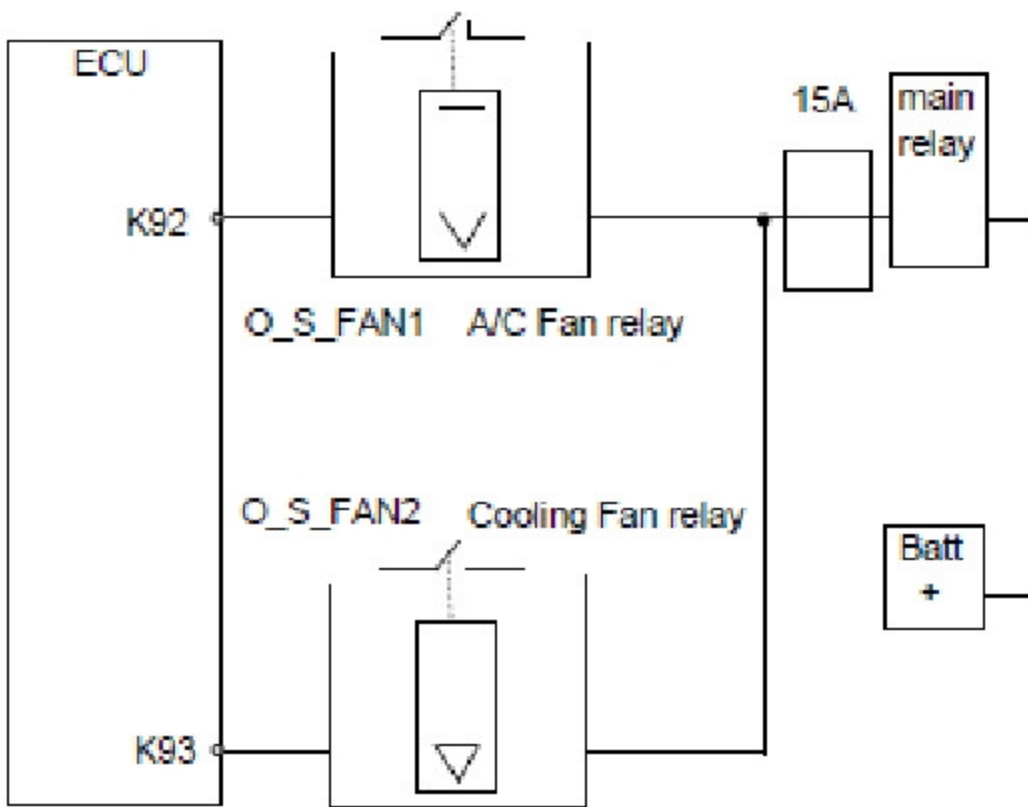
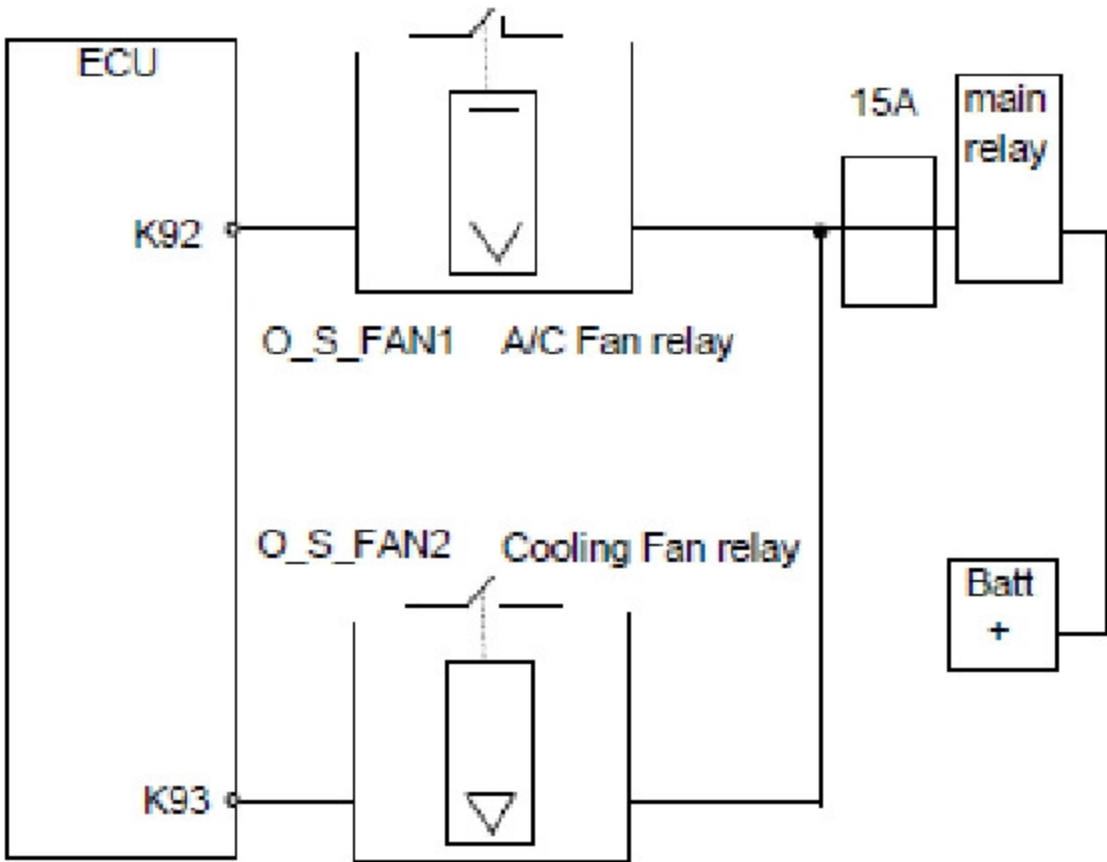
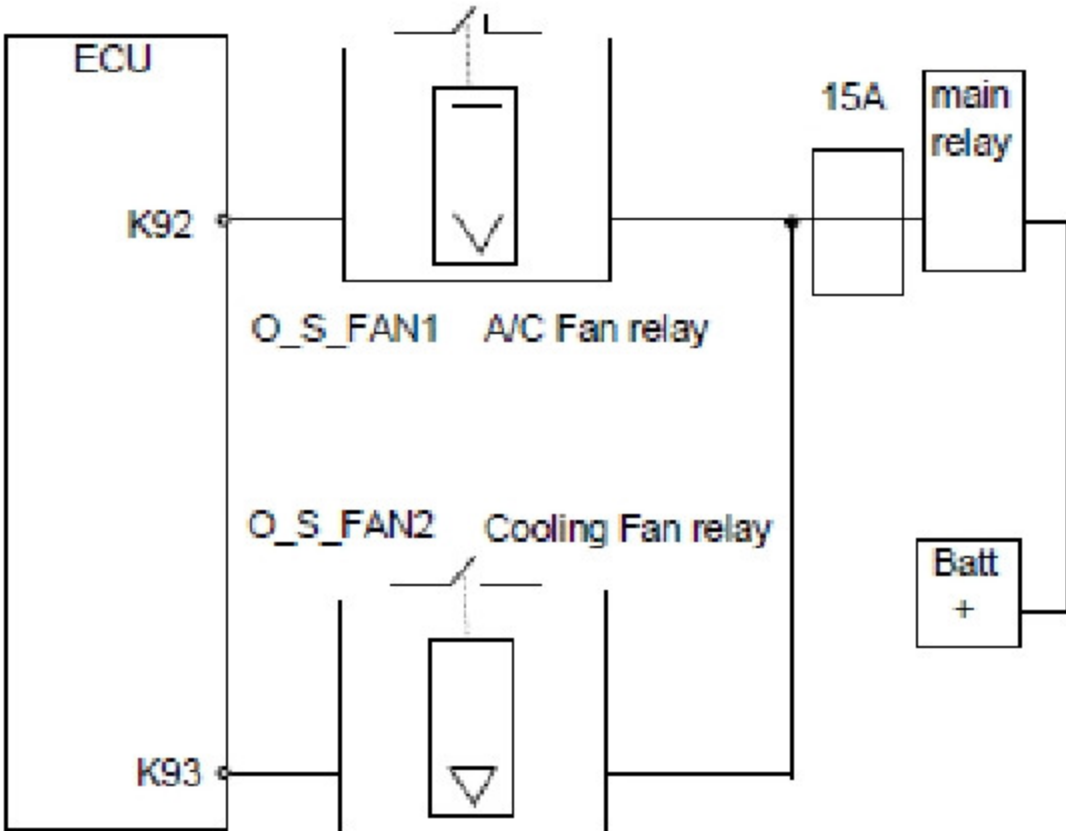
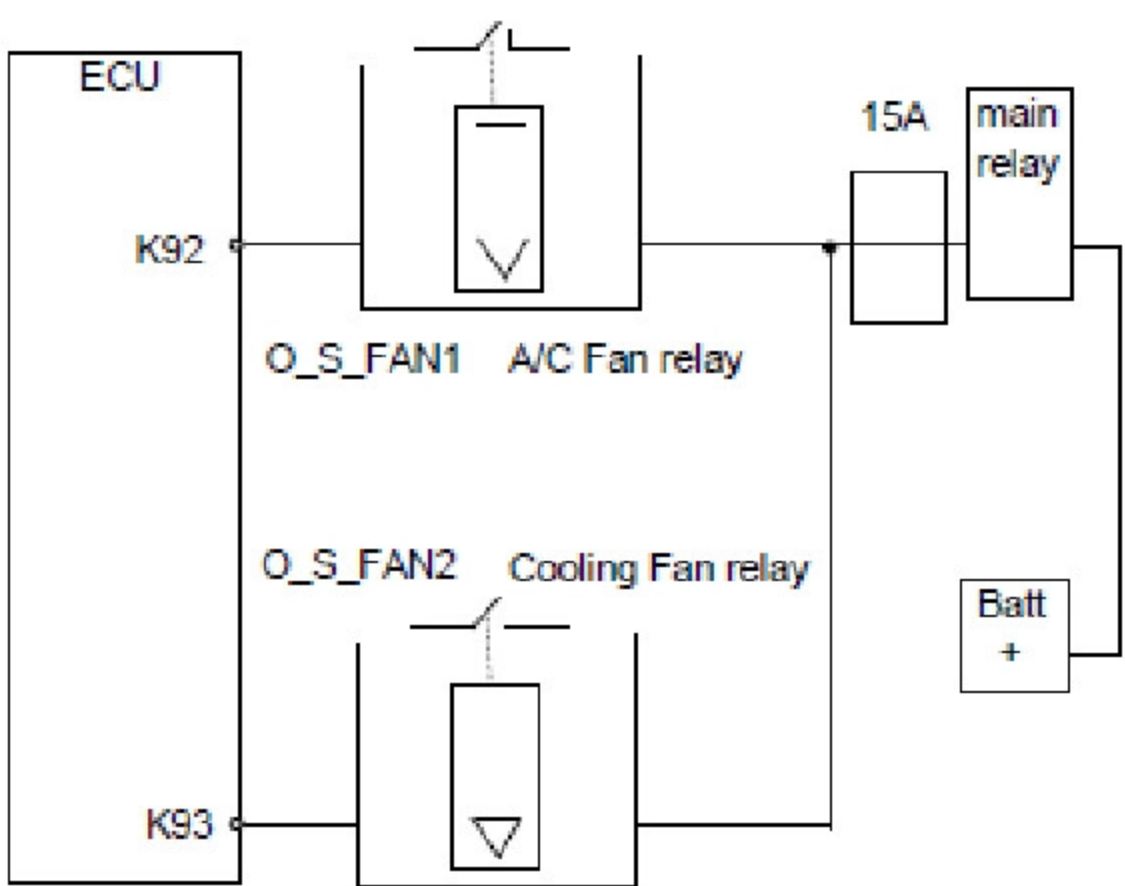
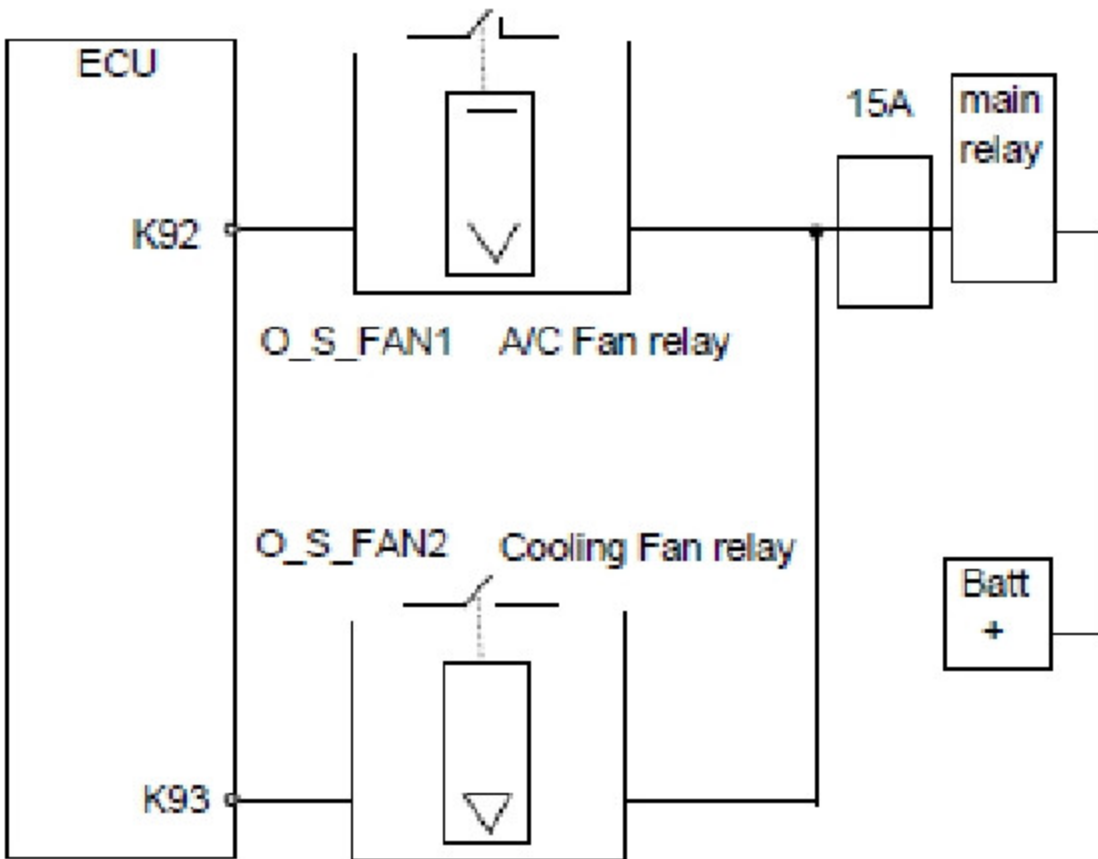


故障码 P-Code	P0480		
硬件结构		Hardware structure	
			
故障类型描述		Fault Path Type Description	
开关型低速风扇控制开路		No load error of Fan1	
故障发生的可能原因		Possible Cause	
风扇电路 1 开路		Fan circuit 1 open circuit	
检查项目		Check Items	
检测风扇控制电路		Check the fan control circuit	
可能的影响		Possible Symptom	
风扇工作会不正常,其具体现象则取决于风扇电路结构		Fan in abnormal operations depending on the fan circuit structure	

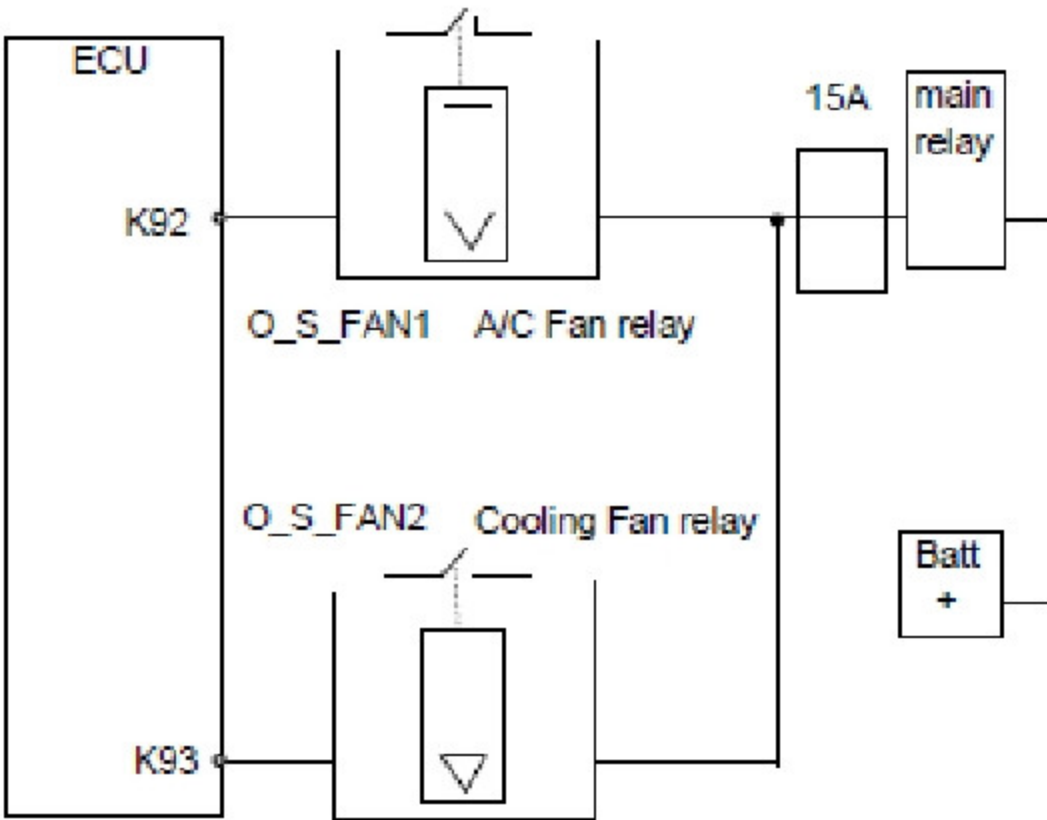
故障码 P-Code	P0481		
硬件结构		Hardware structure	
 The diagram illustrates the hardware structure for the P0481 fault. It shows an ECU (Engine Control Unit) connected to two relays: the