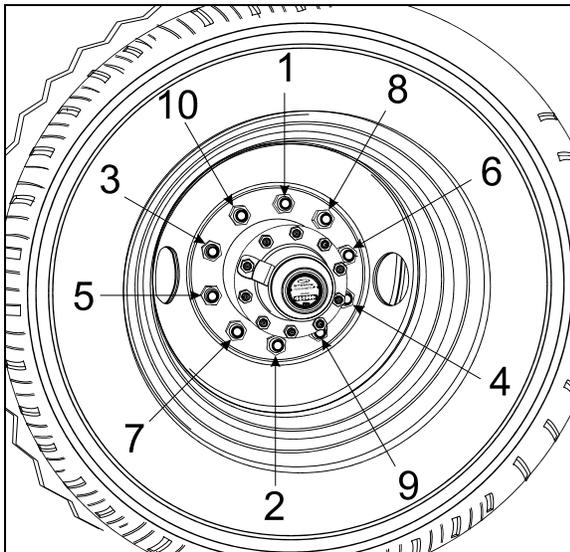
To remove the spare wheel and tire from the compartment, loosen the turn-buckle on the holding chain to release the wheel and dolly. Remove the wing nut holding the support and rail extension assembly. Remove the support and rail extension assembly. Attach the assembly to the matching holes located in the front center of the spare tire compartment. Remove the spare wheel using the strap. Remove the tire covering. Remove the two nuts and separate the spare wheel from the dolly.

Caution: Before driving, make sure that the support and rail extension assembly is reinstalled and the wheel has been secured with the holding chain.



REMOVING SPARE WHEEL AND TIRE 13024

1. Loosen the wheel nuts about one turn;
2. Raise the vehicle by the closest jacking point (See Jacking Points in this chapter);
3. Remove the wheel nuts and remove the wheel;
4. Mount the spare wheel over the studs, being careful not to damage the stud threads;
5. Screw in the wheel nuts according to the sequence shown in the following figure and tighten slightly more and repeat the sequence a few times to position the wheel correctly. Once tightening induces wheel spin, lower the coach for final tightening;
6. Tighten the nuts progressively in the sequence shown. Final tightening should be done using a torque wrench. Dry tightening torque is 450 – 500 lbf-ft (610 – 680 Nm) for steel as well as for aluminum wheels.



TIGHTENING SEQUENCE

13018

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

Note: Periodically check the spare tire inflation pressure. Tire pressure should be the maximum pressure specified in the chart.

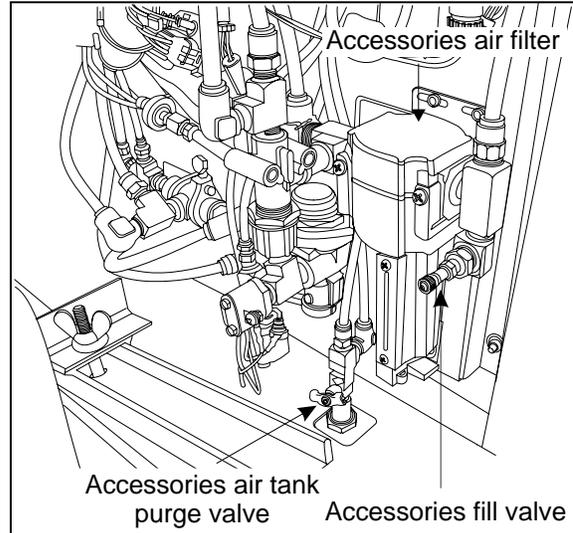
Note: Periodically check that the spare is securely fastened in its compartment.

Caution: Before driving, be sure the flat tire, track, jack and tools are securely reinstalled in their respective compartments.

Caution: Check that the bumper is securely closed shut before driving.

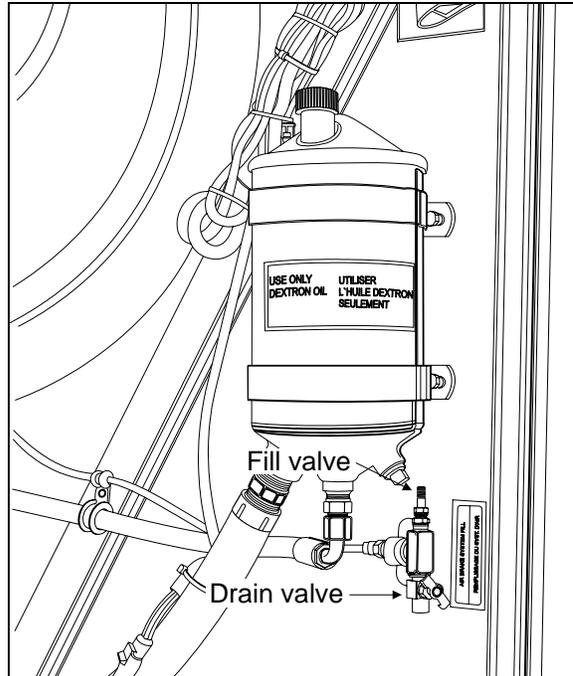
EMERGENCY AIR-FILL VALVES

The vehicle is equipped with two air system emergency fill valves to supplement the air system when air pressure is low and the engine cannot be operated. One valve is located inside the front service compartment. The other valve is located inside the engine compartment.



FRONT SERVICE COMPARTMENT

12130



FILL VALVE IN ENGINE COMPARTMENT

12162

Both air system emergency fill valves are fitted with standard tire valve stems. The air systems can be filled using any standard external air supply line. The fill valve located in the engine compartment supplies air for all systems (brakes, suspension and accessories). The fill

SAFETY FEATURES AND EQUIPMENT

valve located in the front service compartment supplies air for accessories only.

Caution: Air filled through the two emergency fill valves will pass through the standard air filtering-drying system. Do not fill air at any other location. Do not exceed 120 psi (827 kPa).

EMERGENCY AND PARKING BRAKES

During normal operation, if air pressure in any brake circuit drops below 40 psi (276 kPa), spring-loaded emergency brake will be immediately applied at full capacity to the drive axle wheels to stop the vehicle.

Spring-loaded parking brake is applied by pulling up the control valve knob located on the L.H. lateral console.

Parking brake is not designed to be used as a service brake. For normal driving conditions, the control valve knob must remain in the down position.

Warning: Always apply the parking brake before leaving the driver's seat.

Note: Only use the parking brake to supplement the service brake to stop the vehicle in emergency conditions. The stopping distance will be considerably longer than when using normal service brake.

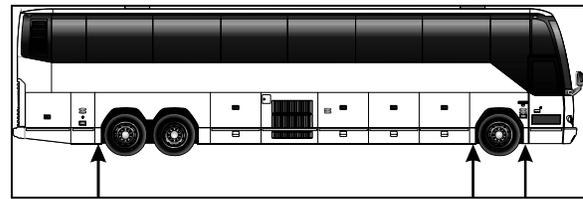
Note: Before releasing the parking brake by pushing down the control valve knob, check the pressure gauges to make sure that the brake system air pressure is greater than or equal to 95 psi (655 kPa).

Note: A beep will sound if the ignition switch has been turned off without applying the parking brake. The same beep will sound if pressure is still applied to the service brake pedal.

Note: The stoplights will automatically turn on when the parking brake is applied and the ignition key is turned to the ON position.

JACKING POINTS

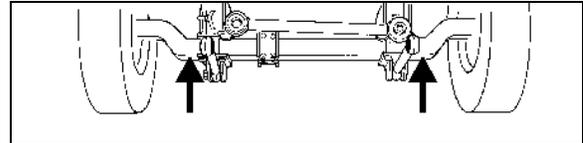
Twelve jacking points are located on the vehicle: three are located on each side of the frame and two are located under each axle. Refer to the following illustrations for the location of jacking points.



JACKING POINTS ON FRAME

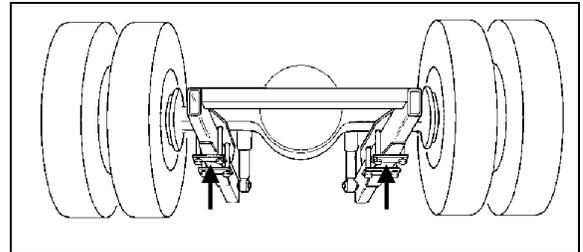
18480

Warning: The suspension of the vehicle must be in the normal ride position before jacking.



JACKING POINTS ON FRONT AXLE

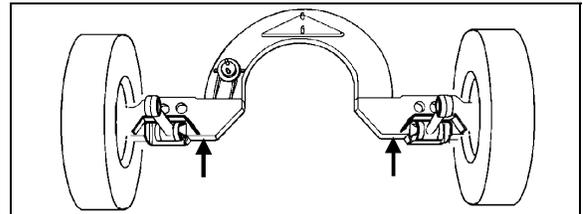
10005



JACKING POINTS ON DRIVE AXLE

OEH3B762

Warning: Always unload or retract the tag axle before jacking the vehicle from the front and drive axle jacking points to prevent damage to suspension components.



JACKING POINTS ON TAG AXLE

OEH3B764

Warning: The jacking points on the tag axle must be used for raising the tag axle only.

Several kinds of hydraulic jacks can be used. Only jack at the specified jacking points. Jack must support the following weight:

Front axle: 20,000 lbs. (9 100 kg);

Drive axle: 40,000 lbs. (18 200 kg).

Warning: Do not jack vehicle with passengers inside. Coach weight depends on equipment and cargo within. Check before jacking.

HYDRAULIC JACK

To raise: turn release valve clockwise. Insert handle in socket and raise by pumping.

To lower: remove handle and turn the release valve slowly counterclockwise.

Always keep ram and extension screw retracted when jack is not in use.

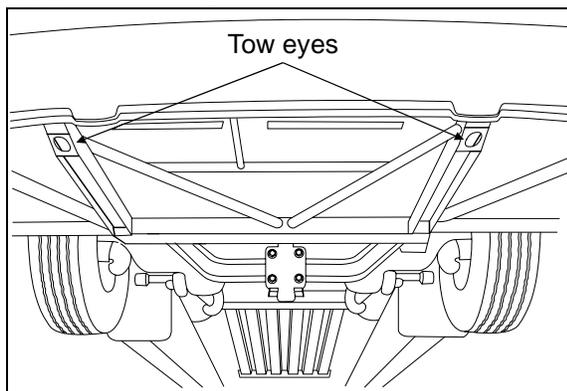
Service: Check oil level when jack fails to raise to full height. Lower ram completely with release valve open and jack in upright position, remove filler plug and refill to level of filler hole with hydraulic jack oil. Never use brake fluid.

Warning: Jack is intended for lifting only. Do not get under the vehicle or load for any reason unless it is properly supported with safety stands and securely blocked.

Warning: Do not load jack above rated capacity. Prevent "side loading", make sure load is centered on ram. Do not push or tilt load off jack.

TOWING

To prevent damage to the vehicle, use the two tow eyes located under the back bumper and/or fixed to the vehicle frame between the front axle and the front bumper. Use only a solid link tow bar and a safety chain to tow the vehicle. If required, connect an auxiliary air supply to the vehicle so the emergency/parking brakes don't apply while towing.



Warning: Do not carry passengers while the coach is being towed.

Caution: To prevent damage to the drive train components, disconnect axle shafts or driveshaft before towing. Do not attempt to push or pull-start the coach.

Caution: Make sure axle shafts or driveshaft are installed correctly after towing. Tighten axle shaft and driveshaft nuts to the correct torque settings. Do not invert shafts.

DAYTIME RUNNING LIGHTS

The low beams illuminate automatically at reduced intensity when the engine is started and the parking brake is released. The daytime running lights provide added safety by making the traveling vehicle more visible to other drivers.

The daytime running lights are not illuminated when:

- Engine is stopped;
- Parking brake is applied;
- The exterior lighting switch is turned to the second position.

Warning: Do not drive with the daytime running lights at night. For night driving, turn ON the headlights by depressing the exterior lighting rocker switch to the second position. The daytime running lights do not provide sufficient illumination for safe driving at night.

FOG LIGHTS

Fog lights provide better visibility in fog and precipitation. They improve visibility immediately in front of the vehicle. They also provide added safety.

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

COMPARTMENT LIGHTING

Baggage bays, front and rear service compartments and main power compartment lights are automatically turned ON when the corresponding compartment door is opened. A telltale light on the dashboard illuminates when a baggage bay door is open.

MUD FLAPS AND SPLASH GUARDS

Mud flaps are installed behind each front wheel and the tag axles. Mud flaps minimize dirt on the lower panels of the vehicle and prevent stones and debris from being thrown at vehicles travelling behind the vehicle. Splash guards may be installed behind each dual wheel of the drive axle to prevent stone projectiles from being thrown at the tag axle wheels.

SAFETY FEATURES AND EQUIPMENT

BACK UP CAMERA

An optional back up camera is available which provides the driver with visual assistance when backing-up.

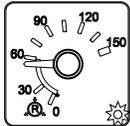
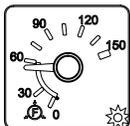
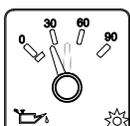
The TV monitor is mounted on the left side pillar. It switches *ON* automatically when the transmission is in the reverse (R) range.

BACK UP ALARM

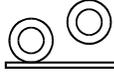
The back up alarm alerts pedestrians and other drivers when the vehicle is being backed-up. Take extra precautions whenever backing-up. If necessary, use a guide to provide directions when backing-up. Both the alarm and optional camera are automatically activated when the transmission is put in the reverse (R) range.

AUDIBLE ALERTS

In addition to the dashboard telltale lights, the vehicle is equipped with an alert system to provide audible indications to the driver of the conditions given in the following table.

Visual Indication	Audible Alert	Condition
 06228	Yes	Air pressure in primary system below 66 psi (860 kPa).
 06227	Yes	Air pressure in secondary system below 66 psi (860 kPa).
 06229	Yes	Engine oil pressure below 50 psi (345 kPa).
 06231	Yes	Coolant temperature above 223 °F (106 °C).
CHECK TRANS  06282	Yes	Gear changing inhibited.
None	Yes	Reverse gear engaged.
 06288	Yes	Fire in engine compartment.

SAFETY FEATURES AND EQUIPMENT

Visual Indication	Audible Alert	Condition
 06271	Yes	Tag axle retracted.
 06448	Yes	Kneeling down.
None	Yes	Engine OFF but parking brake not applied.
 06309	Yes	Major problem detected by engine.
 06273	Yes	Outside temperature close to water freezing point.
 06292	Yes	Transmission fluid too hot.
 06299	Yes	Wheelchair lift access door is ajar but the parking brake is not applied

CARE AND MAINTENANCE

CLEANING

The cleaning information provided in this section is regarded as recommended cleaning practices. Cleaning results may vary depending on the condition of the stain. Always clean stains promptly for best results.

Note: Use only approved cleaning products such as Prevost A.P.C., all purpose cleaner (Prevost # 683664). Never use stain protection products on new fabrics. To prevent permanent staining of fabrics, clean stains soon after they occur. Incorrect treatment of stains can worsen them. Get help from a cleaning specialist to remove stubborn stains.

Caution: Custom fabrics and materials may require different cleaning and maintenance practices. Consult your converter.

SEAT UPHOLSTERY

Firmly beat the fabric with a blunt object, such as a wooden paddle, to release dust and dirt. Vacuum the seat fabric in the direction of the stitching using an upholstery nozzle.

Note: The abrasive nature of dirt and grit will reduce upholstery life expectancy. Vacuum regularly.

Removal Of Stains And Marks

Depending on the nature of the stain, apply one of the two methods explained below to remove stains and marks on wool plush.

Method One:

1. Apply a nonflammable solvent (Trichloroethylene) to stained area with a clean, white absorbent rag;
2. Clean stain by starting at the outer edges of the stain and working in toward the center;
3. Blot affected area frequently with a clean, dry absorbent cloth to prevent stain rings caused by excess solvent.

Warning: Use solvents in a well ventilated area. Open all windows and doors.

Method Two

1. Wet the stain with a solution of household detergent and lukewarm water. Do not soak the stain;
2. Rub the stain with a damp cloth;

3. Rinse cloth after each application.

Caution: Do not use soap, soap powder, ammonia, soda, bleach or cleaning products containing any of these compounds.

Beverage Stains

Remove beverage stains by following method one. If stain persists, repeat method one using methylated spirits instead of solvent.

Alcoholic Beverage Stains

Remove alcoholic beverage stains by wetting the stain with water, then cleaning following method two.

Burns

Scrape burnt area using a knife or razor blade then clean following method two. Consult an upholstery specialist when dealing with extensive burns.

Cosmetic Stains

Remove stains left by cosmetics by following method one then method two.

Ink Stains

Remove ink stains following method two. If stain persists, apply a warm oxalic acid solution. Rinse with water.

Blood, Urine Or Vomit Stains

Remove such stains by following method two.

Copying Ink - Ball-Point Pen Ink

Treat with methylated spirits, blotting frequently to avoid spreading stain, followed by method two.

Marking Ink (Felt-tip Pens)

Treat with Methyl-Ethyl-Ketone (MEK) followed by method two.

Oil, Grease And Paint

Remove excess using a knife. Treat with method one followed by method two. If stain persists, repeat procedure.

CARE AND MAINTENANCE

Rust Stains

Remove rust stains by following method two. Apply a warm oxalic acid solution to stained area. Rinse with water.

Tar

Soften tar with benzene, then treat using method one followed by method two.

Chewing Gum

Soften gum with cyclohexane. Carefully scrape off stains using a sharp knife or razor blade.

PLASTIC AND VINYL

Clean plastic and vinyl trim using a clean damp cloth or sponge. For vinyl trim marks, use a lukewarm all purpose cleaner or a mild saddle soap. Remove water spots and soap traces using a clean damp cloth or sponge. Dry with a clean soft cloth.

Remove grease, tar or oil stains with a clean cloth or sponge and an all purpose or solvent-type vinyl cleaner.

Apply a colorless vinyl or leather protective product to maintain the luster and pliability of the plastic or vinyl surface.

WINDOWS

Clean the inside of the windows with a solution of one part vinegar to ten parts water.

WINDSHIELD

To prevent windshield wiper streaking, keep silicone sprays away from windshield. Remove road film and wax build-up from windows with lukewarm soap and water or with an alcohol-based cleaning agent. If a chamois is used to dry and polish glass, use it exclusively for that purpose.

Wiper Blades

To avoid tearing frozen wiper blades, loosen them before removing. Remove and clean wiper blades periodically with an alcohol-based cleaning solution. Clean wiper blades using a sponge or soft cloth.

STAINLESS STEEL

Use a stainless steel cleaner and follow the manufacturer's instructions. Stainless steel cleaning solution may be ordered from Prevost Car Inc. quoting part number 68-0356.

FORMICA

Remove stains on Formica surfaces with a household detergent, methylated spirits or mineral turps. Clean with a mild abrasive and water solution if stain persists.

CARPET

Vacuum carpets regularly to prolong carpet life.

RUBBER COMPONENTS

Use only pure water or glycerin to clean stains on rubber components.

Caution: *Never use solvents on rubber components.*

FLOOR CLEANING

Clean vinyl floors with a quality nonionic detergent cleaner. Follow the manufacturer's recommendations for cleaning.

Remove any excess detergent solution using a wet/dry vacuum or mop. Rinse floor with a solution of one part Clorox to ten parts warm water.

Polish dry floor using a high-speed buffer and a smooth red 3-M polishing pad.

Mop floor periodically with a solution of 5 per cent Clorox in warm water.

Note: *For custom or special floor covering materials, consult the manufacturer or your converter for information on how to clean and maintain these types of floors.*

EXTERIOR SURFACES

Frequent washing and waxing of the vehicle exterior will help protect the finish and luster. The paint finish is attacked by the abrasive effects of airborne particles and corrosive pollutants.

Before washing the exterior of the vehicle, close the fresh air dampers using the "REC" button located on HVAC control panel. Install keyhole protectors to prevent water from penetrating. Rinse vehicle with water to remove all loose dirt.

