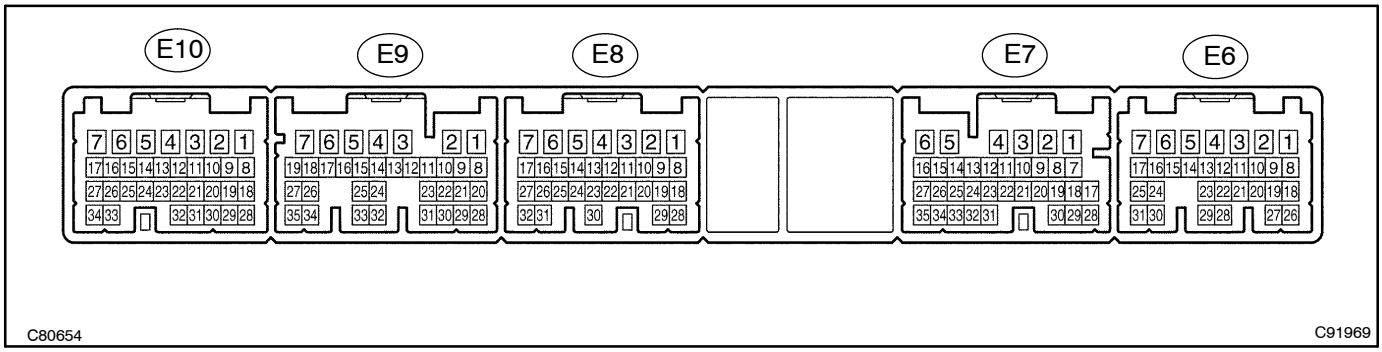
0585T–01

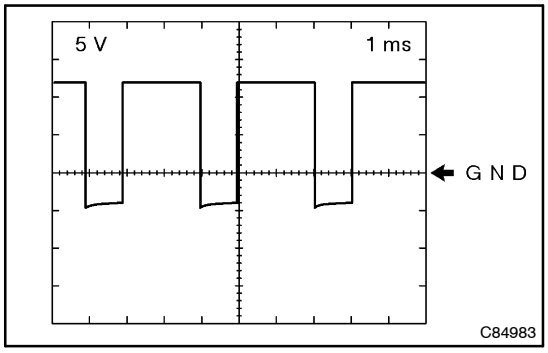
TERMINALS OF ECM

1AZ–FE, 2AZ–FE:



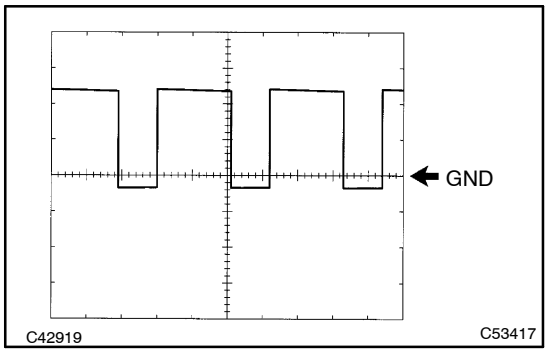
Symbols (Terminal No.)	Wiring Color	Condition	STD Voltage (V)
ODLP (E7–7) ⇔ E1 (E8–1)	O ⇔ BR	O/D main switch ON (O/D OFF)	Below 3
		O/D main switch OFF (O/D ON)	9 – 14
L (E7–8) ⇔ E1 (E8–1)	Y ⇔ BR	IG switch ON Shift lever L range	10 – 14
		IG switch ON Shift lever other than L range	Below 1
2 (E7–9) ⇔ E1 (E8–1)	L–W ⇔ BR	IG switch ON Shift lever 2 range	10 – 14
		IG switch ON Shift lever other than 2 range	Below 1
D (E7–10) ⇔ E1 (E8–1)	W–L ⇔ BR	IG switch ON Shift lever D range	10 – 14
		IG switch ON Shift lever other than D range	Below 1
R (E7–11) ⇔ E1 (E8–1)	R–B ⇔ BR	IG switch ON Shift lever R range	10 – 14
		IG switch ON Shift lever other than R range	Below 1
SPD (E7–17) ⇔ E1 (E8–1)	V–W ⇔ BR	IG switch ON	4.5 – 5.5
ODMS (E7–29) ⇔ E1 (E8–1)	G–O ⇔ BR	IG switch ON	10 – 14
		IG switch ON Press continuously O/D main switch	Below 1
KD*1 (E7–30) ⇔ E1 (E8–1)	R*1 ⇔ BR	IG switch ON and kick–down switch ON	Below 1
		IG switch ON and kick–down switch OFF	10 – 14
NSW (E9–8) ⇔ E1 (E8–1)	B–Y ⇔ BR	IG ON and shift lever P or N range	Below 1
		IG ON and shift lever other than P or N range	10 – 14
DSL (E9–11) ⇔ E1 (E8–1)	Y ⇔ BR	IG switch ON	Below 1
		Vehicle driving under lock–up range	10 – 14
S4 (E9–13) ⇔ E1 (E8–1)	L ⇔ BR	IG switch ON	Below 1
		O/D gear	10 – 14
		Except O/D gear	Below 1
SL2+ (E9–17) ⇔ SL2– (E9–16)	L–Y ⇔ L–R	IG switch ON	Below 1
		1st or 2nd gear	10 – 14
		3rd or O/D gear	Below 1
SL1+ (E9–19) ⇔ SL1– (E9–18)	R–B ⇔ P	IG switch ON	10 – 14
		1st gear	10 – 14
		Except 1st gear	Below 1
NC+ (E9–26) ⇔ NC– (E9–34)	R ⇔ G	Engine is running	Below 1 and 4 – 5
NT+ (E9–27) ⇔ NT– (E9–35)	L ⇔ LG	Engine is running	Below 1 and 4 – 5
SLT+ (E10–17) ⇔ SLT– (E10–16)	Y–R ⇔ Y–B	IG switch ON	10 – 14
THO (E10–30) ⇔ E2 (E10–28)	G ⇔ BR	ATF temperature: 115 °C (239 °F) or more	Below 1.5

