

**Vehicle: All Technical Service Bulletins****RV-Meter Driving Range/Compass Display - Incorrect**

No.: TSB-01-54-011

DATE: November, 2001

MODEL: 2001-02 Montero

SUBJECT:

INCORRECT COMPASS DISPLAY AND RV-METER DISPLAY ERRORS AFTER REFUELING

PURPOSE

This bulletin addresses the following display error issues concerning the RV-Meter in the 2001-02 Montero:

^ Incorrect Compass Display

^ RV-Meter Driving Range Display Error After Re-Fueling

BACKGROUND INFORMATION

RV-Meter Driving Range Display Error After Re-Fueling

PROBLEM

A Customer may report that the RV-Meter Driving Range display does not Change after refueling.

CAUSE

This Condition will usually happen when less than 6.6 gallons of gasoline is put in the tank at a single stop. To prevent random Changes in the driving range reading due to sloshing of fuel in the tank, the Driving Range display will not update unless more than 6.6 gallons of fuel is pumped into the tank.

REMEDY

There is no remedy for this Condition, other than always pumping 6.6 gallons or more into the fuel tank at each fill up. This Condition is simply a characteristic of the RV-Meter. For Correct Driving Range display, inform the customer of the characteristics of the RV-Meter Driving Range display. Make sure they understand that if they fill the tank with less than 6.6 gallons of fuel, the Driving Range display will not show accurate information. Driving range information is covered in detail in the vehicle's owner's manual. Encourage customers to read the owner's manual to become familiar with the Driving Range feature.

**NOTE:**

If the Driving Range display is still incorrect after 6.6 or more gallons of fuel are pumped into the fuel tank, or if any other display feature of the RV-Meter is inaccurate, reset the meter. Resetting the RV-Meter can be accomplished by using the "Checking connection of system" instructions in the RV-Meter section of both the Owner's Manual and Service Manual These instructions are also in the PROCEDURES section of this bulletin. After resetting the RV-Meter display it will be necessary to reset the compass function. Instructions for resetting the compass are also included in this bulletin.

Incorrect Compass Display

Under certain circumstances or when driving long distances during a cross-country trip, it will be necessary to adjust the RV-Meter for compass variance.

Compass variance is the difference between the earth's magnetic north and true geographic north. If not adjusted, the compass displays incorrect direction readings.

For complete compass adjustment procedures, refer to the following Compass Calibration and Variance Adjustment procedures in this bulletin. For the customer's convenience, these procedures are also detailed in the vehicle owner's manual.

AFFECTED VEHICLES

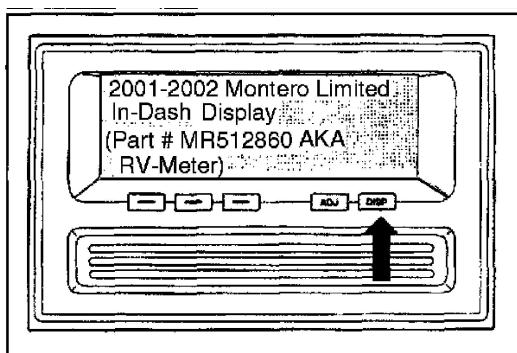
2001-02 Montero

PROCEDURES

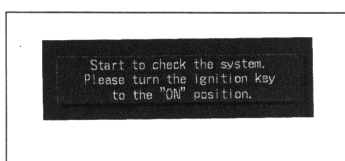
RESETTING THE RV-METER DISPLAY

## Checking Connection of System

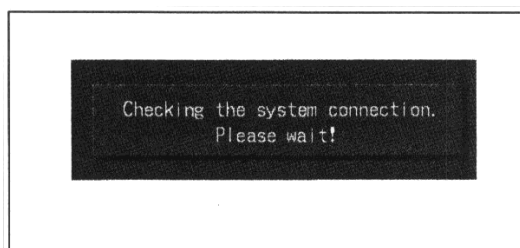
The RV-Meter is reset by using the following "system-connection-check" procedures. Use this procedure to reset the meter when the connection information is lost, when you encounter ANY display errors, or when ANY RV-meter information fails to display.



