

**PREVOST**

ENREGISTRÉ - REGISTERED  
ISO 9001 & ISO 14001

**MAINTENANCE INFORMATION** Mi00-24



DATE : October 2000	SECTION : 22 - HVAC
SUBJECT : HEATING, VENTILATION AND AIR CONDITIONING (HVAC) SYSTEM MAINTENANCE	

**Important Notice:** This maintenance is recommended by Prévost Car to increase your vehicle's performance. Note that no reimbursement will be awarded for carrying out maintenance.

**APPLICATION**

Model
H3 series Coaches & Bus Shells Model Year : 1998 up
XL series Coaches & Bus Shells Model Year : 1998 up
XLII series Coaches & Bus Shells Model Year : 1999 up

**DESCRIPTION**

This is a reminder about the maintenance required for the heating, ventilation and air conditioning system. For more details on the system and its components, consult the operator's or the owner's manuals (care and maintenance) plus the maintenance manual (section 22).

**HVAC SYSTEM MAINTENANCE SCHEDULE**

Service every 6,250 miles (10 000 Km) or twice a year, whichever comes first.

DESCRIPTION	REMARKS	LUBRICANT &/OR PART <small>(depending on options, specifications may change. Consult your maintenance manual)</small>
Refrigerant Moisture Indicator	Replace filter dryer unit according to moisture indicator (as needed)	<b>Filter : #950262</b> <i>Coaches:</i> H3, XL-40, XL-45, XLII-40, XLII-45 <i>Bus Shells:</i> XL-40, XL-45E, XLII-40, XLII-45E  <b>Filter : #950231</b> <i>Bus Shells:</i> XL-45, XLII-45  <b>Filter : #950220</b> (auxiliary A/C system)

A/C Compressor	Check oil level, add if necessary	Polyolester Oil, HFC 134a compatible: Castrol SW-68 (POE) or equivalent
A/C Receiver Tank	Check refrigerant level, add if necessary	HFC 134a
Condenser coil	Clean with water	-----
A/C And Heating Air Filters	Replace elements (twice a year), clean every month	<p><b>XLII +H3</b>  Driver's : #871144 (<i>fresh air</i>)  #871147 (<i>return air</i>)  Passenger's : #871051</p> <p><b>XL Coaches</b>  Driver's : #871049  Passenger's : #871069</p> <p><b>XL Bus Shells</b>  Driver's : #871049  Passenger's : #871034</p>

**Service every 12,500 miles (20 000 Km) or once a year, whichever comes first.**

DESCRIPTION	REMARKS	LUBRICANT &/OR PART (depending on options, specifications may change. Consult your maintenance manual)
Parcel rack fan air filter	Clean	#871159
Evaporator coil	Clean with water	-----
Driver's evaporator coil	Clean with air	-----

**Service every 50,000miles (80 000 Km) or once a year, whichever comes first.**

DESCRIPTION	REMARKS	LUBRICANT &/OR PART
Flexible hoses	Inspect flexible hoses regularly	-----

**Miscellaneous Service**

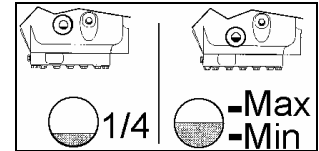
DESCRIPTION	REMARKS	LUBRICANT &/OR PART (depending on options, specifications may change. Consult your maintenance manual)
Discharge Tubes*	<p>Every three months:  Check 2 condenser's discharge tubes  Check 6 evaporator's discharge tubes  Check 2 front discharge tubes</p> <p>* Discharge tubes are rubber tubes located under vehicle.</p>	-----
A/C system compressor drive belts	Check the drive belts conditions	Gates BX100 (Bosch Alternator) #506864 (set of 2) (mainly XLII Coaches, H3 Coaches from X2901)

DESCRIPTION	REMARKS	LUBRICANT &/OR PART (depending on options, specifications may change. Consult your maintenance manual)
		Gates BX97 (Delco Alternator) #506664 (set of 2) (mainly XLII Bus Shells, XL coaches & Bus Shells, H3 VIP, H3 Coaches up to X2900)

## HVAC SYSTEM MAINTENANCE

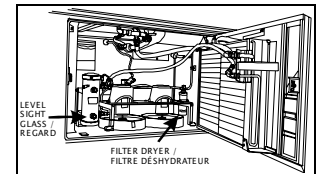
### A/C COMPRESSOR OIL LEVEL

Using the level sight glass, check the oil level. Depending on the sight glass location, oil level should be approximately at the first quarter or the mid-point. The oil fill plug is located on R.H. side of sight glass.



### RECEIVER TANK

The receiver tank is located in the condenser compartment. The function of the receiver tank is to store the liquid refrigerant. During normal operation, the level of the refrigerant should be approximately at the mid-point of the lower sight glass.

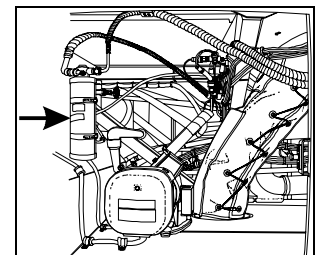
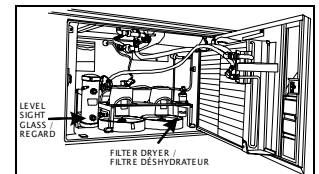


### FILTER DRYER

A filter dryer is located in the condenser compartment. The filter should be replaced if the system has been opened or after a prolonged exposure, when the moisture indicator sight glass turns to yellow.

A receiver-filter, located close to engine compartment L.H. side rear door, is installed on vehicles equipped with an auxiliary A/C system or a driver's system only. Its function is similar to that of filter and receiver used on main systems. Replace only when system is opened or a problem occurs.

