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1. INTRODUCTION

MEMOScanner is newly developed by UIF TECH, specially designed for car owners or DIYs. With an **MEMOScanner**, you may quickly find out trouble causes of electronically controlled systems on your car by reading the trouble code (DTC) shown on **MEMOScanner**, and checking out trouble causes with attached *MANUAL*.

Though so small, it is of the same function as special tool of its kind and applicable to all models since 1996 with a 16-pin diagnostic socket for generic OBDII protocols (SAE J1850 PWM, SAE J1850 VPW, ISO 9 141-2).

Notice: MEMOScanner may automatically reset while being disturbed by strong static electricity. It is normal.

2. FUNCTIONS

- ① Reading trouble codes: Read DTCs of powertrain system.
- ② Clearing trouble codes: After all DTCs of the powertrain system being displayed for 3 times, the **MemoScanner** will clear the DTCs automatically.

3. OPERATION

- ① When the "CHECK ENGINE" light is on, stop the car and apply the parking brake, start the engine then plug the **MemoScanner** to the 16-pin socket usually located under the instrument panel in the car.
- ② It will display [UIFTCH] first, followed by trouble codes one by one if any (Or Display [UIF] first, then press the "Read" button). This process will repeat 4 times. If there is no trouble codes, it will display [-- -- -- --].
- ③ Trouble codes will be cleared automatically after trouble code display have repeated for 4 times, or they will remain in ECU if Memo Scanner is put out before 4 times display. (Or trouble codes will be cleared when press the "Erase" during displaying the trouble codes, if successfully, it will display "CLR", then display "UIF".)
- ④ In case that **MemoScanner** can not be plugged in directly or codes can not be seen due to socket facing downward, use the extension cable with the female plug to connect with **MemoScanner** and 16pin plug with socket.

4. SIZE: 6cm × 3cm × 2cm (New Model: 7cm × 4cm × 2cm; Extension cable: 70cm)

5. DTC DEFINITIONS

Please see table A for SAE OBDII DTC definitions, and table B for

Table A: SAE OBDII DTC Definitions

0100	Mass or Volume Air Flow Circuit Malfunction
0101	Mass or Volume Air Flow Circuit Range or Performance Problem
0102	Mass or Volume Air Flow Circuit Low Input
0103	Mass or Volume Air Flow Circuit High Input
0104	Mass or Volume Air Flow Circuit Intermittent
0105	Manifold Absolute Pressure/Barometric Pressure Circuit Malfunction
0106	Manifold Absolute Pressure/Barometric Pressure Circuit Range/Performance Problem
0107	Manifold Absolute Pressure/Barometric Pressure Circuit Low Input
0108	Manifold Absolute Pressure/Barometric Pressure Circuit High Input
0109	Manifold Absolute Pressure/Barometric Pressure Circuit Intermittent
0110	Intake Air Temperature Circuit Malfunction
0111	Intake Air Temperature Circuit Range or Performance Problem
0112	Intake Air Temperature Circuit Low Input
0113	Intake Air Temperature Circuit High Input
0114	Intake Air Temperature Circuit Intermittent
0115	Engine Coolant Temperature Circuit Malfunction
0116	Engine Coolant Temperature Circuit Range/Performance Problem
0117	Engine Coolant Temperature Circuit Low Input
0118	Engine Coolant Temperature Circuit High Input
0119	Engine Coolant Temperature Circuit Intermittent
0120	Throttle Position Sensor/Switch A Circuit Malfunction
0121	Throttle Position Sensor/Switch A Circuit Range/Performance Problem
0122	Throttle Position Sensor/Switch A Circuit Low Input
0123	Throttle Position Sensor/Switch A Circuit High Input
0124	Throttle Position Sensor/Switch A Circuit Intermittent
0125	Insufficient Coolant Temperature for Closed Loop Fuel Control
0126	Insufficient Coolant Temperature for Stable Operation
0130	O2 Sensor Circuit Malfunction (Bank 1 Sensor 1)
0131	O2 Sensor Circuit Low Voltage (Bank 1 Sensor 1)
0132	O2 Sensor Circuit High Voltage (Bank 1 Sensor 1)
0133	O2 Sensor Circuit Slow Response (Bank 1 Sensor 1)
0134	O2 Sensor Circuit No Activity Detected (Bank 1 Sensor 1)
0135	O2 Sensor Heater Circuit Malfunction (Bank 1 Sensor 1)

