

EDC Flash - Code
潍柴动力国 III 柴油机
闪码表

说明

1. 本手册仅针对国三柴油机电控方面的故障，机械方面的故障可以按照欧二方法解决。
2. 国三系列柴油机采用电控系统，与采用机械泵时有本质区别，需要采用专用的诊断工具。
3. 潍柴动力国三系列柴油机采用 bosch 公司的第二代共轨系统。共轨系统对油路（包括低压油路和高压油路）要求较高，很多问题都是由油路问题引起的；其次，整车线束问题也是主要的故障源。
4. 闪码是对 ECU 错误内部错误的一个初步判断，更进一步的判断要用诊断仪。

闪码表

Blink code can be displayed in three levels of blinking.
闪码以三位的形式显示

1. **First level of blinking will classify an error specific to part of a system, for e.g. if error is because of ECU, Hydraulics, Sensors, Actuators**
第一位将错误按系统分类，比如说一个错误是否是由 ECU、液压部件、传感器、执行器引起的；
2. **Second Level of Blinking will indicate details about component identified.**
第二位表明发生错误的部件；
3. **Third Level will uniquely identify the Fault Path.**
第三位确定错误路径。

闪码按系统的基本分类

	1	2	3	4	5
	system running relative 系统运行相关	important Sensors 重要的传感器	accessary functions 附件及功能	injector & CAN message 喷油器及 CAN 通讯	external tests 外部测试
1	start relative, synconization 启动相关的同步	fuel filter 柴油粗滤器	cooling component 冷却系统	network manage 网络管理	misfire-dection 失火检测
2	start relative, components 启动相关部件	propulsion component 驱动部件	air heater 进气加热	Frame manager CAN 通讯	engine test 发动机测试
3	power supply, main relay 电源供应, 主继电器	air system component 进气系统	ErlpCD 故障灯	Frame manager CAN 通讯	
4	Bank & Chip 喷油器控制	cooling & lubrication 冷却与润滑系统	accessory button 按钮	Frame manager CAN 通讯	
5	injector system 喷射系统	rail pressure monitoring 轨压检测	EGR(not used in EIII) EGR(国三暂不用)	governor deviation 系统偏移	
6	CRS component 共轨系统部件	ECU&overrun monitoring ECU 及超速检测			

System/系统	Component/部件	Dfps/错误路径	Blink Code/闪码		
start relative	ECU Supply AD 转换器出错	Dfp_ADCMon	1	1	1
start relative	Synconisation 凸轮轴转速\曲轴转速传感器错误	Dfp_EngMCRs1	1	1	2
start relative		Dfp_EngMCS1	1	1	3
start relative		Dfp_EngMBackUp	1	1	4
start relative		ECU Internal	Dfp_TPUMon	1	1
start relative	ECU Internal	Dfp_SOPTst	1	1	6
start relative	start system 启动继电器错误	Dfp_StrtCDHS	1	2	1
start relative		Dfp_StrtCDLS	1	2	1
start relative	start system T15 开关错误	Dfp_T50CD	1	2	2
start relative	start system T50 开关错误	Dfp_T15CD	1	2	3
start relative	battery 电池	Dfp_BattCD	1	2	4
start relative	start system/标定错误非单调 map 图	Dfp_FMTC_NonMonotonMap	1	2	5
start relative	ECU Supply ECU 内部电源出错	Dfp_SSpMon1	1	3	1
start relative		Dfp_SSpMon12V	1	3	1
start relative		Dfp_SSpMon2	1	3	1
start relative		Dfp_SSpMon3	1	3	1
start relative	Main Relay 主继电器错误	Dfp_MnRly1_SCB	1	3	2
start relative		Dfp_MnRly1_SCG	1	3	2
start relative		Dfp_MRlyCD	1	3	2
CRS component	轨压传感器	Dfp_RailCD	1	3	3
CRS component		Dfp_RailCDOfsTst	1	3	3
CRS component	共轨泄压阀问题	Dfp_PRVMon	1	3	4
CRS component	流量计量单元错误	Dfp_MeUnCD_ADC	1	3	5
CRS component		Dfp_MeUnCDNoLoad	1	3	5
CRS component		Dfp_MeUnCDSCBat	1	3	5
CRS component		Dfp_MeUnCDSCGnd	1	3	5

