	OBD-II Diagnostic Trouble Code Definitions	North America								Europe				Australia			
	Chart indicates design-responsible software activity which implemented DTC. G=North American spark ignition, D=North American diesel, E= Europe, N=Nissan, J=Jaguar, U=Australian. Spark Ignition includes: Gasoline, FFV, NGV, LPG and bi-fuel conversions.	Spark Ignition			Diesel			Mazda	Jaguar	Nissan	Spark Ignition			Diesel	Spark Ignition			SAE J1930 Component/ System and I/O Type
	* = MIL illuminates, ^ = O/D Cancel flashes, [ ] = assigned but not used																	
	All DTCs preceded by P unless otherwise indicated. Capital and small letters are used for visual impact only! Mazda and Nissan DTCs are for reference. Ford P/T is not responsible for assigning these DTCs. Shading indicates change from previous version.	Continuous	KOEO	KOER	Continuous	KOEO	KOER				Continuous	KOEO	KOER		Continuous	KOEO	KOER	A = Analog D = Digital F = Frequency I = Input O = Output
	Fuel and Air Metering																	
0010	A Camshaft Position Actuator Circuit (Bank 1)							M*										
0011	A Camshaft Position Timing - Over-Advanced (Bank 1)							M*										
0012	A Camshaft Position Timing - Over-Retarded (Bank 1)							M*										
0013	B Camshaft Position Actuator Circuit (Bank 1)																	
0014	B Camshaft Position Timing - Over-Advanced (Bank 1)																	
0015	B Camshaft Position Timing - Over-Retarded (Bank 1)																	
0016																		
0017																		
0018																		
0019																		
0020	A Camshaft Position Actuator Circuit (Bank 2)																	
0021	A Camshaft Position Timing - Over-Advanced (Bank 2)																	
0022	A Camshaft Position Timing - Over-Retarded (Bank 2)																	
0023	B Camshaft Position Actuator Circuit (Bank 2)																	
0024	B Camshaft Position Timing - Over-Advanced (Bank 2)																	
0025	B Camshaft Position Timing - Over-Retarded (Bank 2)																	
0026																		
0027																		
0028																		
0029																		
0030	HO2S Heater Control Circuit (bank 1, sensor 1)																	
0031	HO2S Heater Control Circuit Low (bank 1, sensor 1)							M*										
0032	HO2S Heater Control Circuit High (bank 1, sensor 1)							M*										
0033	Turbo Charger Bypass Valve Control Circuit																	
0034	Turbo Charger Bypass Valve Control Circuit Low																	
0035	Turbo Charger Bypass Valve Control Circuit High																	
0036	HO2S Heater Control Circuit (bank 1, sensor 2)																	
0037	HO2S Heater Control Circuit Low (bank 1, sensor 2)							M*										
0038	HO2S Heater Control Circuit High (bank 1, sensor 2)							M*										
0039																		
0040																		
0041																		
0042	HO2S Heater Control Circuit (bank 1, sensor 3)																	
0043	HO2S Heater Control Circuit Low (bank 1, sensor 3)							M										
0044	HO2S Heater Control Circuit High (bank 1, sensor 3)							M										
0045																		
0046																		
0047																		
0048																		
0049																		
0050	HO2S Heater Control Circuit (bank 2, sensor 1)																	
0051	HO2S Heater Control Circuit Low (bank 2, sensor 1)							M*										
0052	HO2S Heater Control Circuit High (bank 2, sensor 1)							M*										
0053																		
0054																		
0055																		
0056	HO2S Heater Control Circuit (bank 2, sensor 2)																	
0057	HO2S Heater Control Circuit Low (bank 2, sensor 2)							M*										
0058	HO2S Heater Control Circuit High (bank 2, sensor 2)							M*										
0059																		
0060																		
0061																		
0062	HO2S Heater Control Circuit (bank 2, sensor 3)																	
0063	HO2S Heater Control Circuit Low (bank 2, sensor 3)																	
0064	HO2S Heater Control Circuit High (bank 2, sensor 3)																	
0065	Air Assisted Injector Control Range/Performance	G*		g					?									
0066	Air Assisted Injector Control Circuit or Circuit Low	G*	g	g					?									
0067	Air Assisted Injector Control Circuit High																	

Paul Baltusis
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0068																		
0069																		
0070	Ambient Air Temperature Sensor Circuit																	
0071	Ambient Air Temperature Sensor Range/Performance																	
0072	Ambient Air Temperature Sensor Circuit Low Input																	
0073	Ambient Air Temperature Sensor Circuit High Input																	
0074	Ambient Air Temperature Sensor Circuit Intermittent																	
0075	Intake Valve Control Circuit (Bank 1)																	
0076	Intake Valve Control Circuit Low (Bank 1)																	
0077	Intake Valve Control Circuit High (Bank 1)																	
0078	Exhaust Valve Control Circuit (Bank 1)																	
0079	Exhaust Valve Control Circuit Low (Bank 1)																	
0080	Exhaust Valve Control Circuit High (Bank 1)																	
0081	Intake Valve Control Circuit (Bank 2)																	
0082	Intake Valve Control Circuit Low (Bank 2)																	
0083	Intake Valve Control Circuit High (Bank 2)																	
0084	Exhaust Valve Control Circuit (Bank 2)																	
0085	Exhaust Valve Control Circuit Low (Bank 2)																	
0086	Exhaust Valve Control Circuit High (Bank 2)																	
0087	Fuel Rail/System Pressure - Too Low																	
0088	Fuel Rail/System Pressure - Too High																	
0089	Fuel Pressure Regulator Performance																	
0090	Fuel Pressure Regulator Control Circuit																	
0091	Fuel Pressure Regulator Control Circuit Low																	
0092	Fuel Pressure Regulator Control Circuit High																	
0093	Fuel System Leak Detected - Large Leak																	
0094	Fuel System Leak Detected - Small Leak																	
0095																		
0096																		
0097																		
0098																		
0099																		
	Fuel and Air Metering																	
0100	Mass or Volume Air Flow Circuit							M		N	E			D				MAF/VAF [AI]
0101	Mass or Volume Air Flow Circuit Range/Performance								J*						U			MAF/VAF [AI]
0102	Mass or Volume Air Flow Circuit Low Input	G*		g				M*	J*		E*		e		U			MAF/VAF [AI]
0103	Mass or Volume Air Flow Circuit High Input	G*	g	g				M*	J*		E*	e	e		U			MAF/VAF [AI]
0104	Mass or Volume Air Flow Circuit Intermittent																	MAF/VAF [AI]
0105	Manifold Absolute Pressure/BARO Circuit	G*			D			M						D				MAP/BARO
0106	Manifold Absolute Pressure/BARO Sensor Range/Performance	G*			D			M*	J*						U			MAP/BARO
0107	Manifold Absolute Pressure/BARO Sensor Low Input	G*			D*	d		M*	J*		E*	e	e		U			MAP/BARO
0108	Manifold Absolute Pressure/BARO Sensor High Input	G*			D*	d		M*			E*	e	e		U			MAP/BARO
0109	Manifold Absolute Pressure/BARO Sensor Intermittent	G*									E							MAP/BARO
0110	Intake Air Temperature Circuit							M		N				D				IAT [AI]
0111	Intake Air Temperature Circuit Range/Performance							M*	J*						U			IAT [AI]
0112	Intake Air Temperature Circuit Low Input	G*	g	g	D*	d		M*	J*		E*	e	e		U			IAT [AI]
0113	Intake Air Temperature Circuit High Input	G*	g	g	D*	d		M*	J*		E*	e	e		U			IAT [AI]
0114	Intake Air Temperature Intermittent																	IAT [AI]
0115	Engine Coolant Temperature Circuit							M		N	E			D				ECT [AI]
0116	Engine Coolant Temperature Circuit Range/Performance	G*						M*	J*						U			ECT [AI]
0117	Engine Coolant Temperature Circuit Low Input	G*	g	g	D*			M*	J*		E*	e	e		U			ECT [AI]
0118	Engine Coolant Temperature High Input	G*	g	g	D*			M*	J*		E*	e	e		U			ECT [AI]
0119	Engine Coolant Temperature Intermittent																	ECT [AI]
0120	Throttle Position Sensor A Circuit	G*						M		N	E							TP-A [AI]
0121	Throttle Position Sensor A Circuit Range/Performance			g				M	J*				e		U			TP-A [AI]
0122	Throttle Position Sensor A Circuit Low Input	G*	g	g	D*	d		M*	J*		E*	e	e		U			TP-A [AI]
0123	Throttle Position Sensor A Circuit High Input	G*	g	g	D*	d		M*	J*		E*	e	e					TP-A [AI]
0124	Throttle Position Sensor A Intermittent	G	g	g														TP-A [AI]
0125	Insufficient Coolant Temp For Closed Loop Fuel Control	G*						M*	J*	N	E							ECT
0126	Insufficient Coolant Temp For Stable Operation	[G]																ECT

Paul Baltusis
Diagnostic Systems Department

	OBD-II Diagnostic Trouble Code Definitions	North America								Europe				Australia			
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	* = MIL illuminates, ^ = O/D Cancel flashes, [ ] = assigned but not used																	
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0127	Intake Air Temperature Too High	G																IAT-B
0128	Coolant Thermostat (Coolant Temp Below Thermostat Regulating Temperature)							M*	J									
0129																		
0130	Oxygen Sensor Circuit (bank 1, sensor 1)							M		N								HO2S11 [AI]
0131	Oxygen Sensor Circuit Low Voltage (bank 1, sensor 1)	G*						M*	J*		E*				U			HO2S11 [AI]
0132	Oxygen Sensor Circuit High Voltage (bank 1, sensor 1)	G*	g	g				M*	J*		E*	e	e					HO2S11 [AI]
0133	Oxygen Sensor Circuit Slow Response (bank 1, sensor 1)	G*						M*	J*		E*							HO2S11 [AI]
0134	Oxygen Sensor Circuit No Activity Detected (bank 1, sensor 1)							M*										HO2S11 [AI]
0135	Heated Oxygen Sensor Heater Circuit (bank 1, sensor 1)	G*	g	g				M	J*	N	E*	e	e					HO2S11 [AI]
0136	Oxygen Sensor Circuit (bank 1, sensor 2)	G*						M		N	E*							HO2S12 [AI]
0137	Oxygen Sensor Circuit Low Voltage (bank 1, sensor 2)							M	J*									HO2S12 [AI]
0138	Oxygen Sensor Circuit High Voltage (bank 1, sensor 2)	G*	g	g				M*	J*		E*	e	e					HO2S12 [AI]
0139	Oxygen Sensor Circuit Slow Response (bank 1, sensor 2)								J									HO2S12 [AI]
0140	Oxygen Sensor Circuit No Activity Detected (bank 1, sensor 2)							M*	J*									HO2S12 [AI]
0141	Heated Oxygen Sensor Heater Circuit (bank 1, sensor 2)	G*	g	g				M		N	E*	e	e					HO2S12 [AI]
0142	Oxygen Sensor Circuit (bank 1, sensor 3)							M										HO2S13 [AI]
0143	Oxygen Sensor Circuit Low Voltage (bank 1, sensor 3)																	HO2S13 [AI]
0144	Oxygen Sensor Circuit High Voltage (bank 1, sensor 3)							M										HO2S13 [AI]
0145	Oxygen Sensor Circuit Slow Response (bank 1, sensor 3)																	HO2S13 [AI]
0146	Oxygen Sensor Circuit No Activity Detected (bank 1, sensor 3)							M										HO2S13 [AI]
0147	Heated Oxygen Sensor Heater Circuit (bank 1, sensor 3)							M										HO2S13 [AI]
0148	Fuel Delivery Error													D				
0149	Fuel Timing Error													D				
0150	Oxygen Sensor Circuit (bank 2, sensor 1)							M										HO2S21 [AI]
0151	Oxygen Sensor Circuit Low Voltage (bank 2, sensor 1)	G*						M*	J*						U			HO2S21 [AI]
0152	Oxygen Sensor Circuit High Voltage (bank 2, sensor 1)	G*		g				M*	J*		E*	e	e					HO2S21 [AI]
0153	Oxygen Sensor Circuit Slow Response (bank 2, sensor 1)	G*						M*	J*		E*							HO2S21 [AI]
0154	Oxygen Sensor Circuit No Activity Detected (bank 2, sensor 1)							M*										HO2S21 [AI]
0155	Heated Oxygen Sensor Heater Circuit (bank 2, sensor 1)	G*	g	g				M	J*		E*	e	e					HO2S21 [AI]
0156	Oxygen Sensor Circuit (bank 2, sensor 2)	G*									E*							HO2S22 [AI]
0157	Oxygen Sensor Circuit Low Voltage (bank 2, sensor 2)							M	J*									HO2S22 [AI]
0158	Oxygen Sensor Circuit High Voltage (bank 2, sensor 2)	G*		g				M*	J*		E*	e	e					HO2S22 [AI]
0159	Oxygen Sensor Circuit Slow Response (bank 2, sensor 2)								J									HO2S22 [AI]
0160	Oxygen Sensor Circuit No Activity Detected (bank 2, sensor 2)							M*	J									HO2S22 [AI]
0161	Heated Oxygen Sensor Heater Circuit (bank 2, sensor 2)	G*	g	g							E*	e	e					HO2S22 [AI]
0162																		
0163																		
0164																		
0165																		
0166																		
0167																		
0168	Engine Fuel Temperature Too High													D				EFT
0169	Incorrect Fuel Composition																	
0170	Fuel Trim (Bank 1)							M										LTFT
0171	System Too Lean (Bank 1)	G*						M*	J*	N	E*				U			LTFT
0172	System Too Rich (Bank 1)	G*						M*	J*	N	E*				U			LTFT
0173	Fuel Trim (Bank 2)							M										LTFT
0174	System Too Lean (Bank 2)	G*						M*	J*		E*				U			LTFT
0175	System Too Rich (Bank 2)	G*						M*	J*		E*				U			LTFT
0176	Flexible Fuel Sensor Circuit	G*		g														FFS
0177	Flexible Fuel Sensor Circuit Range/Performance																	FFS
0178	Flexible Fuel Sensor Circuit Low Input																	FFS
1079	Flexible Fuel Sensor Circuit High Input																	FFS
0180	Fuel Temperature Sensor A Circuit	G*	g	g														FT-A
0181	Fuel Temperature Sensor A Circuit Range/Performance		g	g														FT-A
0182	Fuel Temperature Sensor A Circuit Low Input	G*	g	g														FT-A
0183	Fuel Temperature Sensor A Circuit High Input	G*	g	g														FT-A
0184	Fuel Temperature Sensor A Circuit Intermittent																	FT-A
0185	Fuel Temperature Sensor B Circuit																	FT-B
0186	Fuel Temperature Sensor B Circuit Range/Performance		g	g														FT-B

