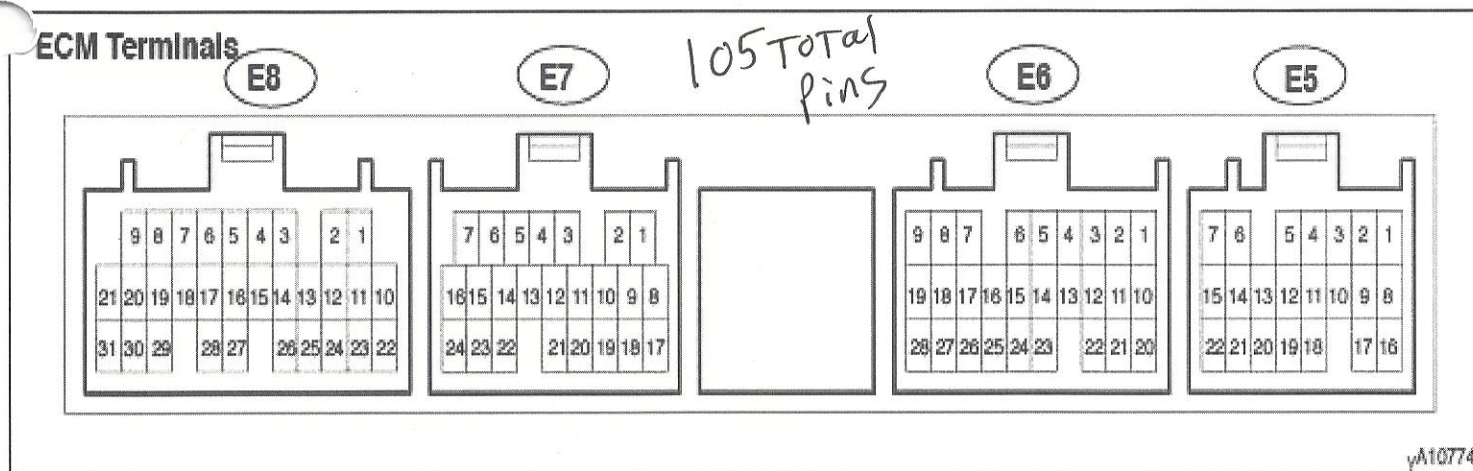


**2004 Tacoma 3RZ-FE 4x4 ECM terminals, automatic vs. manual**  
**All data compiled from the 2004 factory service manual wiring guide**

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**NOTE:** For each ECU connector + pin, identical A/T and M/T values for each column have a white background, while different or non-existent values for that column have a gray background.  
 N/A indicates that a given connector + pin exists for one transmission type only.

| Connector | Pin | Auto Function | Auto Wire Color | Manual Function | Manual Wire Color | Error          | Note                   |
|-----------|-----|---------------|-----------------|-----------------|-------------------|----------------|------------------------|
| E5        | 1   | BATT          | B-Y             | BATT            | B-Y               | w/Red          | BATT Constant ZOA      |
| E5        | 2   | R             | R-B             | N/A             | N/A               | white          | Reverse Detect         |
| E5        | 3   | L             | R               | N/A             | N/A               | Red            | low detect             |
| E5        | 4   | 2             | P               | N/A             | N/A               | R/Blue         | 2 Detect               |
| E5        | 5   | OILW          | O               | N/A             | N/A               | white/Black    | oil temp light Dash    |
| E5        | 6   | W             | V-R             | W               | V-R               | white/Black    | MIL                    |
| E5        | 7   | STA           | G               | STA             | G                 | violet         | Clutch Start Cancel    |
| E5        | 9   | TFN           | L               | N/A             | N/A               | Green 8        | ATP lamp Dash?         |
| E5        | 10  | ODLP          | L-O             | N/A             | N/A               | Red 9<br>white | (10) Black yellow lamp |
| E5        | 11  | OD1           | R-Y             | N/A             | N/A               | Black/blue     | Cruise Control OUTPUT  |
| E5        | 12  | SIL           | W               | SIL             | W                 | Blue           | Data Connector Pin 7   |
| E5        | 13  | AC1           | L-Y             | AC1             | L-Y               | Blue/Red       | AC Control             |
| E5        | 14  | ACT           | L-B             | ACT             | L-B               | Blue/yellow    | AC Control             |

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| Connector | Pin | Auto Function | Auto Wire Color | Manual Function | Manual Wire Color | Error         | Note                               |
|-----------|-----|---------------|-----------------|-----------------|-------------------|---------------|------------------------------------|
| E5        | 15  | STP           | G-W             | STP             | G-W               | -             | Brake lamp <sup>signal</sup> In    |
| E5        | 16  | +B            | W-R             | +B              | W-R               | -             | Switched B+ 20A                    |
| E5        | 17  | PWR           | GR-R            | N/A             | N/A               | -             | ECT Trans button shift pattern     |
| E5        | 19  | L4            | GR              | L4              | GR                | -             | low 4 Detect                       |
| E5        | 20  | ELS           | G-R             | ELS             | G-R               |               | From tail fuse 12+ Post tail relay |
| E5        | 21  | SP1           | G-O             | SP1             | G-O               |               | vehicle speed combi meter          |
| E5        | 22  | NSW           | Y-GR            | NSW             | Y-GR              |               | NEUTRAL SAFETY SWITCH. AT ONLY     |
| E6        | 5   | IDLO          | LG-R            | IDLO            | LG-R              |               | Cruise Control                     |
| E6        | 7   | TC            | Y-B             | TC              | Y-B               |               | OBDII Pin 13                       |
| E6        | 8   | PTNK          | R-Y             | PTNK            | R-Y               |               | Vapor Pressure                     |
| E6        | 9   | D             | B-W             | N/A             | N/A               |               | Shifter Drive Position             |
| E6        | 10  | 4WD           | G-B             | 4WD             | G-B               |               | hi 4 Detect                        |
| E6        | 13  | TAC (W/TAC)   | LG-B            | TAC (W/TAC)     | LG-B              |               | Tac out Signal                     |
| E6        | 14  | SP2+          | Y-R             | N/A             | N/A               | vehicle speed | maybe Trans speed output           |
| E6        | 23  | SP2-          | W-R             | N/A             | N/A               | vehicle speed | maybe Trans output speed           |
| E6        | 25  | ODMS          | LG              | N/A             | N/A               |               | OD Switch                          |
| E6        | 28  | PSW           | Y               | PSW             | Y                 |               | Power Steering Pressure Sensor     |
| E7        | 1   | CCV           | R-L             | CCV             | R-L               |               | Charcoal canister closed Valve     |
| E7        | 2   | VC            | G-Y             | VC              | G-Y               |               | Signal AF2 B1 sensor 2             |
| E7        | 3   | HTS           | R-W             | HTS             | R-W               |               | Ground Ref AF2 B1 sensor 2         |
| E7        | 4   | AFHT          | W               | AFHT            | W                 |               | Heated sensor B1 Sensor 1          |
| E7        | 5   | EGR           | R-B             | EGR             | R-B               |               | EGR Temp Sensor                    |
| E7        | 6   | FC            | W-L             | FC              | W-L               |               | Fuel pump Control                  |

