

Carolla 2007 1ZZ-FE ECU Pinout

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ASB71434

Symbols (Terminals No.)	Wiring Color	Terminal Description	Conditions	STD Voltages
BATT (E6-3) - E1 (E3-5)	R-W - BR	Battery (for measuring battery voltage and for ECM memory)	Always	Between 9 V and 14 V
+BM (E5-6) - E1 (E3-5)	B-R - BR	Power source of throttle motor	Always	Between 9 V and 14 V
IGSW (E6-9) - E1 (E3-5)	B-O - BR	Ignition switch	Ignition switch ON	Between 9 V and 14 V
+B (E6-1) - E1 (E3-5)	B - BR	Power source of ECM	Ignition switch ON	Between 9 V and 14 V
MREL (E6-8) - E1 (E3-5)	B-W - BR	EFI relay	Ignition switch ON	Between 9 V and 14 V
VC (E3-18) - E2 (E3-28)	Y - BR	Power source of sensor (specific voltage)	Ignition switch ON	Between 4.5 V and 5.5 V
VTA1 (E3-21) - E2 (E3-28)	LG - BR	Throttle position sensor (for engine control)	Ignition switch ON, Accelerator pedal fully released	Between 0.5 V and 1.1 V
VTA1 (E3-21) - E2 (E3-28)	LG - BR	Throttle position sensor (for engine control)	Ignition switch ON, Accelerator pedal fully depressed	Between 3.3 V and 4.9 V
VTA2 (E3-31) - E2 (E3-28)	LG - BR	Throttle position sensor (for sensor malfunction detection)	Ignition switch ON, Accelerator pedal fully released	Between 2.1 V and 3.1 V
VTA2 (E3-31) - E2 (E3-28)	LG - BR	Throttle position sensor (for sensor malfunction detection)	Ignition switch ON, Accelerator pedal fully depressed	Between 4.5 V and 5.5 V
VPA (E6-22) - EPA (E6-28)	G - Y	Accelerator pedal position sensor (for engine control)	Ignition switch ON, Accelerator pedal fully released	Between 0.5 V and 1.1 V
VPA (E6-22) - EPA (E6-28)	G - Y	Accelerator pedal position sensor (for engine control)	Ignition switch ON, Accelerator pedal fully depressed	Between 2.6 V and 4.5 V
VPA2 (E6-23) - EPA2 (E6-29)	W - Y	Accelerator pedal position sensor (for sensor malfunction detection)	Ignition switch ON, Accelerator pedal fully released	Between 1.2 V and 2.0 V
VPA2 (E6-23) - EPA2 (E6-29)	W - Y	Accelerator pedal position sensor (for sensor malfunction detection)	Ignition switch ON, Accelerator pedal fully depressed	Between 3.4 V and 5.3 V
VCRA (E6-26) - EPA (E6-28)	B - Y	Power source of accelerator pedal position sensor (for VPA)	Ignition switch ON	Between 4.5 V and 5.5 V
VCP2 (E6-27) - EPA2 (E6-29)	B - Y	Power source of accelerator pedal position sensor (for VPA2)	Ignition switch ON	Between 4.5 V and 5.5 V
VG (E3-30) - EVG (E3-29)	G - L-W	Mass air flow meter	Idling, Shift position P or N, A/C switch OFF	Between 0.5 V and 3.0 V
THA (E3-20) - E2 (E3-28)	Y-B - BR	Intake air temperature sensor	Idling, Intake air temperature 20°C (68°F)	Between 0.5 V and 3.4 V
THW (E3-19) - E2 (E3-28)	W - BR	Engine coolant temperature sensor	Idling, Engine coolant temperature 80°C (176°F)	Between 0.2 V and 1.0 V
#10 (E3-1) - E01 (E3-7) #20 (E3-2) - E01 (E3-7) #30 (E3-3) - E01 (E3-7) #40 (E3-4) - E01 (E3-7)	Y - W-B B - W-B W - W-B L - W-B	Injector	Ignition switch ON	Between 9 V and 14 V

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