Paul Baltusis
Diagnostic Systems Department

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0187	Fuel Temperature Sensor B Circuit Low Input	G*	g	g														FT-B
0188	Fuel Temperature Sensor B Circuit High Input	G*	g	g														FT-B
0189	Fuel Temperature Sensor B Circuit Intermittent																	FT-B
0190	Fuel Rail Pressure Sensor	G*																FRP
0191	Fuel Rail Pressure Sensor Range/Performance	G*	g	g														FRP
0192	Fuel Rail Pressure Sensor Low Input	G*	g	g														FRP
0193	Fuel Rail Pressure Sensor High Input	G*	g	g														FRP
0194	Fuel Rail Pressure Sensor Intermittent																	FRP
0195	Engine Oil Temperature Sensor Circuit				D													EOT
0196	Engine Oil Temperature Sensor Circuit Range/Performance						d											EOT
0197	Engine Oil Temperature Sensor Circuit Low Input				D*	d												EOT
0198	Engine Oil Temperature Sensor Circuit High Input				D*	d												EOT
0199	Engine Oil Temperature Sensor Circuit Intermittent																	EOT
	Fuel and Air Metering																	
0200	Injector Circuit																	INJ [DO]
0201	Cylinder #1 - Injector Circuit	G*	g	g				M	J*		E*	e	e		U			INJ-1 [DO]
0202	Cylinder #2 - Injector Circuit	G*	g	g				M	J*		E*	e	e		U			INJ-2 [DO]
0203	Cylinder #3 - Injector Circuit	G*	g	g				M	J*		E*	e	e		U			INJ-3 [DO]
0204	Cylinder #4 - Injector Circuit	G*	g	g				M	J*		E*	e	e		U			INJ-4 [DO]
0205	Cylinder #5 - Injector Circuit	G*	g	g				M	J*		E*	e	e		U			INJ-5 [DO]
0206	Cylinder #6 - Injector Circuit	G*	g	g				M	J*		E*	e	e		U			INJ-6 [DO]
0207	Cylinder #7 - Injector Circuit	G*	g	g				M	J*						U			INJ-7 [DO]
0208	Cylinder #8 - Injector Circuit	G*	g	g				M	J*						U			INJ-8 [DO]
0209	Cylinder #9 - Injector Circuit	G*	g	g														INJ-9 [DO]
0210	Cylinder #10 - Injector Circuit	G*	g	g														INJ-10 [DO]
0211	Cylinder #11 - Injector Circuit	G*	g	g														INJ-11 [DO]
0212	Cylinder #12 - Injector Circuit	G*	g	g														INJ-12 [DO]
0213	Cold Start Injector 1	G*																
0214	Cold Start Injector 2																	
0215	Engine Shutoff Solenoid																	
0216	Injector/Injection Timing Control Circuit													D				
0217	Engine Coolant Overtemperature Condition	G																ECT
0218	Transmission Fluid Overtemperature Condition	G																TFT
0219	Engine Overspeed Condition				D			M										
0220	Throttle Position Switch B Circuit					d	d											TP-B [AI]
0221	Throttle Position Switch B Circuit Range/Performance				D*													TP-B [AI]
0222	Throttle Position Sensor B Circuit Low Input	G	g	g					J*									TP-B [AI]
0223	Throttle Position Sensor B Circuit High Input	G	g	g					J*									TP-B [AI]
0224	Throttle Position Sensor B Circuit Intermittent	G	g	g					J									TP-B [AI]
0225	Throttle Position Sensor C Circuit																	TP-C [AI]
0226	Throttle Position Sensor C Circuit Range/Performance																	TP-C [AI]
0227	Throttle Position Sensor C Circuit Low Input	G	g	g														TP-C [AI]
0228	Throttle Position Sensor C Circuit High Input	G	g	g														TP-C [AI]
0229	Throttle Position Sensor C Circuit Intermittent	G	g	g														TP-C [AI]
0230	Fuel Pump Primary Circuit	G	g	g	D	d		M			E	e	e		U			FP [DO]
0231	Fuel Pump Secondary Circuit Low	G	g	g	D*	d					E	e	e	D				FP [DO]
0232	Fuel Pump Secondary Circuit High	G	g		D	d					E	e						FP [DO]
0233	Fuel Pump Secondary Circuit Intermittent																	
0234	Turbo/Super Charger Overboost Condition	G																TC/SC
0235	Turbo/Super Charger Boost Sensor A Circuit				D									D				TC/SCB-A
0236	Turbo/Super Charger Boost Sensor A Circuit Range/Performance				D*	d												TC/SCB-A
0237	Turbo/Super Charger Boost Sensor A Circuit Low	G*			D*	d												TC/SCB-A
0238	Turbo/Super Charger Boost Sensor A Circuit High	G*			D*	d												TC/SCB-A
0239	Turbo/Super Charger Boost Sensor B Circuit																	TC/SCB-B
0240	Turbo/Super Charger Boost Sensor B Circuit Range/Performance																	TC/SCB-B
0241	Turbo/Super Charger Boost Sensor B Circuit Low																	TC/SCB-B
0242	Turbo/Super Charger Boost Sensor B Circuit High																	TC/SCB-B
0243	Turbo/Super Charger Wastegate Solenoid A	G	g	g										D				TCWGS-A
0244	Turbo/Super Charger Wastegate Solenoid A Range/Performance																	TCWGS-A
0245	Turbo/Super Charger Wastegate Solenoid A Low																	TCWGS-A

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Diagnostic Systems Department

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0246	Turbo/Super Charger Wastegate Solenoid A High																	TCWGS-A
0247	Turbo/Super Charger Wastegate Solenoid B																	TCWGS-B
0248	Turbo/Super Charger Wastegate Solenoid B Range/Performance																	TCWGS-B
0249	Turbo/Super Charger Wastegate Solenoid B Low																	TCWGS-B
0250	Turbo/Super Charger Wastegate Solenoid B High																	TCWGS-B
0251	Injection Pump Fuel Metering Control A							M										
0252	Injection Pump Fuel Metering Control A Range/Performance																	
0253	Injection Pump Fuel Metering Control A Low																	
0254	Injection Pump Fuel Metering Control A High																	
0255	Injection Pump Fuel Metering Control A Intermittent																	
0256	Injection Pump Fuel Metering Control B																	
0257	Injection Pump Fuel Metering Control B Range/Performance																	
0258	Injection Pump Fuel Metering Control B Low																	
0259	Injection Pump Fuel Metering Control B High																	
0260	Injection Pump Fuel Metering Control B Intermittent																	
0261	Cylinder #1 Injector Circuit Low				D*	d												INJ-1 [DO]
0262	Cylinder #1 Injector Circuit High				D	d												INJ-1 [DO]
0263	Cylinder #1 Contribution/Balance						d								U			
0264	Cylinder #2 Injector Circuit Low				D*	d												INJ-2 [DO]
0265	Cylinder #2 Injector Circuit High				D	d												INJ-2 [DO]
0266	Cylinder #2 Contribution/Balance						d								U			
0267	Cylinder #3 Injector Circuit Low				D*	d												INJ-3 [DO]
0268	Cylinder #3 Injector Circuit High				D	d												INJ-3 [DO]
0269	Cylinder #3 Contribution/Balance						d								U			
0270	Cylinder #4 Injector Circuit Low				D*	d												INJ-4 [DO]
0271	Cylinder #4 Injector Circuit High				D	d												INJ-4 [DO]
0272	Cylinder #4 Contribution/Balance						d								U			
0273	Cylinder #5 Injector Circuit Low				D*	d												INJ-5 [DO]
0274	Cylinder #5 Injector Circuit High				D	d												INJ-5 [DO]
0275	Cylinder #5 Contribution/Balance						d								U			
0276	Cylinder #6 Injector Circuit Low				D*	d												INJ-6 [DO]
0277	Cylinder #6 Injector Circuit High				D	d												INJ-6 [DO]
0278	Cylinder #6 Contribution/Balance						d								U			
0279	Cylinder #7 Injector Circuit Low				D*	d												INJ-7 [DO]
0280	Cylinder #7 Injector Circuit High				D	d												INJ-7 [DO]
0281	Cylinder #7 Contribution/Balance						d								U			
0282	Cylinder #8 Injector Circuit Low				D*	d												INJ-8 [DO]
0283	Cylinder #8 Injector Circuit High				D	d												INJ-8 [DO]
0284	Cylinder #8 Contribution/Balance						d								U			
0285	Cylinder #9 Injector Circuit Low																	INJ-9 [DO]
0286	Cylinder #9 Injector Circuit High																	INJ-9 [DO]
0287	Cylinder #9 Contribution/Balance																	
0288	Cylinder #10 Injector Circuit Low																	INJ-10 [DO]
0289	Cylinder #10 Injector Circuit High																	INJ-10 [DO]
0290	Cylinder #10 Contribution/Balance																	
0291	Cylinder #11 Injector Circuit Low																	INJ-11 [DO]
0292	Cylinder #11 Injector Circuit High																	INJ-11 [DO]
0293	Cylinder #11 Contribution/Balance																	
0294	Cylinder #12 Injector Circuit Low																	INJ-12 [DO]
0295	Cylinder #12 Injector Circuit High																	INJ-12 [DO]
0296	Cylinder #12 Contribution/Balance																	
0297																		
0298	Engine Oil Overtemperature Condition	G*																EOT
0299																		
	Ignition System or Misfire																	
0300	Random Misfire Detected	G*			D*			M*	J*	N	E*							
0301	Cylinder #1 Misfire Detected	G*			D*			M*	J*	N	E*							
0302	Cylinder #2 Misfire Detected	G*			D*			M*	J*	N	E*							
0303	Cylinder #3 Misfire Detected	G*			D*			M*	J*	N	E*							
0304	Cylinder #4 Misfire Detected	G*			D*			M*	J*	N	E*							

	OBD-II Diagnostic Trouble Code Definitions	North America									Europe				Australia			
	Chart indicates design-responsible software activity which implemented DTC. G=North American spark ignition, D=North American diesel, E= Europe, N=Nissan, J=Jaguar, U=Australian. Spark Ignition includes: Gasoline, FFV, NGV, LPG and bi-fuel conversions.	Spark Ignition			Diesel			Mazda	Jaguar	Nissan	Spark Ignition			Diesel	Spark Ignition			SAE J1930 Component/ System and I/O Type
	* = MIL illuminates, ^ = O/D Cancel flashes, [ ] = assigned but not used																	
	All DTCs preceded by P unless otherwise indicated. Capital and small letters are used for visual impact only! Mazda and Nissan DTCs are for reference. Ford P/T is not responsible for assigning these DTCs. Shading indicates change from previous version.	Continuous	KOEO	KOER	Continuous	KOEO	KOER				Continuous	KOEO	KOER		Continuous	KOEO	KOER	A = Analog D = Digital F = Frequency I = Input O = Output
0305	Cylinder #5 Misfire Detected	G*			D*			M*	J*	N	E*							
0306	Cylinder #6 Misfire Detected	G*			D*			M*	J*	N	E*							
0307	Cylinder #7 Misfire Detected	G*			D*			M*	J*									
0308	Cylinder #8 Misfire Detected	G*			D*			M*	J*									
0309	Cylinder #9 Misfire Detected	G*						M*	J*									
0310	Cylinder #10 Misfire Detected	G*						M*	J*									
0311	Cylinder #11 Misfire Detected							M*	J*									
0312	Cylinder #12 Misfire Detected							M*	J*									
0313	Misfire Detected with Low Fuel																	
0314	Single Cylinder Misfire (Cylinder not specific)																	
0315																		
0316																		
0317																		
0318																		
0319																		
0320	Ignition/Distributor Engine Speed Input Circuit	G*						M			E				U			CKP
0321	Ignition/Distributor Engine Speed Input Circuit Range/Performance										E*							CKP
0322	Ignition/Distributor Engine Speed Input Circuit No Signal	G*																CKP
0323	Ignition/Distributor Engine Speed Input Circuit Intermittent																	CKP
0324	Knock Control System Error																	
0325	Knock Sensor 1 Circuit (Bank 1)	G		g				M		N	E				U			KS-1
0326	Knock Sensor 1 Circuit Range/Performance (Bank 1)	G*		g					J*									KS-1
0327	Knock Sensor 1 Circuit Low Input (Bank1)							M*	J*						U			KS-1
0328	Knock Sensor 1 Circuit High Input (Bank 1)							M*	J*									KS-1
0329	Knock Sensor 1 Circuit Intermittent (Bank 1)																	K
0330	Knock Sensor 2 Circuit (Bank 2)	G		g				M										KS-2
0331	Knock Sensor 2 Circuit Range/Performance (Bank 2)	G*		g					J									KS-2
0332	Knock Sensor 2 Circuit Low Input (Bank 2)								J*									KS-2
0333	Knock Sensor 2 Circuit High Input (Bank 2)								J*									KS-2
0334	Knock Sensor 2 Circuit Intermittent (Bank 2)																	KS-2
0335	Crankshaft Position Sensor Circuit A	[G]						M	J	N	E			D				CKP
0336	Crankshaft Position Sensor Circuit A Range/Performance							M*	J					D				CKP
0337	Crankshaft Position Sensor Circuit A Low Input																	CKP
0338	Crankshaft Position Sensor Circuit A High Input																	CKP
0339	Crankshaft Position Sensor Circuit A Intermittent																	C
0340	Camshaft Position Sensor A Circuit (Bank 1 or single sensor)	G*				d		M	J*	N	E*				U			CMP
0341	Camshaft Position Sensor A Circuit Range/Performance (Bank 1 or single sensor)				D*		d	M*										CMP
0342	Camshaft Position Sensor A Circuit Low Input (Bank 1 or single sensor)																	CMP
0343	Camshaft Position Sensor A Circuit High Input (Bank 1 or single sensor)																	CMP
0344	Camshaft Position Sensor A Circuit Intermittent (Bank 1 or single sensor)				D*		d											CMP
0345	Camshaft Position Sensor A Circuit (Bank 2)																	
0346	Camshaft Position Sensor A Circuit Range/Performance (Bank 2)																	
0347	Camshaft Position Sensor A Circuit Low Input (Bank 2)																	
0348	Camshaft Position Sensor A Circuit High Input (Bank 2)																	
0349	Camshaft Position Sensor A Circuit Intermittent (Bank 2)																	
0350	Ignition Coil Primary/Secondary Circuit	G*						M			E*				U			IC
0351	Ignition Coil A Primary/Secondary Circuit	G*						M	J*		E*				U			IC-A
0352	Ignition Coil B Primary/Secondary Circuit	G*						M	J*		E*				U			IC-B
0353	Ignition Coil C Primary/Secondary Circuit	G*						M	J*		E*				U			IC-C
0354	Ignition Coil D Primary/Secondary Circuit	G*							J*						U			IC-D
0355	Ignition Coil E Primary/Secondary Circuit	G*							J*									IC-E
0356	Ignition Coil F Primary/Secondary Circuit	G*							J*									IC-F
0357	Ignition Coil G Primary/Secondary Circuit	G*							J*									IC-G
0358	Ignition Coil H Primary/Secondary Circuit	G*							J*									IC-H
0359	Ignition Coil I Primary/Secondary Circuit	G*																IC-I
0360	Ignition Coil J Primary/Secondary Circuit	G*																IC-J
0361	Ignition Coil K Primary/Secondary Circuit																	IC-K
0362	Ignition Coil L Primary/Secondary Circuit																	IC-L
0363																		
0364																		

