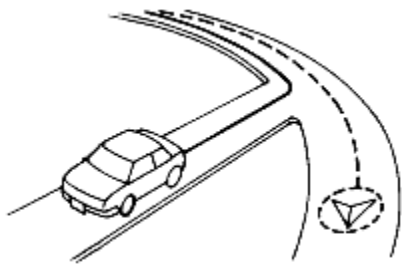
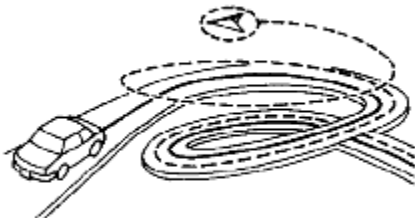


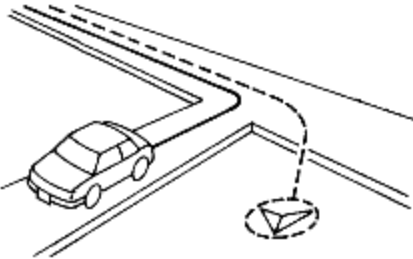
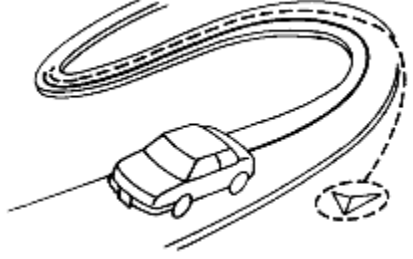
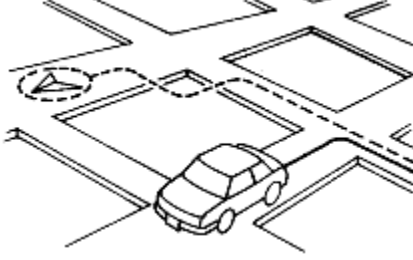
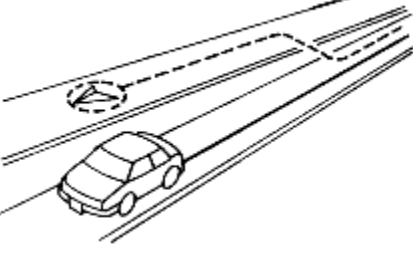
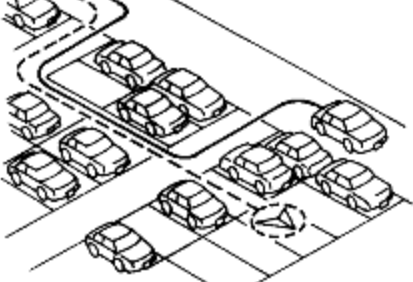
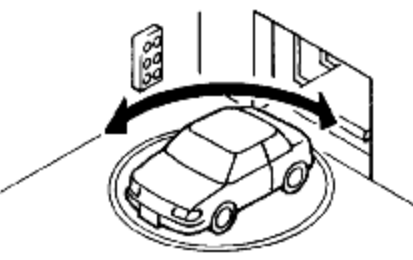
# MAP MATCHING OPERATION