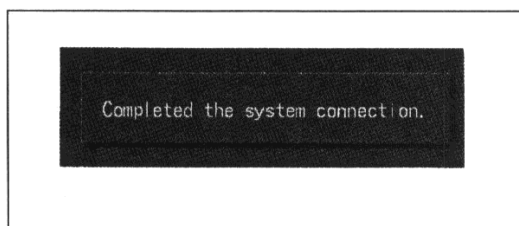
1. With the key in the OFF position, push and hold the "DISP" button.



2. While continuing to hold down the "DISP" button, turn the ignition switch to ACC position. Keep holding the "DISP" button until you hear a beep tone which will last for about 10 seconds. You should then see the display shown.



3. As instructed in the display in step 2, turn the ignition key to the ON position to start the system-connection - check.



4. Wait for approximately 8-seconds. The system will give a beep signal. When the connection is completed, this message will display.

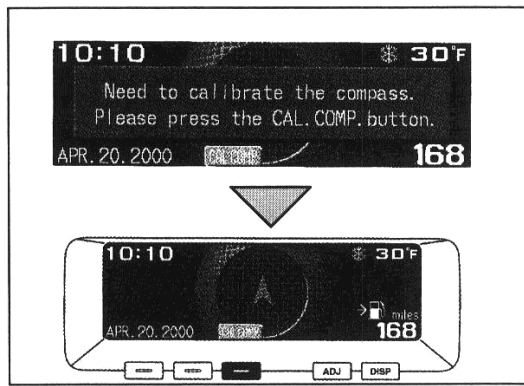
### NOTE:

After resetting the RV-meter it will be necessary to reset the compass. Use the following compass resetting procedures.

### INCORRECT COMPASS DISPLAY

#### A. Compass Calibration

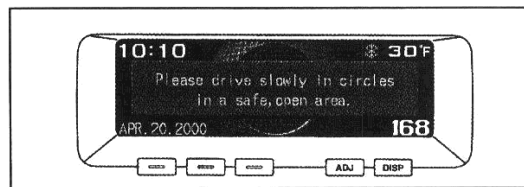
The compass will usually adjust automatically when the vehicle is moving. However the compass may at times require manual intervention. If this occurs, the RV-Meter will display the "Need to calibrate the compass" message. Follow the instructions below to calibrate the compass.



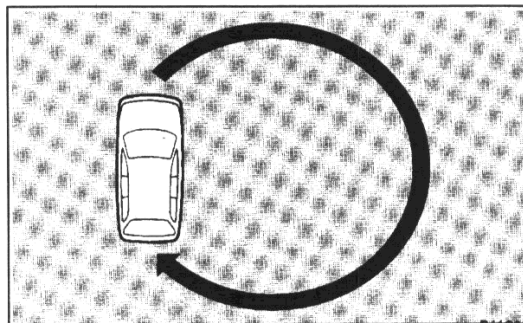
1. If the compass requires manual calibration, the "Need to calibrate the compass" message will appear on the display for about 7-seconds and the direction indicator will blink. Press the CAL COMP function button.

**NOTE:**

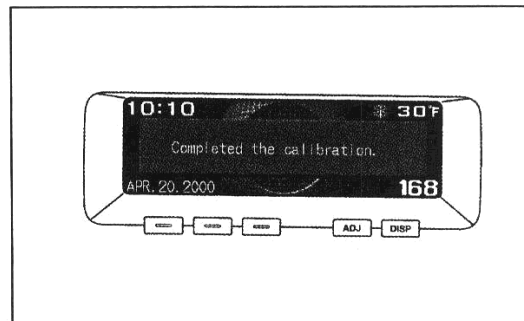
If the CAL COMP button is not pressed within the 7-second period, the display will change to a blank compass screen. If this happens, it will be necessary to again re-calibrate the compass by repeating steps 1 through 4.



