

**2002 BMW X5 30i**

2002 DTC INDEX BMW

**2002 DTC INDEX****BMW****SELF-DIAGNOSTICS DTCS****SELF-DIAGNOSTICS DIAGNOSTIC TROUBLE CODES (DTC) LIST - ECU: MSS54, ENGINE: S54,  
FROM 9-1-01 To 8-31-02**

| <b>PCode</b> | <b>BMW-FC</b> | <b>PCode Text</b>                                                         | <b>Diagnosis</b>                                                                         |
|--------------|---------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| P0011        | 184           | "A" Camshaft Position Timing Over-Advanced Or System Performance (Bank 1) | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 8 OF 10)</u></b> |
| P0012        | 184           | "A" Camshaft Position Timing Over-Retarded (Bank 1)                       | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 8 OF 10)</u></b> |
| P0014        | 185           | "B" Camshaft Position Timing Over-Advanced Or System Performance (Bank 1) | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 8 OF 10)</u></b> |
| P0015        | 185           | "B" Camshaft Position Timing Over-Retarded (Bank 1)                       | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 8 OF 10)</u></b> |
| P0030        | 37            | HO2S Heater Control Circuit (Bank 1 Sensor 1)                             | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 5 OF 10)</u></b> |
| P0031        | 37            | HO2S Heater Control Circuit Low (Bank 1 Sensor 1)                         | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 5 OF 10)</u></b> |
| P0032        | 37            | HO2S Heater Control Circuit High (Bank 1 Sensor 1)                        | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 5 OF 10)</u></b> |
| P0036        | 39            | HO2S Heater Control Circuit (Bank 1 Sensor 2)                             | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 6 OF 10)</u></b> |
| P0037        | 39            | HO2S Heater Control Circuit Low (Bank 1 Sensor 2)                         | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 6 OF 10)</u></b> |
| P0038        | 39            | HO2S Heater Control Circuit High (Bank 1 Sensor 2)                        | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 6 OF 10)</u></b> |
| P0050        | 38            | HO2S Heater Control Circuit (Bank 2 Sensor 1)                             | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 5 OF 10)</u></b> |
| P0051        | 38            | HO2S Heater Control                                                       | See <b><u>DTC CHART (ENGINE TYPE:</u></b>                                                |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     |                                                                     |                                                                                                                            |
|-------|-----|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
|       |     | Circuit Low (Bank 2 Sensor 1)                                       | <u><b>S54B32 LEV/TEST GROUP:</b></u><br><u><b>2BMXV03.2S54 - 5 OF 10)</b></u>                                              |
| P0052 | 38  | HO2S Heater Control Circuit High (Bank 2 Sensor 1)                  | See <u><b>DTC CHART (ENGINE TYPE:</b></u><br><u><b>S54B32 LEV/TEST GROUP:</b></u><br><u><b>2BMXV03.2S54 - 5 OF 10)</b></u> |
| P0056 | 40  | HO2S Heater Control Circuit (Bank 2 Sensor 2)                       | See <u><b>DTC CHART (ENGINE TYPE:</b></u><br><u><b>S54B32 LEV/TEST GROUP:</b></u><br><u><b>2BMXV03.2S54 - 6 OF 10)</b></u> |
| P0057 | 40  | HO2S Heater Control Circuit Low (Bank 2 Sensor 2)                   | See <u><b>DTC CHART (ENGINE TYPE:</b></u><br><u><b>S54B32 LEV/TEST GROUP:</b></u><br><u><b>2BMXV03.2S54 - 6 OF 10)</b></u> |
| P0058 | 40  | HO2S Heater Control Circuit High (Bank 2 Sensor 2)                  | See <u><b>DTC CHART (ENGINE TYPE:</b></u><br><u><b>S54B32 LEV/TEST GROUP:</b></u><br><u><b>2BMXV03.2S54 - 6 OF 10)</b></u> |
| P0101 | 73  | Mass or Volume Air Flow Circuit Range/Performance                   | See <u><b>DTC CHART (ENGINE TYPE:</b></u><br><u><b>S54B32 LEV/TEST GROUP:</b></u><br><u><b>2BMXV03.2S54 - 6 OF 10)</b></u> |
| P0102 | 41  | Mass or Volume Air Flow Circuit Low Input                           | See <u><b>DTC CHART (ENGINE TYPE:</b></u><br><u><b>S54B32 LEV/TEST GROUP:</b></u><br><u><b>2BMXV03.2S54 - 6 OF 10)</b></u> |
| P0103 | 41  | Mass or Volume Air Flow Circuit High Input                          | See <u><b>DTC CHART (ENGINE TYPE:</b></u><br><u><b>S54B32 LEV/TEST GROUP:</b></u><br><u><b>2BMXV03.2S54 - 6 OF 10)</b></u> |
| P0111 | 77  | Intake Air Temperature Sensor 1 Circuit Range/Performance           | See <u><b>DTC CHART (ENGINE TYPE:</b></u><br><u><b>S54B32 LEV/TEST GROUP:</b></u><br><u><b>2BMXV03.2S54 - 7 OF 10)</b></u> |
| P0112 | 77  | Intake Air Temperature Sensor 1 Circuit Low                         | See <u><b>DTC CHART (ENGINE TYPE:</b></u><br><u><b>S54B32 LEV/TEST GROUP:</b></u><br><u><b>2BMXV03.2S54 - 7 OF 10)</b></u> |
| P0113 | 77  | Intake Air Temperature Sensor 1 Circuit High                        | See <u><b>DTC CHART (ENGINE TYPE:</b></u><br><u><b>S54B32 LEV/TEST GROUP:</b></u><br><u><b>2BMXV03.2S54 - 7 OF 10)</b></u> |
| P0116 | 105 | Engine Coolant Temperature Circuit Range/Performance                | See <u><b>DTC CHART (ENGINE TYPE:</b></u><br><u><b>S54B32 LEV/TEST GROUP:</b></u><br><u><b>2BMXV03.2S54 - 6 OF 10)</b></u> |
| P0117 | 78  | Engine Coolant Temperature Circuit Low                              | See <u><b>DTC CHART (ENGINE TYPE:</b></u><br><u><b>S54B32 LEV/TEST GROUP:</b></u><br><u><b>2BMXV03.2S54 - 6 OF 10)</b></u> |
| P0118 | 78  | Engine Coolant Temperature Circuit High                             | See <u><b>DTC CHART (ENGINE TYPE:</b></u><br><u><b>S54B32 LEV/TEST GROUP:</b></u><br><u><b>2BMXV03.2S54 - 6 OF 10)</b></u> |
| P0121 | 118 | Throttle/Pedal Position Sensor/Switch "A" Circuit Range/Performance | See <u><b>DTC CHART (ENGINE TYPE:</b></u><br><u><b>S54B32 LEV/TEST GROUP:</b></u><br><u><b>2BMXV03.2S54 - 9 OF 10)</b></u> |
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**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

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|-------|-----|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| P0121 | 120 | Throttle/Pedal Position Sensor/Switch "A" Circuit Range/Performance              | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 9 OF 10)</u></b>                                                     |
| P0121 | 121 | Throttle/Pedal Position Sensor/Switch "A" Circuit Range/Performance              | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 9 OF 10)</u></b>                                                     |
| P0122 | 118 | Throttle/Pedal Position Sensor/Switch "A" Circuit Low                            | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 9 OF 10)</u></b>                                                     |
| P0123 | 118 | Throttle/Pedal Position Sensor/Switch "A" Circuit High                           | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 9 OF 10)</u></b>                                                     |
| P0128 | 105 | Coolant Thermostat (Coolant Temperature Below Thermostat Regulating Temperature) | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P0131 | 13  | O2 Sensor Circuit Low Voltage (Bank 1, Sensor 1)                                 | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 5 OF 10)</u></b>                                                     |
| P0132 | 13  | O2 Sensor Circuit High Voltage (Bank 1, Sensor 1)                                | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 5 OF 10)</u></b>                                                     |
| P0133 | 214 | O2 Sensor Circuit Slow Response (Bank 1, Sensor 1)                               | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 4 OF 10)</u></b>                                                     |
| P0134 | 13  | O2 Sensor Circuit No Activity Detected (Bank 1, Sensor 1)                        | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 5 OF 10)</u></b>                                                     |
| P0134 | 218 | O2 Sensor Circuit No Activity Detected (Bank 1, Sensor 1)                        | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 5 OF 10)</u></b>                                                     |
| P0135 | 37  | O2 Sensor Heater Circuit (Bank 1, Sensor 1)                                      | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 5 OF 10)</u></b>                                                     |
| P0137 | 87  | O2 Sensor Circuit Low Voltage (Bank 1, Sensor 2)                                 | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 6 OF 10)</u></b>                                                     |
| P0138 | 87  | O2 Sensor Circuit High Voltage (Bank 1, Sensor 2)                                | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 6 OF 10)</u></b>                                                     |
| P0139 | 92  | O2 Sensor Circuit Slow Response (Bank 1, Sensor 2)                               | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 5 OF 10)</u></b>                                                     |
|       |     |                                                                                  |                                                                                                                                              |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     |                                                           |                                                                                                                                                                  |
|-------|-----|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P0140 | 87  | O2 Sensor Circuit No Activity Detected (Bank 1, Sensor 2) | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 6 OF 10)</u></b>                                                                         |
| P0141 | 39  | O2 Sensor Heater Circuit (Bank 1, Sensor 2)               | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 6 OF 10)</u></b>                                                                         |
| P0151 | 12  | O2 Sensor Circuit Low Voltage (Bank 2, Sensor 1)          | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 5 OF 10)</u></b>                                                                         |
| P0152 | 12  | O2 Sensor Circuit High Voltage (Bank 2, Sensor 1)         | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 5 OF 10)</u></b>                                                                         |
| P0153 | 215 | O2 Sensor Circuit Slow Response (Bank 2, Sensor 1)        | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 4 OF 10)</u></b>                                                                         |
| P0154 | 12  | O2 Sensor Circuit No Activity Detected (Bank 2, Sensor 1) | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 4 OF 10) -DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 5 OF 10)</u></b> |
| P0154 | 219 | O2 Sensor Circuit No Activity Detected (Bank 2, Sensor 1) | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                     |
| P0155 | 38  | O2 Sensor Heater Circuit (Bank 2, Sensor 1)               | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 5 OF 10)</u></b>                                                                         |
| P0157 | 88  | O2 Sensor Circuit Low Voltage (Bank 2, Sensor 2)          | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 6 OF 10)</u></b>                                                                         |
| P0158 | 88  | O2 Sensor Circuit High Voltage (Bank 2, Sensor 2)         | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 6 OF 10)</u></b>                                                                         |
| P0159 | 93  | O2 Sensor Circuit Slow Response (Bank 2, Sensor 2)        | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 5 OF 10)</u></b>                                                                         |
| P0160 | 88  | O2 Sensor Circuit No Activity Detected (Bank 2, Sensor 2) | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 5 OF 10)</u></b>                                                                         |
| P0161 | 40  | O2 Sensor Heater Circuit (Bank 2, Sensor 2)               | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 5 OF 10)</u></b>                                                                         |
| P0171 | 144 | System Too Lean (Bank 1)                                  | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 4 OF 10)</u></b>                                                                         |
|       |     |                                                           |                                                                                                                                                                  |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       |                                                   |                                                                                   |
|-------|-------|---------------------------------------------------|-----------------------------------------------------------------------------------|
| P0171 | 174   | System Too Lean (Bank 1)                          | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 4 OF 10)</u> |
| P0172 | 144   | System Too Rich (Bank 1)                          | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 4 OF 10)</u> |
| P0172 | 174   | System Too Rich (Bank 1)                          | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 4 OF 10)</u> |
| P0174 | 145   | System Too Lean (Bank 2)                          | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 4 OF 10)</u> |
| P0174 | 175   | System Too Lean (Bank 2)                          | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 4 OF 10)</u> |
| P0175 | 145   | System Too Rich (Bank 2)                          | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 4 OF 10)</u> |
| P0175 | 175   | System Too Rich (Bank 2)                          | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 4 OF 10)</u> |
| P0201 | 3     | Injector Circuit/Open - Cylinder 1                | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 8 OF 10)</u> |
| P0202 | 5     | Injector Circuit/Open - Cylinder 2                | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 8 OF 10)</u> |
| P0203 | 4     | Injector Circuit/Open - Cylinder 3                | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 8 OF 10)</u> |
| P0204 | 33    | Injector Circuit/Open - Cylinder 4                | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 8 OF 10)</u> |
| P0205 | 31    | Injector Circuit/Open - Cylinder 5                | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 8 OF 10)</u> |
| P0206 | 32    | Injector Circuit/Open - Cylinder 6                | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 8 OF 10)</u> |
| P0216 | ..... | Injection Valve Overheat Protection               | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 8 OF 10)</u> |
| P0221 | 119   | Throttle/Pedal Position Sensor/Switch "B" Circuit | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 9 OF 10)</u> |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     | Range/Performance                                            |                                                                                                  |
|-------|-----|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| P0222 | 119 | Throttle/Pedal Position<br>Sensor/Switch "B"<br>Circuit Low  | See <u><b>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 9 OF 10)</b></u> |
| P0223 | 119 | Throttle/Pedal Position<br>Sensor/Switch "B"<br>Circuit High | See <u><b>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 9 OF 10)</b></u> |
| P0261 | 3   | Cylinder 1 Injector<br>Circuit Low                           | See <u><b>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 8 OF 10)</b></u> |
| P0262 | 3   | Cylinder 1 Injector<br>Circuit High                          | See <u><b>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 8 OF 10)</b></u> |
| P0264 | 5   | Cylinder 2 Injector<br>Circuit Low                           | See <u><b>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 8 OF 10)</b></u> |
| P0265 | 5   | Cylinder 2 Injector<br>Circuit High                          | See <u><b>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 8 OF 10)</b></u> |
| P0267 | 4   | Cylinder 3 Injector<br>Circuit Low                           | See <u><b>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 8 OF 10)</b></u> |
| P0268 | 4   | Cylinder 3 Injector<br>Circuit High                          | See <u><b>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 8 OF 10)</b></u> |
| P0270 | 33  | Cylinder 4 Injector<br>Circuit Low                           | See <u><b>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 8 OF 10)</b></u> |
| P0271 | 33  | Cylinder 4 Injector<br>Circuit High                          | See <u><b>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 8 OF 10)</b></u> |
| P0273 | 31  | Cylinder 5 Injector<br>Circuit Low                           | See <u><b>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 8 OF 10)</b></u> |
| P0274 | 31  | Cylinder 5 Injector<br>Circuit High                          | See <u><b>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 8 OF 10)</b></u> |
| P0276 | 32  | Cylinder 6 Injector<br>Circuit Low                           | See <u><b>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 8 OF 10)</b></u> |
| P0277 | 32  | Cylinder 6 Injector<br>Circuit High                          | See <u><b>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 8 OF 10)</b></u> |
| P0300 | 213 | Random/Multiple<br>Cylinder Misfire                          | See <u><b>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:</b></u>                             |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     | Detected                                                        | <u>2BMXV03.2S54 - 1 OF 10)</u>                                                                                                               |
|-------|-----|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| P0301 | 205 | Cylinder 1, Misfire Detected                                    | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 1 OF 10)</u>                                                            |
| P0302 | 206 | Cylinder 2, Misfire Detected                                    | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 1 OF 10)</u>                                                            |
| P0303 | 207 | Cylinder 3, Misfire Detected                                    | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 1 OF 10)</u>                                                            |
| P0304 | 208 | Cylinder 4, Misfire Detected                                    | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 1 OF 10)</u>                                                            |
| P0305 | 209 | Cylinder 5, Misfire Detected                                    | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 1 OF 10)</u>                                                            |
| P0306 | 210 | Cylinder 6, Misfire Detected                                    | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 1 OF 10)</u>                                                            |
| P0335 | 16  | Crankshaft Position Sensor "A" Circuit                          | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 7 OF 10)</u>                                                            |
| P0340 | 7   | Camshaft Position Sensor "A" Circuit (Bank 1 or Single Sensor)  | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 7 OF 10)</u>                                                            |
| P0365 | 10  | Camshaft Position Sensor "B" Circuit (Bank 1)                   | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 7 OF 10)</u>                                                            |
| P0369 | 162 | Camshaft Position Sensor "B" Circuit Intermittent (Bank 1)      | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 7 OF 10)</u>                                                            |
| P0394 | 15  | Camshaft Position Sensor "B" Circuit Intermittent (Bank 2)      | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P0411 | 170 | Secondary Air Injection System Incorrect Flow Detected          | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 3 OF 10)</u>                                                            |
| P0413 | 63  | Secondary Air Injection System Switching Valve "A" Circuit Open | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P0414 | 63  | Secondary Air Injection System Switching Valve                  | Diagnostic information is not available. Use BMW Diagnostic Information System Plus                                                          |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       | "A" Circuit Shorted                                                   | (DISplus) or Group Tester One (GT-1) to<br>diagnose system.                                      |
|-------|-------|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| P0418 | 19    | Secondary Air Injection<br>System Control "A"<br>Circuit              | See <b><u>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 3 OF 10)</u></b> |
| P0420 | 178   | Catalyst System<br>Efficiency Below<br>Threshold (Bank 1)             | See <b><u>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 1 OF 10)</u></b> |
| P0430 | 179   | Catalyst System<br>Efficiency Below<br>Threshold (Bank 2)             | See <b><u>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 1 OF 10)</u></b> |
| P0441 | 232   | Evaporative Emission<br>System Incorrect Purge<br>Flow                | See <b><u>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 2 OF 10)</u></b> |
| P0442 | 180   | Evaporative Emission<br>System Leak Detected<br>(Small leak)          | See <b><u>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 3 OF 10)</u></b> |
| P0443 | 36    | Evaporative Emission<br>System Purge Control<br>Valve Circuit         | See <b><u>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 2 OF 10)</u></b> |
| P0444 | 36    | Evaporative Emission<br>System Purge Control<br>Valve Circuit Open    | See <b><u>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 2 OF 10)</u></b> |
| P0445 | 36    | Evaporative Emission<br>System Purge Control<br>Valve Circuit Shorted | See <b><u>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 2 OF 10)</u></b> |
| P0491 | 170   | Secondary Air Injection<br>System Insufficient Flow<br>(Bank 1)       | See <b><u>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 3 OF 10)</u></b> |
| P0492 | 170   | Secondary Air Injection<br>System Insufficient Flow<br>(Bank 2)       | See <b><u>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 3 OF 10)</u></b> |
| P0500 | 135   | Vehicle Speed Sensor<br>"A"                                           | See <b><u>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 7 OF 10)</u></b> |
| P0505 | ..... | Idle Air Control Valve<br>Functional Check                            | See <b><u>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 9 OF 10)</u></b> |
| P0506 | 128   | Idle Air Control System<br>RPM Lower Than<br>Expected                 | See <b><u>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 9 OF 10)</u></b> |
| P0507 | 128   | Idle Air Control System<br>RPM Higher Than<br>Expected                | See <b><u>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 9 OF 10)</u></b> |
| P0601 | 150   | Internal Control Module                                               | See <b><u>DTC CHART (ENGINE TYPE:</u></b>                                                        |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       | Memory Check Sum Error                                   | <b><u>S54B32 LEV/TEST GROUP:</u></b><br><b><u>2BMXV03.2S54 - 9 OF 10)</u></b>                                                                |
|-------|-------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| P0601 | 157   | Internal Control Module Memory Check Sum Error           | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P0604 | 150   | Internal Control Module Random Access Memory (RAM) Error | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P0604 | 157   | Internal Control Module Random Access Memory (RAM) Error | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P0605 | 150   | Internal Control Module Read Only Memory (ROM) Error     | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>S54B32 LEV/TEST GROUP:</u></b><br><b><u>2BMXV03.2S54 - 10 OF 10)</u></b>                  |
| P0605 | 157   | Internal Control Module Read Only Memory (ROM) Error     | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>S54B32 LEV/TEST GROUP:</u></b><br><b><u>2BMXV03.2S54 - 10 OF 10)</u></b>                  |
| P0606 | 30    | ECM/PCM Processor                                        | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>S54B32 LEV/TEST GROUP:</u></b><br><b><u>2BMXV03.2S54 - 10 OF 10)</u></b>                  |
| P0606 | 107   | ECM/PCM Processor                                        | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>S54B32 LEV/TEST GROUP:</u></b><br><b><u>2BMXV03.2S54 - 10 OF 10)</u></b>                  |
| P0606 | 158   | ECM/PCM Processor                                        | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>S54B32 LEV/TEST GROUP:</u></b><br><b><u>2BMXV03.2S54 - 10 OF 10)</u></b>                  |
| P0606 | 163   | ECM/PCM Processor                                        | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>S54B32 LEV/TEST GROUP:</u></b><br><b><u>2BMXV03.2S54 - 10 OF 10)</u></b>                  |
| P07XX | ..... | .....                                                    | These codes apply to electronically controlled transmissions.                                                                                |
| P09XX | ..... | .....                                                    | These codes apply to electronically controlled transmissions.                                                                                |
| P1111 | ..... | Coolant Temperature Range Check (Minimum)                | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>S54B32 LEV/TEST GROUP:</u></b><br><b><u>2BMXV03.2S54 - 7 OF 10)</u></b>                   |
| P1112 | ..... | Coolant Temperature Range Check (Maximum)                | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>S54B32 LEV/TEST GROUP:</u></b><br><b><u>2BMXV03.2S54 - 7 OF 10)</u></b>                   |
| P1121 | 111   | Pedal Position Sensor 1, Range/Performance Problem       | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>S54B32 LEV/TEST GROUP:</u></b><br><b><u>2BMXV03.2S54 - 9 OF 10)</u></b>                   |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     |                                                                                       |                                                                                                                                                       |
|-------|-----|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| P1122 | 60  | Pedal Position Sensor 1,<br>Low Input                                                 | See <b><u>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 9 OF 10)</u></b>                                                      |
| P1123 | 60  | Pedal Position Sensor 1,<br>High Input                                                | See <b><u>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 9 OF 10)</u></b>                                                      |
| P1178 | 216 | O2 Sensor Signal Circuit<br>Slow Switching from<br>Rich to Lean (Bank 1,<br>Sensor 1) | See <b><u>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 4 OF 10)</u></b>                                                      |
| P1179 | 217 | O2 Sensor Signal Circuit<br>Slow Switching from<br>Rich to Lean (Bank 2,<br>Sensor 1) | See <b><u>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 4 OF 10)</u></b>                                                      |
| P1221 | 112 | Pedal Position Sensor 2<br>Range/Performance<br>Problem                               | See <b><u>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 9 OF 10)</u></b>                                                      |
| P1222 | 61  | Pedal Position Sensor 2,<br>Low Input                                                 | See <b><u>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 9 OF 10)</u></b>                                                      |
| P1223 | 61  | Pedal Position Sensor 2,<br>High Input                                                | See <b><u>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 9 OF 10)</u></b>                                                      |
| P1340 | 213 | Multiple Cylinder<br>Misfire During Start                                             | Diagnostic information is not available. Use<br>BMW Diagnostic Information System Plus<br>(DISplus) or Group Tester One (GT-1) to<br>diagnose system. |
| P1341 | 204 | Multiple Cylinder<br>Misfire with Fuel Cut-<br>Off                                    | Diagnostic information is not available. Use<br>BMW Diagnostic Information System Plus<br>(DISplus) or Group Tester One (GT-1) to<br>diagnose system. |
| P1342 | 205 | Misfire During<br>Start ,Cylinder 1                                                   | See <b><u>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 1 OF 10)</u></b>                                                      |
| P1343 | 196 | Misfire Cylinder 1 with<br>Fuel Cut-Off                                               | See <b><u>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 1 OF 10)</u></b>                                                      |
| P1344 | 206 | Misfire During Start,<br>Cylinder 2                                                   | See <b><u>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 1 OF 10)</u></b>                                                      |
| P1345 | 197 | Misfire Cylinder 2 with<br>Fuel Cut-Off                                               | See <b><u>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:<br/>2BMXV03.2S54 - 1 OF 10)</u></b>                                                      |
| P1346 | 207 | Misfire During Start,<br>Cylinder 3                                                   | See <b><u>DTC CHART (ENGINE TYPE:<br/>S54B32 LEV/TEST GROUP:</u></b>                                                                                  |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       |                                                                                             |                                                                                          |
|-------|-------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
|       |       |                                                                                             | <b><u>2BMXV03.2S54 - 1 OF 10)</u></b>                                                    |
| P1347 | 198   | Misfire Cylinder 3 with Fuel Cut-Off                                                        | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 1 OF 10)</u></b> |
| P1348 | 208   | Misfire During Start, Cylinder 4                                                            | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 1 OF 10)</u></b> |
| P1349 | 199   | Misfire Cylinder 4 with Fuel Cut-Off                                                        | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 1 OF 10)</u></b> |
| P1350 | 209   | Misfire during Start, Cylinder 5                                                            | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 1 OF 10)</u></b> |
| P1351 | 200   | Misfire Cylinder 5 with Fuel Cut-Off                                                        | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 1 OF 10)</u></b> |
| P1352 | 210   | Misfire during Start, Cylinder 6                                                            | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 1 OF 10)</u></b> |
| P1353 | 201   | Misfire Cylinder 6 with Fuel Cut-Off                                                        | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 1 OF 10)</u></b> |
| P1434 | 176   | Diagnostic Module Tank Leakage (DM-TL)                                                      | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 3 OF 10)</u></b> |
| P1446 | ..... | Leak Diagnosis Module Circuit Continuity                                                    | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 2 OF 10)</u></b> |
| P1447 | 127   | Diagnostic Module Tank Leakage (DM-TL) Pump Current Too High during Switching Solenoid Test | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 2 OF 10)</u></b> |
| P1448 | 127   | Diagnostic Module Tank Leakage (DM-TL) Pump Current Too Low                                 | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 2 OF 10)</u></b> |
| P1449 | 127   | Diagnostic Module Tank Leakage (DM-TL) Pump Current Too High                                | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 2 OF 10)</u></b> |
| P1450 | 27    | Diagnostic Module Tank Leakage (DM-TL) Switching Solenoid Control Open Circuit              | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 2 OF 10)</u></b> |
| P1451 | 27    | Diagnostic Module Tank Leakage (DM-TL) Switching Solenoid                                   | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 2 OF 10)</u></b> |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       |                                                                                       |                                                                                                                                                                  |
|-------|-------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |       | Control Circuit Signal Low                                                            |                                                                                                                                                                  |
| P1452 | 27    | Diagnostic Module Tank Leakage (DM-TL) Switching Solenoid Control Circuit Signal High | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 2 OF 10)</u></b>                                                                         |
| P1500 | ..... | Idle Air Control Valve Open                                                           | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 9 OF 10)</u></b>                                                                         |
| P1501 | ..... | Idle Air Control Valve Closed                                                         | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 9 OF 10)</u></b>                                                                         |
| P1502 | 2     | Idle-Speed Control Valve Closing Solenoid Control Circuit Signal High                 | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 8 OF 10)</u></b>                                                                         |
| P1503 | 2     | Idle-Speed Control Valve Closing Solenoid Control Circuit Signal Low                  | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 8 OF 10)</u></b>                                                                         |
| P1504 | 2     | Idle-Speed Control Valve Closing Solenoid Control Open Circuit                        | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 8 OF 10)</u></b>                                                                         |
| P1506 | 29    | Idle-Speed Control Valve Opening Solenoid Control Circuit Signal High                 | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 8 OF 10) -DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 9 OF 10)</u></b> |
| P1507 | 29    | Idle-Speed Control Valve Opening Solenoid Control Circuit Signal Low                  | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 8 OF 10) -DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 9 OF 10)</u></b> |
| P1508 | 29    | Idle-Speed Control Valve Opening Solenoid Control Open Circuit                        | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 8 OF 10)</u></b>                                                                         |
| P1525 | 67    | "A" Camshaft Position Actuator Control Open Circuit (Bank 1)                          | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 7 OF 10)</u></b>                                                                         |
| P1525 | 72    | "A" Camshaft Position Actuator Control Open Circuit (Bank 1)                          | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 7 OF 10)</u></b>                                                                         |
| P1531 | 21    | "B" Camshaft Position Actuator Control Open                                           | See <b><u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP:</u></b>                                                                                                 |

