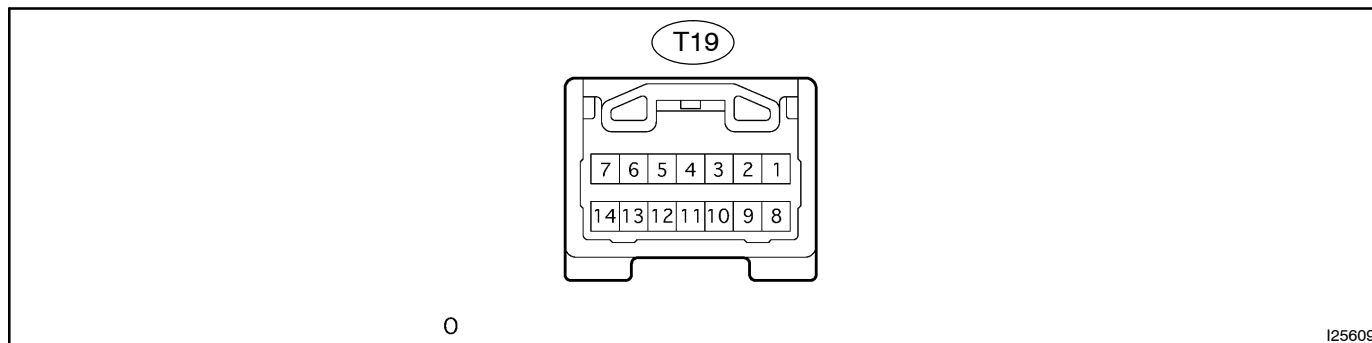


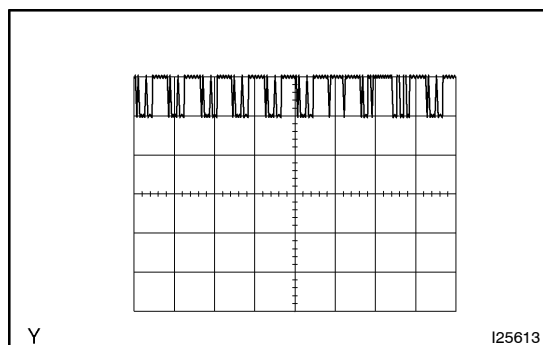
TERMINALS OF ECM

1. TRANSPONDER KEY ECU



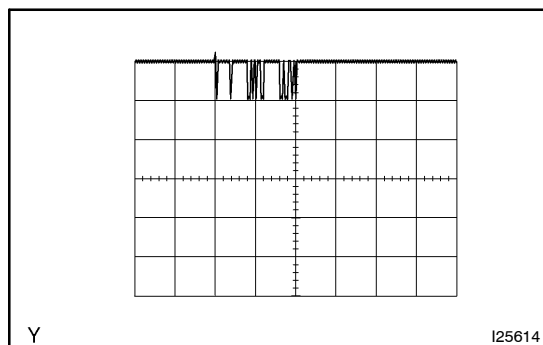
Standard:

Terminal No. (Symbol)	Wiring Color	Condition	Specified condition
T19-1 (+B) – T19-14 (GND)	L-W ↔ W-B	–	10 – 14 V
T19-2 (IG) – T19-14 (GND)	B-R ↔ W-B	Ignition switch OFF → ON	0 V → 10 – 14 V
T19-3 (IND) – T19-14 (GND)	G-R ↔ W-B	Immobiliser system unset → set	0 V → Switching 12 V and 0 V
T19-4 (CTY) – T19-14 (GND)	R-Y ↔ W-B	Driver's door close → open	10 – 14 V → 0 V
T19-6 (EFIO) – T19-14 (GND)	W ↔ W-B	Ignition switch OFF → ON	Waveform 1
T19-7 (EFII) – T19-14 (GND)	Y ↔ W-B	Ignition switch OFF → ON	Waveform 2
T19-8 (VC5) – T19-14 (GND)	Y ↔ W-B	Ignition switch OFF → ON	0 V → 5 V
T19-10 (KSW) – T19-14 (GND)	R-B ↔ W-B	No key in the ignition key cylinder → With key	10 – 14 V → 0 V
T19-11 (CODE) – T19-14 (GND)	L-B ↔ W-B	Ignition switch OFF → ON	Waveform 3
T19-12 (TXCT) – T19-14 (GND)	V-G ↔ W-B	Ignition switch OFF → ON	Waveform 4
T19-14 (GND) – Body ground	W-B	–	Below 1 Ω



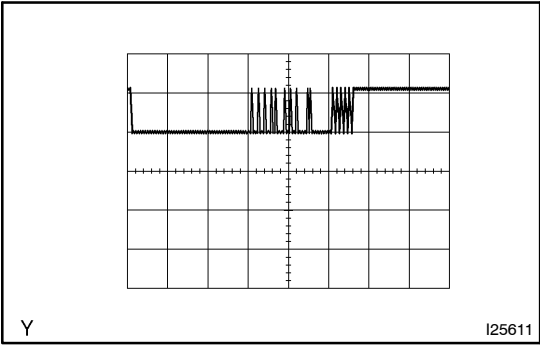
Waveform 1

Terminal	EFIO – GND
Tool setting	5 V/DIV, 5 ms/DIV
Vehicle condition	Ignition switch ON



