



**ALADDIN™ SYSTEM
USER'S GUIDE**



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The information contained in this document is intended to reflect standard and optional equipment included in a typically equipped model at the time of delivery to the initial retail owner. Your actual unit may vary from this document as a result of optional equipment that is not generally offered on this model. In the case that you are not the initial retail owner of this unit, this document will not reflect modifications that may have been performed by previous owners.

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Monaco Coach Corporation {NYSE:MNC}

91320 Coburg Industrial Way
Coburg, Oregon 97408

Warranty/Tech Support

1-877-466-6226

www.monaco-online.com

CONTENTS

INTRODUCTION	3	Coach Data Screens	6
System Components	3	Trip Meter Screens	6
System Operation	4	Time and Alarm Screens	8
ALADDIN™ SCREENS	5	Camera Select Screens	10
Engine and Transmission Screens	5	System Options and Setup Screens	11

ALADDIN™ SYSTEM

INTRODUCTION

The Aladdin™ system provides accurate, up to the minute information on various chassis and house systems. This information allows the operator to make informed decisions regarding motorhome operation. The Aladdin™ system gathers chassis information from the engine and transmission electronics and house information from sensor modules distributed throughout the motorhome. The Aladdin™ information is displayed on a dash-mounted LCD screen and is accessed with a joystick controller mounted on the driver's console or dash.

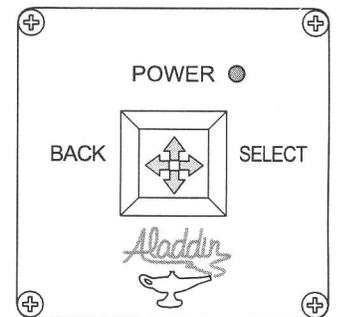
The Aladdin™ system also handles all exterior and optional see-vision camera views. Up to four cameras may be supported.

System Components

Joystick:

The joystick enables the operator to select various menu screens on the monitor display. The joystick allows the operator to select up, down, right or left. A joystick right enters a new menu, and a joystick left takes the operator back to the previous menu. Pushing the joystick up or down allows the operator to scroll through or change information. A cursor indicates movement on the screen.

Move the joystick in any direction to turn on the Aladdin™. A red LED on the joystick base indicates that system power is on. The operator may then navigate the various menus using the joystick. The LED will stay on and blink every five seconds while the Aladdin™ is on.



Aladdin™ Joystick 080377d

LCD Monitor:

The Aladdin™ information is displayed on a dash-mounted LCD screen.

To display the Aladdin™ System:

- Turn on the interior house power using the battery cut-off switch.
- Turn on the monitor if necessary. For models equipped with a flip-up screen, press the “Open” button to extend the monitor.
- Move the joystick to power on the Aladdin™ system.
- Move the joystick up or down to scroll through the menu. Move the joystick right to enter or left to exit.

NOTE:

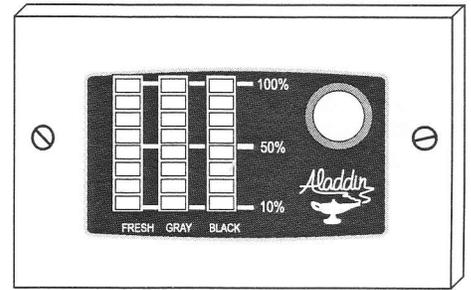
It may be necessary to press the Menu button on Weldex monitors to view the Aladdin™ menus.

Aladdin Reset Switch:

The Aladdin™ reset switch, located in an overhead cabinet in the cockpit area, resets the Aladdin™ to the main menu should the system “lock up”. It will not reset trip meters, compass calibration or alarm settings.

Tank Display:

The tank display is located in the water service bay. Tank level is shown in 10% increments on a lighted LED scale. The push-button switch turns the tank display on and off. The tank display will automatically shut down after 30 minutes of non-use.



Tank Display Module

040522b

System Operation

Turn the motorhome ignition switch on, or move the joystick to power on the Aladdin™ system. The Aladdin™ will power down when ignition is turned off unless the operator moves the joystick during a power off countdown.

The Aladdin™ can be powered down manually from the main menu by selecting the Power Down option.

Automatic Camera Selection:

The motorhome is equipped with a single rear view camera and optional side view cameras. Camera views will change automatically while driving if the system is on.

When the Aladdin system is powered on:

- The backup camera is selected when the transmission is placed in reverse.
- The left or right side camera is selected when the corresponding turn signal is activated.
- The backup camera is selected when hazard lights are activated.

Manual Camera Selection:

Select the “Camera Select” or “Select Video Source” option from the main menu. The Aladdin™ will display the video from each camera while changing views once every six seconds. A specific camera can be selected by moving the joystick up or down.

NOTE:

Camera views must be selected with the monitor controls on motorhomes equipped with a Weldex monitor.

