



Volvo Chassis - Automated Manual Transmission Model F (AMT-F, I-Shift) - Possible Infrequent Hiccup/Stumble During Steady Engine/Vehicle Speed; Diagnostic Trouble Code P1074-92, P1074-94, P1074-96 Logging, Appears As Inactive - Common Model Years 201



> Internal Content

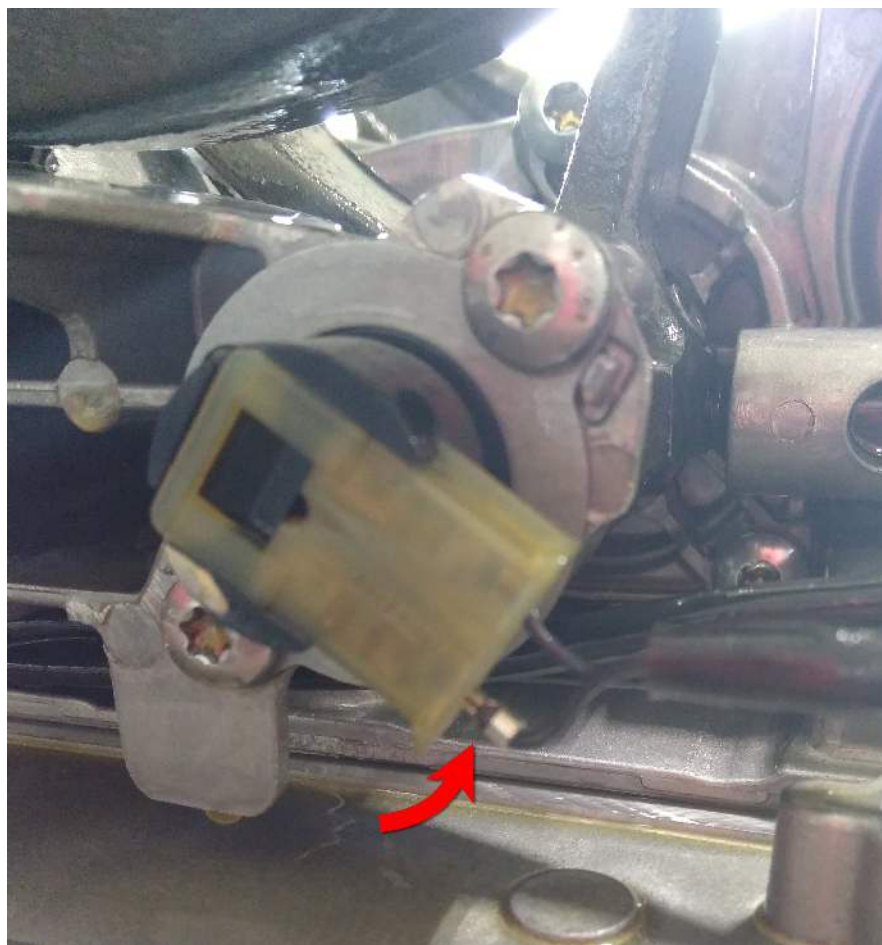
If a vehicle presents the symptoms described above:

1. Using Premium Tech Tool (PTT) run Operation [4311-08-03-02 - Input Signals for Gear Selection](#), located under the Test tab.
2. Monitor the [Transmission 2/3 Cylinder Position](#), located under the [Gearbox Actuator](#) section of the test while operating the transmission to replicate the issue.

- During steady state operations, the signal for the shifter should be stable.
- If the position values are found to fluctuate, the signal can get outside the MIN/MAX values and the TECU will think the shifter has left the position it was in.

3. If the signal is fluctuating: Inspect the internal wiring harness.

- The internal wiring harness have been found in a some cases to have terminals that have pushed back in the connector and not making good connection. An example is shown below:



4. Proceed according to findings:

- **If pins are found to be pushed out of the connector:** Reinstall the terminals in the connector and verify that the locking tabs are holding the terminals.



Tags

[volvo](#) [p107492](#) [k43113098](#) [p1074-92](#)

- **if the connector is found to be bad:** replace the harness.

[amt-f with crawler gears](#)

[amt-f without crawler gears](#)

5. verify the repair.

Related links and attachments

No links or attachments available



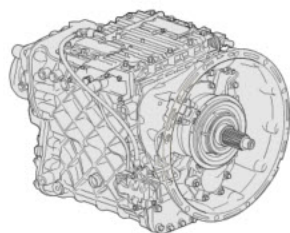
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Live UI



4311-08-03-02 Input Signals for Gear Selection

 Simulation

Information >> Execution

Purpose

To evaluate if all signals used for gear selection are displayed correctly and with reasonable values

Description

- All signals and values must be evaluated to see if they correspond to reality
- The test gives a good understanding of the most vital internal signals and sensors
- All relevant diagnostic trouble codes (DTCs) must be corrected
- It is possible to run this operation in the workshop (stationary) or while driving (two persons required)

 **Note:** After performing a stationary test and a test drive, run the test again in replay mode to properly evaluate all signals and values

Transmission Function description

Continue >

Cancel



▼

Driver input

▼

Engine and Transmission Speeds

▼

Vehicle speed

▼

Vehicle data

▼

Clutch and Gear

▼

Gearbox actuator

▼

Mode

▼

Sensors

4311-08-03-02 Input Signals for Gear Selection

 Simulation

Information >> Execution

Action

- Start the test
- It is possible to run this operation in the workshop (stationary) or while driving (two persons required)
- If a problem occurs, take notes of the time on the X-axis of the graph. The notes can be used as a reference when evaluating the recorded values in replay mode

Evaluation

- Check that all signals and values are stable and without abnormal deviations
- Check that all signals are displaying realistic values according to the actual conditions

 **Note:** After performing a stationary test and a test drive, run the test again in replay mode to properly evaluate all signals and values

▼ Additional information

Transmission_Function description



▼

Driver input

▼

Engine and Transmission Speeds

▼

Vehicle speed

▼

Vehicle data

▼

Clutch and Gear

▼

Gearbox actuator

▼

Mode

▼

Sensors



Continue >