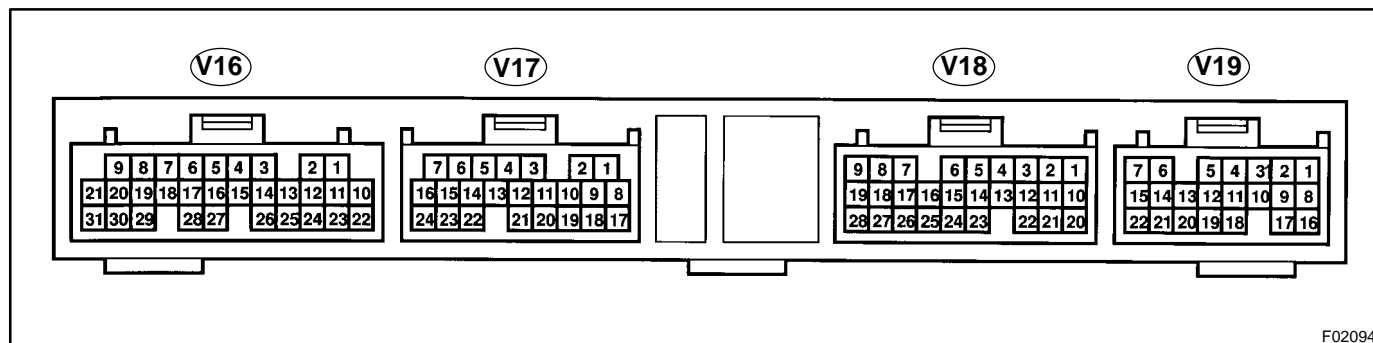


# TERMINALS OF ECU



F02094

Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
SA1 (V16 - 2) - GND (V16 - 6, 31, V19 - 8, 16)	B-R ↔ W-B	IG switch ON, ABS warning light OFF	10 - 14
SA2 (V16 - 3) - GND (V16 - 6, 31, V19 - 8, 16)	W-L ↔ W-B	IG switch ON, ABS warning light OFF	10 - 14
SA3 (V16 - 4) - GND (V16 - 6, 31, V19 - 8, 16)	W-R ↔ W-B	IG switch ON, ABS warning light OFF	10 - 14
STR (V16 - 5) - GND (V16 - 6, 31, V19 - 8, 16)	Y-G ↔ W-B	IG switch ON, ABS warning light OFF	10 - 14
SFLR (V16 - 7) - GND (V16 - 6, 31, V19 - 8, 16)	Y-R ↔ W-B	IG switch ON, ABS warning light OFF	10 - 14
SRRH (V16 - 8) - GND (V16 - 6, 31, V19 - 8, 16)	G-Y ↔ W-B	IG switch ON, ABS warning light OFF	10 - 14
SRRR (V16 - 9) - GND (V16 - 6, 31, V19 - 8, 16)	LG ↔ W-B	IG switch ON, ABS warning light OFF	10 - 14
VCM (V16 - 10) - GND (V16 - 6, 31, V19 - 8, 16)	B ↔ W-B	IG switch ON	4.5 - 5.5
PH (V16 - 11) - GND (V16 - 6, 31, V19 - 8, 16)	LG-B ↔ W-B	IG switch ON, pressure switch (PH) ON	Below 0.9
		IG switch ON, pressure switch (PH) OFF	5 - 8
FR+ (V16 - 14) - FR- (V16 - 13)	LG ↔ L	IG switch ON, right front wheel is turned slowly	Pulse generation
FL+ (V16 - 16) - FL- (V16 - 15)	W ↔ R	IG switch ON, left front wheel is turned slowly	Pulse generation
SR (V16 - 19) - R1+ (V16 - 1)	G-B ↔ R-B	IG switch ON, ABS warning light OFF	10 - 14
SFLH (V16 - 21) - GND (V16 - 6, 31, V19 - 8, 16)	L-B ↔ W-B	IG switch ON, ABS warning light OFF	10 - 14
PMC (V16 - 22) - E2 (V16 - 23)	W ↔ R	IG switch ON, stop light switch released	0.3 - 0.7
MSS (V16 - 24) - GND (V16 - 6, 31, V19 - 8, 16)	BR ↔ W-B	IG switch OFF	Continuity
MMT (V16 - 27) - GND (V16 - 6, 31, V19 - 8, 16)	P-B ↔ W-B	IG switch ON, (Motor relay is OFF)	Below 1.5
MT+ (V16 - 28) - MT- (V16 - 18)	GR ↔ O	IG switch ON, (Motor relay is OFF)	Below 1.5
MR1 (V16 - 29) - R1+ (V16 - 1)	L-B ↔ R-B	IG switch ON, hydraulic brake booster pump motor running	10 - 14
MR2 (V17 - 1) - R2+ (V17 - 2)	P-B ↔ Y-B	IG switch ON, hydraulic brake booster pump motor running	10 - 14

