



# CARS™ Curve Reports

## Warning Explanations & Causes

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### Warning: There are no selected passes

Only “good” passes are considered for selection. A pass will not be automatically selected if the GPS Fit is low or the radius is over 10,000 ft. In addition a user can manually de-select a pass. Select at least one pass or see below on how to resolve each specific cause.

### Warning: There is no selected pass in direction: right or left

This warning is triggered when there is no pass in a specific direction (left or right). Select a pass or see below on how to resolve each specific cause.

### Pass # contains a GPS fit below the design parameters of this system. The results should be verified.

Warning is caused by a GPS Fit below 88% for a specific pass. Try changing the selection area using the two pins or nudge tools as specified in the User’s Manual to see if the fit increases. If this does not improve the fit, the pass should be rerun or removed from the curve selection to clear the warning.

### Pass # contains a test speed below the design requirements of this system. The results should be verified.

Warning is caused by an Test Speed below 9 mph for a specific pass. The pass should be rerun or removed from the curve selection to clear the warning.

### Pass # contains a Calculated Advisory Speed that exceeds the design parameters of this system. The results should be verified.

Warning is caused by a Calculated Advisory Speed determined to be above 100 mph for a specific pass. Verify the pass is valid using the techniques specified in the User’s Manual. This is often caused by evaluating a straight (or straighter) section of road (see warning for radius in excess of 10,000 ft).

### Pass # contains a Curve Radius that exceeds the design parameters of this system. The results should be verified.

Warning is caused by a Curve Radius above 10,000 ft for a specific pass. This is often caused by evaluating a straight (or straighter) section of road. The system is based on ball banking practices that are not designed for evaluation straight sections.

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**Pass# does not contain verification of the inclinometer calibration since the data was collected. The results should be verified.**

Warning is caused by a calibration check not being recorded after the data was collected. Perform a calibration check on the device used to collect the data and upload to the portal to clear the warning.

**Pass # contains a test speed that changed significantly throughout the pass. The results should be verified.**

Warning is caused by a Test Speed that varied more than 10 mph during the section of the curve selected on a specific pass. Pass needs to be rerun at a more constant Test Speed or removed from the curve selection to clear the warning.

**Pass # does not contain collected BBI data. The results should be verified.**

Warning is caused by an equipment error where inclinometer data was not recorded. Pass needs to be rerun or removed from the curve selection to clear the warning.

**Posted speed limit not entered. The default lateral friction has been applied. Confirm the lateral friction meets the MUTCD guidelines for this corridor.**

Warning is caused by no Posted Speed Limit being entered into the system. The lateral friction standards are based on the MUTCD standards that reference the Posted Speed Limit. Enter a Posted Speed Limit to clear the warning.

**Posted speed limit not entered. The sign requirements should be verified.**

Warning is caused by no Posted Speed Limit being entered into the system. The signage requirements are based on the speed differentials between the Recommended Advisory Speed and the Posted Speed Limit. Enter a Posted Speed Limit to remove the warning.

**IMPORTANT NOTICE:** The Rieker® Curve Advisory Reporting Service (CARS™) provides recommendations based on the methods for Establishing Advisory Speed published by the US Federal Highway Administration, the 2009 MUTCD and the data collected by the user. Due to the inherent variability of road geometries, driving practices, and data analysis, the results should be verified by qualified personnel, licensed to practice in the municipality for which these data are intended to be used.

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