# 2002 BMW X5 30i

## 2002 DTC INDEX BMW

|       |       | Circuit (Bank 1)                                                   | <u>2BMXV03.2S54 - 7 OF 10)</u>                                                                                                               |
|-------|-------|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| P1531 | 22    | "B" Camshaft Position Actuator Control Open Circuit (Bank 1)       | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 7 OF 10)</u>                                                            |
| P1585 | 149   | Misfire Detected with Low Fuel                                     | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P1602 | 122   | Control Module Self-Test, Control Module Defective                 | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P1602 | 231   | Control Module Self-Test, Control Module Defective                 | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P1603 | ..... | ECM Functional Check                                               | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 10 OF 10)</u>                                                           |
| P1634 | 107   | Throttle Valve Adaptation Spring Test Failed                       | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 9 OF 10)</u>                                                            |
| P1636 | 45    | Throttle Valve Control Circuit                                     | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 9 OF 10)</u>                                                            |
| P1637 | 107   | Throttle Valve Position Control, Control Deviation                 | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 9 OF 10)</u>                                                            |
| P1637 | 230   | Throttle Valve Position Control, Control Deviation                 | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 9 OF 10)</u>                                                            |
| P1639 | 107   | Throttle Valve Position Control Throttle Stuck Permanently         | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 9 OF 10)</u>                                                            |
| P1640 | 155   | Internal Control Module RAM/ROM Error                              | See <u>DTC CHART (ENGINE TYPE: S54B32 LEV/TEST GROUP: 2BMXV03.2S54 - 9 OF 10)</u>                                                            |
| P1640 | 156   | Internal Control Module RAM/ROM Error                              | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P1663 | 155   | EWS (Electronic Immobilizer) Rolling Code Faulty Storage in EEPROM | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       |                                                                    |                                                                                                                                              |
|-------|-------|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| P1663 | 156   | EWS (Electronic Immobilizer) Rolling Code Faulty Storage in EEPROM | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P17XX | ..... | .....                                                              | These codes apply to electronically controlled transmissions.                                                                                |
| P18XX | ..... | .....                                                              | These codes apply to electronically controlled transmissions.                                                                                |

**SELF-DIAGNOSTICS DIAGNOSTIC TROUBLE CODES (DTC) LIST - ECU: MSS52, ENGINE: S62, FROM 9-1-01 To 8-31-02**

| PCode | BMW-FC | PCode Text                                                                | Diagnosis                                                                                 |
|-------|--------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| P0011 | 184    | "A" Camshaft Position Timing Over-Advanced Or System Performance (Bank 1) | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 8 OF 10)</u></b> |
| P0012 | 184    | "A" Camshaft Position Timing Over-Retarded (Bank 1)                       | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 8 OF 10)</u></b> |
| P0014 | 185    | "B" Camshaft Position Timing Over-Advanced Or System Performance (Bank 1) | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 8 OF 10)</u></b> |
| P0015 | 185    | "B" Camshaft Position Timing Over-Retarded (Bank 1)                       | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 8 OF 10)</u></b> |
| P0021 | 113    | "A" Camshaft Position Timing Over-Advanced Or System Performance (Bank 2) | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 8 OF 10)</u></b> |
| P0022 | 113    | "A" Camshaft Position Timing Over-Retarded (Bank 2)                       | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 8 OF 10)</u></b> |
| P0024 | 114    | "B" Camshaft Position Timing Over-Advanced Or System Performance (Bank 2) | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 8 OF 10)</u></b> |
| P0025 | 114    | "B" Camshaft Position Timing Over-Retarded (Bank 2)                       | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 8 OF 10)</u></b> |
| P0030 | 37     | HO2S Heater Control Circuit (Bank 1, Sensor 1)                            | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 5 OF 10)</u></b> |
| P0031 | 37     | HO2S Heater Control Circuit Low (Bank 1,                                  | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 5</u></b>        |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |    | Sensor 1)                                                 | OF 10)                                                                                    |
|-------|----|-----------------------------------------------------------|-------------------------------------------------------------------------------------------|
| P0032 | 37 | HO2S Heater Control Circuit High (Bank 1, Sensor 1)       | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 5 OF 10)</u></b> |
| P0036 | 39 | HO2S Heater Control Circuit (Bank 1, Sensor 2)            | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 6 OF 10)</u></b> |
| P0037 | 39 | HO2S Heater Control Circuit Low (Bank 1, Sensor 2)        | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 6 OF 10)</u></b> |
| P0038 | 39 | HO2S Heater Control Circuit High (Bank 1, Sensor 2)       | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 6 OF 10)</u></b> |
| P0050 | 38 | HO2S Heater Control Circuit (Bank 2, Sensor 1)            | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 5 OF 10)</u></b> |
| P0051 | 38 | HO2S Heater Control Circuit Low (Bank 2, Sensor 1)        | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 5 OF 10)</u></b> |
| P0052 | 38 | HO2S Heater Control Circuit High (Bank 2, Sensor 1)       | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 5 OF 10)</u></b> |
| P0056 | 40 | HO2S Heater Control Circuit (Bank 2, Sensor 2)            | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 6 OF 10)</u></b> |
| P0057 | 40 | HO2S Heater Control Circuit Low (Bank 2, Sensor 2)        | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 6 OF 10)</u></b> |
| P0058 | 40 | HO2S Heater Control Circuit High (Bank 2, Sensor 2)       | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 6 OF 10)</u></b> |
| P0101 | 73 | Mass or Volume Air Flow Circuit Range/Performance         | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 6 OF 10)</u></b> |
| P0102 | 41 | Mass or Volume Air Flow Circuit Low Input                 | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 6 OF 10)</u></b> |
| P0103 | 41 | Mass or Volume Air Flow Circuit High Input                | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 6 OF 10)</u></b> |
| P0111 | 77 | Intake Air Temperature Sensor 1 Circuit Range/Performance | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 7 OF 10)</u></b> |
| P0112 | 77 | Intake Air Temperature Sensor 1 Circuit Low               | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 7 OF 10)</u></b> |

# 2002 BMW X5 30i

## 2002 DTC INDEX BMW

|       |     |                                                                                  | <b>OF 10)</b>                                                                                               |
|-------|-----|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| P0113 | 77  | Intake Air Temperature Sensor 1 Circuit High                                     | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 7</u></b><br><b><u>OF 10)</u></b>  |
| P0116 | 105 | Engine Coolant Temperature Circuit Range/Performance                             | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 7</u></b><br><b><u>OF 10)</u></b>  |
| P0117 | 78  | Engine Coolant Temperature Circuit Low                                           | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 7</u></b><br><b><u>OF 10)</u></b>  |
| P0118 | 78  | Engine Coolant Temperature Circuit High                                          | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 7</u></b><br><b><u>OF 10)</u></b>  |
| P0121 | 118 | Throttle/Pedal Position Sensor/Switch "A" Circuit Range/Performance              | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 10</u></b><br><b><u>OF 10)</u></b> |
| P0121 | 120 | Throttle/Pedal Position Sensor/Switch "A" Circuit Range/Performance              | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 10</u></b><br><b><u>OF 10)</u></b> |
| P0121 | 121 | Throttle/Pedal Position Sensor/Switch "A" Circuit Range/Performance              | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 10</u></b><br><b><u>OF 10)</u></b> |
| P0122 | 118 | Throttle/Pedal Position Sensor/Switch "A" Circuit Low                            | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 10</u></b><br><b><u>OF 10)</u></b> |
| P0123 | 118 | Throttle/Pedal Position Sensor/Switch "A" Circuit High                           | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 10</u></b><br><b><u>OF 10)</u></b> |
| P0128 | 105 | Coolant Thermostat (Coolant Temperature Below Thermostat Regulating Temperature) | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 7</u></b><br><b><u>OF 10)</u></b>  |
| P0131 | 13  | O2 Sensor Circuit Low Voltage (Bank 1, Sensor 1)                                 | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 5</u></b><br><b><u>OF 10)</u></b>  |
| P0132 | 13  | O2 Sensor Circuit High Voltage (Bank 1, Sensor 1)                                | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 5</u></b><br><b><u>OF 10)</u></b>  |
| P0133 | 214 | O2 Sensor Circuit Slow Response (Bank 1, Sensor 1)                               | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 4</u></b><br><b><u>OF 10)</u></b>  |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     |                                                           |                                                                                                                                                                    |
|-------|-----|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P0134 | 13  | O2 Sensor Circuit No Activity Detected (Bank 1, Sensor 1) | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 5 OF 10)</u></b>                                                                          |
| P0134 | 218 | O2 Sensor Circuit No Activity Detected (Bank 1, Sensor 1) | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 4 OF 10)</u></b>                                                                          |
| P0135 | 37  | O2 Sensor Heater Circuit (Bank 1, Sensor 1)               | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 5 OF 10)</u></b>                                                                          |
| P0137 | 87  | O2 Sensor Circuit Low Voltage (Bank 1, Sensor 2)          | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 6 OF 10)</u></b>                                                                          |
| P0138 | 87  | O2 Sensor Circuit High Voltage (Bank 1, Sensor 2)         | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 5 OF 10)</u></b>                                                                          |
| P0139 | 92  | O2 Sensor Circuit Slow Response (Bank 1, Sensor 2)        | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 5 OF 10)</u></b>                                                                          |
| P0140 | 87  | O2 Sensor Circuit No Activity Detected (Bank 1, Sensor 2) | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 6 OF 10)</u></b>                                                                          |
| P0141 | 39  | O2 Sensor Heater Circuit (Bank 1, Sensor 2)               | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 6 OF 10)</u></b>                                                                          |
| P0151 | 12  | O2 Sensor Circuit Low Voltage (Bank 2, Sensor 1)          | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 5 OF 10)</u></b>                                                                          |
| P0152 | 12  | O2 Sensor Circuit High Voltage (Bank 2, Sensor 1)         | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 5 OF 10)</u></b>                                                                          |
| P0153 | 215 | O2 Sensor Circuit Slow Response (Bank 2, Sensor 1)        | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 4 OF 10)</u></b>                                                                          |
| P0154 | 12  | O2 Sensor Circuit No Activity Detected (Bank 2, Sensor 1) | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 4 OF 10) -DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 5 OF 10)</u></b> |
| P0154 | 219 | O2 Sensor Circuit No Activity Detected (Bank 2, Sensor 1) | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 4 OF 10) -DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 5 OF 10)</u></b> |
| P0155 | 38  | O2 Sensor Heater Circuit (Bank 2, Sensor                  | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 5</u></b>                                                                                 |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     | 1)                                                        | OF 10)                                                                                    |
|-------|-----|-----------------------------------------------------------|-------------------------------------------------------------------------------------------|
| P0157 | 88  | O2 Sensor Circuit Low Voltage (Bank 2, Sensor 2)          | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 6 OF 10)</u></b> |
| P0158 | 88  | O2 Sensor Circuit High Voltage (Bank 2, Sensor 2)         | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 5 OF 10)</u></b> |
| P0159 | 93  | O2 Sensor Circuit Slow Response (Bank 2, Sensor 2)        | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 5 OF 10)</u></b> |
| P0160 | 88  | O2 Sensor Circuit No Activity Detected (Bank 2, Sensor 2) | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 5 OF 10)</u></b> |
| P0161 | 40  | O2 Sensor Heater Circuit (Bank 2, Sensor 2)               | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 6 OF 10)</u></b> |
| P0171 | 144 | System Too Lean (Bank 1)                                  | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 4 OF 10)</u></b> |
| P0171 | 174 | System Too Lean (Bank 1)                                  | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 4 OF 10)</u></b> |
| P0172 | 144 | System Too Rich (Bank 1)                                  | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 4 OF 10)</u></b> |
| P0172 | 174 | System Too Rich (Bank 1)                                  | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 4 OF 10)</u></b> |
| P0174 | 145 | System Too Lean (Bank 2)                                  | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 4 OF 10)</u></b> |
| P0174 | 175 | System Too Lean (Bank 2)                                  | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 4 OF 10)</u></b> |
| P0175 | 145 | System Too Rich (Bank 2)                                  | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 4 OF 10)</u></b> |
| P0175 | 175 | System Too Rich (Bank 2)                                  | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 4 OF 10)</u></b> |
| P0201 | 3   | Injector Circuit/Open - Cylinder 1                        | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 9 OF 10)</u></b> |
| P0202 | 5   | Injector Circuit/Open - Cylinder 2                        | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 9 OF 10)</u></b> |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       |                                                                     | <b>OF 10)</b>                                                                                               |
|-------|-------|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| P0203 | 4     | Injector Circuit/Open - Cylinder 3                                  | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 9</u></b><br><b><u>OF 10)</u></b>  |
| P0204 | 33    | Injector Circuit/Open - Cylinder 4                                  | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 9</u></b><br><b><u>OF 10)</u></b>  |
| P0205 | 31    | Injector Circuit/Open - Cylinder 5                                  | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 9</u></b><br><b><u>OF 10)</u></b>  |
| P0206 | 32    | Injector Circuit/Open - Cylinder 6                                  | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 9</u></b><br><b><u>OF 10)</u></b>  |
| P0207 | 34    | Injector Circuit/Open - Cylinder 7                                  | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 9</u></b><br><b><u>OF 10)</u></b>  |
| P0208 | 35    | Injector Circuit/Open - Cylinder 8                                  | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 9</u></b><br><b><u>OF 10)</u></b>  |
| P0216 | ..... | Injection Valve Driver State                                        | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 8</u></b><br><b><u>OF 10)</u></b>  |
| P0221 | 119   | Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 10</u></b><br><b><u>OF 10)</u></b> |
| P0222 | 119   | Throttle/Pedal Position Sensor/Switch "B" Circuit Low               | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 10</u></b><br><b><u>OF 10)</u></b> |
| P0223 | 119   | Throttle/Pedal Position Sensor/Switch "B" Circuit High              | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 10</u></b><br><b><u>OF 10)</u></b> |
| P0261 | 3     | Cylinder 1 Injector Circuit Low                                     | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 9</u></b><br><b><u>OF 10)</u></b>  |
| P0262 | 3     | Cylinder 1 Injector Circuit High                                    | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 9</u></b><br><b><u>OF 10)</u></b>  |
| P0264 | 5     | Cylinder 2 Injector Circuit Low                                     | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 9</u></b><br><b><u>OF 10)</u></b>  |
| P0265 | 5     | Cylinder 2 Injector Circuit High                                    | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 9</u></b><br><b><u>OF 10)</u></b>  |
| P0267 | 4     | Cylinder 3 Injector                                                 | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b>                                                            |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     |                                                 |                                                                                                                             |
|-------|-----|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
|       |     | Circuit Low                                     | <b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 9</u></b><br><b><u>OF 10)</u></b>                                                     |
| P0268 | 4   | Cylinder 3 Injector<br>Circuit High             | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 9</u></b><br><b><u>OF 10)</u></b> |
| P0270 | 33  | Cylinder 4 Injector<br>Circuit Low              | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 9</u></b><br><b><u>OF 10)</u></b> |
| P0271 | 33  | Cylinder 4 Injector<br>Circuit High             | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 9</u></b><br><b><u>OF 10)</u></b> |
| P0273 | 31  | Cylinder 5 Injector<br>Circuit Low              | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 9</u></b><br><b><u>OF 10)</u></b> |
| P0274 | 31  | Cylinder 5 Injector<br>Circuit High             | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 9</u></b><br><b><u>OF 10)</u></b> |
| P0276 | 32  | Cylinder 6 Injector<br>Circuit Low              | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 9</u></b><br><b><u>OF 10)</u></b> |
| P0277 | 32  | Cylinder 6 Injector<br>Circuit High             | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 9</u></b><br><b><u>OF 10)</u></b> |
| P0279 | 34  | Cylinder 7 Injector<br>Circuit Low              | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 9</u></b><br><b><u>OF 10)</u></b> |
| P0280 | 34  | Cylinder 7 Injector<br>Circuit High             | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 9</u></b><br><b><u>OF 10)</u></b> |
| P0282 | 35  | Cylinder 8 Injector<br>Circuit Low              | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 9</u></b><br><b><u>OF 10)</u></b> |
| P0283 | 35  | Cylinder 8 Injector<br>Circuit High             | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 9</u></b><br><b><u>OF 10)</u></b> |
| P0300 | 213 | Random/Multiple<br>Cylinder Misfire<br>Detected | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 1</u></b><br><b><u>OF 10)</u></b> |
| P0301 | 205 | Cylinder 1 Misfire<br>Detected                  | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 1</u></b><br><b><u>OF 10)</u></b> |
| P0302 | 206 | Cylinder 2 Misfire<br>Detected                  | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 1</u></b><br><b><u>OF 10)</u></b> |
| P0303 | 207 | Cylinder 3 Misfire                              | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b>                                                                            |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     | Detected                                                       | <b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 1</u></b><br><b><u>OF 10)</u></b>                                                     |
|-------|-----|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| P0304 | 208 | Cylinder 4 Misfire Detected                                    | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 1</u></b><br><b><u>OF 10)</u></b> |
| P0305 | 209 | Cylinder 5 Misfire Detected                                    | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 1</u></b><br><b><u>OF 10)</u></b> |
| P0306 | 210 | Cylinder 6 Misfire Detected                                    | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 1</u></b><br><b><u>OF 10)</u></b> |
| P0307 | 211 | Cylinder 7 Misfire Detected                                    | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 1</u></b><br><b><u>OF 10)</u></b> |
| P0308 | 212 | Cylinder 8 Misfire Detected                                    | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 1</u></b><br><b><u>OF 10)</u></b> |
| P0335 | 16  | Crankshaft Position Sensor "A" Circuit                         | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 8</u></b><br><b><u>OF 10)</u></b> |
| P0340 | 7   | Camshaft Position Sensor "A" Circuit (Bank 1 or Single Sensor) | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 8</u></b><br><b><u>OF 10)</u></b> |
| P0345 | 8   | Camshaft Position Sensor "A" Circuit (Bank 2)                  | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 8</u></b><br><b><u>OF 10)</u></b> |
| P0365 | 10  | Camshaft Position Sensor "B" Circuit (Bank 1)                  | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 8</u></b><br><b><u>OF 10)</u></b> |
| P0369 | 162 | Camshaft Position Sensor "B" Circuit Intermittent (Bank 1)     | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 8</u></b><br><b><u>OF 10)</u></b> |
| P0390 | 11  | Camshaft Position Sensor "B" Circuit (Bank 2)                  | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 8</u></b><br><b><u>OF 10)</u></b> |
| P0394 | 15  | Camshaft Position Sensor "B" Circuit Intermittent (Bank 2)     | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 8</u></b><br><b><u>OF 10)</u></b> |
| P0411 | 170 | Secondary Air Injection System Incorrect Flow Detected         | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 8</u></b><br><b><u>OF 10)</u></b> |
| P0412 | 63  | Secondary Air Injection System Switching Valve "A"             | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 8</u></b><br><b><u>OF 10)</u></b> |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       |                                                                    |                                                                                           |
|-------|-------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| P0413 | 63    | Secondary Air Injection System Switching Valve "A" Circuit Open    | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 8 OF 10)</u></b> |
| P0414 | 63    | Secondary Air Injection System Switching Valve "A" Circuit Shorted | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 3 OF 10)</u></b> |
| P0418 | 19    | Secondary Air Injection System Control "A" Circuit                 | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 4 OF 10)</u></b> |
| P0420 | 178   | Catalyst System Efficiency Below Threshold (Bank 1)                | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 1 OF 10)</u></b> |
| P0430 | 179   | Catalyst System Efficiency Below Threshold (Bank 2)                | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 1 OF 10)</u></b> |
| P0441 | 232   | Evaporative Emission System Incorrect Purge Flow                   | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 2 OF 10)</u></b> |
| P0442 | 180   | Evaporative Emission System Leak Detected (Small Leak)             | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 3 OF 10)</u></b> |
| P0443 | 36    | Evaporative Emission System Purge Control Valve Circuit            | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 2 OF 10)</u></b> |
| P0444 | 36    | Evaporative Emission System Purge Control Valve Circuit Open       | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 2 OF 10)</u></b> |
| P0445 | 36    | Evaporative Emission System Purge Control Valve Circuit Shorted    | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 2 OF 10)</u></b> |
| P0491 | 170   | Secondary Air Injection System Insufficient Flow (Bank 1)          | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 3 OF 10)</u></b> |
| P0492 | 170   | Secondary Air Injection System Insufficient Flow (Bank 2)          | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 3 OF 10)</u></b> |
| P0500 | 135   | Vehicle Speed Sensor "A"                                           | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 7 OF 10)</u></b> |
| P0505 | ..... | Idle Air Control Valve Functional Check                            | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 9 OF 10)</u></b> |
| P0506 | 128   | Idle Air Control System RPM Lower Than Expected                    | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 9 OF 10)</u></b> |

## 2002 BMW X5 30i

### 2002 DTC INDEX BMW

|       |       |                                                                |                                                                                                                                                       |
|-------|-------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| P0507 | 128   | Idle Air Control System<br>RPM Higher Than<br>Expected         | See <b><u>DTC CHART (ENGINE TYPE: S62B49<br/>TLEV/TEST GROUP: 2BMXV04.9S62 - 9<br/>OF 10)</u></b>                                                     |
| P0601 | 150   | Internal Control Module<br>Memory Check Sum<br>Error           | See <b><u>DTC CHART (ENGINE TYPE: S62B49<br/>TLEV/TEST GROUP: 2BMXV04.9S62 - 10<br/>OF 10)</u></b>                                                    |
| P0601 | 157   | Internal Control Module<br>Memory Check Sum<br>Error           | See <b><u>DTC CHART (ENGINE TYPE: S62B49<br/>TLEV/TEST GROUP: 2BMXV04.9S62 - 10<br/>OF 10)</u></b>                                                    |
| P0604 | 150   | Internal Control Module<br>Random Access<br>Memory (RAM) Error | Diagnostic information is not available. Use<br>BMW Diagnostic Information System Plus<br>(DISplus) or Group Tester One (GT-1) to<br>diagnose system. |
| P0604 | 157   | Internal Control Module<br>Random Access<br>Memory (RAM) Error | Diagnostic information is not available. Use<br>BMW Diagnostic Information System Plus<br>(DISplus) or Group Tester One (GT-1) to<br>diagnose system. |
| P0605 | 150   | Internal Control Module<br>Read Only Memory<br>(ROM) Error     | See <b><u>DTC CHART (ENGINE TYPE: S62B49<br/>TLEV/TEST GROUP: 2BMXV04.9S62 - 10<br/>OF 10)</u></b>                                                    |
| P0605 | 157   | Internal Control Module<br>Read Only Memory<br>(ROM) Error     | See <b><u>DTC CHART (ENGINE TYPE: S62B49<br/>TLEV/TEST GROUP: 2BMXV04.9S62 - 10<br/>OF 10)</u></b>                                                    |
| P0606 | 30    | ECM/PCM Processor                                              | See <b><u>DTC CHART (ENGINE TYPE: S62B49<br/>TLEV/TEST GROUP: 2BMXV04.9S62 - 10<br/>OF 10)</u></b>                                                    |
| P0606 | 107   | ECM/PCM Processor                                              | See <b><u>DTC CHART (ENGINE TYPE: S62B49<br/>TLEV/TEST GROUP: 2BMXV04.9S62 - 10<br/>OF 10)</u></b>                                                    |
| P0606 | 158   | ECM/PCM Processor                                              | See <b><u>DTC CHART (ENGINE TYPE: S62B49<br/>TLEV/TEST GROUP: 2BMXV04.9S62 - 10<br/>OF 10)</u></b>                                                    |
| P0606 | 163   | ECM/PCM Processor                                              | See <b><u>DTC CHART (ENGINE TYPE: S62B49<br/>TLEV/TEST GROUP: 2BMXV04.9S62 - 10<br/>OF 10)</u></b>                                                    |
| P07XX | ..... | .....                                                          | These codes apply to electronically controlled<br>transmissions.                                                                                      |
| P09XX | ..... | .....                                                          | These codes apply to electronically controlled<br>transmissions.                                                                                      |
| P1111 | ..... | Coolant Temperature<br>Circuit Continuity                      | See <b><u>DTC CHART (ENGINE TYPE: S62B49<br/>TLEV/TEST GROUP: 2BMXV04.9S62 - 7<br/>OF 10)</u></b>                                                     |
| P1112 | ..... | Coolant Temperature<br>Circuit Continuity                      | See <b><u>DTC CHART (ENGINE TYPE: S62B49<br/>TLEV/TEST GROUP: 2BMXV04.9S62 - 7<br/>OF 10)</u></b>                                                     |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       |                                                                              |                                                                                            |
|-------|-------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| P1116 | ..... | Mass or Volume Air Flow Circuit                                              | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 6 OF 10)</u></b>  |
| P1117 | 57    | Mass or Volume Air Flow Circuit Low Input (Bank 2)                           | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 6 OF 10)</u></b>  |
| P1118 | 57    | Mass or Volume Air Flow Circuit High Input (Bank 2)                          | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 6 OF 10)</u></b>  |
| P1121 | 111   | Pedal Position Sensor 1, Range/Performance Problem                           | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 10 OF 10)</u></b> |
| P1122 | 60    | Pedal Position Sensor 1, Low Input                                           | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 10 OF 10)</u></b> |
| P1123 | 60    | Pedal Position Sensor 1, High Input                                          | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 10 OF 10)</u></b> |
| P1178 | 216   | O2 Sensor Signal Circuit Slow Switching from Rich to Lean (Bank 1, Sensor 1) | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 4 OF 10)</u></b>  |
| P1179 | 217   | O2 Sensor Signal Circuit Slow Switching from Rich to Lean (Bank 2, Sensor 1) | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 4 OF 10)</u></b>  |
| P1221 | 112   | Pedal Position Sensor 2, Range/Performance Problem                           | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 10 OF 10)</u></b> |
| P1222 | 61    | Pedal Position Sensor 2, Low Input                                           | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 10 OF 10)</u></b> |
| P1223 | 61    | Pedal Position Sensor 2, High Input                                          | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 10 OF 10)</u></b> |
| P1340 | 213   | Multiple Cylinder Misfire During Start                                       | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 1 OF 10)</u></b>  |
| P1341 | 204   | Multiple Cylinder Misfire With Fuel Cut-Off                                  | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 2 OF 10)</u></b>  |
| P1342 | 205   | Misfire During Start, Cylinder 1                                             | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 1 OF 10)</u></b>  |
| P1343 | 196   | Misfire Cylinder 1 with                                                      | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b>                                           |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     | Fuel Cut-Off                         | <b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 2</u></b><br><b><u>OF 10)</u></b>                                                     |
|-------|-----|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| P1344 | 206 | Misfire During Start, Cylinder 2     | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 1</u></b><br><b><u>OF 10)</u></b> |
| P1345 | 197 | Misfire Cylinder 2 With Fuel Cut-Off | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 2</u></b><br><b><u>OF 10)</u></b> |
| P1346 | 207 | Misfire During Start, Cylinder 3     | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 1</u></b><br><b><u>OF 10)</u></b> |
| P1347 | 198 | Misfire Cylinder 3 With Fuel Cut-Off | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 2</u></b><br><b><u>OF 10)</u></b> |
| P1348 | 208 | Misfire During Start, Cylinder 4     | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 1</u></b><br><b><u>OF 10)</u></b> |
| P1349 | 199 | Misfire Cylinder 4 With Fuel Cut-Off | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 2</u></b><br><b><u>OF 10)</u></b> |
| P1350 | 209 | Misfire During Start ,Cylinder 5     | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 1</u></b><br><b><u>OF 10)</u></b> |
| P1351 | 200 | Misfire Cylinder 5 With Fuel Cut-Off | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 2</u></b><br><b><u>OF 10)</u></b> |
| P1352 | 210 | Misfire During Start ,Cylinder 6     | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 1</u></b><br><b><u>OF 10)</u></b> |
| P1353 | 201 | Misfire Cylinder 6 With Fuel Cut-Off | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 2</u></b><br><b><u>OF 10)</u></b> |
| P1354 | 211 | Misfire During Start, Cylinder 7     | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 1</u></b><br><b><u>OF 10)</u></b> |
| P1355 | 202 | Misfire Cylinder 7 With Fuel Cut-Off | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 2</u></b><br><b><u>OF 10)</u></b> |
| P1356 | 212 | Misfire during Start Cylinder 8      | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 1</u></b><br><b><u>OF 10)</u></b> |
| P1357 | 203 | Misfire Cylinder 8 With Fuel Cut-Off | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b><br><b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 2</u></b><br><b><u>OF 10)</u></b> |
| P1432 | 171 | Secondary Air Injection              | Diagnostic information is not available. Use                                                                                |