0136	O2 Sensor Circuit Malfunction (Bank 1 Sensor 2)
0137	O2 Sensor Circuit Low Voltage (Bank 1 Sensor 2)
0138	O2 Sensor Circuit High Voltage (Bank 1 Sensor 2)
0139	O2 Sensor Circuit Slow Response (Bank 1 Sensor 2)
0140	O2 Sensor Circuit No Activity Detected (Bank 1 Sensor 2)
0141	O2 Sensor Heater Circuit Malfunction (Bank 1 Sensor 2)
0142	O2 Sensor Circuit Malfunction (Bank 1 Sensor 3)
0143	O2 Sensor Circuit Low Voltage (Bank 1 Sensor 3)
0144	O2 Sensor Circuit High Voltage (Bank 1 Sensor 3)
0145	O2 Sensor Circuit Slow Response (Bank 1 Sensor 3)
0146	O2 Sensor Circuit No Activity Detected (Bank 1 Sensor 3)
0147	O2 Sensor Heater Circuit Malfunction (Bank 1 Sensor 3)
0150	O2 Sensor Circuit Malfunction (Bank 2 Sensor 1)
0151	O2 Sensor Circuit Low Voltage (Bank 2 Sensor 1)
0152	O2 Sensor Circuit High Voltage (Bank 2 Sensor 1)
0153	O2 Sensor Circuit Slow Response (Bank 2 Sensor 1)
0154	O2 Sensor Circuit No Activity Detected (Bank 2 Sensor 1)
0155	O2 Sensor Heater Circuit Malfunction (Bank 2 Sensor 1)
0156	O2 Sensor Circuit Malfunction (Bank 2 Sensor 2)
0157	O2 Sensor Circuit Low Voltage (Bank 2 Sensor 2)
0158	O2 Sensor Circuit High Voltage (Bank 2 Sensor 2)
0159	O2 Sensor Circuit Slow Response (Bank 2 Sensor 2)
0160	O2 Sensor Circuit No Activity Detected (Bank 2 Sensor 2)
0161	O2 Sensor Heater Circuit Malfunction (Bank 2 Sensor 2)
0162	O2 Sensor Circuit Malfunction (Bank 2 Sensor 3)
0163	O2 Sensor Circuit Low Voltage (Bank 2 Sensor 3)
0164	O2 Sensor Circuit High Voltage (Bank 2 Sensor 3)
0165	O2 Sensor Circuit Slow Response (Bank 2 Sensor 3)
0166	O2 Sensor Circuit No Activity Detected (Bank 2 Sensor 3)
0167	O2 Sensor Heater Circuit Malfunction (Bank 2 Sensor 3)
0170	Fuel Trim Malfunction (Bank 1)
0171	System too Lean (Bank 1)
0172	System too Rich (Bank 1)
0173	Fuel Trim Malfunction (Bank 2)
0174	System too Lean (Bank 2)
0175	System too Rich (Bank 2)
0176	Fuel Composition Sensor Circuit Malfunction
0177	Fuel Composition Sensor Circuit Range/Performance

0178	Fuel Composition Sensor Circuit Low Input
0179	Fuel Composition Sensor Circuit High Input
0180	Fuel Temperature Sensor A Circuit Malfunction
0181	Fuel Temperature Sensor A Circuit Range/Performance
0182	Fuel Temperature Sensor A Circuit Low Input
0183	Fuel Temperature Sensor A Circuit High Input
0184	Fuel Temperature Sensor A Circuit Intermittent
0185	Fuel Temperature Sensor B Circuit Malfunction
0186	Fuel Temperature Sensor B Circuit Range/Performance
0187	Fuel Temperature Sensor B Circuit Low Input
0188	Fuel Temperature Sensor B Circuit High Input
0189	Fuel Temperature Sensor B Circuit Intermittent
0190	Fuel Rail Pressure Sensor Circuit Malfunction
0191	Fuel Rail Pressure Sensor Circuit Range/Performance
0192	Fuel Rail Pressure Sensor Circuit Low Input
0193	Fuel Rail Pressure Sensor Circuit High Input
0194	Fuel Rail Pressure Sensor Circuit Intermittent
0195	Engine Oil Temperature Sensor Malfunction
0196	Engine Oil Temperature Sensor Range/Performance
0197	Engine Oil Temperature Sensor Low
0198	Engine Oil Temperature Sensor High
0199	Engine Oil Temperature Sensor Intermittent
0200	Injector Circuit Malfunction
0201	Injector Circuit Malfunction – Cyl. 1
0203	Injector Circuit Malfunction – Cyl. 2
0203	Injector Circuit Malfunction – Cyl. 3
0204	Injector Circuit Malfunction – Cyl. 4
0205	Injector Circuit Malfunction – Cyl. 5
0206	Injector Circuit Malfunction – Cyl. 6
0207	Injector Circuit Malfunction – Cyl. 7
0208	Injector Circuit Malfunction – Cyl. 8
0209	Injector Circuit Malfunction – Cyl. 9
0210	Injector Circuit Malfunction – Cyl. 10
0211	Injector Circuit Malfunction – Cyl. 11
0212	Injector Circuit Malfunction – Cyl. 12
0213	Cold Start Injector 1 Malfunction
0214	Cold Start Injector 2 Malfunction
0215	Engine Shutoff Solenoid Malfunction

0216	Injection Timing Control Circuit Malfunction
0217	Engine Over temperature Condition
0218	Transmission Over Temperature Condition
0219	Engine Over speed Condition
0220	Throttle/Petal Position Sensor or Switch B Circuit Malfunction
0221	Throttle/Petal Position Sensor or Switch B Circuit Range/Performance Problem
0222	Throttle/Petal Position Sensor or Switch B Circuit Low Input
0223	Throttle/Petal Position Sensor/Switch B Circuit High Input
0224	Throttle/Petal Position Sensor/Switch B Circuit Intermittent
0225	Throttle/Petal Position Sensor/Switch C Circuit Malfunction
0226	Throttle/Petal Position Sensor/Switch C Circuit Range/Performance Problem
0227	Throttle/Petal Position Sensor/Switch C Circuit Low Input
0228	Throttle/Petal Position Sensor/Switch C Circuit High Input
0229	Throttle/Petal Position Sensor/Switch C Circuit Intermittent
0230	Fuel Pump Primary Circuit Malfunction
0231	Fuel Pump Secondary Circuit Low
0232	Fuel Pump Secondary Circuit High
0233	Fuel Pump Secondary Circuit Intermittent
0234	Engine Over boost Condition
0235	Turbocharger Boost Sensor A Circuit Malfunction
0236	Turbocharger Boost Sensor A Circuit Range/Performance
0237	Turbocharger Boost Sensor A Circuit Low
0238	Turbocharger Boost Sensor A Circuit High
0239	Turbocharger Boost Sensor B Malfunction
0240	Turbocharger Boost Sensor B Circuit Range/Performance
0241	Turbocharger Boost Sensor B Circuit Low
0242	Turbocharger Boost Sensor B Circuit High
0243	Turbocharger Waste gate Solenoid A Malfunction
0244	Turbocharger Waste gate Solenoid A
0245	Turbocharger Waste gate Solenoid A Low
0246	Turbocharger Waste gate Solenoid A High
0247	Turbocharger Waste gate Solenoid B Malfunction
0248	Turbocharger Waste gate Solenoid B Range/Performance
0249	Turbocharger Waste gate Solenoid B Low
0250	Turbocharger Waste gate Solenoid B High
0251	Injection Pump Fuel Metering Control "A" Malfunction (Cam/Rotor/Injector)
0252	Injection Pump Fuel Metering Control "A" Range/Performance