Wash vehicle using a quality brand car wash soap. Follow manufacturer's recommendations for cleaning. Rinse well with water.

The vehicle exterior should be cleaned, waxed and buffed when water droplets no longer form on the painted surfaces.

Caution: Hot water can damage paint. Keep water cool or lukewarm.

Caution: Make sure cleaning solutions are not harmful to painted surfaces. Read the manufacturer's instructions before using.

Caution: Do not spray water jet directly into fresh air inlet dampers.

Caution: Do not aim high pressure water jet at radiator or condenser doors. This could damage the fins.

To prevent corrosion, remove caked-on dirt and road salt from the vehicle underbody using a high pressure water jet. Clean wheel housings, bumpers, muffler, tailpipe and brackets.

Carry out corrosion prevention cleaning at least twice a year. Spray underneath of the vehicle and let soak before cleaning. Let engine and exhaust system cool down before cleaning.

Tar Or Oil

Remove tar or oil as soon as possible with an approved automotive tar and oil remover or turpentine. Thoroughly clean area with car wash soap and water. Let dry, then wax.

Insects

Remove insect stains as soon as possible with lukewarm soap and water or insect remover.

Tree Sap

Remove tree sap or bird droppings with lukewarm soap and water. Do not allow to harden.

LAVATORY MAINTENANCE

Flush water in the lavatory is recirculated from the sump tank (if two sump tanks are installed, the top tank is the main tank and the bottom one becomes the auxiliary sump tank). When the main sump tank water is too soiled to be recirculated, the driver can dump it into the optional auxiliary sump tank until a suitable dump location can be reached. The main sump

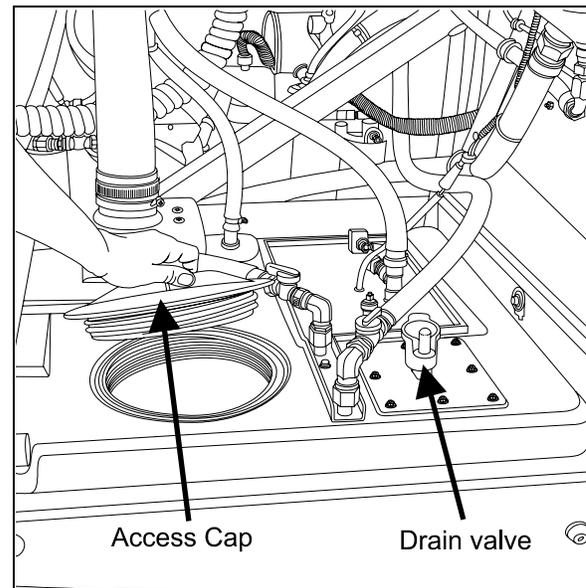
tank is then filled with clean water and the process continues.

The optional top tank contains about 13 gallons (50 liters) and the lower tank contains about 26 gallons (100 liters).

Note: The fresh water tank also drains into the sump tank. One must take into account this fact to avoid an overflow.

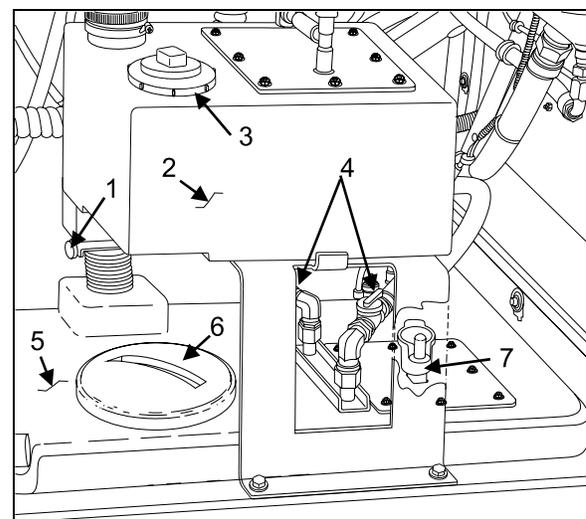
Routine draining and filling of lavatory tanks should be performed by maintenance personnel only, and should be done before parking the coach overnight in freezing temperatures.

The sump tank may be equipped with a heating element which permits circulating coolant fluid through the tank in cold weather. When not needed, close the valves to bypass the system.



SINGLE SUMP TANK OPTION

23294A



DUAL SUMP TANK OPTION

23295

CARE AND MAINTENANCE

1. Main sump tank drain valve;
2. Main sump tank
3. Main sump tank access cap;
4. Auxiliary sump tank heating element valves;
5. Auxiliary sump tank
6. Auxiliary sump tank access cap;
7. Auxiliary sump tank drain valve.

FILLING THE SUMP TANK

Fill the sump tank through the access hole and throw in a packet of commercial toilet deodorant (Prevost part #900329).

DRAINING THE SUMP TANK

When recirculating water in the toilet is soiled, drain the sump tank. If equipped with the optional auxiliary sump tank, drain the main sump tank contents into the auxiliary tank by opening the knife gate valve under the tank. Perform the filling procedure of the main tank.

DRAINING THE AUXILIARY SUMP TANK

To drain the auxiliary sump tank contents, remove the cap located underneath the tank then turn the drain valve lever counterclockwise about eight or nine turns and pull the lever up. Remove the access cap and flush tank with clean water. To close, push the valve down on its seat then turn the drain valve lever several turns clockwise until the rubber bladder seals the drain hole. Reinstall both caps.

Caution: Lavatory tanks should be serviced only at suitably equipped stations.

Note: It is unlawful to dump sump tank contents in any location other than those designated as such.

When a complete tank draining is required, clean main tank by repeating the draining and filling operations while leaving the auxiliary sump tank drain valve opened. Close valves and drop in a packet of commercial toilet deodorant (Prevost part #900329) in toilet before starting final filling of the main tank.

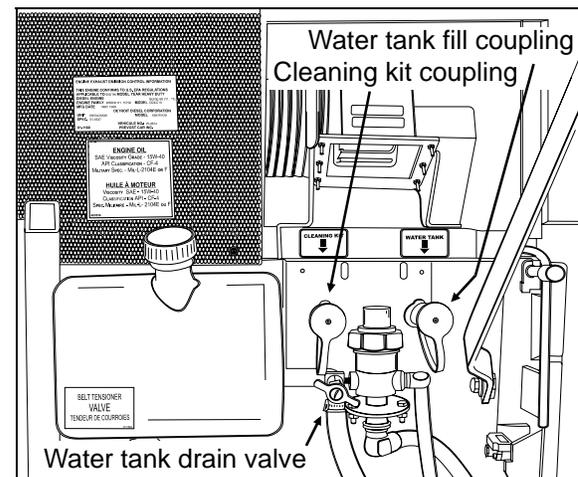
Warning: The toilet deodorant contains compounds which can be very irritating to skin. Use rubber gloves when handling and then clean toilet seat.

Caution: When cold weather is expected, both sump tanks must be drained if the coach is parked overnight or for an extended period of time.

Note: Due to the heat it produces, there is less risk of freezing in the tanks when the engine is operating.

Note: New coaches are delivered with the sump and fresh water tanks empty. Fill with water before putting the coach in service.

FRESH WATER RESERVOIR



ENGINE COMPARTMENT

23209

Water from the fresh water reservoir supplies the washbasin in the lavatory.

Warning: Do not drink water from the fresh water reservoir.

Filling The Fresh Water Reservoir

Connect the fresh water supply hose to the fresh water reservoir fill connection located in the curb-side engine compartment. The fresh water tank contains about 17 gallons (66 liters). Fill the reservoir until the overflow tube leaks, signaling that the reservoir is full.

Warning: Never put antifreeze in fresh water reservoir; antifreeze is toxic.

Warning: If reservoir has not been drained for an extended period of time, draining and filling operations must be repeated three (3) times in order to clean reservoir and eliminate contaminated water.

Draining The Fresh Water Reservoir

The fresh water reservoir can be drained by simply opening the drain cock. Don't forget to close the cock when draining is complete.

Note: The fresh water reservoir may be equipped with an optional thermal valve which is set to open at about 35°F, thereby automatically draining the reservoir in near-freezing temperatures.

CLEANING CABINET

A hose connection and valve is located behind a small door in the top curbside corner of the rear lavatory wall. It can be used to attach a garden hose for lavatory cleaning. To use, connect a fresh water supply to the connection in the engine compartment, identified as "Cleaning Kit", located next to the fresh water reservoir fill coupling.

To prevent freezing during cold weather, drain the hose after every use.

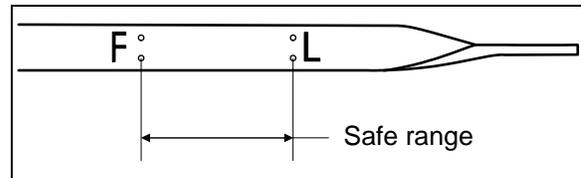
FLUID LEVEL VERIFICATION

Periodic inspection of oil and fluid levels is the most economical and easiest way to help your vehicle perform at its best. Rigorous oil level inspection and replacement will greatly help minimize expensive and unscheduled repairs.

ENGINE OIL LEVEL

Check engine oil level when engine is still warm and with vehicle parked on a level surface. Shut OFF engine and wait at least 10 minutes for oil to drain into oil pan before checking. Check engine oil level daily or before each trip. Add oil as required. Do not overfill. Remove dipstick, wipe clean and fully reinsert to ensure an accurate reading. Remove dipstick and check engine oil level.

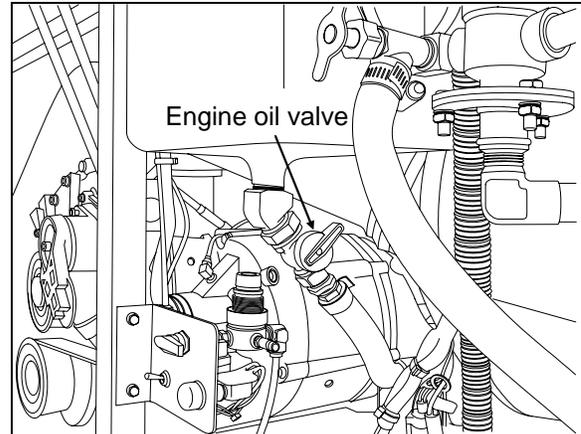
The oil level must be maintained between the two marks indicated on the dipstick. Do not let the oil level drop below the L mark. Add oil by opening the oil reserve tank drain cock or through the oil filler pipe. Use the markings on the tank to check the quantity of oil added. Close the oil reserve tank drain cock or oil filler cap after adding oil. Recheck the oil level. Do not let the oil level go above the F mark on the dipstick.



ENGINE OIL LEVEL DIPSTICK

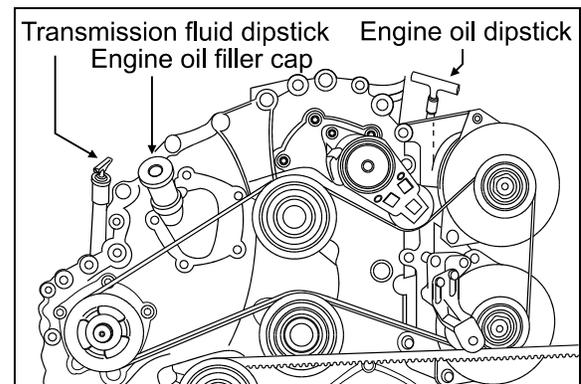
01027

Caution: Keep engine oil level between "L" and "F" on dipstick. Do not overfill. Check when refueling.



ENGINE COMPARTMENT

01050



ENGINE COMPARTMENT

01091

TRANSMISSION FLUID LEVEL

The transmission fluid level dipstick is accessible through the engine compartment rear door and is located on the left side of the engine.

To check the transmission fluid level, a "cold check" and a "hot check" must be performed. A cold check must be made when the transmission fluid is between 60°F and 120°F (16°C and 50°C).

Note: Perform the cold check first to verify the transmission fluid level before performing the hot check.

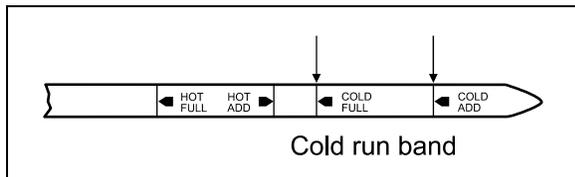
CARE AND MAINTENANCE

Warning: To prevent personal injury, do not service transmission wearing loose clothing. Stand clear of the engine and rotating components while checking the oil level.

To prevent dirt and foreign matter from entering the transmission, clean the end of the oil fill tube before removing dipstick. To remove dipstick, unscrew filler cap approximately three turns and pull out dipstick.

Cold Check

Run the engine until the transmission fluid temperature is between 60°F and 120°F (16°C and 50°C). With the engine idling, make sure the parking brake is applied and the transmission is in neutral (N). Remove and wipe the dipstick with a clean cloth. Check oil level. If the oil level is within the COLD RUN band, the oil level is correct and a hot check can be performed. If the oil level is on or below the lower line of the COLD RUN band, add oil until the level lies within the COLD RUN band. If the oil level is above the COLD RUN band, drain oil until the level is within the band.

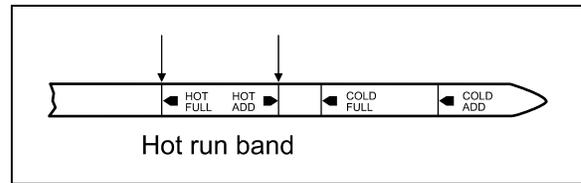


TRANSMISSION FLUID LEVEL DIPSTICK 07006

Caution: The oil level rises as oil temperature rises. Do not add oil above the "cold run" band before the transmission reaches 180°F to 220°F (82°C to 104°C).

Hot Check

Make sure the transmission fluid temperature is between 180°F and 220°F (82°C and 104°C) before performing the hot check. Run the engine between 1,000 and 1,200 RPM for approximately one minute to purge air from the system. With the engine idling and the parking brake applied, shift transmission from forward (D) to reverse (R) and back into neutral (N) to fill clutch cavities with oil. Remove and clean dipstick, then check oil level. If the oil level is on or under the lower HOT RUN line, add just enough oil to bring up the level to the middle of the HOT RUN band.



TRANSMISSION FLUID LEVEL DIPSTICK 07006

Replace dipstick and tighten the filler tube cap until the rubber seal is correctly seated.

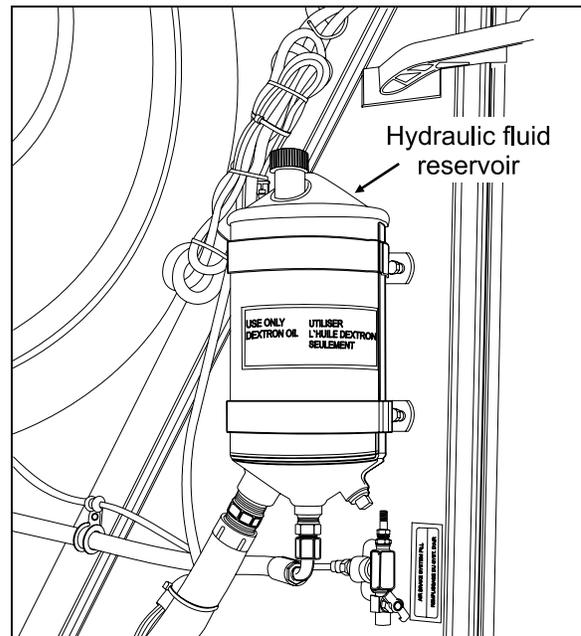
Caution: Do not overfill transmission fluid reservoir. Severe damage may result.

Caution: Do not mix fluid types or brands because of possible incompatibility.

Caution: Use clean fluid and containers when filling transmission. Never use containers that have contained water or anti-freeze (Glycol).

POWER STEERING FLUID LEVEL

The coach is equipped with a power steering system. The hydraulic fluid tank is located in the engine compartment.



ENGINE COMPARTMENT 14043

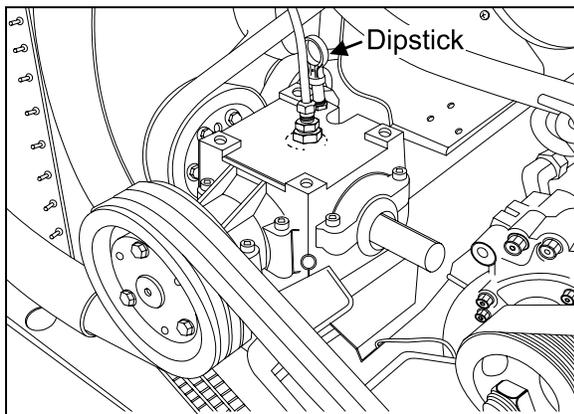
Check fluid level as follows:

1. Stop engine, open engine compartment and place rear start switch to OFF position;
2. Unscrew and remove the dipstick located on top of the fluid tank and wipe with a clean rag;
3. Replace dipstick in tank, then remove to check fluid level;

4. Add hydraulic fluid until it reaches the FULL mark on the dipstick (use Dexron II, Dexron IIE, Dexron III or Mercon fluid type);
5. Replace and tighten dipstick;
6. Place engine rear start switch to *NORMAL* position. Close engine compartment door.

RADIATOR FAN GEARBOX OIL LEVEL

The radiator fan is belt-driven by the engine crankshaft pulley through a gearbox and drive shaft. A dipstick located on top of the gearbox is used to check the radiator fan gearbox oil level.



ENGINE COMPARTMENT 05062

Check radiator fan gearbox oil level as follows:

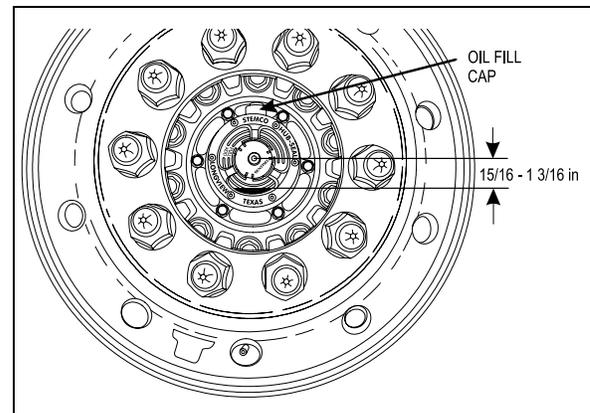
1. Stop engine, open engine compartment and place battery master switch to the *OFF* position;
2. Open engine compartment door and place engine starter switch to *OFF* position;
3. Remove the dipstick located on the top of the gearbox and wipe with a clean rag;
4. Insert dipstick in gearbox case, then remove again to check mark;
5. If necessary, add MOBIL SHC 630 synthetic lubricant (Prevost #180217), through the oil dipstick tube or vent plug, until the level reaches the "FULL" mark;
6. Reinsert the dipstick;
7. Place engine rear start switch to *NORMAL* position. Close engine compartment door;
8. Set battery master switch to *ON* position.

WHEEL BEARING OIL LEVEL

If oil lubricated bearings are used, the front and tag axle wheel bearings must be kept filled with differential oil to within 15/16" (maximum level) and 1-3/16" (minimum level) from the wheel centerline (24 to 30 mm). Refer to measurements in illustration below. Drive axle wheel bearings are lubricated by the differential oil. Maintain differential oil at correct level to ensure adequate lubrication of drive axle wheel bearings at all times.

If oil is to be added, use general purpose gear lubricant SAE 85W/140 (API spec. GL5). Oil must be added by removing the oil fill cap on side of hub. To check oil level after vehicle has been driven, wait at least 15 minutes to ensure that oil has settled.

Note: Do not overfill, too much oil will cause bearing overheat and eventually seal and cap failure.



WHEEL HUB 13026

On vehicles equipped with grease lubricated wheel bearings, pack with wheel bearing grease.