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	OBD-II Diagnostic Trouble Code Definitions	North America								Europe				Australia			
	Chart indicates design-responsible software activity which implemented DTC. G=North American spark ignition, D=North American diesel, E= Europe, N=Nissan, J=Jaguar, U=Australian. Spark Ignition includes: Gasoline, FFV, NGV, LPG and bi-fuel conversions.	Spark Ignition			Diesel			Mazda	Jaguar	Nissan	Spark Ignition			Diesel	Spark Ignition			SAE J1930 Component/ System and I/O Type
	* = MIL illuminates, ^ = O/D Cancel flashes, [ ] = assigned but not used																	
	All DTCs preceded by P unless otherwise indicated. Capital and small letters are used for visual impact only! Mazda and Nissan DTCs are for reference. Ford P/T is not responsible for assigning these DTCs. Shading indicates change from previous version.	Continuous	KOEO	KOER	Continuous	KOEO	KOER				Continuous	KOEO	KOER		Continuous	KOEO	KOER	A = Analog D = Digital F = Frequency I = Input O = Output
0365	Camshaft Position Sensor B Circuit (Bank 1)																	
0366	Camshaft Position Sensor B Circuit Range/Performance (Bank 1)																	
0367	Camshaft Position Sensor B Circuit Low Input (Bank 1)																	
0368	Camshaft Position Sensor B Circuit High Input (Bank 1)																	
0369	Camshaft Position Sensor B Circuit Intermittent (Bank 1)																	
0370	Timing Reference High Resolution Signal A																	
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																	
0374	Timing Reference High Resolution Signal A No Pulses																	
0375	Timing Reference High Resolution Signal B																	
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																	
0379	Timing Reference High Resolution Signal B No Pulses																	
0380	Glow Plug/Heater Circuit A				D*	d								D				Glow Plug-A
0381	Glow Plug/Heater Indicator Circuit				D*	d								D				Glow Plug
0382	Glow Plug/Heater Circuit B																	Glow Plug-B
0383																		
0384																		
0385	Crankshaft Position Sensor Circuit B	G*		g														CKP-B
0386	Crankshaft Position Sensor B Circuit Range/Performance																	CKP-B
0387	Crankshaft Position Sensor Circuit B Low Input																	CKP-B
0388	Crankshaft Position Sensor Circuit B High Input																	CKP-B
0389	Crankshaft Position Sensor Circuit B Intermittent																	CKP-B
0390	Camshaft Position Sensor B Circuit (Bank 2)																	
0391	Camshaft Position Sensor B Circuit Range/Performance (Bank 2)																	
0392	Camshaft Position Sensor B Circuit Low Input (Bank 2)																	
0393	Camshaft Position Sensor B Circuit High Input (Bank 2)																	
0394	Camshaft Position Sensor B Circuit Intermittent (Bank 2)																	
0395																		
0396																		
0397																		
0398																		
0399																		
	Auxiliary Emission Controls																	
0400	Exhaust Gas Recirculation Flow	G*	g	g				M	J*	N								
0401	Exhaust Gas Recirculation Flow Insufficient Detected	G*						M*			E							
0402	Exhaust Gas Recirculation Flow Excessive Detected	G*		g						N	E*		e					
0403	Exhaust Gas Recirculation Control Circuit	G*		g										D				
0404	Exhaust Gas Recirculation Control Circuit Range/Performance							M						D				
0405	Exhaust Gas Recirculation Sensor A Circuit Low								J*									
0406	Exhaust Gas Recirculation Sensor A Circuit High								J*									
0407	Exhaust Gas Recirculation Sensor B Circuit Low																	
0408	Exhaust Gas Recirculation Sensor B Circuit High																	
0409	Exhaust Gas Recirculation Sensor A Circuit													D				
0410	Secondary Air Injection System							M										AIR SYS
0411	Secondary Air Injection Incorrect Upstream Flow Detected	G*		g					J*		E*		e					
0412	Secondary Air Injection Switching Valve A Circuit	G*	g	g				M			E*	e	e					
0413	Secondary Air Injection Switching Valve A Circuit Open	G*	g	g					J*		E*	e	e					
0414	Secondary Air Injection Switching Valve A Circuit Shorted	G*	g	g					J		E*	e	e					
0415	Secondary Air Injection Switching Valve B Circuit										E							
0416	Secondary Air Injection Switching Valve B Circuit Open	G*	g	g														
0417	Secondary Air Injection Switching Valve B Circuit Shorted	G*	g	g														
0418	Secondary Air Injection System Relay A Control Circuit																	
0419	Secondary Air Injection System Relay B Control Circuit																	
0420	Catalyst System Efficiency Below Threshold (Bank 1)	G*						M*	J*	N	E*							TWC-1
0421	Warm Up Catalyst Efficiency Below Threshold (Bank 1)							M*										WU-TWC-1
0422	Main Catalyst Efficiency Below Threshold (Bank 1)																	
0423	Heated Catalyst Efficiency Below Threshold (Bank 1)																	

Paul Baltusis
Diagnostic Systems Department

	OBD-II Diagnostic Trouble Code Definitions	North America								Europe				Australia			
	Chart indicates design-responsible software activity which implemented DTC. G=North American spark ignition, D=North American diesel, E= Europe, N=Nissan, J=Jaguar, U=Australian. Spark Ignition includes: Gasoline, FFV, NGV, LPG and bi-fuel conversions.	Spark Ignition			Diesel			Mazda	Jaguar	Nissan	Spark Ignition			Diesel	Spark Ignition			SAE J1930 Component/ System and I/O Type
	* = MIL illuminates, ^ = O/D Cancel flashes, [ ] = assigned but not used																	
	All DTCs preceded by P unless otherwise indicated. Capital and small letters are used for visual impact only! Mazda and Nissan DTCs are for reference. Ford P/T is not responsible for assigning these DTCs. Shading indicates change from previous version.	Continuous	KOEO	KOER	Continuous	KOEO	KOER				Continuous	KOEO	KOER		Continuous	KOEO	KOER	A = Analog D = Digital F = Frequency I = Input O = Output
0424	Heated Catalyst Temperature Below Threshold (Bank 1)																	
0425	Catalyst Temperature Sensor (Bank 1)																	
0426	Catalyst Temperature Sensor Range/Performance (Bank1)								J*									
0427	Catalyst Temperature Sensor Low Input (Bank 1)								J*									
0428	Catalyst Temperature Sensor High Input (Bank 1)								J*									
0429	Catalyst Heater Control Circuit (Bank 1)																	
0430	Catalyst System Efficiency Below Threshold (Bank 2)	G*						M*	J*		E*							TWC-2
0431	Warm Up Catalyst Efficiency Below Threshold (Bank 2)							M*										WU-TWC-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)																	
0435	Catalyst Temperature Sensor (Bank 2)																	
0436	Catalyst Temperature Sensor Range/Performance (Bank2)								J*									
0437	Catalyst Temperature Sensor Low Input (Bank 2)								J*									
0438	Catalyst Temperature Sensor High Input (Bank 2)								J*									
0439	Catalyst Heater Control Circuit (Bank 2)																	
0440	Evaporative Emission Control System	G*						M										EVAP SYS
0441	Evaporative Emission Control System Incorrect Purge Flow							M	J*									
0442	Evaporative Emission Control System Leak Detected (small leak)	G*						M*	J*									
0443	Evaporative Emission Control System Purge Control Valve Circuit	G*	g	g				M	J*		E*	e	e		U			VMV
0444	Evaporative Emission Control System Purge Control Valve Circuit Open							M	J*									
0445	Evaporative Emission Control System Purge Control Valve Circuit Shorted							M	J*									
0446	Evaporative Emission Control System Vent Control Circuit	G*						M	J*									
0447	Evaporative Emission Control System Vent Control Circuit Open																	
0448	Evaporative Emission Control System Vent Control Circuit Shorted																	
0449	Evaporative Emission Control System Vent Control Circuit Intermittent																	
0450	Evaporative Emission Control System Pressure Sensor							M										
0451	Evaporative Emission Control System Pressure Sensor Range/Performance	G*																
0452	Evaporative Emission Control System Pressure Sensor Low Input	G*	g	g				M	J*									FTPT
0453	Evaporative Emission Control System Pressure Sensor High Input	G*	g	g				M	J*									FTPT
0454	Evaporative Emission Control System Pressure Sensor Intermittent																	
0455	Evaporative Emission Control System Leak Detected (gross leak/no flow)	G*						M*										
0456	Evaporative Emission Control System Leak Detected (very small leak)	G*						M*										
0457	Evaporative Emission Control System Leak Detected (fuel cap loose/off)																	
0458																		
0459																		
0460	Fuel Level Sensor Circuit	G	g	g	D			M	J*		E	e	e					FLI
0461	Fuel Level Sensor Circuit Range/Performance	G*																
0462	Fuel Level Sensor Circuit Low Input																	
0463	Fuel Level Sensor Circuit High Input																	
0464	Fuel Level Sensor Circuit Intermittent																	
0465	EVAP Purge Flow Sensor Circuit																	
0466	EVAP Purge Flow Sensor Circuit Range/Performance																	
0467	EVAP Purge Flow Sensor Circuit Low Input																	
0468	EVAP Purge Flow Sensor Circuit High Input																	
0469	EVAP Purge Flow Sensor Circuit Intermittent																	
0470	Exhaust Pressure Sensor					d		M										EP
0471	Exhaust Pressure Sensor Range/Performance				D*													EP
0472	Exhaust Pressure Sensor Low Input				D*	d												EP
0473	Exhaust Pressure Sensor High Input				D*	d												EP
0474	Exhaust Pressure Sensor Intermittent																	EP
0475	Exhaust Pressure Control Valve				D*	d												
0476	Exhaust Pressure Control Valve Range/Performance						d											
0477	Exhaust Pressure Control Valve Low Input																	
0478	Exhaust Pressure Control Valve High Input				D*													
0479	Exhaust Pressure Control Valve Intermittent																	
0480	Cooling Fan 1 Control Circuit										E	e	e		U			FC-1
0481	Cooling Fan 2 Control Circuit										E	e	e		U			FC-2
0482	Cooling Fan 3 Control Circuit										E	e	e					FC-3
0483	Cooling Fan Rationality Check																	FC

	OBD-II Diagnostic Trouble Code Definitions	North America									Europe				Australia			
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	* = MIL illuminates, ^ = O/D Cancel flashes, [ ] = assigned but not used																	
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0484	Cooling Fan Over Current																	FC
0485	Cooling Fan Power/Ground Circuit																	FC
0486	Exhaust Gas Recirculation Sensor B Circuit													D				
0487	EGR Throttle Position Control Circuit													D				
0488	EGR Throttle Position Control Range/Performance													D				
0489																		
0490																		
0491	Secondary Air Injection System (bank 1)																	
0492	Secondary Air Injection System (bank 2)																	
0493																		
0494																		
0495																		
0496																		
0497																		
0498																		
0499																		
	Vehicle Speed Control, Idle Control and Auxiliary Inputs																	
0500	Vehicle Speed Sensor	G*			D*			M	J*	N	E*			D	U			VSS
0501	Vehicle Speed Sensor Range/Performance	G						M*										VSS
0502	Vehicle Speed Sensor Circuit Low Input																	VSS
0503	Vehicle Speed Sensor Intermittent	G^			D						E							VSS
0504																		
0505	Idle Control System			g				M*		N			e					IAC
0506	Idle Control System RPM Lower Than Expected							M*	J*						U			IAC
0507	Idle Control System RPM Higher Than Expected							M*	J*						U			IAC
0508	Idle Control System Circuit Low																	
0509	Idle Control System Circuit High																	
0510	Closed Throttle Position Switch							M*										CTP
0511																		
0512	Starter Request Circuit																	
0513	Incorrect Immobilizer Key																	
0514																		
0515	Battery Temperature Sensor Circuit													D				
0516	Battery Temperature Sensor Circuit Low																	
0517	Battery Temperature Sensor Circuit High																	
0518																		
0519																		
0520	Engine Oil Pressure Sensor/Switch Circuit																	EOP
0521	Engine Oil Pressure Sensor/Switch Circuit Range/Performance																	EOP
0522	Engine Oil Pressure Sensor/Switch Circuit Low Input																	EOP
0523	Engine Oil Pressure Sensor/Switch Circuit High Input																	EOP
0524	Engine Oil Pressure Too Low																	EOP
0525																		
0526																		
0527																		
0528																		
0529																		
0530	A/C Refrigerant Pressure Sensor Circuit																	A/CRP
0531	A/C Refrigerant Pressure Sensor Circuit Range/Performance														U			A/CRP
0532	A/C Refrigerant Pressure Sensor Circuit Low Input														U			A/CRP
0533	A/C Refrigerant Pressure Sensor Circuit High Input														U			A/CRP
0534	A/C Refrigerant Charge Loss														U			
0535																		
0536																		
0537																		
0538																		
0539																		
0540	Intake Air Heater Circuit																	
0541	Intake Air Heater Circuit Low				D		d											

