

MEFI-5D DTC LIST

11/6/2019
3:37 PM

29-Jan-09					
Enumeration Name	SPN	FMI	No Disable	Not X-out-of-Y	
DTC_SPN_NoCode	0				
DTC_FMI_NoCode		0			
DTC_SPN_BaroSensor	108				
DTC_FMI_BaroSensorCorrelation		2			
DTC_FMI_BaroSensorHigh		3			
DTC_FMI_BaroSensorLow		4			
DTC_FMI_BaroSensorStability		10			
DTC_SPN_BoostControl	66035				
DTC_FMI_BoostControlExceedLimit		0			
DTC_FMI_BoostControlAccuracy		7			
DTC_FMI_BoostControlShortHigh		3			
DTC_FMI_BoostControlShortLowOrOpen		5			
DTC_SPN_BuzzerDriver	66007				
DTC_FMI_BuzzerDriverShortHigh		3			
DTC_FMI_BuzzerDriverShortLowOrOpen		5			
DTC_SPN_CalMemory	630		X	X	
DTC_FMI_CalMemoryFailure		13			
DTC_SPN_CamPhaserW	65570				
DTC_SPN_CamPhaserX	65571				
DTC_SPN_CamPhaserY	65572				
DTC_SPN_CamPhaserZ	65573				
DTC_FMI_CamPhaserAccuracy		7			
DTC_FMI_CamPhaserRefAngle		2			
DTC_FMI_CamPhaserShortHighOrOpen		5			
DTC_FMI_CamPhaserShortLow		4			
DTC_SPN_CamSensorW	65723				
DTC_SPN_CamSensorX	65724				
DTC_SPN_CamSensorY	65725				
DTC_SPN_CamSensorZ	65726				
DTC_FMI_CamAngleOutOfRange		7			
DTC_FMI_CamSyncFault		2			
DTC_FMI_CamSignalMissing		8			
DTC_SPN_CanBusGovCmd	65560			X	
DTC_FMI_CanBusGovCmdLost		9			
DTC_SPN_CanBusHardware	65559				
DTC_FMI_CanBusHardwareFault		11			
DTC_SPN_CanisterPurge	66015				
DTC_FMI_CanisterPurgeShortHigh		3			
DTC_FMI_CanisterPurgeShortLowOrOpen		5			
DTC_SPN_Cat_A_Efficiency	65675			X	
DTC_SPN_Cat_B_Efficiency	65676			X	
DTC_FMI_CatFailure		11			
DTC_SPN_Cat_A_Exotherm	65677				
DTC_SPN_Cat_B_Exotherm	65678				
DTC_FMI_CatFailure		11			
DTC_SPN_Cat_A_TempSensor	65671				
DTC_SPN_Cat_B_TempSensor	65672				
DTC_FMI_CatTempSensorHigh		3			
DTC_FMI_CatTempSensorLow		4			
DTC_FMI_CatTempSensorSkewedHigh		0			
DTC_FMI_CatTempSensorSkewedLow		1			
DTC_SPN_Cat_A_TempWarn	65673				
DTC_SPN_Cat_B_TempWarn	65674				
DTC_FMI_CatTempHighWarn		15			
DTC_SPN_CoolantTempSensor	110				
DTC_FMI_CoolantTempSensorHigh		3			
DTC_FMI_CoolantTempSensorLow		4			
DTC_SPN_CoolantTempWarn	110				
DTC_FMI_CoolantTempHighWarn		15			
DTC_SPN_Cpu	65580		X	X	
DTC_FMI_CpuFailure		12			
DTC_SPN_CrankSensor	636				
DTC_FMI_ExcessiveCrankReSync		2			
DTC_FMI_CrankSyncFault		8			
DTC_SPN_DtcLamp1	66008				
DTC_FMI_DtcLamp1ShortHigh		3			
DTC_FMI_DtcLamp1ShortLowOrOpen		5			
DTC_SPN_DtcLamp2	66009				
DTC_FMI_DtcLamp2ShortHigh		3			
DTC_FMI_DtcLamp2ShortLowOrOpen		5			