*1: Europe LHD



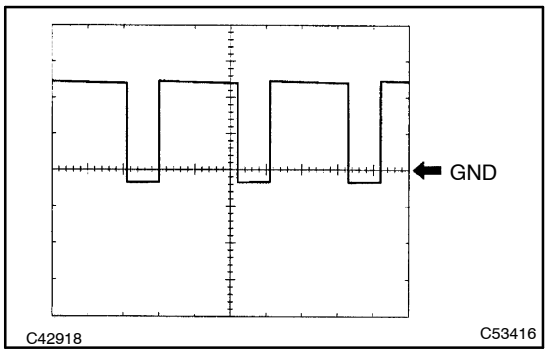
Reference:

Irem	Condition
Terminal	SLT+ – SLT–
Tool setting	5V/DIV, 1ms/DIV
Vehicle condition	Engine idle speed



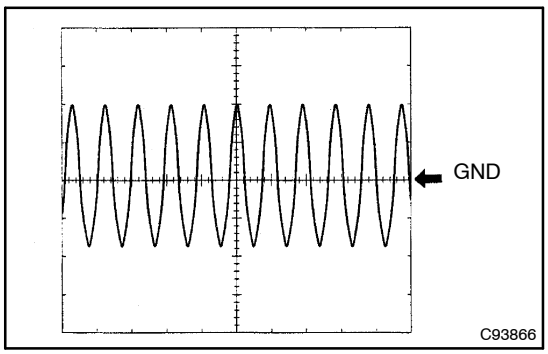
Reference:

Irem	Condition
Terminal	SL1+ – SL1–
Tool setting	5V/DIV, 1ms/DIV
Vehicle condition	Engine idle speed



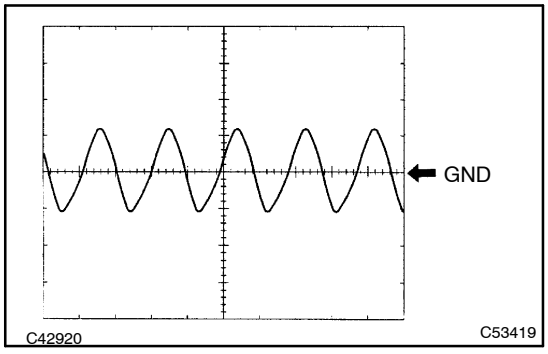
Reference:

Irem	Condition
Terminal	SL2+ – SL2–
Tool setting	5V/DIV, 1ms/DIV
Vehicle condition	Engine idle speed