	OBD-II Diagnostic Trouble Code Definitions	North America								Europe				Australia			
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0542	Intake Air Heater Circuit High				D		d											
0543																		
0544	Exhaust Gas Temperature Sensor Circuit - Bank 1																	
0545	Exhaust Gas Temperature Sensor Circuit Low - Bank 1																	
0546	Exhaust Gas Temperature Sensor Circuit High - Bank 1																	
0547	Exhaust Gas Temperature Sensor Circuit - Bank 2																	
0548	Exhaust Gas Temperature Sensor Circuit Low - Bank 2																	
0549	Exhaust Gas Temperature Sensor Circuit High - Bank 2																	
0550	Power Steering Pressure Sensor Circuit																	PSP [AI]
0551	Power Steering Pressure Sensor Circuit Range/Performance							M*										PSP [AI]
0552	Power Steering Pressure Sensor Circuit Low Input	G		g														PSP [AI]
0553	Power Steering Pressure Sensor Circuit High Input	G		g														PSP [AI]
0554	Power Steering Pressure Sensor Circuit Intermittent																	PSP [AI]
0555																		
0556																		
0557																		
0558																		
0559																		
0560	System Voltage						d		J*									
0561	System Voltage Unstable																	
0562	System Voltage Low				D*	d									U			
0563	System Voltage High				D	d												
0564	Cruise Control Multi-Function Input Signal																	
0565	Cruise Control ON Signal	G				d			J									
0566	Cruise Control OFF Signal	G				d			J									
0567	Cruise Control RESUME Signal	G				d			J									
0568	Cruise Control SET Signal	G				d			J									
0569	Cruise Control COAST Signal	G				d			J									
0570	Cruise Control ACCEL Signal	G			D				J									
0571	Cruise Control Brake Switch A Circuit	G				d		M*	J									
0572	Cruise Control Brake Switch A Circuit Low																	
0573	Cruise Control Brake Switch A Circuit High																	
0574	Cruise Control System - Vehicle Speed Too High																	
0575	Cruise Control Input Circuit													D				
0576	Cruise Control Input Circuit Low																	
0577	Cruise Control Input Circuit High																	
0578																		
0579																		
0580																		
0581																		
0582																		
0583																		
0584																		
0585																		
0586																		
0587																		
0588																		
0589																		
0590																		
0591																		
0592																		
0593																		
0594																		
0595																		
0596																		
0597																		
0598																		
0599																		
	Computer and Auxiliary Outputs																	
0600	Serial Communication Link									N								

Paul Baltusis
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	OBD-II Diagnostic Trouble Code Definitions	North America									Europe				Australia			
	Chart indicates design-responsible software activity which implemented DTC. G=North American spark ignition, D=North American diesel, E= Europe, N=Nissan, J=Jaguar, U=Australian. Spark Ignition includes: Gasoline, FFV, NGV, LPG and bi-fuel conversions.	Spark Ignition			Diesel			Mazda	Jaguar	Nissan	Spark Ignition			Diesel	Spark Ignition			SAE J1930 Component/ System and I/O Type
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0601	Internal Control Module Memory Check Sum Error							M										
0602	Powertrain Control Module Programming Error	G	g	g														
0603	Powertrain Control Module Keep Alive Memory (KAM) Error		g			d		M	J*			e			U			KAM
0604	Powertrain Control Module Random Access Memory (RAM) Error																	RAM
0605	Powertrain Control Module Read Only Memory (ROM) Error		g			d		M	J	N		e			U			ROM
0606	ECM/PCM Processor					d								D	U			PCM
0607	Control Module Performance																	
0608	Powertrain Control Module Vehicle Speed Output A																	
0609	Powertrain Control Module Vehicle Speed Output B																	
0610	Control Module Vehicle Options Error																	
0611	Fuel Injector Control Module Performance																	
0612	Fuel Injector Control Module Relay Control Circuit																	
0613																		
0614																		
0615	Starter Relay Circuit																	
0616	Starter Relay Circuit Low																	
0617	Starter Relay Circuit High																	
0618	Alternative Fuel Control Module KAM Error																	
0619	Alternative Fuel Control Module RAM/ROM Error																	
0620	Generator Control Circuit																	
0621	Generator L Terminal Control Circuit																	
0622	Generator F Terminal Control Circuit																	
0623	Generator Lamp Control Circuit													D				
0624	Fuel Cap Lamp Control Circuit																	
0625																		
0626																		
0627																		
0628																		
0629																		
0630	VIN Not Programmed or Mismatch - ECM/PCM																	
0631	VIN Not Programmed or Mismatch - TCM																	
0632																		
0633																		
0634																		
0635	Power Steering Control Circuit																	
0636	Power Steering Control Circuit Low																	
0637	Power Steering Control Circuit High																	
0638	Throttle Actuator Control Range/Performance - Bank 1																	
0639	Throttle Actuator Control Range/Performance - Bank 2																	
0640	Intake Air Heater Control Circuit				D	d	d											
0641																		
0642																		
0643																		
0644																		
0645	A/C Clutch Relay Control Circuit													D				A/CCR
0646	A/C Clutch Relay Control Circuit Low																	
0647	A/C Clutch Relay Control Circuit High																	
0648	Immobilizer Lamp Control Circuit													D				
0649	Cruise Control Lamp Control Circuit													D				
0650	Malfunction Indicator Light Control Circuit													D				MIL
0651																		
0652																		
0653																		
0654	Engine RPM Output Circuit																	
0655	Engine Hot Lamp Output Control Circuit																	
0656	Fuel level Output Circuit																	
0657																		
0658																		
0659																		
0660	Intake Manifold Tuning Valve Control Circuit - Bank 1							M*										

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0661	Intake Manifold Tuning Valve Control Circuit Low - Bank 1							M*										
0662	Intake Manifold Tuning Valve Control Circuit High - Bank 1							M*										
0663	Intake Manifold Tuning Valve Control Circuit - Bank 2																	
0664	Intake Manifold Tuning Valve Control Circuit Low - Bank 2																	
0665	Intake Manifold Tuning Valve Control Circuit High - Bank 2																	
0666																		
0667																		
0668																		
0669																		
0670	Glow Plug Module Control Circuit				D*													
0671	Cylinder 1 Glow Plug Circuit				D*													
0672	Cylinder 2 Glow Plug Circuit				D*													
0673	Cylinder 3 Glow Plug Circuit				D*													
0674	Cylinder 4 Glow Plug Circuit				D*													
0675	Cylinder 5 Glow Plug Circuit				D*													
0676	Cylinder 6 Glow Plug Circuit				D*													
0677	Cylinder 7 Glow Plug Circuit				D*													
0678	Cylinder 8 Glow Plug Circuit				D*													
0679	Reserve for future glow plugs 9-12																	
0680	Reserve for future glow plugs 9-12																	
0681	Reserve for future glow plugs 9-12																	
0682	Reserve for future glow plugs 9-12																	
0683	Glow Plug Control Module to PCM Communication Circuit				D*													
0684	Glow Plug Control Module to PCM Communication Circuit Range/Performance				D*													
0685																		
0686																		
0687																		
0688																		
0689																		
0690																		
0691																		
0692																		
0693																		
0694																		
0695																		
0696																		
0697																		
0698																		
0699																		
	Transmission																	
0700	Transmission Control System (MIL Request)	G									E							
0701	Transmission Control System Range/Performance																	
0702	Transmission Control System Electrical								J*		E							
0703	Brake Switch B Input Circuit	G					d	M										
0704	Clutch Switch Input Circuit	G			D		d	M*			E							
0705	Transmission Range Sensor Circuit (PRNDL Input)	G*	g		D*	d		M*		N								TR
0706	Transmission Range Sensor Circuit Range/Performance							M*	J*						U			TR
0707	Transmission Range Sensor Circuit Low Input	G*			D*			M							U			TR
0708	Transmission Range Sensor Circuit High Input	G*	g		D*	d		M							U			TR
0709	Transmission Range Sensor Circuit Intermittent																	TR
0710	Transmission Fluid Temperature Sensor Circuit							M*	J*	N					U			TFT
0711	Transmission Fluid Temperature Sensor Circuit Range/Performance							M*										TFT
0712	Transmission Fluid Temperature Sensor Circuit Low Input	G^	g	g	D	d	d	M							U			TFT
0713	Transmission Fluid Temperature Sensor Circuit High Input	G^	g	g	D	d	d	M							U			TFT
0714	Transmission Fluid Temperature Sensor Circuit Intermittent																	TFT
0715	Turbine Shaft Speed Sensor Circuit	G*		g	D*			M*	J*									TSS
0716	Turbine Shaft Speed Sensor Circuit Range/Performance																	TSS
0717	Turbine Shaft Speed Sensor Circuit No Signal	G																TSS
0718	Turbine Shaft Speed Sensor Circuit Intermittent	G^																TSS
0719	Brake Switch B Input Circuit Low																	

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0720	Output Shaft Speed Sensor Circuit	G*			D*			M		N	E*							OSS
0721	Output Shaft Speed Sensor Circuit Range/Performance	G^									E							OSS
0722	Output Shaft Speed Sensor Circuit No Signal	G						M			E							OSS
0723	Output Shaft Speed Sensor Circuit Intermittent	G																OSS
0724	Brake Switch B Input Circuit High																	
0725	Engine Speed Input Circuit							M		N	E							RPM
0726	Engine Speed Input Circuit Range/Performance																	RPM
0727	Engine Speed Input Circuit No Signal																	RPM
0728	Engine Speed Input Circuit Intermittent																	RPM
0729																		
0730	Incorrect Gear Ratio							M										
0731	Gear 1 Incorrect Ratio	G^			D			M		N								1GR
0732	Gear 2 Incorrect Ratio	G^			D			M		N								2GR
0733	Gear 3 Incorrect Ratio	G^			D			M		N								3GR
0734	Gear 4 Incorrect Ratio	G^						M		N								4GR
0735	Gear 5 Incorrect Ratio	G^																5GR
0736	Reverse Incorrect Ratio																	
0737	TCM Engine Speed Output Circuit																	
0738	TCM Engine Speed Output Circuit Low																	
0739	TCM Engine Speed Output Circuit High																	
0740	Torque Converter Clutch Solenoid Circuit	G^		g	D		d	M		N								TCC
0741	Torque Converter Clutch Solenoid Circuit Performance Or Stuck Off	G^			D			M	J*									TCC
0742	Torque Converter Clutch Solenoid Circuit Stuck On								J*									TCC
0743	Torque Converter Clutch Solenoid Circuit Electrical	G*	g		D*	d		M	J*						U			TCC
0744	Torque Converter Clutch Solenoid Circuit Intermittent																	TCC
0745	Pressure Control Solenoid A	G*						M*		N								PC-A
0746	Pressure Control Solenoid A Performance or Stuck Off	G*																PC-A
0747	Pressure Control Solenoid A Stuck On																	PC-A
0748	Pressure Control Solenoid A Electrical														U			PC-A
0749	Pressure Control Solenoid A Intermittent																	PC-A
0750	Shift Solenoid A	G*	g		D*	d		M		N								SS-A [DO]
0751	Shift Solenoid A Performance or Stuck Off	G*			D			M*										SS-A [DO]
0752	Shift Solenoid A Stuck On							M*										SS-A [DO]
0753	Shift Solenoid A Electrical	G^		g	D		d	M*	J*						U			SS-A [DO]
0754	Shift Solenoid A Intermittent																	SS-A [DO]
0755	Shift Solenoid B	G*	g		D*	d		M		N								SS-B [DO]
0756	Shift Solenoid B Performance or Stuck Off	G*			D			M*										SS-B [DO]
0757	Shift Solenoid B Stuck On							M*										SS-B [DO]
0758	Shift Solenoid B Electrical	G^		g	D		d	M*	J*						U			SS-B [DO]
0759	Shift Solenoid B Intermittent																	SS-B [DO]
0760	Shift Solenoid C	G*	g		D	d		M										SS-C [DO]
0761	Shift Solenoid C Performance or Stuck Off	G*						M*										SS-C [DO]
0762	Shift Solenoid C Stuck On							M*										SS-C [DO]
0763	Shift Solenoid C Electrical	G^		g	D		d	M*	J*						U			SS-C [DO]
0764	Shift Solenoid C Intermittent																	SS-C [DO]
0765	Shift Solenoid D	G*	g															SS-D [DO]
0766	Shift Solenoid D Performance or Stuck Off	G*						M*										SS-D [DO]
0767	Shift Solenoid D Stuck On							M*										SS-D [DO]
0768	Shift Solenoid D Electrical	G^		g	D		d	M*							U			SS-D [DO]
0769	Shift Solenoid D Intermittent																	SS-D [DO]
0770	Shift Solenoid E	G*	g															SS-E [DO]
0771	Shift Solenoid E Performance or Stuck Off	G*						M*										SS-E [DO]
0772	Shift Solenoid E Stuck On							M*										SS-E [DO]
0773	Shift Solenoid E Electrical	G^		g	D		d	M*										SS-E [DO]
0774	Shift Solenoid E Intermittent																	SS-E [DO]
0775	Pressure Control Solenoid B	G*																PC-B
0776	Pressure Control Solenoid B Performance or Stuck Off																	PC-B
0777	Pressure Control Solenoid B Stuck On																	PC-B
0778	Pressure Control Solenoid B Electrical														U			PC-B
0779	Pressure Control Solenoid B Intermittent	G																PC-B

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0780	Shift Malfunction																	
0781	1-2 Shift	G^			D^													
0782	2-3 Shift	G^			D^													
0783	3-4 Shift	G^			D^													
0784	4-5 Shift																	
0785	Shift/Timing Solenoid																	
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	G							J									
0791	Intermediate Shaft Speed Sensor Circuit	G		g														ISS
0792	Intermediate Shaft Speed Sensor Circuit Range/Performance																	ISS
0793	Intermediate Shaft Speed Sensor Circuit No Signal																	ISS
0794	Intermediate Shaft Speed Sensor Circuit Intermittent	G^																ISS
0795	Pressure Control Solenoid C	G*																PC-C
0796	Pressure Control Solenoid C Performance or Stuck Off	G*	g															PC-C
0797	Pressure Control Solenoid C Stuck On	G*	g															PC-C
0798	Pressure Control Solenoid C Electrical																	PC-C
0799	Pressure Control Solenoid C Intermittent	G																PC-C
	Transmission																	
0800																		
0801	Reverse Inhibit Control Circuit																	
0802																		
0803	1-4 Upshift (skip shift) Solenoid Circuit																	
0804	1-4 Upshift (skip shift) Lamp Control Circuit																	
0805	Clutch Position Sensor Circuit										E							CP
0806	Clutch Position Sensor Circuit Range/Performance																	CP
0807	Clutch Position Sensor Circuit Low																	CP
0808	Clutch Position Sensor Circuit High																	CP
0809	Clutch Position Sensor Circuit Intermittent																	CP
0810	Clutch Position Control Error										E							
0811	Excessive Clutch Slippage										E							
0812	Reverse Input Circuit	G																
0813	Reverse Output Circuit																	
0814	Transmission Range Display Circuit	G																
0815	Upshift Switch Circuit	G																
0816	Downshift Switch Circuit	G																
0817	Starter Disable Circuit										E			D				
0818	Driveline Disconnect Switch Input Circuit		g															
0819																		
0820	Gear Lever X-Y Position Sensor Circuit																	
0821	Gear Lever X Position Sensor Circuit										E							
0822	Gear Lever Y Position Sensor Circuit										E							
0823	Gear Lever X Position Sensor Circuit Intermittent																	
0824	Gear Lever Y Position Sensor Circuit Intermittent																	
0825	Gear Lever Push/Pull Switch Circuit (Shift Anticipate)										E							
0826																		
0827																		
0828																		
0829																		
0830	Clutch Pedal Switch A Circuit																	
0831	Clutch Pedal Switch A Circuit Low																	
0832	Clutch Pedal Switch A Circuit High																	
0833	Clutch Pedal Switch B Circuit																	
0834	Clutch Pedal Switch B Circuit Low																	
0835	Clutch Pedal Switch B Circuit High																	
0836	Four Wheel Drive (4WD) Switch Circuit																	
0837	Four Wheel Drive (4WD) Switch Circuit Range/Performance																	
0838	Four Wheel Drive (4WD) Switch Circuit Low																	