## 2002 BMW X5 30i

### 2002 DTC INDEX BMW

|       |       | System Incorrect Flow Detected                                                              | BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
|-------|-------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| P1434 | 176   | Diagnostic Module Tank Leakage (DM-TL)                                                      | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 3 OF 10)</u></b>       |
| P1446 | ..... | Diagnostic Module Tank Leakage (DM-TL) Pump                                                 | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 2 OF 10)</u></b>       |
| P1447 | 127   | Diagnostic Module Tank Leakage (DM-TL) Pump Current Too High During Switching Solenoid Test | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 2 OF 10)</u></b>       |
| P1448 | 127   | Diagnostic Module Tank Leakage (DM-TL) Pump Current Too Low                                 | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 2 OF 10)</u></b>       |
| P1449 | 127   | Diagnostic Module Tank Leakage (DM-TL) Pump Current Too High                                | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 2 OF 10)</u></b>       |
| P1450 | 27    | Diagnostic Module Tank Leakage (DM-TL) Switching Solenoid Control Open Circuit              | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 2 OF 10)</u></b>       |
| P1451 | 27    | Diagnostic Module Tank Leakage (DM-TL) Switching Solenoid Control Circuit Signal Low        | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 2 OF 10)</u></b>       |
| P1452 | 27    | Diagnostic Module Tank Leakage (DM-TL) Switching Solenoid Control Circuit Signal High       | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 2 OF 10)</u></b>       |
| P1500 | ..... | Idle Air Control Valve Open                                                                 | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 9 OF 10)</u></b>       |
| P1501 | ..... | Idle Air Control Valve Closed                                                               | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 9 OF 10)</u></b>       |
| P1502 | 2     | Idle-Speed Control Valve Closing Solenoid Control Circuit Signal High                       | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 9 OF 10)</u></b>       |
| P1503 | 2     | Idle-Speed Control                                                                          | See <b><u>DTC CHART (ENGINE TYPE: S62B49</u></b>                                                |

# 2002 BMW X5 30i

## 2002 DTC INDEX BMW

|       |    |                                                                                                             |                                                                                                                                              |
|-------|----|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
|       |    | Valve Closing Solenoid Control Circuit Signal Low                                                           | <b><u>TLEV/TEST GROUP: 2BMXV04.9S62 - 9 OF 10)</u></b>                                                                                       |
| P1504 | 2  | Idle-Speed Control Valve Closing Solenoid Control Open Circuit                                              | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 9 OF 10)</u></b>                                                    |
| P1506 | 29 | Idle-Speed Control Valve Opening Solenoid Control Circuit Signal High                                       | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 9 OF 10)</u></b>                                                    |
| P1507 | 29 | Idle-Speed Control Valve Opening Solenoid Control Circuit Signal Low                                        | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 9 OF 10)</u></b>                                                    |
| P1508 | 29 | Idle-Speed Control Valve Opening Solenoid Control Open Circuit                                              | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 9 OF 10)</u></b>                                                    |
| P1525 | 67 | "A" Camshaft Position Actuator Control Open Circuit (Bank 1)                                                | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 8 OF 10)</u></b>                                                    |
| P1525 | 72 | "A" Camshaft Position Actuator Control Open Circuit (Bank 1)                                                | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P1526 | 74 | "A" Camshaft Position Actuator Control Open Circuit (Bank 2)                                                | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 8 OF 10)</u></b>                                                    |
| P1526 | 75 | "A" Camshaft Position Actuator Control Open Circuit (Bank 2)                                                | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P1531 | 21 | "B" Camshaft Position Actuator Control Open Circuit (Bank 1)                                                | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 8 OF 10)</u></b>                                                    |
| P1531 | 22 | "B" Camshaft Position Actuator Control Open Circuit (Bank 1)                                                | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P1532 | 83 | "B" Camshaft Position Actuator Control Open Circuit (Bank 2) (S54 to 09/00: Throttle Valve Control Circuit) | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 8 OF 10)</u></b>                                                    |
| P1532 | 84 | "B" Camshaft Position Actuator Control Open                                                                 | See <b><u>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 8</u></b>                                                           |

# 2002 BMW X5 30i

## 2002 DTC INDEX BMW

|       |     | Circuit (Bank 2) (S54 to 09/00: Throttle Valve Control Circuit)    | <b>OF 10)</b>                                                                                                                                |
|-------|-----|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| P1585 | 149 | Misfire Detected with Low Fuel                                     | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P1602 | 122 | Control Module Self-Test, Control Module Defective                 | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P1602 | 231 | Control Module Self-Test, Control Module Defective                 | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P1603 | 195 | Control Module Self-Test, Torque Monitoring                        | See <b>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 10 OF 10)</b>                                                          |
| P1634 | 107 | Throttle Valve Adaptation Spring Test Failed                       | See <b>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 10 OF 10)</b>                                                          |
| P1636 | 45  | Throttle Valve Control Circuit                                     | See <b>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 10 OF 10)</b>                                                          |
| P1637 | 107 | Throttle Valve Position Control, Control Deviation                 | See <b>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 10 OF 10)</b>                                                          |
| P1637 | 230 | Throttle Valve Position Control, Control Deviation                 | See <b>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 10 OF 10)</b>                                                          |
| P1639 | 107 | Throttle Valve Position Control Throttle Stuck Permanently         | See <b>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 10 OF 10)</b>                                                          |
| P1640 | 155 | Internal Control Module RAM/ROM Error                              | See <b>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 10 OF 10)</b>                                                          |
| P1640 | 156 | Internal Control Module RAM/ROM Error                              | See <b>DTC CHART (ENGINE TYPE: S62B49 TLEV/TEST GROUP: 2BMXV04.9S62 - 10 OF 10)</b>                                                          |
| P1663 | 155 | EWS (Electronic Immobilizer) Rolling Code Faulty Storage in EEPROM | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P1663 | 156 | EWS (Electronic Immobilizer) Rolling                               | Diagnostic information is not available. Use BMW Diagnostic Information System Plus                                                          |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       |                                  |                                                                  |
|-------|-------|----------------------------------|------------------------------------------------------------------|
|       |       | Code Faulty Storage in<br>EEPROM | (DISplus) or Group Tester One (GT-1) to<br>diagnose system.      |
| P17XX | ..... | .....                            | These codes apply to electronically controlled<br>transmissions. |
| P18XX | ..... | .....                            | These codes apply to electronically controlled<br>transmissions. |
|       |       |                                  |                                                                  |

**SELF-DIAGNOSTICS DIAGNOSTIC TROUBLE CODES (DTC) LIST - ECU: MS43, ENGINE: M54,  
FROM 9-1-01 To 8-31-02**

| <b>PCode</b> | <b>BMW-FC</b> | <b>PCode Text</b>                                                                  | <b>Diagnosis</b>                                                                                                                                                                              |
|--------------|---------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P0011        | 103           | "A" Camshaft Position<br>Timing Over-Advanced<br>Or System Performance<br>(Bank 1) | Diagnostic information is not available. Use<br>BMW Diagnostic Information System Plus<br>(DISplus) or Group Tester One (GT-1) to<br>diagnose system.                                         |
| P0012        | 105           | "A" Camshaft Position<br>Timing Over-Retarded<br>(Bank 1)                          | See <b><u>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF<br/>8)</u></b> |
| P0014        | 104           | "B" Camshaft Position<br>Timing Over-Advanced<br>Or System Performance<br>(Bank 1) | See <b><u>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF<br/>8)</u></b> |
| P0015        | 106           | "B" Camshaft Position<br>Timing Over-Retarded<br>(Bank 1)                          | See <b><u>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF<br/>8)</u></b> |
| P0030        | 25            | HO2S Heater Control<br>Circuit (Bank 1, Sensor<br>1)                               | See <b><u>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 4 OF<br/>8)</u></b> |
| P0031        | 25            | HO2S Heater Control<br>Circuit Low (Bank 1,<br>Sensor 1)                           | See <b><u>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 4 OF<br/>8)</u></b> |
|              |               |                                                                                    |                                                                                                                                                                                               |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |    |                                                     |                                                                                                                                                                           |
|-------|----|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P0032 | 25 | HO2S Heater Control Circuit High (Bank 1, Sensor 1) | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 4 OF 8)</u></b> |
| P0036 | 79 | HO2S Heater Control Circuit (Bank 1, Sensor 2)      | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 5 OF 8)</u></b> |
| P0037 | 79 | HO2S Heater Control Circuit Low (Bank 1, Sensor 2)  | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 5 OF 8)</u></b> |
| P0038 | 79 | HO2S Heater Control Circuit High (Bank 1, Sensor 2) | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 5 OF 8)</u></b> |
| P0050 | 55 | HO2S Heater Control Circuit (Bank 2, Sensor 1)      | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 4 OF 8)</u></b> |
| P0051 | 55 | HO2S Heater Control Circuit Low (Bank 2, Sensor 1)  | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 4 OF 8)</u></b> |
| P0052 | 55 | HO2S Heater Control Circuit High (Bank 2, Sensor 1) | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 4 OF 8)</u></b> |
| P0056 | 61 | HO2S Heater Control Circuit (Bank 2, Sensor 2)      | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP:</u></b>                                      |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     |                                                                   |                                                                                                                                                                           |
|-------|-----|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |     |                                                                   | <b><u>2BMXV03.0M5R, 2BMXT03.0E5R - 5 OF 8)</u></b>                                                                                                                        |
| P0057 | 61  | HO2S Heater Control Circuit Low (Bank 2, Sensor 2)                | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 5 OF 8)</u></b> |
| P0058 | 61  | HO2S Heater Control Circuit High (Bank 2, Sensor 2)               | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 5 OF 8)</u></b> |
| P0101 | 149 | Mass Or Volume Air Flow Circuit Range/Performance                 | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 6 OF 8)</u></b> |
| P0102 | 8   | Mass Or Volume Air Flow Circuit Low Input                         | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 6 OF 8)</u></b> |
| P0103 | 8   | Mass Or Volume Air Flow Circuit High Input                        | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 6 OF 8)</u></b> |
| P0107 | 197 | Manifold Absolute Pressure/Barometric Pressure Circuit Low Input  | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P0108 | 197 | Manifold Absolute Pressure/Barometric Pressure Circuit High Input | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P0112 | 14  | Intake Air Temperature Sensor 1, Circuit Low                      | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 6 OF 8)</u></b> |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     |                                                                                  |                                                                                                                                                                           |
|-------|-----|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P0113 | 14  | Intake Air Temperature Sensor 1, Circuit High                                    | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 6 OF 8)</u></b> |
| P0117 | 10  | Engine Coolant Temperature, Circuit Low                                          | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 6 OF 8)</u></b> |
| P0118 | 10  | Engine Coolant Temperature, Circuit High                                         | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 6 OF 8)</u></b> |
| P0121 | 118 | Throttle/Pedal Position Sensor/Switch "A" Circuit Range/Performance              | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 5 OF 8)</u></b> |
| P0122 | 112 | Throttle/Pedal Position Sensor/Switch "A" Circuit Low                            | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 5 OF 8)</u></b> |
| P0123 | 112 | Throttle/Pedal Position Sensor/Switch "A" Circuit High                           | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 5 OF 8)</u></b> |
| P0125 | 222 | Insufficient Coolant Temperature for Closed Loop Fuel Control                    | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 6 OF 8)</u></b> |
| P0128 | 168 | Coolant Thermostat (Coolant Temperature Below Thermostat Regulating Temperature) | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP:</u></b>                                      |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     |                                                           |                                                                                                                                                                           |
|-------|-----|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |     |                                                           | <b><u>2BMXV03.0M5R, 2BMXT03.0E5R - 5 OF 8)</u></b>                                                                                                                        |
| P0131 | 150 | O2 Sensor Circuit Low Voltage (Bank 1, Sensor 1)          | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 4 OF 8)</u></b> |
| P0132 | 150 | O2 Sensor Circuit High Voltage (Bank 1, Sensor 1)         | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 4 OF 8)</u></b> |
| P0133 | 229 | O2 Sensor Circuit Slow Response (Bank 1, Sensor 1)        | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 4 OF 8)</u></b> |
| P0134 | 150 | O2 Sensor Circuit No Activity Detected (Bank 1, Sensor 1) | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 4 OF 8)</u></b> |
| P0135 | 188 | O2 Sensor Heater Circuit (Bank 1, Sensor 1)               | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 4 OF 8)</u></b> |
| P0137 | 152 | O2 Sensor Circuit Low Voltage (Bank 1, Sensor 2)          | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u></b> |
| P0138 | 152 | O2 Sensor Circuit High Voltage (Bank 1, Sensor 2)         | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u></b> |
| P0140 | 152 | O2 Sensor Circuit No Activity Detected (Bank              | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST</u></b>                                                                                                     |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     |                                                                 |                                                                                                                                                                                                                                                                |
|-------|-----|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |     | 1, Sensor 2)                                                    | <b><u>GROUP: 2BMXV03.0LER &amp; ENGINE</u></b><br><b><u>TYPE: M54B30 ULEV/TEST GROUP:</u></b><br><b><u>2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF</u></b><br><b><u>8)</u></b>                                                                                           |
| P0141 | 190 | O2 Sensor Heater Circuit<br>(Bank 1, Sensor 2)                  | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>M54B25 LEV, M54B30 LEV/TEST</u></b><br><b><u>GROUP: 2BMXV03.0LER &amp; ENGINE</u></b><br><b><u>TYPE: M54B30 ULEV/TEST GROUP:</u></b><br><b><u>2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF</u></b><br><b><u>8)</u></b> |
| P0151 | 151 | O2 Sensor Circuit Low<br>Voltage (Bank 2, Sensor<br>1)          | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>M54B25 LEV, M54B30 LEV/TEST</u></b><br><b><u>GROUP: 2BMXV03.0LER &amp; ENGINE</u></b><br><b><u>TYPE: M54B30 ULEV/TEST GROUP:</u></b><br><b><u>2BMXV03.0M5R, 2BMXT03.0E5R - 4 OF</u></b><br><b><u>8)</u></b> |
| P0152 | 151 | O2 Sensor Circuit High<br>Voltage (Bank 2, Sensor<br>1)         | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>M54B25 LEV, M54B30 LEV/TEST</u></b><br><b><u>GROUP: 2BMXV03.0LER &amp; ENGINE</u></b><br><b><u>TYPE: M54B30 ULEV/TEST GROUP:</u></b><br><b><u>2BMXV03.0M5R, 2BMXT03.0E5R - 4 OF</u></b><br><b><u>8)</u></b> |
| P0153 | 230 | O2 Sensor Circuit Slow<br>Response (Bank 2, Sensor<br>1)        | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>M54B25 LEV, M54B30 LEV/TEST</u></b><br><b><u>GROUP: 2BMXV03.0LER &amp; ENGINE</u></b><br><b><u>TYPE: M54B30 ULEV/TEST GROUP:</u></b><br><b><u>2BMXV03.0M5R, 2BMXT03.0E5R - 4 OF</u></b><br><b><u>8)</u></b> |
| P0154 | 151 | O2 Sensor Circuit No<br>Activity Detected (Bank<br>2, Sensor 1) | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>M54B25 LEV, M54B30 LEV/TEST</u></b><br><b><u>GROUP: 2BMXV03.0LER &amp; ENGINE</u></b><br><b><u>TYPE: M54B30 ULEV/TEST GROUP:</u></b><br><b><u>2BMXV03.0M5R, 2BMXT03.0E5R - 4 OF</u></b><br><b><u>8)</u></b> |
| P0155 | 189 | O2 Sensor Heater Circuit<br>(Bank 2, Sensor 1)                  | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>M54B25 LEV, M54B30 LEV/TEST</u></b><br><b><u>GROUP: 2BMXV03.0LER &amp; ENGINE</u></b><br><b><u>TYPE: M54B30 ULEV/TEST GROUP:</u></b><br><b><u>2BMXV03.0M5R, 2BMXT03.0E5R - 4 OF</u></b><br><b><u>8)</u></b> |
| P0157 | 153 | O2 Sensor Circuit Low<br>Voltage (Bank 2, Sensor<br>2)          | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>M54B25 LEV, M54B30 LEV/TEST</u></b><br><b><u>GROUP: 2BMXV03.0LER &amp; ENGINE</u></b><br><b><u>TYPE: M54B30 ULEV/TEST GROUP:</u></b><br><b><u>2BMXV03.0M5R, 2BMXT03.0E5R - 5 OF</u></b><br><b><u>8)</u></b> |
|       |     |                                                                 |                                                                                                                                                                                                                                                                |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     |                                                           |                                                                                                                                                                           |
|-------|-----|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P0158 | 153 | O2 Sensor Circuit High Voltage (Bank 2 Sensor 2)          | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 5 OF 8)</u></b> |
| P0160 | 153 | O2 Sensor Circuit No Activity Detected (Bank 2, Sensor 2) | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 5 OF 8)</u></b> |
| P0161 | 191 | O2 Sensor Heater Circuit (Bank 2, Sensor 2)               | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 5 OF 8)</u></b> |
| P0171 | 227 | System Too Lean (Bank 1)                                  | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 4 OF 8)</u></b> |
| P0172 | 227 | System Too Rich (Bank 1)                                  | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 4 OF 8)</u></b> |
| P0174 | 228 | System Too Lean (Bank 2)                                  | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 4 OF 8)</u></b> |
| P0175 | 228 | System Too Rich (Bank 2)                                  | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 4 OF 8)</u></b> |
| P0197 | 122 | Engine Oil Temperature, Sensor Low                        | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
|       |     |                                                           |                                                                                                                                                                           |

# 2002 BMW X5 30i

## 2002 DTC INDEX BMW

|       |     |                                                                     |                                                                                                                                                                    |
|-------|-----|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P0198 | 122 | Engine Oil Temperature, Sensor High                                 | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                       |
| P0201 | 6   | Injector Circuit/Open - Cylinder 1                                  | See <u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u> |
| P0202 | 5   | Injector Circuit/Open - Cylinder 2                                  | See <u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u> |
| P0203 | 22  | Injector Circuit/Open - Cylinder 3                                  | See <u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u> |
| P0204 | 24  | Injector Circuit/Open - Cylinder 4                                  | See <u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u> |
| P0205 | 33  | Injector Circuit/Open - Cylinder 5                                  | See <u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u> |
| P0206 | 23  | Injector Circuit/Open - Cylinder 6                                  | See <u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u> |
| P0221 | 119 | Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance | See <u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 5 OF 8)</u> |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     |                                                        |                                                                                                                                                                           |
|-------|-----|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P0222 | 113 | Throttle/Pedal Position Sensor/Switch "B" Circuit Low  | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 5 OF 8)</u></b> |
| P0223 | 113 | Throttle/Pedal Position Sensor/Switch "B" Circuit High | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 5 OF 8)</u></b> |
| P0261 | 6   | Cylinder 1 Injector Circuit Low                        | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u></b> |
| P0262 | 6   | Cylinder 1 Injector Circuit High                       | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u></b> |
| P0264 | 5   | Cylinder 2 Injector Circuit Low                        | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u></b> |
| P0265 | 5   | Cylinder 2 Injector Circuit High                       | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u></b> |
| P0267 | 22  | Cylinder 3 Injector Circuit Low                        | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u></b> |
| P0268 | 22  | Cylinder 3 Injector Circuit High                       | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP:</u></b>                                      |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       |                                  |                                                                                                                                                                           |
|-------|-------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |       |                                  | <b><u>2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u></b>                                                                                                                        |
| P0270 | 24    | Cylinder 4 Injector Circuit Low  | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u></b> |
| P0271 | 24    | Cylinder 4 Injector Circuit High | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u></b> |
| P0273 | 33    | Cylinder 5 Injector Circuit Low  | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u></b> |
| P0274 | 33    | Cylinder 5 Injector Circuit High | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u></b> |
| P0276 | 23    | Cylinder 6 Injector Circuit Low  | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u></b> |
| P0277 | 23    | Cylinder 6 Injector Circuit High | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u></b> |
| P0300 | ..... | Multiple Misfire                 | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 1 OF 8)</u></b> |
| P0301 | 238   | Cylinder 1 Misfire Detected      | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST</u></b>                                                                                                     |

# 2002 BMW X5 30i

## 2002 DTC INDEX BMW

|       |     |                                   |                                                                                                                                                                                               |
|-------|-----|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |     |                                   | <b><u>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 1 OF<br/>8)</u></b>                                                                 |
| P0302 | 239 | Cylinder 2 Misfire<br>Detected    | See <b><u>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 1 OF<br/>8)</u></b> |
| P0303 | 240 | Cylinder 3 Misfire<br>Detected    | See <b><u>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 1 OF<br/>8)</u></b> |
| P0304 | 241 | Cylinder 4 Misfire<br>Detected    | See <b><u>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 1 OF<br/>8)</u></b> |
| P0305 | 242 | Cylinder 5 Misfire<br>Detected    | See <b><u>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 1 OF<br/>8)</u></b> |
| P0306 | 243 | Cylinder 6 Misfire<br>Detected    | See <b><u>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 1 OF<br/>8)</u></b> |
| P0313 | 238 | Misfire Detected with<br>Low Fuel | Diagnostic information is not available. Use<br>BMW Diagnostic Information System Plus<br>(DISplus) or Group Tester One (GT-1) to<br>diagnose system.                                         |
| P0313 | 239 | Misfire Detected with<br>Low Fuel | Diagnostic information is not available. Use<br>BMW Diagnostic Information System Plus<br>(DISplus) or Group Tester One (GT-1) to<br>diagnose system.                                         |
| P0313 | 240 | Misfire Detected with<br>Low Fuel | Diagnostic information is not available. Use<br>BMW Diagnostic Information System Plus<br>(DISplus) or Group Tester One (GT-1) to<br>diagnose system.                                         |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     |                                                                             |                                                                                                                                                                           |
|-------|-----|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P0313 | 241 | Misfire Detected with Low Fuel                                              | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P0313 | 242 | Misfire Detected with Low Fuel                                              | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P0313 | 243 | Misfire Detected with Low Fuel                                              | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P0327 | 57  | Knock Sensor 1 Circuit Low (Bank 1 or Single Sensor)                        | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 8 OF 8)</u></b> |
| P0332 | 59  | Knock Sensor 2 Circuit Low (Bank 2)                                         | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 8 OF 8)</u></b> |
| P0335 | 83  | Crankshaft Position Sensor "A" Circuit                                      | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 6 OF 8)</u></b> |
| P0339 | 83  | Crankshaft Position Sensor "A" Circuit Intermittent                         | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 6 OF 8)</u></b> |
| P0340 | 65  | Camshaft Position Sensor "A" Circuit (Bank 1 or Single Sensor)              | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u></b> |
| P0344 | 65  | Camshaft Position Sensor "A" Circuit Intermittent (Bank 1 or Single Sensor) | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u></b> |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     |                                                                    |                                                                                                                                                                           |
|-------|-----|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |     |                                                                    | <b><u>2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u></b>                                                                                                                        |
| P0365 | 18  | Camshaft Position Sensor "B" Circuit (Bank 1)                      | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u></b> |
| P0369 | 18  | Camshaft Position Sensor "B" Circuit Intermittent (Bank 1)         | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u></b> |
| P0413 | 62  | Secondary Air Injection System Switching Valve "A" Circuit Open    | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 3 OF 8)</u></b> |
| P0414 | 62  | Secondary Air Injection System Switching Valve "A" Circuit Shorted | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 3 OF 8)</u></b> |
| P0420 | 233 | Catalyst System Efficiency Below Threshold (Bank 1)                | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 1 OF 8)</u></b> |
| P0430 | 234 | Catalyst System Efficiency Below Threshold (Bank 2)                | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 1 OF 8)</u></b> |
| P0441 | 250 | Evaporative Emission System Incorrect Purge Flow                   | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 1 OF 8)</u></b> |
| P0443 | 68  | Evaporative Emission System Purge Control                          | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST</u></b>                                                                                                     |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     | Valve Circuit                                                          | <b><u>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 3 OF<br/>8)</u></b>                                                                 |
|-------|-----|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P0444 | 68  | Evaporative Emission<br>System Purge Control<br>Valve, Circuit Open    | See <b><u>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 3 OF<br/>8)</u></b> |
| P0445 | 68  | Evaporative Emission<br>System Purge Control<br>Valve, Circuit Shorted | See <b><u>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 3 OF<br/>8)</u></b> |
| P0455 | 143 | Evaporative Emission<br>System Leak Detected<br>(Large Leak)           | Diagnostic information is not available. Use<br>BMW Diagnostic Information System Plus<br>(DISplus) or Group Tester One (GT-1) to<br>diagnose system.                                         |
| P0456 | 143 | Evaporative Emission<br>System Leak Detected<br>(Very Small Leak)      | See <b><u>DTC CHART ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 2 OF<br/>8)</u></b>  |
| P0491 | 245 | Secondary Air Injection<br>System Insufficient Flow<br>(Bank 1)        | See <b><u>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 3 OF<br/>8)</u></b> |
| P0492 | 246 | Secondary Air Injection<br>System Insufficient Flow<br>(Bank 2)        | See <b><u>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 3 OF<br/>8)</u></b> |
| P0500 | 214 | Vehicle Speed Sensor<br>"A"                                            | See <b><u>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 6 OF<br/>8)</u></b> |
| P0505 | 204 | Idle Air Control System                                                | See <b><u>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST</u></b>                                                                                                                     |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       |                                                                |                                                                                                                                                                                               |
|-------|-------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |       |                                                                | <b><u>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF<br/>8)</u></b>                                                                 |
| P0600 | 217   | Serial Communication<br>Link                                   | See <b><u>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF<br/>8)</u></b> |
| P0604 | 100   | Internal Control Module<br>Random Access Memory<br>(RAM) Error | See <b><u>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF<br/>8)</u></b> |
| P07XX | ..... | .....                                                          | These codes apply to electronically controlled<br>transmissions.                                                                                                                              |
| P09XX | ..... | .....                                                          | These codes apply to electronically controlled<br>transmissions.                                                                                                                              |
| P1083 | 202   | Fuel Control Limit<br>Mixture Too Lean (Bank<br>1, Sensor 1)   | See <b><u>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 4 OF<br/>8)</u></b> |
| P1084 | 202   | Fuel Control Limit<br>Mixture Too Rich (Bank<br>1, Sensor 1)   | See <b><u>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 4 OF<br/>8)</u></b> |
| P1085 | 203   | Fuel Control Limit<br>Mixture Too Lean (Bank<br>2, Sensor 1)   | See <b><u>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 4 OF<br/>8)</u></b> |
| P1086 | 203   | Fuel Control Limit<br>Mixture Too Rich (Bank<br>2, Sensor 1)   | See <b><u>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 4 OF<br/>8)</u></b> |
| P1087 | 229   | O2 Sensor Circuit Slow<br>Response in Lean Control             | Diagnostic information is not available. Use<br>BMW Diagnostic Information System Plus                                                                                                        |