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DTC_SPN_DtcLamp3	66006			
DTC_FMI_DtcLamp3ShortHigh		3		
DTC_FMI_DtcLamp3ShortLowOrOpen		5		
DTC_SPN_Egr	66016			
DTC_FMI_EgrAccuracy		7		
DTC_FMI_EgrShortHighOrOpen		5		
DTC_FMI_EgrShortLow		4		
DTC_SPN_EmergencyStopWarn	65710			X
DTC_FMI_EmergencyStopWarn		31		
DTC_SPN_Est1	65541			
DTC_SPN_Est2	65542			
DTC_SPN_Est3	65543			
DTC_SPN_Est4	65544			
DTC_SPN_Est5	65545			
DTC_SPN_Est6	65546			
DTC_SPN_Est7	65547			
DTC_SPN_Est8	65548			
DTC_FMI_EstShortHighOrOpen		5		
DTC_FMI_EstShortLow		4		
DTC_SPN_EtcActuation	65615		X	
DTC_FMI_EtcActuationFault		7		
DTC_SPN_EtcPps1	65605		X	
DTC_FMI_EtcPps1AdConversion		12		
DTC_FMI_EtcPps1Range		2		
DTC_SPN_EtcPps12Correlation	65613		X	
DTC_FMI_EtcPps12CorrelationFault		2		
DTC_SPN_EtcPps2	65604		X	
DTC_FMI_EtcPps2AdConversion		12		
DTC_FMI_EtcPps2Range		2		
DTC_SPN_EtcProcess	65616		X	X
DTC_FMI_EtcProcessFault		12		
DTC_SPN_EtcReturn	65618		X	X
DTC_FMI_EtcReturnFault		7		
DTC_SPN_EtcTps1	65602		X	
DTC_FMI_EtcTps1Range		2		
DTC_SPN_EtcTps12Correlation	65610		X	
DTC_FMI_EtcTps12CorrelationFault		2		
DTC_SPN_EtcTps2	65601		X	
DTC_FMI_EtcTps2Range		2		
DTC_SPN_FuelLevelSensor1	96			
DTC_SPN_FuelLevelSensor2	38			
DTC_FMI_FuelLevelSensorHigh		3		
DTC_FMI_FuelLevelSensorLow		4		
DTC_SPN_FuelPressSensor	94			
DTC_FMI_FuelPressSensorHigh		3		
DTC_FMI_FuelPressSensorLow		4		
DTC_SPN_FuelPressError	94			
DTC_FMI_FuelPressHighError		15		
DTC_FMI_FuelPressLowError		17		
DTC_SPN_FuelPump1Relay	66017			
DTC_FMI_FuelPump1RelayShortHighOrOpen		5		
DTC_FMI_FuelPump1RelayShortLow		4		
DTC_SPN_FuelPump2Relay	66025			
DTC_FMI_FuelPump2RelayShortHighOrOpen		5		
DTC_FMI_FuelPump2RelayShortLow		4		
DTC_SPN_FuelTempSensor	174			
DTC_FMI_FuelTempSensorHigh		3		
DTC_FMI_FuelTempSensorLow		4		
DTC_SPN_GeneralWarn1	65701			
DTC_FMI_GeneralWarn1		31		
DTC_SPN_GeneralWarn2	65702			
DTC_FMI_GeneralWarn2		31		
DTC_SPN_GovStatusLamp	66005			
DTC_FMI_GovStatusLampShortHigh		3		
DTC_FMI_GovStatusLampShortLowOrOpen		5		
DTC_SPN_Inj1	651			
DTC_SPN_Inj2	652			
DTC_SPN_Inj3	653			
DTC_SPN_Inj4	654			
DTC_SPN_Inj5	655			
DTC_SPN_Inj6	656			
DTC_SPN_Inj7	657			
DTC_SPN_Inj8	658			
DTC_FMI_InjShortHigh		3		