A/C Fan relay (labeled O_S_FAN1) and the Cooling Fan relay (labeled O_S_FAN2). The A/C Fan relay is controlled by terminal K92, and the Cooling Fan relay is controlled by terminal K93. Both relays are connected to a common power source through a 15A fuse and a main relay. The power source is labeled Batt + (Battery positive). The diagram also shows a switch symbol above each relay, indicating a control input.			
故障类型描述		Fault Path Type Description	
开关型高速风扇控制开路		No load error of Fan2	
故障发生的可能原因		Possible Cause	
风扇电路 2 开路		Fan circuit 2 open circuit	
检查项目		Check Items	
检测风扇控制电路		Check the fan control circuit	
可能的影响		Possible Symptom	
风扇工作会不正常,其具体现象则取决于风扇电路结构		Fan in abnormal operations depending on the fan circuit structure	

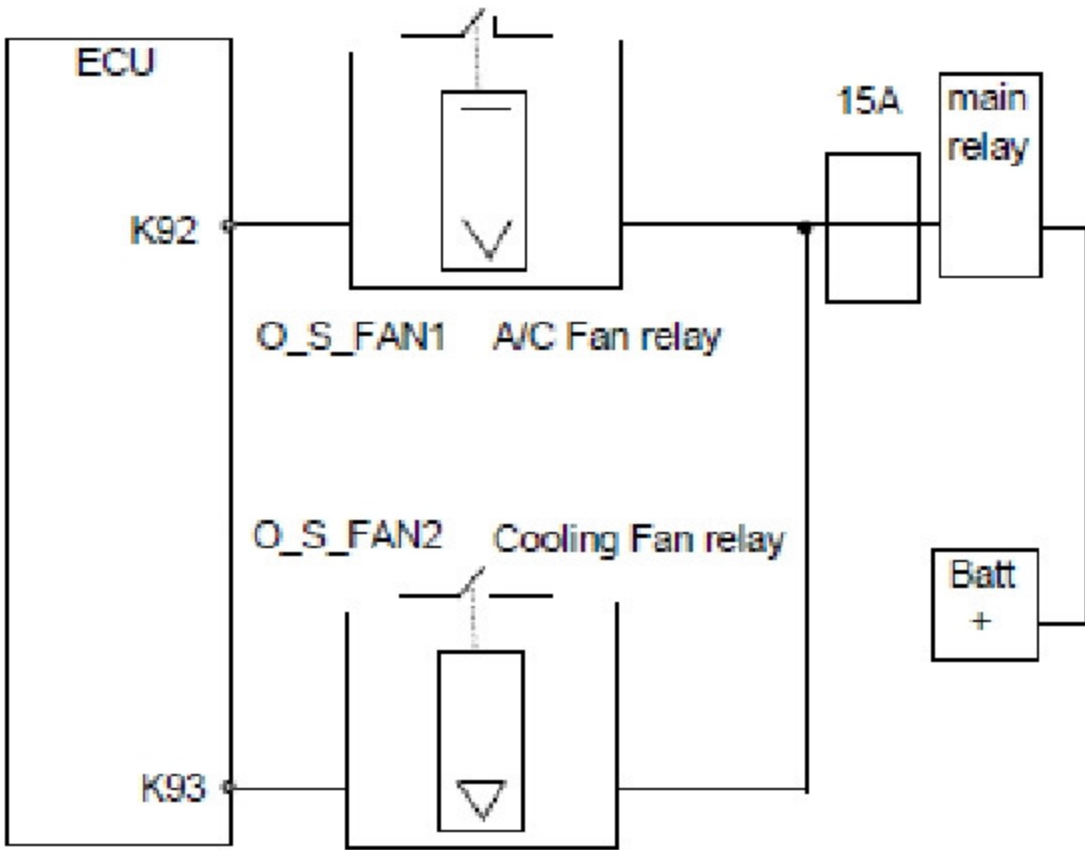
故障码 P-Code	P0483		