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0839	Four Wheel Drive (4WD) Switch Circuit High																	
0840	Transmission Fluid Pressure Sensor/Switch A Circuit	G	g	g														
0841	Transmission Fluid Pressure Sensor/Switch A Circuit Range/Performance							M										
0842	Transmission Fluid Pressure Sensor/Switch A Circuit Low																	
0843	Transmission Fluid Pressure Sensor/Switch A Circuit High																	
0844	Transmission Fluid Pressure Sensor/Switch A Circuit Intermittent	G																
0845	Transmission Fluid Pressure Sensor/Switch B Circuit																	
0846	Transmission Fluid Pressure Sensor/Switch B Circuit Range/Performance							M										
0847	Transmission Fluid Pressure Sensor/Switch B Circuit Low																	
0848	Transmission Fluid Pressure Sensor/Switch B Circuit High																	
0849	Transmission Fluid Pressure Sensor/Switch B Circuit Intermittent																	
0850																		
1000	OBD Systems Readiness Test Not Complete	G	g	g	D	d	d	M	J		E	e	e					
1001	KOER Not Able to Complete, KOER Aborted			g				M					e					
1100	Mass Air Flow Sensor Circuit Intermittent	G						M			E							MAF
1101	Mass Air Flow Sensor Out Of Self Test Range		g	g				M				e	e					MAF
1102	Mass Air Flow Sensor In Range But Lower Than Expected							M*										MAF
1103	Mass Air Flow Sensor In Range But Higher Than Expected							M*										MAF
1104	Mass Air Flow Sensor Circuit Ground								J*									MAF
1105	Dual Alternator Upper Fault				D													
1106	Dual Alternator Lower Fault				D													
1107	Dual Alternator Lower Circuit				D*													
1108	Dual Alternator Battery Lamp Circuit				D													
1109	Intake Air Temperature B Circuit Intermittent	G																IAT-B
1110	Intake Air Temperature Circuit (D/C) Open/Short							M										
1111	System Pass				D	d	d		J									
1112	Intake Air Temperature Circuit Intermittent	G						M			E							IAT
1113	Intake Air Temperature Circuit (L/C) Open/Short							M										
1114	Intake Air Temperature B Circuit Low Input (Super/Turbo Charged engines)	G*	g	g														IAT-B
1115	Intake Air Temperature B Circuit High Input (Super/Turbo Charged engines)	G*	g	g														IAT-B
1116	Engine Coolant Temperature Sensor Out Of Self Test Range		g	g				M				e	e					ECT
1117	Engine Coolant Temperature Sensor Circuit Intermittent	G						M			E							ECT
1118	Manifold Air Temperature Circuit Low Input				D*	d												
1119	Manifold Air Temperature Circuit High Input				D*	d												
1120	Throttle Position Sensor A Out Of Range Low (Ratch too low)	G*	g	g							E*	g	g					TP-A
1121	Throttle Position Sensor A Inconsistent With Mass Air Flow Sensor	G*									E							TP-A
1121	Pedal Position Sensor A Circuit Range/Performance							M	J									
1122	Throttle Position Sensor A In Range But Lower Than Expected							M*										
1122	Pedal Position Sensor A Circuit Low Input	G	g	g					J									PP-A
1123	Throttle Position Sensor A In Range But Higher Than Expected							M*										
1123	Pedal Position Sensor A Circuit High Input	G	g	g					J									PP-A
1124	Throttle Position Sensor A Out Of Self Test Range		g	g								e	e					TP-A
1125	Throttle Position Sensor A Intermittent	G						M			E				U			TP-A
1126	Throttle Position (Narrow Range) Sensor Circuit							M										
1127	Exhaust Not Warm, Downstream O2 Sensor Not Tested			g									e					HO2Sxx
1128	Upstream HO2S Sensors Swapped			g				M										HO2Sx1
1129	Downstream HO2S Sensors Swapped			g				M										HO2Sx2
1130	Lack Of HO2S11 Switches - Fuel Trim At Limit	G*						M			E*							HO2S11
1131	Lack Of HO2S11 Switches - Sensor Indicates Lean	G*		g				M			E*		e					HO2S11
1132	Lack Of HO2S11 Switches - Sensor Indicates Rich	G*		g				M			E*		e					HO2S11
1133	Bank 1 Fuel Control Shifted Lean (FAOSC)	[G*]						M										
1134	Bank 1 Fuel Control Shifted Rich (FAOSC)	[G*]						M										
1135	Pedal Position Sensor A Circuit Intermittent	G	g	g														PP-A
1135	HO2S11 Heater Circuit Low							M										
1136	Control Box Fan Circuit								J									
1136	HO2S11 Heater Circuit High							M										
1137	Lack Of HO2S12 Switches - Sensor Indicates Lean			g				M	J				e					HO2S12
1138	Lack Of HO2S12 Switches - Sensor Indicates Rich			g				M	J				e					HO2S12
1139	Water in Fuel Indicator Circuit					d												

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1140	Water in Fuel Condition				D													
1141	Fuel Restriction Indicator Circuit				D													
1141	HO2S12 Heater Circuit Low							M										
1142	Fuel Restriction Condition				D													
1142	HO2S12 Heater Circuit High							M										
1143	Air Assisted Injector Control Valve Range/Performance								J*									
1143	Lack of HO2S Switches, HO2S13 Indicates Lean							M										
1144	Air Assisted Injector Control Valve Circuit								J*									
1144	Lack of HO2S Switches, HO2S13 Indicates Rich							M										
1145																		
1146																		
1147																		
1148																		
1149																		
1150	Lack Of HO2S21 Switches - Fuel Trim At Limit	G*						M			E*							HO2S21
1151	Lack Of HO2S21 Switches - Sensor Indicates Lean	G*		g				M			E*		e					HO2S21
1152	Lack Of HO2S21 Switches - Sensor Indicates Rich	G*		g				M			E*		e					HO2S21
1153	Bank 2 Fuel Control Shifted Lean (FAOSC)	[G*]						M										
1154	Bank 2 Fuel Control Shifted Rich (FAOSC)	[G*]						M										
1155	Alternative Fuel Control Module Has Activated the MIL	G																
1156	Fuel Select Switch Circuit														U			
1157	Lack Of HO2S22 Switches - Sensor Indicates Lean			g					J				e					HO2S22
1158	Lack Of HO2S22 Switches - Sensor Indicates Rich			g					J				e					HO2S22
1159	Fuel Stepper Motor														U			
1160																		
1161																		
1162																		
1163																		
1164																		
1165																		
1166																		
1167	Invalid Test, Operator Did Not Actuate Throttle														U			
1168	Fuel Rail Pressure Sensor In Range But Low	G																
1169	Fuel Rail Pressure Sensor In Range But High	G																
1169	Feedback A/F Mixture Control (HO2S12)							M										
1170	Feedback A/F Mixture Control (HO2S11)							M										
1170	Engine Shut Off Solenoid				D													
1171	System Too Lean - Banks 1 and 2 (Lean Fuel Fault)								J									
1171	Rotor Sensor				D													
1172	System Too Rich - Banks 1 and 2 (Rich Fuel Fault)								J									
1172	Rotor Control				D													
1173	Feedback A/F Mixture Control (HO2S21)							M										
1173	Rotor Calibration				D													
1174	System Too Lean - Banks 1 and 2 (Suspect HO2S)								J									
1174	Cam Sensor				D													
1175	System Too Rich - Banks 1 and 2 (Suspect HO2S)								J									
1175	Cam Control				D													
1176	Long Term Fuel Trim Too Lean - Banks 1 and 2 (FMFR)								J									
1176	Cam Calibration				D													
1177	Long Term Fuel Trim Too Rich - Banks 1 and 2 (FMFR)								J									
1177	Synchronization				D													
1178	Long Term Fuel Trim Too Lean - Banks 1 and 2 (AMFR)								J									
1178	Boltup Limits				D													
1179	Long Term Fuel Trim Too Rich - Banks 1 and 2 (AMFR)								J									
1180	Fuel Delivery System - Low	G																
1181	Fuel Delivery System - High	G																
1182	Fuel Shut Off Solenoid Circuit							M							U			
1183	Engine Oil Temperature Sensor Circuit	G*																EOT
1184	Engine Oil Temperature Sensor Out Of Self Test Range	G*	g	g			d											EOT
1185	O2 Sensor Heater Circuit Open - Hardware Fault								J									

	OBD-II Diagnostic Trouble Code Definitions	North America								Europe				Australia			
	Chart indicates design-responsible software activity which implemented DTC. G=North American spark ignition, D=North American diesel, E= Europe, N=Nissan, J=Jaguar, U=Australian. Spark Ignition includes: Gasoline, FFV, NGV, LPG and bi-fuel conversions.	Spark Ignition			Diesel			Mazda	Jaguar	Nissan	Spark Ignition			Diesel	Spark Ignition			SAE J1930 Component/ System and I/O Type
	* = MIL illuminates, ^ = O/D Cancel flashes, [ ] = assigned but not used																	
	All DTCs preceded by P unless otherwise indicated. Capital and small letters are used for visual impact only! Mazda and Nissan DTCs are for reference. Ford P/T is not responsible for assigning these DTCs. Shading indicates change from previous version.	Continuous	KOEO	KOER	Continuous	KOEO	KOER				Continuous	KOEO	KOER		Continuous	KOEO	KOER	A = Analog D = Digital F = Frequency I = Input O = Output
1185	Fuel Pump Temperature Sensor High				D													
1186	O2 Sensor Heater Circuit Shorted - Hardware Fault								J									
1186	Fuel Pump Temperature Sensor Low				D													
1187	O2 Sensor Heater Circuit Open - Inferred Fault								J									
1187	Variant Selection				D													
1188	O2 Sensor Heater Circuit Resistance								J									
1188	Calibration Memory				D													
1189	O2 Sensor Heater Circuit Low Resistance Fault 1								J									
1189	Pump Speed Signal				D			M										
1190	O2 Sensor Heater Circuit Low Resistance Fault 2								J									
1190	Calibration Resistor Out Of Range				D			M										
1191	O2 Sensor Heater Circuit Open - Hardware Fault								J									
1191	Key Line Voltage				D													
1191	TP (controlled) circuit							M										
1192	O2 Sensor Heater Circuit Shorted								J									
1192	V External				D													
1193	O2 Sensor Heater Circuit Open - Inferred Fault								J									
1193	EGR Driver Over Current				D													
1194	O2 Sensor Heater Circuit Resistance Fault								J									
1194	ECM/PCM A/D Converter				D			M										
1195	O2 Sensor Heater Circuit Low Resistance Fault 1								J									
1195	SCP HBCC Chip Failed to Initialize				D													
1195	BARO Sensor Circuit							M										
1196	O2 Sensor Heater Circuit Low Resistance Fault 2								J									
1196	Key Off Voltage High				D													
1196	Starter Switch Circuit							M*										
1197	Mileage Switch Circuit							M										
1197	Key Off Voltage Low				D													
1198	Fuel Level Input Circuit High								J									
1198	Pump Rotor Control Underfueling				D													
1199	Fuel Level Input Circuit Low								J									
1200																		
1201	Cylinder #1 Injector Circuit Open/Shorted								J									INJ-1
1202	Cylinder #2 Injector Circuit Open/Shorted								J									INJ-2
1203	Cylinder #3 Injector Circuit Open/Shorted								J									INJ-3
1204	Cylinder #4 Injector Circuit Open/Shorted								J									INJ-4
1205	Cylinder #5 Injector Circuit Open/Shorted								J									INJ-5
1206	Cylinder #6 Injector Circuit Open/Shorted								J									INJ-6
1207	Cylinder #7 Injector Circuit Open/Shorted								J									INJ-7
1208	Cylinder #8 Injector Circuit Open/Shorted								J									INJ-8
1209	Injector Control Pressure Peak Delta Test Fault				D*													
1210	Injector Control Pressure Above Expected Level				D*	d												
1211	Injector Control Pressure Above/Below Desired				D*	d	d											
1212	Injector Control Pressure Not At Expected Level				D	d												
1213	Start Injector Circuit							M										
1214	Pedal Position Sensor B Circuit Intermittent	G	g	g														PP-B
1215	Pedal Position Sensor C Circuit Low Input	G	g	g														PP-C
1216	Pedal Position Sensor C Circuit High Input	G	g	g														PP-C
1217	Pedal Position Sensor C Circuit Intermittent	G	g	g														PP-C
1218	CID High				D	d												
1219	CID Low				D	d												
1220	Series Throttle Control System	G	g	g														
1221	Traction Control System	[G]	[g]	[g]				M							U			
1221	Pedal Demand Sensor B Circuit Range/Performance								J									
1222	Traction Control Output Circuit	[G]						M										
1222	Pedal Position Sensor B Circuit Low Input	G	g	g														PP-B
1223	Pedal Position Sensor B Circuit High Input	G	g	g														PP-B
1223	Redundant Emergency Stop										E							
1224	Throttle Position Sensor B Out Of Self Test Range		g	g														TP-B
1224	Electronic Throttle Control Position Error								J*									