System/系统	Component/部件	Dfps/错误路径	Blink Code/闪码		
Cylinder1	1 缸喷油器错误	Dfp_InjVlvCyl1A	1	4	1
Cylinder1		Dfp_InjVlvCyl1B	1	4	1
Cylinder2	2 缸喷油器错误	Dfp_InjVlvCyl2A	1	4	2
Cylinder2		Dfp_InjVlvCyl2B	1	4	2
Cylinder3	3 缸喷油器错误	Dfp_InjVlvCyl3A	1	4	3
Cylinder3		Dfp_InjVlvCyl3B	1	4	3
Cylinder4	4 缸喷油器错误	Dfp_InjVlvCyl4A	1	4	4
Cylinder4		Dfp_InjVlvCyl4B	1	4	4
Cylinder5	5 缸喷油器错误	Dfp_InjVlvCyl5A	1	4	5
Cylinder5		Dfp_InjVlvCyl5B	1	4	5
Cylinder6	6 缸喷油器错误	Dfp_InjVlvCyl6A	1	4	6
Cylinder6		Dfp_InjVlvCyl6B	1	4	6
Bank	Bank1(控制 1.2.3 喷油器)错误	Dfp_InjVlvBnk1A	1	5	1
Bank		Dfp_InjVlvBnk1B	1	5	1
Bank	Bank2(控制 4.5.6 喷油器)错误	Dfp_InjVlvBnk2A	1	5	2
Bank		Dfp_InjVlvBnk2B	1	5	2
chip	Chip(控制喷油)错误	Dfp_InjVlvChipA	1	5	3
chip		Dfp_InjVlvChipB	1	5	3
injection	最少正常工作的喷油器未达到	Dfp_InjVlvNumMinInj	1	5	4
injection	ECU 内部对喷油的限制	Dfp_InjCrv_InjLim	1	5	5
important function	Fuel Filter 油中有水	Dfp_FISys_WtDet	2	1	1
important function	propulsion 踏板传感器 1 错误	Dfp_APP1	2	2	1
important function	propulsion 踏板传感器 2 错误	Dfp_APP2	2	2	1
important function	propulsion 离合器开关错误	Dfp_ConvCD	2	2	2
important function	propulsion 制动开关错误	Dfp_BrkCD	2	2	3
important function	propulsion 油门与制动可信检测错误	Dfp_AccPedPlausBrk	2	2	5

System/系统	Component/部件	Dfps/错误路径	Blink Code/闪码		
important function	propulsion	Dfp_EngPrtOvrSpd	2	2	6
important function	propulsion	Dfp_GearbxIncMax	2	2	7
important function	propulsion	Dfp_CoVMDCSh	2	2	8
important function	Air system 进气压力传感器	Dfp_BPSCD	2	3	1
important function	Air system 大气压力传感器	Dfp_APSCD	2	3	2
important function	Air system 进气温度传感器	Dfp_IATSCD	2	3	3
important function	Cooling system 冷却水温度传感器	Dfp_CTSCD	2	4	1
important function	Cooling system 水温过高报警	Dfp_CTSCDOvrTemp	2	4	2
important function	Cooling system 机油压力传感器	Dfp_OPSCD	2	4	3
important function	Cooling system 油压太低报警	Dfp_OPSCD1	2	4	3
important function	Cooling system 机油温度传感器	Dfp_OTSCD	2	4	4
important function	Cooling system 机油温度过高报警	Dfp_OTSCD1	2	4	4
important function	Cooling system 水温传感器测试	Dfp_Clg_AbsTst	2	4	5
important function		Dfp_Clg_DynTst	2	4	5
Rail Pressure Monitoring	Rail Meun 高压油路\低压油路问题(有泄露)	Dfp_RailMeUn0	2	5	1
Rail Pressure Monitoring		Dfp_RailMeUn1	2	5	2
Rail Pressure Monitoring		Dfp_RailMeUn3	2	5	3
Rail Pressure Monitoring		Dfp_RailMeUn4	2	5	3
Rail Pressure Monitoring		Dfp_RailMeUn12	2	5	4
Rail Pressure Monitoring		Dfp_RailMeUn2	2	5	4
Rail Pressure Monitoring		Dfp_RailMeUn7	2	5	5
Rail Pressure Monitoring		Dfp_RailMeUn10	2	5	6
Rail Pressure Monitoring		Dfp_RailMeUn6	2	5	7
start relative		ECU Recovery	Dfp_HWEMonRcyLocked	2	6
start relative	ECU Recovery	Dfp_HWEMonRcySuppressed	2	6	1
start relative	ECU Recovery	Dfp_HWEMonRcyVisible	2	6	1