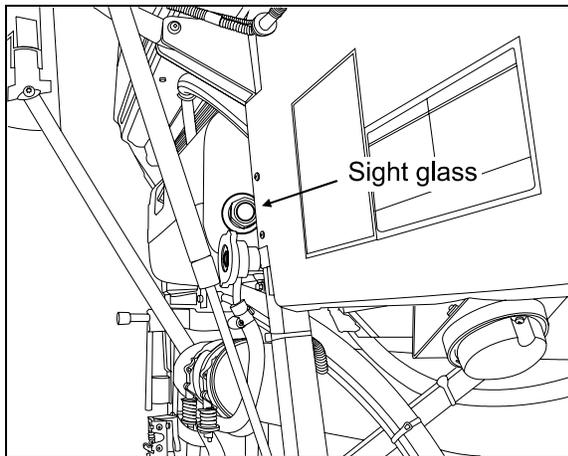
Note: It is more precise to measure the oil level in the wheel hubs according to the instructions above than to refer to the indicator lines on the hubs.

Caution: The wheel bearing hub has a small vent hole in the center to prevent overpressure in the bearing housing. Clean occasionally by inserting a needle.

COOLANT FLUID LEVEL

Coolant level is correct when coolant is visible through the surge tank sight glass when cold. If coolant level is low, fill system with the same 50-50 mixture normally used.

CARE AND MAINTENANCE

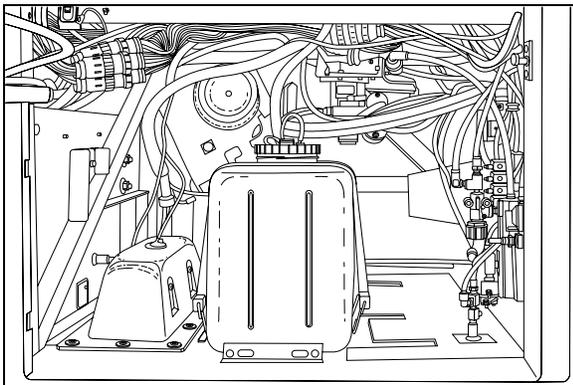


SURGE TANK IN ENGINE COMPARTMENT 05066

Warning: Hot engine coolant is under high pressure. Allow engine to cool down before adding coolant.

WINDSHIELD WASHER RESERVOIR

The windshield washer reservoir is located in the front service compartment door. The reservoir has a capacity of 5 US gallons (19 liters). Check fluid level regularly.



WINDSHIELD WASHER FLUID RESERVOIR 14050

The spray jets are located on the windshield wipers and are angled to spray towards the center of the windshield.

OTHER VERIFICATIONS

It is good practice to regularly inspect the vehicle for signs of component wear and to perform safety and maintenance routines.

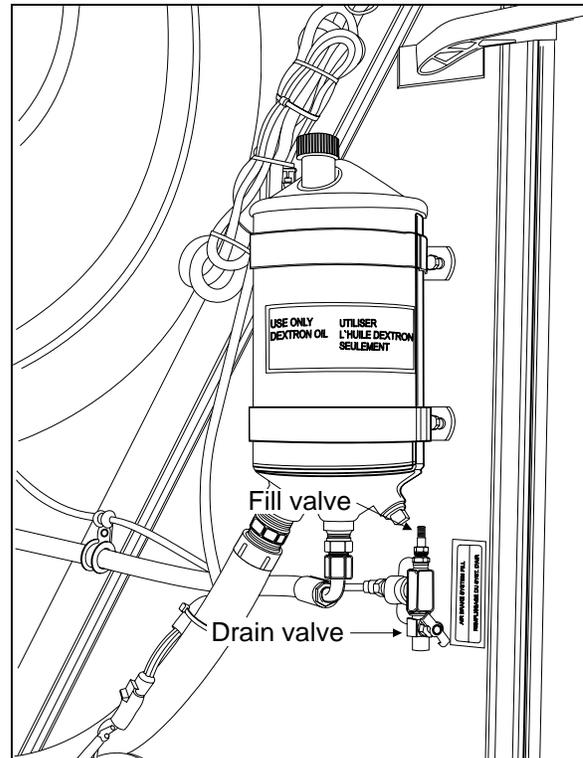
AIR TANK PURGE

The vehicle may be equipped with up to six air tanks. Purge accessory and wet air tanks before each trip. The primary and secondary air tanks must be purged at every oil change. Oil

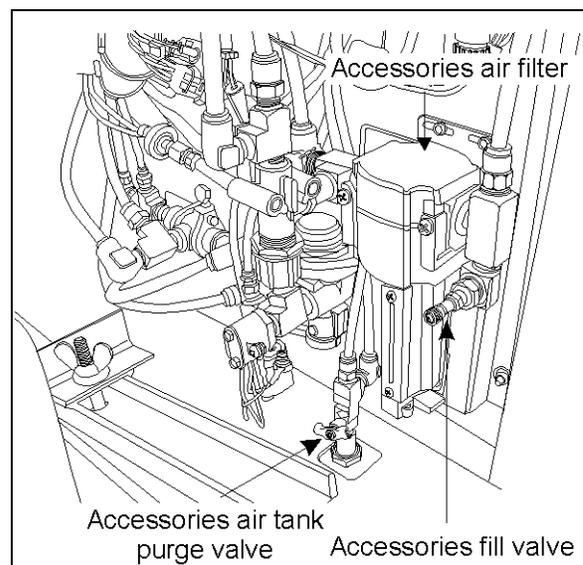
changes should be scheduled at least every 12,500 miles (20 000 km).

The accessory air tank drain cock is accessible from the front service compartment. The wet air tank drain cock is accessible from the engine compartment. All air tanks are equipped with a drain cock underneath the tank. Refer to the "Lubrication and Service Check Point Chart" in this chapter for tank locations.

Drain tanks by turning cocks counterclockwise.



ENGINE COMPARTMENT 12148



FRONT SERVICE COMPARTMENT 12130

FIRE EXTINGUISHERS

Inspect fire extinguishers monthly to insure operation in emergency situations.

On extinguishers with a pressure gauge, the needle should be in the green or *NORMAL* range. Refill or replace extinguisher if pressure is below normal;

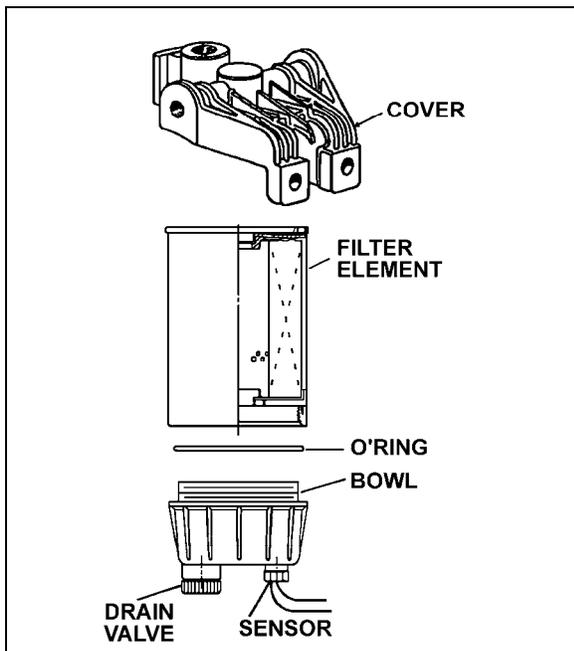
Check that seal on handle is intact;

Check that hose nozzle is in good condition and the nozzle is free of obstructions;

Keep fire extinguishers clean.

FUEL FILTER/WATER SEPARATOR

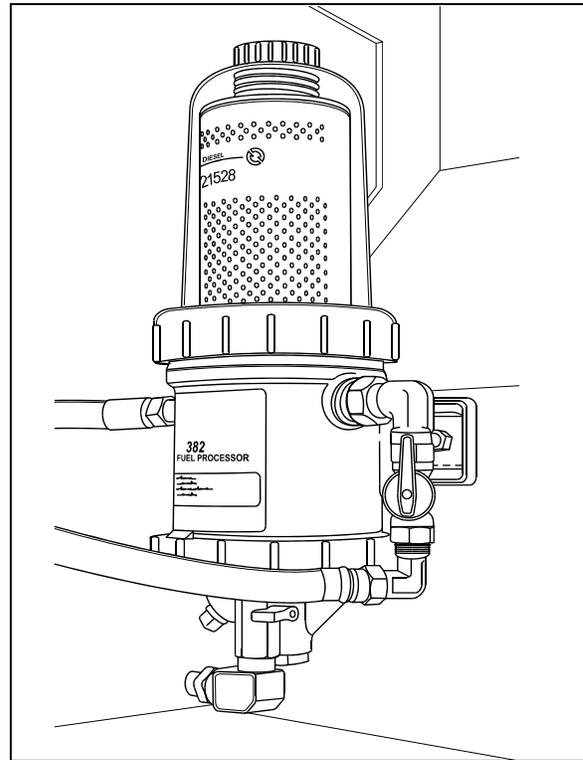
An optional fuel filter/water separator may be installed in the engine compartment in place of the primary fuel filter. It is used to prevent water from entering the fuel system. The water separator should be drained periodically or when the telltale light on the dashboard illuminates. To drain water, loosen the drain valve below the separator. Close the drain valve when finished.



FUEL FILTER/WATER SEPARATOR 03025

The optional Fuel Pro 382 diesel fuel filter system consists of a permanently mounted fuel processor, a replaceable filter element, a filter element cover and collar and a fluid filter base assembly. This system is installed between the fuel tank and the fuel pump and is designed to be the only fuel filter in the fuel system. The filter serves as a water separator as well as a fuel

filter. To drain water, loosen the drain valve below the separator one quarter turn. Close the drain valve when finished.

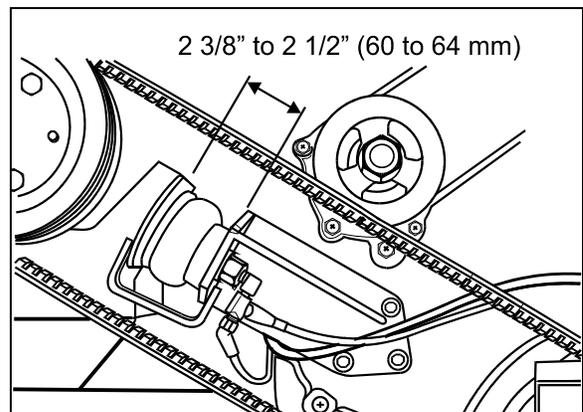


DAVCO FUEL PRO 382 INSTALLATION 03032

BELT TENSION ADJUSTMENT

The radiator transfer fan and air conditioning compressor are driven by V-belts.

Belt tensioning is applied through air bellows which are adjusted by an air pressure regulating valve mounted in the engine compartment, right behind the belt tensioning pressure control valve. The correct pressure of 55 psi (380 kPa) is set at the factory. Correct inflation of bellows is 2 3/8" to 2 1/2" (60 to 64 mm). Periodically verify the pressure at the regulating valve using a pressure gauge and correct if necessary.

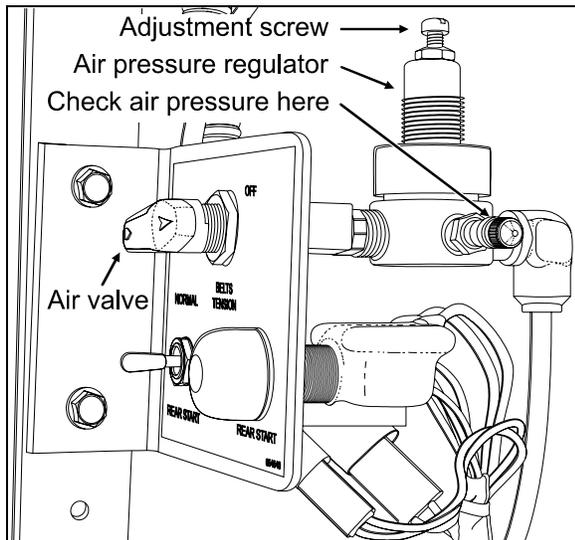


CARE AND MAINTENANCE

AIR BELLOWS

01059

For belt replacement, air pressure must be released from bellows by means of the belt tensioning pressure control valve. Turn control valve handle clockwise to release pressure from the air bellows. Before handling, set the rear start switch to OFF and observe all applicable safety precautions.



BELT TENSION AIR REGULATOR AND VALVE

01058

Turn control valve handle counterclockwise to its initial position to reapply pressure to the air bellows.

- Refer to the Parts Manual, Maintenance Manual or "Service Bulletins" for recommended belt sizes and tension settings;
- Periodically inspect belt and pulleys for wear or damage;
- Do not treat belts with any compounds. Keep belts dry.

BACK UP CAMERA

The optional back up camera is located on the rear cap. As soon as the transmission is put in reverse (R), back up camera and monitor are turned on automatically. To clean the camera's protective glass, spray with soapy water. Wipe with a clean damp rag or wiper blade.

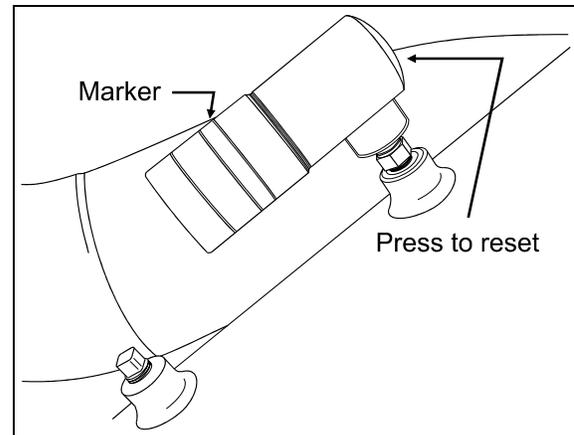
Warning: To avoid injury, do not clean camera with transmission in reverse (R). Shut off engine and apply parking brake before cleaning.

Caution: To prevent scratches to the camera protective glass, do not wipe with dry rag. Use a clean damp rag.

AIR FILTER RESTRICTION INDICATOR

An optional filter restriction indicator is used to monitor the vacuum level between the air filter and engine. A red marker is displayed when the air filter is clogged. When a red marker is displayed, the air filter must be replaced. Reset by pressing on the indicator's extremity.

The filter restriction indicator is located on the engine air intake duct.



RESTRICTION INDICATOR

01052

A/C AND HEATING SYSTEM AIR FILTERS

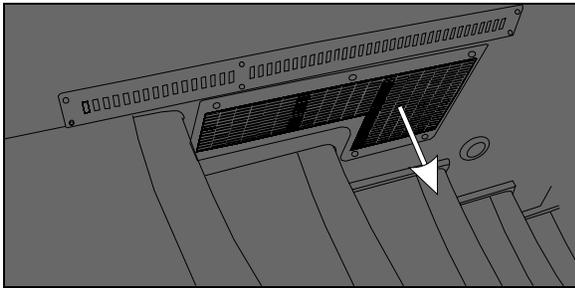
For maximum air conditioning and heating system efficiency, air filters should be inspected and cleaned as required in the maintenance schedule to ensure proper ventilation of the evaporator and heating radiator cores. To clean filters, remove lint using a nylon brush, back flush with water then dry with air.

Caution: Do not use a high pressure water jet to avoid damaging the filter.

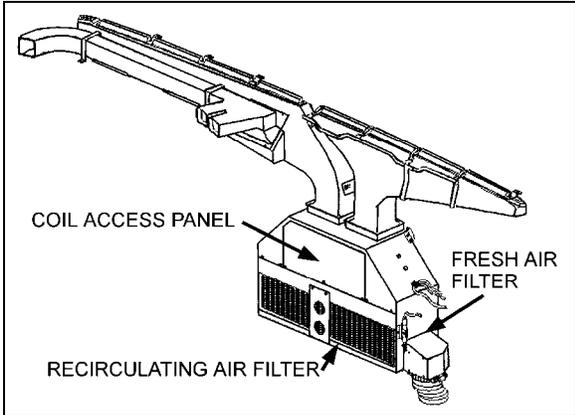
Caution: Be sure not to reverse the filters upon installation.

DRIVER'S AREA FILTERS

The driver HVAC system's air filters are located behind the front console. To gain access to the A/C filters, remove the grille located at the top step of the entrance door stairs. Remove the filters for cleaning or replacement.



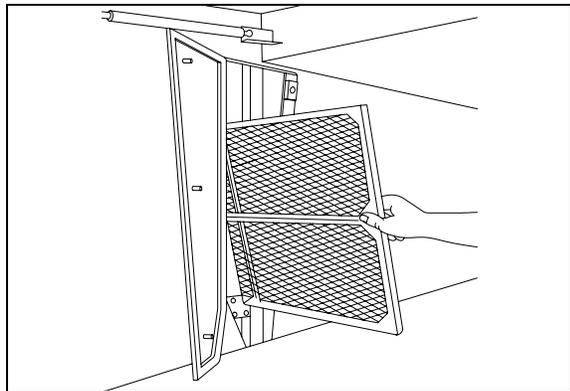
DRIVER'S AREA AIR FILTER REMOVAL 18505



DRIVER'S AREA AIR FILTERS 22171

CABIN AIR FILTER

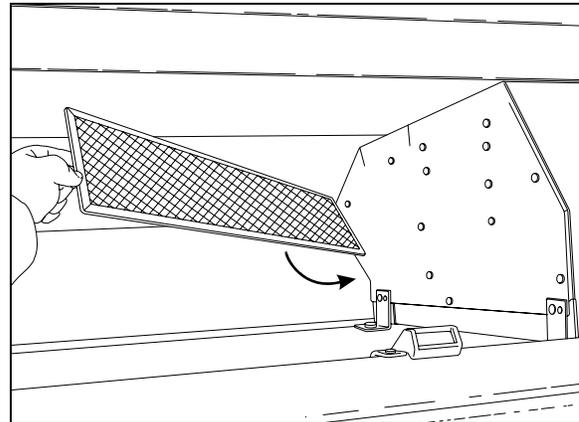
To access central HVAC system filter, open one of the two baggage compartment adjacent to the evaporator compartment. The filter is located behind an access door held shut by three retaining screws. Slide out the filter, clean or replace.



CABIN AIR FILTER 22100

Filters in the Overhead Compartments

Remove, clean or replace the air filter located behind each overhead baggage compartment fan.



OVERHEAD COMPARTMENT FAN AIR FILTER 22201

HOSE INSPECTION

Inspect hoses regularly to ensure efficient, economical and safe operation of the engine and related equipment.

LUBRICATION

Grease all lubrication points during scheduled maintenance. For heavy loads or extended use, lubricate more often. Refer to the Maintenance Manual, section 24 for information on lubrication.

ROUTINE INSPECTION

This inspection should be performed every working day.

WITH ENGINE STOPPED

Inspect hoses for leaks. Carefully inspect all fittings, clamps and ties. To prevent chafing, make sure hoses are not touching shafts, couplings, heated surfaces, sharp edges or other parts. Since hose clamps and ties can vibrate loose or fail over time, inspect frequently and tighten or replace as necessary.

Check for loose nuts and bolts. Visually inspect safety of compartment door latches. Test operation of all exterior lights.

Leaks

Check for leaks under vehicle and in compartments.

Correct leaking hoses immediately. Failure to correct leaks can cause severe damage to the equipment, as well as increase operating costs due to lost fluids. Treat fuel and oil leaks as an immediate fire hazard.

CARE AND MAINTENANCE

Warning: *Personal injury and property damage may result from fire caused by leaking flammable fluids.*

Hose Service Life

Hoses have a limited service life. Thoroughly inspect hoses annually. Look for surface damage or indications of twisted, worn, crimped, cracked or leaking lines. Replace damaged hoses immediately.

Hoses should be replaced during major overhaul or after a maximum of seven years service. Be certain replacement hoses match the original equipment manufacturer's specifications.

Wheels And Tires

Check for loose wheel nuts. Both aluminum alloy and steel wheel nuts should be tightened to 450 to 500 foot-pounds (610 to 680 N.m.) torque.