Navigating the Main Menu and Submenus:

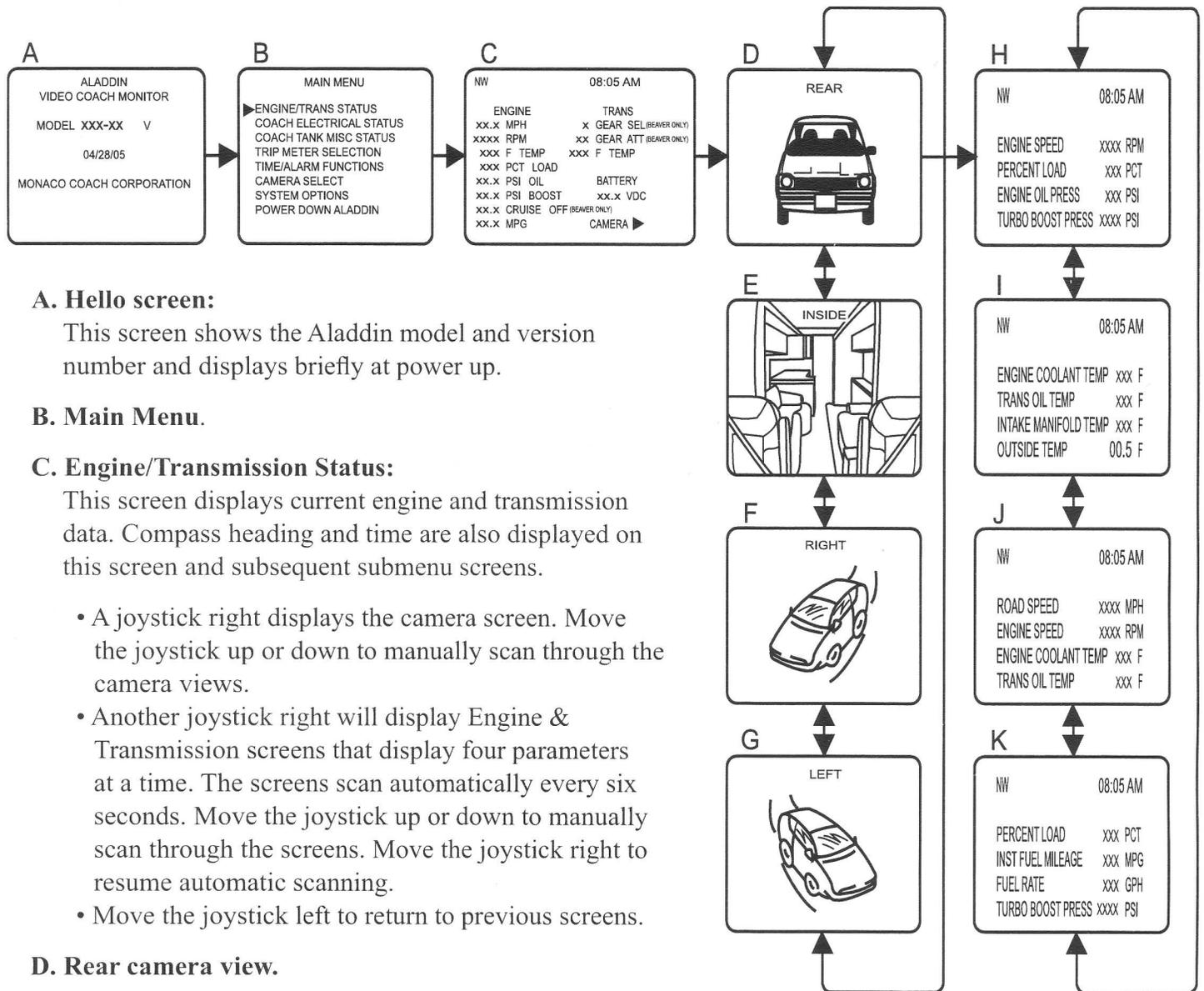
For ease of operation, the menus, submenus and screens are labeled with a letter designation. For example: A, AB, AC, etc. Choose any item on a menu by moving the joystick up or down. An arrow indicates the current menu item. A joystick right selects a menu item, and a joystick left goes back to the previous screen.

NOTE:

Interior 12 Volt DC house power must be on for the Aladdin™ to operate.

ALADDIN™ SCREENS

Engine and Transmission Screens



A. Hello screen:

This screen shows the Aladdin model and version number and displays briefly at power up.

B. Main Menu.

C. Engine/Transmission Status:

This screen displays current engine and transmission data. Compass heading and time are also displayed on this screen and subsequent submenu screens.

- A joystick right displays the camera screen. Move the joystick up or down to manually scan through the camera views.
- Another joystick right will display Engine & Transmission screens that display four parameters at a time. The screens scan automatically every six seconds. Move the joystick up or down to manually scan through the screens. Move the joystick right to resume automatic scanning.
- Move the joystick left to return to previous screens.