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	OBD-II Diagnostic Trouble Code Definitions	North America								Europe				Australia			
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1225	Needle Lift Sensor										E							
1226	Control Sleeve Sensor Circuit							M			E							
1226	Mechanical Guard Circuit Range/Performance								J*									
1227	Timing Governor										E							
1227	Wastegate Failed Closed (Over pressure)	G*																TCWGS
1227	Mechanical Guard Circuit Low Input								J*									
1228	Wastegate Failed Open (Under pressure)	G*																TCWGS
1228	Vehicle Speed Governor										E							
1228	Mechanical Guard Circuit High Input								J*									
1229	Charge Air Cooler Pump Driver	G	g	g														CAC
1229	Pump Timing Actuator										E							
1229	Electronic Throttle Control Circuit								J*									
1230	Fuel Pump Low Speed Malfunction (VLCM)	G	g															FP-VLCM
1230	Fuel Pump Relay								J*									
1231	Fuel Pump Secondary Circuit Low, High Speed (VLCM)	G	g															FP-VLCM
1232	Fuel Pump Speed Primary Circuit (Two speed fuel pump)	G		g														FP
1233	Fuel Pump Driver Module Disabled or Off Line (Fuel Pump Driver Module)	G*	g	g														FP-FPDM
1234	Fuel Pump Driver Module Disabled or Off Line (Fuel Pump Driver Module)	G	g	g														FP-FPDM
1235	Fuel Pump Control out Of Range (Fuel Pump Driver Module/VLCM)	G*		g														FP-FPDM/VLCM
1235	VSV 1/2/3 Circuit Range/Performance								J									
1236	Fuel Pump Control Out Of Range (Fuel Pump Driver Module)	G		g														FP-FPDM/VLCM
1236	VSV 1 Circuit								J									
1237	Fuel Pump Secondary Circuit (Fuel Pump Driver Module)	G*		g														FP-FPDM
1237	VSV 2 Circuit								J									
1238	Fuel Pump Secondary Circuit (Fuel Pump Driver Module)	G		g														FP-FPDM
1238	VSV 3 Circuit								J									
1239	Speed Fuel Pump Positive Feed	G																
1240	Sensor Power Supply								J									
1241	Sensor Power Supply Low Input								J									
1242	Sensor Power Supply High Input								J									
1243	Second Fuel Pump Fault or Ground Fault	G*																
1243	Analog Ground								J*									
1244	Alternator Load High Input	G		g							E		e					
1245	Alternator Load Low Input	G		g							E		e					
1245	Crank Signal Low Input								J*									
1246	Alternator Load Input	G		g							E		e	D				
1246	Crank Signal High Input								J*									
1247	Turbo Boost Pressure Low				D*													
1248	Turbo Boost Pressure Not Detected				D*			M										
1249	Wastegate Control Valve Performance				D*													
1250	Fuel Pressure Regulator Control Solenoid							M										
1250	Throttle Valve Spring								J									
1251	Air Mixture Solenoid Circuit							M										
1251	Throttle Position								J									
1252	Pedal Correlation PDS1 and LPDS High				D													
1252	VSV stuck on VA/VV								J									
1253	Pedal Correlation PDS1 and LPDS Low				D													
1253	VSV Stuck on VR								J									
1254	Pedal Correlation PDS2 and LPDS High				D													
1255	Pedal Correlation PDS2 and LPDS Low				D													
1256	Pedal Correlation PDS1 and HPDS				D													
1257	Pedal Correlation PDS2 and HPDS				D													
1258	Pedal Correlation PDS1 and PDS2				D													
1259	Immobilizer to PCM Signal Error										E				U			
1260	Theft Detected, Vehicle Immobilized	G							J		E				U			
1261	Cylinder #1 High To Low Side Short				D	d												
1262	Cylinder #2 High To Low Side Short				D	d												
1263	Cylinder #3 High To Low Side Short				D	d												
1264	Cylinder #4 High To Low Side Short				D	d												
1265	Cylinder #5 High To Low Side Short				D	d												

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	OBD-II Diagnostic Trouble Code Definitions	North America								Europe				Australia			
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1266	Cylinder #6 High To Low Side Short				D	d												
1267	Cylinder #7 High To Low Side Short				D	d												
1268	Cylinder #8 High To Low Side Short				D	d												
1269	Immobilizer Code Not Programmed														U			
1270	Engine RPM or Vehicle Speed Limiter Reached	G						M			E							
1271	Cylinder #1 High To Low Side Open				D	d												
1272	Cylinder #2 High To Low Side Open				D	d												
1273	Cylinder #3 High To Low Side Open				D	d												
1274	Cylinder #4 High To Low Side Open				D	d												
1275	Cylinder #5 High To Low Side Open				D	d												
1276	Cylinder #6 High To Low Side Open				D	d												
1277	Cylinder #7 High To Low Side Open				D	d												
1278	Cylinder #8 High To Low Side Open				D	d												
1279	Control Sleeve Sensor Circuit Range/Performance							M										
1280	Injector Control Pressure Out of Range Low				D*	d												
1281	Injector Control Pressure Out of Range High				D*	d												
1282	Excessive Injector Control Pressure				D*		d											
1283	Injector Pressure Regulator Circuit					d												
1284	Aborted KOER - Injector Control Pressure Failure						d											
1285	Cylinder Head Overtemperature Condition	G	g	g							E	e	e					CHT
1286	Fuel Pulsewidth In Range But Lower Than Expected	G																
1287	Fuel Pulsewidth In Range But Higher Than Expected	G																
1288	Cylinder Head Temperature Sensor Out Of Self Test Range		g	g								e	e	D				CHT
1289	Cylinder Head Temperature Sensor Circuit High Input	G	g	g							E*	e	e					CHT
1290	Cylinder Head Temperature Sensor Circuit Low Input	G	g	g							E*	e	e					CHT
1291	Injector High Side Short To GND Or VBATT - Bank 1				D	d												
1292	Injector High Side Short To GND Or VBATT - Bank 2				D	d												
1293	Injector High Side Open - Bank 1				D	d												
1294	Injector High Side Open - Bank 2				D	d												
1295	Injector Multiple Faults - Bank 1				D*	d												
1296	Injector Multiple Faults - Bank 2				D*	d												
1297	Injector High Side Switches Shorted Together				D	d												
1298	Injector Driver Module Failure				D	d		M										
1299	Cylinder Head Overtemperature Protection Active	G*									E*							CHT
1300	Boost Calibration Fault				D													
1301	Boost Calibration High				D													
1302	Boost Calibration Low				D													
1303	Exhaust Gas Recirculation Calibration Fault				D													
1304	Exhaust Gas Recirculation Calibration High				D													
1305	Exhaust Gas Recirculation Calibration Low				D													
1306	Kickdown Relay Pull-in Circuit				D													
1307	Kickdown Relay Hold Circuit				D													
1308	A/C Clutch Circuit																	
1309	Misfire Monitor Hardware - CMP Misaligned, CKP/CMP Noise, PCM AICE Chip	G*																
1310	Ionization Misfire Detection Module Fault	G*		g														
1311	Ionization Misfire Detection Module Communication Fault	G*		g														
1312	Injection Pump Timing Actuator Circuit							M										
1313	Misfire Rate Catalyst Damage Fault - Bank 1								J									
1314	Misfire Rate Catalyst Damage Fault - Bank 2								J									
1315	Persistent Misfire								J									
1316	IDM Codes Detected				D*	d												
1316	Misfire Rate Exceeds Emissions								J									
1317	Injector Circuit/IDM Codes Not Retrieved				D													
1318	Injection Timing Piston Position Sensor Circuit							M										
1319	Injection Timing Piston Position Sensor Circuit Range/Performance							M										
1320	Distributor Signal Interrupt									N								
1321																		
1322																		
1323																		
1324																		

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1325																		
1326																		
1327																		
1328																		
1329																		
1330																		
1331																		
1332																		
1333																		
1334																		
1335																		
1336	Crankshaft/Camshaft Sensor Range/Performance								J*	N								
1337																		
1338																		
1339																		
1340	Camshaft Position Sensor B Circuit	G*							J*									CMP-B
1341	Camshaft Position Sensor B Circuit Range/Performance								J*									CMP-B
1342	Pedal Demand Sensor A Circuit Range/Performance													D				
1343	Pedal Demand Sensor B Circuit Range/Performance													D				
1344	Pedal Demand Sensor C Circuit Range/Performance													D				
1345	Cylinder Discrimination Signal (from CMP sensor)							M										
1346	Fuel Level Sensor B Circuit														U			
1347	Fuel Level Sensor B Circuit Range/Performance														U			
1348	Fuel Level Sensor B Circuit Low Input														U			
1349	Fuel Level Sensor B Circuit High Input														U			
1350	Fuel Level Sensor B Circuit Intermittent														U			
1351	Ignition Diagnostic Monitor Input Circuit	G*									E*							IDM
1352	Ignition Coil A Primary Circuit	G*																
1353	Ignition Coil B Primary Circuit	G*																
1354	Ignition Coil C Primary Circuit	G*																
1355	Ignition Coil D Primary Circuit	G*																
1356	Ignition Diagnostic Monitor Indicates Engine Not Turning	G*																IDM
1357	Ignition Diagnostic Monitor Pulsewidth Not Defined	G*																IDM
1358	Ignition Diagnostic Monitor Signal Out Of Self Test Range (no CPU OK)		g									e			U			IDM
1359	Spark Output Circuit	G*									E*							SPOUT
1360	Ignition Coil A Secondary Circuit	[G]																
1361	Ignition Coil B Secondary Circuit	[G]																
1361	Ignition Coil, Cylinder #1, No Activation								J									
1362	Ignition Coil C Secondary Circuit	[G]																
1362	Ignition Coil, Cylinder #2, No Activation								J									
1363	Ignition Coil D Secondary Circuit	[G]																
1363	Ignition Coil, Cylinder #3, No Activation								J									
1364	Ignition Coil Primary Circuit	G*						M										
1364	Ignition Coil, Cylinder #4, No Activation								J									
1365	Ignition Coil Secondary Circuit	[G]																
1365	Ignition Coil, Cylinder #5, No Activation								J									
1366	Ignition Spare	[G]																
1366	Ignition Coil, Cylinder #6, No Activation								J									
1367	Ignition Spare	[G]																
1367	Ignition System Failure Group 1								J*									
1368	Ignition Spare	[G]																
1368	Ignition System Failure Group 2								J*									
1369	Engine Temperature Light Circuit	G									E							
1370	Insufficient RPM Increase During Spark Test								J						U			
1371	Ignition Coil - Cylinder 1 - Early Activation Fault								J									
1372	Ignition Coil - Cylinder 2 - Early Activation Fault								J									
1373	Ignition Coil - Cylinder 3 - Early Activation Fault								J									
1374	Ignition Coil - Cylinder 4 - Early Activation Fault								J									
1375	Ignition Coil - Cylinder 5 - Early Activation Fault								J									
1376	Ignition Coil - Cylinder 6 - Early Activation Fault								J									

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1377																		
1378																		
1379																		
1380	Camshaft Position Actuator Circuit (Bank 1)	G*	g	g							E				U			CPC-1
1381	Camshaft Position Timing Over Advanced (Bank 1)	G*		g							E		e					CPC-1
1382	Camshaft Position Timing Solenoid #1 Circuit							M										
1383	Camshaft Position Timing Over Retarded (Bank 1)	G*		g							E		e					CPC-1
1384	Variable Valve Timing Solenoid A Circuit								J*									
1385	Camshaft Position Actuator Circuit (Bank 2)	G*	g	g														CPC-2
1386	Camshaft Position Timing Over Advanced (Bank 2)	G*		g														CPC-2
1387	Camshaft Position Timing Solenoid #2 Circuit							M										
1388	Camshaft Position Timing Over Retarded (Bank 2)	G*		g														CPC-2
1389	Glow Plug Circuit High Side, Low Input				D*													
1390	Octane Adjust Service Pin In Use/Circuit Open		g									e						OCTADJ
1391	Glow Plug Circuit Low Input (Bank 1)				D*		d											
1392	Glow Plug Circuit High Input (Bank 1)				D		d											
1392	Variable Valve Timing Solenoid A Circuit Low Input								J*									
1393	Glow Plug Circuit Low Input (Bank 2)				D*		d											
1393	Variable Valve Timing Solenoid A Circuit High Input								J*									
1394	Glow Plug Circuit High Input (Bank 2)				D		d											
1395	Glow Plug Monitor Fault (Bank 1)				D*		d											
1396	Glow Plug Monitor Fault (Bank 2)				D*		d											
1396	Variable Valve Timing Solenoid B Circuit								J*									
1397	System Voltage Out Of Self Test Range						d											
1397	Variable Valve Timing Solenoid B Circuit Low Input								J*									
1398	Variable Valve Timing Solenoid B Circuit High Input								J*									
1399	Glow Plug Circuit High Side, High Input				D*													
1400	Differential Pressure Feedback EGR Circuit Low Input	G*	g	g						N	E*	e	e					DPFE
1400	Exhaust Gas Recirculation Valve Position Control								J									
1401	Differential Pressure Feedback EGR Circuit High Input	G*	g	g							E*	e	e					DPFE
1401	Exhaust Gas Recirculation Valve Position Circuit								J									
1401	Exhaust Gas Recirculation Temperature Sensor									N								
1402	Exhaust Gas Recirculation Valve Position Sensor Circuit							M										
1402	Exhaust Gas Recirculation Metering Orifice Restricted	[G*]									E*							
1403	Differential Pressure Feedback Sensor Hoses Reversed	G*																DPFE
1404	EGR Temperature Sensor Circuit	G*																EGRT
1405	Differential Pressure Feedback Sensor Upstream Hose Off Or Plugged	G*									E*							DPFE
1406	Differential Pressure Feedback Sensor Downstream Hose Off Or Plugged	G*									E*							DPFE
1407	Exhaust Gas Recirculation No Flow Detected	[G*]						M										
1408	Exhaust Gas Recirculation Flow Out Of Self Test Range			g									e					
1408	Exhaust Gas Recirculation Thermister								J									
1409	EGR Vacuum Regulator Solenoid Circuit	G*	g	g				M			E*	e	e					EVR
1409	Exhaust Gas Recirculation Valve Circuit							M	J									
1410	Auxiliary Air Cleaner Inlet Control Circuit	G	g	g														
	Exhaust Gas Recirculation Valve Freeze Test - DTC deleted																	
1411	Secondary Air Injection Incorrect Downstream Flow Detected	G*		g														
1412	Exhaust Gas Recirculation Valve Frozen							M										
1413	Secondary Air Injection Monitor Circuit Low Input	G*	g	g							E*	e	e					
1414	Secondary Air Injection Monitor Circuit High Input	G*	g	g							E*	e	e					
1415	Air Pump Circuit							M										
1416	Port Air Circuit							M										
1417	Port Air Relief Circuit							M										
1418	Split Air #1 Circuit							M										
1419	Split Air #2 Circuit							M										
1420	Catalyst Temperature Sensor										E							
1421	Catalyst Damage										E							
1422	Exhaust Gas Ignition Temperature Sensor										E*							
1423	Exhaust Gas Ignition Functional Test										E*							
1424	Exhaust Gas Ignition Plug Primary										E*							
1425	Exhaust Gas Ignition Plug Secondary										E*							