Keep the tires inflated to the recommended inflation pressure to prolong tire life and for safety.

Note: *Recommended tire inflation pressures are given in the "Coach Final Record", placed in the technical publications package supplied with the vehicle. The cold tire inflation pressures are on the Department of Transport certification plate located on the L.H. console besides the driver's seat. When special tires are installed by Prevost on a new vehicle, a special tire inflation chart is added next to the certification plate.*

Warning: *Do not exceed maximum inflation pressure. Incorrect tire pressure increases tire wear and could lead to loss of driving control because of reduced road handling. Check tire pressure regularly.*

Warning: *If replacement tires are different from those described on the certification plate, pressure must be adjusted as requested in the Tire and Rim Association Manual.*

Doors

Close all exterior doors and windows. Check for good tightness and fit.

Tools And Spares

Make sure the vehicle is equipped with a wheel nut wrench, door keys, spare belts, reflectors and jack.

Air System

To drain water from air and accessory tanks, open drain cocks. Close drains when completed. Refer to heading "Air Tank Purge" in this chapter.

Water Separator

To drain water separator, open drain valve. Close drain valve after draining.

Coolant Level

Check coolant level. Coolant level is correct when visible in the filler neck of the surge tank. If coolant level is low, fill system with 50-50 coolant-water mixture. Refer to the vehicle "Maintenance Manual", section 05 for more information.

Warning: *Hot engine coolant is under pressure. Do not attempt to open the coolant filler cap when the engine is hot. Allow engine to cool before adding coolant.*

Wheel Bearings

Check wheel bearing oil level in sight glass. Refer to heading "Wheel Bearing Oil Level" in this chapter.

Caution: *Check wheel bearing cover for overheating (especially after using the service brakes) during fuel stops by touching the wheel bearing cover.*

Windshield Washer Reservoir

Make sure windshield washer reservoir is full. For cold weather, use antifreeze windshield washer fluid.

Engine Oil

Check engine oil level during fuel stops. It is normal for diesel engines to burn some oil. If the oil level is low, refer to heading "Engine Oil Level" in this chapter.

Warning: *Check the engine oil level with vehicle parked on a level surface and with the parking brake engaged.*

Power Steering Oil Tank

Check steering oil level. Refer to heading "Power Steering Fluid Level" in this chapter.

Belts

Check for loose, worn or broken belts.

Belt Tension Adjustment

Check belt tension using a pressure gauge. Refer to heading "Belt Tension Adjustment" in "Other Verifications" section in this chapter.

Fire Extinguishers

Check fire extinguishers to make sure they are ready for operation. Refer to heading "Fire Extinguishers" in "Other Verifications" section in this chapter.

Emergency Exits

Verify emergency exits for correct operation.

Driver's Section

Adjust driver's mirrors and seat.

WITH ENGINE RUNNING**Leaks**

Walk around vehicle and listen for air leaks.

Turbocharger

Check for leaks and listen for unusual sounds coming from the turbocharger.

Automatic Transmission

Check automatic transmission oil level. Refer to heading "Automatic Transmission Fluid Level" in this chapter.

Gauges And Buzzers

Perform a telltale light test (see "Controls and Instruments" chapter). Make sure gauges are in normal operating condition. Indicator lights and buzzers should all be *OFF* before driving.

Fuel Level

Make sure there is enough fuel in the tanks.

Service Brake Test

Check for correct pressure build-up. Stop engine and check pressure gauge. Pressure loss should be imperceptible with engine stopped

and without brake pedal applied. Air loss should not exceed 3 psi/minute (21 kPa/minute) with engine stopped and brake pedal fully applied.

Parking Brake Test

Release parking/emergency brake. Pump service brake pedal until air pressure drops to 65 psi (448 kPa). Make sure the warning buzzer operates and that the emergency brakes apply (the control valve knob lifts up). Allow air pressure to reach 95 psi (655 kPa) before releasing parking brake.

Driving the vehicle while the parking brake is applied should not be possible.

FIRST SERVICE ON NEW VEHICLE

Note: Refer to Maintenance Manual for precise service schedule.

ENGINE OIL

Preliminary oil change is not required since the engine has been test-run at the factory. Change oil and filter every 12,500 miles (20 000 km) or once a year, whichever comes first.

ALLISON TRANSMISSION FLUID FILTER

Replace World transmission filter cartridges after the first 5,000 miles (8 000 km) and then according to the lubrication schedule at the end of this chapter.

COOLANT SYSTEM STRAINER

The coolant system strainer is designed to recover the soldering residues trapped inside the coolant lines during their initial assembly. Clean strainer after first 3,000 miles (5 000 km) and then every 50,000 miles (80 000 km). Refer to the Maintenance Manual under section 05: Cooling System.

Note: If soldering has been performed on cooling system, clean strainer after 3,000 miles (5 000 km).

GENERAL RECOMMENDATIONS

- Understand basic principles of vehicle operation;
- Always maintain the vehicle in good running condition;

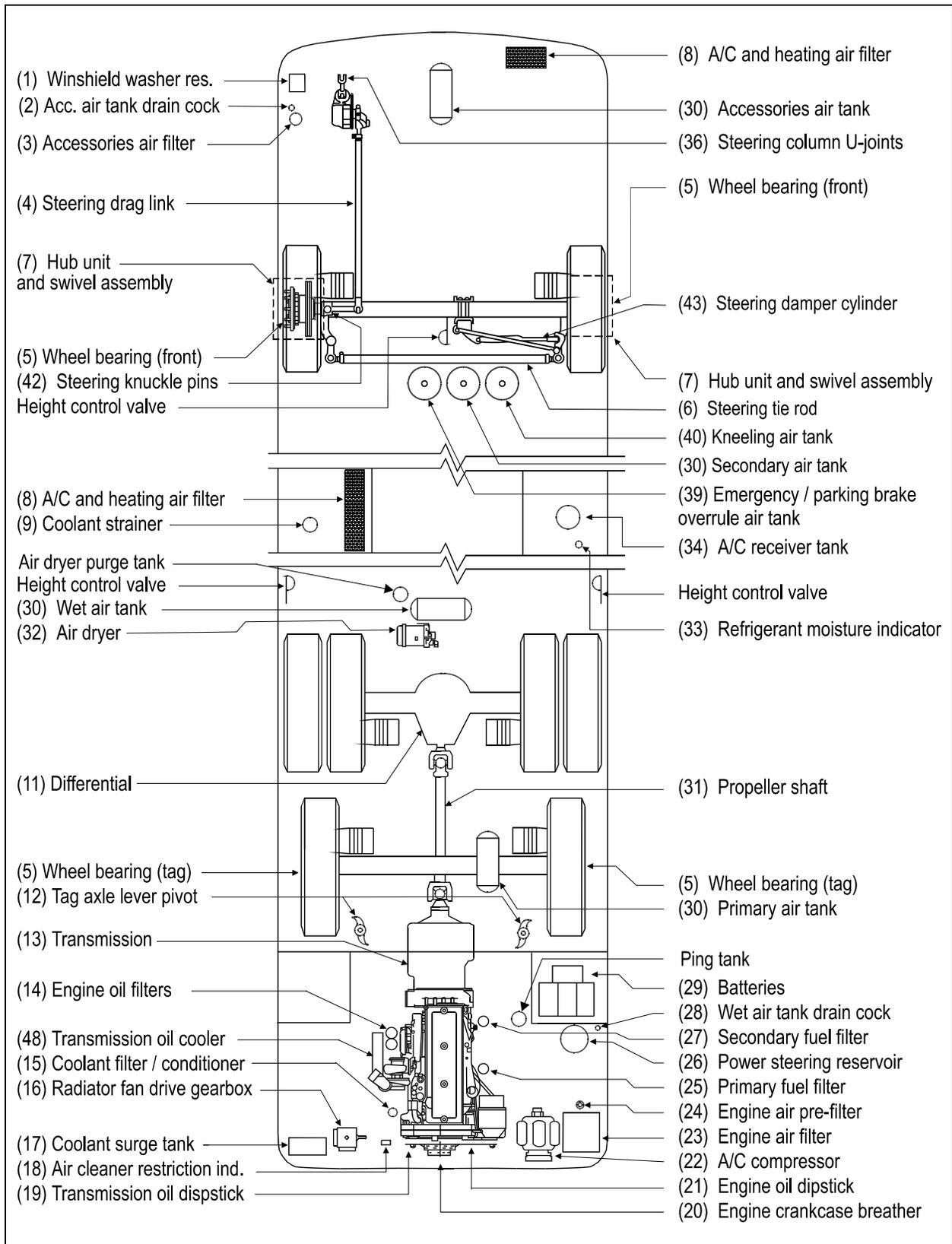
CARE AND MAINTENANCE

- Do not drive with low fuel. If the fuel tank runs dry, the engine will not start until the air is bled from the fuel system. Refer to "Maintenance Manual" for more information;
- Allow engine to run for at least two minutes at slow idle before shutting *OFF*;
- Engine should be at idle when shifting from neutral (N) to forward (D) or from neutral (N) to reverse (R);

Caution: *Fast idle should always be turned off before releasing the parking brake and putting the coach in gear. Driveline damage can result if the fast idle switch is always left on.*

- The automatic transmission does not have a park (P) position. Place transmission in neutral (N) position and apply parking brake when the vehicle is stopped. 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;
- Always follow the procedures described in this manual;
- Unless stated otherwise, shut off the engine before performing all servicing, lubrication and maintenance tasks;
- Do not attempt to push or pull-start the coach;
- Damage may result if towed with the axle shafts or driveshaft connected;
- Two chemical fire extinguishers are under the first row of passenger seats. In case of fire, immediately evacuate all occupants. Occupant safety is the first priority. Do not attempt to extinguish the fire if there is immediate danger or risk for personal injury;
- When driving on ice and snow, accelerate and decelerate gradually;

Warning: *Report all problems affecting passenger or driver safety to a Prevost service center or an authorized service center. Have problems corrected immediately.*



LUBRICATION AND SERVICING POINTS ON H3-41 AND H3-45 COACHES (TYPICAL)

24019

CARE AND MAINTENANCE

WALK-AROUND INSPECTION

It is compulsory to perform a basic visual inspection of key areas on the vehicle before every trip and to report any problem areas to your Prevost service center or a Prevost authorized service center. The following list is a reminder only and does not substitute items and procedures specified by local authorities.

Outside the Vehicle

ITEM*	DESCRIPTION
---	Check for leaks under vehicle and in engine compartment.
---	Check that baggage and service compartment doors are properly closed.
---	Inspect tires and wheels for correct tire pressure, wear or damage and for missing wheel studs and nuts.
1	Check windshield washer fluid level and add if necessary.
---	Check condition of windshield wiper blades.
---	Verify proper operation of all road lights, signal lights, brake lights, marker lights and back up lights; Replace light bulbs as required.
2, 28	Drain accumulated water in accessory and wet air tanks.

Engine Compartment

ITEM*	DESCRIPTION
21	Check engine crankcase oil level; Add if necessary.
13, 19	Check transmission fluid level (can be checked from push-button shift selector); Add if necessary.
26	Check power steering reservoir fluid level; Add if necessary.
17	Check coolant surge tank fluid level; Add if necessary.
25	Drain accumulated water in primary fuel filter/water separator (if equipped).
18, 23	Check air cleaner restriction indicator; Replace air filter when red signal locks in full view.

Inside the Vehicle

ITEM*	DESCRIPTION
---	Check for proper operation of the entrance door.
---	Check that emergency exit windows and roof escape hatches can be opened, then close all windows and hatches securely.
---	Verify proper operation of windshield wiper/washer.
---	Adjust mirrors for adequate rear view vision.
---	Start engine and check for proper operation of all gauges and indicator lights.
---	Check for proper operation of electric and air horns and back up alarm.
---	Perform a brake test. Check both primary and secondary pressure gauges.

* Item numbers refer to figures on lubrication and servicing points in this chapter.

LUBRICATION AND SERVICING SCHEDULE

Caution: On new vehicles, preliminary servicing is required. Refer to the heading "First Service on New Vehicle" in this chapter.

SERVICE EVERY 6,250 MILES (10 000 KM) OR TWICE A YEAR, WHICHEVER COMES FIRST			
ITEM*	DESCRIPTION	REMARKS	LUBRICANT &/OR PART**
23	Engine air filter	Inspect and clean, replace element if required.	Filter: #530197
24	Engine air pre-filter	Check discharge tube.	-----
22	A/C compressor	Check oil level, add if necessary.	Polyolester Oil
34	A/C receiver tank	Check refrigerant level, add if necessary.	HFC 134a
33	Refrigerant moisture indicator	Replace filter dryer unit according to moisture indicator (as needed).	Filter: #950262
11	Differential	Check oil level, add if necessary.	Multigrade gear oil
16	Radiator fan drive gearbox	Check oil level, add if necessary.	Mobil SHC 630 #180217
31	Propeller shaft	Grease one fitting on each universal joint and slip joint.	Multipurpose grease
12	Tag axle lever pivot	Grease one fitting on each pivot.	Multipurpose grease
4	Drag link ends	Grease one fitting at each end.	Multipurpose grease
6	Steering tie rod ends	Grease one fitting at each end.	Multipurpose grease
43	Steering Damper Cylinder	Grease one fitting at rod end.	Multipurpose grease
42	Steering Knuckle Pins	Grease two fittings per knuckle.	Multipurpose grease
---	Alternator Drive Belt	Check for wear and cracks.	-----

* Item numbers refer to figures on lubrication and servicing points in this chapter.

** See end of this section for lubricant and part number specifications.

CARE AND MAINTENANCE

SERVICE EVERY 12,500 MILES (20 000 KM) OR ONCE A YEAR, WHICHEVER COMES FIRST			
ITEM*	DESCRIPTION	REMARKS	LUBRICANT &/OR PART**
13	Allison transmission	Change fluid and filters (if containing non-TranSynd fluid).	Dexron-IIIE or Dexron-III
14	Engine oil filters	Change oil and filters.	Engine oil: SAE 15W40, API CG4 Filters: #510458
25, 27	Fuel filters	Change primary and secondary fuel filters (Fill with clean fuel before installation).	Primary: #510137 Prim. w/sep.: #531390 Secondary: #510128
15	Coolant filter/conditioner	Replace element.	Filter: #550630
17	Coolant surge tank	Test coolant solution.	-----
30, 39, 40	Air Tanks	Drain accumulated water from all tanks.	-----
8	A/C and heating air filters	Clean or replace two elements (twice a year).	Driver's: #871144 & 871147 Passenger's: #871051
---	Overhead compartment fan air filters	Clean or replace	Filter: #871159

SERVICE EVERY 50,000 MILES (80 000 KM) OR ONCE A YEAR, WHICHEVER COMES FIRST			
ITEM*	DESCRIPTION	REMARKS	LUBRICANT &/OR PART**
16	Radiator fan drive gearbox	Change oil.	Mobil SHC 630
26	Power steering reservoir	Replace oil and filter cartridge element.	Cartridge: #660987
5	Axle bearings	Repack with grease or refill with differential oil.	Multipurpose grease or differential oil
13	Allison Transmission	Change fluid and filters (if containing 100% TranSynd fluid only). [‡]	Fluid: TranSynd™ Filters: #571709
15	Coolant strainer	Check and clean, change cartridge if required. ^{‡‡}	Cartridge: #871029
20	Engine crankcase breather	Clean breather steel mesh.	-----
---	Hoses	Thoroughly inspect all hoses.	-----

* Item numbers refer to figures on lubrication and servicing points in this chapter.

** See end of this section for lubricant and part number specifications.

[‡] When the transmission contains a mixture of fluids (defined as the quantity of non-TranSynd fluid remaining in the transmission after a fluid change combined with the quantity of TranSynd required to fill the transmission to the proper level), perform the fluid and filter change at 25,000 miles (40 200 Km) or 1 year, whichever comes first.

^{‡‡} If soldering has been performed on the system, clean strainer after 3,000 miles (5 000 Km).

CARE AND MAINTENANCE

SERVICE EVERY 100,000 MILES (160 000 KM) OR ONCE EVERY TWO YEARS, WHICHEVER COMES FIRST			
ITEM*	DESCRIPTION	REMARKS	LUBRICANT &/OR PART**
11	Differential	Change oil; Clean breathers.	Multigrade gear oil
3	Accessories air filter	Change filter element.	Filter: #641252
32	Air dryer	Change cartridge.	Cartridge: #3097369
---	Bosch T1 alternators	Change the brushes as per "Repair and Testing Instructions for T1 Alternator 0120 69 552" annexed to section 06 of the Maintenance Manual.	-----

SERVICE EVERY 200,000 MILES (320 000 KM) OR ONCE EVERY FOUR YEARS, WHICHEVER COMES FIRST			
ITEM*	DESCRIPTION	REMARKS	LUBRICANT &/OR PART**
---	Bosch T1 alternators	Replace bearings as per "Repair and Testing Instructions for T1 Alternator 0120 69 552" annexed to section 06.	-----

MISCELLANEOUS SERVICE			
ITEM*	DESCRIPTION	REMARKS	LUBRICANT &/OR PART**
15, 17	Cooling System	Drain, flush and refill every two years or 200,000 miles (320 000 km) whichever comes first.	Engine coolant
29	Battery Terminals	Clean and coat terminals yearly.	Battery terminal coating
---	Discharge Tubes***	Every three months: Check condenser's discharge tubes (2) Check evaporator's discharge tubes (6) Check front discharge tubes (2).	-----

* Item numbers refer to figures on lubrication and servicing points in this chapter.