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DTC_FMI_InjShortLowOrOpen		5		
DTC_SPN_InterCoolerRelay	66030			
DTC_FMI_InterCoolerRelayShortHigh		3		
DTC_FMI_InterCoolerRelayShortLowOrOpen		5		
DTC_SPN_KnockCircuit	65550			
DTC_FMI_KnockCircuitFault		2		
DTC_SPN_KnockSensor1	65551			
DTC_SPN_KnockSensor2	65552			
DTC_FMI_KnockSensorFault		2		
DTC_SPN_MapSensor	106			
DTC_FMI_MapSensorCorrelation		2		
DTC_FMI_MapSensorHigh		3		
DTC_FMI_MapSensorLow		4		
DTC_FMI_MapSensorSkewedHigh		0		
DTC_FMI_MapSensorSkewedLow		1		
DTC_SPN_MatSensor	105			
DTC_FMI_MatSensorHigh		3		
DTC_FMI_MatSensorLow		4		
DTC_SPN_Mhc	65581			X
DTC_FMI_MhcFailure		12		
DTC_SPN_MilDriver	66003			
DTC_FMI_MilDriverShortHigh		3		
DTC_FMI_MilDriverShortLowOrOpen		5		
DTC_SPN_Misfire	65590			X
DTC_SPN_MisfireCyl1	65591			X
DTC_SPN_MisfireCyl2	65592			X
DTC_SPN_MisfireCyl3	65593			X
DTC_SPN_MisfireCyl4	65594			X
DTC_SPN_MisfireCyl5	65595			X
DTC_SPN_MisfireCyl6	65596			X
DTC_SPN_MisfireCyl7	65597			X
DTC_SPN_MisfireCyl8	65598			X
DTC_SPN_MisfireRandom	65599			X
DTC_FMI_Misfire		7		
DTC_SPN_NonEtcGovPwmInt	113			
DTC_FMI_NonEtcGovPwmIntHigh		7		
DTC_SPN_NonEtcTps	51			
DTC_FMI_NonEtcTpsHigh		3		
DTC_FMI_NonEtcTpsLow		4		
DTC_FMI_NonEtcTpsSkewedHigh		0		
DTC_SPN_NvRam	65582		X	X
DTC_FMI_NvRamFailure		2		
DTC_SPN_OemOutput1	66040			
DTC_FMI_OemOutput1ShortHigh		3		
DTC_FMI_OemOutput1ShortLowOrOpen		5		
DTC_SPN_OemOutput2	66041			
DTC_FMI_OemOutput2ShortHigh		3		
DTC_FMI_OemOutput2ShortLowOrOpen		5		
DTC_SPN_OemOutput3	66042			
DTC_FMI_OemOutput3ShortHigh		3		
DTC_FMI_OemOutput3ShortLowOrOpen		5		
DTC_SPN_OemOutput4	66043			
DTC_FMI_OemOutput4ShortHigh		3		
DTC_FMI_OemOutput4ShortLowOrOpen		5		
DTC_SPN_OilLevelWarn	98			
DTC_FMI_OilLevelLowWarn		17		
DTC_SPN_OilPressSensor	100			
DTC_FMI_OilPressSensorHigh		3		
DTC_FMI_OilPressSensorLow		4		
DTC_SPN_OilPressWarn	100			
DTC_FMI_OilPressLowWarn		17		
DTC_SPN_OilTempSensor	175			
DTC_FMI_OilTempSensorHigh		3		
DTC_FMI_OilTempSensorLow		4		
DTC_SPN_OilTempWarn	175			
DTC_FMI_OilTempHighWarn		15		
DTC_SPN_OxyFuelTrim_A	65565			X
DTC_SPN_OxyFuelTrim_B	65566			X
DTC_FMI_OxyFuelTrimHigh		0		
DTC_FMI_OxyFuelTrimLow		1		
DTC_SPN_OxyHeater_A1	66019			
DTC_SPN_OxyHeater_A2	66021			
DTC_SPN_OxyHeater_B1	66020			
DTC_SPN_OxyHeater_B2	66022			

