CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

17. Diagnostic Procedure with Diagnostic Trouble Code (DTC)

A: DTC P0500 VEHICLE SPEED SENSOR "A"

DTC DETECTING CONDITION:

- Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-5, DTC P0500 VEHICLE SPEED SENSOR "A", Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

VDC does not operate.

	Step	Check	Yes	No
1	CHECK DTC.	Is DTC displayed?	Perform the diag-	Repair the poor
	Read the DTC of VDC system using the Subaru		nosis according to	contact of connec-
	Select Monitor.		DTC. <ref. th="" to<=""><th>tor and harness</th></ref.>	tor and harness
			VDC(diag)-42, List	between
			of Diagnostic Trou-	VDCCM&H/U and
			ble Code (DTC).>	wheel speed sen-
				sor.

B: DTC P0601 INTERNAL CONTROL MODULE MEMORY CHECKSUM ERROR DTC DETECTING CONDITION:

- Detected when two consecutive driving cycles with fault occur.
- GENERAL DESCRIPTION < Ref. to GD(CVT)-6, DTC P0601 INTERNAL CONTROL MODULE MEMORY CHECKSUM ERROR, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

TCM ROM malfunction

	Step	Check	Yes	No
1	CHECK DTC.	Is DTC P0601 displayed?	Replace the TCM.	Current condition
	 Perform the Clear Memory Mode using the 		<ref. th="" to<=""><th>is normal. Check</th></ref.>	is normal. Check
	Subaru Select Monitor. <ref. cvt(diag)-17,<="" th="" to=""><th></th><th>CVT(TR690)-126,</th><th>for interference</th></ref.>		CVT(TR690)-126,	for interference
	Clear Memory Mode.>		Transmission Con-	from noise, etc.
	Read the DTC.		trol Module	
			(TCM).>	

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

C: DTC P0604 INTERNAL CONTROL MODULE RANDOM ACCESS MEMORY (RAM) ERROR

DTC DETECTING CONDITION:

- Detected when two consecutive driving cycles with fault occur.
- GENERAL DESCRIPTION <Ref. to GD(CVT)-7, DTC P0604 INTERNAL CONTROL MODULE RANDOM ACCESS MEMORY (RAM) ERROR, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

TCM RAM malfunction

	Step	Check	Yes	No
ľ	1 CHECK DTC.	Is DTC P0604 displayed?	Replace the TCM.	Current condition
	1) Perform the Clear Memory Mode using the		<ref. th="" to<=""><th>is normal. Check</th></ref.>	is normal. Check
	Subaru Select Monitor. <ref. cvt(diag)-17,<="" th="" to=""><th></th><th>CVT(TR690)-126,</th><th>for interference</th></ref.>		CVT(TR690)-126,	for interference
	Clear Memory Mode.>		Transmission Con-	from noise, etc.
	2) Read the DTC.		trol Module	
			(TCM).>	

D: DTC P062F INTERNAL CONTROL MODULE EEPROM ERROR

DTC DETECTING CONDITION:

- Detected when two consecutive driving cycles with fault occur.
- GENERAL DESCRIPTION <Ref. to GD(CVT)-8, DTC P062F INTERNAL CONTROL MODULE EEPROM ERROR, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

TCM EEPROM malfunction

	Step	Check	Yes	No
1	CHECK DTC.	Is DTC P062F displayed?	Replace the TCM.	Current condition
	1) Perform the Clear Memory Mode using the		<ref. th="" to<=""><th>is normal. Check</th></ref.>	is normal. Check
	Subaru Select Monitor. <ref. cvt(diag)-17,<="" th="" to=""><th></th><th>CVT(TR690)-126,</th><th>for interference</th></ref.>		CVT(TR690)-126,	for interference
	Clear Memory Mode.>		Transmission Con-	from noise, etc.
	Read the DTC.		trol Module	
			(TCM).>	

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

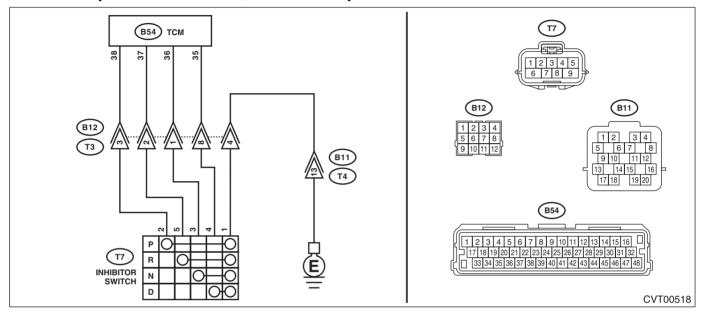
E: DTC P0705 TRANSMISSION RANGE SENSOR CIRCUIT (PRNDL INPUT) DTC DETECTING CONDITION:

- · Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-9, DTC P0705 TRANSMISSION RANGE SENSOR CIRCUIT (PRNDL INPUT), Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

- Shift characteristics are erroneous.
- The range position of the select lever and the position of shift indicator display do not match.

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK INPUT SIGNAL FOR TCM. 1) Turn the ignition switch to ON. 2) Move the select lever to each range, and read the data of «P range», «R Range Signal», «N range» and «D Range Signal» using the Subaru Select Monitor.	Is display "OFF" for the range other than corresponding range?	Go to step 5.	Go to step 2.
2	CHECK HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM and transmission connectors. 3) Measure the resistance between TCM connector and chassis ground. Connector & terminal (B54) No. 38 — Chassis ground: (B54) No. 37 — Chassis ground: (B54) No. 36 — Chassis ground: (B54) No. 35 — Chassis ground:	Is each resistance 1 $M\Omega$ or more?	Go to step 3.	Repair the short circuit of body harness.
3	CHECK HARNESS. 1) Disconnect the inhibitor switch connector. 2) Measure the resistance between transmission connector and chassis ground. Connector & terminal (T3) No. 3 — Chassis ground: (T3) No. 2 — Chassis ground: (T3) No. 1 — Chassis ground: (T3) No. 8 — Chassis ground:	Is each resistance 1 $M\Omega$ or more?	Go to step 4.	Repair the short circuit of transmission harness.

	Step	Check	Yes	No
4	CHECK INHIBITOR SWITCH. Move the select lever to each range, and measure the resistance between inhibitor switch connector terminals. Connector & terminal (T7) No. 2 — (T7) No. 1: (T7) No. 5 — (T7) No. 1: (T7) No. 3 — (T7) No. 1: (T7) No. 4 — (T7) No. 1:	Is the resistance other than corresponding range 1 $\mbox{M}\Omega$ or more?	Go to step 5.	Replace the inhibitor switch. <ref. cvt(tr690)-92,="" inhibitor="" switch.="" to=""></ref.>
5	CHECK FOR POOR CONTACT.	Is there poor contact between TCM, inhibitor switch, transmission ground?	Repair the poor contact.	Replace the TCM. <ref. to<br="">CVT(TR690)-126, Transmission Con- trol Module (TCM).></ref.>

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

F: DTC P0708 AT RANGE SWITCH NOT INPUTTED

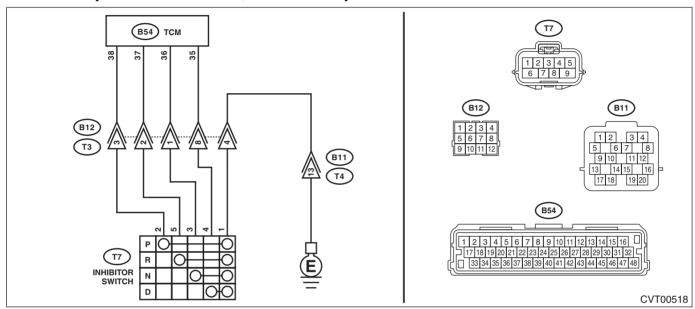
DTC DETECTING CONDITION:

- · Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-10, DTC P0708 AT RANGE SWITCH NOT INPUTTED, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

- Shift characteristics are erroneous.
- The range position of the select lever and the position of shift indicator display do not match.

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK INPUT SIGNAL FOR TCM. 1) Turn the ignition switch to ON. 2) Move the select lever to each range, and read the data of «P range», «R Range Signal», «N range» and «D Range Signal» using the Subaru Select Monitor.	Is the display of the corresponding range "ON"?	Go to step 7.	Go to step 2.
2	CHECK HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM and transmission connectors. 3) Measure the resistance of harness between TCM connector and transmission connector. Connector & terminal (B54) No. 38 — (B12) No. 3: (B54) No. 37 — (B12) No. 2: (B54) No. 36 — (B12) No. 1: (B54) No. 35 — (B12) No. 8:	Is each resistance less than 1 Ω ?	Go to step 3.	Repair the open circuit of body harness.
3	CHECK HARNESS. Measure the resistance of harness between inhibitor switch connector and transmission ground. Connector & terminal (T7) No. 1 — Transmission ground:	Is the resistance less than 1 Ω ?	Go to step 4.	Repair the open circuit of harness.

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

	Step	Check	Yes	No
4	CHECK HARNESS. 1) Disconnect the inhibitor switch connector. 2) Measure the resistance between transmission connector and inhibitor switch connector. Connector & terminal (T3) No. 3 — (T7) No. 2: (T3) No. 2 — (T7) No. 5: (T3) No. 1 — (T7) No. 3: (T3) No. 8 — (T7) No. 4:	Is each resistance less than 1 Ω ?	Go to step 5.	Repair the open circuit of transmission harness.
5	CHECK INHIBITOR SWITCH. Move the select lever to each range, and measure the resistance between inhibitor switch connector terminals. Connector & terminal (T7) No. 2 — (T7) No. 1: (T7) No. 5 — (T7) No. 1: (T7) No. 3 — (T7) No. 1: (T7) No. 4 — (T7) No. 1:	Is the resistance of the corresponding range less than 1 $\mbox{M}\Omega\mbox{?}$	Go to step 6.	Replace the inhibitor switch. <ref. cvt(tr690)-92,="" inhibitor="" switch.="" to=""></ref.>
6	CHECK HARNESS. 1) Turn the ignition switch to ON. 2) Measure the voltage between each connector and chassis ground. Connector & terminal Transmission connector (B12 side) (B12) No. 3 (+) — Chassis ground (-): (B12) No. 2 (+) — Chassis ground (-): (B12) No. 8 (+) — Chassis ground (-): Transmission connector (T7 side) (T7) No. 2 (+) — Chassis ground (-): (T7) No. 5 (+) — Chassis ground (-): (T7) No. 3 (+) — Chassis ground (-): (T7) No. 4 (+) — Chassis ground (-):	Is each voltage less than 1 V?	Go to step 7.	Repair the harness which outputs 1 V or more.
7	CHECK FOR POOR CONTACT.	Is there poor contact between TCM, inhibitor switch, transmission ground?	Repair the poor contact.	Replace the TCM. <ref. to<br="">CVT(TR690)-126, Transmission Con- trol Module (TCM).></ref.>

G: DTC P0711 ATF TEMP. SENSOR CIRCUIT RANGE/PERFORMANCE DTC DETECTING CONDITION:

- Detected when two consecutive driving cycles with fault occur.
- GENERAL DESCRIPTION <Ref. to GD(CVT)-11, DTC P0711 ATF TEMP. SENSOR CIRCUIT RANGE/PERFORMANCE, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

- Excessive shift shock
- · Shift characteristics malfunction

NOTE:

For the diagnostic procedure, perform the diagnosis according to DTC P0712 and P0713. <Ref. to CVT(diag)-42, DTC P0712 TRANSMISSION FLUID TEMPERATURE SENSOR CIRCUIT LOW INPUT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CVT(diag)-44, DTC P0713 TRANSMISSION FLUID TEMPERATURE SENSOR CIRCUIT HIGH INPUT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

H: DTC P0712 TRANSMISSION FLUID TEMPERATURE SENSOR CIRCUIT LOW INPUT

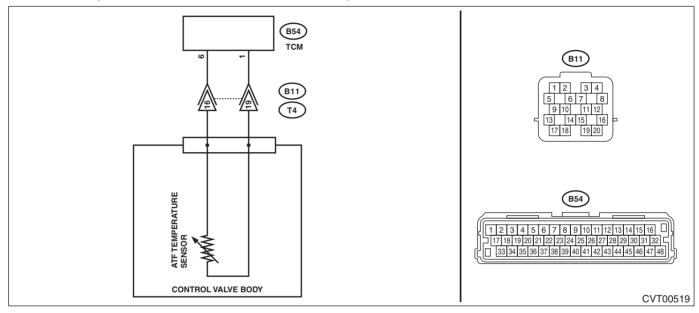
DTC DETECTING CONDITION:

- · Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-12, DTC P0712 TRANSMISSION FLUID TEMPERATURE SENSOR CIRCUIT LOW INPUT, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

- Excessive shift shock
- · Shift characteristics malfunction

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM connector. 3) Measure the resistance of harness between TCM connector and chassis ground. Connector & terminal (B54) No. 1 — Chassis ground: (B54) No. 6 — Chassis ground:	Is the resistance 1 M Ω or more?	Go to step 4.	Go to step 2.
2	CHECK HARNESS. 1) Disconnect the transmission connector. 2) Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 16 — Transmission body: (T4) No. 19 — Transmission body:	Is the resistance 1 $M\Omega$ or more?	Repair the short circuit of body harness.	Go to step 3.
3	CHECK HARNESS INSIDE TRANSMISSION. CAUTION: Start work after ATF cools down. 1) Remove the transmission oil pan. 2) Check for the harness pinch, damage.	Is there any fault in the harness?	Replace the transmission harness.	Go to step 4.

	Step	Check	Yes	No
4	CHECK ATF TEMPERATURE SENSOR.	Is resistance as follows?	Replace the TCM.	Replace the con-
	Measure the resistance between transmission	Fluid temperature $0^{\circ}C \rightarrow$	<ref. th="" to<=""><th>trol valve body.</th></ref.>	trol valve body.
	connector terminals.	Approx. 6.2 kΩ	CVT(TR690)-126,	<ref. th="" to<=""></ref.>
	Connector & terminal	Fluid temperature 20°C →	Transmission Con-	CVT(TR690)-112,
	(T4) No. 16 — No. 19:	Approx. 2.6 kΩ	trol Module	Control Valve
		Fluid temperature 80°C →	(TCM).>	Body.>
		Approx. 370 Ω		

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

I: DTC P0713 TRANSMISSION FLUID TEMPERATURE SENSOR CIRCUIT HIGH INPUT

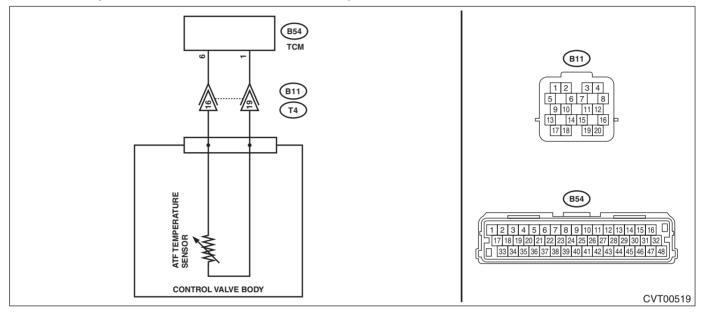
DTC DETECTING CONDITION:

- · Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-13, DTC P0713 TRANSMISSION FLUID TEMPERATURE SENSOR CIRCUIT HIGH INPUT, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

- Excessive shift shock
- · Shift characteristics malfunction

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK HARNESS. 1) Turn the ignition switch to ON. 2) Measure the voltage between TCM connectors. Connector & terminal (B54) No. 6 (+) — (B54) No. 1 (-):	Is the voltage 5 V or more?	Repair the short circuit of harness.	Go to step 2.
2	CHECK HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM and transmission connectors. 3) Measure the resistance between TCM connector and transmission connectors. Connector & terminal (B54) No. 6 — (B11) No. 16: (B54) No. 1 — (B11) No. 19:	Is the resistance less than 1 Ω ?	Go to step 3.	Repair the open circuit of body harness.
3	CHECK ATF TEMPERATURE SENSOR. Measure the resistance between transmission connector terminals. Connector & terminal (T4) No. 16 — No. 19:	Is the resistance 1 $M\Omega$ or more?	Repair the open circuit of transmission harness.	Go to step 4.

	Step	Check	Yes	No
4	CHECK ATF TEMPERATURE SENSOR. 1) Connect the connectors to TCM and transmission. 2) Start the engine. 3) Warm up until the ATF temperature exceeds 50°C (122°F). 4) Turn the ignition switch to OFF. 5) Disconnect the transmission connector. 6) Measure the resistance between transmission connector terminals. Connector & terminal (T4) No. 16 — No. 19:	Is the resistance 730 — 1120 Ω ?	Go to step 5.	Go to step 7.
5	CHECK ATF TEMPERATURE SENSOR. Measure the resistance between transmission connector terminals. Connector & terminal (T4) No. 16 — No. 19:	Does the resistance value increase gradually while the ATF temperature decreases?	Go to step 6.	Replace the control valve body. <ref. body.="" control="" cvt(tr690)-112,="" to="" valve=""></ref.>
6	CHECK INPUT SIGNAL FOR TCM. 1) Connect the connector to transmission. 2) Turn the ignition switch to ON. (Do not start engine.) 3) Read the data of «ATF Temp.» using the Subaru Select Monitor.	Does the ATF temperature gradually decrease?	Check for poor contact of the ATF temperature sensor and transmission connector harness, and repair the defective part.	Go to step 7.
7	CHECK FOR POOR CONTACT.	Is there poor contact of ATF temperature sensor circuit?	Repair the poor contact.	Replace the TCM. <ref. to<br="">CVT(TR690)-126, Transmission Con- trol Module (TCM).></ref.>

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

J: DTC P0719 BRAKE SWITCH CIRCUIT LOW

DTC DETECTING CONDITION:

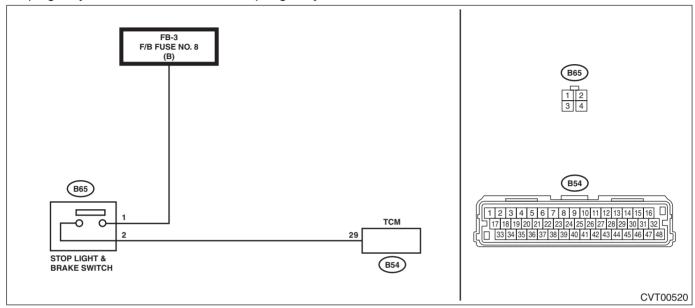
- Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-14, DTC P0719 BRAKE SWITCH CIRCUIT LOW, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

Gear is not shifted down when climbing a hill or driving down a hill.

WIRING DIAGRAM:

Stop light system <Ref. to WI-397, Stop Light System.>



	Step	Check	Yes	No
1	CHECK FUSE (NO. 8). 1) Turn the ignition switch to OFF. 2) Remove the fuse (No. 8).	Is the fuse (No. 8) blown out?	Replace the fuse (No. 8). If the new fuse (No. 8) has blown out easily, repair the short cir- cuit of harness between fuse (No. 8) and stop light switch.	Go to step 2.
2	CHECK HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM and stop light switch connector. 3) Measure the resistance between TCM connector and stop light switch connector. Connector & terminal (B54) No. 29 — (B65) No. 2:	Is the resistance less than 1 Ω ?	Go to step 3.	Repair the open circuit of harness.
3	CHECK HARNESS. Measure the resistance between TCM connector and fuse (No. 8). Connector & terminal (B65) No. 1 — fuse (No. 8):	Is the resistance less than 1 Ω ?	Go to step 4.	Repair the open circuit of harness.

