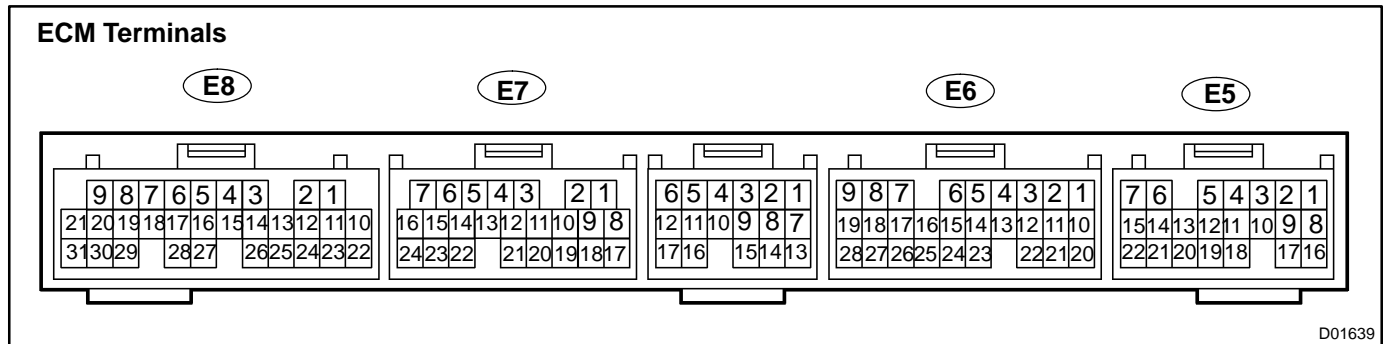


# TERMINALS OF ECM

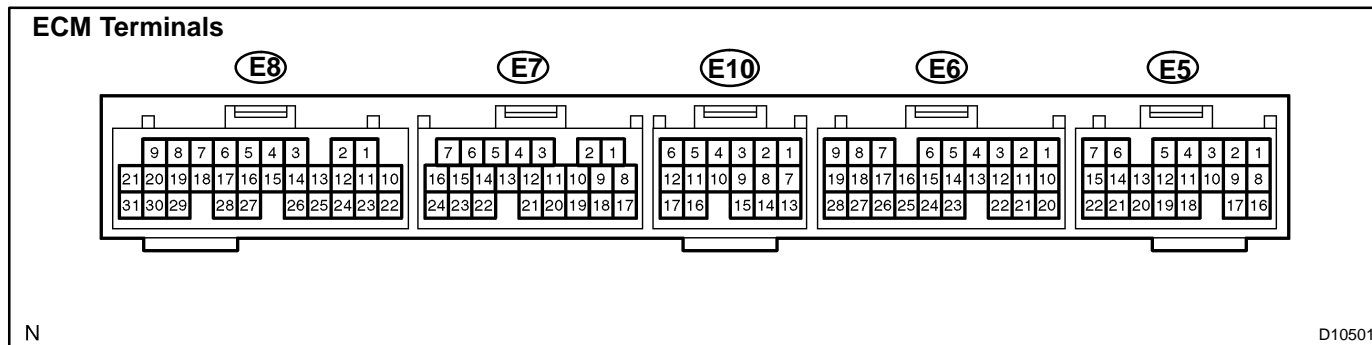
## 3RZ-FE:



Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
S1 (E8 – 7) ↔ E1 (E7 – 17)	V ↔ BR	IG ON	9 – 14
		IG ON and 1st or 2nd gear	9 – 14
		IG ON and 3rd or O/D gear	Below 1.5
S2 (E8 – 8) ↔ E1 (E7 – 17)	LG ↔ BR	IG ON	Below 1.5
		IG ON and 2nd or 3rd gear	9 – 14
		IG ON and 1st or O/D gear	Below 1.5
SL (E8 – 9) ↔ E1 (E7 – 17)	R–W ↔ BR	IG ON	Below 1.5
		IG ON and vehicle driving under lock-up position	9 – 14
SP2+ (E6 – 14) ↔ SP2– (E6 – 23)	Y–R ↔ W–R	IG ON and Rotate driving wheel slowly	Pulse signal is output
OD1 (E5 – 11) ↔ E1 (E7 – 17)	R–Y ↔ BR	IG ON	9 – 14
ODLP (E5 – 10) ↔ E1 (E7 – 17)	L–O ↔ BR	IG ON and O/D OFF indicator light lights up	Below 3
		IG ON and O/D OFF indicator light goes off	9 – 14
THO (E8 – 26) ↔ E2 (E7 – 18)	Y–R ↔ L–B	IG ON and ATF temperature: 115°C (239°F) or more	Below 1.5
L (E5 – 3) ↔ E1 (E7 – 17)	R ↔ BR	IG ON and Shift lever L position	7.5 – 14
		IG ON and Shift lever other than L position	Below 1.5
2 (E5 – 4) ↔ E1 (E7 – 17)	P ↔ BR	IG ON and Shift lever 2 position	7.5 – 14
		IG ON and Shift lever other than 2 position	Below 1.5
R (E5 – 2) ↔ E1 (E7 – 17)	R–B ↔ BR	IG ON and Shift lever R position	7.5 – 14
		IG ON and Shift lever other than R position	Below 1.5
NSW (E5 – 22) ↔ E1 (E7 – 17)	Y–GR ↔ BR	IG ON and Shift lever P or N position	Below 3
		IG ON and Shift lever other than P or N position	9 – 14
PWR (E5 – 17) ↔ E1 (E7 – 17)	GR–R ↔ BR	IG ON and Pattern select switch "NORM"	Below 1.5
		IG ON and Pattern select switch "PWR"	7.5 – 14
ODMS (E6 – 25) ↔ E1 (E7 – 17)	LG ↔ BR	IG ON	9 – 14
		IG ON and Press continuously O/D cancel switch	Below 1.5
TFN (E5 – 9) ↔ E1 (E7 – 17) *1	L ↔ BR	IG ON and Transfer shift position H2 or H4 or L4	9 – 14
		IG ON and Transfer shift position N	Below 1.5
L4 (E5 – 19) ↔ E1 (E7 – 17) *1	GR ↔ BR	IG ON and Transfer shift position L4	Below 1.5
		IG ON and Transfer shift position H2 or H4	9 – 14

