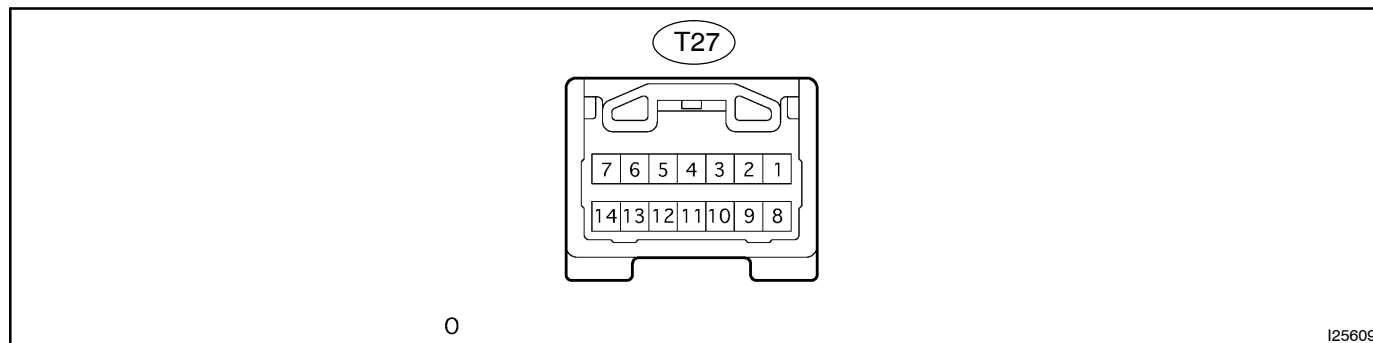


TERMINALS OF ECU

1. TRANSPONDER KEY ECU



(a) Disconnect the transponder key ECU connector.

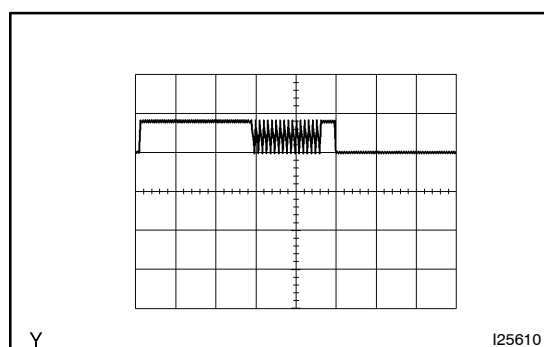
Standard:

Terminal No. (Symbol)	Wiring Color	Condition	Standard
T27-14 (GND) – Body ground	W-B	–	Below 1 Ω
T27-1 (+B) – T27-14 (GND)	L-W – W-B	–	10 – 14 V
T27-2 (IG) – T27-14 (GND)	B-R – W-B	Ignition switch OFF $\rightarrow$ ON	0 V $\rightarrow$ 10 – 14 V
T27-10 (KSW) – T27-14 (GND)	R-B – W-B	No key in the ignition key cylinder $\rightarrow$ With key	10 k Ω or more $\rightarrow$ Below 1 Ω
T27-4 (CTY) – T27-14 (GND)	R-Y – W-B	Driver's door close $\rightarrow$ open	10 k Ω or more $\rightarrow$ Below 1 Ω

(b) Connect the transponder key ECU connector.

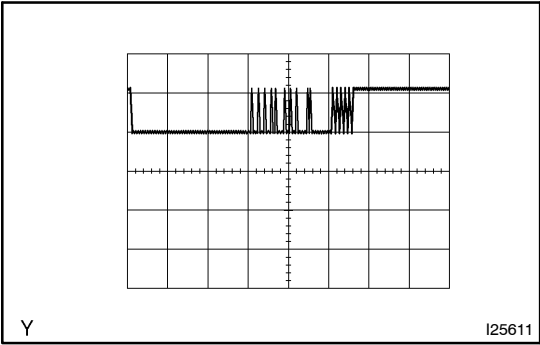
Standard:

Terminal No. (Symbol)	Wiring Color	Condition	Standard
T27-10 (KSW) – T27-14 (GND)	R-B – W-B	No key in the ignition key cylinder $\rightarrow$ With key	10 – 14 V $\rightarrow$ 0 V
T27-8 (VC5) – T27-14 (GND)	Y – W-B	Ignition switch OFF $\rightarrow$ ON	0 V $\rightarrow$ 5 V
T27-12 (TXCT) – T27-14 (GND)	V-G – W-B	Ignition switch OFF $\rightarrow$ ON	Waveform 1
T27-11 (CODE) – T27-14 (GND)	L-B – W-B	Ignition switch OFF $\rightarrow$ ON	Waveform 2
T27-6 (EFIO) – T27-14 (GND)	W – W-B	Ignition switch OFF $\rightarrow$ ON	Waveform 3
T27-7 (EFII) – T27-14 (GND)	Y – W-B	Ignition switch OFF $\rightarrow$ ON	Waveform 4
T27-3 (IND) – T27-14 (GND)	G-R – W-B	Immobiliser system unset $\rightarrow$ set	0 V $\rightarrow$ 10 – 14 V $\leftrightarrow$ 0 V
T27-4 (CTY) – T27-14 (GND)	R-Y – W-B	Driver's door close $\rightarrow$ open	10 – 14 V $\rightarrow$ 0 V



