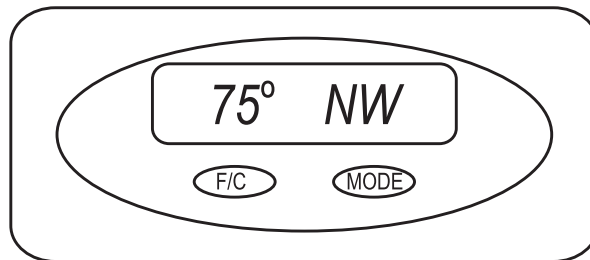


COMPASS & OUTDOOR TEMPERATURE SYSTEMS ADDENDUM



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Unit has two (2) buttons, **Mode** and **F/C**, which are used to change the unit between the various operating modes.

COMPASS MODES OF OPERATION

1. Unit displays temperature and heading.
2. Press the **F/C** button to toggle between displaying **C** and **F**.
3. If the unit has been properly calibrated, the heading will remain on continuously. If the unit does not have a valid calibration, the heading and word "**CAL**" will flash continuously.
4. If the temperature reading is valid, the temperature display will remain on continuously. If the temperature reading is invalid (due to an open or shorted temperature sensor), the temperature reading will flash continuously.
5. Unit goes to **SLEEP MODE** when ignition is turned off.

Ignition On Operation

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1. Unit enters **SLEEP MODE** when ignition is turned off.
 2. The display is blank and the unit is in a **LOW POWER MODE**.
 3. Unit wakes from **SLEEP MODE** and enters.
 - a. Ignition **ON** operation when the ignition is turned on or,
 - b. **CAMPING MODE** when the **F/C** or the **MODE** button is pressed for three (3) seconds.

Sleep Mode Operation

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1. Unit enters **CAMPING MODE** after the **F/C** button or **MODE** is pressed for (three) 3 seconds while in **SLEEP MODE**:
 2. Unit displays temperature and heading for ten (10) seconds, the display stays on if you continue to push either button and then returns to **SLEEP MODE** ten (10) seconds after the last button was pushed.

Camping Mode Operation

Nighttime Dimming

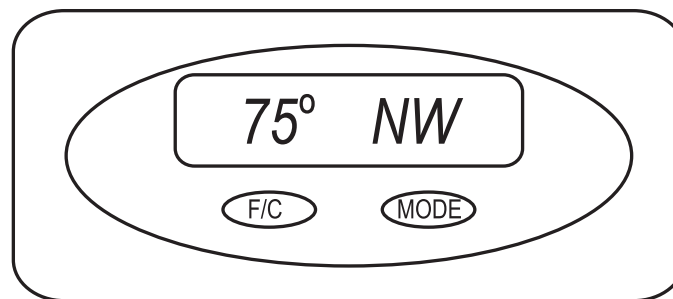
The display's brightness will be decreased by 50% when the motorhome headlamps are turned on.

Calibration

The compass must be calibrated after its initial installation and anytime the compass sensor is replaced or relocated. The calibration values are saved in EPROM memory, so it is not necessary to recalibrate if the battery is disconnected.

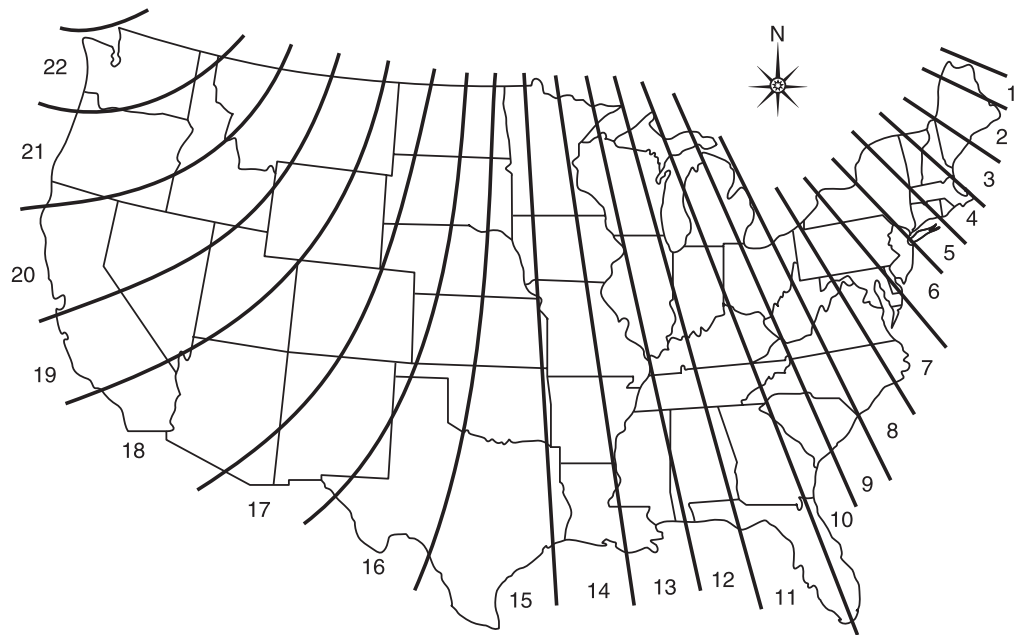
Calibration Routine

1. Press and hold the **MODE** button until the words "**ZONE**" and "**CAL**" appear (approximately ten (10) seconds). The unit will display the current Zone Value.
2. Press the **F/C** button to increment the Zone Value.
3. Press the **MODE** button to store the Zone Value.
4. The unit now displays the word "**CAL**." Press the **F/C** button to enter the calibration mode. The display will begin counting down from 60 seconds and the word "**CAL**" will flash. The driver should slowly drive in a circle during the 60-second calibration period. If the calibration procedure failed, the unit will flash the word "**CAL**" continuously. If the calibration procedure is successful, the unit will display the word "**CAL**" for five (5) seconds and then return to normal ignition on operation.



Zone Adjustment

When you travel outside the zone, the unit is currently set on; the compass has reduced accuracy. To achieve maximum accuracy, it is recommended to change the zone setting when traveling to a new zone in the U.S. To change the zone setting, follow steps (1) through (3) of the **CALIBRATION ROUTINE**, at which point the unit will display the word CAL. Press the **MODE** button again to skip calibrating. It is not necessary to recalibrate the compass when you change zones.



**Calibration
Routine**

Parameter	MIN	TYP	MAX	UNITS
<i>Operating Voltage</i>	9	12	18	VOLTS
<i>Operating Temperature</i>	-40	-	85	°C
<i>Storage Temperature</i>	-55	-	105	°C
<i>Supply Current @12V</i>				
<i>Active Mode</i>		0.3		AMPS
<i>Sleep Mode</i>		0.001		AMPS
<i>Compass Accuracy</i>	+/-5			DEGREES
<i>Compass Resolution</i>			45	DEGREES
<i>Temperature Measurement Accuracy</i>	+/-1			°C
<i>Temperature Display</i>	-40		127	°F
	-40		53	°C



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