TECHNICAL BULLETIN



Discovery Series II



Bulletin Nº: 0038 L8704bu CDS. ref: Issue: 1 Date: 15.08.01

AFFECTED RANGE:

Freelander and Discovery Series II 02MY fitted with combined Audio and Navigation system

PROBLEM:

NAVIGATION SYSTEM NOT FULLY OPERATIONAL

CAUSE:

Non-calibrated Navigation system

ACTION.



Calibration of the Navigation System should be carried out as part of the Pre Delivery Inspection (PDI). Part of the calibration process is to follow a road route shown in illustration 2, this should be carried out as part of the PDI road test.

Calibration Routine

1. Park the vehicle outside in an area clear of high buildings, trees etc.

NOTE: The more open the surrounding area is, the faster the system will acquire sufficient GPS satellite signals to begin calibration. To minimise the calibration time, the vehicle should not be moved again until the calibration ride.

NOTE: On NAS Freelanders, when the security system RF receiver is active it disrupts the GPS satellite signals. To allow the navigation system to operate, the RF receiver is deactivated when the ignition is on. During calibration, ensure the ignition remains on and that the vehicle is not parked next to a NAS Freelander with an active RF receiver.

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- 2. Turn the ignition switch to position II. If the navigation computer does not come on, press the navigation computer ON button.
- 3. If necessary, use the navigation computer multifunction buttons to enter the security code.
- 4. Call up the SENSORS screen on the LCD:
- Press and hold multifunction button 1 then press multifunction button 10.
- 5. Turn the LH rotary control to minimum volume.
- 6. Wait for 30 minutes. If necessary the engine can be started.

NOTE: Land Rover recommend a minimum of 30 minutes be allowed to elapse in order to ensure that only a short distance need be driven to achieve calibration.

- 7. After the 30 minutes have elapsed, ensure the navigation computer LCD shows a GPS almanac figure of 27 or higher.
- 8. Start the vehicle engine and allow to idle.
- 9. Install the navigation CD-ROM.
- 10. Wait until the navigation computer LCD prompts for a language to be selected. Turn the RH rotary control to scroll through the options, highlight the required language and press the RH rotary control to select.
- 11. The navigation computer LCD will prompt for a voice to be selected. Turn the RH rotary control to scroll through the options, highlight the required voice and press the RH rotary control to select.
- 12. Wait until the navigation computer LCD advises "language has been loaded OK". Press the RH rotary control to confirm the language and voice selections.
- 13. The navigation computer LCD will default to the CALIBRATION RIDE screen and should show the CALIBRATION RIDE CAN START message. The GPS data and the road speed counter will also be shown.
- 14. Drive the vehicle over a road route approximating that shown below (it is not necessary to copy the route exactly). Calibration is complete when the navigation computer LCD switches to show DESTINATION & POI and the satellite graphic. If all the pre calibration ride conditions were complied with, calibration is typically achieved within 3 miles (5 km) and usually occurs when the vehicle returns to the start point. However, calibration may be achieved earlier in the journey and, if it is, there is no need to complete the remainder of the calibration route.



- 15. After calibration is achieved, return to the dealership, park the vehicle and stop the engine.
- 16. Turn the ignition switch to position I.
- 17.Use the system settings menu to set the navigation computer to local time and the required units of measure:
 - a. Press the Nav button.
 - b. Turn the RH rotary control to scroll through the displayed menu, highlight TIME and press the RH rotary control to select. Press the + or – multifunction button to adjust the time in 30 minute steps. Select the 24 hour clock and confirm by pressing the OK multifunction button.
 - c. If metric units of measure are required, go to step e (the navigation computer defaults to metric units of measure).
 - d. If Imperial units of measure are required, turn the RH rotary control to scroll through the displayed menu, highlight MEASURING UNIT and press the RH rotary control to select. Turn the RH rotary control to highlight IMPERIAL and press the RH rotary control to select.
 - e. Press the Nav button to return to the destination menu.

18. Calibration is complete. The navigation system is ready for use.

NOTE: The accuracy of the system will automatically be fine tuned when a further journey is made, but this is not required as part of the calibration procedure.

NOTE: In European countries, the territory will have to be set the first time the navigation system is used, and the first time a destination in another country is selected. The first time the navigation system is used or a destination in another country is selected, a map is displayed with the default/current territory highlighted. To change the territory: Press the RH rotary control to display the territory list; turn the RH rotary control to scroll through the list and highlight the required territory; press the RH rotary control to confirm the selection.

PARTS INFORMATION: Not applicable

WARRANTY CLAIMS: Not applicable