

# Toyota Yaris 2010 1.5L 1NZ-FE ECU Pinsout

(C20)



**EFi Autos**  
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(A21)



| Symbol (Terminal No.)           | Wiring Color | Terminal Description                                                    | Condition                                             | Specified Condition               |
|---------------------------------|--------------|-------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------|
| BATT (A21-20) - E1 (C20-104)    | Y - W        | Battery (for measuring battery voltage and for ECM memory)              | Always                                                | 11 to 14 V                        |
| +BM (A21-3) - ME01 (C20-43)     | GR - BR      | Power source of throttle actuator                                       | Always                                                | 11 to 14 V                        |
| IGSW (A21-26) - E1 (C20-104)    | R - W        | Ignition switch                                                         | Ignition switch ON                                    | 11 to 14 V                        |
| +B (A21-2) - E1 (C20-104)       | B - W        | Power source of ECM                                                     | Ignition switch ON                                    | 11 to 14 V                        |
| +B2 (A21-1) - E1 (C20-104)      | B - W        | Power source of ECM                                                     | Ignition switch ON                                    | 11 to 14 V                        |
| OC1+ (C20-100) - OC1- (C20-123) | BR - R       | Camshaft timing oil control valve (OCV)                                 | Idling                                                | Pulse generation (see waveform 1) |
| MREL (A21-44) - E1 (C20-104)    | GR - W       | EFI relay                                                               | Ignition switch ON                                    | 11 to 14 V                        |
| VG (C20-116) - E2G (C20-116)    | GR - LG      | Mass air flow meter                                                     | Idling, Transmission gear neutral, A/C switch OFF     | 0.5 to 3.0 V                      |
| THA (C20-66) - ETHA (C20-66)    | P - BE       | Intake air temperature sensor                                           | Idling, Intake air temperature 20°C (68°F)            | 0.5 to 3.4 V                      |
| THW (C20-97) - ETHW (C20-96)    | L - P        | Engine coolant temperature sensor                                       | Idling, Engine coolant temperature 80°C (176°F)       | 0.2 to 1.0 V                      |
| VCTA (C20-57) - ETA (C20-91)    | W - V        | Power source of throttle position sensor (specific voltage)             | Ignition switch ON                                    | 4.5 to 5.5 V                      |
| VTA1 (C20-115) - ETA (C20-91)   | Y - V        | Throttle position sensor (for engine control)                           | Ignition switch ON, Throttle valve fully closed       | 0.5 to 1.1 V                      |
|                                 |              |                                                                         | Ignition switch ON, Throttle valve fully open         | 3.2 to 4.6 V                      |
| VTA2 (C20-114) - ETA (C20-91)   | GR - V       | Throttle position sensor (for sensor malfunction detection)             | Ignition switch ON, Throttle valve fully closed       | 2.1 to 3.1 V                      |
|                                 |              |                                                                         | Ignition switch ON, Throttle valve fully open         | 4.5 to 5.0 V                      |
| VPA (A21-55) - EPA (A21-59)     | R - G        | Accelerator pedal position sensor (for engine control)                  | Ignition switch ON, Accelerator pedal released        | 0.5 to 1.1 V                      |
|                                 |              |                                                                         | Ignition switch ON, Accelerator pedal fully depressed | 2.5 to 4.5 V                      |
| VPA2 (A21-56) - EPA2 (A21-60)   | L - BR       | Accelerator pedal position sensor (for sensor malfunctioning detection) | Ignition switch ON, Accelerator pedal released        | 1.2 to 2.0 V                      |
|                                 |              |                                                                         | Ignition switch ON, Accelerator pedal fully depressed | 3.4 to 4.7 V                      |
| VCPA (A21-57) - EPA (A21-59)    | B - G        | Power source of accelerator pedal position sensor (for VPA)             | Ignition switch ON                                    | 4.5 to 5.5 V                      |
| VCP2 (A21-58) - EPA2 (A21-60)   | W - BR       | Power source of accelerator pedal position sensor (for VPA2)            | Ignition switch ON                                    | 4.5 to 5.5 V                      |
| HA1A (C20-109) - E04 (C20-46)   | G - W-B      | A/F sensor heater                                                       | Idling with warm engine                               | Pulse generation (see waveform 2) |
| A1A+ (C20-112) - E1 (C20-104)   | V - W        | A/F sensor                                                              | Ignition switch ON                                    | 11 to 14 V                        |
| A1A- (C20-113) - E1 (C20-104)   | LG - W       | A/F sensor                                                              | Ignition switch ON                                    | 3.3 V                             |
|                                 |              |                                                                         | Ignition switch ON                                    | 2.9 V                             |

# Toyota Faq Ecu Code

**James D. Halderman, Chase D. Mitchell,  
Jr., Corey W. Glassman**

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web 1 print the template onto regular paper 2 tape or very lightly glue stick one edge of the template to the card 3 through the paper into the card score all the fold lines with an embossing point 4 cut all the cut lines with a scalpel or xacto 5