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DTC_FMI_OxyHeaterShortHigh		3	
DTC_FMI_OxyHeaterShortLowOrOpen		5	
DTC_FMI_OxyHeaterDutyCycleHigh		8	
DTC_SPN_OxyResponse_A1	65567		X
DTC_SPN_OxyResponse_B1	65568		X
DTC_FMI_OxyResponseInsufficientSwitching		8	
DTC_FMI_OxyResponseSlow		10	
DTC_SPN_OxyVoltage_A1	65561		X
DTC_SPN_OxyVoltage_A2	65562		X
DTC_SPN_OxyVoltage_B1	65563		X
DTC_SPN_OxyVoltage_B2	65564		X
DTC_FMI_OxyVoltageOpen		5	
DTC_FMI_OxyVoltageLow		4	
DTC_FMI_OxyVoltagePeLow		1	
DTC_FMI_OxyVoltageHigh		3	
DTC_FMI_OxyVoltageDeHigh		0	
DTC_SPN_PowertrainRelayContact	66014		
DTC_FMI_PowertrainRelayContactLow		4	
DTC_SPN_PowertrainRelayDriver	66013		
DTC_FMI_PowertrainRelayDriverShortHigh		3	
DTC_FMI_PowertrainRelayDriverShortLowOrOpen		5	
DTC_SPN_ScipSensor	3563		
DTC_FMI_ScipSensorCorrelation		2	
DTC_FMI_ScipSensorHigh		3	
DTC_FMI_ScipSensorLow		4	
DTC_FMI_ScipSensorSkewedHigh		0	
DTC_FMI_ScipSensorSkewedLow		1	
DTC_SPN_ShiftInterrupt	66026		
DTC_FMI_ShiftInterruptFault		7	
DTC_SPN_SlowModeLamp	66010		
DTC_FMI_SlowModeLampShortHigh		3	
DTC_FMI_SlowModeLampShortLowOrOpen		5	
DTC_SPN_SpeedBasedOutput	66011		
DTC_FMI_SpeedBasedOutputShortHigh		3	
DTC_FMI_SpeedBasedOutputShortLowOrOpen		5	
DTC_SPN_SpeedSensor	84		
DTC_FMI_SpeedSensorAnalogHigh		3	
DTC_FMI_SpeedSensorAnalogLow		4	
DTC_FMI_SpeedSensorErratic		2	
DTC_FMI_SpeedSensorSkewedLow		1	
DTC_SPN_StarterRelayHSDriver	66002		
DTC_FMI_StarterRelayHSDriverShortHighOrOpen		5	
DTC_FMI_StarterRelayHSDriverShortLow		4	
DTC_SPN_StarterRelayLSDriver	66001		
DTC_FMI_StarterRelayLSDriverShortHigh		3	
DTC_FMI_StarterRelayLSDriverShortLowOrOpen		5	
DTC_SPN_SvsLamp	66004		
DTC_FMI_SvsLampShortHigh		3	
DTC_FMI_SvsLampShortLowOrOpen		5	
DTC_SPN_SystemVoltageWarn	627		
DTC_FMI_SystemVoltageHighWarn		15	
DTC_FMI_SystemVoltageLowWarn		17	
DTC_SPN_Tachometer	66018		
DTC_FMI_TachometerShortHigh		3	
DTC_FMI_TachometerShortLowOrOpen		5	
DTC_SPN_TransUpShiftOutput	66012		
DTC_FMI_TransUpShiftOutputShortHigh		3	
DTC_FMI_TransUpShiftOutputShortLowOrOpen		5	
DTC_SPN_V5Buff_A	65620		
DTC_SPN_V5Buff_B	65621		
DTC_FMI_V5BuffLow		4	
DTC_SPN_VarGov	65690		
DTC_FMI_VarGovHigh		3	
DTC_FMI_VarGovLow		4	
FAILURE MODE INDICATOR			
0 = Data valid but above normal			
1 = Data valid but below normal			
2 = Data erratic, intermittent or incorrect			
3 = Voltage above normal or shorted high			
4 = Voltage below normal or shorted low			
5 = Current below normal or open circuit			
6 = Current above normal or grounded circuit			
7 = Mechanical system not responding or out of adjustment			