	Step	Check	Yes	No
4	 CHECK INPUT SIGNAL FOR TCM. 1) Install the fuse (No. 8). 2) Connect the TCM and stop light switch connector. 3) Depress the brake pedal. 4) Measure the voltage between TCM connector and chassis ground. Connector & terminal (B54) No. 29 (+) — Chassis ground (-): 		Go to step 5.	Replace the stop light switch. <ref. to BR-77, Stop Light Switch.></ref.
5	CHECK INPUT SIGNAL FOR TCM. With brake pedal depressed, read the data of «Stop Light Switch» using Subaru Select Monitor.	Is "ON" displayed?	Current condition is normal. Check for poor contact in connectors or har- nesses, and repair the defective part.	Go to step 6.
6	CHECK FOR POOR CONTACT.	Is there poor contact of input signal of stop light switch?	Repair the poor contact.	Replace the TCM. <ref. to<br="">CVT(TR690)-126, Transmission Con- trol Module (TCM).></ref.>

K: DTC P0720 OUTPUT SPEED SENSOR CIRCUIT

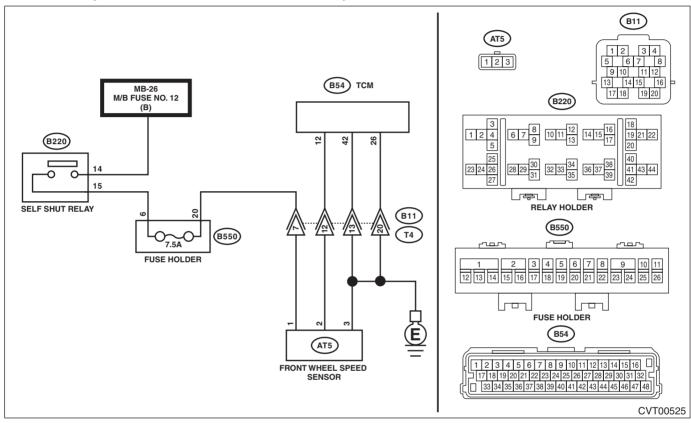
DTC DETECTING CONDITION:

- · Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-15, DTC P0720 OUTPUT SPEED SENSOR CIRCUIT, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

- Shock occurs when selecting shift position.
- Shift control malfunction

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK FUSE.1) Turn the ignition switch to OFF.2) Remove the fuse (7.5 A) from the fuse holder.	Is the fuse OK?	Go to step 2.	Replace the fuse. If the fuse blows out easily, repair the short circuit of har- ness.
2	CHECK HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM and transmission connectors. 3) Measure the resistance between TCM connector and transmission connectors. Connector & terminal (B54) No. 12 — (B11) No. 12: (B54) No. 26 — (B11) No. 20: (B54) No. 42 — (B11) No. 13: (B550) No. 20 — (B11) No. 7:	Is the resistance less than 1 Ω ?	Go to step 3.	Repair the open circuit of harness.

	Step	Check	Yes	No
3	CHECK HARNESS. Measure the resistance between TCM connector and chassis ground. Connector & terminal (B54) No. 12 — Chassis ground:	Is the resistance 1 $M\Omega$ or more?	Go to step 4.	Repair the short circuit of harness.
4	CHECK TRANSMISSION HARNESS. 1) Install the fuse. 2) Connect the TCM connector. 3) Turn the ignition switch to ON. 4) Measure the voltage between transmission connector terminals. Connector & terminal (B11) No. 7 (+) — Chassis ground (-):	Is the voltage approx. 10 — 13 V?	Go to step 5.	Repair the poor contact of harness or connector.
5	CHECK INPUT SIGNAL FOR TCM. 1) Turn the ignition switch to OFF. 2) Connect the transmission connector. 3) Lift up the vehicle. 4) Start the engine. 5) Slowly increase the speed to 30 km/h (19 MPH). 6) Read the data of «Front Wheel Speed» using Subaru Select Monitor.	Does the value of «Front Wheel Speed» change according to the engine speed?	Current condition is normal. Repair the poor contacts of harnesses of front wheel speed sensor and trans- mission connector.	Go to step 6.
6	CHECK TRANSMISSION HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the transmission connector. 3) Lift up the vehicle. 4) Disconnect the front wheel speed sensor connector. 5) Measure the resistance between transmission connector and front wheel speed sensor connector. Connector & terminal (T4) No. 7 — (AT5) No. 1: (T4) No. 12 — (AT5) No. 2: (T4) No. 13 — (AT5) No. 3: (T4) No. 20 — (AT5) No. 3:	Is the resistance less than 1 Ω ?	Replace the front wheel speed sen- sor. <ref. to<br="">CVT(TR690)-105, Front Wheel Speed Sensor.></ref.>	Replace the transmission harness.

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

L: DTC P0721 OUTPUT SHAFT SPEED SENSOR CIRCUIT RANGE/PERFOR-MANCE

DTC DETECTING CONDITION:

- Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-16, DTC P0721 OUTPUT SHAFT SPEED SENSOR CIRCUIT RANGE/PERFORMANCE, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

- · Acceleration is poor during standing start.
- No lock-up occurs.
- The engine stalls when the vehicle is stopped.
- Shift control malfunction

	Step	Check	Yes	No
1	CHECK DTC. Read the DTC using Subaru Select Monitor.	Besides DTC P0721, is DTC P1706 or P0500 displayed?	nosis according to DTCs other than P0721.	Perform the diagnosis according to DTC P0720. <ref. (dtc).="" circuit,="" code="" cvt(diag)-48,="" diagnostic="" dtc="" out-put="" p0720="" procedure="" sensor="" speed="" to="" trouble="" with=""></ref.>

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

M: DTC P0724 BRAKE SWITCH CIRCUIT HIGH

DTC DETECTING CONDITION:

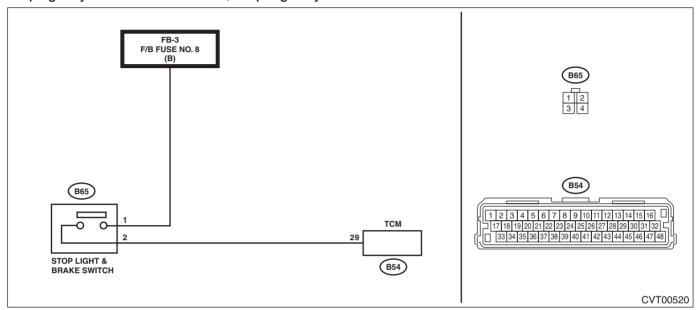
- · Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-17, DTC P0724 BRAKE SWITCH CIRCUIT HIGH, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

Gear is not shifted down when climbing a hill or driving down a hill.

WIRING DIAGRAM:

Stop light system < Ref. to WI-397, Stop Light System.>



	Step	Check	Yes	No
1	CHECK STOP LIGHT SWITCH. 1) Turn the ignition switch to OFF. 2) Disconnect the stop light switch connector. 3) Measure the resistance between stop light switch connectors. Connector & terminal (B65) No. 1 — No. 2:	Is the resistance 1 $M\Omega$ or more?	Go to step 2.	Replace the stop light switch. <ref. to BR-77, Stop Light Switch.></ref.
2	CHECK HARNESS. 1) Disconnect the TCM connector. 2) Turn the ignition switch to ON. 3) Measure the voltage between TCM connector and chassis ground. Connector & terminal (B54) No. 29 (+) — Chassis ground (-):	Is the voltage 10 V or more?	Repair the short circuit of harness.	Go to step 3.
3	CHECK INPUT SIGNAL FOR TCM. 1) Connect the TCM and stop light switch connector. 2) Turn the ignition switch to ON. 3) Read the data of «Stop Light Switch» using Subaru Select Monitor.	Is "OFF" displayed?	Current condition is normal. Check for poor contact in connectors or har- nesses, and repair the defective part.	Go to step 4.
4	CHECK FOR POOR CONTACT.	Is there poor contact of input signal of stop light switch?	Repair the poor contact.	Replace the TCM. <ref. to<br="">CVT(TR690)-126, Transmission Con- trol Module (TCM).></ref.>

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

N: DTC P0730 GEARSHIFT CONTROL PERFORMANCE ABNORMAL

DTC DETECTING CONDITION:

- Immediately at fault recognition
- GENERAL DESCRIPTION < Ref. to GD(CVT)-18, DTC P0730 GEARSHIFT CONTROL PERFORMANCE ABNORMAL, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

- · Acceleration is poor during standing start.
- Shift control malfunction
- Engine speed increases abruptly.

	Step	Check	Yes	No
1	CHECK TRANSMISSION FLUID. Check the amount of ATF. <ref. adjustment,="" cvt(tr690)-36,="" cvtf.="" to=""></ref.>	Is the ATF amount correct?	Go to step 2.	Adjust the amount of ATF. <ref. to<br="">CVT(TR690)-36, ADJUSTMENT, CVTF.></ref.>
2	CHECK TRANSMISSION FLUID. Check the condition of ATF. <ref. check,="" condition="" cvt(tr690)-40,="" cvtf.="" to=""></ref.>	Is the ATF OK?	Go to step 3.	Check according to the "Corrective action" of ATF (CVTF) "CONDI- TION CHECK". <ref. to<br="">CVT(TR690)-40, CONDITION CHECK, CVTF.></ref.>
3	CHECK INPUT SIGNAL FOR TCM. 1) Lift up the vehicle. 2) Start the engine. 3) Warm up until the ATF temperature reaches to 40 — 70°C (104 — 158°F). 4) Shift the select lever to "P" range. 5) Stabilize the engine speed at idle. 6) Read the data of «Actual secondary pressure» using Subaru Select Monitor.	Is the «Actual secondary pressure» 0.5 — 1.5 MPa?	Go to step 4.	Perform the diagnosis according to DTC P0841. <ref. (dtc).="" code="" cvt(diag)-68,="" diagnostic="" dtc="" oil="" p0841="" performance,="" pressure="" procedure="" secondary="" sensor="" to="" trouble="" with=""></ref.>
4	CHECK INPUT SIGNAL FOR TCM. 1) Set the select lever to "D" range. 2) Release the brake pedal to stabilize the engine speed and front wheel speed. 3) Read the data of «Actual Gear Ratio» using Subaru Select Monitor.	Is the «Actual Gear Ratio» 2.0 — 2.4?	Go to step 5.	Go to step 6.
5	CHECK INPUT SIGNAL FOR TCM. 1) Set the select lever to "D" range. 2) Slowly increase the speed to 40 km/h (25 MPH) and keep the constant speed. 3) Read the data of «Actual Gear Ratio» using Subaru Select Monitor.	Is the «Actual Gear Ratio» 0.5 — 0.8?	Go to step 6.	Replace the trans- mission assembly. <ref. to<br="">CVT(TR690)-56, Automatic Trans- mission Assem- bly.></ref.>

Step	Check	Yes	No
6 DRIVING CHECK BY INSPECTION MODE. 1) Turn the ignition switch to OFF. 2) Perform a drive check based on the "Inspection Mode". <ref. cvt(diag)-18,="" inspection="" mode.="" to=""></ref.>	Does the AT OIL TEMP light blink and is DTC P0730 dis- played?	mission assembly. <ref. th="" to<=""><th>If there is shift problems, abrupt increase of engine speed, standing start problems, replace the transmission assembly. <ref. assembly.="" automatic="" cvt(tr690)-56,="" to="" transmission=""> If it is normal, temporary poor contact occurs.</ref.></th></ref.>	If there is shift problems, abrupt increase of engine speed, standing start problems, replace the transmission assembly. <ref. assembly.="" automatic="" cvt(tr690)-56,="" to="" transmission=""> If it is normal, temporary poor contact occurs.</ref.>

O: DTC P0746 PRESSURE CONTROL SOLENOID "A" PERFORMANCE/STUCK OFF

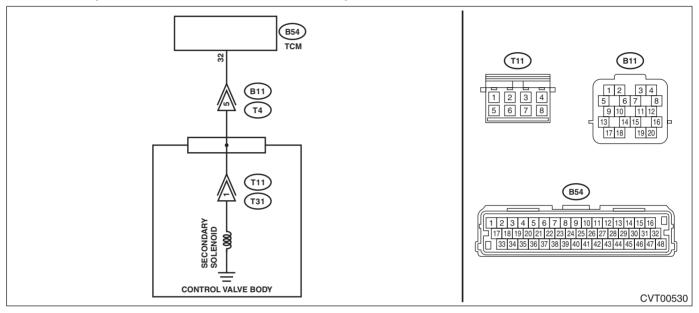
DTC DETECTING CONDITION:

- Detected when two consecutive driving cycles with fault occur.
- GENERAL DESCRIPTION <Ref. to GD(CVT)-19, DTC P0746 PRESSURE CONTROL SOLENOID "A" PERFORMANCE/STUCK OFF, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

- Shift control malfunction
- CVT chain slippage

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK DTC. Read the DTC using Subaru Select Monitor.	Besides DTC P0746, is any of the DTCs P0842, P0843, P0962 and P0963 displayed?	Perform the diagnosis according to DTCs other than P0746.	Go to step 2.
2	CHECK SECONDARY SOLENOID (SYSTEM OPERATION CHECK MODE). 1) Turn the ignition switch to ON. 2) Using the Subaru Select Monitor, perform forced operation of the secondary solenoid. <ref. check="" cvt(diag)-22,="" mode.="" operation="" system="" to=""></ref.>	Does the indication of 0 → 500 mA appear repeatedly during forced operation, and does operating sound emit during indicating 500 mA?	Go to step 5.	Go to step 3.
3	CHECK SECONDARY SOLENOID. 1) Turn the ignition switch to OFF. 2) Disconnect the transmission connector. 3) Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 5 — Transmission body:	Is the resistance approx. 5 — 7 Ω ? (when cold)	Go to step 7.	Go to step 4.
4	CHECK HARNESS. Check the continuity of transmission harness.	Is the harness normal? (Is it free from defects such as open circuit, power supply-output short or GND-output short cir- cuit, or poor contact?)	Go to step 7.	Repair the harness.

	Step	Check	Yes	No
5	CHECK TRANSMISSION FLUID. 1) Connect the transmission connector. 2) Check the amount of ATF. <ref. adjustment,="" cvt(tr690)-36,="" cvtf.="" to=""></ref.>	Is the ATF amount correct?	Go to step 6.	Adjust the amount of ATF. <ref. to<br="">CVT(TR690)-36, ADJUSTMENT, CVTF.></ref.>
6	CHECK TRANSMISSION FLUID. Check the condition of ATF. <ref. check,="" condition="" cvt(tr690)-40,="" cvtf.="" to=""></ref.>	Is the ATF OK?	Go to step 7.	Check according to the "Corrective action" of ATF (CVTF) "CONDI- TION CHECK". <ref. to<br="">CVT(TR690)-40, CONDITION CHECK, CVTF.></ref.>
7	CHECK INPUT SIGNAL FOR TCM. 1) Lift up the vehicle. 2) Start the engine. 3) Warm up until the ATF temperature reaches to 40 — 70°C (104 — 158°F). 4) Shift the select lever to "P" range. 5) Stabilize the engine speed at idle. 6) Read the data of «Actual secondary pressure» using Subaru Select Monitor.	Is the «Actual secondary pressure» 0.5 — 1.5 MPa?	Go to step 8.	Replace the control valve body. <ref. body.="" control="" cvt(tr690)-112,="" to="" valve=""></ref.>
8	 CHECK INPUT SIGNAL FOR TCM. 1) Keep the engine speed at 3,000 rpm. 2) Read the data of «Actual secondary pressure» using Subaru Select Monitor. 	Is the «Actual secondary pres- sure» higher than step 7 value? Does the value change accord- ing to the engine speed, within the range of 1.5 — 2.5 MPa?	Go to step 9.	Replace the control valve body. <ref. body.="" control="" cvt(tr690)-112,="" to="" valve=""></ref.>
9	 CHECK TCM INPUT SIGNAL (STALL TEST). Apply the parking brake. Set the select lever to "D" range. Depress the brake pedal firmly. Slowly open the accelerator fully, and stabilize the engine speed. Read the data of "Actual secondary pressure" using Subaru Select Monitor. CAUTION: Do not perform a stall test for over 5 seconds at a time. 	Is the «Actual secondary pressure» higher than step 8 value? Does the value change according to the engine speed, within the range of 4.5 — 6.0 MPa?	Go to step 10.	Replace the control valve body. <ref. body.="" control="" cvt(tr690)-112,="" to="" valve=""></ref.>
10	DRIVING CHECK BY INSPECTION MODE. 1) Turn the ignition switch to OFF. 2) Perform a drive check based on the "Inspection Mode". <ref. cvt(diag)-18,="" inspection="" mode.="" to=""></ref.>	Does the AT OIL TEMP light blink and is DTC P0746 dis- played?	Perform the sec- ondary pressure test. <ref. to<br="">CVT(TR690)-49, Secondary Pres- sure (Line Pres- sure) Test.></ref.>	If there is shift problems, abrupt increase of engine speed, standing start problems, replace the transmission assembly. <ref. assembly.="" automatic="" cvt(tr690)-56,="" to="" transmission=""> If it is normal, temporary poor contact occurs.</ref.>

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

P: DTC P0747 PRESSURE CONTROL SOLENOID "A" STUCK ON

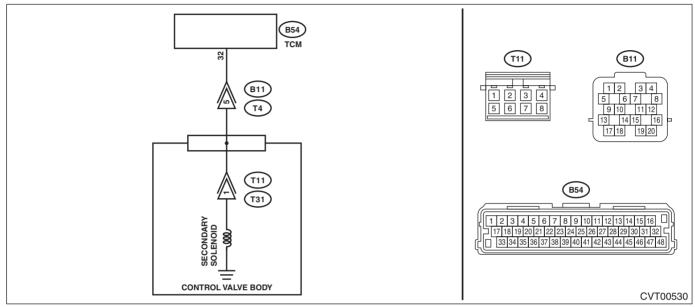
DTC DETECTING CONDITION:

- Detected when two consecutive driving cycles with fault occur.
- GENERAL DESCRIPTION <Ref. to GD(CVT)-22, DTC P0747 PRESSURE CONTROL SOLENOID "A" STUCK ON, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

- · Acceleration is poor during standing start.
- Shift control malfunction

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK DTC. Read the DTC using Subaru Select Monitor.	Besides DTC P0747, is any of the DTCs P0842, P0843, P0962 and P0963 displayed?	Perform the diagnosis according to DTCs other than P0747.	Go to step 2.
2	CHECK SECONDARY SOLENOID (SYSTEM OPERATION CHECK MODE). 1) Turn the ignition switch to ON. 2) Using the Subaru Select Monitor, perform forced operation of the secondary solenoid. <ref. check="" cvt(diag)-22,="" mode.="" operation="" system="" to=""></ref.>	Does the indication of 0 → 500 mA appear repeatedly during forced operation, and does operating sound emit during indicating 500 mA?	Go to step 5.	Go to step 3.
3	CHECK SECONDARY SOLENOID. 1) Turn the ignition switch to OFF. 2) Disconnect the transmission connector. 3) Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 5 — Transmission body:	Is the resistance approx. 5 — 7 Ω ? (when cold)	Go to step 7.	Go to step 4.
4	CHECK HARNESS. Check the continuity of transmission harness.	Is the harness normal? (Is it free from defects such as open circuit, power supply-output short or GND-output short cir- cuit, or poor contact?)	Go to step 7.	Repair the harness.

