

OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel	Spark Ignition			
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER								
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Fuel and Air Metering and Auxiliary Emission Controls																		
P0000	SAE Reserved - Use Not Allowed																	
P0001	Fuel Volume Regulator Control Circuit / Open							D*	d	d								FVR
P0002	Fuel Volume Regulator Control Circuit Range/Performance							D*										FVR
P0003	Fuel Volume Regulator Control Circuit Low							D*	d	d								FVR
P0004	Fuel Volume Regulator Control Circuit High							D*	d	d								FVR
P0005	Fuel Shutoff Valve "A" Control Circuit / Open	G																
P0006	Fuel Shutoff Valve "A" Control Circuit Low																	
P0007	Fuel Shutoff Valve "A" Control Circuit High																	
P0008	Engine Position System Performance (Bank 1)																	
P0009	Engine Position System Performance (Bank 2)																	
P000A	Intake (A) Camshaft Position Slow Response (Bank 1)																	
P000B	Exhaust (B) Camshaft Position Slow Response (Bank 1)																	
P000C	Intake (A) Camshaft Position Slow Response (Bank 2)																	
P000D	Exhaust (B) Camshaft Position Slow Response (Bank 2)																	
P000E	Fuel Volume Regulator Control Exceeded Learning Limit							D										FVR
P000F	Fuel System Over Pressure Relief Valve Activated																	
P0010	Intake (A) Camshaft Position Actuator Circuit / Open (Bank 1)	G*	g	g					M*	J*								
P0011	Intake (A) Camshaft Position Timing - Over-Advanced (Bank 1)	G*	g	g					M*			E						
P0012	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 1)	G*	g	g					M*			E						
P0013	Exhaust (B) Camshaft Position Actuator Circuit / Open (Bank 1)	G*	g	g														
P0014	Exhaust (B) Camshaft Position Timing - Over-Advanced (Bank 1)	G*	g	g														
P0015	Exhaust (B) Camshaft Position Timing - Over-Retarded (Bank 1)	G*	g	g														
P0016	Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor A)	G*						D*		M*								
P0017	Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor B)																	
P0018	Crankshaft Position - Camshaft Position Correlation (Bank 2 Sensor A)	G*								M*								
P0019	Crankshaft Position - Camshaft Position Correlation (Bank 2 Sensor B)																	
P001A	Intake (A) Cam Profile Control Circuit / Open (Bank 1)																	
P001B	Intake (A) Cam Profile Control Circuit Low (Bank 1)																	
P001C	Intake (A) Cam Profile Control Circuit High (Bank 1)																	
P001D	Intake (A) Cam Profile Control Circuit / Open (Bank 2)																	
P001E	Intake (A) Cam Profile Control Circuit Low (Bank 2)																	
P001F	Intake (A) Cam Profile Control Circuit High (Bank 2)																	
P0020	Intake (A) Camshaft Position Actuator Circuit / Open (Bank 2)	G*	g	g					M*	J*								
P0021	Intake (A) Camshaft Position Timing - Over-Advanced (Bank 2)	G*	g	g					M*									
P0022	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 2)	G*	g	g					M*									
P0023	Exhaust (B) Camshaft Position Actuator Circuit / Open (Bank 2)	G*	g	g														
P0024	Exhaust (B) Camshaft Position Timing - Over-Advanced (Bank 2)	G*	g	g														
P0025	Exhaust (B) Camshaft Position Timing - Over-Retarded (Bank 2)	G*	g	g														
P0026	Intake Valve Control Solenoid Circuit Range/Performance (Bank 1)																	
P0027	Exhaust Valve Control Solenoid Circuit Range/Performance (Bank 1)																	
P0028	Intake Valve Control Solenoid Circuit Range/Performance (Bank 2)																	
P0029	Exhaust Valve Control Solenoid Circuit Range/Performance (Bank 2)																	
P002A	Exhaust(B) Cam Profile Control Circuit / Open (Bank 1)																	
P002B	Exhaust (B) Cam Profile Control Circuit Low (Bank 1)																	
P002C	Exhaust (B) Cam Profile Control Circuit High (Bank 1)																	
P002D	Exhaust (B) Cam Profile Control Circuit / Open (Bank 2)																	
P002E	Exhaust (B) Cam Profile Control Circuit Low (Bank 2)																	
P002F	Exhaust (B) Cam Profile Control Circuit High (Bank 2)																	
P0030	HO2S Heater Control Circuit (Bank 1 Sensor 1)	G*	g	g					M*	J*		E*						
P0031	HO2S Heater Control Circuit Low (Bank 1 Sensor 1)								M*	J*		E*						
P0032	HO2S Heater Control Circuit High (Bank 1 Sensor 1)	G*	g	g					M*	J*		E*						
P0033	Turbocharger/Supercharger Bypass Valve Control Circuit / Open							D*	d	d								
P0034	Turbocharger/Supercharger Bypass Valve Control Circuit Low																	
P0035	Turbocharger/Supercharger Bypass Valve Control Circuit High																	
P0036	HO2S Heater Control Circuit (Bank 1 Sensor 2)											E*						
P0037	HO2S Heater Control Circuit Low (Bank 1 Sensor 2)								M*	J*		E*						
P0038	HO2S Heater Control Circuit High (Bank 1 Sensor 2)								M*	J*		E*						
P0039	Turbocharger/Supercharger Bypass Valve Control Circuit Range/Performance																	
P003A	Turbocharger/Supercharger Boost Control "A" Position Exceeded Learning Limit																	

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* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER				Continuous	KOEO	KOER	Continuous	KOEO	KOER	
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P003B	Turbocharger/Supercharger Boost Control "B" Position Exceeded Learning Limit																			
P003C	Intake (A) Camshaft Profile Control Performance or Stuck Off (Bank 1)																			
P003D	Intake (A) Camshaft Profile Control Stuck On (Bank 1)																			
P003E	Intake (A) Camshaft Profile Control Performance or Stuck Off (Bank 2)																			
P003F	Intake (A) Camshaft Profile Control Stuck On (Bank 2)																			
P0040	Oxygen Sensor Signals Swapped Bank 1 Sensor 1 / Bank 2 Sensor 1				g															
P0041	Oxygen Sensor Signals Swapped Bank 1 Sensor 2 / Bank 2 Sensor 2				g															
P0042	HO2S Heater Control Circuit (Bank 1 Sensor 3)																			
P0043	HO2S Heater Control Circuit Low (Bank 1 Sensor 3)								M*											
P0044	HO2S Heater Control Circuit High (Bank 1 Sensor 3)								M*											
P0045	Turbocharger/Supercharger Boost Control "A" Circuit / Open																		D*	
P0046	Turbocharger/Supercharger Boost Control "A" Circuit Range/Performance								D*	d	d									
P0047	Turbocharger/Supercharger Boost Control "A" Circuit Low																			
P0048	Turbocharger/Supercharger Boost Control "A" Circuit High																		D*	
P0049	Turbocharger/Supercharger Turbine Overspeed								D											
P004A	Turbocharger/Supercharger Boost Control "B" Circuit / Open																		D*	
P004B	Turbocharger/Supercharger Boost Control "B" Circuit Range/Performance																			
P004C	Turbocharger/Supercharger Boost Control "B" Circuit Low																			
P004D	Turbocharger/Supercharger Boost Control "B" Circuit High																		D*	
P004E	Turbocharger/Supercharger Boost Control "A" Circuit Intermittent/Erratic																		D*	
P004F	Turbocharger/Supercharger Boost Control "B" Circuit Intermittent/Erratic																		D*	
P0050	HO2S Heater Control Circuit (Bank 2 Sensor 1)	G*		g																
P0051	HO2S Heater Control Circuit Low (Bank 2 Sensor 1)								M*	J*										
P0052	HO2S Heater Control Circuit High (Bank 2 Sensor 1)	G*		g					M*	J*										
P0053	HO2S Heater Resistance (Bank 1 Sensor 1)	G*	g	g										E*						
P0054	HO2S Heater Resistance (Bank 1 Sensor 2)	G*	g	g										E*						
P0055	HO2S Heater Resistance (Bank 1 Sensor 3)	G*	g	g																
P0056	HO2S Heater Control Circuit (Bank 2 Sensor 2)																			
P0057	HO2S Heater Control Circuit Low (Bank 2 Sensor 2)								M*	J*										
P0058	HO2S Heater Control Circuit High (Bank 2 Sensor 2)								M*	J*										
P0059	HO2S Heater Resistance (Bank 2 Sensor 1)	G*	g	g																
P005A	Exhaust (B) Camshaft Profile Control Performance or Stuck Off (Bank 1)																			
P005B	Exhaust (B) Camshaft Profile Control Stuck On (Bank 1)																			
P005C	Exhaust (B) Camshaft Profile Control Performance or Stuck Off (Bank 2)																			
P005D	Exhaust (B) Camshaft Profile Control Stuck On (Bank 2)																			
P005E	Turbocharger/Supercharger Boost Control "B" Supply Voltage Circuit Low																			
P005F	Turbocharger/Supercharger Boost Control "B" Supply Voltage Circuit High																			
P0060	HO2S Heater Resistance (Bank 2 Sensor 2)	G*	g	g																
P0061	HO2S Heater Resistance (Bank 2 Sensor 3)	G*	g	g																
P0062	HO2S Heater Control Circuit (Bank 2 Sensor 3)																			
P0063	HO2S Heater Control Circuit Low (Bank 2 Sensor 3)								M*											
P0064	HO2S Heater Control Circuit High (Bank 2 Sensor 3)								M*											
P0065	Air Assisted Injector Control Range/Performance	G*		g							?									
P0066	Air Assisted Injector Control Circuit or Circuit Low	G*	g	g							?									
P0067	Air Assisted Injector Control Circuit High																			
P0068	MAP / MAF - Throttle Position Correlation	G*																		
P0069	MAP - Barometric Pressure Correlation								D*											
P006A	MAP - Mass or Volume Air Flow Correlation (Bank 1)																			
P006B	MAP - Exhaust Pressure Correlation								D*											
P006C	MAP - Turbocharger/Supercharger Inlet Pressure Correlation																			
P006D	Barometric Pressure - Turbocharger/Supercharger Inlet Pressure Correlation																			
P006E	Turbocharger/Supercharger Boost Control "A" Supply Voltage Circuit Low																			
P006F	Turbocharger/Supercharger Boost Control "A" Supply Voltage Circuit High																			
P0070	Ambient Air Temperature Sensor Circuit																			AAT
P0071	Ambient Air Temperature Sensor Range/Performance																			AAT
P0072	Ambient Air Temperature Sensor Circuit Low													E*						AAT
P0073	Ambient Air Temperature Sensor Circuit High													E*						AAT
P0074	Ambient Air Temperature Sensor Circuit Intermittent/Erratic																			AAT
P0075	Intake Valve Control Circuit (Bank 1)																			
P0076	Intake Valve Control Circuit Low (Bank 1)																			
P0077	Intake Valve Control Circuit High (Bank 1)																			
P0078	Exhaust Valve Control Circuit (Bank 1)																			

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* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER								
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P0079	Exhaust Valve Control Circuit Low (Bank 1)																	
P007A	Charge Air Cooler Temperature Sensor Circuit (Bank 1)																	CACT1
P007B	Charge Air Cooler Temperature Sensor Circuit Range/Performance (Bank 1)																	CACT1
P007C	Charge Air Cooler Temperature Sensor Circuit Low (Bank 1)																	CACT1
P007D	Charge Air Cooler Temperature Sensor Circuit High (Bank 1)																	CACT1
P007E	Charge Air Cooler Temperature Sensor Intermittent/Erratic (Bank 1)																	CACT1
P007F	Charge Air Cooler Temperature Sensor Bank 1 / 2 Correlation																	CACT1
P0080	Exhaust Valve Control Circuit High (Bank 1)																	
P0081	Intake Valve Control Circuit (Bank 2)																	
P0082	Intake Valve Control Circuit Low (Bank 2)																	
P0083	Intake Valve Control Circuit High (Bank 2)																	
P0084	Exhaust Valve Control Circuit (Bank 2)																	
P0085	Exhaust Valve Control Circuit Low (Bank 2)																	
P0086	Exhaust Valve Control Circuit High (Bank 2)																	
P0087	Fuel Rail/System Pressure - Too Low	G						D*										
P0088	Fuel Rail/System Pressure - Too High							D*										
P0089	Fuel Pressure Regulator Performance											E		D*				FPR
P008A	Low Pressure Fuel System Pressure - Too Low							D	d									
P008B	Low Pressure Fuel System Pressure - Too High																	
P008C	Fuel Cooler Pump Control Circuit / Open							D										
P008D	Fuel Cooler Pump Control Circuit Low							D										
P008E	Fuel Cooler Pump Control Circuit High							D										
P008F	Engine Coolant Temperature / Fuel Temperature Correlation							D*	d									
P0090	Fuel Pressure Regulator Control Circuit / Open							D*	d	d				D*				FPR
P0091	Fuel Pressure Regulator Control Circuit Low							D*	d	d	M*		E		D*			FPR
P0092	Fuel Pressure Regulator Control Circuit High							D*	d	d	M*		E					FPR
P0093	Fuel System Leak Detected - Large Leak												E					
P0094	Fuel System Leak Detected - Small Leak																	
P0095	Intake Air Temperature Sensor 2 Circuit (Bank 1)																	IAT21
P0096	Intake Air Temperature Sensor 2 Circuit Range/Performance (Bank 1)							D*			M*							IAT21
P0097	Intake Air Temperature Sensor 2 Circuit Low (Bank 1)							D*	d	d	M*							IAT21
P0098	Intake Air Temperature Sensor 2 Circuit High (Bank 1)							D*	d	d	M*							IAT21
P0099	Intake Air Temperature Sensor 2 Circuit Intermittent/Erratic (Bank 1)							D	d	d								IAT21
P009A	Intake Air Temperature /Ambient Air Temperature Correlation																	
P009B	Fuel Pressure Relief Control Circuit / Open																	
P009C	Fuel Pressure Relief Control Circuit Low																	
P009D	Fuel Pressure Relief Control Circuit High																	
P009E	Fuel Pressure Relief Control Performance / Stuck Off																	
P009F	Fuel Pressure Relief Control Stuck On																	
P00A0	Charge Air Cooler Temperature Sensor Circuit (Bank 2)																	CACT2
P00A1	Charge Air Cooler Temperature Sensor Circuit Range/Performance (Bank 2)																	CACT2
P00A2	Charge Air Cooler Temperature Sensor Circuit Low (Bank 2)																	CACT2
P00A3	Charge Air Cooler Temperature Sensor Circuit High (Bank 2)																	CACT2
P00A4	Charge Air Cooler Temperature Sensor Intermittent/Erratic (Bank 2)																	CACT2
P00A5	Intake Air Temperature Sensor 2 Circuit (Bank 2)																	IAT22
P00A6	Intake Air Temperature Sensor 2 Circuit Range/Performance (Bank 2)																	IAT22
P00A7	Intake Air Temperature Sensor 2 Circuit Low (Bank 2)																	IAT22
P00A8	Intake Air Temperature Sensor 2 Circuit High (Bank 2)																	IAT22
P00A9	Intake Air Temperature Sensor 2 Circuit Intermittent/Erratic (Bank 2)																	IAT22
P00AA	Intake Air Temperature Sensor 1 Circuit (Bank 2)																	IAT12
P00AB	Intake Air Temperature Sensor 1 Circuit Range/Performance (Bank 2)																	IAT12
P00AC	Intake Air Temperature Sensor 1 Circuit Low (Bank 2)																	IAT12
P00AD	Intake Air Temperature Sensor 1 Circuit High (Bank 2)																	IAT12
P00AE	Intake Air Temperature Sensor 1 Circuit Intermittent/Erratic (Bank 2)																	IAT12
P00AF	Turbocharger/Supercharger Boost Control "A" Module Performance																	
P00B0	Turbocharger/Supercharger Boost Control "B" Module Performance																	
P00B1	Radiator Coolant Temperature Sensor Circuit																	
P00B2	Radiator Coolant Temperature Sensor Circuit Range/Performance																	
P00B3	Radiator Coolant Temperature Sensor Circuit Low																	
P00B4	Radiator Coolant Temperature Sensor Circuit High																	
P00B5	Radiator Coolant Temperature Sensor Circuit Intermittent/Erratic																	
P00B6	Radiator Coolant Temperature / Engine Coolant Temperature Correlation																	

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* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	Continuous	KOEO	Continuous	KOEO							Continuous	KOEO	KOER		Continuous	KOEO	KOER	
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P00B7	Engine Coolant Flow Low/Performance																				
P00B8	MAP - Mass or Volume Air Flow Correlation (Bank 2)																				
P00B9	Low Pressure Fuel System Pressure – Too Low, Low Ambient Temperature																				
P00BA	Low Fuel Pressure – Forced Limited Power																				
P00BB	Fuel Injector Insufficient Flow – Forced Limited Power	G																			
P00BC	Mass or Volume Air Flow "A" Circuit Range/Performance - Air Flow Too Low																				
P00BD	Mass or Volume Air Flow "A" Circuit Range/Performance - Air Flow Too High																				
P00BE	Mass or Volume Air Flow "B" Circuit Range/Performance - Air Flow Too Low																				
P00BF	Mass or Volume Air Flow "B" Circuit Range/Performance - Air Flow Too High																				
P00C0																					
Fuel and Air Metering																					
P0100	Mass or Volume Air Flow "A" Circuit																				
P0101	Mass or Volume Air Flow "A" Circuit Range/Performance	G*																			
P0102	Mass or Volume Air Flow "A" Circuit Low	G*+	g																		
P0103	Mass or Volume Air Flow "A" Circuit High	G*+	g	g																	
P0104	Mass or Volume Air Flow "A" Circuit Intermittent/Erratic	G																			
P0105	Manifold Absolute Pressure/BARO Circuit	G*																			
P0106	Manifold Absolute Pressure/BARO Sensor Range/Performance	G*	g																		
P0107	Manifold Absolute Pressure/BARO Sensor Low	G*	g	g																	
P0108	Manifold Absolute Pressure/BARO Sensor High	G*	g	g																	
P0109	Manifold Absolute Pressure/BARO Sensor Intermittent	G																			
P010A	Mass or Volume Air Flow "B" Circuit																				
P010B	Mass or Volume Air Flow "B" Circuit Range/Performance																				
P010C	Mass or Volume Air Flow "B" Circuit Low																				
P010D	Mass or Volume Air Flow "B" Circuit High																				
P010E	Mass or Volume Air Flow "B" Circuit Intermittent/Erratic																				
P010F	Mass or Volume Air Flow Sensor "A" / "B" Correlation																				
P0110	Intake Air Temperature Sensor 1 Circuit (Bank 1)																				
P0111	Intake Air Temperature Sensor 1 Circuit Range/Performance (Bank 1)	G*																			
P0112	Intake Air Temperature Sensor 1 Circuit Low (Bank 1)	G*	g	g																	
P0113	Intake Air Temperature Sensor 1 Circuit High (Bank 1)	G*	g	g																	
P0114	Intake Air Temperature Sensor 1 Intermittent/Erratic (Bank 1)	G																			
P0115	Engine Coolant Temperature Sensor 1 Circuit																				
P0116	Engine Coolant Temperature Sensor 1 Circuit Range/Performance	G*																			
P0117	Engine Coolant Temperature Sensor 1 Circuit Low	G*	g	g																	
P0118	Engine Coolant Temperature Sensor 1 Circuit High	G*	g	g																	
P0119	Engine Coolant Temperature Sensor 1 Circuit Intermittent/Erratic	G																			
P011A	Engine Coolant Temperature Sensor 1 / 2 Correlation																				
P011B	Engine Coolant Temperature / Intake Air Temperature Correlation																				
P011C	Charge Air Temperature / Intake Air Temperature Correlation (Bank 1)																				
P011D	Charge Air Temperature / Intake Air Temperature Correlation (Bank 2)																				
P011E																					
P011F																					
P0120	Throttle/Pedal Position Sensor "A" Circuit	G*																			
P0121	Throttle/Pedal Position Sensor "A" Circuit Range/Performance	G	g																		
P0122	Throttle/Pedal Position Sensor "A" Circuit Low	G*+	g	g																	
P0123	Throttle/Pedal Position Sensor "A" Circuit High	G*+	g	g																	
P0124	Throttle/Pedal Position Sensor "A" Intermittent	G	g	g																	
P0125	Insufficient Coolant Temp For Closed Loop Fuel Control	G*																			
P0126	Insufficient Coolant Temp For Stable Operation	[G]																			
P0127	Intake Air Temperature Too High	G	g	g																	
P0128	Coolant Thermostat (Coolant Temp Below Thermostat Regulating Temperature)	G*																			
P0129	Barometric Pressure Too Low																				
P012A	Turbocharger/Supercharger Inlet Pressure Sensor Circuit																				
P012B	Turbocharger/Supercharger Inlet Pressure Sensor Circuit Range/Performance	G*	g	g																	
P012C	Turbocharger/Supercharger Inlet Pressure Sensor Circuit Low	G*	g	g																	
P012D	Turbocharger/Supercharger Inlet Pressure Sensor Circuit High	G*	g	g																	
P012E	Turbocharger/Supercharger Inlet Pressure Sensor Circuit Intermittent/Erratic	G	g	g																	

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P012F																							
P0130	O2 Sensor Circuit (Bank 1 Sensor 1)	G*		g							M*			N	E*								HO2S11 [AI]
P0131	O2 Sensor Circuit Low Voltage (Bank 1 Sensor 1)	G*									M*	J*			E*						U		HO2S11 [AI]
P0132	O2 Sensor Circuit High Voltage (Bank 1 Sensor 1)	G*		g							M*	J*			E*		e						HO2S11 [AI]
P0133	O2 Sensor Circuit Slow Response (Bank 1 Sensor 1)	G*		g							M*	J*			E*								HO2S11 [AI]
P0134	O2 Sensor Circuit No Activity Detected (Bank 1 Sensor 1)	G*									M*				E*								HO2S11 [AI]
P0135	O2 Sensor Heater Circuit (Bank 1 Sensor 1)	G*	g	g							M	J*		N	E*	e	e						HO2S11 [AI]
P0136	O2 Sensor Circuit (Bank 1 Sensor 2)	G*									M			N	E*								HO2S12 [AI]
P0137	O2 Sensor Circuit Low Voltage (Bank 1 Sensor 2)										M*	J*			E*								HO2S12 [AI]
P0138	O2 Sensor Circuit High Voltage (Bank 1 Sensor 2)	G*		g							M*	J*			E*		e						HO2S12 [AI]
P0139	O2 Sensor Circuit Slow Response (Bank 1 Sensor 2)	G*									M*	J			E*								HO2S12 [AI]
P013A	O2 Sensor Slow Response - Rich to Lean (Bank 1 Sensor 2)	G*																					HO2S12 [AI]
P013B	O2 Sensor Slow Response - Lean to Rich (Bank 1 Sensor 2)																						HO2S12 [AI]
P013C	O2 Sensor Slow Response - Rich to Lean (Bank 2 Sensor 2)	G*																					HO2S22 [AI]
P013D	O2 Sensor Slow Response - Lean to Rich (Bank 2 Sensor 2)																						HO2S22 [AI]
P013E	O2 Sensor Delayed Response - Rich to Lean (Bank 1 Sensor 2)	G*																					
P013F	O2 Sensor Delayed Response - Lean to Rich (Bank 1 Sensor 2)																						
P0140	O2 Sensor Circuit No Activity Detected (Bank 1 Sensor 2)										M*	J*			E								HO2S12 [AI]
P0141	O2 Sensor Heater Circuit (Bank 1 Sensor 2)	G*	g	g							M			N	E*	e	e						HO2S12 [AI]
P0142	O2 Sensor Circuit (Bank 1 Sensor 3)										M												HO2S13 [AI]
P0143	O2 Sensor Circuit Low Voltage (Bank 1 Sensor 3)																						HO2S13 [AI]
P0144	O2 Sensor Circuit High Voltage (Bank 1 Sensor 3)	G*		g							M*												HO2S13 [AI]
P0145	O2 Sensor Circuit Slow Response (Bank 1 Sensor 3)																						HO2S13 [AI]
P0146	O2 Sensor Circuit No Activity Detected (Bank 1 Sensor 3)										M*												HO2S13 [AI]
P0147	O2 Sensor Heater Circuit (Bank 1 Sensor 3)	G*	g	g							M												HO2S13 [AI]
P0148	Fuel Delivery Error	G*													E						D		
P0149	Fuel Timing Error																				D		
P014A	O2 Sensor Delayed Response - Rich to Lean (Bank 2 Sensor 2)	G*																					
P014B	O2 Sensor Delayed Response - Lean to Rich (Bank 2 Sensor 2)																						
P014C	O2 Sensor Slow Response - Rich to Lean (Bank 1 Sensor 1)																						
P014D	O2 Sensor Slow Response - Lean to Rich (Bank 1 Sensor 1)																						
P014E	O2 Sensor Slow Response - Rich to Lean (Bank 2 Sensor 1)																						
P014F	O2 Sensor Slow Response - Lean to Rich (Bank 2 Sensor 1)																						
P0150	O2 Sensor Circuit (Bank 2 Sensor 1)	G*		g							M												HO2S21 [AI]
P0151	O2 Sensor Circuit Low Voltage (Bank 2 Sensor 1)	G*									M*	J*									U		HO2S21 [AI]
P0152	O2 Sensor Circuit High Voltage (Bank 2 Sensor 1)	G*		g							M*	J*			E*	e	e						HO2S21 [AI]
P0153	O2 Sensor Circuit Slow Response (Bank 2 Sensor 1)	G*									M*	J*			E*								HO2S21 [AI]
P0154	O2 Sensor Circuit No Activity Detected (Bank 2 Sensor 1)	G*		g							M*												HO2S21 [AI]
P0155	O2 Sensor Heater Circuit (Bank 2 Sensor 1)	G*	g	g							M	J*			E*	e	e						HO2S21 [AI]
P0156	O2 Sensor Circuit (Bank 2 Sensor 2)	G*													E*								HO2S22 [AI]
P0157	O2 Sensor Circuit Low Voltage (Bank 2 Sensor 2)										M*	J*											HO2S22 [AI]
P0158	O2 Sensor Circuit High Voltage (Bank 2 Sensor 2)	G*		g							M*	J*			E*	e	e						HO2S22 [AI]
P0159	O2 Sensor Circuit Slow Response (Bank 2 Sensor 2)	G*									M*	J											HO2S22 [AI]
P015A	O2 Sensor Delayed Response - Rich to Lean (Bank 1 Sensor 1)																						
P015B	O2 Sensor Delayed Response - Lean to Rich (Bank 1 Sensor 1)																						
P015C	O2 Sensor Delayed Response - Rich to Lean (Bank 2 Sensor 1)																						
P015D	O2 Sensor Delayed Response - Lean to Rich (Bank 2 Sensor 1)																						
P015E																							
P015F																							
P0160	O2 Sensor Circuit No Activity Detected (Bank 2 Sensor 2)										M*	J*											HO2S22 [AI]
P0161	O2 Sensor Circuit Heater Circuit (Bank 2 Sensor 2)	G*	g	g											E*	e	e						HO2S22 [AI]
P0162	O2 Sensor Circuit (Bank 2 Sensor 3)																						HO2S23 [AI]
P0163	O2 Sensor Circuit Low Voltage (Bank 2 Sensor 3)																						HO2S23 [AI]
P0164	O2 Sensor Circuit High Voltage (Bank 2 Sensor 3)	G*		g							M*												HO2S23 [AI]
P0165	O2 Sensor Circuit Slow Response (Bank 2 Sensor 3)																						HO2S23 [AI]
P0166	O2 Sensor Circuit No Activity Detected (Bank 2 Sensor 3)										M*												HO2S23 [AI]
P0167	O2 Sensor Heater Circuit (Bank 2 Sensor 3)	G*	g	g																			HO2S23 [AI]
P0168	Engine Fuel Temperature Too High																				D		EFT
P0169	Incorrect Fuel Composition																						
P016A																							
P016B																							
P016C																							



OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel	Spark Ignition			
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER								
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P020A	Cylinder 1 Injection Timing																	
P020B	Cylinder 2 Injection Timing																	
P020C	Cylinder 3 Injection Timing																	
P020D	Cylinder 4 Injection Timing																	
P020E	Cylinder 5 Injection Timing																	
P020F	Cylinder 6 Injection Timing																	
P0210	Cylinder 10 Injector Circuit / Open	G*	g	g													INJ-10 [DO]	
P0211	Cylinder 11 Injector Circuit / Open	G*	g	g													INJ-11 [DO]	
P0212	Cylinder 12 Injector Circuit / Open	G*	g	g													INJ-12 [DO]	
P0213	Cold Start Injector 1	G*																
P0214	Cold Start Injector 2																	
P0215	Engine Shutoff Solenoid																	
P0216	Injector/Injection Timing Control Circuit							D+							D*			
P0217	Engine Coolant Over Temperature Condition	G	g	g														ECT
P0218	Transmission Fluid Over Temperature Condition	G	g	g	T*													TFT
P0219	Engine Overspeed Condition	G			T*		D		M				E					
P021A	Cylinder 7 Injection Timing																	
P021B	Cylinder 8 Injection Timing																	
P021C	Cylinder 9 Injection Timing																	
P021D	Cylinder 10 Injection Timing																	
P021E	Cylinder 11 Injection Timing																	
P021F	Cylinder 12 Injection Timing																	
P0220	Throttle/Pedal Position Sensor/Switch "B" Circuit							d	d				E*					TP-B [AI]
P0221	Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance	G	g	g				D*		M*			E					TP-B [AI]
P0222	Throttle/Pedal Position Sensor/Switch "B" Circuit Low	G*	g	g			D	d	d	M*	J*		E*	e	e			TP-B [AI]
P0223	Throttle/Pedal Position Sensor/Switch "B" Circuit High	G*	g	g			D	d	d	M*	J*		E*	e	e			TP-B [AI]
P0224	Throttle/Pedal Position Sensor/Switch "B" Circuit Intermittent	G	g	g						M	J		E					TP-B [AI]
P0225	Throttle/Pedal Position Sensor/Switch "C" Circuit																	TP-C [AI]
P0226	Throttle/Pedal Position Sensor/Switch "C" Circuit Range/Performance																	TP-C [AI]
P0227	Throttle/Pedal Position Sensor/Switch "C" Circuit Low	G	g	g			D	d	d									TP-C [AI]
P0228	Throttle/Pedal Position Sensor/Switch "C" Circuit High	G	g	g			D	d	d									TP-C [AI]
P0229	Throttle/Pedal Position Sensor/Switch "C" Circuit Intermittent	G	g	g														TP-C [AI]
P022A	Charge Air Cooler Bypass Control "A" Circuit /Open																	
P022B	Charge Air Cooler Bypass Control "A" Circuit Low																	
P022C	Charge Air Cooler Bypass Control "A" Circuit High																	
P022D	Charge Air Cooler Bypass Control "B" Circuit /Open																	
P022E	Charge Air Cooler Bypass Control "B" Circuit Low																	
P022F	Charge Air Cooler Bypass Control "B" Circuit High																	
P0230	Fuel Pump Primary Circuit	G	g	g			D	d	d	M			E	e	e	D*	U	FP [DO]
P0231	Fuel Pump Secondary Circuit Low	G	g	g			D*	d	d				E	e	e	D*		FP [DO]
P0232	Fuel Pump Secondary Circuit High	G	g				D	d	d				E	e				FP [DO]
P0233	Fuel Pump Secondary Circuit Intermittent												E					
P0234	Turbocharger/Supercharger "A" Overboost Condition	G	g	g			D									D		TC/SC
P0235	Turbocharger/Supercharger Boost Sensor "A" Circuit						D									D*		TC/SCB-A
P0236	Turbocharger/Supercharger Boost Sensor "A" Circuit Range/Performance						D*	d										TC/SCB-A
P0237	Turbocharger/Supercharger Boost Sensor "A" Circuit Low	G*					D*	d	d									TC/SCB-A
P0238	Turbocharger/Supercharger Boost Sensor "A" Circuit High	G*					D*	d	d									TC/SCB-A
P0239	Turbocharger/Supercharger Boost Sensor "B" Circuit																	TC/SCB-B
P023A	Charge Air Cooler Coolant Pump Control Circuit/Open																	
P023B	Charge Air Cooler Coolant Pump Control Circuit Low																	
P023C	Charge Air Cooler Coolant Pump Control Circuit High																	
P023D	Manifold Absolute Pressure - Turbocharger/Supercharger Boost Sensor "A" Correlation																	
P023E	Manifold Absolute Pressure - Turbocharger/Supercharger Boost Sensor "B" Correlation																	
P023F	Fuel Pump Secondary Circuit / Open																	
P0240	Turbocharger/Supercharger Boost Sensor "B" Circuit Range/Performance																	TC/SCB-B
P0241	Turbocharger/Supercharger Boost Sensor "B" Circuit Low																	TC/SCB-B
P0242	Turbocharger/Supercharger Boost Sensor "B" Circuit High																	TC/SCB-B
P0243	Turbocharger/Supercharger Wastegate Solenoid "A"	G	g	g												D*		TCWGS-A
P0244	Turbocharger/Supercharger Wastegate Solenoid "A" Range/Performance																	TCWGS-A
P0245	Turbocharger/Supercharger Wastegate Solenoid "A" Low									M*								TCWGS-A
P0246	Turbocharger/Supercharger Wastegate Solenoid "A" High									M*								TCWGS-A
P0247	Turbocharger/Supercharger Wastegate Solenoid B																	TCWGS-B

OBD-II Diagnostic Trouble Code Definitions		North America										Europe			Australia			SAE J1930 Component/ System and I/O Type				
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel	Spark Ignition							
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER					Continuous	KOEO	KOER	Continuous	KOEO	KOER		
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P0248	Turbocharger/Supercharger Wastegate Solenoid "B" Range/Performance																					TCWGS-B
P0249	Turbocharger/Supercharger Wastegate Solenoid "B" Low																					TCWGS-B
P024A	Charge Air Cooler Bypass Control "A" Range/Performance																					
P024B	Charge Air Cooler Bypass Control "A" Stuck																					
P024C	Charge Air Cooler Bypass Position Sensor "A" Circuit																					
P024D	Charge Air Cooler Bypass Position Sensor "A" Circuit Range/Performance																					
P024E	Charge Air Cooler Bypass Position Sensor "A" Circuit Low																					
P024F	Charge Air Cooler Bypass Position Sensor "A" Circuit High																					
P0250	Turbocharger/Supercharger Wastegate Solenoid "B" High																					TCWGS-B
P0251	Injection Pump Fuel Metering Control "A"										M											D*
P0252	Injection Pump Fuel Metering Control "A" Range/Performance																					D*
P0253	Injection Pump Fuel Metering Control "A" Low																					
P0254	Injection Pump Fuel Metering Control "A" High																					
P0255	Injection Pump Fuel Metering Control "A" Intermittent																					
P0256	Injection Pump Fuel Metering Control B																					D*
P0257	Injection Pump Fuel Metering Control "B" Range/Performance																					
P0258	Injection Pump Fuel Metering Control "B" Low																					
P0259	Injection Pump Fuel Metering Control "B" High																					
P025A	Fuel Pump Module Control Circuit/Open	G	g	g																		
P025B	Fuel Pump Module Control Circuit Range/Performance	G	g	g																		
P025C	Fuel Pump Module Control Circuit Low																					
P025D	Fuel Pump Module Control Circuit High																					
P025E																						
P025F																						
P0260	Injection Pump Fuel Metering Control "B" Intermittent																					
P0261	Cylinder 1 Injector Circuit Low	G	g	g				D*	d	d				E*								INJ-1 [DO]
P0262	Cylinder 1 Injector Circuit High	G	g	g				D*	d	d				E*								INJ-1 [DO]
P0263	Cylinder 1 Contribution/Balance							D	d								D	U				
P0264	Cylinder 2 Injector Circuit Low	G	g	g				D*	d	d				E*								INJ-2 [DO]
P0265	Cylinder 2 Injector Circuit High	G	g	g				D*	d	d				E*								INJ-2 [DO]
P0266	Cylinder 2 Contribution/Balance							D	d								D	U				
P0267	Cylinder 3 Injector Circuit Low	G	g	g				D*	d	d				E*								INJ-3 [DO]
P0268	Cylinder 3 Injector Circuit High	G	g	g				D*	d	d				E*								INJ-3 [DO]
P0269	Cylinder 3 Contribution/Balance							D	d								D	U				
P026A																						
P026B																						
P026C																						
P026D																						
P026E																						
P026F																						
P0270	Cylinder 4 Injector Circuit Low	G	g	g				D*	d	d				E*								INJ-4 [DO]
P0271	Cylinder 4 Injector Circuit High	G	g	g				D*	d	d				E*								INJ-4 [DO]
P0272	Cylinder 4 Contribution/Balance							D	d								D	U				
P0273	Cylinder 5 Injector Circuit Low	G	g	g				D*	d	d												INJ-5 [DO]
P0274	Cylinder 5 Injector Circuit High	G	g	g				D*	d	d												INJ-5 [DO]
P0275	Cylinder 5 Contribution/Balance							D	d									U				
P0276	Cylinder 6 Injector Circuit Low	G	g	g				D*	d	d												INJ-6 [DO]
P0277	Cylinder 6 Injector Circuit High	G	g	g				D*	d	d												INJ-6 [DO]
P0278	Cylinder 6 Contribution/Balance							D	d									U				
P0279	Cylinder 7 Injector Circuit Low	G	g	g				D*	d	d												INJ-7 [DO]
P027A																						
P027B																						
P027C																						
P027D																						
P027E																						
P027F																						
P0280	Cylinder 7 Injector Circuit High	G	g	g				D*	d	d												INJ-7 [DO]
P0281	Cylinder 7 Contribution/Balance							D	d									U				
P0282	Cylinder 8 Injector Circuit Low	G	g	g				D*	d	d												INJ-8 [DO]
P0283	Cylinder 8 Injector Circuit High	G	g	g				D*	d	d												INJ-8 [DO]
P0284	Cylinder 8 Contribution/Balance							D	d									U				
P0285	Cylinder 9 Injector Circuit Low																					INJ-9 [DO]







OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel	Spark Ignition			
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOER	Continuous	KOER	Continuous	KOER					Continuous	KOER	KOER	Continuous	KOER	KOER	
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P0303	Cylinder 3 Misfire Detected	G*				D*		M*	J*	N		E*						
P0304	Cylinder 4 Misfire Detected	G*				D*		M*	J*	N		E*						
P0305	Cylinder 5 Misfire Detected	G*				D*		M*	J*	N		E*						
P0306	Cylinder 6 Misfire Detected	G*				D*		M*	J*	N		E*						
P0307	Cylinder 7 Misfire Detected	G*				D*		M*	J*									
P0308	Cylinder 8 Misfire Detected	G*				D*		M*	J*									
P0309	Cylinder 9 Misfire Detected	G*						M*	J*									
P0310	Cylinder 10 Misfire Detected	G*						M*	J*									
P0311	Cylinder 11 Misfire Detected							M*	J*									
P0312	Cylinder 12 Misfire Detected							M*	J*									
P0313	Misfire Detected With Low Fuel																	
P0314	Single Cylinder Misfire (Cylinder not Specified)														D*			
P0315	Crankshaft Position System Variation Not Learned	G*										E*						
P0316	Misfire Detected On Startup (First 1000 Revolutions)	G*																
P0317	Rough Road Hardware Not Present																	
P0318	Rough Road Sensor "A" Signal Circuit																	
P0319	Rough Road Sensor "B" Signal Circuit																	
P031A																		
P031B																		
P031C																		
P031D																		
P031E																		
P031F																		
P0320	Ignition/Distributor Engine Speed Input Circuit	G*						M				E			U			CKP
P0321	Ignition/Distributor Engine Speed Input Circuit Range/Performance	G*+										E*						CKP
P0322	Ignition/Distributor Engine Speed Input Circuit No Signal	G*																CKP
P0323	Ignition/Distributor Engine Speed Input Circuit Intermittent																	CKP
P0324	Knock Control System Error											E						
P0325	Knock Sensor 1 Circuit (Bank 1)	G	g					M*		N	E			D*	U			KS-1
P0326	Knock Sensor 1 Circuit Range/Performance (Bank 1)	G*	g						J*									KS-1
P0327	Knock Sensor 1 Circuit Low (Bank 1)							M*	J*		E				U			KS-1
P0328	Knock Sensor 1 Circuit High (Bank 1)							M*	J*		E							KS-1
P0329	Knock Sensor 1 Circuit Intermittent (Bank 1)																	KS-1
P032A	Knock Sensor 3 Circuit (Bank 1)																	KS-3
P032B	Knock Sensor 3 Circuit Range/Performance (Bank 1)																	KS-3
P032C	Knock Sensor 3 Circuit Low (Bank 1)																	KS-3
P032D	Knock Sensor 3 Circuit High (Bank 1)																	KS-3
P032E	Knock Sensor 3 Circuit Intermittent (Bank 1)																	KS-3
P032F																		
P0330	Knock Sensor 2 Circuit (Bank 2)	G	g					M										KS-2
P0331	Knock Sensor 2 Circuit Range/Performance (Bank 2)	G*	g						J									KS-2
P0332	Knock Sensor 2 Circuit Low (Bank 2)								J*									KS-2
P0333	Knock Sensor 2 Circuit High (Bank 2)								J*									KS-2
P0334	Knock Sensor 2 Circuit Intermittent (Bank 2)																	KS-2
P0335	Crankshaft Position Sensor "A" Circuit	[G]				D*	d	M*	J*	N	E*			D*				CKP
P0336	Crankshaft Position Sensor "A" Circuit Range/Performance					D*	d	M*	J*		E*			D				CKP
P0337	Crankshaft Position Sensor "A" Circuit Low					D*	d				E							CKP
P0338	Crankshaft Position Sensor "A" Circuit High					D*	d				E							CKP
P0339	Crankshaft Position Sensor "A" Circuit Intermittent																	CKP
P033A	Knock Sensor 4 Circuit (Bank 2)																	KS-4
P033B	Knock Sensor 4 Circuit Range/Performance (Bank 2)																	KS-4
P033C	Knock Sensor 4 Circuit Low (Bank 2)																	KS-4
P033D	Knock Sensor 4 Circuit High (Bank 2)																	KS-4
P033E	Knock Sensor 4 Circuit Intermittent (Bank 2)																	KS-4
P033F																		
P0340	Camshaft Position Sensor "A" Circuit (Bank 1 or single sensor)	G*				D*	d	M*	J*	N	E*			D*	U			CMP
P0341	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or single sensor)	G*				D*	d	M*	J*		E*			D*				CMP
P0342	Camshaft Position Sensor "A" Circuit Low (Bank 1 or single sensor)					D*	d				E							CMP
P0343	Camshaft Position Sensor "A" Circuit High (Bank 1 or single sensor)										E							CMP
P0344	Camshaft Position Sensor "A" Circuit Intermittent (Bank 1 or single sensor)	G*				D*	d											CMP
P0345	Camshaft Position Sensor "A" Circuit (Bank 2)	G*						M*										
P0346	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 2)	G*																

OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type					
		Spark Ignition PCM																					
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER					Continuous	KOEO	KOER	Continuous	KOEO	KOER			
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P0347	Camshaft Position Sensor "A" Circuit Low (Bank 2)																						
P0348	Camshaft Position Sensor "A" Circuit High (Bank 2)																						
P0349	Camshaft Position Sensor "A" Circuit Intermittent (Bank 2)	G*																					
P034A																							
P034B																							
P034C																							
P034D																							
P034E																							
P034F																							
P0350	Ignition Coil Primary/Secondary Circuit	G*									M			E*				U					COP
P0351	Ignition Coil "A" Primary/Secondary Circuit	G*									M*	J*		E*				U					COP-A
P0352	Ignition Coil "B" Primary/Secondary Circuit	G*									M*	J*		E*				U					COP-B
P0353	Ignition Coil "C" Primary/Secondary Circuit	G*									M*	J*		E*				U					COP-C
P0354	Ignition Coil "D" Primary/Secondary Circuit	G*									M*	J*						U					COP-D
P0355	Ignition Coil "E" Primary/Secondary Circuit	G*									M*	J*											COP-E
P0356	Ignition Coil "F" Primary/Secondary Circuit	G*									M*	J*											COP-F
P0357	Ignition Coil "G" Primary/Secondary Circuit	G*										J*											COP-G
P0358	Ignition Coil "H" Primary/Secondary Circuit	G*										J*											COP-H
P0359	Ignition Coil "I" Primary/Secondary Circuit	G*																					COP-I
P0360	Ignition Coil "J" Primary/Secondary Circuit	G*																					COP-J
P0361	Ignition Coil "K" Primary/Secondary Circuit																						COP-K
P0362	Ignition Coil "L" Primary/Secondary Circuit																						COP-L
P0363	Misfire Detected - Fueling Disabled																						
P0364																							
P0365	Camshaft Position Sensor "B" Circuit (Bank 1)																						CMP
P0366	Camshaft Position Sensor "B" Circuit Range/Performance (Bank 1)																						CMP
P0367	Camshaft Position Sensor "B" Circuit Low (Bank 1)																						CMP
P0368	Camshaft Position Sensor "B" Circuit High (Bank 1)																						CMP
P0369	Camshaft Position Sensor "B" Circuit Intermittent (Bank 1)																						CMP
P036A																							
P036B																							
P036C																							
P036D																							
P036E																							
P036F																							
P0370	Timing Reference High Resolution Signal "A"																						
P0371	Timing Reference High Resolution Signal "A" Too Many Pulses																						
P0372	Timing Reference High Resolution Signal "A" Too Few Pulses																						
P0373	Timing Reference High Resolution Signal "A" Intermittent																						
P0374	Timing Reference High Resolution Signal "A" No Pulses																						
P0375	Timing Reference High Resolution Signal B																						
P0376	Timing Reference High Resolution Signal "B" Too Many Pulses																						
P0377	Timing Reference High Resolution Signal "B" Too Few Pulses																						
P0378	Timing Reference High Resolution Signal "B" Intermittent																						
P0379	Timing Reference High Resolution Signal "B" No Pulses																						
P037A																							
P037B																							
P037C																							
P037D	Glow Plug Sense Circuit																						
P037E	Glow Plug Sense Circuit Low																						
P037F	Glow Plug Sense Circuit High																						
P0380	Glow Plug/Heater Circuit A										D*	d	d					D*					Glow Plug-A
P0381	Glow Plug/Heater Indicator Circuit										D*	d	d					D*					Glow Plug
P0382	Glow Plug/Heater Circuit B																						Glow Plug-B
P0383	Glow Plug Control Module Control Circuit Low																						
P0384	Glow Plug Control Module Control Circuit High																						
P0385	Crankshaft Position Sensor "B" Circuit	G*		g																			CKP-B
P0386	Crankshaft Position Sensor "B" Circuit Range/Performance																						CKP-B
P0387	Crankshaft Position Sensor "B" Circuit Low																						CKP-B
P0388	Crankshaft Position Sensor "B" Circuit High																						CKP-B
P0389	Crankshaft Position Sensor "B" Circuit Intermittent																						CKP-B
P038A																							

OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel	Spark Ignition			
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	Continuous	KOEO	Continuous	KOEO					Continuous	KOEO		Continuous	KOEO	Continuous	KOEO
Capital and small usage letters are used for visual impact only! Mazda, Nissan and Land Rover legacy DTCs are for reference. Ford P/T was not responsible for assigning these DTCs. Shading indicates change from previous version.																		A = Analog D = Digital F = Frequency I = Input O = Output
P038B																		
P038C																		
P038D																		
P038E																		
P038F																		
P0390	Camshaft Position Sensor "B" Circuit (Bank 2)																	CMP-B
P0391	Camshaft Position Sensor "B" Circuit Range/Performance (Bank 2)																	CMP-B
P0392	Camshaft Position Sensor "B" Circuit Low (Bank 2)																	CMP-B
P0393	Camshaft Position Sensor "B" Circuit High (Bank 2)																	CMP-B
P0394	Camshaft Position Sensor "B" Circuit Intermittent (Bank 2)																	CMP-B
P0395																		
P0396																		
P0397																		
P0398																		
P0399																		
P039A																		
P039B																		
P039C																		
P039D																		
P039E																		
P039F																		
Auxiliary Emission Controls																		
P0400	Exhaust Gas Recirculation "A" Flow	G*	g	g				M	J*		N	E*	e	e				
P0401	Exhaust Gas Recirculation "A" Flow Insufficient Detected	G*				D*		M*				E*						
P0402	Exhaust Gas Recirculation "A" Flow Excessive Detected	G*	g	g		D*		M*			N	E*		e				
P0403	Exhaust Gas Recirculation "A" Control Circuit	G*	g	g		D*	d	d	M*						D*			
P0404	Exhaust Gas Recirculation "A" Control Circuit Range/Performance					D*		M							D*			
P0405	Exhaust Gas Recirculation Sensor "A" Circuit Low	G*	g	g		D*	d	d	J*									
P0406	Exhaust Gas Recirculation Sensor "A" Circuit High	G*	g	g		D*	d	d	J*									
P0407	Exhaust Gas Recirculation Sensor "B" Circuit Low					D*	d	d										
P0408	Exhaust Gas Recirculation Sensor "B" Circuit High					D*	d	d										
P0409	Exhaust Gas Recirculation Sensor "A" Circuit					D*									D*			
P040A	Exhaust Gas Recirculation Temperature Sensor "A" Circuit																	EGRT-A
P040B	Exhaust Gas Recirculation Temperature Sensor "A" Circuit Range/Performance					D												EGRT-A
P040C	Exhaust Gas Recirculation Temperature Sensor "A" Circuit Low					D	d	d										EGRT-A
P040D	Exhaust Gas Recirculation Temperature Sensor "A" Circuit High					D	d	d										EGRT-A
P040E	Exhaust Gas Recirculation Temperature Sensor "A" Circuit Intermittent/Erratic					D	d	d										EGRT-A
P040F	Exhaust Gas Recirculation Temperature Sensor "A" / "B" Correlation					D												
P0410	Secondary Air Injection System	G*	g					M										AIR SYS
P0411	Secondary Air Injection Incorrect Upstream Flow Detected	G*	g						J*			E*		e				
P0412	Secondary Air Injection Switching Valve "A" Circuit	G*	g	g				M				E*	e	e				
P0413	Secondary Air Injection Switching Valve "A" Circuit Open	G*	g	g					J*			E*	e	e				
P0414	Secondary Air Injection Switching Valve "A" Circuit Shorted	G*	g	g					J			E*	e	e				
P0415	Secondary Air Injection Switching Valve "B" Circuit											E						
P0416	Secondary Air Injection Switching Valve "B" Circuit Open	G*	g	g														
P0417	Secondary Air Injection Switching Valve "B" Circuit Shorted	G*	g	g														
P0418	Secondary Air Injection System Control "A" Circuit																	
P0419	Secondary Air Injection System Control "B" Circuit																	
P041A	Exhaust Gas Recirculation Temperature Sensor "B" Circuit																	EGRT-B
P041B	Exhaust Gas Recirculation Temperature Sensor "B" Circuit Range/Performance					D*												EGRT-B
P041C	Exhaust Gas Recirculation Temperature Sensor "B" Circuit Low					D*	d	d										EGRT-B
P041D	Exhaust Gas Recirculation Temperature Sensor "B" Circuit High					D*	d	d										EGRT-B
P041E	Exhaust Gas Recirculation Temperature Sensor "B" Circuit Intermittent/Erratic					D	d	d										EGRT-B
P041F	Secondary Air Injection Switching Valve "A" Circuit Low																	
P0420	Catalyst System Efficiency Below Threshold (Bank 1)	G*				D*			M*	J*		N	E*					TWC-1
P0421	Warm Up Catalyst Efficiency Below Threshold (Bank 1)								M*	J*								WU-TWC-1
P0422	Main Catalyst Efficiency Below Threshold (Bank 1)																	
P0423	Heated Catalyst Efficiency Below Threshold (Bank 1)																	
P0424	Heated Catalyst Temperature Below Threshold (Bank 1)																	
P0425	Catalyst Temperature Sensor Circuit (Bank 1, Sensor Circuit 1)																	
P0426	Catalyst Temperature Sensor Circuit Range/Performance (Bank 1, Sensor Circuit 1)									J*								
P0427	Catalyst Temperature Sensor Circuit Low (Bank 1, Sensor Circuit 1)									J*								



OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type		
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel	Spark Ignition					
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER										
Capital and small usage letters are used for visual impact only! Mazda, Nissan and Land Rover legacy DTCs are for reference. Ford P/T was not responsible for assigning these DTCs. Shading indicates change from previous version.																				
P0466	Evaporative Emission System Purge Flow Sensor Circuit Range/Performance																			
P0467	Evaporative Emission System Purge Flow Sensor Circuit Low																			
P0468	Evaporative Emission System Purge Flow Sensor Circuit High																			
P0469	Evaporative Emission System Purge Flow Sensor Circuit Intermittent																			
P046A	Catalyst Temperature Sensor 1 / 2 Correlation (Bank 1)																			
P046B	Catalyst Temperature Sensor 1 / 2 Correlation (Bank 2)																			
P046C	Exhaust Gas Recirculation Sensor "A" Range/Performance																			
P046D	Exhaust Gas Recirculation Sensor "A" Intermittent/Erratic																			
P046E	Exhaust Gas Recirculation Sensor "B" Range/Performance																			
P046F	Exhaust Gas Recirculation Sensor "B" Intermittent/Erratic																			
P0470	Exhaust Pressure Sensor "A" Circuit							D*	d		M									EP
P0471	Exhaust Pressure Sensor "A" Circuit Range/Performance							D*												EP
P0472	Exhaust Pressure Sensor "A" Circuit Low							D*	d	d										EP
P0473	Exhaust Pressure Sensor "A" Circuit High							D*	d	d										EP
P0474	Exhaust Pressure Sensor "A" Circuit Intermittent/Erratic							D	d	d										EP
P0475	Exhaust Pressure Control Valve "A"							D*	d											
P0476	Exhaust Pressure Control Valve "A" Range/Performance									d										
P0477	Exhaust Pressure Control Valve "A" Low																			
P0478	Exhaust Pressure Control Valve "A" High							D*												
P0479	Exhaust Pressure Control Valve "A" Intermittent																			
P047A	Exhaust Pressure Sensor "B" Circuit																			
P047B	Exhaust Pressure Sensor "B" Circuit Range/Performance																			
P047C	Exhaust Pressure Sensor "B" Circuit Low																			
P047D	Exhaust Pressure Sensor "B" Circuit High																			
P047E	Exhaust Pressure Sensor "B" Circuit Intermittent/Erratic																			
P047F	Exhaust Pressure Control Valve "A" Stuck Open																			
P0480	Fan 1 Control Circuit	G	g	g				D	d	d	M			E	e	e		U		FC-1
P0481	Fan 2 Control Circuit	G	g	g							M			E	e	e		U		FC-2
P0482	Fan 3 Control Circuit	G	g	g							M	J		E	e	e				FC-3
P0483	Fan Performance	G	g																	FC
P0484	Fan Current																			FC
P0485	Fan Power/Ground Circuit																			FC
P0486	Exhaust Gas Recirculation Sensor "B" Circuit																			D*
P0487	Exhaust Gas Recirculation Throttle Control Circuit "A" / Open							D*	d	d										D*
P0488	Exhaust Gas Recirculation Throttle Control Circuit "A" Range/Performance							D+	d	d										D*
P0489	Exhaust Gas Recirculation "A" Control Circuit Low											M*								
P048A	Exhaust Pressure Control Valve "A" Stuck Closed																			
P048B	Exhaust Pressure Control Valve "A" Position Sensor/Switch Circuit																			
P048C	Exhaust Pressure Control Valve "A" Position Sensor/Switch Circuit Range/Performance																			
P048D	Exhaust Pressure Control Valve "A" Position Sensor/Switch Circuit Low																			
P048E	Exhaust Pressure Control Valve "A" Position Sensor/Switch Circuit High																			
P048F	Exhaust Pressure Control Valve "A" Position Sensor/Switch Circuit Intermittent/Erratic																			
P0490	Exhaust Gas Recirculation "A" Control Circuit High											M*								
P0491	Secondary Air Injection System Insufficient Flow (Bank 1)	G*	g																	
P0492	Secondary Air Injection System Insufficient Flow (Bank 2)																			
P0493	Fan Overspeed (clutch locked)																			
P0494	Fan Speed Low							D	d											
P0495	Fan Speed High							D	d											
P0496	Evaporative Emission System High Purge Flow																			
P0497	Evaporative Emission System Low Purge Flow																			
P0498	Evaporative Emission System Vent Control Circuit Low																			
P0499	Evaporative Emission System Vent Control Circuit High																			
P049A	Exhaust Gas Recirculation "B" Flow																			
P049B	Exhaust Gas Recirculation "B" Flow Insufficient Detected																			
P049C	Exhaust Gas Recirculation "B" Flow Excessive Detected																			
P049D	Exhaust Gas Recirculation "A" Control Position Exceeded Learning Limit																			
P049E	Exhaust Gas Recirculation "B" Control Position Exceeded Learning Limit																			
P049F	Exhaust Pressure Control Valve B																			
P04A0	Exhaust Pressure Control Valve "B" Range/Performance																			
P04A1	Exhaust Pressure Control Valve "B" Low																			
P04A2	Exhaust Pressure Control Valve "B" High																			
P04A3	Exhaust Pressure Control Valve "B" Intermittent																			

OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type		
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel	Spark Ignition					
	* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used	Continuous	KOER	Continuous	KOER	Continuous	KOER					Continuous	KOER	KOER	Continuous	KOER	KOER			
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P04A4	Exhaust Pressure Control Valve "B" Stuck Open																			
P04A5	Exhaust Pressure Control Valve "B" Stuck Closed																			
P04A6	Exhaust Pressure Control Valve "B" Position Sensor/Switch Circuit																			
P04A7	Exhaust Pressure Control Valve "B" Position Sensor/Switch Circuit Range/Performance																			
P04A8	Exhaust Pressure Control Valve "B" Position Sensor/Switch Circuit Low																			
P04A9	Exhaust Pressure Control Valve "B" Position Sensor/Switch Circuit High																			
P04AA	Exhaust Pressure Control Valve "B" Position Sensor/Switch Circuit Intermittent/Erratic																			
Vehicle Speed, Idle Control and Auxiliary Inputs																				
P0500	Vehicle Speed Sensor "A"	G*				D*	d	d	M*	J*		N	E*		D*	U			VSS	
P0501	Vehicle Speed Sensor "A" Range/Performance	G				D	d	d	M*										VSS	
P0502	Vehicle Speed Sensor "A" Circuit Low																		VSS	
P0503	Vehicle Speed Sensor "A" Intermittent/Erratic/High	G				D	d	d					E*						VSS	
P0504	Brake Switch "A" / "B" Correlation	G				D	d	d					E							
P0505	Idle Air Control System			g					M*		N	E	e						IAC	
P0506	Idle Air Control System RPM Lower Than Expected	G*							M*	J*		E			U				IAC	
P0507	Idle Air Control System RPM Higher Than Expected	G*							M*	J*		E			U				IAC	
P0508	Idle Air Control System Circuit Low												E*						IAC	
P0509	Idle Air Control System Circuit High												E*						IAC	
P050A	Cold Start Idle Air Control System Performance	G*																		
P050B	Cold Start Ignition Timing Performance	G*																		
P050C	Cold Start Engine Coolant Temperature Performance																			
P050D	Cold Start Rough Idle																			
P050E	Cold Start Engine Exhaust Temperature Too Low	G*																		
P050F	Brake Assist Vacuum Too Low																			
P0510	Closed Throttle Position Switch								M*										CTP	
P0511	Idle Air Control Circuit	G*	g	g					M*			E*								
P0512	Starter Request Circuit	G																		
P0513	Incorrect Immobilizer Key																			
P0514	Battery Temperature Sensor Circuit Range/Performance																			
P0515	Battery Temperature Sensor Circuit														D					
P0516	Battery Temperature Sensor Circuit Low																			
P0517	Battery Temperature Sensor Circuit High																			
P0518	Idle Air Control Circuit Intermittent	G																		
P0519	Idle Air Control Circuit System Performance																			
P051A	Crankcase Pressure Sensor Circuit																			
P051B	Crankcase Pressure Sensor Circuit Range/Performance																			
P051C	Crankcase Pressure Sensor Circuit Low																			
P051D	Crankcase Pressure Sensor Circuit High																			
P051E	Crankcase Pressure Sensor Circuit Intermittent																			
P051F	Positive Crankcase Ventilation Filter Restriction																			
P0520	Engine Oil Pressure Sensor/Switch Circuit																		EOP	
P0521	Engine Oil Pressure Sensor/Switch Circuit Range/Performance																		EOP	
P0522	Engine Oil Pressure Sensor/Switch Circuit Low																		EOP	
P0523	Engine Oil Pressure Sensor/Switch Circuit High																		EOP	
P0524	Engine Oil Pressure Too Low																		EOP	
P0525	Cruise Control Servo Control Circuit Range/Performance		g																	
P0526	Fan Speed Sensor Circuit																			
P0527	Fan Speed Sensor Circuit Range/Performance																			
P0528	Fan Speed Sensor Circuit No Signal	G	g			D	d	d												
P0529	Fan Speed Sensor Circuit Intermittent					D	d	d												
P052A	Cold Start Intake (A) Camshaft Position Timing Over-Advanced (Bank 1)	G*																		
P052B	Cold Start Intake (A) Camshaft Position Timing Over-Retarded (Bank 1)	G*																		





OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type				
		Spark Ignition PCM																				
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER												
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P0569	Cruise Control COAST Signal	G																				
P056A	Cruise Control INCREASE DISTANCE Signal																					
P056B	Cruise Control DECREASE DISTANCE Signal																					
P056C																						
P056D																						
P056E																						
P056F																						
P0570	Cruise Control ACCEL Signal	G							d													
P0571	Brake Switch "A" Circuit	G						D*	d	d	M*	J			E					D		
P0572	Brake Switch "A" Circuit Low	G																				
P0573	Brake Switch "A" Circuit High	G*																				
P0574	Cruise Control System - Vehicle Speed Too High																					
P0575	Cruise Control Input Circuit																				D	
P0576	Cruise Control Input Circuit Low																					
P0577	Cruise Control Input Circuit High																					
P0578	Cruise Control Multi-Function Input "A" Circuit Stuck								D	d												
P0579	Cruise Control Multi-Function Input "A" Circuit Range/Performance	G							D	d												
P057A																						
P057B																						
P057C																						
P057D																						
P057E																						
P057F																						
P0580	Cruise Control Multi-Function Input "A" Circuit Low																					
P0581	Cruise Control Multi-Function Input "A" Circuit High	G	g	g																		
P0582	Cruise Control Vacuum Control Circuit /Open																					
P0583	Cruise Control Vacuum Control Circuit Low																					
P0584	Cruise Control Vacuum Control Circuit High																					
P0585	Cruise Control Multi-Function Input "A" / "B" Correlation																					
P0586	Cruise Control Vent Control Circuit / Open																					
P0587	Cruise Control Vent Control Circuit Low																					
P0588	Cruise Control Vent Control Circuit High																					
P0589	Cruise Control Multi-Function Input "B" Circuit																					
P058A																						
P058B																						
P058C																						
P058D																						
P058E																						
P058F																						
P0590	Cruise Control Multi-Function Input "B" Circuit Stuck																					
P0591	Cruise Control Multi-Function Input "B" Circuit Range/Performance																					
P0592	Cruise Control Multi-Function Input "B" Circuit Low																					
P0593	Cruise Control Multi-Function Input "B" Circuit High																					
P0594	Cruise Control Servo Control Circuit / Open	G																				
P0595	Cruise Control Servo Control Circuit Low																					
P0596	Cruise Control Servo Control Circuit High																					
P0597	Thermostat Heater Control Circuit / Open	G*	g	g																		
P0598	Thermostat Heater Control Circuit Low																					
P0599	Thermostat Heater Control Circuit High																					
P059A																						
P059B																						
P059C																						
P059D																						
P059E																						
P059F																						
Computer and Auxiliary Outputs																						
P0600	Serial Communication Link	G*							D	d		M*			N							
P0601	Internal Control Module Memory Check Sum Error																				M*	
P0602	Powertrain Control Module Programming Error	G*	g	g	T*				D	d		M*										
P0603	Internal Control Module Keep Alive Memory (KAM) Error	G*	g		T				D*	d	d	M*	J*		E	e				U	KAM	
P0604	Internal Control Module Random Access Memory (RAM) Error	G*			T*	t			D	d		M*			E						RAM	
P0605	Internal Control Module Read Only Memory (ROM) Error	G*	g		T*				D	d		M*	J		N	E	e			D*	U	ROM

OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type	
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel	Spark Ignition				
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	Continuous	KOEO	Continuous	KOEO					Continuous	KOEO	KOER		Continuous	KOEO	KOER	
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P0606	Control Module Processor	G*																	
P0607	Control Module Performance	G*																	
P0608	Powertrain Control Module Vehicle Speed Output "A"																		
P0609	Powertrain Control Module Vehicle Speed Output B																		
P060A	Internal Control Module Monitoring Processor Performance	G*+																	
P060B	Internal Control Module A/D Processing Performance	G*+																	
P060C	Internal Control Module Main Processor Performance	G*+																	
P060D	Internal Control Module Accelerator Pedal Position Performance	G*																	
P060E	Internal Control Module Throttle Position Performance																		
P060F	Internal Control Module Engine Coolant Temperature Performance	G																	
P0610	Control Module Vehicle Options Error	G		T															
P0611	Fuel Injector Control Module Performance																		
P0612	Fuel Injector Control Module Relay Control Circuit																		
P0613	TCM Processor																		
P0614	ECM / TCM Incompatible																		
P0615	Starter Relay Circuit																		
P0616	Starter Relay Circuit Low																		
P0617	Starter Relay Circuit High																		
P0618	Alternative Fuel Control Module KAM Error																		
P0619	Alternative Fuel Control Module RAM/ROM Error																		
P061A	Internal Control Module Torque Performance																		
P061B	Internal Control Module Torque Calculation Performance	G*+																	
P061C	Internal Control Module Engine RPM Performance	G*+																	
P061D	Internal Control Module Engine Air Mass Performance	G*+																	
P061E	Internal Control Module Brake Signal Performance																		
P061F	Internal Control Module Throttle Actuator Controller Performance	G*																	
P0620	Generator Control Circuit	G																	
P0621	Generator Lamp Terminal Circuit																		
P0622	Generator Field Terminal Circuit	G	g																
P0623	Generator Lamp Control Circuit																		
P0624	Fuel Cap Lamp Control Circuit																		
P0625	Generator Field Terminal Circuit Low	G	g																
P0626	Generator Field Terminal Circuit High	G	g																
P0627	Fuel Pump "A" Control Circuit / Open	G	g	g															
P0628	Fuel Pump "A" Control Circuit Low																		
P0629	Fuel Pump "A" Control Circuit High																		
P062A	Fuel Pump "A" Control Circuit Range/Performance																		
P062B	Internal Control Module Fuel Injector Control Performance	G																	
P062C	Internal Control Module Vehicle Speed Performance	G*																	
P062D	Fuel Injector Driver Circuit Performance (Bank 1)																		
P062E	Fuel Injector Driver Circuit Performance (Bank 2)																		
P062F	Internal Control Module EEPROM Error	G		T*															
P0630	VIN Not Programmed or Incompatible - ECM/PCM																		
P0631	VIN Not Programmed or Incompatible - TCM																		
P0632	Odometer Not Programmed - ECM/PCM																		
P0633	Immobilizer Key Not Programmed - ECM/PCM																		
P0634	PCM / ECM / TCM Internal Temperature "A" Too High																		
P0635	Power Steering Control Circuit																		
P0636	Power Steering Control Circuit Low																		
P0637	Power Steering Control Circuit High																		
P0638	Throttle Actuator Control Range/Performance (Bank 1)																		
P0639	Throttle Actuator Control Range/Performance (Bank 2)																		
P063A	Generator Voltage Sense Circuit																		
P063B	Generator Voltage Sense Circuit Range/Performance																		
P063C	Generator Voltage Sense Circuit Low																		
P063D	Generator Voltage Sense Circuit High																		
P063E	Auto Configuration Throttle Input Not Present																		
P063F	Auto Configuration Engine Coolant Temperature Input Not Present																		
P0640	Intake Air Heater Control Circuit																		
P0641	Sensor Reference Voltage "A" Circuit/Open																		
P0642	Sensor Reference Voltage "A" Circuit Low	G*	g	g															
P0643	Sensor Reference Voltage "A" Circuit High	G*	g	g															

OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type			
		Spark Ignition PCM	KOE		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition	Diesel		Spark Ignition	KOE				
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOE	KOE	Continuous	KOE	KOE	Continuous	KOE	KOE				Continuous	KOE	KOE		Continuous	KOE	KOE	
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P0644	Driver Display Serial Communication Circuit																				
P0645	A/C Clutch Relay Control Circuit	G	g	g				D	d	d				F				D			ACC
P0646	A/C Clutch Relay Control Circuit Low							D	d	d				F				D			ACC
P0647	A/C Clutch Relay Control Circuit High							D	d	d				F				D			ACC
P0648	Immobilizer Lamp Control Circuit																	D			
P0649	Cruise Control Lamp Control Circuit							D	d	d								D			
P064A	Fuel Pump Control Module																				
P064B	PTO Control Module																				
P064C	Glow Plug Control Module																				
P064D	Internal Control Module O2 Sensor Processor Performance (Bank 1)	G*	g	g																	
P064E	Internal Control Module O2 Sensor Processor Performance (Bank 2)	G*	g	g																	
P064F	Unauthorized Software/Calibration Detected																				
P0650	Malfunction Indicator Light Control Circuit													E	e	e		D			MIL
P0651	Sensor Reference Voltage "B" Circuit / Open													E*				D*			
P0652	Sensor Reference Voltage "B" Circuit Low							D*	d	d				E*				D			
P0653	Sensor Reference Voltage "B" Circuit High							D*	d	d				E*				D			
P0654	Engine RPM Output Circuit													E				D			
P0655	Engine Hot Lamp Output Control Circuit																				
P0656	Fuel level Output Circuit													E	e	e					
P0657	Actuator Supply Voltage "A" Circuit / Open							T*	t		D*	d	d							J	
P0658	Actuator Supply Voltage "A" Circuit Low							T*	t												
P0659	Actuator Supply Voltage "A" Circuit High							T*	t												
P065A	Generator System Performance																				
P065B	Generator Control Circuit Range/Performance	G									D										
P065C	Generator Mechanical Performance													E							
P065D	Reductant System Malfunction Lamp Control Circuit																				
P065E	Intake Manifold Tuning Valve Performance (Bank 1)																				
P065F	Intake Manifold Tuning Valve Performance (Bank 2)																				
P0660	Intake Manifold Tuning Valve Control Circuit / Open (Bank 1)	G	g	g								M*									
P0661	Intake Manifold Tuning Valve Control Circuit Low (Bank 1)											M*									
P0662	Intake Manifold Tuning Valve Control Circuit High (Bank 1)											M*									
P0663	Intake Manifold Tuning Valve Control Circuit / Open (Bank 2)	G	g	g																	
P0664	Intake Manifold Tuning Valve Control Circuit Low (Bank 2)																				
P0665	Intake Manifold Tuning Valve Control Circuit High (Bank 2)																				
P0666	PCM / ECM / TCM Internal Temperature Sensor "A" Circuit							T												J*	
P0667	PCM / ECM / TCM Internal Temperature Sensor "A" Range/Performance							T*		D											
P0668	PCM / ECM / TCM Internal Temperature Sensor "A" Circuit Low									D		M									
P0669	PCM / ECM / TCM Internal Temperature Sensor "A" Circuit High									D		M									
P066A	Cylinder 1 Glow Plug Circuit Low																				
P066B	Cylinder 1 Glow Plug Circuit High																				
P066C	Cylinder 2 Glow Plug Circuit Low																				
P066D	Cylinder 2 Glow Plug Circuit High																				
P066E	Cylinder 3 Glow Plug Circuit Low																				
P066F	Cylinder 3 Glow Plug Circuit High																				
P0670	Glow Plug Control Module Control Circuit / Open										D*	d	d								
P0671	Cylinder 1 Glow Plug Circuit / Open										D*	d	d								
P0672	Cylinder 2 Glow Plug Circuit / Open										D*	d	d								
P0673	Cylinder 3 Glow Plug Circuit / Open										D*	d	d								
P0674	Cylinder 4 Glow Plug Circuit / Open										D*	d	d								
P0675	Cylinder 5 Glow Plug Circuit / Open										D*	d	d								
P0676	Cylinder 6 Glow Plug Circuit / Open										D*	d	d								
P0677	Cylinder 7 Glow Plug Circuit / Open										D*	d	d								
P0678	Cylinder 8 Glow Plug Circuit / Open										D*	d	d								
P0679	Cylinder 9 Glow Plug Circuit / Open																				
P067A	Cylinder 4 Glow Plug Circuit Low																				
P067B	Cylinder 4 Glow Plug Circuit High																				
P067C	Cylinder 5 Glow Plug Circuit Low																				
P067D	Cylinder 5 Glow Plug Circuit High																				
P067E	Cylinder 6 Glow Plug Circuit Low																				
P067F	Cylinder 6 Glow Plug Circuit High																				
P0680	Cylinder 10 Glow Plug Circuit / Open																				
P0681	Cylinder 11 Glow Plug Circuit / Open																				

OBD-II Diagnostic Trouble Code Definitions		North America										Europe			Australia			SAE J1930 Component/ System and I/O Type	
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel	Spark Ignition				
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	Continuous	KOEO	Continuous	KOEO					Continuous	KOEO	KOER		Continuous	KOEO	KOER	
Capital and small usage letters are used for visual impact only! Mazda, Nissan and Land Rover legacy DTCs are for reference. Ford P/T was not responsible for assigning these DTCs. Shading indicates change from previous version.																			A = Analog D = Digital F = Frequency I = Input O = Output
P0682	Cylinder 12 Glow Plug Circuit / Open																		
P0683	Glow Plug Control Module to PCM Communication Circuit						D*	d	d										
P0684	Glow Plug Control Module to PCM Communication Circuit Range/Performance						D*	d	d										
P0685	ECM/PCM Power Relay Control Circuit/Open	G					D	d	d			F	e	e	D				
P0686	ECM/PCM Power Relay Control Circuit Low						D	d	d			F							
P0687	ECM/PCM Power Relay Control Circuit High						D	d				F							
P0688	ECM/PCM Power Relay Sense Circuit												e	e					
P0689	ECM/PCM Power Relay Sense Circuit Low	G																	
P068A	ECM/PCM Power Relay De-Energized - Too Early																		
P068B	ECM/PCM Power Relay De-Energized - Too Late																		
P068C	Cylinder 7 Glow Plug Circuit Low																		
P068D	Cylinder 7 Glow Plug Circuit High																		
P068E	Cylinder 8 Glow Plug Circuit Low																		
P068F	Cylinder 8 Glow Plug Circuit High																		
P0690	ECM/PCM Power Relay Sense Circuit High	G																	
P0691	Fan 1 Control Circuit Low						D	d	d			E			D				FC-1
P0692	Fan 1 Control Circuit High						D	d	d			E			D				FC-1
P0693	Fan 2 Control Circuit Low											E							FC-2
P0694	Fan 2 Control Circuit High											E							FC-2
P0695	Fan 3 Control Circuit Low																		FC-3
P0696	Fan 3 Control Circuit High																		FC-3
P0697	Sensor Reference Voltage "C" Circuit / Open																		
P0698	Sensor Reference Voltage "C" Circuit Low														D				
P0699	Sensor Reference Voltage "C" Circuit High														D				
P069A	Cylinder 9 Glow Plug Circuit Low																		
P069B	Cylinder 9 Glow Plug Circuit High																		
P069C	Cylinder 10 Glow Plug Circuit Low																		
P069D	Cylinder 10 Glow Plug Circuit High																		
P069E	Fuel Pump Control Module Requested MIL Illumination																		
P069F	Throttle Actuator Control Lamp Control Circuit																		
P06A0	Variable A/C Compressor Control Circuit																		
P06A1	Variable A/C Compressor Control Circuit Low																		
P06A2	Variable A/C Compressor Control Circuit High																		
P06A3	Sensor Reference Voltage "D" Circuit/Open																		
P06A4	Sensor Reference Voltage "D" Circuit Low																		
P06A5	Sensor Reference Voltage "D" Circuit High																		
P06A6	Sensor Reference Voltage "A" Circuit Range/Performance																		
P06A7	Sensor Reference Voltage "B" Circuit Range/Performance																		
P06A8	Sensor Reference Voltage "C" Circuit Range/Performance																		
P06A9	Sensor Reference Voltage "D" Circuit Range/Performance																		
P06AA	PCM / ECM / TCM Internal Temperature "B" Too High																		
P06AB	PCM / ECM / TCM Internal Temperature Sensor "B" Circuit																		
P06AC	PCM / ECM / TCM Internal Temperature Sensor "B" Range/Performance																		
P06AD	PCM / ECM / TCM Internal Temperature Sensor "B" Circuit Low																		
P06AE	PCM / ECM / TCM Internal Temperature Sensor "B" Circuit High																		
P06AF	Torque Management System - Forced Engine Shutdown																		
P06B0	Sensor Power Supply "A" Circuit/Open																		
P06B1	Sensor Power Supply "A" Circuit Low																		
P06B2	Sensor Power Supply "A" Circuit High																		
P06B3	Sensor Power Supply "B" Circuit/Open																		
P06B4	Sensor Power Supply "B" Circuit Low																		
P06B5	Sensor Power Supply "B" Circuit High																		
P06B6	Internal Control Module Knock Sensor Processor 1 Performance																		
P06B7	Internal Control Module Knock Sensor Processor 2 Performance																		
P06B8	Internal Control Module Non-Volatile Random Access Memory (NVRAM) Error	G*																	
P06B9	Cylinder 1 Glow Plug Circuit Range/Performance																		
P06BA	Cylinder 2 Glow Plug Circuit Range/Performance																		
P06BB	Cylinder 3 Glow Plug Circuit Range/Performance																		
P06BC	Cylinder 4 Glow Plug Circuit Range/Performance																		
P06BD	Cylinder 5 Glow Plug Circuit Range/Performance																		
P06BE	Cylinder 6 Glow Plug Circuit Range/Performance																		
P06BF	Cylinder 7 Glow Plug Circuit Range/Performance																		

OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type		
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel	Spark Ignition					
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	Continuous	KOEO	Continuous	KOEO					Continuous	KOEO	KOER		Continuous	KOEO	KOER		
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P06C0	Cylinder 8 Glow Plug Circuit Range/Performance																			
P06C1	Cylinder 9 Glow Plug Circuit Range/Performance																			
P06C2	Cylinder 10 Glow Plug Circuit Range/Performance																			
P06C3	Cylinder 11 Glow Plug Circuit Range/Performance																			
P06C4	Cylinder 12 Glow Plug Circuit Range/Performance																			
P06C5	Cylinder 1 Glow Plug Incorrect																			
P06C6	Cylinder 2 Glow Plug Incorrect																			
P06C7	Cylinder 3 Glow Plug Incorrect																			
P06C8	Cylinder 4 Glow Plug Incorrect																			
P06C9	Cylinder 5 Glow Plug Incorrect																			
P06CA	Cylinder 6 Glow Plug Incorrect																			
P06CB	Cylinder 7 Glow Plug Incorrect																			
P06CC	Cylinder 8 Glow Plug Incorrect																			
P06CD	Cylinder 9 Glow Plug Incorrect																			
P06CE	Cylinder 10 Glow Plug Incorrect																			
P06CF	Cylinder 11 Glow Plug Incorrect																			
P06D0	Cylinder 12 Glow Plug Incorrect																			
P06D1	Internal Control Module Ignition Coil Control Module Performance																			
Transmission																				
P0700	Transmission Control System (MIL Request)	G				D	d	d				E				D				
P0701	Transmission Control System Range/Performance			T*					J*							D				
P0702	Transmission Control System Electrical			T*	t				J*			E								
P0703	Brake Switch "B" Circuit		g	g		D	d	M*	J*			E				D				
P0704	Clutch Switch Input Circuit	G				D	d	M*				E				D				
P0705	Transmission Range Sensor "A" Circuit (PRNDL Input)	G*	g	T*		D*	d	M*		N									TR	
P0706	Transmission Range Sensor "A" Circuit Range/Performance	G*		T*		D*	d	M*	J*							U			TR	
P0707	Transmission Range Sensor "A" Circuit Low	G*	g	T*		D*	d	M*								U			TR	
P0708	Transmission Range Sensor "A" Circuit High	G*	g	T*		D*	d	M*								U			TR	
P0709	Transmission Range Sensor "A" Circuit Intermittent	G*																	TR	
P070A	Transmission Fluid Level Sensor Circuit																			
P070B	Transmission Fluid Level Sensor Circuit Range/Performance																			
P070C	Transmission Fluid Level Sensor Circuit Low																			
P070D	Transmission Fluid Level Sensor Circuit High																			
P070E	Transmission Fluid Level Sensor Circuit Intermittent/Erratic																			
P070F	Transmission Fluid Level Too Low																			
P0710	Transmission Fluid Temperature Sensor "A" Circuit			T*		D^		M*	J*	N						U			TFT	
P0711	Transmission Fluid Temperature Sensor "A" Circuit Range/Performance	G^		T*		D*		M*	J										TFT	
P0712	Transmission Fluid Temperature Sensor "A" Circuit Low	G^	g	g	T*	D*	d	d	M*							U			TFT	
P0713	Transmission Fluid Temperature Sensor "A" Circuit High	G^	g	g	T*	D*	d	d	M*							U			TFT	
P0714	Transmission Fluid Temperature Sensor "A" Circuit Intermittent				T*														TFT	
P0715	Turbine/Input Shaft Speed Sensor "A" Circuit	G*	g	T*		D*		M*	J*			E							TSS	
P0716	Turbine/Input Shaft Speed Sensor "A" Circuit Range/Performance				T*							E	e						TSS	
P0717	Turbine/Input Shaft Speed Sensor "A" Circuit No Signal	G^	g	T*		D^						E							TSS	
P0718	Turbine/Input Shaft Speed Sensor "A" Circuit Intermittent	G^		g		D^													TSS	
P0719	Brake Switch "B" Circuit Low																			
P071A	Transmission Mode Switch "A" Circuit																			
P071B	Transmission Mode Switch "A" Circuit Low																			
P071C	Transmission Mode Switch "A" Circuit High																			
P071D	Transmission Mode Switch "B" Circuit																			
P071E	Transmission Mode Switch "B" Circuit Low																			
P071F	Transmission Mode Switch "B" Circuit High																			
P0720	Output Shaft Speed Sensor Circuit	G*	g	T*		D*	d	M*	J*	N	E*								OSS	
P0721	Output Shaft Speed Sensor Circuit Range/Performance	G^		T*		D^	d					E							OSS	
P0722	Output Shaft Speed Sensor Circuit No Signal	G^		T*		D^	d	M*				E							OSS	
P0723	Output Shaft Speed Sensor Circuit Intermittent	G		T*															OSS	
P0724	Brake Switch "B" Circuit High																			
P0725	Engine Speed Input Circuit								M*		N	E								RPM
P0726	Engine Speed Input Circuit Range/Performance				T							E	e							RPM
P0727	Engine Speed Input Circuit No Signal				T															RPM



OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type	
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel					
		Continuous	KOEO	Continuous	KOEO	Continuous	KOEO									Continuous	KOEO	Continuous	KOEO
	* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used																		
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P0766	Shift Solenoid "D" Performance/Stuck Off	G*		T*		D*		M*											SS-D [DO]
P0767	Shift Solenoid "D" Stuck On					D*		M*											SS-D [DO]
P0768	Shift Solenoid "D" Electrical	G^	g			D^	d	M*							U				SS-D [DO]
P0769	Shift Solenoid "D" Intermittent																		SS-D [DO]
P076A	Shift Solenoid "H"																		
P076B	Shift Solenoid "H" Performance/Stuck Off																		
P076C	Shift Solenoid "H" Stuck On																		
P076D	Shift Solenoid "H" Electrical																		
P076E	Shift Solenoid "H" Intermittent																		
P076F	Gear 7 Ratio Incorrect																		
P0770	Shift Solenoid "E"	G*	g	T*		D*	d												SS-E [DO]
P0771	Shift Solenoid "E" Performance/Stuck Off	G*		T*		D*		M*											SS-E [DO]
P0772	Shift Solenoid "E" Stuck On			T		D*		M*											SS-E [DO]
P0773	Shift Solenoid "E" Electrical	G^	g			D^	d	M*											SS-E [DO]
P0774	Shift Solenoid "E" Intermittent			T															SS-E [DO]
P0775	Pressure Control Solenoid B	G*																	PC-B
P0776	Pressure Control Solenoid "B" Performance/Stuck Off			T*															PC-B
P0777	Pressure Control Solenoid "B" Stuck On			T*															PC-B
P0778	Pressure Control Solenoid "B" Electrical	G^							J*						U				PC-B
P0779	Pressure Control Solenoid "B" Intermittent	G^	g																PC-B
P077A	Output Speed Sensor Circuit - Loss of Direction Signal																		
P077B	Output Speed Sensor Circuit - Direction Error																		
P077C	Output Speed Sensor Circuit Low																		
P077D	Output Speed Sensor Circuit High																		
P077E																			
P077F																			
P0780	Shift Malfunction			T*															
P0781	1-2 Shift	G^		T*		D^			J										
P0782	2-3 Shift	G^		T*		D^			J										
P0783	3-4 Shift	G^		T*		D^			J										
P0784	4-5 Shift			T*					J										
P0785	Shift Timing Solenoid "A"																		
P0786	Shift Timing Solenoid "A" Range/Performance																		
P0787	Shift Timing Solenoid "A" Low																		
P0788	Shift Timing Solenoid "A" High																		
P0789	Shift Timing Solenoid "A" Intermittent																		
P078A	Shift Timing Solenoid "B"																		
P078B	Shift Timing Solenoid "B" Range/Performance																		
P078C	Shift Timing Solenoid "B" Low																		
P078D	Shift Timing Solenoid "B" High																		
P078E	Shift Timing Solenoid "B" Intermittent																		
P078F																			
P0790	Normal/Performance Switch Circuit	G		T*					J										
P0791	Intermediate Shaft Speed Sensor "A" Circuit	G^	g	T*		D*			J*										ISS
P0792	Intermediate Shaft Speed Sensor "A" Circuit Range/Performance			T*															ISS
P0793	Intermediate Shaft Speed Sensor "A" Circuit No Signal					D^													ISS
P0794	Intermediate Shaft Speed Sensor "A" Circuit Intermittent	G^		T*		D^													ISS
P0795	Pressure Control Solenoid "C"	G*							J*										PC-C
P0796	Pressure Control Solenoid "C" Performance/Stuck Off	G*	g	T*															PC-C
P0797	Pressure Control Solenoid "C" Stuck On	G*	g	T*															PC-C
P0798	Pressure Control Solenoid "C" Electrical	G^																	PC-C
P0799	Pressure Control Solenoid "C" Intermittent	G^	g																PC-C
P079A	Transmission Friction Element "A" Slip Detected																		
P079B	Transmission Friction Element "B" Slip Detected																		
P079C	Transmission Friction Element "C" Slip Detected																		
P079D	Transmission Friction Element "D" Slip Detected																		
P079E	Transmission Friction Element "E" Slip Detected																		
P079F	Transmission Friction Element "F" Slip Detected																		
P07A0	Transmission Friction Element "G" Slip Detected																		
P07A1	Transmission Friction Element "H" Slip Detected																		
P07A2	Transmission Friction Element "A" Performance/Stuck Off																		
P07A3	Transmission Friction Element "A" Stuck On																		





OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type	
		Spark Ignition PCM																	
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER									
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P0811	Excessive Clutch "A" Slippage																		
P0812	Reverse Input Circuit	G																	
P0813	Reverse Output Circuit																		
P0814	Transmission Range Display Circuit	G																	
P0815	Upshift Switch Circuit	G	g	g															
P0816	Downshift Switch Circuit	G	g	g	T														
P0817	Starter Disable Circuit / Open				T														
P0818	Driveline Disconnect Switch Input Circuit		g		T														
P0819	Up and Down Shift Switch to Transmission Range Correlation																		
P081A	Starter Disable Circuit Low				T														
P081B	Starter Disable Circuit High				T														
P081C	Park Input Circuit				T														
P081D	Neutral Input Circuit																		
P081E	Excessive Clutch "B" Slippage				T*														
P081F																			
P0820	Gear Lever X-Y Position Sensor Circuit																		
P0821	Gear Lever X Position Sensor Circuit																		
P0822	Gear Lever Y Position Sensor Circuit																		
P0823	Gear Lever X Position Sensor Circuit Intermittent																		
P0824	Gear Lever Y Position Sensor Circuit Intermittent																		
P0825	Gear Lever Push/Pull Switch Circuit (Shift Anticipate)																		
P0826	Up and Down Switch Circuit				T														
P0827	Up and Down Switch Circuit Low																		
P0828	Up and Down Switch Circuit High																		
P0829	5-6 Shift				T*														
P082A	Gear Lever X Position Sensor Circuit Range/Performance																		
P082B	Gear Lever X Position Sensor Circuit Low																		
P082C	Gear Lever X Position Sensor Circuit High																		
P082D	Gear Lever Y Position Sensor Circuit Range/Performance																		
P082E	Gear Lever Y Position Sensor Circuit Low																		
P082F	Gear Lever Y Position Sensor Circuit High																		
P0830	Clutch Pedal Switch "A" Circuit	G						D	d										
P0831	Clutch Pedal Switch "A" Circuit Low																		
P0832	Clutch Pedal Switch "A" Circuit High																		
P0833	Clutch Pedal Switch "B" Circuit	G						D	d										
P0834	Clutch Pedal Switch "B" Circuit Low																		
P0835	Clutch Pedal Switch "B" Circuit High																		
P0836	Four Wheel Drive (4WD) Switch Circuit																		
P0837	Four Wheel Drive (4WD) Switch Circuit Range/Performance																		
P0838	Four Wheel Drive (4WD) Switch Circuit Low																		
P0839	Four Wheel Drive (4WD) Switch Circuit High																		
P083A	Transmission Fluid Pressure Sensor/Switch "G" Circuit																		
P083B	Transmission Fluid Pressure Sensor/Switch "G" Circuit Range/Performance																		
P083C	Transmission Fluid Pressure Sensor/Switch "G" Circuit Low																		
P083D	Transmission Fluid Pressure Sensor/Switch "G" Circuit High																		
P083E	Transmission Fluid Pressure Sensor/Switch "G" Circuit Intermittent																		
P083F	Clutch Pedal Switch "A" / "B" Correlation																		
P0840	Transmission Fluid Pressure Sensor/Switch "A" Circuit	G	g	g	T*			D^											
P0841	Transmission Fluid Pressure Sensor/Switch "A" Circuit Range/Performance				T*			D*		M									
P0842	Transmission Fluid Pressure Sensor/Switch "A" Circuit Low				T*														
P0843	Transmission Fluid Pressure Sensor/Switch "A" Circuit High				T*														
P0844	Transmission Fluid Pressure Sensor/Switch "A" Circuit Intermittent	G																	
P0845	Transmission Fluid Pressure Sensor/Switch "B" Circuit				T*			D^											
P0846	Transmission Fluid Pressure Sensor/Switch "B" Circuit Range/Performance				T*			D*		M*									
P0847	Transmission Fluid Pressure Sensor/Switch "B" Circuit Low				T*														
P0848	Transmission Fluid Pressure Sensor/Switch "B" Circuit High				T*														
P0849	Transmission Fluid Pressure Sensor/Switch "B" Circuit Intermittent				T*														
P084A	Transmission Fluid Pressure Sensor/Switch "H" Circuit																		
P084B	Transmission Fluid Pressure Sensor/Switch "H" Circuit Range/Performance																		
P084C	Transmission Fluid Pressure Sensor/Switch "H" Circuit Low																		
P084D	Transmission Fluid Pressure Sensor/Switch "H" Circuit High																		
P084E	Transmission Fluid Pressure Sensor/Switch "H" Circuit Intermittent																		

OBD-II Diagnostic Trouble Code Definitions			North America										Europe			Australia			SAE J1930 Component/ System and I/O Type				
			Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel	Spark Ignition							
			Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER					Continuous	KOEO	KOER	Continuous	KOEO	KOER		
		* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used																					
		Capital and small usage letters are used for visual impact only! Mazda, Nissan and Land Rover legacy DTCs are for reference. Ford P/T was not responsible for assigning these DTCs. Shading indicates change from previous version.																					
P084F	Park / Neutral Switch Output Circuit																						
P0850	Park / Neutral Switch Input Circuit																						
P0851	Park / Neutral Switch Input Circuit Low																						
P0852	Park / Neutral Switch Input Circuit High																						
P0853	Drive Switch Input Circuit																						
P0854	Drive Switch Input Circuit Low																						
P0855	Drive Switch Input Circuit High																						
P0856	Traction Control Input Signal																						
P0857	Traction Control Input Signal Range/Performance																						
P0858	Traction Control Input Signal Low																						
P0859	Traction Control Input Signal High																						
P085A	Gear Shift Control Module "B" Communication Circuit																						
P085B	Gear Shift Control Module "B" Communication Circuit Low																						
P085C	Gear Shift Control Module "B" Communication Circuit High																						
P085D	Gear Shift Control Module "A" Performance																						
P085E	Gear Shift Control Module "B" Performance																						
P085F																							
P0860	Gear Shift Control Module "A" Communication Circuit																						
P0861	Gear Shift Control Module "A" Communication Circuit Low																						
P0862	Gear Shift Control Module "A" Communication Circuit High																						
P0863	TCM Communication Circuit																						
P0864	TCM Communication Circuit Range/Performance																						
P0865	TCM Communication Circuit Low																						
P0866	TCM Communication Circuit High																						
P0867	Transmission Fluid Pressure																						
P0868	Transmission Fluid Pressure Low																						
P0869	Transmission Fluid Pressure High																						
P086A																							
P086B																							
P086C																							
P086D																							
P086E																							
P086F																							
P0870	Transmission Fluid Pressure Sensor/Switch "C" Circuit																						
P0871	Transmission Fluid Pressure Sensor/Switch "C" Circuit Range/Performance																						
P0872	Transmission Fluid Pressure Sensor/Switch "C" Circuit Low																						
P0873	Transmission Fluid Pressure Sensor/Switch "C" Circuit High																						
P0874	Transmission Fluid Pressure Sensor/Switch "C" Circuit Intermittent																						
P0875	Transmission Fluid Pressure Sensor/Switch "D" Circuit																						
P0876	Transmission Fluid Pressure Sensor/Switch "D" Circuit Range/Performance																						
P0877	Transmission Fluid Pressure Sensor/Switch "D" Circuit Low																						
P0878	Transmission Fluid Pressure Sensor/Switch "D" Circuit High																						
P0879	Transmission Fluid Pressure Sensor/Switch "D" Circuit Intermittent																						
P087A																							
P087B																							
P087C																							
P087D																							
P087E																							
P087F																							
P0880	TCM Power Input Signal																						
P0881	TCM Power Input Signal Range/Performance																						
P0882	TCM Power Input Signal Low																						
P0883	TCM Power Input Signal High																						
P0884	TCM Power Input Signal Intermittent																						
P0885	TCM Power Relay Control Circuit /Open																						
P0886	TCM Power Relay Control Circuit Low																						
P0887	TCM Power Relay Control Circuit High																						
P0888	TCM Power Relay Sense Circuit																						
P0889	TCM Power Relay Sense Circuit Range/Performance																						
P088A	Transmission Fluid Filter Deteriorated																						
P088B	Transmission Fluid Filter Very Deteriorated																						
P088C																							

OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel	Spark Ignition			
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	Continuous	KOEO	Continuous	KOEO					Continuous	KOEO	KOER	Continuous	KOEO	KOER	
Capital and small usage letters are used for visual impact only! Mazda, Nissan and Land Rover legacy DTCs are for reference. Ford P/T was not responsible for assigning these DTCs. Shading indicates change from previous version.																		A = Analog D = Digital F = Frequency I = Input O = Output
P088D																		
P088E																		
P088F																		
P0890	TCM Power Relay Sense Circuit Low																	
P0891	TCM Power Relay Sense Circuit High																	
P0892	TCM Power Relay Sense Circuit Intermittent																	
P0893	Multiple Gears Engaged																	
P0894	Transmission Component Slipping								M									
P0895	Shift Time Too Short																	
P0896	Shift Time Too Long																	
P0897	Transmission Fluid Deteriorated				T													
P0898	Transmission Control System MIL Request Circuit Low																	
P0899	Transmission Control System MIL Request Circuit High																	
P089A																		
P089B																		
P089C																		
P089D																		
P089E																		
P089F																		
Transmission																		
P0900	Clutch Actuator Circuit / Open				T*							E	e					
P0901	Clutch Actuator Circuit Range/Performance																	
P0902	Clutch Actuator Circuit Low				T*							E	e					
P0903	Clutch Actuator Circuit High				T*							E	e					
P0904	Gate Select Position Circuit [senses left / right position]											E	e					
P0905	Gate Select Position Circuit Range/Performance											E	e					
P0906	Gate Select Position Circuit Low																	
P0907	Gate Select Position Circuit High																	
P0908	Gate Select Position Circuit Intermittent											E	e					
P0909	Gate Select Control Error											E						
P0910	Gate Select Actuator Circuit / Open [left / right motion]											E	e					
P0911	Gate Select Actuator Circuit Range/Performance																	
P0912	Gate Select Actuator Circuit Low											E	e					
P0913	Gate Select Actuator Circuit High											E	e					
P0914	Gear Shift Position Circuit [senses forward / rearward position, odd / even gears]											E	e					
P0915	Gear Shift Position Circuit Range/Performance											E	e					
P0916	Gear Shift Position Circuit Low																	
P0917	Gear Shift Position Circuit High																	
P0918	Gear Shift Position Circuit Intermittent											E	e					
P0919	Gear Shift Position Control Error											E						
P0920	Gear Shift Forward Actuator Circuit / Open [forward motion, odd gears, 1,3,5]											E	e					
P0921	Gear Shift Forward Actuator Circuit Range/Performance																	
P0922	Gear Shift Forward Actuator Circuit Low											E	e					
P0923	Gear Shift Forward Actuator Circuit High											E	e					
P0924	Gear Shift Reverse Actuator Circuit / Open [rearward motion, even gears, 2,4,6]											E	e					
P0925	Gear Shift Reverse Actuator Circuit Range/Performance																	
P0926	Gear Shift Reverse Actuator Circuit Low											E	e					
P0927	Gear Shift Reverse Actuator Circuit High											E	e					
P0928	Gear Shift Lock Solenoid/Actuator Circuit "A" / Open											E	e					
P0929	Gear Shift Lock Solenoid/Actuator Circuit "A" Range/Performance								J									
P092A	Gear Shift Lock Solenoid/Actuator Circuit "B" / Open																	
P092B	Gear Shift Lock Solenoid/Actuator Circuit "B" Range/Performance																	
P092C	Gear Shift Lock Solenoid/Actuator Circuit "B" Low				T													
P092D	Gear Shift Lock Solenoid/Actuator Circuit "B" High				T													
P092E																		
P092F																		
P0930	Gear Shift Lock Solenoid/Actuator Circuit "A" Low				T							E	e					
P0931	Gear Shift Lock Solenoid/Actuator Circuit "A" High				T							E	e					
P0932	Hydraulic Pressure Sensor Circuit	G	g															
P0933	Hydraulic Pressure Sensor Range/Performance											E	e					
P0934	Hydraulic Pressure Sensor Circuit Low																	
P0935	Hydraulic Pressure Sensor Circuit High																	

OBD-II Diagnostic Trouble Code Definitions		North America										Europe			Australia			SAE J1930 Component/ System and I/O Type						
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel	Spark Ignition									
	* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used	Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER					Continuous	KOEO	KOER	Continuous	KOEO	KOER				A = Analog D = Digital F = Frequency I = Input O = Output
P0936	Hydraulic Pressure Sensor Circuit Intermittent																							
P0937	Hydraulic Oil Temperature Sensor Circuit	G	g																					
P0938	Hydraulic Oil Temperature Sensor Range/Performance														E	e								
P0939	Hydraulic Oil Temperature Sensor Circuit Low	G	g												E	e								
P0940	Hydraulic Oil Temperature Sensor Circuit High	G	g												E	e								
P0941	Hydraulic Oil Temperature Sensor Circuit Intermittent																							
P0942	Hydraulic Pressure Unit				T*																			
P0943	Hydraulic Pressure Unit Cycling Period Too Short														E	e								
P0944	Hydraulic Pressure Unit Loss of Pressure														E	e								
P0945	Hydraulic Pump Relay Circuit / Open														E	e								
P0946	Hydraulic Pump Relay Circuit Range/Performance														E	e								
P0947	Hydraulic Pump Relay Circuit Low														E	e								
P0948	Hydraulic Pump Relay Circuit High														E	e								
P0949	Auto Shift Manual Adaptive Learning Not Done														E	e								
P0950	Auto Shift Manual Control Circuit [Up / Down / Auto / etc]														E	e								
P0951	Auto Shift Manual Control Circuit Range/Performance														E	e								
P0952	Auto Shift Manual Control Circuit Low														E	e								
P0953	Auto Shift Manual Control Circuit High														E	e								
P0954	Auto Shift Manual Control Circuit Intermittent																							
P0955	Auto Shift Manual Mode Circuit [Perf / Winter / Sport / etc]																							
P0956	Auto Shift Manual Mode Circuit Range/Performance														E	e								
P0957	Auto Shift Manual Mode Circuit Low																							
P0958	Auto Shift Manual Mode Circuit High																							
P0959	Auto Shift Manual Mode Circuit Intermittent																							
P0960	Pressure Control Solenoid "A" Control Circuit / Open	G^	g	T*		D*	d																	
P0961	Pressure Control Solenoid "A" Control Circuit Range/Performance	G	g	T*		D*	d																	
P0962	Pressure Control Solenoid "A" Control Circuit Low	G*	g	T*	t	D*	d																	
P0963	Pressure Control Solenoid "A" Control Circuit High	G*	g	T*	t	D*	d																	
P0964	Pressure Control Solenoid "B" Control Circuit / Open	G^	g	T*																				
P0965	Pressure Control Solenoid "B" Control Circuit Range/Performance			T*																				
P0966	Pressure Control Solenoid "B" Control Circuit Low	G*	g	T*																				
P0967	Pressure Control Solenoid "B" Control Circuit High	G^	g	T*																				
P0968	Pressure Control Solenoid "C" Control Circuit / Open	G^	g	T*																				
P0969	Pressure Control Solenoid "C" Control Circuit Range/Performance			T*																				
P0970	Pressure Control Solenoid "C" Control Circuit Low	G*	g	T*																				
P0971	Pressure Control Solenoid "C" Control Circuit High	G^	g	T*																				
P0972	Shift Solenoid "A" Control Circuit Range/Performance			T*		D^																		
P0973	Shift Solenoid "A" Control Circuit Low			T*	t	D*	d																	
P0974	Shift Solenoid "A" Control Circuit High			T*	t	D*	d																	
P0975	Shift Solenoid "B" Control Circuit Range/Performance			T*		D^																		
P0976	Shift Solenoid "B" Control Circuit Low			T*	t	D*	d																	
P0977	Shift Solenoid "B" Control Circuit High			T*	t	D*	d																	
P0978	Shift Solenoid "C" Control Circuit Range/Performance			T*		D^																		
P0979	Shift Solenoid "C" Control Circuit Low			T*	t	D*	d																	
P0980	Shift Solenoid "C" Control Circuit High			T*	t	D*	d																	
P0981	Shift Solenoid "D" Control Circuit Range/Performance			T*		D^																		
P0982	Shift Solenoid "D" Control Circuit Low			T*	t	D*	d																	
P0983	Shift Solenoid "D" Control Circuit High			T*	t	D*	d																	
P0984	Shift Solenoid "E" Control Circuit Range/Performance			T*		D^																		
P0985	Shift Solenoid "E" Control Circuit Low			T*	t	D*	d																	
P0986	Shift Solenoid "E" Control Circuit High			T*	t	D*	d																	
P0987	Transmission Fluid Pressure Sensor/Switch "E" Circuit						D^																	
P0988	Transmission Fluid Pressure Sensor/Switch "E" Circuit Range/Performance						D*																	
P0989	Transmission Fluid Pressure Sensor/Switch "E" Circuit Low																							
P0990	Transmission Fluid Pressure Sensor/Switch "E" Circuit High																							
P0991	Transmission Fluid Pressure Sensor/Switch "E" Circuit Intermittent																							
P0992	Transmission Fluid Pressure Sensor/Switch "F" Circuit																							
P0993	Transmission Fluid Pressure Sensor/Switch "F" Circuit Range/Performance																							
P0994	Transmission Fluid Pressure Sensor/Switch "F" Circuit Low																							
P0995	Transmission Fluid Pressure Sensor/Switch "F" Circuit High																							
P0996	Transmission Fluid Pressure Sensor/Switch "F" Circuit Intermittent																							
P0997	Shift Solenoid "F" Control Circuit Range/Performance				T*																			

OBD-II Diagnostic Trouble Code Definitions		North America										Europe			Australia		SAE J1930 Component/ System and I/O Type
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel	Spark Ignition		
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER							
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P0998	Shift Solenoid "F" Control Circuit Low																
P0999	Shift Solenoid "F" Control Circuit High																
P099A	Shift Solenoid "G" Control Circuit Range/Performance																
P099B	Shift Solenoid "G" Control Circuit Low																
P099C	Shift Solenoid "G" Control Circuit High																
P099D	Shift Solenoid "H" Control Circuit Range/Performance																
P099E	Shift Solenoid "H" Control Circuit Low																
P099F	Shift Solenoid "H" Control Circuit High																
Hybrid Propulsion																	
P0A00	Motor Electronics Coolant Temperature Sensor Circuit	G															
P0A01	Motor Electronics Coolant Temperature Sensor Circuit Range/Performance				T												
P0A02	Motor Electronics Coolant Temperature Sensor Circuit Low	G	g	g													
P0A03	Motor Electronics Coolant Temperature Sensor Circuit High	G	g	g													
P0A04	Motor Electronics Coolant Temperature Sensor Circuit Intermittent																
P0A05	Motor Electronics Coolant Pump "A" Control Circuit / Open	G	g	g													
P0A06	Motor Electronics Coolant Pump "A" Control Circuit Low																
P0A07	Motor Electronics Coolant Pump "A" Control Circuit High																
P0A08	DC/DC Converter Status Circuit / Open	G	g	g													
P0A09	DC/DC Converter Status Circuit Low	G	g	g			D*	d									
P0A0A	High Voltage System Interlock Circuit				T												
P0A0B	High Voltage System Interlock Circuit Performance																
P0A0C	High Voltage System Interlock Circuit Low																
P0A0D	High Voltage System Interlock Circuit High																
P0A0E	High Voltage System Interlock Circuit Intermittent																
P0A0F	Engine Failed to Start																
P0A10	DC/DC Converter Status Circuit High	G	g	g			D*	d									
P0A11	DC/DC Converter Enable Circuit / Open	G	g	g													
P0A12	DC/DC Converter Enable Circuit Low	G	g	g													
P0A13	DC/DC Converter Enable Circuit High	G	g	g													
P0A14	Engine Mount Control "A" Circuit / Open	G	g	g													
P0A15	Engine Mount Control "A" Circuit Low																
P0A16	Engine Mount Control "A" Circuit High																
P0A17	Motor Torque Sensor Circuit																
P0A18	Motor Torque Sensor Circuit Range/Performance	G	g	g													
P0A19	Motor Torque Sensor Circuit Low																
P0A1A	Generator Control Module				T												
P0A1B	Drive Motor "A" Control Module				T												
P0A1C	Drive Motor "B" Control Module																
P0A1D	Hybrid Powertrain Control Module																
P0A1E	Starter/Generator Control Module																
P0A1F	Battery Energy Control Module	G															
P0A20	Motor Torque Sensor Circuit High																
P0A21	Motor Torque Sensor Circuit Intermittent																
P0A22	Generator Torque Sensor Circuit																
P0A23	Generator Torque Sensor Circuit Range/Performance	G	g	g													
P0A24	Generator Torque Sensor Circuit Low																
P0A25	Generator Torque Sensor Circuit High																
P0A26	Generator Torque Sensor Circuit Intermittent																
P0A27	Hybrid Battery Power Off Circuit	G															
P0A28	Hybrid Battery Power Off Circuit Low	G															
P0A29	Hybrid Battery Power Off Circuit High																
P0A2A	Drive Motor "A" Temperature Sensor Circuit				T												
P0A2B	Drive Motor "A" Temperature Sensor Circuit Range/Performance																
P0A2C	Drive Motor "A" Temperature Sensor Circuit Low																
P0A2D	Drive Motor "A" Temperature Sensor Circuit High																
P0A2E	Drive Motor "A" Temperature Sensor Circuit Intermittent																
P0A2F	Drive Motor "A" Over Temperature				T												
P0A30	Drive Motor "B" Temperature Sensor Circuit																
P0A31	Drive Motor "B" Temperature Sensor Circuit Range/Performance																
P0A32	Drive Motor "B" Temperature Sensor Circuit Low																
P0A33	Drive Motor "B" Temperature Sensor Circuit High																
P0A34	Drive Motor "B" Temperature Sensor Circuit Intermittent																

OBD-II Diagnostic Trouble Code Definitions		North America										Europe			Australia		SAE J1930 Component/System and I/O Type				
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel	Spark Ignition						
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER					Continuous	KOEO	KOER	Continuous	KOEO	KOER	
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P0A35	Drive Motor "B" Over Temperature																				
P0A36	Generator Temperature Sensor Circuit				T																
P0A37	Generator Temperature Sensor Circuit Range/Performance																				
P0A38	Generator Temperature Sensor Circuit Low																				
P0A39	Generator Temperature Sensor Circuit High																				
P0A3A	Generator Temperature Sensor Circuit Intermittent																				
P0A3B	Generator Over Temperature				T												D				
P0A3C	Drive Motor "A" Inverter Over Temperature				T																
P0A3D	Drive Motor "B" Inverter Over Temperature																				
P0A3E	Generator Inverter Over Temperature				T																
P0A3F	Drive Motor "A" Position Sensor Circuit																				
P0A40	Drive Motor "A" Position Sensor Circuit Range/Performance																				
P0A41	Drive Motor "A" Position Sensor Circuit Low																				
P0A42	Drive Motor "A" Position Sensor Circuit High																				
P0A43	Drive Motor "A" Position Sensor Circuit Intermittent																				
P0A44	Drive Motor "A" Position Sensor Circuit Overspeed				T																
P0A45	Drive Motor "B" Position Sensor Circuit																				
P0A46	Drive Motor "B" Position Sensor Circuit Range/Performance																				
P0A47	Drive Motor "B" Position Sensor Circuit Low																				
P0A48	Drive Motor "B" Position Sensor Circuit High																				
P0A49	Drive Motor "B" Position Sensor Circuit Intermittent																				
P0A4A	Drive Motor "B" Position Sensor Circuit Overspeed																				
P0A4B	Generator Position Sensor Circuit																				
P0A4C	Generator Position Sensor Circuit Range/Performance																				
P0A4D	Generator Position Sensor Circuit Low																				
P0A4E	Generator Position Sensor Circuit High																				
P0A4F	Generator Position Sensor Circuit Intermittent																				
P0A50	Generator Position Sensor Circuit Overspeed				T																
P0A51	Drive Motor "A" Current Sensor Circuit																				
P0A52	Drive Motor "A" Current Sensor Circuit Range/Performance																				
P0A53	Drive Motor "A" Current Sensor Circuit Low																				
P0A54	Drive Motor "A" Current Sensor Circuit High																				
P0A55	Drive Motor "B" Current Sensor Circuit																				
P0A56	Drive Motor "B" Current Sensor Circuit Range/Performance																				
P0A57	Drive Motor "B" Current Sensor Circuit Low																				
P0A58	Drive Motor "B" Current Sensor Circuit High																				
P0A59	Generator Current Sensor Circuit																				
P0A5A	Generator Current Sensor Circuit Range/Performance																				
P0A5B	Generator Current Sensor Circuit Low																				
P0A5C	Generator Current Sensor Circuit High																				
P0A5D	Drive Motor "A" Phase U Current																				
P0A5E	Drive Motor "A" Phase U Current Low																				
P0A5F	Drive Motor "A" Phase U Current High																				
P0A60	Drive Motor "A" Phase V Current																				
P0A61	Drive Motor "A" Phase V Current Low																				
P0A62	Drive Motor "A" Phase V Current High																				
P0A63	Drive Motor "A" Phase W Current																				
P0A64	Drive Motor "A" Phase W Current Low																				
P0A65	Drive Motor "A" Phase W Current High																				
P0A66	Drive Motor "B" Phase U Current																				
P0A67	Drive Motor "B" Phase U Current Low																				
P0A68	Drive Motor "B" Phase U Current High																				
P0A69	Drive Motor "B" Phase V Current																				
P0A6A	Drive Motor "B" Phase V Current Low																				
P0A6B	Drive Motor "B" Phase V Current High																				
P0A6C	Drive Motor "B" Phase W Current																				
P0A6D	Drive Motor "B" Phase W Current Low																				
P0A6E	Drive Motor "B" Phase W Current High																				
P0A6F	Generator Phase U Current																				
P0A70	Generator Phase U Current Low																				
P0A71	Generator Phase U Current High																				
P0A72	Generator Phase V Current																				





OBD-II Diagnostic Trouble Code Definitions		North America										Europe			Australia		SAE J1930 Component/System and I/O Type				
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel	Spark Ignition						
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER					Continuous	KOEO	KOER	Continuous	KOEO	KOER	
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P0AB1	Hybrid Battery Pack Air Temperature Sensor "B" Circuit																				
P0AB2	Hybrid Battery Pack Air Temperature Sensor "B" Circuit Range/Performance																				
P0AB3	Hybrid Battery Pack Air Temperature Sensor "B" Circuit Low																				
P0AB4	Hybrid Battery Pack Air Temperature Sensor "B" Circuit High																				
P0AB5	Hybrid Battery Pack Air Temperature Sensor "B" Circuit Intermittent/Erratic																				
P0AB6	Engine Mount Control "B" Circuit / Open																				
P0AB7	Engine Mount Control "B" Circuit Low																				
P0AB8	Engine Mount Control "B" Circuit High																				
P0AB9	Hybrid System Performance																				
P0ABA	Hybrid Battery Pack Voltage Sense "A" Circuit																				
P0ABB	Hybrid Battery Pack Voltage Sense "A" Circuit Range / Performance																				
P0ABC	Hybrid Battery Pack Voltage Sense "A" Circuit Low																				
P0ABD	Hybrid Battery Pack Voltage Sense "A" Circuit High																				
P0ABE	Hybrid Battery Pack Voltage Sense "A" Circuit Intermittent / Erratic																				
P0ABF	Hybrid Battery Pack Current Sensor "A" Circuit																				
P0AC0	Hybrid Battery Pack Current Sensor "A" Circuit Range / Performance																				
P0AC1	Hybrid Battery Pack Current Sensor "A" Circuit Low																				
P0AC2	Hybrid Battery Pack Current Sensor "A" Circuit High																				
P0AC3	Hybrid Battery Pack Current Sensor "A" Circuit Intermittent / Erratic																				
P0AC4	Hybrid Powertrain Control Module Requested MIL Illumination																				
P0AC5	Hybrid Battery Temperature Sensor "B" Circuit																				
P0AC6	Hybrid Battery Temperature Sensor "B" Circuit Range/Performance																				
P0AC7	Hybrid Battery Temperature Sensor "B" Circuit Low																				
P0AC8	Hybrid Battery Temperature Sensor "B" Circuit High																				
P0AC9	Hybrid Battery Temperature Sensor "B" Circuit Intermittent/Erratic																				
P0ACA	Hybrid Battery Temperature Sensor "C" Circuit																				
P0ACB	Hybrid Battery Temperature Sensor "C" Circuit Range/Performance																				
P0ACC	Hybrid Battery Temperature Sensor "C" Circuit Low																				
P0ACD	Hybrid Battery Temperature Sensor "C" Circuit High																				
P0ACE	Hybrid Battery Temperature Sensor "C" Circuit Intermittent/Erratic																				
P0ACF	Hybrid Battery Pack Cooling Fan 3 Control Circuit / Open																				
P0AD0	Hybrid Battery Pack Cooling Fan 3 Performance/Stuck Off																				
P0AD1	Hybrid Battery Pack Cooling Fan 3 Stuck On																				
P0AD2	Hybrid Battery Pack Cooling Fan 3 Control Circuit Low																				
P0AD3	Hybrid Battery Pack Cooling Fan 3 Control Circuit High																				
P0AD4	Hybrid Battery Pack Air Flow System Insufficient Air Flow																				
P0AD5	Hybrid Battery Pack Air Flow Valve "A" Control Circuit/Open																				
P0AD6	Hybrid Battery Pack Air Flow Valve "A" Control Circuit Range/Performance GM																				
P0AD7	Hybrid Battery Pack Air Flow Valve "A" Control Circuit Low																				
P0AD8	Hybrid Battery Pack Air Flow Valve "A" Control Circuit High																				
P0AD9	Hybrid Battery Positive Contactor Control Circuit/Open																				
P0ADA	Hybrid Battery Positive Contactor Control Circuit Range/Performance																				
P0ADB	Hybrid Battery Positive Contactor Control Circuit Low																				
P0ADC	Hybrid Battery Positive Contactor Control Circuit High																				
P0ADD	Hybrid Battery Negative Contactor Control Circuit/Open																				
P0ADE	Hybrid Battery Negative Contactor Control Circuit Range/Performance																				
P0ADF	Hybrid Battery Negative Contactor Control Circuit Low																				
P0AE0	Hybrid Battery Negative Contactor Control Circuit High																				
P0AE1	Hybrid Battery Precharge Contactor Circuit																				
P0AE2	Hybrid Battery Precharge Contactor Circuit Stuck Closed																				
P0AE3	Hybrid Battery Precharge Contactor Circuit Stuck Open																				
P0AE4	Hybrid Battery Precharge Contactor Control Circuit																				
P0AE5	Hybrid Battery Precharge Contactor Control Circuit Range/Performance																				
P0AE6	Hybrid Battery Precharge Contactor Control Circuit Low																				
P0AE7	Hybrid Battery Precharge Contactor Control Circuit High																				
P0AE8	Hybrid Battery Temperature Sensor "D" Circuit																				
P0AE9	Hybrid Battery Temperature Sensor "D" Range/Performance																				
P0AEA	Hybrid Battery Temperature Sensor "D" Circuit Low																				
P0AEB	Hybrid Battery Temperature Sensor "D" Circuit High																				
P0AEC	Hybrid Battery Temperature Sensor "D" Circuit Intermittent/Erratic																				
P0AED	Drive Motor Inverter Temperature Sensor "A" Circuit																				
P0AEE	Drive Motor Inverter Temperature Sensor "A" Circuit Range/Performance																				

OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type			
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel	Spark Ignition						
	* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used	Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER					Continuous	KOEO	KOER	Continuous	KOEO	KOER	
	Capital and small usage letters are used for visual impact only! Mazda, Nissan and Land Rover legacy DTCs are for reference. Ford P/T was not responsible for assigning these DTCs. Shading indicates change from previous version.																				A = Analog D = Digital F = Frequency I = Input O = Output
P0AEF	Drive Motor Inverter Temperature Sensor "A" Circuit Low																				
P0AF0	Drive Motor Inverter Temperature Sensor "A" Circuit High																				
P0AF1	Drive Motor Inverter Temperature Sensor "A" Circuit Intermittent/Erratic																				
P0AF2	Drive Motor Inverter Temperature Sensor "B" Circuit																				
P0AF3	Drive Motor Inverter Temperature Sensor "B" Circuit Range/Performance																				
P0AF4	Drive Motor Inverter Temperature Sensor "B" Circuit Low																				
P0AF5	Drive Motor Inverter Temperature Sensor "B" Circuit High																				
P0AF6	Drive Motor Inverter Temperature Sensor "B" Circuit Intermittent/Erratic																				
P0AF7	14 Volt Power Module Internal Temperature Too High																				
P0AF8	Hybrid Battery System Voltage																				
P0AF9	Hybrid Battery System Voltage Unstable																				
P0AFA	Hybrid Battery System Voltage Low																				
P0AFB	Hybrid Battery System Voltage High																				
P0AFC	Hybrid Battery Pack Sensor Module																				
P0AFD	Hybrid Battery Pack Temperature Too Low																				
P0AFE	Hybrid Battery System Voltage Too Low for Step Up Conversion																				
P0AFF	System Voltage Too Low for Step Down Conversion																				
	Hybrid Propulsion																				
P0B00	Auxilliary Transmission Fluid Pump Motor Phase U Current																				
P0B01	Auxilliary Transmission Fluid Pump Motor Phase U Current Low																				
P0B02	Auxilliary Transmission Fluid Pump Motor Phase U Current High																				
P0B03	Auxilliary Transmission Fluid Pump Motor Phase V Current																				
P0B04	Auxilliary Transmission Fluid Pump Motor Phase V Current Low																				
P0B05	Auxilliary Transmission Fluid Pump Motor Phase V Current High																				
P0B06	Auxilliary Transmission Fluid Pump Motor Phase W Current																				
P0B07	Auxilliary Transmission Fluid Pump Motor Phase W Current Low																				
P0B08	Auxilliary Transmission Fluid Pump Motor Phase W Current High																				
P0B09	Auxilliary Transmission Fluid Pump Motor Supply Voltage Current / Open																				
P0B0A	Auxilliary Transmission Fluid Pump Motor Supply Voltage Current Low																				
P0B0B	Auxilliary Transmission Fluid Pump Motor Supply Voltage Current High																				
P0B0C	Auxilliary Transmission Fluid Pump Hydraulic Leakage																				
P0B0D	Auxilliary Transmission Fluid Pump Motor Control Module																				
P0B0E	Hybrid Battery Pack Current Sensor "B" Circuit																				
P0B0F	Hybrid Battery Pack Current Sensor "B" Circuit Range / Performance																				
P0B10	Hybrid Battery Pack Current Sensor "B" Circuit Low																				
P0B11	Hybrid Battery Pack Current Sensor "B" Circuit High																				
P0B12	Hybrid Battery Pack Current Sensor "B" Circuit Intermittent / Erratic																				
P0B13	Hybrid Battery Pack Current Sensor "A" / "B" Correlation																				
P0B14	Hybrid Battery Pack Voltage Sense "B" Circuit																				
P0B15	Hybrid Battery Pack Voltage Sense "B" Circuit Range / Performance																				
P0B16	Hybrid Battery Pack Voltage Sense "B" Circuit Low																				
P0B17	Hybrid Battery Pack Voltage Sense "B" Circuit High																				
P0B18	Hybrid Battery Pack Voltage Sense "B" Circuit Intermittent / Erratic																				
P0B19	Hybrid Battery Pack Voltage Sense "C" Circuit																				
P0B1A	Hybrid Battery Pack Voltage Sense "C" Circuit Range / Performance																				
P0B1B	Hybrid Battery Pack Voltage Sense "C" Circuit Low																				
P0B1C	Hybrid Battery Pack Voltage Sense "C" Circuit High																				
P0B1D	Hybrid Battery Pack Voltage Sense "C" Circuit Intermittent / Erratic																				
P0B1E	Hybrid Battery Pack Voltage Sense "D" Circuit																				
P0B1F	Hybrid Battery Pack Voltage Sense "D" Circuit Range / Performance																				
P0B20	Hybrid Battery Pack Voltage Sense "D" Circuit Low																				
P0B21	Hybrid Battery Pack Voltage Sense "D" Circuit High																				
P0B22	Hybrid Battery Pack Voltage Sense "D" Circuit Intermittent / Erratic																				
P0B23	Hybrid Battery "A" Voltage																				
P0B24	Hybrid Battery "A" Voltage Unstable																				
P0B25	Hybrid Battery "A" Voltage Low																				
P0B26	Hybrid Battery "A" Voltage High																				
P0B27	Hybrid Battery "B" Voltage																				
P0B28	Hybrid Battery "B" Voltage Unstable																				
P0B29	Hybrid Battery "B" Voltage Low																				
P0B2A	Hybrid Battery "B" Voltage High																				

OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type			
		Spark Ignition PCM																			
	* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used	Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER											
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P0B2B	Hybrid Battery "C" Voltage																				
P0B2C	Hybrid Battery "C" Voltage Unstable																				
P0B2D	Hybrid Battery "C" Voltage Low																				
P0B2E	Hybrid Battery "C" Voltage High																				
P0B2F	Hybrid Battery "D" Voltage																				
P0B30	Hybrid Battery "D" Voltage Unstable																				
P0B31	Hybrid Battery "D" Voltage Low																				
P0B32	Hybrid Battery "D" Voltage High																				
P0B33	High Voltage Service Disconnect Circuit																				
P0B34	High Voltage Service Disconnect Circuit Performance																				
P0B35	High Voltage Service Disconnect Circuit Low																				
P0B36	High Voltage Service Disconnect Circuit High																				
P0B37	High Voltage Service Disconnect Open																				
P0B38	Motor Electronics Coolant Pump "B" Control Circuit / Open																				
P0B39	Motor Electronics Coolant Pump "B" Control Circuit Low																				
P0B3A	Motor Electronics Coolant Pump "B" Control Circuit High																				
P0B3B	Hybrid Battery Voltage Sense "A" Circuit																				
P0B3C	Hybrid Battery Voltage Sense "A" Circuit Range/Performance																				
P0B3D	Hybrid Battery Voltage Sense "A" Circuit Low																				
P0B3E	Hybrid Battery Voltage Sense "A" Circuit High																				
P0B3F	Hybrid Battery Voltage Sense "A" Circuit Intermittent / Erratic																				
P0B40	Hybrid Battery Voltage Sense "B" Circuit																				
P0B41	Hybrid Battery Voltage Sense "B" Circuit Range/Performance																				
P0B42	Hybrid Battery Voltage Sense "B" Circuit Low																				
P0B43	Hybrid Battery Voltage Sense "B" Circuit High																				
P0B44	Hybrid Battery Voltage Sense "B" Circuit Intermittent / Erratic																				
P0B45	Hybrid Battery Voltage Sense "C" Circuit																				
P0B46	Hybrid Battery Voltage Sense "C" Circuit Range/Performance																				
P0B47	Hybrid Battery Voltage Sense "C" Circuit Low																				
P0B48	Hybrid Battery Voltage Sense "C" Circuit High																				
P0B49	Hybrid Battery Voltage Sense "C" Circuit Intermittent / Erratic																				
P0B4A	Hybrid Battery Voltage Sense "D" Circuit																				
P0B4B	Hybrid Battery Voltage Sense "D" Circuit Range/Performance																				
P0B4C	Hybrid Battery Voltage Sense "D" Circuit Low																				
P0B4D	Hybrid Battery Voltage Sense "D" Circuit High																				
P0B4E	Hybrid Battery Voltage Sense "D" Circuit Intermittent / Erratic																				
P0B4F	Hybrid Battery Voltage Sense "E" Circuit																				
P0B50	Hybrid Battery Voltage Sense "E" Circuit Range/Performance																				
P0B51	Hybrid Battery Voltage Sense "E" Circuit Low																				
P0B52	Hybrid Battery Voltage Sense "E" Circuit High																				
P0B53	Hybrid Battery Voltage Sense "E" Circuit Intermittent / Erratic																				
P0B54	Hybrid Battery Voltage Sense "F" Circuit																				
P0B55	Hybrid Battery Voltage Sense "F" Circuit Range/Performance																				
P0B56	Hybrid Battery Voltage Sense "F" Circuit Low																				
P0B57	Hybrid Battery Voltage Sense "F" Circuit High																				
P0B58	Hybrid Battery Voltage Sense "F" Circuit Intermittent / Erratic																				
P0B59	Hybrid Battery Voltage Sense "G" Circuit																				
P0B5A	Hybrid Battery Voltage Sense "G" Circuit Range/Performance																				
P0B5B	Hybrid Battery Voltage Sense "G" Circuit Low																				
P0B5C	Hybrid Battery Voltage Sense "G" Circuit High																				
P0B5D	Hybrid Battery Voltage Sense "G" Circuit Intermittent / Erratic																				
P0B5E	Hybrid Battery Voltage Sense "H" Circuit																				
P0B5F	Hybrid Battery Voltage Sense "H" Circuit Range/Performance																				
P0B60	Hybrid Battery Voltage Sense "H" Circuit Low																				
P0B61	Hybrid Battery Voltage Sense "H" Circuit High																				
P0B62	Hybrid Battery Voltage Sense "H" Circuit Intermittent / Erratic																				
P0B63	Hybrid Battery Voltage Sense "I" Circuit																				
P0B64	Hybrid Battery Voltage Sense "I" Circuit Range/Performance																				
P0B65	Hybrid Battery Voltage Sense "I" Circuit Low																				
P0B66	Hybrid Battery Voltage Sense "I" Circuit High																				
P0B67	Hybrid Battery Voltage Sense "I" Circuit Intermittent / Erratic																				
P0B68	Hybrid Battery Voltage Sense "J" Circuit																				

OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type					
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel	Spark Ignition								
	* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used	Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER					Continuous	KOEO	KOER	Continuous	KOEO	KOER			
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P0B69	Hybrid Battery Voltage Sense "J" Circuit Range/Performance																						
P0B6A	Hybrid Battery Voltage Sense "J" Circuit Low																						
P0B6B	Hybrid Battery Voltage Sense "J" Circuit High																						
P0B6C	Hybrid Battery Voltage Sense "J" Circuit Intermittent / Erratic																						
P0B6D	Hybrid Battery Voltage Sense "K" Circuit																						
P0B6E	Hybrid Battery Voltage Sense "K" Circuit Range/Performance																						
P0B6F	Hybrid Battery Voltage Sense "K" Circuit Low																						
P0B70	Hybrid Battery Voltage Sense "K" Circuit High																						
P0B71	Hybrid Battery Voltage Sense "K" Circuit Intermittent / Erratic																						
P0B72	Hybrid Battery Voltage Sense "L" Circuit																						
P0B73	Hybrid Battery Voltage Sense "L" Circuit Range/Performance																						
P0B74	Hybrid Battery Voltage Sense "L" Circuit Low																						
P0B75	Hybrid Battery Voltage Sense "L" Circuit High																						
P0B76	Hybrid Battery Voltage Sense "L" Circuit Intermittent / Erratic																						
P0B77	Hybrid Battery Voltage Sense "M" Circuit																						
P0B78	Hybrid Battery Voltage Sense "M" Circuit Range/Performance																						
P0B79	Hybrid Battery Voltage Sense "M" Circuit Low																						
P0B7A	Hybrid Battery Voltage Sense "M" Circuit High																						
P0B7B	Hybrid Battery Voltage Sense "M" Circuit Intermittent / Erratic																						
P0B7C	Hybrid Battery Voltage Sense "N" Circuit																						
P0B7D	Hybrid Battery Voltage Sense "N" Circuit Range / Performance																						
P0B7E	Hybrid Battery Voltage Sense "N" Circuit Low																						
P0B7F	Hybrid Battery Voltage Sense "N" Circuit High																						
P0B80	Hybrid Battery Voltage Sense "N" Circuit Intermittent / Erratic																						
P0B81	Hybrid Battery Voltage Sense "O" Circuit																						
P0B82	Hybrid Battery Voltage Sense "O" Circuit Range / Performance																						
P0B83	Hybrid Battery Voltage Sense "O" Circuit Low																						
P0B84	Hybrid Battery Voltage Sense "O" Circuit High																						
P0B85	Hybrid Battery Voltage Sense "O" Circuit Intermittent / Erratic																						
P0B86	Hybrid Battery Voltage Sense "P" Circuit																						
P0B87	Hybrid Battery Voltage Sense "P" Circuit Range / Performance																						
P0B88	Hybrid Battery Voltage Sense "P" Circuit Low																						
P0B89	Hybrid Battery Voltage Sense "P" Circuit High																						
P0B8A	Hybrid Battery Voltage Sense "P" Circuit Intermittent / Erratic																						
P0B8B	Hybrid Battery Voltage Sense "Q" Circuit																						
P0B8C	Hybrid Battery Voltage Sense "Q" Circuit Range / Performance																						
P0B8D	Hybrid Battery Voltage Sense "Q" Circuit Low																						
P0B8E	Hybrid Battery Voltage Sense "Q" Circuit High																						
P0B8F	Hybrid Battery Voltage Sense "Q" Circuit Intermittent / Erratic																						
P0B90	Hybrid Battery Voltage Sense "R" Circuit																						
P0B91	Hybrid Battery Voltage Sense "R" Circuit Range / Performance																						
P0B92	Hybrid Battery Voltage Sense "R" Circuit Low																						
P0B93	Hybrid Battery Voltage Sense "R" Circuit High																						
P0B94	Hybrid Battery Voltage Sense "R" Circuit Intermittent / Erratic																						
P0B95	Hybrid Battery Voltage Sense "S" Circuit																						
P0B96	Hybrid Battery Voltage Sense "S" Circuit Range / Performance																						
P0B97	Hybrid Battery Voltage Sense "S" Circuit Low																						
P0B98	Hybrid Battery Voltage Sense "S" Circuit High																						
P0B99	Hybrid Battery Voltage Sense "S" Circuit Intermittent / Erratic																						
P0B9A	Hybrid Battery Voltage Sense "T" Circuit																						
P0B9B	Hybrid Battery Voltage Sense "T" Circuit Range / Performance																						
P0B9C	Hybrid Battery Voltage Sense "T" Circuit Low																						
P0B9D	Hybrid Battery Voltage Sense "T" Circuit High																						
P0B9E	Hybrid Battery Voltage Sense "T" Circuit Intermittent / Erratic																						
P0B9F	Hybrid Battery Voltage Sense "U" Circuit																						
P0BA0	Hybrid Battery Voltage Sense "U" Circuit Range / Performance																						
P0BA1	Hybrid Battery Voltage Sense "U" Circuit Low																						
P0BA2	Hybrid Battery Voltage Sense "U" Circuit High																						
P0BA3	Hybrid Battery Voltage Sense "U" Circuit Intermittent / Erratic																						
P0BA4	Hybrid Battery Voltage Sense "V" Circuit																						
P0BA5	Hybrid Battery Voltage Sense "V" Circuit Range / Performance																						
P0BA6	Hybrid Battery Voltage Sense "V" Circuit Low																						

OBD-II Diagnostic Trouble Code Definitions		North America										Europe			Australia		SAE J1930 Component/ System and I/O Type		
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition	Diesel	Spark Ignition					
	* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used	Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER									
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P0BA7	Hybrid Battery Voltage Sense "V" Circuit High																		
P0BA8	Hybrid Battery Voltage Sense "V" Circuit Intermittent / Erratic																		
P0BA9	Hybrid Battery Voltage Sense "W" Circuit																		
P0BAA	Hybrid Battery Voltage Sense "W" Circuit Range / Performance																		
P0BAB	Hybrid Battery Voltage Sense "W" Circuit Low																		
P0BAC	Hybrid Battery Voltage Sense "W" Circuit High																		
P0BAD	Hybrid Battery Voltage Sense "W" Circuit Intermittent / Erratic																		
P0BAE	Hybrid Battery Voltage Sense "X" Circuit																		
P0BAF	Hybrid Battery Voltage Sense "X" Circuit Range / Performance																		
P0BB0	Hybrid Battery Voltage Sense "X" Circuit Low																		
P0BB1	Hybrid Battery Voltage Sense "X" Circuit High																		
P0BB2	Hybrid Battery Voltage Sense "X" Circuit Intermittent / Erratic																		
P0BB3	Hybrid Battery Voltage Sense "Y" Circuit																		
P0BB4	Hybrid Battery Voltage Sense "Y" Circuit Range / Performance																		
P0BB5	Hybrid Battery Voltage Sense "Y" Circuit Low																		
P0BB6	Hybrid Battery Voltage Sense "Y" Circuit High																		
P0BB7	Hybrid Battery Voltage Sense "Y" Circuit Intermittent / Erratic																		
P0BB8	Hybrid Battery Voltage Sense "Z" Circuit																		
P0BB9	Hybrid Battery Voltage Sense "Z" Circuit Range / Performance																		
P0BBA	Hybrid Battery Voltage Sense "Z" Circuit Low																		
P0BBB	Hybrid Battery Voltage Sense "Z" Circuit High																		
P0BBC	Hybrid Battery Voltage Sense "Z" Circuit Intermittent / Erratic																		
P0BBD	Hybrid Battery Pack Voltage Variation Exceeded Limit																		
P0BBE	Hybrid Battery Pack Voltage Variation																		
P0BBF	Hybrid Battery Pack Cooling Fan Supply Voltage Circuit / Open																		
P0BC0	Hybrid Battery Pack Cooling Fan Supply Voltage Circuit Low																		
P0BC1	Hybrid Battery Pack Cooling Fan Supply Voltage Circuit High																		
P0BC2	Hybrid Battery Temperature Sensor "E" Circuit																		
P0BC3	Hybrid Battery Temperature Sensor "E" Range/Performance																		
P0BC4	Hybrid Battery Temperature Sensor "E" Circuit Low																		
P0BC5	Hybrid Battery Temperature Sensor "E" Circuit High																		
P0BC6	Hybrid Battery Temperature Sensor "E" Circuit Intermittent/Erratic																		
P0BC7	Hybrid Battery Pack Cooling Fan Sense Circuit / Open																		
P0BC8	Hybrid Battery Pack Cooling Fan Sense Circuit Range/Performance																		
P0BC9	Hybrid Battery Pack Cooling Fan Sense Circuit Low																		
P0BCA	Hybrid Battery Pack Cooling Fan Sense Circuit High																		
P0BCB	Hybrid Battery Pack Cooling Fan Sense Circuit Intermittent/Erratic																		
P0BCC	Generator Inverter Temperature Sensor Circuit																		
P0BCD	Generator Inverter Temperature Sensor Circuit Range/Performance																		
P0BCE	Generator Inverter Temperature Sensor Circuit Low																		
P0BCF	Generator Inverter Temperature Sensor Circuit High																		
P0BD0	Generator Inverter Temperature Sensor Circuit Intermittent/Erratic																		
P0BD1	Drive Motor Inverter Temperature Sensor "C" Circuit																		
P0BD2	Drive Motor Inverter Temperature Sensor "C" Circuit Range/Performance																		
P0BD3	Drive Motor Inverter Temperature Sensor "C" Circuit Low																		
P0BD4	Drive Motor Inverter Temperature Sensor "C" Circuit High																		
P0BD5	Drive Motor Inverter Temperature Sensor "C" Circuit Intermittent/Erratic																		
P0BD6	Drive Motor Inverter Temperature Sensor "D" Circuit																		
P0BD7	Drive Motor Inverter Temperature Sensor "D" Circuit Range/Performance																		
P0BD8	Drive Motor Inverter Temperature Sensor "D" Circuit Low																		
P0BD9	Drive Motor Inverter Temperature Sensor "D" Circuit High																		
P0BDA	Drive Motor Inverter Temperature Sensor "D" Circuit Intermittent/Erratic																		
P0BDB	Drive Motor Inverter Temperature Sensor "E" Circuit																		
P0BDC	Drive Motor Inverter Temperature Sensor "E" Circuit Range/Performance																		
P0 added	Drive Motor Inverter Temperature Sensor "E" Circuit Low																		
P0 added	Drive Motor Inverter Temperature Sensor "E" Circuit High																		
P0 added	Drive Motor Inverter Temperature Sensor "E" Circuit Intermittent/Erratic																		
P0 added	Drive Motor Inverter Temperature Sensor "F" Circuit																		
P0 added	Drive Motor Inverter Temperature Sensor "F" Circuit Range/Performance																		
P0 added	Drive Motor Inverter Temperature Sensor "F" Circuit Low																		
P0 added	Drive Motor Inverter Temperature Sensor "F" Circuit High																		
P0 added	Drive Motor Inverter Temperature Sensor "F" Circuit Intermittent/Erratic																		



OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type			
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel	Spark Ignition						
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER					Continuous	KOEO	KOER	Continuous	KOEO	KOER	
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P0C23	Auxiliary Transmission Fluid Pump Control Module Circuit / Open																				
P0C24	Auxiliary Transmission Fluid Pump Control Module Circuit Low																				
P0C25	Auxiliary Transmission Fluid Pump Control Module Circuit High																				
P0C26	Auxiliary Transmission Fluid Pump Motor Current																				
P0C27	Auxiliary Transmission Fluid Pump Motor Current Low																				
P0C28	Auxiliary Transmission Fluid Pump Motor Current High																				
P0C29	Auxiliary Transmission Fluid Pump Driver Circuit Performance																				
P0C2A	Auxiliary Transmission Fluid Pump Motor Stalled																				
P0C2B	Auxiliary Transmission Fluid Pump Control Module Feedback Signal																				
P0C2C	Auxiliary Transmission Fluid Pump Control Module Feedback Signal Range/Performance																				
P0C2D	Auxiliary Transmission Fluid Pump Control Module Feedback Signal Low																				
P0C2E	Auxiliary Transmission Fluid Pump Control Module Feedback Signal High																				
P0C2F	Internal Control Module Drive Motor/Generator-Engine Speed Sensor Performance																				
P0C30	Hybrid Battery Pack State of Charge High																				
P0C31	Inverter "B" Cooling System Performance																				
P0C32	Hybrid Battery Cooling System Performance																				
P0C33	Hybrid Battery Temperature Sensor "F" Circuit																				
P0C34	Hybrid Battery Temperature Sensor "F" Range/Performance																				
P0C35	Hybrid Battery Temperature Sensor "F" Circuit Low																				
P0C36	Hybrid Battery Temperature Sensor "F" Circuit High																				
P0C37	Hybrid Battery Temperature Sensor "F" Circuit Intermittent/Erratic																				
P0C38	DC/DC Converter Temperature Sensor "A" Circuit																				
P0C39	DC/DC Converter Temperature Sensor "A" Circuit Range/Performanc																				
P0C3A	DC/DC Converter Temperature Sensor "A" Circuit Low																				
P0C3B	DC/DC Converter Temperature Sensor "A" Circuit High																				
P0C3C	DC/DC Converter Temperature Sensor "A" Circuit Intermittent/Erratic																				
P0C3D	DC/DC Converter Temperature Sensor "B" Circuit																				
P0C3E	DC/DC Converter Temperature Sensor "B" Circuit Range/Performanc																				
P0C3F	DC/DC Converter Temperature Sensor "B" Circuit Low																				
P0C40	DC/DC Converter Temperature Sensor "B" Circuit High																				
P0C41	DC/DC Converter Temperature Sensor "B" Circuit Intermittent/Erratic																				
P0C42	Hybrid Battery Pack Coolant Temperature Sensor Circuit																				
P0C43	Hybrid Battery Pack Coolant Temperature Sensor Circuit Range/Performance																				
P0C44	Hybrid Battery Pack Coolant Temperature Sensor Circuit Low																				
P0C45	Hybrid Battery Pack Coolant Temperature Sensor Circuit High																				
P0C46	Hybrid Battery Pack Coolant Temperature Sensor Circuit Intermittent/Erratic																				
P0C47	Hybrid Battery Pack Coolant Pump Control Circuit / Open																				
P0C48	Hybrid Battery Pack Coolant Pump Control Circuit Low																				
P0C49	Hybrid Battery Pack Coolant Pump Control Circuit High																				
P0C4A	Hybrid Battery Pack Coolant Pump Control Performance																				
P0C4B	Hybrid Battery Pack Coolant Pump Supply Voltage Circuit / Open																				
P0C4C	Hybrid Battery Pack Coolant Pump Supply Voltage Circuit Low																				
P0C4D	Hybrid Battery Pack Coolant Pump Supply Voltage Circuit High																				
P0C4E	Drive Motor "A" Position Exceeded Learning Limit																				
P0C4F	Drive Motor "B" Position Exceeded Learning Limit																				
P0C50	Drive Motor "A" Position Sensor Circuit "A"																				
P0C51	Drive Motor "A" Position Sensor Circuit "A" Range/Performance																				
P0C52	Drive Motor "A" Position Sensor Circuit "A" Low																				
P0C53	Drive Motor "A" Position Sensor Circuit "A" High																				
P0C54	Drive Motor "A" Position Sensor Circuit "A" Intermittent/Erratic																				
P0C55	Drive Motor "A" Position Sensor Circuit B																				
P0C56	Drive Motor "A" Position Sensor Circuit "B" Range/Performance																				
P0C57	Drive Motor "A" Position Sensor Circuit "B" Low																				
P0C58	Drive Motor "A" Position Sensor Circuit "B" High																				
P0C59	Drive Motor "A" Position Sensor Circuit "B" Intermittent/Erratic																				
P0C5A	Drive Motor "B" Position Sensor Circuit "A"																				
P0C5B	Drive Motor "B" Position Sensor Circuit "A" Range/Performance																				
P0C5C	Drive Motor "B" Position Sensor Circuit "A" Low																				
P0C5D	Drive Motor "B" Position Sensor Circuit "A" High																				
P0C5E	Drive Motor "B" Position Sensor Circuit "A" Intermittent/Erratic																				
P0C5F	Drive Motor "B" Position Sensor Circuit B																				
P0C60	Drive Motor "B" Position Sensor Circuit "B" Range/Performance																				





OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type				
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda		Jaguar		Land Rover		Nissan		Spark Ignition			Diesel		Spark Ignition	
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOER	Continuous	KOER	Continuous	KOER							Continuous	KOER	Continuous	KOER	Continuous	KOER			
Capital and small usage letters are used for visual impact only! Mazda, Nissan and Land Rover legacy DTCs are for reference. Ford P/T was not responsible for assigning these DTCs. Shading indicates change from previous version.																						A = Analog D = Digital F = Frequency I = Input O = Output
P1000	OBD Systems Readiness Test Not Complete	G	g	g				D	d	M	J	L		E	e							
P1001	KOER Not Able to Complete, KOER Aborted		g	g					d	M					e							
P1100	Mass Air Flow Sensor Circuit Intermittent	G								M				E								MAF
P1101	Mass Air Flow Sensor Out Of Self Test Range		g	g						M					e	e	D					MAF
P1102	Mass Air Flow Sensor In Range But Lower Than Expected							D*	d	M*												MAF
P1103	Mass Air Flow Sensor In Range But Higher Than Expected							D*	d	M*												MAF
P1104																						
P1105	Dual Alternator Upper Fault							D														
P1106	Dual Alternator Lower Fault							D														
P1107	Dual Alternator Lower Circuit							D*														
P1108	Dual Alternator Battery Lamp Circuit							D														
P1109	Intake Air Temperature 2 Circuit Intermittent	G																				IAT2
P1110	Intake Air Temperature Circuit (D/C) Open/Short									M												
P1111	System Pass							D	d	d	J											
P1112	Intake Air Temperature Circuit Intermittent	G								M				E								IAT
P1113	Intake Air Temperature Circuit (L/C) Open/Short									M												
P1114	Intake Air Temperature 2 Circuit Low (Super/Turbocharged engines)	G*	g	g																		IAT2
P1115	Intake Air Temperature 2 Circuit High (Super/Turbocharged engines)	G*	g	g																		IAT2
P1116	Engine Coolant Temperature Sensor Out Of Self Test Range		g	g						M					e	e						ECT
P1117	Engine Coolant Temperature Sensor Circuit Intermittent	G								M				E								ECT
P1118	Manifold Air Temperature Circuit Low							D*	d													IAT2
P1119	Manifold Air Temperature Circuit High							D*	d													IAT2
P1120	Throttle Position Sensor "A" Out Of Range Low (Ratch too low)	G*	g	g										E*	g	g						TP-A
P1121	Throttle Position Sensor "A" Inconsistent With MAF/MAP Sensor	G*												E								TP-A
P1122	Pedal Position Sensor "A" Circuit Low	G	g	g							J*											PP-A
P1123	Pedal Position Sensor "A" Circuit High	G	g	g							J*											PP-A
P1124	Throttle Position Sensor "A" Out Of Self Test Range		g	g											e	e						TP-A
P1125	Throttle Position Sensor "A" Intermittent	G								M				E						U		TP-A
P1126	Throttle Position (Narrow Range) Sensor Circuit									M												
P1127	Exhaust Temperature Out of Range, O2 Sensor Tests Not Completed			g											e							HO2Sxx
P1128	Upstream HO2S Sensors Swapped			g						M					e							HO2Sx1
P1129	Downstream HO2S Sensors Swapped			g						M					e							HO2Sx2
P1130	Lack Of HO2S11 Switches - Fuel Trim At Limit	G*								M				E*								HO2S11
P1131	Lack Of HO2S11 Switches - Sensor Indicates Lean	G*		g						M				E*	e							HO2S11
P1132	Lack Of HO2S11 Switches - Sensor Indicates Rich	G*		g						M				E*	e							HO2S11
P1133	Bank 1 Fuel Control Shifted Lean (FAOSC)	[G*]								M												
P1134	Bank 1 Fuel Control Shifted Rich (FAOSC)	[G*]								M												
P1135	Pedal Position Sensor "A" Circuit Intermittent	G	g	g																		PP-A
P1136	Control Box Fan Circuit										J											
P1137	Lack Of HO2S12 Switches - Sensor Indicates Lean			g						M	J				e							HO2S12
P1138	Lack Of HO2S12 Switches - Sensor Indicates Rich			g						M	J				e							HO2S12
P1139	Water in Fuel Indicator Circuit							D	d	d												
P1140	Water in Fuel Condition							D	d	d												
P1141	Fuel Restriction Indicator Circuit							D														
P1142	Fuel Restriction Condition							D														
P1143	Air Assisted Injector Control Valve Range/Performance										J*											
P1144	Air Assisted Injector Control Valve Circuit										J*											
P1145	Calculated Torque Error	G		T										E		D						
P1146	Alternator Load Low										J											
P1147	Manifold Air Temperature / Intake Air Temperature Correlation																					
P1148	Generator 2 Control Circuit							D	d	d												
P1149	Generator 2 Monitor Circuit High							D*	d	d												
P1150	Lack Of HO2S21 Switches - Fuel Trim At Limit	G*								M				E*								HO2S21
P1151	Lack Of HO2S21 Switches - Sensor Indicates Lean	G*		g						M				E*	e							HO2S21
P1152	Lack Of HO2S21 Switches - Sensor Indicates Rich	G*		g						M				E*	e							HO2S21
P1153	Bank 2 Fuel Control Shifted Lean (FAOSC)	[G*]								M												
P1154	Bank 2 Fuel Control Shifted Rich (FAOSC)	[G*]								M												
P1155	Alternative Fuel Control Module Has Activated the MIL	G												E*								
P1156	Fuel Select Switch Circuit	G												E						U		
P1157	Lack Of HO2S22 Switches - Sensor Indicates Lean			g							J				e							HO2S22
P1158	Lack Of HO2S22 Switches - Sensor Indicates Rich			g							J				e							HO2S22
P1159	Fuel Stepper Motor																			U		



OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel				
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	Continuous	KOEO	Continuous	KOEO									Continuous	KOEO	KOER
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P1204	Cylinder #4 Injector Circuit Open/Shorted								J									INJ-4
P1205	Cylinder #5 Injector Circuit Open/Shorted								J									INJ-5
P1206	Cylinder #6 Injector Circuit Open/Shorted								J									INJ-6
P1207	Cylinder #7 Injector Circuit Open/Shorted								J									INJ-7
P1208	Cylinder #8 Injector Circuit Open/Shorted								J									INJ-8
P1209	Injector Control Pressure Peak Delta Test Fault						D*								D*			
P120A	Secondary Fuel Injector Insufficient Flow (Bank 1)			g														
P120B	Secondary Fuel Injector Excessive Flow (Bank 1)			g														
P120C	Secondary Fuel Injector Insufficient Flow (Bank 2)			g														
P120D	Secondary Fuel Injector Excessive Flow (Bank 2)			g														
P120E	Fuel Pressure Sensor Circuit "A" - Excessive Variation																	
P120F	Fuel Pressure Regulator Excessive Variation						D											
P1210	Injector Control Pressure Higher Than Desired (engine off)						D*	d							D			
P1211	Injector Control Pressure Higher/Lower Than Desired (engine running)						D*	d	d						D*			
P1212	Injector Control Pressure Lower Than Desired (engine crank or run)						D	d							D			
P1213	Start Injector Circuit								M									
P1214	Pedal Position Sensor "B" Circuit Intermittent	G	g	g														PP-B
P1215	Pedal Position Sensor "C" Circuit Low	G	g	g														PP-C
P1216	Pedal Position Sensor "C" Circuit High	G	g	g														PP-C
P1217	Pedal Position Sensor "C" Circuit Intermittent	G	g	g														PP-C
P1218	CID High						D	d										
P1219	CID Low						D	d										
P121A	Cylinder Balance – Injector Restricted																	
P121B	Cylinder Balance – Injector Stuck Closed																	
P121C	Cylinder Balance – Injector Leaking																	
P121D																		
P121E																		
P121F																		
P1220	Series Throttle Control System	G	g	g														
P1221	Traction Control System	[G]	[g]	[g]					M						U			
P1222	Pedal Position Sensor "B" Circuit Low	G	g	g														PP-B
P1223	Pedal Position Sensor "B" Circuit High	G	g	g														PP-B
P1224	Throttle Position Sensor "B" Out Of Self Test Range			g	g													TP-B
P1225	Needle Lift Sensor											E						
P1226	Control Sleeve Sensor Circuit								M			E						
P1227	Wastegate Failed Closed (Over pressure)	G*																TCWGS
P1228	Wastegate Failed Open (Under pressure)	G*																TCWGS
P1229	Charge Air Cooler Pump Driver	G	g	g														CAC
P1230	Fuel Pump Low Speed Malfunction (VLCM)	G	g															FP-VLCM
P1231	Fuel Pump Secondary Circuit Low, High Speed (VLCM)	G	g															FP-VLCM
P1232	Fuel Pump Speed Primary Circuit (Two speed fuel pump)	G	g															FP
P1233	Fuel Pump Driver Module Disabled or Off Line (Fuel Pump Driver Module)	G*	g	g					J									FP-FPDM
P1234	Fuel Pump Driver Module Disabled or Off Line (Fuel Pump Driver Module)	G*	g	g					J									FP-FPDM
P1235	Fuel Pump Control out Of Range (Fuel Pump Driver Module/VLCM)	G*	g	g					J									FP-FPDM/VLCM
P1236	Fuel Pump Control Out Of Range (Fuel Pump Driver Module)	G*	g						J									FP-FPDM/VLCM
P1237	Fuel Pump Secondary Circuit (Fuel Pump Driver Module)	G*	g	g														FP-FPDM
P1238	Fuel Pump Secondary Circuit (Fuel Pump Driver Module)	G*	g	g														FP-FPDM
P1239	Speed Fuel Pump Positive Feed	G																
P123A	BARO - Turbocharger/Supercharger Boost Sensor "A" Correlation																	
P123B	BARO - Turbocharger/Supercharger Boost Sensor "B" Correlation																	
P123C	Cold Start Turbocharger Protection - Forced Limited Power						D											
P123D																		
P123E																		
P123F																		
P1240	Sensor Power Supply								J*						D			
P1241	Sensor Power Supply Low								J*									
P1242	Sensor Power Supply High								J*									
P1243	Second Fuel Pump Fault or Ground Fault	G*																
P1244	Alternator Load High Input	G	g									E	e	D				
P1245	Alternator Load Low Input	G	g									E	e	D				
P1246	Alternator Load Input	G	g									E	e	D				
P1247	Turbocharger Boost Pressure Low						D*	d										

OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel				
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOER	Continuous	KOER	Continuous	KOER									Continuous	KOER	Continuous
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P1248	Turbocharger Boost Pressure Not Detected					D*	d	M										
P1249	Wastegate Control Valve Performance					D*												
P1250	Fuel Pressure Regulator Control Solenoid							M						D*				FPR
P1251	Air Mixture Solenoid Circuit							M										
P1252	Pedal Correlation PDS1 and LPDS High					D												
P1253	Pedal Correlation PDS1 and LPDS Low					D												
P1254	Pedal Correlation PDS2 and LPDS High					D												
P1255	Pedal Correlation PDS2 and LPDS Low					D												
P1256	Pedal Correlation PDS1 and HPDS					D												
P1257	Pedal Correlation PDS2 and HPDS					D												
P1258	Pedal Correlation PDS1 and PDS2					D												
P1259	Immobilizer to PCM Signal Error											E		D	U			
P1260	Theft Detected, Vehicle Immobilized	G				D		M	J			E		D	U			
P1261	Cylinder #1 High To Low Side Short	G*	g	g		D	d											
P1262	Cylinder #2 High To Low Side Short	G*	g	g		D	d											
P1263	Cylinder #3 High To Low Side Short	G*	g	g		D	d											
P1264	Cylinder #4 High To Low Side Short	G*	g	g		D	d											
P1265	Cylinder #5 High To Low Side Short	G*	g	g		D	d											
P1266	Cylinder #6 High To Low Side Short	G*	g	g		D	d											
P1267	Cylinder #7 High To Low Side Short	G*	g	g		D	d											
P1268	Cylinder #8 High To Low Side Short	G*	g	g		D	d											
P1269	Immobilizer Code Not Programmed															U		
P1270	Engine RPM or Vehicle Speed Limiter Reached	G		T*				M				E		D				
P1271	Cylinder #1 High To Low Side Open	G*	g	g		D	d											
P1272	Cylinder #2 High To Low Side Open	G*	g	g		D	d											
P1273	Cylinder #3 High To Low Side Open	G*	g	g		D	d											
P1274	Cylinder #4 High To Low Side Open	G*	g	g		D	d											
P1275	Cylinder #5 High To Low Side Open	G*	g	g		D	d											
P1276	Cylinder #6 High To Low Side Open	G*	g	g		D	d											
P1277	Cylinder #7 High To Low Side Open	G*	g	g		D	d											
P1278	Cylinder #8 High To Low Side Open	G*	g	g		D	d											
P1279	Control Sleeve Sensor Circuit Range/Performance							M										
P127A	Aborted KOER - Fuel Pressure Failure						d											
P127B	Aborted Camshaft Position Timing KOER - Engine Oil Temperature Out of Range			g														
P127C																		
P127D																		
P127E																		
P127F																		
P1280	Injector Control Pressure Sensor Circuit Low					D*	d	d										ICP
P1281	Injector Control Pressure Sensor Circuit High					D*	d	d										ICP
P1282	Injector Control Pressure Higher Than Desired (engine running)					D*	d											ICP
P1283	Injector Pressure Regulator Control Circuit						d	d						D*				IPR
P1284	Aborted KOER - Injector Control Pressure Failure						d											
P1285	Cylinder Head Over Temperature Condition	G	g	g								E	e	e				CHT
P1286	Fuel Pulsewidth In Range But Lower Than Expected	G																
P1287	Fuel Pulsewidth In Range But Higher Than Expected	G																
P1288	Cylinder Head Temperature Sensor Out Of Self Test Range			g	g								e	e	D*			CHT
P1289	Cylinder Head Temperature Sensor Circuit High	G*	g	g								E*	e	e				CHT
P128A	Cylinder Head Temperature Sensor Circuit Intermittent/Erratic	G*																
P128B																		
P128C																		
P128D																		
P128E																		
P128F																		
P1290	Cylinder Head Temperature Sensor Circuit Low	G*	g	g								E*	e	e				CHT
P1291	Injector High Side Short To GND Or VBATT (Bank 1)					D	d											
P1292	Injector High Side Short To GND Or VBATT (Bank 2)					D	d											
P1293	Injector High Side Open (Bank 1)					D	d											
P1294	Injector High Side Open (Bank 2)					D	d											
P1295	Injector Multiple Faults (Bank 1)					D*	d							D				
P1296	Injector Multiple Faults (Bank 2)					D*	d							D				
P1297	Injector High Side Switches Shorted Together					D	d											

OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type			
		Spark Ignition PCM	Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition	Diesel	Spark Ignition								
	* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used	Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER											
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P1298	Injector Driver Module Failure																				
P1299	Cylinder Head Over Temperature Protection Active	G*		g																	CHT
P1300	Boost Calibration Fault																				
P1301	Boost Calibration High																				
P1302	Boost Calibration Low																				
P1303	Exhaust Gas Recirculation Calibration Fault																				
P1304	Exhaust Gas Recirculation Calibration High																				
P1305	Exhaust Gas Recirculation Calibration Low																				
P1306	Kickdown Relay Pull-in Circuit																				
P1307	Kickdown Relay Hold Circuit																				
P1308	A/C Clutch Circuit																				
P1309	Misfire Monitor Hardware - CMP Misaligned, CKP/CMP Noise, PCM AICE Chip	G*																			M*
P130A	Knock Sensor 3 Circuit	G*																			
P130B	Knock Sensor 4 Circuit	G*																			
P130C																					
P130D																					
P130E																					
P130F	Cylinder to Crankshaft Reference Synchronization																				E
P1310	Ionization Misfire Detection Module Fault	G*		g																	
P1311	Ionization Misfire Detection Module Communication Fault	G*		g																	
P1312	Injection Pump Timing Actuator Circuit																				M
P1313	Misfire Rate Catalyst Damage Fault (Bank 1)																				J*
P1314	Misfire Rate Catalyst Damage Fault (Bank 2)																				J*
P1315	Persistent Misfire																				J
P1316	Injector Driver Module Codes Detected																				D* d
P1317	Injector Circuit/Injector Driver Module Codes Not Retrieved																				D
P1318	Injection Timing Piston Position Sensor Circuit																				M
P1319	Injection Timing Piston Position Sensor Circuit Range/Performance																				M
P1320	Distributor Signal Interrupt																				
P1321	Cylinder #9 High To Low Side Short																				
P1322	Cylinder #10 High To Low Side Short																				
P1323	Cylinder #11 High To Low Side Short																				
P1324	Cylinder #12 High To Low Side Short																				
P1325	Cylinder #9 High To Low Side Open																				
P1326	Cylinder #10 High To Low Side Open																				
P1327	Cylinder #11 High To Low Side Open																				
P1328	Cylinder #12 High To Low Side Open																				
P1329	Injector Control Pressure Higher Than Desired (engine running)																				
P132A	Turbocharger/Supercharger Boost Control "A" Electrical																				D d d
P132B	Turbocharger/Supercharger Boost Control "A" Performance																				D* d d
P132C	Turbocharger/Supercharger Boost Control "A" Voltage																				D d d
P132D	Turbocharger/Supercharger Boost Control "B" Electrical																				
P132E	Turbocharger/Supercharger Boost Control "B" Performance																				
P132F	Turbocharger/Supercharger Boost Control "B" Voltage																				
P1330	Injector Control Pressure Lower Than Desired (engine running)																				
P1331	Turbocharger/Supercharger Boost High Side Control Circuit / Open																				D
P1332	Turbocharger/Supercharger Boost High Side Control Circuit Low																				
P1333	Turbocharger/Supercharger Boost High Side Control Circuit High																				
P1334	EGR Throttle Position Sensor Minimum/Maximum Stop Performance																				D* d
P1335	EGR Position Sensor "A" Minimum/Maximum Stop Performance																				D* d
P1336	Crankshaft/Camshaft Sensor Range/Performance	G*																			D* d
P1337	Throttle Position Output Circuit																				D
P1338	Fuel Pump Driver Module Communication Circuit (Fuel Pump Driver Module)																				J
P1339	Fuel Pump Driver Module Communication Circuit (Fuel Pump Driver Module)																				J
P1340	Camshaft Position Sensor "B" Circuit	G*																			J*
P1341	Camshaft Position Sensor "B" Circuit Range/Performance																				J*
P1342	Pedal Demand Sensor "A" Circuit Range/Performance																				D*
P1343	Pedal Demand Sensor "B" Circuit Range/Performance																				D*
P1344	Pedal Demand Sensor "C" Circuit Range/Performance																				D*
P1345	Cylinder Discrimination Signal (from CMP sensor)																				M
P1346	Fuel Level Sensor "B" Circuit																				U
P1347	Fuel Level Sensor "B" Circuit Range/Performance																				U

OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type	
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel		Spark Ignition			
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	Continuous	KOEO	Continuous	KOEO					Continuous	KOEO	KOER		Continuous	KOEO	KOER	
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P1348	Fuel Level Sensor "B" Circuit Low																		
P1349	Fuel Level Sensor "B" Circuit High																		
P1350	Fuel Level Sensor "B" Circuit Intermittent																		
P1351	Ignition Diagnostic Monitor Input Circuit	G*										F*							IDM
P1352	Ignition Coil "A" Primary Circuit	G*																	
P1353	Ignition Coil "B" Primary Circuit	G*																	
P1354	Ignition Coil "C" Primary Circuit	G*																	
P1355	Ignition Coil "D" Primary Circuit	G*																	
P1356	Ignition Diagnostic Monitor Indicates Engine Not Turning	G*																	IDM
P1357	Ignition Diagnostic Monitor Pulswidth Not Defined	G*																	IDM
P1358	Ignition Diagnostic Monitor Signal Out Of Self Test Range (no CPU OK)		g										e			U			IDM
P1359	Spark Output Circuit	G*										E*							SPOUT
P1360	Ignition Coil "A" Secondary Circuit	[G]																	
P1361	Ignition Coil "B" Secondary Circuit	[G]																	
P1362	Ignition Coil "C" Secondary Circuit	[G]																	
P1363	Ignition Coil "D" Secondary Circuit	[G]																	
P1364	Ignition Coil Primary Circuit	G*							M										
P1365	Ignition Coil Secondary Circuit	[G]																	
P1366	Ignition Spare	[G]																	
P1367	Ignition Spare	[G]																	
P1368	Ignition Spare	[G]																	
P1369	Engine Temperature Light Circuit	G											E						
P1370	Insufficient RPM Increase During Spark Test									J							U		
P1371	Cylinder 1 Ignition Coil - Early Activation Fault									J									
P1372	Cylinder 2 Ignition Coil - Early Activation Fault									J									
P1373	Cylinder 3 Ignition Coil - Early Activation Fault									J									
P1374	Cylinder 4 Ignition Coil - Early Activation Fault									J									
P1375	Cylinder 5 Ignition Coil - Early Activation Fault									J									
P1376	Cylinder 6 Ignition Coil - Early Activation Fault									J									
P1377	Injector Overvoltage Shut-down																		
P1378	Fuel Injector Control Module System Voltage Low						D	d	d										
P1379	Fuel Injector Control Module System Voltage High						D	d	d										
P1380	Camshaft Position Actuator Circuit (Bank 1)	G*	g	g								E				U			CPC-1
P1381	Camshaft Position Timing Over Advanced (Bank 1)	G*	g	g								E	e						CPC-1
P1382	Camshaft Position Timing Solenoid #1 Circuit								M										
P1383	Camshaft Position Timing Over Retarded (Bank 1)	G*	g	g								E	e						CPC-1
P1384	Variable Valve Timing Solenoid "A" Circuit								M	J*									
P1385	Camshaft Position Actuator Circuit (Bank 2)	G*	g	g															CPC-2
P1386	Camshaft Position Timing Over Advanced (Bank 2)	G*	g	g															CPC-2
P1387	Camshaft Position Timing Solenoid #2 Circuit								M										
P1388	Camshaft Position Timing Over Retarded (Bank 2)	G*	g	g															CPC-2
P1389	Glow Plug Circuit High Side, Low Input						D*												
P138A	Glow Plug Control Module Control Circuit Range/Performance																D		
P138B	Glow Plug Control Module System Voltage																D		
P138C	Charge Air Cooler Bypass Position Sensor Minimum/Maximum Stop Performance																		
P138D	Turbocharger/Supercharger Boost Control "A" Temperature Too High						D										D		
P138E	Turbocharger Boost Control Position Sensor "A" Minimum/Maximum Stop Performance																D		
P138F	Turbocharger Boost Control Position Sensor "B" Minimum/Maximum Stop Performance																D		
P1390	Octane Adjust Service Pin In Use/Circuit Open		g										e						OCTADJ
P1391	Glow Plug Circuit Low (Bank 1)						D*	d									D		
P1392	Glow Plug Circuit High (Bank 1)						D	d									D		
P1393	Glow Plug Circuit Low (Bank 2)						D*	d											
P1394	Glow Plug Circuit High (Bank 2)						D	d											
P1395	Glow Plug Monitor Fault (Bank 1)						D*	d									D		
P1396	Glow Plug Monitor Fault (Bank 2)						D*	d											
P1397	System Voltage Out Of Self Test Range		g	g				d											
P1398	Variable Valve Timing Solenoid "B" Circuit High									J*									
P1399	Glow Plug Circuit High Side, High Input						D*												
P1400	Differential Pressure Feedback EGR Circuit Low	G*	g	g							N	E*	e	e					DPFE
P1401	Differential Pressure Feedback EGR Circuit High	G*	g	g								E*	e	e					DPFE
P1402	Exhaust Gas Recirculation Metering Orifice Restricted	[G*]										E*			D				
P1403	Differential Pressure Feedback Sensor Hoses Reversed	G*																	DPFE

OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type					
		Spark Ignition PCM																					
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER					Continuous	KOEO	KOER	Continuous	KOEO	KOER			
Capital and small usage letters are used for visual impact only! Mazda, Nissan and Land Rover legacy DTCs are for reference. Ford P/T was not responsible for assigning these DTCs. Shading indicates change from previous version.																							A = Analog D = Digital F = Frequency I = Input O = Output
P1404	EGR Temperature Sensor Circuit	G*																					EGRT
P1405	Differential Pressure Feedback Sensor Upstream Hose Off Or Plugged	G*													E*								DPFE
P1406	Differential Pressure Feedback Sensor Downstream Hose Off Or Plugged	G*													E*								DPFE
P1407	Exhaust Gas Recirculation No Flow Detected	[G*]									M												
P1408	Exhaust Gas Recirculation Flow Out Of Self Test Range			g						d							e						
P1409	EGR Vacuum Regulator Solenoid Circuit	G*	g	g							M				E*	e	e						EVR
P140A	Exhaust Gas Recirculation Sensor "C" Circuit Low																						
P140B	Exhaust Gas Recirculation Sensor "C" Circuit High																						
P140C	Exhaust Gas Recirculation Control Circuit "B"																						
P140D	Exhaust Gas Recirculation Control Circuit "B" Range/Performance																						
P140E	EGR Position Sensor "C" Minimum/Maximum Stop Performance																						
P140F	EGR Throttle Stuck																						D
P1410	Air Cleaner Inlet Control Circuit	G	g	g							M	J											
P1411	Secondary Air Injection Incorrect Downstream Flow Detected	G*		g																			
P1412	Exhaust Gas Recirculation Valve Frozen							D*			M												D
P1413	Secondary Air Injection Monitor Circuit Low	G*	g	g											E*	e	e						
P1414	Secondary Air Injection Monitor Circuit High	G*	g	g											E*	e	e						
P1415	Air Pump Circuit										M												
P1416	Port Air Circuit										M												
P1417	Port Air Relief Circuit										M												
P1418	Split Air #1 Circuit										M												
P1419	Split Air #2 Circuit										M												
P141A	Exhaust Gas Recirculation Sensor "A" Circuit Intermittent/Erratic																						
P141B	Exhaust Gas Recirculation Sensor "B" Circuit Intermittent/Erratic																						
P141C	Exhaust Gas Recirculation Sensor "C" Circuit Intermittent/Erratic																						
P141D	EGR Position Sensor "B" Minimum/Maximum Stop Performance																						
P141E	Catalyst Temperature Sensor 1 / 2 Correlation (Bank 1)																						
P141F	Catalyst Temperature Sensor 1 / 2 Correlation (Bank 2)																						
P1420	Catalyst Temperature Sensor														E			D*					
P1421	Catalyst Damage														E								
P1422	Exhaust Gas Ignition Temperature Sensor														E*								
P1423	Exhaust Gas Ignition Functional Test														E*								
P1424	Exhaust Gas Ignition Plug Primary														E*								
P1425	Exhaust Gas Ignition Plug Secondary														E*								
P1426	Exhaust Gas Ignition mini-MAF Sensor Out of Range														E								
P1427	Exhaust Gas Ignition mini-MAF Sensor Circuit Shorted														E								
P1428	Exhaust Gas Ignition mini-MAF Sensor Circuit Open														E								
P1429	Electric Air Pump Primary														E*			D					
P142A	Conditions Incorrect for Secondary Air Self Test																						
P142B	Exhaust Gas Recirculation Sensor "D" Circuit																						
P142C	Exhaust Gas Recirculation Sensor "D" Range/Performance																						
P142D	Exhaust Gas Recirculation Sensor "D" Circuit Low																						
P142E	Exhaust Gas Recirculation Sensor "D" Circuit High																						
P142F	Exhaust Gas Recirculation Sensor "D" Circuit Intermittent/Erratic																						
P1430	Electric Air Pump Secondary														E*								
P1431	Misfire Monitor Disabled, unable to learn wheel profile	G*																					
P1432	Thermostat Heater Control Circuit	G*	g	g											E*	e	e						
P1433	A/C Refrigerant Temperature Circuit Low																						U
P1434	A/C Refrigerant Temperature Circuit High																						U
P1435	A/C Refrigerant Temperature Circuit Range/Performance																						U
P1436	A/C Evaporator Air Temperature Circuit Low	G	g	g																			U
P1437	A/C Evaporator Air Temperature Circuit High	G	g	g																			U
P1438	A/C Evaporator Air Temperature Circuit Range/Performance																						U
P1439	Floor Temp Switch Circuit										M												
P1440	Purge Valve Stuck Open											J											
P1441	ELC System 1											J											
P1442	Evaporative Emission System Control Leak Detected	G																					
P1443	Evaporative Emission System Control Valve (low/no flow)	G*																					
P1444	Evaporative Emission System Purge Flow Sensor Circuit Low	G*																					PFSNS
P1445	Evaporative Emission System Purge Flow Sensor Circuit High	G*																					PFSNS
P1446	Evaporative Vacuum Solenoid Circuit										M												
P1447	ELC System Closure Valve Flow											J											

OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel	Spark Ignition			
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER								
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P1448	ELC System 2																	
P1449	Evaporative Check Solenoid Circuit																	
P144A	Evaporative Emission System Purge Vapor Line Restricted/Blocked	G*																
P144B																		
P144C																		
P144D																		
P144E																		
P144F																		
P1450	Unable to Bleed Up Fuel Tank Vacuum	G*																
P1451	Evaporative Emission System Vent Control Circuit	G*	g	g														
P1452	Unable to Bleed Up Fuel Tank Vacuum	G																
P1453	Fuel Tank Pressure Relief Valve Malfunction																	
P1454	Evaporative Emission System Vacuum Test																	
P1455	Evaporative Emission System Control Leak Detected (gross leak/no flow)	G																
P1456	Fuel Tank Temperature Sensor Circuit																	
P1457	Unable To Pull Fuel Tank Vacuum	G																
P1458	Ignition Timing Control Solenoid																	
P1459	A/C Recirculation Switch Out of Self Test Range		g	g														
P145A	A/C Pressure Insufficient - A/C Clutch Disabled																	
P145B	A/C Demand Not Activated During Self Test																	
P145C	Fan System Component Error A																	
P145D	Fan System Component Error B																	
P145E	PCV Heater Control "B" Circuit	G																
P145F	Driver Door Switch Out of Self-Test Range																	
P1460	Wide Open Throttle A/C Cutout Circuit	G	g	g														
P1461	A/C Pressure Sensor Circuit High	G	g	g														
P1462	A/C Pressure Sensor Circuit Low	G	g	g														
P1463	A/C Pressure Sensor Insufficient Pressure Change	G																
P1464	A/C Demand Out Of Self Test Range		g	g														
P1465	A/C Relay Circuit	G																
P1466	A/C Refrigerant Temperature Sensor Circuit	G																
P1467	A/C Compressor Temperature Sensor																	
P1468	SSPOD Open Circuit or Closed Circuit																	
P1469	Rapid A/C Cycling	G																
P1470	A/C Cycling Period Too Short																	
P1471	Electrodrive Fan 1 Operational Failure (Driver side)																	
P1472	Electrodrive Fan 2 Operational Failure (Passenger side)																	
P1473	Fan Circuit Open (VLCM)		g															
P1474	Fan Control Primary Circuit	G	g	g														
P1475	Fan Relay (Low) Circuit																	
P1476	Fan Relay (High) Circuit																	
P1477	Additional Fan Relay Circuit	G	g	g														
P1478	Cooling Fan Driver																	
P1479	High Fan Control Primary Circuit	G	g	g														
P1480	Fan Secondary Low With Low Fan On	[G]	[g]															
P1481	Fan Secondary Low With High Fan On		[g]	[g]														
P1482	SCP	[G]																
P1483	Fan Circuit Shorted To Ground (VLCM)	G	g															
P1484	Fan Driver Circuit Open To Power Ground (VLCM)	G	g															
P1485	EGRV Circuit																	
P1486	EGRA Circuit																	
P1487	Exhaust Gas Recirculation Check Solenoid Circuit																	
P1488	Exhaust (muffler) Bypass Control Circuit	G	g	g														
P1489	PCV Heater Control Circuit	G	g	g														
P1490	Secondary Air Relief Solenoid Circuit																	
P1491	Secondary Switch Solenoid Circuit																	
P1492	APLSOL Solenoid Circuit																	
P1493	RCNT Solenoid Circuit																	
P1494	SPCUT Solenoid Circuit																	
P1495	TCSP Solenoid Circuit																	
P1496	EGR Stepper Motor 1 Control Circuit Low/High																	
P1497	EGR Stepper Motor 2 Control Circuit Low/High																	



OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type
		Spark Ignition PCM																
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P1498	EGR Stepper Motor 3 Control Circuit Low/High										M*							
P1499	EGR Stepper Motor 4 Control Circuit Low/High										M*							
P1500	Vehicle Speed Sensor	G									M		E					VSS
P1501	Vehicle Speed Sensor Out Of Self Test Range		g	g					d	d	M			e				VSS
P1502	Vehicle Speed Sensor Intermittent	G^						D^					E					VSS
P1503	Auxiliary Speed Sensor												E					
P1504	Idle Air Control Circuit	G*	g	g							M		E*	e	e			IAC
P1505	Idle Air Control System At Adaptive Clip	G*									M							IAC
P1506	Idle Air Control Overspeed Error	G*									M		E*					IAC
P1507	Idle Air Control Underspeed Error	G*									M		E*					IAC
P1508	Idle Air Control Circuit Open											J						
P1509	Idle Air Control Circuit Shorted											J						
P150A	Cylinder 1 Injector Circuit Range/Performance																	
P150B	Cylinder 2 Injector Circuit Range/Performance																	
P150C	Cylinder 3 Injector Circuit Range/Performance																	
P150D	Cylinder 4 Injector Circuit Range/Performance																	
P150E	Electronic Control Module Cooling Fan Circuit																	
P150F	Electronic Control Module Cooling Fan Performance																	
P1510	Idle Signal Circuit										M							
P1511	Idle Switch (Electric Control Throttle) Circuit										M							
P1512	Intake Manifold Runner Control Stuck Closed (Bank 1)	G									M							IMRC
P1513	Intake Manifold Runner Control Stuck Closed (Bank 2)	G																IMRC
P1514	High Load Neutral/Drive Fault											J						
P1515	Electric Current Circuit										M							
P1516	Intake Manifold Runner Control Input Error (Bank 1)	G*	g	g											D			IMRC
P1517	Intake Manifold Runner Control Input Error (Bank 2)	G*	g	g														IMRC
P1518	Intake Manifold Runner Control Stuck Open (Bank 1)	G*	g	g														IMRC
P1519	Intake Manifold Runner Control Stuck Closed (Bank 1)	G	g	g														IMRC
P151A	Intake Manifold Runner Controller Performance	G*	g	g														
P151B	Idle Speed Control - RPM Lower Than Expected																	
P151C	Idle Speed Control - RPM Higher Than Expected																	
P151D																		
P151E																		
P151F																		
P1520	Intake Manifold Runner Control Circuit	G*	g	g											D	U		IMRC
P1521	Variable Resonance Induction System Solenoid #1 Circuit										M							
P1522	Variable Resonance Induction System Solenoid #2 Circuit										M							
P1523	I/V Solenoid Circuit										M							
P1524	Variable Intake Solenoid Circuit										M							
P1525	Air Bypass Valve										M							
P1526	Air Bypass System										M							
P1527	Bypass Air Solenoid (Accelerate Warm-up) Circuit										M							
P1528	Subsidiary Throttle Valve Solenoid Circuit										M							
P1529	SCAIR Solenoid Circuit										M							
P1530	A/C Clutch Circuit Open (VLCM)	G	g	g														
P1531	Invalid Test - Accelerator Pedal Movement									d								
P1532	Intake Manifold Communication Control Circuit (Bank 2)	G	g															IMCC
P1533	Air Assisted Injector Circuit	G*																
P1534	Restraint Deployment Indicator Circuit	G	g	g								J						
P1535	Blower Fan Speed Circuit Range/Performance															U		
P1536	Parking Brake Switch Circuit									d								
P1537	Intake Manifold Runner Control Stuck Open (Bank 1)	G*	g	g														IMRC
P1538	Intake Manifold Runner Control Stuck Open (Bank 2)	G*	g	g														IMRC
P1539	A/C Clutch Circuit Overcurrent/Short (VLCM)	G	g															
P1540	Air Bypass Valve Circuit										M							
P1541	Intake Manifold Runner Control Circuit Range/Performance															D*		
P1542	Primary PCM ID Circuit (dual PCM application)	G*	g	g														
P1543	Engine Coolant Heater "A" Control Circuit															D		
P1544	Engine Coolant Heater "B" Control Circuit															D		
P1545	Exhaust Gas Recirculation High Side Control Circuit / Open																	
P1546	Exhaust Gas Recirculation High Side Control Circuit Low																	
P1547	Exhaust Gas Recirculation High Side Control Circuit High																	

OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type		
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda		Jaguar		Land Rover		Nissan		Spark Ignition			Diesel	
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	Continuous	KOEO	Continuous	KOEO							Continuous	KOEO	KOER	Continuous	KOEO	KOER	
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P1548	Engine Air Filter Restriction	G																		
P1549	Intake Manifold Communication Control Circuit (Bank 1)	G	g																	IMCC
P1550	Power Steering Pressure Sensor Out Of Self Test Range	G		g																PSP [AI]
P1551	Cylinder 1 Injector Circuit Range/Performance						D*	d	d											D
P1552	Cylinder 2 Injector Circuit Range/Performance						D*	d	d											D
P1553	Cylinder 3 Injector Circuit Range/Performance						D*	d	d											D
P1554	Cylinder 4 Injector Circuit Range/Performance						D*	d	d											D
P1555	Cylinder 5 Injector Circuit Range/Performance						D*	d	d											
P1556	Cylinder 6 Injector Circuit Range/Performance						D*	d	d											
P1557	Cylinder 7 Injector Circuit Range/Performance						D*	d	d											
P1558	Cylinder 8 Injector Circuit Range/Performance						D*	d	d											
P1559																				
P1560																				
P1561	Brake Line Pressure Sensor Circuit	G	g	g																
P1562	PCM B+ Voltage Low (KAM power)									M*										
P1563	Injection Pump Control Module Requesting Engine Stop																			D*
P1564	Injection Pump Control Module Requesting Reduced Fueling																			D*
P1565	Speed Control Command Switch Out Of Range High	G	g	g							J									
P1566	Speed Control Command Switch Out Of Range Low	G		g							J									
P1567	Speed Control Output Circuit	G									J									
P1568	Speed Control Unable to Hold Speed			g							J									
P1569	Intake Manifold Runner Control Circuit Low									M										
P1570	Intake Manifold Runner Control Circuit High									M										
P1571	Brake Switch										J									
P1572	Brake Pedal Switch Circuit	G												E						
P1573	Throttle Position Not Available	G*	g	g	T						J*									
P1574	Throttle Position Sensor Outputs Disagree	G	g	g																
P1575	Pedal Position Out Of Self Test Range			g	g															
P1576	Pedal Position Not Available	G*	g	g																D*
P1577	Pedal Position Sensor Outputs Disagree	G	g	g																D
P1578	ETC Power Less Than Demand	[G*]																		
P1579	ETC In Power Limiting Mode	[G*]																		
P1580	Electronic Throttle Monitor PCM Override	G*	g	g																ETM
P1581	Electronic Throttle Monitor Malfunction	G	g	g																ETM
P1582	Electronic Throttle Monitor Data Available	G	g	g							J									ETM
P1583	Electronic Throttle Monitor Cruise Disablement	G	g	g																ETM
P1584	Throttle Control Detected ETB Malfunction	G	g	g																TCU
P1585	Throttle Control Malfunction	G*	g	g																TCU
P1586	Electronic Throttle to PCM Communication Error	G*	g	g			D													
P1587	Throttle Control Modulated Command Malfunction	G*	g	g																TCU
P1588	Throttle Control Detected Loss Of Return Spring	G	g	g																TCU
P1589	Throttle Control Unable To Control To Desired Throttle Angle	G*	g	g																TCU
P1590	Cruise Control INCREASE DISTANCE Signal																			
P1591	Cruise Control DECREASE DISTANCE Signal																			
P1592	Vehicle Data Recorder Data Available										J									
P1593																				
P1594																				
P1595																				
P1596																				
P1597																				
P1598																				
P1599																				
P1600	Loss Of KAM Power, Circuit Open						D*		M	J*			E							
P1601	ECM/TCM Serial Communication Error									M*	J*									
P1602	Immobilizer/ECM Communication Error									M										D
P1603	EEPROM Malfunction	G									J*									D
P1604	Code Word Unregistered									M										
P1605	Keep Alive Memory Test Failure	[G]									J									
P1606	ECM Control Relay Output Circuit										J*									
P1607	MIL Output Circuit										J									
P1608	Watchdog Malfunction										J*									D*
P1609	Diagnostic Lamp Driver												E							D

OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type	
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel	Spark Ignition				
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOER	Continuous	KOER	Continuous	KOER					Continuous	KOER	KOER		Continuous	KOER	KOER	
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P1610	Interactive Reprogramming Code - replace module	[G]																	
P1611	Interactive Reprogramming Code - diagnose further	[G]																	
P1612	Interactive Reprogramming Code - repeat test - engine is cranking	[G]																	
P1613	Interactive Reprogramming Code - TBD	[G]																	
P1614	Interactive Reprogramming Code - TBD	[G]																	
P1615	Interactive Reprogramming Code - erase error	[G]																	
P1616	Interactive Reprogramming Code - erase error, low voltage	[G]																	
P1617	Interactive Reprogramming Code - block program error	[G]																	
P1618	Interactive Reprogramming Code - block program error, low voltage	[G]																	
P1619	Interactive Reprogramming Code - total checksum error	[G]																	
P1620	Interactive Reprogramming Code - overlay checksum error	[G]																	
P1621	Immobilizer Code Words Do Not Match																		
P1622	Immobilizer ID Does Not Match																		
P1623	Immobilizer Code Word/ID Number Write Failure																		
P1624	Anti-theft System																		
P1625	Fan Driver Circuit Open to Power B+ (VLCM)	G	g																
P1626	A/C Circuit Open to Power B+ (VLCM)	G	g																
P1627	Module Supply Voltage Out Of Range			T									E						
P1628	Module Ignition Supply Input												E		D				
P1629	Internal Voltage Regulator												E						
P162A	Sensor Reference Voltage "D" Circuit/Open																		
P162B	Sensor Reference Voltage "D" Circuit Low																		
P162C	Sensor Reference Voltage "D" Circuit High																		
P162D	Internal Control Module Cruise Control Performance																		
P162E	Internal Control Module PTO Control Performance																		
P162F																			
P1630	Internal Vref												E		D*				
P1631	Main Relay (power hold)												E		D				
P1632	Smart Alternator Faults Sensor / Circuit												E		D				
P1633	Keep Alive Power Voltage Too Low	G*	g	g				D*	d	d		E*							
P1634	Data Output Link Circuit							D*							D				
P1635	Tire/Axle Out of Acceptable Range	G*		T				D*	d	d				D					
P1636	Inductive Signature Chip Communication Error	G*						D*											
P1637	CAN Link ECM/ABS Control Module Circuit/Network										J*								
P1638	CAN Link ECM/INSTM Circuit/Network										J*								
P1639	Vehicle ID Block Corrupted, Not Programmed	G*						D*	d	d				D					
P163A	Generator "B" Control Circuit							D	d	d									
P163B	Generator "B" Field Terminal Circuit							D	d	d									
P163C	Generator "B" Field Terminal Circuit Low							D	d	d									
P163D	Generator "B" Field Terminal Circuit High							D	d	d									
P163E	Transmission Control Module Programming Error																		
P163F	Transmission ID Block Corrupted, Not Programmed																		
P1640	Powertrain DTCs Available In Another Control Module (Ref. PID 0946)	G*											E						
P1641	Fuel Pump Primary Circuit	[G]	[g]	[g]						J			E						
P1642	CAN Link Circuit	G*	g	g						J*									
P1643	CAN Link Engine Control Module/Transmission Control Module Circuit/Network	G*	g	g						J*			E		D				
P1644	Fuel Pump Speed Control Circuit	[G]																	
P1645	Fuel Pump Resistor Switch Circuit									M									
P1646	Linear O2 Sensor Control Chip (Bank 1)	G	g	g						J*									
P1647	Linear O2 Sensor Control Chip (Bank 2)	G	g	g						J*									
P1648	Knock Sensor Input Chip									J*									
P1649	Fuel Injection Pump Module									M									
P164A	O2 Sensor Positive Current Trim Circuit Performance (Bank 1 Sensor 1)	G	g	g															
P164B	O2 Sensor Positive Current Trim Circuit Performance (Bank 2 Sensor 1)	G	g	g															
P164C																			
P164D																			
P164E																			
P164F																			
P1650	Power Steering Pressure Switch Out Of Self Test Range		g	g						M			e	e	U				PSP [DI]
P1651	Power Steering Pressure Switch Input	G								M			E		U				PSP [DI]
P1652	Idle Air Control Monitor Disabled By PSPS Failed On									M									
P1653	Power Steering Output Circuit														U				[DO]

OBD-II Diagnostic Trouble Code Definitions		North America										Europe			Australia						
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Spark Ignition PCM		Standalone TCM				Diesel PCM				Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel		SAE J1930 Component/ System and I/O Type	
		Continuous	KOEO	Continuous	KOEO	Continuous	KOEO	Continuous	KOEO	Continuous	KOEO	Continuous	KOEO	Continuous	KOEO	Continuous	KOEO	Continuous	KOEO		
	Capital and small usage letters are used for visual impact only! Mazda, Nissan and Land Rover legacy DTCs are for reference. Ford P/T was not responsible for assigning these DTCs. Shading indicates change from previous version.																			A = Analog D = Digital F = Frequency I = Input O = Output	
P1654	Recirculation Override Circuit																			C	
P1655	Starter Disable Circuit																			C	[DO]
P1656	CAN Link PCM/PCM Circuit/Network	G*	g	g																	
P1657	CAN Link Chip Malfunction	G*	g	g	T																
P1658	Injection Pump Control Module System Voltage																			D	
P1659	Injection Pump Control Module Power Circuit																			D	
P165A																					
P165B																					
P165C																					
P165D																					
P165E																					
P165F																					
P1660	Output Circuit Check Circuit High									d											
P1661	Output Circuit Check Circuit Low									d											
P1662	EDU_EN Output Circuit									d											
P1663	Fuel Demand Command Signal Output Circuit									d											
P1664	Injection Pump Control Module Malfunction																			D	
P1665	Injection Pump Control Module Communications																			D	
P1666	Injection Pump Control Module/ECM Crank Reference Synchronization																			D	
P1667	Cylinder ID Circuit									d											
P1668	PCM/IDM Communications Error									d											
P1669	Injection Pump Control Module Monitoring ECM Fault																			D	
P1670	Electronic Feedback Signal Not Detected									D*											
P1671	Secondary Fuel Pump Relay																			J	
P1672	CAN Link ECM / Suspension Control Module Circuit/Network																			J	
P1673	ABS Lamp Control Circuit																				
P1674	Control Module Software Corrupted	G*																			
P1675	Injector Data Not Programmed																			D	
P1676	Injector Data Incompatible																			D	
P1677	Alternative Fuel Control Module Communication Circuit																			E	
P1678	Low Oil Pressure Lamp Control Circuit																				
P1679	Engine Oil Pressure Output Circuit																				
P167A	Alternative Fuel Control Module Communication Circuit Low																			E	
P167B	Fuel Injector Learning Not Done																				
P167C	CAN Link PCM/PCM Circuit/Network																				
P167D	Brake Switch "A" / "B" Signal Performance																				
P167E	Non-OEM Calibration Detected - Torque Above Max Limit																				
P167F	Non-OEM Calibration Detected									D											
P1680	Metering Oil Pump Failure																			M	
P1681	Metering Oil Pump Failure																			M	
P1682	Metering Oil Pump Failure																			M	
P1683	Metering Oil Pump Temperature Sensor Circuit																			M	
P1684	Metering Oil Pump Position Sensor Circuit																			M	
P1685	Metering Oil Pump Stepping Motor Cont. Circuit																			M	
P1686	Metering Oil Pump Stepping Motor Cont. Circuit																			M	
P1687	Metering Oil Pump Stepping Motor Cont. Circuit																			M	
P1688	Metering Oil Pump Stepping Motor Cont. Circuit																			M	
P1689	Oil Pressure Control Solenoid Circuit																			M	
P1690	Wastegate Solenoid Circuit									D*	d									M	
P1691	Turbocharger Pressure Control Solenoid Circuit																			M	
P1692	Turbocharger Control Solenoid Circuit																			M	
P1693	Turbocharger Charge Control Circuit																			M	
P1694	Turbocharger Charge Relief Circuit																			M	
P1695	CAN Link Injection Pump Control Module/Engine Control Module																			D	
P1696	CAN Link Engine Control Module/Cruise Control Module Circuit/Network																			J	
P1697	Cruise Control Distance-Control Input Circuit																			J	
P1698	Cold Start Fuel Pump Primary Circuit / Open	G	g	g																	
P1699	CAN Link ECM / Climate Control Module																			J	
P169A	Cold Start Fuel Pump Primary Circuit Low																				
P169B	Cold Start Fuel Pump Primary Circuit High																				
P169C	Cold Start Fuel Pump Secondary Circuit / Open																				
P169D	Cold Start Fuel Pump Secondary Circuit Low																				

OBD-II Diagnostic Trouble Code Definitions		North America						Europe						Australia		SAE J1930 Component/ System and I/O Type	
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Spark Ignition		Diesel		Spark Ignition					
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	Continuous	KOEO	Continuous	KOEO	Continuous	KOEO	Continuous	KOEO	Continuous	KOEO	Continuous	KOEO		
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P169E	Cold Start Fuel Pump Secondary Circuit High																
P169F	Control Module - Unused Fault Code																
P1700	Transmission Indeterminate Failure (Failed to Neutral)	G^A		T		D^A				J*							
P1701	Reverse Engagement Error	G		T		D											
P1702	Transmission Range Sensor Circuit Intermittent	G^A	g			D^A	d										
P1703	Brake Switch Out Of Self Test Range		g	g			d	d	M				e	e			
P1704	Transmission Range Circuit Not Indicating Park/Neutral During Self Test		g				d										
P1705	Transmission Range Circuit Not Indicating Park/Neutral During Self Test		g	g			d	d	M				e			U	
P1706	High Vehicle Speed Observed in Park					D^A			M								
P1707	Transfer Case Neutral or Park/Neutral Indication Circuit	G	g	g	T	[D]											
P1708	Clutch Switch Circuit								M								
P1709	Park Neutral Position Switch Out Of Self Test Range		g				d		M				e				
P170A	Clutch Switch Out Of Self Test Range																
P170B	Clutch Adaptive Learning Not Done - Incorrect Engine Conditions																
P170C	Clutch "A" Engagement Time Performance				T*												
P170D	Clutch "B" Engagement Time Performance				T*												
P170E	Clutch Delivered Torque Performance				T												
P170F	Clutch Pressure Release Valve Failed				T												
P1710	Transmission Control Module Solenoid/Internal Ground Circuit	G	g	g	T*				M	J							
P1711	Transmission Fluid Temperature Sensor Out Of Self Test Range		g	g			d	d									
P1712	Transmission Torque Reduction Request Signal	G											E			U	
P1713	Transmission Fluid Temperature Sensor In Range Failure (< 50 deg F)	G^A				D^A			M								
P1714	Shift Solenoid "A" Inductive Signature	G*				D*											
P1715	Shift Solenoid "B" Inductive Signature	G*				D*											
P1716	Shift Solenoid "C" Inductive Signature	G*				D*											
P1717	Shift Solenoid "D" Inductive Signature	G*															
P1718	Transmission Fluid Temperature Sensor In Range Failure (> 250 deg F)	G^A				D^A											
P1719	Engine Torque Signal				T*				M							D	
P171A	Shift Fork "A" Stuck, Movement on Shift Fork "B"				T*												
P171B	Shift Fork "A" Stuck, Movement on Shift Fork C				T*												
P171C	Shift Fork "B" Stuck, Movement on Shift Fork "A"				T*												
P171D	Shift Fork "B" Stuck, Movement on Shift Fork D				T*												
P171E	Shift Fork "C" Stuck, Movement on Shift Fork "A"				T*												
P171F	Shift Fork "C" Stuck, Movement on Shift Fork D				T*												
P1720	Vehicle Speed (Meter) Circuit								M	J*							
P1721	Gear 1 Incorrect Ratio								M								
P1722	Gear 2 Incorrect Ratio								M								
P1723	Gear 3 Incorrect Ratio								M								
P1724	Gear 4 Incorrect Ratio								M								
P1725	Insufficient Engine Speed Increase During Self Test							d									
P1726	Insufficient Engine Speed Decrease During Self Test							d									
P1727	Coast Clutch Solenoid Inductive Signature	G^A				D											
P1728	Transmission Slip	G^A				D											
P1729	4x4L Switch	G^A				D^A											
P172A	Shift Fork "D" Stuck, Movement on Shift Fork "B"				T*												
P172B	Shift Fork "D" Stuck, Movement on Shift Fork C				T*												
P172C	Shift Fork "A" /B Direction Control Valve Stuck On				T*												
P172D	Shift Fork "A" /B Direction Control Valve Stuck Off				T*												
P172E	Shift Fork C/D Direction Control Valve Stuck On				T*												
P172F	Shift Fork C/D Direction Control Valve Stuck Off				T*												
P1730	Gear Control Malfunction 2,3,5									J*							
P1731	1-2 Shift Malfunction	G				D											
P1732	2-3 Shift Malfunction	G				D											
P1733	3-4 Shift Malfunction	G				D											
P1734	4-5 Shift Malfunction																
P1735	First Gear Switch Circuit Failure								M								
P1736	Second Gear Switch Circuit Failure								M								
P1737	Lockup Solenoid								M								
P1738	Shift Time Error								M								
P1739	Slip Solenoid								M								
P173A	Clutch Actuator Position Sensor Circuit Range/Performance																
P173B	Clutch Actuator Position Sensor Circuit Low																

OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type					
		Spark Ignition PCM																					
		Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER					Continuous	KOEO	KOER	Continuous	KOEO	KOER			
	* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used																						
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P173C	Clutch Actuator Position Sensor Circuit High																						
P173D	Ignition Key Lock Solenoid Circuit / Open																						
P173E	Ignition Key Lock Solenoid Circuit Low																						
P173F	Ignition Key Lock Solenoid Circuit High																						
P1740	Torque Converter Clutch Solenoid Inductive Signature	G*						D*															
P1741	Torque Converter Clutch Solenoid Control Error	G						D			M												
P1742	Torque Converter Clutch Solenoid Circuit Failed On	G*						D															
P1743	Torque Converter Clutch Solenoid Circuit Failed On	G^																					
P1744	Torque Converter Clutch Solenoid Circuit Performance	G*^						D^															
P1745	Line Pressure Solenoid										M												
P1746	Pressure Control Solenoid "A" Open Circuit	G^	g					D^	d		M												
P1747	Pressure Control Solenoid "A" Short Circuit	G*^	g					D*	d		M												
P1748	Pressure Control Solenoid "A"							D^			M												
P1749	Pressure Control Solenoid "A" Failed Low	G																					
P174A	Gear Lever X Position Sensor Circuit Low																						
P174B	Gear Lever X Position Sensor Circuit High																						
P174C	Gear Lever Y Position Sensor Circuit Low																						
P174D	Gear Lever Y Position Sensor Circuit High																						
P174E	Output Shaft Speed / ABS Wheel Speed Correlation	[G]						D															
P174F	Traction Control Enable/Disable Switch Lamp Circuit							D															
P1750	Clutch Adaptive Learning Not Done																						
P1751	Shift Solenoid "A" Performance	G^						D															
P1752	Shift Solenoid "A" Circuit Short										M												
P1753																							
P1754	Coast Clutch Solenoid Circuit	G^	g					D^	d														
P1755	CAN ECM/Park Brake Control Module Circuit Malfunction																						
P1756	Shift Solenoid "B" Performance	G^						D^															
P1757	Shift Solenoid "B" Circuit Short										M												
P1758	Pressure Solenoid Control System Incorrect Current																						
P1759	2-4 Brake Failsafe Valve Malfunction										M												
P175A																							
P175B																							
P175C																							
P175D																							
P175E																							
P175F																							
P1760	Pressure Control Solenoid "A" Short Circuit Intermittent	G^	g					D^															
P1761	Shift Solenoid "C" Performance	G^																					
P1762	Overdrive Band Failed Off	G*																					
P1763	Low and Reverse Brake Pressure Switch Circuit										M												
P1764	Low and Reverse Brake Failsafe Valve Malfunction										M												
P1765	Timing Solenoid Circuit										M				E								
P1766	Shift Solenoid "D" Performance	G^																					
P1767	Torque Converter Clutch Circuit	G^																					
P1768	Performance/Normal/Winter Mode Input	G	g																				
P1769	AG4 Transmission Torque Modulation Fault (VW trans)														E								
P176A	Transmission Range Selector Up and Down Position Circuit																						
P176B	Transmission Range Selector Up and Down Position Control Error																						
P176C	Transmission Range Selector Lock Control Error																						
P176D	Transmission Range Selector Incorrect Position At Key On																						
P176E																							
P176F																							
P1770	Clutch Solenoid Circuit	G									M												
P1771	Throttle Position Sensor Circuit High																						
P1772	Throttle Position Sensor Circuit Low																						
P1773	CAN Link PCM/Fuel Fired Heater Malfunction							D															
P1774	CAN Link Gear Shift Module / TCM																						
P1775	Transmission System MIL Fault																						
P1776	Ignition Retard Request Duration																						
P1777	Ignition Retard Request Circuit																						
P1778	Transmission Reverse I/P Circuit																						
P1779	Transmission Control Indicator Light Circuit	G	g					D															

OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type					
		Spark Ignition PCM																					
	* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used	Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER					Continuous	KOEO	KOER	Continuous	KOEO	KOER			
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P177A																							
P177B																							
P177C																							
P177D																							
P177E																							
P177F																							
P1780	Transmission Control Switch (O/D Cancel) Circuit Out Of Self Test Range				g					d	M												
P1781	4X4L Circuit Out Of Self Test Range				g					d													
P1782	Performance/Economy Switch Circuit Out Of Self Test Range				g																		
P1783	Transmission Overtemperature Condition	G^						D^			M	J*	L										
P1784	Transmission Mechanical Failure - First And Reverse	G																					
P1785	Transmission Mechanical Failure - First And Second	G																					
P1786	3-2 Downshift Error	G																					
P1787	2-1 Downshift Error	G																					
P1788	Pressure Control Solenoid "B" Open Circuit	G^	g								M												
P1789	Pressure Control Solenoid "B" Short Circuit	G^	g								M												
P178A																							
P178B																							
P178C																							
P178D																							
P178E																							
P178F																							
P1790	TP (Mechanical) Circuit										M												
P1791	TP (Electric) Circuit										M												
P1792	Barometer Pressure Circuit										M			E									
P1793	Ignition Supply Malfunction >16, <7 volts											J*											
P1794	Battery Voltage Circuit										M	J*		E						D			
P1795	Inconsistent CAN Level	G*	g	g								J*											
P1796	CAN Controller Circuit (Bus off)											J*											
P1797	CAN TCM/ECM Circuit Malfunction											J*											
P1798	CAN TCM/INST Circuit Malfunction											J											
P1799	CAN TCM/ABS Circuit Malfunction											J											
P179A	CAN ECM/Turbocharger Boost Control "A" Actuator Circuit Malfunction							D*	d												D		
P179B	CAN ECM/Turbocharger Boost Control "A" Actuator - Invalid Data Received							D*	d														
P179C																							
P179D																							
P179E																							
P179F																							
	4x4																						
P1800	Transmission Clutch Interlock Safety Switch Circuit Failure	G	g	g																			
P1801	Transmission Clutch Interlock Safety Switch Open Circuit	G	g	g																			
P1802	Transmission Clutch Interlock Safety Switch Short Circuit To Battery	G	g	g																			
P1803	Transmission Clutch Interlock Safety Switch Short Circuit To Ground	G	g	g																			
P1804	4-Wheel Drive High Indicator Circuit Failure	G	g	g																			
P1805	4-Wheel Drive High Indicator Open Circuit	G	g	g																			
P1806	4-Wheel Drive High Indicator Short Circuit To Battery	G	g	g																			
P1807	4-Wheel Drive High Indicator Short Circuit To Ground	G	g	g																			
P1808	4-Wheel Drive Low Indicator Circuit Failure	G	g	g																			
P1809	4-Wheel Drive Low Indicator Open Circuit	G	g	g																			
P180A																							
P180B																							
P180C																							
P180D																							
P180E																							
P180F																							
P1810	4-Wheel Drive Low Indicator Short Circuit To Battery	G	g	g																			
P1811	4-Wheel Drive Low Indicator Short Circuit To Ground	G	g	g																			
P1812	4-Wheel Drive Mode Select Circuit Failure	G	g	g																			
P1813	4-Wheel Drive Mode Select Open Circuit	G	g	g																			
P1814	4-Wheel Drive Mode Select Short Circuit To Battery	G	g	g																			
P1815	4-Wheel Drive Mode Select Short Circuit To Ground	G	g	g																			
P1816	Transmission Neutral Safety Switch Circuit Failure	G	g	g																			





OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type			
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda		Jaguar		Land Rover		Nissan		Spark Ignition			Diesel		
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER					Continuous	KOEO	KOER	Continuous	KOEO	KOER	
	Capital and small usage letters are used for visual impact only! Mazda, Nissan and Land Rover legacy DTCs are for reference. Ford P/T was not responsible for assigning these DTCs. Shading indicates change from previous version.																				A = Analog D = Digital F = Frequency I = Input O = Output
P1855	Transfer Case Contact Plate 'C' Open Circuit	G	g	g																	
P1856	Transfer Case Contact Plate 'C' Short Circuit To Battery	G	g	g																	
P1857	Transfer Case Contact Plate 'C' Short Circuit To Ground	G	g	g																	
P1858	Transfer Case Contact Plate 'D' Circuit Failure	G	g	g																	
P1859	Transfer Case Contact Plate 'D' Open Circuit	G	g	g																	
P185A																					
P185B																					
P185C																					
P185D																					
P185E																					
P185F																					
P1860	Transfer Case Contact Plate 'D' Short Circuit To Battery	G	g	g																	
P1861	Transfer Case Contact Plate 'D' Short Circuit To Ground	G	g	g																	
P1862	Transfer Case Contact Plate Power Circuit Failure	G	g	g																	
P1863	Transfer Case Contact Plate Power Open Circuit	G	g	g																	
P1864	Transfer Case Contact Plate Power Short To Battery	G	g	g																	
P1865	Transfer Case Contact Plate Power Short To Ground	G	g	g																	
P1866	Transfer Case System Concern - Servicing Required	G	g	g																	
P1867	Transfer Case Contact Plate General Circuit Failure	G	g	g																	
P1868	4-Wheel Drive Indicator (Lamp) Circuit Failure	G	g	g																	
P1869	4-Wheel Drive Indicator (Lamp) Circuit Short To Battery	G	g	g																	
P186A	Differential Lock-up Actuator Brake Control Circuit / Open																				
P186B	Differential Lock-up Actuator Brake Control Circuit Low																				
P186C	Differential Lock-up Actuator Brake Control Circuit High																				
P186D	Clutch Actuator Stuck					T*															
P186E																					
P186F																					
P1870	Mechanical Transfer Case 4x4 Switch Circuit Failure	G	g	g																	
P1871	Mechanical Transfer Case 4x4 Switch Circuit Short To Battery	G	g	g																	
P1872	Mechanical 4-Wheel Drive Axle Lock Lamp Circuit Failure	G	g	g																	
P1873	Mechanical 4-Wheel Drive Axle Lock Lamp Circuit Short To Battery	G	g	g																	
P1874	Transfer Case Hall Effect Sensor Power Circuit Failure	G	g	g																	
P1875	Transfer Case Hall Effect Sensor Power Circuit Short To Battery	G	g	g																	
P1876	Transfer Case 2-Wheel Drive Solenoid Circuit Failure	G	g	g																	
P1877	Transfer Case 2-Wheel Drive Solenoid Circuit Short To Battery	G	g	g																	
P1878	Transfer Case Disengaged Solenoid Circuit Failure	G	g	g																	
P1879	Transfer Case Disengaged Solenoid Open Circuit	G	g	g																	
P187A																					
P187B																					
P187C																					
P187D																					
P187E																					
P187F																					
P1880	Transfer Case Disengaged Solenoid Short to Battery	G	g	g																	
P1881	Engine Coolant Level Switch Circuit	G	g	g																	
P1882	Engine Coolant Level Switch Circuit Short To Ground	G									J										
P1883	Engine Coolant Level Switch Circuit	G																			
P1884	Engine Coolant Level Lamp Circuit Short To Ground	G																			
P1885	Transfer Case Disengaged Solenoid Short to Ground	G	g	g																	
P1886	4X4 Initialization Failure	G	g	g																	
P1887	4-Wheel Drive Control Solenoid Circuit Failure									M											
P1888	Differential Oil Temperature Sensor Circuit Failure									M											
P1889	Oil Pressure Pump Performance	G	g																		
P188A	Differential Oil Temperature Too High/Too Low																				
P188B	All Wheel Drive Clutch Control Circuit																				
P188C	All Wheel Drive Relay Module Communication Circuit																				
P188D	All Wheel Drive Relay Module Feedback Circuit																				
P188E																					
P188F	Transfer Case Contact Plate Ground Return Short to Battery																				
P1890	4-Wheel Drive Mode Select Return Input Circuit Failure	G	g	g																	
P1891	Transfer Case Contact Plate Ground Return Open Circuit	G	g	g																	
P1892	Axle Disconnect Engagement Solenoid Circuit High																				

OBD-II Diagnostic Trouble Code Definitions		North America										Europe			Australia		SAE J1930 Component/ System and I/O Type			
		Spark Ignition PCM																		
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER										
	Capital and small usage letters are used for visual impact only! Mazda, Nissan and Land Rover legacy DTCs are for reference. Ford P/T was not responsible for assigning these DTCs. Shading indicates change from previous version.																			
P1893	Axle Disconnect Engagement Solenoid Circuit Low																			
P1894	Axle Disconnect Disengagement Solenoid Circuit High																			
P1895	Axle Disconnect Disengagement Solenoid Circuit Low																			
P1896	Axle Disconnect Engagement Position Sensor Circuit High																			
P1897	Axle Disconnect Engagement Position Sensor Circuit Low																			
P1898	Axle Disconnect Indicator Circuit High																			
P1899	Axle Disconnect Indicator Circuit Low																			
P189A	Axle Disconnect Input Switch Circuit Low																			
P189B	Axle Disconnect Input Switch Circuit High																			
P189C																				
P189D																				
P189E																				
P189F																				
C1160	Center Axle Disconnect (CAD) System General Failure	G	g	g																
C1728	Transfer Case Unable To Transition Between 2H and 4H	G	g	g																
C1729	Transfer Case Unable To Transition Between 4H and 4L	G	g	g																
C1970	4X4 Low Mode Switch LED Short To Battery	G	g	g																
C1971	4X4 Low Mode Switch LED Circuit Failure	G	g	g																
C1979	IWE Solenoid Circuit Failure	G	g	g																
C1980	IWE Solenoid Short To Battery	G	g	g																
Transmission																				
P1900	Output Shaft Speed Sensor Circuit Intermittent	G																		
P1901	Turbine Shaft Speed Sensor Circuit Intermittent	G																		
P1902	Kickdown Solenoid Relay Control Circuit							D	d	d										
P1903	Kickdown Solenoid Circuit Low Voltage							D	d	d										
P1904	Kickdown Solenoid Circuit High Voltage							D	d	d										
P1905	Control Module Configured for End-of-Line Test Mode				T								E							
P1906	Kickdown Pull Relay Open Or Short Circuit To Ground (A4LD)												E							
P1907	Kickdown Hold Relay Open Or Short Circuit To Ground (A4LD)												E							
P1908	Transmission Pressure Control Solenoid Open Or Short (A4LD)												E							
P1909	Transmission Fluid Temperature Sensor Circuit Open Or Short (A4LD)												E							
P1910	Reverse Lamp Control Circuit / Open				T			D	d											
P1911	Reverse Lamp Control Circuit Low				T															
P1912	Reverse Lamp Control Circuit High				T															
P1913	Sensor Ground Reference "A" Circuit/Open																			
P1914	Sensor Ground Reference "A" Circuit Low																			
P1915	Sensor Ground Reference "A" Circuit High																			
P1916	Sensor Ground Reference "B" Circuit/Open																			
P1917	Sensor Ground Reference "B" Circuit Low																			
P1918	Sensor Ground Reference "B" Circuit High																			
P1919	Engine Coolant Temperature Signal				T															
P1920	Engine Speed Signal				T															
P1921	Transmission Range Signal				T															
P1922	Fuel Additive Level Circuit												E							
P1923	Fuel Additive Level Circuit Range/Performance												E							
P1924	Fuel Additive Level Circuit Low																			
P1925	Fuel Additive Level Circuit High																			
P1926	Fuel Additive Level Circuit Intermittent/Erratic																			
P1927	Fuel Additive Level Too Low/Empty												E*							
P1928	Fuel Additive Pump Control Circuit / Open												E							
P1929	Fuel Additive Pump Control Circuit Performance																			
P1930	Fuel Additive Pump Control Circuit Low												E							
P1931	Fuel Additive Pump Control Circuit High												E							
P1932	Fuel Additive Level Low												E							
P1933	Fuel Level Signal																			
P1934	Vehicle Speed Signal					T											D			
P1935	Brake Switch/Sensor Signal	G	g	g												D				
P1936	Clutch Switch/Sensor Signal																			
P1937	Fuel Fired Heater Control Circuit / Open																			
P1938	Fuel Fired Heater Control Circuit Low																			
P1939	Fuel Fired Heater Control Circuit High																			
P193A	Invalid Scan Tool Communication/Request																			



OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel	Spark Ignition			
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER								
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P200D	Diesel Particulate Filter Over Temperature (Bank 2)																	
P200E	Catalyst System Over Temperature (Bank 1)																	
P200F	Catalyst System Over Temperature (Bank 2)																	
P2010	Intake Manifold Runner Control Circuit High (Bank 1)								M*				F					
P2011	Intake Manifold Runner Position Sensor / Open (Bank 2)																	
P2012	Intake Manifold Runner Control Circuit Low (Bank 2)																	
P2013	Intake Manifold Runner Control Circuit High (Bank 2)																	
P2014	Intake Manifold Runner Position Sensor/Switch Circuit (Bank 1)	G*	g	g														
P2015	Intake Manifold Runner Position Sensor/Switch Circuit Range/Perf. (Bank 1)	G*																
P2016	Intake Manifold Runner Position Sensor/Switch Circuit Low (Bank 1)								M*									
P2017	Intake Manifold Runner Position Sensor/Switch Circuit High (Bank 1)								M*									
P2018	Intake Manifold Runner Position Sensor/Switch Circuit Intermittent (Bank 1)																	
P2019	Intake Manifold Runner Position Sensor/Switch Circuit (Bank 2)	G*	g	g														
P201A	Reductant Injection Valve Circuit Range/Performance (Bank 2 Unit 1)																	
P201B																		
P201C																		
P201D																		
P201E																		
P201F																		
P2020	Intake Manifold Runner Position Sensor/Switch Circuit Range/Perf. (Bank 2)	G*																
P2021	Intake Manifold Runner Position Sensor/Switch Circuit Low (Bank 2)																	
P2022	Intake Manifold Runner Position Sensor/Switch Circuit High (Bank 2)																	
P2023	Intake Manifold Runner Position Sensor/Switch Circuit Intermittent (Bank 2)																	
P2024	Evaporative Emissions Fuel Vapor Temperature Sensor Circuit																	
P2025	Evaporative Emissions Fuel Vapor Temperature Sensor Circuit Performance																	
P2026	Evaporative Emissions Fuel Vapor Temperature Sensor Circuit Low Voltage																	
P2027	Evaporative Emissions Fuel Vapor Temperature Sensor Circuit High Voltage																	
P2028	Evaporative Emissions Fuel Vapor Temperature Sensor Circuit Intermittent																	
P2029	Fuel Fired Heater Disabled							D	d	d								
P202A	Reductant Tank Heater Control Circuit / Open																	
P202B	Reductant Tank Heater Control Circuit Low																	
P202C	Reductant Tank Heater Control Circuit High																	
P202D	Reductant Leakage																	
P202E	Reductant Injection Valve Circuit Range/Performance (Bank 1 Unit 1)																	
P202F	Reductant/Regeneration Supply Control Circuit Range/Performance																	
P2030	Fuel Fired Heater Performance							D	d	d								
P2031	Exhaust Gas Temperature Sensor Circuit (Bank 1 Sensor 2)							D*										
P2032	Exhaust Gas Temperature Sensor Circuit Low (Bank 1 Sensor 2)							D*										
P2033	Exhaust Gas Temperature Sensor Circuit High (Bank 1 Sensor 2)							D*										
P2034	Exhaust Gas Temperature Sensor Circuit (Bank 2 Sensor 2)																	
P2035	Exhaust Gas Temperature Sensor Circuit Low (Bank 2 Sensor 2)																	
P2036	Exhaust Gas Temperature Sensor Circuit High (Bank 2 Sensor 2)																	
P2037	Reductant Injection Air Pressure Sensor "A" Circuit																D	
P2038	Reductant Injection Air Pressure Sensor "A" Circuit Range/Performance																	
P2039	Reductant Injection Air Pressure Sensor "A" Circuit Low																	
P203A	Reductant Level Sensor Circuit																	
P203B	Reductant Level Sensor Circuit Range/Performance																	
P203C	Reductant Level Sensor Circuit Low																	
P203D	Reductant Level Sensor Circuit High																	
P203E	Reductant Level Sensor Circuit Intermittent/Erratic																	
P203F	Reductant Level Too Low																	
P2040	Reductant Injection Air Pressure Sensor "A" Circuit High																	
P2041	Reductant Injection Air Pressure Sensor "A" Circuit Intermittent																	
P2042	Reductant Temperature Sensor Circuit																	
P2043	Reductant Temperature Sensor Circuit Range/Performance																	
P2044	Reductant Temperature Sensor Circuit Low																	
P2045	Reductant Temperature Sensor Circuit High																	
P2046	Reductant Temperature Sensor Circuit Intermittent																	
P2047	Reductant Injection Valve Circuit / Open (Bank 1 Unit 1)																D	
P2048	Reductant Injection Valve Circuit Low (Bank 1 Unit 1)																	
P2049	Reductant Injection Valve Circuit High (Bank 1 Unit 1)																	
P204A	Reductant Pressure Sensor Circuit																	

OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type						
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel	Spark Ignition									
	* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used	Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER					Continuous	KOEO	KOER		Continuous	KOEO	KOER			
	Capital and small usage letters are used for visual impact only! Mazda, Nissan and Land Rover legacy DTCs are for reference. Ford P/T was not responsible for assigning these DTCs. Shading indicates change from previous version.																							A = Analog D = Digital F = Frequency I = Input O = Output
P204B	Reductant Pressure Sensor Circuit Range/Performance																							
P204C	Reductant Pressure Sensor Circuit Low																							
P204D	Reductant Pressure Sensor Circuit High																							
P204E	Reductant Pressure Sensor Circuit Intermittent/Erratic																							
P204F	Reductant System Performance (Bank 1)																							
P2050	Reductant Injection Valve Circuit / Open (Bank 2 Unit 1)																							
P2051	Reductant Injection Valve Circuit Low (Bank 2 Unit 1)																							
P2052	Reductant Injection Valve Circuit High (Bank 2 Unit 1)																							
P2053	Reductant Injection Valve Circuit / Open (Bank 1 Unit 2)																							D
P2054	Reductant Injection Valve Circuit Low (Bank 1 Unit 2)																							
P2055	Reductant Injection Valve Circuit High (Bank 1 Unit 2)																							
P2056	Reductant Injection Valve Circuit / Open (Bank 2 Unit 2)																							
P2057	Reductant Injection Valve Circuit Low (Bank 2 Unit 2)																							
P2058	Reductant Injection Valve Circuit High (Bank 2 Unit 2)																							
P2059	Reductant Injection Air Pump Control Circuit / Open																							
P205A	Reductant Tank Temperature Sensor Circuit																							
P205B	Reductant Tank Temperature Sensor Circuit Range/Performance																							
P205C	Reductant Tank Temperature Sensor Circuit Low																							
P205D	Reductant Tank Temperature Sensor Circuit High																							
P205E	Reductant Tank Temperature Sensor Circuit Intermittent/Erratic																							
P205F	Reductant System Performance (Bank 2)																							
P2060	Reductant Injection Air Pump Control Circuit Low																							
P2061	Reductant Injection Air Pump Control Circuit High																							
P2062	Reductant/Regeneration Supply Control Circuit / Open																							
P2063	Reductant/Regeneration Supply Control Circuit Low																							
P2064	Reductant/Regeneration Supply Control Circuit High																							
P2065	Fuel Level Sensor "B" Circuit	G*	g	g																				
P2066	Fuel Level Sensor "B" Circuit Range/Performance	G*	g	g																				
P2067	Fuel Level Sensor "B" Circuit Low	G*	g	g				D	d	d														
P2068	Fuel Level Sensor "B" Circuit High	G*	g	g				D	d	d														
P2069	Fuel Level Sensor "B" Circuit Intermittent																							
P206A	Reductant Quality Sensor																							
P206B	Reductant Quality Sensor Range/Performance																							
P206C	Reductant Quality Sensor Low																							
P206D	Reductant Quality Sensor High																							
P206E	Intake Manifold Tuning Valve Stuck Open (Bank 2)																							
P206F	Intake Manifold Tuning Valve Stuck Closed (Bank 2)																							
P2070	Intake Manifold Tuning Valve Stuck Open (Bank 1)	G	g																					IMTV
P2071	Intake Manifold Tuning Valve Stuck Closed (Bank 1)	G	g																					IMTV
P2072	Throttle Actuator Control System - Ice Blockage	G																						IMTV
P2073	Manifold Absolute Pressure/Mass Air Flow - Throttle Position Correlation at Idle																							
P2074	Manifold Absolute Pressure/Mass Air Flow - Throttle Position Correlation at Higher Load																							
P2075	Intake Manifold Tuning Valve Position Sensor/Switch Circuit (Bank 1)																							
P2076	Intake Manifold Tuning Valve Position Sensor/Switch Circuit Range/Performance (Bank 1)																							
P2077	Intake Manifold Tuning Valve Position Sensor/Switch Circuit Low (Bank 1)	G	g	g																				
P2078	Intake Manifold Tuning Valve Position Sensor/Switch Circuit High (Bank 1)	G	g	g																				
P2079	Intake Manifold Tuning Valve Position Sensor/Switch Circuit Intermittent (Bank 1)																							
P207A	Intake Manifold Tuning Valve Position Sensor/Switch Circuit (Bank 2)																							
P207B	Intake Manifold Tuning Valve Position Sensor/Switch Circuit Range/Performance (Bank 2)																							
P207C	Intake Manifold Tuning Valve Position Sensor/Switch Circuit Low (Bank 2)																							
P207D	Intake Manifold Tuning Valve Position Sensor/Switch Circuit High (Bank 2)																							
P207E	Intake Manifold Tuning Valve Position Sensor/Switch Circuit Intermittent (Bank 2)																							
P207F	Reductant Quality Performance																							
P2080	Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 1 Sensor 1)																							D*
P2081	Exhaust Gas Temperature Sensor Circuit Intermittent (Bank 1 Sensor 1)																							D
P2082	Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 2 Sensor 1)																							D*
P2083	Exhaust Gas Temperature Sensor Circuit Intermittent (Bank 2 Sensor 1)																							D*
P2084	Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 1 Sensor 2)																							D*
P2085	Exhaust Gas Temperature Sensor Circuit Intermittent (Bank 1 Sensor 2)																							D
P2086	Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 2 Sensor 2)																							
P2087	Exhaust Gas Temperature Sensor Circuit Intermittent (Bank 2 Sensor 2)																							
P2088	"A" Camshaft Position Actuator Control Circuit Low (Bank 1)																							M*

OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type	
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel					
		Continuous	KOEO	Continuous	KOEO	Continuous	KOEO									Continuous	KOEO	KOER	Continuous
	* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used																		
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P2089	"A" Camshaft Position Actuator Control Circuit High (Bank 1)										M*								
P208A	Reductant Pump Control Circuit / Open																		
P208B	Reductant Pump Control Range/Performance																		
P208C	Reductant Pump Control Circuit Low																		
P208D	Reductant Pump Control Circuit High																		
P208E	Reductant Injection Valve Stuck Closed (Bank 1 Unit 1)																		
P208F	Reductant Injection Valve Stuck Closed (Bank 2 Unit 1)																		
P2090	"B" Camshaft Position Actuator Control Circuit Low (Bank 1)										M*								
P2091	"B" Camshaft Position Actuator Control Circuit High (Bank 1)										M*								
P2092	"A" Camshaft Position Actuator Control Circuit Low (Bank 2)										M*								
P2093	"A" Camshaft Position Actuator Control Circuit High (Bank 2)										M*								
P2094	"B" Camshaft Position Actuator Control Circuit Low (Bank 2)										M*								
P2095	"B" Camshaft Position Actuator Control Circuit High (Bank 2)										M*								
P2096	Post Catalyst Fuel Trim System Too Lean (Bank 1)		G*								M*								
P2097	Post Catalyst Fuel Trim System Too Rich (Bank 1)		G*								M*								
P2098	Post Catalyst Fuel Trim System Too Lean (Bank 2)		G*								M*								
P2099	Post Catalyst Fuel Trim System Too Rich (Bank 2)		G*								M*								
P209A	Reductant Injection Air Pressure Sensor "B" Circuit																		
P209B	Reductant Injection Air Pressure Sensor "B" Circuit Range/Performance																		
P209C	Reductant Injection Air Pressure Sensor "B" Circuit Low																		
P209D	Reductant Injection Air Pressure Sensor "B" Circuit High																		
P209E	Reductant Injection Air Pressure Sensor "A" / "B" Correlation																		
P209F	Reductant Tank Heater Control Performance																		
P20A0	Reductant Purge Control Valve Circuit / Open																		
P20A1	Reductant Purge Control Valve Performance																		
P20A2	Reductant Purge Control Valve Circuit Low																		
P20A3	Reductant Purge Control Valve Circuit High																		
P20A4	Reductant Purge Control Valve Stuck Open																		
P20A5	Reductant Purge Control Valve Stuck Closed																		
P20A6	Reductant Injection Air Pressure Control Valve Circuit / Open																		
P20A7	Reductant Injection Air Pressure Control Valve Performance																		
P20A8	Reductant Injection Air Pressure Control Valve Circuit Low																		
P20A9	Reductant Injection Air Pressure Control Valve Circuit High																		
P20AA	Reductant Injection Air Pressure Control Valve Stuck Open																		
P20AB	Reductant Injection Air Pressure Control Valve Stuck Closed																		
P20AC	Reductant Metering Unit Temperature Sensor Circuit																		
P20AD	Reductant Metering Unit Temperature Sensor Circuit Range/Performance																		
P20AE	Reductant Metering Unit Temperature Sensor Circuit Low																		
P20AF	Reductant Metering Unit Temperature Sensor Circuit High																		
P20B0	Reductant Metering Unit Temperature Sensor Circuit Intermittent/Erratic																		
P20B1	Reductant Heater Coolant Control Valve Circuit / Open																		
P20B2	Reductant Heater Coolant Control Valve Performance																		
P20B3	Reductant Heater Coolant Control Valve Circuit Low																		
P20B4	Reductant Heater Coolant Control Valve Circuit High																		
P20B5	Reductant Metering Unit Heater Control Circuit / Open																		
P20B6	Reductant Metering Unit Heater Control Performance																		
P20B7	Reductant Metering Unit Heater Control Circuit Low																		
P20B8	Reductant Metering Unit Heater Control Circuit High																		
P20B9	Reductant Heater "A" Control Circuit / Open																		
P20BA	Reductant Heater "A" Control Performance																		
P20BB	Reductant Heater "A" Control Circuit Low																		
P20BC	Reductant Heater "A" Control Circuit High																		
P20BD	Reductant Heater "B" Control Circuit / Open																		
P20BE	Reductant Heater "B" Control Performance																		
P20BF	Reductant Heater "B" Control Circuit Low																		
P20C0	Reductant Heater "B" Control Circuit High																		
P20C1	Reductant Heater "C" Control Circuit / Open																		
P20C2	Reductant Heater "C" Control Performance																		
P20C3	Reductant Heater "C" Control Circuit Low																		
P20C4	Reductant Heater "C" Control Circuit High																		
P20C5	Reductant Heater "D" Control Circuit / Open																		
P20C6	Reductant Heater "D" Control Performance																		

OBD-II Diagnostic Trouble Code Definitions		North America										Europe			Australia		SAE J1930 Component/ System and I/O Type						
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel	Spark Ignition								
	* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used	Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER					Continuous	KOEO	KOER	Continuous	KOEO	KOER			
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P20C7	Reductant Heater "D" Control Circuit Low																						
P20C8	Reductant Heater "D" Control Circuit High																						
P20C9	Reductant Control Module Requested MIL Illumination																						
P20CA	Reductant Injection Air Pressure Leakage																						
P20CB	Exhaust Aftertreatment Fuel Injector "A" Control Circuit / Open																						
P20CC	Exhaust Aftertreatment Fuel Injector "A" Control Performance																						
P20CD	Exhaust Aftertreatment Fuel Injector "A" Control Circuit Low																						
P20CE	Exhaust Aftertreatment Fuel Injector "A" Control Circuit High																						
P20CF	Exhaust Aftertreatment Fuel Injector "A" Stuck Open																						
P20D0	Exhaust Aftertreatment Fuel Injector "A" Stuck Closed																						
P20D1	Exhaust Aftertreatment Fuel Injector "B" Control Circuit / Open																						
P20D2	Exhaust Aftertreatment Fuel Injector "B" Control Performance																						
P20D3	Exhaust Aftertreatment Fuel Injector "B" Control Circuit Low																						
P20D4	Exhaust Aftertreatment Fuel Injector "B" Control Circuit High																						
P20D5	Exhaust Aftertreatment Fuel Injector "B" Stuck Open																						
P20D6	Exhaust Aftertreatment Fuel Injector "B" Stuck Closed																						
P20D7	Exhaust Aftertreatment Fuel Supply Control Circuit / Open																						
P20D8	Exhaust Aftertreatment Fuel Supply Control Performance																						
P20D9	Exhaust Aftertreatment Fuel Supply Control Circuit Low																						
P20DA	Exhaust Aftertreatment Fuel Supply Control Circuit High																						
P20DB	Exhaust Aftertreatment Fuel Supply Control Stuck Open																						
P20DC	Exhaust Aftertreatment Fuel Supply Control Stuck Closed																						
P20DD	Exhaust Aftertreatment Fuel Pressure Sensor Circuit																						
P20DE	Exhaust Aftertreatment Fuel Pressure Sensor Circuit Range/Performance																						
P20DF	Exhaust Aftertreatment Fuel Pressure Sensor Circuit Low																						
P20E0	Exhaust Aftertreatment Fuel Pressure Sensor Circuit High																						
P20E1	Exhaust Aftertreatment Fuel Pressure Sensor Circuit Intermittent/Erratic																						
P20E2	Exhaust Gas Temperature Sensor 1 / 2 Correlation (Bank 1)																						
P20E3	Exhaust Gas Temperature Sensor 1 / 3 Correlation (Bank 1)																						
P20E4	Exhaust Gas Temperature Sensor 2 / 3 Correlation (Bank 1)																						
P20E5	Exhaust Gas Temperature Sensor 1 / 2 Correlation (Bank 2)																						
P20E6	Reductant Injection Air Pressure Too Low																						
P20E7	Reductant Injection Air Pressure Too High																						
P20E8	Reductant Pressure Too Low																						
P20E9	Reductant Pressure Too High																						
P20EA	Reductant Control Module Power Relay De-Energized Performance - Too Early																						
P20EB	Reductant Control Module Power Relay De-Energized Performance - Too Late																						
P20EC	SCR NOx Catalyst - Over Temperature (Bank 1)																						
P20ED	SCR NOx Pre-Catalyst - Over Temperature (Bank 1)																						
P20EE	SCR NOx Catalyst Efficiency Below Threshold (Bank 1)																						
P20EF	SCR NOx Pre-Catalyst Efficiency Below Threshold (Bank 1)																						
P20F0	SCR NOx Catalyst - Over Temperature (Bank 2)																						
P20F1	SCR NOx Pre-Catalyst - Over Temperature (Bank 2)																						
P20F2	SCR NOx Catalyst Efficiency Below Threshold (Bank 2)																						
P20F3	SCR NOx Pre-Catalyst Efficiency Below Threshold (Bank 2)																						
P20F4	Reductant Consumption Too Low																						
P20F5	Reductant Consumption Too High																						
P20F6	Reductant Injection Valve Stuck Open (Bank 1 Unit 1)																						
P20F7	Reductant Injection Valve Stuck Open (Bank 2 Unit 1)																						
P20F8																							
P20F9																							
P20FA																							
P20FB																							
P20FC																							
P20FD																							
P20FE																							
P20FF																							





OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/System and I/O Type		
		Spark Ignition PCM	KOE		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition	Diesel		Spark Ignition				
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOE	KOE	Continuous	KOE	KOE	Continuous	KOE	KOE				Continuous	KOE	KOE	Continuous	KOE	KOE	
Capital and small usage letters are used for visual impact only! Mazda, Nissan and Land Rover legacy DTCs are for reference. Ford P/T was not responsible for assigning these DTCs. Shading indicates change from previous version.																				
P2125	Throttle/Pedal Position Sensor/Switch "E" Circuit							D	d	d				E*			D			
P2126	Throttle/Pedal Position Sensor/Switch "E" Circuit Range/Performance	G	g	g				D	d	d	M*			E*						
P2127	Throttle/Pedal Position Sensor/Switch "E" Circuit Low	G+	g	g				D*	d	d	M*			E*						
P2128	Throttle/Pedal Position Sensor/Switch "E" Circuit High	G+	g	g				D*	d	d	M*			E*						
P2129	Throttle/Pedal Position Sensor/Switch "E" Circuit Intermittent	G	g	g				D	d	d	M			E						
P212A	Throttle/Pedal Position Sensor/Switch "G" Circuit																			
P212B	Throttle/Pedal Position Sensor/Switch "G" Circuit Range/Performance																			
P212C	Throttle/Pedal Position Sensor/Switch "G" Circuit Low																			
P212D	Throttle/Pedal Position Sensor/Switch "G" Circuit High																			
P212E	Throttle/Pedal Position Sensor/Switch "G" Circuit Intermittent																			
P212F																				
P2130	Throttle/Pedal Position Sensor/Switch "F" Circuit							D	d	d										
P2131	Throttle/Pedal Position Sensor/Switch "F" Circuit Range/Performance	G	g	g				D	d	d										
P2132	Throttle/Pedal Position Sensor/Switch "F" Circuit Low	G+	g	g				D*	d	d										
P2133	Throttle/Pedal Position Sensor/Switch "F" Circuit High	G+	g	g				D*	d	d										
P2134	Throttle/Pedal Position Sensor/Switch "F" Circuit Intermittent	G	g	g				D	d	d										
P2135	Throttle/Pedal Position Sensor/Switch "A" / "B" Voltage Correlation	G+						D	d	d	M*			E*						
P2136	Throttle/Pedal Position Sensor/Switch "A" / "C" Voltage Correlation							D	d	d				E*						
P2137	Throttle/Pedal Position Sensor/Switch "B" / "C" Voltage Correlation							D	d	d										
P2138	Throttle/Pedal Position Sensor/Switch "D" / "E" Voltage Correlation	G+	g	g				D+	d	d	M*			E*						
P2139	Throttle/Pedal Position Sensor/Switch "D" / "F" Voltage Correlation	G+	g	g				D	d	d										
P213A	Exhaust Gas Recirculation Throttle Control Circuit "B" / Open																			
P213B	Exhaust Gas Recirculation Throttle Control Circuit "B" Range/Performance																			
P213C	Exhaust Gas Recirculation Throttle Control Circuit "B" Low																			
P213D	Exhaust Gas Recirculation Throttle Control Circuit "B" High																			
P213E	Fuel Injection System Fault - Forced Engine Shutdown																			
P213F	Fuel Pump System Fault - Forced Engine Shutdown																			
P2140	Throttle/Pedal Position Sensor/Switch "E" / "F" Voltage Correlation	G+	g	g				D	d	d										
P2141	Exhaust Gas Recirculation Throttle Control Circuit "A" Low																D			
P2142	Exhaust Gas Recirculation Throttle Control Circuit "A" High																D			
P2143	Exhaust Gas Recirculation Vent Control Circuit / Open																			
P2144	Exhaust Gas Recirculation Vent Control Circuit Low										M*									
P2145	Exhaust Gas Recirculation Vent Control Circuit High										M*									
P2146	Fuel Injector Group "A" Supply Voltage Circuit / Open																			
P2147	Fuel Injector Group "A" Supply Voltage Circuit Low													E						
P2148	Fuel Injector Group "A" Supply Voltage Circuit High													E						
P2149	Fuel Injector Group "B" Supply Voltage Circuit / Open																			
P2150	Fuel Injector Group "B" Supply Voltage Circuit Low																			
P2151	Fuel Injector Group "B" Supply Voltage Circuit High																			
P2152	Fuel Injector Group "C" Supply Voltage Circuit / Open																			
P2153	Fuel Injector Group "C" Supply Voltage Circuit Low																			
P2154	Fuel Injector Group "C" Supply Voltage Circuit High																			
P2155	Fuel Injector Group "D" Supply Voltage Circuit / Open																			
P2156	Fuel Injector Group "D" Supply Voltage Circuit Low																			
P2157	Fuel Injector Group "D" Supply Voltage Circuit High																			
P2158	Vehicle Speed Sensor "B"																			
P2159	Vehicle Speed Sensor "B" Range/Performance																			
P215A	Vehicle Speed / Wheel Speed Correlation							D*		d										
P215B	Vehicle Speed / Output Shaft Speed Correlation							D*		d										
P215C	Output Shaft Speed / Wheel Speed Correlation																			
P215D																				
P215E																				
P215F																				
P2160	Vehicle Speed Sensor "B" Circuit Low																			
P2161	Vehicle Speed Sensor "B" Intermittent/Erratic																			
P2162	Vehicle Speed Sensor "A" / "B" Correlation																			
P2163	Throttle/Pedal Position Sensor "A" Maximum Stop Performance																			
P2164	Throttle/Pedal Position Sensor "B" Maximum Stop Performance																			
P2165	Throttle/Pedal Position Sensor "C" Maximum Stop Performance																			
P2166	Throttle/Pedal Position Sensor "D" Maximum Stop Performance																			
P2167	Throttle/Pedal Position Sensor "E" Maximum Stop Performance																			
P2168	Throttle/Pedal Position Sensor "F" Maximum Stop Performance																			





OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type					
		Spark Ignition PCM																					
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P2258	Secondary Air Injection System Control "A" Circuit High	G*	g																				
P2259	Secondary Air Injection System Control "B" Circuit Low																						
P2260	Secondary Air Injection System Control "B" Circuit High																						
P2261	Turbocharger/Supercharger Bypass Valve - Mechanical																						
P2262	Turbocharger/Supercharger Boost Pressure Not Detected - Mechanical								D*														
P2263	Turbocharger/Supercharger Boost System Performance								D*														
P2264	Water in Fuel Sensor Circuit								D	d	d												
P2265	Water in Fuel Sensor Circuit Range/Performance																						
P2266	Water in Fuel Sensor Circuit Low																						
P2267	Water in Fuel Sensor Circuit High																						
P2268	Water in Fuel Sensor Circuit Intermittent																						
P2269	Water in Fuel Condition								D	d	d												
P226A	Water In Fuel Lamp Control Circuit																						
P226B	Turbocharger/Supercharger Boost Pressure Too High - Mechanical																						
P226C																							
P226D																							
P226E																							
P226F																							
P2270	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 2)	G*	g									M*											
P2271	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 2)	G*	g									M*											
P2272	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 2)	G*	g																				
P2273	O2 Sensor Signal Biased/Stuck Rich (Bank 2 Sensor 2)	G*	g																				
P2274	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 3)	G*	g									M*											
P2275	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 3)	G*	g									M*											
P2276	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 3)	G*	g																				
P2277	O2 Sensor Signal Biased/Stuck Rich (Bank 2 Sensor 3)	G*	g																				
P2278	Oxygen Sensor Signals Swapped Bank 1 Sensor 3 / Bank 2 Sensor 3			g																			
P2279	Intake Air System Leak	G*																					
P2280	Air Flow Restriction / Air Leak Between Air Cleaner and MAF														E								
P2281	Air Leak Between MAF and Throttle Body														E								
P2282	Air Leak Between Throttle Body and Intake Valve														E								
P2283	Injector Control Pressure Sensor Circuit																						
P2284	Injector Control Pressure Sensor Circuit Range/Performance								D*		d												
P2285	Injector Control Pressure Sensor Circuit Low								D*	d	d												
P2286	Injector Control Pressure Sensor Circuit High								D*	d	d												
P2287	Injector Control Pressure Sensor Circuit Intermittent																						
P2288	Injector Control Pressure Too High								D*		d												
P2289	Injector Control Pressure Too High - Engine Off								D*		d												
P228A	Fuel Pressure Regulator 1 - Forced Engine Shutdown																						FPR1
P228B	Fuel Pressure Regulator 2 - Forced Engine Shutdown																						FPR2
P228C	Fuel Pressure Regulator 1 Exceeded Control Limits - Pressure Too Low																						FPR1
P228D	Fuel Pressure Regulator 1 Exceeded Control Limits - Pressure Too High																						FPR1
P228E	Fuel Pressure Regulator 1 Exceeded Learning Limits - Too Low																						FPR1
P228F	Fuel Pressure Regulator 1 Exceeded Learning Limits - Too Low																						FPR1
P2290	Injector Control Pressure Too Low								D*	d	d												
P2291	Injector Control Pressure Too Low - Engine Cranking								D+														
P2292	Injector Control Pressure Erratic								D		d												
P2293	Fuel Pressure Regulator 2 Performance																						FPR2
P2294	Fuel Pressure Regulator 2 Control Circuit / Open																						FPR2
P2295	Fuel Pressure Regulator 2 Control Circuit Low																						FPR2
P2296	Fuel Pressure Regulator 2 Control Circuit High																						FPR2
P2297	O2 Sensor Out of Range During Deceleration (Bank 1 Sensor 1)														E*								
P2298	O2 Sensor Out of Range During Deceleration (Bank 2 Sensor 1)														E*								
P2299	Brake Pedal Position/Accelerator Pedal Position Incompatible								D*	d	d												
P229A	Fuel Pressure Regulator 2 Exceeded Control Limits - Pressure Too Low																						FPR2
P229B	Fuel Pressure Regulator 2 Exceeded Control Limits - Pressure Too High																						FPR2
P229C	Fuel Pressure Regulator 2 Exceeded Learning Limits - Too Low																						FPR2
P229D	Fuel Pressure Regulator 2 Exceeded Learning Limits - Too Low																						FPR2
P229E	NOx Sensor Circuit (Bank 1 Sensor 2)																						
P229F	NOx Sensor Circuit Range/Performance (Bank 1 Sensor 2)																						
P22A0	NOx Sensor Circuit Low (Bank 1 Sensor 2)																						
P22A1	NOx Sensor Circuit High (Bank 1 Sensor 2)																						

OBD-II Diagnostic Trouble Code Definitions		North America										Europe			Australia		SAE J1930 Component/ System and I/O Type				
		Spark Ignition PCM																			
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P22A2	NOx Sensor Circuit Intermittent (Bank 1 Sensor 2)																				
P22A3	NOx Sensor Heater Control Circuit/Open (Bank 1 Sensor 2)																				
P22A4	NOx Sensor Heater Control Circuit Low (Bank 1 Sensor 2)																				
P22A5	NOx Sensor Heater Control Circuit High (Bank 1 Sensor 2)																				
P22A6	NOx Sensor Heater Sense Circuit (Bank 1 Sensor 2)																				
P22A7	NOx Sensor Heater Sense Circuit Range/Performance (Bank 1 Sensor 2)																				
P22A8	NOx Sensor Heater Sense Circuit Low (Bank 1 Sensor 2)																				
P22A9	NOx Sensor Heater Sense Circuit High (Bank 1 Sensor 2)																				
P22AA	NOx Sensor Heater Sense Circuit Intermittent (Bank 1 Sensor 2)																				
Ignition System or Misfire																					
P2300	Ignition Coil "A" Primary Control Circuit Low																				
P2301	Ignition Coil "A" Primary Control Circuit High																				
P2302	Ignition Coil "A" Secondary Circuit																				
P2303	Ignition Coil "B" Primary Control Circuit Low																				
P2304	Ignition Coil "B" Primary Control Circuit High																				
P2305	Ignition Coil "B" Secondary Circuit																				
P2306	Ignition Coil "C" Primary Control Circuit Low																				
P2307	Ignition Coil "C" Primary Control Circuit High																				
P2308	Ignition Coil "C" Secondary Circuit																				
P2309	Ignition Coil "D" Primary Control Circuit Low																				
P2310	Ignition Coil "D" Primary Control Circuit High																				
P2311	Ignition Coil "D" Secondary Circuit																				
P2312	Ignition Coil "E" Primary Control Circuit Low																				
P2313	Ignition Coil "E" Primary Control Circuit High																				
P2314	Ignition Coil "E" Secondary Circuit																				
P2315	Ignition Coil "F" Primary Control Circuit Low																				
P2316	Ignition Coil "F" Primary Control Circuit High																				
P2317	Ignition Coil "F" Secondary Circuit																				
P2318	Ignition Coil "G" Primary Control Circuit Low																				
P2319	Ignition Coil "G" Primary Control Circuit High																				
P2320	Ignition Coil "G" Secondary Circuit																				
P2321	Ignition Coil "H" Primary Control Circuit Low																				
P2322	Ignition Coil "H" Primary Control Circuit High																				
P2323	Ignition Coil "H" Secondary Circuit																				
P2324	Ignition Coil "I" Primary Control Circuit Low																				
P2325	Ignition Coil "I" Primary Control Circuit High																				
P2326	Ignition Coil "I" Secondary Circuit																				
P2327	Ignition Coil "J" Primary Control Circuit Low																				
P2328	Ignition Coil "J" Primary Control Circuit High																				
P2329	Ignition Coil "J" Secondary Circuit																				
P2330	Ignition Coil "K" Primary Control Circuit Low																				
P2331	Ignition Coil "K" Primary Control Circuit High																				
P2332	Ignition Coil "K" Secondary Circuit																				
P2333	Ignition Coil "L" Primary Control Circuit Low																				
P2334	Ignition Coil "L" Primary Control Circuit High																				
P2335	Ignition Coil "L" Secondary Circuit																				
P2336	Cylinder #1 Above Knock Threshold														E					D*	
P2337	Cylinder #2 Above Knock Threshold														E					D*	
P2338	Cylinder #3 Above Knock Threshold														E					D*	
P2339	Cylinder #4 Above Knock Threshold																			D*	
P2340	Cylinder #5 Above Knock Threshold																				
P2341	Cylinder #6 Above Knock Threshold																				
P2342	Cylinder #7 Above Knock Threshold																				
P2343	Cylinder #8 Above Knock Threshold																				
P2344	Cylinder #9 Above Knock Threshold																				
P2345	Cylinder #10 Above Knock Threshold																				
P2346	Cylinder #11 Above Knock Threshold																				
P2347	Cylinder #12 Above Knock Threshold																				
P2348																					
P2349																					
P234A																					





OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type			
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel	Spark Ignition						
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER					Continuous	KOEO	KOER	Continuous	KOEO	KOER	
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P2432	Secondary Air Injection System Air Flow/Pressure Sensor Circuit Low (Bank 1)																				
P2433	Secondary Air Injection System Air Flow/Pressure Sensor Circuit High (Bank 1)																				
P2434	Secondary Air Injection System Air Flow/Pressure Sensor Circuit Intermittent High Input (Bank 1)																				
P2435	Secondary Air Injection System Air Flow/Pressure Sensor Circuit (Bank 2)																				
P2436	Secondary Air Injection System Air Flow/Pressure Sensor Circuit Range/Performance (Bank 2)																				
P2437	Secondary Air Injection System Air Flow/Pressure Sensor Circuit Low (Bank 2)																				
P2438	Secondary Air Injection System Air Flow/Pressure Sensor Circuit High (Bank 2)																				
P2439	Secondary Air Injection System Air Flow/Pressure Sensor Circuit Intermittent High Input (Bank 2)																				
P2440	Secondary Air Injection System Switching Valve Stuck Open (Bank 1)																				
P2441	Secondary Air Injection System Switching Valve Stuck Closed (Bank 1)																				
P2442	Secondary Air Injection System Switching Valve Stuck Open (Bank 2)																				
P2443	Secondary Air Injection System Switching Valve Stuck Closed (Bank 2)																				
P2444	Secondary Air Injection System Pump Stuck On (Bank 1)																				
P2445	Secondary Air Injection System Pump Stuck Off (Bank 1)																				
P2446	Secondary Air Injection System Pump Stuck On (Bank 2)																				
P2447	Secondary Air Injection System Pump Stuck Off (Bank 2)																				
P2448	Secondary Air Injection System High Air Flow (Bank 1)	G*		g																	
P2449	Secondary Air Injection System High Air Flow (Bank 2)																				
P244A	Diesel Particulate Filter Differential Pressure Too Low (Bank 1)							D*													
P244B	Diesel Particulate Filter Differential Pressure Too High (Bank 1)																				
P244C	Exhaust Temperature Too Low For Particulate Filter Regeneration (Bank 1)							D									D*				
P244D	Exhaust Temperature Too High For Particulate Filter Regeneration (Bank 1)							D													
P244E	Exhaust Temperature Too Low For Particulate Filter Regeneration (Bank 2)																				
P244F	Exhaust Temperature Too High For Particulate Filter Regeneration (Bank 2)																				
P2450	Evaporative Emission Control System Switching Valve Performance/Stuck Open	G*																			
P2451	Evaporative Emission Control System Switching Valve Stuck Closed																				
P2452	Diesel Particulate Filter Pressure Sensor "A" Circuit							D*													DPFP-A
P2453	Diesel Particulate Filter Pressure Sensor "A" Circuit Range/Performance							D*													DPFP-A
P2454	Diesel Particulate Filter Pressure Sensor "A" Circuit Low							D*													DPFP-A
P2455	Diesel Particulate Filter Pressure Sensor "A" Circuit High							D*													DPFP-A
P2456	Diesel Particulate Filter Pressure Sensor "A" Circuit Intermittent/Erratic							D													DPFP-A
P2457	Exhaust Gas Recirculation Cooler System Performance							D*													
P2458	Diesel Particulate Filter Regeneration Duration							D													
P2459	Diesel Particulate Filter Regeneration Frequency							D+													
P245A	Exhaust Gas Recirculation Cooler Bypass Control Circuit							D*	d	d											
P245B	Exhaust Gas Recirculation Cooler Bypass Control Circuit Range/Performance							D*													
P245C	Exhaust Gas Recirculation Cooler Bypass Control Circuit Low							D*	d	d											
P245D	Exhaust Gas Recirculation Cooler Bypass Control Circuit High							D*	d	d											
P245E	Diesel Particulate Filter Pressure Sensor "B" Circuit																				DPFP-B
P245F	Diesel Particulate Filter Pressure Sensor "B" Circuit Range/Performance																				DPFP-B
P2460	Diesel Particulate Filter Pressure Sensor "B" Circuit Low																				DPFP-B
P2461	Diesel Particulate Filter Pressure Sensor "B" Circuit High																				DPFP-B
P2462	Diesel Particulate Filter Pressure Sensor "B" Circuit Intermittent/Erratic																				DPFP-B
P2463	Diesel Particulate Filter Restriction - Soot Accumulation							D+													
P2464	Diesel Particulate Filter Differential Pressure Too Low (Bank 2)																				
P2465	Diesel Particulate Filter Differential Pressure Too High (Bank 2)																				
P2466	Exhaust Gas Temperature Sensor Circuit (Bank 2 Sensor 3)																				
P2467	Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 2 Sensor 3)																				
P2468	Exhaust Gas Temperature Sensor Circuit Low (Bank 2 Sensor 3)																				
P2469	Exhaust Gas Temperature Sensor Circuit High (Bank 2 Sensor 3)																				
P246A	Exhaust Gas Temperature Sensor Circuit Intermittent/Erratic (Bank 2 Sensor 3)																				
P246B	Vehicle Conditions Incorrect for Diesel Particulate Filter Regeneration							D*													
P246C	Diesel Particulate Filter Restriction - Forced Limited Power							D+													
P246D	Diesel Particulate Filter Pressure Sensor "A" / "B" Correlation																				D
P246E	Exhaust Gas Temperature Sensor Circuit (Bank 1 Sensor 4)																				
P246F	Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 1 Sensor 4)																				
P2470	Exhaust Gas Temperature Sensor Circuit Low (Bank 1 Sensor 4)																				
P2471	Exhaust Gas Temperature Sensor Circuit High (Bank 1 Sensor 4)																				
P2472	Exhaust Gas Temperature Sensor Circuit Intermittent/Erratic (Bank 1 Sensor 4)																				
P2473	Exhaust Gas Temperature Sensor Circuit (Bank 2 Sensor 4)																				
P2474	Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 2 Sensor 4)																				
P2475	Exhaust Gas Temperature Sensor Circuit Low (Bank 2 Sensor 4)																				



OBD-II Diagnostic Trouble Code Definitions		North America										Europe			Australia		SAE J1930 Component/System and I/O Type					
		Spark Ignition PCM																				
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P2476	Exhaust Gas Temperature Sensor Circuit High (Bank 2 Sensor 4)																					
P2477	Exhaust Gas Temperature Sensor Circuit Intermittent/Erratic (Bank 2 Sensor 4)																					
P2478	Exhaust Gas Temperature Out of Range (Bank 1 Sensor 1)																					
P2479	Exhaust Gas Temperature Out of Range (Bank 1 Sensor 2)																					
P247A	Exhaust Gas Temperature Out of Range (Bank 1 Sensor 3)																					
P247B	Exhaust Gas Temperature Out of Range (Bank 1 Sensor 4)																					
P247C	Exhaust Gas Temperature Out of Range (Bank 2 Sensor 1)																					
P247D	Exhaust Gas Temperature Out of Range (Bank 2 Sensor 2)																					
P247E	Exhaust Gas Temperature Out of Range (Bank 2 Sensor 3)																					
P247F	Exhaust Gas Temperature Out of Range (Bank 2 Sensor 4)																					
P2480	Exhaust Gas Temperature Sensor Circuit (Bank 1 Sensor 5)																					
P2481	Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 1 Sensor 5)																					
P2482	Exhaust Gas Temperature Sensor Circuit Low (Bank 1 Sensor 5)																					
P2483	Exhaust Gas Temperature Sensor Circuit High (Bank 1 Sensor 5)																					
P2484	Exhaust Gas Temperature Sensor Circuit Intermittent/Erratic (Bank 1 Sensor 5)																					
P2485	Exhaust Gas Temperature Sensor Circuit (Bank 2 Sensor 5)																					
P2486	Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 2 Sensor 5)																					
P2487	Exhaust Gas Temperature Sensor Circuit Low (Bank 2 Sensor 5)																					
P2488	Exhaust Gas Temperature Sensor Circuit High (Bank 2 Sensor 5)																					
P2489	Exhaust Gas Temperature Sensor Circuit Intermittent/Erratic (Bank 2 Sensor 5)																					
P248A																						
Vehicle Speed, Idle Control and Auxiliary Inputs																						
P2500	Generator Lamp Terminal Circuit Low																				M	
P2501	Generator Lamp Terminal Circuit High																				M	
P2502	Charging System Voltage																				M	
P2503	Charging System Voltage Low																				M	J
P2504	Charging System Voltage High																				M	J
P2505	ECM / PCM Power Input Signal									D	d											
P2506	ECM / PCM Power Input Signal Range/Performance																					
P2507	ECM / PCM Power Input Signal Low									D	d										M*	
P2508	ECM / PCM Power Input Signal High									D	d											
P2509	ECM / PCM Power Input Signal Intermittent																					
P250A	Engine Oil Level Sensor Circuit																					
P250B	Engine Oil Level Sensor Circuit Range/Performance																					
P250C	Engine Oil Level Sensor Circuit Low																					
P250D	Engine Oil Level Sensor Circuit High																					
P250E	Engine Oil Level Sensor Circuit Intermittent/Erratic																					
P250F	Engine Oil Level Too Low																					
P2510	ECM / PCM Power Relay Sense Circuit Range/Performance																					
P2511	ECM / PCM Power Relay Sense Circuit Intermittent																					
P2512	Event Data Recorder Request Circuit / Open									G+												
P2513	Event Data Recorder Request Circuit Low									G+												
P2514	Event Data Recorder Request Circuit High									G+												
P2515	A/C Refrigerant Pressure Sensor "B" Circuit									G	g	g										
P2516	A/C Refrigerant Pressure Sensor "B" Circuit Range/Performance																					
P2517	A/C Refrigerant Pressure Sensor "B" Circuit Low									G	g	g										
P2518	A/C Refrigerant Pressure Sensor "B" Circuit High																					
P2519	A/C Request "A" Circuit																					
P251A	PTO Enable Switch Circuit / Open																					
P251B	PTO Enable Switch Circuit Low																					
P251C	PTO Enable Switch Circuit High																					
P251D	PTO Engine Shutdown Circuit / Open																					
P251E	PTO Engine Shutdown Circuit Low																					
P251F	PTO Engine Shutdown Circuit High																					
P2520	A/C Request "A" Circuit Low																					
P2521	A/C Request "A" Circuit High									G	g	g										
P2522	A/C Request "B" Circuit																					
P2523	A/C Request "B" Circuit Low																					
P2524	A/C Request "B" Circuit High									G	g	g										

OBD-II Diagnostic Trouble Code Definitions		North America										Europe			Australia							
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used  Capital and small usage letters are used for visual impact only! Mazda, Nissan and Land Rover legacy DTCs are for reference. Ford P/T was not responsible for assigning these DTCs. Shading indicates change from previous version.		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda		Jaguar		Land Rover		Nissan		Spark Ignition		Diesel		Spark Ignition		SAE J1930 Component/ System and I/O Type  A = Analog D = Digital F = Frequency I = Input O = Output
		Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER							Continuous	KOEO	KOER	Continuous	KOEO	
P2525	Vacuum Reservoir Pressure Sensor Circuit																					
P2526	Vacuum Reservoir Pressure Sensor Circuit Range/Performance																					
P2527	Vacuum Reservoir Pressure Sensor Circuit Low																					
P2528	Vacuum Reservoir Pressure Sensor Circuit High																					
P2529	Vacuum Reservoir Pressure Sensor Circuit Intermittent																					
P252A	Engine Oil Quality Sensor Circuit																					
P252B	Engine Oil Quality Sensor Circuit Range/Performance																					
P252C	Engine Oil Quality Sensor Circuit Low																					
P252D	Engine Oil Quality Sensor Circuit High																					
P252E	Engine Oil Quality Circuit Intermittent/Erratic																					
P252F	Engine Oil Level Too High																					
P2530	Ignition Switch Run Position Circuit																					
P2531	Ignition Switch Run Position Circuit Low	G	g	g																		
P2532	Ignition Switch Run Position Circuit High																					
P2533	Ignition Switch Run/Start Position Circuit	G	g	g																		
P2534	Ignition Switch Run/Start Position Circuit Low																					
P2535	Ignition Switch Run/Start Position Circuit High	G	g	g																		
P2536	Ignition Switch Accessory Position Circuit																					
P2537	Ignition Switch Accessory Position Circuit Low																					
P2538	Ignition Switch Accessory Position Circuit High																					
P2539	Low Pressure Fuel System Sensor Circuit																					
P253A	PTO Sense Circuit / Open																					
P253B	PTO Sense Circuit Range/Performance																					
P253C	PTO Sense Circuit Low																					
P253D	PTO Sense Circuit High																					
P253E	PTO Sense Circuit Intermittent/Erratic																					
P253F	Engine Oil Deteriorated																					
P2540	Low Pressure Fuel System Sensor Circuit Range / Performance																					
P2541	Low Pressure Fuel System Sensor Circuit Low																					
P2542	Low Pressure Fuel System Sensor Circuit High																					
P2543	Low Pressure Fuel System Sensor Circuit Intermittent																					
P2544	Torque Management Request Input Signal A				T																	
P2545	Torque Management Request Input Signal "A" Range / Performance						D*															
P2546	Torque Management Request Input Signal "A" Low																					
P2547	Torque Management Request Input Signal "A" High																					
P2548	Torque Management Request Input Signal "B"																					
P2549	Torque Management Request Input Signal "B" Range / Performance																					
P254A	PTO Speed Selector Sensor/Switch 1 Circuit / Open																					PTO
P254B	PTO Speed Selector Sensor/Switch 1 Circuit Range/Performance																					PTO
P254C	PTO Speed Selector Sensor/Switch 1 Circuit Low																					PTO
P254D	PTO Speed Selector Sensor/Switch 1 Circuit High																					PTO
P254E	PTO Speed Selector Sensor/Switch 1 Circuit Intermittent/Erratic																					PTO
P254F	Engine Hood Switch Circuit / Open																					
P2550	Torque Management Request Input Signal "B" Low																					
P2551	Torque Management Request Input Signal "B" High																					
P2552	Throttle/Fuel Inhibit Circuit / Open						D	d	d													
P2553	Throttle/Fuel Inhibit Circuit Range / Performance																					
P2554	Throttle/Fuel Inhibit Circuit Low																					
P2555	Throttle/Fuel Inhibit Circuit High																					
P2556	Engine Coolant Level Sensor/Switch Circuit																					
P2557	Engine Coolant Level Sensor/Switch Circuit Range / Performance																					
P2558	Engine Coolant Level Sensor/Switch Circuit Low																					
P2559	Engine Coolant Level Sensor/Switch Circuit High																					
P255A	PTO Speed Selector Sensor/Switch 2 Circuit / Open																					
P255B	PTO Speed Selector Sensor/Switch 2 Circuit Range/Performance																					
P255C	PTO Speed Selector Sensor/Switch 2 Circuit Low																					
P255D	PTO Speed Selector Sensor/Switch 2 Circuit High																					
P255E	PTO Speed Selector Sensor/Switch 2 Circuit Intermittent/Erratic																					
P255F	A/C Request "A" Circuit Range/Performance																					
P2560	Engine Coolant Level Low																					
P2561	A/C Control Module Requested MIL Illumination																					
P2562	Turbocharger Boost Control Position Sensor "A" Circuit																					

OBD-II Diagnostic Trouble Code Definitions		North America										Europe			Australia		SAE J1930 Component/ System and I/O Type					
		Spark Ignition PCM																				
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER												
Capital and small usage letters are used for visual impact only! Mazda, Nissan and Land Rover legacy DTCs are for reference. Ford P/T was not responsible for assigning these DTCs. Shading indicates change from previous version.																						A = Analog D = Digital F = Frequency I = Input O = Output
P2563	Turbocharger Boost Control Position Sensor "A" Circuit Range/Performance																					
P2564	Turbocharger Boost Control Position Sensor "A" Circuit Low																					
P2565	Turbocharger Boost Control Position Sensor "A" Circuit High																					
P2566	Turbocharger Boost Control Position Sensor "A" Circuit Intermittent																					
P2567	Direct Ozone Reduction Catalyst Temperature Sensor Circuit																					
P2568	Direct Ozone Reduction Catalyst Temperature Sensor Circuit Range/Performance																					
P2569	Direct Ozone Reduction Catalyst Temperature Sensor Circuit Low																					
P256A	Engine Idle Speed Selector Sensor/Switch Circuit / Open																					
P256B	Engine Idle Speed Selector Sensor/Switch Circuit Range/Performance																					
P256C	Engine Idle Speed Selector Sensor/Switch Circuit Low																					
P256D	Engine Idle Speed Selector Sensor/Switch Circuit High																					
P256E	Engine Idle Speed Selector Sensor/Switch Circuit Intermittent/Erratic																					
P256F	A/C Request "B" Circuit Range/Performance																					
P2570	Direct Ozone Reduction Catalyst Temperature Sensor Circuit High																					
P2571	Direct Ozone Reduction Catalyst Temperature Sensor Circuit Intermittent/Erratic																					
P2572	Direct Ozone Reduction Catalyst Deterioration Sensor Circuit																					
P2573	Direct Ozone Reduction Catalyst Deterioration Sensor Circuit Range/Performance																					
P2574	Direct Ozone Reduction Catalyst Deterioration Sensor Circuit Low																					
P2575	Direct Ozone Reduction Catalyst Deterioration Sensor Circuit High																					
P2576	Direct Ozone Reduction Catalyst Deterioration Sensor Circuit Intermittent/Erratic																					
P2577	Direct Ozone Reduction Catalyst Efficiency Below Threshold																					
P2578	Turbocharger Speed Sensor Circuit																					
P2579	Turbocharger Speed Sensor Circuit Range/Performance																					
P257A	Vacuum Reservoir Control Circuit / Open																					
P257B	Vacuum Reservoir Control Circuit Low																					
P257C	Vacuum Reservoir Control Circuit High																					
P257D	Engine Hood Switch Circuit Range/Performance																					
P257E	Engine Hood Switch Circuit Low																					
P257F	Engine Hood Switch Circuit High																					
P2580	Turbocharger Speed Sensor Circuit Low																					
P2581	Turbocharger Speed Sensor Circuit High																					
P2582	Turbocharger Speed Sensor Intermittent																					
P2583	Cruise Control Front Distance Range Sensor - Single Sensor or Center																					
P2584	Fuel Additive Control Module Requested MIL Illumination																					
P2585	Fuel Additive Control Module Warning Lamp Request																					
P2586	Turbocharger Boost Control Position Sensor "B" Circuit																					
P2587	Turbocharger Boost Control Position Sensor "B" Circuit Range/Performance																					
P2588	Turbocharger Boost Control Position Sensor "B" Circuit Low																					
P2589	Turbocharger Boost Control Position Sensor "B" Circuit High																					
P258A	Vacuum Pump Control Circuit / Open																					
P258B	Vacuum Pump Control Range/Performance																					
P258C	Vacuum Pump Control Circuit Low																					
P258D	Vacuum Pump Control Circuit High																					
P258E	PTO Eanable Switch Performance																					
P258F	Torque Management Request Output Signal																					
P2590	Turbocharger Boost Control Position Sensor "B" Circuit Intermittent																					
P2591	Cruise Control Front Distance Range Sensor - Left																					
P2592	Cruise Control Front Distance Range Sensor - Right																					
P2593																						
P2594																						
P2595																						
P2596																						
P2597																						
P2598																						
P2599																						
Computer Outputs																						
P2600	Coolant Pump "A" Control Circuit / Open	G	g	g																		
P2601	Coolant Pump "A" Control Circuit Range/Performance																					
P2602	Coolant Pump "A" Control Circuit Low																					
P2603	Coolant Pump "A" Control Circuit High																					
P2604	Intake Air Heater "A" Circuit Range/Performance																					
P2605	Intake Air Heater "B" Circuit / Open																					

OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type			
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel	Spark Ignition						
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER					Continuous	KOEO	KOER	Continuous	KOEO	KOER	
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P2606	Intake Air Heater "B" Circuit Range/Performance																				
P2607	Intake Air Heater "B" Circuit Low																				
P2608	Intake Air Heater "B" Circuit High																				
P2609	Intake Air Heater System Performance																				
P260A	PTO Control Circuit / Open																				
P260B	PTO Control Circuit Low																				
P260C	PTO Control Circuit High																				
P260D	PTO Engaged Lamp Control Circuit																				
P260E	Diesel Particulate Filter Regeneration Lamp Control Circuit																				
P260F	Evaporative System Monitoring Processor Performance	G*																			
P2610	ECM/PCM Internal Engine Off Timer Performance	G*					D*	d													
P2611	A/C Refrigerant Distribution Valve Control Circuit / Open	G	g	g																	
P2612	A/C Refrigerant Distribution Valve Control Circuit Low																				
P2613	A/C Refrigerant Distribution Valve Control Circuit High																				
P2614	Camshaft Position Output Circuit / Open						D*	d	d												
P2615	Camshaft Position Output Circuit Low																				
P2616	Camshaft Position Output Circuit high																				
P2617	Crankshaft Position Output Circuit / Open						D*	d	d												
P2618	Crankshaft Position Output Circuit Low																				
P2619	Crankshaft Position Output Circuit high																				
P261A	Coolant Pump "B" Control Circuit / Open																				
P261B	Coolant Pump "B" Control Circuit Range/Performance																				
P261C	Coolant Pump "B" Control Circuit Low																				
P261D	Coolant Pump "B" Control Circuit High																				
P261E																					
P261F																					
P2620	Throttle Position Output Circuit / Open						D	d	d												
P2621	Throttle Position Output Circuit Low																				
P2622	Throttle Position Output Circuit High																				
P2623	Injector Control Pressure Regulator / Open						D*	d	d												
P2624	Injector Control Pressure Regulator Low																				
P2625	Injector Control Pressure Regulator High																				
P2626	O2 Sensor Positive Current Trim Circuit / Open (Bank 1 Sensor 1)																				
P2627	O2 Sensor Positive Current Trim Circuit Low (Bank 1 Sensor 1)																				
P2628	O2 Sensor Positive Current Trim Circuit High (Bank 1 Sensor 1)																				
P2629	O2 Sensor Positive Current Trim Circuit / Open (Bank 2 Sensor 1)																				
P2630	O2 Sensor Positive Current Trim Circuit Low (Bank 2 Sensor 1)																				
P2631	O2 Sensor Positive Current Trim Circuit High (Bank 2 Sensor 1)																				
P2632	Fuel Pump "B" Control Circuit / Open																				
P2633	Fuel Pump "B" Control Circuit Low																				
P2634	Fuel Pump "B" Control Circuit High																				
P2635	Fuel Pump "A" Low Flow / Performance																				
P2636	Fuel Pump "B" Low Flow / Performance																				
P2637	Torque Management Feedback Signal A						T														
P2638	Torque Management Feedback Signal "A" Range / Performance																				
P2639	Torque Management Feedback Signal "A" Low																				
P2640	Torque Management Feedback Signal "A" High																				
P2641	Torque Management Feedback Signal "B"																				
P2642	Torque Management Feedback Signal "B" Range / Performance																				
P2643	Torque Management Feedback Signal "B" Low																				
P2644	Torque Management Feedback Signal "B" High																				
P2645	A Rocker Arm Actuator Control Circuit / Open (Bank 1)																				
P2646	A Rocker Arm Actuator Control System Performance/Stuck Off (Bank 1)																				
P2647	A Rocker Arm Actuator Control System Stuck On (Bank 1)																				
P2648	A Rocker Arm Actuator Control Circuit Low (Bank 1)																				
P2649	A Rocker Arm Actuator Control Circuit High (Bank 1)																				
P264A	A Rocker Arm Actuator Position Sensor Circuit (Bank 1)																				
P264B	A Rocker Arm Actuator Position Sensor Circuit Range/Performance (Bank 1)																				
P264C	A Rocker Arm Actuator Position Sensor Circuit Low (Bank 1)																				
P264D	A Rocker Arm Actuator Position Sensor Circuit High (Bank 1)																				
P264E	A Rocker Arm Actuator Position Sensor Circuit Intermittent/Erratic (Bank 1)																				
P264F																					





OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/System and I/O Type					
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel	Spark Ignition								
	* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used	Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER					Continuous	KOEO	KOER	Continuous	KOEO	KOER			
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P2726	Pressure Control Solenoid "E" Intermittent																						
P2727	Pressure Control Solenoid "E" Control Circuit / Open																						
P2728	Pressure Control Solenoid "E" Control Circuit Range/Performance																						
P2729	Pressure Control Solenoid "E" Control Circuit Low																						
P2730	Pressure Control Solenoid "E" Control Circuit High																						
P2731	Pressure Control Solenoid "F"																						
P2732	Pressure Control Solenoid "F" Performance/Stuck Off																						
P2733	Pressure Control Solenoid "F" Stuck On																						
P2734	Pressure Control Solenoid "F" Electrical																						
P2735	Pressure Control Solenoid "F" Intermittent																						
P2736	Pressure Control Solenoid "F" Control Circuit / Open																						
P2737	Pressure Control Solenoid "F" Control Circuit Range/Performance																						
P2738	Pressure Control Solenoid "F" Control Circuit Low																						
P2739	Pressure Control Solenoid "F" Control Circuit High																						
P273A	Transmission Friction Element "G" Apply Time Range/Performance																						
P273B	Transmission Friction Element "H" Apply Time Range/Performance																						
P273C																							
P273D																							
P273E																							
P273F																							
P2740	Transmission Fluid Temperature Sensor "B" Circuit																						
P2741	Transmission Fluid Temperature Sensor "B" Circuit Range/Performance																						
P2742	Transmission Fluid Temperature Sensor "B" Circuit Low																						
P2743	Transmission Fluid Temperature Sensor "B" Circuit High																						
P2744	Transmission Fluid Temperature Sensor "B" Circuit Intermittent																						
P2745	Intermediate Shaft Speed Sensor "B" Circuit																						
P2746	Intermediate Shaft Speed Sensor "B" Circuit Range/Performance																						
P2747	Intermediate Shaft Speed Sensor "B" Circuit No Signal																						
P2748	Intermediate Shaft Speed Sensor "B" Circuit Intermittent																						
P2749	Intermediate Shaft Speed Sensor "C" Circuit																						
P2750	Intermediate Shaft Speed Sensor "C" Circuit Range/Performance																						
P2751	Intermediate Shaft Speed Sensor "C" Circuit No Signal																						
P2752	Intermediate Shaft Speed Sensor "C" Circuit Intermittent																						
P2753	Transmission Fluid Cooler Control Circuit / Open	G																					
P2754	Transmission Fluid Cooler Control Circuit Low							D															
P2755	Transmission Fluid Cooler Control Circuit High							D															
P2756	Torque Converter Clutch Pressure Control Solenoid																						
P2757	Torque Converter Clutch Pressure Control Solenoid Control Circuit Perf or Stuck Off																						
P2758	Torque Converter Clutch Pressure Control Solenoid Stuck On																						
P2759	Torque Converter Clutch Pressure Control Solenoid Electrical																						
P2760	Torque Converter Clutch Pressure Control Solenoid Intermittent																						
P2761	Torque Converter Clutch Pressure Control Solenoid Control Circuit / Open																						
P2762	Torque Converter Clutch Pressure Control Solenoid Control Circuit Range / Perf																						
P2763	Torque Converter Clutch Pressure Control Solenoid Control Circuit High																						
P2764	Torque Converter Clutch Pressure Control Solenoid Control Circuit Low																						
P2765	Input / Turbine Speed Sensor "B" Circuit																						
P2766	Input / Turbine Speed Sensor "B" Circuit Range / Performance																						
P2767	Input / Turbine Speed Sensor "B" Circuit No Signal																						
P2768	Input / Turbine Speed Sensor "B" Circuit Intermittent																						
P2769	Torque Converter Clutch Circuit Low																						
P2770	Torque Converter Clutch Circuit High																						
P2771	Four Wheel Drive (4WD) Low Switch Circuit																						
P2772	Four Wheel Drive (4WD) Low Switch Circuit Range/Performance																						
P2773	Four Wheel Drive (4WD) Low Switch Circuit Low																						
P2774	Four Wheel Drive (4WD) Low Switch Circuit High																						
P2775	Upshift Switch Circuit Range/Performance																						
P2776	Upshift Switch Circuit Low																						
P2777	Upshift Switch Circuit High																						
P2778	Upshift Switch Circuit Intermittent/Erratic																						
P2779	Downshift Switch Circuit Range/Performance																						
P2780	Downshift Switch Circuit Low																						
P2781	Downshift Switch Circuit High																						