** See end of this section for lubricant and part number specifications.

*** Discharge tubes are rubber tubes located under vehicle.

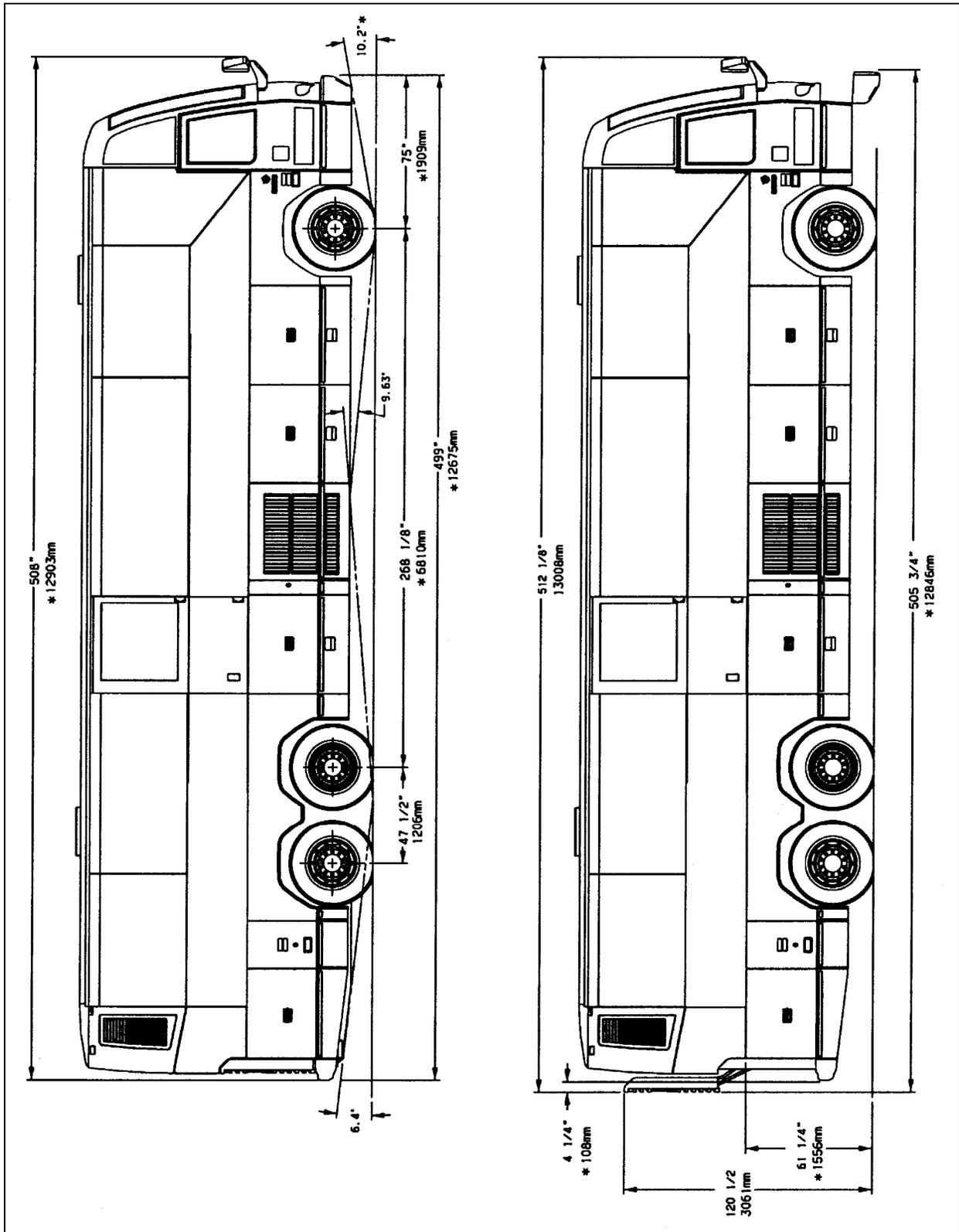
CARE AND MAINTENANCE

LUBRICANT SPECIFICATIONS

ITEM*	DESCRIPTION	SPECIFICATIONS
21	Engine oil	SAE Viscosity Grade: 15W40 API Classification: CG4
26	Power steering oil	Automatic Transmission fluid (Dexron-II or Dexron-III)
17	Engine coolant	Low silicate, ethylene glycol coolant 50% antifreeze/water solution is normally used Antifreeze concentration should be between 30% and 67%
22	A/C compressor oil	Polyolester Oil, HFC 134a compatible: Castrol SW-68 (POE) or equivalent
11	Differential oil	Multigrade gear oil meeting MIL-L-2105-D: 85W140 If temperature drops below 10°F (-12°C), 80W90 should be used, and below -15°F (-26°C), 75W90 should be used. (In extreme conditions or for better performance, full synthetic gear oil can be used.)
16	Fan gearbox oil	Mobil SHC 630
13, 19	Allison Transmission Fluid	Dexron IIE, Dexron III or Transynd
---	Multipurpose Grease	Good quality lithium-base grease: NLGI No.2 Grade is suitable for most temperatures NLGI No.1 Grade is suitable for extremely low temperatures

* Item numbers refer to figures on lubrication and servicing points in this chapter.

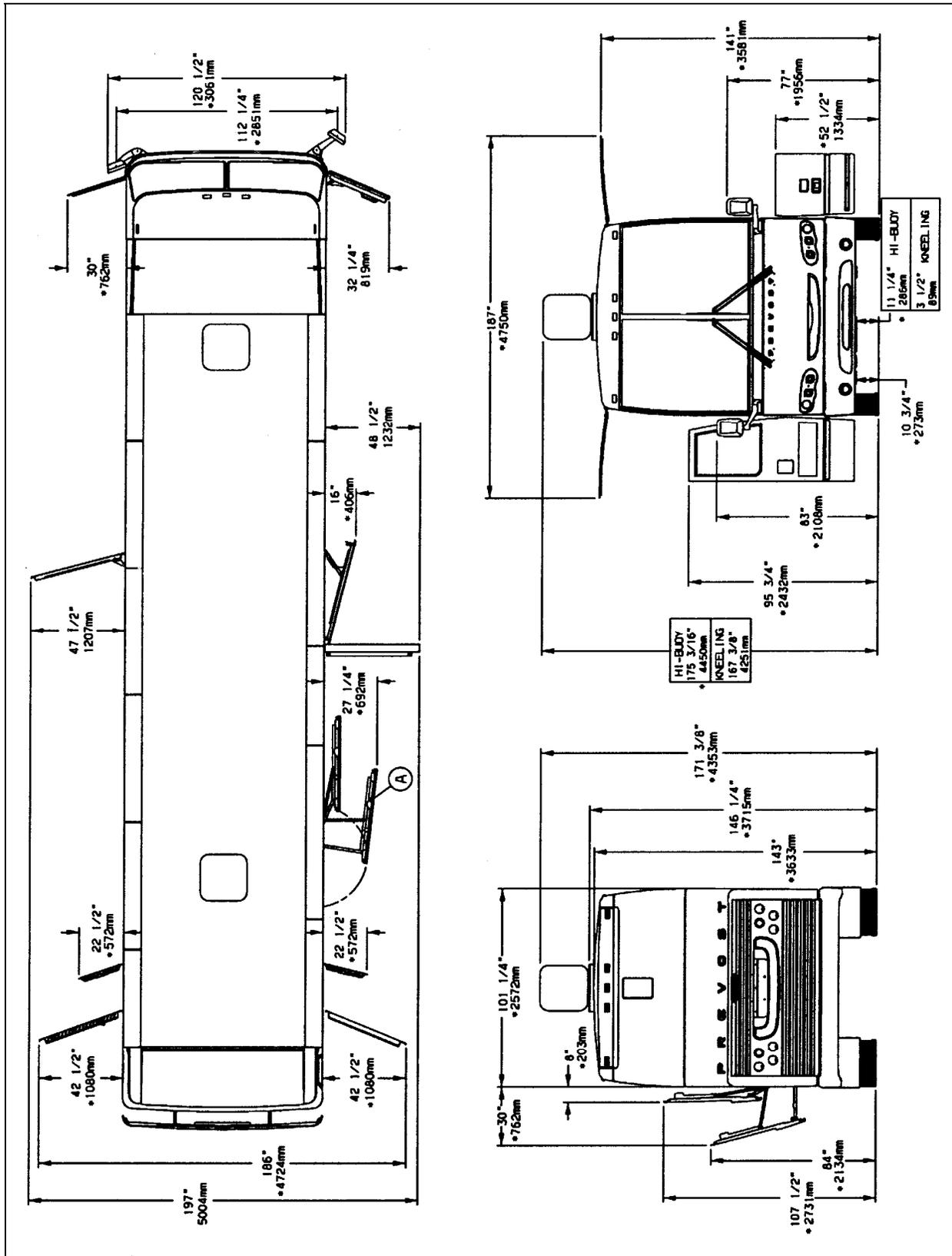
TECHNICAL INFORMATION



H3-41 OVERALL DIMENSIONS (SIDE ELEVATION)

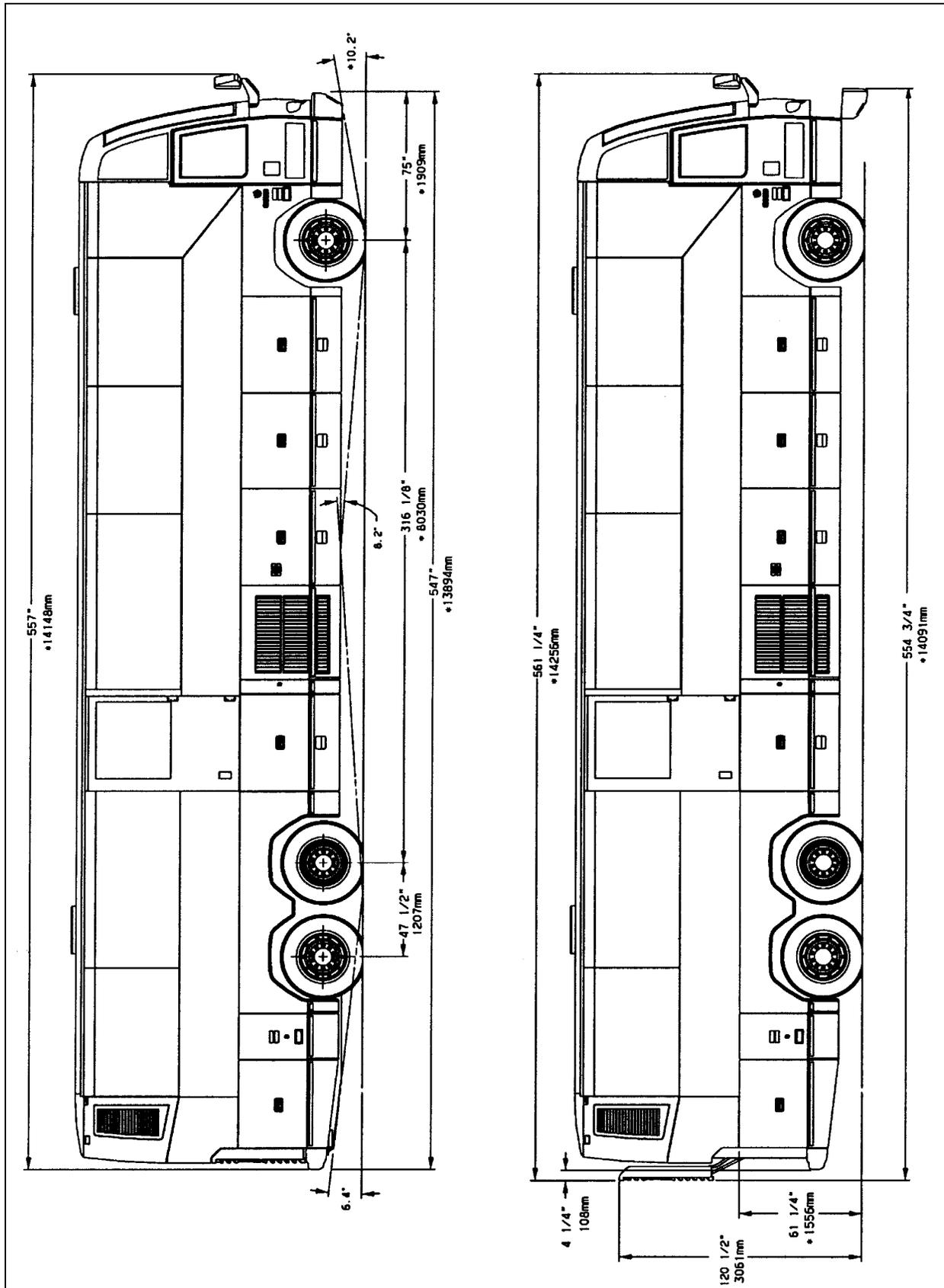
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TECHNICAL INFORMATION



H3-41 OVERALL DIMENSIONS (TOP, FRONT AND REAR VIEWS)

18510



H3-45 OVERALL DIMENSIONS (SIDE ELEVATION)

18511

TECHNICAL INFORMATION

DIMENSIONS AND WEIGHTS	H3-41	H3-45
Overall length (over bumpers)	41' 7" (12.7 m)	45' 8" (13.9 m)
Overall width	102" (2.59 m)	
Overall height (normal ride height)	146 ¼" (3.715 m)	
Wheelbase (center of front axle to center of drive axle)	267" (6.782 m)	316 ¼" (8.033 m)
Floor height from ground	63" (1.6 m)	
Ground clearance	11" (280 mm)	
Step height from ground	14" (356 mm)	
Step height (other steps)	7" (178 mm)	
Seats	48	56 - 58
Headroom	77" (1.956 m)	
Entrance door opening width	27" (686 mm)	
Front overhang	76" (1,93 m)	
Rear overhang	108 ½" (2.757 m)	108 ¼" (2.749 m)
Front track	84.4" (2.145 m)	
Drive track	76.7" (1.949 m)	
Rear track (tag axle)	83.6" (2.124 m)	
Turning circle radius (rigid axle suspension)	40' 4" (12.3 m)	45' 7" (13.9 m)
Curb weight	35,535 lbs (16 118 Kg)	36,585 lbs (16 600 Kg)
Gross Vehicle Weight Rating (G.V.W.R.)	52,060 lbs (23 665 kg)	
Front axle Gross Axle Weight Rating (G.A.W.R.)	16,500 lbs (7 500 kg)	
Drive axle G.A.W.R.	22,500 lbs (10 230 kg)	
Tag axle G.A.W.R.	14,000 lbs (6 365 kg)	

Note: Curb weight is given as an indication only and is subject to vary from coach to coach, mostly due to optional equipment.

The Gross Vehicle Weight Rating (G.V.W.R.) and the Gross Axle Weight Rating (G.A.W.R.) for front, drive and tag axles are listed on a certification plate located on the L.H. control panel in driver's section.

CAPACITIES	H3-41	H3-45
Engine oil (in crankcase)	41 US qts (39 l)	
Engine oil (in reserve tank)	8.4 US qts (8.0 l)	
Fuel tank (legal capacity equal to 95% of volume)	235 US gal. (890 l)	

CAPACITIES	H3-41	H3-45
Cooling system	24 US gal. (91 l)	
Allison transmission (does not include external circuit)	6 US gal. (23 l)	
Differential oil	5 US gal. (19 l)	
Power steering reservoir	4 US qts (3.7 l)	
A/C compressor oil	4.5 US qts (4.3 l)	
Windshield washer reservoir	5 US gal. (19 l)	
Refrigerant	24.1 lbs (11 kg)	

FUEL TYPE

ASTM specification D-975
 Recommended grade 1-D
 Acceptable grade 2-D

WHEELS AND TIRES

Steel wheels.....9" X 22½"
 Aluminum forged wheels.....9" X 22½"
 Tires315/80 R 22.5 "L"

RECOMMENDED TIRE INFLATION PRESSURE AT MAXIMUM COLD LOAD

The recommended tire inflation pressures are given in the applicable documents supplied with the vehicle. In addition, cold tire inflation pressures are listed on the Department of Transport (DOT) certification plate, affixed on the wall behind the driver's seat. For special tire selection, a "PREVOST COACH SPECIAL SPECIFICATION" chart is supplied with the vehicle and is affixed next to the DOT certification plate, located on the left wall close to the driver's seat.

Caution: These tire pressures are established in accordance with the maximum allowable load on each axle. A lower pressure is recommended if the axle load is less than the above specifications. Weigh vehicle fully loaded and pressurize according to tire manufacturer's recommendations. For non standard tire and wheel specifications, see Prevost tire pressure tabulation in "Coach Final Record" or special specification chart affixed next to the DOT certification plate.

Warning: Special tire selection may lower maximum allowable speed limit, even below posted speed limit. For maximum safety, check with tire manufacturer.

TECHNICAL INFORMATION

BELTS

Use	Make	Model	Qty
Radiator fan drive (transfer)	Gates	AX-73	3
Radiator fan drive (fan)	Dayco	Poly-V 10/51	1
A/C system compressor	Gates	BX-100	2
Alternator 2 x 28V, 140 Amps.	Gates	Poly-V 12/82	1
Alternator, 1x "limp-home"	Gates	Poly-V 12/72	1

ENGINE

Power is provided by a Detroit Diesel DDEC IV Series 60 engine, displacing 12.7 liters. The engine is an inline six cylinder, four stroke, turbocharged, air to air charge cooled, diesel engine with an overhead camshaft and four valves per cylinder.

Rated horsepower... 330 - 400 HP @ 2,100 rpm
 Peak torque..... 1,450 lbf•ft @ 1,200 rpm
 Operating range 1,200 – 2,100 rpm

ALLISON WORLD TRANSMISSION

Allison WT B500 (B500R with the optional output retarder) electronically controlled six speed automatic transmission.

Gear Ratios

1 st	3.510
2 nd	1.906
3 rd	1.429
4 th	1.000
5 th	0.737
6 th	0.639
Reverse	4.801
Converter.....	1.578
Drive axle ratio	4.30
Drive axle ratio (optional)	4.56
Drive axle ratio (optional)	4.88

BRAKES

The features of the braking system include a dual system where the front and rear circuits are completely independent from each other. The brakes are air operated disc type brakes with automatic slack adjusters on front, drive and tag axles. The emergency/parking brakes are located on the drive and tag axles only.

BRAKE CHAMBER EFFECTIVE AREA

Front axle (Rigid front axle).....22 in²
 Drive axle24/24 in² (service / emergency)
 Tag axle16/16 in² (service / emergency)

AIR SYSTEM

Compressed air is provided by a 16.5 cfm Bendix-Westinghouse "Tu-Flo", two cylinder, gear-driven, water-cooled and engine oil lubricated air compressor.

Other features and components of the air system include an air dryer and nylon color-coded air lines.

ANTILOCK BRAKING SYSTEM (ABS)

The antilock braking system has one Electronic Control Unit (ECU) controlling a four channel system. A wheel slip sensor is mounted at each front axle and drive axle wheel. The Tag axle wheels are slave to the drive axle wheels.

The Electronic Control Module (ECM) is maintenance free. Its operating voltage is 24 ± 6 volts DC. The thermal operating range for the ECM is from -40 to 167°F (-40 to 75°C).

The solenoid control valves are maintenance free. Their operating voltage is 24 (+4.8, -2.4) volts DC. The rated current draw is 1.65 amps. The thermal operating range of the solenoid control valves is from -40 to 176°F (-40 to 80°C).

TROUBLESHOOTING AND TESTING

For troubleshooting and testing of the vehicle's anti-lock braking system, refer to Rockwell WABCO Maintenance Manual: "Anti-Lock Brake Systems For Trucks, Tractors and Buses" or use dashboard Message Center Display (MCD) Diagnostic Mode under ECU Diagnostic: "Brakes".

STEERING

- Tilt steering wheel and telescopic steering column;
- Integral hydraulic assisted steering gear;
- System pressure: 2175 psi (150 bars);

ELECTRICAL SYSTEM

- 24 volt, negative ground;
- 12 volt exterior lighting;
- Twin 28 volt, 140 amp, self-regulated, belt-driven, air-cooled Bosch alternators;

- Four 12 volt, group 31 format maintenance-free batteries connected in series/parallel. Cold cranking capacity is 1900 amps with a reserve capacity of 195 minutes;
- 100 amp battery equalizer;

SUSPENSION

Goodyear rolling lobe type air springs (bellows) are used throughout.

FRONT AXLE

- 2 Bellows (12");
- 2 Shock absorbers;
- 4 Radius rods;
- 1 Transverse radius rod;
- 1 Height control valve;
- 1 Anti-roll bar, 2" diameter.

DRIVE AXLE

- 4 Bellows (11");
- 4 Shock absorbers;
- 3 Radius rods;
- 2 Height control valves;
- 1 Panhard rod
- 1 Anti-roll bar, 1½" diameter

TAG AXLE

- 2 Bellows (11");
- 2 Shock absorbers;
- 3 Radius rods;
- 1 Panhard rod.

ALIGNMENT SPECIFICATIONS

Use wheel alignment systems which work with angle measurements only, such as Josam or Hunter systems. Alignment specifications are listed in the following tables:

FRONT AXLE			
	Minimum value	Nominal value	Maximum value
Right camber (degrees)	-0.5	0.0	0.5
Left camber (degrees)	-0.5	0.0	0.5
Right caster (degrees)	2.0	2.75	3.5
Left caster (degrees)	2.0	2.75	3.5
Total toe-in (inches)	1/16	3/32	1/8

DRIVE AXLE			
	Minimum value	Nominal value	Maximum value
Thrust angle (degrees)	-0.11	0	0.11

TAG AXLE			
	Minimum value	Nominal value	Maximum value
Thrust angle (degrees)*	-0.02	0	0.02
(*) Use the drive axle as reference			

HEATING AND AIR CONDITIONING

A large capacity, central A/C provides enough conditioned and filtered air for all climatic conditions. Fresh air is drawn into the system from the evaporator compartment on driver's side of the vehicle. Return air is taken from the middle of the vehicle. The driver's heater and defogger are controlled separately from the central unit. An air mixture selector enables air to be drawn into the system from outside the vehicle or recirculated. Optionally, condensers installed in the overhead storage compartments provide cool air to the seated passengers from the overhead registers.