SRLR (V17 - 3) - GND (V16 - 6, 31, V19 - 8, 16)	R ↔ W-B	IG switch ON, ABS warning light OFF	10 - 14
SRLH (V17 - 4) - GND (V16 - 6, 31, V19 - 8, 16)	L ↔ W-B	IG switch ON, ABC warning light OFF	10 - 14
SFRR (V17 - 5) - GND (V16 - 6, 31, V19 - 8, 16)	Y ↔ W-B	IG switch ON, ABS warning light OFF	10 - 14
SFRH (V17 - 6) - GND (V16 - 6, 31, V19 - 8, 16)	G ↔ W-B	IG switch ON, ABS warning light OFF	10 - 14
PL (V17 - 8) - GND (V16 - 6, 31, V19 - 8, 16)	L-W ↔ W-B	IG switch ON, pressure switch ON	3 - 5
		IG switch ON, pressure switch OFF	7 - 11
AST (V17 - 10) - GND (V16 - 6, 31, V19 - 8, 16)	LG-B ↔ W-B	IG switch ON, ABS warning light OFF	10 - 14
IG2 (V17 - 18) - GND (V16 - 6, 31, V19 - 8, 16)	GR-B ↔ W-B	IG switch ON	10 - 14
VGS (V18 - 1) - GGND (V18 - 21)	G ↔ B	IG switch ON	4.5 - 5.5
EXI*1 (V18 - 3) - GND (V16 - 6, 31, V19 - 8, 16)	R-B ↔ W-B	IG switch ON, center diff. lock switch ON	Below 2.0
		IG switch ON, center diff. lock switch OFF	10 - 14
VSCW (V18 - 4) - GND (V16 - 6, 31, V19 - 8, 16)	V-W ↔ W-B	IG switch ON, VSC TRAC warning light ON	Below 2.0
		IG switch ON, VSC TRAC warning light OFF	10 - 14
BRL (V18 - 5) - GND (V16 - 6, 31, V19 - 8, 16)	O ↔ W-B	IG switch ON, brake warning light ON	10 - 14
		IG switch ON, brake warning light OFF	Below 2.0
IND (V18 - 6) - GND (V16 - 6, 31, V19 - 8, 16)	R-W ↔ W-B	IG switch ON, SLIP indicator light ON	Below 2.0
		IG switch ON, SLIP indicator light OFF	10 - 14
WT (V18 - 7) - GND (V16 - 6, 31, V19 - 8, 16)	L-W ↔ W-B	IG switch ON, VSC (TRAC) OFF indicator light ON	Below 2.0
		IG switch ON, VSC (TRAC) OFF indicator light OFF	10 - 14
EXI3*1 (V18 - 8) - GND (V16 - 6, 31, V19 - 8, 16)	B-L ↔ W-B	IG switch ON, ADD switch ON (4WD)	Below 2.0
		IG switch ON, ADD switch OFF (2WD)	10 - 14
VYS (V18 - 9) - GND (V16 - 6, 31, V19 - 8, 16)	R ↔ W-B	IG switch ON	4.5 - 5.5
GL2 (V18 - 10) - GGND (V18 - 21)	R ↔ LB	IG switch ON, vehicle is placed on the horizontal surface	2.0 - 3.0
GSS (V18 - 11) - GND (V16 - 6, 31, V19 - 8, 16)	BR ↔ W-B	IG switch OFF	Continuity
SS1+ (V18 - 14) - SS1- (V18 - 23)	P ↔ V	Engine idling, steering wheel is turned slowly.	Pulse generation
SP1 (V18 - 16) - GND (V16 - 6, 31, V19 - 8, 16)	GR-L ↔ W-B	Vehicle drive at about 20 km/h (12mph)	Pulse generation
EXI4*1 (V18 - 17) - GND (V16 - 6, 31, V19 - 8, 16)	L-R ↔ W-B	IG switch ON, transfer in L4 position	Below 2.0
		IG switch ON, transfer in except L4 position	10 - 14
YSS (V18 - 18) - GND (V16 - 6, 31, V19 - 8, 16)	BR-B ↔ W-B	IG switch OFF	Continuity
YD (V18 - 19) - GYAW (V18 - 27)	Y ↔ B	IG switch ON, ABS warning light OFF	4.5 - 5.3
GGND (V18 - 21) - GND (V16 - 6, 31, V19 - 8, 16)	B ↔ W-B	IG switch OFF	Continuity
GL1 (V18 - 22 - GGND (V18 - 21)	W ↔ LB	IG switch ON, ABS warning light OFF	2.0 - 3.0