# 2002 BMW X5 30i

## 2002 DTC INDEX BMW

|       |     | Range (Bank 1, Sensor 1)                                                 | (DISplus) or Group Tester One (GT-1) to diagnose system.                                                                                                                  |
|-------|-----|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P1088 | 229 | O2 Sensor Circuit Slow Response in Rich Control Range (Bank 1, Sensor 1) | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1089 | 230 | O2 Sensor Circuit Slow Response in Lean Control Range (Bank 1, Sensor 2) | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1090 | 235 | Pre Catalyst Fuel Trim System, Too Lean (Bank 1)                         | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1091 | 236 | Pre Catalyst Fuel Trim System, Too Lean (Bank 2)                         | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1092 | 235 | Pre Catalyst Fuel Trim System, Too Rich (Bank 1)                         | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 4 OF 8)</u></b> |
| P1093 | 236 | Pre Catalyst Fuel Trim System, Too Rich (Bank 2)                         | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 4 OF 8)</u></b> |
| P1094 | 230 | O2 Sensor Circuit Slow Response in Rich Control Range (Bank 2, Sensor 1) |                                                                                                                                                                           |
| P1111 | 11  | Engine Coolant Temperature Sensor Radiator Outlet, Low Input             | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 5 OF 8)</u></b> |
| P1112 | 11  | Engine Coolant Temperature Sensor Radiator Outlet, High Input            | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 5 OF 8)</u></b> |
| P1120 | 114 | Pedal Position Sensor                                                    | See <b><u>DTC CHART (ENGINE TYPE:</u></b>                                                                                                                                 |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     | Circuit                                                           | <u><b>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 5 OF<br/>8)</b></u>                                 |
|-------|-----|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P1121 | 117 | Pedal Position Sensor 1,<br>Range/Performance<br>Problem          | See <u><b>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 5 OF<br/>8)</b></u> |
| P1122 | 110 | Pedal Position Sensor 1,<br>Low Input                             | See <u><b>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 5 OF<br/>8)</b></u> |
| P1123 | 110 | Pedal Position Sensor 1,<br>High Input                            | See <u><b>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 5 OF<br/>8)</b></u> |
| P1143 | 215 | O2 Sensor Activity<br>Check Signal Too High<br>(Bank 1, Sensor 2) | See <u><b>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 5 OF<br/>8)</b></u> |
| P1144 | 215 | O2 Sensor Activity<br>Check Signal Too Low<br>(Bank 1, Sensor 2)  | See <u><b>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 5 OF<br/>8)</b></u> |
| P1149 | 216 | O2 Sensor Activity<br>Check Signal Too High<br>(Bank 2, Sensor 2) | See <u><b>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 5 OF<br/>8)</b></u> |
| P1150 | 216 | O2 Sensor Activity<br>Check Signal Too Low<br>(Bank 2, Sensor 2)  | See <u><b>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 5 OF<br/>8)</b></u> |

## 2002 BMW X5 30i

### 2002 DTC INDEX BMW

|       |       |                                                                              | <b>8)</b>                                                                                                                                                                 |
|-------|-------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P1171 | 196   | Ambient Pressure Sensor Variant Recognition Value in Boot Range Implausible  | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1172 | 196   | Ambient Pressure Sensor Variant Recognition Error Value Stored in Boot Range | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1173 | 196   | Ambient Pressure Sensor Variant Recognition Learning Failed                  | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1222 | 111   | Pedal Position Sensor 2, Low Input                                           | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1223 | 111   | Pedal Position Sensor 2, High Input                                          | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1314 | 202   | Fuel Mixture Deviation Detected With Low Fuel                                | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1314 | 203   | Fuel Mixture Deviation Detected With Low Fuel                                | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1314 | 227   | Fuel Mixture Deviation Detected With Low Fuel                                | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1314 | 228   | Fuel Mixture Deviation Detected With Low Fuel                                | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1340 | ..... | Multiple Misfire                                                             | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 1 OF 8)</u></b> |
| P1341 | ..... | Multiple Misfire                                                             | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE</u></b>                                                                    |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     |                                      |                                                                                                                                                                                                                                                                |
|-------|-----|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |     |                                      | <b><u>TYPE: M54B30 ULEV/TEST GROUP:</u></b><br><b><u>2BMXV03.0M5R, 2BMXT03.0E5R - 1 OF</u></b><br><b><u>8)</u></b>                                                                                                                                             |
| P1342 | 238 | Misfire During Start ,Cylinder 1     | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>M54B25 LEV, M54B30 LEV/TEST</u></b><br><b><u>GROUP: 2BMXV03.0LER &amp; ENGINE</u></b><br><b><u>TYPE: M54B30 ULEV/TEST GROUP:</u></b><br><b><u>2BMXV03.0M5R, 2BMXT03.0E5R - 1 OF</u></b><br><b><u>8)</u></b> |
| P1343 | 238 | Misfire Cylinder 1 With Fuel Cut-Off | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>M54B25 LEV, M54B30 LEV/TEST</u></b><br><b><u>GROUP: 2BMXV03.0LER &amp; ENGINE</u></b><br><b><u>TYPE: M54B30 ULEV/TEST GROUP:</u></b><br><b><u>2BMXV03.0M5R, 2BMXT03.0E5R - 1 OF</u></b><br><b><u>8)</u></b> |
| P1344 | 239 | Misfire During Start, Cylinder 2     | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>M54B25 LEV, M54B30 LEV/TEST</u></b><br><b><u>GROUP: 2BMXV03.0LER &amp; ENGINE</u></b><br><b><u>TYPE: M54B30 ULEV/TEST GROUP:</u></b><br><b><u>2BMXV03.0M5R, 2BMXT03.0E5R - 1 OF</u></b><br><b><u>8)</u></b> |
| P1345 | 239 | Misfire Cylinder 2 With Fuel Cut-Off | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>M54B25 LEV, M54B30 LEV/TEST</u></b><br><b><u>GROUP: 2BMXV03.0LER &amp; ENGINE</u></b><br><b><u>TYPE: M54B30 ULEV/TEST GROUP:</u></b><br><b><u>2BMXV03.0M5R, 2BMXT03.0E5R - 1 OF</u></b><br><b><u>8)</u></b> |
| P1346 | 240 | Misfire During Start, Cylinder 3     | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>M54B25 LEV, M54B30 LEV/TEST</u></b><br><b><u>GROUP: 2BMXV03.0LER &amp; ENGINE</u></b><br><b><u>TYPE: M54B30 ULEV/TEST GROUP:</u></b><br><b><u>2BMXV03.0M5R, 2BMXT03.0E5R - 1 OF</u></b><br><b><u>8)</u></b> |
| P1347 | 240 | Misfire Cylinder 3 With Fuel Cut-Off | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>M54B25 LEV, M54B30 LEV/TEST</u></b><br><b><u>GROUP: 2BMXV03.0LER &amp; ENGINE</u></b><br><b><u>TYPE: M54B30 ULEV/TEST GROUP:</u></b><br><b><u>2BMXV03.0M5R, 2BMXT03.0E5R - 1 OF</u></b><br><b><u>8)</u></b> |
| P1348 | 241 | Misfire During Start, Cylinder 4     | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>M54B25 LEV, M54B30 LEV/TEST</u></b><br><b><u>GROUP: 2BMXV03.0LER &amp; ENGINE</u></b><br><b><u>TYPE: M54B30 ULEV/TEST GROUP:</u></b><br><b><u>2BMXV03.0M5R, 2BMXT03.0E5R - 1 OF</u></b><br><b><u>8)</u></b> |
| P1349 | 241 | Misfire Cylinder 4 With              | See <b><u>DTC CHART (ENGINE TYPE:</u></b>                                                                                                                                                                                                                      |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       | Fuel Cut-Off                                                    | <u>M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 1 OF 8)</u>                             |
|-------|-------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P1350 | 242   | Misfire during Start, Cylinder 5                                | See <u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 1 OF 8)</u> |
| P1351 | 242   | Misfire Cylinder 5 With Fuel Cut-Off                            | See <u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 1 OF 8)</u> |
| P1352 | 243   | Misfire during Start ,Cylinder 6                                | See <u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 1 OF 8)</u> |
| P1353 | 243   | Misfire Cylinder 6 With Fuel Cut-Off                            | See <u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 1 OF 8)</u> |
| P1413 | 35    | Secondary Air Injection Pump Relay Control Circuit, Signal Low  | See <u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 3 OF 8)</u> |
| P1414 | 35    | Secondary Air Injection Pump Relay Control Circuit, Signal High | See <u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 3 OF 8)</u> |
| P1434 | ..... | EVAP Signal/Heater Element                                      | See <u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 3 OF 8)</u> |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       |                                                                                                       |                                                                                                                                                                                                                                                                |
|-------|-------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |       |                                                                                                       | <b>8)</b>                                                                                                                                                                                                                                                      |
| P1444 | ..... | EVAP Circuit Continuity<br>Open                                                                       | See <b><u>DTC CHART ENGINE TYPE:</u></b><br><b><u>M54B25 LEV, M54B30 LEV/TEST</u></b><br><b><u>GROUP: 2BMXV03.0LER &amp; ENGINE</u></b><br><b><u>TYPE: M54B30 ULEV/TEST GROUP:</u></b><br><b><u>2BMXV03.0M5R, 2BMXT03.0E5R - 2 OF</u></b><br><b><u>8)</u></b>  |
| P1445 | 140   | Diagnostic Module Tank<br>Leakage (DM-TL) Pump,<br>Control Circuit Signal<br>Low                      | See <b><u>DTC CHART ENGINE TYPE:</u></b><br><b><u>M54B25 LEV, M54B30 LEV/TEST</u></b><br><b><u>GROUP: 2BMXV03.0LER &amp; ENGINE</u></b><br><b><u>TYPE: M54B30 ULEV/TEST GROUP:</u></b><br><b><u>2BMXV03.0M5R, 2BMXT03.0E5R - 2 OF</u></b><br><b><u>8)</u></b>  |
| P1446 | 140   | Diagnostic Module Tank<br>Leakage (DM-TL) Pump,<br>Control Circuit Signal<br>High                     | See <b><u>DTC CHART ENGINE TYPE:</u></b><br><b><u>M54B25 LEV, M54B30 LEV/TEST</u></b><br><b><u>GROUP: 2BMXV03.0LER &amp; ENGINE</u></b><br><b><u>TYPE: M54B30 ULEV/TEST GROUP:</u></b><br><b><u>2BMXV03.0M5R, 2BMXT03.0E5R - 2 OF</u></b><br><b><u>8)</u></b>  |
| P1447 | 142   | Diagnostic Module Tank<br>Leakage (DM-TL) Pump,<br>Current Too High during<br>Switching Solenoid Test | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>M54B25 LEV, M54B30 LEV/TEST</u></b><br><b><u>GROUP: 2BMXV03.0LER &amp; ENGINE</u></b><br><b><u>TYPE: M54B30 ULEV/TEST GROUP:</u></b><br><b><u>2BMXV03.0M5R, 2BMXT03.0E5R - 3 OF</u></b><br><b><u>8)</u></b> |
| P1448 | 142   | Diagnostic Module Tank<br>Leakage (DM-TL) Pump,<br>Current Too Low                                    | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>M54B25 LEV, M54B30 LEV/TEST</u></b><br><b><u>GROUP: 2BMXV03.0LER &amp; ENGINE</u></b><br><b><u>TYPE: M54B30 ULEV/TEST GROUP:</u></b><br><b><u>2BMXV03.0M5R, 2BMXT03.0E5R - 3 OF</u></b><br><b><u>8)</u></b> |
| P1449 | 142   | Diagnostic Module Tank<br>Leakage (DM-TL) Pump,<br>Current Too High                                   | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>M54B25 LEV, M54B30 LEV/TEST</u></b><br><b><u>GROUP: 2BMXV03.0LER &amp; ENGINE</u></b><br><b><u>TYPE: M54B30 ULEV/TEST GROUP:</u></b><br><b><u>2BMXV03.0M5R, 2BMXT03.0E5R - 3 OF</u></b><br><b><u>8)</u></b> |
| P1450 | ..... | EVAP Circuit Continuity<br>Open                                                                       | See <b><u>DTC CHART ENGINE TYPE:</u></b><br><b><u>M54B25 LEV, M54B30 LEV/TEST</u></b><br><b><u>GROUP: 2BMXV03.0LER &amp; ENGINE</u></b><br><b><u>TYPE: M54B30 ULEV/TEST GROUP:</u></b><br><b><u>2BMXV03.0M5R, 2BMXT03.0E5R - 2 OF</u></b><br><b><u>8)</u></b>  |
| P1451 | 126   | Diagnostic Module Tank<br>Leakage (DM-TL)<br>Switching Solenoid                                       | See <b><u>DTC CHART ENGINE TYPE:</u></b><br><b><u>M54B25 LEV, M54B30 LEV/TEST</u></b><br><b><u>GROUP: 2BMXV03.0LER &amp; ENGINE</u></b>                                                                                                                        |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     |                                                                                        |                                                                                                                                                                           |
|-------|-----|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |     | Control Circuit, Signal Low                                                            | <b><u>TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 2 OF 8)</u></b>                                                                                          |
| P1452 | 126 | Diagnostic Module Tank Leakage (DM-TL) Switching Solenoid Control Circuit, Signal High | See <b><u>DTC CHART ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 2 OF 8)</u></b>  |
| P1500 | 211 | Idle-Speed Control Valve, Stuck Open                                                   | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u></b> |
| P1501 | 211 | Idle-Speed Control Valve, Stuck Closed                                                 | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u></b> |
| P1502 | 27  | Idle-Speed Control Valve Closing Solenoid Control Circuit, Signal High                 | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u></b> |
| P1503 | 27  | Idle-Speed Control Valve Closing Solenoid Control Circuit, Signal Low                  | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u></b> |
| P1504 | 27  | Idle-Speed Control Valve Closing Solenoid Control, Open Circuit                        | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u></b> |
| P1506 | 53  | Idle-Speed Control Valve Opening Solenoid Control Circuit, Signal High                 | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u></b> |
| P1507 | 53  | Idle-Speed Control Valve                                                               | See <b><u>DTC CHART (ENGINE TYPE:</u></b>                                                                                                                                 |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     |                                                                                                                         |                                                                                                                                                                                               |
|-------|-----|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |     | Opening Solenoid<br>Control Circuit, Signal<br>Low                                                                      | <b><u>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF<br/>8)</u></b>                                 |
| P1508 | 53  | Idle-Speed Control Valve<br>Opening Solenoid<br>Control, Open Circuit                                                   | See <b><u>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF<br/>8)</u></b> |
| P1512 | 124 | DISA (Differentiated<br>Intake Manifold) Control<br>Circuit, Signal Low                                                 | Diagnostic information is not available. Use<br>BMW Diagnostic Information System Plus<br>(DISplus) or Group Tester One (GT-1) to<br>diagnose system.                                         |
| P1513 | 124 | DISA (Differentiated<br>Intake Manifold) Control<br>Circuit ,Signal High                                                | Diagnostic information is not available. Use<br>BMW Diagnostic Information System Plus<br>(DISplus) or Group Tester One (GT-1) to<br>diagnose system.                                         |
| P1523 | 21  | "A" Camshaft Position<br>Actuator Signal Low<br>(Bank 1) (M52: "B"<br>Camshaft Position<br>Actuator Tight or<br>Jammed) | See <b><u>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF<br/>8)</u></b> |
| P1524 | 21  | "A" Camshaft Position<br>Actuator Control Circuit<br>Signal High (Bank 1)                                               | See <b><u>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF<br/>8)</u></b> |
| P1525 | 21  | "A" Camshaft Position<br>Actuator Control Open<br>Circuit (Bank 1)                                                      | See <b><u>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF<br/>8)</u></b> |
| P1529 | 19  | "B" Camshaft Position<br>Actuator Control Circuit<br>Signal Low (Bank 1)                                                | See <b><u>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE<br/>TYPE: M54B30 ULEV/TEST GROUP:<br/>2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF<br/>8)</u></b> |
| P1530 | 19  | "B" Camshaft Position<br>Actuator Control Circuit<br>Signal High (Bank 1)                                               | See <b><u>DTC CHART (ENGINE TYPE:<br/>M54B25 LEV, M54B30 LEV/TEST<br/>GROUP: 2BMXV03.0LER &amp; ENGINE</u></b>                                                                                |

# 2002 BMW X5 30i

## 2002 DTC INDEX BMW

|       |    |                                                                    |                                                                                                                                                                           |
|-------|----|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |    | (S54 to 09/00: Throttle Valve Position Control, Control Deviation) | <b><u>TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u></b>                                                                                          |
| P1531 | 19 | "B" Camshaft Position Actuator Control Open Circuit (Bank 1)       | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 7 OF 8)</u></b> |
| P1602 | 48 | Control Module Self-Test, Control Module Defective                 | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1602 | 58 | Control Module Self-Test, Control Module Defective                 | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1602 | 63 | Control Module Self-Test, Control Module Defective                 | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1602 | 66 | Control Module Self-Test, Control Module Defective                 | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1602 | 67 | Control Module Self-Test, Control Module Defective                 | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1602 | 70 | Control Module Self-Test, Control Module Defective                 | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1602 | 71 | Control Module Self-Test, Control Module Defective                 | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1602 | 72 | Control Module Self-Test, Control Module Defective                 | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1603 | 49 | Control Module Self-Test, Torque Monitoring                        | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1604 | 50 | Control Module Self-                                               | Diagnostic information is not available. Use                                                                                                                              |

## 2002 BMW X5 30i

### 2002 DTC INDEX BMW

|       |     |                                                                                                                                                         |                                                                                                                                                                           |
|-------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |     | Test, Speed Monitoring                                                                                                                                  | BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                                                                           |
| P1619 | 123 | Map Cooling Thermostat Control Circuit, Signal Low                                                                                                      | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1620 | 123 | Map Cooling Thermostat Control Circuit, Signal High                                                                                                     | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1624 | 146 | Pedal Position Sensor Potentiometer Supply Channel 1 Electrical (M52: Coolant Thermostat (Coolant Temperature Below Thermostat Regulating Temperature)) | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1625 | 147 | Pedal Position Sensor Potentiometer Supply Channel 2 Electrical                                                                                         | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1632 | 115 | Throttle Valve Adaptation Conditions Not Met                                                                                                            | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1633 | 115 | Throttle Valve Adaptation Limp-Home Position Unknown                                                                                                    | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1634 | 115 | Throttle Valve Adaptation Spring Test Failed                                                                                                            | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1635 | 115 | Throttle Valve Adaptation Lower Mechanical Stop not Adapted                                                                                             | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1636 | 109 | Throttle Valve Control Circuit                                                                                                                          | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 5 OF 8)</u></b> |
| P1637 | 162 | Throttle Valve Position                                                                                                                                 | Diagnostic information is not available. Use                                                                                                                              |

## 2002 BMW X5 30i

### 2002 DTC INDEX BMW

|       |       | Control, Control Deviation                                                 | BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                                                                           |
|-------|-------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P1638 | 160   | Throttle Valve Position Control, Throttle Stuck Temporarily                | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1639 | 161   | Throttle Valve Position Control, Throttle Stuck Permanently                | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1675 | 135   | Throttle Valve Actuator Start Test, Re-Adaptation Required                 | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P1694 | 136   | Throttle Valve Actuator Start Test Spring Test & Limp-Home Position Failed | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                              |
| P2096 | 225   | Post Catalyst Fuel Trim System Too Lean (Bank 1)                           | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 4 OF 8)</u></b> |
| P2098 | 226   | Post Catalyst Fuel Trim System Too Lean (Bank 2)                           | See <b><u>DTC CHART (ENGINE TYPE: M54B25 LEV, M54B30 LEV/TEST GROUP: 2BMXV03.0LER &amp; ENGINE TYPE: M54B30 ULEV/TEST GROUP: 2BMXV03.0M5R, 2BMXT03.0E5R - 4 OF 8)</u></b> |
| P17XX | ..... | .....                                                                      | These codes apply to electronically controlled transmissions.                                                                                                             |
| P18XX | ..... | .....                                                                      | These codes apply to electronically controlled transmissions.                                                                                                             |

### SELF-DIAGNOSTICS DIAGNOSTIC TROUBLE CODES (DTC) LIST - ECU: ME7.2, ENGINE: M62 E53, FROM 10-1-01 To 9-30-02

| PCode | BMW-FC | PCode Text                                      | Diagnosis                                                                                                                                                                                         |
|-------|--------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P0010 | 33     | "A" Camshaft Position Actuator Circuit (Bank 1) | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 10 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 10 OF 11)</u></b> (4.6L) |
| P0011 | 33     | "A" Camshaft Position                           | See <b><u>DTC CHART (ENGINE TYPE: M62B44</u></b>                                                                                                                                                  |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |    |                                                                                    |                                                                                                                                                                                                                                       |
|-------|----|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |    | Timing Over-Advanced<br>Or System Performance<br>(Bank 1)                          | <b><u>LEV/TEST GROUP: 2BMXT04.4E53 - 10 OF 11</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 10 OF 11)</u></b> (4.6L)                                                                         |
| P0012 | 33 | "A" Camshaft Position<br>Timing Over-Retarded<br>(Bank 1)                          | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 10 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 10 OF 11)</u></b> (4.6L)                                     |
| P0020 | 34 | "A" Camshaft Position<br>Actuator Circuit (Bank 2)                                 | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 10 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 10 OF 11)</u></b> (4.6L)                                     |
| P0021 | 34 | "A" Camshaft Position<br>Timing Over-Advanced<br>Or System Performance<br>(Bank 2) | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 10 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 10 OF 11)</u></b> (4.6L)                                     |
| P0022 | 34 | "A" Camshaft Position<br>Timing Over-Retarded<br>(Bank 2)                          | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 10 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 10 OF 11)</u></b> (4.6L)                                     |
| P0030 | 13 | HO2S Heater Control<br>Circuit (Bank 1, Sensor 1)                                  | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 7 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 7 OF 11)</u></b> (4.6L)                                       |
| P0031 | 13 | HO2S Heater Control<br>Circuit Low (Bank 1,<br>Sensor 1)                           | For 4.4L, See Diagnosis, For DTC P0030. See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 7 OF 11)</u></b> . For 4.6L, See <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 7 OF 11)</u></b> |
| P0032 | 13 | HO2S Heater Control<br>Circuit High (Bank 1,<br>Sensor 1)                          | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 7 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 7 OF 11)</u></b> (4.6L)                                       |
| P0036 | 14 | HO2S Heater Control<br>Circuit (Bank 1, Sensor 2)                                  | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 8 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 8 OF 11)</u></b> (4.6L)                                       |
| P0037 | 14 | HO2S Heater Control                                                                | See <b><u>DTC CHART (ENGINE TYPE: M62B44</u></b>                                                                                                                                                                                      |