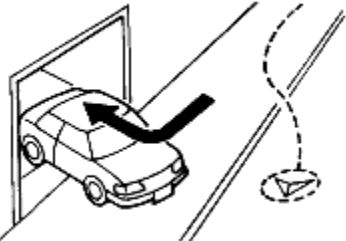
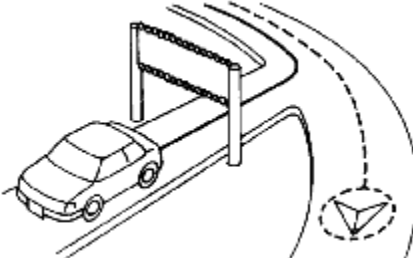
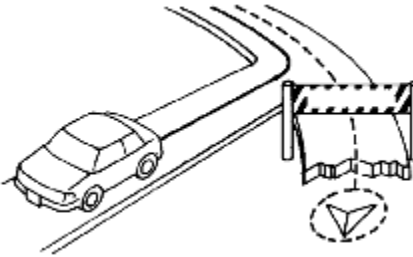
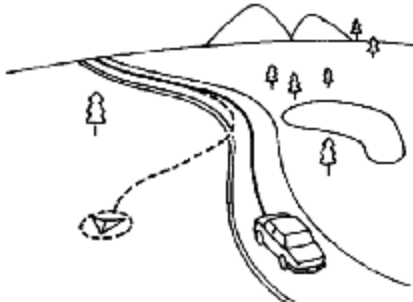
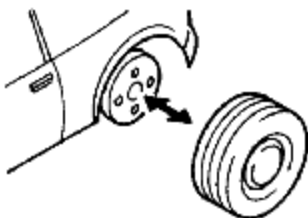
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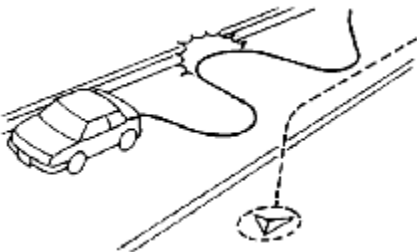
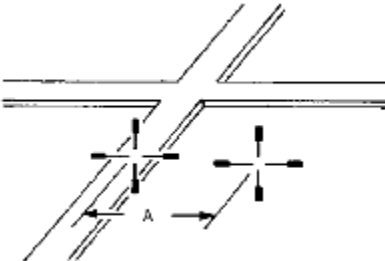
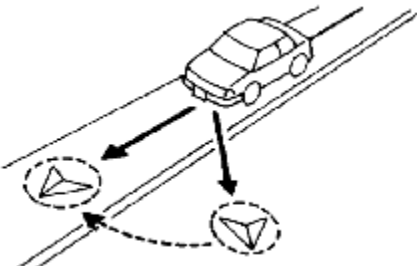
## Map Matching Remarks

- When using the navigation system for the first time after purchase or for the first time after a long period during which it was not used, it may take about 5-15 min. until the current position is measured. Also, even during normal use, it may take about 2-3 min. for measurement.
- The map matching function proposes route correction on an order of priority other than the currently indicated route. Therefore, when the navigation unit detects travelling speed or progressive direction errors, it could mistake the order of priority and fail to correct the route.
- Due to the system operation principles, the map matching function may be unable to determine which route a vehicle is taking when there are similar roads around the vehicle, and may not correct the vehicle's position until it can find a particular route.
- While driving on a road that does not exist in the map data or when the actual vehicle's position is far away from the position indicated by the vehicle locator mark, map matching will not be performed.
- When the route can not be calculated, manually shift the vehicle locator mark to a major road near the destination and recalculate. Also, in certain map data situations, the distance to the destination calculation may be different.
- Under the following driving conditions and GPS satellite conditions, the vehicle locator mark may deviate from the actual position of the vehicle. This does not indicate any breakdown in the system and if driving continues for a while, the current position will be corrected automatically.

Cause (Condition)	Driving condition	Remarks (Solution etc.)
	<ul style="list-style-type: none"> <li>• At a Y-shaped fork in the road where the roads separate gradually, the vehicle locator mark may be displayed on the wrong road.</li> </ul>	
	<ul style="list-style-type: none"> <li>• If the vehicle makes continuous, large turns, for example on a loop structure, the vehicle locator mark may go off the road altogether.</li> </ul>	<ul style="list-style-type: none"> <li>• If the vehicle locator mark does not return to the correct position within approx. 10 km {6.2 mile} of driving, move the vehicle's position manually.</li> </ul>
	<ul style="list-style-type: none"> <li>• After driving for a long distance in a straight line or through gentle curves, if the vehicle turns a corner, the vehicle locator mark may be displayed on the wrong road.</li> </ul>	