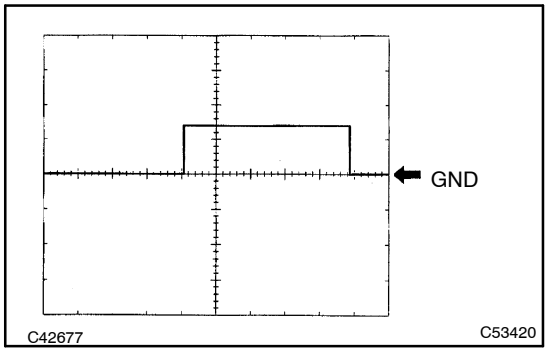
Reference:

Irem	Condition
Terminal	NC+ – NC–
Tool setting	1V/DIV, 1ms/DIV
Vehicle condition	Vehicle speed 30 km/h (19 mph): (3rd gear) Engine speed 1,400 rpm



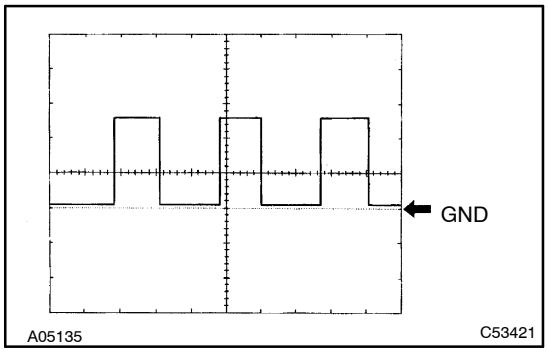
Reference:

Irem	Condition
Terminal	NT+ – NT–
Tool setting	5V/DIV, 0.5ms/DIV
Vehicle condition	Vehicle speed 20 km/h (12 mph)



Reference:

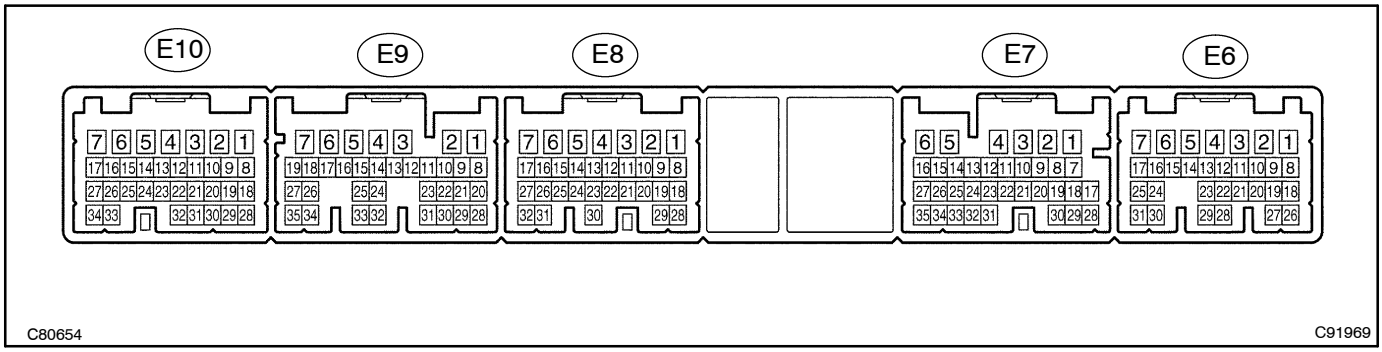
Irem	Condition
Terminal	DSL – E1
Tool setting	10V/DIV, 100ms/DIV
Vehicle condition	Vehicle speed 50 km/h (31 mph): (3rd ⇔ O/D)



Reference:

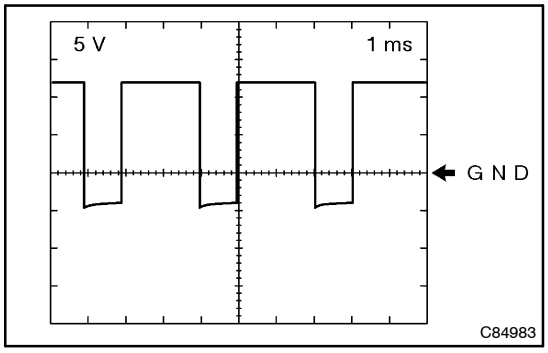
Irem	Condition
Terminal	SPD – E1
Tool setting	5V/DIV, 20ms/DIV
Vehicle condition	Vehicle speed 20 km/h (12 mph)

