

| Application                                                                                          | Key On Engine Off                                                                                                                                | Key On Engine Running | Continuous Memory |
|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------|
| F-650/F-750,<br>F-Series Super Duty,<br>Fiesta,<br>Fusion,<br>Motorhome/Stripped<br>Chassis/Step Van | GO to Pinpoint Test DF .                                                                                                                         |                       |                   |
| Manual Transmission                                                                                  | GO to Pinpoint Test DP .                                                                                                                         |                       |                   |
| Automatic Transmission                                                                               | The PCM uses information from the ABS module and the transmission control module (TCM) to calculate vehicle speed. Check these modules for DTCs. |                       |                   |

## DIAGNOSTIC TROUBLE CODE (DTC) CHARTS AND DESCRIPTIONS > P0501 - VEHICLE SPEED SENSOR A RANGE/PERFORMANCE - DTC CHART

### P0501 - VEHICLE SPEED SENSOR A RANGE/PERFORMANCE - DTC CHART

| <b>Description:</b>                                                                    |                                                                            |                       |                   |
|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------|-------------------|
| <b>Possible Causes:</b>                                                                |                                                                            |                       |                   |
| <b>Diagnostic Aids:</b> Refer to the service information , Electronic Engine Controls. |                                                                            |                       |                   |
| Application                                                                            | Key On Engine Off                                                          | Key On Engine Running | Continuous Memory |
| All                                                                                    | Refer to the Description, Possible Causes and Diagnostic Aids for the DTC. |                       |                   |

## DIAGNOSTIC TROUBLE CODE (DTC) CHARTS AND DESCRIPTIONS > P0503 - VEHICLE SPEED SENSOR (VSS) A INTERMITTENT/ERRATIC/HIGH - DTC CHART

### P0503 - VEHICLE SPEED SENSOR (VSS) A INTERMITTENT/ERRATIC/HIGH - DTC CHART

|                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Description:</b> This DTC sets when an incorrect or noisy VSS signal is detected. Vehicle speed data is received from either the VSS or the anti-lock brake system (ABS) module.                                                                                                                                                                                                                                                  |
| <b>Possible Causes:</b> <ul style="list-style-type: none"> <li>Noisy VSS input signal from radio frequency interference or electromagnetic interference external sources, such as ignition components or the charging circuit</li> <li>Damaged VSS or driven gears</li> <li>Damaged VSS wiring harness or connectors</li> <li>Concern in the modules or circuits connected to the VSS circuit</li> <li>Aftermarket add-on</li> </ul> |