	Step	Check	Yes	No
5	CHECK TRANSMISSION FLUID. 1) Connect the transmission connector. 2) Check the amount of ATF. <ref. adjustment,="" cvt(tr690)-36,="" cvtf.="" to=""></ref.>	Is the ATF amount correct?	Go to step 6.	Adjust the amount of ATF. <ref. to<br="">CVT(TR690)-36, ADJUSTMENT, CVTF.></ref.>
6	CHECK TRANSMISSION FLUID. Check the condition of ATF. <ref. check,="" condition="" cvt(tr690)-40,="" cvtf.="" to=""></ref.>	Is the ATF OK?	Go to step 7.	Check according to the "Corrective action" of ATF (CVTF) "CONDI- TION CHECK". <ref. to<br="">CVT(TR690)-40, CONDITION CHECK, CVTF.></ref.>
7	CHECK INPUT SIGNAL FOR TCM. 1) Lift up the vehicle. 2) Start the engine. 3) Warm up until the ATF temperature reaches to 40 — 70°C (104 — 158°F). 4) Shift the select lever to "P" range. 5) Stabilize the engine speed at idle. 6) Read the data of «Actual secondary pressure» using Subaru Select Monitor.	Is the «Actual secondary pressure» 0.5 — 1.5 MPa?	Go to step 8.	Replace the control valve body. <ref. body.="" control="" cvt(tr690)-112,="" to="" valve=""></ref.>
8	CHECK INPUT SIGNAL FOR TCM. 1) Keep the engine speed at 3,000 rpm. 2) Read the data of «Actual secondary pressure» using Subaru Select Monitor.	Is the «Actual secondary pressure» higher than step 7 value? Does the value change according to the engine speed, within the range of 1.5 — 2.5 MPa?	Go to step 9.	Replace the control valve body. <ref. body.="" control="" cvt(tr690)-112,="" to="" valve=""></ref.>
9	CHECK TCM INPUT SIGNAL (STALL TEST). 1) Apply the parking brake. 2) Set the select lever to "D" range. 3) Depress the brake pedal firmly. 4) Slowly open the accelerator fully, and stabilize the engine speed. 5) Read the data of «Actual secondary pressure» using Subaru Select Monitor. CAUTION: Do not perform a stall test for over 5 seconds at a time.	Is the «Actual secondary pressure» higher than step 8 value? Does the value change according to the engine speed, within the range of 4.5 — 6.0 MPa?	Go to step 10.	Replace the control valve body. <ref. body.="" control="" cvt(tr690)-112,="" to="" valve=""></ref.>
10	DRIVING CHECK BY INSPECTION MODE. 1) Turn the ignition switch to OFF. 2) Perform a drive check based on the "Inspection Mode". <ref. cvt(diag)-18,="" inspection="" mode.="" to=""></ref.>	Does the AT OIL TEMP light blink and is DTC P0747 dis- played?	Perform the sec- ondary pressure test. <ref. to<br="">CVT(TR690)-49, Secondary Pres- sure (Line Pres- sure) Test.></ref.>	If there is shift problems, abrupt increase of engine speed, standing start problems, replace the transmission assembly. <ref. assembly.="" automatic="" cvt(tr690)-56,="" to="" transmission=""> If it is normal, temporary poor contact occurs.</ref.>

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

Q: DTC P0751 SHIFT SOLENOID "A" PERFORMANCE/STUCK OFF

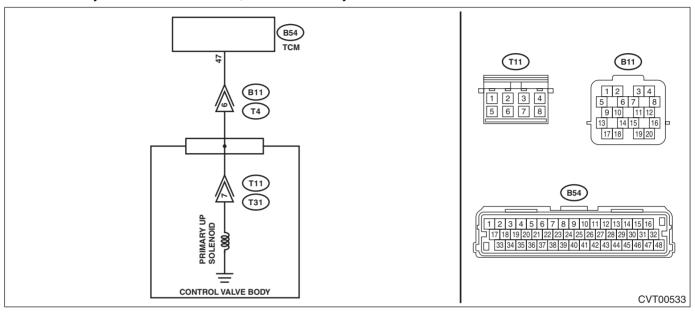
DTC DETECTING CONDITION:

- Detected when two consecutive driving cycles with fault occur.
- GENERAL DESCRIPTION <Ref. to GD(CVT)-25, DTC P0751 SHIFT SOLENOID "A" PERFORMANCE/STUCK OFF, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

- Shift control malfunction
- Engine speed increases abruptly.

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK DTC. Read the DTC using Subaru Select Monitor.	Besides DTC P0751, is any of the DTCs P0973, P0974, P0976, P0977, P2747 and P2751 displayed?	Perform the diagnosis according to DTCs other than P0751.	Go to step 2.
2	CHECK PRIMARY UP SOLENOID (SYSTEM OPERATION CHECK MODE). 1) Turn the ignition switch to ON. 2) Using the Subaru Select Monitor, perform forced operation of the primary UP solenoid. <ref. check="" cvt(diag)-22,="" mode.="" operation="" system="" to=""></ref.>	Does the indication of 0 → 50% appear repeatedly during forced operation, and does operating sound emit during indicating 50%?	Go to step 5.	Go to step 3.
3	CHECK PRIMARY UP SOLENOID. 1) Turn the ignition switch to OFF. 2) Disconnect the transmission connector. 3) Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 6 — Transmission body:	Is the resistance approx. 10 — 13.5 Ω ? (when cold)	Go to step 7.	Go to step 4.
4	CHECK HARNESS. Check the continuity of transmission harness.	Is the harness normal? (Is it free from defects such as open circuit, power supply-output short or GND-output short cir- cuit, or poor contact?)	Go to step 7.	Repair the harness.

	Step	Check	Yes	No
5	CHECK TRANSMISSION FLUID. 1) Connect the transmission connector. 2) Check the amount of ATF. <ref. adjustment,="" cvt(tr690)-36,="" cvtf.="" to=""></ref.>	Is the ATF amount correct?	Go to step 6.	Adjust the amount of ATF. <ref. to<br="">CVT(TR690)-36, ADJUSTMENT, CVTF.></ref.>
6	CHECK TRANSMISSION FLUID. Check the condition of ATF. <ref. check,="" condition="" cvt(tr690)-40,="" cvtf.="" to=""></ref.>	Is the ATF OK?	Go to step 7.	Check according to the "Corrective action" of ATF (CVTF) "CONDI- TION CHECK". <ref. to<br="">CVT(TR690)-40, CONDITION CHECK, CVTF.></ref.>
7	CHECK INPUT SIGNAL FOR TCM. 1) Lift up the vehicle. 2) Start the engine. 3) Warm up until the ATF temperature reaches to 40 — 70°C (104 — 158°F). 4) Shift the select lever to "P" range. 5) Stabilize the engine speed at idle. 6) Read the data of «Actual secondary pressure» using Subaru Select Monitor.	Is the «Actual secondary pressure» 0.5 — 1.5 MPa?	Go to step 8.	Replace the transmission assembly. <ref. assembly.="" automatic="" cvt(tr690)-56,="" to="" transmission=""></ref.>
8	CHECK INPUT SIGNAL FOR TCM. 1) Set the select lever to "D" range. 2) Release the brake pedal to stabilize the engine speed and front wheel speed. 3) Read the data of «Actual Gear Ratio» using Subaru Select Monitor. NOTE: Before operation, set SI-DRIVE to I mode.	Is the «Actual Gear Ratio» 2.0 — 2.4?	Go to step 9.	Replace the transmission assembly. <ref. assembly.="" automatic="" cvt(tr690)-56,="" to="" transmission=""></ref.>
9	CHECK INPUT SIGNAL FOR TCM. 1) Set the select lever to "D" range. 2) Slowly increase the speed to 40 km/h (25 MPH) and keep the constant speed. 3) Read the data of «Actual Gear Ratio» using Subaru Select Monitor. NOTE: Before operation, set SI-DRIVE to I mode.	Is the «Actual Gear Ratio» 0.5 — 0.8?	Go to step 10.	Replace the trans- mission assembly. <ref. to<br="">CVT(TR690)-56, Automatic Trans- mission Assem- bly.></ref.>
10	DRIVING CHECK BY INSPECTION MODE. 1) Turn the ignition switch to OFF. 2) Perform a drive check based on the "Inspection Mode". <ref. cvt(diag)-18,="" inspection="" mode.="" to=""></ref.>	Does the AT OIL TEMP light blink and is DTC P0751 dis- played?	Replace the transmission assembly. <ref. assembly.="" automatic="" cvt(tr690)-56,="" to="" transmission=""></ref.>	If there is shift problems, abrupt increase of engine speed, standing start problems, replace the transmission assembly. <ref. assembly.="" automatic="" cvt(tr690)-56,="" to="" transmission=""> If it is normal, temporary poor contact occurs.</ref.>

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

R: DTC P0752 SHIFT SOLENOID "A" STUCK ON

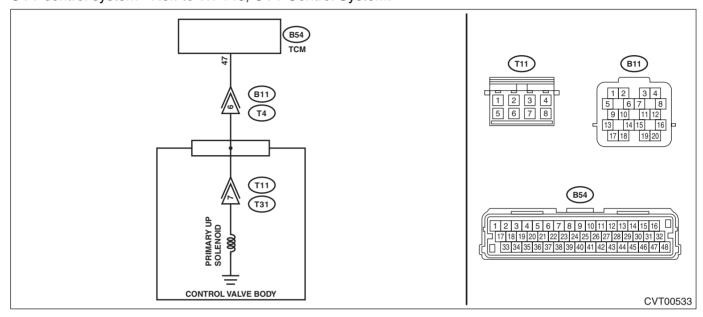
DTC DETECTING CONDITION:

- Detected when two consecutive driving cycles with fault occur.
- GENERAL DESCRIPTION <Ref. to GD(CVT)-26, DTC P0752 SHIFT SOLENOID "A" STUCK ON, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

- · Acceleration is poor during standing start.
- Shift control malfunction

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK DTC. Read the DTC using Subaru Select Monitor.	Besides DTC P0752, is any of the DTCs P0973, P0974, P0976, P0977, P2747 and P2751 displayed?	Perform the diagnosis according to DTCs other than P0752.	Go to step 2.
2	CHECK PRIMARY UP SOLENOID (SYSTEM OPERATION CHECK MODE). 1) Turn the ignition switch to ON. 2) Using the Subaru Select Monitor, perform forced operation of the primary UP solenoid. <ref. check="" cvt(diag)-22,="" mode.="" operation="" system="" to=""></ref.>	Does the indication of $0 \rightarrow 50\%$ appear repeatedly during forced operation, and does operating sound emit during indicating 50%?	Go to step 5.	Go to step 3.
3	CHECK PRIMARY UP SOLENOID. 1) Turn the ignition switch to OFF. 2) Disconnect the transmission connector. 3) Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 6 — Transmission body:	Is the resistance approx. 10 — 13.5 Ω ? (when cold)	Go to step 7.	Go to step 4.
4	CHECK HARNESS. Check the continuity of transmission harness.	Is the harness normal? (Is it free from defects such as open circuit, power supply-output short or GND-output short cir- cuit, or poor contact?)	Go to step 7.	Repair the harness.

	Step	Check	Yes	No
5	CHECK TRANSMISSION FLUID. 1) Connect the transmission connector. 2) Check the amount of ATF. <ref. adjustment,="" cvt(tr690)-36,="" cvtf.="" to=""></ref.>	Is the ATF amount correct?	Go to step 6.	Adjust the amount of ATF. <ref. to<br="">CVT(TR690)-36, ADJUSTMENT, CVTF.></ref.>
6	CHECK TRANSMISSION FLUID. Check the condition of ATF. <ref. check,="" condition="" cvt(tr690)-40,="" cvtf.="" to=""></ref.>	Is the ATF OK?	Go to step 7.	Check according to the "Corrective action" of ATF (CVTF) "CONDI- TION CHECK". <ref. to<br="">CVT(TR690)-40, CONDITION CHECK, CVTF.></ref.>
7	CHECK INPUT SIGNAL FOR TCM. 1) Lift up the vehicle. 2) Start the engine. 3) Warm up until the ATF temperature reaches to $40 - 70^{\circ}\text{C}$ ($104 - 158^{\circ}\text{F}$). 4) Shift the select lever to "P" range. 5) Stabilize the engine speed at idle. 6) Read the data of "Actual secondary pressure" using Subaru Select Monitor.	Is the «Actual secondary pressure» 0.5 — 1.5 MPa?	Go to step 8.	Replace the trans- mission assembly. <ref. to<br="">CVT(TR690)-56, Automatic Trans- mission Assem- bly.></ref.>
8	CHECK INPUT SIGNAL FOR TCM. 1) Set the select lever to "D" range. 2) Release the brake pedal to stabilize the engine speed and front wheel speed. 3) Read the data of «Actual Gear Ratio» using Subaru Select Monitor. NOTE: Before operation, set SI-DRIVE to I mode.	Is the «Actual Gear Ratio» 2.0 — 2.4?	Go to step 9.	Replace the transmission assembly. <ref. assembly.="" automatic="" cvt(tr690)-56,="" to="" transmission=""></ref.>
9	CHECK INPUT SIGNAL FOR TCM. 1) Set the select lever to "D" range. 2) Slowly increase the speed to 40 km/h (25 MPH) and keep the constant speed. 3) Read the data of «Actual Gear Ratio» using Subaru Select Monitor. NOTE: Before operation, set SI-DRIVE to I mode.	Is the «Actual Gear Ratio» 0.5 — 0.8?	Go to step 10.	Replace the trans- mission assembly. <ref. to<br="">CVT(TR690)-56, Automatic Trans- mission Assem- bly.></ref.>
10	DRIVING CHECK BY INSPECTION MODE. 1) Turn the ignition switch to OFF. 2) Perform a drive check based on the "Inspection Mode". <ref. cvt(diag)-18,="" inspection="" mode.="" to=""></ref.>	Does the AT OIL TEMP light blink and is DTC P0752 dis- played?	Replace the transmission assembly. <ref. assembly.="" automatic="" cvt(tr690)-56,="" to="" transmission=""></ref.>	If there is shift problems, abrupt increase of engine speed, standing start problems, replace the transmission assembly. <ref. assembly.="" automatic="" cvt(tr690)-56,="" to="" transmission=""> If it is normal, temporary poor contact occurs.</ref.>

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

S: DTC P0756 SHIFT SOLENOID "B" PERFORMANCE/STUCK OFF

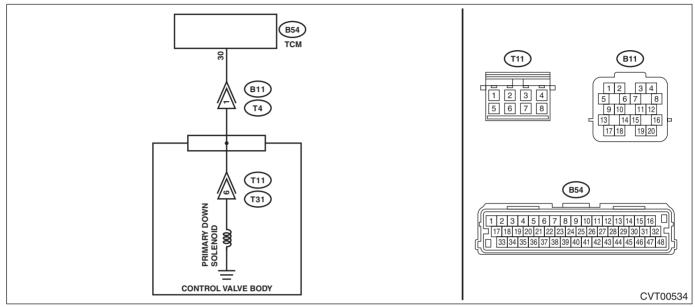
DTC DETECTING CONDITION:

- Detected when two consecutive driving cycles with fault occur.
- GENERAL DESCRIPTION <Ref. to GD(CVT)-27, DTC P0756 SHIFT SOLENOID "B" PERFORMANCE/ STUCK OFF, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

- · Acceleration is poor during standing start.
- Shift control malfunction

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK DTC. Read the DTC using Subaru Select Monitor.	Besides DTC P0756, is any of the DTCs P0973, P0974, P0976, P0977, P2747 and P2751 displayed?	Perform the diagnosis according to DTCs other than P0756.	Go to step 2.
2	CHECK PRIMARY DOWN SOLENOID (SYSTEM OPERATION CHECK MODE). 1) Turn the ignition switch to ON. 2) Using the Subaru Select Monitor, perform forced operation of the primary DOWN solenoid. <ref. check="" cvt(diag)-22,="" mode.="" operation="" system="" to=""></ref.>	Does the indication of $0 \rightarrow 50\%$ appear repeatedly during forced operation, and does operating sound emit during indicating 50%?	Go to step 5.	Go to step 3.
3	 CHECK PRIMARY DOWN SOLENOID. 1) Turn the ignition switch to OFF. 2) Disconnect the transmission connector. 3) Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 1 — Transmission body: 	Is the resistance approx. 10 — 13.5 Ω ? (when cold)	Go to step 7.	Go to step 4.
4	CHECK HARNESS. Check the continuity of transmission harness.	Is the harness normal? (Is it free from defects such as open circuit, power supply-output short or GND-output short cir- cuit, or poor contact?)	Go to step 7.	Repair the harness.

	Step	Check	Yes	No
5	CHECK TRANSMISSION FLUID.	Is the ATF amount correct?	Go to step 6.	Adjust the amount
١	Connect the transmission connector.	is the ATT amount correct:	αο το στερ σ .	of ATF. <ref. th="" to<=""></ref.>
	2) Check the amount of ATF. <ref. th="" to<=""><th></th><th></th><th>CVT(TR690)-36,</th></ref.>			CVT(TR690)-36,
	CVT(TR690)-36, ADJUSTMENT, CVTF.>			ADJUSTMENT,
			_	CVTF.>
6	CHECK TRANSMISSION FLUID. Check the condition of ATF. <ref. th="" to<=""><th>Is the ATF OK?</th><th>Go to step 7.</th><th>Check according to the "Corrective</th></ref.>	Is the ATF OK?	Go to step 7.	Check according to the "Corrective
	CVT(TR690)-40, CONDITION CHECK, CVTF.>			action" of ATF
	3 (111000) 10, 3 3 11 3 11 3 11 3 11 3 11 3 11 3 1			(CVTF) "CONDI-
				TION CHECK".
				<ref. th="" to<=""></ref.>
				CVT(TR690)-40, CONDITION
				CHECK, CVTF.>
7	CHECK INPUT SIGNAL FOR TCM.	Is the «Actual secondary pres-	Go to step 8.	Replace the trans-
	1) Lift up the vehicle.	sure» 0.5 — 1.5 MPa?		mission assembly.
	2) Start the engine.			<ref. th="" to<=""></ref.>
	3) Warm up until the ATF temperature reaches			CVT(TR690)-56,
	to 40 — 70°C (104 — 158°F). 4) Shift the select lever to "P" range.			Automatic Trans- mission Assem-
	5) Stabilize the engine speed at idle.			bly.>
	6) Read the data of «Actual secondary pres-			
	sure» using Subaru Select Monitor.			
8	CHECK INPUT SIGNAL FOR TCM.	Is the «Actual Gear Ratio» 2.0	Go to step 9.	Replace the trans-
	 Set the select lever to "D" range. Release the brake pedal to stabilize the 	— 2.4?		mission assembly. <ref. th="" to<=""></ref.>
	engine speed and front wheel speed.			CVT(TR690)-56,
	3) Read the data of «Actual Gear Ratio» using			Automatic Trans-
	Subaru Select Monitor.			mission Assem-
	NOTE:			bly.>
	Before operation, set SI-DRIVE to I mode.		0 1 1 10	D
9	CHECK INPUT SIGNAL FOR TCM. 1) Set the select lever to "D" range.	Is the «Actual Gear Ratio» 0.5 — 0.8?	Go to step 10.	Replace the trans- mission assembly.
	2) Slowly increase the speed to 40 km/h (25	- 0.0 :		<ref. th="" to<=""></ref.>
	MPH) and keep the constant speed.			CVT(TR690)-56,
	3) Read the data of «Actual Gear Ratio» using			Automatic Trans-
	Subaru Select Monitor.			mission Assem-
	NOTE: Before operation, set SI-DRIVE to I mode.			bly.>
10	DRIVING CHECK BY INSPECTION MODE.	Does the AT OIL TEMP light	Replace the trans-	If there is shift
	Turn the ignition switch to OFF.	blink and is DTC P0756 dis-	mission assembly.	problems, abrupt
	2) Perform a drive check based on the "Inspec-	played?	<ref. th="" to<=""><th>increase of engine</th></ref.>	increase of engine
	tion Mode". <ref. cvt(diag)-18,="" inspection<="" th="" to=""><th></th><th>CVT(TR690)-56,</th><th>speed, standing</th></ref.>		CVT(TR690)-56,	speed, standing
	Mode.>		Automatic Trans- mission Assem-	start problems, replace the trans-
			bly.>	mission assembly.
				<ref. th="" to<=""></ref.>
				CVT(TR690)-56,
				Automatic Trans-
				mission Assem- bly.> If it is normal,
				temporary poor
				contact occurs.

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

T: DTC P0757 SHIFT SOLENOID "B" STUCK ON

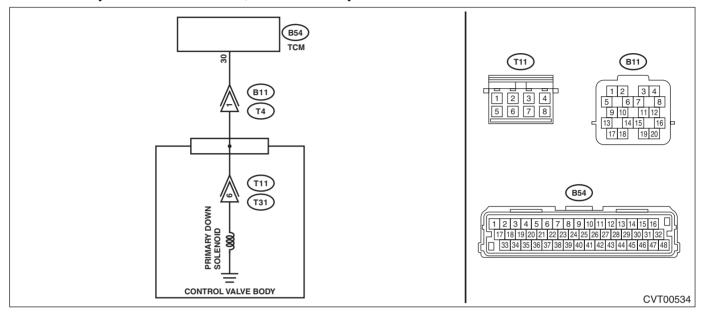
DTC DETECTING CONDITION:

- Detected when two consecutive driving cycles with fault occur.
- GENERAL DESCRIPTION <Ref. to GD(CVT)-28, DTC P0757 SHIFT SOLENOID "B" STUCK ON, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

- Vibration occurs at shift change.
- Shift control malfunction

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK DTC. Read the DTC using Subaru Select Monitor.	Besides DTC P0757, is any of the DTCs P0973, P0974, P0976, P0977, P2747 and P2751 displayed?	Perform the diagnosis according to DTCs other than P0757.	Go to step 2.
2	CHECK PRIMARY DOWN SOLENOID (SYSTEM OPERATION CHECK MODE). 1) Turn the ignition switch to ON. 2) Using the Subaru Select Monitor, perform forced operation of the primary DOWN solenoid. <ref. check="" cvt(diag)-22,="" mode.="" operation="" system="" to=""></ref.>	Does the indication of $0 \rightarrow 50\%$ appear repeatedly during forced operation, and does operating sound emit during indicating 50%?	Go to step 5.	Go to step 3.
3	CHECK PRIMARY DOWN SOLENOID. 1) Turn the ignition switch to OFF. 2) Disconnect the transmission connector. 3) Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 1 — Transmission body:	Is the resistance approx. 10 — 13.5 Ω ? (when cold)	Go to step 7.	Go to step 4.
4	CHECK HARNESS. Check the continuity of transmission harness.	Is the harness normal? (Is it free from defects such as open circuit, power supply-output short or GND-output short cir- cuit, or poor contact?)	Go to step 7.	Repair the harness.