OBD-II Diagnostic Trouble Code Definitions		North America										Europe			Australia		SAE J1930 Component/ System and I/O Type	
		Spark Ignition PCM	KOE		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition	Diesel	Spark Ignition			
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOER	Continuous	KOER	Continuous	KOER					Continuous	KOER	KOER	Continuous	KOER	KOER	
P2859	Clutch "A" Pressure Disengagement Performance																	A = Analog D = Digital F = Frequency I = Input O = Output
P285A	Clutch "B" Pressure Disengagement Performance																	
P285B																		
P285C																		
P285D																		
P285E																		
P285F																		
P2860																		
P2861																		
P2862																		
P2862																		
P2864																		
P2865																		
P2866																		
P2867																		
P2868																		
P2869																		
P286A																		
P286B																		
P286C																		
P286D																		
P286E																		
P286F																		
Fuel and Air Metering and Auxiliary Emission Controls																		
P2A00	O2 Sensor Circuit Range / Performance (Bank 1 Sensor 1)																	
P2A01	O2 Sensor Circuit Range / Performance (Bank 1 Sensor 2)																	
P2A02	O2 Sensor Circuit Range / Performance (Bank 1 Sensor 3)																	
P2A03	O2 Sensor Circuit Range / Performance (Bank 2 Sensor 1)																	
P2A04	O2 Sensor Circuit Range / Performance (Bank 2 Sensor 2)																	
P2A05	O2 Sensor Circuit Range / Performance (Bank 2 Sensor 3)																	
P2A06	O2 Sensor Circuit Negative Voltage (Bank 1 Sensor 1)																	
P2A07	O2 Sensor Circuit Negative Voltage (Bank 1 Sensor 2)																	
P2A08	O2 Sensor Circuit Negative Voltage (Bank 1 Sensor 3)																	
P2A09	O2 Sensor Circuit Negative Voltage (Bank 2 Sensor 1)																	
P2A10	O2 Sensor Circuit Negative Voltage (Bank 2 Sensor 2)																	
P2A11	O2 Sensor Circuit Negative Voltage (Bank 2 Sensor 3)																	
P2A12																		
P2A13																		
P2A14																		
P2A15																		



OBD-II Diagnostic Trouble Code Definitions		North America										Europe			Australia		SAE J1930 Component/ System and I/O Type				
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition	Diesel	Spark Ignition							
	* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used	Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER					Continuous	KOEO	KOER	Continuous	KOEO	KOER	
	Capital and small usage letters are used for visual impact only! Mazda, Nissan and Land Rover legacy DTCs are for reference. Ford P/T was not responsible for assigning these DTCs. Shading indicates change from previous version.																				A = Analog D = Digital F = Frequency I = Input O = Output
P3437	Cylinder 5 Exhaust Valve Control Circuit																				
P3438	Cylinder 5 Exhaust Valve Control Circuit Performance																				
P3439	Cylinder 5 Exhaust Valve Control Circuit Low																				
P3440	Cylinder 5 Exhaust Valve Control Circuit High																				
P3441	Cylinder 6 Deactivation/Intake Valve Control Circuit / Open																				
P3442	Cylinder 6 Deactivation/Intake Valve Control Circuit Performance																				
P3443	Cylinder 6 Deactivation/Intake Valve Control Circuit Low																				
P3444	Cylinder 6 Deactivation/Intake Valve Control Circuit High																				
P3445	Cylinder 6 Exhaust Valve Control Circuit																				
P3446	Cylinder 6 Exhaust Valve Control Circuit Performance																				
P3447	Cylinder 6 Exhaust Valve Control Circuit Low																				
P3448	Cylinder 6 Exhaust Valve Control Circuit High																				
P3449	Cylinder 7 Deactivation/Intake Valve Control Circuit / Open																				
P3450	Cylinder 7 Deactivation/Intake Valve Control Circuit Performance																				
P3451	Cylinder 7 Deactivation/Intake Valve Control Circuit Low																				
P3452	Cylinder 7 Deactivation/Intake Valve Control Circuit High																				
P3453	Cylinder 7 Exhaust Valve Control Circuit																				
P3454	Cylinder 7 Exhaust Valve Control Circuit Performance																				
P3455	Cylinder 7 Exhaust Valve Control Circuit Low																				
P3456	Cylinder 7 Exhaust Valve Control Circuit High																				
P3457	Cylinder 8 Deactivation/Intake Valve Control Circuit / Open																				
P3458	Cylinder 8 Deactivation/Intake Valve Control Circuit Performance																				
P3459	Cylinder 8 Deactivation/Intake Valve Control Circuit Low																				
P3460	Cylinder 8 Deactivation/Intake Valve Control Circuit High																				
P3461	Cylinder 8 Exhaust Valve Control Circuit																				
P3462	Cylinder 8 Exhaust Valve Control Circuit Performance																				
P3463	Cylinder 8 Exhaust Valve Control Circuit Low																				
P3464	Cylinder 8 Exhaust Valve Control Circuit High																				
P3465	Cylinder 9 Deactivation/Intake Valve Control Circuit / Open																				
P3466	Cylinder 9 Deactivation/Intake Valve Control Circuit Performance																				
P3467	Cylinder 9 Deactivation/Intake Valve Control Circuit Low																				
P3468	Cylinder 9 Deactivation/Intake Valve Control Circuit High																				
P3469	Cylinder 9 Exhaust Valve Control Circuit																				
P3470	Cylinder 9 Exhaust Valve Control Circuit Performance																				
P3471	Cylinder 9 Exhaust Valve Control Circuit Low																				
P3472	Cylinder 9 Exhaust Valve Control Circuit High																				
P3473	Cylinder 10 Deactivation/Intake Valve Control Circuit / Open																				
P3474	Cylinder 10 Deactivation/Intake Valve Control Circuit Performance																				
P3475	Cylinder 10 Deactivation/Intake Valve Control Circuit Low																				
P3476	Cylinder 10 Deactivation/Intake Valve Control Circuit High																				
P3477	Cylinder 10 Exhaust Valve Control Circuit																				
P3478	Cylinder 10 Exhaust Valve Control Circuit Performance																				
P3479	Cylinder 10 Exhaust Valve Control Circuit Low																				
P3480	Cylinder 10 Exhaust Valve Control Circuit High																				
P3481	Cylinder 11 Deactivation/Intake Valve Control Circuit / Open																				
P3482	Cylinder 11 Deactivation/Intake Valve Control Circuit Performance																				
P3483	Cylinder 11 Deactivation/Intake Valve Control Circuit Low																				
P3484	Cylinder 11 Deactivation/Intake Valve Control Circuit High																				
P3485	Cylinder 11 Exhaust Valve Control Circuit																				
P3486	Cylinder 11 Exhaust Valve Control Circuit Performance																				
P3487	Cylinder 11 Exhaust Valve Control Circuit Low																				
P3488	Cylinder 11 Exhaust Valve Control Circuit High																				
P3489	Cylinder 12 Deactivation/Intake Valve Control Circuit / Open																				
P3490	Cylinder 12 Deactivation/Intake Valve Control Circuit Performance																				
P3491	Cylinder 12 Deactivation/Intake Valve Control Circuit Low																				
P3492	Cylinder 12 Deactivation/Intake Valve Control Circuit High																				
P3493	Cylinder 12 Exhaust Valve Control Circuit																				
P3494	Cylinder 12 Exhaust Valve Control Circuit Performance																				
P3495	Cylinder 12 Exhaust Valve Control Circuit Low																				
P3496	Cylinder 12 Exhaust Valve Control Circuit High																				
P3497	Cylinder Deactivation System (Bank 2)																				
P3498																					

OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type			
		Spark Ignition PCM																			
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER											
Capital and small usage letters are used for visual impact only! Mazda, Nissan and Land Rover legacy DTCs are for reference. Ford P/T was not responsible for assigning these DTCs. Shading indicates change from previous version.																					
P3499																					
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																			
B1483	Brake Pedal Input Circuit Failure	G	g	g																	
B1485	Brake Pedal Input Short To Battery	G	g	g																	
PATS System DTCs																					
B1213	Less Than Two Keys Programmed to the PATS Control							D		M			E		D						
B1232	Antenna Not Connected																				
B1342	ECU is Faulted							D		M											
B1600	No PATS Key Read by the PATS Control							D		M			E		D						
B1601	Unprogrammed PATS Key							D		M			E		D						
B1602	Partial PATS Key was Read							D		M			E		D						
B1681	PATS Transceiver Signal Is Not Being Received by the PATS Control							D		M			E		D						
B2103	Antenna Not Connected							D		M			E		D						
B2139	PCM_ID Does Not Match between PCM and PATS												E		D						
B2141	No-Volatile Memory Configuration Failure												E		D						
B2431	Key Programming Error							D		M			E		D						
P1260	Theft Detected, Vehicle Immobilized	G						D			J		E			U					
U1147	SCP (J1850) Invalid or Missing Data for Vehicle Security												E								
U2510	CAN - Invalid data for Vehicle Security												E								
U2511	CAN - Data Mis-Match (Receive data does not match expected)																				
Alternative Fuel Control Module DTCs																					
B1219	Fuel Tank Pressure Sensor Circuit	G																			
B1220	Fuel Tank Pressure Sensor Circuit Open	G																			
B1317	Battery Voltage High	G																			
B1318	Battery Voltage Low	G																			
U1011	SCP (J1850) Invalid or Missing Data for Engine Air Intake	G																			
U1260	SCP (J1850) Single Ended (+) Circuit Failure	G																			
U1261	SCP (J1850) Single Ended (-) Circuit Failure	G																			
U1262	SCP (J1850) Communication Bus Fault	G																			
4x4 Control Module DTCs																					
C1728	Transfer Case unable to transition between 2H and 4H	G																			
C1729	Transfer Case unable to transition between 4H and 4L	G																			
C1970	4x4 Low Mode Switch LED Short To Battery	G	g	g																	
C1971	4x4 Low Mode Switch LED Circuit Failure	G	g	g																	
C1979	IWE Solenoid Circuit Failure	G	g	g																	
C1980	IWE Solenoid Short to Battery	G	g	g																	
B1317	Battery Voltage High	G	g	g																	
B1318	Battery Voltage Low	G	g	g																	
B1319	Driver Door Ajar Circuit Failure	G																			
B1322	Driver Door Ajar Circuit Short To Ground	G	g	g																	
B1342	ECU Is Faulted	G	g	g																	
B1355	Ignition Run Circuit Failure			g	g																
B1359	Ignition Run/Acc Circuit Failure			g	g																
B1483	Brake Pedal Input Circuit Failure	G	g	g																	
B1485	Brake Pedal Input Circuit Battery Short			g	g																
B1555	Ignition Run/Start Circuit Failure	G	g	g																	
B2105	Throttle Position Input Out of Range Low	G	g	g																	
B2106	Throttle Position Input Out of Range High	G	g	g																	
U1900	CAN Communication Bus Fault - Receive Error	G																			
U1950	UBP Communication Bus Fault	G																			
U2023	Fault Received From External Node	G																			

OBD-II Diagnostic Trouble Code Definitions		North America										Europe			Australia			SAE J1930 Component/ System and I/O Type	
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel	Spark Ignition				
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	Continuous	KOEO	Continuous	KOEO					Continuous	KOEO	KOER		Continuous	KOEO	KOER	
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U2051	One or More Calibration Files Missing / Corrupt																		
U2306	UBP Invalid Data From Node ID \$60	G																	
U2226	UBP Invalid Data From Node ID \$10	G																	
Standalone Transmission Control Module DTCs																			
C1218	ABS Lamp Warning Out Circuit Failure				T														
C1222	Wheel Speed Mismatch				T														
C1233	Wheel Speed LF Input Signal Missing																		
C1296	Wheel Speed LF Signal Fault				T														
C1297	Wheel Speed RF Signal Fault				T														
C1298	Wheel Speed RR Signal Fault				T														
C1299	Wheel Speed LR Signal Fault				T														
C1943	Airbag Deployment Indication Input Fault																D		
C1994	ESP Continuous Operation Fault																D		
Network - Electrical																			
U0001	High Speed CAN Communication Bus	G		T		D	d	d				F*				D			
U0002	High Speed CAN Communication Bus Performance			T*		D	d	d											
U0003	High Speed CAN Communication Bus (+) Open																		
U0004	High Speed CAN Communication Bus (+) Low																		
U0005	High Speed CAN Communication Bus (+) High																		
U0006	High Speed CAN Communication Bus (-) Open																		
U0007	High Speed CAN Communication Bus (-) Low																		
U0008	High Speed CAN Communication Bus (-) High																		
U0009	High Speed CAN Communication Bus (-) shorted to Bus (+)																		
U0010	Medium Speed CAN Communication Bus																		
U0011	Medium Speed CAN Communication Bus Performance																		
U0012	Medium Speed CAN Communication Bus (+) Open																		
U0013	Medium Speed CAN Communication Bus (+) Low																		
U0014	Medium Speed CAN Communication Bus (+) High																		
U0015	Medium Speed CAN Communication Bus (-) Open																		
U0016	Medium Speed CAN Communication Bus (-) Low																		
U0017	Medium Speed CAN Communication Bus (-) High																		
U0018	Medium Speed CAN Communication Bus (-) shorted to Bus (+)																		
U0019	Low Speed CAN Communication Bus																		
U0020	Low Speed CAN Communication Bus Performance																		
U0021	Low Speed CAN Communication Bus (+) Open																		
U0022	Low Speed CAN Communication Bus (+) Low																		
U0023	Low Speed CAN Communication Bus (+) High																		
U0024	Low Speed CAN Communication Bus (-) Open																		
U0025	Low Speed CAN Communication Bus (-) Low																		
U0026	Low Speed CAN Communication Bus (-) High																		
U0027	Low Speed CAN Communication Bus (-) shorted to Bus (+)																		
U0028	Vehicle Communication Bus A						D	d	d										
U0029	Vehicle Communication Bus "A" Performance						D	d	d										
U0030	Vehicle Communication Bus "A" (+) Open																		
U0031	Vehicle Communication Bus "A" (+) Low																		
U0032	Vehicle Communication Bus "A" (+) High																		
U0033	Vehicle Communication Bus "A" (-) Open																		
U0034	Vehicle Communication Bus "A" (-) Low																		
U0035	Vehicle Communication Bus "A" (-) High																		
U0036	Vehicle Communication Bus "A" (-) shorted to Bus "A" (+)																		
U0037	Vehicle Communication Bus "B"						D	d	d										
U0038	Vehicle Communication Bus "B" Performance																		
U0039	Vehicle Communication Bus "B" (+) Open																		
U0040	Vehicle Communication Bus "B" (+) Low																		
U0041	Vehicle Communication Bus "B" (+) High																		
U0042	Vehicle Communication Bus "B" (-) Open																		

OBD-II Diagnostic Trouble Code Definitions		North America										Europe			Australia		SAE J1930 Component/ System and I/O Type				
		Spark Ignition PCM	KOEO		Continuous		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition	Diesel		Spark Ignition					
	* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used	Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER					Continuous	KOEO	KOER	Continuous	KOEO	KOER	
	Capital and small usage letters are used for visual impact only! Mazda, Nissan and Land Rover legacy DTCs are for reference. Ford P/T was not responsible for assigning these DTCs. Shading indicates change from previous version.																				A = Analog D = Digital F = Frequency I = Input O = Output
U0043	Vehicle Communication Bus "B" (-) Low																				
U0044	Vehicle Communication Bus "B" (-) High																				
U0045	Vehicle Communication Bus "B" (-) shorted to Bus "B" (+)																				
U0046	Vehicle Communication Bus C																				
U0047	Vehicle Communication Bus "C" Performance																				
U0048	Vehicle Communication Bus "C" (+) Open																				
U0049	Vehicle Communication Bus "C" (+) Low																				
U0050	Vehicle Communication Bus "C" (+) High																				
U0051	Vehicle Communication Bus "C" (-) Open																				
U0052	Vehicle Communication Bus "C" (-) Low																				
U0053	Vehicle Communication Bus "C" (-) High																				
U0054	Vehicle Communication Bus "C" (-) shorted to Bus "C" (+)																				
U0055	Vehicle Communication Bus "D"																				
U0056	Vehicle Communication Bus "D" Performance																				
U0057	Vehicle Communication Bus "D" (+) Open																				
U0058	Vehicle Communication Bus "D" (+) Low																				
U0059	Vehicle Communication Bus "D" (+) High																				
U0060	Vehicle Communication Bus "D" (-) Open																				
U0061	Vehicle Communication Bus "D" (-) Low																				
U0062	Vehicle Communication Bus "D" (-) High																				
U0063	Vehicle Communication Bus "D" (-) shorted to Bus "D" (+)																				
U0064	Vehicle Communication Bus "E"																				
U0065	Vehicle Communication Bus "E" Performance																				
U0066	Vehicle Communication Bus "E" (+) Open																				
U0067	Vehicle Communication Bus "E" (+) Low																				
U0068	Vehicle Communication Bus "E" (+) High																				
U0069	Vehicle Communication Bus "E" (-) Open																				
U0070	Vehicle Communication Bus "E" (-) Low																				
U0071	Vehicle Communication Bus "E" (-) High																				
U0072	Vehicle Communication Bus "E" (-) shorted to Bus "E" (+)																				
U0073	Control Module Communication Bus "A" Off				T*		D*			M											
U0074	Control Module Communication Bus "B" Off																				
U0075																					
U0076																					
U0077																					
U0078																					
U0079																					
U0080																					
U0081																					
U0082																					
U0083																					
U0084																					
U0085																					
U0086																					
U0087																					
U0088																					
U0089																					
U0090																					
U0091																					
U0092																					
U0093																					
U0094																					
U0095																					
U0096																					
U0097																					
U0098																					
U0099																					
	Network - Communication																				
U0100	Lost Communication With ECM / PCM A				T*		D*	d		M											ECM
U0101	Lost Communication with TCM		G*				D*	d	d	M*		E									TCM
U0102	Lost Communication with Transfer Case Control Module				T					M											TCCM
U0103	Lost Communication With Gear Shift Control Module A				T																GSM

OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type					
		Spark Ignition PCM		Standalone TCM		Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition		Diesel	Spark Ignition								
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER					Continuous	KOEO	KOER	Continuous	KOEO	KOER			
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U0104	Lost Communication With Cruise Control Module																						CCM
U0105	Lost Communication With Fuel Injector Control Module								D	d	d												FICM
U0106	Lost Communication With Glow Plug Control Module																						GPCM
U0107	Lost Communication With Throttle Actuator Control Module																						TACM
U0108	Lost Communication With Alternative Fuel Control Module	G*												E*									AFCM
U0109	Lost Communication With Fuel Pump Control Module	G	g	g																			FPCM
U010A	Lost Communication With Exhaust Gas Recirculation Control Module "A"																						
P010B	Lost Communication With Exhaust Gas Recirculation Control Module "B"																						
U010C	Lost Communication With Turbocharger/Supercharger Control Module "A"																						
U010D	Lost Communication With Turbocharger/Supercharger Control Module "B"																						
U010E	Lost Communication With Reductant Control Module																						
U010F	Lost Communication With Air Conditioning Control Module																						
U0110	Lost Communication With Drive Motor Control Module "A"																						DMCM
U0111	Lost Communication With Battery Energy Control Module "A"	G			T																		BECM
U0112	Lost Communication With Battery Energy Control Module "B"																						BECM
U0113	Lost Communication With Emissions Critical Control Information				T																		
U0114	Lost Communication with Four-Wheel Drive Clutch Control Module										M												
U0115	Lost Communication With ECM / PCM B																						
U0116	Lost Communication With Coolant Temperature Control Module																						
U0117	Lost Communication With PTO Control Module																						
U0118	Lost Communication With Fuel Additive Control Module																						
U0119	Lost Communication With Fuel Cell Control Module																						
U011A	Lost Communication With Exhaust Gas Sensor Module																						
U011B	Lost Communication With Rocker Arm Control Module A																						
U011C	Lost Communication With Rocker Arm Control Module B																						
U011D	Lost Communication With All Wheel Drive Control Module																						
U011E																							
U011F																							
U0120	Lost Communication With Starter / Generator Control Module										M												
U0121	Lost Communication With Anti-Lock Brake System (ABS) Control Module	G			T			D	d	M*			E*		D								ABSCM
U0122	Lost Communication With Vehicle Dynamics Control Module										M*		E										VDCM
U0123	Lost Communication With Yaw Rate Sensor Module										M*												YRS
U0124	Lost Communication With Lateral Acceleration Sensor Module																						LAS
U0125	Lost Communication With Multi-axis Acceleration Sensor Module																						MAS
U0126	Lost Communication With Steering Angle Sensor Module										M												SAS
U0127	Lost Communication With Tire Pressure Monitor Module																						TPM
U0128	Lost Communication With Park Brake Control Module																						PBCM
U0129	Lost Communication With Brake System Control Module	G			T																		BSCM
U012A																							
U012B																							
U012C																							
U012D																							
U012E																							
U012F																							
U0130	Lost Communication With Steering Effort Control Module																						SECM
U0131	Lost Communication With Power Steering Control Module										M												PSCM
U0132	Lost Communication With Suspension Control Module A																						RLCM
U0133	Lost Communication With Active Roll Control Module																						
U0134	Lost Communication With Power Steering Control Module - Rear																						
U0135	Lost Communication With Differential Control Module - Front																						
U0136	Lost Communication With Differential Control Module - Rear																						
U0137	Lost Communication With Trailer Brake Control Module										D	d											
U0138	Lost Communication with All Terrain Control Module																						
U0139	Lost Communication With Suspension Control Module B																						
U0140	Lost Communication With Body Control Module																						BCM
U0141	Lost Communication With Body Control Module "A"																						BCM
U0142	Lost Communication With Body Control Module "B"																						BCM
U0143	Lost Communication With Body Control Module "C"																						BCM
U0144	Lost Communication With Body Control Module "D"																						BCM
U0145	Lost Communication With Body Control Module "E"																						BCM
U0146	Lost Communication With Gateway "A"																						
U0147	Lost Communication With Gateway "B"																						



OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type				
		Spark Ignition PCM																				
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER												
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U0148	Lost Communication With Gateway "C"																					
U0149	Lost Communication With Gateway "D"																					
U0150	Lost Communication With Gateway "E"																					
U0151	Lost Communication With Restraints Control Module	G						D	d												RCM	
U0152	Lost Communication With Side Restraints Control Module - Left																					SRCM - Left
U0153	Lost Communication With Side Restraints Control Module - Right																					SRCM - Right
U0154	Lost Communication with Restraints Occupant Classification System Module																					ROSCM
U0155	Lost Communication With Instrument Panel Cluster (IPC) Control Module	G*		T				D*	d	d	M*			E		D						IPCCM
U0156	Lost Communication With Information Center "A"																					
U0157	Lost Communication With Information Center "B"																					
U0158	Lost Communication With Head Up Display																					HUD
U0159	Lost Communication With Parking Assist Control Module A																					PACM
U0160	Lost Communication With Audible Alert Control Module																					AACM
U0161	Lost Communication With Compass Module																					
U0162	Lost Communication With Navigation Display Module																					NDM
U0163	Lost Communication With Navigation Control Module																					NCM
U0164	Lost Communication With HVAC Control Module																					HVACCM
U0165	Lost Communication With HVAC Control Module - Rear																					HVACCM Rear
U0166	Lost Communication With Auxiliary Heater Control Module							D	d													AHCM
U0167	Lost Communication With Vehicle Immobilizer Control Module																					VICM
U0168	Lost Communication With Vehicle Security Control Module																					VSCM
U0169	Lost Communication With Sunroof Control Module																					SCM
U016A	Lost Communication With Global Positioning System Module																					
U0170	Lost Communication With "Restraints System Sensor A"																					
U0171	Lost Communication With "Restraints System Sensor B"																					
U0172	Lost Communication With "Restraints System Sensor C"																					
U0173	Lost Communication With "Restraints System Sensor D"																					
U0174	Lost Communication With "Restraints System Sensor E"																					
U0175	Lost Communication With "Restraints System Sensor F"																					
U0176	Lost Communication With "Restraints System Sensor G"																					
U0177	Lost Communication With "Restraints System Sensor H"																					
U0178	Lost Communication With "Restraints System Sensor I"																					
U0179	Lost Communication With "Restraints System Sensor J"																					
U017A	Lost Communication With "Restraints System Sensor K"																					
U017B	Lost Communication With "Restraints System Sensor L"																					
U017C	Lost Communication With "Restraints System Sensor M"																					
U017D	Lost Communication With "Restraints System Sensor N"																					
U017E	Lost Communication With Seatbelt Pretensioner Module "A"																					
U017F	Lost Communication With Seatbelt Pretensioner Module "B"																					
U0180	Lost Communication With Automatic Lighting Control Module																					
U0181	Lost Communication With Headlamp Leveling Control Module																					
U0182	Lost Communication With Lighting Control Module - Front																					
U0183	Lost Communication With Lighting Control Module - Rear A																					
U0184	Lost Communication With Radio																					
U0185	Lost Communication With Antenna Control Module																					
U0186	Lost Communication With Audio Amplifier A																					
U0187	Lost Communication With Digital Disc Player/Changer Module A																					
U0188	Lost Communication With Digital Disc Player/Changer Module B																					
U0189	Lost Communication With Digital Disc Player/Changer Module C																					
U0190	Lost Communication With Digital Disc Player/Changer Module D																					
U0191	Lost Communication With Television																					
U0192	Lost Communication With Personal Computer																					
U0193	Lost Communication With Digital Audio Control Module A																					
U0194	Lost Communication With Digital Audio Control Module B																					
U0195	Lost Communication With Subscription Entertainment Receiver Module																					
U0196	Lost Communication With Entertainment Control Module - Rear A																					
U0197	Lost Communication With Telephone Control Module																					
U0198	Lost Communication With Telematic Control Module																					
U0199	Lost Communication With Door Control Module A																					
U0200	Lost Communication With Door Control Module B																					
U0201	Lost Communication With Door Control Module C																					
U0202	Lost Communication With Door Control Module D																					

OBD-II Diagnostic Trouble Code Definitions		North America										Europe			Australia		SAE J1930 Component/ System and I/O Type				
		Spark Ignition PCM																			
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U0203	Lost Communication With Door Control Module E																				
U0204	Lost Communication With Door Control Module F																				
U0205	Lost Communication With Door Control Module G																				
U0206	Lost Communication With Folding Top Control Module																				
U0207	Lost Communication With Moveable Roof Control Module																				
U0208	Lost Communication With Seat Control Module A																				
U0209	Lost Communication With Seat Control Module B																				
U0210	Lost Communication With Seat Control Module C																				
U0211	Lost Communication With Seat Control Module D																				
U0212	Lost Communication With Steering Column Control Module																				
U0213	Lost Communication With Mirror Control Module																				
U0214	Lost Communication With Remote Function Actuation																				
U0215	Lost Communication With Door Switch A																				
U0216	Lost Communication With Door Switch B																				
U0217	Lost Communication With Door Switch C																				
U0218	Lost Communication With Door Switch D																				
U0219	Lost Communication With Door Switch E																				
U0220	Lost Communication With Door Switch F																				
U0221	Lost Communication With Door Switch G																				
U0222	Lost Communication With Door Window Motor A																				
U0223	Lost Communication With Door Window Motor B																				
U0224	Lost Communication With Door Window Motor C																				
U0225	Lost Communication With Door Window Motor D																				
U0226	Lost Communication With Door Window Motor E																				
U0227	Lost Communication With Door Window Motor F																				
U0228	Lost Communication With Door Window Motor G																				
U0229	Lost Communication With Heated Steering Wheel Module																				
U0230	Lost Communication With Rear Gate Module																				
U0231	Lost Communication With Rain Sensing Module																				
U0232	Lost Communication With Side Obstacle Detection Control Module - Left																				
U0233	Lost Communication With Side Obstacle Detection Control Module - Right																				
U0234	Lost Communication With Convenience Recall Module																				
U0235	Lost Communication With Cruise Control Front Distance Range Sensor																				
U0236	Lost Communication With Column Lock Module																				
U0237	Lost Communication With Digital Audio Control Module C																				
U0238	Lost Communication With Digital Audio Control Module D																				
U0239	Lost Communication With Entrapment Control Module A																				
U023A	Lost Communication With Image Processing Module A																				
U023B	Lost Communication With Image Processing Module B																				
U023C	Lost Communication With Image Processing Module C																				
U023D																					
U023E																					
U023F																					
U0240	Lost Communication With Entrapment Control Module B																				
U0241	Lost Communication With Headlamp Control Module A																				
U0242	Lost Communication With Headlamp Control Module B																				
U0243	Lost Communication With Parking Assist Control Module B																				
U0244	Lost Communication With Running Board Control Module A																				
U0245	Lost Communication With Entertainment Control Module - Front																				
U0246	Lost Communication With Seat Control Module E																				
U0247	Lost Communication With Seat Control Module F																				
U0248	Lost Communication with Remote Accessory Module																				
U0249	Lost Communication With Entertainment Control Module - Rear B																				
U024A	Lost Communication With Interior Lighting Control Module																				
U0250	Lost Communication With Impact Classification System Module																				
U0251	Lost Communication With Running Board Control Module B																				
U0252	Lost Communication With Lighting Control Module - Rear B																				
U0253	Lost Communication With Accessory Protocol Interface Module																				
U0254	Lost Communication With Remote Start Module																				
U0255	Lost Communication With Front Display Interface Module																				
U0256	Lost Communication With Front Controls Interface Module A																				
U0257	Lost Communication With Front Controls / Display Interface Module																				

OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type
		Spark Ignition PCM																
* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used		Continuous	KOEO	KOER	Continuous	KOEO	KOER	Continuous	KOEO	KOER								
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U0258	Lost Communication With Radio Transceiver																	
U0259	Lost Communication With Special Purpose Vehicle Control Module A																	
U025A	Lost Communication With Special Purpose Vehicle Control Module B																	
U025B	Lost Communication With Special Purpose Vehicle Control Module C																	
U025C	Lost Communication With Special Purpose Vehicle Control Module D																	
U025D	Lost Communication With Front Controls Interface Module B																	
U025E																		
U025F																		
U0260	Lost Communication With Seat Control Switch Module A																	
U0261	Lost Communication With Seat Control Switch Module B																	
U0262	Lost Communication With Audio Amplifier B																	
U0263	Lost Communication With Speech Recognition Module																	
U0264	Lost Communication With Camera Module - Rear																	
U0265																		
U0266																		
U0267																		
U0268																		
U0269																		
U0270																		
U0271																		
U0272																		
U0273																		
U0274																		
U0275																		
U0276																		
U0277																		
U0278																		
U0279																		
U0280																		
U0281																		
U0282																		
U0283																		
U0284																		
U0285																		
U0286	Lost Communication With Radiator Anti Tamper Device																	
U0287	Lost Communication with Transmission Fluid Pump Module																	
U0288	Lost Communication With DC to AC Converter Control Module "A"																	
U0289	Lost Communication With DC to AC Converter Control Module "B"																	
U0290																		
U0291	Lost Communication With Gear Shift Control Module "B"																	
U0292	Lost Communication With Drive Motor Control Module "B"																	
U0293	Lost Communication with Hybrid Powertrain Control Module																	
U0294	Lost Communication with Powertrain Control Monitor Module						T											
U0295	Lost Communication with AC to AC Converter Control Module																	
U0296	Lost Communication with AC to DC Converter Control Module "A"																	
U0297	Lost Communication with AC to DC Converter Control Module "B"																	
U0298	Lost Communication with DC to DC Converter Control Module "A"																	
U0299	Lost Communication with DC to DC Converter Control Module "B"																	
U029A	Lost Communication with Hybrid Battery Pack Sensor Module																	
U029B	Lost Communication With Drive Motor Control Module "C"																	
U029C	Lost Communication With Drive Motor Control Module "D"																	
U029D	Lost Communication With NOx Sensor "A"																	
U029E	Lost Communication With NOx Sensor "B"																	
U029F																		
Network - Software Incompatibility																		
U0300	Internal Control Module Software Incompatibility	G*	g	g														
U0301	Software Incompatibility with Engine/Powertrain Control Module					T												
U0302	Software Incompatibility with Transmission Control Module								D	d	d	M						
U0303	Software Incompatibility with Transfer Case Control Module																	
U0304	Software Incompatibility with Gear Shift Control Module "A"																	
U0305	Software Incompatibility with Cruise Control Module																	
U0306	Software Incompatibility with Fuel Injector Control Module								D	d	d							

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U0307	Software Incompatibility with Glow Plug Control Module																							
U0308	Software Incompatibility with Throttle Actuator Control Module																							
U0309	Software Incompatibility with Alternative Fuel Control Module	G*																						
U0310	Software Incompatibility with Fuel Pump Control Module																							
U0311	Software Incompatibility with Drive Motor Control Module																							
U0312	Software Incompatibility with Battery Energy Control Module A																							
U0313	Software Incompatibility with Battery Energy Control Module B																							
U0314	Software Incompatibility with Four-Wheel Drive Clutch Control Module																							
U0315	Software Incompatibility with Anti-Lock Brake System Control Module																							
U0316	Software Incompatibility with Vehicle Dynamics Control Module																							
U0317	Software Incompatibility with Park Brake Control Module																							
U0318	Software Incompatibility with Brake System Control Module																							
U0319	Software Incompatibility with Steering Effort Control Module																							
U0320	Software Incompatibility with Power Steering Control Module																							
U0321	Software Incompatibility with Suspension Control Module A																							
U0322	Software Incompatibility with Body Control Module																							
U0323	Software Incompatibility with Instrument Panel Control Module																							
U0324	Software Incompatibility with HVAC Control Module																							
U0325	Software Incompatibility with Auxiliary Heater Control Module																							
U0326	Software Incompatibility with Vehicle Immobilizer Control Module																							
U0327	Software Incompatibility with Vehicle Security Control Module																							
U0328	Software Incompatibility with Steering Angle Sensor Module																							
U0329	Software Incompatibility with Steering Column Control Module																							
U0330	Software Incompatibility with Tire Pressure Monitor Module																							
U0331	Software Incompatibility with Body Control Module A																							
U0332	Software Incompatibility with Multi-axis Acceleration Sensor Module																							
U0333	Software Incompatibility with Gear Shift Control Module B																							
U0334	Software Incompatibility with Radio																							
U0335	Software Incompatibility with Hybrid Battery Pack Sensor Module																							
U0336	Software Incompatibility with Restraints Control Module																							
Network - Data																								
U0400	Invalid Data Received																							
U0401	Invalid Data Received from ECM/PCM A					T*																		
U0402	Invalid Data Received from TCM								D	d														
U0403	Invalid Data Received from Transfer Case Control Module																							
U0404	Invalid Data Received from Gear Shift Control Module A																							
U0405	Invalid Data Received from Cruise Control Module																							
U0406	Invalid Data Received from Fuel Injector Control Module																							
U0407	Invalid Data Received from Glow Plug Control Module																							
U0408	Invalid Data Received from Throttle Actuator Control Module																							
U0409	Invalid Data Received from Alternative Fuel Control Module																							
U040A	Invalid Data Received from Air Conditioning Control Module														E*									
U040B	Invalid Data Received from Exhaust Gas Recirculation Control Module A																							
U040C	Invalid Data Received from Exhaust Gas Recirculation Control Module B																							
U040D	Invalid Data Received from Turbocharger/Supercharger Control Module A																							
U040E	Invalid Data Received from Turbocharger/Supercharger Control Module B																							
U040F	Invalid Data Received from Reductant Control Module																							
U0410	Invalid Data Received from Fuel Pump Control Module																							
U0411	Invalid Data Received from Drive Motor Control Module A																							
U0412	Invalid Data Received from Battery Energy Control Module A																							
U0413	Invalid Data Received from Battery Energy Control Module B																							
U0414	Invalid Data Received from Four-Wheel Drive Clutch Control Module																							
U0415	Invalid Data Received from Anti-Lock Brake System (ABS) Control Module					T*																		
U0416	Invalid Data Received from Vehicle Dynamics Control Module																							
U0417	Invalid Data Received from Park Brake Control Module																							
U0418	Invalid Data Received from Brake System Control Module					G																		
U0419	Invalid Data Received from Steering Effort Control Module																							
U041A																								







OBD-II Diagnostic Trouble Code Definitions		North America										Europe				Australia		SAE J1930 Component/ System and I/O Type						
		Spark Ignition PCM																						
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U0566																								
U0567																								
U0568																								
U0569																								
U0570																								
U0571																								
U0572																								
U0573																								
U0574																								
U0575																								
U0576																								
U0577																								
U0578																								
U0579																								
U0580																								
U0581																								
U0582																								
U0583																								
U0584																								
U0585																								
U0586																								
U0587	Invalid Data Received From With Radiator Anti Tamper Device																							
U0588	Invalid Data Received From Transmission Fluid Pump Module																							
U0589	Invalid Data Received From DC to AC Converter Control Module A																							
U058A	Invalid Data Received From DC to AC Converter Control Module B																							
U0590																								
U0591																								
U0592	Invalid Data Received From Gear Shift Control Module "B"																							
U0593	Invalid Data Received From Drive Motor Control Module "B"																							
U0594	Invalid Data Received From Hybrid Powertrain Control Module																							
U0595	Invalid Data Received From Powertrain Control Monitor Module																							
U0596	Invalid Data Received From AC to AC Converter Control Module																							
U0597	Invalid Data Received From AC to DC Converter Control Module "A"																							
U0598	Invalid Data Received From AC to DC Converter Control Module "B"																							
U0599	Invalid Data Received From DC to DC Converter Control Module "A"																							
U059A	Invalid Data Received From DC to DC Converter Control Module "B"																							
U059B	Invalid Data Received From Hybrid Battery Pack Sensor Module																							
U059C	Invalid Data Received from Drive Motor Control Module "C"																							
U059D	Invalid Data Received from Drive Motor Control Module "D"																							
U059E	Invalid Data Received from NOx Sensor "A"																							
U059F	Invalid Data Received from NOx Sensor "B"																							
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				D*																
U1041	SCP (J1850) Invalid or Missing Data for Vehicle Speed																							
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																				
U1089	SCP (J1850) Invalid or Missing Data for Suspension																							
U1098	SCP (J1850) Invalid or Missing Data for Vehicle Speed Control																							
U1130	SCP (J1850) Invalid or Missing Data for Fuel System																							
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																				
U1147	SCP (J1850) Invalid or Missing Data for Vehicle Security																							
U1243	SCP (J1850) Invalid or Missing Data for Exterior Environment																							
U1262	SCP (J1850) Communication Bus Fault																							
U1341	SCP (J1850) Invalid or Missing Data for Function Read Vehicle Speed																							
U1451	SCP (J1850) Invalid or Missing Data From Anti-Theft Module, Vehicle Immobilized		g													e								
U1900	CAN Communication Bus Fault - Receive Error	G			T									E	e	e	D							
U2015	SCP (J1850) Invalid or Missing Data From NGV Module	G*	g	g																				
U2023	Fault Received From External Node				T																			



OBD-II Diagnostic Trouble Code Definitions		North America										Europe			Australia			SAE J1930 Component/ System and I/O Type	
		Spark Ignition PCM	KOE		KOER		Standalone TCM	Diesel PCM		Mazda	Jaguar	Land Rover	Nissan	Spark Ignition	Diesel		Spark Ignition		KOE
	* = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light illuminates, [ ] = assigned but not used	Continuous	KOE	KOER	Continuous	KOE	KOER	Continuous	KOE	KOER				Continuous	KOE	KOER	Continuous	KOE	KOER
U2050	No application present	G																	
U2051	One or More Calibration Files Missing / Corrupt				T														
U2064	Warning Indicator Requested by Another Control Module																		
U210B	Lost Communication Between Fuel Pump Control Module and Restraints Control Module	G	g	g															
U2195	SCP (J1850) Invalid Data from SCLM (Steering Column Switches)																		
Control Module / Power Distribution																			
U3000	Control Module																		
U3001	Control Module Improper Shutdown																		
U3002	Vehicle Identification Number																		
U3003	Battery Voltage																		
U3004	Accessory Power Relay																		
U3005	Retained Accessory Power																		
U3006	Control Module Input Power A																		
U3007	Control Module Input Power B																		
U3008	Control Module Ground A																		
U3009	Control Module Ground B																		
U300A	Ignition Switch																		
U300B	Ignition Input Accessory/On/Start																		
U300C	Ignition Input Off/On/Start																		
U300D	Ignition Input On/Start																		
U300E	Ignition Input On																		
U300F	Ignition Input Accessory																		
U3010	Ignition Input Start																		
U3011	Ignition Input Off																		