

## **BASIC OPERATIONS**

**AUDIT (Automotive Data Information Terminal) is a registered trademark of Javelina Corporation. The AUDIT System utilizes a state of the art microprocessor which insures years of trouble free operation, extended tank probe life and accurate tank level measurements. Your new AUDIT system includes a solid state, high resolution CCD camera. We feel this camera is simply the finest in the industry for overall performance. Its low light level performance is second to none! In addition, the camera is in an air tight housing, filled with nitrogen, to provide years of trouble free operation.**

Your AUDIT 8T8 is the 10th generation AUDIT system specially designed for use in your new Foretravel Motor Home. The 8T8 incorporates all of the past improvements plus VGA graphics on a newly styled screen, the new AUTOCAL feature and a newly designed compass screen with outside temperature. Factory authorized service personnel are very capable of servicing the AUDIT system should the need arise.

### **8T8 OPERATION**

**ON/OFF:** This switch powers the monitor, camera and computer and serves as the master power switch. In some cases this switch has a third position to control the passenger side camera.

**SELECT:** This switch signals the computer (CPU) to display either tank level graphics, rear video or the compass and outside temperature screen.

**BRIGHTNESS CONTROL:** This switch controls the brightness of the three video pictures (tank level, rear video or compass screen). The tank level screen and the compass screen require less gain than does the rear video screen. Consequently the brightness should be reduced when viewing the tank level or the compass screen. This will greatly extend the life of the picture tube and avoid image burn on the phosphor screen.

**CRT/MONITOR:** The monitor utilized in the system is a ruggedized 12 volt version of a CRT which was developed for the F-15 Fighter program. The tube and gun design will provide years of trouble free operation with little or no maintenance whatsoever. The screen lens is made of a scratch resistant acrylic to allow surface cleaning without scratching.

**SWITCH PANEL:** The switches that control the AUDIT system are located on an electroluminescent panel. The electroluminescence is what lights the panel for night operation. The electroluminescence is a thin film of phosphor located between the front panel graphics and the aluminum panel. Energizing this phosphor with AC voltage makes the phosphor glow thereby lighting the graphics in front of it. Care should be taken not to puncture this panel as it could permanently damage the back lighting. Any addition of switches should be done only by factory authorized personnel to avoid damaging this panel.

### **CARE AND CLEANING**

Use only a clean damp cloth to clean the screen or switch panel surface. Never use abrasive, acetone or ammonia based products in cleaning these surfaces. Additionally the rear camera is nitrogen filled to prevent fogging. Dis-assembly of this camera, for any reason, will allow the nitrogen to escape rendering the camera vulnerable to moisture and subsequent fogging. **RELEASING THE NITROGEN FROM THIS CAMERA VOIDS ANY AND ALL WARRANTY!**

# Model 8T8 Operations

The operation of the model BTB is virtually automatic. At "power up" the system displays the Logo screen while the computer performs B4 operational tests and calibrations. Once complete the video screen automatically changes to the selected screen (either rear video, compass or tank level gauges). Holding tank levels are determined by external foil probes connected to the tank amplifier. The tank amplifier then transmits the tank level to the computer via the tank wiring harness. The computer interprets the reading and displays the appropriate data via a high resolution VGA video graphic generator located within the computer itself. The model 8T8 computer has a unique auto cal feature that compensates for tank wall variances, voltage variances as well as wiring harness variances. This unique auto cal feature is activated by the factory installer and, once activated, never needs calibration again unless a tank or amplifier is replaced.

## **CALIBRATION (Model 8T8)**

The auto calibration feature of this computer automatically and easily compensates for variances in tank wall thickness, amplifier outputs and harness resistances. This feature, once activated, stores the calibration data in non-volatile memory on board the computer. The calibration data is accessed each time the computer is turned "on". Once the calibration data is stored the auto cal feature need not be used again unless a tank amplifier or tank is replaced. The auto cal feature only affects the "Fresh", "Grey" & "Black" holding tank levels. The auto cal has no effect on either the Volt or LPG or compass readings.

### **To activate the Auto Cal feature proceed as follows:**

1. Empty the Fresh, Grey & Black water holding tanks.
2. Turn the Computer "on" and select the holding tank screen.
3. Locate connector pins #12 & #13 on the 15 pin connector located on the computer on the end opposite the video connectors. Pin #15 is the pin closest to the #1 phillips screw on the end cover. Pin#14 is the next pin to the right of Pin #15. Pin #13 is to the right of Pin #14. Pin #12 is to the right of Pin #13 & etc. Once the tanks are emptied, momentarily short together Pins #12 & #13 to each other. In the center of the screen you will notice a "wait" and then a "done" message. When the word "DONE" appears it means the computer has stored those readings as empty readings.
4. Once "done" appears, fill the tanks to their fullest desired levels. Once the tanks have been filled to the desired levels and allowed to settle (approx. 1 minute) short together Pins #12&#13. Again notice a brief"wait" message followed by a "done" message. This means that the computer has taken the tank readings and stored them as "FULL" levels.
5. Turn "off" the computer, via the front panel switch,wait 3 seconds and turn the computer "on". The "done" message is gone and the computer is calibrated.

The computer may be calibrated as many times as necessary. Remember once the final "done" is displayed the computer must be turned "off" and then back "on" for the reading to be accurate.

## **COMPASS SENSOR**

The 8T8 computer utilizes a state of the art compass sensor. The sensor has its own on-board microprocessor that continually calibrates the sensor keeping it accurately able to define magnetic north. This sensor is so sophisticated that it has the ability to calibrate to individual vehicle tolerances. This feature is not utilized in FORETRAVEL Coaches at this time. The compass sensor has been fitted to

the FORETRAVEL Coach and, in its present configuration, is required to be located mounted facing forward.

The sensor must be mounted with the two (2) 3/8 square drive stainless steel screws provided. **THE USE OF ANY OTHER MOUNTING HARDWARE IS NOT APPROVED.**