

MC-9 MAINTENANCE MANUAL

SECTION 17

LAVATORY

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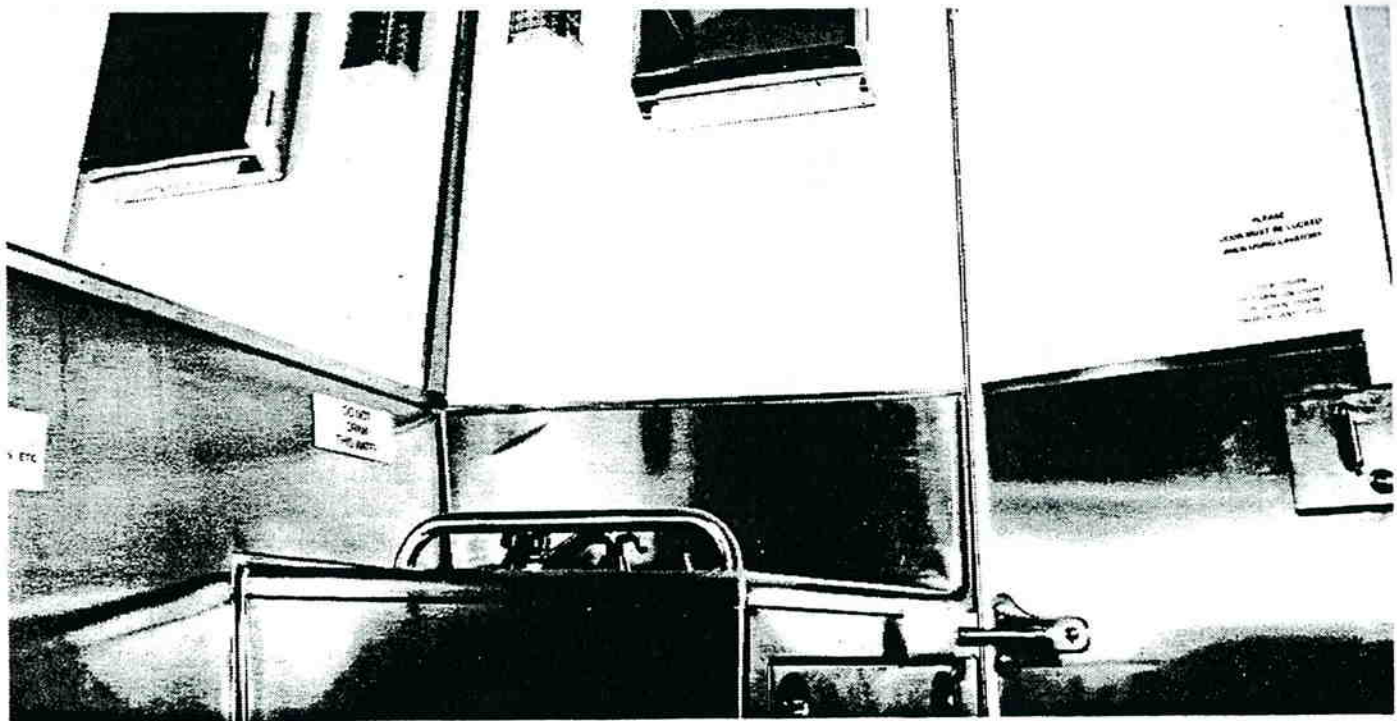


Figure 17-1. Lavatory.

LAVATORY

DESCRIPTION

Washroom facilities are installed at the right rear corner of the coach. Installation of the washroom eliminates seating for two passengers, leaving three seats on the rear cross seat.

The washroom (figure 17-1) has a special, embossed stainless steel floor with stainless steel bright finish paneling on the lower half of the walls, door and sink partition. Permanent finish melamine panels are utilized on the upper half of the washroom partitions for ease of cleaning and resistance to damage. A large mirror is mounted on the back wall above the wash basin. Extreme care has been taken in the design of the washroom to avoid corners where dirt may collect. The use of stainless steel enables the washroom to be easily maintained in a pleasing condition at all times.

A single waste water and chemical tank with bottle stop in drop tube is used. A stainless steel fresh water tank for the wash basin is located in the interior of the coach behind the wall mirror. A large overflow line is provided on the fresh water tank to eliminate the possibility of damage by excessive water pressure. A manually operated slide dump valve is provided to drain the chemical tank.