	Step	Check	Yes	No
5	CHECK TRANSMISSION FLUID. 1) Connect the transmission connector. 2) Check the amount of ATF. <ref. adjustment,="" cvt(tr690)-36,="" cvtf.="" to=""></ref.>	Is the ATF amount correct?	Go to step 6.	Adjust the amount of ATF. <ref. to<br="">CVT(TR690)-36, ADJUSTMENT, CVTF.></ref.>
6	CHECK TRANSMISSION FLUID. Check the condition of ATF. <ref. check,="" condition="" cvt(tr690)-40,="" cvtf.="" to=""></ref.>	Is the ATF OK?	Go to step 7.	Check according to the "Corrective action" of ATF (CVTF) "CONDI- TION CHECK". <ref. to<br="">CVT(TR690)-40, CONDITION CHECK, CVTF.></ref.>
7	CHECK INPUT SIGNAL FOR TCM. 1) Lift up the vehicle. 2) Start the engine. 3) Warm up until the ATF temperature reaches to 40 — 70°C (104 — 158°F). 4) Shift the select lever to "P" range. 5) Stabilize the engine speed at idle. 6) Read the data of «Actual secondary pressure» using Subaru Select Monitor.	Is the «Actual secondary pressure» 0.5 — 1.5 MPa?	Go to step 8.	Replace the transmission assembly. <ref. assembly.="" automatic="" cvt(tr690)-56,="" to="" transmission=""></ref.>
8	CHECK INPUT SIGNAL FOR TCM. 1) Set the select lever to "D" range. 2) Release the brake pedal to stabilize the engine speed and front wheel speed. 3) Read the data of «Actual Gear Ratio» using Subaru Select Monitor. NOTE: Before operation, set SI-DRIVE to I mode.	Is the «Actual Gear Ratio» 2.0 — 2.4?	Go to step 9.	Replace the transmission assembly. <ref. assembly.="" automatic="" cvt(tr690)-56,="" to="" transmission=""></ref.>
9	CHECK INPUT SIGNAL FOR TCM. 1) Set the select lever to "D" range. 2) Slowly increase the speed to 40 km/h (25 MPH) and keep the constant speed. 3) Read the data of «Actual Gear Ratio» using Subaru Select Monitor. NOTE: Before operation, set SI-DRIVE to I mode.	Is the «Actual Gear Ratio» 0.5 — 0.8?	Go to step 10.	Replace the trans- mission assembly. <ref. to<br="">CVT(TR690)-56, Automatic Trans- mission Assem- bly.></ref.>
10	DRIVING CHECK BY INSPECTION MODE. 1) Turn the ignition switch to OFF. 2) Perform a drive check based on the "Inspection Mode". <ref. cvt(diag)-18,="" inspection="" mode.="" to=""></ref.>	Does the AT OIL TEMP light blink and is DTC P0757 dis- played?	Replace the trans- mission assembly. <ref. to<br="">CVT(TR690)-56, Automatic Trans- mission Assem- bly.></ref.>	If there is shift problems, abrupt increase of engine speed, standing start problems, replace the transmission assembly. <ref. assembly.="" automatic="" cvt(tr690)-56,="" to="" transmission=""> If it is normal, temporary poor contact occurs.</ref.>

U: DTC P0776 PRESSURE CONTROL SOLENOID "B" PERFORMANCE/STUCK OFF

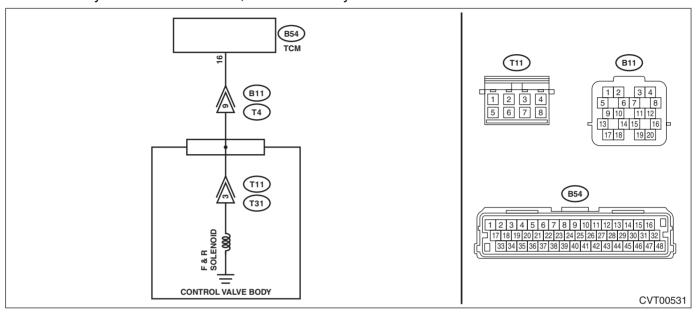
DTC DETECTING CONDITION:

- Detected when two consecutive driving cycles with fault occur.
- GENERAL DESCRIPTION <Ref. to GD(CVT)-29, DTC P0776 PRESSURE CONTROL SOLENOID "B" PERFORMANCE/STUCK OFF, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

- Engine speed increases abruptly, and can not accelerate.
- Excessive slippage is felt.

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK DTC. Read the DTC using Subaru Select Monitor.	Besides DTC P0776, is any of the DTCs P0720, P0966, P0967, P1706 and P2751 dis- played?	Perform the diagnosis according to DTCs other than P0776.	Go to step 2.
2	CHECK F&R SOLENOID (SYSTEM OPERATION CHECK MODE). 1) Turn the ignition switch to ON. 2) Using the Subaru Select Monitor, perform forced operation of the F&R solenoid. <ref. check="" cvt(diag)-22,="" mode.="" operation="" system="" to=""></ref.>	Does the indication of 0 → 500 mA appear repeatedly during forced operation, and does operating sound emit during indicating 500 mA?	Go to step 5.	Go to step 3.
3	CHECK F&R SOLENOID. 1) Turn the ignition switch to OFF. 2) Disconnect the transmission connector. 3) Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 9 — Transmission body:	Is the resistance approx. 4 — 6 Ω ? (when cold)	Go to step 7.	Go to step 4.
4	CHECK HARNESS. Check the continuity of transmission harness.	Is the harness normal? (Is it free from defects such as open circuit, power supply-output short or GND-output short cir- cuit, or poor contact?)	Go to step 7.	Repair the harness.

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

	Step	Check	Yes	No
5	CHECK TRANSMISSION FLUID. 1) Connect the transmission connector. 2) Check the amount of ATF. <ref. adjustment,="" cvt(tr690)-36,="" cvtf.="" to=""></ref.>	Is the ATF amount correct?	Go to step 6.	Adjust the amount of ATF. <ref. to<br="">CVT(TR690)-36, ADJUSTMENT, CVTF.></ref.>
6	CHECK TRANSMISSION FLUID. Check the condition of ATF. <ref. check,="" condition="" cvt(tr690)-40,="" cvtf.="" to=""></ref.>	Is the ATF OK?	Go to step 7.	Check according to the "Corrective action" of ATF (CVTF) "CONDI- TION CHECK". <ref. to<br="">CVT(TR690)-40, CONDITION CHECK, CVTF.></ref.>
7	CHECK INPUT SIGNAL FOR TCM. 1) Start the engine. 2) Warm up until the ATF temperature reaches to 40 — 70°C (104 — 158°F). 3) Shift the select lever to "P" range. 4) Stabilize the engine speed at idle. 5) Read the data of «Actual secondary pressure» using Subaru Select Monitor.	Is the «Actual secondary pressure» 0.5 — 1.5 MPa?	Go to step 8.	Perform the diagnosis according to DTC P0841. <ref. (dtc).="" code="" cvt(diag)-68,="" diagnostic="" dtc="" oil="" p0841="" performance,="" pressure="" procedure="" secondary="" sensor="" to="" trouble="" with=""></ref.>
8	STALL TEST. Perform the stall test. <ref. cvt(tr690)-47,="" stall="" test.="" to=""></ref.>	Is the stall test normal?	Go to step 9.	If the engine speed increases abruptly, replace the transmission assembly. <ref. assembly.="" automatic="" cvt(tr690)-56,="" to="" transmission=""></ref.>
9	DRIVING CHECK BY INSPECTION MODE. 1) Turn the ignition switch to OFF. 2) Perform a drive check based on the "Inspection Mode". <ref. cvt(diag)-18,="" inspection="" mode.="" to=""></ref.>	Does the AT OIL TEMP light blink and is DTC P0776 dis- played?	Replace the transmission assembly. <ref. assembly.="" automatic="" cvt(tr690)-56,="" to="" transmission=""></ref.>	If there is abrupt increase of engine speed, standing start problems, replace the transmission assembly. <ref. assembly.="" automatic="" cvt(tr690)-56,="" to="" transmission=""> If it is normal, temporary poor contact occurs.</ref.>

V: DTC P0801 REVERSE INHIBIT CONTROL CIRCUIT

DTC DETECTING CONDITION:

- · Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-30, DTC P0801 REVERSE INHIBIT CONTROL CIRCUIT, Diagnostic Trouble Code (DTC) Detecting Criteria.>

NOTE:

For diagnostic procedures, refer to "BODY CONTROL SYSTEM (DIAGNOSTICS)". <Ref. to BC(diag)-39, DTC B1016 SHIFT LOCK CIRCUIT FAILURE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

W: DTC P0841 SECONDARY OIL PRESSURE SENSOR PERFORMANCE

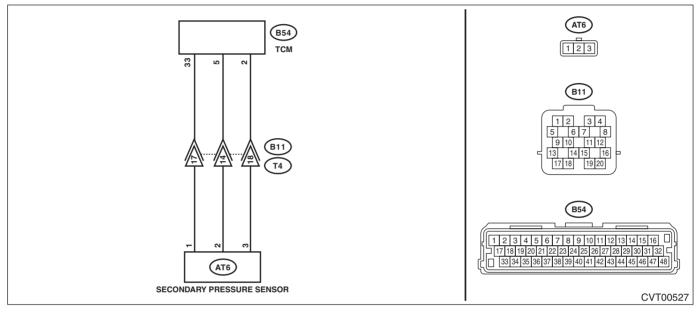
DTC DETECTING CONDITION:

- · Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-31, DTC P0841 SECONDARY OIL PRESSURE SENSOR PERFORMANCE, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

- · Acceleration is poor during standing start.
- Shift control malfunction
- Engine speed increases abruptly.

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK DTC. Read the DTC using Subaru Select Monitor.	Besides DTC P0841, is any of the DTCs P0842, P0843, P0962 and P0963 displayed?	Perform the diagnosis according to DTCs other than P0841.	Go to step 2.
2	CHECK HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM and transmission connectors. 3) Measure the resistance between TCM connector and transmission connectors. Connector & terminal (B54) No. 2 — (B11) No. 18: (B54) No. 5 — (B11) No. 14: (B54) No. 33 — (B11) No. 17:	Is the resistance less than 1 Ω ?	Go to step 3.	Repair the open circuit of harness.
3	CHECK HARNESS. Measure the resistance between TCM connector and chassis ground. Connector & terminal (B54) No. 5 — Chassis ground: (B54) No. 33 — Chassis ground:	Is the resistance 1 $M\Omega$ or more?	Go to step 4.	Repair the short circuit of harness.

	Step	Check	Yes	No
5	CHECK TRANSMISSION HARNESS. 1) Disconnect the secondary pressure sensor connector. 2) Measure the resistance between transmission connector and secondary pressure sensor connector. Connector & terminal (T4) No. 14 — (AT6) No. 2: (T4) No. 17 — (AT6) No. 1: (T4) No. 18 — (AT6) No. 3: CHECK TRANSMISSION HARNESS. Measure the resistance between transmission connector and chassis ground.	Is the resistance less than 1 $\Omega?$ Is the resistance 1 $\text{M}\Omega$ or more?	Go to step 5 . Go to step 6 .	Repair the open circuit of harness. Repair the short circuit of harness.
	Connector & terminal (T4) No. 14 — Chassis ground: (T4) No. 17 — Chassis ground:			
6	CHECK SENSOR POWER SUPPLY. 1) Connect the connectors of TCM and transmission. 2) Turn the ignition switch to ON. 3) Measure the voltage between secondary pressure sensor connector terminals. Connector & terminal (AT6) No. 1 (+) — (AT6) No. 3 (-):	Is the voltage 4.5 V or more?	Replace the sec- ondary pressure sensor. <ref. to<br="">CVT(TR690)-110, Secondary Pres- sure Sensor.></ref.>	Go to step 7.
7	CHECK TRANSMISSION FLUID. 1) Connect all connectors. 2) Check the amount of ATF. <ref. adjustment,="" cvt(tr690)-36,="" cvtf.="" to=""></ref.>	Is the ATF amount correct?	Go to step 8.	Adjust the amount of ATF. <ref. to<br="">CVT(TR690)-36, ADJUSTMENT, CVTF.></ref.>
8	CHECK TRANSMISSION FLUID. Check the condition of ATF. <ref. check,="" condition="" cvt(tr690)-40,="" cvtf.="" to=""></ref.>	Is the ATF OK?	Go to step 9.	Check according to the "Corrective action" of ATF (CVTF) "CONDI- TION CHECK". <ref. to<br="">CVT(TR690)-40, CONDITION CHECK, CVTF.></ref.>
9	CHECK INPUT SIGNAL FOR TCM. 1) Lift up the vehicle. 2) Start the engine. 3) Warm up until the ATF temperature reaches to 40 — 70°C (104 — 158°F). 4) Shift the select lever to "P" range. 5) Stabilize the engine speed at idle. 6) Read the data of «Actual secondary pressure» using Subaru Select Monitor.	Is the «Actual secondary pressure» 0.5 — 1.5 MPa?	Go to step 10.	Replace the sec- ondary pressure sensor. <ref. to<br="">CVT(TR690)-110, Secondary Pres- sure Sensor.></ref.>
10	CHECK INPUT SIGNAL FOR TCM. 1) Keep the engine speed at 3,000 rpm. 2) Read the data of «Actual secondary pressure» using Subaru Select Monitor.	Is the «Actual secondary pressure» higher than step 9 value? Does the value change according to the engine speed, within the range of 1.5 — 2.5 MPa?	Go to step 11.	Replace the sec- ondary pressure sensor. <ref. to<br="">CVT(TR690)-110, Secondary Pres- sure Sensor.></ref.>

	Step	Check	Yes	No
11	CHECK TCM INPUT SIGNAL (STALL TEST). 1) Apply the parking brake. 2) Set the select lever to "D" range. 3) Depress the brake pedal firmly. 4) Slowly open the accelerator fully, and stabilize the engine speed. 5) Read the data of «Actual secondary pressure» using Subaru Select Monitor. CAUTION: Do not perform a stall test for over 5 seconds at a time.	Is the "Actual secondary pressure" higher than step 10 value? Does the value change according to the engine speed, within the range of 4.5 — 6.0 MPa?	Go to step 12.	Replace the sec- ondary pressure sensor. <ref. to<br="">CVT(TR690)-110, Secondary Pres- sure Sensor.></ref.>
12	DRIVING CHECK BY INSPECTION MODE. 1) Turn the ignition switch to OFF. 2) Perform a drive check based on the "Inspection Mode". <ref. cvt(diag)-18,="" inspection="" mode.="" to=""></ref.>	Does the AT OIL TEMP light blink and is DTC P0841 dis- played?	Perform the sec- ondary pressure test. <ref. to<br="">CVT(TR690)-49, Secondary Pres- sure (Line Pres- sure) Test.></ref.>	If there is shift problems, abrupt increase of engine speed, standing start problems, replace the transmission assembly. <ref. assembly.="" automatic="" cvt(tr690)-56,="" to="" transmission=""> If it is normal, temporary poor contact occurs.</ref.>

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

X: DTC P0842 SECONDARY OIL PRESSURE SENSOR CIRCUIT (LOW)

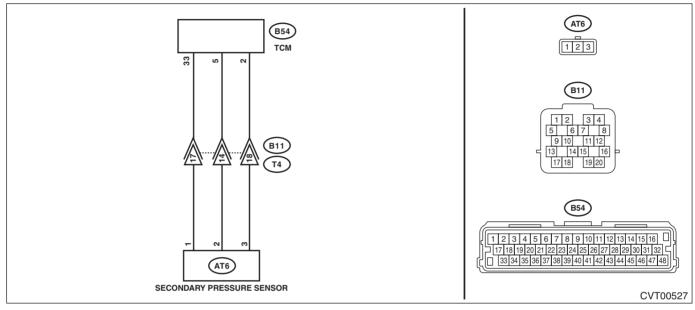
DTC DETECTING CONDITION:

- · Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-32, DTC P0842 SECONDARY OIL PRESSURE SENSOR CIRCUIT (LOW), Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

Shift characteristics malfunction

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK INPUT SIGNAL FOR TCM. 1) Start the engine. 2) Warm up until the ATF temperature reaches to 40 — 70°C (104 — 158°F). 3) Shift the select lever to "P" range. 4) Stabilize the engine speed at idle. 5) Read the data of "Actual secondary pressure" using Subaru Select Monitor.	Is the «Actual secondary pressure» 0.5 — 1.5 MPa?	Check for poor contact of connector.	Go to step 2.
2	CHECK HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM and transmission connectors. 3) Measure the resistance between TCM connector and transmission connectors. Connector & terminal (B54) No. 2 — (B11) No. 18: (B54) No. 5 — (B11) No. 14: (B54) No. 33 — (B11) No. 17:	Is the resistance less than 1 Ω ?	Go to step 3.	Repair the open circuit of harness.
3	CHECK HARNESS. Measure the resistance between TCM connector and chassis ground. Connector & terminal (B54) No. 5 — Chassis ground: (B54) No. 33 — Chassis ground:	Is the resistance 1 $M\Omega$ or more?	Go to step 4.	Repair the short circuit of harness.

	Step	Check	Yes	No
4	CHECK TRANSMISSION HARNESS. 1) Disconnect the secondary pressure sensor connector. 2) Measure the resistance between transmission connector and secondary pressure sensor connector. Connector & terminal (T4) No. 14 — (AT6) No. 2: (T4) No. 17 — (AT6) No. 1: (T4) No. 18 — (AT6) No. 3:	Is the resistance less than 1 Ω ?	Go to step 5.	Repair the open circuit of harness.
5	CHECK TRANSMISSION HARNESS. Measure the resistance between transmission connector and chassis ground. Connector & terminal (T4) No. 14 — Chassis ground: (T4) No. 17 — Chassis ground:	Is the resistance 1 $M\Omega$ or more?	Go to step 6.	Repair the short circuit of harness.
6	CHECK SENSOR POWER SUPPLY. 1) Connect the connectors of TCM and transmission. 2) Turn the ignition switch to ON. 3) Measure the voltage between secondary pressure sensor connector terminals. Connector & terminal (AT6) No. 1 (+) — (AT6) No. 3 (-):	Is the voltage 4.5 V or more?	Replace the sec- ondary pressure sensor. <ref. to<br="">CVT(TR690)-110, Secondary Pres- sure Sensor.></ref.>	Check for poor contact of connector, and if no fault is found, replace the TCM. <ref. (tcm).="" control="" cvt(tr690)-126,="" module="" to="" transmission=""></ref.>

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

Y: DTC P0843 SECONDARY OIL PRESSURE SENSOR CIRCUIT (HIGH)

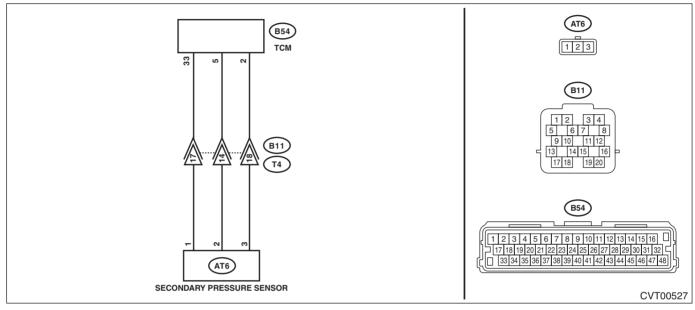
DTC DETECTING CONDITION:

- · Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-33, DTC P0843 SECONDARY OIL PRESSURE SENSOR CIRCUIT (HIGH), Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

Shift characteristics malfunction

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK INPUT SIGNAL FOR TCM. 1) Start the engine. 2) Warm up until the ATF temperature reaches to 40 — 70°C (104 — 158°F). 3) Shift the select lever to "P" range. 4) Stabilize the engine speed at idle. 5) Read the data of «Actual secondary pressure» using Subaru Select Monitor.	Is the «Actual secondary pressure» 0.5 — 1.5 MPa?	Check for poor contact of connector.	Go to step 2.
2	CHECK HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM and transmission connectors. 3) Turn the ignition switch to ON. 4) Measure the voltage between TCM connector and chassis ground. Connector & terminal (B54) No. 5 (+) — Chassis ground (-): (B54) No. 33 (+) — Chassis ground (-):	Is the voltage approx. 0 V?	Go to step 3.	Repair the short circuit of harness.
3	CHECK HARNESS. 1) Turn the ignition switch to OFF. 2) Measure the resistance between TCM connector terminals. Connector & terminal (B54) No. 5 — (B54) No. 33:	Is the resistance less than 1 Ω ?	Repair the short circuit of harness.	Go to step 4.

