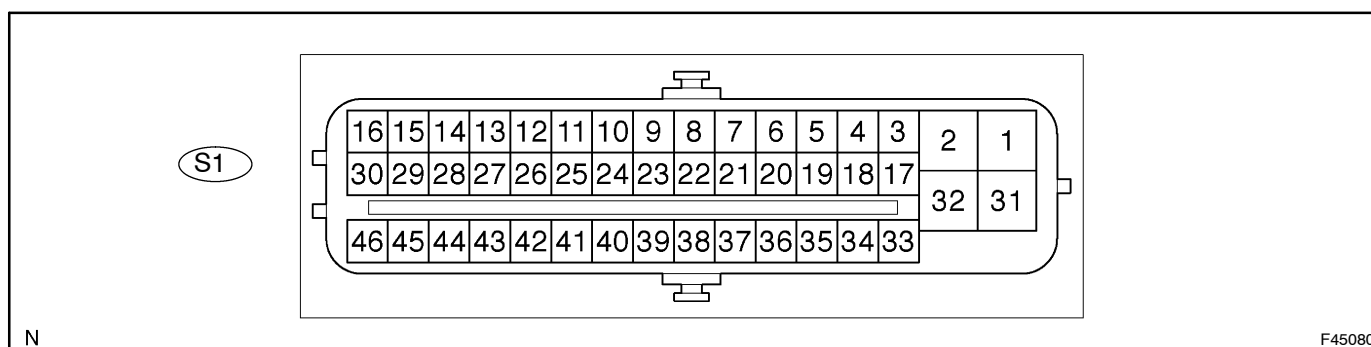


TERMINALS OF ECU

SKID CONTROL ECU



Symbols (Terminals No.)	Wiring Color	Terminal Description	Condition	Specified Condition
BM (S1-2) – GND (S1-1, 32)	B-L – W-B, W-B	Motor relay test input	IG switch ON, pump motor running	10 to 14 V
FR+ (S1-3) – FR- (S1-17)	Y-B – W-L	Front RH wheel speed signal input	IG switch ON, slowly turn right front wheel	Pulse generation
RR+ (S1-5) – RR- (S1-19)	L – Y	Rear RH wheel speed signal input	IG switch ON, slowly turn right rear wheel	Pulse generation
TRC+ (S1-8) – TRC- (S1-22)	W-R – W-L	ECM communication output	IG switch ON	Pulse generation
ENG+ (S1-9) – ENG- (S1-23)	V – L-G	ECM communication input	IG switch ON	Pulse generation
NEO (S1-10) – GND (S1-1, 32)	V-W – W-B, W-B	Engine revolution signal input	Engine idling	Pulse generation
CANH (S1-11) – CANL (S1-25)	B – W	CAN communication line	IG switch OFF	54 to 67 Ω
SP1 (S1-12) – GND (S1-1, 32)	W-G – W-B, W-B	Speed signal output	Vehicle drives at about 20 km/h (12 mph)	Pulse generation
D/G (S1-13) – GND (S1-1, 32)	W – W-B, W-B	Diagnosis tester communication line	IG switch ON	10 to 14 V
MRF (S1-14) – R+ (S1-45)	O – R-L	Fail safe motor relay output	IG switch ON	8 to 14 V
MR (S1-15) – R+ (S1-45)	G – R-L	Motor relay output	IG switch ON, pump motor running	8 to 14 V
FL+ (S1-18) – FL- (S1-4)	P – V	Front LH wheel speed signal input	IG switch ON, slowly turn left front wheel	Pulse generation
RL+ (S1-20) – RL- (S1-6)	W – B	Rear LH wheel speed signal input	IG switch ON, slowly turn left rear wheel	Pulse generation
P* (S1 – 21) – GND (S1-1, 32)	B-O – W-B, W-B	P range switch input	IG switch ON, P range switch ON	8 to 14 V
P* (S1 – 21) – GND (S1-1, 32)	B-O – W-B, W-B	P range switch input	IG switch ON, P range switch OFF	Below 2.0 V
TS (S1-24) – GND (S1-1, 32)	L-R – W-B, W-B	Sensor check input	IG switch ON	10 to 14 V
STP (S1-27) – GND (S1-1, 32)	G-W – W-B, W-B	Stop lamp switch input	Stop lamp switch ON (Brake pedal pushed)	8 to 14 V
STP (S1-27) – GND (S1-1, 32)	G-W – W-B, W-B	Stop lamp switch input	Stop lamp switch OFF (Brake pedal released)	Below 1.5 V
PKB (S1-28) – GND (S1-1, 32)	R-W – W-B, W-B	Parking brake switch input	IG switch ON, parking brake switch ON	Below 1.5 V
PKB (S1-28) – GND (S1-1, 32)	R-W – W-B, W-B	Parking brake switch input	IG switch ON, parking brake switch OFF	10 to 14 V
WA (S1-29) – GND (S1-1, 32)	Y-G – W-B, W-B	ABS warning lamp output	IG switch ON, ABS warning lamp ON	6 to 11 V