A coupling which provides water to the fresh water tank is easily accessible through a small door on the right rear side of the vehicle. A coupling for flushing and filling the chemical tank is accessible through the right hand rear side engine service door.

VENTILATING BLOWER AND MOTOR

A ventilator blower mounted on the chemical tank exhausts odors and also provides constant air circulation to the lavatory compartment. Air enters the lavatory compartment through a duct on the outer wall which discharges behind the window release bar.

The exhaust blower operates whenever the master control switch on the driver's instrument panel is put in the ON position. The blower motor is rubber mounted and can easily be removed from the engine compartment by removing the mounting screws and separating the electrical wires at the connectors.

NOTE: Later production coaches have a ventilation system without the blower and motor (unless the blower and motor have been retained by special request). Information on this newer system will be found later in this section.

MAINTENANCE

The frequency of preventative maintenance should be determined by coach mileage and the operating conditions. However, these items should be checked approximately every 50,000 miles (80,000 km) or 1,700 coach operating hours.

Remove the blower and motor assembly (see figure 17-2). Free operation of blower wheel and motor is important. Check blower housing wheel and ducts. If dirty, they should be cleaned.

Check motor brush seating and amount of wear. If not seating properly or worn, the brushes should be replaced. They can be replaced without removing the unit from its mounting.

REMOVAL AND INSTALLATION

1. Open right hand rear side service door.
2. Disconnect wiring.

NOTE: Tape ends for safety purposes.

3. Loosen clamp attaching flexible air hose to blower shroud and remove hose.
4. Remove the screws which attach blower assembly, then remove motor with fan and housing assembly.

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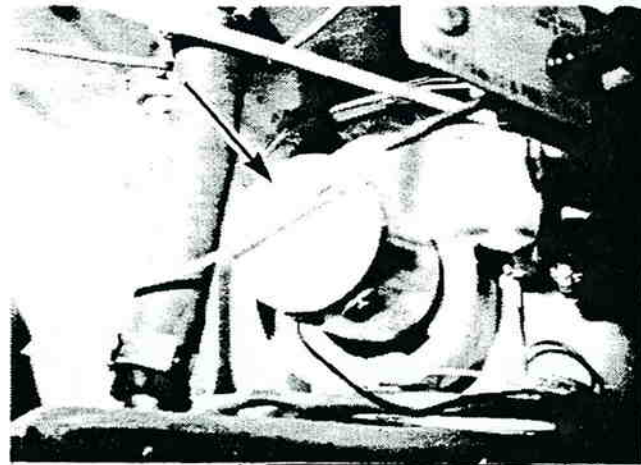


Figure 17-2. Lavatory Ventilating Blower and Motor (On Earlier Coaches).

5. To install, place blower motor with fan and housing in position, then attach with four capscrews.

6. Install flexible air hose to blower shroud and attach with clamp.

7. Connect electrical wiring and tape the wiring connections securely.

8. Check motor operation.

ENGINE VACUUM POWERED VENTILATION SYSTEM

The lavatory ventilation system installed on later production coaches operates off the engine vacuum. A large air hose connects the lavatory drop tube to the engine air intake box. The constant vacuum thus applied to the drop tube causes a continuous flow of fresh air from the duct on the outer wall of the lavatory to pass through the lavatory compartment (figure 17-3).

A drain line from the air exhaust elbow on the drop tube keeps moisture from accumulating in the exhaust hose and from entering the air intake box. See figure 17-4.

LAVATORY COMPONENTS

Various items associated with the lavatory are described below. Refer to figures 17-1 and 17-5 for their locations.

TOWEL AND TISSUE DISPENSERS

A towel dispenser is mounted on the inside of the lavatory above the sink. See figure 17-1. Also a "Towelette" wet towel

