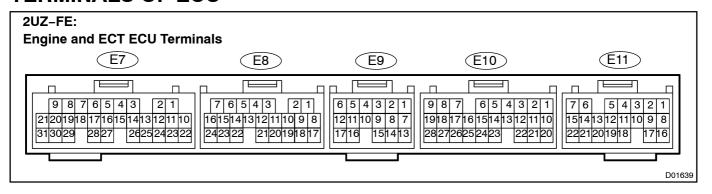
TERMINALS OF ECU

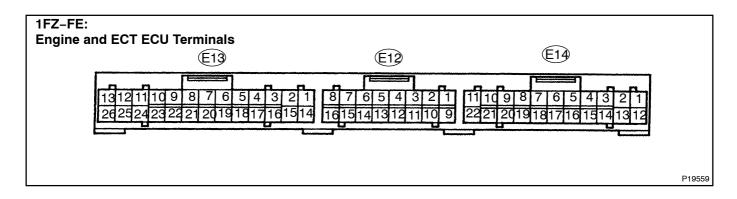
DI3QY-01



Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
		IG ON and Vehicle stationary	Below 1.5
SPD – E1 (E10, 15 – E8, 17)	V ↔ BR	IG ON and Turn one rear wheel slowly	Pulse signal is output Below 1.5 ↔ 4 – 6
OIL - E2 (E9, 18 - E8, 18)	G–Y ↔ BR–W	ATF temperature: 115°C (239°F) or more	Below 1.5
		IG ON	9.0 – 14
S1 - E1 (E9, 1 - E8, 17)	R ↔ BR	1st or 2nd gear	9.0 – 14
		3rd or O/D gear	Below 1.5
		IG ON	Below 1.5
S2 - E1 (E9, 2 - E8, 17)	W ↔ BR	2nd or 3rd gear	9.0 – 14
		1st or O/D gear	Below 1.5
01	0 00	IG ON	Below 1.5
SL – E1 (E9, 3 – E8, 17)	G ↔ BR	Vehicle driving under lock-up position	9.0 – 14
SP2+ - SP2- (E9, 5 - E9, 11)	R ↔ G	Engine is running	Pulse signal is output Below 1.5 ↔ 4 – 6
OIL2 - E2 (E9, 16 - E8, 18)	L ↔ BR-W	ATF temperature: 115°C (239°F) or more	Below 1.5
ST - E1 (E9, 6 - E8, 17)	G-R ↔ BR	IG ON	Below 1.5
		IG ON and Shift lever L range	9.0 – 14
L – E1 (E10, 4 – E8, 17)	G–B ↔ BR	IG ON and Shift lever other than L range	Below 1.5
0 54 (540 0 50 45)	G ↔ BR	IG ON and Shift lever 2 range	9.0 – 14
2 – E1 (E10, 3 – E8, 17)		IG ON and Shift lever other than 2 range	Below 1.5
	G-Y ↔ BR	IG ON and Shift lever D range	9.0 – 14
D – E1 (E10, 19 – E8, 17)		IG ON and Shift lever other than D range	Below 1.5
D E4 (E40 0 E0 47)	R-B ↔ BR	IG ON and Shift lever R range	9.0 – 14
R – E1 (E10, 2 – E8, 17)		IG ON and Shift lever other than R range	Below 1.5
NOW 54 (540 00 50 47)	B-W ↔ BR	IG ON and Shift lever P or N range	Below 1.5
NSW - E1 (E10, 20 - E8, 17)		IG ON and Shift lever other than P or N range	9.0 – 14
OTD E1/E10 C E0 17)	C W BB	IG ON and Brake pedal is depressed	7.5 – 14
STP – E1 (E10, 6 – E8, 17)	G–W ↔ BR	IG ON and Brake pedal is released	Below 1.5
OD2 – E1 (E10, 1 – E8, 17)	B ↔ BR	O/D main switch ON (O/D OFF)	Below 3
		O/D main switch OFF (O/D ON)	9.0 – 14
DWD E4 /E40 44 E0 43'	L-W ↔ BR	IG ON and Pattern select switch "NORM"	9.0 – 14
PWR – E1 (E10, 11 – E8, 17)		IG ON and Pattern select switch "PWR"	Below 1.5
CNIMI E1 /E10 00 F0 47\	L-R ↔ BR	IG ON and 2nd start switch ON	Below 1.5
SNWI – E1 (E13, 22 – E8, 17)		IG ON and 2nd start switch OFF	9.0 – 14

DIAGNOSTICS - AUTOMATIC TRANSMISSION (A442F)

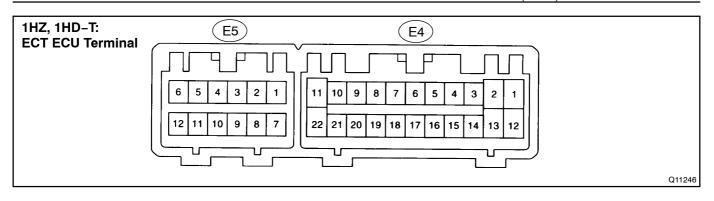
21111	Y ↔ BR	IG ON and 2nd start mode	Below 1.5
SNWL - E1 (E13, 21 - E8, 17)		IG ON and Except 2nd start mode	7.5 – 14
		IG ON and Transfer shift lever N position	Below 1.5
TFN – E1 (E11, 15 – E8, 17)	Y–G ↔ BR	IG ON and Transfer shift lever other than N position	9.0 – 14
L4 – E1 (E11, 22 – E8, 17)	B-L ↔ BR	IG ON and Transfer shift lever L4 position	9.0 – 14
		IG ON and Transfer shift lever other than L4 position	Below 1.5
		IG ON	Below 1.5
SLT+-SLT- (E4, 11 - E4, 9)	G–W ↔ G–B	Engine is idling	Pulse signal is output Below 1.5 ↔ 9.0 – 14



Below 1.5 → 4 − 6 Below 1.5 → 4 − 6 Below 1.5 → 4 − 6	Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
St or O/D gear Below 1.5	S1 – E1 (E13, 2 – E13, 14)	R ↔ BR	IG ON	9.0 – 14
S2 - E1 (E13, 15 - E13, 14)			1st or 2nd gear	9.0 – 14