A/C SYSTEM	
Cooling capacity	9 tons
Refrigerant type	134a
Heating capacity	152 000 Btu/h
Airflow	2 600 cfm (73.6 m ³ /min)

COMPRESSOR	
Number of cylinders	6
Operating speed	400 to 2 200 rpm (2,600 rpm, intermittent)
Minimum speed for lubrication	400 rpm
Oil capacity	4.5 US qts (4,3 l)
Approved oil	Castrol SW-68 (POE)

Note: The above oils are suitable for use with reciprocating compressors using refrigerant R-134a and with evaporator temperatures above -40°F (-40°C).

TECHNICAL INFORMATION

OIL SPECIFICATIONS

ENGINE

Heavy-duty engine oil SAE 15W-40 meeting API classification CG-4 and military specification MIL-L-2104E.

ALLISON TRANSMISSION

The Allison transmission must be filled with *Dexron IIE*, *Dexron III* or automatic transmission fluid or any equivalent Class C4 hydraulic fluid.

DIFFERENTIAL

Multigrade gear oil meeting MIL-L-2105-D: 85W140 is recommended for use in drive axle. This lubricant performs well over a broad temperature range, providing good gear and bearing protection in a variety of climates. If temperature drops below 10°F (-12°C), 80W90 should be used, and below -15°F (-26°C), 75W90 should be used. In extreme conditions or for better performance, full synthetic gear oil should be used.

FAN GEARBOX

Only Mobil SHC 630 synthetic oil (Prevost #180217) is recommended for the fan gearbox.

POWER STEERING RESERVOIR

Use Dexron IIE or Dexron III automatic transmission fluid for this system.

WHEEL BEARINGS

If oil is to be added, use general purpose gear lubricant SAE 85W/140 (API spec. GL5).

Refer to Care and Maintenance chapter for details on adding oil.

PRE-HEATING SYSTEM

Depending on options chosen, a coolant heater may be installed on the coolant circuit. The

heater can be used as a pre-heater or as an auxiliary heat source.

Only the Webasto 104,000 Btu preheater is available. The heater is controlled by a programmable timer. See Other Features chapter for information on how to use the timer.

Webasto	
Model	Thermo 300
Heating output	104,000 Btu/hr (30 kW)
Fuel type	Same as engine
Fuel consumption	4.8 US qts/hr (4.5 l/hr)
Rated voltage	24 V DC
Operating voltage	20-28 V DC
Electric power consumption without water pump	110 watts
Dimensions (L)	24.01 (610 mm)
Inch (mm) (W)	9.69 (246 mm)
(H)	8.66 (220 mm)
Weight lb (kg)	41.88 (19)

DDEC IV DIAGNOSTIC CODES

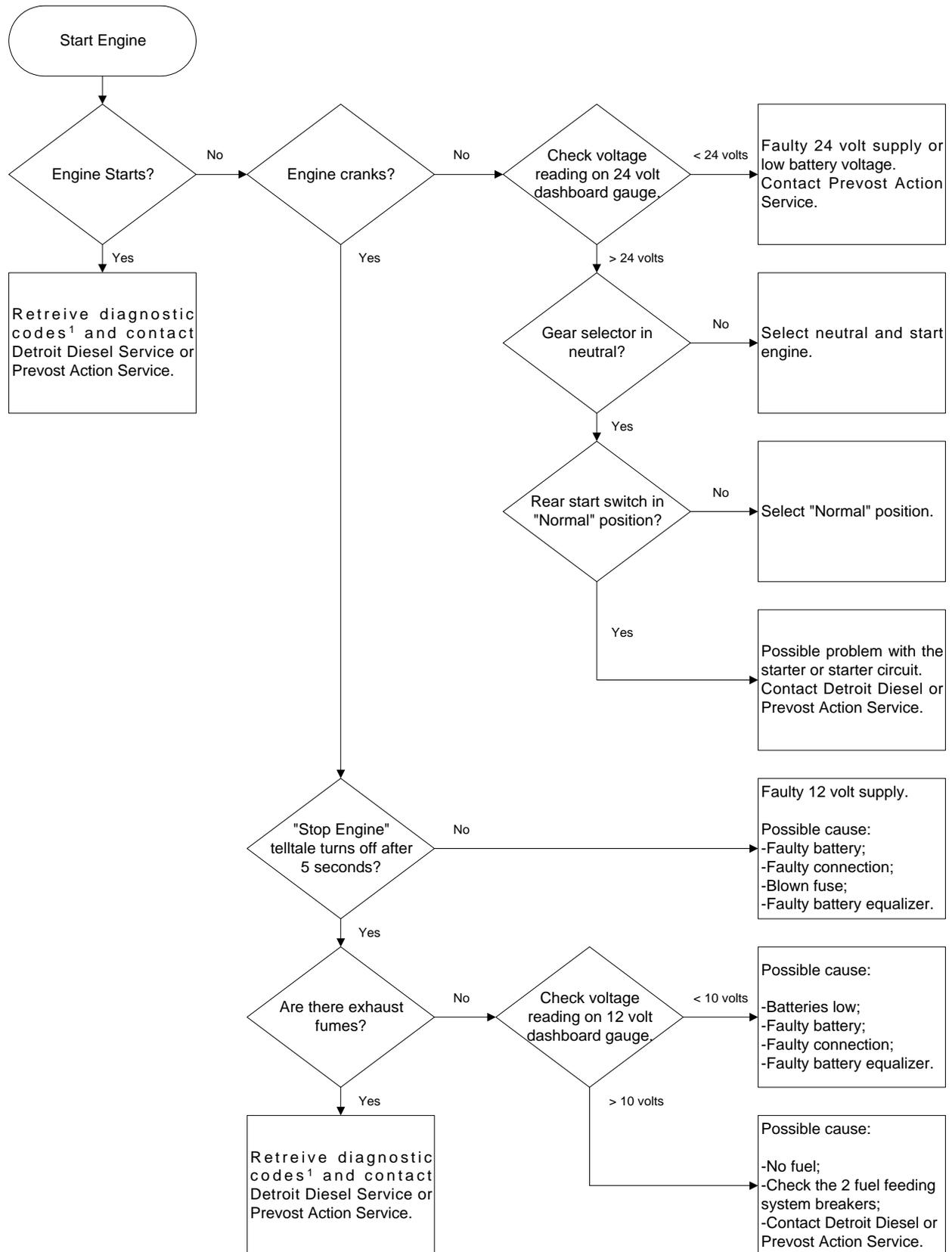
To read the diagnostic codes, a Diagnostic Data Reader should be plugged into the receptacle located on the lower side panel of the L.H. control panel. To read diagnostic codes as blink codes, momentarily depress the STOP ENGINE OVERRIDE switch while the ignition is ON, the engine is idling or shut off. Active codes will be flashed on the STOP ENGINE indicator light followed by the inactive codes being flashed on the CHECK ENGINE indicator light. The cycle is repeated until the operator depresses the STOP ENGINE OVERRIDE switch again. For example: code "43" consists of four flashes, followed by a short pause, then another three flashes in quick succession. The following table is a list of the DDEC diagnostic codes.

DDEC IV CODE	DESCRIPTION
11	(VSG) Variable speed governor sensor input voltage low
12	(VSG) Variable speed governor sensor input voltage high
13	Coolant level sensor input voltage low
14	Oil, coolant, or intercooler, temperature sensor input voltage high
15	Oil, coolant, or intercooler, temperature sensor input voltage low
16	Coolant level sensor input voltage high
17	Bypass or throttle, valve position sensor input voltage high
18	Bypass or throttle, valve position sensor input voltage low
21	TPS input voltage high
22	TPS input voltage low
23	Fuel temperature sensor input voltage high
24	Fuel temperature sensor input voltage low
25	No active codes
26	Aux. shutdown #1, or #2, input active
27	Air inlet or intake air, temperature sensor input voltage high
28	Air inlet or intake air, temperature sensor input voltage low
31	Auxiliary high side output open circuit or short to ground
32	CEL or SEL short to battery (+) or open circuit
33	Turbo boost sensor input voltage high
34	Turbo boost sensor input voltage low
35	Oil pressure sensor input voltage high
36	Oil pressure sensor input voltage low
37	Fuel pressure sensor input voltage high
38	Fuel pressure sensor input voltage low
41	Too many SRS (missing TRS)
42	Too few SRS (extra TRS)
43	Coolant level low
44	Oil, coolant, intercooler or intake air, temperature high
45	Oil pressure low
46	ECM battery voltage low
47	Fuel, air inlet or turbo boost, pressure high
48	Fuel or air inlet pressure low
52	ECM A/D conversion fault
53	ECM nonvolatile memory fault

TECHNICAL INFORMATION

DDEC IV CODE	DESCRIPTION
54	Vehicle speed sensor fault
55	J1939 data link fault
56	J1587 data link fault
57	J1922 data link fault
58	Torque overload
61	Injector response time long
62	Auxiliary output short to battery (+) or open circuit or mechanical fault
63	PWM drive short to battery (+) or open circuit
64	Turbo speed sensor input fault
65	Throttle valve position input fault
66	Engine knock sensor input fault
67	Coolant or air inlet pressure sensor input voltage fault
68	TPS idle validation switch open circuit or short to ground
71	Injector response time short
72	Vehicle overspeed
73	Gas valve position input fault or ESS fault
74	Optimized idle safety loop short to ground
75	ECM battery voltage high
76	Engine overspeed with engine brake
77	Fuel temperature high
81	Oil level, crankcase pressure, dual fuel BOI or exhaust temperature voltage high
82	Oil level, crankcase pressure, dual fuel BOI or exhaust temperature voltage low
83	Oil level, crankcase pressure, exhaust temperature or external pump pressure high
84	Oil level or crankcase pressure low
85	Engine overspeed
86	External pump or barometer pressure sensor input voltage high
87	External pump or barometer pressure sensor input voltage low
88	Coolant pressure low

ENGINE TROUBLESHOOTING FLOWCHART



(1) Refer to DDEC IV Diagnostic Codes in this chapter.

TECHNICAL INFORMATION

WORLD TRANSMISSION (WT) DIAGNOSTIC CODES

The WT Diagnostic Code Memory List contains the following headings: Code List Position, Main Code, Sub Code, Active indicator, Ignition Cycle Counter and Event counter. Up to five (5) codes can be stored at the same time in this memory.

The last occurring codes are listed first. Accessing the code list position, main code, sub code and active indicator is done through the Shift Selector Display or by using the Pro-Link Diagnostic Tool. Access to the ignition cycle counter and event counter can be done only through the Pro-Link diagnostic tool. The following table is an example of the information stored in memory.

DIAGNOSTIC CODE MEMORY LIST

Code List Position	Main Code	Sub Code	Active Indicator	Ignition Cycle Counter	Event Counter
d1	21	12	YES	00	10
d2	41	12	YES	00	04
d3	23	12	NO	08	02
d4	34	12	NO	13	01
d5	56	11	NO	22	02
Displayed on Shift Selector Display and Diagnostic Tool			"YES" = ACTIVE = "MODE ON"	Ignition cycle counter and event counter are not available on Shift Selector Display	

Note: All information stored in memory can be accessed using the Pro-Link Diagnostic Tool.

Note: The diagnostic codes are stored in the memory queue in positions 1 through 5. The location of a diagnostic code in the memory queue is identified by "d1" (diagnostic code #1) through "d5".

The following paragraphs define the different WT Diagnostic Code Memory List headings:

MAIN CODE

The general condition or area of fault detected by the ECU.

SUB CODE

The specific area or condition under the Main Code in which the condition was detected.

ACTIVE INDICATOR

Illuminates when a fault condition is active (Shift Selector will display *MODE ON* or the Pro-Link Diagnostic Tool will display *YES*). The indicator will extinguish when the fault condition is gone.

IGNITION CYCLE COUNTER

Used to clear inactive diagnostic codes from the code list in memory. The counter is incremented each time a normal ECU power-down occurs following the clearing of the active indicator. A

diagnostic code will be cleared from the list when the counter exceeds 25.

EVENT COUNTER

Used to record the number of times a diagnostic code occurs prior to the incident being cleared from the code list. The last occurring code will be stored in position "d1". If the most recent code is already in the code list, that code will be moved to position "d1". The Active Indicator will illuminate (Shift Selector will display *MODE ON* or the Diagnostic Tool will display *YES*), the Ignition Cycle Counter will be cleared and "1" will be added to the Event Counter.

CODE READING AND CLEARING

Diagnostic codes can be read and cleared by two methods: by using the Pro-Link 9000 Diagnostic Tool plugged into the receptacle located in the driver's footwell or by using the Shift Selector Display. The operation of the Pro-Link 9000 Diagnostic Tool is described in the user's manual provided with the Tool. This section describes how to read and clear codes using the Shift Selector Display.

The Diagnostic Display Mode can be entered for viewing codes at any speed. Codes can only be cleared when the output speed = 0 and no output speed sensor failure is active.

Reading Codes

Read codes as follows:

Enter the Diagnostic Display Mode by pressing both the "▲" (up arrow) and "▼" (down arrow) push buttons at the same time, twice on the push-button Shift Selector.

Note: To obtain the oil level, press the "▲" (up arrow) and "▼" (down arrow) push-buttons once, at the same time. Refer to "Oil Level Sensor (OLS) Codes" in this chapter.

Read the first code in the first of the five code positions on the digital display of the Shift Selector. For example, code "25 11" is stored in the first position. The display will change every two seconds as follows:

- Code list position = "d1"
- Main code = "25"
- Sub code = "11"

Display will repeat steps a, b and c.

Press the MODE button momentarily to view the second position (d2) as described in step 2.

To view the third, fourth and fifth positions (d3, d4 and d5), momentarily press the MODE button as explained above.

Pressing the MODE button momentarily after the fifth position (d5) is displayed will return the code display to the first position (d1).

Any code which is active will be indicated by the MODE ON indicator (Active Indicator) being illuminated while in that code position. While in the normal operating mode, the MODE ON indicator is illuminated to indicate the ECONOMY mode operation. Refer to "Controls & Instruments" chapter under MODE.

Any code position in the list which does not have a diagnostic code logged will display "- -" for both the Main and Sub Code displays. All positions after a code position without any code stored will also display "- -".

Clearing Codes

Clearing of the Active Indicator is automatically done at ECU power-down for all codes except code "69 34".

Some codes will clear the Active Indicator automatically when the condition causing the code is no longer detected by the ECU. Refer to the "Diagnostic Code List and Description" table in this chapter.

Manual code clearing is only possible while in the Diagnostic Display Mode (output speed must be zero) and after the condition causing the code is corrected.

To clear all Active Indicators, hold down the MODE button continuously for 3 seconds until the Shift Selector tone sounds for 0.5 second.

To clear code records from the list, hold the MODE button down continuously for ten seconds until a second tone sounds. All diagnostic records in the list that are not active will then be cleared and the remaining records will then be moved up the list.

Release the MODE button to return to normal operating mode.

If the condition causing the code was not active at the time, the active indicator will go out.

Note: If clearing a code while locked in a drive (D) or reverse (R) position (fail-to-range), the transmission will still be in drive (D) or reverse (R) when the clearing procedure is completed. Neutral (N) must be manually selected.

Exiting The Diagnostic Display Mode

The Diagnostic Display Mode can be exited by any of the following methods:

- Press the "▲" (up arrow) and "▼" (down arrow) push buttons at the same time on the push-button Shift Selector.
- Press any range button, "D", "N" or "R" on the push-button Shift Selector (the shift will be commanded if it is not inhibited by an active code).
- Do nothing and wait until the calibrated time (approximately 10 minutes) has passed. The system will automatically return to the normal operating mode.
- Turn off power to the ECU (shut off the engine with the ignition key).
- After clearing the active indicator as described in "Clearing Codes" section.

DIAGNOSTIC CODE RESPONSE

The following responses are used in the "Diagnostic Code List and Description" table to command safe operation when diagnostic codes are sent.

TECHNICAL INFORMATION

DNS - Do Not Shift Response

- Release lock up clutch and inhibit lock up operation.
- Inhibit all shifts.
- Turn *ON* the CHECK TRANS light.
- Display the range attained.
- Ignore any range selection inputs from the shift selector.

DNA - Do Not Adapt Response

The ECU stops adaptive shift control while the code is active.

SOL OFF - SOLenoid OFF Response

All solenoids are commanded *OFF* (turning solenoids "A" and "B" off electrically cause them to be on hydraulically).

RPR - Return to Previous Range Response

When the speed sensor ratio or C3 pressure switch test associated with a shift not successful, the ECU commands the same range as commanded before the shift.

NNC - Neutral No Clutches Response

When certain speed sensor ratio or C3 pressure switch tests are not successful, the ECU commands a neutral condition with no clutches applied.

DIAGNOSTIC CODE LIST AND DESCRIPTION

MAIN CODE	SUB CODE	DESCRIPTION	CHECK TRANS LIGHT	INHIBITED OPERATION DESCRIPTION
13	12	ECU input voltage, low	Yes	DNS, DNA, SOL OFF, (Hydraulic default)
13	13	ECU input voltage, medium low	No	DNA
13	23	ECU input voltage, high	Yes	DNS, SOL OFF (Hydraulic default)
14	12	Oil level sensor, failed low	No	None
14	23	Oil level sensor, failed high	No	None
22	14	Engine speed sensor reasonableness test	No	Use default engine speed, DNA
22	15	Turbine speed sensor reasonableness test	Yes	DNS, lock in current range, DNA
22	16	Output speed sensor reasonableness test	Yes ⁽¹⁾	DNS, LOCK IN CURRENT RANGE, DNA
23	12	Primary Shift Selector or RSI Link Fault	Yes	Hold in last valid direction. May cause "cateye" display
23	14	Secondary Shift Selector or RSI Link Fault	Yes	Hold in last valid direction
23	16	Shift Selector display line fault	No	None, may cause "cateye" display
24	12	Sump fluid temperature, cold	Yes	DNS, lock in neutral
24	23	Sump fluid temperature, hot	No	No upshifts above a calibration range
25	0	Output speed sensor detected at 0 speed (Low)	Yes ⁽¹⁾	DNS, lock in current range (Low), DNA
25	11	Output speed sensor detected at 0 speed (1st)	Yes ⁽¹⁾	DNS, lock in current range (1st), DNA
25	22	Output speed sensor detected at 0 speed (2nd)	Yes ⁽¹⁾	DNS, lock in current range (2nd), DNA
25	33	Output speed sensor detected at 0 speed (3rd)	Yes ⁽¹⁾	DNS, lock in current range (3rd), DNA
25	44	Output speed sensor detected at 0 speed (4th)	Yes ⁽¹⁾	DNS, lock in current range (4th), DNA

