

SECTION 23: ACCESSORIES

CONTENTS

1.	HUBODOMETER	23-3
1.1	Description.....	23-3
1.2	Operation.....	23-3
1.3	Removal.....	23-3
1.4	Installation.....	23-3
2.	SOUND SYSTEM.....	23-3
2.1	AM/FM Radio Cassette Player.....	23-3
2.2	Amplifier.....	23-4
2.3	Public Address System Control Box (PA).....	23-4
3.	INVERTER.....	23-5
4.	COLD-STARTING AID (ETHER).....	23-5
4.1	Preventive Maintenance.....	23-6
4.2	Troubleshooting (If System Is Non-functioning).....	23-6
4.3	Thermal Cutout Valve Quick Test.....	23-7
5.	DESTINATION SIGN	23-7
5.1	Description.....	23-7
5.2	Maintenance	23-7
5.3	Electric Motor Removal and Installation.....	23-8
5.4	Destination Sign Light Replacement.....	23-8
5.5	Sign Curtain Repair	23-8
6.	LAVATORY	23-8
6.1	Description.....	23-8
6.2	Maintenance	23-11
6.2.1	Fresh Water Reservoir Draining	23-11
6.2.2	Fresh Water Reservoir Filling	23-11
6.2.3	Main Sump Tank Draining	23-11
6.2.4	Main Sump Tank Filling	23-11
6.2.5	Auxiliary Sump Tank Draining	23-11
6.2.6	Cleaning Cabinet.....	23-11
6.3	Ventilation Fan.....	23-12
6.3.1	Description	23-12
6.3.2	Maintenance.....	23-12
6.3.3	Removal and Installation.....	23-12
6.4	Door Lock	23-13
6.5	Lavatory Light	23-13
6.6	Lavatory Night-light.....	23-13
6.7	Emergency Buzzer Switch	23-13
6.8	Fresh Water Tank Removal	23-13
6.8.1	Fresh Water Tank Heater	23-14
6.9	Liquid Soap Dispenser	23-14
6.10	Flush Push-button	23-14
6.10.1	Pneumatic Timer Removal and Installation.....	23-15
6.10.2	Timer Adjustment.....	23-15
6.11	Flush Pump.....	23-15
6.11.1	Removal	23-15
7.	WINDSHIELD WIPER MOTOR	23-15
7.1	Removal and Installation.....	23-15
8.	SPECIFICATIONS	23-17

LIST OF ILLUSTRATIONS

FIG. 1: HUBODOMETER	23-3
FIG. 2: AM/FM RADIO CASSETTE PLAYER.....	23-3
FIG. 3: DRIVER'S FEET - AMPLIFIER AND PUBLIC ADDRESS SYSTEM CONTROL BOX LOCATION.....	23-4
FIG. 4: FIRST PARCEL RACK (BEHIND DRIVER) - AMPLIFIERS LOCATION ON XL-45 COACH.....	23-4
FIG. 5: PUBLIC ADDRESS SYSTEM CONTROL BOX (PA).....	23-5
FIG. 6: REAR L.H. SIDE BAGGAGE COMPARTMENT CEILING	23-5
FIG. 7: ENGINE	23-6
FIG. 8: COLD STARTING AID	23-6
FIG. 9: DESTINATION SIGN - MANUAL.....	23-7
FIG. 10: DESTINATION SIGN - ELECTRICAL	23-7
FIG. 11: DESTINATION SIGN - ELECTRICAL	23-8
FIG. 12: LAVATORY.....	23-8
FIG. 13: FUNCTIONING OF THE LAVATORY	23-10
FIG. 14: ENGINE R.H. SIDE DOOR (SUMP TANK).....	23-11
FIG. 15: LAVATORY ACCESS DOOR	23-12
FIG. 16: VENTILATION FAN.....	23-12
FIG. 17: DOOR LOCK	23-13
FIG. 18: FRESH WATER TANK ACCESS PANEL	23-14
FIG. 19: LIQUID SOAP DISPENSER	23-14
FIG. 20: WINDSHIELD WIPER MOTOR	23-16

1. HUBODOMETER

1.1 Description

An optional wheel hubodometer (Fig. 1) may have been installed on the R.H. side of the drive axle. It indicates the total distance in miles or kilometers covered by the coach since it has left the factory, including road testing.

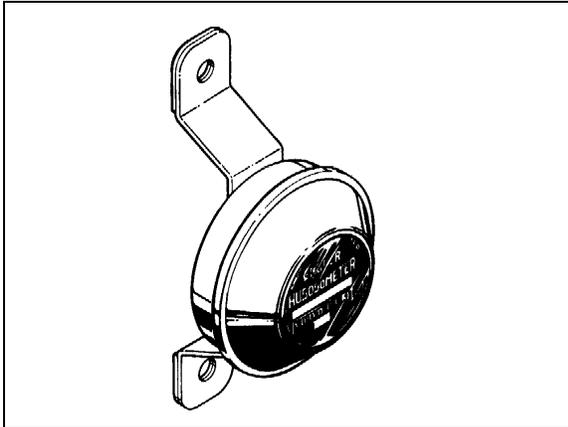


FIGURE 1: HUBODOMETER

23027

1.2 Operation

The hubodometer is calibrated for a specific wheel size (diameter). Wheel rotation causes a mechanism inside the hubodometer to record distance after a predetermined number of rotations. The unit should be serviced at a competent speedometer repair facility.

Note: Do not use paint, solvent or thinner on hubodometer face or on plastic hubcaps. Do not weld on hubodometer.

1.3 Removal

To remove the unit, remove the two lock nuts and washers securing it to the wheel hub, and pull the unit off the studs.

1.4 Installation

Place the hubodometer unit over the wheel hub studs. Replace the lock washers and nuts. Torque stud nuts to 110-165 lbf•ft (150-225 N•m).

2. SOUND SYSTEM

Twelve (XL-40) or fourteen (XL-45) hi-fi speakers in passenger section, a PA system with volume control and one microphone outlet mounted in driver's area are provided as standard equipment. A "Blaupunkt" AM/FM radio cassette player, a 10 disc CD changer, two additional hi-fi speakers in driver's area, as well as different microphone outlets, may have been installed as optional equipment.

Note: Before attempting to solve an electrical problem on the sound system, refer to master wiring diagrams and to the "Sound System Troubleshooting" later in this section.

2.1 AM/FM Radio Cassette Player

Instructions for proper use of the radio are included in the "Blaupunkt Owner's Manual" which is provided in the technical publications box delivered with the vehicle. The radio is a serviceable component and should only be serviced by a qualified electronics technician. Refer to "Blaupunkt Service Centers" guide included in the technical publications box. Before requesting any service from a qualified technician, check the two protection fuses located in the black box behind the radio (refer to "Blaupunkt Owner's Manual" for more information).