S2 - E1 (E13, 15 - E13, 14) W → BR 2nd or 3rd gear 9.0 - 14 SL - E1 (E13, 1 - E13, 14) G → BR Ist or O/D gear Below 1.5 SL - E1 (E13, 1 - E13, 14) G → BR IG ON Below 1.5 SP2+ - SP2+ (E12, 6 - E12, 14) R → G Engine is running Pulse signal is output. Below 1.5 → 4 - 6 OD2 - E1 (E14, 20 - E12, 14) B → BR O/D main switch ON (O/D OFF) Below 1.5 OD2 - E1 (E14, 6 - E13, 14) G - B → BR IG ON and Shift lever L range 9.0 - 14 L - E1 (E14, 6 - E13, 14) G - B → BR IG ON and Shift lever other than L range Below 1.5 2 - E1 (E14, 17 - E13, 14) G → BR IG ON and Shift lever other than 2 range 9.0 - 14 B - E1 (E14, 16 - E13, 16) B - B → BR IG ON and Shift lever other than 1 range Below 1.5 NSW - E1 (E14, 22 - E13, 14) B - W → BR IG ON and Shift lever other than 1 range Below 1.5 TFN - E1 (E12, 16 - E13, 14) Y - G → BR IG ON and Shift lever other than N position Below 1.5 SNWI - E1 (E13, 22 - E13, 14) Y - G → BR IG ON and Tansfer shift lever other than N position 9.0 - 14 SNWI - E1			3rd or O/D gear	Below 1.5
Storn O/D gear Below 1.5			IG ON	Below 1.5
SL − E1 (E13, 1 − E13, 14) G → BR IG ON Vehicle driving under lock – up position Below 1.5 SP2+ − SP2+ (E12, 6 − E12, 14) R → G Engine is running Pulse signal is output Below 1.5 m 4 − 6 OD2 − E1 (E14, 20 − E12, 14) B → BR O/D main switch ON (O/D OFF) Below 1.5 L − E1 (E14, 6 − E13, 14) G − B → BR IG ON and Shift lever L range 9.0 − 14 L − E1 (E14, 17 − E13, 14) G → BR IG ON and Shift lever L range 9.0 − 14 2 − E1 (E14, 17 − E13, 14) G → BR IG ON and Shift lever than L range Below 1.5 R − E1 (E14, 16 − E13, 16) R − B → BR IG ON and Shift lever than 2 range 9.0 − 14 NSW − E1 (E14, 22 − E13, 14) B − W → BR IG ON and Shift lever other than R range Below 1.5 IG ON and Shift lever other than P or N range Below 1.5 Below 1.5 IG ON and Shift lever other than P or N range Below 1.5 Below 1.5 IG ON and Shift lever other than P or N range Below 1.5 Below 1.5 IG ON and Transfer shift lever P or N range Below 1.5 Below 1.5 SNWI − E1 (E13, 22 − E13, 14) Y → BR IG ON and Shift lever N position	S2 - E1 (E13, 15 - E13, 14)	W ↔ BR	2nd or 3rd gear	9.0 – 14
SL - E1 (E13, 1 - E13, 14) G → BR Vehicle driving under lock-up position 9.0 - 14 SP2+ - SP2+ (E12, 6 - E12, 14) R → G Engine is running Pulse signal is output Below 1.5 → 4 - 6 OD2 - E1 (E14, 20 - E12, 14) B → BR O/D main switch ON (O/D OFF) Below 1.5 L - E1 (E14, 6 - E13, 14) G - B → BR IG ON and Shift lever L range 9.0 - 14 L - E1 (E14, 17 - E13, 14) G → BR IG ON and Shift lever other than L range Below 1.5 2 - E1 (E14, 16 - E13, 16) R - B → BR IG ON and Shift lever other than 2 range 9.0 - 14 B - B + B + BR IG ON and Shift lever other than 2 range 9.0 - 14 IG ON and Shift lever other than 2 range 9.0 - 14 IG ON and Shift lever other than 1 range Below 1.5 IG ON and Shift lever other than 1 range Below 1.5 IG ON and Shift lever to 1 range 9.0 - 14 IG ON and Shift lever to 1 range 9.0 - 14 IG ON and Shift lever to 1 range Below 1.5 IG ON and Shift lever to 1 range Below 1.5 IG ON and Shift lever to 1 range Below 1.5 IG ON and 2 range IG ON and 2 range Belo			1st or O/D gear	Below 1.5
