<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Circuit</th>
</tr>
</thead>
<tbody>
<tr>
<td>11 P 187 4</td>
<td>Chain PTO. Short circuit in the power</td>
<td>DDEC V</td>
</tr>
<tr>
<td>11 P 187 7</td>
<td>control system PTO wrong answers</td>
<td></td>
</tr>
<tr>
<td>12 P 187 3</td>
<td>Chain PTO. Short circuit in the ground</td>
<td></td>
</tr>
<tr>
<td>13 P 111 4</td>
<td>4-level circuit antifreeze. Short circuit in the ground</td>
<td></td>
</tr>
<tr>
<td>13 P 111 6</td>
<td>2nd-level circuit antifreeze. Short circuit in the ground</td>
<td></td>
</tr>
<tr>
<td>14 P 52 3</td>
<td>circuit coolant temperature intercooler. Short circuit in the power</td>
<td></td>
</tr>
<tr>
<td>14 P 110 3</td>
<td>circuit temperature antifreeze. Short circuit in the power</td>
<td></td>
</tr>
<tr>
<td>15 P 52 4</td>
<td>circuit coolant temperature intercooler. Short circuit in the ground</td>
<td></td>
</tr>
<tr>
<td>15 P 110 4</td>
<td>circuit temperature antifreeze. Short circuit in the ground</td>
<td></td>
</tr>
<tr>
<td>15 P 175 3</td>
<td>Chain oil temperature. Short circuit in the power</td>
<td></td>
</tr>
<tr>
<td>16 P 111 3</td>
<td>3-level circuit antifreeze. Short circuit in the power</td>
<td></td>
</tr>
<tr>
<td>16 P 111 5</td>
<td>2nd circuit level antifreeze. Short circuit in the power</td>
<td></td>
</tr>
<tr>
<td>17 P 51 3</td>
<td>Throttle position circuit failed high</td>
<td></td>
</tr>
<tr>
<td>17 P 72 3</td>
<td>Bypass position circuit failed high</td>
<td></td>
</tr>
<tr>
<td>17 P 3 354</td>
<td>Relative humidity sensor circuit failed high</td>
<td></td>
</tr>
<tr>
<td>18 P 51 4</td>
<td>Throttle position circuit failed low</td>
<td></td>
</tr>
<tr>
<td>18 P 72 4</td>
<td>Bypass position circuit failed low</td>
<td></td>
</tr>
<tr>
<td>18 P 3 354</td>
<td>Relative humidity sensor circuit failed low</td>
<td></td>
</tr>
<tr>
<td>21 P 91 3</td>
<td>TPS circuit failed high</td>
<td></td>
</tr>
<tr>
<td>22 P 91 4</td>
<td>TPS circuit failed low</td>
<td></td>
</tr>
<tr>
<td>23 S 65 3</td>
<td>Oxygen content circuit failed high</td>
<td></td>
</tr>
<tr>
<td>23 P 174 3</td>
<td>Chain fuel temperature. Short circuit in the power</td>
<td></td>
</tr>
<tr>
<td>24 S 65 4</td>
<td>Oxygen content circuit failed low</td>
<td></td>
</tr>
<tr>
<td>24 P 174 4</td>
<td>Chain fuel temperature. Short circuit in the ground</td>
<td></td>
</tr>
<tr>
<td>25 no codes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>26 S 25 November</td>
<td>Aux. shutdown # 1 active</td>
<td></td>
</tr>
<tr>
<td>26 S 61 11</td>
<td>Aux. shutdown # 2 active (Incorrect SID. subject to change)</td>
<td></td>
</tr>
<tr>
<td>27 p 105 3</td>
<td>Circuit temperature in the reservoir. Short circuit in the power</td>
<td></td>
</tr>
<tr>
<td>27 p 171 3</td>
<td>Ambient air temp circuit failed high</td>
<td></td>
</tr>
<tr>
<td>27 p 172 3</td>
<td>Air temp, circuit failed high</td>
<td></td>
</tr>
<tr>
<td>28 p 105 to 4</td>
<td>Chain manifold temperature. Short circuit in the ground</td>
<td></td>
</tr>
<tr>
<td>28 p 171 4</td>
<td>Ambient air temp circuit failed low</td>
<td></td>
</tr>
<tr>
<td>28 p 172 4</td>
<td>Air temp, circuit failed low</td>
<td></td>
</tr>
<tr>
<td>29 p 404 4</td>
<td>TCO temperature circuit failed low</td>
<td></td>
</tr>
<tr>
<td>29 p 351 4</td>
<td>TCI Temperature circuit failed low</td>
<td></td>
</tr>
<tr>
<td>31 S 51 3</td>
<td>Aux. Output # 3 open circuit (high side) S3</td>
<td></td>
</tr>
<tr>
<td>31 S 51 4</td>
<td>Aux. Output # 3 short to ground (high side) S3</td>
<td></td>
</tr>
<tr>
<td>31 S 51 7</td>
<td>Aux. Output # 3 mech. system fail S3</td>
<td></td>
</tr>
<tr>
<td>31 s 52 3</td>
<td>Aux. Output # 4 open circuit (high side) T3</td>