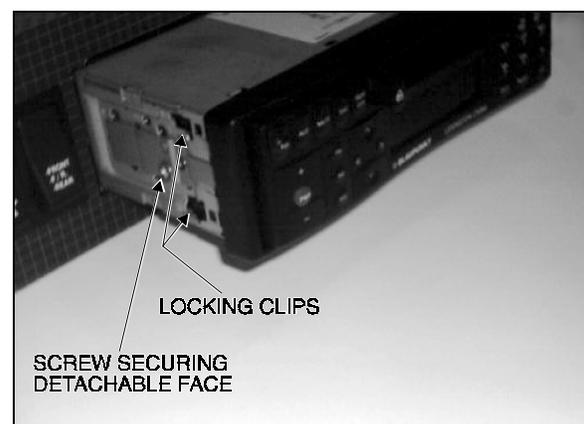


FIGURE 2: AM/FM RADIO CASSETTE PLAYER

23028

To remove the radio from its location, proceed as follows:

1. Remove the four Phillips-head screws retaining the R.H. lower control panel to the dash-board.
2. Carefully pull out panel slightly from dash-board.
3. To unfasten the radio from its support, push in the four locking clips with pens (Fig. 2).
4. Disconnect all wires from radio.
5. If you need to remove face, remove screw securing detachable face (Fig. 2).

To reinstall, reverse removal procedure.

2.2 Amplifier

On XL-40 coach (one) 80 watts amplifier is provided and located at driver's feet. On XL-45 coach (two) 80 watts amplifiers are provided for the sound system and they are located in the first parcel rack (behind driver). Remove the amplifier(s) as follows:

1. Set the battery main disconnect switch to the "OFF" position. Refer to Section 6: "Electrical System" for switch location.

On XL-40 coach: Remove the "Phillips-head" screws retaining the amplifier protector. Remove the amplifier protector (Fig. 3).
On XL-45 coach: Remove the "Phillips-head" screws (Fig. 4) retaining the amplifier plastic cover. Remove the amplifiers plastic cover.

2. Disconnect wiring connectors from both sides of amplifier(s).
3. On XL-40 coach: Remove the four amplifier retaining screws. Then take out amplifier from its location.
On XL-45 coach: Remove the four bolts and nuts retaining mounting bracket to the structure. Then take out amplifiers from their location. Remove the four screws retaining amplifiers to their mounting bracket.
4. Reverse the removal procedure to install the amplifier(s).

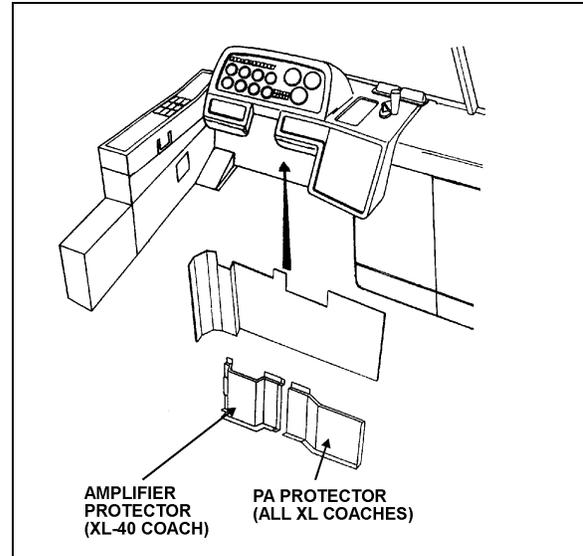


FIGURE 3: DRIVER'S FEET - AMPLIFIER AND PUBLIC ADDRESS SYSTEM CONTROL BOX LOCATION 23046

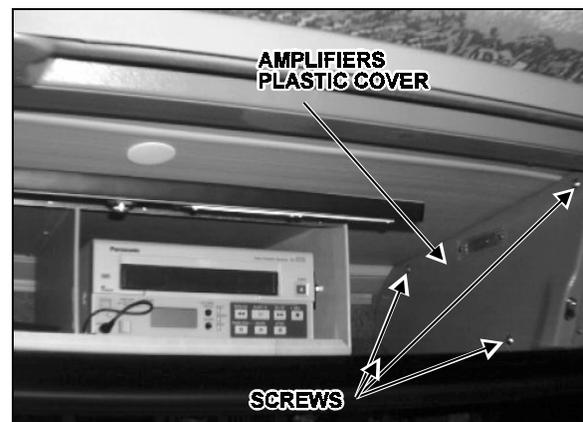


FIGURE 4: FIRST PARCEL RACK (BEHIND DRIVER) - AMPLIFIERS LOCATION ON XL-45 COACH 23047

2.3 Public Address System Control Box (PA)

The public address system control box is located at driver's feet (Fig. 3). A one ampere cartridge-type fuse Prévost # 562129 is mounted in an external holder of the box and may be checked without removing the box from its location (Fig. 5). To remove the fuse, unscrew the fuse cap. Remove the fuse from its holder with the cap as the cap is removed. The fuse may then be pulled out from the cap. Always replace a fuse with a fuse of the same type and rating.

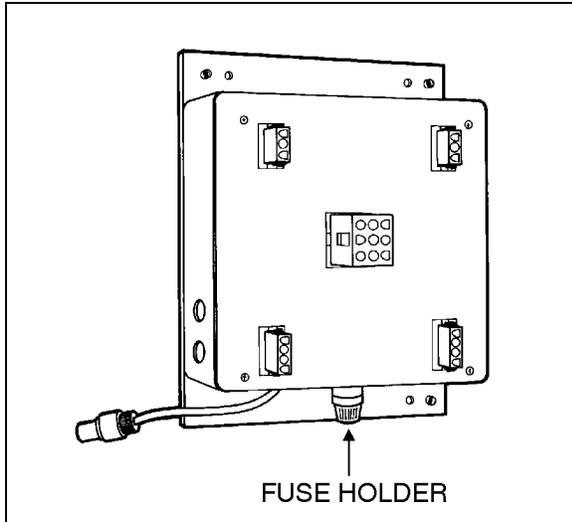


FIGURE 5: PUBLIC ADDRESS SYSTEM CONTROL BOX (PA) 23031

3. INVERTER

The vehicles equipped with the optional video system and TV monitors are provided with an inverter which is recessed in the rear L.H. side baggage compartment ceiling (Fig. 6). The inverter is used to convert the 12 volts DC into 120 volts AC. Two 40 amperes ATO fuses, easily replaceable, are mounted in the front panel external holders. A troubleshooting guide and an internal component wiring diagram of the inverter are included in the leaflets entitled "Powerverter Operating and Installation Instructions", which are included in the technical publications box delivered with the vehicle.

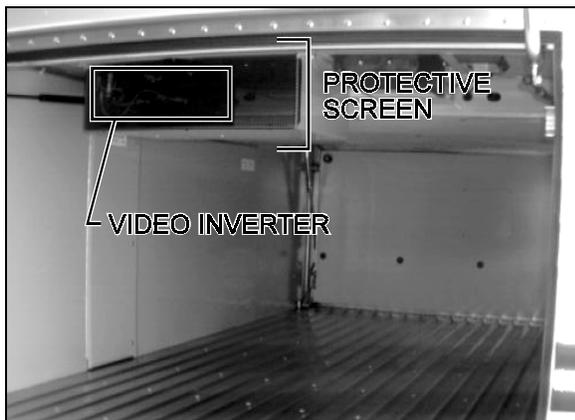


FIGURE 6: REAR L.H. SIDE BAGGAGE COMPARTMENT CEILING (VIDEO INVERTER) 06104

4. COLD STARTING AID (ETHER)

The vehicle can be equipped with an electrically-operated type ether cold starting aid designed to ease engine starting when temperature is below 35 °F (2 °C).