	(Cam/Rotor/Injector)
0253	Injection Pump Fuel Metering Control "A" Low (Cam/Rotor/Injector)
0254	Injection Pump Fuel Metering Control "A" High (Cam/Rotor/Injector)
0255	Injection Pump Fuel Metering Control "A" Intermittent (Cam/Rotor/Injector)
0256	Injection Pump Fuel Metering Control "B" Malfunction (Cam/Rotor/Injector)
0257	Injection Pump Fuel Metering Control "B" Range or Performance (Cam/Rotor/Injector)
0258	Injection Pump Fuel Metering Control "B" Low (Cam/Rotor/Injector)
0259	Injection Pump Fuel Metering Control "B" High (Cam/Rotor/Injector) Range/Performance
0260	Injection Pump Fuel Metering Control "B" Intermittent (Cam/Rotor/Injector)
0261	Cylinder 1 Injector Circuit Low
0262	Cylinder 1 Injector Circuit High
0263	Cylinder 1 Contribution/Balance Fault
0264	Cylinder 2 Injector Circuit Low
0265	Cylinder 2 Injector Circuit High
0266	Cylinder 2 Contribution/Balance Fault
0267	Cylinder 3 Injector Circuit Low
0268	Cylinder 3 Injector Circuit High
0269	Cylinder 3 Contribution/Balance Fault
0270	Cylinder 4 Injector Circuit Low
0271	Cylinder 4 Injector Circuit High
0272	Cylinder 4 Contribution/Balance Fault
0273	Cylinder 5 Injector Circuit Low
0274	Cylinder 5 Injector Circuit High
0275	Cylinder 5 Contribution/Balance Fault
0276	Cylinder 6 Injector Circuit Low
0277	Cylinder 6 Injector Circuit High
0278	Cylinder 6 Contribution/Balance Fault
0279	Cylinder 7 Injector Circuit Low
0280	Cylinder 7 Injector Circuit High
0281	Cylinder 7 Contribution/Balance Fault
0282	Cylinder 8 Injector Circuit Low
0283	Cylinder 8 Injector Circuit High
0284	Cylinder 8 Contribution/Balance Fault
0285	Cylinder 9 Injector Circuit Low
0286	Cylinder 9 Injector Circuit High
0287	Cylinder 9 Contribution/Balance Fault
0288	Cylinder 10 Injector Circuit Low

0289	Cylinder 10 Injector Circuit High
0290	Cylinder 10 Contribution or Balance Fault
0291	Cylinder 11 Injector Circuit Low
0292	Cylinder 11 Injector Circuit High
0293	Cylinder 11 Contribution/Balance Fault
0294	Cylinder 12 Injector Circuit Low
0295	Cylinder 12 Injector Circuit High
0296	Cylinder 12 Contribution/Range Fault
0300	Random/Multiple Cylinder Misfire Detected
0301	Cylinder 1 Misfire Detected
0302	Cylinder 2 Misfire Detected
0303	Cylinder 3 Misfire Detected
0304	Cylinder 4 Misfire Detected
0305	Cylinder 5 Misfire Detected
0306	Cylinder 6 Misfire Detected
0307	Cylinder 7 Misfire Detected
0308	Cylinder 8 Misfire Detected
0309	Cylinder 9 Misfire Detected
0311	Cylinder 11 Misfire Detected
0312	Cylinder 12 Misfire Detected
0320	Ignition/Distributor Engine Speed Input Circuit Malfunction
0321	Ignition/Distributor Engine Speed Input Circuit Range/Performance
0322	Ignition/Distributor Engine Speed Input Circuit No Signal
0323	Ignition/Distributor Engine Speed Input Circuit Intermittent
0325	Knock Sensor 1 Circuit Malfunction (Bank 1 or Single Sensor)
0326	Knock Sensor 1 Circuit Range/Performance (Bank 1 or Single Sensor)
0327	Knock Sensor 1 Circuit Low Input (Bank 1 or Single Sensor)
0328	Knock Sensor 1 Circuit High Input (Bank 1 or Single Sensor)
0329	Knock Sensor 1 Circuit Intermittent (Bank 1 or Single Sensor)
0330	Knock Sensor 2 Circuit Malfunction (Bank 2)
0331	Knock Sensor 2 Circuit Range/Performance (Bank 2)
0332	Knock Sensor 2 Circuit Low Input (Bank 2)
0333	Knock Sensor 2 Circuit High Input (Bank 2)
0334	Knock Sensor 2 Circuit Intermittent(Bank 2)
0335	Crankshaft Position Sensor A Circuit Malfunction
0336	Crankshaft Position Sensor A Circuit Range/Performance
0337	Crankshaft Position Sensor A Circuit Low Input
0338	Crankshaft Position Sensor A Circuit High Input