# 2002 BMW X5 30i

## 2002 DTC INDEX BMW

|       |     |                                                     |                                                                                                                                                                                                 |
|-------|-----|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |     | Circuit Low (Bank 1, Sensor 2)                      | <b><u>LEV/TEST GROUP: 2BMXT04.4E53 - 8 OF 11</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 8 OF 11)</u></b> (4.6L)                                     |
| P0038 | 14  | HO2S Heater Control Circuit High (Bank 1, Sensor 2) | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 8 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 8 OF 11)</u></b> (4.6L) |
| P0050 | 5   | HO2S Heater Control Circuit (Bank 2, Sensor 1)      | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 7 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 7 OF 11)</u></b> (4.6L) |
| P0051 | 5   | HO2S Heater Control Circuit Low (Bank 2, Sensor 1)  | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 7 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 7 OF 11)</u></b> (4.6L) |
| P0052 | 5   | HO2S Heater Control Circuit High (Bank 2, Sensor 1) | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 7 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 7 OF 11)</u></b> (4.6L) |
| P0056 | 4   | HO2S Heater Control Circuit (Bank 2, Sensor 2)      | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 8 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 8 OF 11)</u></b> (4.6L) |
| P0057 | 4   | HO2S Heater Control Circuit Low (Bank 2, Sensor 2)  | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 8 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 8 OF 11)</u></b> (4.6L) |
| P0058 | 4   | HO2S Heater Control Circuit High (Bank 2, Sensor 2) | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 8 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 8 OF 11)</u></b> (4.6L) |
| P0102 | 115 | Mass or Volume Air Flow Circuit, Low Input          | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 9 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 9 OF 11)</u></b> (4.6L) |
| P0103 | 115 | Mass or Volume Air Flow Circuit, High Input         | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 9 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 9 OF 11)</u></b> (4.6L) |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     |                                                                     |                                                                                                                                                                                                                                   |
|-------|-----|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |     |                                                                     | <b><u>11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 9 OF 11)</u></b> (4.6L)                                                                                                          |
| P0112 | 124 | Intake Air Temperature Sensor 1, Circuit Low                        | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 10 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 10 OF 11)</u></b> (4.6L)                                 |
| P0113 | 124 | Intake Air Temperature Sensor 1, Circuit High                       | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 10 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 10 OF 11)</u></b> (4.6L)                                 |
| P0116 | 123 | Engine Coolant Temperature Circuit Range/Performance                | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 9 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 9 OF 11)</u></b> (4.6)                                    |
| P0117 | 123 | Engine Coolant Temperature, Circuit Low                             | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 9 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 9 OF 11)</u></b> (4.6L)                                   |
| P0118 | 123 | Engine Coolant Temperature, Circuit High                            | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 9 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 9 OF 11)</u></b> (4.6L)                                   |
| P0119 | 123 | Engine Coolant Temperature, Circuit Intermittent                    | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 9 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 9 OF 11)</u></b> (4.6L)                                   |
| P0120 | 117 | Throttle/Pedal Position Sensor/Switch "A" Circuit                   | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                                                                                      |
| P0121 | 118 | Throttle/Pedal Position Sensor/Switch "A" Circuit Range/Performance | See Diagnosis, For DTC P0122. See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 9 OF 11)</u></b> (4.4L). For 4.6L, See <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 9 OF 11)</u></b> |
| P0122 | 118 | Throttle/Pedal Position Sensor/Switch "A" Circuit Low               | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 9 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE</u></b>                                                                                               |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     |                                                                 | <b><u>TYPE: M62B46 LEV/TEST GROUP:<br/>2BMXTO4.6XHP - 9 OF 11) (4.6L)</u></b>                                                                                                                                          |
|-------|-----|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P0123 | 118 | Throttle/Pedal Position<br>Sensor/Switch "A"<br>Circuit High    | See <b><u>DTC CHART (ENGINE TYPE: M62B44<br/>LEV/TEST GROUP: 2BMXT04.4E53 - 9 OF<br/>11) (4.4L), or DTC CHART (ENGINE<br/>TYPE: M62B46 LEV/TEST GROUP:<br/>2BMXTO4.6XHP - 9 OF 11) (4.6L)</u></b>                      |
| P0130 | 10  | O2 Sensor Circuit (Bank<br>1, Sensor 1)                         | For Diagnostics, See <b><u>DTC CHART (ENGINE<br/>TYPE: M62B44 LEV/TEST GROUP:<br/>2BMXT04.4E53 - 7 OF 11) (4.4L), or DTC<br/>CHART (ENGINE TYPE: M62B46<br/>LEV/TEST GROUP: 2BMXTO4.6XHP - 7<br/>OF 11) (4.6L)</u></b> |
| P0131 | 10  | O2 Sensor Circuit Low<br>Voltage (Bank 1, Sensor<br>1)          | See <b><u>DTC CHART (ENGINE TYPE: M62B44<br/>LEV/TEST GROUP: 2BMXT04.4E53 - 7 OF<br/>11) (4.4L), or DTC CHART (ENGINE<br/>TYPE: M62B46 LEV/TEST GROUP:<br/>2BMXTO4.6XHP - 7 OF 11) (4.6L)</u></b>                      |
| P0132 | 10  | O2 Sensor Circuit High<br>Voltage (Bank 1, Sensor<br>1)         | See <b><u>DTC CHART (ENGINE TYPE: M62B44<br/>LEV/TEST GROUP: 2BMXT04.4E53 - 7 OF<br/>11) (4.4L), or DTC CHART (ENGINE<br/>TYPE: M62B46 LEV/TEST GROUP:<br/>2BMXTO4.6XHP - 7 OF 11) (4.6L)</u></b>                      |
| P0133 | 15  | O2 Sensor Circuit Slow<br>Response (Bank 1,<br>Sensor 1)        | See <b><u>DTC CHART (ENGINE TYPE: M62B44<br/>LEV/TEST GROUP: 2BMXT04.4E53 - 7 OF<br/>11) (4.4L), or DTC CHART (ENGINE<br/>TYPE: M62B46 LEV/TEST GROUP:<br/>2BMXTO4.6XHP - 7 OF 11) (4.6L)</u></b>                      |
| P0134 | 10  | O2 Sensor Circuit No<br>Activity Detected (Bank<br>1, Sensor 1) | See <b><u>DTC CHART (ENGINE TYPE: M62B44<br/>LEV/TEST GROUP: 2BMXT04.4E53 - 7 OF<br/>11) (4.4L), or DTC CHART (ENGINE<br/>TYPE: M62B46 LEV/TEST GROUP:<br/>2BMXTO4.6XHP - 7 OF 11) (4.6L)</u></b>                      |
| P0135 | 13  | O2 Sensor Heater<br>Circuit (Bank 1, Sensor<br>1)               | See <b><u>DTC CHART (ENGINE TYPE: M62B44<br/>LEV/TEST GROUP: 2BMXT04.4E53 - 7 OF<br/>11) (4.4L), or DTC CHART (ENGINE<br/>TYPE: M62B46 LEV/TEST GROUP:<br/>2BMXTO4.6XHP - 7 OF 11) (4.6L)</u></b>                      |
| P0136 | 12  | O2 Sensor Circuit (Bank<br>1, Sensor 2)                         | See <b><u>DTC CHART (ENGINE TYPE: M62B44<br/>LEV/TEST GROUP: 2BMXT04.4E53 - 8 OF<br/>11) (4.4L), or DTC CHART (ENGINE<br/>TYPE: M62B46 LEV/TEST GROUP:<br/>2BMXTO4.6XHP - 8 OF 11) (4.6L)</u></b>                      |
| P0137 | 12  | O2 Sensor Circuit Low<br>Voltage (Bank 1, Sensor<br>2)          | See <b><u>DTC CHART (ENGINE TYPE: M62B44<br/>LEV/TEST GROUP: 2BMXT04.4E53 - 8 OF<br/>11) (4.4L), or DTC CHART (ENGINE</u></b>                                                                                          |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |    |                                                           | <b><u>TYPE: M62B46 LEV/TEST GROUP:<br/>2BMXTO4.6XHP - 8 OF 11) (4.6L)</u></b>                                                                                                                                  |
|-------|----|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P0138 | 12 | O2 Sensor Circuit High Voltage (Bank 1, Sensor 2)         | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 8 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 8 OF 11) (4.6L)</u></b>                              |
| P0139 | 17 | O2 Sensor Circuit Slow Response (Bank 1, Sensor 2)        | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 8 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 8 OF 11) (4.6L)</u></b>                              |
| P0140 | 12 | O2 Sensor Circuit No Activity Detected (Bank 1, Sensor 2) | See Diagnosis For DTC P0136. See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 8 OF 11) (4.4L) or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 8 OF 11) (4.6L)</u></b>  |
| P0141 | 14 | O2 Sensor Heater Circuit (Bank 1, Sensor 2)               | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 8 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 8 OF 11) (4.6L)</u></b>                              |
| P0150 | 18 | O2 Sensor Circuit (Bank 2, Sensor 1)                      | See Diagnosis For DTC P0152. See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 7 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 7 OF 11) (4.6L)</u></b> |
| P0151 | 18 | O2 Sensor Circuit Low Voltage (Bank 2, Sensor 1)          | See Diagnosis For DTC P0152. See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 7 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 7 OF 11) (4.6L)</u></b> |
| P0152 | 18 | O2 Sensor Circuit High Voltage (Bank 2, Sensor 1)         | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 7 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 7 OF 11) (4.6L)</u></b>                              |
| P0153 | 21 | O2 Sensor Circuit Slow Response (Bank 2, Sensor 1)        | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 7 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 7 OF 11) (4.6L)</u></b>                              |
| P0154 | 18 | O2 Sensor Circuit No Activity Detected (Bank 2, Sensor 1) | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 7 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 7 OF 11) (4.6L)</u></b>                              |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |    |                                                           |                                                                                                                                                                                                                         |
|-------|----|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P0155 | 5  | O2 Sensor Heater Circuit (Bank 2, Sensor 1)               | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 7 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 7 OF 11)</u></b> (4.6L)                         |
| P0156 | 20 | O2 Sensor Circuit (Bank 2, Sensor 2)                      | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 8 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 8 OF 11)</u></b> (4.6L)                         |
| P0157 | 20 | O2 Sensor Circuit Low Voltage (Bank 2, Sensor 2)          | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 8 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 8 OF 11)</u></b> (4.6L)                         |
| P0158 | 20 | O2 Sensor Circuit High Voltage (Bank 2, Sensor 2)         | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 8 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 8 OF 11)</u></b> (4.6L)                         |
| P0159 | 23 | O2 Sensor Circuit Slow Response (Bank 2, Sensor 2)        | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 8 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 8 OF 11)</u></b> (4.6L)                         |
| P0160 | 20 | O2 Sensor Circuit No Activity Detected (Bank 2, Sensor 2) | See Diagnosis For DTC P0156. <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 8 OF 11)</u></b> (4.4L) or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 8 OF 11)</u></b> (4.6L) |
| P0161 | 4  | O2 Sensor Heater Circuit (Bank 2, Sensor 2)               | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 8 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 8 OF 11)</u></b> (4.6L)                         |
| P0171 | 26 | System Too Lean (Bank 1)                                  | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 6 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 6 OF 11)</u></b> (4.6L)                         |
| P0172 | 26 | System Too Rich (Bank 1)                                  | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 6 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 6 OF 11)</u></b> (4.6L)                         |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     |                                    |                                                                                                                                                                                                   |
|-------|-----|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P0174 | 27  | System Too Lean (Bank 2)           | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 6 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62846 LEV/TEST GROUP: 2BMXT04.6XHP - 6 OF 11)</u></b> (4.6L)   |
| P0175 | 27  | System Too Rich (Bank 2)           | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 6 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62846 LEV/TEST GROUP: 2BMXT04.6XHP - 6 OF 11)</u></b> (4.6L)   |
| P0201 | 150 | Injector Circuit/Open - Cylinder 1 | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 11 OF 11)</u></b> (4.6L) |
| P0202 | 157 | Injector Circuit/Open - Cylinder 2 | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 11 OF 11)</u></b> (4.6L) |
| P0203 | 155 | Injector Circuit/Open - Cylinder 3 | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 11 OF 11)</u></b> (4.6L) |
| P0204 | 152 | Injector Circuit/Open - Cylinder 4 | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 11 OF 11)</u></b> (4.6L) |
| P0205 | 151 | Injector Circuit/Open - Cylinder 5 | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 11 OF 11)</u></b> (4.6L) |
| P0206 | 154 | Injector Circuit/Open - Cylinder 6 | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 11 OF 11)</u></b> (4.6L) |
| P0207 | 156 | Injector Circuit/Open - Cylinder 7 | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 11 OF 11)</u></b> (4.6L) |
| P0208 | 153 | Injector Circuit/Open -            | See <b><u>DTC CHART (ENGINE TYPE: M62B44</u></b>                                                                                                                                                  |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     |                                                                     |                                                                                                                                                                                                   |
|-------|-----|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |     | Cylinder 8                                                          | <b><u>LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 11 OF 11)</u></b> (4.6L)                                     |
| P0221 | 119 | Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 9 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 9 OF 11)</u></b> (4.6L)   |
| P0222 | 119 | Throttle/Pedal Position Sensor/Switch "B" Circuit Low               | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 9 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 9 OF 11)</u></b> (4.6L)   |
| P0223 | 119 | Throttle/Pedal Position Sensor/Switch "B" Circuit High              | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 9 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 9 OF 11)</u></b> (4.6L)   |
| P0261 | 150 | Cylinder 1, Injector Circuit Low                                    | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 11 OF 11)</u></b> (4.6L) |
| P0262 | 150 | Cylinder 1, Injector Circuit High                                   | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 11 OF 11)</u></b> (4.6L) |
| P0264 | 157 | Cylinder 2, Injector Circuit Low                                    | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 11 OF 11)</u></b> (4.6L) |
| P0265 | 157 | Cylinder 2, Injector Circuit High                                   | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 11 OF 11)</u></b> (4.6L) |
| P0267 | 155 | Cylinder 3, Injector Circuit Low                                    | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 11 OF 11)</u></b> (4.6L) |
| P0268 | 155 | Cylinder 3, Injector Circuit High                                   | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11</u></b>                                                                                                                |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     |                                   |                                                                                                                                                                                     |
|-------|-----|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |     |                                   | <b><u>OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 11 OF 11) (4.6L)</u></b>                                                                      |
| P0270 | 152 | Cylinder 4, Injector Circuit Low  | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 11 OF 11) (4.6L)</u></b> |
| P0271 | 152 | Cylinder 4, Injector Circuit High | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 11 OF 11) (4.6L)</u></b> |
| P0273 | 151 | Cylinder 5, Injector Circuit Low  | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 11 OF 11) (4.6L)</u></b> |
| P0274 | 151 | Cylinder 5, Injector Circuit High | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 11 OF 11) (4.6L)</u></b> |
| P0276 | 154 | Cylinder 6, Injector Circuit Low  | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 11 OF 11) (4.6L)</u></b> |
| P0277 | 154 | Cylinder 6, Injector Circuit High | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 11 OF 11) (4.6L)</u></b> |
| P0279 | 156 | Cylinder 7, Injector Circuit Low  | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 11 OF 11) (4.6L)</u></b> |
| P0280 | 156 | Cylinder 7, Injector Circuit High | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 11 OF 11) (4.6L)</u></b> |
| P0282 | 153 | Cylinder 8, Injector Circuit Low  | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11) (4.4L), or DTC CHART (ENGINE</u></b>                                                              |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     |                                                 |                                                                                                                                                                                                     |
|-------|-----|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |     |                                                 | <b><u>TYPE: M62B46 LEV/TEST GROUP:<br/>2BMXTO4.6XHP - 11 OF 11) (4.6L)</u></b>                                                                                                                      |
| P0283 | 153 | Cylinder 8, Injector<br>Circuit High            | See <b><u>DTC CHART (ENGINE TYPE: M62B44<br/>LEV/TEST GROUP: 2BMXT04.4E53 - 11<br/>OF 11) (4.4L), or DTC CHART (ENGINE<br/>TYPE: M62B46 LEV/TEST GROUP:<br/>2BMXTO4.6XHP - 11 OF 11) (4.6L)</u></b> |
| P0300 | 62  | Random/Multiple<br>Cylinder Misfire<br>Detected | See <b><u>DTC CHART (ENGINE TYPE: M62B44<br/>LEV/TEST GROUP: 2BMXT04.4E53 - 1 OF<br/>11) (4.4L), or DTC CHART (ENGINE<br/>TYPE: M62B46 LEV/TEST GROUP:<br/>2BMXT04.6XHP - 1 OF 11) (4.6L)</u></b>   |
| P0301 | 50  | Cylinder 1, Misfire<br>Detected                 | See <b><u>DTC CHART (ENGINE TYPE: M62B44<br/>LEV/TEST GROUP: 2BMXT04.4E53 - 1 OF<br/>11) (4.4L), or DTC CHART (ENGINE<br/>TYPE: M62B46 LEV/TEST GROUP:<br/>2BMXT04.6XHP - 1 OF 11) (4.6L)</u></b>   |
| P0302 | 57  | Cylinder 2, Misfire<br>Detected                 | See <b><u>DTC CHART (ENGINE TYPE: M62B44<br/>LEV/TEST GROUP: 2BMXT04.4E53 - 1 OF<br/>11) (4.4L), or DTC CHART (ENGINE<br/>TYPE: M62B46 LEV/TEST GROUP:<br/>2BMXT04.6XHP - 1 OF 11) (4.6L)</u></b>   |
| P0303 | 55  | Cylinder 3, Misfire<br>Detected                 | See <b><u>DTC CHART (ENGINE TYPE: M62B44<br/>LEV/TEST GROUP: 2BMXT04.4E53 - 1 OF<br/>11) (4.4L), or DTC CHART (ENGINE<br/>TYPE: M62B46 LEV/TEST GROUP:<br/>2BMXT04.6XHP - 1 OF 11) (4.6L)</u></b>   |
| P0304 | 52  | Cylinder 4, Misfire<br>Detected                 | See <b><u>DTC CHART (ENGINE TYPE: M62B44<br/>LEV/TEST GROUP: 2BMXT04.4E53 - 1 OF<br/>11) (4.4L), or DTC CHART (ENGINE<br/>TYPE: M62B46 LEV/TEST GROUP:<br/>2BMXT04.6XHP - 1 OF 11) (4.6L)</u></b>   |
| P0305 | 51  | Cylinder 5, Misfire<br>Detected                 | See <b><u>DTC CHART (ENGINE TYPE: M62B44<br/>LEV/TEST GROUP: 2BMXT04.4E53 - 1 OF<br/>11) (4.4L), or DTC CHART (ENGINE<br/>TYPE: M62B46 LEV/TEST GROUP:<br/>2BMXT04.6XHP - 1 OF 11) (4.6L)</u></b>   |
| P0306 | 54  | Cylinder 6, Misfire<br>Detected                 | See <b><u>DTC CHART (ENGINE TYPE: M62B44<br/>LEV/TEST GROUP: 2BMXT04.4E53 - 1 OF<br/>11) (4.4L), or DTC CHART (ENGINE<br/>TYPE: M62B46 LEV/TEST GROUP:<br/>2BMXT04.6XHP - 1 OF 11) (4.6L)</u></b>   |
| P0307 | 56  | Cylinder 7, Misfire<br>Detected                 | See <b><u>DTC CHART (ENGINE TYPE: M62B44<br/>LEV/TEST GROUP: 2BMXT04.4E53 - 1 OF<br/>11) (4.4L), or DTC CHART (ENGINE<br/>TYPE: M62B46 LEV/TEST GROUP:</u></b>                                      |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     |                                                                    | <b><u>2BMXT04.6XHP - 1 OF 11) (4.6L)</u></b>                                                                                                                                        |
|-------|-----|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P0308 | 53  | Cylinder 8, Misfire Detected                                       | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 1 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 1 OF 11) (4.6L)</u></b>   |
| P0324 | 214 | Knock Control System Error                                         | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 11 OF 11) (4.6L)</u></b> |
| P0327 | 210 | Knock Sensor 1, Circuit Low (Bank 1 or Single Sensor)              | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 11 OF 11) (4.6L)</u></b> |
| P0328 | 210 | Knock Sensor 1, Circuit High (Bank 1 or Single Sensor)             | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 11 OF 11) (4.6L)</u></b> |
| P0332 | 212 | Knock Sensor 2, Circuit Low (Bank 2)                               | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 11 OF 11) (4.6L)</u></b> |
| P0333 | 212 | Knock Sensor 2, Circuit High Input (Bank 2)                        | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 11 OF 11) (4.6L)</u></b> |
| P0335 | 111 | Crankshaft Position Sensor "A" Circuit                             | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 10 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 10 OF 11) (4.6L)</u></b> |
| P0340 | 113 | Camshaft Position Sensor "A" Circuit (Bank 1 or Single Sensor)     | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 10 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 10 OF 11) (4.6L)</u></b> |
| P0342 | 113 | Camshaft Position Sensor "A" Circuit Low (Bank 1 or Single Sensor) | See Diagnosis For DTC P0340. See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 10 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP:</u></b>    |

# 2002 BMW X5 30i

## 2002 DTC INDEX BMW

|       |     |                                                                     |                                                                                                                                                                                                                  |
|-------|-----|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |     |                                                                     | <b><u>2BMXTO4.6XHP - 10 OF 11) (4.6L)</u></b>                                                                                                                                                                    |
| P0343 | 113 | Camshaft Position Sensor "A" Circuit High (Bank 1 or Single Sensor) | See Diagnosis For DTC P0340. See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 10 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 10 OF 11) (4.6L)</u></b> |
| P0345 | 114 | Camshaft Position Sensor "A" Circuit (Bank 2)                       | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 10 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 10 OF 11) (4.6L)</u></b>                              |
| P0347 | 114 | Camshaft Position Sensor "A" Circuit Low (Bank 2)                   | See Diagnosis For DTC P0345. See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 10 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 10 OF 11) (4.6L)</u></b> |
| P0348 | 114 | Camshaft Position Sensor "A" Circuit High (Bank 2)                  | See Diagnosis For DTC P0345. See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 10 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 10 OF 11) (4.6L)</u></b> |
| P0370 | 112 | Timing Reference High Resolution Signal "A"                         | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 10 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 10 OF 11) (4.6L)</u></b>                              |
| P0412 | 85  | Secondary Air Injection System Switching Valve "A" Circuit          | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 5 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62846 LEV/TEST GROUP: 2BMXTO4.6XHP - 5 OF 11) (4.6L)</u></b>                                |
| P0413 | 85  | Secondary Air Injection System Switching Valve "A" Circuit Open     | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 5 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62846 LEV/TEST GROUP: 2BMXTO4.6XHP - 5 OF 11) (4.6L)</u></b>                                |
| P0414 | 85  | Secondary Air Injection System Switching Valve "A" Circuit Shorted  | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 5 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62846 LEV/TEST GROUP: 2BMXTO4.6XHP - 5 OF 11) (4.6L)</u></b>                                |
| P0418 | 84  | Secondary Air Injection System Control "A"                          | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 5 OF</u></b>                                                                                                                             |

# 2002 BMW X5 30i

## 2002 DTC INDEX BMW

|       |       | Circuit                                                         | <b><u>11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 5 OF 11)</u></b> (4.6L)                                                                        |
|-------|-------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P0420 | 40    | Catalyst System Efficiency Below Threshold (Bank 1)             | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 1 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 1 OF 11)</u></b> (4.6L) |
| P0430 | 45    | Catalyst System Efficiency Below Threshold (Bank 2)             | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 1 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 1 OF 11)</u></b> (4.6L) |
| P0440 | 93    | Evaporative Emission System                                     | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                                                    |
| P0441 | ..... | Evaporative Purge System Flow Check                             | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 2 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 2 OF 11)</u></b> (4.6L) |
| P0442 | 183   | Evaporative Emission System Leak Detected (Small Leak)          | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 3 OF 11)</u></b> (4.4L), or <b><u>DTC CHART ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 3 OF 11)</u></b> (4.6L)  |
| P0442 | 188   | Evaporative Emission System Leak Detected (Small Leak)          | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 3 OF 11)</u></b> (4.4L), or <b><u>DTC CHART ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 3 OF 11)</u></b> (4.6L)  |
| P0443 | 98    | Evaporative Emission System Purge Control Valve Circuit         | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 2 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 2 OF 11)</u></b> (4.6L) |
| P0444 | 98    | Evaporative Emission System Purge Control Valve Circuit Open    | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 2 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 2 OF 11)</u></b> (4.6L) |
| P0445 | 98    | Evaporative Emission System Purge Control Valve Circuit Shorted | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 2 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 2 OF 11)</u></b> (4.6L) |

# 2002 BMW X5 30i

## 2002 DTC INDEX BMW

|       |     |                                                             | <b><u>2BMXTO4.6XHP - 2 OF 11</u></b> (4.6L)                                                                                                                                                       |
|-------|-----|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P0450 | 185 | Evaporative Emission System Pressure Sensor/Switch          | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                                                      |
| P0452 | 185 | Evaporative Emission System Pressure Sensor/Switch Low      | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                                                      |
| P0453 | 185 | Evaporative Emission System Pressure Sensor/Switch High     | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                                                      |
| P0455 | 183 | Evaporative Emission System Leak Detected (Large Leak)      | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                                                      |
| P0455 | 188 | Evaporative Emission System Leak Detected (Large leak)      | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                                                      |
| P0456 | 187 | Evaporative Emission System Leak Detected (Very Small Leak) | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 4 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 4 OF 11)</u></b> (4.6L)   |
| P0491 | 80  | Secondary Air Injection System Insufficient Flow (Bank 1)   | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 5 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 4 OF 11)</u></b> (4.6L)   |
| P0492 | 81  | Secondary Air Injection System Insufficient Flow (Bank 2)   | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 5 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 4 OF 11)</u></b> (4.6L)   |
| P0500 | 120 | Vehicle Speed Sensor "A"                                    | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 10 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 10 OF 11)</u></b> (4.6L) |
| P0506 | 32  | Idle Air Control System RPM Lower Than Expected             | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 11 OF 11)</u></b> (4.6L) |

# 2002 BMW X5 30i

## 2002 DTC INDEX BMW

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| P0507 | 32    | Idle Air Control System<br>RPM Higher Than<br>Expected            | See <b><u>DTC CHART (ENGINE TYPE: M62B44<br/>LEV/TEST GROUP: 2BMXT04.4E53 - 11<br/>OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE<br/>TYPE: M62B46 LEV/TEST GROUP:<br/>2BMXTO4.6XHP - 11 OF 11)</u></b> (4.6L) |
| P0600 | 220   | Serial Communication<br>Link                                      | See <b><u>DTC CHART (ENGINE TYPE: M62B44<br/>LEV/TEST GROUP: 2BMXT04.4E53 - 11<br/>OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE<br/>TYPE: M62B46 LEV/TEST GROUP:<br/>2BMXTO4.6XHP - 11 OF 11)</u></b> (4.6L) |
| P0604 | ..... | ECM Self Check                                                    | See <b><u>DTC CHART (ENGINE TYPE: M62B44<br/>LEV/TEST GROUP: 2BMXT04.4E53 - 11<br/>OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE<br/>TYPE: M62B46 LEV/TEST GROUP:<br/>2BMXTO4.6XHP - 11 OF 11)</u></b> (4.6L) |
| P0605 | ..... | ECM Self Check                                                    | See <b><u>DTC CHART (ENGINE TYPE: M62B44<br/>LEV/TEST GROUP: 2BMXT04.4E53 - 11<br/>OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE<br/>TYPE: M62B46 LEV/TEST GROUP:<br/>2BMXTO4.6XHP - 11 OF 11)</u></b> (4.6L) |
| P0606 | ..... | ECM Self Check                                                    | See <b><u>DTC CHART (ENGINE TYPE: M62B44<br/>LEV/TEST GROUP: 2BMXT04.4E53 - 11<br/>OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE<br/>TYPE: M62B46 LEV/TEST GROUP:<br/>2BMXTO4.6XHP - 11 OF 11)</u></b> (4.6L) |
| P07XX | ..... | -                                                                 | These codes apply to electronically controlled<br>transmissions.                                                                                                                                                  |
| P09XX | ..... | -                                                                 | These codes apply to electronically controlled<br>transmissions.                                                                                                                                                  |
| P1143 | 17    | O2 Sensor Activity<br>Check Signal Too High<br>(Bank 1, Sensor 2) | See <b><u>DTC CHART (ENGINE TYPE: M62B46<br/>LEV/TEST GROUP: 2BMXTO4.6XHP - 8<br/>OF 11)</u></b>                                                                                                                  |
| P1144 | 17    | O2 Sensor Activity<br>Check Signal Too Low<br>(Bank 1, Sensor 2)  | See <b><u>DTC CHART (ENGINE TYPE: M62B46<br/>LEV/TEST GROUP: 2BMXTO4.6XHP - 8<br/>OF 11)</u></b>                                                                                                                  |
| P1149 | 23    | O2 Sensor Activity<br>Check Signal Too High<br>(Bank 2, Sensor 2) | See <b><u>DTC CHART (ENGINE TYPE: M62B46<br/>LEV/TEST GROUP: 2BMXTO4.6XHP - 8<br/>OF 11)</u></b>                                                                                                                  |
| P1150 | 23    | O2 Sensor Activity<br>Check Signal Too Low<br>(Bank 2, Sensor 2)  | Diagnostic information is not available. Use<br>BMW Diagnostic Information System Plus<br>(DISplus) or Group Tester One (GT-1) to<br>diagnose system.                                                             |
| P1158 | 28    | Fuel Trim Adaptation<br>Additive Low (Bank 1)                     | See <b><u>DTC CHART (ENGINE TYPE: M62B44<br/>LEV/TEST GROUP: 2BMXT04.4E53 - 6 OF<br/>11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE<br/>TYPE: M62B46 LEV/TEST GROUP:</u></b>                                      |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |    |                                                                                          | <b><u>2BMXTO4.6XHP - 6 OF 11) (4.6L)</u></b>                                                                                                                                                                                                              |
|-------|----|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P1159 | 28 | Fuel Trim Adaptation Additive High (Bank 1)                                              | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 6 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62846 LEV/TEST GROUP: 2BMXTO4.6XHP - 6 OF 11) -DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 8 OF 11) (4.6L)</u></b> |
| P1160 | 29 | Fuel Trim Adaptation Additive Low (Bank 2)                                               | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 6 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62846 LEV/TEST GROUP: 2BMXTO4.6XHP - 6 OF 11) (4.6L)</u></b>                                                                         |
| P1161 | 29 | Fuel Trim Adaptation Additive High (Bank 2) (M52: Engine Oil Temperature Sensor Circuit) | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 6 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62846 LEV/TEST GROUP: 2BMXTO4.6XHP - 6 OF 11) (4.6L)</u></b>                                                                         |
| P1168 | 15 | Post Catalyst Fuel Trim System Correction Value Above Threshold (Bank 1)                 | See <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 7 OF 11)</u></b>                                                                                                                                                                  |
| P1170 | 21 | Post Catalyst Fuel Trim System Correction Value Above Threshold (Bank 2)                 | See <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 7 OF 11)</u></b>                                                                                                                                                                  |
| P1200 | 24 | Fuel Trim Upper Adaptation Range, System Too Lean (Bank 1)                               | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 6 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62846 LEV/TEST GROUP: 2BMXTO4.6XHP - 6 OF 11) (4.6L)</u></b>                                                                         |
| P1201 | 24 | Fuel Trim Upper Adaptation Range, System Too Rich (Bank 1)                               | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 6 OF 11) (4.4L), or (4.6L) DTC CHART (ENGINE TYPE: M62846 LEV/TEST GROUP: 2BMXTO4.6XHP - 6 OF 11)</u></b>                                                                         |
| P1202 | 25 | Fuel Trim Upper Adaptation Range, System Too Lean (Bank 2)                               | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 6 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62846 LEV/TEST GROUP: 2BMXTO4.6XHP - 6 OF 11) (4.6L)</u></b>                                                                         |
| P1203 | 25 | Fuel Trim Upper Adaptation Range, System Too Rich (Bank 2)                               | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 6 OF 11) (4.4L), or DTC CHART (ENGINE TYPE: M62846 LEV/TEST GROUP: 2BMXTO4.6XHP - 6 OF 11) (4.6L)</u></b>                                                                         |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     |                                             |                                                                                                                                                                                                   |
|-------|-----|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P1327 | 211 | Knock Sensor 2 Circuit, Low Input (Bank 1)  | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 11 OF 11)</u></b> (4.6L) |
| P1328 | 211 | Knock Sensor 2 Circuit, High Input (Bank 1) | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 11 OF 11)</u></b> (4.6L) |
| P1332 | 213 | Knock Sensor 4 Circuit, Low Input           | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 11 OF 11)</u></b> (4.6L) |
| P1333 | 213 | Knock Sensor 4 Circuit, High Input          | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 11 OF 11)</u></b> (4.6L) |
| P1340 | 62  | Multiple Cylinder Misfire During Start      | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 1 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 1 OF 11)</u></b> (4.6L)   |
| P1341 | 62  | Multiple Cylinder Misfire with Fuel Cut-Off | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 2 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 2 OF 11)</u></b> (4.6L)   |
| P1342 | 50  | Misfire During Start, Cylinder 1            | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 1 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 1 OF 11)</u></b> (4.6L)   |
| P1343 | 50  | Misfire Cylinder 1 With Fuel Cut-Off        | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 2 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 2 OF 11)</u></b> (4.6L)   |
| P1344 | 57  | Misfire During Start, Cylinder 2            | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 1 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 1 OF 11)</u></b> (4.6L)   |
| P1345 | 57  | Misfire Cylinder 2 With                     | See <b><u>DTC CHART (ENGINE TYPE: M62B44</u></b>                                                                                                                                                  |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |    | Fuel Cut-Off                         | <b><u>LEV/TEST GROUP: 2BMXT04.4E53 - 2 OF 11</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 2 OF 11)</u></b> (4.6L)                                     |
|-------|----|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P1346 | 55 | Misfire During Start, Cylinder 3     | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 1 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 1 OF 11)</u></b> (4.6L) |
| P1347 | 55 | Misfire Cylinder 3 With Fuel Cut-Off | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 2 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 2 OF 11)</u></b> (4.6L) |
| P1348 | 52 | Misfire During Start, Cylinder 4     | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 1 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 1 OF 11)</u></b> (4.6L) |
| P1349 | 52 | Misfire Cylinder 4 With Fuel Cut-Off | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 2 OF 11)</u></b> (4.4L), or (4.6L) <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 2 OF 11)</u></b> |
| P1350 | 51 | Misfire during Start, Cylinder 5     | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 1 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 1 OF 11)</u></b> (4.6L) |
| P1351 | 51 | Misfire Cylinder 5 With Fuel Cut-Off | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 2 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 2 OF 11)</u></b> (4.6L) |
| P1352 | 54 | Misfire during Start, Cylinder 6     | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 1 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 1 OF 11)</u></b> (4.6L) |
| P1353 | 54 | Misfire Cylinder 6 With Fuel Cut-Off | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 2 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 2 OF 11)</u></b> (4.6L) |
| P1354 | 56 | Misfire during Start, Cylinder 7     | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 1 OF</u></b>                                                                                                            |

