TERMINALS OF ECM

Y   C124513E01

HINT:
The standard voltage of each ECM terminal is shown in the table below.
In the table, first follow the information under "Condition". Look under "Symbols (Terminal No.)" for the terminals to be inspected. The standard voltage between the terminals is shown under "Specified Condition".
Use the illustration above as a reference for the ECM terminals.

| Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
STP (E8-15) - E1 (E6-1)	L - BR	Stop light switch signal	Brake pedal is depressed	7.5 to 14 V
			Brake pedal is released	Below 1.5 V
L (E7-9) - E1 (E6-1)	G-Y - BR	L shift position switch signal	Ignition switch ON and shift lever L position	10 to 14 V
			Ignition switch ON and shift lever other than L position	Below 1 V
2 (E7-10) - E1 (E6-1)	R-Y - BR	2 shift position switch signal	Ignition switch ON and shift lever 2 and L positions	10 to 14 V
			Ignition switch ON and shift lever other than 2 and L positions	Below 1 V
R (E7-11) - E1 (E6-1)	R-W - BR	R shift position switch signal	Ignition switch ON and shift lever R position	10 to 14 V
			Ignition switch ON and shift lever other than R position	Below 1 V
3 (E7-19) - E1 (E6-1)	Y - BR	3 shift position switch signal	Ignition switch ON and shift lever 3 position	10 to 14 V
			Ignition switch ON and shift lever other than 3 position	Below 1 V
4 (E7-20) - E1 (E6-1)	B - BR	4 shift position switch signal	Ignition switch ON and shift lever 4 position	10 to 14 V
			Ignition switch ON and shift lever other than 4 position	Below 1 V
D (E7-21) - E1 (E6-1)	L-B - BR	D shift position switch signal	Ignition switch ON and shift lever D and 4 positions	10 to 14 V
			Ignition switch ON and shift lever other than D and 4 positions	Below 1 V
L4 (E6-13) - E1 (E6-1)	Y-B - BR	Transfer L4 shift position switch signal	Ignition switch ON and transfer shift lever L position	Below 1 V
			Ignition switch ON and transfer shift lever other than L position	10 to 14 V

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| Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
NSW (E5-8) - E1 (E6-1)	V - BR	Park or neutral shift position switch signal	Ignition switch ON and shift lever P and N positions	Below 2 V
			Ignition switch ON and shift lever other than P and N positions	10 to 14 V
SR (E5-9) - E1 (E6-1)	G - BR	SR solenoid signal	5th gear	10 to 14 V
			1st gear	Below 1 V
S2 (E5-10) - E1 (E6-1)	L-W - BR	S2 solenoid signal	2nd or 3rd gear	10 to 14 V
			1st, 4th or 5th gear	Below 1 V
S1 (E5-11) - E1 (E6-1)	W-G - BR	S1 solenoid signal	1st or 2nd gear	10 to 14 V
			3rd, 4th or 5th gear	Below 1 V
SLT+ (E5-13) - SLT- (E5-12)	G-B - R-B	SLT solenoid signal	Engine is idling	Pulse generation (See waveform 1)
SLU+ (E5-15) - SLU- (E5-14)	Y-B - LG	SLU solenoid signal	5th (lock-up) gear	Pulse generation (See waveform 2)
SL2+ (E5-17) - SL2- (E5-16)	W-L - G-R	SL2 solenoid signal	Engine idling speed	Pulse generation (See waveform 3)
SL1+ (E5-19) - SL1- (E5-18)	G-W - P-L	SL1 solenoid signal	Engine idling speed	Pulse generation (See waveform 4)
THO2 (E5-32) - E2 (E4-28)	GR - BR	No. 2 ATF temperature sensor signal	ATF temperature: 115°C (239°F) or more	Below 1.5 V
THO1 (E5-24) - E2 (E4-28)	Y-B - BR	No. 1 ATF temperature sensor signal	ATF temperature: 115°C (239°F) or more	Below 1.5 V
SP2+ (E5-34) - SP2- (E5-26)	L-R - R	Speed sensor (SP2) signal	Vehicle speed 12 mph (20 km/h)	Pulse generation (See waveform 5)
NT+ (E5-35) - NT- (E5-27)	W-R - Y-R	Speed sensor (NT) signal	Engine is idling	Pulse generation (See waveform 6)