2. Confirm this screen then follow the on-screen instructions.



3. Drive the vehicle slowly through a 360° turn in either direction in a safe, open space with no other vehicles or buildings around. This will automatically complete the adjustment, calibrating the compass to the correct azimuth.



4. After driving in circles, the adjustment completes automatically, and this message displays verifying completion of adjustment.

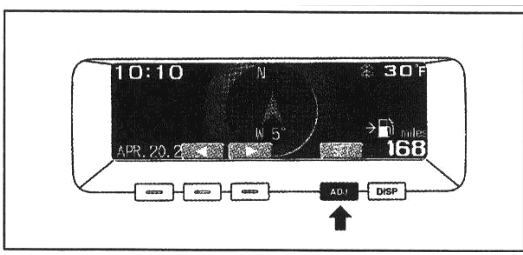
**NOTE:**

- a) The compass can only be adjusted at speeds of less than 2 mph (3 km/h).
- b) The display may sometimes show the adjustment completion message when the vehicle begins to turn but then returns to showing the original compass direction. In this case, the compass has not adjusted itself correctly. Make sure to turn the vehicle completely through a 360° turn.

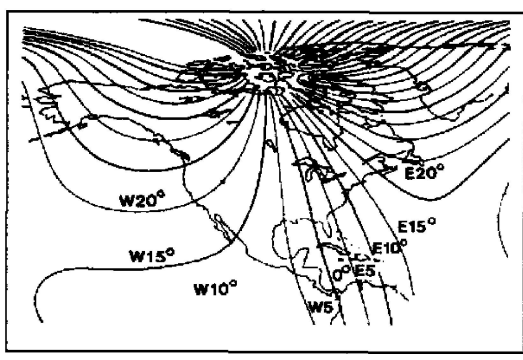
B. Compass Variance Adjustment

During PDI service and also under certain circumstances, as during a long distance cross-country trip, it will be necessary to adjust for compass variance.

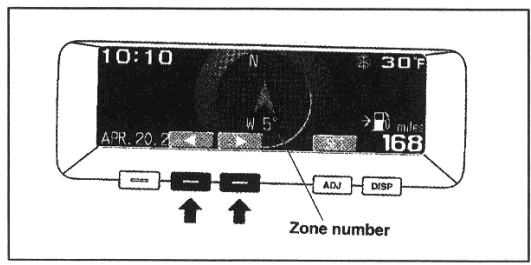
Compass variance is the difference between the earth's magnetic north and true geographic north. If not adjusted to account for compass variance, the compass could give false readings.



1. Press the "ADJ" button.



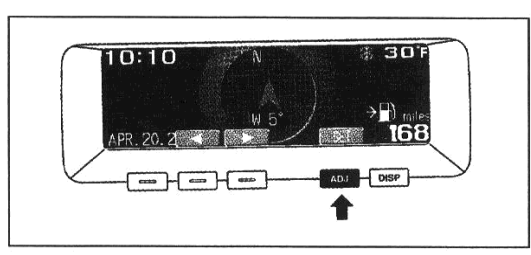
2. Find your current geographic location and the correct corresponding zone number on the zone map.



3. Press either the "<," or ">" function button until the correct zone number appears in the display.

**NOTE:**

Pressing either the "<" or ">" function button for more than one second will cause fast forwarding/reversing of the zone numbers.



4. When the compass variance is set, press the "ADJ" button.

**WARRANTY INFORMATION**

Malfunctioning or inoperative RV-Meters covered under MMSA warranty must ALWAYS be replaced using exchange units. DO NOT REPLACE AN RV-METER FROM DEALER STOCK.

Exchange units can be obtained from the same exchange centers you now use for Mitsubishi Electric radios, CD players, and amplifiers. For more information, refer to Warranty Bulletin 2001-014.

H & R Radio 800-523-6605 (East)

RSSC 800-727-2346 (Midwest)

Yamada Elec. 800-826-4926 (West)