<td></td>
</tr>
<tr>
<td>31 s 52 4</td>
<td>Aux. Output # 4 short to ground (high side) T3</td>
<td></td>
</tr>
<tr>
<td>31 s 52 7</td>
<td>Aux. Output # 4 mech. system fail T3</td>
<td></td>
</tr>
<tr>
<td>32 S 238 3</td>
<td>SEL short to battery B1</td>
<td></td>
</tr>
<tr>
<td>32 S 238 4</td>
<td>SEL open circuit B1</td>
<td></td>
</tr>
<tr>
<td>32 s 239 3</td>
<td>CEL short to battery B2</td>
<td></td>
</tr>
<tr>
<td>32 s 239 4</td>
<td>CEL open circuit B2</td>
<td></td>
</tr>
<tr>
<td>33 p 102 3</td>
<td>Boost pressure circuit failed high</td>
<td></td>
</tr>
<tr>
<td>34 p 102 4</td>
<td>Boost pressure circuit failed low</td>
<td></td>
</tr>
<tr>
<td>35 p 19 March</td>
<td>Ext range oil pressure circuit failed high</td>
<td></td>
</tr>
<tr>
<td>35 p 100 3</td>
<td>Chain oil pressure. Short circuit in the power</td>
<td></td>
</tr>
<tr>
<td>36 P 19 April</td>
<td>Ext range oil pressure circuit failed low</td>
<td></td>
</tr>
</tbody>
</table>

https://truck-manuals.jimdo.com/detroit-diesel-fault-codes/
36 P 100 4 Chain oil pressure. Short circuit in the ground
37 P 18 March Ext range fuel pressure circuit failed high
37 P 94 3 Chain fuel pressure. Short circuit in the power
37 P 95 3 Fuel Filter Restriction circuit failed high
38 P 18 April Ext range fuel pressure circuit failed low
38 P 94 4 Chain fuel pressure. Short circuit in the ground
38 P 95 4 Fuel Filter Restriction circuit failed low
39 S 146 2 Mechanical error EGR valve
39 S 146 12 Mechanical error EGR valve
39 S 146 10 return valve 7 does not meet the exhaust
39 S 147 2 turbocharger control mechanism does not respond
39 s 147 12 turbocharger control mechanism does not respond
39 s 147 14 current returns exhaust gases enough
39 S 147 11 turbocharger control mechanism does not respond
39 S 147 7 turbocharger control mechanism does not respond
41 S 21 0 Too many SRS (missing TRS)
42 S 21 January Too few SRS (missing SRS)
43 p 111 1 Low coolant level
44 p 52 0 Intercooler coolant temp, high
44 p 105 0 temperature in the reservoir above the norm
44 p 110 0 antifreeze temperature above normal
44 p 172 0 Air inlet temp, high
44 p 175 0 Oil temperature above normal
45 p 19 January Ext range oil pressure low
45 p 100 1 Oil pressure below normal
46 p 168 1 Low voltage batteries
46 S 214 1 RTC Backup Battery Voltage Low
46 S 232 1 Sensor Supply Voltage Low A3 & W1
P 0 47 18 Ext range fuel pressure high
P 47 94 0 The fuel pressure above normal
47 p 0 102 Turbo boost press high
47 p 106 0 Air inlet pressure high or TCBV diff press high
47 p 164 0 Injection control pressure high
48 p 18 January Ext range fuel pressure low
48 p 94 1 fuel pressure below normal
48 p 106 1 Air inlet pressure low
48 p 164 1 Injection control pressure low
48 p 351 1 TCI Temperature below range
48 p 404 1 TCO Temperature below range
48 p 411 1 EGR Delta pressure low
48 p 412 1 EGR Temperature low
49 p 351 0 TCI Temperature above range
49 p 404 0 TCO Temperature above range
51 p 351 3 TCI Temperature circuit failed high
51 p 404 3 TCO Temperature circuit failed high
52 s 12 254 A / D Conversion fail
S 253 53 12 EE PROM write error
53 S 253 13 Out of Calibration
53 S 253 2 Nonvolatile checksum incorrect
P 54 84 12 Vehicle speed sensor fault
55 S 216 14 Missing other ECU information (should not occur without another fault which indicates the data missing from other ECU)
55 S 231 12 939 A data link fault
S 248 55 8 Proprietary link fault (master)
55 S 248 9 Proprietary link fault (slave)
56 S 250 12 587 A data link fault
57 S 249 12 922 A data link fault
58 p 92 0 Torque overload
61 s 1 0 Injector # 1 responds too slowly
61 s 2 0 Injector # 2 responds too slowly
61 s 3 0 Injector # 3 responds too slowly