1. Waveform 1
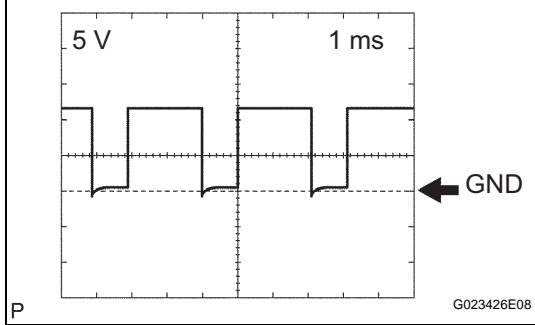
Item	Condition
Terminal	SLT+ - SLT-
Tool setting	5 V/DIV, 1 ms/DIV
Vehicle condition	Engine idling speed

2. Waveform 2
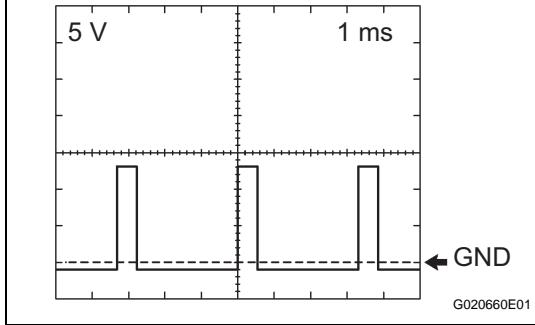
Item	Condition
Terminal	SLU+ - SLU-
Tool setting	5 V/DIV, 1 ms/DIV
Vehicle condition	5th (lock-up) gear

AT
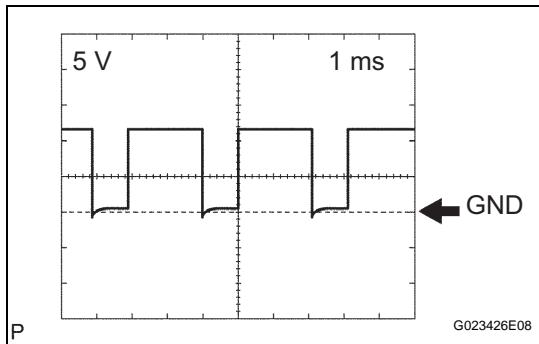
3. Waveform 3

Item	Condition
Terminal	SL2+ - SL2-
Tool setting	5 V/DIV, 1 ms/DIV
Vehicle condition	Engine idling speed

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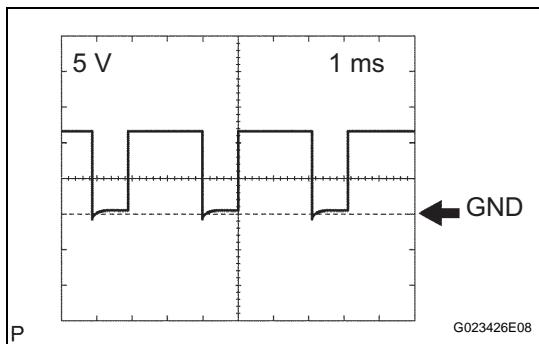
4. Waveform 4

Item	Condition
Terminal	SL1+ - SL1-
Tool setting	5 V/DIV, 1 ms/DIV
Vehicle condition	Engine idling speed

G023426E08
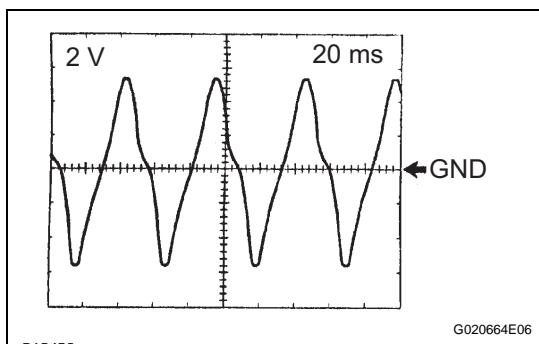
5. Waveform 5

Item	Condition
Terminal	SP2+ - SP2-
Tool setting	2 V/DIV, 20 ms/DIV
Vehicle condition	Vehicle speed 12 mph (20 km/h)

G020664E06
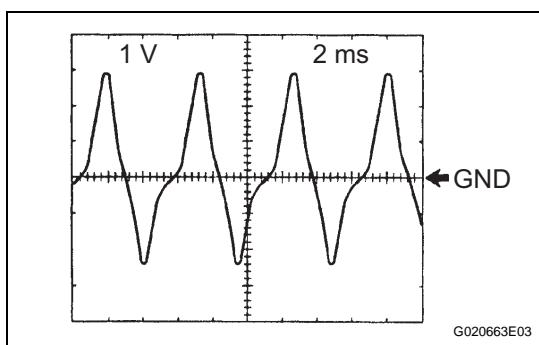
6. Waveform 6

Item	Condition
Terminal	NT+ - NT-
Tool setting	1 V/DIV, 2 ms/DIV
Vehicle condition	Engine idling speed

G020663E03