SP2+ - SP2+ (E12, 6 - E12, 14) R → G Engine is running Pulse signal is output Below 1.5 ↔ 4 - 6 OD2 - E1 (E14, 20 - E12, 14) B ↔ BR O/D main switch ON (O/D OFF) Below 1.5 ↔ 4 - 6 DD2 - E1 (E14, 20 - E12, 14) B ↔ BR O/D main switch OFF (O/D ON) 9.0 - 14 L - E1 (E14, 6 - E13, 14) G → BR IG ON and Shift lever L range 9.0 - 14 L - E1 (E14, 17 - E13, 14) G → BR IG ON and Shift lever other than L range Below 1.5 R - E1 (E14, 16 - E13, 16) R - B ↔ BR IG ON and Shift lever other than 2 range 9.0 - 14 R - E1 (E14, 16 - E13, 16) R - B ↔ BR IG ON and Shift lever other than 1 range Below 1.5 NSW - E1 (E14, 22 - E13, 14) B - W ↔ BR IG ON and Shift lever other than R range Below 1.5 IS ON and Shift lever other than P or N range Below 1.5 Below 1.5 IS ON and Shift lever other than P or N range Below 1.5 IG ON and Shift lever other than P or N range 9.0 - 14 IG ON and Transfer shift lever N position Below 1.5 IS ON and Transfer shift lever other than N position 9.0 - 14 IG ON and 2nd start switch ON 9.0 - 14	01	0 88	IG ON	Below 1.5
SP2" – SP2" (E12, 6 – E12, 14) H ↔ G Engine is running Below 1.5 ↔ 4 – 6 OD2 – E1 (E14, 20 – E12, 14) B ↔ BR O/D main switch ON (O/D OFF) Below 1.5 L – E1 (E14, 6 – E13, 14) G → BR IG ON and Shift lever L range 9.0 – 14 L – E1 (E14, 17 – E13, 14) G ↔ BR IG ON and Shift lever other than L range Below 1.5 R – E1 (E14, 16 – E13, 14) R – B ↔ BR IG ON and Shift lever a range 9.0 – 14 IG ON and Shift lever than 2 range 9.0 – 14 9.0 – 14 IG ON and Shift lever than 2 range 9.0 – 14 IG ON and Shift lever than 2 range 9.0 – 14 IG ON and Shift lever than 2 range 9.0 – 14 IG ON and Shift lever than 2 range 9.0 – 14 IG ON and Shift lever than 2 range 9.0 – 14 IG ON and Shift lever than 2 range 9.0 – 14 IG ON and Shift lever than 2 range 9.0 – 14 IG ON and Shift lever than 2 range 9.0 – 14 IG ON and Shift lever than 2 range 9.0 – 14 IG ON and Shift lever than 2 range 9.0 – 14 IG ON and Shift lever than 2 range 9.0 – 14 IG ON and 3 ran	SL - E1 (E13, 1 - E13, 14)	G ↔ BR	Vehicle driving under lock-up position	9.0 – 14
OD2 - E1 (E14, 20 - E12, 14) B → BR O/D main switch OFF (O/D ON) 9.0 - 14 L - E1 (E14, 6 - E13, 14) G-B → BR IG ON and Shift lever L range 9.0 - 14 2 - E1 (E14, 17 - E13, 14) G → BR IG ON and Shift lever other than L range Below 1.5 R - E1 (E14, 16 - E13, 14) B → BR IG ON and Shift lever 2 range 9.0 - 14 R - E1 (E14, 16 - E13, 16) B - B → BR IG ON and Shift lever other than 2 range 9.0 - 14 NSW - E1 (E14, 22 - E13, 14) B - W → BR IG ON and Shift lever other than R range Below 1.5 IG ON and Shift lever other than P or N range Below 1.5 Below 1.5 IG ON and Shift lever other than P or N range Below 1.5 IG ON and Shift lever other than P or N range Below 1.5 IG ON and Transfer shift lever N position Below 1.5 IG ON and Transfer shift lever N position Below 1.5 SNWI - E1 (E13, 22 - E13, 14) L - R → BR IG ON and 2nd start switch ON 9.0 - 14 IG ON and 2nd start switch OFF Below 1.5 Below 1.5 SNWL - E1 (E13, 21 - E13, 14) Y → BR IG ON and Except 2nd start mode 7.5 - 14 <t< td=""><td>SP2+ - SP2- (E12, 6 - E12, 14)</td><td>R ↔ G</td><td>Engine is running</td><td>Pulse signal is output Below 1.5 ↔ 4 - 6</td></t<>	SP2+ - SP2- (E12, 6 - E12, 14)	R ↔ G	Engine is running	Pulse signal is output Below 1.5 ↔ 4 - 6