0339	Crankshaft Position Sensor A Circuit Intermittent
0340	Camshaft Position Sensor Circuit Malfunction
0341	Camshaft Position Sensor Circuit Range/Performance
0342	Camshaft Position Sensor Circuit Low Input
0343	Camshaft Position Sensor Circuit High Input
0344	Camshaft Position Sensor Circuit Intermittent
0350	Ignition Coil Primary/Secondary Circuit Malfunction
0351	Ignition Coil A Primary/Secondary Circuit Malfunction
0352	Ignition Coil B Primary/Secondary Circuit Malfunction
0353	Ignition Coil C Primary/Secondary Circuit Malfunction
0354	Ignition Coil D Primary/Secondary Circuit Malfunction
0355	Ignition Coil E Primary/Secondary Circuit Malfunction
0356	Ignition Coil F Primary/Secondary Circuit Malfunction
0357	Ignition Coil G Primary/Secondary Circuit Malfunction
0358	Ignition Coil H Primary/Secondary Circuit Malfunction
0359	Ignition Coil I Primary/Secondary Circuit Malfunction
0360	Ignition Coil J Primary/Secondary Circuit Malfunction
0361	Ignition Coil K Primary/Secondary Circuit Malfunction
0362	Ignition Coil L Primary/Secondary Circuit Malfunction
0370	Timing Reference High Resolution Signal A Malfunction
0371	Timing Reference High Resolution Signal A Too Many Pulses
0372	Timing Reference High Resolution Signal A Too Few Pulses
0373	Timing Reference High Resolution Signal A Intermittent/Erratic Pulses
0374	Timing Reference High Resolution Signal A No Pulses
0375	Timing Reference High Resolution Signal B Malfunction
0376	Timing Reference High Resolution Signal B Too Many Pulses
0377	Timing Reference High Resolution Signal B Too Few Pulses
0378	Timing Reference High Resolution Signal B Intermittent/Erratic Pulses
0379	Timing Reference High Resolution Signal B No Pulses
0380	Glow Plug/Heater Circuit "A" Malfunction
0381	Glow Plug/Heater Indicator Circuit Malfunction
0382	Exhaust Gas Recirculation Flow Malfunction
0385	Crankshaft Position Sensor B Circuit Malfunction
0386	Crankshaft Position Sensor B Circuit Range/Performance
0387	Crankshaft Position Sensor B Circuit Low Input
0388	Crankshaft Position Sensor B Circuit High Input
0389	Crankshaft Position Sensor B Circuit Intermittent
0400	Exhaust Gas Recirculation Flow Malfunction

0401	Exhaust Gas Recirculation Flow Insufficient Detected
0402	Exhaust Gas Recirculation Flow Excessive Detected
0403	Exhaust Gas Recirculation Circuit Malfunction
0404	Exhaust Gas Recirculation Circuit Range/Performance
0405	Exhaust Gas Recirculation Sensor A Circuit Low
0406	Exhaust Gas Recirculation Sensor A Circuit High
0407	Exhaust Gas Recirculation Sensor B Circuit Low
0408	Exhaust Gas Recirculation Sensor B Circuit High
0410	Secondary Air Injection System Malfunction
0411	Secondary Air Injection System Incorrect Flow Detected
0412	Secondary Air Injection System Switching Valve A Circuit Malfunction
0413	Secondary Air Injection System Switching Valve A Circuit Open
0414	Secondary Air Injection System Switching Valve A Circuit Shorted
0415	Secondary Air Injection System Switching Valve B Circuit Malfunction
0416	Secondary Air Injection System Switching Valve B Circuit Open
0417	Secondary Air Injection System Switching Valve B Circuit Shorted
0418	Secondary Air Injection System Relay "A" Circuit Malfunction
0419	Secondary Air Injection System Relay "B" Circuit Malfunction
0420	Catalyst System Efficiency Below Threshold (Bank 1)
0421	Warm Up Catalyst Efficiency Below Threshold (Bank 1)
0422	Main Catalyst Efficiency Below Threshold (Bank 1)
0423	Heated Catalyst Efficiency Below Threshold (Bank 1)
0424	Heated Catalyst Temperature Below Threshold (Bank 1)
0430	Catalyst System Efficiency Below Threshold (Bank 2)
0431	Warm Up Catalyst Efficiency Below Threshold (Bank 2)
0432	Main Catalyst Efficiency Below Threshold (Bank 2)
0433	Heated Catalyst Efficiency Below Threshold (Bank 2)
0434	Heated Catalyst Temperature Below Threshold (Bank 2)
0440	Evaporative Emission Control System Malfunction
0441	Evaporative Emission Control System Incorrect Purge Flow
0442	Evaporative Emission Control System Leak Detected (small leak)
0443	Evaporative Emission Control System Purge Control Valve Circuit Malfunction
0444	Evaporative Emission Control System Purge Control Valve Circuit Open
0445	Evaporative Emission Control System Purge Control Valve Circuit Shorted
0446	Evaporative Emission Control System Vent Control Circuit Malfunction
0447	Evaporative Emission Control System Vent Control Circuit Open
0448	Evaporative Emission Control System Vent Control Circuit Shorted

0449	Evaporative Emission Control System Vent Valve/Solenoid Circuit Malfunction
0450	Evaporative Emission Control System Pressure Sensor Malfunction
0451	Evaporative Emission Control System Pressure Sensor Range/Performance
0452	Evaporative Emission Control System Pressure Sensor Low Input
0453	Evaporative Emission Control System Pressure Sensor High Input
0454	Evaporative Emission Control System Pressure Sensor Intermittent
0455	Evaporative Emission Control System Leak Detected (gross leak)
0460	Fuel Level Sensor Circuit Malfunction
0461	Fuel Level Sensor Circuit Range/Performance
0462	Fuel Level Sensor Circuit Low Input
0463	Fuel Level Sensor Circuit High Input
0464	Fuel Level Sensor Circuit Intermittent
0465	Purge Flow Sensor Circuit Malfunction
0466	Purge Flow Sensor Circuit Range/Performance
0467	Purge Flow Sensor Circuit Low Input
0468	Purge Flow Sensor Circuit High Input
0469	Purge Flow Sensor Circuit Intermittent
0470	Exhaust Pressure Sensor Malfunction
0471	Exhaust Pressure Sensor Range/Performance
0472	Exhaust Pressure Sensor Low
0473	Exhaust Pressure Sensor High
0474	Exhaust Pressure Sensor Intermittent
0475	Exhaust Pressure Control Valve Malfunction
0476	Exhaust Pressure Control Valve Range/Performance
0477	Exhaust Pressure Control Valve Low
0478	Exhaust Pressure Control Valve High
0479	Exhaust Pressure Control Valve Intermittent
0480	Cooling Fan 1 Control Circuit Malfunction
0481	Cooling Fan 2 Control Circuit Malfunction
0482	Cooling Fan 3 Control Circuit Malfunction
0483	Cooling Fan Rationality Check Malfunction
0484	Cooling Fan Circuit Over Current
0485	Cooling Fan Power/Ground Circuit Malfunction
0500	Vehicle Speed Sensor Malfunction
0501	Vehicle Speed Sensor Range/Performance
0502	Vehicle Speed Sensor Low Input
0503	Vehicle Speed Sensor Intermittent/Erratic/High

