

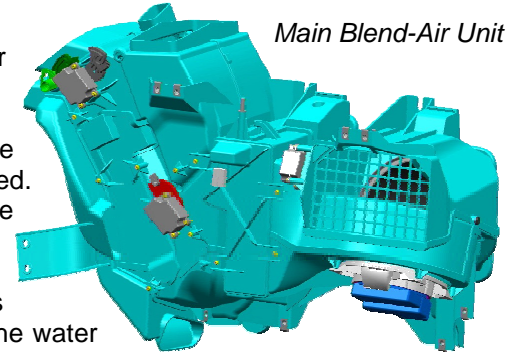
# Freightliner Action Bulletin

FAB006

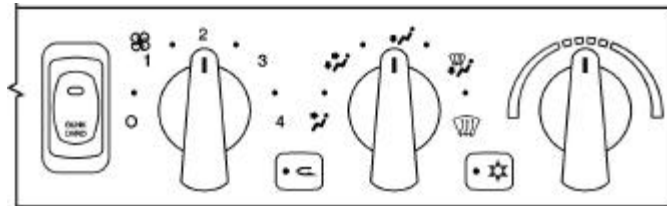
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## Heavy-Duty HVAC System

Starting July 2002, Freightliner improved its HVAC system for heavy-duty models. A host of changes improve driver comfort to create a stable and pleasant work environment. The dash ductwork has been re-designed to better distribute air. The windshield defrost and side-window defrost have been improved. Internally, improvements have been made to reduce maintenance costs.



The new electronic controls manage air discharge with blend doors rather than with water valves. This is accomplished by replacing the water valve with a blend door and a temperature sensor that modulates to provide Constant Discharge Temperature Control (CDTC). The main advantage of using blend-air doors rather than a water valve to control temperature is the ability to maintain constant air temperature out of the ducts and also provide linear temperature increases with knob rotation. The system also allows the driver to select the bunk temperature and fan speed from the main dash control while driving, via the bunk override switch. The sleeper environment can be prepared for the evening before stopping. Once the cab and sleeper settings are selected, the driver seldom needs to make any adjustments. Driver comfort is improved with increased, refined mode choices so that, in addition to the traditional bi-level settings between face and floor, there are now half-mode selections that allow the driver to tune in the perfect blend between modes. There are also eight blower speeds for the front and rear. The recirculation switch is standard, as is the A/C request switch. Maintenance is reduced because the blower motor is brushless and does not require a resistor. Outside air as well as cab and sleeper recirculation filters are easier to access and change than in the previous design. Retainers hold the filters in place and can be easily accessed and serviced by the driver.



HVAC Dash Controls

### Benefits

- Cab and sleeper temperatures and fan speeds are adjustable from the driver's seat
- New "half-modes" for finer control of air distribution
- Brushless blower motors are quieter, self-protected and last longer
- Water valve and blower resistor are eliminated, reducing maintenance cost
- Improved defrost performance and temperature control
- Databus diagnostic capability via ServiceLink
- Eight blower speeds for front and rear, for ideal air circulation
- Lighted Knob Indicators for easy viewing at night

**Availability** Standard on Century Class S/T, Columbia and Coronado

**Data Code** 700-014 Heater, defroster and air conditioner with constant outlet temperature control