D. Rear camera view.

E. Interior camera view (Only available with optional See-Vision package).

F. Right camera view (Optional).

G. Left camera view (Optional).

NOTE:

Screens E, F and G will vary depending on model and options.

H. Large text engine/transmission display 1.

I. Large text engine/transmission display 2.

J. Large text engine/transmission display 3.

K. Large text engine/transmission display 4.

NOTE:

Cruise Off, Gear Attained and Gear Select in screen "C" apply to Beaver units only.

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Coach Data Screens

AA. Main Menu.

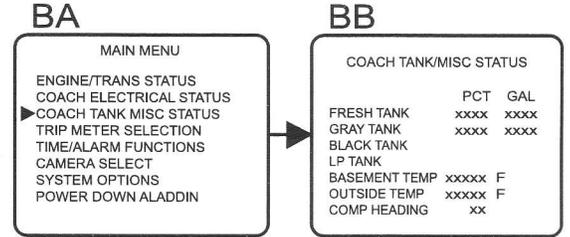
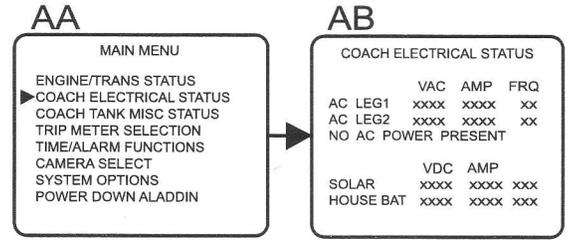
AB. Coach Electrical Status:

This screen displays AC and DC voltage and current readings.

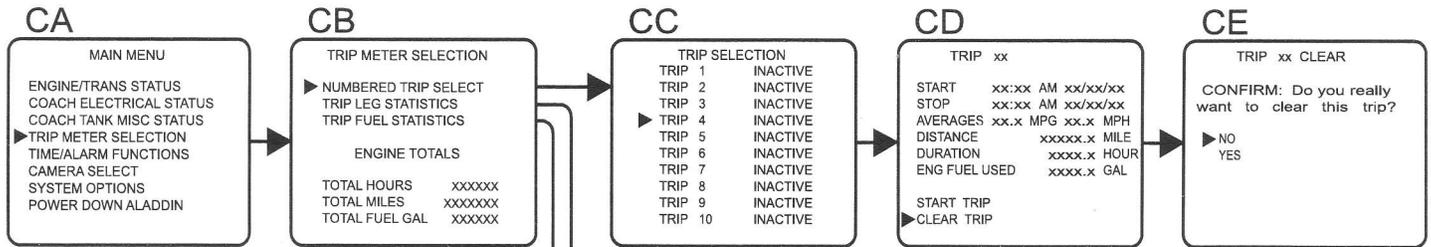
BA. Main Menu.

BB. Coach Tank/Misc Status:

This screen shows tank levels (except fuel tank), temperatures and compass heading.



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Trip Meter Screens

CA. Main Menu.

CB. Trip Meter Selection:

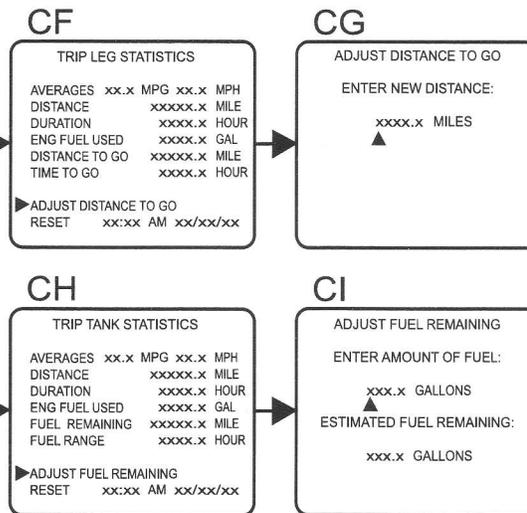
This screen allows selection of a numbered trip, trip leg statistics or fuel statistics. Engine Totals, including total engine hours, miles, and fuel usage, are also displayed.

CC. Trip Selection:

This screen displays the active status of ten numbered trips. Multiple trips can be active at the same time. A joystick right will display specific trip information.

CD. Trip Screen:

This screen displays specific trip information. The trip may be started, stopped or cleared from here.



020313c

NOTE:

Duration is the time the engine was running, not the clock time since the start of a trip. Duration is the time value used in calculating average MPH.

CE. Trip Clear confirmation screen.

CF. Trip Leg Statistics:

This screen displays trip information including distance and time left to go information. This screen is for recording trip statistics when travel distance is known.

To Start a Trip Leg:

- Select **Reset**. A trip length of 100 miles is set by default when Reset is selected. The time and date displayed at the bottom of the screen is the trip start time and is only changed when Reset is selected.
- Select **Adjust Distance To Go**. This screen allows the operator to specify a trip distance. Move the joystick left or right to select a digit in the trip length. Move the joystick up and down to modify that digit. A trip length can be specified up to 9999.9 miles long. The trip length can be adjusted at any time without affecting the data collected since the last reset.