TECHNICAL INFORMATION

MAIN CODE	SUB CODE	DESCRIPTION	CHECK TRANS LIGHT	INHIBITED OPERATION DESCRIPTION
25	55	Output speed sensor detected at 0 speed (5th)	Yes ⁽¹⁾	DNS, lock in current range (5th), DNA
25	66	Output speed sensor detected at 0 speed (6th)	Yes ⁽¹⁾	DNS, lock in current range (6th), DNA
25	77	Output speed sensor detected at 0 speed (R)	Yes ⁽¹⁾	DNS, lock in current range (R), DNA
26	00	Throttle source not detected	No	Use throttle default values, DNA
26	11	Engine coolant source not detected	No	Use default value of 0°F
32	0	C3 pressure switch open, Low range	Yes	DNS, lock in current range (Low), DNA
32	33	C3 pressure switch open, 3rd range	Yes	DNS, lock in current range (3rd), DNA
32	55	C3 pressure switch open, 5th range	Yes	DNS, lock in current range (5th), DNA
32	77	C3 pressure switch open, Reverse range	Yes	DNS, lock in current range (R), DNA
33	12	Sump oil temperature sensor failed low	No	Use default value of 200°F (93°C)
33	23	Sump oil temperature sensor, failed high	No	Use default value of 200°F (93°C)
34	12	Factory calibration compatibility number wrong	Yes	DNS, SOL OFF (Hydraulic default), DNA
34	13	Factory calibration block checksum	Yes	DNS, SOL OFF (Hydraulic default), DNA
34	14	Power off block checksum	No	Use previous location or factory calibration and reset adaptive, DNA
34	15	Diagnostic queue block checksum	No	Use previous location or clear diagnostic queue, DNA
34	16	Real time block checksum	Yes	DNS, SOL OFF (Hydraulic default), DNA
34	17	Customer modifiable constants checksum	Yes	DNS, SOL OFF (Hydraulic default), DNA
35	0	Power interruption (code set after power restored)	No	None (Hydraulic default during interruption)
35	16	Real time write interruption	Yes	DNS, SOL OFF (Hydraulic default), DNA
36	0	Hardware/Software not compatible	Yes ⁽²⁾	DNS, SOL OFF (Hydraulic default), DNA
42	12	Short to battery, A solenoid circuit	Yes	DNS, SOL OFF, DNA
42	13	Short to battery, B solenoid circuit	Yes	DNS, SOL OFF, DNA
42	14	Short to battery, C solenoid circuit	Yes	DNS, SOL OFF, DNA
42	15	Short to battery, D solenoid circuit	Yes	DNS, SOL OFF, DNA
42	16	Short to battery, E solenoid circuit	Yes	DNS, SOL OFF, DNA
42	21	Short to battery, F solenoid circuit	No	Lock up inhibited, DNA
42	22	Short to battery, G solenoid circuit	Yes	DNS, lock in a range
42	23	Short to battery, H solenoid circuit	No	Differential lock inhibited (3070 only), retarder inhibited
42	24	Short to battery, J solenoid circuit	No	Low and 1st inhibited
42	26	Short to battery, N solenoid circuit	No	Low and 1st inhibited, allow retarder

TECHNICAL INFORMATION

MAIN CODE	SUB CODE	DESCRIPTION	CHECK TRANS LIGHT	INHIBITED OPERATION DESCRIPTION
44	12	Short to ground, A solenoid circuit	Yes	DNS, SOL OFF (Hydraulic default), DNA
44	13	Short to ground, B solenoid circuit	Yes	DNS, SOL OFF (Hydraulic default), DNA
44	14	Short to ground, C solenoid circuit	Yes	DNS, SOL OFF (Hydraulic default), DNA
44	15	Short to ground, D solenoid circuit	Yes	DNS, SOL OFF (Hydraulic default), DNA
44	16	Short to ground, E solenoid circuit	Yes	DNS, SOL OFF (Hydraulic default), DNA
44	21	Short to ground, F solenoid circuit	No	Lockup inhibited, DNA
44	22	Short to ground, G solenoid circuit	Yes	DNS, SOL OFF (Hydraulic default), DNA
44	23	Short to ground, H solenoid circuit	No	Differential lock inhibited (3070 only), retarder operation inhibited
44	24	Short to ground, J solenoid circuit	No	Low and 1st inhibited
44	26	Short to ground, N solenoid circuit	No	Low and 1st inhibited, retarder allowed
45	12	Open circuit, A solenoid circuit	Yes	DNS, SOL OFF (Hydraulic default), DNA
45	13	Open circuit, B solenoid circuit	Yes	DNS, SOL OFF (Hydraulic default), DNA
45	14	Open circuit, C solenoid circuit	Yes	DNS, SOL OFF (Hydraulic default), DNA
45	15	Open circuit, D solenoid circuit	Yes	DNS, SOL OFF (Hydraulic default), DNA
45	16	Open circuit, E solenoid circuit	Yes	DNS, SOL OFF (Hydraulic default), DNA
45	21	Open circuit, F solenoid circuit	No	Lock up inhibited, DNA
45	22	Open circuit, G solenoid circuit	Yes	DNS, SOL OFF (Hydraulic default), DNA
45	23	Open circuit, H solenoid circuit	No	Differential lock inhibited (3070 only), retarder inhibited
45	24	Open circuit, J solenoid circuit	No	Low and 1st inhibited
45	26	Open circuit, N solenoid circuit	No	Low and 1st inhibited, retarder allowed
46	21	Overcurrent, F solenoid circuit	No	Lock up inhibited, DNA
46	26	Overcurrent, N and H solenoid circuits	No	Low and first inhibited or retarder inhibited, DNA
46	27	Overcurrent, A-Hi solenoid circuit	Yes	DNS, SOL OFF (Hydraulic default), DNA
51	01	Offgoing ratio test (during shift), Low to 1	Yes	DNS, RPR, DNA
51	10	Offgoing ratio test (during shift), 1 to Low	Yes	DNS, RPR, DNA
51	12	Offgoing ratio test (during shift), 1 to 2	Yes	DNS, RPR, DNA
51	21	Offgoing ratio test (during shift), 2 to 1	Yes	DNS, RPR, DNA
51	23	Offgoing ratio test (during shift), 2 to 3	Yes	DNS, RPR, DNA
51	24	Offgoing ratio test (during shift), 2 to 4	Yes	DNS, RPR, DNA
51	35	Offgoing ratio test (during shift), 3 to 5	Yes	DNS, RPR, DNA
51	42	Offgoing ratio test (during shift), 4 to 2	Yes	DNS, RPR, DNA

TECHNICAL INFORMATION

MAIN CODE	SUB CODE	DESCRIPTION	CHECK TRANS LIGHT	INHIBITED OPERATION DESCRIPTION
51	43	Offgoing ratio test (during shift), 4 to 3	Yes ⁽¹⁾	DNS, RPR, DNA
51	45	Offgoing ratio test (during shift), 4 to 5	Yes ⁽¹⁾	DNS, RPR, DNA
51	46	Offgoing ratio test (during shift), 4 to 6	Yes	DNS, RPR, DNA
51	53	Offgoing ratio test (during shift), 5 to 3	Yes	DNS, RPR, DNA
51	64	Offgoing ratio test (during shift), 6 to 4	Yes	DNS, RPR, DNA
51	65	Offgoing ratio test (during shift), 6 to 5	Yes	DNS, RPR, DNA
	XY	Offgoing ratio test, X to Y ⁽³⁾		
52	1	Offgoing C3PS test (during shift), Low to 1	Yes	DNS, RPR, DNA
52	8	Offgoing C3PS test (during shift), L to N1	Yes	DNS, NNC, DNA
52	32	Offgoing C3PS test (during shift), 3 to 2	Yes	DNS, RPR, DNA
52	34	Offgoing C3PS test (during shift), 3 to 4	Yes	DNS, RPR, DNA
52	54	Offgoing C3PS test (during shift), 5 to 4	Yes	DNS, RPR, DNA
52	56	Offgoing C3PS test (during shift), 5 to 6	Yes	DNS, RPR, DNA
52	71	Offgoing C3PS test (during shift), R to 1	Yes	DNS, NNC, DNA
52	72	Offgoing C3PS test (during shift), R to 2	Yes	DNS, NNC, DNA
52	78	Offgoing C3PS test (during shift), R to N1	Yes	DNS, NNC, DNA
52	99	Offgoing C3PS test (during shift), N3 to N2	Yes	DNS, RPR, DNA
52	XY	Offgoing C3PS test (during shift) X to Y ⁽³⁾		
53	8	Offgoing speed test (during shift), L to N1	Yes ⁽¹⁾	DNS, NNC, DNA
53	18	Offgoing speed test (during shift), 1 to N1	Yes ⁽¹⁾	DNS, NNC, DNA
53	28	Offgoing speed test (during shift), 2 to N1	Yes ⁽¹⁾	DNS, NNC, DNA
53	29	Offgoing speed test (during shift), 2 to N2	Yes ⁽¹⁾	DNS, RPR, DNA
53	38	Offgoing speed test (during shift), 3 to N1	Yes ⁽¹⁾	DNS, NNC, DNA
53	39	Offgoing speed test (during shift), 3 to N3	Yes ⁽¹⁾	DNS, RPR, DNA
53	48	Offgoing speed test (during shift), 4 to N1	Yes ⁽¹⁾	DNS, NNC, DNA
53	49	Offgoing speed test (during shift), 4 to N3	Yes ⁽¹⁾	DNS, RPR, DNA
53	58	Offgoing speed test (during shift), 5 to N1	Yes ⁽¹⁾	DNS, NNC, DNA
53	59	Offgoing speed test (during shift), 5 to N3	Yes ⁽¹⁾	DNS, RPR, DNA
53	68	Offgoing speed test (during shift), 6 to N1	Yes ⁽¹⁾	DNS, NNC, DNA

TECHNICAL INFORMATION

MAIN CODE	SUB CODE	DESCRIPTION	CHECK TRANS LIGHT	INHIBITED OPERATION DESCRIPTION
53	69	Offgoing speed test (during shift), 6 to N4	Yes ⁽¹⁾	DNS, RPR, DNA
53	78	Offgoing speed test (during shift), R to N1	Yes	DNS, NNC, DNA
53	99	Offgoing speed test (during shift), N2 to N3 or N3 to N2	Yes	DNS, RPR, DNA
53	XY	Offgoing speed test (during shift), X to Y ⁽³⁾		
54	1	Oncoming ratio test (after shift), L to 1	Yes	DNS, RPR, DNA
54	7	Oncoming ratio test (after shift), L to R	Yes	DNS, NNC, DNA
54	10	Oncoming ratio test (after shift), 1 to L	Yes	DNS, RPR, DNA
54	12	Oncoming ratio test (after shift), 1 to 2	Yes	DNS, RPR, DNA
54	17	Oncoming ratio test (after shift), 1 to R	Yes	DNS, NNC, DNA
54	21	Oncoming ratio test (after shift), 2 to 1	Yes	DNS, RPR, DNA
54	23	Oncoming ratio test (after shift), 2 to 3	Yes	DNS, RPR, DNA
54	24	Oncoming ratio test (during shift), 2 to 4	Yes	DNS, RPR, DNA
54	27	Oncoming ratio test (after shift), 2 to R	Yes	DNS, RPR, DNA
54	32	Oncoming ratio test (after shift), 3 to 2	Yes	DNS, RPR, DNA
54	34	Oncoming ratio test (after shift), 3 to 4	Yes	DNS, RPR, DNA
54	35	Oncoming ratio test (during shift), 3 to 5	Yes	DNS, RPR, DNA
54	42	Oncoming ratio test (during shift), 4 to 2	Yes	DNS, RPR, DNA
54	43	Oncoming ratio test (after shift), 4 to 3	Yes	DNS, RPR, DNA
54	45	Oncoming ratio test (after shift), 4 to 5	Yes	DNS, RPR or SOL OFF (Hydraulic default), DNA
54	46	Oncoming ratio test (during shift), 4 to 6	Yes	DNS, RPR, DNA
54	53	Oncoming ratio test (during shift), 5 to 3	Yes	DNS, RPR, DNA
54	54	Oncoming ratio test (after shift), 5 to 4	Yes	DNS, RPR, DNA
54	56	Oncoming ratio test (after shift), 5 to 6	Yes	DNS, RPR, DNA
54	64	Oncoming ratio test (after shift), 6 to 4	Yes	DNS, RPR, DNA
54	65	Oncoming ratio test (after shift), 6 to 5	Yes	DNS, RPR, DNA
54	70	Oncoming ratio test (after shift), R to L	Yes	DNS, NNC, DNA
54	71	Oncoming ratio test (after shift), R to 1	Yes	DNS, NNC, DNA
54	72	Oncoming ratio test (after shift), R to 2	Yes	DNS, NNC, DNA
54	80	Oncoming ratio test (after shift), N1 to L	Yes	DNS, RPR, DNA
54	81	Oncoming ratio test (after shift), N1 to 1	Yes	DNS, RPR, DNA
54	82	Oncoming ratio test (after shift), N1 to 2	Yes	DNS, RPR, DNA
54	83	Oncoming ratio test (after shift), N1 to 3	Yes	DNS, RPR, DNA
54	85	Oncoming ratio test (after shift), N1 to 5	Yes	DNS, RPR, DNA
54	86	Oncoming ratio test (after shift), N1 to 6	Yes	DNS, RPR, DNA

TECHNICAL INFORMATION

MAIN CODE	SUB CODE	DESCRIPTION	CHECK TRANS LIGHT	INHIBITED OPERATION DESCRIPTION
54	92	Oncoming ratio test (after shift), N2 to 2	Yes	DNS, RPR, DNA
54	93	Oncoming ratio test (after shift), N3 to 3	Yes	DNS, RPR, DNA
54	95	Oncoming ratio test (after shift), N3 to 5	Yes	DNS, RPR, DNA
54	96	Oncoming ratio test (after shift), N4 to 6	Yes	DNS, RPR, DNA
54	XY	Oncoming ratio test (after shift), X to Y ⁽³⁾		
55	07	Oncoming C3PS test (after shift), Low to R	Yes ⁽¹⁾	DNS, NNC, DNA
55	17	Oncoming C3PS test (after shift), 1 to R	Yes ⁽¹⁾	DNS, NNC, DNA
55	27	Oncoming C3PS test (after shift), 2 to R	Yes ⁽¹⁾	DNS, NNC, DNA
55	87	Oncoming C3PS test (after shift), N1 to R	Yes	DNS, RPR, DNA
55	97	Oncoming C3PS test (after shift), NVL to R	Yes ⁽¹⁾	DNS, NNC, DNA
55	XY	Oncoming C3PS test (after shift), X to Y ⁽³⁾		
56	0	Range verification test, L	Yes ⁽¹⁾	DNS, 1st, Low or SOL OFF (Low),DNA
56	11	Range verification ratio test, 1 st	Yes	DNS, 6th, DNA
56	22	Range verification ratio test, 2 nd	Yes ⁽¹⁾	DNS, 6th or 5th, DNA
56	33	Range verification ratio test, 3 rd	Yes ⁽¹⁾	DNS, 5th or SOL OFF (4th), DNA
56	44	Range verification ratio test, 4 th	Yes	DNS, 3rd or 5th, DNA
56	55	Range verification ratio test, 5 th	Yes ⁽¹⁾	DNS, SOL OFF (5th) or 3rd, DNA
56	66	Range verification ratio test, 6 th	Yes	DNS, 5th, 3rd or SOL OFF (3rd), DNA
56	77	Range verification ratio test, R	Yes	DNS, N2 or N3, DNA
57	11	Range verification C3PS test, 1 st	Yes	DNS, SOL OFF (3rd), DNA
57	22	Range verification C3PS test, 2 nd	Yes	DNS, 3rd, DNA
57	44	Range verification C3PS test, 4 th	Yes	DNS, 5th or SOL OFF (3rd), DNA
57	66	Range verification C3PS test, 6 th	Yes	DSN, SOL OFF (5th), DNA
57	88	Range verification C3PS test, N1	Yes	DNS, N3, DNA
57	99	Range verification C3PS test, N2 or N4	Yes	DNS, N3, DNA
61	0	Retarder oil temperature, hot	No	None
62	12	Retarder oil temperature sensor, low	No	None
62	23	Retarder oil temperature sensor, high	No	None
62	32	Engine coolant sensor, failed low	No	Use default value of 0°F
62	33	Engine coolant sensor, failed high	No	Use default value of 0°F
63	0	Input function fault	Yes	Depends on input function, DNA
63	26	Kickdown input, failed on	No	Kickdown operation inhibited

TECHNICAL INFORMATION

MAIN CODE	SUB CODE	DESCRIPTION	CHECK TRANS LIGHT	INHIBITED OPERATION DESCRIPTION
63	40	Service brake status input, failed on	No	No auto Neutral to Drive shifts for refuse packer (I/O package # 41).
64	12	Retarder modulation request sensor, failed low	No	Retarder operation inhibited
64	23	Retarder modulation request sensor, failed high	No	Retarder operation inhibited
66	0	Serial communications interface fault	No	Use default throttle values, DNA
66	11	SCI engine coolant source fault	No	Use default value of 0°F
69	27	ECU, inoperative A-Hi switch	Yes	DNS, NNC, DNA
69	28	ECU, inoperative F-Hi switch	Yes	Lock up inhibited, DNA
69	29	ECU, inoperative N and H-Hi switch	No	Low and 1st inhibited, retarder inhibited, DNA
69	33	ECU, Computer Operating Properly (COP) timeout	No	RESET ECU, SHUTDOWN ECU ON 2ND OCCURRENCE (POWER LOSS: HYDRAULIC DEFAULTS), MAY CAUSE "CATEYE" DISPLAY, DNA ⁽⁴⁾
69	34	ECU, write timeout	Yes	DNS, SOL OFF (Hydraulic default), DNA
69	35	ECU, checksum test	No	Induce COP timeout (reset ECU), DNA ⁽⁴⁾
69	36	ECU, RAM self test	No	INDUCE COP TIMEOUT (reset ECU), DNA ⁽⁴⁾
69	39	Communication chip addressing error	No	Use default for J1939 data, DNA
69	41	ECU, I/O ASIC addressing test	No	Induce COP timeout (reset ECU), DNA ⁽⁴⁾
69	42	SPI output failure	Yes	GPO 1-8 and reverse warning inoperable
69	43	SPI input failure	Yes	DNS, lock in range, DNA

(1) This code is logged in real time to protect the transmission in case a loss of power to the ECU. Power Interruption code 35 00 occurs.

(2) The ECU hardware or software must be changed so that they are compatible.

(3) Additional codes could be logged for other shifts where X indicates range shifted from and Y indicates range shifted to.

(4) The COP reset will clear the active inhibit.

FLUID LEVEL SENSOR (OLS) CODES

Oil level codes are obtained as follows:

Press both the "▲" (up arrow) and "▼" (down arrow) push-buttons simultaneously. Oil level codes are displayed in 2 minutes (e.g. display will flash and 8, 7, ...; countdown will occur during the 2 minutes) once the following parameters are met:

- Engine at idle;
- Oil at operating temperature;
- Transmission in neutral (N);
- Transmission output shaft stopped;
- Oil level sensor present and working.

After 2 minutes, the display will flash one of the codes shown below:

CODE	CAUSE OF CODE
OL-OK	Oil level is correct
LO-01	One quart low
LO-02	Two quarts low
HI-01	One quart high
HI-02	Two quarts high

CODE	CAUSE OF CODE
OL-50	Engine speed (rpm) too low
OL-59	Engine speed (rpm) too high
OL-65	Neutral must be selected
OL-70	Sump oil temperature too low
OL-79	Sump oil temperature too high
OL-89	Output shaft rotation
OL-95	Sensor failure

Note: Failure to meet one of the above parameters will stop the two minute countdown. One of the codes shown below will indicate the cause of the countdown interruption. Once all parameters are met, the countdown will continue from where it left off.

Exiting The Fluid Level Display Mode

To exit the Oil Level Display Mode, press any range button ("R", "N" or "D").

CLEARING CODES

If the CHECK TRANS light is illuminated, first clear all diagnostic codes by pressing both the "▲" (up arrow) and "▼" (down arrow) pushbuttons at the same time, twice.

Take the vehicle for a test drive. If the CHECK TRANS light illuminates again, record the diagnostic codes. Refer to "World Transmission (WT) Diagnostic Codes" in this chapter.

TECHNICAL INFORMATION

LIGHT BULB DATA

Please, refer to your vehicle Parts Manual for selection of replacement light bulbs.

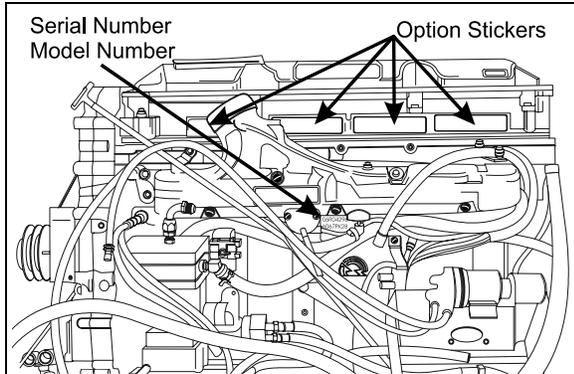
PLATES AND CERTIFICATION

The main components of the vehicle, such as engine, transmission, axles and the chassis are identified by different serial numbers. It may be necessary to locate these numbers for warranty purposes.