## DIAGNOSTICS - ABS WITH EBD &amp; BA &amp; TRAC &amp; VSC SYSTEM

CD* <sup>1</sup> (V18 - 24) - GND (V16 - 6, 31, V19 - 8, 16)	P-G ↔ W-B	IG switch ON, center diff. lock indicator ON	Below 2.0
		IG switch ON, center diff. lock indicator OFF	10 - 14
TF* <sup>1</sup> (V18 - 25) - GND (V16 - 6, 31, V19 - 8, 16)	B-R ↔ W-B	IG switch ON, transfer in N position	Below 2.0
		IG switch ON, transfer in except N position	10 - 14
CSW* <sup>2</sup> (V18 - 26) - GND (V16 - 6, 31, V19 - 8, 16)	L ↔ W-B	IG switch ON, TRAC OFF switch OFF	10 - 14
		IG switch ON, TRAC OFF switch ON	Below 1.5
YAW (V18 - 28) - GYAW (V18 - 27)	W ↔ B	IG switch ON, ABS warning light OFF	2.42 - 2.58
WA (V19 - 1) - GND (V16 - 6, 31, V19 - 8, 16)	B-L ↔ W - B	IG switch ON, ABS warning light ON	10 - 14
		IG switch ON, ABS warning light OFF	Below 2.0
NEO (V19 - 2) - GND (V16 - 6, 31, V19 - 8, 16)	V-W ↔ W - B	Engine idling	Pulse generation
P (V19 - 3) - GND (V16 - 6, 31, V19 - 8, 16)	L-Y ↔ W-B	IG switch ON, PNP switch in P position	10 - 14
		IG switch ON, PNP switch in except P position	Below 1.5
TRC+ (V19 - 4) - TRC- (V19 - 17)	BR-Y ↔ Y-G	Engine idling	Pulse generation
ENG+ (V19 - 6) - ENG- (V19 - 5)	L ↔ P	Engine idling	Pulse generation
IG1 (V19 - 7) - GND (V16 - 6, 31, V19 - 8, 16)	Y ↔ W-B	IG switch ON	10 - 14
PKB (V19 - 9) - GND (V16 - 6, 31, V19 - 8, 16)	R-W ↔ W-B	IG switch ON, parking brake switch ON	Below 1.5
		IG switch OFF, parking brake switch OFF	10 - 14
R (V19 - 10) - GND (V16 - 6, 31, V19 - 8, 16)	W-L ↔ W-B	IG switch ON, PNP switch in R position	10 - 14
		IG switch ON, PNP switch in except R position	Below 1.5
Ts (V19 - 11) - GND (V16 - 6, 31, V19 - 8, 16)	G-R ↔ W-B	IG switch ON and terminals Ts-E <sub>1</sub> of DLC1 connected	Below 1.5
		IG switch ON and terminals Ts-E <sub>1</sub> of DLC1 not connected	10 - 14
Tc (V19 - 12) - GND (V16 - 6, 31, V19 - 8, 16)	GR ↔ W-B	IG switch ON and terminals Tc-E <sub>1</sub> of DLC1 connected	Below 1.5
		IG switch ON and terminals Tc-E <sub>1</sub> of DLC1 not connected	10 - 14
STP (V19 - 13) - GND (V16 - 6, 31, V19 - 8, 16)	G-W ↔ W-B	Stop light switch OFF	Below 1.5
		Stop light switch ON	8 - 14
DG (V19 - 15) - GND (V16 - 6, 31, V19 - 8, 16)	W ↔ W-B	IG switch ON	10 - 14
RR+ (V19 - 19) - RR- (V19 - 18)	B ↔ W	IG switch ON, right rear wheel is turned slowly	Pulse generation
RL+ (V19 - 21) - RL- (V19 - 20)	R ↔ G	IG switch ON, left rear wheel is turned slowly	Pulse generation
BZ (V19 - 22) - GND (V16 - 6, 31, V19 - 8, 16)	L-B ↔ W-B	IG switch ON, VSC buzzer is sounded	Below 1.0 ↔ 10 - 14
		IG switch ON, VSC buzzer is not sounded	10 - 14

\*1: 4WD

\*2: 2WD