

# Basic Diagnostic Procedure

## VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

### 1. Basic Diagnostic Procedure

#### A: PROCEDURE

##### CAUTION:

Remove foreign matter (dust, water, oil etc.) from the VDCCM&H/U connector during removal and installation.

##### NOTE:

- To check the harness for open or short circuits, shake problem spot or connector.
- Refer to "Check List for Interview". <Ref. to VDC(diag)-4, Check List for Interview.>

| Step                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Check                                                                            | Yes                                         | No                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b><br><b>CHECK PRE-INSPECTION.</b><br>1) Ask the customer when and how the trouble occurred using the interview check list. <Ref. to VDC(diag)-4, Check List for Interview.><br>2) Before performing diagnostics, check the component which might affect VDC problems. <Ref. to VDC(diag)-8, INSPECTION, General Description.>                                                                                                                                                                                                                                                                    | Is the component that might influence the VDC problem normal?                    | Go to step 2.                               | Repair or replace each component.                                                                                                                                                                                                                            |
| <b>2</b><br><b>CHECK INDICATION OF DTC.</b><br>1) Turn the ignition switch to OFF.<br>2) Connect the Subaru Select Monitor to data link connector.<br>3) Turn the ignition switch to ON and run the Subaru Select Monitor.<br>4) Read the DTC using the Subaru Select Monitor. <Ref. to VDC(diag)-23, OPERATION, Read Diagnostic Trouble Code (DTC).><br><b>NOTE:</b><br>If the communication function of the Subaru Select Monitor cannot be executed properly, check the communication circuit. <Ref. to VDC(diag)-20, COMMUNICATION FOR INITIALIZING IMPOSSIBLE, INSPECTION, Subaru Select Monitor.> | Is DTC displayed on Subaru Select Monitor?                                       | Record the DTC.<br>Go to step 4.            | Go to step 3.                                                                                                                                                                                                                                                |
| <b>3</b><br><b>PERFORM GENERAL DIAGNOSTICS.</b><br>1) Perform the inspection by referring to "General Diagnostic Table". <Ref. to VDC(diag)-104, INSPECTION, General Diagnostic Table.><br>2) Perform the Clear Memory Mode. <Ref. to VDC(diag)-25, OPERATION, Clear Memory Mode.><br>3) Perform the Inspection Mode. <Ref. to VDC(diag)-24, PROCEDURE, Inspection Mode.><br>4) Read the DTC. <Ref. to VDC(diag)-23, OPERATION, Read Diagnostic Trouble Code (DTC).><br>5) Check the DTC is not displayed.                                                                                              | Do the VDC warning light and ABS warning light go off after starting the engine? | Finish the diagnosis.                       | Check the combination meter circuit. <Ref. to VDC(diag)-30, ABS WARNING LIGHT DOES NOT GO OFF, Warning Light Illumination Pattern.> <Ref. to VDC(diag)-31, VDC WARNING LIGHT AND VDC OFF INDICATOR LIGHT DO NOT GO OFF, Warning Light Illumination Pattern.> |
| <b>4</b><br><b>CHECK FREEZE FRAME DATA.</b><br>Using the Subaru Select Monitor, check the freeze frame data of the VDC control module.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Are freeze frame data recorded?                                                  | Record the freeze frame data. Go to step 5. | Go to step 5.                                                                                                                                                                                                                                                |

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| Step |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Check             | Yes                                   | No                    |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------|-----------------------|
| 5    | <b>PERFORM DIAGNOSIS.</b><br>1) Refer to "List of Diagnostic Trouble Code (DTC)".<br>NOTE:<br>For the DTC list, refer to "List of Diagnostic Trouble Code (DTC)". <Ref. to VDC(diag)-34, LIST, List of Diagnostic Trouble Code (DTC).><br>2) Correct the cause of trouble.<br>3) Perform the Clear Memory Mode. <Ref. to VDC(diag)-25, OPERATION, Clear Memory Mode.><br>4) Perform the Inspection Mode. <Ref. to VDC(diag)-24, PROCEDURE, Inspection Mode.><br>5) Read the DTC. <Ref. to VDC(diag)-23, OPERATION, Read Diagnostic Trouble Code (DTC).> | Is DTC displayed? | Repeat step 5 until DTC is not shown. | Finish the diagnosis. |