DIAGNOSTICS – ABS WITH EBD & BA & TRC & VSC SYSTEM

WA (S1-29) – GND (S1-1, 32)	Y-G – W-B, W-B	ABS warning lamp output	IG switch ON, ABS warning lamp OFF	Below 2.0 V
BZ (S1-30) – GND (S1-1, 32)	G-Y – W-B, W-B	Buzzer output	IG switch ON, skid control buzzer sounds	Below 1.0 V
BZ (S1-30) – GND (S1-1, 32)	G-Y – W-B, W-B	Buzzer output	IG switch ON, skid control buzzer does not sound	10 to 14 V
+BS (S1-31) – GND (S1-1, 32)	B – W-B, W-B	Solenoid relay power supply	Always	10 to 14 V
IND (S1-34) – GND (S1-1, 32)	L-O – W-B, W-B	SLIP Indicator lamp output	IG switch ON, Slip indicator lamp ON	Below 2.0 V
IND (S1-34) – GND (S1-1, 32)	L-O – W-B, W-B	SLIP Indicator lamp output	IG switch ON, Slip indicator lamp OFF	8 to 14 V
WT (S1-35) – GND (S1-1, 32)	BR – W-B, W-B	TRC OFF indicator lamp output	IG switch ON, TRC OFF Indicator lamp ON	Below 2.0 V
WT (S1-35) – GND (S1-1, 32)	BR – W-B, W-B	TRC OFF indicator lamp output	IG switch ON, TRC OFF Indicator lamp OFF	8 to 14 V
VSCW (S1-36) – GND (S1-1, 32)	B-W – W-B, W-B	VSC warning lamp output	IG switch ON, VSC warning lamp ON	Below 2.0 V
VSCW (S1-36) – GND (S1-1, 32)	B-W – W-B, W-B	VSC warning lamp output	IG switch ON, VSC warning lamp OFF	8 to 14 V
WFSE (S1-42) – GND (S1-1, 32)	GR – W-B, W-B	WFSE input	IG switch ON	10 to 14 V
CSW (S1-43) – GND (S1-1, 32)	L-Y – W-B, W-B	TRC OFF switch input	TRC OFF switch OFF	10 to 14 V
BRL (S1-44) – GND (S1-1, 32)	B-R – W-B, W-B	Brake warning lamp output	IG switch ON, BRAKE warning lamp ON	6 to 11 V
BRL (S1-44) – GND (S1-1, 32)	B-R – W-B, W-B	Brake warning lamp output	IG switch ON, BRAKE warning lamp OFF	Below 2.0 V
R+ (S1-45) – GND (S1-1, 32)	R-L – W-B, W-B	Power supply for motor relay	IG switch ON	10 to 14 V
IG1 (S1-46) – GND (S1-1, 32)	B-Y – W-B, W-B	IG1 power supply	IG switch ON	10 to 14 V

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