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	OBD-II Diagnostic Trouble Code Definitions	North America									Europe				Australia			
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1426	Exhaust Gas Ignition mini-MAF Sensor Out of Range										E							
1427	Exhaust Gas Ignition mini-MAF Sensor Circuit Shorted										E							
1428	Exhaust Gas Ignition mini-MAF Sensor Circuit Open										E							
1429	Electric Air Pump Primary										E*							
1430	Electric Air Pump Secondary										E*							
1431	Misfire Monitor Disabled, unable to learn trigger wheel profile	G*																
1432	Thermostat Heater Control Circuit										E*	e	e					
1433	A/C Refrigerant Temperature Circuit Low														U			
1434	A/C Refrigerant Temperature Circuit High														U			
1435	A/C Refrigerant Temperature Circuit Range/Performance														U			
1436	A/C Evaporator Air Temperature Circuit Low														U			
1437	A/C Evaporator Air Temperature Circuit High														U			
1438	A/C Evaporator Air Temperature Circuit Range/Performance														U			
1439	Floor Temp Switch Circuit							M										
1440	Purge Valve Stuck Open								J									
1441	ELC System 1								J									
1442	Evaporative Emission Control System Control Leak Detected	G																
1443	Evaporative Emission Control System Control Valve	G*																
1444	Purge Flow Sensor Circuit Low Input	G*																PFSNS
1445	Purge Flow Sensor Circuit High Input	G*																PFSNS
1446	Evaporative Vacuum Solenoid Circuit							M										
1447	ELC System Closure Valve Flow								J									
1448	ELC System 2								J									
1449	Evaporative Check Solenoid Circuit							M										
1450	Unable to Bleed Up Fuel Tank Vacuum	G*						M										
1451	Evaporative Emission Control System Vent Control Circuit	G*	g	g				M										CANVNT
1452	Unable to Bleed Up Fuel Tank Vacuum	G																
1453	Fuel Tank Pressure Relief Valve Malfunction								J									
1454	Evaporative Emission Control System Vacuum Test								J									
1455	Evaporative Emission Control System Control Leak Detected (gross leak/no flow)	G																
1455	Fuel Tank Level Sensor Circuit							M										
1456	Fuel Tank Temperature Sensor Circuit							M										FTT
1457	Purge Solenoid Control System							M										
1457	Unable To Pull Fuel Tank Vacuum	G																
1458																		
1459																		
1460	Wide Open Throttle A/C Cutout Circuit	G	g	g				M			E	e	e					ACRR/WAC
1461	A/C Pressure Sensor Circuit High Input	G	g	g														ACPS
1462	A/C Pressure Sensor Circuit Low Input	G	g	g														ACPS
1463	A/C Pressure Sensor Insufficient Pressure Change	G													U			
1464	A/C Demand Out Of Self Test Range		g	g			d	M				e	e		U			ACD
1465	A/C Relay Circuit	G						M			E				U			
1466	A/C Refrigerant Temperature Sensor Circuit	G																
1467	A/C Compressor Temperature Sensor										E							
1468	SSPOD Open Circuit or Closed Circuit										E*							
1469	Rapid A/C Cycling	G																
1470	A/C Cycling Period Too Short										E*							
1471	Electrodrive Fan 1 Operational Failure (Driver side)														U			
1472	Electrodrive Fan 2 Operational Failure (Passenger side)														U			
1473	Fan Circuit Open (VLCM)		g					M										
1474	Fan Control Primary Circuit	G	g	g				M			E	e	e	D				FC
1475	Fan Relay (Low) Circuit							M	J									
1476	Fan Relay (High) Circuit							M	J									
1477	Additional Fan Relay Circuit							M										
1478	Cooling Fan Driver										E							
1479	High Fan Control Primary Circuit	G	g	g				M			E	e	e	D				HFC
1480	Fan Secondary Low With Low Fan On	[G]	[g]					M										
1481	Fan Secondary Low With High Fan On		[g]	[g]				M										
1482	SCP	[G]																
1483	Fan Circuit Shorted To Ground (VLCM)	G		g														

Paul Baltusis
Diagnostic Systems Department

	OBD-II Diagnostic Trouble Code Definitions	North America								Europe				Australia			
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1484	Fan Driver Circuit Open To Power Ground (VLCM)	G		g														
1485	EGRV Circuit							M										
1486	EGRA Circuit							M										
1487	Exhaust Gas Recirculation Check Solenoid Circuit							M										
1488																		
1489																		
1490	Secondary Air Relief Solenoid Circuit							M										
1491	Secondary Switch Solenoid Circuit							M										
1492	APLSOL Solenoid Circuit							M										
1493	RCNT Solenoid Circuit							M										
1494	SPCUT Solenoid Circuit							M										
1495	TCSPL Solenoid Circuit							M										
1496	EGR Stepper Motor 1 Control Circuit Low/High							M*										
1497	EGR Stepper Motor 2 Control Circuit Low/High							M*										
1498	EGR Stepper Motor 3 Control Circuit Low/High							M*										
1499	EGR Stepper Motor 4 Control Circuit Low/High							M*										
1500	Vehicle Speed Sensor	G						M			E							VSS
1501	Vehicle Speed Sensor Out Of Self Test Range		g	g		d	d	M					e					VSS
1502	Vehicle Speed Sensor Intermittent	G^									E							VSS
1502	Invalid Test - Auxiliary Power Control Module Functioning					d	d											
1503	Auxiliary Speed Sensor										E							
1504	Idle Air Control Circuit	G*	g	g				M			E*	e	e					IAC
1505	Idle Air Control System At Adaptive Clip	G*						M										IAC
1506	Idle Air Control Overspeed Error	G*						M			E*							IAC
1507	Idle Air Control Underspeed Error	G*						M			E*							IAC
1508	Idle Air Control Circuit Open								J									
1508	Idle Up Solenoid 1 Circuit							M										
1509	Idle Air Control Circuit Shorted								J									
1509	Idle Up Solenoid 2 Circuit							M										
1510	Idle Signal Circuit							M										
1511	Idle Switch (Electric Control Throttle) Circuit							M										
1512	Intake Manifold Runner Control Stuck Closed (Bank 1)	G						M										IMRC
1513	Intake Manifold Runner Control Stuck Closed (Bank 2)	G																IMRC
1514	High Load Neutral/Drive Fault								J									
1515	Electric Current Circuit							M										
1516	Intake Manifold Runner Control Input Error (Bank 1)	G*	g											D				IMRC
1516	Gear Change Neutral/Drive Fault								J									
1517	Intake Manifold Runner Control Input Error (Bank 2)	G*	g															IMRC
1517	Cranking Neutral/Drive Fault								J									
1518	Intake Manifold Runner Control Stuck Open (Bank 1)	G*	g	g														IMRC
1519	Intake Manifold Runner Control Stuck Closed (Bank 2)	G	g	g														IMRC
1520	Intake Manifold Runner Control Control Circuit	G*	g	g										D	U			IMRC
1521	Variable Resonance Induction System Solenoid #1 Circuit							M										
1522	Variable Resonance Induction System Solenoid #2 Circuit							M										
1523	IVC Solenoid Circuit							M										
1524	Variable Intake Solenoid Circuit							M										
1525	Air Bypass Valve							M										
1526	Air Bypass System							M										
1527	Bypass Air Solenoid (Accelerate Warmup) Circuit							M										
1528	Subsidiary Throttle Valve Solenoid Circuit							M										
1529	SCAIR Solenoid Circuit							M										
1530	A/C Clutch Circuit Open (VLCM)	G	g	g														
1531	Invalid Test - Accelerator Pedal Movement						d											
1532	Intake Manifold Communication Control Control Circuit (Bank 2)	G	g															IMCC
1533	Air Assisted Injector Circuit	G*																
1534	Restraint Deployment Indicator Circuit	G	g	g					J									
1535	Blower Fan Speed Circuit Range/Performance														U			
1536	Parking Brake Switch Circuit						d											
1537	Intake Manifold Runner Control Stuck Open (Bank 1)	G*	g	g														IMRC
1538	Intake Manifold Runner Control Stuck Open (Bank 2)	G*	g	g														IMRC

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1539	A/C Clutch Circuit Overcurrent/Short (VLCM)	G	g															
1540	Air Bypass Valve Circuit							M										
1541	Intake Manifold Runner Control Control Circuit Range/Performance													D				
1542	Primary PCM ID Circuit (dual PCM application)	G*	g	g														
1543	Engine Coolant Heater A Control Circuit																	
1544	Engine Coolant Heater B Control Circuit																	
1545																		
1546																		
1547																		
1548																		
1549	Intake Manifold Communication Control Control Circuit (Bank 1)	G	g															IMCC
1550	Power Steering Pressure Sensor Out Of Self Test Range	G		g														PSP [AI]
1551																		
1552																		
1553																		
1554																		
1555																		
1556																		
1557																		
1558																		
1559																		
1560																		
1561																		
1562	PCM B+ Voltage Low (KAM power)							M*										
1563	Injection Pump Control Module Requesting Engine Stop													D				
1564	Injection Pump Control Module Requesting Reduced Fueling													D				
1565	Speed Control Command Switch Out Of Range High	G							J									
1566	Speed Control Command Switch Out Of Range Low	G							J									
1566	TCM B+ Voltage Low							M										
1567	Speed Control Output Circuit	G							J									
1568	Speed Control Unable to Hold Speed	G							J									
1569	Intake Manifold Runner Control Control Circuit Low							M										
1570	Intake Manifold Runner Control Control Circuit High							M										
1571	Brake Switch								J									
1572	Brake Pedal Switch Circuit	G																
1573	Throttle Position Not Available	G*	g	g														
1574	Throttle Position Sensor Outputs Disagree	G	g	g														
1575	Pedal Position Out Of Self Test Range		g	g														
1576	Pedal Position Not Available	G*	g	g										D				
1577	Pedal Position Sensor Outputs Disagree	G	g	g														
1578	ETC Power Less Than Demand	[G*]																
1579	ETC In Power Limiting Mode	[G*]																
1580	Electronic Throttle Monitor PCM Override	G*	g	g														ETM
1581	Electronic Throttle Monitor Malfunction	G	g	g														ETM
1582	Electronic Throttle Monitor Data Available	G	g	g					J									ETM
1583	Electronic Throttle Monitor Cruise Disablement	G	g	g														ETM
1584	Throttle Control Detected ETB Malfunction	G	g	g														TCU
1585	Throttle Control Malfunction	G*	g	g														TCU
1586	Electronic Throttle to PCM Communication Error	G*	g	g														
1587	Throttle Control Modulated Command Malfunction	G*	g	g														TCU
1588	Throttle Control Detected Loss Of Return Spring	G	g	g														TCU
1589	Throttle Control Unable To Control To Desired Throttle Angle	G*	g	g														TCU
1590																		
1591																		
1592																		
1593																		
1594																		
1595																		
1596																		
1597																		

	OBD-II Diagnostic Trouble Code Definitions	North America									Europe				Australia			
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1598																		
1599																		
1600	Loss Of KAM Power, Circuit Open				D*			M	J*									
1601	ECM/TCM Serial Communication Error							M*										
1602	Immobilizer/ECM Communication Error							M										
1603	ID Number Unregistered							M										
1603	EEPROM Malfunction								J*									
1604	Code Word Unregistered							M										
1605	Keep Alive Memory Test Failure	[G]							J									
1605	A/T Diagnostics Communication Line									N								
1606	ECM Control Relay Output Circuit								J									
1607	MIL Output Circuit								J									
1608	PCM Internal Circuit							M										
1608	Watchdog Malfunction								J*					D				
1609	Diagnostic Lamp Driver										E							
1609	Internal Control Module CPU to CPU Communication Failure								J									
1609	PCM Internal Circuit							M										
1610	SBDS Interactive Codes	G																
1611	SBDS Interactive Codes	G																
1611	Throttle Target Malfunction 1								J*									
1612	SBDS Interactive Codes	G																
1612	Throttle Offset Malfunction								J*									
1613	SBDS Interactive Codes	G																
1614	SBDS Interactive Codes	G																
1615	SBDS Interactive Codes	G																
1616	SBDS Interactive Codes	G																
1617	SBDS Interactive Codes	G																
1618	SBDS Interactive Codes	G																
1619	SBDS Interactive Codes	G																
1620	SBDS Interactive Codes	G																
1621	Immobilizer Code Words Do Not Match							M										
1622	Immobilizer ID Does Not Match							M										
1623	Immobilizer Code Word/ID Number Write Failure							M										
1624	Anti-theft System							M										
1625	Fan Driver Circuit Open to Power B+ (VLCM)	G		g														
1626	A/C Circuit Open to Power B+ (VLCM)	G	g															
1627	Module Supply Voltage Out Of Range										E							
1628	Module Ignition Supply Input										E							
1629	Internal Voltage Regulator										E							
1630	Alternator Regulator #1 Control Circuit							M										
1630	Internal Vref										E			D				
1631	Alternator Regulator #2 Control Circuit							M										
1631	Main Relay (power hold)										E			D				
1632	Smart Alternator Faults Sensor / Circuit										E							
1633	Keep Alive Power Voltage Too Low	G*																
1633	Generator Control System - over charge							M										
1634	Data Output Link Circuit				D*													
1634	Generator Control System - no charge							M										
1635	Tire/Axle Out of Acceptable Range	G																
1636	Inductive Signature Chip Communication Error	G*			D*													
1637	CAN Link ECM/ABS Control Module Circuit/Network								J*									
1638	CAN Link ECM/INSTM Circuit/Network								J*									
1639	Vehicle ID Block Corrupted, Not Programmed	G																
1640	Powertrain DTCs Available In Another Control Module (Ref. PID 0946)	G*																
1641	Fuel Pump Primary Circuit	[G]	[g]	[g]					J		E							
1642	CAN Link Circuit	G*	g	g					J*									
1643	CAN Link Engine Control Module/Transmission Control Module Circuit/Network	G*	g	g					J*									
1644	Fuel Pump Speed Control Circuit	[G]																
1645	Fuel Pump Resistor Switch Circuit							M										
1646	Linear O2 Sensor Control Chip (Bank 1)								J*									