On vehicles equipped with cold starting aid, the system consists of the main following parts:

- Ether starting aid switch
- Ether cylinder
- Solenoid valve (24 V)
- Thermal cutout valve
- Atomizer

The control rocker switch is located near the ignition switch on the L.H. lower switch panel. This switch is provided with a locking mechanism to avoid accidental use when engine is running. To activate the ether starting aid, proceed as follows:

1. Prior to cranking engine, slide down lock tab while pressing rocker switch for three seconds to fill solenoid valve.
2. Release switch to discharge shot.
3. Allow three seconds for shot to discharge.
4. Start engine, use additional shots if necessary to keep engine running.

Caution: This practice should be performed only when absolutely necessary. Excessive use of fluid could result in serious engine damage.

The ether cylinder and solenoid valve assembly are mounted in the engine compartment, above rear doors (see near the engine oil reserve tank).

The thermal cutout valve is mounted on the engine (radiator side). Its function is to prevent discharge of ether when engine is warm (over 90 °F (32 °C)). An atomizer is installed on top of air intake duct (Fig. 7).

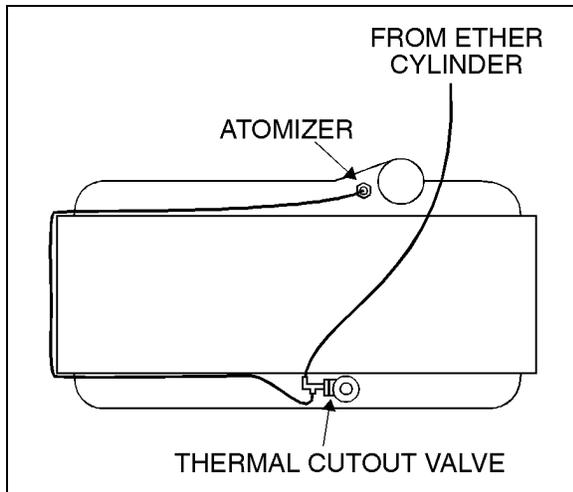


FIGURE 7: ENGINE

23032

4.1 Preventive Maintenance

During the summer months, remove cylinder to avoid high temperature actuation of the cylinder safety relief device. Always screw valve cap into solenoid valve opening to prevent entrance of road dirt. When removing cylinder, be careful to prevent dirt from entering the valve.

4.2 Troubleshooting (If System Is Non-functioning)

Warning: During the following test, direct free end of tube away from personnel and all sources of ignition as this fuel is extremely flammable. Avoid breathing vapors and contacting fuel with skin. Never smoke during test.

1. Check cylinder for hand tightness and fuel supply (Fig. 8). Empty cylinder weight is approximately 17 oz (480 g); full cylinder weight is approximately 35 oz (990 g). If cylinder is empty, replace it. Before replacing cylinder, install new valve gasket in solenoid valve.
2. If still not functioning, disconnect tubing at solenoid valve fitting. Actuate solenoid valve. (Ask an assistant to actuate solenoid valve by means of the rocker switch on the L.H. lower switch panel.)
 - If solenoid valve is non-functioning, check electric circuit, (refer to wiring diagrams). If sound, remove and replace the solenoid valve. If not, repair electric circuit.

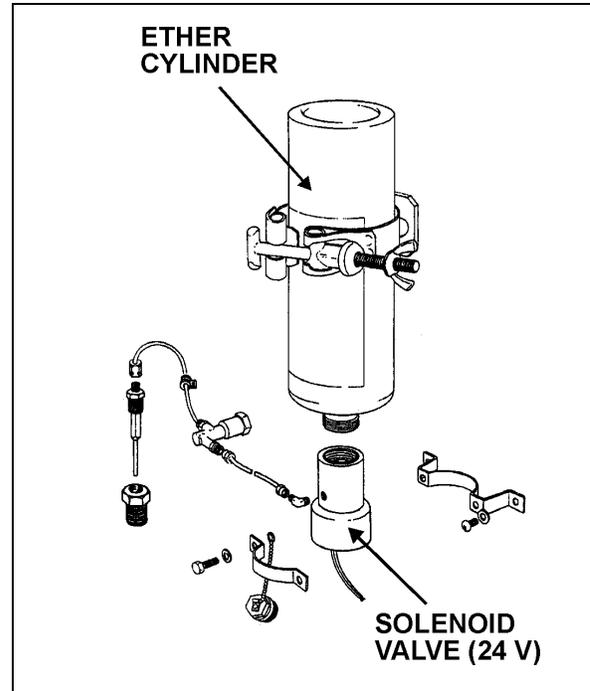


FIGURE 8: COLD STARTING AID

23048

- If valve is functioning, reassemble valve fitting and connect tube. Disconnect tube at thermal cutout valve from port "Tube from valve".
3. Actuate the solenoid valve.
 - If fuel is not discharged from tube, remove tube and blow out or replace.
 - If fuel is discharged, connect tube to thermal cutout valve, and disconnect other tube.
 4. Actuate the solenoid valve.
 - If fuel is not discharged, replace the cutout valve.
- Note:** If engine coolant temperature is 90 °F (32 °C) or over, it is normal that fuel is not discharged as the valve is in closed position.
- If fuel is discharged, connect tube to thermal cutout valve, and disconnect tube from atomizer.
5. Actuate the solenoid valve.
 - If fuel is not discharged from tube, fuel line is clogged. Remove tube and blow out or replace.
 - If fuel is discharged, replace the atomizer.

4.3 Thermal Cutout Valve Quick Test

1. Engine coolant temperature must be below 90 °F (32 °C).
2. Temporarily disconnect tube at thermal cutout valve from port "Tube to atomizer".
3. Actuate solenoid valve (Ask an assistant to actuate solenoid valve by means of the rocker switch on the L.H. lower switch panel). Fuel should be discharged through the thermal cutout valve.

Warning: Avoid breathing vapors and contacting fuel with skin. Never smoke during test.

4. Reconnect tube to thermal cutout valve.
5. Start engine, using cold starting aid if necessary. Stop engine when it reaches operating temperature.
6. Disconnect tube at thermal cutout valve as in step 2, and repeat step 3. No fuel should be discharged.

5. DESTINATION SIGN

5.1 Description

The destination sign is located at upper front of the vehicle. Two models are available.

The first model is manual (Fig. 9). The lighting is provided with bulb light. To change the name on your destination sign simply pull to unlock handle and rotate until sign shows desired destination. Release handle to lock.

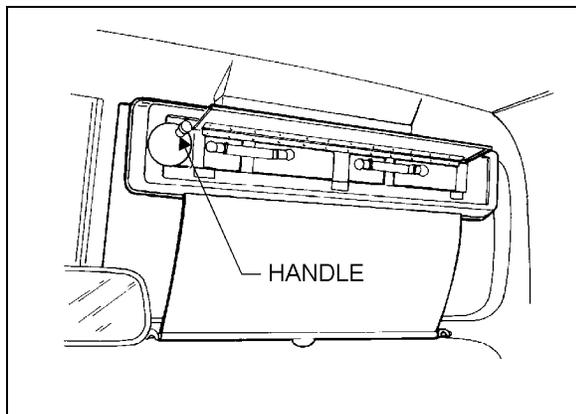


FIGURE 9: DESTINATION SIGN - MANUAL

23017

The second model is electrical (Fig. 10). The lighting is provided with a fluorescent tube. The destination sign is electrically operated. Its motor is controlled by two rocker switches mounted side by side on the destination sign. The small one determines the rolling speed without actuating it. The larger switch (momentary type) controls and actuates the rolling direction (forward or backward).