# 2002 BMW X5 30i

## 2002 DTC INDEX BMW

|       |       |                                                                 |                                                                                                                                                                                                   |
|-------|-------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |       |                                                                 | <b><u>11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 1 OF 11)</u></b> (4.6L)                                                                          |
| P1355 | 56    | Misfire Cylinder 7 With Fuel Cut-Off                            | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 2 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 2 OF 11)</u></b> (4.6L)   |
| P1356 | 53    | Misfire during Start, Cylinder 8                                | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 1 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 1 OF 11)</u></b> (4.6L)   |
| P1357 | 53    | Misfire Cylinder 8 With Fuel Cut-Off                            | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 2 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 2 OF 11)</u></b> (4.6L)   |
| P1381 | 215   | Control Module Self-Test, Knock Control Offset (Bank 1)         | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 11 OF 11)</u></b> (4.6L) |
| P1382 | 216   | Control Module Self-Test, Knock Control Test Pulse (Bank 1)     | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 11 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 11 OF 11)</u></b> (4.6L) |
| P1413 | 84    | Secondary Air Injection Pump Relay Control Circuit, Signal Low  | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 5 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62846 LEV/TEST GROUP: 2BMXT04.6XHP - 5 OF 11)</u></b> (4.6L)   |
| P1414 | 84    | Secondary Air Injection Pump Relay Control Circuit, Signal High | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 5 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62846 LEV/TEST GROUP: 2BMXT04.6XHP - 5 OF 11)</u></b> (4.6L)   |
| P1434 | ..... | Leakage Diagnostic Pump                                         | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 5 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62846 LEV/TEST GROUP: 2BMXT04.6XHP - 5 OF 11)</u></b> (4.6L)   |
| P1441 | 1     | Leakage Diagnostic Pump Control, Open Circuit                   | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to                                                                       |

# 2002 BMW X5 30i

## 2002 DTC INDEX BMW

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|-------|-----|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |     |                                                                                             | diagnose system.                                                                                                                                                                                |
| P1442 | 1   | Leakage Diagnostic Pump Control Circuit, Signal Low                                         | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                                                    |
| P1443 | 1   | Leakage Diagnostic Pump Control Circuit, Signal High                                        | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                                                    |
| P1444 | 186 | Diagnostic Module Tank Leakage (DM-TL) Pump Control Open Circuit                            | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 2 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 2 OF 11)</u></b> (4.6L) |
| P1445 | 186 | Diagnostic Module Tank Leakage (DM-TL) Pump Control Circuit Signal Low                      | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 2 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 2 OF 11)</u></b> (4.6L) |
| P1446 | 186 | Diagnostic Module Tank Leakage (DM-TL) Pump Control Circuit Signal High                     | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 2 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 2 OF 11)</u></b> (4.6L) |
| P1447 | 189 | Diagnostic Module Tank Leakage (DM-TL) Pump Current Too High during Switching Solenoid Test | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 5 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 5 OF 11)</u></b> (4.6L) |
| P1448 | 189 | Diagnostic Module Tank Leakage (DM-TL) Pump Current, Too Low                                | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 4 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 4 OF 11)</u></b> (4.6L) |
| P1449 | 189 | Diagnostic Module Tank Leakage (DM-TL) Pump Current, Too High                               | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 4 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 4 OF 11)</u></b> (4.6L) |
| P1450 | 2   | Diagnostic Module Tank Leakage (DM-TL) Switching Solenoid Control, Open Circuit             | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 2 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 2 OF 11)</u></b> (4.6L) |
| P1451 | 2   | Diagnostic Module Tank Leakage (DM-TL)                                                      | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 2 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 2 OF 11)</u></b> (4.6L) |

# 2002 BMW X5 30i

## 2002 DTC INDEX BMW

|       |     |                                                                                                          |                                                                                                                                                                                                   |
|-------|-----|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |     | Switching Solenoid Control Circuit, Signal Low                                                           | <b><u>11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 2 OF 11)</u></b> (4.6L)                                                                          |
| P1452 | 2   | Diagnostic Module Tank Leakage (DM-TL) Switching Solenoid Control Circuit, Signal High                   | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 2 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 2 OF 11)</u></b> (4.6L)   |
| P1476 | 184 | Leakage Diagnostic Pump Clamped Tube (M52 MY99/00: Leakage Diagnostic Pump Reed Switch Circuit)          | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                                                      |
| P1523 | 165 | "A" Camshaft Position Actuator Signal Low (Bank 1) (M52: "B" Camshaft Position Actuator Tight or Jammed) | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 10 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 10 OF 11)</u></b> (4.6L) |
| P1524 | 165 | "A" Camshaft Position Actuator Control Circuit Signal High (Bank 1)                                      | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 10 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 10 OF 11)</u></b> (4.6L) |
| P1525 | 165 | "A" Camshaft Position Actuator Control Open Circuit (Bank 1)                                             | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 10 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 10 OF 11)</u></b> (4.6L) |
| P1526 | 166 | "A" Camshaft Position Actuator Control Open Circuit (Bank 2)                                             | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 10 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 10 OF 11)</u></b> (4.6L) |
| P1527 | 166 | "A" Camshaft Position Actuator Control Circuit Signal Low (Bank 2)                                       | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 10 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 10 OF 11)</u></b> (4.6L) |
| P1528 | 166 | "A" Camshaft Position Actuator Control Circuit Signal High (Bank 2)                                      | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 10 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXTO4.6XHP - 10 OF 11)</u></b> (4.6L) |
| P1636 | 132 | Throttle Valve Control                                                                                   | Diagnostic information is not available. Use                                                                                                                                                      |

## 2002 BMW X5 30i

### 2002 DTC INDEX BMW

|       |       | Circuit                                                     | BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                                                                                                 |
|-------|-------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P1637 | 130   | Throttle Valve Position Control, Control Deviation          | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 9 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 9 OF 11)</u></b> (4.6L) |
| P1638 | 131   | Throttle Valve Position Control, Throttle Stuck Temporarily | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 9 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 9 OF 11)</u></b> (4.6L) |
| P1639 | 131   | Throttle Valve Position Control, Throttle Stuck Permanently | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXT04.4E53 - 9 OF 11)</u></b> (4.4L), or <b><u>DTC CHART (ENGINE TYPE: M62B46 LEV/TEST GROUP: 2BMXT04.6XHP - 9 OF 11)</u></b> (4.6L) |
| P17XX | ..... | .....                                                       | These codes apply to electronically controlled transmissions.                                                                                                                                   |
| P18XX | ..... | .....                                                       | These codes apply to electronically controlled transmissions.                                                                                                                                   |

### SELF-DIAGNOSTICS DIAGNOSTIC TROUBLE CODES (DTC) LIST - ECU: ME7.2, ENGINE: M62 E39, FROM 9-1-01 To 8-31-02

| PCode | BMW-FC | PCode Text                                                                | Diagnosis                                                                                 |
|-------|--------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| P0010 | 33     | "A" Camshaft Position Actuator Circuit (Bank 1)                           | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 10 OF 11)</u></b> |
| P0011 | 33     | "A" Camshaft Position Timing Over-Advanced Or System Performance (Bank 1) | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 10 OF 11)</u></b> |
| P0012 | 33     | "A" Camshaft Position Timing Over-Retarded (Bank 1)                       | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 10 OF 11)</u></b> |
| P0020 | 34     | "A" Camshaft Position Actuator Circuit (Bank 2)                           | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 10 OF 11)</u></b> |
| P0021 | 34     | "A" Camshaft Position Timing Over-Advanced Or System Performance (Bank 2) | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 10 OF 11)</u></b> |
| P0022 | 34     | "A" Camshaft Position Timing Over-Retarded                                | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 10 OF 11)</u></b> |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       | (Bank 2)                                     | <u>2BMXV04.4LEV - 10 OF 11)</u>                                                   |
|-------|-------|----------------------------------------------|-----------------------------------------------------------------------------------|
| P0030 | ..... | Oxygen Sensor Heater Circuit                 | See <u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 11)</u> |
| P0031 | ..... | Oxygen Sensor Heater Circuit                 | See <u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 11)</u> |
| P0032 | ..... | Oxygen Sensor Heater Circuit                 | See <u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 11)</u> |
| P0036 | ..... | Oxygen Sensor Heater Circuit                 | See <u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 11)</u> |
| P0037 | ..... | Oxygen Sensor Heater Circuit                 | See <u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 11)</u> |
| P0038 | ..... | Oxygen Sensor Heater Circuit                 | See <u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 11)</u> |
| P0050 | ..... | Oxygen Sensor Heater Circuit                 | See <u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 11)</u> |
| P0051 | ..... | Oxygen Sensor Heater Circuit                 | See <u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 11)</u> |
| P0052 | ..... | Oxygen Sensor Heater Circuit                 | See <u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 11)</u> |
| P0056 | ..... | Oxygen Sensor Heater Circuit                 | See <u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 11)</u> |
| P0057 | ..... | Oxygen Sensor Heater Circuit                 | See <u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 11)</u> |
| P0058 | ..... | Oxygen Sensor Heater Circuit                 | See <u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 11)</u> |
| P0102 | 115   | Mass or Volume Air Flow Circuit, Low Input   | See <u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 9 OF 11)</u> |
| P0103 | 115   | Mass or Volume Air Flow Circuit, High Input  | See <u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 9 OF 11)</u> |
| P0112 | 124   | Intake Air Temperature Sensor 1, Circuit Low | See <u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP:</u>                         |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     |                                                                     |                                                                                                                           |
|-------|-----|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
|       |     |                                                                     | <b><u>2BMXV04.4LEV - 10 OF 11)</u></b>                                                                                    |
| P0113 | 124 | Intake Air Temperature Sensor 1, Circuit High                       | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 10 OF 11)</u></b>                                 |
| P0116 | 123 | Engine Coolant Temperature Circuit Range/Performance                | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 9 OF 11)</u></b>                                  |
| P0117 | 123 | Engine Coolant Temperature Circuit, Low                             | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 9 OF 11)</u></b>                                  |
| P0118 | 123 | Engine Coolant Temperature Circuit, High                            | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 9 OF 11)</u></b>                                  |
| P0119 | 123 | Engine Coolant Temperature Circuit, Intermittent                    | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 9 OF 11)</u></b>                                  |
| P0120 | 117 | Throttle/Pedal Position Sensor/Switch "A" Circuit                   | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 9 OF 11)</u></b>                                  |
| P0121 | 118 | Throttle/Pedal Position Sensor/Switch "A" Circuit Range/Performance | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 9 OF 11)</u></b>                                  |
| P0122 | 118 | Throttle/Pedal Position Sensor/Switch "A" Circuit Low               | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 9 OF 11)</u></b>                                  |
| P0123 | 118 | Throttle/Pedal Position Sensor/Switch "A" Circuit High              | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 9 OF 11)</u></b>                                  |
| P0130 | 10  | O2 Sensor Circuit (Bank 1, Sensor 1)                                | Perform Diagnosis For DTC P0131. See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 11)</u></b> |
| P0131 | 10  | O2 Sensor Circuit Low Voltage (Bank 1, Sensor 1)                    | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 11)</u></b>                                  |
| P0132 | 10  | O2 Sensor Circuit High Voltage (Bank 1, Sensor 1)                   | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 11)</u></b>                                  |
| P0133 | 15  | O2 Sensor Circuit Slow Response (Bank 1, Sensor 1)                  | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 11)</u></b>                                  |
| P0134 | 10  | O2 Sensor Circuit No Activity Detected (Bank 1, Sensor 1)           | Perform Diagnosis For DTC P0131. See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 7</u></b>        |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |    |                                                           | <b>OF 11)</b>                                                                                                             |
|-------|----|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| P0135 | 13 | O2 Sensor Heater Circuit (Bank 1, Sensor 1)               | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 11)</u></b>                                  |
| P0136 | 12 | O2 Sensor Circuit (Bank 1, Sensor 2)                      | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 11)</u></b>                                  |
| P0137 | 12 | O2 Sensor Circuit Low Voltage (Bank 1, Sensor 2)          | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 11)</u></b>                                  |
| P0138 | 12 | O2 Sensor Circuit High Voltage (Bank 1, Sensor 2)         | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 11)</u></b>                                  |
| P0139 | 17 | O2 Sensor Circuit Slow Response (Bank 1, Sensor 2)        | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 11)</u></b>                                  |
| P0140 | 12 | O2 Sensor Circuit No Activity Detected (Bank 1, Sensor 2) | Perform Diagnosis For DTC P0136. See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 11)</u></b> |
| P0141 | 14 | O2 Sensor Heater Circuit (Bank 1, Sensor 2)               | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 11)</u></b>                                  |
| P0150 | 18 | O2 Sensor Circuit (Bank 2, Sensor 1)                      | Perform Diagnosis For DTC P0151. See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 11)</u></b> |
| P0151 | 18 | O2 Sensor Circuit Low Voltage (Bank 2, Sensor 1)          | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 11)</u></b>                                  |
| P0152 | 18 | O2 Sensor Circuit High Voltage (Bank 2, Sensor 1)         | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 11)</u></b>                                  |
| P0153 | 21 | O2 Sensor Circuit Slow Response (Bank 2, Sensor 1)        | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 11)</u></b>                                  |
| P0154 | 18 | O2 Sensor Circuit No Activity Detected (Bank 2, Sensor 1) | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 11)</u></b>                                  |
| P0155 | 5  | O2 Sensor Heater Circuit (Bank 2, Sensor 1)               | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 11)</u></b>                                  |
| P0156 | 20 | O2 Sensor Circuit (Bank 2, Sensor 2)                      | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 11)</u></b>                                  |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     |                                                           |                                                                                           |
|-------|-----|-----------------------------------------------------------|-------------------------------------------------------------------------------------------|
| P0157 | 20  | O2 Sensor Circuit Low Voltage (Bank 2, Sensor 2)          | See <u><b>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 11)</b></u>  |
| P0158 | 20  | O2 Sensor Circuit High Voltage (Bank 2, Sensor 2)         | See <u><b>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 11)</b></u>  |
| P0159 | 23  | O2 Sensor Circuit Slow Response (Bank 2, Sensor 2)        | See <u><b>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 11)</b></u>  |
| P0160 | 20  | O2 Sensor Circuit No Activity Detected (Bank 2, Sensor 2) | See <u><b>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 11)</b></u>  |
| P0161 | 4   | O2 Sensor Heater Circuit (Bank 2, Sensor 2)               | See <u><b>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 11)</b></u>  |
| P0171 | 24  | System Too Lean (Bank 1)                                  | See <u><b>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 11)</b></u>  |
| P0171 | 26  | System Too Lean (Bank 1)                                  | See <u><b>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 11)</b></u>  |
| P0172 | 24  | System Too Rich (Bank 1)                                  | See <u><b>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 11)</b></u>  |
| P0172 | 26  | System Too Rich (Bank 1)                                  | See <u><b>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 11)</b></u>  |
| P0174 | 25  | System Too Lean (Bank 2)                                  | See <u><b>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 11)</b></u>  |
| P0174 | 27  | System Too Lean (Bank 2)                                  | See <u><b>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 11)</b></u>  |
| P0175 | 25  | System Too Rich (Bank 2)                                  | See <u><b>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 11)</b></u>  |
| P0175 | 27  | System Too Rich (Bank 2)                                  | See <u><b>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 11)</b></u>  |
| P0201 | 150 | Injector Circuit/Open - Cylinder 1                        | See <u><b>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 11 OF 11)</b></u> |
| P0202 | 157 | Injector Circuit/Open - Cylinder 2                        | See <u><b>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 11 OF 11)</b></u> |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     |                                                                              |                                                                                                   |
|-------|-----|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| P0203 | 155 | Injector Circuit/Open -<br>Cylinder 3                                        | See <b><u>DTC CHART (ENGINE TYPE:<br/>M62B44 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 11 OF 11)</u></b> |
| P0204 | 152 | Injector Circuit/Open -<br>Cylinder 4                                        | See <b><u>DTC CHART (ENGINE TYPE:<br/>M62B44 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 11 OF 11)</u></b> |
| P0205 | 151 | Injector Circuit/Open -<br>Cylinder 5                                        | See <b><u>DTC CHART (ENGINE TYPE:<br/>M62B44 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 11 OF 11)</u></b> |
| P0206 | 154 | Injector Circuit/Open -<br>Cylinder 6                                        | See <b><u>DTC CHART (ENGINE TYPE:<br/>M62B44 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 11 OF 11)</u></b> |
| P0207 | 156 | Injector Circuit/Open -<br>Cylinder 7                                        | See <b><u>DTC CHART (ENGINE TYPE:<br/>M62B44 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 11 OF 11)</u></b> |
| P0208 | 153 | Injector Circuit/Open -<br>Cylinder 8                                        | See <b><u>DTC CHART (ENGINE TYPE:<br/>M62B44 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 11 OF 11)</u></b> |
| P0221 | 119 | Throttle/Pedal Position<br>Sensor/Switch "B"<br>Circuit<br>Range/Performance | See <b><u>DTC CHART (ENGINE TYPE:<br/>M62B44 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 9 OF 11)</u></b>  |
| P0222 | 119 | Throttle/Pedal Position<br>Sensor/Switch "B"<br>Circuit Low                  | See <b><u>DTC CHART (ENGINE TYPE:<br/>M62B44 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 9 OF 11)</u></b>  |
| P0223 | 119 | Throttle/Pedal Position<br>Sensor/Switch "B"<br>Circuit High                 | See <b><u>DTC CHART (ENGINE TYPE:<br/>M62B44 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 9 OF 11)</u></b>  |
| P0261 | 150 | Cylinder 1, Injector<br>Circuit Low                                          | See <b><u>DTC CHART (ENGINE TYPE:<br/>M62B44 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 11 OF 11)</u></b> |
| P0262 | 150 | Cylinder 1, Injector<br>Circuit High                                         | See <b><u>DTC CHART (ENGINE TYPE:<br/>M62B44 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 11 OF 11)</u></b> |
| P0264 | 157 | Cylinder 2, Injector<br>Circuit Low                                          | See <b><u>DTC CHART (ENGINE TYPE:<br/>M62B44 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 11 OF 11)</u></b> |
| P0265 | 157 | Cylinder 2, Injector<br>Circuit High                                         | See <b><u>DTC CHART (ENGINE TYPE:<br/>M62B44 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 11 OF 11)</u></b> |
| P0267 | 155 | Cylinder 3, Injector<br>Circuit Low                                          | See <b><u>DTC CHART (ENGINE TYPE:<br/>M62B44 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 11 OF 11)</u></b> |
| P0268 | 155 | Cylinder 3, Injector<br>Circuit High                                         | See <b><u>DTC CHART (ENGINE TYPE:<br/>M62B44 LEV/TEST GROUP:</u></b>                              |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     |                                           |                                                                                           |
|-------|-----|-------------------------------------------|-------------------------------------------------------------------------------------------|
|       |     |                                           | <b><u>2BMXV04.4LEV - 11 OF 11)</u></b>                                                    |
| P0270 | 152 | Cylinder 4, Injector Circuit Low          | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 11 OF 11)</u></b> |
| P0271 | 152 | Cylinder 4, Injector Circuit High         | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 11 OF 11)</u></b> |
| P0273 | 151 | Cylinder 5, Injector Circuit Low          | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 11 OF 11)</u></b> |
| P0274 | 151 | Cylinder 5, Injector Circuit High         | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 11 OF 11)</u></b> |
| P0276 | 154 | Cylinder 6, Injector Circuit Low          | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 11 OF 11)</u></b> |
| P0277 | 154 | Cylinder 6, Injector Circuit High         | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 11 OF 11)</u></b> |
| P0279 | 156 | Cylinder 7, Injector Circuit Low          | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 11 OF 11)</u></b> |
| P0280 | 156 | Cylinder 7, Injector Circuit High         | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 11 OF 11)</u></b> |
| P0282 | 153 | Cylinder 8, Injector Circuit Low          | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 11 OF 11)</u></b> |
| P0283 | 153 | Cylinder 8, Injector Circuit High         | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 11 OF 11)</u></b> |
| P0300 | 62  | Random/Multiple Cylinder Misfire Detected | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 1 OF 11)</u></b>  |
| P0301 | 50  | Cylinder 1, Misfire Detected              | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 1 OF 11)</u></b>  |
| P0302 | 57  | Cylinder 2, Misfire Detected              | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 1 OF 11)</u></b>  |
| P0303 | 55  | Cylinder 3, Misfire Detected              | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 1 OF 11)</u></b>  |
| P0304 | 52  | Cylinder 4, Misfire Detected              | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP:</u></b>                          |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     |                                                                    |                                                                                                                            |
|-------|-----|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
|       |     |                                                                    | <b><u>2BMXV04.4LEV - 1 OF 11)</u></b>                                                                                      |
| P0305 | 51  | Cylinder 5, Misfire Detected                                       | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 1 OF 11)</u></b>                                   |
| P0306 | 54  | Cylinder 6, Misfire Detected                                       | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 1 OF 11)</u></b>                                   |
| P0307 | 56  | Cylinder 7, Misfire Detected                                       | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 1 OF 11)</u></b>                                   |
| P0308 | 53  | Cylinder 8, Misfire Detected                                       | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 1 OF 11)</u></b>                                   |
| P0324 | 214 | Knock Control System Error                                         | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 11 OF 11)</u></b>                                  |
| P0324 | 215 | Knock Control System Error                                         | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 11 OF 11)</u></b>                                  |
| P0324 | 216 | Knock Control System Error                                         | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 11 OF 11)</u></b>                                  |
| P0327 | 210 | Knock Sensor 1, Circuit Low (Bank 1 or Single Sensor)              | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 11 OF 11)</u></b>                                  |
| P0328 | 210 | Knock Sensor 1, Circuit High (Bank 1 or Single Sensor)             | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 11 OF 11)</u></b>                                  |
| P0332 | 212 | Knock Sensor 2, Circuit Low (Bank 2)                               | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 11 OF 11)</u></b>                                  |
| P0333 | 212 | Knock Sensor 2, Circuit High Input (Bank 2)                        | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 11 OF 11)</u></b>                                  |
| P0335 | 111 | Crankshaft Position Sensor "A" Circuit                             | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 10 OF 11)</u></b>                                  |
| P0340 | 113 | Camshaft Position Sensor "A" Circuit (Bank 1 Or Single Sensor)     | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 10 OF 11)</u></b>                                  |
| P0342 | 113 | Camshaft Position Sensor "A" Circuit Low (Bank 1 Or Single Sensor) | Perform Diagnosis For DTC P0340. See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 10 OF 11)</u></b> |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       |                                                                     |                                                                                                                                              |
|-------|-------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| P0343 | 113   | Camshaft Position Sensor "A" Circuit High (Bank 1 or Single Sensor) | Perform Diagnosis For DTC P0340. See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 10 OF 11)</u></b>                   |
| P0345 | 114   | Camshaft Position Sensor "A" Circuit (Bank 2)                       | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 10 OF 11)</u></b>                                                    |
| P0347 | 114   | Camshaft Position Sensor "A" Circuit Low (Bank 2)                   | Perform Diagnosis For DTC P0345. See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 10 OF 11)</u></b>                   |
| P0348 | 114   | Camshaft Position Sensor "A" Circuit High (Bank 2)                  | Perform Diagnosis For DTC P0345. See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 10 OF 11)</u></b>                   |
| P0370 | 112   | Timing Reference High Resolution Signal "A"                         | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 10 OF 11)</u></b>                                                    |
| P0412 | 85    | Secondary Air Injection System Switching Valve A Circuit            | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 5 OF 11)</u></b>                                                     |
| P0413 | 85    | Secondary Air Injection System Switching Valve "A", Circuit Open    | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 5 OF 11)</u></b>                                                     |
| P0414 | 85    | Secondary Air Injection System Switching Valve "A", Circuit Shorted | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 5 OF 11)</u></b>                                                     |
| P0418 | 84    | Secondary Air Injection System Control "A" Circuit                  | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 5 OF 11)</u></b>                                                     |
| P0420 | 40    | Catalyst System Efficiency Below Threshold (Bank 1)                 | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 1 OF 11)</u></b>                                                     |
| P0430 | 45    | Catalyst System Efficiency Below Threshold (Bank 2)                 | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 1 OF 11)</u></b>                                                     |
| P0440 | 93    | Evaporative Emission System                                         | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P0441 | ..... | Evaporative Purge System Flow Check                                 | See <b><u>DTC CHART ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 2 OF 11)</u></b>                                                      |
| P0442 | 183   | Evaporative Emission System Leak Detected                           | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP:</u></b>                                                                             |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |     | (Small Leak)                                                     | <b><u>2BMXV04.4LEV - 3 OF 11)</u></b>                                                                                                        |
|-------|-----|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| P0442 | 188 | Evaporative Emission System Leak Detected (Small Leak)           | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 3 OF 11)</u></b>                                                     |
| P0443 | 98  | Evaporative Emission System Purge Control Valve Circuit          | See <b><u>DTC CHART ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 2 OF 11)</u></b>                                                      |
| P0444 | 98  | Evaporative Emission System Purge Control Valve Circuit, Open    | See <b><u>DTC CHART ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 2 OF 11)</u></b>                                                      |
| P0445 | 98  | Evaporative Emission System Purge Control Valve Circuit, Shorted | See <b><u>DTC CHART ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 2 OF 11)</u></b>                                                      |
| P0450 | 185 | Evaporative Emission System Pressure Sensor/Switch               | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P0452 | 185 | Evaporative Emission System Pressure Sensor/Switch Low           | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P0453 | 185 | Evaporative Emission System Pressure Sensor/Switch High          | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P0455 | 183 | Evaporative Emission System Leak Detected (Large Leak)           | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P0455 | 188 | Evaporative Emission System Leak Detected (Large Leak)           | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P0456 | 187 | Evaporative Emission System Leak Detected (Very Small Leak)      | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 4 OF 11)</u></b>                                                     |
| P0491 | 80  | Secondary Air Injection System Insufficient Flow (Bank 1)        | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 5 OF 11)</u></b>                                                     |
| P0492 | 81  | Secondary Air Injection System Insufficient Flow (Bank 2)        | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 5 OF 11)</u></b>                                                     |
| P0500 | 120 | Vehicle Speed Sensor "A"                                         | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 10 OF 11)</u></b>                                                    |
|       |     |                                                                  |                                                                                                                                              |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|          |       |                                                                       |                                                                                                                                              |
|----------|-------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| P0506    | 32    | Idle Air Control System<br>RPM Lower Than<br>Expected                 | See <b><u>DTC CHART (ENGINE TYPE:<br/>M62B44 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 11 OF 11)</u></b>                                            |
| P0507    | 32    | Idle Air Control System<br>RPM Higher Than<br>Expected                | See <b><u>DTC CHART (ENGINE TYPE:<br/>M62B44 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 11 OF 11)</u></b>                                            |
| P0600-06 | 220   | Serial Communication<br>Link                                          | See <b><u>DTC CHART (ENGINE TYPE:<br/>M62B44 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 11 OF 11)</u></b>                                            |
| P07XX    | ..... | .....                                                                 | These codes apply to electronically controlled transmissions.                                                                                |
| P09XX    | ..... | .....                                                                 | These codes apply to electronically controlled transmissions.                                                                                |
| P1134    | 13    | O2 Sensor Heater Circuit<br>Signal Intermittent<br>(Bank 1, Sensor 1) | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P1135    | 13    | O2 Sensor Heater Circuit<br>Low Voltage (Bank 1,<br>Sensor 1)         | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P1136    | 13    | O2 Sensor Heater Circuit<br>High Voltage (Bank 1,<br>Sensor 1)        | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P1137    | 14    | O2 Sensor Heater Circuit<br>Signal Intermittent<br>(Bank 1, Sensor 2) | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P1138    | 14    | O2 Sensor Heater Circuit<br>Low Voltage (Bank 1,<br>Sensor 2)         | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P1139    | 14    | O2 Sensor Heater Circuit<br>High Voltage (Bank 1,<br>Sensor 2)        | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P1143    | ..... | Oxygen Sensor Range &<br>Activity Check                               | See <b><u>DTC CHART (ENGINE TYPE:<br/>M62B44 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 8 OF 11)</u></b>                                             |
| P1144    | ..... | Oxygen Sensor Range &<br>Activity Check                               | See <b><u>DTC CHART (ENGINE TYPE:<br/>M62B44 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 8 OF 11)</u></b>                                             |
| P1149    | ..... | Oxygen Sensor Range &<br>Activity Check                               | See <b><u>DTC CHART (ENGINE TYPE:<br/>M62B44 LEV/TEST GROUP:</u></b>                                                                         |