CG. Adjust Distance To Go.

CH. Trip Tank Statistics:

This screen provides fuel remaining and fuel range data when the onboard fuel quantity is known.

- Select **Reset** to return the fuel remaining value to the fuel tank capacity limit. This will also reset the time and date the current trip started.
- Select **Adjust Fuel Remaining** to manually set the fuel remaining amount. Since the Aladdin™ bases fuel usage on numbers reported by the engine only, the amount of fuel remaining will be less with generator or Aqua-Hot (if equipped) use.

NOTE:

The “Adjust Fuel Remaining” value cannot be greater than the previously set fuel tank capacity; such values will be reset to the tank limit.

CI. Adjust Fuel Remaining Screen.

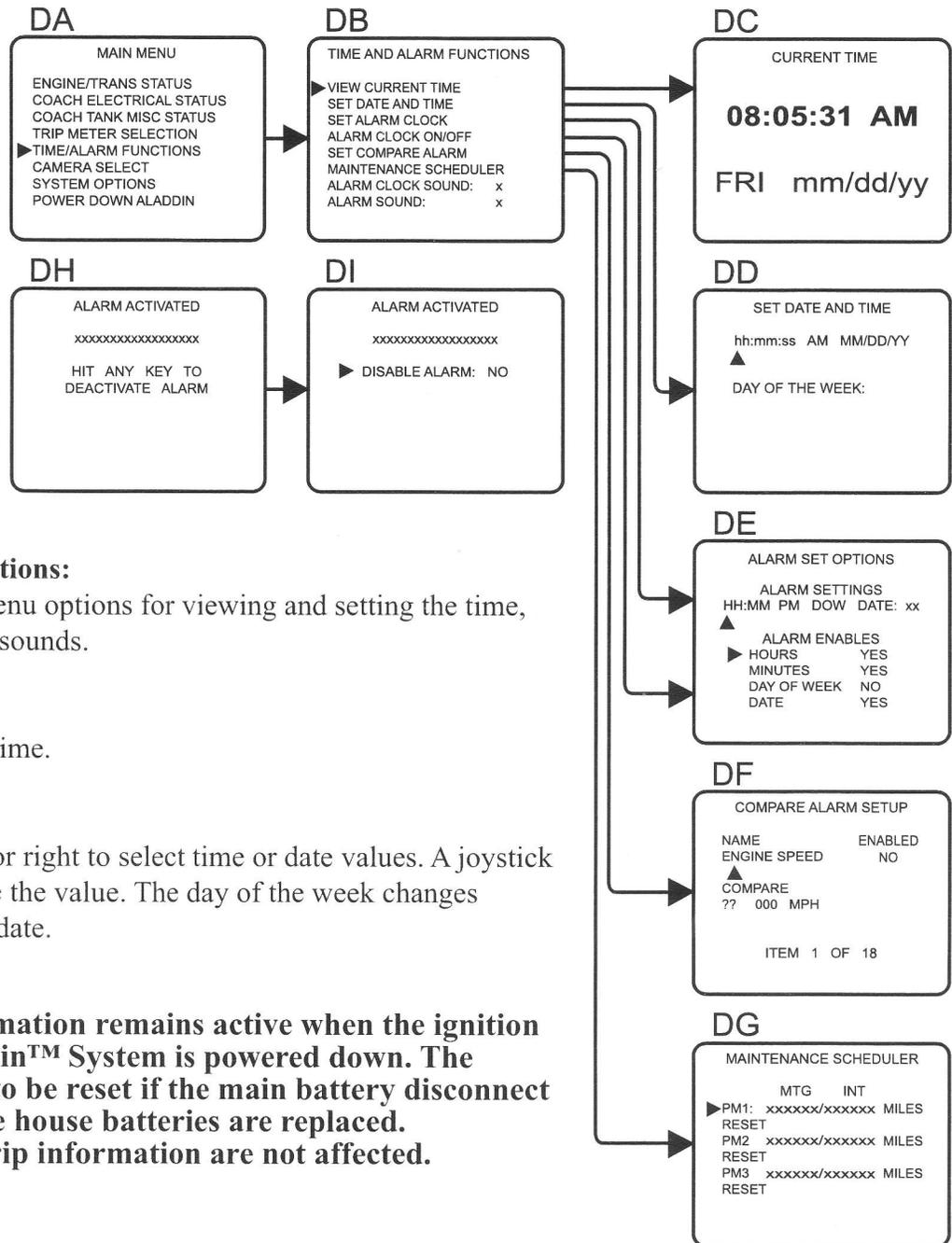
Summary:

Changes made to any of the Trip Meter selections, with the single exception of clearing a numbered trip, should be done while the ignition is on to enable the Aladdin™ to collect necessary information from the engine. The last available information will be used if the ignition is off when changes are made.