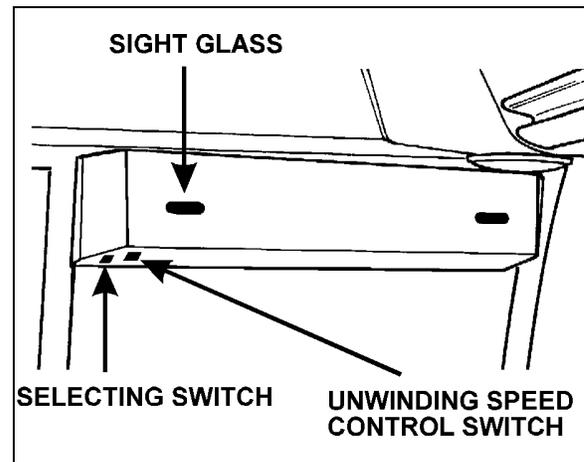


Figure 10: DESTINATION SIGN - ELECTRICAL

23049

Note: Both destination sign model are equipped with lights (bulb light or fluorescent) which illuminates automatically when the headlight or fog light switch is activated.

5.2 Maintenance

Inspect the following items regularly:

1. Check for free and easy mechanism movement.
2. Check for loose items on the sign mechanism, such as wire, loose clips, hanging tape, etc.
3. Check tension and condition of the two drive belts and replace as required.
4. Periodic lubrication is **NOT** recommended.

5.3 Electric Motor Removal and Installation

To remove the electric motor:

1. Remove the six Phillips-head screws and washers retaining the destination sign cover,

then carefully remove the cover from its location.

2. Disconnect wires from electrical motor.
3. Remove both screws retaining motor to destination sign frame (Fig. 11).

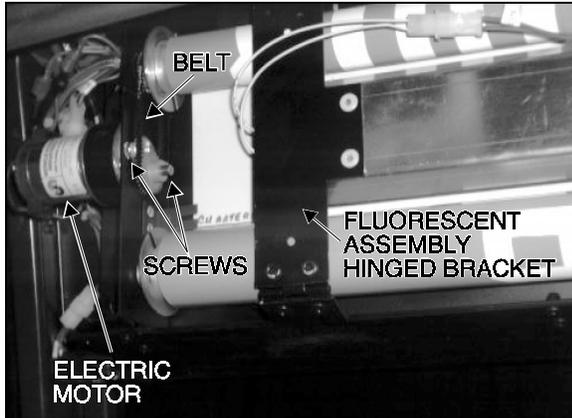


FIGURE 11: DESTINATION SIGN - ELECTRICAL 23034

4. Slide motor upwards, then remove the drive belt.
5. Remove motor through the opening intended for this purpose.
6. Install the motor by reversing the above procedure.

5.4 Destination Sign Light Replacement

Refer to Section 06, Electrical System, paragraph "13.4.7 Destination Sign Light - Bulb Removal and Replacement" and "13.4.8 Destination Sign - Fluorescent Removal and Replacement".

5.5 Sign Curtain Repair

In the event a destination sign curtain is torn, it can be repaired with 3M polyester tape or any equivalent cellophane tape. When repairing a tear, the tape should be used on both sides of the curtain.

6. LAVATORY

6.1 Description

The lavatory is located in the rear R.H. corner of coach and may be equipped with the following items:

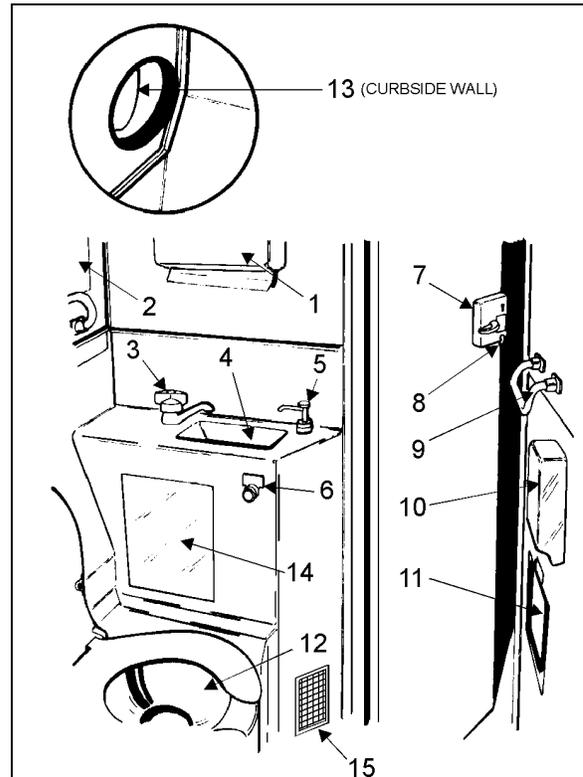


FIGURE 12: LAVATORY 23050

- 01 Towel dispenser
- 02 Mirror
- 03 Water supply valve (faucet)
- 04 Washbasin
- 05 Liquid soap dispenser
- 06 Flush button (timed)
- 07 Door handle
- 08 Door lock
- 09 Grip handle
- 10 Hygienic toilet tissue dispenser
- 11 Waste paper container (trap)
- 12 Toilet

- 13.....Access door (cleaning)
- 14..... Access plate
- 15..... Exhaust grill

An immersion water heater for the lavatory fresh water tank is also available; it can be connected to a 110-120 volt AC power source through an extension cord by the engine oil reserve tank filling door.

Locking the lavatory door from the inside will illuminate the lavatory light, an exterior "occupied" sign and an indicator light on Dashboard. Compartment night-light is lit when vehicle headlights are "ON".

An access door is also provided on curbside wall to facilitate lavatory compartment cleaning (13, Fig. 12). This door can only be opened from the outside.

If emergency assistance is required, the lavatory occupant can actuate a buzzer that will sound in driver's area. The buzzer's push-button (c/w instruction label) is located on the inner curbside wall of lavatory.

Also, a drain hole located on lavatory floor drain water splashed on the floor to the engine R.H. side compartment.

The lavatory has it's own ventilation system that operates only when ignition switch is in the "ON" position.

An auxiliary sump tank (Fig. 14) (optional) allows main tank to be drained by manually opening an interconnecting tank valve (4, Fig. 14). Lavatory can then be operated for longer periods until coach can be serviced at a facility equipped for disposal.

The fresh water tank, located behind compartment mirror (Fig. 13), may be equipped with a thermal drain valve that will drain the tank when water temperature approaches the freezing point preventing damage to the tank (Fig. 13). The fresh water supplies water to the washbasin by gravity. Two tubes are connected on top of the tank. One serves as overflow as well as a vent tube and runs along the curbside wall to the engine R.H. side compartment (7, Fig. 14) while the other tube is connected to the fresh water fill connection which is also located in engine R.H. side compartment (2, Fig. 14). A third tube connected in the bottom of the fresh water tank allows fresh water to flow to the washbasin faucet. Water from washbasin drain tube flow to the main sump tank.