0505	Idle Control System Malfunction
0506	Idle Control System RPM Lower Than Expected
0507	Idle Control System RPM Higher Than Expected
0510	Closed Throttle Position Switch Malfunction
0520	Engine Oil Pressure Sensor/Switch Circuit Malfunction
0521	Engine Oil Pressure Sensor/Switch Circuit Range/Performance
0522	Engine Oil Pressure Sensor/Switch Circuit Low Voltage
0523	Engine Oil Pressure Sensor/Switch Circuit High Voltage
0530	A/C Refrigerant Pressure Sensor Circuit Malfunction
0531	A/C Refrigerant Pressure Sensor Circuit Range/Performance
0532	A/C Refrigerant Pressure Sensor Circuit Low Input
0533	A/C Refrigerant Pressure Sensor Circuit High Input
0534	Air Conditioner Refrigerant Charge Loss
0550	Power Steering Pressure Sensor Circuit Malfunction
0551	Power Steering Pressure Sensor Circuit Range/Performance
0552	Power Steering Pressure Sensor Circuit Low Input
0553	Power Steering Pressure Sensor Circuit High Input
0554	Power Steering Pressure Sensor Circuit Intermittent
0560	System Voltage Malfunction
0561	System Voltage Unstable
0562	System Voltage Low
0563	System Voltage High
0565	Cruise Control On Signal Malfunction
0566	Cruise Control Off Signal Malfunction
0567	Cruise Control Resume Signal Malfunction
0568	Cruise Control Set Signal Malfunction
0569	Cruise Control Coast Signal Malfunction
0570	Cruise Control Acceleration Signal Malfunction
0571	Cruise Control/Brake Switch A Circuit Malfunction
0572	Cruise Control/Brake Switch A Circuit Low
0573	Cruise Control/Brake Switch A Circuit High
0574	Cruise Control Related Malfunction
0575	Cruise Control Related Malfunction
0576	Cruise Control Related Malfunction
0577	Cruise Control Related Malfunction
0578	Cruise Control Related Malfunction
0579	Cruise Control Related Malfunction
0580	Cruise Control Related Malfunction

0600	Serial Communication Link Malfunction
0601	Control Module Read Only Memory (ROM)
0602	Control Module Programming Error
0603	Internal Control Module Keep Alive Memory (KAM) Error
0604	Internal Control Module Random Access Memory (RAM) Error
0605	Internal Control Module Read Only Memory (ROM) Error
0606	PCM Processor Fault
0608	Control Module VSS Output "A" Malfunction
0609	Control Module VSS Output "B" Malfunction
0620	Generator Control Circuit Malfunction
0621	Generator Lamp "L" Control Circuit Malfunction
0622	Generator Field "F" Control Circuit Malfunction
0650	Malfunction Indicator Lamp (MIL) Control Circuit Malfunction
0654	Engine RPM Output Circuit Malfunction
0655	Engine Hot Lamp Output Control Circuit Malfunction
0656	Fuel Level Output Circuit Malfunction
0700	Transmission Control System Malfunction
0701	Transmission Control System Range/Performance
0702	Transmission Control System Electrical
0703	Torque Converter/Brake Switch B Circuit Malfunction
0704	Clutch Switch Input Circuit Malfunction
0705	Transmission Range Sensor Circuit malfunction (PRNDL Input)
0706	Transmission Range Sensor Circuit Range/Performance
0707	Transmission Range Sensor Circuit Low Input
0708	Transmission Range Sensor Circuit High Input
0709	Transmission Range Sensor Circuit Intermittent
0710	Transmission Fluid Temperature Sensor Circuit Malfunction
0711	Transmission Fluid Temperature Sensor Circuit Range/Performance
0712	Transmission Fluid Temperature Sensor Circuit Low Input
0713	Transmission Fluid Temperature Sensor Circuit High Input
0714	Transmission Fluid Temperature Sensor Circuit Intermittent
0715	Input/Turbine Speed Sensor Circuit Malfunction
0716	Input/Turbine Speed Sensor Circuit Range/Performance
0717	Input/Turbine Speed Sensor Circuit No Signal
0718	Input/Turbine Speed Sensor Circuit Intermittent
0719	Torque Converter/Brake Switch B Circuit Low
0720	Output Speed Sensor Circuit Malfunction
0721	Output Speed Sensor Range/Performance