Color main switch OFF (O/D ON) 9.0 - 14 Color and Shift lever L range 9.0 - 14 Color and Shift lever L range 9.0 - 14 Color and Shift lever other than L range 9.0 - 14 Color and Shift lever other than L range 9.0 - 14 Color and Shift lever other than L range 9.0 - 14 Color and Shift lever 2 range 9.0 - 14 Color and Shift lever 3 range 9.0 - 14 Color and Shift lever 6 range 9.0 - 14 Color and Shift lever 6 range 9.0 - 14 Color and Shift lever 7 range 9.0 - 14 Color and Shift lever 8 range 9.0 - 14 Color and Shift lever 9 ro 8 range 9.0 - 14 Color and Shift lever 9 ro 9 range 9.0 - 14 Color and Shift lever 9 ro 9 range 9.0 - 14 Color and Shift lever 9 ro 9 range 9.0 - 14 Color and Shift lever 9 ro 9 range 9.0 - 14 Color and Shift lever 9 ro 9 range 9.0 - 14 Color and Shift lever 9 ro 9 range 9.0 - 14 Color and Transfer shift lever 1 range 9.0 - 14 Color and Transfer shift lever 1 range 9.0 - 14 Color and Transfer shift lever 1 range 9.0 - 14 Color and Transfer shift lever 1 range 9.0 - 14 Color and Transfer shift lever 1 range 9.0 - 14 Color and Transfer shift lever 1 range 9.0 - 14 Color and Transfer shift lever 1 range 9.0 - 14 Color and 2 rand start switch 0 range 9.0 - 14 Color and 2 rand start switch 0 range 9.0 - 14 Color and 2 rand start mode 9.0 - 14 Color and 2 rand start mode 7.5 - 14 Color and 2 rand start mode 7.5 - 14 Color and 2 rand start mode 7.5 - 14 Color and 3 ransfer shift lever 1 range 9.0 - 14 Color and 4 ransfer shift lever 1 range 9.0 - 14 Color and 2 rand start mode 7.5 - 14 Color and 3 ransfer shift lever 1 range 9.0 - 14 Color and 3 ransfer shift lever 1 range 9.0 - 14 Color and 3 ransfer shift lever 1 range 9.0 - 14 Color and 3 ransfer shift lever 1 range 9.0 - 14 Color and 4 ransfer shift lever 1 range 9.0 - 14 Color and 3 ransfer shift lever 1 r		0	O/D main switch ON (O/D OFF)	Below 1.5
L − E1 (E14, 6 − E13, 14) G−B ↔ BR IG ON and Shift lever other than L range Below 1.5 2 − E1 (E14, 17 − E13, 14) G ↔ BR IG ON and Shift lever 2 range 9.0 − 14 R − E1 (E14, 16 − E13, 16) R−B ↔ BR IG ON and Shift lever other than 2 range 9.0 − 14 R − E1 (E14, 16 − E13, 16) R−B ↔ BR IG ON and Shift lever other than R range 9.0 − 14 NSW − E1 (E14, 22 − E13, 14) B−W ↔ BR IG ON and Shift lever other than P or N range Below 1.5 IS ON and Shift lever other than P or N range 9.0 − 14 9.0 − 14 IS ON and Shift lever other than P or N range 9.0 − 14 IG ON and Transfer shift lever N position Below 1.5 IG ON and Transfer shift lever other than N position 9.0 − 14 IG ON and 2nd start switch ON 9.0 − 14 IG ON and 2nd start switch OFF Below 1.5 SNWL − E1 (E13, 21 − E13, 14) Y ↔ BR IG ON and Except 2nd start mode 7.5 − 14 PWR − E1 (E14, 3 − E13, 14) L−W ↔ BR IG ON and Pattern select switch "NORM" Below 1.5 IG ON and Vehicle stationary Below 1.5 9.0 − 14 IG ON and Transfer shift lever L4 position <t< td=""><td>OD2 – E1 (E14, 20 – E12, 14)</td><td>B ↔ BH</td><td>O/D main switch OFF (O/D ON)</td><td>9.0 – 14</td></t<>	OD2 – E1 (E14, 20 – E12, 14)	B ↔ BH	O/D main switch OFF (O/D ON)	9.0 – 14
IG ON and Shift lever other than L range Below 1.5		0.5	IG ON and Shift lever L range	9.0 – 14
$ \begin{array}{c} 2-\text{E1} \left(\text{E14}, 17-\text{E13}, 14 \right) \\ \text{R} - \text{E1} \left(\text{E14}, 16-\text{E13}, 16 \right) \\ \text{R} - \text{E1} \left(\text{E14}, 16-\text{E13}, 16 \right) \\ \text{NSW} - \text{E1} \left(\text{E14}, 22-\text{E13}, 14 \right) \\ \text{TFN} - \text{E1} \left(\text{E14}, 22-\text{E13}, 14 \right) \\ \text{EACH } \\ \text{TFN} - \text{E1} \left(\text{E14}, 22-\text{E13}, 14 \right) \\ \text{EACH } \\ \text{EACH }$	L – E1 (E14, 6 – E13, 14)	G-B ↔ BR	IG ON and Shift lever other than L range	Below 1.5