The status screen display may take several minutes after a change is made before it starts updating values. In the case of Duration, the display will not update for approximately six minutes because Duration is displayed to the tenth of an hour (six minutes).

The Aladdin™ requests engine statistics periodically from the engine for use with trip calculations. After such a change the next valid engine data will not be available for approximately one minute. The rate of data change is also influenced by motorhome speed, fuel rate and time.

Time and Alarm Screens



DA. Main Menu.

DB. Time and Alarm Functions:

This screen displays menu options for viewing and setting the time, date, alarms and alarm sounds.

DC. Current Time:

View current date and time.

DD. Set Date and Time:

Move the joystick left or right to select time or date values. A joystick up or down will change the value. The day of the week changes automatically with the date.

NOTE:

The clock and date information remains active when the ignition is turned off or the Aladdin™ System is powered down. The clock and date will need to be reset if the main battery disconnect switch is turned off or the house batteries are replaced. “Compare Alarm” and trip information are not affected.

DE. Alarm Set Options:

The alarm can be set to go off according to a specific minute, hour, day, date or any combination thereof. Move the joystick left or right to select a value and up or down to change a value. The digit or field currently selected will be highlighted.

NOTE:

Selecting Alarm clock On/Off at the main menu will send the cursor directly to the second half of the Alarm Set Options screen.

NOTE:

When an alarm occurs, the Alarm Activated screen (DH) is displayed and a beeping tone will sound. The source of the alarm condition is identified by the flashing text. Any joystick movement will turn off the alarm tone. A second joystick movement will return the operator to the Main Menu.

020313d

Alarm Clock Sound:

Select this option at the Time and Alarm Functions screen (DB). There are 14 different alarm clock sounds. Move the Joystick right to scroll through numbers 0 to 15. The selected alarm will sound after a slight delay. The number 0 and 15 have no alarm sound.

DF. Compare Alarm Setup:

The "Compare Alarm" function allows the user to set operation parameters for the motorhome. An alarm will sound when these parameters are met or exceeded. The Aladdin can continuously monitor up to 18 operation parameters at one time.

To Set the Compare Alarm:

- Move the joystick down to scroll through the following options. Move the joystick right to select.

1. Road Speed	7. Chassis Battery	13. House Battery
2. Engine Load	8. Fuel Remaining	14. Basement Temperature
3. Engine Speed	9. Fresh Tank	15. Outside Temperature
4. Coolant Temperature	10. Gray Tank	16. Miles to PM1
5. Trans Oil Temperature	11. Black Tank	17. Miles to PM2
6. Oil Pressure	12. LP-Gas Tank	18. Miles to PM3

- The cursor will now be under "Enable". Move the joystick up to select Yes.
- Move the joystick right. The cursor will now be under "Compare". Move the joystick down to scroll through the following options.

GT - Greater Than**GE - Greater Than or Equal To****EQ - Equal To****NEQ - Not Equal To****LE - Less Than or Equal To****LT - Less Than**

- Move the joystick right to select on option.
- Now the cursor will be at the parameter value. Move the joystick right or left to select digit and up or down to change digit value. The value type is noted next to the value (MPH, %, DC Voltage, etc.).
- Move the joystick left after setting the parameter to return to previous screens. The "Compare Alarm" is now set.

While there are many options for setting an alarm condition, not all possibilities are valid or sensible. An alarm condition of Road Speed Not Equal To 0 MPH would be activated as soon as the motorhome started moving. Additionally, while some options are reasonable, such as compare engine speed EQ 2000 RPM, in reality the alarm may not go off. The data being compared may never equal 2000, and instead may alternate between 1999 and 2001. Setting the compare option GT would produce the desired result. A compare less than zero (LT 000) is not allowed and will be converted to less than or equal to zero (LE 000).

Each enabled alarm is checked frequently while the Aladdin™ is operating. The alarm will activate once the comparison is made. Any joystick movement will cancel the alarm tone and disable further activation. It will then be necessary to re-enable the alarm.

Compare Alarm Sound:

Select the Alarm Sound option at the Time and Alarm Functions menu (DB). Move the joystick right to scroll through the alarm sound options. The selected alarm will sound after a slight delay.

DG. Maintenance Scheduler:

This screen displays statistics for three Preventive Maintenance (PM) items: PM1, PM2 and PM3. Each PM item displays two values: the first is the number of miles to go before each PM is scheduled (MTG), and the second is the interval in miles for that PM item (INT).

Select one of the three PM's and set the interval (INT) and then select reset. The system automatically updates Miles To Go (MTG).

Example: PM1 has an interval of 10,000 miles and is performed with 125 miles remaining. Select Reset to return to the 10,000 mile interval.

INFORMATION:

Refer to the OEM (Original Equipment Manufacturer) manual for recommended preventive maintenance schedules.

NOTE:

A compare alarm can be set for the PM miles to go. Modifying the maintenance interval will not automatically update the miles to go value. Miles to go will continue to count down until it reaches zero or is reset. Modifying maintenance intervals and resetting miles to go should be done with the ignition on so engine information is available for recording.

