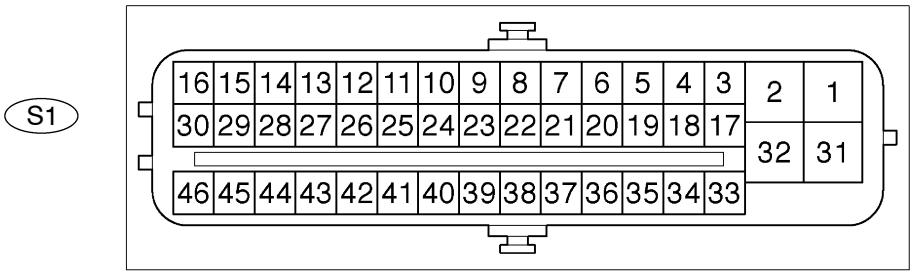
0542S–07

TERMINALS OF ECU



N F45080

Symbols (Terminals No.)	Wiring Color	Terminal Description	Condition	Specified Condition
BM (S1–2) – GND (S1–1)	W–L – W–B	Motor relay test input	IG switch ON, pump motor running	10 to 14 V
FR+ (S1–3) – FR– (S1–17)	R–Y – LG	Front RH wheel speed signal input	IG switch ON, slowly turn right front wheel	AC generation
FSW+ (S1–7) – GND (S1–32)	G–W – W–B	FSW switch input	IG switch ON, brake pedal released	2 to 4 V
FL+ (S1–18) – FL– (S1–4)	O – P	Front LH wheel speed signal input	IG switch ON, slowly turn left front wheel	AC generation
RR+ (S1–5) – RR– (S1–19)	Y – BR	Rear RH wheel speed signal input	IG switch ON, slowly turn right rear wheel	AC generation
RL+ (S1–20) – RL– (S1–6)	Y–G – G	Rear LH wheel speed signal input	IG switch ON, slowly turn left rear wheel	AC generation
TRC+ (S1–8) – TRC– (S1–22)	G–B – Y–B	ECM communication output	IG switch ON	Pulse generation
ENG+ (S1–9) – ENG– (S1–23)	W–L – W–G	ECM communication input	IG switch ON	Pulse generation
NEO (S1–10) – GND (S1–32)	V – W–B	Engine rpm signal input	Engine idling	Pulse generation
CANH (S1–11) – CANL (S1–25)	B – W	CAN communication line	IG switch OFF	54 to 67 Ω
D/G (S1–13) – GND (S1–32)	GR–B – W–B	Diagnosis tester communication line	IG switch ON	10 to 14 V
SP1 (S1–12) – GND (S1–32)	BR–R – W–B	Speed signal output	Vehicle drives at about 20 km/h (12 mph)	Pulse generation
MRF (S1–14) – R+ (S1–45)	G–R – B–O	Fail safe motor relay output	IG switch ON	10 to 14 V
MR (S1–15) – R+ (S1–45)	LG – B–O	Motor relay output	IG switch ON, pump motor running	10 to 14 V
+BS (S1–31) – GND (S1–32)	B – W–B	Solenoid relay power supply	Always	10 to 14 V
TS (S1–24) – GND (S1–32)	P–B – W–B	Sensor check input	IG switch ON	10 to 14 V
STP (S1–27) – GND (S1–32)	G–Y – W–B	Stop light switch input	Stop light switch ON (Brake pedal pushed)	8 to 14 V
			Stop light switch OFF (Brake pedal released)	Below 1.5 V
PKB (S1–28) – GND (S1–32)	R–W – W–B	Parking brake switch input	IG switch ON, parking brake switch ON	Below 1.5 V
			IG switch ON, parking brake switch OFF	10 to 14 V
WA (S1–29) – GND (S1–32)	R–L – W–B	ABS warning light output	IG switch ON, ABS warning light ON	6 to 11 V
			IG switch ON, ABS warning light OFF	Below 2.0 V

BZ (S1–30) – GND (S1–32)	BR–W – W–B	Buzzer output	IG switch ON, VSC buzzer sounds	Below 1.0 ↔ 10 to 14 V
			IG switch ON, VSC buzzer does not sound	10 to 14 V
VSCW (S1–36) – GND (S1–32)	L–Y – W–B	VSC warning light output	IG switch ON, VSC warning light ON	Below 2.0 V
BRL (S1–44) – GND (S1–32)	LG–B – W–B	Brake warning light output	IG switch ON, BRAKE warning light ON	6 to 11 V
			IG switch ON, BRAKE warning light OFF	Below 2.0 V
R+ (S1–45) – GND (S1–12)	B–O – W–B	Power supply for motor relay	IG switch ON	10 to 14 V
IG1 (S1–46) – GND (S1–32)	B–R – W–B	IG1 power supply	IG switch ON	10 to 14 V