硬件结构		Hardware structure	
 The diagram illustrates the ECU Fan Control Circuit. On the left, a vertical rectangle represents the ECU. Two terminals, K92 and K93, are shown on its right side. K92 is connected to the coil of the A/C Fan relay (O_S_FAN1), which is depicted as a rectangle with a downward-pointing triangle and a switch symbol. K93 is connected to the coil of the Cooling Fan relay (O_S_FAN2), also shown as a rectangle with a downward-pointing triangle and a switch symbol. The bottom terminals of both relays are connected to a common ground line. The top terminal of the A/C Fan relay is connected to a 15A fuse, which is in turn connected to the main relay. The main relay is represented by a rectangle. The bottom terminal of the main relay is connected to the positive terminal of the battery (Batt +), which is shown as a rectangle with a plus sign. The entire circuit is powered by the battery.			
故障类型描述		Fault Path Type Description	
开关型低速风扇控制过热		Over temperature error of Fan1	
故障发生的可能原因		Possible Cause	
风扇电路 1 过热		Fan circuit 1 over temperature	
检查项目		Check Items	
检测风扇控制电路		Check the fan control circuit	
可能的影响		Possible Symptom	
风扇工作会不正常,其具体现象则取决于风扇电路结构		Fan in abnormal operations depending on the fan circuit structure	

故障码 P-Code	P0484		
硬件结构		Hardware structure	
 The diagram illustrates the hardware structure for the P0484 fault. On the left, a vertical rectangle represents the ECU. Two terminals, K92 and K93, are shown on its right side. K92 is connected to the coil of the A/C Fan relay, which is depicted as a rectangle with a downward-pointing