

## BMW Fault Codes (DTCs)

Below is a comprehensive listing of BMW DTCs and the corresponding SAE P-codes.

**Table a. Diagnostic trouble codes (DTCs)**

| BMW code | P-code | Fault type and function                  | Signal type and range                   | Explanation  |
|----------|--------|--|---|--|
| 1        |        | Ignition coil cyl.2                      | Input analog timing (100 mV)            | DME initiates secondary ignition for each cylinder then looks for feedback through shunt resistor in harness to determine if ignition actually occurred. |
| 2        |        | Ignition coil cyl.4                      | Input analog timing (100 mV)            | DME initiates secondary ignition for each cylinder then looks for feedback through shunt resistor in harness to determine if ignition actually occurred. |
| 3        |        | Ignition coil cyl.6                      | Input analog timing (100 mV)            | DME initiates secondary ignition for each cylinder then looks for feedback through shunt resistor in harness to determine if ignition actually occurred. |
| 5        | P0202  | Injector circuit cyl. 2                  | Output digital pulse width (active low) | DME final stage will set flag whenever a short to ground, a short to battery voltage or a disconnection between output transistor and component exists.  |
| 6        | P0201  | Injector circuit cyl. 1                  | Output digital pulse width (active low) | DME final stage will set flag whenever a short to ground, a short to battery voltage or a disconnection between output transistor and component exists.  |
| 8        | P0101  | Mass air flow circuit range/perf.        | Input analog (0-5V)                     | Failed signal range check against predefined diagnostic limits.  |
| 10       |        | Engine coolant temp. circuit range/perf. | Input analog (0-5V)                     | Signal range is checked against predefined diagnostic limits within specific engine operations.  |
| 11       |        | Coolant temp. coolant outlet             | Input analog (0-5V)                     | Signal range is checked against predefined diagnostic limits within specific engine operations.  |
| 14       | P0111  | Intake air temp. range/performance       | Input analog (0-5V)                     | Signal range is checked against predefined diagnostic limits within specific engine operations.  |
| 18       | P1397  | Exhaust cam                              | Input analog                            | Internal check of phase shift from   |

# Manual E46 Fault Code

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