System/系统	Component/部件	Dfps/错误路径	Blink Code/闪码		
start relative	OvrMon 超速检测	Dfp_OvRMon	2	6	2
start relative		Dfp_OvRMonSigA	2	6	2
start relative		Dfp_HWEMonCom	2	6	3
start relative	ECU Monitoring	Dfp_HWEMonUMaxSupply	2	6	3
start relative	ECU Monitoring	Dfp_HWEMonUMinSupply	2	6	3
start relative	ECU Monitoring	Dfp_Montr	2	6	4
start relative	ECU Monitoring	Dfp_HWEMonEEPROM	2	6	5
accessory	Exhaust Flap 排气制动阀错误	Dfp_ExFICD_Max	3	1	1
accessory		Dfp_ExFICD_Min	3	1	1
accessory		Dfp_ExFICD_SigNpl	3	1	1
accessory	空调压缩机继电器故障	Dfp_ACCDCmpr	3	1	3
accessory	glow system 进气加热继电器	Dfp_ArHt1	3	2	1
accessory		Dfp_AirHtStickOn	3	2	2
accessory		Dfp_AirHt_Test1	3	2	3
accessory		Dfp_AirHt_Test2	3	2	3
important function	propulsion 车速传感器故障	Dfp_VSSCD1	3	2	4
important function		Dfp_VSSCD2	3	2	4
important function		Dfp_VSSCD3	3	2	4
accessory	多态开关	Dfp_MSSCD	3	2	7
accessory	系统灯	Dfp_SysLamp	3	3	1
accessory	cold start lamp 冷启动灯	Dfp_CSLPCD	3	3	2
accessory	报警灯	Dfp_Wrn	3	3	2
accessory	water in fuel lever sensor 油中有水灯	Dfp_Gen1	3	3	4
accessory	warning lamp 报警灯	Dfp_Gen3	3	3	4
accessory	巡航开关	Dfp_MFLvCrCtlMode	3	4	1
accessory	排气制动开关	Dfp_EBSwPreSelPlaus	3	4	2

System/系统	Component/部件	Dfps/错误路径	Blink Code/闪码		
accessory	车下启动开关错误	Dfp_ECBtCD	3	4	3
external test	external test	Dfp_CmbChbMisfire1	5	1	1
external test		Dfp_CmbChbMisfire2	5	1	2
external test		Dfp_CmbChbMisfire3	5	1	3
external test	external test	Dfp_CmbChbMisfireMul	5	1	4
external test	external test 外部测试	Dfp_ComprTst	5	2	1
external test		Dfp_HpTst	5	2	2
external test		Dfp_RunUpTst	5	2	3
external test	external test	Dfp_CmbChbMisfire4	5	3	1
external test		Dfp_CmbChbMisfire5	5	3	2
external test		Dfp_CmbChbMisfire6	5	3	3
external test	external test 外部测试	Dfp_ShOffTst	5	3	4
start relative	Synconisation 同步信号问题	Dfp_EngMOfsCaSCrS	5	4	1

主机厂安装 CAN 总线以后，可能出现的闪码：

System/系统	Component/部件	Dfps/错误路径	Blink Code/闪码		
accessory		Dfp_ACCDSwtin	3	1	3
CAN message	Network manage	Dfp_NetMngCANAOFF	4	1	1
CAN message	Network manage	Dfp_NetMngCANBOFF	4	1	2
CAN message	Network manage	Dfp_NetMngCANCOFF	4	1	3
CAN message	Communication Monitoring	Dfp_WdCom	4	1	4
CAN message	Receive timeout	Dfp_FrmMngTOEngGsFlowRt	4	1	5
CAN message	Receive timeout	Dfp_FrmMngTOHRVD	4	1	6
CAN message	Receive timeout	Dfp_FrmMngTOTimeDate	4	1	7
CAN message		Dfp_FrmMngTOTSC1AE	4	2	1
CAN message		Dfp_FrmMngTOTSC1AR	4	2	1
CAN message		Dfp_FrmMngTOTSC1DE	4	2	2
CAN message		Dfp_FrmMngTOTSC1DR	4	2	2
CAN message		Dfp_FrmMngTOTSC1PE	4	2	3
CAN message		Dfp_FrmMngTOTSC1TE	4	2	4
CAN message		Dfp_FrmMngTOTSC1TR	4	2	4
CAN message		Dfp_FrmMngTOTSC1VE	4	2	5
CAN message		Dfp_FrmMngTOTSC1VR	4	2	5
CAN message	Communication Monitoring	Dfp_FrmMngTxTO	4	3	1
CAN message	Receive timeout	Dfp_FrmMngRxEngTmp2Sens	4	3	2
CAN message	Receive timeout	Dfp_FrmMngEngGsFIRtHtr	4	3	3
CAN message	Receive timeout-no used	Dfp_FrmMngTODashDspl	4	3	4
CAN message		Dfp_FrmMngTOWSI	4	3	5
CAN message	Receive timeout	Dfp_FrmMngTOEBC1	4	4	1
CAN message	Receive timeout	Dfp_FrmMngTOERC1DR	4	4	2
CAN message	Receive timeout	Dfp_FrmMngTOETC1	4	4	3