61 s 4 0 Injector # 4 answers too slowly
61 S 5 0 Injector # 5 answers too slowly
61 S 6 0 Injector # 6 answers too slowly
62 S 26 March Aux. Output # 1 short to battery F3
62 S 26 April Aux. Output # 1 open circuit F3
62 S 26 July Aux. Output # 1 mech. system fail F3
62 S 40 3 Aux. Output # 2 short to battery A2
62 S 40 4 Aux. Output # 2 open circuit A2
62 S 40 7 Aux. Output # 2 mech. system fail A2
62 S 53 3 Aux. Output # 5 short to battery W3
62 S 53 4 Aux. Output # 5 open circuit W3
62 S 53 7 Aux. Output # 5 mech. system fail W3
62 S 54 3 Aux. Output # 6 short to battery X3
62 S 54 4 Aux. Output # 6 open circuit X3
62 S 54 7 Aux. Output # 6 mech. system fail X3
62 S 55 3 Aux. Output # 7 short to battery Y3
62 S 55 4 Aux. Output # 7 open circuit Y3
62 S 55 7 Aux. Output # 7 mech. system fail Y3
62 S 56 3 Aux. Output # 8 short to battery A1
62 S 56 4 Aux. Output # 8 open circuit A1
62 S 56 7 Aux. Output # 8 mech. system fail A1
63 S 57 0 PWM # 1 above normal range J3
63 S 57 1 PWM # 1 below normal range J3
63 S 57 3 PWM # 1 short to battery J3
63 S 57 4 PWM # 1 open circuit J3
63 S 58 0 PWM # 2 above normal range Y1
63 S 58 1 PWM # 2 below normal range Y1
63 S 58 3 PWM # 2 short to battery Y1
63 S 58 4 PWM # 2 open circuit Y1
63 S 59 0 PWM # 3 above normal range W2
63 S 59 1 PWM # 3 below normal range W2
63 S 59 3 PWM # 3 short to battery W2
63 S 59 4 PWM # 3 open circuit W2
63 S 60 0 PWM # 4 above normal range X2
63 S 60 1 PWM # 4 below normal range X2
63 S 60 3 PWM # 4 short to battery X2
63 S 60 4 PWM # 4 open circuit X2
64 p 0 103 Turbo Overspeed
64 p 103 Turbo speed circuit failed
65 p 51 0 Throttle position above range
65 p 51 1 Throttle position below range
65 p 51 2 Throttle position erratic
65 p 51 7 Throttle not responding
65 p 107 3 Air filter restriction circuit failed high
65 p 107 4 Air filter restriction circuit failed low
66 S 76 0 Knock control above range
66 S 76 3 Knock control circuit shorted high
66 S 76 4 Knock control circuit shorted low
66 S 76 7 No response to knock control
66 p 99 3 Oil filter restriction circuit failed high
66 p 99 4 Oil filter restriction circuit failed low
67 p 20 March Ext range coolant pressure circuit failed high
67 p 20 April Ext range coolant pressure circuit failed low
67 p 106 3 Air inlet pressure circuit failed high
67 p 106 4 Air inlet pressure circuit failed low
67 p 109 3 Coolant pressure circuit failed high
67 p 109 4 Coolant pressure circuit failed low
68 S 230 5 IVS circuit fault, open circuit
68 S 230 6 IVS circuit fault, grounded circuit
71 S 1 January Injector # 1 responds too quickly
71 S 1 February Injector # 2 responds too quickly
71 S March 1 Injector # 3 answers too quickly
71 S 1 April Injector # 4 answers too quickly
71 S 1 May 1 Injector # 5 answers too quickly
71 S 1 June Injector # 6 answers too quickly
72 S 65 0 Oxygen content too high
72 S 65 1 Oxygen content too low
72 p 84 0 Vehicle overspeed
72 p 84 11 Vehicle overspeed (absolute)
73 S 77 0 Gas metering valve data above range
73 S 77 1 Gas metering valve data below range
73 s 77 3 Gas metering valve circuit shorted high
73 s 77 4 Gas metering valve circuit shorted low
73 S 77 7 Gas metering valve not responding
73 p 107 0 Air filter restriction high
73 S 151 14 ESS fault - Stuck in gear detected
73 S 226 11 Transmission neutral switch fault not identifiable
73 S 227 2 ESS fault - aux. analog input # 1 data incorrect
73 S 227 3 ESS fault - aux. analog input # 1 voltage above normal
73 S 227 4 ESS fault - aux. anlg input # 1 voltage shorted low
74 p 70 4 Safety loop shorted to gnd
74 p 74 99 Oil filter restriction high
75 p 168 0 Battery voltage high
75 S 214 0 RTC Backup Battery Voltage High
