INITIAL OPERATION AND ROAD TESTING PROCEDURE

1. Start vehicle engine, and allow to run at normal idle speed. Turn ATC system on by selecting any operating mode (other than "OFF") with the rotary selector switch, and depressing the system ON/OFF key on the ATC button. Recommended operating mode for this test is Panel / Recirc. . In cool weather, the engine may need to warm up for a few minutes, before the blower will operate to produce heat (coolant temperature sensor in water valve).

2. Use the ATC button to achieve the following control settings and functional tests:

   A) ***Automatic System:*** "AUTO" **AUTO** and "AUTO LO" **AUTO.** Pressing the top AUTO button places the ATC system in automatic mode. In this mode all ATC components are controlled by the system's computer to maintain the set temperature. Pressing the lower AUTO button places the system in "AUTO LO" which operates the same as AUTO, except with a limited range of fan speeds.

   B) ***Temperature:*** The UP/DOWN arrow buttons are used to select a "set" temperature for normal operation. The "set" temperature selection range is 60 - 86 degrees (F). Press the blue DOWN arrow button until the display reads 60. The blower speed and resulting air discharge should begin to change. Press the button one more time to change the display to read "**AC**". The blower fan will increase to maximum speed and the compressor will lock on, providing continuous cooling. Verify function. Press the red UP arrow key until the display reads 86. The blower speed and resulting air discharge should begin to change. Press the button one more time to change the display to read "**hot**". The blower fan will increase to maximum speed and the coolant valve will lock open, providing continuous heat. Verify function. Set the temperature at 72 degrees and press the top AUTO button. This setting (72 degrees/AUTO) will be the test setting.

   NOTE: As the "set" temperature approaches the actual cabin (interior) temperature, blower speed and air discharge will decrease. As the "set" temperature increasingly deviates from actual cabin temperature, blower speed and air discharge will increase. Selecting a change in the "set" temperature will also result in a noticeable change in discharge air temperature. If cooling is required, discharge air will begin to feel chilled. If heating is required, discharge air will begin to feel warm (if engine is up to operating temperature). If the "set" temperature is at or near the actual cabin temperature, discharge air will begin to feel neutral.

   C) ***Blower Fan:*** Pressing the FAN button will change fan speeds from **1** (low) to **4** (high) as indicated by the light beside each number. Verify that the blower operates at all four fixed speeds. Press the top AUTO button to reset.

D) ***Air Conditioner:*** Pressing the A/C Snowflake button will toggle between "ECONOMY MODE" and "A/C ON" settings, as indicated by the light beside each symbol. In either of these settings all other ATC features operate on automatic.

ECONOMY MODE (Snowflake with circle and bar): The A/C compressor will not operate, regardless of control settings and cooling demand.

"A/C ON": The A/C compressor (and condenser fan) will operate, regardless of control settings and cooling demand (for use in air dehumidification and windshield de-fogging). Press the top AUTO button to reset.

NOTE: System controls will not allow A/C system operation, when outside temperature is below approximately 40 degrees (F). In cool ambient temperatures above 40 degrees (F), the A/C compressor may cycle on only for a few seconds, and then cycle off for 1-2 minutes. This cycling is normal.

E) ***Outside Temperature:*** Depressing the "EXTERNAL TEMPERATURE" button will momentarily display the outside temperature (F). After a few seconds, the display will then resume displaying the "set" temperature. The outside temperature sensor is mounted underneath the vehicle front bumper.

3. The HVAC / ATC system should now be operating and discharging air through the panel louvers (PANEL / RECIRC mode).

4. Rotate the Mode Selector Switch (rotary knob) slowly through each of the settings. Verify proper air discharge path in each of the selected settings. Verify that the Fresh Air / Recirc Air Door operates properly. Refer to the Evans Tempcon Owner's Manual (supplied with every vehicle) for proper air discharge path in each mode. This manual also contains descriptions and operating instructions for additional ATC and HVAC system features.

5. Select a "set" temperature of 72 degrees (F), and proceed with the normal road test. Blower speed and discharge air temperature should gradually change as necessary, to bring the cabin temperature to (approximately) the "set" temperature. After the "set" temperature is achieved, the ATC system will maintain this cabin temperature. Periodic changes in blower speed and air discharge temperature may be noticed, as the ATC system works to maintain the cabin temperature.

6. If any ATC Component and/or HVAC system faults are discovered during the road test, refer to the appropriate Section for troubleshooting and diagnostics.