IG ON and Shift lever other than 2 range Below 1.5 R - E1 (E14, 16 - E13, 16) R - B ↔ BR			IG ON and Shift lever 2 range	9.0 – 14
R - E1 (E14, 16 - E13, 16) R-B ↔ BR IG ON and Shift lever other than R range Below 1.5 NSW - E1 (E14, 22 - E13, 14) B-W ↔ BR IG ON and Shift lever other than R range Below 1.5 TFN - E1 (E12, 16 - E13, 14) Y-G ↔ BR IG ON and Shift lever other than P or N range 9.0 - 14 SNWI - E1 (E13, 22 - E13, 14) Y-G ↔ BR IG ON and Transfer shift lever other than N position Below 1.5 SNWL - E1 (E13, 22 - E13, 14) L-R ↔ BR IG ON and 2nd start switch ON 9.0 - 14 SNWL - E1 (E13, 21 - E13, 14) Y ↔ BR IG ON and 2nd start switch OFF Below 1.5 BON and Except 2nd start mode Below 1.5 IG ON and Except 2nd start mode 7.5 - 14 PWR - E1 (E14, 3 - E13, 14) L-W ↔ BR IG ON and Pattern select switch "NORM" Below 1.5 SPD - E1 (E14, 9 - E13, 14) V ↔ BR IG ON and vehicle stationary Pulse signal is output Below 1.5 ∨ L4 - E1 (E13, 9 - E13, 14) B-L ↔ BR IG ON and Transfer shift lever L4 position 9.0 - 14	2 – E1 (E14, 17 – E13, 14)	G ↔ BR	IG ON and Shift lever other than 2 range	Below 1.5
IG ON and Shift lever other than R range Below 1.5 NSW - E1 (E14, 22 - E13, 14) B-W ↔ BR	D E1 (E11 10 E10 10)		IG ON and Shift lever R range	9.0 – 14
NSW - E1 (E14, 22 - E13, 14) B-W ↔ BR IG ON and Shift lever other than P or N range 9.0 - 14 TFN - E1 (E12, 16 - E13, 14) Y-G ↔ BR IG ON and Transfer shift lever N position Below 1.5 SNWI - E1 (E13, 22 - E13, 14) L-R ↔ BR IG ON and 2nd start switch ON 9.0 - 14 SNWL - E1 (E13, 21 - E13, 14) Y ↔ BR IG ON and 2nd start switch OFF Below 1.5 SNWL - E1 (E13, 21 - E13, 14) Y ↔ BR IG ON and 2nd start mode 7.5 - 14 PWR - E1 (E14, 3 - E13, 14) L-W ↔ BR IG ON and Pattern select switch "NORM" Below 1.5 IG ON and Pattern select switch "PWR" 9.0 - 14 9.0 - 14 IG ON and vehicle stationary Below 1.5 V IG ON and turn one rear wheel only Pulse signal is output Below 1.5 ↔ 4 - 6 IG ON and Transfer shift lever L4 position 9.0 - 14 IG ON and Transfer shift lever L4 position 9.0 - 14 IG ON and Transfer shift lever L4 position Below 1.5	R – E1 (E14, 16 – E13, 16)	R-B ↔ BR	IG ON and Shift lever other than R range	Below 1.5
	NOW Et (Ett oo Etc tt)	B-W ↔ BR	IG ON and Shift lever P or N range	Below 1.5
$ \begin{array}{c} \text{TFN} - \text{E1 (E12, 16 - E13, 14)} & \text{Y-G} \leftrightarrow \text{BR} \\ \hline \\ \text{SNWI} - \text{E1 (E13, 22 - E13, 14)} \\ \\ \text{SNWI} - \text{E1 (E13, 22 - E13, 14)} \\ \\ \text{SNWL} - \text{E1 (E13, 21 - E13, 14)} \\ \\ \text{PWR} - \text{E1 (E13, 21 - E13, 14)} \\ \\ \text{PWR} - \text{E1 (E14, 3 - E13, 14)} \\ \\ \text{SPD} - \text{E1 (E14, 9 - E13, 14)} \\ \\ \text{SPD} - \text{E1 (E14, 9 - E13, 14)} \\ \\ \text{BR} \\ \\ \text{IG ON and 2nd start switch OFF} \\ \\ \text{IG ON and 2nd start mode} \\ \\ \text{IG ON and Except 2nd start mode} \\ \\ \text{IG ON and Pattern select switch "NORM"} \\ \\ \text{Below 1.5} \\ \\ \text{IG ON and Pattern select switch "PWR"} \\ \\ \text{IG ON and Pattern select switch "PWR"} \\ \\ \text{SPD} - \text{E1 (E14, 9 - E13, 14)} \\ \\ \text{V} \leftrightarrow \text{BR} \\ \\ \text{IG ON and turn one rear wheel only} \\ \\ \text{IG ON and Transfer shift lever L4 position} \\ \\ \text{Below 1.5} \\ \\ \text{Pulse signal is output Below 1.5} \\ \\ \text{Below 1.5} \\ \\ \text{ON and Transfer shift lever L4 position} \\ \\ \text{IG ON and Transfer shift lever other than L4 position} \\ \\ \text{Below 1.5} \\ \\ \\ \text{Below 1.5} \\ \\ \text{Below 1.5} \\ \\ \text{Below 1.5} \\ \\ Below 1.$	NSW - E1 (E14, 22 - E13, 14)		IG ON and Shift lever other than P or N range	9.0 – 14
IG ON and Transfer shift lever other than N position 9.0 - 14		Y–G ↔ BR	IG ON and Transfer shift lever N position	Below 1.5
SNWI - E1 (E13, 22 - E13, 14) L-R ↔ BR IG ON and 2nd start switch OFF Below 1.5 SNWL - E1 (E13, 21 - E13, 14) Y ↔ BR IG ON and 2nd start mode Below 1.5 FWR - E1 (E14, 3 - E13, 14) L-W ↔ BR IG ON and Pattern select switch "NORM" Below 1.5 IG ON and Pattern select switch "PWR" 9.0 - 14 IG ON and vehicle stationary Below 1.5 V Pulse signal is output Below 1.5 ↔ 4 - 6 IG ON and turn one rear wheel only Pulse signal is output Below 1.5 ↔ 4 - 6 IG ON and Transfer shift lever L4 position 9.0 - 14 IG ON and Transfer shift lever other than L4 position Below 1.5	IFN - E1 (E12, 16 - E13, 14)		IG ON and Transfer shift lever other than N position	9.0 – 14
IG ON and 2nd start switch OFF Below 1.5	ONTHE E4 (E40 00 E40 44)	L-R ↔ BR	IG ON and 2nd start switch ON	9.0 – 14
SNWL - E1 (E13, 21 - E13, 14) $Y \leftrightarrow BR$ IG ON and Except 2nd start mode $7.5 - 14$ PWR - E1 (E14, 3 - E13, 14) $L-W \leftrightarrow BR$ IG ON and Pattern select switch "NORM" Below 1.5 IG ON and Pattern select switch "PWR" 9.0 - 14 IG ON and vehicle stationary Below 1.5 V IG ON and turn one rear wheel only Pulse signal is output Below 1.5 $\leftrightarrow 4 - 6$ L4 - E1 (E13, 9 - E13, 14) $B-L \leftrightarrow BR$ IG ON and Transfer shift lever L4 position 9.0 - 14 IG ON and Transfer shift lever than L4 position Below 1.5	SNWI – E1 (E13, 22 – E13, 14)		IG ON and 2nd start switch OFF	Below 1.5
IG ON and Except 2nd start mode 7.5 - 14	CNNA!! E4 /E40 04 E40 44)	Y ↔ BR	IG ON and 2nd start mode	Below 1.5
PWR - E1 (E14, 3 - E13, 14) L-W \leftrightarrow BR IG ON and Pattern select switch "PWR" 9.0 - 14 IG ON and vehicle stationary Below 1.5 V IG ON and turn one rear wheel only Below 1.5 \leftrightarrow 4 - 6 L4 - E1 (E13, 9 - E13, 14) B-L \leftrightarrow BR IG ON and Transfer shift lever L4 position 9.0 - 14 IG ON and Transfer shift lever L4 position Below 1.5	SNWL - E1 (E13, 21 - E13, 14)		IG ON and Except 2nd start mode	7.5 – 14
IG ON and Pattern select switch "PWR" 9.0 - 14	DIAID E4 (E44 0 E40 44)		IG ON and Pattern select switch "NORM"	Below 1.5
SPD - E1 (E14, 9 - E13, 14) $V \leftrightarrow BR$ IG ON and turn one rear wheel only Pulse signal is output Below 1.5 \leftrightarrow 4 - 6 L4 - E1 (E13, 9 - E13, 14) $B-L \leftrightarrow BR$ IG ON and Transfer shift lever L4 position 9.0 - 14 IG ON and Transfer shift lever other than L4 position Below 1.5	PWR - ET (E14, 3 - E13, 14)	L-W ↔ BR	IG ON and Pattern select switch "PWR"	9.0 – 14