DH. Alarm Activated:

This screen displays when an alarm is activated. This is accompanied by the selected alarm sound. Move the joystick in any direction to cancel the alarm.

DI. Alarm Activated:

This alarm may be disabled or enabled for subsequent events. Move the joystick right to select Yes or No.

Camera Select Screens

Standard Equipment:

EA. Main Menu.

EB. Camera Select Screen.

EC. Rear Camera View.



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NOTE:

The camera views cannot be selected through the Aladdin system if the motorhome is equipped with a Weldex monitor. Press the Rear, Left or Right buttons on the Weldex monitor to select cameras. Press the Menu button to return to the Aladdin menu screen.

Optional Equipment:

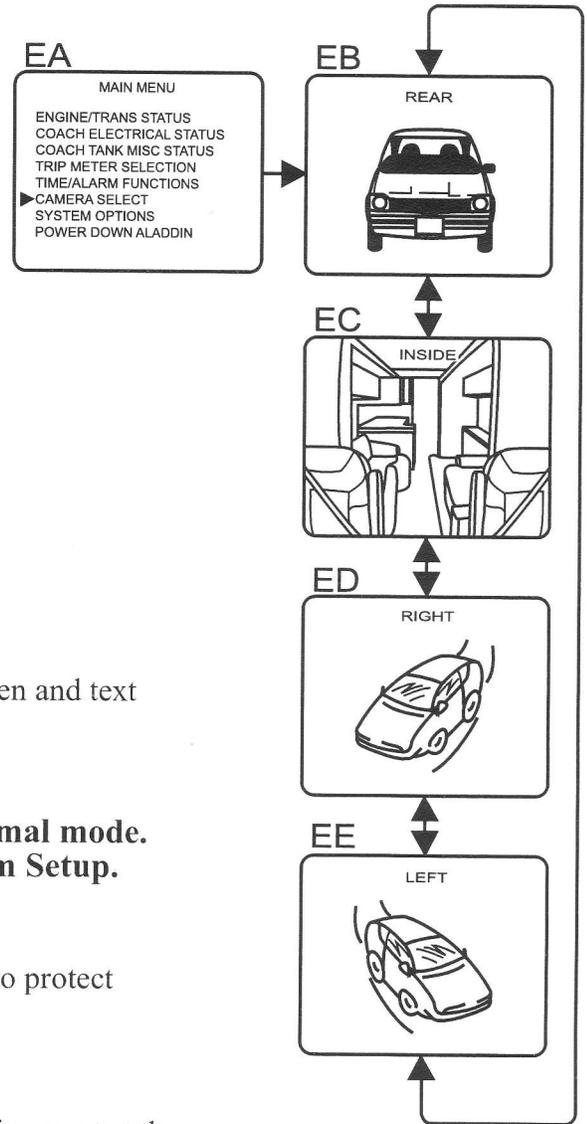
EA. Main Menu.

EB. Rear camera view.

EC. Interior view (optional).

ED. Right camera view (optional)

EE. Left Camera view (optional).



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System Options and Setup Screens

FA. Main Menu.

FB. System Options:

This screen displays the Aladdin™ firmware version, screen and text color options, and the compass calibration option.

NOTE:

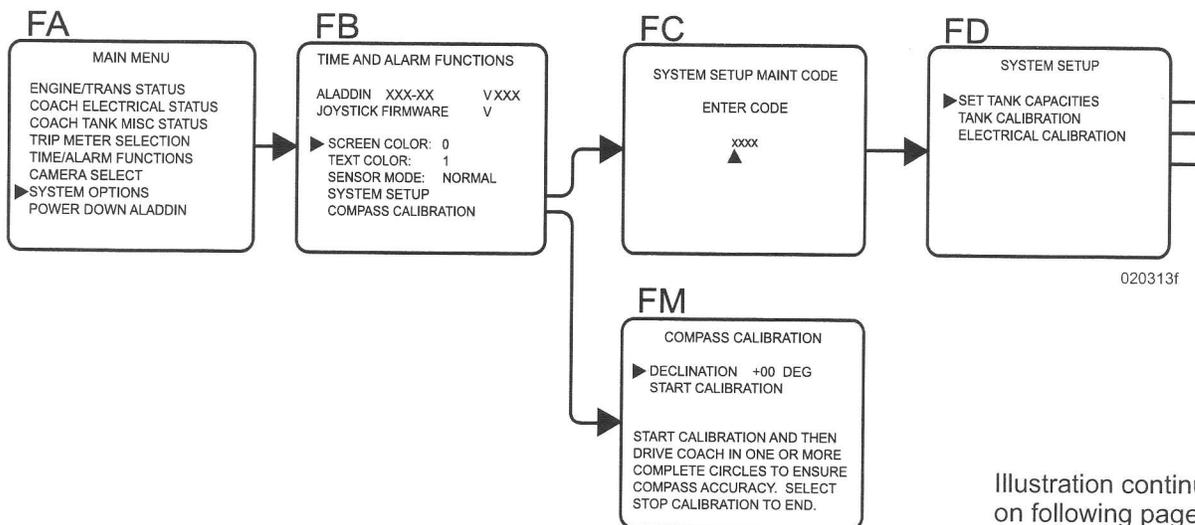
Sensor mode is for troubleshooting only. Leave in Normal mode. Only a qualified service technician should enter System Setup.