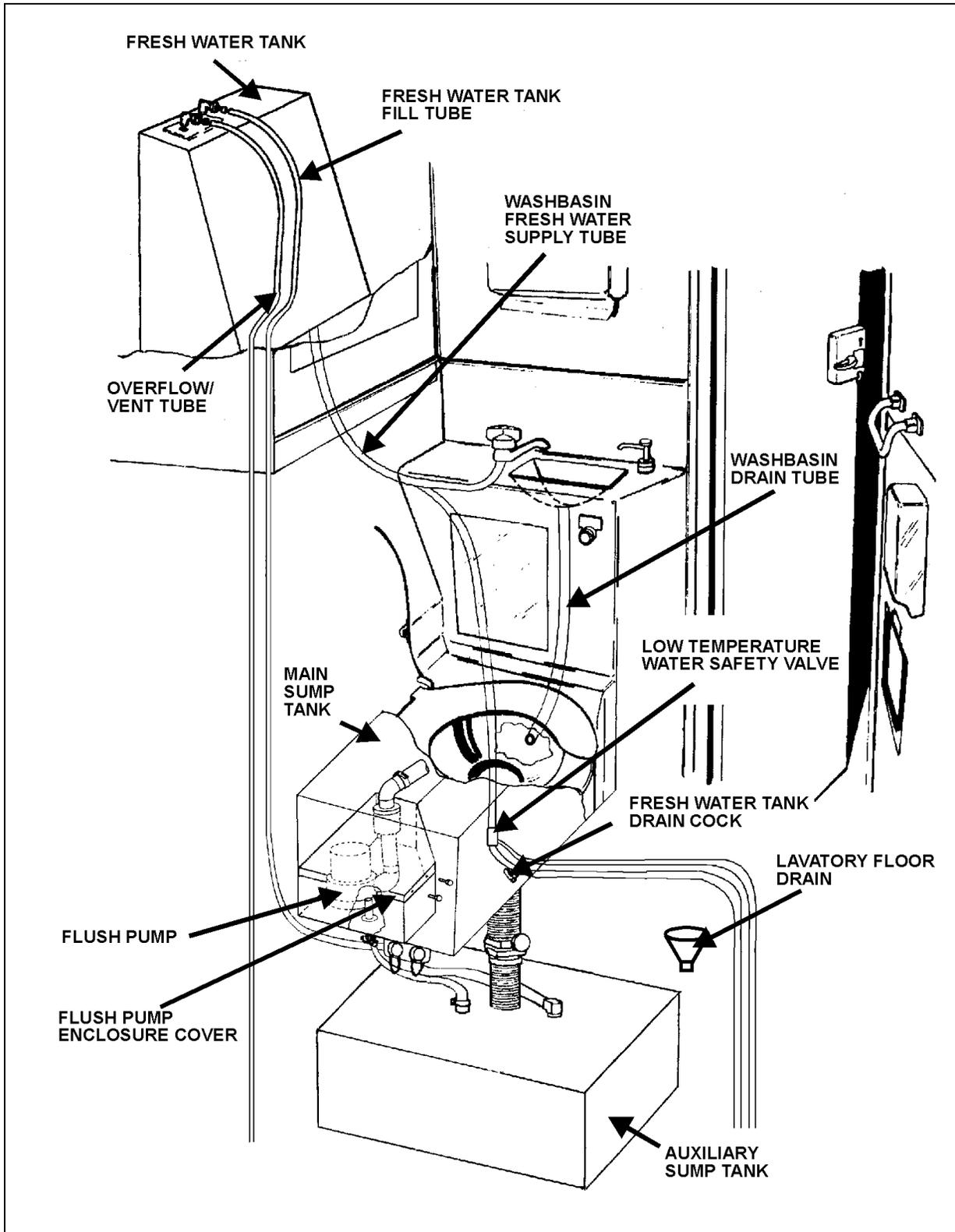


FIGURE 13: FUNCTIONING OF LAVATORY

23051

6.2 Maintenance

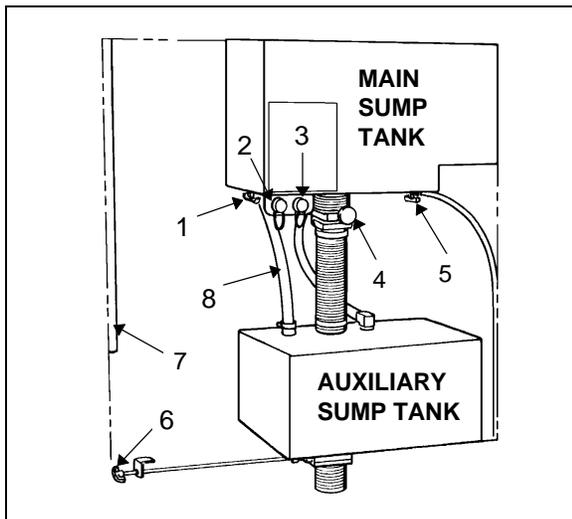


FIGURE 14: ENGINE R.H. SIDE DOOR (SUMP TANK)
23025

- 1..... Main sump tank overflow cock
- 2..... Fresh water tank fill connection
- 3..... Toilet sump tank fill connection
- 4..... Main sump tank drain valve
- 5..... Fresh water tank drain cock
- 6..... Auxiliary sump tank drain valve
(see under vehicle)
- 7..... Fresh water tank vent and overflow indicator
- 8..... Main sump tank overflow tube

Routine draining and filling of lavatory tanks should be performed by maintenance personnel only. Unless an appropriate power source (110-120 volts AC) is available to connect the optional tank heating, and if engine or heating failure occurs in extreme weather conditions, emergency draining of water tanks should be performed under the most suitable conditions and should at all times be supervised by driver.

6.2.1 Fresh Water Reservoir Draining

The fresh water reservoir can be drained by simply opening the fresh water drain cock (5, Fig. 14). Don't forget to close cock when draining is done.

Caution: If fresh water tank heater is inoperative or not installed on your vehicle, water should be drained from reservoir under cold weather conditions since it might freeze and damage both reservoir and connecting links.

6.2.2 Fresh Water Reservoir Filling

Plug the fresh water supply hose to the fresh water tank fill connection (2, Fig. 14); fill the reservoir until the overflow tube leaks, signaling that 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.

6.2.3 Main Sump Tank Draining

To drain sump tank, simply pull main sump tank drain valve until draining is done (4, Fig. 14).

6.2.4 Main Sump Tank Filling

Open the main sump tank overflow cock (1, Fig. 14) and connect a water supply hose to the toilet sump tank fill connection (3, Fig. 14). The main tank is full when water starts flowing into the auxiliary tank through the main sump tank overflow tube (8, Fig. 14). Close main sump tank overflow cock (1, Fig. 14).

Caution: In cold weather, add 2 gallons (9 liters) of antifreeze (e.g.: ethylene glycol) in the toilet before filling main tank.

6.2.5 Auxiliary Sump Tank Draining

Pull auxiliary sump tank drain valve handle. Close valve when draining is over (8, Fig. 14).

Note: It is unlawful to dump sump tank contents in any location other than those designated as such.