0722	Output Speed Sensor No Signal
0723	Output Speed Sensor Intermittent
0724	Torque Converter/Brake Switch B Circuit High
0725	Engine Speed input Circuit Malfunction
0726	Engine Speed Input Circuit Range/Performance
0727	Engine Speed Input Circuit No Signal
0728	Engine Speed Input Circuit Intermittent
0730	Incorrect Gear Ratio
0731	Gear 1 Incorrect ratio
0732	Gear 2 Incorrect ratio
0733	Gear 3 Incorrect ratio
0734	Gear 4 Incorrect ratio
0735	Gear 5 Incorrect ratio
0736	Reverse incorrect gear ratio
0740	Torque Converter Clutch Circuit Malfunction
0741	Torque Converter Clutch Circuit Performance or Stuck Off
0742	Torque Converter Clutch Circuit Stuck On
0743	Torque Converter Clutch Circuit Electrical
0744	Torque Converter Clutch Circuit Intermittent
0745	Pressure Control Solenoid Malfunction
0746	Pressure Control Solenoid Performance or Stuck Off
0747	Pressure Control Solenoid Stuck On
0748	Pressure Control Solenoid Electrical
0749	Pressure Control Solenoid Intermittent
0750	Shift Solenoid A Malfunction
0751	Shift Solenoid A Performance or Stuck Off
0752	Shift Solenoid A Stuck On
0753	Shift Solenoid A Electrical
0754	Shift Solenoid A Intermittent
0755	Shift Solenoid B Malfunction
0756	Shift Solenoid B Performance or Stuck Off
0757	Shift Solenoid B Stuck On
0758	Shift Solenoid B Electrical
0759	Shift Solenoid B Intermittent
0760	Shift Solenoid C Malfunction
0761	Shift Solenoid C Performance or Stuck Off
0762	Shift Solenoid C Stuck On
0763	Shift Solenoid C Electrical

0764	Shift Solenoid C Intermittent
0765	Shift Solenoid D Malfunction
0766	Shift Solenoid D Performance or Stuck Off
0767	Shift Solenoid D Stuck On
0768	Shift Solenoid D Electrical
0769	Shift Solenoid D Intermittent
0770	Shift Solenoid E Malfunction
0771	Shift Solenoid E Performance or Stuck Off
0772	Shift Solenoid E Stuck On
0773	Shift Solenoid E Electrical
0774	Shift Solenoid E Intermittent
0780	Shift Malfunction
0781	12 Shift Malfunction
0782	23 Shift Malfunction
0783	34 Shift Malfunction
0784	45 Shift Malfunction
0785	Shift/Timing Solenoid Malfunction
0786	Shift/Timing Solenoid Range/Performance
0787	Shift/Timing Solenoid Low
0788	Shift/Timing Solenoid High
0789	Shift/Timing Solenoid Intermittent
0790	Normal/Performance Switch Circuit Malfunction
0801	Reverse Inhibit Control Circuit Malfunction
0803	14 Upshift (Skip Shift) Solenoid Control Circuit Malfunction
0804	14 Upshift (Skip Shift) Lamp Control Circuit Malfunction

Table B: Manufacturer OBDII DTC Definitions

1000	OBD II Monitor Testing Not Complete
1100	Mass Air Flow (MAF) Sensor Intermittent
1101	Mass Air Flow (MAF) Sensor Out of Selftest Range
1102	IAC/TCC (Torque Converter)/Fan Relay Control Transistor Malfunction
1106	Mass Air Flow (MAF) Input Voltage High
1107	Mass Air Flow (MAF) Input Voltage Low
1111	Intake Air Temperature Sensor Malfunction
1112	Intake Air Temperature (IAT) Sensor Intermittent
1114	Coolant Sensor Intermittently Open
1115	Coolant Sensor Malfunction
1116	Coolant Sensor Signal Out of Range
1117	Coolant Sensor Intermittent
1120	Throttle Position (TP) Sensor Out of Range Low
1121	Throttle Position (TP) Sensor Inconsistent With MAF Sensor
1122	Throttle Position Sensor and Mass Air Flow Sensor Signal Not Match
1124	Throttle Position (TP) Sensor Out of Selftest Range
1125	Throttle Position (TP) Sensor Circuit Intermittent
1130	Front Main O2 Sensor Signal Change Too Small
1131	Lack of Upstream Heated O2 Sensor (HO2S11) Switch, Sensor Indicates Lean (Bank #1)
1132	Lack of Upstream Heated O2 Sensor (HO2S11) Switch, Sensor Indicates Rich (Bank #1)
1133	Front Main O2 Sensor Signal No Change
1134	Front Main O2 Sensor Signal Faulty
1135	Front Main O2 Sensor Signal Faulty
1137	Lack of Downstream Heated O2 Sensor (HO2S12) Switch, Sensor Indicate Lean Bank#1
1138	Lack of Downstream Heated O2 Sensor (HO2S12) Switch, Sensor Indicate Rich Bank#1
1150	Lack of Upstream Heated O2 Sensor (HO2S 21) Switch, Adaptive Fuel At Limit Bank #2
1151	Lack of Upstream Heated O2 Sensor (HO2S 21) Switch, Sensor Indicates Lean Bank #2
1152	Lack of Upstream Heated O2 Sensor (HO2S 21) Switch, Sensor Indicates Rich Bank #2
1154	Rear Main O2 Sensor Signal Faulty
1155	Rear Main O2 Sensor Signal Faulty
1157	Lack of Downstream Heated O2 S (HO2S 22) Switch, Sensor Indicates