FC. System Setup Maintenance Code:

A password is required to enter the System Setup screen to protect calibration values from accidental changes.

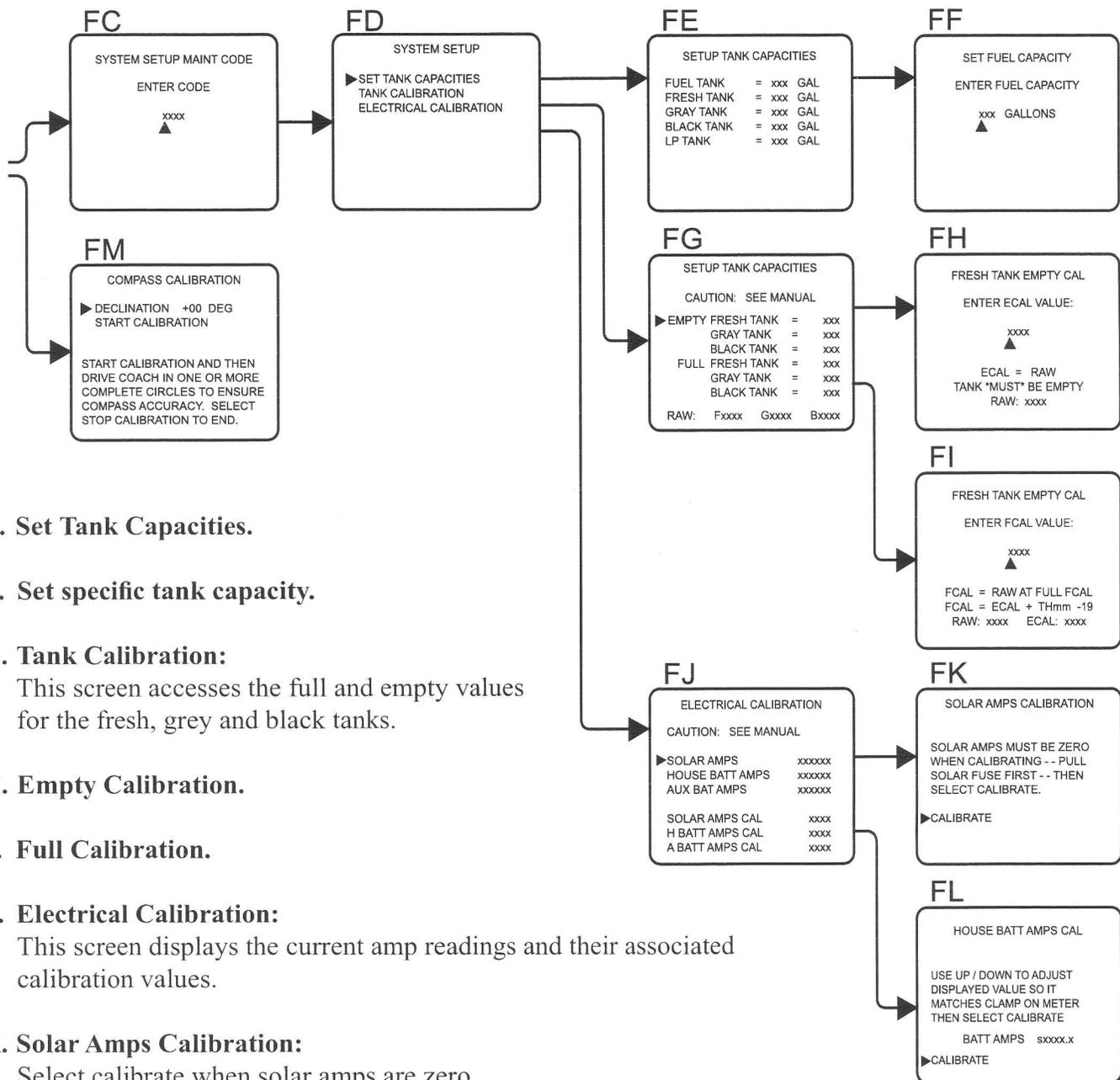
FD. System Setup:

The system is calibrated from this screen. All calibration is preset at the factory. Recalibration is only required with sensor replacement.



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Illustration continued on following page.



FE. Set Tank Capacities.

FF. Set specific tank capacity.

FG. Tank Calibration:

This screen accesses the full and empty values for the fresh, grey and black tanks.

FH. Empty Calibration.

FI. Full Calibration.