	Step	Check	Yes	No
4	CHECK TRANSMISSION HARNESS. 1) Disconnect the secondary pressure sensor connector. 2) Turn the ignition switch to ON. 3) Measure the voltage between transmission connector and chassis ground. Connector & terminal (T4) No. 14 (+) — Chassis ground (-): (T4) No. 17 (+) — Chassis ground (-):	Is the voltage approx. 0 V?	Go to step 5.	Repair the short circuit of harness.
5	CHECK TRANSMISSION HARNESS. 1) Turn the ignition switch to OFF. 2) Measure the resistance between transmission connector terminals. Connector & terminal (T4) No. 14 — (T4) No. 17:	Is the resistance less than 1 Ω ?	Repair the short circuit of harness.	Go to step 6.
6	CHECK SENSOR POWER SUPPLY. 1) Connect the connectors of TCM and transmission. 2) Turn the ignition switch to ON. 3) Measure the voltage between secondary pressure sensor connector terminals. Connector & terminal (AT6) No. 1 (+) — (AT6) No. 3 (-):	Is the voltage 4.5 V or more?	Replace the sec- ondary pressure sensor. <ref. to<br="">CVT(TR690)-110, Secondary Pres- sure Sensor.></ref.>	Check for poor contact of connector, and if no fault is found, replace the TCM. <ref. (tcm).="" control="" cvt(tr690)-126,="" module="" to="" transmission=""></ref.>

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

Z: DTC P0890 AT SELF-SHUT RELAY DIAGNOSIS (LOW)

DTC DETECTING CONDITION:

- · Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-34, DTC P0890 AT SELF-SHUT RELAY DIAGNOSIS (LOW), Diagnostic Trouble Code (DTC) Detecting Criteria.>

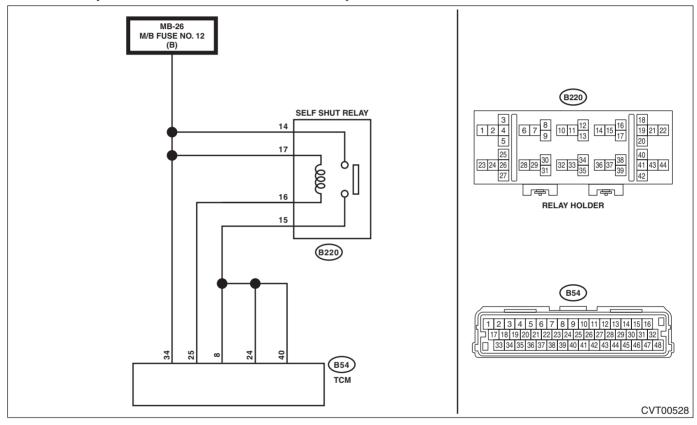
TROUBLE SYMPTOM:

Gear is not changed.

CAUTION:

After diagnosis, perform Clear Memory Mode for ECM. <Ref. to EN(w/o STI)(diag)-61, Clear Memory Mode.>

WIRING DIAGRAM:



Step	Check	Yes	No
1 CHECK HARNESS. 1) Disconnect the TCM and self shut relay connectors. 2) Measure the resistance between TCM connector and self shut relay connector. Connector & terminal (B54) No. 25 — (B220) No. 16: (B54) No. 8 — (B220) No. 15: (B54) No. 24 — (B220) No. 15: (B54) No. 40 — (B220) No. 15:			Repair the open circuit of harness.

	Step	Check	Yes	No
2	CHECK HARNESS. Measure the resistance between TCM connector and chassis ground. Connector & terminal (B54) No. 25 — Chassis ground: (B54) No. 8 — Chassis ground: (B54) No. 24 — Chassis ground: (B54) No. 40 — Chassis ground:	Is the resistance 1 $M\Omega$ or more?	Go to step 3.	Repair the short circuit of harness.
3	CHECK RELAY POWER SUPPLY. Measure the voltage between self shut relay connector and chassis ground. Connector & terminal (B220) No. 14 (+) — Chassis ground (-): (B220) No. 17 (+) — Chassis ground (-):	Is the voltage 11 — 13 V or more?	Go to step 4.	Repair the open or short circuit of harness.
4	CHECK SELF SHUT RELAY. Measure the resistance between self shut relay terminals. Connector & terminal (B220) No. 16 — (B220) No. 17:	Is the resistance 110 — 140 Ω ?	Go to step 5.	Replace the self shut relay.
5	CHECK SELF SHUT RELAY. Measure the resistance between self shut relay terminals. Connector & terminal (B220) No. 14 — (B220) No. 15:	Is the resistance 1 $M\Omega$ or more?	Go to step 6.	Replace the self shut relay.
6	CHECK INPUT SIGNAL FOR TCM. 1) Connect the connectors of TCM and self shut relay. 2) Read the data of «Control module voltage» using Subaru Select Monitor.	Is the «Control module voltage» 10 V or more?	Current condition is normal. Check for poor contact in connectors or har- nesses, and repair the defective part.	Go to step 7.
7	CHECK FOR POOR CONTACT.	Is there poor contact of the self shut relay circuit?	Repair the poor contact.	Replace the TCM. <ref. to<br="">CVT(TR690)-126, Transmission Con- trol Module (TCM).></ref.>

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

AA:DTC P0951 MANUAL SWITCH

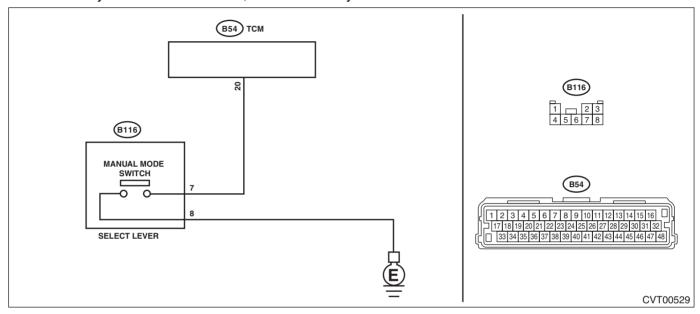
DTC DETECTING CONDITION:

- · Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-35, DTC P0951 MANUAL SWITCH, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

Manual mode can not be set.

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the manual mode switch connector. 3) Measure the resistance between manual mode switch connector and chassis ground. Connector & terminal (B116) No. 8 — Chassis ground:	Is the resistance less than 1 Ω ?	Go to step 2.	Repair the open circuit of harness.
2	CHECK MANUAL MODE SWITCH. Measure the resistance between manual mode switch terminals. Connector & terminal (B116) No. 7 — No. 8:	Is the resistance 1 $M\Omega$ or more?	Go to step 3.	Replace the select lever assembly. <ref. cs-24,<br="" to="">Select Lever.></ref.>
3	CHECK MANUAL MODE SWITCH. 1) Shift the select lever to manual mode. 2) Measure the resistance between manual mode switch terminals. Connector & terminal (B116) No. 7 — No. 8:	Is the resistance less than 1 Ω ?	Go to step 4.	Replace the select lever assembly. <ref. cs-24,<br="" to="">Select Lever.></ref.>
4	 CHECK HARNESS. Disconnect the TCM connector. Measure the resistance between TCM connector and manual mode switch connector. Connector & terminal (B54) No. 20 — (B116) No. 7: 	Is the resistance less than 1 Ω ?	Go to step 5.	Repair the open circuit of harness or poor contact of connector.

	Step	Check	Yes	No
5	CHECK HARNESS. Measure the resistance between manual mode switch connector and chassis ground. Connector & terminal (B116) No. 7 — Chassis ground:	Is the resistance 1 M Ω or more?	Go to step 6.	Repair the short circuit of harness.
6	 CHECK INPUT SIGNAL FOR TCM. 1) Connect the TCM and manual mode switch connector. 2) Turn the ignition switch to ON. 3) Set the select lever to "D" range. 4) Read the data of «Tiptronic Mode Switch» using Subaru Select Monitor. 	Does the value of «Tiptronic Mode Switch» change to "ON" with select lever in manual mode, and "OFF" with select lever in other than manual mode?	Current condition is normal.	Go to step 7.
7	CHECK FOR POOR CONTACT.	Is there poor contact of the manual mode switch circuit?	Repair the poor contact.	Replace the TCM. <ref. to<br="">CVT(TR690)-126, Transmission Con- trol Module (TCM).></ref.>

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

AB:DTC P0961 PRESSURE CONTROL SOLENOID "A" CONTROL CIRCUIT RANGE/PERFORMANCE

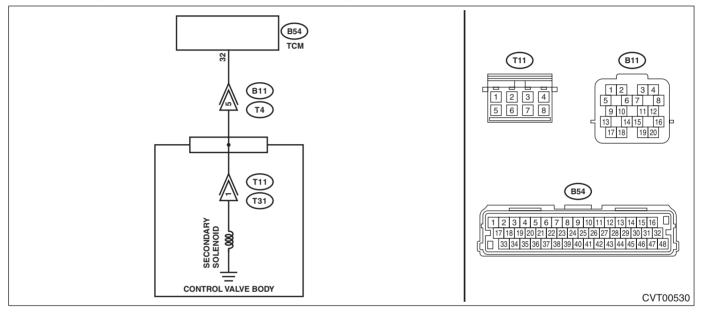
DTC DETECTING CONDITION:

- · Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-36, DTC P0961 PRESSURE CONTROL SOLENOID "A" CONTROL CIRCUIT RANGE/PERFORMANCE, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

- Acceleration is poor during standing start.
- Shift control malfunction
- Engine speed increases abruptly.

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK DTC. Read the DTC using Subaru Select Monitor.	Besides DTC P0961, is DTC P0962 or P0963 displayed?	Perform the diagnosis according to DTCs other than P0961.	Go to step 2.
2	CHECK SECONDARY SOLENOID (SYSTEM OPERATION CHECK MODE). 1) Turn the ignition switch to ON. 2) Using the Subaru Select Monitor, perform forced operation of the secondary solenoid. <ref. check="" cvt(diag)-22,="" mode.="" operation="" system="" to=""></ref.>	Does the indication change as $300 \rightarrow 500 \rightarrow 700$ mA during forced operation, and does «Sec. Sol. Actual Current» synchronize with «Sec. Sol. Set Current»?	Go to step 3.	Replace the control valve body. <ref. body.="" control="" cvt(tr690)-112,="" to="" valve=""></ref.>
3	CHECK FOR POOR CONTACT. Check for poor contact of harness and connector between TCM and secondary solenoid.	Is there poor contact?	Repair the poor contact of harness and connector.	Go to step 4.
4	CHECK SECONDARY SOLENOID. 1) Turn the ignition switch to OFF. 2) Disconnect the transmission connector. 3) Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 5 — Transmission body:	Is the resistance approx. 5 — 7 Ω ? (when cold)	Recheck the poor contact of harness and connector. Replace the TCM if no fault is found. <ref. (tcm).="" control="" cvt(tr690)-126,="" module="" to="" transmission=""></ref.>	<ref. td="" to<=""></ref.>

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

AC:DTC P0962 SECONDARY SOLENOID CIRCUIT (LOW)

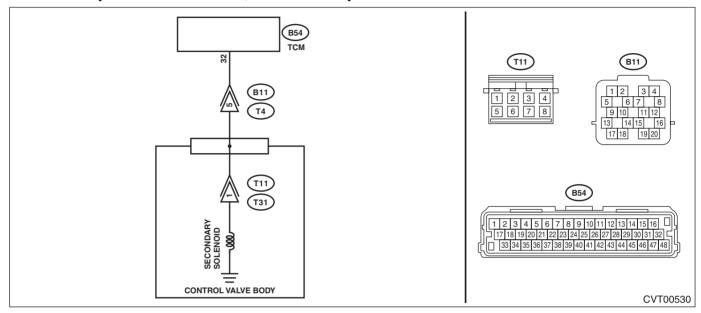
DTC DETECTING CONDITION:

- · Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-37, DTC P0962 SECONDARY SOLENOID CIRCUIT (LOW), Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

- Engine speed increases abruptly, and can not start.
- Engine speed increases abruptly during driving.

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK INPUT SIGNAL FOR TCM. 1) After driving with warm up condition, park the vehicle while depressing the brake pedal at "N" range. 2) Read the data of «Sec. Sol. Set Current» and «Sec. Sol. Actual Current» using Subaru Select Monitor.	Does the value of «Sec. Sol. Set Current» and «Sec. Sol. Actual Current» almost correspond?	Check for poor contact of connector.	Go to step 2.
2	CHECK HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM and transmission connectors. 3) Measure the resistance between TCM connector and chassis ground. Connector & terminal (B54) No. 32 — Chassis ground:	Is the resistance 1 $M\Omega$ or more?	Go to step 3.	Repair the short circuit of harness.
3	CHECK SECONDARY SOLENOID. Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 5 — Transmission body:	Is the resistance approx. 5 — 7 Ω ? (when cold)	Check for poor contact of connector, and if no fault is found, replace the TCM. <ref. (tcm).="" control="" cvt(tr690)-126,="" module="" to="" transmission=""></ref.>	Go to step 4.

	Step	Check	Yes	No
4	CHECK HARNESS INSIDE TRANSMISSION. CAUTION: Start work after ATF cools down. 1) Remove the transmission oil pan. 2) Check for the harness pinch, damage.	Is there any fault in the har- ness?	Replace the transmission harness.	Go to step 5.
5	CHECK HARNESS INSIDE TRANSMISSION. 1) Disconnect the control valve body connector. 2) Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 5 — Transmission body:	Is the resistance 1 $M\Omega$ or more?	Replace the control valve body. <ref. body.="" control="" cvt(tr690)-112,="" to="" valve=""></ref.>	Replace the transmission harness.

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

AD:DTC P0963 SECONDARY SOLENOID CIRCUIT (HIGH)

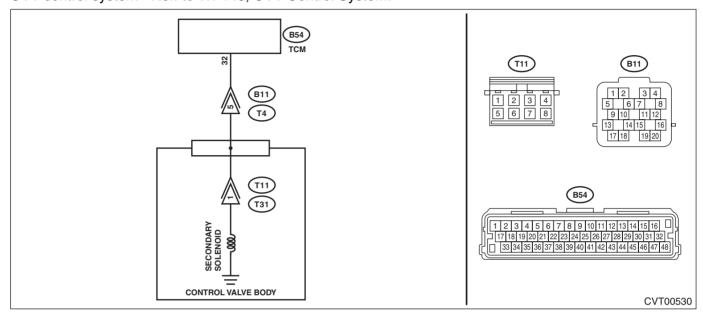
DTC DETECTING CONDITION:

- · Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-38, DTC P0963 SECONDARY SOLENOID CIRCUIT (HIGH), Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

- Engine speed increases abruptly, and can not start.
- Engine speed increases abruptly during driving.

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK INPUT SIGNAL FOR TCM. 1) After driving with warm up condition, park the vehicle while depressing the brake pedal at "N" range. 2) Read the data of «Sec. Sol. Set Current» and «Sec. Sol. Actual Current» using Subaru Select Monitor.	Does the value of «Sec. Sol. Set Current» and «Sec. Sol. Actual Current» almost correspond?	Check for poor contact of connector.	Go to step 2.
2	CHECK HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM and transmission connectors. 3) Measure the resistance between TCM connector and transmission connectors. Connector & terminal (B54) No. 32 — (B11) No. 5:	Is the resistance less than 1 Ω ?	Go to step 3.	Repair the open circuit of harness.
3	CHECK HARNESS. 1) Turn the ignition switch to ON. 2) Measure the voltage between TCM connector and chassis ground. Connector & terminal (B54) No. 32 (+) — Chassis ground (-):	Is the voltage approx. 0 V?	Go to step 4.	Repair the short circuit of harness.

	Step	Check	Yes	No
4	CHECK SECONDARY SOLENOID. Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 5 — Transmission body:	Is the resistance approx. 5 — 7 Ω ? (when cold)	Check for poor contact of connector, and if no fault is found, replace the TCM. <ref. (tcm).="" control="" cvt(tr690)-126,="" module="" to="" transmission=""></ref.>	Go to step 5.
5	CHECK HARNESS INSIDE TRANSMISSION. CAUTION: Start work after ATF cools down. 1) Remove the transmission oil pan. 2) Check for the harness pinch, damage.	Is there any fault in the har- ness?	Replace the transmission harness.	Go to step 6.
6	CHECK HARNESS INSIDE TRANSMISSION. 1) Disconnect the control valve body connector. 2) Turn the ignition switch to ON. 3) Measure the voltage between transmission connector and transmission body. Connector & terminal (T4) No. 5 (+) — Transmission body (-):	Is the voltage approx. 0 V?	Replace the control valve body. <ref. body.="" control="" cvt(tr690)-112,="" to="" valve=""></ref.>	Replace the transmission harness.

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

AE:DTC P0965 FORWARD & REVERSE SOLENOID FUNCTION

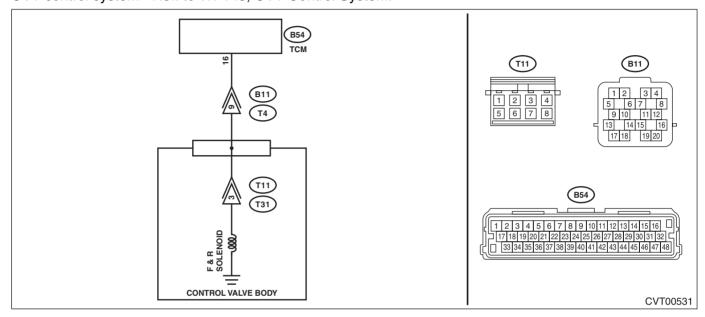
DTC DETECTING CONDITION:

- · Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-39, DTC P0965 FORWARD & REVERSE SOLENOID FUNCTION, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

- Engine speed increases abruptly, and can not accelerate.
- Excessive slippage is felt.