Lean Bank # 2	
1158	Lack of Downstream Heated O2 S (HO2S 22) Switch, Sensor Indicates Rich Bank # 2
1220	Series Throttle Control System Malfunction
1224	Throttle Position Sensor B(TPB) Out of Selftest Range
1233	Fuel Pump Driver Module Disabled or Offline
1234	Fuel Pump Driver Module Disabled or Offline
1235	Fuel Pump Control Out of Selftest Range
1236	Fuel Pump Control Out of Selftest Range
1237	Fuel Pump Secondary Circuit Malfunction
1238	Fuel Pump Secondary Circuit Malfunction
1257	Turbo Boost Control Solenoid Circuit Faulty
1260	THEFT Detected Engine Disabled
1270	Engine RPM or Vehicle Speed Limiter Reached
1274	Injector Circuit Malfunction
1291	Heat Air Inlet
1292	Mixture Air Pressure Too High
1293	Mixture Air Pressure Too Low
1294	Engine Performance At Idle
1295	No 5V Supply To Throttle Position Sensor
1296	No 5V Supply To MAP
1297	Manifold Pressure Changes
1298	Throttle Opens Too Wide
1299	Engine Over Temperature Condition
1300	IGF or GT Ignition Signal Faulty
1307	Acceleration Sensor Voltage Signal Too Low
1308	Acceleration Sensor Voltage Signal Too High
1310	Ignition Intermittent (More Than 1 Cylinder)
1326	Knock Control Circuit or PCM Faulty
1329	Knock Control Circuit or PCM Faulty
1350	Electronic Ignition Timing Circuit Malfunction
1351	Ignition Diagnostic Monitor (IDM) Circuit Input Malfunction
1352	High Voltage Coil A (1# and 6# Cylinder)
1353	High Voltage Coil B (3# and 5# Cylinder)
1354	High Voltage Coil C (4# and 7# Cylinder)
1355	High Voltage Coil D (2# and 8# Cylinder)
1356	PIPS Occurred While IDM Pulse Width Indicates Engine Not Turning
1357	Ignition Diagnostic Monitor (IDM) Pulse Width Not Defined

1358	Ignition Diagnostic Monitor (IDM) Signal Out of Selftest Range
1361	Electronic Ignition Timing Bypass Circuit Malfunction
1364	Secondary Side of The Ignition Circuit Faulty
1374	Crank Low Res Correlate
1381	ABS Road Sensing System Error
1390	Octane Adjust Out of Selftest Range
1391	Camshaft/Crankshaft Sensor
1392	Camshaft/Crankshaft Sensor
1393	Camshaft/Crankshaft Sensor
1394	Camshaft/Crankshaft Sensor
1395	Camshaft/Crankshaft Sensor
1398	Camshaft/Crankshaft Sensor
1399	Start Light Circuit Faulty
1400	Differential Pressure Feedback EGR (DPFE) Sensor Circuit Low Voltage Detected
1401	Differential Pressure Feedback EGR (DPFE) Sensor High Voltage Detected
1403	EGR Solenoid Control Faulty
1404	EGR Solenoid Control Faulty
1405	Differential Pressure Feedback EGR (DPFE) Sensor Upstream Hose Off or Plugged
1406	Differential Pressure Feedback EGR (DPFE) Sensor Downstream Hose Off or Plugged
1407	EGR Solenoid Stuck At The WIDE OPEN Position
1408	Exhaust Gas Recirculation (EGR) Flow Out of Selftest Range
1409	Electronic Vacuum Regulator (EVR) Control Circuit Malfunction
1413	Secondary Air Injection System Monitor Circuit Low Voltage
1414	Secondary Air Injection System Monitor Circuit High Voltage
1416	EGR Temperature Sensor Circuit Faulty
1417	EGR Temperature Sensor Signal Too Low
1418	EGR Temperature Sensor Signal Too High
1441	Evaporative Emission Control System Malfunction
1442	Evaporative Emission Control System Small Leak Detected
1443	Evaporative Emission Control System Vacuum System, Purge Control Solenoid or Vapor Management Valve Malfunction
1444	Purge Flow (PF) Sensor Circuit Low Input
1445	Purge Flow (PF) Sensor Circuit High Input
1460	Wide Open Throttle Air Conditioning Cutoff (WAC) Circuit Malfunction
1461	Air Conditioning Pressure (ACP) Sensor Circuit Low Input

1462	Air Conditioning Pressure (ACP) Sensor Circuit High Input
1463	Air Conditioning Pressure (ACP) Insufficient Pressure Change
1464	Air Condition (A/C) Demand Out of Selftest Range
1469	Low Air Conditioning Cycling Period
1473	Fan Secondary High With Fan(S) Off
1474	Low Fan Control Primary Circuit Malfunction
1479	High Fan Control Primary Circuit Malfunction
1480	Fan Secondary Low With Low Fan On
1481	Fan Secondary Low With High Fan On
1486	Evaporation Hose Clamped
1487	High Fan 2 Circuit Faulty
1488	AUX Output Lower Than 5V
1489	High Fan Relay Circuit
1490	Low Fan Relay Circuit
1491	Cooling Fan Relay Circuit
1492	Ambient Temperature Sensor Voltage Too High
1493	Ambient Temperature Sensor Voltage Too Low
1494	Leakage Detecting Pump Pressure Switch
1495	Leakage Detecting Pump Coil Circuit
1496	5V Output Much Lower Than Specification
1500	Vehicle Speed Sensor (VSS) Circuit Intermittent
1505	Idle Air Control IAC System At Adaptive Clip
1506	Idle Air Control IAC Over Speed Error
1507	Idle Air Control IAC Under Speed Error
1508	IAC Control Shutoff Signal Too High
1509	Idle Control Malfunction (High)
1518	Intake Manifold Runner Control Malfunction (Stuck Open)
1519	Intake Manifold Runner Control Malfunction (Stuck Closed)
1520	Intake Manifold Runner Control Circuit Malfunction
1530	Air Condition (A/C) Clutch Malfunction
1531	Coolant Pressure Too Low or Pressure Switch Malfunctions
1550	Power Steering Pressure (PSP) Sensor Out of Selftest Range
1554	Cruise MTR Connection Error
1558	Cruise Control Solenoid Position Sensor Signal Too Low
1561	Cruise Vent Solenoid Malfunction
1562	Cruise Vacuum Solenoid Malfunction
1565	Cruise Control Solenoid Position Sensor
1567	Cruise Control Function Switch Malfunction