**Note:** On XL2-45 vehicles, the receiver-filter is installed on wheel housing, inside L.H. side rear service compartment.



RECEIVER-FILTER LOCATION (XL2-45)

### 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 maintenance schedule to ensure proper ventilation of the evaporator and heating radiator cores. To clean filters, back flush with water, then dry with air.

**Caution:** Do not use high pressure water jet to avoid damaging filter.

**Caution:** Be sure not to reverse filter upon installation.

### Driver's HVAC Unit Air Filter (XL, XLII, H3)

The driver HVAC system is located behind the dashboard's R.H. side lateral plastic panel. To gain access to the A/C filters, unscrew the R.H. lateral console's grill located at the top step of the entrance door steps. Slide out the R/A and F/A filters. Remove the filters for cleaning or replacement.

### Cabin Air Filter (XL & XLII coaches)

The central HVAC system's uses two air filters. They are located in the evaporator compartment on driver's side of the vehicle. To access, open the baggage compartment forward of the evaporator compartment. An access door held shut by three retaining screws is located in the wall separating the baggage compartment from the evaporator compartment. Slide out the upper filter first, then slide out the lower filter.

### Cabin System Air (H3 coaches + bus shells)

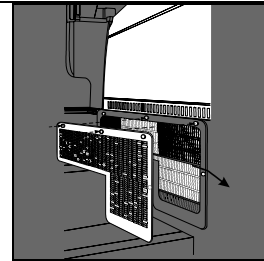
The central HVAC system's air filter is located in the A/C and heating compartment on L.H. side of the vehicle. To gain access, locate access panel in one of the baggage compartment adjacent to the A/C and heating compartment. Open panel by unscrewing ( $\frac{1}{4}$  turn) the three screws of either panel, unsnap both fasteners on top of filter and slide out the filter for cleaning.

### Main HVAC Unit Air Filters (XL & XLII bus shells)

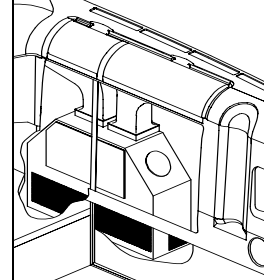
The main or cabin air filters are located in the evaporator compartment. To gain access, open evaporator compartment door. Remove filter panel by unscrewing the six fixing screws. Slide out the filters for cleaning or replacement.

### Parcel Rack fan Air Filter

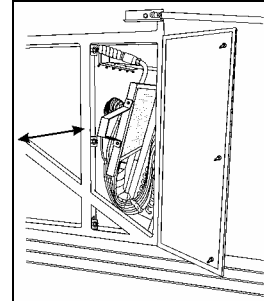
A/C condenser coils may be installed in both parcel rack air systems. Only the air filters are serviceable. The air filters are accessible from inside the parcel racks. Slide out the filters for cleaning or replacement.



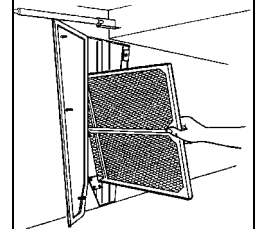
DRIVER'S AREA AIR FILTERS



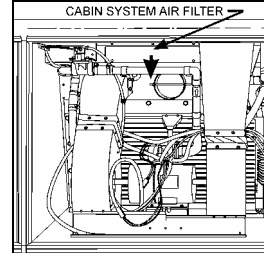
DRIVER'S AREA AIR FILTER (H3)



CABIN SYSTEM AIR FILTER (XL & XLII COACHES)



CABIN SYSTEM AIR FILTER (H3 COACHES & BUS SHELLS)



CABIN SYSTEM AIR FILTER REMOVAL (XL & XLII BUS SHELLS)

## COIL CLEANING

**Caution:** Use a water jet or water mixed with low air pressure to clean the coil.

**Caution:** Direct the pressure straight through the coil to prevent bending of fins and do not use extremely high pressure. Do not use hot water, steam or caustic soap.

### Central A/C system evaporator coil

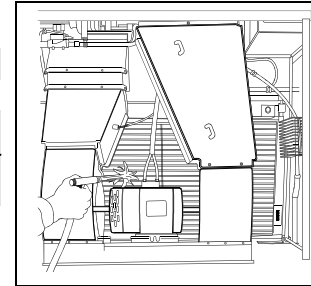
To gain access to the evaporator coil, open evaporator compartment door on L.H. side of vehicle. Check the external surface of the coil at regular intervals for dirt or any foreign matter. Clean with water jet.

### Central A/C system condenser coil

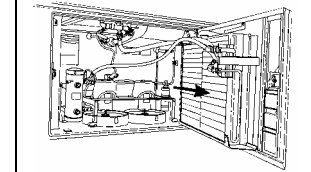
To gain access to the condenser coil, open condenser compartment door on R.H. side of vehicle. Check the external surface of the coil at regular intervals for dirt or any foreign matter. Clean with water jet.

### Driver's A/C system evaporator coil

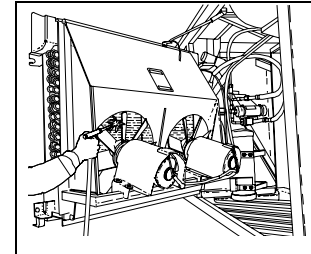
If necessary, clean with air.



EVAPORATOR COIL CLEANING



CONDENSER COIL CLEANING



CONDENSER COIL CLEANING (H3)

## Waste disposal :

Discard according to applicable environmental regulations (Municipal/State[Prov.]/ Federal)