triangle and a dashed line. K93 is connected to the coil of the Cooling Fan relay, also shown as a rectangle with a downward-pointing triangle and a dashed line. Both relays are connected to a common power line that passes through a 15A fuse. This line then splits to connect to the main relay and the positive terminal of the battery (Batt +). The battery is represented by a rectangle with a '+' sign.			
故障类型描述		Fault Path Type Description	
开关型高速风扇控制过热		Over temperature error of Fan2	
故障发生的可能原因		Possible Cause	
风扇电路 2 过热		Fan circuit 2 over temperature	
检查项目		Check Items	
检测风扇控制电路		Check the fan control circuit	
可能的影响		Possible Symptom	
风扇工作会不正常,其具体现象则取决于风扇电路结构		Fan in abnormal operations depending on the fan circuit structure	

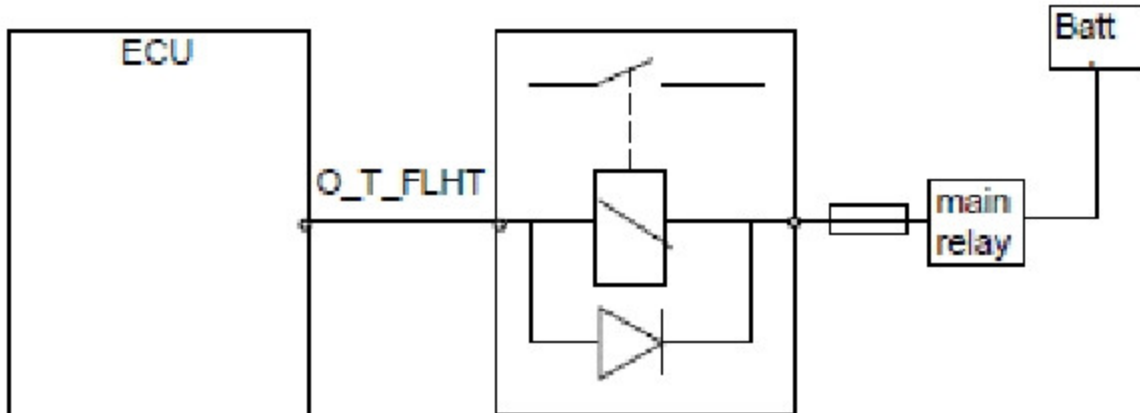
故障码 P-Code	P0691		
硬件结构		Hardware structure	
 The diagram illustrates the hardware structure for the fan control system. On the left is the ECU (Engine Control Unit). It has two output pins: K92 and K93. K92 is connected to the coil of the A/C Fan relay (labeled O_S_FAN1). K93 is connected to the coil of the Cooling Fan relay (labeled O_S_FAN2). Both relays are represented by rectangles with a triangle inside. The A/C Fan relay's coil is connected to a common power line that passes through a 15A fuse. The Cooling Fan relay's coil is also connected to this common power line. This common power line is connected to the main relay. The main relay is connected to the positive terminal of the battery (Batt +). The ground reference for the entire system is connected to the negative terminal of the battery.			