6.2.6 Cleaning Cabinet

The access door, located at rear of coach on R.H. side can ease cleaning of lavatory (Fig. 15). Use this door to introduce electrical cords, vacuum cleaner hoses etc..

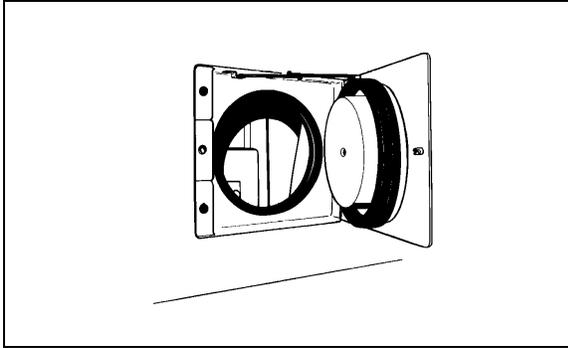


FIGURE 15: LAVATORY ACCESS DOOR

23026

When recirculating water in the toilet is soiled, drain main sump tank into the optional auxiliary tank and perform the filling procedure of the main tank.

When a full draining is required, clean main tank by repeating the draining and filling operations while leaving the auxiliary sump tank drain cock opened. Close cocks and pour a pack of commercial toilet deodorant (Prévost part #900329) in toilet before adding the antifreeze and starting final filling of main tank.

Warning: *The toilet deodorant contains products that can be very irritating to skin. Use rubber gloves when handling and then clean toilet seat.*

Warning: *Antifreeze must comply with the effective environmental act.*

Caution: *When cold weather is expected and there is no antifreeze in the tank, both sump tanks must be drained.*

Note: *If there is no antifreeze solution in the tank, there is less risk of freezing if engine is operating due to the heat it produces.*

New vehicles do not have an antifreeze solution in the sump tanks at time of delivery.

6.3 Ventilation Fan

6.3.1 Description

The lavatory ventilation fan, mounted in engine compartment behind the oil reserve tank (Fig. 16), serves two purposes. It exhausts objectionable odors and provides a constant air circulation in the lavatory compartment by heating or cooling the lavatory with the vehicle ambient air.

Air flows in the lavatory compartment through a vent grill located on the lavatory door and exhausts through a grills located next to the toilet (15, Fig. 12).

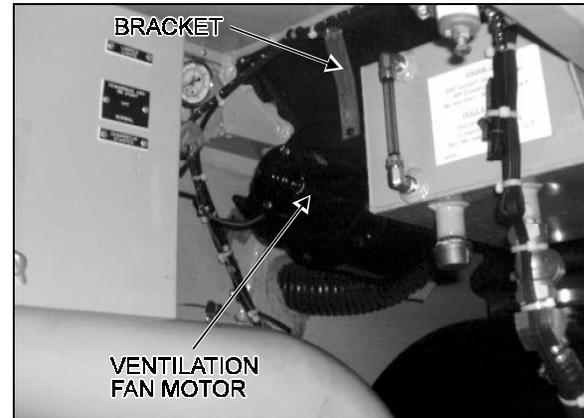


FIGURE 16: VENTILATION FAN

23052

Note: *This fan runs only when ignition switch is in the "On" position.*

6.3.2 Maintenance

The frequency of preventive maintenance should be determined according to vehicle mileage and operating conditions. However, it is recommended to check this item every 50,000 miles (80 000 km) or once a year, whichever comes first.

Remove fan and motor assembly. Check for fan housing wheel and motor free operation. When defective motor occurs, new motor must be installed.

6.3.3 Removal and Installation

1. With the engine compartment rear door opened, remove hose clamp securing duct to ventilator inlet, and disconnect duct.
2. Disconnect the ventilator motor wiring connector.
3. Remove the support bracket screw (Fig. 16). Remove the three ventilator fan housing bolts. Remove the ventilator assembly from its location.
4. The unit can now be disassembled and motor replaced.
5. Reverse previous steps to reinstall ventilator assembly on vehicle.

6.4 Door Lock

Lavatory door lock has inside and outside handles, as well as an inside latch to lock door from inside the compartment. If the lock fails to release, the door can be opened from the outside using a special key which is supplied to the driver. Lock assembly can be removed from the door, then readily disassembled and parts replaced, if necessary (Fig. 17). A thin coat of lubricant on all moving parts will ensure trouble-free operation.

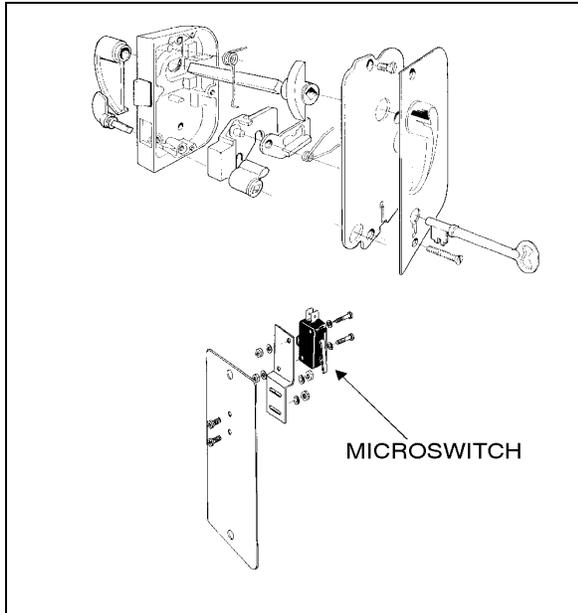


FIGURE 17: DOOR LOCK

23037

6.5 Lavatory Light

The lavatory light is installed on ceiling. A microswitch, which is mounted in the door exterior frame, is activated by the door lock mechanism upon locking to energize the circuit. This switch is readily serviced by removing the two Phillips-head screws securing the mounting plate to the door exterior frame.

Proceed as Section 06, Electrical System, paragraph "13.3 Dome, Rear Roof and Lavatory Lights" for lights replacement.

6.6 Lavatory Night-light

The lavatory night-light is illuminated as soon as the ignition switch is set to the "ON" position. See Section 06, Electrical System, paragraph "13.4.4 Parcel Rack / Lavatory Night Light - "Bulb Removal and Replacement" for lights replacement.

6.7 Emergency Buzzer Switch

The lavatory emergency buzzer is mounted on the inner curb side wall of lavatory and sounds when the emergency call push-button switch in the lavatory compartment is activated. For specific wiring information, refer to wiring diagrams. To remove the emergency call push-button switch, proceed as follows: Pry out the switch with a flat head screwdriver and remove it.

6.8 Fresh Water Tank Removal

Two panels allow access to the fresh water tank. One is located at rear of last R.H. side seats (Fig. 19) and secured in place with Phillips-head screws (if fresh water tank has to be removed use this access). The other access is located behind the toilet mirror. Remove the tank as follows:

1. Remove the mirror and the access panel.
2. Remove the fresh water tank tubings, bolts, fresh water tank heater and different wiring connectors.

3. Remove the tank from the access panel (Fig. 19).
4. Reverse previous steps to reinstall fresh water tank assembly on vehicle.