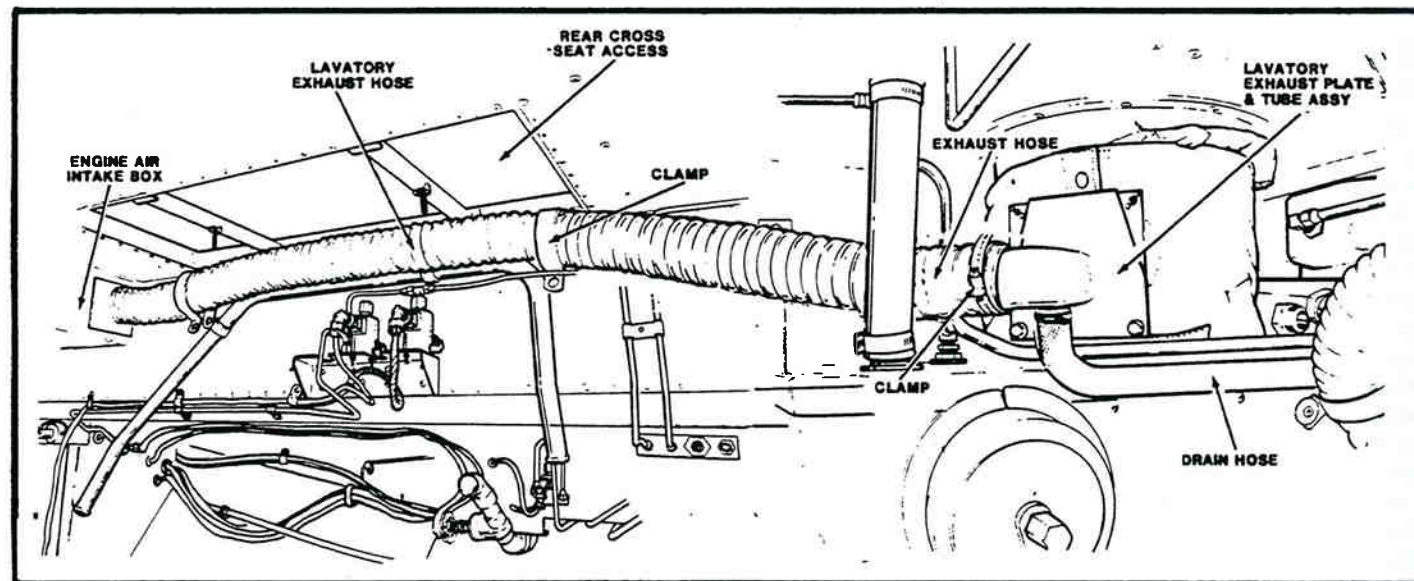


Figure 17-3. Vacuum Operated Lavatory Ventilation System.

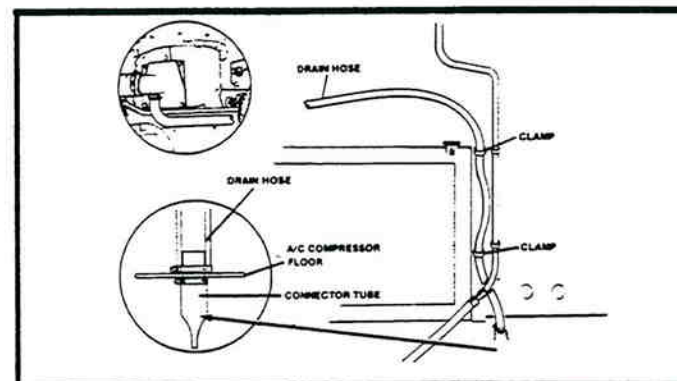


Figure 17-4. Drain Hose Installation.

dispenser is mounted on the inside of the lavatory wall above the sink. These towels can be used for washing and drying when temperature is below 32°F (0°C).

A tissue dispenser is mounted at the lavatory front wall. A key is furnished for refilling dispenser.

EMERGENCY BUZZER

The lavatory emergency buzzer is mounted in the front junction box and sounds when the emergency switch button in the lavatory compartment is pushed. Refer to wiring diagram for circuit continuity.

The emergency buzzer switch marked "To Signal Driver - Emergency Only" is located on upper right corner of the front

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partition of the lavatory compartment. A light on the instrument panel marked "Lavatory Alarm" illuminates and a buzzer sounds when the switch is depressed

DEODORIZER

A block refill-type deodorizer is mounted on the side compartment partition. To install a new block, open the grille-cover and place the block on the platform.

OCCUPIED SIGN

A lavatory occupied sign light is located on the exterior of the forward lavatory compartment partition. This sign which reads "Wash Room Occupied" is illuminated when the lavatory door is closed and locked.

DOOR LOCK

The lavatory door lock has both inside and outside handles and an inside latch to lock door from within the compartment. When this latch bolt is locked it automatically turns on the compartment ceiling light and the exterior occupied sign light. If the lock fails to release, the door can be opened from the outside with a special key which is furnished to the driver.