IG ON and turn one rear wheel only $E = \frac{1}{16} = 1$	SPD - E1 (E14, 9 - E13, 14)	V ↔ BR	IG ON and vehicle stationary	Below 1.5 V
L4 - E1 (E13, 9 - E13, 14) B-L ↔ BR IG ON and Transfer shift lever other than L4 position Below 1.5			IG ON and turn one rear wheel only	Pulse signal is output Below 1.5 ↔ 4 – 6
IG ON and Transfer shift lever other than L4 position Below 1.5		B-L ↔ BR	IG ON and Transfer shift lever L4 position	9.0 – 14
ST - E1 (E13, 7 - E13, 14) G-R ↔ BR IG ON Below 1.5	L4 – E1 (E13, 9 – E13, 14)		IG ON and Transfer shift lever other than L4 position	Below 1.5
	ST - E1 (E13, 7 - E13, 14)	G-R ↔ BR	IG ON	Below 1.5

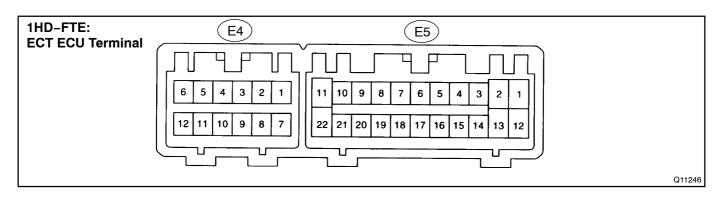
DIAGNOSTICS – AUTOMATIC TRANSMISSION (A442F)

STP - E1 (E14, 2 - E13, 14)	$G-W \Leftrightarrow BR$	IG ON and Brake pedal is depressed	7.5 – 14
		IG ON and Brake pedal is released	Below 1.5



Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
VC - GND (E4, 6 - E5, 8)	LG-R ↔ BR-W	IG ON	4 – 6
VA – GND (E4, 7 – E5, 8)		IG ON and throttle valve fully closed	2.0 – 3.2
	W-L ↔ BR-W	IG ON and throttle valve fully open	0.5 – 0.7
NE ⁺ – NE ⁻ (E4, 5 – E4, 16)	L ↔ BR-W	Engine is running	Pulse signal output
		IG ON and Vehicle stationary	Below 3.0
SP1 - GND (E4, 8 - E5, 8)	V ↔ BR-W	IG ON and Turn one rear wheel slowly	Pulse signal is output Below 1.5 ↔ 4 - 6
		IG ON	9.0 – 14
S1 - GND (E5, 1 - E5, 8)	R ↔ BR-W	1st or 2nd gear	9.0 – 14
		3rd or O/D gear	Below 1.5
		IG ON	Below 1.5
S2 - GND (E4, 11 - E5, 8)	W ↔ BR-W	2nd or 3rd gear	9.0 – 14
		1st or O/D gear	Below 1.5
		IG ON	Below 1.5
SL – GND (E5, 4 – E5, 8)	G ↔ BR-W	Vehicle driving under lock-up position	9.0 – 14
SP2+ - SP2- (E4, 4 - E4, 15)	R ↔ G	Engine is running	Pulse signal is output Below 1.5 ↔ 4 – 6
ST - GND (E5, 6 - E5, 8)	G-R ↔ BR-W	IG ON	Below 1.5
	G-B ↔ BR-W	IG ON and Shift lever L range	9.0 – 14
L – GND (E4, 20 – E5, 8)		IG ON and Shift lever other than L range	Below 1.5
	G ↔ BR-W	IG ON and Shift lever 2 range	9.0 – 14
2 – GND (E4, 9 – E5, 8)		IG ON and Shift lever other than 2 range	Below 1.5
R – GND (E4, 22 – E5, 8)	R-B ↔ BR-W	IG ON and Shift lever R range	9.0 – 14
		IG ON and Shift lever other than R range	Below 1.5
	G-W ↔ BR-W	IG ON and Shift lever P range	9.0 – 14
P - GND (E4, 10 - E5, 8)		IG ON and Shift lever other than P range	Below 1.5
N 0ND (5 . a. 5- a)		IG ON and Shift lever P or N range	9.0 – 14
N – GND (E4, 21 – E5, 8)	G-R ↔ BR-W	IG ON and Shift lever other than N range	Below 1.5
		O/D main switch ON (O/D OFF)	Below 1.5
OD2 – GND (E5, 1 – E5, 8)	B ↔ BR–W	O/D main switch OFF (O/D ON)	9.0 – 14
PWR – GND (E5, 14 – E5, 8)	L-W ↔ BR-W	IG ON and Pattern select switch "PWR"	Below 1.5
		IG ON and Pattern select switch "NORM"	9.0 – 14
SNWO - GND	,, ,,,	IG ON and 2nd start switch ON	9.0 – 14
(E5, 3 – E5, 8)	Y⇔W	IG ON and 2nd start switch OFF	Below 1.5
SNWI - GND	L-R ↔ BR-W	IG ON and 2nd start mode	Below 1.5
(E4, 2 – E5, 8)		IG ON and Except 2nd start mode	9.0 – 14

	LG ↔ BR-W	Engine coolant temperature 55 °C (131 °F) or more	Below 1.5
TSW - GND (E4, 2 - E5, 8)		Engine coolant temperature 43 °C (109 °F) less than	9.0 – 14
	G-W ↔ BR-W	IG ON and Transfer shift lever N position	Below 1.5
TFN – GND (E4, 9 – E5, 8)		IG ON and Transfer shift lever other than N position	9.0 – 14
L4 – GND (E5, 19 – E5, 8)	B–L ↔ BR–W	IG ON and Transfer shift lever L4 position	9.0 – 14