1MZ–FE:



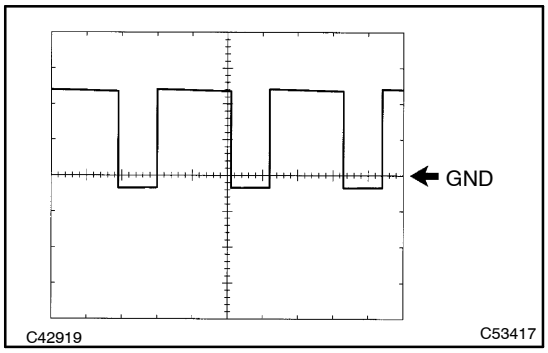
Symbols (Terminal No.)	Wiring Color	Condition	STD Voltage (V)
ODMS (E6–16) ⇔ E1 (E8–1)	G–O ⇔ BR	IG switch ON	10 – 14
		IG switch ON Press continuously O/D main switch	Below 1
ODLP (E7–7) ⇔ E1 (E8–1)	O ⇔ BR	O/D main switch ON (O/D OFF)	Below 3
		O/D main switch OFF (O/D ON)	9 – 14
L (E7–8) ⇔ E1 (E8–1)	Y ⇔ BR	IG switch ON Shift lever L range	10 – 14
		IG switch ON Shift lever other than L range	Below 1
2 (E7–9) ⇔ E1 (E8–1)	L–W ⇔ BR	IG switch ON Shift lever 2 range	10 – 14
		IG switch ON Shift lever other than 2 range	Below 1
D (E7–10) ⇔ E1 (E8–1)	W–L ⇔ BR	IG switch ON Shift lever D range	10 – 14
		IG switch ON Shift lever other than D range	Below 1
R (E7–11) ⇔ E1 (E8–1)	R–B ⇔ BR	IG switch ON Shift lever R range	10 – 14
		IG switch ON Shift lever other than R range	Below 1
SPD (E7–17) ⇔ E1 (E8–1)	V–W ⇔ BR	IG switch ON	4.5 – 5.5
KD*1 (E7–30) ⇔ E1 (E8–1)	R*1 ⇔ BR	IG switch ON and kick–down switch ON	Below 1
		IG switch ON and kick–down switch OFF	10 – 14
NSW (E9–8) ⇔ E1 (E8–1)	B–Y ⇔ BR	IG ON and shift lever P or N range	Below 1
		IG ON and shift lever other than P or N range	10 – 14
DSL (E9–11) ⇔ E1 (E8–1)	Y ⇔ BR	IG switch ON	Below 1
		Vehicle driving under lock–up range	10 – 14
S4 (E9–13) ⇔ E1 (E8–1)	L ⇔ BR	IG switch ON	Below 1
		O/D gear	10 – 14
		Except O/D gear	Below 1
SL2+ (E9–17) ⇔ SL2– (E9–16)	L–Y ⇔ L–R	IG switch ON	Below 1
		1st or 2nd gear	10 – 14
		3rd or O/D gear	Below 1
SL1+ (E9–19) ⇔ SL1– (E9–18)	R–B ⇔ P	IG switch ON	10 – 14
		1st gear	10 – 14
		Except 1st gear	Below 1
NC+ (E9–26) ⇔ NC– (E9–34)	R ⇔ G	Engine is running	Below 1 and 4 – 5
NT+ (E9–27) ⇔ NT– (E9–35)	L ⇔ LG	Engine is running	Below 1 and 4 – 5
SLT+ (E10–17) ⇔ SLT– (E10–16)	Y–R ⇔ Y–B	IG switch ON	10 – 14
THO (E10–30) ⇔ E2 (E10–28)	G ⇔ BR	ATF temperature: 115 °C (239 °F) or more	Below 1.5

*1: Europe LHD



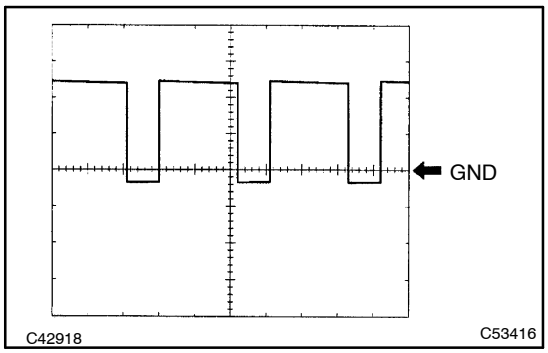
Reference:

Irem	Condition
Terminal	SLT+ – SLT–
Tool setting	5V/DIV, 1ms/DIV
Vehicle condition	Engine idle speed



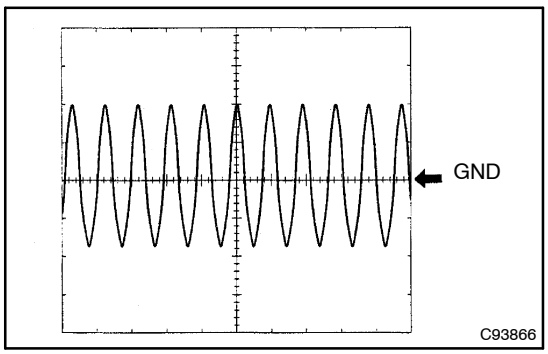
Reference:

Irem	Condition
Terminal	SL1+ – SL1–
Tool setting	5V/DIV, 1ms/DIV
Vehicle condition	Engine idle speed



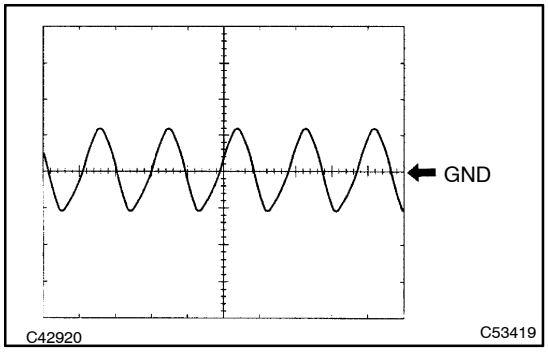
Reference:

Irem	Condition
Terminal	SL2+ – SL2–
Tool setting	5V/DIV, 1ms/DIV
Vehicle condition	Engine idle speed



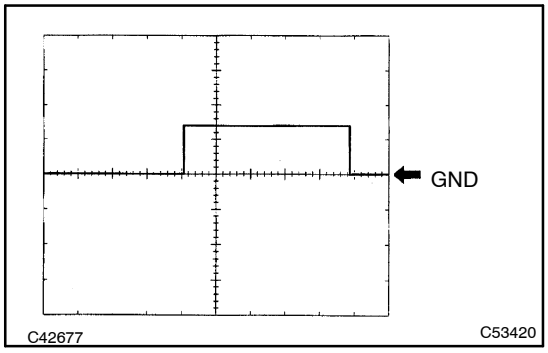
Reference:

Irem	Condition
Terminal	NC+ – NC–
Tool setting	1V/DIV, 1ms/DIV
Vehicle condition	Vehicle speed 30 km/h (19 mph): (3rd gear) Engine speed 1,400 rpm



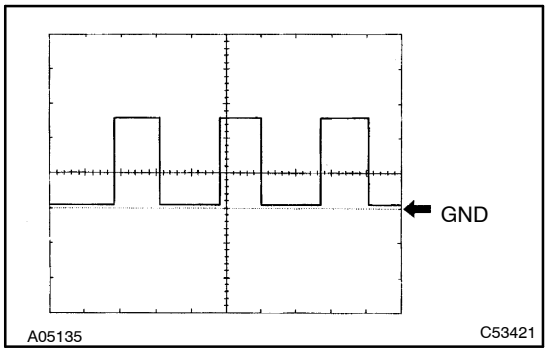
Reference:

Irem	Condition
Terminal	NT+ – NT–
Tool setting	5V/DIV, 0.5ms/DIV
Vehicle condition	Vehicle speed 20 km/h (12 mph)



Reference:

Irem	Condition
Terminal	DSL – E1
Tool setting	10V/DIV, 100ms/DIV
Vehicle condition	Vehicle speed 50 km/h (31 mph): (3rd ⇔ O/D)



Reference:

Irem	Condition
Terminal	SPD – E1
Tool setting	5V/DIV, 20ms/DIV
Vehicle condition	Vehicle speed 20 km/h (12 mph)