\*1: 4WD

## 5VZ-FE:



Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
S1 (E8 – 3) ↔ E1 (E7 – 17)	V ↔ BR	IG ON	9 – 14
		IG ON and 1st or 2nd gear	9 – 14
		IG ON and 3rd or O/D gear	Below 1.5
S2 (E8 – 2) ↔ E1 (E7 – 17)	LG ↔ BR	IG ON	Below 1.5
		IG ON and 2nd or 3rd gear	9 – 14
		IG ON and 1st or O/D gear	Below 1.5
SL (E8 – 1) ↔ E1 (E7 – 17)	R–W ↔ BR	IG ON	Below 1.5
		IG ON and vehicle driving under lock-up condition	9 – 14
SLT+ (E10 – 5) ↔ SLT– (E10 – 11)	W ↔ Y	IG ON	Below 3
		IG ON and engine is idling	Pulse signal output Below 1.5 ↔ 10 – 12
SP1 (E5 – 6) ↔ E1 (E7 – 17)	G–O ↔ BR	IG ON and driving wheel rotating slowly	Pulse generation
SP2+ (E7 – 23) ↔ SP2– (E7 – 22)	Y–R ↔ W–R	IG ON and engine is running	Below 1.5
ODLP (E6 – 20) ↔ E1 (E7 – 17)	L–O ↔ BR	IG ON	9 – 14
ODMS (E6 – 14) ↔ E1 (E7 – 17)	LG ↔ BR	IG ON and O/D main switch ON	Below 3
		IG ON and O/D main switch OFF	9 – 14
THOC (E8 – 19) ↔ E2 (E8 – 11)	Y–R ↔ L–B	IG ON and ATF temperature: 115°C (239°F) or more	Below 1.5
OILW (E6 – 21) ↔ E1 (E7 – 17)	O ↔ BR	IG ON and ATF temperature: 115°C (239°F) or more	Below 1.5
L (E6 – 4) ↔ E1 (E7 – 17)	R ↔ BR	IG ON and Shift lever at L position	7.5 – 14
		IG ON and Shift lever at any position except L position	Below 1.5
2 (E6 – 5) ↔ E1 (E7 – 17)	P ↔ BR	IG ON and Shift lever at 2 position	7.5 – 14
		IG ON and Shift lever at any position except 2 position	Below 1.5
D (E6 – 25) ↔ E1 (E7 – 17)	B–W ↔ BR	IG ON and Shift lever at D position	7.5 – 14
		IG ON and Shift lever at any position except D position	Below 1.5
R (E6 – 6) ↔ E1 (E7 – 17)	R–B ↔ BR	IG ON and Shift lever at R position	7.5 – 14
		IG ON and Shift lever at any position except R position	Below 1.5
NSW (E6 – 3) ↔ E1 (E7 – 17)	Y–GR ↔ BR	IG ON and Shift lever at P or N position	Below 3
		IG ON and Shift lever at any position except P and N position	9 – 14
TFN (E6 – 11) ↔ E1 (E7 – 17)*2	L ↔ BR	IG ON and Transfer lever at N position	Below 1.5
		IG ON and Transfer lever at any position except N position	9 – 14

## DIAGNOSTICS – AUTOMATIC TRANSMISSION (A340E, A340F)

Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
L4 (E6 – 2) ↔ E1 (E7 – 17) *2	GR ↔ BR	IG ON and Transfer lever at L4 position	Below 1.5
		IG ON and Transfer lever at H2 or H4 position	9 – 14

\*1: Alternates repeatedly between below 1.5 V and 4 – 5 V

\*2: 4WD only