# 2002 BMW X5 30i

## 2002 DTC INDEX BMW

| <b><u>2BMXV04.4LEV - 8 OF 11)</u></b> |       |                                                                                          |                                                                                                                                                                       |
|---------------------------------------|-------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P1151                                 | 5     | O2 Sensor Heater Circuit Signal Intermittent (Bank 2, Sensor 1)                          | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                          |
| P1152                                 | 5     | O2 Sensor Heater Circuit Low Voltage (Bank 2, Sensor 1)                                  | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                          |
| P1153                                 | 5     | O2 Sensor Heater Circuit High Voltage (Bank 2, Sensor 1)                                 | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                          |
| P1155                                 | 4     | O2 Sensor Heater Circuit Signal Intermittent (Bank 2, Sensor 2)                          | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                          |
| P1156                                 | 4     | O2 Sensor Heater Circuit Low Voltage (Bank 2, Sensor 2)                                  | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                          |
| P1157                                 | 4     | O2 Sensor Heater Circuit High Voltage (Bank 2, Sensor 2)                                 | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system.                          |
| P1158                                 | 28    | Fuel Trim Adaptation Additive Low (Bank 1)                                               | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 11)</u></b>                                                                              |
| P1159                                 | 28    | Fuel Trim Adaptation Additive High (Bank 1)                                              | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 11) &amp; DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 11)</u></b> |
| P1160                                 | 29    | Fuel Trim Adaptation Additive Low (Bank 2)                                               | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 11)</u></b>                                                                              |
| P1161                                 | 29    | Fuel Trim Adaptation Additive High (Bank 2) (M52: Engine Oil Temperature Sensor Circuit) | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 11)</u></b>                                                                              |
| P1168                                 | ..... | Oxygen Sensor Correction                                                                 | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 11)</u></b>                                                                              |
|                                       |       |                                                                                          |                                                                                                                                                                       |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       |                                             |                                                                                    |
|-------|-------|---------------------------------------------|------------------------------------------------------------------------------------|
| P1170 | ..... | Oxygen Sensor Correction                    | See <u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 11)</u>  |
| P1200 | ..... | Fuel Trim Limits Exceeded                   | See <u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 11)</u>  |
| P1201 | ..... | Fuel Trim Limits Exceeded                   | See <u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 11)</u>  |
| P1202 | ..... | Fuel Trim Limits Exceeded                   | See <u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 11)</u>  |
| P1203 | ..... | Fuel Trim Limits Exceeded                   | See <u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 11)</u>  |
| P1327 | 211   | Knock Sensor 2 Circuit, Low Input (Bank 1)  | See <u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 11 OF 11)</u> |
| P1328 | 211   | Knock Sensor 2 Circuit, High Input (Bank 1) | See <u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 11 OF 11)</u> |
| P1332 | 213   | Knock Sensor 4 Circuit, Low Input           | See <u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 11 OF 11)</u> |
| P1333 | 213   | Knock Sensor 4 Circuit, High Input          | See <u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 11 OF 11)</u> |
| P1340 | 62    | Multiple Cylinder Misfire During Start      | See <u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 1 OF 11)</u>  |
| P1341 | 62    | Multiple Cylinder Misfire With Fuel Cut-Off | See <u>DTC CHART ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 2 OF 11)</u>   |
| P1342 | 50    | Misfire During Start, Cylinder 1            | See <u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 1 OF 11)</u>  |
| P1343 | 50    | Misfire Cylinder 1 With Fuel Cut-Off        | See <u>DTC CHART ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 2 OF 11)</u>   |
| P1344 | 57    | Misfire During Start, Cylinder 2            | See <u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 1 OF 11)</u>  |
| P1345 | 57    | Misfire Cylinder 2 With Fuel Cut-Off        | See <u>DTC CHART ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 2 OF 11)</u>   |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       |                                                                      |                                                                                                        |
|-------|-------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| P1346 | 55    | Misfire During Start,<br>Cylinder 3                                  | See <u>DTC CHART (ENGINE TYPE:</u><br><u>M62B44 LEV/TEST GROUP:</u><br><u>2BMXV04.4LEV - 1 OF 11)</u>  |
| P1347 | 55    | Misfire Cylinder 3 With<br>Fuel Cut-Off                              | See <u>DTC CHART ENGINE TYPE:</u><br><u>M62B44 LEV/TEST GROUP:</u><br><u>2BMXV04.4LEV - 2 OF 11)</u>   |
| P1348 | 52    | Misfire During Start,<br>Cylinder 4                                  | See <u>DTC CHART (ENGINE TYPE:</u><br><u>M62B44 LEV/TEST GROUP:</u><br><u>2BMXV04.4LEV - 1 OF 11)</u>  |
| P1349 | 52    | Misfire Cylinder 4 With<br>Fuel Cut-Off                              | See <u>DTC CHART ENGINE TYPE:</u><br><u>M62B44 LEV/TEST GROUP:</u><br><u>2BMXV04.4LEV - 2 OF 11)</u>   |
| P1350 | 51    | Misfire During Start,<br>Cylinder 5                                  | See <u>DTC CHART (ENGINE TYPE:</u><br><u>M62B44 LEV/TEST GROUP:</u><br><u>2BMXV04.4LEV - 1 OF 11)</u>  |
| P1351 | 51    | Misfire Cylinder 5 With<br>Fuel Cut-Off                              | See <u>DTC CHART ENGINE TYPE:</u><br><u>M62B44 LEV/TEST GROUP:</u><br><u>2BMXV04.4LEV - 2 OF 11)</u>   |
| P1352 | 54    | Misfire During Start,<br>Cylinder 6                                  | See <u>DTC CHART (ENGINE TYPE:</u><br><u>M62B44 LEV/TEST GROUP:</u><br><u>2BMXV04.4LEV - 1 OF 11)</u>  |
| P1353 | 54    | Misfire Cylinder 6 With<br>Fuel Cut-Off                              | See <u>DTC CHART ENGINE TYPE:</u><br><u>M62B44 LEV/TEST GROUP:</u><br><u>2BMXV04.4LEV - 2 OF 11)</u>   |
| P1354 | 56    | Misfire During Start,<br>Cylinder 7                                  | See <u>DTC CHART (ENGINE TYPE:</u><br><u>M62B44 LEV/TEST GROUP:</u><br><u>2BMXV04.4LEV - 1 OF 11)</u>  |
| P1355 | 56    | Misfire Cylinder 7 With<br>Fuel Cut-Off                              | See <u>DTC CHART ENGINE TYPE:</u><br><u>M62B44 LEV/TEST GROUP:</u><br><u>2BMXV04.4LEV - 2 OF 11)</u>   |
| P1356 | 53    | Misfire During Start<br>Cylinder 8                                   | See <u>DTC CHART (ENGINE TYPE:</u><br><u>M62B44 LEV/TEST GROUP:</u><br><u>2BMXV04.4LEV - 1 OF 11)</u>  |
| P1357 | 53    | Misfire Cylinder 8 With<br>Fuel Cut-Off                              | See <u>DTC CHART ENGINE TYPE:</u><br><u>M62B44 LEV/TEST GROUP:</u><br><u>2BMXV04.4LEV - 2 OF 11)</u>   |
| P1381 | ..... | Knock Sensor System<br>Error                                         | See <u>DTC CHART (ENGINE TYPE:</u><br><u>M62B44 LEV/TEST GROUP:</u><br><u>2BMXV04.4LEV - 11 OF 11)</u> |
| P1382 | ..... | Knock Sensor System<br>Error                                         | See <u>DTC CHART (ENGINE TYPE:</u><br><u>M62B44 LEV/TEST GROUP:</u><br><u>2BMXV04.4LEV - 11 OF 11)</u> |
| P1413 | 84    | Secondary Air Injection<br>Pump Relay Control<br>Circuit, Signal Low | See <u>DTC CHART (ENGINE TYPE:</u><br><u>M62B44 LEV/TEST GROUP:</u><br><u>2BMXV04.4LEV - 5 OF 11)</u>  |

# 2002 BMW X5 30i

## 2002 DTC INDEX BMW

|       |       |                                                                                             |                                                                                                                                              |
|-------|-------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| P1414 | 84    | Secondary Air Injection Pump Relay Control Circuit, Signal High                             | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 5 OF 11)</u></b>                                                     |
| P1434 | ..... | EVAP Leak Diagnosis                                                                         | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 5 OF 11)</u></b>                                                     |
| P1441 | 1     | Leakage Diagnostic Pump Control Open Circuit                                                | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P1442 | 1     | Leakage Diagnostic Pump Control Circuit, Signal Low                                         | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P1443 | 1     | Leakage Diagnostic Pump Control Circuit, Signal High                                        | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P1444 | 186   | Diagnostic Module Tank Leakage (DM-TL) Pump Control Open Circuit                            | See <b><u>DTC CHART ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 2 OF 11)</u></b>                                                      |
| P1445 | 186   | Diagnostic Module Tank Leakage (DM-TL) Pump Control Circuit, Signal Low                     | See <b><u>DTC CHART ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 2 OF 11)</u></b>                                                      |
| P1446 | 186   | Diagnostic Module Tank Leakage (DM-TL) Pump Control Circuit, Signal High                    | See <b><u>DTC CHART ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 2 OF 11)</u></b>                                                      |
| P1447 | 189   | Diagnostic Module Tank Leakage (DM-TL) Pump Current Too High during Switching Solenoid Test | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 5 OF 11)</u></b>                                                     |
| P1448 | 189   | Diagnostic Module Tank Leakage (DM-TL) Pump Current Too Low                                 | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 4 OF 11)</u></b>                                                     |
| P1449 | 189   | Diagnostic Module Tank Leakage (DM-TL) Pump Current Too High                                | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 4 OF 11)</u></b>                                                     |
| P1450 | 2     | Diagnostic Module Tank Leakage (DM-TL) Switching Solenoid Control Open Circuit              | See <b><u>DTC CHART ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 2 OF 11)</u></b>                                                      |
| P1451 | 2     | Diagnostic Module Tank Leakage (DM-TL)                                                      | See <b><u>DTC CHART ENGINE TYPE: M62B44 LEV/TEST GROUP:</u></b>                                                                              |

# 2002 BMW X5 30i

## 2002 DTC INDEX BMW

|       |     |                                                                                                                         |                                                                                                                                                       |
|-------|-----|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |     | Switching Solenoid<br>Control Circuit Signal<br>Low                                                                     | <u>2BMXV04.4LEV - 2 OF 11)</u>                                                                                                                        |
| P1452 | 2   | Diagnostic Module Tank<br>Leakage (DM-TL)<br>Switching Solenoid<br>Control Circuit Signal<br>High                       | See <u>DTC CHART ENGINE TYPE:</u><br><u>M62B44 LEV/TEST GROUP:</u><br><u>2BMXV04.4LEV - 2 OF 11)</u>                                                  |
| P1476 | 184 | Leakage Diagnostic<br>Pump Clamped Tube<br>(M52 MY99/00:<br>Leakage Diagnostic<br>Pump Reed Switch<br>Circuit)          | Diagnostic information is not available. Use<br>BMW Diagnostic Information System Plus<br>(DISplus) or Group Tester One (GT-1) to<br>diagnose system. |
| P1523 | 165 | "A" Camshaft Position<br>Actuator Signal Low<br>(Bank 1) (M52: "B"<br>Camshaft Position<br>Actuator Tight or<br>Jammed) | See <u>DTC CHART (ENGINE TYPE:</u><br><u>M62B44 LEV/TEST GROUP:</u><br><u>2BMXV04.4LEV - 10 OF 11)</u>                                                |
| P1524 | 165 | "A" Camshaft Position<br>Actuator Control Circuit<br>Signal High (Bank 1)                                               | See <u>DTC CHART (ENGINE TYPE:</u><br><u>M62B44 LEV/TEST GROUP:</u><br><u>2BMXV04.4LEV - 10 OF 11)</u>                                                |
| P1525 | 165 | "A" Camshaft Position<br>Actuator Control Open<br>Circuit (Bank 1)                                                      | See <u>DTC CHART (ENGINE TYPE:</u><br><u>M62B44 LEV/TEST GROUP:</u><br><u>2BMXV04.4LEV - 10 OF 11)</u>                                                |
| P1526 | 166 | "A" Camshaft Position<br>Actuator Control Open<br>Circuit (Bank 2)                                                      | See <u>DTC CHART (ENGINE TYPE:</u><br><u>M62B44 LEV/TEST GROUP:</u><br><u>2BMXV04.4LEV - 10 OF 11)</u>                                                |
| P1527 | 166 | "A" Camshaft Position<br>Actuator Control Circuit<br>Signal Low (Bank 2)                                                | See <u>DTC CHART (ENGINE TYPE:</u><br><u>M62B44 LEV/TEST GROUP:</u><br><u>2BMXV04.4LEV - 10 OF 11)</u>                                                |
| P1528 | 166 | "A" Camshaft Position<br>Actuator Control Circuit<br>Signal High (Bank 2)                                               | See <u>DTC CHART (ENGINE TYPE:</u><br><u>M62B44 LEV/TEST GROUP:</u><br><u>2BMXV04.4LEV - 10 OF 11)</u>                                                |
| P1636 | 132 | Throttle Valve Control<br>Circuit                                                                                       | Diagnostic information is not available. Use<br>BMW Diagnostic Information System Plus<br>(DISplus) or Group Tester One (GT-1) to<br>diagnose system. |
| P1637 | 130 | Throttle Valve Position<br>Control, Control<br>Deviation                                                                | See <u>DTC CHART (ENGINE TYPE:</u><br><u>M62B44 LEV/TEST GROUP:</u><br><u>2BMXV04.4LEV - 9 OF 11)</u>                                                 |
| P1638 | 131 | Throttle Valve Position<br>Control, Throttle Stuck<br>Temporarily                                                       | See <u>DTC CHART (ENGINE TYPE:</u><br><u>M62B44 LEV/TEST GROUP:</u><br><u>2BMXV04.4LEV - 9 OF 11)</u>                                                 |
|       |     |                                                                                                                         |                                                                                                                                                       |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       |                                                             |                                                                                          |
|-------|-------|-------------------------------------------------------------|------------------------------------------------------------------------------------------|
| P1639 | 131   | Throttle Valve Position Control, Throttle Stuck Permanently | See <b><u>DTC CHART (ENGINE TYPE: M62B44 LEV/TEST GROUP: 2BMXV04.4LEV - 9 OF 11)</u></b> |
| P17XX | ..... | .....                                                       | These codes apply to electronically controlled transmissions.                            |
| P18XX | ..... | .....                                                       | These codes apply to electronically controlled transmissions.                            |