System/系统	Component/部件	Dfps/错误路径	Blink Code/闪码		
CAN message	Receive timeout-no used	Dfp_FrmMngTORxAMCON	4	4	4
CAN message	Receive timeout-no used	Dfp_FrmMngTORxCCVS	4	4	5
CAN message	Receive timeout	Dfp_FrmMngTOTCO1	4	4	6
CAN message	Receive timeout	Dfp_FrmMngTORxEngTemp2	4	5	1
CAN message	Receive timeout	Dfp_FrmMngTOTF	4	5	2

目前国三上没有用到的功能及传感器、执行器：

System/系统	Component/部件	Dfps/错误路径	Blink Code/闪码		
important function	Fuel Filter	Dfp_FISys_FltFoul	2	1	2
important function	Fuel Filter	Dfp_FIFCD_FltFoulMax	2	1	3
important function	Fuel Filter	Dfp_FIFCD_FltFoulMin	2	1	3
important function	Fuel Filter	Dfp_FIFCD_FltFoulNpl	2	1	3
important function	Fuel Filter	Dfp_FIFCD_WtLvlMax	2	1	4
important function	Fuel Filter	Dfp_FIFCD_WtLvlMin	2	1	4
important function	Fuel system	Dfp_FTSCD	2	1	5
important function	Fuel Filter	Dfp_FIFCD_Htg	2	1	6
important function	Air system	Dfp_AFSCD_AirTemp	2	3	4
important function	Air system	Dfp_AFSCD_PIOffsDrft	2	3	4
important function	Air system	Dfp_AFSCD_PISetyDrft	2	3	4
important function	Air system	Dfp_AFSCD_SRCAirm	2	3	4
important function	Air system	Dfp_EATSCD	2	3	5
important function	Air system	Dfp_EATSCDBET	2	3	5
important function	Air system	Dfp_EATSCDClgZn	2	3	5
important function	Air system	Dfp_EATSCDlnAir	2	3	5
important function	Cooling system	Dfp_CLSCD	2	4	6

System/系统	Component/部件	Dfps/错误路径	Blink Code/闪码		
important function	Cooling system	Dfp_OLSCD	2	4	7
important function	Air system	Dfp_IAHSCD	2	3	6
accessory		Dfp_FanCD	3	1	2
accessory		Dfp_FanCD2	3	1	2
accessory		Dfp_FanCDEval	3	1	2
accessory		Dfp_ASLLCD	3	3	3
accessory		Dfp_MIL	3	3	3
accessory		Dfp_Gen2	3	3	4
accessory		Dfp_EGPPCDP3	3	4	5
not used		Dfp_CABCD	2	2	4
not used		Dfp_CRERCD_Actr	3	2	5
not used		Dfp_PSPCD_Actr	3	2	6
not used	PWM-no used	Dfp_BPACD_ADC	3	4	4
not used	PWM-no used	Dfp_BPACD_Max	3	4	4
not used	PWM-no used	Dfp_BPACD_Min	3	4	4
not used	PWM-no used	Dfp_BPACD_SigNpl	3	4	4
not used	EGR	Dfp_ECBCD	3	5	1
not used	EGR	Dfp_EGRCD_Max	3	5	1
not used	EGR	Dfp_EGRCD_Min	3	5	1
not used	EGR	Dfp_EGRCD_SigNpl	3	5	1
not used	Air system-no used	Dfp_TVACD_Max	3	5	2
not used	Air system-no used	Dfp_TVACD_Min	3	5	2
not used	Air system-no used	Dfp_TVACD_SigNpl	3	5	2
not used	Governor deviation-not used	Dfp_AirCtlGvnrDvtMax	4	5	3
not used	Governor deviation-not used	Dfp_AirCtlGvnrDvtMin	4	5	3
not used	Governor deviation-not used	Dfp_PCRGvnrDvtMax	4	5	4
not used	Governor deviation-not used	Dfp_PCRGvnrDvtMin	4	5	4

System/系统	Component/部件	Dfps/错误路径	Blink Code/闪码		
not used	external test	Dfp_VarMngCodDs	5	2	4