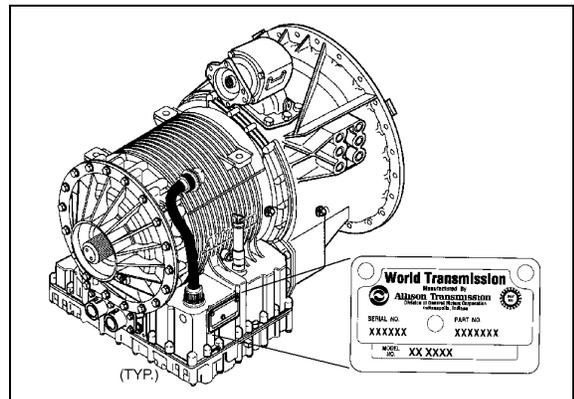
The engine serial and model number are stamped on the cylinder block (as viewed from the flywheel end) on the left side just below the fire deck and above the cast-in Detroit Diesel logo.

In addition, option decals are located on the rocker cover (starter side). The engine serial

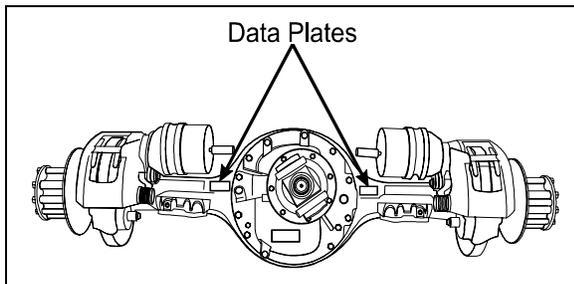
and model number and a list of the optional engine equipment are written on these decals. Refer to this information when ordering replacement parts.



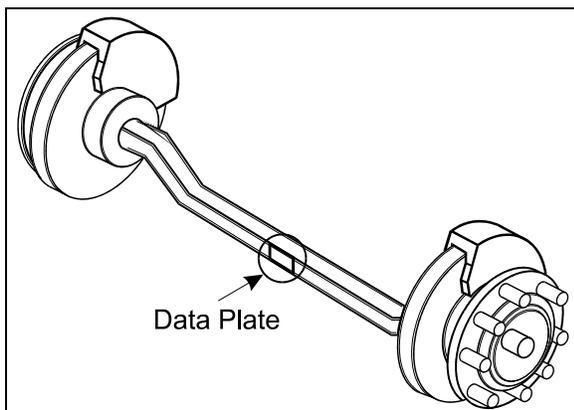
SERIES 60 ENGINE 00009



TRANSMISSION DATA PLATE (ALLISON) 07019



DRIVE AXLE 11019



FRONT AXLE (RIGID SUSPENSION) 00008

SAFETY CERTIFICATION

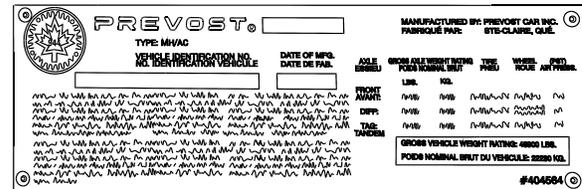
Vehicle components meet specifications and standards as follows:

- Material and parts conform to ASTM and/or SAE standards in effect at the time of manufacture.
- All factory-installed interior materials meet FMVSS 302 for fire resistance.
- Certified according to Provincial, State and Federal Safety standards (Canadian and US) BMCSS, FMVSS and CMVSS.

Other applicable certification labels are affixed to the applicable components.

DOT CERTIFICATION PLATE

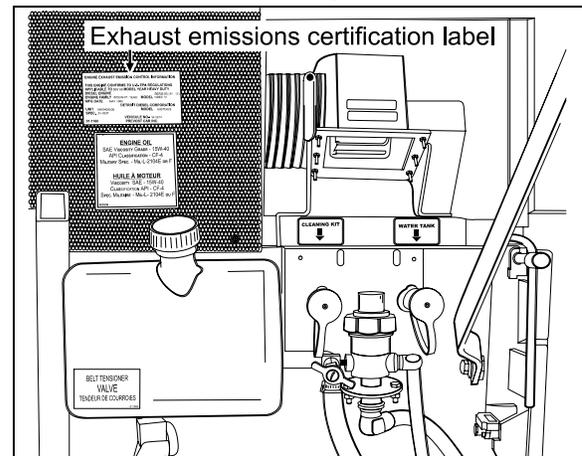
This certifies that vehicles manufactured by PrevoSt Car Inc. comply with all Federal Motor Vehicle Safety Standards at the time of manufacture. Information such as date of manufacture, model year, gross vehicle weight rating, tire types and inflation pressure is also etched on this plate. The DOT Certification plate is affixed to L.H. control panel.



DOT CERTIFICATION PLATE 00016

EPA ENGINE LABEL

The emissions certification label affixed to the panel over the engine oil reserve tank certifies that the engine conforms to federal and any state exhaust emissions regulations.



EPA CERTIFICATION LABEL 23209

TECHNICAL INFORMATION

VEHICLE IDENTIFICATION NUMBER (VIN)



VEHICLE IDENTIFICATION NUMBER

18479

The Vehicle Identification Number is stamped on a plate located on the windshield frame pillar (driver's side). The VIN is visible from the outside of the vehicle. Make sure the correct vehicle identification number is given when ordering replacement parts. Using the VIN when ordering parts will facilitate processing.

Note: Record the VIN in the vehicle documentation and keep with company records. The VIN will normally be used for vehicle registration, service reference needs and for obtaining vehicle insurance coverage.

COACH FINAL RECORD

The Coach Final Record is a record of all data pertaining to the assembly of the vehicle. This record is included in the technical publications package supplied with the vehicle. Retain this record in the company records office for reference and safe-keeping.

A

A/C CONDENSER COMPARTMENT.....	10
ACCELERATOR PEDAL	49
ACCESSORIES.....	28
ACTIVE INDICATOR	122
ADJUSTABLE AIR REGISTERS	23
AIR FILTER RESTRICTION INDICATOR.....	98
AIR FILTERS.....	98
AIR HORN	49
AIR REGISTERS	42
AIR SYSTEM	116
AIR TANK PURGE.....	96
ALIGNMENT SPECIFICATIONS.....	117
ALLISON TRANSMISSION ELECTRONIC CONTROL UNIT (ECU)	62
ALLISON TRANSMISSION	50, 116, 118
OPERATION	50
ANTILOCK BRAKING SYSTEM.....	63, 116
TROUBLESHOOTING AND TESTING.....	116
APPENDIX.....	135
ASHTRAY.....	33
AUDIBLE ALERTS.....	86

B

BACK UP CAMERA.....	15, 86, 98
BAGGAGE COMPARTMENTS	9
BELT TENSION ADJUSTMENT	97
BELTS.....	116
BLOCK HEATER CONNECTOR (110-120 VOLTS)	15
BRAKE PEDAL.....	49
BRAKES.....	116
BRAKE CHAMBER EFFECTIVE AREA	116

C

CABIN AIR FILTER.....	99
CAPACITIES.....	115
CARD TABLES.....	22
CARE AND MAINTENANCE	89
CARPET	90
CHANGING A WHEEL	82
CIGARETTE LIGHTER.....	33
CLEANING CABINET	93
CLEANING.....	89
CLEARING CODES.....	131
CLOCK / DIST. MODE.....	55
CLUSTER	42

COACH EXTERIOR	5
-----------------------------	----------

COACH FINAL RECORD	134
--------------------------	-----

COACH INTERIOR	17
-----------------------------	-----------

CODE READING AND CLEARING	122
COLD WEATHER STARTING.....	76
COMPARTMENT LIGHTING	85
DETROIT DIESEL ELECTRONIC CONTROL (DDEC) SYSTEM.....	53
CONTROL HEAD	40
CONTROL SWITCHES	35
CONTROLS AND INSTRUMENTS.....	27
COOLANT FLUID LEVEL.....	95
COOLANT HEATER TIMER.....	33, 65
COOLANT HEATER.....	64
COOLANT SYSTEM STRAINER.....	101
CRUISE CONTROL SWITCHES.....	31

D

DASHBOARD	34
DATA LOG MODE	60
DAYTIME RUNNING LIGHTS.....	85
DDEC IV DIAGNOSTIC CODES.....	118
DEC IV ELECTRONIC CONTROL MODULE (ECM)	54
DEFENSIVE DRIVING PRACTICES.....	3
DIAGNOSTIC CODE LIST AND DESCRIPTION.....	124
DIAGNOSTIC CODE MEMORY LIST.....	122
DIAGNOSTIC CODE RESPONSE	123
DIAGNOSTIC DATA READER (DDR) RECEPTACLE	33
DIAGNOSTIC MODE.....	58
DIFFERENTIAL	118
DIMENSIONS AND WEIGHTS	115
DOOR OPERATION LOGIC.....	13
DOT CERTIFICATION PLATE	133
DRAINING THE AUXILIARY SUMP TANK.....	92
DRAINING THE MAIN SUMP TANK	92
DRIVE AXLE.....	117
DRIVER'S AREA ADJUSTABLE AIR REGISTERS	18
DRIVER'S AREA FILTER.....	98
DRIVER'S PERSONAL COMPARTMENT KEY.....	27
DRIVER'S POWER WINDOW	24
DRIVER'S SEAT – ISRI.....	18

INDEX

- E**
- ELECTRIC HORN.....48
 - ELECTRICAL DESTINATION SIGN.....17
 - ELECTRICAL SYSTEM.....116
 - ELECTRICALLY ADJUSTED REAR VIEW MIRRORS (RAMCO).....15
 - ELECTRONIC DESTINATION SIGN.....17
 - EMERGENCY AIR-FILL VALVES83
 - EMERGENCY AND PARKING BRAKES ..84
 - EMERGENCY DOOR OPENING.....13
 - EMERGENCY EQUIPMENT80
 - EMERGENCY EXITS79
 - ENGINE BLOCK HEATER77
 - ENGINE COMPARTMENT COMPONENTS7
 - ENGINE COMPARTMENT CURB-SIDE DOOR..... 8
 - ENGINE COMPARTMENT REAR DOOR 8
 - ENGINE COMPARTMENT8
 - ENGINE OIL LEVEL93
 - ENGINE OIL101
 - ENGINE TROUBLESHOOTING FLOWCHART121
 - ENGINE WARM-UP.....77
 - ENGINE116, 118
 - ENTRANCE DOOR OPENING EXTERIOR OPERATING SWITCH.....13
 - ENTRANCE DOOR OPENING INTERIOR OPERATING SWITCHES.....13
 - ENTRANCE DOOR12, 80
 - EPA ENGINE LABEL.....133
 - EVAPORATOR COMPARTMENT11
 - EVENT COUNTER122
 - EXTERIOR DOOR LOCKS KEY27
 - EXTERIOR SURFACES90
- F**
- FAN GEARBOX.....118
 - FILLING THE MAIN SUMP TANK92
 - FIRE EXTINGUISHERS80, 97
 - FIRE HATCHET.....81
 - FIRST AID KIT81
 - FIRST SERVICE ON NEW VEHICLE101
 - FLOOR CLEANING90
 - FLUID FILTER101
 - FLUID LEVEL SENSOR (OLS) CODES131
 - FLUID LEVEL VERIFICATION93
 - FOG LIGHTS85
 - FOLDING TRAYS.....22
 - FOOT-OPERATED CONTROLS.....49
- FOREWORD 1**
- FORMICA90
 - FRESH WATER RESERVOIR.....92
 - FRONT AXLE117
 - FRONT ELECTRICAL AND SERVICE COMPARTMENT.....10
 - FUEL ECONOMY MODE55
 - FUEL FILLER DOORS9
 - FUEL FILTER / WATER SEPARATOR97
 - FUEL TYPE115
 - FUNCTIONS OF THE "MODE" BUTTON...50
- G**
- GALLEY25
 - GAUGE MODE55
 - GAUGES42
 - GENERAL RECOMMENDATIONS101
- H**
- HAND TOWEL DISPENSER KEY27
 - HEATING AND AIR CONDITIONING117
 - HI-BUOY63
 - HOSE INSPECTION.....99
 - HUBODOMETER15
 - HVAC CONTROL UNIT.....40
 - HYDRAULIC JACK.....84
- I**
- IGNITION CYCLE COUNTER122
 - IGNITION KEY.....27
 - IGNITION SWITCH.....28
- INDEX..... 137**
- IN-STATION LIGHTING64
 - INTERIOR APPOINTMENTS73
 - INTERIOR MIRRORS.....18
- J**
- JACK AND TOOLS.....81
 - JACKING POINTS.....84
 - JACOBS ENGINE BRAKE62
 - JUMP STARTING76
- K**
- KEYS27
 - KNEELING SYSTEM.....63
- L**
- L.H. DASHBOARD PANEL35

LATERAL CONTROL PANEL.....	31	PNEUMATIC ISRI SEAT	20
LAVATORY DOOR LOCK KEY	27	POWER STEERING FLUID LEVEL.....	94
LAVATORY MAINTENANCE.....	91	POWER STEERING RESERVOIR.....	118
LAVATORY	25	POWER WINDOW SWITCH	33
LIGHT BULB DATA	132	PRE-HEATING SYSTEM	118
LIMP-HOME BELT.....	81	PRODRIVER™.....	61
LOW BUOY CONTROL VALVE	33	Q	
LOW-BUOY.....	63	QUICK-LOUNGDGE SYSTEM.....	23
LUBRICANT SPECIFICATIONS.....	108	R	
LUBRICATION AND SERVICING		R.H. DASHBOARD PANEL.....	39
SCHEDULE.....	105	RADIATOR DOOR	14
LUBRICATION.....	99	RADIATOR FAN GEARBOX OIL LEVEL.....	95
M		RADIO	40
MAIN CODE	122	RANGE SELECTION-PUSH BUTTON	
MAIN POWER COMPARTMENT		SHIFTER	50
(BATTERY)	9	READING LIGHTS.....	23
MECHANICAL ISRI SEAT	19	REAR ELECTRICAL COMPARTMENT	12
MESSAGE CENTER DISPLAY (MCD).....	42	REAR VIEW MIRRORS.....	14
MESSAGE CENTER DISPLAY(MCD)	54	RECOMMENDED TIRE INFLATION	
MICROPHONE JACKS.....	22	PRESSURE AT MAXIMUM COLD LOAD..	115
MIRROR CONTROLS	32	RETRACTABLE TAG AXLE	64
MUD FLAPS AND SPLASH GUARDS	85	ROOF HATCH.....	79
MULTI-FUNCTION LEVER.....	48	ROUTINE INSPECTION.....	99
N		WITH ENGINE RUNNING	101
NOTICE.....	136	WITH ENGINE STOPPED.....	99
O		RUBBER COMPONENTS	90
OIL SPECIFICATIONS	118	S	
OPERATING THE RETARDER USING		SAFE OPERATING PRACTICES	3
THE BRAKE PEDAL.....	52	SAFETY BELTS	20
OPERATING THE RETARDER USING		SAFETY CERTIFICATION	133
THE HAND LEVER.....	52	SAFETY FEATURES AND EQUIPMENT.79	
OPERATING THE RICON		SAFETY PRECAUTIONS	3
WHEELCHAIR LIFT.....	68	SEAT UPHOLSTERY	89
OPERATING THE ST.& ST. LIFT.....	70	SERVICE BELL	23
OTHER FEATURES	53	SERVICE LITERATURE.....	135
OTHER VERIFICATIONS.....	96	SET UP MODE	56
OVERHEAD COMPARTMENTS	25	SIDE WINDOWS	79
OVERHEAD CONSOLE	23	SPARE PARTS KIT	81
P		SPARE WHEEL AND TIRE	82
PANORAMIC WINDOWS	24	SPARE WHEEL COMPARTMENT	10
PARKING BRAKES CONTROL VALVE	33	STAINLESS STEEL.....	90
PART NUMBER SPECIFICATIONS.....	109	START	28
PASSENGER SEATS.....	22	STARTING AND STOPPING	
PASSWORDS	61	PROCEDURES	75
PLASTIC AND VINYL.....	90	STARTING FROM THE DRIVER'S SEAT ...	75
PLATES AND CERTIFICATION.....	132		

INDEX

STARTING FROM THE ENGINE COMPARTMENT.....	75	WHEELS AND TIRES	115
STARTING THE ENGINE.....	75	WINDOWS.....	24, 90
STEERING COLUMN CONTROLS.....	48	WINDSHIELD WASHER RESERVOIR.....	96
STEERING WHEEL ADJUSTMENT UNLOCK AIR VALVE	49	WORLD TRANSMISSION (WT) DIAGNOSTIC CODES.....	122
STEERING WHEEL ADJUSTMENT.....	18		
STEERING.....	116		
SUB CODE	122		
SUSPENSION.....	117		
SWITCHING THE HEATER OFF	65		
SWITCHING THE HEATER ON	65		
SWIVEL SEATS	22		
T			
TAG AXLE CONTROL VALVE	32		
TAG AXLE	117		
TECHNICAL INFORMATION.....	111		
TELLTALE PANEL.....	44		
TOUR GUIDE SEAT	21		
TOWING	85		
TRAILER HITCH.....	15		
TRANSMISSION CONTROL PAD.....	31		
TRANSMISSION FLUID LEVEL	93		
TRANSMISSION OUTPUT RETARDER...52			
TRANSMISSION RETARDER.....	62		
TRANSMISSION WARM-UP	77		
TV MONITOR KEY	28		
U			
UTILITY COMPARTMENT KEY	27		
UTILITY COMPARTMENT	33		
UTILITY COMPARTMENTS.....	17		
V			
VCR COMPARTMENT KEY	28		
VEHICLE CLEARANCE INFORMATION....	44		
VEHICLE IDENTIFICATION NUMBER (VIN).....	134		
VENTILATION HATCH.....	25		
W			
WALK-AROUND INSPECTION.....	104		
WARNING REFLECTORS	81		
WASTE CONTAINER	25		
WHEEL BEARING OIL LEVEL	95		
WHEEL BEARINGS.....	118		
WHEELCHAIR LIFT AND ACCESS DOORS.....	67		
WHEELCHAIR LIFT DOOR.....	14		
WHEELCHAIR LIFT.....	67		

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PREVOST PARTS INC.

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Specify the complete vehicle serial number. Allow 30 days for delivery

APPENDIX

NOTICE

DECLARATION OF THE MANUFACTURING DEFECTS TO THE GOVERNMENT OF THE UNITED STATES

If you believe that your vehicle has defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Prevest Car Inc..

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign.

However, NHTSA cannot become involved in individual problems between you, your dealer, or Prevest Car Inc..

To contact NHTSA you may either call the Auto Safety Hotline toll-free at **1-800-424-9393** (or **366-0123** in Washington, D.C. area) or write to:

**NHTSA
U.S. Department of transportation
Washington, D.C. 20590.**

You can also obtain other information about motor vehicle safety from the Hotline.

DECLARATION OF THE MANUFACTURING DEFECTS TO THE CANADIAN GOVERNMENT

If you stay in Canada, and if you believe that your vehicle has a safety defect, you should immediately inform Transport Canada and Prevest Car Inc. You may write to:

**Transport Canada
Box 8880
Ottawa, Ontario, K1G 3J2**

DECLARATION OF THE MANUFACTURING DEFECTS TO PREVOST CAR INC.

In addition to notify the NHTSA (or Transport Canada), please contact Prevest Car at **1-418-831-2046**. Or you may write to :

**Prevest Car Inc.
After-sales service department
850 ch. Olivier,
Saint-Nicolas (Quebec)
Canada, G7A 2N1**