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK DTC. Read the DTC using Subaru Select Monitor.	Besides DTC P0965, is any of the DTCs P0720, P0966, P0967, P1706 and P2751 dis- played?	Perform the diagnosis according to DTCs other than P0965.	Go to step 2.
2	CHECK F&R SOLENOID (SYSTEM OPERATION CHECK MODE). 1) Turn the ignition switch to ON. 2) Using the Subaru Select Monitor, perform forced operation of the F&R solenoid. <ref. check="" cvt(diag)-22,="" mode.="" operation="" system="" to=""></ref.>	Does the indication change as 300 → 500 → 700 mA during forced operation, and does «F&R Linear Solenoid Actual Current» synchronize with «F&R Linear Solenoid Set Current»?	Go to step 3.	Replace the control valve body. <ref. body.="" control="" cvt(tr690)-112,="" to="" valve=""></ref.>
3	CHECK FOR POOR CONTACT. Check for poor contact of harness and connector between TCM and F&R solenoid.	Is there poor contact?	Repair the poor contact of harness and connector.	Go to step 4.
4	CHECK F&R SOLENOID. 1) Turn the ignition switch to OFF. 2) Disconnect the transmission connector. 3) Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 9 — Transmission body:	Is the resistance approx. 4 — 6 Ω ? (when cold)	Recheck the poor contact of harness and connector. Replace the TCM if no fault is found. <ref. (tcm).="" control="" cvt(tr690)-126,="" module="" to="" transmission=""></ref.>	<ref. td="" to<=""></ref.>

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

AF:DTC P0966 FORWARD & REVERSE SOLENOID CIRCUIT (LOW)

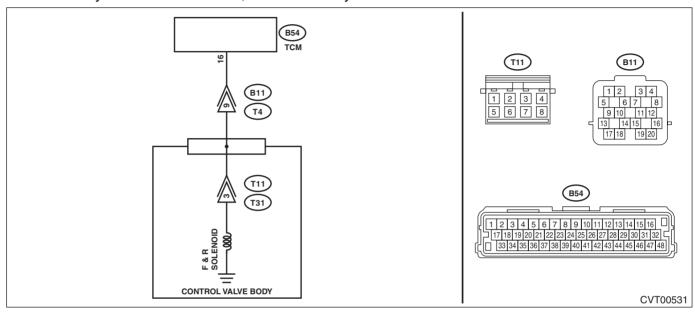
DTC DETECTING CONDITION:

- · Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-40, DTC P0966 FORWARD & REVERSE SOLENOID CIRCUIT (LOW), Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

Excessive shift shock

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK INPUT SIGNAL FOR TCM. 1) After driving with warm up condition, park the vehicle while depressing the brake pedal at "D" range. 2) Read the data of «F&R Linear Solenoid Set Current» and «F&R Linear Solenoid Actual Current» using Subaru Select Monitor.	Does the value of «F&R Linear Solenoid Set Current» and «F&R Linear Solenoid Actual Current» almost correspond?	Check for poor contact of connector.	Go to step 2.
2	CHECK HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM and transmission connectors. 3) Measure the resistance between TCM connector and chassis ground. Connector & terminal (B54) No. 16 — Chassis ground:	Is the resistance 1 M Ω or more?	Go to step 3.	Repair the short circuit of harness.
3	CHECK F&R SOLENOID. Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 9 — Transmission body:	Is the resistance approx. $4-6$ Ω ? (when cold)	Check for poor contact of connector, and if no fault is found, replace the TCM. <ref. (tcm).="" control="" cvt(tr690)-126,="" module="" to="" transmission=""></ref.>	Go to step 4.

	Step	Check	Yes	No
4	CHECK HARNESS INSIDE TRANSMISSION. CAUTION: Start work after ATF cools down. 1) Remove the transmission oil pan. 2) Check for the harness pinch, damage.	Is there any fault in the har- ness?	Replace the transmission harness.	Go to step 5.
5	CHECK HARNESS INSIDE TRANSMISSION. 1) Disconnect the control valve body connector. 2) Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 9 — Transmission body:	Is the resistance 1 M Ω or more?	Replace the control valve body. <ref. body.="" control="" cvt(tr690)-112,="" to="" valve=""></ref.>	Replace the transmission harness.

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

AG:DTC P0967 FORWARD & REVERSE LINEAR SOLENOID CIRCUIT (HIGH)

DTC DETECTING CONDITION:

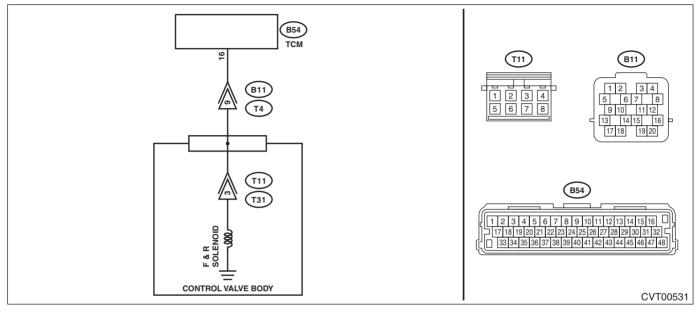
• Immediately at fault recognition

• GENERAL DESCRIPTION <Ref. to GD(CVT)-41, DTC P0967 FORWARD & REVERSE LINEAR SOLE-NOID CIRCUIT (HIGH), Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

Engine speed increases abruptly, and can not start.

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK INPUT SIGNAL FOR TCM. 1) After driving with warm up condition, park the vehicle while depressing the brake pedal at "D" range. 2) Read the data of «F&R Linear Solenoid Set Current» and «F&R Linear Solenoid Actual Current» using Subaru Select Monitor.	Does the value of «F&R Linear Solenoid Set Current» and «F&R Linear Solenoid Actual Current» almost correspond?	Check for poor contact of connector.	Go to step 2.
2	CHECK HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM and transmission connectors. 3) Measure the resistance between TCM connector and transmission connectors. Connector & terminal (B54) No. 16 — (B11) No. 9:	Is the resistance less than 1 Ω ?	Go to step 3.	Repair the open circuit of harness.
3	CHECK HARNESS. 1) Turn the ignition switch to ON. 2) Measure the voltage between TCM connector and chassis ground. Connector & terminal (B54) No. 16 (+) — Chassis ground (-):	Is the voltage approx. 0 V?	Go to step 4.	Repair the short circuit of harness.

	Step	Check	Yes	No
4	CHECK F&R SOLENOID. Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 9 — Transmission body:	Is the resistance approx. 4 — 6 Ω ? (when cold)	Check for poor contact of connector, and if no fault is found, replace the TCM. <ref. (tcm).="" control="" cvt(tr690)-126,="" module="" to="" transmission=""></ref.>	Go to step 5.
5	CHECK HARNESS INSIDE TRANSMISSION. CAUTION: Start work after ATF cools down. 1) Remove the transmission oil pan. 2) Check for the harness pinch, damage.	Is there any fault in the har- ness?	Replace the transmission harness.	Go to step 6.
6	CHECK HARNESS INSIDE TRANSMISSION. 1) Disconnect the control valve body connector. 2) Turn the ignition switch to ON. 3) Measure the voltage between transmission connector and transmission body. Connector & terminal (T4) No. 9 (+) — Transmission body (-):	Is the voltage approx. 0 V?	Replace the control valve body. <ref. body.="" control="" cvt(tr690)-112,="" to="" valve=""></ref.>	Replace the transmission harness.

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

AH:DTC P0970 TRANSFER SOLENOID CIRCUIT (LOW)

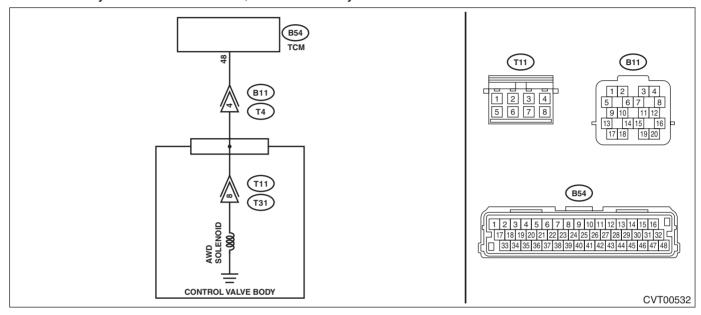
DTC DETECTING CONDITION:

- Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-42, DTC P0970 TRANSFER SOLENOID CIRCUIT (LOW), Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

Drivability getting worse.

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM and transmission connectors. 3) Measure the resistance between TCM connector and chassis ground. Connector & terminal (B54) No. 48 — Chassis ground:	Is the resistance 1 M Ω or more?	Go to step 2.	Repair the short circuit of harness.
2	CHECK AWD SOLENOID. Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 4 — Transmission body:	Is the resistance approx. 2 — 4.5 Ω ? (when cold)	Check for poor contact of connector, and if no fault is found, replace the TCM. <ref. (tcm).="" control="" cvt(tr690)-126,="" module="" to="" transmission=""></ref.>	Go to step 3.
3	CHECK HARNESS INSIDE TRANSMISSION. CAUTION: Start work after ATF cools down. 1) Remove the transmission oil pan. 2) Check for the harness pinch, damage.	Is there any fault in the harness?	Replace the transmission harness.	Go to step 4.

	Step	Check	Yes	No
4	CHECK HARNESS INSIDE TRANSMISSION.			Replace the trans-
	 Disconnect the control valve body connector. 	more?	trol valve body. <ref. th="" to<=""><th>mission harness.</th></ref.>	mission harness.
	Measure the resistance between transmis-		CVT(TR690)-112,	
	sion connector and transmission body.		Control Valve	
	Connector & terminal		Body.>	
	(T4) No. 4 — Transmission body:			

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

AI: DTC P0971 TRANSFER SOLENOID CIRCUIT (HIGH)

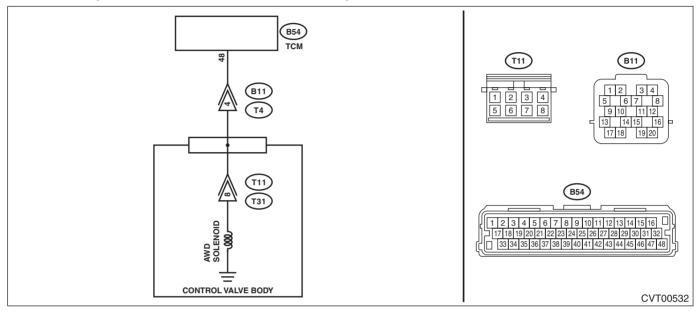
DTC DETECTING CONDITION:

- Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-43, DTC P0971 TRANSFER SOLENOID CIRCUIT (HIGH), Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

- Tight corner braking phenomenon occurs.
- · Drivability getting worse.

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM and transmission connectors. 3) Measure the resistance between TCM connector and transmission connectors. Connector & terminal (B54) No. 48 — (B11) No. 4:	Is the resistance less than 1 Ω ?	Go to step 2.	Repair the open circuit of harness.
2	CHECK HARNESS. 1) Turn the ignition switch to ON. 2) Measure the voltage between TCM connector and chassis ground. Connector & terminal (B54) No. 48 (+) — Chassis ground (-):	Is the voltage approx. 0 V?	Go to step 3.	Repair the short circuit of harness.
3	CHECK AWD SOLENOID. Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 4 — Transmission body:	Is the resistance approx. 2 — 4.5 Ω ? (when cold)	Check for poor contact of connector, and if no fault is found, replace the TCM. <ref. (tcm).="" control="" cvt(tr690)-126,="" module="" to="" transmission=""></ref.>	Go to step 4.

	Step	Check	Yes	No
4	CHECK HARNESS INSIDE TRANSMISSION. CAUTION: Start work after ATF cools down. 1) Remove the transmission oil pan. 2) Check for the harness pinch, damage.	Is there any fault in the har- ness?	Replace the transmission harness.	Go to step 5.
5	CHECK HARNESS INSIDE TRANSMISSION. 1) Disconnect the control valve body connector. 2) Turn the ignition switch to ON. 3) Measure the voltage between transmission connector and transmission body. Connector & terminal (T4) No. 4 (+) — Transmission body (-):	Is the voltage approx. 0 V?	Replace the control valve body. <ref. body.="" control="" cvt(tr690)-112,="" to="" valve=""></ref.>	Replace the transmission harness.

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

AJ:DTC P0973 PRIMARY SOLENOID SYSTEM A CIRCUIT (LOW)

DTC DETECTING CONDITION:

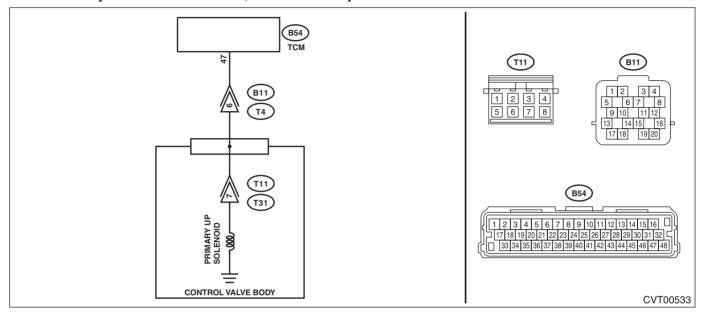
· Immediately at fault recognition

• GENERAL DESCRIPTION <Ref. to GD(CVT)-44, DTC P0973 PRIMARY SOLENOID SYSTEM A CIRCUIT (LOW), Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

Gear is not changed. (No up-shift)

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM and transmission connectors. 3) Measure the resistance between TCM connector and chassis ground. Connector & terminal (B54) No. 47 — Chassis ground:	Is the resistance 1 $M\Omega$ or more?	Go to step 2.	Repair the short circuit of harness.
2	CHECK PRIMARY UP SOLENOID. Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 6 — Transmission body:	Is the resistance approx. 10 — 13.5 Ω ? (when cold)	Check for poor contact of connector, and if no fault is found, replace the TCM. <ref. (tcm).="" control="" cvt(tr690)-126,="" module="" to="" transmission=""></ref.>	Go to step 3.
3	CHECK HARNESS INSIDE TRANSMISSION. CAUTION: Start work after ATF cools down. 1) Remove the transmission oil pan. 2) Check for the harness pinch, damage.	Is there any fault in the harness?	Replace the transmission harness.	Go to step 4.

	Step	Check	Yes	No
4	 CHECK HARNESS INSIDE TRANSMISSION. 1) Disconnect the control valve body connector. 2) Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 6 — Transmission body: 			Replace the transmission harness.

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

AK:DTC P0974 PRIMARY SOLENOID SYSTEM A CIRCUIT (HIGH)

DTC DETECTING CONDITION:

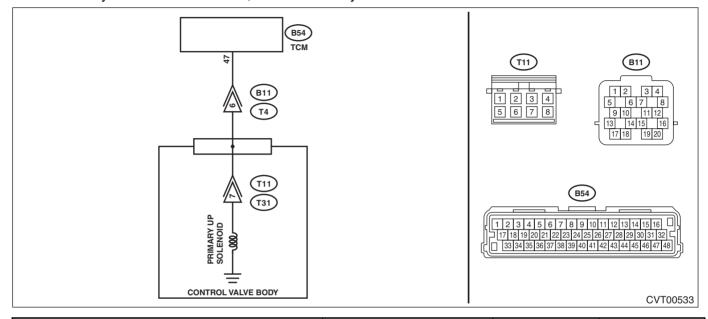
· Immediately at fault recognition

• GENERAL DESCRIPTION <Ref. to GD(CVT)-45, DTC P0974 PRIMARY SOLENOID SYSTEM A CIRCUIT (HIGH), Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

Gear is not changed. (No up-shift)

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM and transmission connectors. 3) Measure the resistance between TCM connector and transmission connectors. Connector & terminal (B54) No. 47 — (B11) No. 6:	Is the resistance less than 1 Ω ?	Go to step 2.	Repair the open circuit of harness.
2	 CHECK HARNESS. 1) Turn the ignition switch to ON. 2) Measure the voltage between TCM connector and chassis ground. Connector & terminal (B54) No. 47 (+) — Chassis ground (-): 	Is the voltage approx. 0 V?	Go to step 3.	Repair the short circuit of harness.
3	CHECK PRIMARY UP SOLENOID. Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 6 — Transmission body:	Is the resistance approx. 10 — 13.5 Ω ? (when cold)	Check for poor contact of connector, and if no fault is found, replace the TCM. <ref. (tcm).="" control="" cvt(tr690)-126,="" module="" to="" transmission=""></ref.>	Go to step 4.
4	CHECK HARNESS INSIDE TRANSMISSION. CAUTION: Start work after ATF cools down. 1) Remove the transmission oil pan. 2) Check for the harness pinch, damage.	Is there any fault in the har- ness?	Replace the trans- mission harness.	Go to step 5.

	Step	Check	Yes	No
5	 CHECK HARNESS INSIDE TRANSMISSION. Disconnect the control valve body connector. Turn the ignition switch to ON. Measure the voltage between transmission connector and transmission body. Connector & terminal (T4) No. 6 (+) — Transmission body (-): 	Is the voltage approx. 0 V?	Replace the control valve body. <ref. body.="" control="" cvt(tr690)-112,="" to="" valve=""></ref.>	Replace the transmission harness.

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

AL:DTC P0976 PRIMARY SOLENOID SYSTEM B CIRCUIT (LOW)

DTC DETECTING CONDITION:

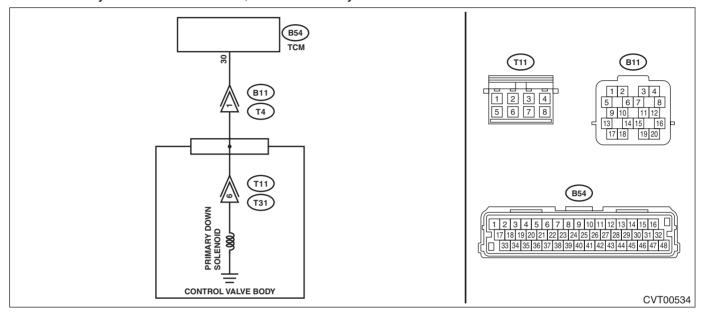
· Immediately at fault recognition

• GENERAL DESCRIPTION <Ref. to GD(CVT)-46, DTC P0976 PRIMARY SOLENOID SYSTEM B CIRCUIT (LOW), Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

Gear is not changed. (No down-shift)

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM and transmission connectors. 3) Measure the resistance between TCM connector and chassis ground. Connector & terminal (B54) No. 30 — Chassis ground:	Is the resistance 1 M Ω or more?	Go to step 2.	Repair the short circuit of harness.
2	CHECK PRIMARY DOWN SOLENOID. Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 1 — Transmission body:	Is the resistance approx. 10 — 13.5 Ω ? (when cold)	Check for poor contact of connec- tor, and if no fault is found, replace the TCM. <ref. to<br="">CVT(TR690)-126, Transmission Con- trol Module (TCM).></ref.>	Go to step 3.
3	CHECK HARNESS INSIDE TRANSMISSION. CAUTION: Start work after ATF cools down. 1) Remove the transmission oil pan. 2) Check for the harness pinch, damage.	Is there any fault in the harness?	Replace the transmission harness.	Go to step 4.

	Step	Check	Yes	No
4	CHECK HARNESS INSIDE TRANSMISSION. 1) Disconnect the control valve body connector.		•	Replace the trans- mission harness.
	 Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 1 — Transmission body: 		CVT(TR690)-112, Control Valve Body.>	

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

AM:DTC P0977 PRIMARY SOLENOID SYSTEM B CIRCUIT (HIGH)

DTC DETECTING CONDITION:

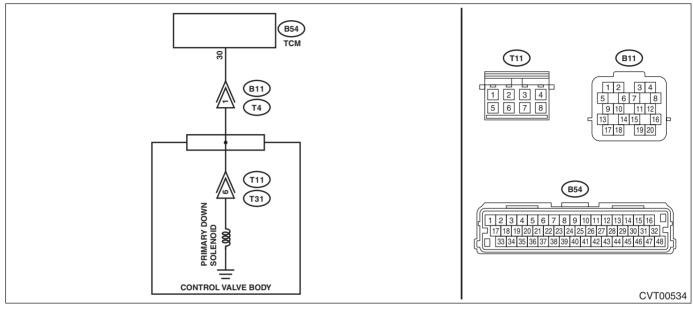
• Immediately at fault recognition

• GENERAL DESCRIPTION <Ref. to GD(CVT)-47, DTC P0977 PRIMARY SOLENOID SYSTEM B CIRCUIT (HIGH), Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

Gear is not changed. (No down-shift)

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM and transmission connectors. 3) Measure the resistance between TCM connector and transmission connectors. Connector & terminal (B54) No. 30 — (B11) No. 1:	Is the resistance less than 1 Ω ?	Go to step 2.	Repair the open circuit of harness.
2	CHECK HARNESS. 1) Turn the ignition switch to ON. 2) Measure the voltage between TCM connector and chassis ground. Connector & terminal (B54) No. 30 (+) — Chassis ground (-):	Is the voltage approx. 0 V?	Go to step 3.	Repair the short circuit of harness.
3	CHECK PRIMARY DOWN SOLENOID. Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 1 — Transmission body:	Is the resistance approx. 10 — 13.5 Ω ? (when cold)	Check for poor contact of connector, and if no fault is found, replace the TCM. <ref. (tcm).="" control="" cvt(tr690)-126,="" module="" to="" transmission=""></ref.>	Go to step 4.
4	CHECK HARNESS INSIDE TRANSMISSION. CAUTION: Start work after ATF cools down. 1) Remove the transmission oil pan. 2) Check for the harness pinch, damage.	Is there any fault in the har- ness?	Replace the trans- mission harness.	Go to step 5.