**SELF-DIAGNOSTICS DIAGNOSTIC TROUBLE CODES (DTC) LIST - ECU: ME9.2, ENGINE: E65/66, FROM 11-1-01 To 8-31-02**

| <b>PCode</b> | <b>BMW-FC</b> | <b>PCode Text</b>                                                         | <b>Diagnosis</b>                                                                        |
|--------------|---------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| P0011        | 10033         | "A" Camshaft Position Timing Over-Advanced Or System Performance (Bank 1) | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 9)</u></b> |
| P0012        | 10033         | "A" Camshaft Position Timing Over-Retarded (Bank 1)                       | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 9)</u></b> |
| P0014        | 10171         | "B" Camshaft Position Timing Over-Advanced Or System Performance (Bank 1) | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 9)</u></b> |
| P0015        | 10171         | "B" Camshaft Position Timing Over-Retarded (Bank 1)                       | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 9)</u></b> |
| P0021        | 10034         | "A" Camshaft Position Timing Over-Advanced Or System Performance (Bank 2) | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 9)</u></b> |
| P0022        | 10034         | "A" Camshaft Position Timing Over-Retarded (Bank 2)                       | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 9)</u></b> |
| P0024        | 10172         | "B" Camshaft Position Timing Over-Advanced Or System Performance (Bank 2) | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 9)</u></b> |
| P0025        | 10172         | "B" Camshaft Position Timing Over-Retarded (Bank 2)                       | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 9)</u></b> |
| P0030        | 10013         | HO2S Heater Control Circuit (Bank 1, Sensor 1)                            | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 5 OF 9)</u></b> |
| P0031        | 10013         | HO2S Heater Control Circuit Low (Bank 1, Sensor 1)                        | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 5 OF 9)</u></b> |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       |                                                               |                                                                                         |
|-------|-------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| P0032 | 10013 | HO2S Heater Control Circuit High (Bank 1, Sensor 1)           | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 5 OF 9)</b></u> |
| P0036 | 10014 | HO2S Heater Control Circuit (Bank 1, Sensor 2)                | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 5 OF 9)</b></u> |
| P0037 | 10014 | HO2S Heater Control Circuit Low (Bank 1, Sensor 2)            | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 5 OF 9)</b></u> |
| P0038 | 10014 | HO2S Heater Control Circuit High (Bank 1, Sensor 2)           | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 5 OF 9)</b></u> |
| P0040 | 10003 | O2 Sensor Signals Swapped (Bank 1, Sensor 1/Bank 2, Sensor 1) | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 9)</b></u> |
| P0050 | 10005 | HO2S Heater Control Circuit (Bank 2, Sensor 1)                | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 5 OF 9)</b></u> |
| P0051 | 10005 | HO2S Heater Control Circuit Low (Bank 2, Sensor 1)            | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 5 OF 9)</b></u> |
| P0052 | 10005 | HO2S Heater Control Circuit High (Bank 2, Sensor 1)           | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 5 OF 9)</b></u> |
| P0056 | 10004 | HO2S Heater Control Circuit (Bank 2, Sensor 2)                | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 5 OF 9)</b></u> |
| P0057 | 10004 | HO2S Heater Control Circuit Low (Bank 2, Sensor 2)            | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 5 OF 9)</b></u> |
| P0058 | 10004 | HO2S Heater Control Circuit High (Bank 2, Sensor 2)           | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 5 OF 9)</b></u> |
| P0102 | 10115 | Mass or Volume Air Flow Circuit, Low Input                    | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 9)</b></u> |
| P0103 | 10115 | Mass or Volume Air Flow Circuit, High Input                   | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 9)</b></u> |
| P0112 | 10124 | Intake Air Temperature Sensor 1, Circuit Low                  | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 9)</b></u> |
| P0113 | 10124 | Intake Air Temperature Sensor 1, Circuit High                 | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 9)</b></u> |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       |                                                                                  |                                                                                         |
|-------|-------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
|       |       |                                                                                  | <b><u>2BMXV04.4LEV - 7 OF 9)</u></b>                                                    |
| P0115 | 10123 | Engine Coolant Temperature Circuit                                               | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 9)</u></b> |
| P0116 | 10123 | Engine Coolant Temperature Circuit Range/Performance                             | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 9)</u></b> |
| P0117 | 10123 | Engine Coolant Temperature Circuit Low                                           | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 9)</u></b> |
| P0118 | 10123 | Engine Coolant Temperature Circuit High                                          | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 9)</u></b> |
| P0120 | 10117 | Throttle/Pedal Position Sensor/Switch "A" Circuit                                | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 9)</u></b> |
| P0121 | 10118 | Throttle/Pedal Position Sensor/Switch "A" Circuit Range/Performance              | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 9)</u></b> |
| P0122 | 10118 | Throttle/Pedal Position Sensor/Switch "A" Circuit Low                            | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 9)</u></b> |
| P0123 | 10118 | Throttle/Pedal Position Sensor/Switch "A" Circuit High                           | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 9)</u></b> |
| P0128 | 10139 | Coolant Thermostat (Coolant Temperature Below Thermostat Regulating Temperature) | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 9)</u></b> |
| P0130 | 10010 | O2 Sensor Circuit (Bank 1, Sensor 1)                                             | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 4 OF 9)</u></b> |
| P0133 | 10010 | O2 Sensor Circuit Slow Response (Bank 1, Sensor 1)                               | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 4 OF 9)</u></b> |
| P0135 | 10013 | O2 Sensor Heater Circuit (Bank 1, Sensor 1)                                      | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 5 OF 9)</u></b> |
| P0136 | 10012 | O2 Sensor Circuit (Bank 1, Sensor 2)                                             |                                                                                         |
| P0137 | 10012 | O2 Sensor Circuit Low Voltage (Bank 1, Sensor 2)                                 | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 5 OF 9)</u></b> |
| P0138 | 10012 | O2 Sensor Circuit High                                                           | See <b><u>DTC CHART (ENGINE TYPE:</u></b>                                               |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       | Voltage (Bank 1, Sensor 2)                                | <b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 5 OF 9)</u></b>                                                                 |
|-------|-------|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| P0139 | 10017 | O2 Sensor Circuit Slow Response (Bank 1, Sensor 2)        | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 5 OF 9)</u></b>                    |
| P0140 | 10012 | O2 Sensor Circuit No Activity Detected (Bank 1, Sensor 2) | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 5 OF 9)</u></b>                    |
| P0141 | 10014 | O2 Sensor Heater Circuit (Bank 1, Sensor 2)               | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 5 OF 9)</u></b>                    |
| P0150 | 10018 | O2 Sensor Circuit (Bank 2, Sensor 1)                      | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 4 OF 9)</u></b>                    |
| P0153 | 10018 | O2 Sensor Circuit Slow Response (Bank 2, Sensor 1)        | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 4 OF 9)</u></b>                    |
| P0155 | 10005 | O2 Sensor Heater Circuit (Bank 2, Sensor 1)               | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 5 OF 9)</u></b>                    |
| P0156 | 10020 | O2 Sensor Circuit (Bank 2, Sensor 2)                      | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P0157 | 10020 | O2 Sensor Circuit Low Voltage (Bank 2, Sensor 2)          | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 5 OF 9)</u></b>                    |
| P0158 | 10020 | O2 Sensor Circuit High Voltage (Bank 2, Sensor 2)         | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 5 OF 9)</u></b>                    |
| P0159 | 10023 | O2 Sensor Circuit Slow Response (Bank 2, Sensor 2)        | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 5 OF 9)</u></b>                    |
| P0160 | 10020 | O2 Sensor Circuit No Activity Detected (Bank 2, Sensor 2) | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 5 OF 9)</u></b>                    |
| P0161 | 10004 | O2 Sensor Heater Circuit (Bank 2, Sensor 2)               | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 5 OF 9)</u></b>                    |
| P0171 | 10026 | System Too Lean (Bank 1)                                  | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 4 OF 9)</u></b>                    |
| P0172 | 10026 | System Too Rich (Bank 1)                                  | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 4 OF 9)</u></b>                    |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       |                                                                     |                                                                                         |
|-------|-------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| P0174 | 10027 | System Too Lean (Bank 2)                                            | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 4 OF 9)</u></b> |
| P0175 | 10027 | System Too Rich (Bank 2)                                            | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 4 OF 9)</u></b> |
| P0201 | 10150 | Injector Circuit/Open - Cylinder 1                                  | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</u></b> |
| P0202 | 10157 | Injector Circuit/Open - Cylinder 2                                  | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</u></b> |
| P0203 | 10155 | Injector Circuit/Open - Cylinder 3                                  | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</u></b> |
| P0204 | 10152 | Injector Circuit/Open - Cylinder 4                                  | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</u></b> |
| P0205 | 10151 | Injector Circuit/Open - Cylinder 5                                  | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</u></b> |
| P0206 | 10154 | Injector Circuit/Open - Cylinder 6                                  | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</u></b> |
| P0207 | 10156 | Injector Circuit/Open - Cylinder 7                                  | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</u></b> |
| P0208 | 10153 | Injector Circuit/Open - Cylinder 8                                  | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</u></b> |
| P0221 | 10119 | Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 9)</u></b> |
| P0222 | 10119 | Throttle/Pedal Position Sensor/Switch "B" Circuit Low               | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 9)</u></b> |
| P0223 | 10119 | Throttle/Pedal Position Sensor/Switch "B" Circuit High              | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 9)</u></b> |
| P0261 | 10150 | Cylinder 1 Injector, Circuit Low                                    | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</u></b> |
| P0262 | 10150 | Cylinder 1 Injector, Circuit High                                   | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</u></b> |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       |                                      |                                                                                                 |
|-------|-------|--------------------------------------|-------------------------------------------------------------------------------------------------|
|       |       |                                      | <b><u>2BMXV04.4LEV - 8 OF 9)</u></b>                                                            |
| P0264 | 10157 | Cylinder 2 Injector,<br>Circuit Low  | See <b><u>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 8 OF 9)</u></b> |
| P0265 | 10157 | Cylinder 2 Injector,<br>Circuit High | See <b><u>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 8 OF 9)</u></b> |
| P0267 | 10155 | Cylinder 3 Injector,<br>Circuit Low  | See <b><u>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 8 OF 9)</u></b> |
| P0268 | 10155 | Cylinder 3 Injector,<br>Circuit High | See <b><u>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 8 OF 9)</u></b> |
| P0270 | 10152 | Cylinder 4 Injector,<br>Circuit Low  | See <b><u>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 8 OF 9)</u></b> |
| P0271 | 10152 | Cylinder 4 Injector,<br>Circuit High | See <b><u>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 8 OF 9)</u></b> |
| P0273 | 10151 | Cylinder 5 Injector,<br>Circuit Low  | See <b><u>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 8 OF 9)</u></b> |
| P0274 | 10151 | Cylinder 5 Injector,<br>Circuit High | See <b><u>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 8 OF 9)</u></b> |
| P0276 | 10154 | Cylinder 6 Injector,<br>Circuit Low  | See <b><u>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 8 OF 9)</u></b> |
| P0277 | 10154 | Cylinder 6 Injector,<br>Circuit High | See <b><u>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 8 OF 9)</u></b> |
| P0279 | 10156 | Cylinder 7 Injector,<br>Circuit Low  | See <b><u>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 8 OF 9)</u></b> |
| P0280 | 10156 | Cylinder 7 Injector,<br>Circuit High | See <b><u>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 8 OF 9)</u></b> |
| P0282 | 10153 | Cylinder 8 Injector,<br>Circuit Low  | See <b><u>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 8 OF 9)</u></b> |
| P0283 | 10153 | Cylinder 8 Injector,<br>Circuit High | See <b><u>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 8 OF 9)</u></b> |
| P0300 | 10062 | Random/Multiple<br>Cylinder Misfire  | See <b><u>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:</u></b>                            |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       | Detected                                                       | <u>2BMXV04.4LEV - 8 OF 9)</u>                                                    |
|-------|-------|----------------------------------------------------------------|----------------------------------------------------------------------------------|
| P0301 | 10050 | Cylinder 1, Misfire Detected                                   | See <u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 1 OF 9)</u> |
| P0302 | 10057 | Cylinder 2, Misfire Detected                                   | See <u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 1 OF 9)</u> |
| P0303 | 10055 | Cylinder 3, Misfire Detected                                   | See <u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 1 OF 9)</u> |
| P0304 | 10052 | Cylinder 4, Misfire Detected                                   | See <u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 1 OF 9)</u> |
| P0305 | 10051 | Cylinder 5, Misfire Detected                                   | See <u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 1 OF 9)</u> |
| P0306 | 10054 | Cylinder 6, Misfire Detected                                   | See <u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 1 OF 9)</u> |
| P0307 | 10056 | Cylinder 7, Misfire Detected                                   | See <u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 1 OF 9)</u> |
| P0308 | 10053 | Cylinder 8, Misfire Detected                                   | See <u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 1 OF 9)</u> |
| P0327 | 10210 | Knock Sensor 1 Circuit Low (Bank 1 or Single Sensor)           | See <u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 9 OF 9)</u> |
| P0328 | 10210 | Knock Sensor 1 Circuit High (Bank 1 or Single Sensor)          | See <u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 9 OF 9)</u> |
| P0332 | 10212 | Knock Sensor 2, Circuit Low (Bank 2)                           | See <u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 9 OF 9)</u> |
| P0333 | 10212 | Knock Sensor 2, Circuit High (Bank 2)                          | See <u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 9 OF 9)</u> |
| P0335 | 10111 | Crankshaft Position Sensor "A" Circuit                         | See <u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 9)</u> |
| P0340 | 10113 | Camshaft Position Sensor "A" Circuit (Bank 1 Or Single Sensor) | See <u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 9)</u> |
| P0341 | 10113 | Camshaft Position                                              | See <u>DTC CHART (ENGINE TYPE:</u>                                               |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       | Sensor "A" Circuit<br>Range/Performance<br>(Bank 1 Or Single<br>Sensor)      | <u><b>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 7 OF 9)</b></u>                                 |
|-------|-------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| P0342 | 10113 | Camshaft Position<br>Sensor "A" Circuit Low<br>(Bank 1 Or Single<br>Sensor)  | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 7 OF 9)</b></u> |
| P0343 | 10113 | Camshaft Position<br>Sensor "A" Circuit High<br>(Bank 1 or Single<br>Sensor) | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 7 OF 9)</b></u> |
| P0345 | 10175 | Camshaft Position<br>Sensor "A" Circuit<br>(Bank 2)                          | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 7 OF 9)</b></u> |
| P0346 | 10175 | Camshaft Position<br>Sensor "A" Circuit<br>Range/Performance<br>(Bank 2)     | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 7 OF 9)</b></u> |
| P0347 | 10175 | Camshaft Position<br>Sensor "A" Circuit Low<br>(Bank 2)                      | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 7 OF 9)</b></u> |
| P0348 | 10175 | Camshaft Position<br>Sensor "A" Circuit High<br>(Bank 2)                     | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 7 OF 9)</b></u> |
| P0365 | 10114 | Camshaft Position<br>Sensor "B" Circuit (Bank<br>1)                          | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 7 OF 9)</b></u> |
| P0366 | 10114 | Camshaft Position<br>Sensor "B" Circuit<br>Range/Performance<br>(Bank 1)     | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 7 OF 9)</b></u> |
| P0367 | 10114 | Camshaft Position<br>Sensor "B" Circuit Low<br>(Bank 1)                      | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 7 OF 9)</b></u> |
| P0368 | 10114 | Camshaft Position<br>Sensor "B" Circuit High<br>(Bank 1)                     | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 7 OF 9)</b></u> |
| P0370 | 10112 | Timing Reference High<br>Resolution Signal "A"                               | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 7 OF 9)</b></u> |
| P0390 | 10176 | Camshaft Position<br>Sensor "B" Circuit (Bank<br>2)                          | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 7 OF 9)</b></u> |
| P0391 | 10176 | Camshaft Position                                                            | See <u><b>DTC CHART (ENGINE TYPE:</b></u>                                                       |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       | Sensor "B" Circuit<br>Range/Performance<br>(Bank 2)                    | <u><b>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 7 OF 9)</b></u>                                                                                       |
|-------|-------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| P0392 | 10176 | Camshaft Position<br>Sensor "B" Circuit Low<br>Input (Bank 2)          | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 7 OF 9)</b></u>                                                       |
| P0393 | 10176 | Camshaft Position<br>Sensor "B" Circuit High<br>Input (Bank 2)         | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 7 OF 9)</b></u>                                                       |
| P0418 | 10084 | Secondary Air Injection<br>System Control "A"<br>Circuit               | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 3 OF 9)</b></u>                                                       |
| P0420 | 10040 | Catalyst System<br>Efficiency Below<br>Threshold (Bank 1)              | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 1 OF 9)</b></u>                                                       |
| P0430 | 10045 | Catalyst System<br>Efficiency Below<br>Threshold (Bank 2)              | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 1 OF 9)</b></u>                                                       |
| P0441 | 10093 | Evaporative Emission<br>System, Incorrect Purge<br>Flow                | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 1 OF 9)</b></u>                                                       |
| P0442 | 10188 | Evaporative Emission<br>System, Leak Detected<br>(Small Leak)          | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 2 OF 9)</b></u>                                                       |
| P0443 | 10098 | Evaporative Emission<br>System, Purge Control<br>Valve Circuit         | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 2 OF 9)</b></u>                                                       |
| P0444 | 10098 | Evaporative Emission<br>System, Purge Control<br>Valve Circuit Open    | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 2 OF 9)</b></u>                                                       |
| P0445 | 10098 | Evaporative Emission<br>System, Purge Control<br>Valve Circuit Shorted | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 2 OF 9)</b></u>                                                       |
| P0455 | 10188 | Evaporative Emission<br>System, Leak Detected<br>(Large Leak)          | Diagnostic information is not available. Use<br>BMW Diagnostic Information System Plus<br>(DISplus) or Group Tester One (GT-1) to<br>diagnose system. |
| P0456 | ..... | EVAP System Leak<br>Diagnosis                                          | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 3 OF 9)</b></u>                                                       |
| P0491 | 10080 | Secondary Air Injection<br>System Insufficient Flow<br>(Bank 1)        | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 3 OF 9)</b></u>                                                       |
| P0492 | 10081 | Secondary Air Injection<br>System Insufficient Flow                    | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:</b></u>                                                                                  |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       | (Bank 2)                                                                       | <u>2BMXV04.4LEV - 3 OF 9)</u>                                                            |
|-------|-------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| P0500 | 10120 | Vehicle Speed Sensor<br>"A"                                                    | See <u>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 7 OF 9)</u> |
| P0506 | 10197 | Idle Air Control System<br>RPM Lower Than<br>Expected                          | See <u>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 8 OF 9)</u> |
| P0507 | 10197 | Idle Air Control System<br>RPM Higher Than<br>Expected                         | See <u>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 8 OF 9)</u> |
| P0604 | ..... | ECM Self Check                                                                 | See <u>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 8 OF 9)</u> |
| P0605 | ..... | ECM Self Check                                                                 | See <u>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 8 OF 9)</u> |
| P0606 | ..... | ECM Self Check                                                                 | See <u>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 8 OF 9)</u> |
| P07XX | ..... | .....                                                                          | These codes apply to electronically controlled transmissions.                            |
| P09XX | ..... | .....                                                                          | These codes apply to electronically controlled transmissions.                            |
| P1041 | 10334 | Internal VVT-Control<br>Module EEPROM Error<br>(Bank 1)                        | See <u>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 8 OF 9)</u> |
| P1042 | 10334 | Internal VVT-Control<br>Module Random Access<br>Memory (RAM) Error<br>(Bank 1) | See <u>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 8 OF 9)</u> |
| P1043 | 10334 | Internal VVT-Control<br>Module Read Only<br>Memory (ROM) Error<br>(Bank 1)     | See <u>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 8 OF 9)</u> |
| P1044 | 10335 | Internal VVT-Control<br>Module EEPROM Error<br>(Bank 2)                        | See <u>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 8 OF 9)</u> |
| P1045 | 10335 | Internal VVT-Control<br>Module Random Access<br>Memory (RAM) Error<br>(Bank 2) | See <u>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 8 OF 9)</u> |
| P1046 | 10335 | Internal VVT-Control<br>Module Read Only<br>Memory (ROM) Error<br>(Bank 2)     | See <u>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 8 OF 9)</u> |
|       |       |                                                                                |                                                                                          |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       |                                                      |                                                                                         |
|-------|-------|------------------------------------------------------|-----------------------------------------------------------------------------------------|
| P1047 | 10336 | VVT-Control Circuit High Input (Bank 1)              | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</b></u> |
| P1048 | 10336 | VVT-Control Circuit Low Input (Bank 1)               | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</b></u> |
| P1049 | 10336 | VVT-Control Circuit Engine Cables Low Input (Bank 1) | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</b></u> |
| P1050 | 10336 | VVT-Control Circuit (Bank 1)                         | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</b></u> |
| P1051 | 10337 | VVT-Control Circuit High Input (Bank 2)              | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</b></u> |
| P1052 | 10337 | VVT-Control Circuit Low Input (Bank 2)               | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</b></u> |
| P1053 | 10337 | VVT-Control Circuit Engine Cables Low Input (Bank 2) | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</b></u> |
| P1054 | 10337 | VVT-Control Circuit (Bank 2)                         | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</b></u> |
| P1055 | 10338 | VVT-Supply Voltage Control Motor High Input (Bank 1) | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</b></u> |
| P1056 | 10338 | VVT-Supply Voltage Control Motor Low Input (Bank 1)  | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</b></u> |
| P1057 | 10338 | VVT-Supply Voltage Control Motor Electrical (Bank 1) | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</b></u> |
| P1058 | 10339 | VVT-Supply Voltage Control Motor High Input (Bank 2) | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</b></u> |
| P1059 | 10339 | VVT-Supply Voltage Control Motor Low Input (Bank 2)  | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</b></u> |
| P1060 | 10339 | VVT-Supply Voltage Control Motor Electrical (Bank 2) | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</b></u> |
| P1061 | 10341 | VVT-Limp Home Request RPM & Air Mass Limitation      | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</b></u> |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       |                                                                                                                        |                                                                                                                                              |
|-------|-------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| P1062 | 10341 | VVT-Limp Home Request Full Stroke Position Not Reached                                                                 | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</u></b>                                                      |
| P1063 | 10341 | VVT-Limp Home Request Air Mass Plausibility                                                                            | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P1065 | 10227 | VVT-CAN-Timeout No Signal                                                                                              | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</u></b>                                                      |
| P1066 | 10227 | VVT-CAN-Message Monitoring Faulty Actual Message                                                                       | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</u></b>                                                      |
| P1071 | 10334 | Internal VVT-Control Module Watchdog or Temperature Sensor Error (Bank 1)                                              | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P1072 | 10335 | Internal VVT-Control Module Watchdog Or Temperature Sensor Error (Bank 2)                                              | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P1100 | 10275 | O2 Sensor Circuit Slow Response After Coast Down Fuel Cut-Off (Bank 1 Sensor 1) (S62: Air Mass Flow Sensor High Input) | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</u></b>                                                      |
| P1101 | 10276 | O2 Sensor Circuit Slow Response After Coast Down Fuel Cut-Off (Bank 2 Sensor 1)                                        | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 5 OF 9)</u></b>                                                      |
| P1111 | 10125 | Engine Coolant Temperature Sensor Radiator Outlet Low Input                                                            | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 9)</u></b>                                                      |
| P1112 | 10125 | Engine Coolant Temperature Sensor Radiator Outlet High Input                                                           | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 9)</u></b>                                                      |
| P1130 | 10017 | O2 Sensor Circuit Dynamic Test (Bank 1, Sensor 2)                                                                      | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P1131 | 10023 | O2 Sensor Circuit Dynamic Test (Bank 2, Sensor 2)                                                                      | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to                  |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       |                                                                                             | diagnose system.                                                                        |
|-------|-------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| P1143 | 10017 | O2 Sensor Activity Check Signal Too High (Bank 1, Sensor 2)                                 | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 5 OF 9)</b></u> |
| P1144 | 10017 | O2 Sensor Activity Check Signal Too Low (Bank 1, Sensor 2)                                  | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 5 OF 9)</b></u> |
| P1149 | 10023 | O2 Sensor Activity Check Signal Too High (Bank 2, Sensor 2)                                 | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 5 OF 9)</b></u> |
| P1150 | 10023 | O2 Sensor Activity Check Signal Too Low (Bank 2, Sensor 2)                                  | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 5 OF 9)</b></u> |
| P1158 | 10028 | Fuel Trim Adaptation Additive Low (Bank 1)                                                  | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 4 OF 9)</b></u> |
| P1159 | 10028 | Fuel Trim Adaptation Additive High (Bank 1)                                                 | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 4 OF 9)</b></u> |
| P1160 | 10029 | Fuel Trim Adaptation Additive Low (Bank 2)                                                  | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 4 OF 9)</b></u> |
| P1161 | 10029 | Fuel Trim Adaptation Additive High (Bank 2)<br>(M52: Engine Oil Temperature Sensor Circuit) | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 4 OF 9)</b></u> |
| P1167 | 10010 | HO2S Heater Coupling Signal Too High (Bank 1 Sensor 1)                                      | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 4 OF 9)</b></u> |
| P1168 | 10010 | Post Catalyst Fuel Trim System Correction Value above Threshold (Bank 1)                    | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 4 OF 9)</b></u> |
| P1169 | 10018 | HO2S Heater Coupling Signal Too High (Bank 2 Sensor 1)                                      | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 4 OF 9)</b></u> |
| P1170 | 10018 | Post Catalyst Fuel Trim System Correction Value above Threshold (Bank 2)                    | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 4 OF 9)</b></u> |
| P1172 | ..... | Fuel System Fuel Trim Limits Exceeded                                                       | See <u><b>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 4 OF 9)</b></u> |
| P1200 | 10024 | Fuel Trim Upper                                                                             | See <u><b>DTC CHART (ENGINE TYPE:</b></u>                                               |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       |                                                                    |                                                                                                                                                       |
|-------|-------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |       | Adaptation Range<br>System Too Lean (Bank<br>1)                    | <b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 4 OF 9)</u></b>                                                                          |
| P1201 | 10024 | Fuel Trim Upper<br>Adaptation Range<br>System Too Rich (Bank<br>1) | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 4 OF 9)</u></b>                             |
| P1202 | 10025 | Fuel Trim Upper<br>Adaptation Range<br>System Too Lean (Bank<br>2) | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 4 OF 9)</u></b>                             |
| P1203 | 10025 | Fuel Trim Upper<br>Adaptation Range<br>System Too Rich (Bank<br>2) | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 4 OF 9)</u></b>                             |
| P1327 | 10211 | Knock Sensor 2 Circuit<br>Low Input (Bank 1)                       | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 9 OF 9)</u></b>                             |
| P1328 | 10211 | Knock Sensor 2 Circuit<br>High Input (Bank 1)                      | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 9 OF 9)</u></b>                             |
| P1332 | 10213 | Knock Sensor 4 Circuit<br>Low Input                                | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 9 OF 9)</u></b>                             |
| P1333 | 10213 | Knock Sensor 4 Circuit<br>High Input                               | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 9 OF 9)</u></b>                             |
| P1340 | 10062 | Multiple Cylinder<br>Misfire During Start                          | Diagnostic information is not available. Use<br>BMW Diagnostic Information System Plus<br>(DISplus) or Group Tester One (GT-1) to<br>diagnose system. |
| P1341 | 10062 | Multiple Cylinder<br>Misfire With Fuel Cut-<br>Off                 | Diagnostic information is not available. Use<br>BMW Diagnostic Information System Plus<br>(DISplus) or Group Tester One (GT-1) to<br>diagnose system. |
| P1342 | 10050 | Misfire During Start,<br>Cylinder 1                                | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 1 OF 9)</u></b>                             |
| P1343 | 10050 | Misfire Cylinder 1 With<br>Fuel Cut-Off                            | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 1 OF 9)</u></b>                             |
| P1344 | 10057 | Misfire During Start,<br>Cylinder 2                                | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 1 OF 9)</u></b>                             |
| P1345 | 10057 | Misfire Cylinder 2 With                                            | See <b><u>DTC CHART (ENGINE TYPE:</u></b>                                                                                                             |

# 2002 BMW X5 30i

## 2002 DTC INDEX BMW

|       |       | Fuel Cut-Off                                                       | <b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 1 OF 9)</u></b>                                                                          |
|-------|-------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| P1346 | 10055 | Misfire During Start,<br>Cylinder 3                                | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 1 OF 9)</u></b>                             |
| P1347 | 10055 | Misfire Cylinder 3 With<br>Fuel Cut-Off                            | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 1 OF 9)</u></b>                             |
| P1348 | 10052 | Misfire During Start,<br>Cylinder 4                                | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 1 OF 9)</u></b>                             |
| P1349 | 10052 | Misfire Cylinder 4 With<br>Fuel Cut-Off                            | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 1 OF 9)</u></b>                             |
| P1350 | 10051 | Misfire During Start,<br>Cylinder 5                                | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 1 OF 9)</u></b>                             |
| P1351 | 10051 | Misfire Cylinder 5 With<br>Fuel Cut-Off                            | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 1 OF 9)</u></b>                             |
| P1352 | 10054 | Misfire During Start,<br>Cylinder 6                                | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 1 OF 9)</u></b>                             |
| P1353 | 10054 | Misfire Cylinder 6 With<br>Fuel Cut-Off                            | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 1 OF 9)</u></b>                             |
| P1354 | 10056 | Misfire During Start,<br>Cylinder 7                                | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 1 OF 9)</u></b>                             |
| P1355 | 10056 | Misfire Cylinder 7 With<br>Fuel Cut-Off                            | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 1 OF 9)</u></b>                             |
| P1356 | 10053 | Misfire During Start,<br>Cylinder 8                                | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 1 OF 9)</u></b>                             |
| P1357 | 10053 | Misfire Cylinder 8 With<br>Fuel Cut-Off                            | Diagnostic information is not available. Use<br>BMW Diagnostic Information System Plus<br>(DISplus) or Group Tester One (GT-1) to<br>diagnose system. |
| P1378 | 10238 | Control Module Self-<br>Test, Knock Control<br>Offset (Bank 2)     | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 9 OF 9)</u></b>                             |
| P1379 | 10239 | Control Module Self-<br>Test, Knock Control Test<br>Pulse (Bank 2) | See <b><u>DTC CHART (ENGINE TYPE:</u></b><br><b><u>N62B45 LEV/TEST GROUP:</u></b><br><b><u>2BMXV04.4LEV - 9 OF 9)</u></b>                             |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       |                                                                                             |                                                                                                                                              |
|-------|-------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| P1380 | 10217 | Control Module Self-Test, Knock Control Circuit Baseline Test (Bank 2)                      | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 9 OF 9)</u></b>                                                      |
| P1381 | 10215 | Control Module Self-Test, Knock Control Offset (Bank 1)                                     | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P1382 | 10216 | Control Module Self-Test, Knock Control Test Pulse (Bank 1)                                 | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P1386 | 10214 | Control Module Self-Test, Knock Control Circuit Baseline Test (Bank 1)                      | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P1413 | 10084 | Secondary Air Injection Pump Relay Control Circuit, Signal Low                              | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 3 OF 9)</u></b>                                                      |
| P1414 | 10084 | Secondary Air Injection Pump Relay Control Circuit, Signal High                             | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 3 OF 9)</u></b>                                                      |
| P1434 | 10189 | Diagnostic Module Tank Leakage (DM-TL)                                                      | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 3 OF 9)</u></b>                                                      |
| P1444 | 10186 | Diagnostic Module Tank Leakage (DM-TL) Pump Control Open Circuit                            | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 2 OF 9)</u></b>                                                      |
| P1445 | 10186 | Diagnostic Module Tank Leakage (DM-TL) Pump Control Circuit, Signal Low                     | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 2 OF 9)</u></b>                                                      |
| P1446 | 10186 | Diagnostic Module Tank Leakage (DM-TL) Pump Control Circuit, Signal High                    | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 2 OF 9)</u></b>                                                      |
| P1447 | 10189 | Diagnostic Module Tank Leakage (DM-TL) Pump Current Too High During Switching Solenoid Test | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 3 OF 9)</u></b>                                                      |
| P1448 | 10189 | Diagnostic Module Tank Leakage (DM-TL) Pump, Current Too Low                                | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 3 OF 9)</u></b>                                                      |
| P1449 | 10189 | Diagnostic Module Tank                                                                      | See <b><u>DTC CHART (ENGINE TYPE:</u></b>                                                                                                    |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       |                                                                                                                                                       |                                                                                                 |
|-------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
|       |       | Leakage (DM-TL)<br>Pump, Current Too High                                                                                                             | <u><b>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 3 OF 9)</b></u>                                 |
| P1450 | 10002 | Diagnostic Module Tank<br>Leakage (DM-TL)<br>Switching Solenoid<br>Control Open Circuit                                                               | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 2 OF 9)</b></u> |
| P1451 | 10002 | Diagnostic Module Tank<br>Leakage (DM-TL)<br>Switching Solenoid<br>Control Circuit, Signal<br>Low                                                     | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 2 OF 9)</b></u> |
| P1452 | 10002 | Diagnostic Module Tank<br>Leakage (DM-TL)<br>Switching Solenoid<br>Control Circuit, Signal<br>High                                                    | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 2 OF 9)</b></u> |
| P1523 | 10165 | "A" Camshaft Position<br>Actuator Signal Low<br>(Bank 1) (M52: "B"<br>Camshaft Position<br>Actuator Tight or<br>Jammed)                               | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 7 OF 9)</b></u> |
| P1524 | 10165 | "A" Camshaft Position<br>Actuator Control Circuit<br>Signal High (Bank 1)                                                                             | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 7 OF 9)</b></u> |
| P1525 | 10165 | "A" Camshaft Position<br>Actuator Control Open<br>Circuit (Bank 1)                                                                                    | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 7 OF 9)</b></u> |
| P1526 | 10166 | "A" Camshaft Position<br>Actuator Control Open<br>Circuit (Bank 2)                                                                                    | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 7 OF 9)</b></u> |
| P1527 | 10166 | "A" Camshaft Position<br>Actuator Control Circuit<br>Signal Low (Bank 2)                                                                              | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 7 OF 9)</b></u> |
| P1528 | 10166 | "A" Camshaft Position<br>Actuator Control Circuit<br>Signal High (Bank 2)                                                                             | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 7 OF 9)</b></u> |
| P1529 | 10173 | "B" Camshaft Position<br>Actuator Control Circuit<br>Signal Low (Bank 1)                                                                              | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 7 OF 9)</b></u> |
| P1530 | 10173 | "B" Camshaft Position<br>Actuator Control Circuit<br>Signal High (Bank 1)<br>(S54 to 09/00: Throttle<br>Valve Position Control,<br>Control Deviation) | See <u><b>DTC CHART (ENGINE TYPE:<br/>N62B45 LEV/TEST GROUP:<br/>2BMXV04.4LEV - 7 OF 9)</b></u> |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       |                                                                                                             |                                                                                         |
|-------|-------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| P1531 | 10173 | "B" Camshaft Position Actuator Control Open Circuit (Bank 1)                                                | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 9)</u></b> |
| P1532 | 10174 | "B" Camshaft Position Actuator Control Open Circuit (Bank 2) (S54 to 09/00: Throttle Valve Control Circuit) | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 9)</u></b> |
| P1533 | 10174 | "B" Camshaft Position Actuator Control Circuit Signal Low (Bank 2) (S54 to 09/00: ECM Processor)            | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 9)</u></b> |
| P1534 | 10174 | "B" Camshaft Position Actuator Control Circuit Signal High (Bank 2)                                         | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 7 OF 9)</u></b> |
| P1611 | 10220 | Serial Communication Link Transmission Control Module                                                       | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</u></b> |
| P1628 | 10089 | Throttle Valve Actuator Spring Test Malfunction during Opening                                              | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 9)</u></b> |
| P1629 | 10089 | Throttle Valve Actuator Spring Test Stop, Spring does not Open                                              | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 9)</u></b> |
| P1631 | 10133 | Throttle Valve Actuator Spring Test                                                                         | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 9)</u></b> |
| P1634 | 10133 | Throttle Valve Adaptation Spring Test Failed                                                                | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 9)</u></b> |
| P1636 | 10132 | Throttle Valve Control Circuit                                                                              | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 9)</u></b> |
| P1637 | 10130 | Throttle Valve Position Control, Control Deviation                                                          | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 9)</u></b> |
| P1638 | 10131 | Throttle Valve Position Control Throttle Stuck Temporarily                                                  | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 9)</u></b> |
| P1639 | 10131 | Throttle Valve Position Control Throttle Stuck Permanently                                                  | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 6 OF 9)</u></b> |
| P3213 | 10220 | CAN Message Monitoring ETC Alive                                                                            | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP:</u></b>                        |

**2002 BMW X5 30i**

## 2002 DTC INDEX BMW

|       |       | Check                                               | <b><u>2BMXV04.4LEV - 8 OF 9)</u></b>                                                                                                         |
|-------|-------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| P3214 | 10220 | CAN Message Monitoring ETC Plausibility             | See <b><u>DTC CHART (ENGINE TYPE: N62B45 LEV/TEST GROUP: 2BMXV04.4LEV - 8 OF 9)</u></b>                                                      |
| P3240 | 10140 | Map Cooling Thermostat Control Circuit Open Circuit | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P3241 | 10140 | Map Cooling Thermostat Control Circuit Low Input    | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P3242 | 10140 | Map Cooling Thermostat Control Circuit High Input   | Diagnostic information is not available. Use BMW Diagnostic Information System Plus (DISplus) or Group Tester One (GT-1) to diagnose system. |
| P17XX | ..... | .....                                               | These codes apply to electronically controlled transmissions.                                                                                |
| P18XX | ..... | .....                                               | These codes apply to electronically controlled transmissions.                                                                                |