1568	Cruise Control Solenoid Position Sensor Signal Too High
1571	ABS Load Signal
1573	ABS Load Circuit Open
1596	Power Steering Switch Input Stage
1598	A/C Pressure Sensor Input Voltage Too Low
1599	A/C Pressure Sensor Input Voltage Too Low; Cruise Control Solenoid Power Supply
1600	ECM KAM Faulty
1605	Powertrain Control Modulekeep Alive Memory Test Error
1610	Flash EPROM Reprogram Error
1611	Flash EPROM Reprogram Error
1612	Flash EPROM Reprogram Error
1613	Flash EPROM Reprogram Error
1614	Flash EPROM Reprogram Error
1615	Flash EPROM Reprogram Error
1616	Flash EPROM Reprogram Error
1617	Signal Through The Connection Between ECM (B26) and TCM (B 15) Too Low); Flash EPROM Reprogram Error
1618	Signal Through The Connection Between ECM (B26) and TCM (B 15) Too Low); Flash EPROM Reprogram Error
1619	Oil Indicator Reset Circuit Faulty; FLASH EPROM Error
1620	Flash EPROM Reprogram Error
1623	PROM Faulty
1626	B(+) Supply To Variable Load Control Module Air Condition Circuit Malfunction
1629	Fuel Pump Control Fails When Cranking Engine Due To ATA System
1630	Battery Voltage Higher Than 17.3V Or Lower Than 9V
1635	VSBA Circuit Faulty
1639	VSBA Circuit Faulty
1640	EVAP,TCC Fan Circuit Malfunction
1641	ODMA Output 1 Circuit Faulty
1642	ODMA Output 2 Circuit Faulty
1643	ODMA Output 3 Circuit Faulty
1644	ODMA Output 4 Circuit Faulty
1645	ODMA Output 5 Circuit Faulty
1646	ODMA Output 6 Circuit Faulty
1647	ODMA Output 7 Circuit Faulty
1650	Shift Solenoid, TCC, EGR Circuit Faulty

1651	Power Steering Pressure (PSP) Switch Input Malfunction
1652	ODMB Output 2 Circuit Faulty
1653	ODMB Output 3 Circuit Faulty
1654	ODMB Output 4 Circuit Faulty
1655	ODMB Output 5 Circuit Faulty
1656	ODMB Output 6 Circuit Faulty
1657	ODMB Output 7 Circuit Faulty
1661	ODMC Output 1 Circuit Faulty
1662	ODMC Output 2 Circuit Faulty
1663	ODMC Output 3 Circuit Faulty
1664	ODMC Output 4 Circuit Faulty
1665	ODMC Output 5 Circuit Faulty
1666	ODMC Output 6 Circuit Faulty
1667	ODMC Output 7 Circuit Faulty
1670	MIL Control Circuit Faulty
1671	ODMD Output 1 Circuit Faulty
1672	ODMD Output 2 Circuit Faulty
1673	ODMD Output 3 Circuit Faulty
1674	ODMD Output 4 Circuit Faulty
1675	ODMD Output 5 Circuit Faulty
1676	ODMD Output 6 Circuit Faulty
1677	ODMD Output 7 Circuit Faulty
1698	No CCD Signal Received From Transmission Control Module
1699	No CCD Signal Received From Transmission Control Module
1701	Reverse Engagement Error
1703	Brake On/Off (BOO) Switch Out of Selftest Range
1705	Transmission Range (TR) Sensor Out of Selftest Range
1709	Park or Neutral Position (PNP) Switch Not Indicating Neutral During KOEO Selftest
1711	Transmission Fluid Temperature (TFT) Sensor Out of Selftest Range
1715	Transmission Fluid Pressure Solenoid Faulty
1729	4*4 Low Switch Error
1730	4*4 Low
1731	1/2 Shift Malfunction
1732	2/3 Malfunction
1733	3/4 Malfunction
1741	Torque Converter Clutch Control Error
1742	Torque Converter Clutch Solenoid Failed On (Turns On MIL)

1743	Torque Converter Clutch Solenoid Failed On (Turns On TCIL)
1744	Torque Pressure Control System Mechanically Stuck In Off Position
1746	Electronic Pressure Control Solenoid Open Circuit (Low Input)
1747	Electronic Pressure Control Solenoid Short Circuit (Short Input)
1749	Electronic Pressure Control Solenoid Failed Low
1750	Transmission Shift Solenoid Malfunction
1751	Shift Solenoid #1 Performance
1752	Shift Solenoid #1 Performance
1754	Coast Clutch Solenoid Circuit Malfunction
1756	Shift Solenoid #2 Performance
1761	Shift Solenoid #3 Performance
1762	GOV Pressure Sensor Faulty
1763	GOV Pressure Sensor Voltage Too High
1764	GOV Pressure Sensor Voltage Too Low
1765	Transmission Pipe Pressure Solenoid Faulty
1766	Shift Solenoid D Faulty
1780	Transmission Control Switch Circuit Out of Selftest Range
1781	4*4 Low Switch Out of Selftest Range
1783	Transmission Over Temperature Condition
1784	Transmission Shift #1,Reverse Shift Mechanical Fault
1785	Transmission Shift 1,2 Mechanical Fault
1788	32 Timing/Coast Clutch Solenoid (32 /CCS) Circuit Open
1789	32 Timing/Coast Clutch Solenoid (32/CCS)Circuit Shorted
1801	Selection Switch Malfunction
1810	PSS Intake Manifold Faulty
1811	Maximum Adjustment and Shift Malfunction (HMD)
1812	Transmission Too Hot
1814	Torque Converter Too Tight
1860	Converter Solenoid Circuit (HMD)
1864	Converter Solenoid Circuit (HMD)
1870	Transmission Module Unstable
1871	Ratio Not Defined
1886	32 Clutch Circuit Malfunction
1889	3RD Clutch Switch (HMD)
1899	P/N Switch Input stage