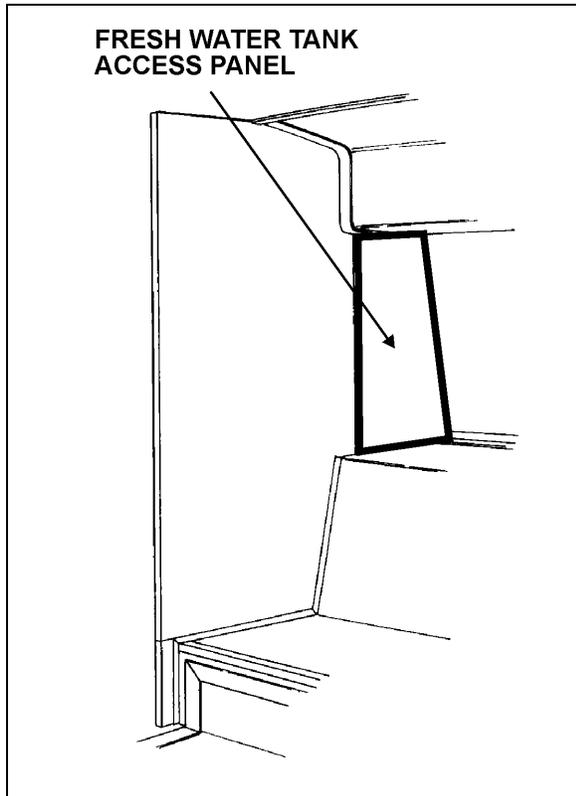


FIGURE 18: FRESH WATER TANK ACCESS PANEL 23054

6.8.1 Fresh Water Tank Heater

A 75 watts, 110 volts AC immersion-type water heater is installed in the bottom of the fresh water tank. The heated portion of element must be immersed at all times to ensure proper heater life. Its power source is provided by the 110 volts in-station connector mounted in the engine oil reservoir tank filling door.

6.9 Liquid Soap Dispenser

A liquid soap dispenser may have been installed as optional equipment. To refill dispenser, proceed as follows:

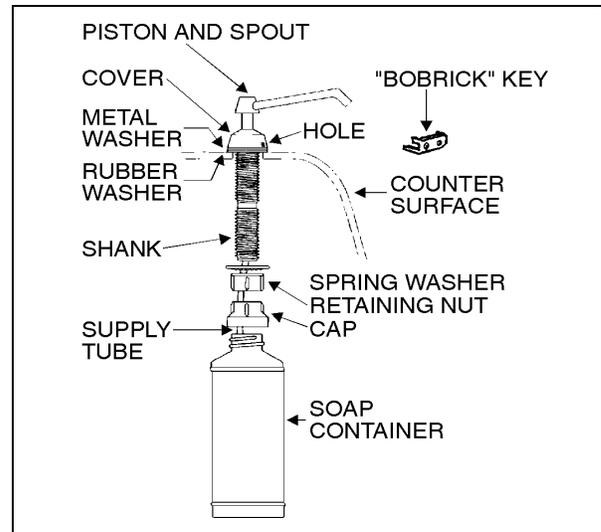


FIGURE 19: LIQUID SOAP DISPENSER 23039

1. Turn cover slightly clockwise until it stops.
2. Insert projection at end of "BOBRICK" key into rectangular hole in cover (Fig. 20). Push straight in. While holding "BOBRICK" key in, turn cover counterclockwise about 1/8 turn.

Caution: Do not use "BOBRICK" key to turn cover.

3. Lift out piston and spout, cover and supply tube.
4. Fill dispenser with soap. This model can dispense vegetable oil soaps, synthetic detergents, and lotion soaps.

Caution: Never use abrasive cleaners.

5. Replace supply tube, piston, and spout mechanism reversing the steps above.
6. Secure the cover by turning clockwise until lock snaps into position.

Note: The dispenser requires priming when extremely viscous lotion soaps are used. Remove piston and spout, cover and supply tube assembly. Pump water into assembly, then replace into dispenser.

6.10 Flush Push-button

The flush push-button is located near the toilet (6, Fig. 12). Press on push-button to actuate a pneumatic timer located on the other side of wall. This timer allows an electric current flow during a preset time to a pump into the sump tank.

6.10.1 Pneumatic Timer Removal and Installation

1. Unscrew and remove the flush push-button lock nut.
2. Remove the access plate (14, Fig. 12).
3. Remove pneumatic timer through this opening, taking care to disconnect electric wires.

Note: *Care must be taken to avoid losing the spacers installed on the mounting sleeve.*

4. Reverse the above procedure to reinstall timer. The recommended torque for the lock nut is 15 lbf•ft (21 N•m).

6.10.2 Timer Adjustment

Timer can be adjusted from 0.2 second to 3 minutes by turning the time adjustment screw clockwise to increase time, and counterclockwise to decrease time. To gain access to the time adjustment screw, repeat steps 2, 3 in the previous paragraph "6.10.1 Pneumatic Timer Removal and Installation".

6.11 Flush Pump

The submersible-type flush pump is mounted inside an enclosure in the sump tank (Fig. 13). The enclosure is provided with a screened side which serves as a strainer to prevent solid matters from entering the pump. The pump requires no periodic maintenance other than cleaning of the strainer side using a water jet introduced through the circular cap opening, once the sump tank is completely drained. The pump can run dry periodically without damage. However, for maximum seal life, the run dry periods should be kept to a minimum.

Caution: *If vehicle is stored for an extended period of time, make sure to clean the strainer as solid matter will tend to pack, and will necessitate replacement of strainer.*

6.11.1 Removal

1. Remove the toilet to gain access to the pump enclosure (12, Fig. 12).
2. Remove the flush pump enclosure cover (Fig. 13).
3. Unsnap the flush pump.

7. WINDSHIELD WIPER MOTOR

The windshield wiper motor is behind the central panel (Fig. 21).

7.1 Removal and Installation

Warning: *Park vehicle safely, apply parking brake, stop engine and prior to working on the vehicle set to the "OFF" position the:*

- **Main battery disconnect switch (XL-40 coach);**
- **Toggles switch and the battery master switch (XL-45 coach).**
- **12 and 24 volts main battery disconnect switch (XL-40, XL-45E and XL-45 converted vehicles).**

Refer to Section 6, paragraph "4. Electrical Compartments" for switch locations.

1. Unscrew the two latches retaining the central panel, and remove it.
2. Disconnect wiring connector from the windshield wiper motor.
3. Loosen the bolt retaining the lever at the end of the motor driving shaft (1, Fig. 21).
4. Remove the three bolts that hold the motor to the steel plate (2, Fig. 21).
5. Remove the windshield wiper motor (Prévost part #800304) and reverse removal procedure to reinstall.