		IG ON and Transfer shift lever other than L4 position	Below 1.5
+B - GND (E4, 10 - E5, 8)	L-W ↔ BR-W	Every time	9.0 – 14
DG – GND (E5, 12 – E5, 8)	G–O ↔ BR–W	IG ON and throttle valve fully closed	Below 1.5
		IG ON and throttle valve fully open	$0 \rightarrow 1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 5 \rightarrow 6 \rightarrow 7 \rightarrow 8$



Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
ECT+ - GND (E5, 6 - E4, 8)	Y ↔ W-B	IG ON and vehicle running	Pulse signal output
ECT GND (E5, 17 - E4, 8)	L ↔ W-B	IG ON and vehicle running	Pulse signal output
	V ↔ W-B	IG ON and Vehicle stationary	Below 3
SP1 - GND (E4, 5 - E4, 8)		IG ON and Turn one rear wheel slowly	Pulse signal is output Below 1.5 ↔ 4 – 6
OIL2 - GND (E5, 16 - E4, 8)	L ↔ W-B	ATF temperature: 115°C (239°F) or more	Below 1.5
		IG ON	9.0 – 14
S1 - GND (E4, 4 - E4, 8)	R ↔ W-B	1st or 2nd gear	9.0 – 14
		3rd or O/D gear	Below 1.5
	W ↔ W-B	IG ON	Below 1.5
S2 - GND (E4, 11 - E4, 8)		2nd or 3rd gear	9.0 – 14
		1st or O/D gear	Below 1.5
SL – GND (E4, 5 – E4, 5)	G ↔ W-B	IG ON	Below 1.5
		Vehicle driving under lock-up position	9.0 – 14
SP2+ - SP2- (E5, 4 - E5, 15)	R ↔ G	Engine is running	Pulse signal is output Below 1.5 ↔ 4 – 6
ST - GND (E4, 6 - E4, 5)	G-R ↔ W-B	IG ON	Below 1.5
L – GND (E5, 20 – E4, 5)	G–B ↔ W–B	IG ON and Shift lever L range	9.0 – 14
		IG ON and Shift lever other than L range	Below 1.5
0 OND (55 0 54 5)	G ↔ W-B	IG ON and Shift lever 2 range	9.0 – 14
2 – GND (E5, 9 – E4, 5)		IG ON and Shift lever other than 2 range	Below 1.5

D CND (FE 11 F4 C)	R-B ↔ W-B	IG ON and Shift lever R range	9.0 – 14
R – GND (E5, 11 – E4, 8)		IG ON and Shift lever other than R range	Below 1.5
D 0115 (55 10 51 0)	G-W ↔ W-B	IG ON and Shift lever P range	9.0 – 14
P – GND (E5, 10 – E4, 8)		IG ON and Shift lever other than P range	Below 1.5
N. 015 (5- 0) 5 (0)	G–R ↔ W–B	IG ON and Shift lever P or N range	9.0 – 14
N – GND (E5, 21 – E4, 8)		IG ON and Shift lever other than N range	Below 1.5
		O/D main switch ON (O/D OFF)	Below 1.5
OD2 – GND (E5, 1 – E4, 8)	B ↔ W-B	O/D main switch OFF (O/D ON)	9.0 – 14
	5	IG ON and Pattern select switch "PWR"	Below 1.5
PWR – GND (E5, 19 – E4, 8)	L-W ↔ W-B	IG ON and Pattern select switch "NORM"	9.0 – 14
SNWO - GND		IG ON and 2nd start switch ON	9.0 – 14
(E5, 13 – E4, 8)	Y ↔ W-B	IG ON and 2nd start switch OFF	Below 1.5
SNWI - GND	L-R ↔ W-B	IG ON and 2nd start mode	Below 1.5
(E5, 8 – E4, 8)		IG ON and Except 2nd start mode	9.0 – 14
TEN OND (E	Y–G ↔ W–B	IG ON and Transfer shift lever N position	Below 1.5
TFN – GND (E4, 2 – E4, 8)		IG ON and Transfer shift lever other than N position	9.0 – 14
	B-L ↔ W-B	IG ON and Transfer shift lever L4 position	9.0 – 14
L4 – GND (E4, 9 – E4, 8)		IG ON and Transfer shift lever other than L4 position	Below 1.5
+B - GND (E4, 10 - E4, 8)	Y–G ↔ W–B	Every time	9.0 – 14
	Y-G ↔ BR-B	IG ON and throttle valve fully closed	Below 1.5
DG – GND (E5, 12 – E4, 8)		IG ON and throttle valve fully open	$0 \rightarrow 1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow$ $5 \rightarrow 6 \rightarrow 7 \rightarrow 8$
	G–W ↔ G–B	IG ON	Below 1.5
SLT+ - SLT- (E4, 11 - E4, 9)		Engine is idling	Pulse signal is output Below 3 ↔ 9.0 - 14