



# TT427: HDLAN/CAN SYSTEM VEHICLES - INCORRECT ODOMETER VALUE

2017-11-01



Electrical

APPLIES TO	SYMPTOMS
HDLAN/CAN system vehicles	<ul style="list-style-type: none"><li>Instrumentation with incorrect values</li></ul>

## Reason for Revision

Refer to Table 1.

**Table 1. Document History**

Date	Revision Description
2012-08-21	Initial release
2017-10-24	Updated <b>Complete Document</b>

## Reason for Tech Tip

Technical Services is receiving an increased number of calls related to incorrect odometer values in HDLAN (Harley-Davidson local area network)/CAN (Controller area network) vehicle speedometers and ECM (Electronic control module)s. This condition occurs when the original ECM or speedometer is disconnected and substituted with the ECM or speedometer from a different motorcycle without first removing the main fuse from both vehicles. If the technician installs an ECM or speedometer from another motorcycle for diagnostic purposes, it could result in an increased odometer value, if the main fuse on both vehicle is not removed first. The higher odometer value from either ECM or speedometer is stored in the speedometer of the vehicle on which it is installed.

## Theory

The ECM and speedometer stores the VIN (Vehicle identification number) and mileage and checks that both figures match. The odometer displays VINERR or VIN ERROR if the VINs in the components do not match.

## Resolution

Always remove the main fuse, per the service manual, before disconnecting or connecting the ECM or speedometer. It is important to perform this task any time an electrical component is serviced.

If a **new** ECM or speedometer is required, it will become married pair after 50 km (31.1 mi) of riding.