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Author: Bob Ford
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Coding Information

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Title: Factory Installed Air Conditioning, EC4.0 System BE, CE, FE, RE Bus Models

Applies To: BE, CE, FE, RE Bus Models 48ADD, 48ADE, 48ADG, 48CVA, 48CVC, 48CVH, 48CVJ, 48CVL, 48CVM, 48UTX, 48VHG, 48VHH BE and CE only - 48ADC

DESCRIPTION

This article includes the operating instructions and the service manual for the Trans/Air EC4.0 air conditioning system.

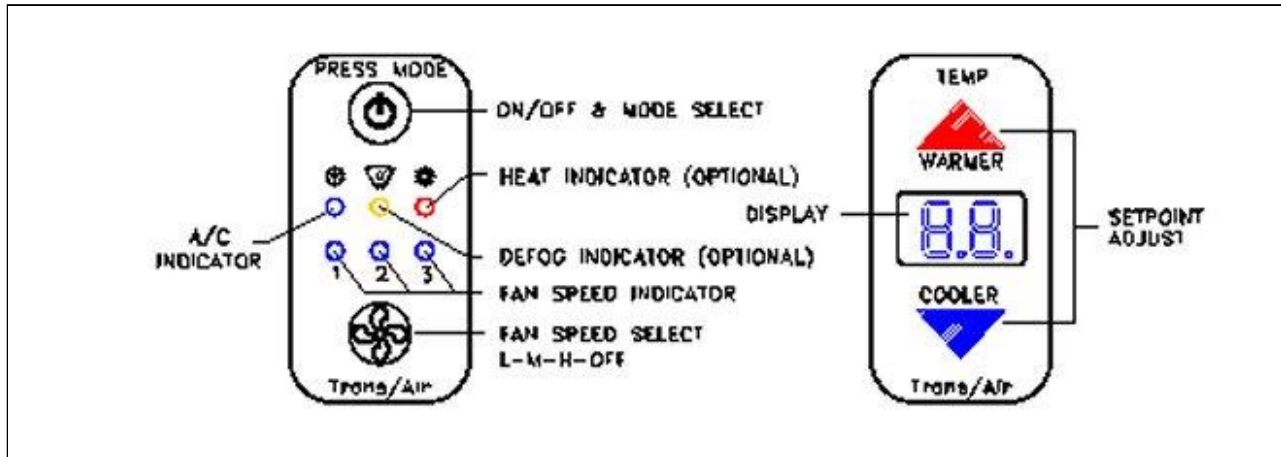
Units built with factory installed air conditioning will have an option code for the air conditioning system installed in the components section in ISIS. (Sample shown below) Verify the operating system ordered on the unit prior to utilizing the appropriate iKNow article for service information.

Class Description	Parts Catalog Component	Component Line Drawing	Description
133 BODY FEATURES	0047SPD	0047SPD	ALPHA/NUMERIC DECAL GUIDE Quantity: 011-50
134 MISC	0048AAS	0048AAS	AIR CONDITIONER, BODY IC Air, 120,000 BTU, Evaporator, Condenser & Compressor, With EC3.0 Control System
135 BODY FEATURES	0048AHT	0048AHT	WINDOW COVER (washed) Clear
163 MISC	0048USZ	0048USZ	AIR CONDITIONER, BODY IC Air, 96,000 BTU, Evaporator, Condenser & Compressor, With Rear Flush Mounted Evaporator, and EC2.5 Control System

Sample Feature Codes

OPERATING INSTRUCTIONS

Trans/Air EC 4.0 Climate Control System



The EC4.0 climate control system has two driver control modules: Mode/Fan control switch and Thermostat. The Mode/Fan control switch turns system on/off and controls evaporator blower speed. The Thermostat displays cabin air temperature, fault and service codes, and adjusts set point temperature.

BASIC OPERATION

Turn system on

With the vehicle running, press the **MODE** button to turn EC4.0 system on. The A/C indicator will light up indicating system is in A/C mode. Fan speed indicator 1 will light up indicating the fan speed is Low. Thermostat will also turn on automatically. LED display shows cabin air temperature.

Select mode of operation (Heat / Defog Optional)

Press the **MODE** button to change the operation mode between A/C, Defog or Heat.

Change fan speed

Press the **FAN** button to change the fan speed between Low, Medium, and High.

Change set point temperature

The thermostat LCD display shows cabin air temperature during normal operation. Press **UP** or **DOWN** arrow once for set point mode. The set point temperature and a flashing decimal point will be displayed on the LED in set point mode. Press the **UP** or **DOWN** arrow again to adjust the set point to the desired value. After 5 seconds, EC4.0 will switch back to normal operating mode displaying cabin temperature. The new set point then becomes effective.

The default set point temperature is 70°F. This setting is stored in EC4.0's non-volatile memory. It takes effect every time the system turns on. To change the default set point temperature setting, go into the setting mode and adjust the set point to the desired value, then press the **UP** and **DOWN** arrow **simultaneously**. The new set point value will be stored into the non-volatile memory and become the default set point.

Turn system off

Press the **MODE** button until all the mode indicators turn off. The fan speed indicators and the thermostat LCD display will turn off consequently.

Fan Only mode operation

Press the **FAN** button while the EC4.0 system is off. The A/C system will be running in Fan Only mode. (Only evaporator blowers run, compressor and condenser remain off.) Press the **FAN** button to set the fan to desired speed (Low, Medium or High). In Fan Only mode, the thermostat LCD still shows the cabin air temperature. To turn Fan Only mode off, keep pressing the **FAN** button until all the fan speed indicators turn off.

TROUBLE SHOOTING

Fault Code	Description
HP	High pressure fault
LP	Low pressure fault
Lu	Low clutch voltage/blown fuse
Sr	Maintenance required
System Indicator	
Hi	Return air temperature above 90°F
Lo	Return air temperature below 60°F
Sr	1500 Hr Service Reminder

No service required when the thermostat LCD shows “Hi” or “Lo”.

Turn the system off and then turn it back on to reset the “Sr” code. Service is required if “Sr” code cannot be reset.

SERVICE MANUAL

[EC4.0 Service Manual](#)

CIRCUIT DIAGRAMS

- [EC4.0-1.pdf](#)
- [EC4.0-2.pdf](#)
- [EC4.0-3.pdf](#)

TECHNICAL SUPPORT

Trans/Air Manufacturing

<http://www.transairmfg.com>

800-673-2446

RELATED ARTICLES

IK2200001	BUS BODY	Bus Air Conditioning Service Contacts for HVAC Information
IK2200090	BUS BODY	Factory Installed Air Conditioning, EC3.0 System
IK2200089	BUS BODY	Factory Installed Air Conditioning, EC2.5 System

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