		
	<ul style="list-style-type: none"> <li>• On a zigzag road, the vehicle locator mark may go off the road.</li> </ul>	
	<ul style="list-style-type: none"> <li>• If the roads form a grid, the vehicle locator mark may go off the road.</li> </ul>	
	<ul style="list-style-type: none"> <li>• If there are parallel roads nearby, for example motorways and service roads, the vehicle locator mark may go off the road.</li> </ul>	
	<ul style="list-style-type: none"> <li>• If driving in an area where roads are not available on the map, the vehicle locator mark may deviate from the correct position when the vehicle returns to the road. Also, when you turn or go back and forth repeatedly, the vehicle locator mark may not line up correctly with the road.</li> </ul>	<ul style="list-style-type: none"> <li>• If the vehicle locator mark does not return to the correct position within approx. 10 km {6.2 mile} of driving, move the vehicle's position manually.</li> </ul>
	<ul style="list-style-type: none"> <li>• If the vehicle rotates on a turntable, the navigation system may have difficulty returning the vehicle locator mark to the road correctly.</li> </ul>	

	<ul style="list-style-type: none"> <li>• On slippery roads; for example, snow and ice-covered roads, wet roads, gravel roads, the vehicle locator mark may deviate from the correct road.</li> </ul>	
	<ul style="list-style-type: none"> <li>• If the vehicle turns on an embankment; for example, at a parking garage entrance, on slope or banked roads, the vehicle locator mark may go off the road.</li> </ul>	
	<ul style="list-style-type: none"> <li>• If driving on a new road not registered in the map data, the navigation system may incorrectly match the vehicle's position with a nearby road and when the vehicle returns to a road available in the map data, the vehicle locator mark may be off the correct road.</li> </ul>	
	<ul style="list-style-type: none"> <li>• If the road registered in the map data and the actual road configuration differ, the vehicle locator mark may be off the correct road.</li> </ul>	<ul style="list-style-type: none"> <li>• If the vehicle locator mark does not return to the correct position within approx. 10 km {6.2 mile} of driving, move the vehicle's position manually.</li> </ul>
	<ul style="list-style-type: none"> <li>• For regions where there is no detailed map, the navigation system compares regions where there are detailed maps and configuration is sometimes not expressed correctly. Also, because few minor roads are registered, when the vehicle drives on a road not available in the map data, the vehicle locator mark may go off the correct road.</li> </ul>	
	<ul style="list-style-type: none"> <li>• If the vehicle has tire chains, the distance travelled is not correctly detected and the vehicle locator mark may go off the correct road.</li> </ul>	
<p>Non-stop continuous driving.</p>	<ul style="list-style-type: none"> <li>• If the vehicle moves a long distance continuously without stopping, the vehicle locator mark may go off the</li> </ul>	<ul style="list-style-type: none"> <li>• If the distance remains incorrect even after driving for a while, execute "Calibration".</li> <li>• Stop for a moment and correct the vehicle's position and movement</li> </ul>

	correct road.	orientation.
	<ul style="list-style-type: none"> <li>• If the vehicle moves erratically, for example spinning wheels, the vehicle locator mark may go off the correct road.</li> </ul>	<ul style="list-style-type: none"> <li>• If the vehicle mark does not return to the correct position within approx. 10 km {6.2 mile} of driving, move the vehicle's position manually.</li> </ul>
	<ul style="list-style-type: none"> <li>• In locations such as cities where there are a lot of roads, if the setting accuracy is poor when the vehicle's position is moved, the navigation system may be unable to find the correct road and accuracy may drop.</li> </ul>	<ul style="list-style-type: none"> <li>• Input with precision (A) of approx. 1 mm {0.039 in} on the screen with a road displayed on the vehicle position movement screen. (As much as possible, correct with the detailed map scale.)</li> </ul>
	<ul style="list-style-type: none"> <li>• If the vehicle's position is moved and the vehicle direction does not match, the accuracy may drop afterwards.</li> </ul>	<ul style="list-style-type: none"> <li>• Correct with the vehicle's position and movement direction correction function.</li> </ul>