	Step	Check	Yes	No
5	 CHECK HARNESS INSIDE TRANSMISSION. Disconnect the control valve body connector. Turn the ignition switch to ON. Measure the voltage between transmission connector and transmission body. Connector & terminal (T4) No. 1 (+) — Transmission body (-): 	Is the voltage approx. 0 V?	Replace the control valve body. <ref. body.="" control="" cvt(tr690)-112,="" to="" valve=""></ref.>	Replace the transmission harness.

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

AN:DTC P160A RANDOM ACCESS MEMORY (RAM) ERROR

DTC DETECTING CONDITION:

- Detected when two consecutive driving cycles with fault occur.
- GENERAL DESCRIPTION <Ref. to GD(CVT)-48, DTC P160A RANDOM ACCESS MEMORY (RAM) ERROR, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

TCM RAM malfunction

	Step	Check	Yes	No
1	CHECK DTC.	Is DTC P160A displayed?	Replace the TCM.	Current condition
	1) Perform the Clear Memory Mode using the		<ref. th="" to<=""><th>is normal. Check</th></ref.>	is normal. Check
	Subaru Select Monitor. <ref. cvt(diag)-17,<="" th="" to=""><th></th><th>CVT(TR690)-126,</th><th>for interference</th></ref.>		CVT(TR690)-126,	for interference
	Clear Memory Mode.>		Transmission Con-	from noise, etc.
	2) Read the DTC.		trol Module	
			(TCM).>	

AO:DTC P1706 AT VEHICLE SPEED SENSOR CIRCUIT MALFUNCTION (REAR WHEEL)

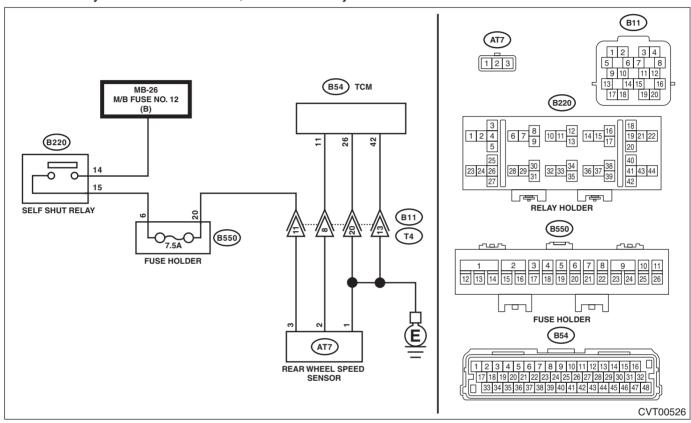
DTC DETECTING CONDITION:

- · Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-49, DTC P1706 AT VEHICLE SPEED SENSOR CIRCUIT MALFUNCTION (REAR WHEEL), Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

AWD does not function.

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK FUSE. 1) Turn the ignition switch to OFF. 2) Remove the fuse (7.5 A) from the fuse holder.	Is the fuse OK?	Go to step 2.	Replace the fuse. If the fuse blows out easily, repair the short circuit of har- ness.
2	CHECK HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM and transmission connectors. 3) Measure the resistance between TCM connector and transmission connectors. Connector & terminal (B54) No. 11 — (B11) No. 8: (B54) No. 26 — (B11) No. 20: (B54) No. 42 — (B11) No. 13: (B550) No. 20 — (B11) No. 11:	Is the resistance less than 1 Ω ?	Go to step 3.	Repair the open circuit of harness.

	Step	Check	Yes	No
3	CHECK HARNESS. Measure the resistance between TCM connector and chassis ground. Connector & terminal (B54) No. 11 — Chassis ground:	Is the resistance 1 $M\Omega$ or more?	Go to step 4.	Repair the short circuit of harness.
4	CHECK TRANSMISSION HARNESS. 1) Install the fuse. 2) Connect the TCM connector. 3) Turn the ignition switch to ON. 4) Measure the voltage between transmission connector terminals. Connector & terminal (B11) No. 11 (+) — Chassis ground (-):	Is the voltage approx. 10 — 13 V?	Go to step 5.	Repair the poor contact of harness or connector.
5	CHECK INPUT SIGNAL FOR TCM. 1) Turn the ignition switch to OFF. 2) Connect the transmission connector. 3) Lift up the vehicle. 4) Start the engine. 5) Slowly increase the speed to 30 km/h (19 MPH). 6) Read the data of «Rear Wheel Speed» using Subaru Select Monitor.	Does the value of «Rear Wheel Speed» change according to the engine speed?	Current condition is normal. Repair the poor contacts of harnesses of rear wheel speed sensor and trans- mission connector.	Go to step 6.
6	CHECK TRANSMISSION HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the transmission connector. 3) Lift up the vehicle. 4) Disconnect the rear wheel speed sensor connector. 5) Measure the resistance between transmission connector and rear wheel speed sensor connector. Connector & terminal (T4) No. 13 — (AT7) No. 1: (T4) No. 20 — (AT7) No. 1: (T4) No. 8 — (AT7) No. 2: (T4) No. 11 — (AT7) No. 3:	Is the resistance less than 1 Ω ?	Replace the rear wheel speed sen- sor. <ref. to<br="">CVT(TR690)-107, Rear Wheel Speed Sensor.></ref.>	Replace the transmission harness.

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

AP:DTC P170B OUTPUT SPEED SENSOR CIRCUIT RANGE/PERFORMANCE REAR

DTC DETECTING CONDITION:

- Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-50, DTC P170B OUTPUT SPEED SENSOR CIRCUIT RANGE/PERFORMANCE REAR, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

- · Acceleration is poor during standing start.
- No lock-up occurs.
- The engine stalls when the vehicle is stopped.
- Shift control malfunction

Step	Check	Yes	No
1 CHECK DTC. Read the DTC using Subaru Select Mor	Besides DTC P170B, is any of	Perform the diagnosis according to DTCs other than P170B.	Perform the diagnosis according to DTC P1706. <ref. (dtc).="" (rear="" at="" circuit="" code="" cvt(diag)-102,="" diagnostic="" dtc="" malfunction="" p1706="" procedure="" sensor="" speed="" to="" trouble="" vehicle="" wheel),="" with=""></ref.>

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

AQ:DTC P2530 IGNITION SWITCH RUN POSITION CIRCUIT

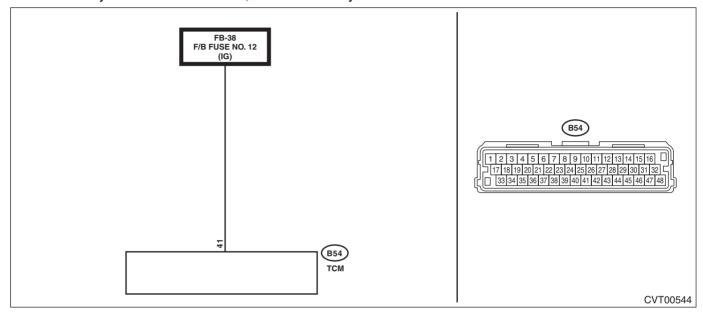
DTC DETECTING CONDITION:

- Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-51, DTC P2530 IGNITION SWITCH RUN POSITION CIRCUIT, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

Faulty TCM operation

WIRING DIAGRAM:



	Step	Check	Yes	No
1		Is the TCM connector installed properly?	•	Install the TCM connector.

	Step	Check	Yes	No
2	CHECK INPUT VOLTAGE OF TCM.	Is the voltage 8 V or more?	Even if DTC is	Repair the harness
	 Turn the ignition switch to ON. 		detected, the cir-	and connector.
	2) Measure the voltage between TCM connec-		cuit has returned to	NOTE:
	tor and chassis ground. (While wiggling the har-		a normal condition	In this case, repair
	ness)		at this time. Repro-	the following item:
	Connector & terminal		duce the failure,	 Open circuit or
	(B54) No. 41 (+) — Chassis ground (–):		and then perform	short circuit to
			the diagnosis	ground of harness
			again.	between TCM con-
			NOTE:	nector and ignition
			In this case, the fol-	
			lowing items may	(IG relay 1 connec-
			be the cause of	
			fault.	push button start)
			 Open circuit or 	 Poor contact of
			short circuit to	ignition switch con-
			ground of harness	nector (IG relay 1
			between TCM con-	
			nector and ignition	
			switch connector	button start)
			(IG relay 1 connec-	
			tor for model with	ignition switch (IG
			push button start)	relay 1 for model
			Poor contact of	with push button
			ignition switch con-	start)
			nector (IG relay 1	
			connector for	
			model with push	
			button start)	
			Poor contact of	
			ignition switch (IG	
			relay 1 for model	
			with push button	
			start)	

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

AR:DTC P2746 PRIMARY PULLEY REVOLUTION SPEED SENSOR CIRCUIT DTC DETECTING CONDITION:

- · Immediately at fault recognition
- GENERAL DESCRIPTION < Ref. to GD(CVT)-52, DTC P2746 PRIMARY PULLEY REVOLUTION SPEED SENSOR CIRCUIT, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

- · Standing start problems
- Shock occurs when engaging the lockup clutch.
- Shock occurs when selecting shift position.

Step	Check	Yes	No
1 CHECK DTC.	Besides DTC P2746, is any of	Perform the diag-	Perform the diag-
Read the DTC using Subaru Select Monitor.	the DTCs P2747, U0100 and	nosis according to	nosis according to
	U0401 displayed?	DTCs other than	DTC P2747. <ref.< td=""></ref.<>
		P2746.	to CVT(diag)-108,
			DTC P2747
			INTERMEDIATE
			SHAFT SPEED
			SENSOR "B" CIR-
			CUIT NO SIGNAL,
			Diagnostic Proce-
			dure with Diagnos-
			tic Trouble Code
			(DTC).>

AS:DTC P2747 INTERMEDIATE SHAFT SPEED SENSOR "B" CIRCUIT NO SIGNAL

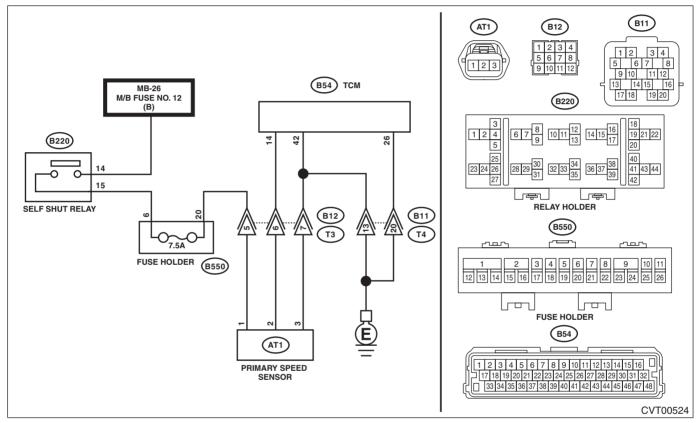
DTC DETECTING CONDITION:

- Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-53, DTC P2747 INTERMEDIATE SHAFT SPEED SENSOR "B" CIRCUIT NO SIGNAL, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

- · Standing start problems
- · Shock occurs when engaging the lockup clutch.
- Shock occurs when selecting shift position.

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK FUSE.1) Turn the ignition switch to OFF.2) Remove the fuse (7.5 A) from the fuse holder.	Is the fuse OK?	Go to step 2.	Replace the fuse. If the fuse blows out easily, repair the short circuit of har- ness.
2	CHECK HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM and transmission connectors. 3) Measure the resistance between TCM connector and transmission connectors. Connector & terminal (B54) No. 26 — (B11) No. 20: (B54) No. 42 — (B11) No. 13: (B54) No. 14 — (B12) No. 6: (B54) No. 42 — (B12) No. 7: (B550) No. 20 — (B12) No. 5:		Go to step 3.	Repair the open circuit of harness.

	Step	Check	Yes	No
3	CHECK HARNESS. Measure the resistance between TCM connector and chassis ground. Connector & terminal (B54) No. 14 — Chassis ground:	Is the resistance 1 $M\Omega$ or more?	Go to step 4.	Repair the short circuit of harness.
4	CHECK TRANSMISSION HARNESS. 1) Install the fuse. 2) Connect the TCM connector. 3) Turn the ignition switch to ON. 4) Measure the voltage between transmission connector terminals. Connector & terminal (B12) No. 5 (+) — Chassis ground (-):	Is the voltage 10 — 13 V?	Go to step 5.	Repair the open circuit of harness or poor contact of connector.
5	CHECK INPUT SIGNAL FOR TCM. 1) Turn the ignition switch to OFF. 2) Connect the transmission connector. 3) Lift up the vehicle. 4) Start the engine. 5) Set the select lever to "D" range. 6) Read the data of "Primary Pulley Speed" using Subaru Select Monitor.	Does the value of «Primary Pulley Speed» change according to those of «Turbine Revolution Speed»?	Current condition is normal. Repair the poor contacts of harnesses of pri- mary speed sensor and transmission connector.	Go to step 6.
6	CHECK TRANSMISSION HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the transmission connector. 3) Disconnect the primary speed sensor connector. 4) Measure the resistance between transmission connector and primary speed sensor connector. Connector & terminal (T3) No. 5 — (AT1) No. 1: (T3) No. 6 — (AT1) No. 2: (T3) No. 7 — (AT1) No. 3:	Is the resistance less than 1 Ω ?	Replace the primary speed sensor. <ref. cvt(tr690)-102,="" primary="" sensor.="" speed="" to=""></ref.>	Replace the transmission harness.

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

AT:DTC P2750 SEC. PULLEY REVOLUTION SPEED SENSOR CIRCUIT

- DTC DETECTING CONDITION:Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-54, DTC P2750 SEC. PULLEY REVOLUTION SPEED SENSOR CIRCUIT, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

- Shifting shock is felt.
- Acceleration is poor during standing start.
- Shift control malfunction

	Step	Check	Yes	No
1	CHECK DTC.	Besides DTC P2750, is DTC	Perform the diag-	Perform the diag-
	Read the DTC using Subaru Select Monitor.	P2747 or P2751 displayed?	nosis according to	nosis according to
			DTCs other than	DTC P2751. <ref.< th=""></ref.<>
			P2750.	to CVT(diag)-111,
				DTC P2751
				INTERMEDIATE
				SHAFT SPEED
				SENSOR "C" CIR-
				CUIT NO SIGNAL,
				Diagnostic Proce-
				dure with Diagnos-
				tic Trouble Code
				(DTC).>

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

AU:DTC P2751 INTERMEDIATE SHAFT SPEED SENSOR "C" CIRCUIT NO SIGNAL

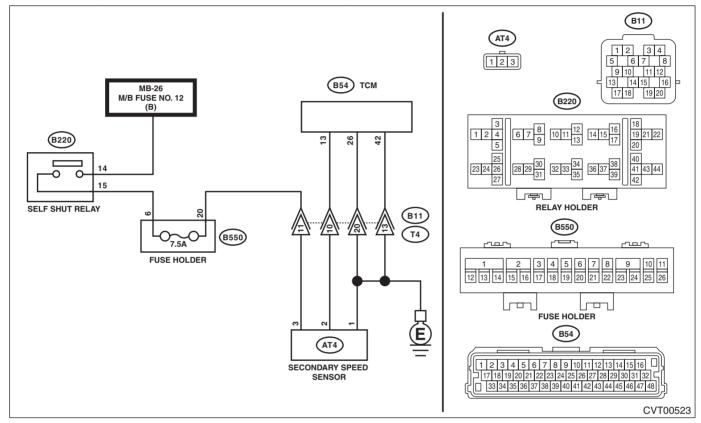
DTC DETECTING CONDITION:

- · Immediately at fault recognition
- GENERAL DESCRIPTION < Ref. to GD(CVT)-55, DTC P2751 INTERMEDIATE SHAFT SPEED SENSOR "C" CIRCUIT NO SIGNAL, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

- · Shifting shock is felt.
- · Acceleration is poor during standing start.
- Shift control malfunction

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK FUSE. 1) Turn the ignition switch to OFF. 2) Remove the fuse (7.5 A) from the fuse holder.	Is the fuse OK?		Replace the fuse. If the fuse blows out easily, repair the short circuit of har- ness.
2	CHECK HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM and transmission connectors. 3) Measure the resistance between TCM connector and transmission connectors. Connector & terminal (B54) No. 13 — (B11) No. 10: (B54) No. 26 — (B11) No. 20: (B54) No. 42 — (B11) No. 13: (B550) No. 20 — (B11) No. 11:	Is the resistance less than 1 Ω ?	•	Repair the open circuit of harness.

	Step	Check	Yes	No
3	CHECK HARNESS. Measure the resistance between TCM connector and chassis ground. Connector & terminal (B54) No. 13 — Chassis ground:	Is the resistance 1 $M\Omega$ or more?	Go to step 4.	Repair the short circuit of harness.
4	CHECK TRANSMISSION HARNESS. 1) Install the fuse. 2) Connect the TCM connector. 3) Turn the ignition switch to ON. 4) Measure the voltage between transmission connector terminals. Connector & terminal (B11) No. 11 (+) — Chassis ground (-):	Is the voltage 10 — 13 V?	Go to step 5.	Repair the open circuit of harness or poor contact of connector.
5	CHECK INPUT SIGNAL FOR TCM. 1) Turn the ignition switch to OFF. 2) Connect the transmission connector. 3) Lift up the vehicle. 4) Start the engine. 5) Set the select lever to "D" range. 6) Read the data of «Secondary Pulley Speed» using Subaru Select Monitor.	Does the value of «Secondary Pulley Speed» change accord- ing to those of «Front Wheel Speed»?	Current condition is normal. Repair the poor contacts of harnesses of secondary speed sensor and trans- mission connector.	Go to step 6.
6	CHECK TRANSMISSION HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the transmission connector. 3) Disconnect the secondary speed sensor connector. 4) Measure the resistance between transmission connector and secondary speed sensor connector. Connector & terminal (T4) No. 10 — (AT4) No. 2: (T4) No. 11 — (AT4) No. 3: (T4) No. 13 — (AT4) No. 1: (T4) No. 20 — (AT4) No. 1:	Is the resistance less than 1 Ω ?	Replace the sec- ondary speed sen- sor. <ref. to<br="">CVT(TR690)-99, Secondary Speed Sensor.></ref.>	Replace the transmission harness.

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

AV:DTC P2757 TORQUE CONVERTER CLUTCH PRESSURE CONTROL SOLE-NOID CONTROL CIRCUIT PERFORMANCE/STUCK OFF

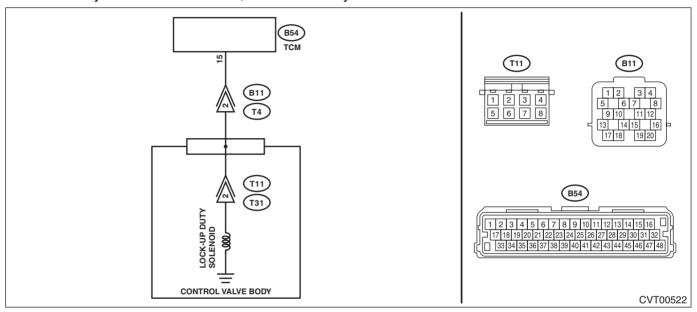
DTC DETECTING CONDITION:

- Detected when two consecutive driving cycles with fault occur.
- GENERAL DESCRIPTION <Ref. to GD(CVT)-56, DTC P2757 TORQUE CONVERTER CLUTCH PRESSURE CONTROL SOLENOID CONTROL CIRCUIT PERFORMANCE/STUCK OFF, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

No lock-up occurs.

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK DTC. Read the DTC using Subaru Select Monitor.	Besides DTC P2757, is any of the DTCs P2747, P2763, P2764, U0100 and U0401 dis- played?	Perform the diagnosis according to DTCs other than P2757.	Go to step 2.
2	CHECK LOCK-UP DUTY SOLENOID (SYSTEM OPERATION CHECK MODE). 1) Turn the ignition switch to ON. 2) Using the Subaru Select Monitor, perform forced operation of the lock-up duty solenoid. <ref. check="" cvt(diag)-22,="" mode.="" operation="" system="" to=""></ref.>	Does the indication of 0 → 50% appear repeatedly during forced operation, and does operating sound emit during indicating 50%?	Go to step 5.	Go to step 3.
3	 CHECK LOCK-UP DUTY SOLENOID. 1) Turn the ignition switch to OFF. 2) Disconnect the transmission connector. 3) Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 2 — Transmission body: 	Is the resistance approx. 10 — 13.5 Ω ? (when cold)	Go to step 7.	Go to step 4.
4	CHECK HARNESS. Check the continuity of transmission harness.	Is the harness normal? (Is it free from defects such as open circuit, power supply-output short or GND-output short cir- cuit, or poor contact?)	Go to step 7.	Repair the harness.