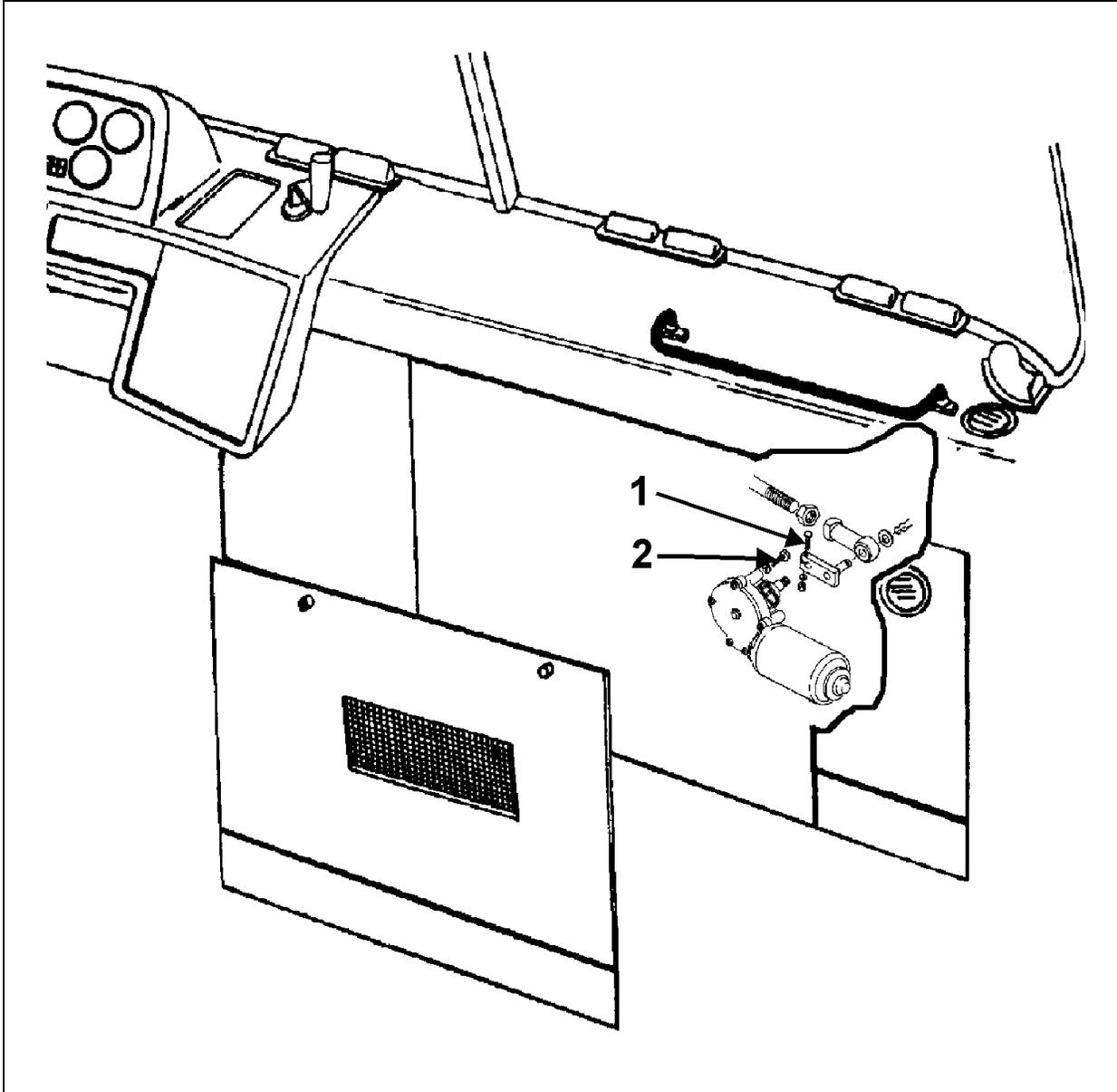


FIGURE 20: WINDSHIELD WIPER MOTOR

23055

8. SPECIFICATIONS

HUBODOMETER (US model: miles)

Make..... Stemco
 Supplier number..... 650-0593
 Prévost number..... 650002

HUBODOMETER (Canada model: km)

Make..... Stemco
 Supplier number..... 650-0025
 Prévost number..... 650117

AM/FM RADIO CASSETTE PLAYER

Make..... Blaupunkt
 Model..... Lexington CM84
 Power source 12 volts
 Maximum output power 4 X 20 watts
 Supplier number..... 9 404 230 228
 Prévost number..... 900730

AM/FM/CD PLAYER

Make..... Blaupunkt
 Model..... Ventura CD 83
 Power source 12 volts
 Maximum output power 4 X 20 watts
 Supplier number..... 9 404 230 281
 Prévost number..... 900764

CD CHANGER

Make..... Blaupunkt
 Model..... CDC-M5
 Power source 12 volts
 Supplier number..... 9 404 230 283
 Prévost number..... 900732

AMPLIFIER

Make..... Sony
 Model..... XM-2042
 Power source 12 volts
 Total output power 80 watts (RMS)
 Supplier number..... XM-2042
 Prévost number..... 900744

SPEAKER

Make..... Blaupunkt
 Max. power..... 90 watts
 RMS power 40 watts
 Freq. response..... 45 Hz - 24 kHz
 Sensitivity 92 dB
 Impedance 4 ohms
 Supplier number..... RPSPKR54
 Prévost number..... 900765

PLAYER LASER DISC KARAOKE

Make Laserlinx international
 Model LK-V35
 Power source..... 24 volts DC
 Supplier number LK-V35
 Prévost number 900740

INVERTER

Make Tripp-Lite
 Model PV-750FC
 Power source..... 12 volts DC
 Output power 750 watts/120 volts AC, 60 Hz
 Prévost number 562292

ELECTRIC DESTINATION SIGN (FLUORESCENT TUBE)

Make General Electric
 Length 30" (76 cm)
 Outside diameter 1" (25 mm)
 Wattage..... 20
 Color Cool white
 Quantity..... 1
 Supplier number F30T8 CW4
 Prévost number 830120

MANUAL DESTINATION SIGN (BULB LIGHT)

Candle power..... 3 cp.
 Voltage..... 24 volts
 Quantity..... 6
 Trade or SAE number 1251
 Prévost number 560125

LAVATORY VENTILATION FAN MOTOR

Make MCC
 Voltage..... 24 volts
 Supplier number 15-6532
 Prévost number 870844

LAVATORY LIGHT BULB

Voltage..... 24 volts
 Wattage..... 10 watts
 Quantity..... 2
 Trade or SAE number 78236
 Prévost number 561553

LAVATORY NIGHT LIGHT BULB

Voltage..... 24 volts
 Wattage..... 2 cp.
 Quantity..... 2
 Trade or SAE number 456
 Prévost number 560601

EMERGENCY BUZZER SWITCH (PUSH BUTTON)

Rating 3 A
Supplier number.....44-532-0
Prévost number..... 401896

FRESH WATER TANK

Make.....Prévost
Capacity 18 US gal (68 liters)
Prévost number..... 401591

FRESH WATER TANK HEATER

Pipe thread adapter 1/4"
Wattage75 watts
Voltage110 volts
Supplier number..... EM 37-5
Prévost number..... 562018

FLUSH PUSH BUTTON PNEUMATIC TIMER

Make..... Furnas
Type Resettable
Time 0,2 to 180 seconds
Supplier number..... 55-AA
Prévost number..... 90-0348

FLUSH PUMP

Make.....Jabsco
Model number 30240-1024 24 V
Power source24 volts
Capacity 1452 gal./h
Prévost number..... 900496

WINDSHIELD WIPER MOTOR

Make..... SWF
Supplier number..... 403.195
Prévost number..... 800304

WIPER (BLADE)

Make..... Sprague device inc.
Supplier number..... S-1147-2-22
Prévost number..... 800284