FJ. Electrical Calibration:

This screen displays the current amp readings and their associated calibration values.

FK. Solar Amps Calibration:

Select calibrate when solar amps are zero.

FL. House Battery Amps Calibration:

This screen displays the current amps reading. Move the joystick up or down to change the reading to match a known good clamp meter placed on the battery cable next to the current sensor. Select calibrate when readings match.

FM. Compass Calibration:

Compass calibration should be performed any time the system is worked on or major changes in the motorhome's magnetic field have occurred. This allows the compass to compensate for the metal construction within the motorhome. Declination can be set to 00 in order to display magnetic heading. The operator may also enter the area's true magnetic declination. The compass would then display a true compensated heading.

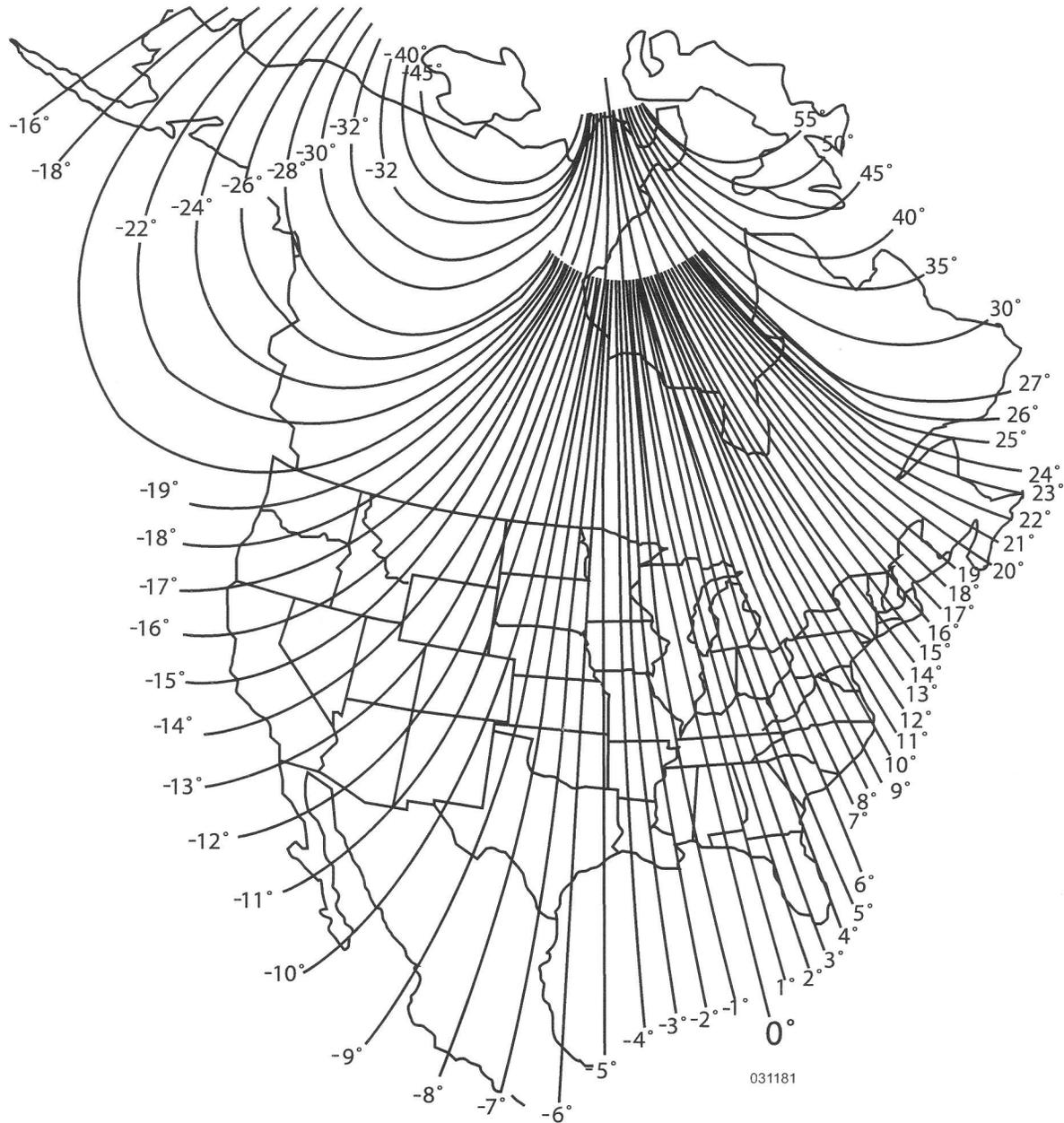
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To Calibrate Compass:

Select Start Calibration. Drive the motorhome in a full 360° circle. Select Stop Calibration after driving this loop. A “Calibration Successful” message should display. A calibration that fails will display “Calibration Fail” along with a failure code.

Declination Chart:

Use the map to determine the approximate local magnetic declination.





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