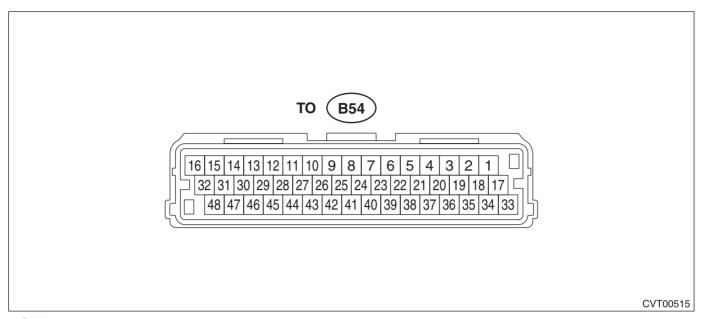
5. Transmission Control Module (TCM) I/O Signal

A: ELECTRICAL SPECIFICATION



NOTE:

Measure after warming up.

Item	Termi- nal No.	Measuring condition	Measurement value	Resistance between terminal and chassis ground	Remarks
Backup power supply	34	_	10 — 13 V	_	
Ignition power supply	41	_	10 — 13 V	_	
Main power supply	8	_	10 — 13 V	_	
Main power supply	24	_	10 — 13 V	_	
Main power supply	40	_	10 — 13 V	_	
Manual mode	20	Manual mode switch ON	Less than 1 V	_	
switch		Manual mode switch OFF	8 V or more	_	
Manual mode UP switch	19	Manual mode UP switch ON	Less than 1 V	_	
		Manual mode UP switch OFF	8 V or more	_	
Manual mode DOWN switch	18	Manual mode DOWN switch ON	Less than 1 V	_	
		Manual mode DOWN switch OFF	8 V or more	_	
0	29	Stop light switch ON	8 V or more	_	
Stop light switch		Stop light switch OFF	Less than 1 V	_	
P range switch	38	P range	Less than 1 V	_	
		Except for P range	8 V or more	_	
R range switch	37	R range	Less than 1 V	_	
		Except for R range	8 V or more	_	
N range switch	36	N range	Less than 1 V	_	
		Except for N range	8 V or more	_	
D range switch	35	D range	Less than 1 V	_	
		Except for D range	8 V or more	_	

Transmission Control Module (TCM) I/O Signal

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

Item	Termi- nal No.	Measuring condition	Measurement value	Resistance between terminal and chassis ground	Remarks
ATF temperature sensor	6	ATF temperature at 20°C (68°F)	Approx. 2.6 V	Approx. 2.6 kΩ	
		ATF temperature at 80°C (176°F)	Approx. 0.7 V	Approx. 370 Ω	
ATF temperature sensor GND	1	Always	Approx. 0 V	_	
Secondary pres- sure sensor power supply output	33	Ignition switch ON	5 V	_	
Secondary pressure sensor	5	Ignition switch ON, engine OFF	Approx. 0.5 V (0 MPa)	_	Value increases with increase of engine load. (0.5 — 4.5 V)
		Ignition switch ON, engine ON	Approx. 1.0 V (1.0 MPa)	_	
Secondary pres- sure sensor GND	2	Always	Approx. 0 V	_	
Primary speed sensor	14	While driving	0 or 5 V	_	Refer to the wave- form (sensor)
Secondary speed sensor	13	While driving	0 or 5 V	_	Refer to the wave- form (sensor)
Front wheel speed sensor	12	Engine ON, "P" or "N" range	0 or 5 V	_	Refer to the wave- form (sensor)
Rear wheel speed sensor	11	Engine ON, "P" or "N" range	0 or 5 V	_	Refer to the wave- form (sensor)
Self shut output	25	For three seconds after ignition switch ON and OFF	Less than 1 V	_	
		Ignition switch OFF	8 V or more		
F&R solenoid	16	Engine ON	Refer to the wave- form (solenoid (1))	Approx. 4 — 6 Ω	Resistance value at 20°C (68°F). Value is higher as the temperature increase.
Secondary sole- noid	32	Engine ON	Refer to the wave- form (solenoid (2))	Approx. 5 — 7 Ω	Resistance value at 20°C (68°F). Value is higher as the temperature increase.
Primary UP sole- noid	47	Engine ON, while UP shifting	Refer to the wave- form (solenoid (3))	Approx. 10 — 13.5 $Ω$	Resistance value at 20°C (68°F). Value is higher as the temperature increase.
Primary DOWN solenoid	30	Engine ON, while DOWN shifting	Refer to the wave- form (solenoid (4))	Approx. 10 — 13.5 Ω	Resistance value at 20°C (68°F). Value is higher as the temperature increase.
Lock-up duty sole- noid	15	Lock-up ON	Refer to the wave- form (solenoid (5))	Approx. 10 — 13.5 Ω	Resistance value at 20°C (68°F). Value is higher as the temperature increase.
AWD solenoid	48	Engine ON, "P" or "N" range Engine ON, "D" range, brake ON	Refer to the wave- form (solenoid (6)) Refer to the wave- form (solenoid (7))	Approx. 2 — 4.5 Ω	Resistance value at 20°C (68°F). Value is higher as the temperature increase.
Lock-up ON/OFF solenoid	31	With lock-up OFF With lock-up ON and in "R" range	Less than 1 V Battery voltage or higher	Approx. 13 — 18.5 Ω	Resistance value at 20°C (68°F). Value is higher as the temperature increase.

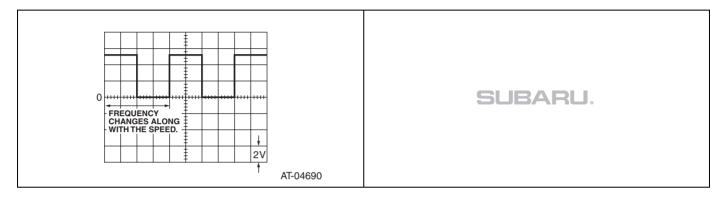
Transmission Control Module (TCM) I/O Signal

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

Item	Termi- nal No.	Measuring condition	Measurement value	Resistance between terminal and chassis ground	Remarks
CAN communica- tion line (+)	43	_	_	_	
CAN communication line (-)	44	_	_		
GND	26	Always	Approx. 0 V		
GND	42	Always	Approx. 0 V	_	

B: WAVEFORM

1. SENSOR



2. SOLENOID