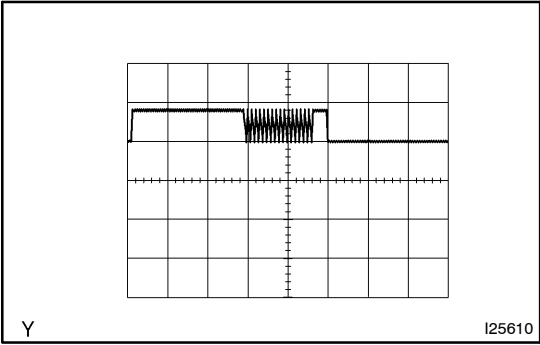
Waveform 2

Terminal	EFII – GND
Tool setting	5 V/DIV, 5 ms/DIV
Vehicle condition	Ignition switch ON



Waveform 3

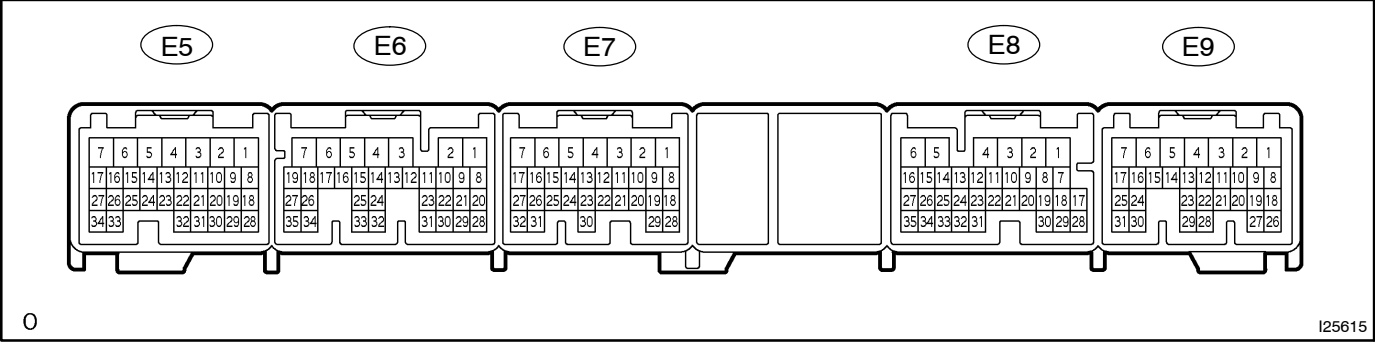
Terminal	CODE – GND
Tool setting	10 V/DIV, 20 ms/DIV
Vehicle condition	Ignition switch ON



Waveform 4

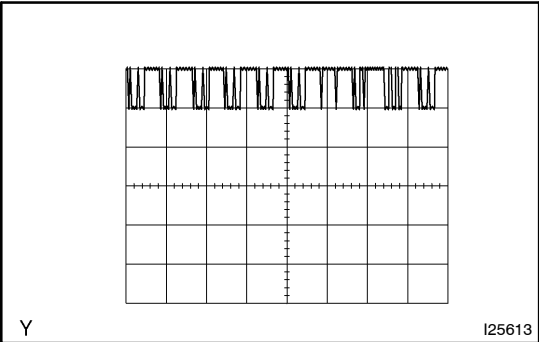
Terminal	TXCT – GND
Tool setting	5 V/DIV, 20 ms/DIV
Vehicle condition	Ignition switch ON

2. ECM



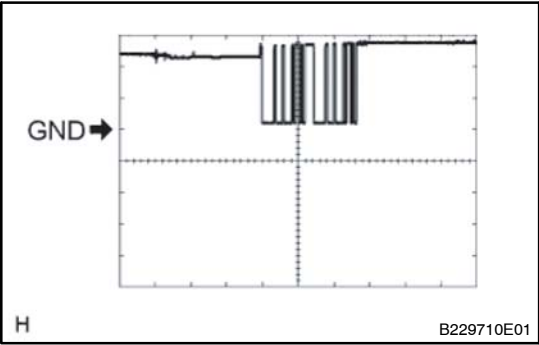
Standard:

Terminal No. (Symbol)	Wiring Color	Condition	Specified condition
E9-3 (BATT) – E7-1 (E1)	B-R – BR	–	9 – 14 V
E9-1 (+B) – E7-1 (E1)	B-Y – BR	Ignition switch OFF → ON	9 – 14 V
E9-2 (+B2) – E7-1 (E1)	B-Y – BR	Ignition switch OFF → ON	9 – 14 V
E9-9 (IGSW) – E7-1 (E1)	B-R – BR	Ignition switch OFF → ON	9 – 14 V
E8-27 (IMI) – E7-1 (E1)	W – BR	Ignition switch OFF	Below 1 V
		Ignition switch ON	Waveform 1
E8-26 (IMO) – E7-1 (E1)	Y – BR	Ignition switch OFF	9 to 14 V
		Within 3 sec after starter ON and initial combustion Or within 3 sec after ignition switch ON when battery is reconnected	Waveform 2
E7-1 (E1) – Body ground	BR	–	Below 1 Ω



Waveform 1

Terminal	IMI – GND
Tool setting	5 V/DIV, 5 ms/DIV
Vehicle condition	Ignition switch ON



Waveform 2

Terminal	IMO – GND
Tool setting	5 V/DIV, 500 ms/DIV
Vehicle condition	Within 3 sec after starter ON and initial combustion Or within 3 sec after ignition switch ON when battery is re-connected

-MEMO-