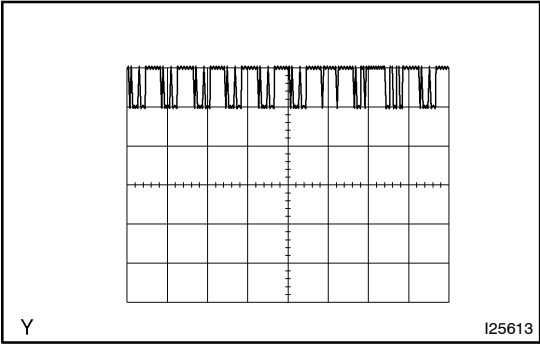
Waveform 1

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



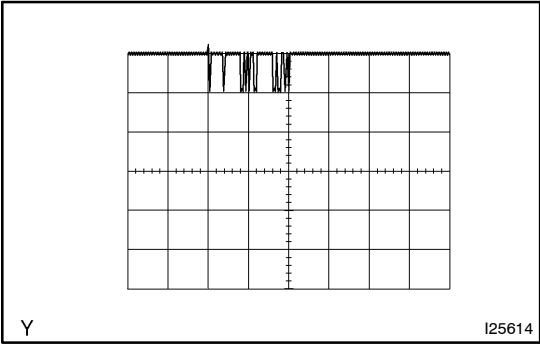
Waveform 2

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



Waveform 3

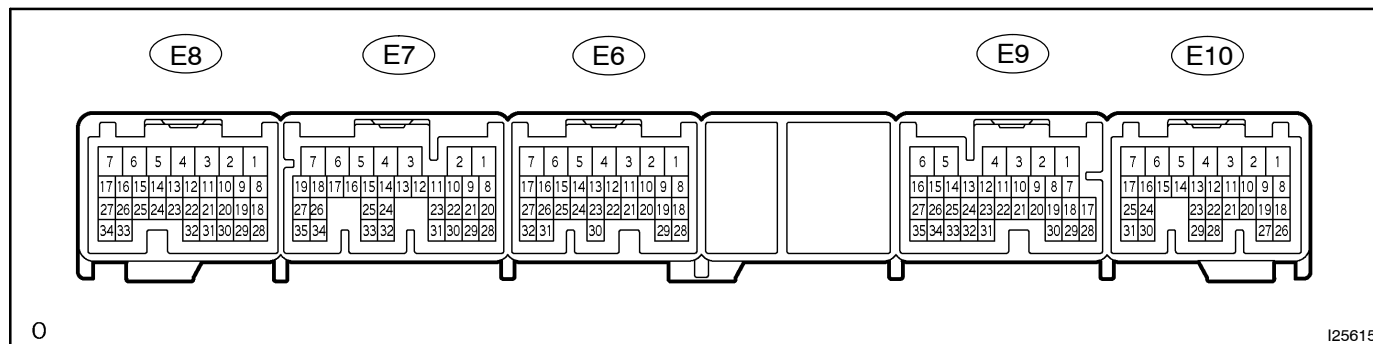
Terminal	EFIO – GND
Tool setting	10 V/DIV, 50 ms/DIV
Vehicle condition	Ignition switch ON



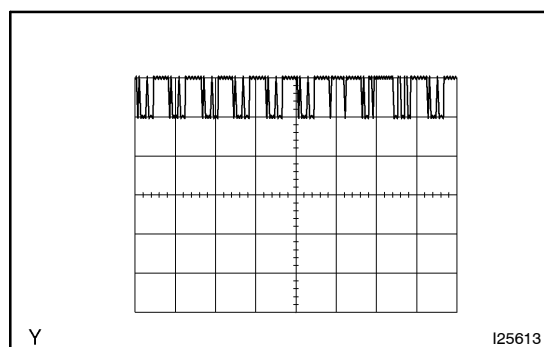
Waveform 4

Terminal	EFII – GND
Tool setting	10 V/DIV, 50 ms/DIV
Vehicle condition	Always

2. ECM

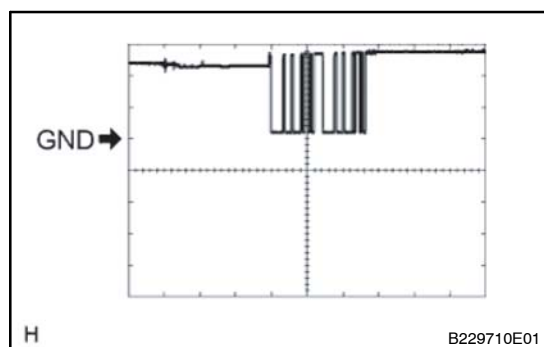


Terminal No. (Symbol)	Wiring Color	Condition	Standard
E10-3 (BATT) - E6-1 (E1)	B-R - BR	-	9 - 14 V
E9-6 (+BM) - E6-1 (E1)	Y-B - BR	Ignition switch OFF → ON	9 - 14 V
E10-1 (+B) - E6-1 (E1)	B-Y - BR	Ignition switch OFF → ON	9 - 14 V
E10-2 (+B2) - E6-1 (E1)	B-Y - BR	Ignition switch OFF → ON	9 - 14 V
E10-9 (IGSW) - E6-1 (E1)	B-R - BR	Ignition switch OFF → ON	9 - 14 V
E9-27 (IMI) - E6-1 (E1)	W - BR	Ignition switch OFF	Below 1 V
		Ignition switch ON	Waveform 1
E9-26 (IMO) - E6-1 (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
E6-1 (E1) - Body ground	BR	-	Below 1 Ω



Waveform 1

Terminal	IMI - GND
Tool setting	10 V/DIV, 50 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