

NO.5 VEHICLE POSITION DEVIATES FROM THE ROUTE MAP.

B3E090366000W06

5	Vehicle position deviates from the route map.
POSSIBLE CAUSE	<ul style="list-style-type: none"> • Jammed radio signals from after market equipment (radar, remote engine starter, anti-theft device etc.) • Open or short circuit in the wiring harness (vehicle speed signal related). • Car-navigation unit malfunction. • Poor connection of the GPS antenna connector, terminal damage • GPS antenna malfunction.

Diagnostic procedure

STEP	INSPECTION		ACTION
1	<ul style="list-style-type: none"> • Position the vehicle without any obstacles and receive GPS for 5 min at idle. • Does "GPS" show up on the right lower side of the display screen? 	Yes	Go to Step 3.
		No	Go to the next step.
2	<ul style="list-style-type: none"> • Is any of the following after-market equipment installed? - Radar - Remote engine starter - Anti-theft device. - Other 	Yes	Remove the after-market equipment and repeat Step 1 since those devices might be interrupting to GPS reception.
		No	Go to Step 6.
3	<p>Caution</p> <ul style="list-style-type: none"> • This procedure requires an assistant. • Press the "POS" button and display the current position map. • Drive the vehicle with NAVI mode. • Does the vehicle indicator move on the screen? 	Yes	Go to the next step.
		No	Replace the car-navigation unit. (See CAR-NAVIGATION UNIT REMOVAL/INSTALLATION.)
4	<p>Caution</p> <ul style="list-style-type: none"> • This procedure requires an assistant. • Drive the vehicle (approx. 4-5 km/h) with NAVI mode again. • Does the vehicle indicator move when enlarging scale while driving? 	Yes	Go to the next step.
		No	Go to Step 8.
5	<p>Caution</p> <ul style="list-style-type: none"> • This procedure requires an assistant. • Drive the vehicle and turn the steering wheel to the left and/or right. • Does the vehicle indicator follow the steering direction? 	Yes	<p>The system is normal.</p> <p>Note</p> <ul style="list-style-type: none"> • The vehicle indicator might be out of position in the following areas: <ul style="list-style-type: none"> - Parallel road, high-level road, loop road, tower type parking lot
			Replace the car-navigation unit. (See CAR-

		No	NAVIGATION UNIT REMOVAL/INSTALLATION.)
6	<ul style="list-style-type: none"> • Turn the ignition switch to the LOCK position. • Remove the car-navigation unit. (See CAR-NAVIGATION UNIT REMOVAL/INSTALLATION.) • Inspect the connection of the connector between the car-navigation unit and GPS antenna. • Is the connector securely connected? 	Yes	Go to the next step.
		No	Securely connect the GPS antenna connector (2-pin).
7	<ul style="list-style-type: none"> • Disconnect the GPS antenna connector. • Inspect both GPS antenna connector and car-navigation unit connector for poor connection (such as damaged/pulled-out pins, corrosion). • Are all the pins normal? 	Yes	Replace the car-navigation unit. (See CAR-NAVIGATION UNIT REMOVAL/INSTALLATION.)
		No	<p>If the GPS antenna side connector is wrong: Replace the GPS antenna. (See GPS ANTENNA REMOVAL/INSTALLATION.)</p> <p>If the car-navigation unit side connector is wrong: Replace the car-navigation unit. (See CAR-NAVIGATION UNIT REMOVAL/INSTALLATION.)</p>
8	<ul style="list-style-type: none"> • Turn the ignition switch to the LOCK position. • Remove the car-navigation unit. (See CAR-NAVIGATION UNIT REMOVAL/INSTALLATION.) • Inspect the car-navigation unit connector (16-pin). • Disconnect the car-navigation unit connector (16-pin). • Inspect both car-navigation unit connector and wiring harness-side connector terminal H for poor connection (such as damaged/pulled-out pins, corrosion). • Are all the pins normal? 	Yes	Inspect for vehicle speed signal input circuit. Repair or replace if necessary.
		No	<p>If poor connection of car-navigation unit connector: Securely connect the car-navigation unit connector.</p> <p>If the car-navigation unit connector is wrong: Replace the car-navigation unit. (See CAR-NAVIGATION UNIT REMOVAL/INSTALLATION.)</p> <p>If the wiring harness-side connector is wrong: Repair or replace the pins and/or the connector.</p>