75 S 232 0 Sensor Supply Voltage High A3 & W1
76 p 0 121 Engine Overspeed with Engine Brake
77 p 19 0 Extended range oil pressure above range
77 p 20 0 Extended range coolant pressure above range
77 p 72 0 Bypass blower door position above range
77 p 72 1 Bypass blower door position below range
11 p 73 1 Fire pump pressure below range
11 P 81 0 Exhaust backpressure above range
January 1 p 1 81 Exhaust backpressure below range
January 1 p 81 12 Exhaust backpressure at rampdown threshold
11 p 81 3 Exhaust backpressure failed high
11 p 81 4 Exhaust backpressure failed low
11 p 95 1 Fuel filter differential pressure below range
11 p 99 1 Oil filter differential pressure below range
11 p 0 100 Engine oil pressure above range
11 p 102 1 Turbo boost pressure below range
11 p 105 1 Inlet manifold temperature below range
11 p 107 1 Air filter differential pressure below range
11 p 354 0 Relative humidity above range
11 p 354 1 Relative humidity below range
11 p 108 0 Barometric pressure above range
11 108 1 p Barometric pressure below range
11 p 109 0 Coolant pressure above range
11 p 110 1 Coolant temperature below range
11 p 111 0 Coolant level above range
171 171 0 p Ambient air temperature above range
171 p 171 1 Ambient air temperature below range
11 p 172 1 Air inlet temperature below range
11 p 174 0 Fuel temperature above range
P 11 174 1 Fuel temperature below range + E274
11 p 175 1 Engine oil temperature below range
11 p 177 0 Transmission oil temperature above range
11 p 177 1 Transmission oil temperature below range
11 p 177 3 Transmission oil temperature failed high
11 p 177 4 Transmission oil temperature failed low
11 p 222 14 Anti theft fault present
January 1 p 251 10 Clock module abnormal rate of change
January 1 p 251 13 Clock module failure
11 p 252 10 Clock module abnormal rate of change
11 p 252 13 Clock module failure
11 p 446 0 Cylinder head temperature above range
P 78 86 14 Cruise Control / Adaptive Cruise Control
81 p 98 3 Oil level circuit failed high
81 p 101 3 Crankcase press, circuit failed high
81 p 153 3 High res crankcase press. Circuit failed high
81 p 164 3 Injection cntl press circuit failed high
81 p 173 3 Exhaust gas temperature circuit failed high
81 S 277 9 EGR mass flow smart sensor not responding
81 S 277 12 EGR mass flow smart sensor failed
81 p 411 3 EGR Delta pressure circuit failed high
81 p 412 3 EGR Temperature circuit failed high
82 S 412 9 EGR temperature smart sensor not responding
82 S 412 12 EGR temperature smart sensor failed
82 p 98 4 Oil level circuit failed low
82 p 101 4 Crankcase press, circuit failed low
82 p 153 4 High res crankcase press. circuit failed low
82 p 164 4 Injection cntl press circuit failed low
82 p 173 4 Exhaust gas temperature circuit failed low
82 p 411 4 EGR Delta pressure circuit failed low
82 p 412 4 EGR Temperature circuit failed low
83 p 73 0 Aux. pump pressure above range
83 p 98 0 Oil level high
83 p 101 0 Crankcase pressure high
83 p 0 153 High res crankcase Pressure high
83 p 0 173 Exhaust gas temperature high
83 p 411 0 EGR Delta pressure high
83 p 412 0 EGR Temperature high
84 p 98 1 Oil level low
84 p 101 1 Crankcase pressure low
84 p 153 1 High Res Crankcase Pressure low
P 85 190 0 Engine overspeed
85 p 190 14 Engine Overspeed Signal
86 p 73 3 Aux. pump pressure circuit failed high
86 p 108 3 Baro. pressure circuit failed high
87 p 73 4 Aux. pump pressure circuit failed low
87 p 108 4 Baro. pressure circuit failed low
88 p 20 January Ext range coolant pressure low
88 p 109 1 Coolant pressure low
89 p 95 0 Fuel Filter Restriction high
89 p 111 12 Maintenance monitor Coolant level fault
S 240 2 FRAM checksum incorrect
S 240 13 FRAM out of calibration