	Step	Check	Yes	No
5	CHECK TRANSMISSION FLUID. 1) Connect the transmission connector. 2) Check the amount of ATF. <ref. adjustment,="" cvt(tr690)-36,="" cvtf.="" to=""></ref.>	Is the ATF amount correct?	Go to step 6.	Adjust the amount of ATF. <ref. to<br="">CVT(TR690)-36, ADJUSTMENT, CVTF.></ref.>
6	CHECK TRANSMISSION FLUID. Check the condition of ATF. <ref. check,="" condition="" cvt(tr690)-40,="" cvtf.="" to=""></ref.>	Is the ATF OK?	Go to step 7.	Check according to the "Corrective action" of ATF (CVTF) "CONDI- TION CHECK". <ref. to<br="">CVT(TR690)-40, CONDITION CHECK, CVTF.></ref.>
7	CHECK INPUT SIGNAL FOR TCM. 1) Lift up the vehicle. 2) Start the engine. 3) Warm up until the ATF temperature reaches to 40 — 70°C (104 — 158°F). 4) Shift the select lever to "P" range. 5) Stabilize the engine speed at idle. 6) Read the data of «Actual secondary pressure» using Subaru Select Monitor.	Is the «Actual secondary pressure» 0.5 — 1.5 MPa?	Go to step 8.	Perform the diagnosis according to DTC P0841. <ref. (dtc).="" code="" cvt(diag)-68,="" diagnostic="" dtc="" oil="" p0841="" performance,="" pressure="" procedure="" secondary="" sensor="" to="" trouble="" with=""></ref.>
8	DRIVING CHECK FOR LOCK-UP CONDITION. 1) Perform the "Clear Memory Mode". <ref. clear="" cvt(diag)-17,="" memory="" mode.="" to=""> 2) Turn the ignition switch to OFF. 3) Start the engine. 4) Warm up until the ATF temperature exceeds 50°C. 5) Drive the vehicle for one minute or more while keeping such constant speed that «Lock Up Duty Ratio» is 70% or more, and «Front Wheel Speed» is 40 km/h (25 MPH) or more, which are displayed on the Subaru Select Monitor. 6) Turn the ignition switch to OFF. 7) Start the engine. 8) Perform the procedure in step 5) again. 9) Read the DTC using Subaru Select Monitor.</ref.>	Does the AT OIL TEMP light blink and is DTC P2757 dis- played?	Perform the secondary pressure test. <ref. (line="" cvt(tr690)-49,="" pressure="" pressure)="" secondary="" test.="" to=""> When DTC other than P2757 is displayed, perform the diagnosis corresponding to the DTC.</ref.>	Current condition is normal. Temporary oil pressure malfunction.

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

AW:DTC P2758 TORQUE CONVERTER CLUTCH PRESSURE CONTROL SOLE-NOID CONTROL CIRCUIT STUCK ON

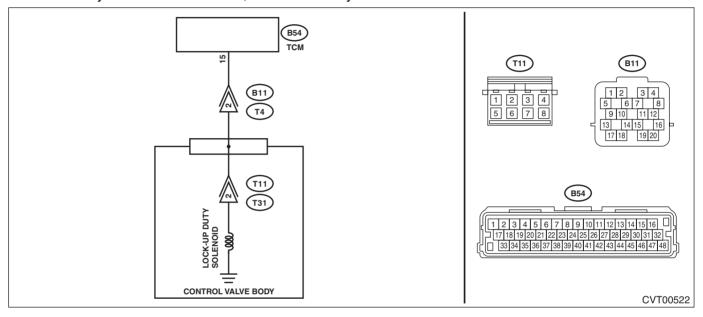
DTC DETECTING CONDITION:

- Detected when two consecutive driving cycles with fault occur.
- GENERAL DESCRIPTION <Ref. to GD(CVT)-57, DTC P2758 TORQUE CONVERTER CLUTCH PRESSURE CONTROL SOLENOID CONTROL CIRCUIT STUCK ON, Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

The engine stalls when the vehicle is stopped.

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK DTC. Read the DTC using Subaru Select Monitor.	Besides DTC P2758, is any of the DTCs P2747, P2763, P2764, U0100 and U0401 dis- played?	Perform the diagnosis according to DTCs other than P2758.	Go to step 2.
3	CHECK LOCK-UP DUTY SOLENOID (SYSTEM OPERATION CHECK MODE). 1) Turn the ignition switch to ON. 2) Using the Subaru Select Monitor, perform forced operation of the lock-up duty solenoid. <ref. check="" cvt(diag)-22,="" mode.="" operation="" system="" to=""> CHECK LOCK-UP DUTY SOLENOID.</ref.>		Go to step 5 . Go to step 7 .	Go to step 3 . Go to step 4 .
	 Turn the ignition switch to OFF. Disconnect the transmission connector. Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 2 — Transmission body: 	13.5 Ω ? (when cold)		
4	CHECK HARNESS. Check the continuity of transmission harness.	Is the harness normal? (Is it free from defects such as open circuit, power supply-output short or GND-output short cir- cuit, or poor contact?)	Go to step 7.	Repair the harness.

	Step	Check	Yes	No
5	CHECK TRANSMISSION FLUID. 1) Connect the transmission connector. 2) Check the amount of ATF. <ref. adjustment,="" cvt(tr690)-36,="" cvtf.="" to=""></ref.>	Is the ATF amount correct?	Go to step 6.	Adjust the amount of ATF. <ref. to<br="">CVT(TR690)-36, ADJUSTMENT, CVTF.></ref.>
6	CHECK TRANSMISSION FLUID. Check the condition of ATF. <ref. check,="" condition="" cvt(tr690)-40,="" cvtf.="" to=""></ref.>	Is the ATF OK?	Go to step 7.	Check according to the "Corrective action" of ATF (CVTF) "CONDI- TION CHECK". <ref. to<br="">CVT(TR690)-40, CONDITION CHECK, CVTF.></ref.>
7	CHECK INPUT SIGNAL FOR TCM. 1) Lift up the vehicle. 2) Start the engine. 3) Warm up until the ATF temperature reaches to 40 — 70°C (104 — 158°F). 4) Shift the select lever to "P" range. 5) Stabilize the engine speed at idle. 6) Read the data of «Actual secondary pressure» using Subaru Select Monitor.	Is the «Actual secondary pressure» 0.5 — 1.5 MPa?	Go to step 8.	Perform the diagnosis according to DTC P0841. <ref. (dtc).="" code="" cvt(diag)-68,="" diagnostic="" dtc="" oil="" p0841="" performance,="" pressure="" procedure="" secondary="" sensor="" to="" trouble="" with=""></ref.>
8	DRIVING CHECK FOR LOCK-UP CONDITION. 1) Perform the "Clear Memory Mode". <ref. clear="" cvt(diag)-17,="" memory="" mode.="" to=""> 2) Turn the ignition switch to OFF. 3) Start the engine. 4) Warm up until the ATF temperature exceeds 50°C. 5) Drive the vehicle for one minute or more while keeping such constant speed that "Lock Up Duty Ratio" is 0%, and "Front Wheel Speed" is 5 km/h (3 MPH) or less, which are displayed on the Subaru Select Monitor. 6) Turn the ignition switch to OFF. 7) Start the engine. 8) Perform the procedure in step 5) again. 9) Read the DTC using Subaru Select Monitor.</ref.>	Does the AT OIL TEMP light blink and is DTC P2758 dis- played? Or does the engine stall?	Perform the secondary pressure test. <ref. (line="" cvt(tr690)-49,="" pressure="" pressure)="" secondary="" test.="" to=""> When DTC other than P2758 is displayed, perform the diagnosis according to the DTC.</ref.>	Current condition is normal. Temporary oil pressure malfunction.

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

AX:DTC P2763 LOCK-UP DUTY SOLENOID CIRCUIT (HIGH)

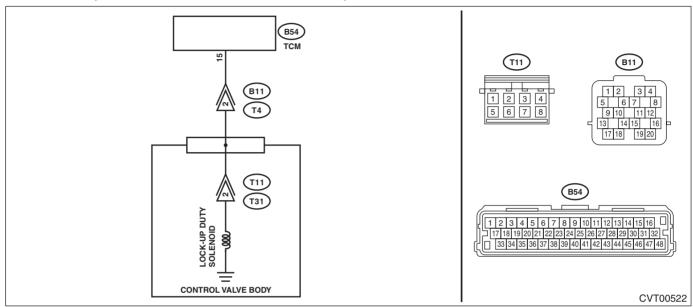
DTC DETECTING CONDITION:

- · Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-58, DTC P2763 LOCK-UP DUTY SOLENOID CIRCUIT (HIGH), Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

- No lock-up occurs.
- · Engine stalls.

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM and transmission connectors. 3) Measure the resistance between TCM connector and transmission connectors. Connector & terminal (B54) No. 15 — (B11) No. 2:	Is the resistance less than 1 Ω ?	Go to step 2.	Repair the open circuit of harness.
2	CHECK HARNESS. 1) Turn the ignition switch to ON. 2) Measure the voltage between TCM connector and chassis ground. Connector & terminal (B54) No. 15 (+) — Chassis ground (-):	Is the voltage approx. 0 V?	Go to step 3.	Repair the short circuit of harness.
3	CHECK LOCK-UP DUTY SOLENOID. Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 2 — Transmission body:	Is the resistance approx. 10 — 13.5 Ω ? (when cold)	Check for poor contact of connector, and if no fault is found, replace the TCM. <ref. (tcm).="" control="" cvt(tr690)-126,="" module="" to="" transmission=""></ref.>	Go to step 4.

	Step	Check	Yes	No
4	CHECK HARNESS INSIDE TRANSMISSION. CAUTION: Start work after ATF cools down. 1) Remove the transmission oil pan. 2) Check for the harness pinch, damage.	Is there any fault in the har- ness?	Replace the transmission harness.	Go to step 5.
5	 CHECK HARNESS INSIDE TRANSMISSION. 1) Disconnect the control valve body connector. 2) Turn the ignition switch to ON. 3) Measure the voltage between transmission connector and transmission body. Connector & terminal (T4) No. 2 (+) — Transmission body (-): 	Is the voltage approx. 0 V?	Replace the control valve body. <ref. body.="" control="" cvt(tr690)-112,="" to="" valve=""></ref.>	Replace the transmission harness.

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

AY: DTC P2764 LOCK-UP DUTY SOLENOID CIRCUIT (LOW)

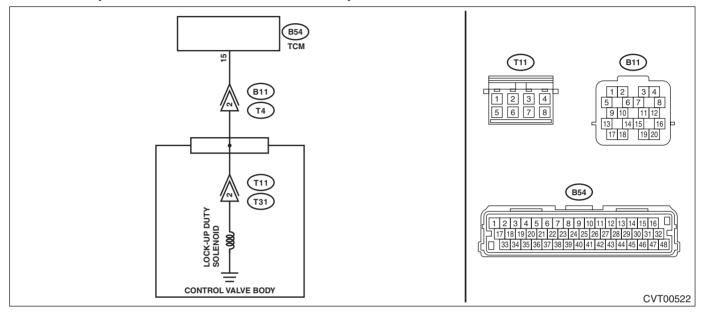
DTC DETECTING CONDITION:

- · Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-59, DTC P2764 LOCK-UP DUTY SOLENOID CIRCUIT (LOW), Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

No lock-up occurs.

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM and transmission connectors. 3) Measure the resistance between TCM connector and chassis ground. Connector & terminal (B54) No. 15 — Chassis ground:	Is the resistance 1 M Ω or more?	Go to step 2.	Repair the short circuit of harness.
2	CHECK LOCK-UP DUTY SOLENOID. Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 2 — Transmission body:	Is the resistance approx. 10 — 13.5 Ω ? (when cold)	Check for poor contact of connector, and if no fault is found, replace the TCM. <ref. (tcm).="" control="" cvt(tr690)-126,="" module="" to="" transmission=""></ref.>	Go to step 3.
3	CHECK HARNESS INSIDE TRANSMISSION. CAUTION: Start work after ATF cools down. 1) Remove the transmission oil pan. 2) Check for the harness pinch, damage.	Is there any fault in the harness?	Replace the transmission harness.	Go to step 4.

	Step	Check	Yes	No
4	CHECK HARNESS INSIDE TRANSMISSION. 1) Disconnect the control valve body connector.		•	Replace the trans- mission harness.
	 Measure the resistance between transmission connector and transmission body. 		CVT(TR690)-112, Control Valve	
	Connector & terminal (T4) No. 2 — Transmission body:		Body.>	

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

AZ:DTC P2769 LOCK-UP ON/OFF SOLENOID CIRCUIT (LOW)

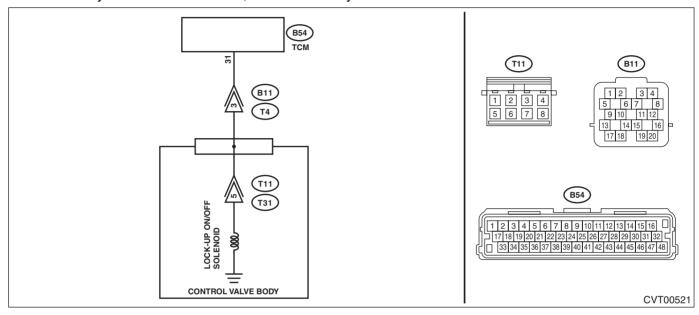
DTC DETECTING CONDITION:

- Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-60, DTC P2769 LOCK-UP ON/OFF SOLENOID CIRCUIT (LOW), Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

No lock-up occurs.

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM and transmission connectors. 3) Measure the resistance between TCM connector and chassis ground. Connector & terminal (B54) No. 31 — Chassis ground:	Is the resistance 1 M Ω or more?	Go to step 2.	Repair the short circuit of harness.
2	CHECK LOCK UP ON/OFF SOLENOID. Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 3 — Transmission body:	Is the resistance approx. 13 — 18.5 Ω ? (when cold)	Check for poor contact of connector, and if no fault is found, replace the TCM. <ref. (tcm).="" control="" cvt(tr690)-126,="" module="" to="" transmission=""></ref.>	Go to step 3.
3	CHECK HARNESS INSIDE TRANSMISSION. CAUTION: Start work after ATF cools down. 1) Remove the transmission oil pan. 2) Check for the harness pinch, damage.	Is there any fault in the harness?	Replace the transmission harness.	Go to step 4.

	Step	Check	Yes	No
4	CHECK HARNESS INSIDE TRANSMISSION. 1) Disconnect the control valve body connec-		•	Replace the trans- mission harness.
	tor. 2) Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 3 — Transmission body:		<ref. to<br="">CVT(TR690)-112, Control Valve Body.></ref.>	

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

BA:DTC P2770 LOCK-UP ON/OFF SOLENOID CIRCUIT (HIGH)

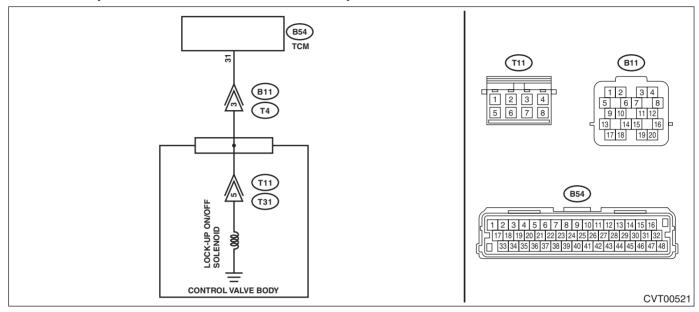
DTC DETECTING CONDITION:

- Immediately at fault recognition
- GENERAL DESCRIPTION <Ref. to GD(CVT)-61, DTC P2770 LOCK-UP ON/OFF SOLENOID CIRCUIT (HIGH), Diagnostic Trouble Code (DTC) Detecting Criteria.>

TROUBLE SYMPTOM:

No lock-up occurs.

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the TCM and transmission connectors. 3) Measure the resistance between TCM connector and transmission connectors. Connector & terminal (B54) No. 31 — (B11) No. 3:	Is the resistance less than 1 Ω ?	Go to step 2.	Repair the open circuit of harness.
2	CHECK HARNESS. 1) Turn the ignition switch to ON. 2) Measure the voltage between TCM connector and chassis ground. Connector & terminal (B54) No. 31 (+) — Chassis ground (-):	Is the voltage approx. 0 V?	Go to step 3.	Repair the short circuit of harness.
3	CHECK LOCK UP ON/OFF SOLENOID. Measure the resistance between transmission connector and transmission body. Connector & terminal (T4) No. 3 — Transmission body:	Is the resistance approx. 13 — 18.5 Ω ? (when cold)	Check for poor contact of connector, and if no fault is found, replace the TCM. <ref. (tcm).="" control="" cvt(tr690)-126,="" module="" to="" transmission=""></ref.>	Go to step 4.
4	CHECK HARNESS INSIDE TRANSMISSION. CAUTION: Start work after ATF cools down. 1) Remove the transmission oil pan. 2) Check for the harness pinch, damage.	Is there any fault in the har- ness?	Replace the trans- mission harness.	Go to step 5.

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

	Step	Check	Yes	No
5	 CHECK HARNESS INSIDE TRANSMISSION. 1) Disconnect the control valve body connector. 2) Turn the ignition switch to ON. 3) Measure the voltage between transmission connector and transmission body. Connector & terminal (T4) No. 3 (+) — Transmission body (-): 	Is the voltage approx. 0 V?	•	Replace the transmission harness.

BB:DTC U0073 CONTROL MODULE COMMUNICATION BUS OFF

NOTE:

Refer to "LAN SYSTEM (DIAGNOSTICS)" for diagnostic procedure. < Ref. to LAN(diag)-2, Basic Diagnostic Procedure. >

BC:DTC U0100 LOST COMMUNICATION WITH ECM/PCM "A"

NOTE:

Refer to "LAN SYSTEM (DIAGNOSTICS)" for diagnostic procedures. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>

BD:DTC U0122 LOST COMMUNICATION WITH VEHICLE DYNAMICS CONTROL MODULE

NOTE:

Refer to "LAN SYSTEM (DIAGNOSTICS)" for diagnostic procedures. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>

BE:DTC U0140 LOST COMMUNICATION WITH BODY CONTROL MODULE

NOTE

Refer to "LAN SYSTEM (DIAGNOSTICS)" for diagnostic procedures. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>

BF:DTC U0155 LOST COMMUNICATION WITH INSTRUMENT PANEL CLUSTER (IPC) CONTROL MODULE

NOTE:

Refer to "LAN SYSTEM (DIAGNOSTICS)" for diagnostic procedures. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>

BG:DTC U0164 LOST COMMUNICATION WITH HVAC CONTROL MODULE

NOTE:

Refer to "LAN SYSTEM (DIAGNOSTICS)" for diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>

BH:DTC U0401 INVALID DATA RECEIVED FROM ECM/PCM "A"

NOTE:

Refer to "LAN SYSTEM (DIAGNOSTICS)" for diagnostic procedures. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>

BI: DTC U0416 INVALID DATA RECEIVED FROM VEHICLE DYNAMICS CONTROL MODULE

NOTE:

Refer to "LAN SYSTEM (DIAGNOSTICS)" for diagnostic procedures. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

BJ:DTC U0422 INVALID DATA RECEIVED FROM BODY CONTROL MODULE

NOTE

Refer to "LAN SYSTEM (DIAGNOSTICS)" for diagnostic procedures. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>

BK:DTC U0423 INVALID DATA RECEIVED FROM INSTRUMENT PANEL CLUSTER CONTROL MODULE

NOTE:

Refer to "LAN SYSTEM (DIAGNOSTICS)" for diagnostic procedures. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>

BL:DTC U0424 INVALID DATA RECEIVED FROM HVAC CONTROL MODULE

NOTE:

Refer to "LAN SYSTEM (DIAGNOSTICS)" for diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>