The lock assembly can be removed from the door, then readily disassembled and the parts replaced, if necessary. A light application of lubricant to all moving parts will assure free operation.

DOOR LIGHT

A microswitch is installed in the door post at the edge of the front partition. This switch is activated by the door lock mechanism upon locking to energize the dome light and the "Washroom Occupied" sign on the outside wall. The switch is readily serviced by removing the two screws securing the striker plate to the post.

The lavatory dome light contains a 6-candlepower bulb that lights with the marker lights and a 32-candlepower bulb that lights when the door is closed and locked.

SOAP DISPENSER

To refill the liquid soap dispenser, unscrew the plunger cap which is threaded into the dispenser body. Remove cap and pour liquid soap into dispenser tank until full. Replace plunger cap into dispenser body.

Periodic cleaning of soap dispensing equipment should be made a regular part of your washroom cleaning routine and general maintenance program.

Sometimes a dispenser is considered in need of repair when it may only be clogged and in need of a good cleaning. As a general rule, all soap dispensing equipment should be flushed out once a month to remove soap residue and dirt.

The exterior of the soap dispenser should be washed with warm soap and water, then dried with a clean cloth.

Never use abrasive cleaners on parts of the soap dispenser as this will mar the surface.

If it becomes necessary to remove the soap dispenser for cleaning, this procedure should be followed:

1. Remove the soap container from the cover.
2. Place a small chain, 24" (610 mm) long, inside the soap container.
3. Add a small quantity of soap and warm water.
4. Shake the container until the chain has dislodged all film from the interior.
5. After removing the chain, thoroughly rinse the container and let it dry before refilling with soap solution.

As part of your regular routine, make it a practice to check the operating condition of the soap dispensing piston mechanism at regular intervals to make sure it works freely. If it is not working, disassemble and wash all metal parts in soap and water and let dry. Assemble and replace in service.

DOOR LOCK AIR CYLINDER

An air-operated air cylinder (1) is installed to provide positive closing of the lavatory door. The cylinder also reduces rattles and strain on lock, striker plates and hinge.

The cylinder is fed from the coach accessory air supply (4). A pressure regulating valve (2) and a flow control valve (3) assure a controlled closing action (figure 17-6). Refer to Section 4, Brakes and Air System, for detailed maintenance of regulating valve.

The lavatory door air cylinder should be lubricated at regular intervals — approximately every 30,000 miles (48,000 km). The recommended procedure is as follows:

1. Remove air feed hose and put a few drops of SAE 30 oil into the cylinder through the air hose connector.
2. Reconnect the feed hose.
3. Check air cylinder for leaks.
4. When overhauling air cylinder, it is important to replace all seals, felts, cups and O-rings with new parts for proper operation. Also when overhauling cylinder, the new parts should be coated with oil before assembly.

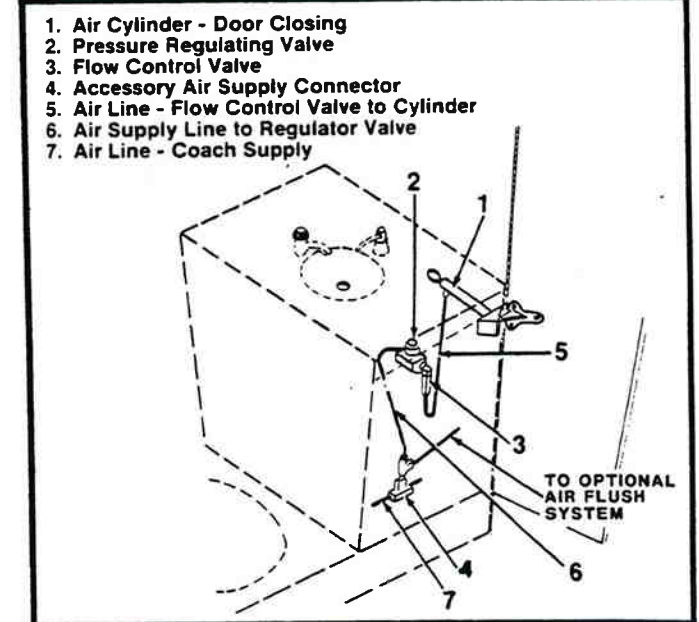


Figure 17-6. Lavatory Door Air Cylinder Installation.