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| Connector | Pin | Auto Function | Auto Wire Color | Manual Function | Manual Wire Color | Error | Note                                  |
|-----------|-----|---------------|-----------------|-----------------|-------------------|-------|---------------------------------------|
| E7        | 7   | TBP           | G-B             | TBP             | G-B               |       | Pressure switching valve              |
| E7        | 9   | VTA           | Y               | VTA             | Y                 |       | Throttle Position                     |
| E7        | 10  | OXS           | B               | OXS             | B                 |       | O <sub>2</sub> Signal Bank 2 sensor 2 |
| E7        | 11  | AF+           | V               | AF+             | V                 |       | O <sub>2</sub> Signal Bank 1 sensor 1 |
| E7        | 12  | THW           | G-R             | THW             | G-R               |       | Coolant Temp                          |
| E7        | 14  | VG            | GR              | VG              | GR                |       | Air flow signal                       |
| E7        | 15  | G2+           | R               | G2+             | R                 |       | Cam Signal +                          |
| E7        | 16  | NE+           | L               | NE+             | L                 |       | Crank +                               |
| E7        | 17  | E1            | BR              | E1              | BR                |       | Ground Ground                         |
| E7        | 18  | E2            | L-B             | E2              | L-B               |       | Ground Trans Temp                     |
| E7        | 19  | THG           | P-L             | THG             | P-L               |       | EGR Temp Sensor                       |
| E7        | 20  | AF-           | P               | AF-             | P                 |       | Ground Ref AF Signal Bank 1 sensor 1  |
| E7        | 21  | THA           | Y-G             | THA             | Y-G               |       | intake air temp                       |
| E7        | 22  | EVG           | B-W             | EVG             | B-W               |       | Mass Air flow Ground                  |
| E7        | 24  | NE-           | G               | NE-             | G                 |       | Crank - / Cam signal                  |
| E8        | 1   | #10           | W-R             | #10             | W-R               |       | Injector +                            |
| E8        | 2   | #20           | W               | #20             | W                 |       | Injector +                            |
| E8        | 3   | #30           | R               | #30             | R                 |       | Injector +                            |
| E8        | 4   | #40           | R-L             | #40             | R-L               |       | Injector                              |
| E8        | 5   | E03           | W-B             | E03             | W-B               |       | Grounded near throttle body           |
| E8        | 6   | E04           | W-B             | E04             | W-B               |       | Grounded near throttle body           |
| E8        | 7   | S1            | V               | N/A             | N/A               |       | Shift Solenoid                        |
| E8        | 8   | S2            | LG              | N/A             | N/A               |       | Shift Solenoid                        |

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| Connector | Pin | Auto Function | Auto Wire Color | Manual Function | Manual Wire Color | Error | Note                         |
|-----------|-----|---------------|-----------------|-----------------|-------------------|-------|------------------------------|
| E8        | 9   | SL            | R-W             | N/A             | N/A               |       | Shift Solenoid               |
| E8        | 10  | IGF           | B-Y             | IGF             | B-Y               |       | Grounded Coil feedback       |
| E8        | 11  | IGT1          | B-L             | IGT1            | B-L               |       | Coil tr                      |
| E8        | 12  | IGT2          | L               | IGT2            | L                 |       | Coil tr                      |
| E8        | 13  | IGT3          | L-R             | IGT3            | L-R               |       | Coil tr                      |
| E8        | 14  | IGT4          | L-Y             | IGT4            | L-Y               |       | Coil tr                      |
| E8        | 15  | RSD           | B-R             | RSD             | B-R               |       | Idle Control                 |
| E8        | 21  | E01           | W-B             | E01             | W-B               |       | Grounded near throttle body? |
| E8        | 26  | THO           | Y-R             | N/A             | N/A               |       | Trans temp?                  |
| E8        | 28  | KNK           | B               | KNK             | B                 |       | Knock-signal 1 wire          |
| E8        | 31  | E02           | W-B             | E02             | W-B               |       | Sensor Ground                |

3RZ has  
No Converter  
Lockup  
5VZ Trans has  
Converter lockup

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3RZ + Pinks = 46 PSI  
2RZ + Pinks = 412 PSI  
330-370 CC @ 43.5 PSI

12.2  $\Omega$  Injectors  
-13.4  $\Omega$

Paradise Racing  
3RZ 650 CC  
\$339.00