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8 = Abnormal frequency or pulse width				
9 = Abnormal update rate				
10 = Abnormal rate of change				
11 = Root cause unknown				
12 = Bad intelligent device or component				
13 = Out of calibration				
14 = Special instructions				
15 = Data valid but above normal range - Least Severe Level				
16 = Data valid but above normal range - Moderate Severe Level				
17 = Data valid but below normal range - Least Severe Level				
18 = Data valid but below normal range - Moderate Severe Level				
19 = Received network data error				
20 = Reserved for SAE assignment				
21 = Reserved for SAE assignment				
22 = Reserved for SAE assignment				
23 = Reserved for SAE assignment				
24 = Reserved for SAE assignment				
25 = Reserved for SAE assignment				
26 = Reserved for SAE assignment				
27 = Reserved for SAE assignment				
28 = Reserved for SAE assignment				
29 = Reserved for SAE assignment				
30 = Reserved for SAE assignment				
31 = Not available				
LATEST CHANGE DATE	29-Jan-09			
CHANGE	DATE			
Added Oil Temp	29-Jan-09			
Changed FuelPressWarn to FuelPressError	12-Feb-08			
Changed FuelPump to FuelPump1	11-Feb-08			
Added Shift Interrupt Fault	22-Jan-08			
Added OemOutput	12-Dec-07			
Added CamAngleOutOfRange				
Added SpeedSensorErratic	8-Oct-07			
Added Fuel Pump 2	21-Aug-07			
Added BoostControl, Baro, and SCIP Dtcs, Changed inter cooler relay SPN number, Added MAP, SCIP, Baro Correlation, Changed InnerCooler to InterCooler; Added Cam Phaser Ref Angle FMI;	19-Jul-07			
Migrate MEFI-5B, Added InnerCooler, Corrected FMIs to match code	17-May-07			

J1939/73

MIL Lamp
Red Stop Lamp
Amber Warning Lamp
Protect Lamp

MEFI

MIL Lamp
RpmReductionStopEngineMode
SVS Lamp
DTC Lamp 1

DTC_SPN_NoCode	0
DTC_SPN_FuelLevelSensor2	38
DTC_SPN_NonEtcTps	51
DTC_SPN_SpeedSensor	84
DTC_SPN_FuelPressSensor	94
DTC_SPN_FuelPressError	94
DTC_SPN_FuelLevelSensor1	96
DTC_SPN_OilLevelWarn	98
DTC_SPN_OilPressSensor	100
DTC_SPN_OilPressWarn	100
DTC_SPN_MatSensor	105
DTC_SPN_MapSensor	106
DTC_SPN_BaroSensor	108
DTC_SPN_CoolantTempSensor	110
DTC_SPN_CoolantTempWarn	110
DTC_SPN_NonEtcGovPwmlnt	113
DTC_SPN_FuelTempSensor	174
DTC_SPN_OilTempSensor	175
DTC_SPN_OilTempWarn	175
DTC_SPN_SystemVoltageWarn	627
DTC_SPN_CalMemory	630
DTC_SPN_CrankSensor	636
DTC_SPN_Inj1	651
DTC_SPN_Inj2	652
DTC_SPN_Inj3	653
DTC_SPN_Inj4	654
DTC_SPN_Inj5	655
DTC_SPN_Inj6	656
DTC_SPN_Inj7	657
DTC_SPN_Inj8	658
DTC_SPN_ScipSensor	3563
DTC_SPN_Est1	65541
DTC_SPN_Est2	65542
DTC_SPN_Est3	65543
DTC_SPN_Est4	65544
DTC_SPN_Est5	65545
DTC_SPN_Est6	65546
DTC_SPN_Est7	65547
DTC_SPN_Est8	65548
DTC_SPN_KnockCircuit	65550
DTC_SPN_KnockSensor1	65551
DTC_SPN_KnockSensor2	65552
DTC_SPN_CanBusHardware	65559
DTC_SPN_CanBusGovCmd	65560
DTC_SPN_OxyVoltage_A1	65561
DTC_SPN_OxyVoltage_A2	65562
DTC_SPN_OxyVoltage_B1	65563
DTC_SPN_OxyVoltage_B2	65564
DTC_SPN_OxyFuelTrim_A	65565
DTC_SPN_OxyFuelTrim_B	65566
DTC_SPN_OxyResponse_A1	65567
DTC_SPN_OxyResponse_B1	65568