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1647	Linear O2 Sensor Control Chip (Bank 2)								J*									
1648	Knock Sensor Input Chip								J*									
1649	Fuel Injection Pump Module							M										
1650	Power Steering Pressure Switch Out Of Self Test Range		g	g				M				e	e		U			PSP [DI]
1651	Power Steering Pressure Switch Input	G						M			E				U			PSP [DI]
1652	Idle Air Control Monitor Disabled By PSPS Failed On							M										
1653	Power Steering Output Circuit														U			[DO]
1654	Recirculation Override Circuit														U			
1655	Starter Disable Circuit														U			[DO]
1656	CAN Link PCM/PCM Circuit/Network	G*	g	g														
1657	CAN Link Chip Malfunction	G*	g	g														
1658	Injection Pump Control Module System Voltage													D				
1659	Injection Pump Control Module Power Circuit													D				
1660	Output Circuit Check Circuit High Input					d												
1661	Output Circuit Check Circuit Low Input					d												
1662	EDU_EN Output Circuit					d												
1663	Fuel Demand Command Signal Output Circuit					d												
1664	Injection Pump Control Module Malfunction													D				
1665	Injection Pump Control Module Communications													D				
1666	Injection Pump Control Module/ECM Crank Reference Synchronization													D				
1667	Cylinder ID Circuit					d												
1668	PCM/IDM Communications Error					d												
1669	Injection Pump Control Module Monitoring ECM Fault													D				
1670	Electronic Feedback Signal Not Detected				D*													
1671																		
1672																		
1673																		
1674																		
1675																		
1676																		
1677																		
1678																		
1679																		
1680	Metering Oil Pump Failure							M										
1681	Metering Oil Pump Failure							M										
1682	Metering Oil Pump Failure							M										
1683	Metering Oil Pump Temperature Sensor Circuit							M										
1684	Metering Oil Pump Position Sensor Circuit							M										
1685	Metering Oil Pump Stepping Motor Cont. Circuit							M										
1686	Metering Oil Pump Stepping Motor Cont. Circuit							M										
1687	Metering Oil Pump Stepping Motor Cont. Circuit							M										
1688	Metering Oil Pump Stepping Motor Cont. Circuit							M										
1689	Oil Pressure Control Solenoid Circuit							M										
1690	Wastegate Solenoid Circuit				D*	d		M										
1691	Turbo Pressure Control Solenoid Circuit							M										
1692	Turbo Control Solenoid Circuit							M										
1693	Turbo Charge Control Circuit							M										
1694	Turbo Charge Relief Circuit							M										
1695	CAN Link Injection Pump Control Module/Engine Control Module													D				
1696	CAN Link Engine Control Module/Cruise Control Module Circuit/Network								J									
1697	Cruise Control Distance-Control Input Circuit								J									
1698																		
1699																		
1700	Transmission Indeterminate Failure (Failed to Neutral)	G			D				J*									
1701	Reverse Engagement Error	G			D													
1701	Fuel Trim									N								
1702	Transmission Range Sensor Circuit Intermittent	G	g	g	D													
1703	Brake Switch Out Of Self Test Range		g	g				M				e	e					
1704	Transmission Range Circuit Not Indicating Park/Neutral During Self Test		g	g		d												
1705	Transmission Range Circuit Not Indicating Park/Neutral During Self Test		g			d	d	M				e			U			

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Diagnostic Systems Department

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1705	Throttle Position Sensor (A/T)									N								
1706	High Vehicle Speed Observed in Park				D^			M										
1707	Transfer Case Neutral Indicator Hard Fault Present				[D]													
1708	Clutch Switch Circuit							M										
1709	Park Neutral Position Switch Out Of Self Test Range		g					M				e						
1710	Transmission Control Module Solenoid/Internal Ground Circuit							M										
1711	Transmission Fluid Temperature Sensor Out Of Self Test Range		g	g		d	d											
1712	Transmission Torque Reduction Request Signal	G									E				U			
1713	Transmission Fluid Temperature Sensor In Range Failure (< 50 deg F)	G^			D*			M										
1714	Shift Solenoid A Inductive Signature	G*			D*													
1715	Shift Solenoid B Inductive Signature	G*			D*													
1716	Shift Solenoid C Inductive Signature	G*			D*													
1717	Shift Solenoid D Inductive Signature	G*																
1718	Transmission Fluid Temperature Sensor In Range Failure (> 250 deg F)	G^			D													
1719	Engine Torque Signal							M										
1720	Vehicle Speed (Meter) Circuit							M	J*									
1721	Gear 1 Incorrect Ratio							M										
1722	Gear 2 Incorrect Ratio							M										
1722	Stall Speed								J*									
1723	Gear 3 Incorrect Ratio							M										
1724	Gear 4 Incorrect Ratio							M										
1725	Insufficient Engine Speed Increase During Self Test				D													
1726	Insufficient Engine Speed Decrease During Self Test				D													
1726	Engine Overspeed								J*									
1727	Coast Clutch Solenoid Inductive Signature	G^			D													
1728	Transmission Slip	G			D													
1729	4x4L Switch	G			D													
1730	Gear Control Malfunction 2,3,5								J*									
1731	1-2 Shift Malfunction	G			D													
1731	Inconsistent Gear Ratio								J									
1732	2-3 Shift Malfunction	G			D													
1733	3-4 Shift Malfunction	G			D													
1734	4-5 Shift Malfunction																	
1734	Gear Control Malfunction								J*									
1735	First Gear Switch Circuit Failure							M										
1736	Second Gear Switch Circuit Failure							M										
1737	Lockup Solenoid							M										
1738	Shift Time Error							M										
1739	Slip Solenoid							M										
1740	Torque Converter Clutch Solenoid Inductive Signature	G*			D*													
1741	Torque Converter Clutch Solenoid Control Error	G			D			M										
1741	Torque Converter Solenoid Circuit Open							M										
1742	Torque Converter Clutch Solenoid Circuit Failed On	G*			D													
1742	Torque Converter Solenoid Circuit Short							M										
1743	Torque Converter Clutch Solenoid Circuit							M										
1743	Torque Converter Clutch Solenoid Circuit Failed On	G^																
1744	Torque Converter Clutch Solenoid Circuit							M										
1744	Torque Converter Clutch Solenoid Circuit Performance	G*			D													
1745	Line Pressure Solenoid							M										
1745	Pressure Regulator 1								J*									
1746	Pressure Control Solenoid A Open Circuit	G^	g		D	d		M										
1746	Pressure Regulator 2								J*									
1747	Pressure Control Solenoid A Short Circuit	G*	g		D*	d		M										
1747	Pressure Regulator 3								J*									
1748	Pressure Control Solenoid A				D^			M										
1748	Pressure Regulator 5								J*									
1749	Pressure Control Solenoid A Failed Low	G																
1750																		
1751	Shift Solenoid A Performance	G^			D													
1751	Shift Solenoid A Circuit Open							M										

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	* = MIL illuminates, ^ = O/D Cancel flashes, [ ] = assigned but not used																	
	All DTCs preceded by P unless otherwise indicated. Capital and small letters are used for visual impact only! Mazda and Nissan DTCs are for reference. Ford P/T is not responsible for assigning these DTCs. Shading indicates change from previous version.	Continuous	KOEO	KOER	Continuous	KOEO	KOER				Continuous	KOEO	KOER		Continuous	KOEO	KOER	A = Analog D = Digital F = Frequency I = Input O = Output
1752	Shift Solenoid A Circuit Short							M										
1753																		
1754	Coast Clutch Solenoid Circuit	G^	g		D	d												
1755																		
1756	Shift Solenoid B Performance	G^			D													
1756	Shift Solenoid B Circuit Open							M										
1757	Shift Solenoid B Circuit Short							M										
1758	Presure Solenoid Control System Incorrect Current								J*									
1759	2-4 Brake Failsafe Valve Malfunction							M										
1760	Pressure Control Solenoid A Short Circuit Intermittent	G^	g															
1760	Overrun Clutch S/V									N								
1761	Shift Solenoid C Performance	G^																
1762	Overdrive Band Failed Off	G*																
1763	Low and Reverse Brake Pressure Switch Circuit							M										
1764	Low and Reverse Brake Failsafe Valve Malfunction							M										
1765	Timing Solenoid Circuit							M			E							
1766	Shift Solenoid D Performance	G^																
1767	Torque Converter Clutch Circuit	G^																
1768	Performance/Normal/Winter Mode Input	G	g												U			
1769	AG4 Transmission Torque Modulation Fault (VW trans)										E							
1770	Clutch Solenoid Circuit	G						M										
1771	Shift Solenoid E Performance																	
1771	Throttle Position Sensor Circuit High Input							M										
1772	Throttle Position Sensor Circuit Low Input							M										
1773																		
1774																		
1775	Transmission System MIL Fault								J									
1775	Torque Down Signal #1 Circuit							M										
1776	Ignition Retard Request Duration								J									
1776	Torque Down Signal #2 Circuit							M										
1777	Ignition Retard Request Circuit								J									
1777	Torque Down Response Signal Circuit							M										
1778	Transmission Reverse I/P Circuit								J									
1779	TCIL Circuit				D													
1779	Load Control								J*									
1780	Transmission Control Switch (O/D Cancel) Circuit Out Of Self Test Range			g			d	M										
1781	4X4L Circuit Out Of Self Test Range		g			d												
1782	Performance/Economy Switch Circuit Out Of Self Test Range			g														
1783	Transmission Overtemperature Condition	G^			D^			M										
1784	Transmission Mechanical Failure - First And Reverse	G																
1785	Transmission Mechanical Failure - First And Second	G																
1786	3-2 Downshift Error	G																
1787	2-1 Downshift Error	G																
1788	Pressure Control Solenoid B Open Circuit	G*	g					M										
1789	Pressure Control Solenoid B Short Circuit	G*	g					M										
1789	Ignition Supply Malfunction >7, <9 volts								J*									
1790	TP (Mechanical) Circuit							M										
1791	TP (Electric) Circuit							M										
1792	Barometer Pressure Circuit							M			E							
1793	Intake Air Volume Circuit							M										
1793	Ignition Supply Malfunction >16, <7 volts								J*									
1794	Battery Voltage Circuit							M	J		E			D				
1795	Idle Switch Circuit							M										
1795	Inconsistent CAN Level	G*	g	g					J*									
1796	Kick Down Switch Circuit							M										
1796	CAN Controller Circuit (Bus off)								J*									
1797	Clutch Pedal Position Switch/Neutral Switch Circuit							M										
1797	CAN TCM/ECM Circuit Malfunction								J*									
1798	Coolant Temperature Circuit							M										
1798	CAN TCM/INST Circuit Malfunction								J									

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1799	Hold Switch Circuit							M										
1799	CAN TCM/ABS Circuit Malfunction								J									
1800																		
1801																		
1802																		
1803																		
1804	4-Wheel Drive High Indicator Circuit Open or Shorted To Ground	G	g	g														
1805																		
1806	4-Wheel Drive High Indicator Short To Battery	G	g	g														
1807																		
1808	4-Wheel Drive Low Indicator Circuit Open or Short To Ground	G	g	g														
1809																		
1810	4-Wheel Drive Low Indicator Short To Battery	G	g	g														
1811																		
1812	4-Wheel Drive Mode Select Switch Circuit Open	G	g	g														
1813																		
1814																		
1815	4-Wheel Drive Mode Select Switch Circuit Short To Ground	G	g	g														
1816																		
1817																		
1818																		
1819	Neutral Safety Switch Input Short To Ground		g	g														
1820	Transfer Case LO To HI Shift Relay Circuit Open Or Short To Ground	G																
1821																		
1822	Transfer Case LO To HI Shift Relay Coil Short To Battery	G																
1823																		
1824	4-Wheel Drive Electric Clutch Relay Open Or Short To Ground	G	g	g														
1825																		
1826	4-Wheel Drive Electric Clutch Relay Short To Battery	G																
1827																		
1828	Transfer Case HI To LO Shift Relay Coil Circuit Open Or Short To Ground	G	g	g														
1829																		
1830	Transfer Case HI To LO Shift Relay Coil Circuit Short To Battery	G																
1831																		
1832	Transfer Case 4-Wheel Drive Solenoid Circuit Open or Short To Ground	G																
1833																		
1834	Transfer Case 4-Wheel Drive Solenoid Circuit Short To Battery	G	g	g														
1835																		
1836																		
1837																		
1838	No Shift Motor Movement Detected	G																
1839																		
1840																		
1841																		
1842																		
1843																		
1844																		
1845																		
1846	Transfer Case Contact Plate 'A' Circuit Open	G																
1847																		
1848																		
1849																		
1850	Transfer Case Contact Plate 'B' Circuit Open	G																
1851																		
1852																		
1853																		
1854	Transfer Case Contact Plate 'C' Circuit Open	G																
1855																		
1856																		
1857																		

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1858	Transfer Case Contact Plate 'D' Circuit Open	G																
1859																		
1860																		
1861																		
1862																		
1863																		
1864																		
1865																		
1866	Transfer Case Cannot Be Shifted	G																
1867	Transfer Case Contact Plate General Circuit Failure	G																
1868																		
1869																		
1870																		
1871																		
1872																		
1873																		
1874																		
1875																		
1876	Transfer Case 2-Wheel Drive Solenoid Circuit Open Or Short To Ground	G	g	g														
1877	Transfer Case 2-Wheel Drive Solenoid Circuit Short To Battery	G	G	G														
1878																		
1879																		
1880																		
1881	Engine Coolant Level Switch Circuit	G	g	g														
1882	Engine Coolant Level Switch Circuit Short To Ground	G							J									
1883	Engine Coolant Level Switch Circuit	G																
1884	Engine Coolant Level Lamp Circuit Short To Ground	G																
1885																		
1886																		
1887																		
1888																		
1889																		
1890																		
1891	Transfer Case Contact Plate Ground Return Open Circuit	G	g	g														
1892																		
1892																		
1894																		
1895																		
1896																		
1897																		
1898																		
1899																		
1900	Output Shaft Speed Sensor Circuit Intermittent	G																
1900	Cooling Fan									N								
1901	Turbine Shaft Speed Sensor Circuit Intermittent	G																
1902	Kickdown Solenoid Relay Control Circuit (Allison				D	d	d											
1903	Kickdown Solenoid Circuit Low Voltage				D	d	d											
1904	Kickdown Solenoid Circuit HIgh Voltage				D	d	d											
1905																		
1906	Kickdown Pull Relay Open Or Short Circuit To Ground (A4LD)										E							
1907	Kickdown Hold Relay Open Or Short Circuit To Ground (A4LD)										E							
1908	Transmission Pressure Control Solenoid Open Or Short (A4LD)										E							
1909	Transmission Fluid Temperature Sensor Circuit Open Or Short (A4LD)										E							
1910																		
1911																		
1912																		
1913																		
1914																		
1915																		
1916																		

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1917																	
1918																	
1919																	
1920																	
	GEM Module DTCs																
B1342	GEM Defective	G	g	g													
B1355	Ignition Run Circuit Open or Short To Ground		g	g													
B1359	Ignition Run/Acc Circuit Open Or Short To Ground	G	g	g													
B1365	Ignition Start Circuit Short To Battery	G	g	g													
P0500	Vehicle Speed Signal Not Detected	G															
P1483	Brake Pedal Input Short To Battery	G	g	g													
P1485	Brake Pedal Input Short To Battery	G	g	g													
U1021	SCP (J1850) Invalid or Missing Data for Air Conditioning Clutch Sense Input	G	g	g													
U1039	SCP (J1850) Invalid or Missing Data for Vehicle Speed	G*	g	g													
U1051	SCP (J1850) Invalid or Missing Data for Brake Input	G	g	g													
U1073	SCP (J1850) Invalid or Missing Data for Engine Coolant Fan Status	G	g	g													
U1075	SCP (J1850) Invalid or Missing Data for Engine Oil Temperature	G	g	g													
U1131	SCP (J1850) Invalid or Missing Data for Fuel Pump Status	G	g	g													
U1135	SCP (J1850) Invalid or Missing Data for Ignition Switch / Starter	G	g	g													
U1451	SCP (J1850) Invalid or Missing Data From Anti-Theft Module, Vehicle Immobilized		g								e						
U2015	SCP (J1850) Invalid or Missing Data From NGV Module	G*	g	g													

Paul Baltusis
Diagnostic Systems Department