DTC_SPN_CamPhaserW	65570
DTC_SPN_CamPhaserX	65571
DTC_SPN_CamPhaserY	65572
DTC_SPN_CamPhaserZ	65573
DTC_SPN_Cpu	65580
DTC_SPN_Mhc	65581
DTC_SPN_NvRam	65582
DTC_SPN_Misfire	65590
DTC_SPN_MisfireCyl1	65591
DTC_SPN_MisfireCyl2	65592
DTC_SPN_MisfireCyl3	65593
DTC_SPN_MisfireCyl4	65594
DTC_SPN_MisfireCyl5	65595
DTC_SPN_MisfireCyl6	65596
DTC_SPN_MisfireCyl7	65597
DTC_SPN_MisfireCyl8	65598
DTC_SPN_MisfireRandom	65599
DTC_SPN_EtcTps2	65601
DTC_SPN_EtcTps1	65602
DTC_SPN_EtcPps2	65604
DTC_SPN_EtcPps1	65605
DTC_SPN_EtcTps12Correlation	65610
DTC_SPN_EtcPps12Correlation	65613
DTC_SPN_EtcActuation	65615
DTC_SPN_EtcProcess	65616
DTC_SPN_EtcReturn	65618
DTC_SPN_V5Buff_A	65620
DTC_SPN_V5Buff_B	65621
DTC_SPN_Cat_A_TempSensor	65671
DTC_SPN_Cat_B_TempSensor	65672
DTC_SPN_Cat_A_TempWarn	65673
DTC_SPN_Cat_B_TempWarn	65674
DTC_SPN_Cat_A_Efficiency	65675
DTC_SPN_Cat_B_Efficiency	65676
DTC_SPN_Cat_A_Exotherm	65677
DTC_SPN_Cat_B_Exotherm	65678
DTC_SPN_VarGov	65690
DTC_SPN_GeneralWarn1	65701
DTC_SPN_GeneralWarn2	65702
DTC_SPN_EmergencyStopWarn	65710
DTC_SPN_CamSensorW	65723
DTC_SPN_CamSensorX	65724
DTC_SPN_CamSensorY	65725
DTC_SPN_CamSensorZ	65726
DTC_SPN_StarterRelayLSDriver	66001
DTC_SPN_StarterRelayHSDriver	66002
DTC_SPN_MilDriver	66003
DTC_SPN_SvsLamp	66004
DTC_SPN_GovStatusLamp	66005
DTC_SPN_DtcLamp3	66006
DTC_SPN_BuzzerDriver	66007
DTC_SPN_DtcLamp1	66008

DTC_SPN_DtcLamp2	66009
DTC_SPN_SlowModeLamp	66010
DTC_SPN_SpeedBasedOutput	66011
DTC_SPN_TransUpShiftOutput	66012
DTC_SPN_PowertrainRelayDriver	66013
DTC_SPN_PowertrainRelayContact	66014
DTC_SPN_CanisterPurge	66015
DTC_SPN_Egr	66016
DTC_SPN_FuelPump1Relay	66017
DTC_SPN_Tachometer	66018
DTC_SPN_OxyHeater_A1	66019
DTC_SPN_OxyHeater_B1	66020
DTC_SPN_OxyHeater_A2	66021
DTC_SPN_OxyHeater_B2	66022
DTC_SPN_FuelPump2Relay	66025
DTC_SPN_ShiftInterrupt	66026
DTC_SPN_InterCoolerRelay	66030
DTC_SPN_BoostControl	66035
DTC_SPN_OemOutput1	66040
DTC_SPN_OemOutput2	66041
DTC_SPN_OemOutput3	66042
DTC_SPN_OemOutput4	66043