故障类型描述		Fault Path Type Description	
开关型低速风扇控制对电源短路		Short circuit to battery error of Fan1	
故障发生的可能原因		Possible Cause	
风扇电路 1 对电源，高电平短路		Fan circuit 1 short circuit to battery, high level	
检查项目		Check Items	
检测风扇控制电路		Check the fan control circuit	
可能的影响		Possible Symptom	
风扇工作会不正常,其具体现象则取决于风扇电路结构		Fan in abnormal operations depending on the fan circuit structure	

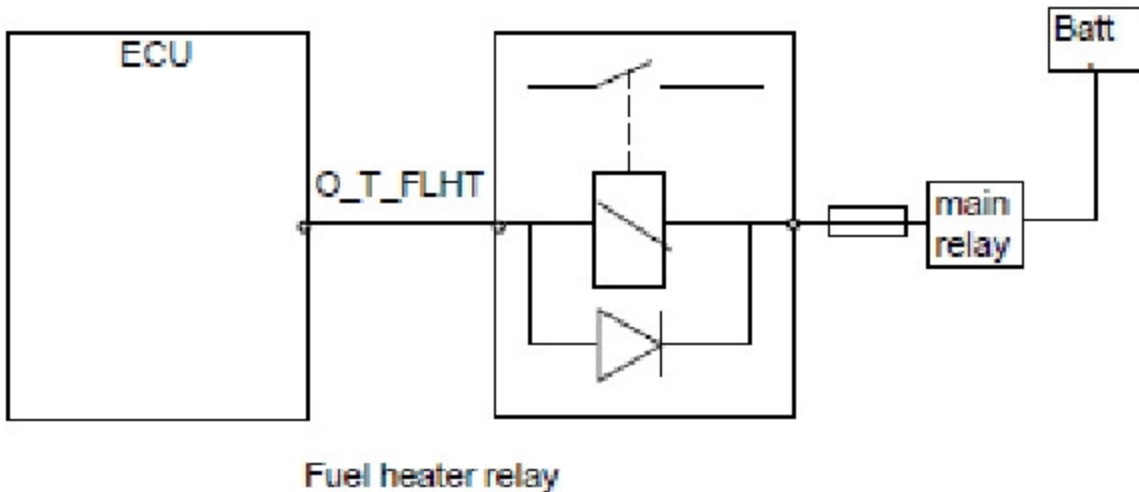
故障码 P-Code	P0693		
硬件结构		Hardware structure	
The diagram illustrates the hardware structure for the P0693 fault. It shows the ECU (Electronic Control Unit) connected to two relays: O_S_FAN1 (A/C Fan relay) and O_S_FAN2 (Cooling Fan relay). The ECU controls these relays through terminals K92 and K93. The output of O_S_FAN1 is connected to a 15A fuse and the main relay. The output of O_S_FAN2 is connected to the same 15A fuse and the main relay. The main relay is connected to the battery (Batt +).			
故障类型描述		Fault Path Type Description	
开关型高速风扇控制对电源短路		Short circuit to battery error of Fan2	
故障发生的可能原因		Possible Cause	
风扇电路 2 对电源，高电平短路		Fan circuit 2 short circuit to battery, high level	
检查项目		Check Items	
检测风扇控制电路		Check the fan control circuit	
可能的影响		Possible Symptom	
风扇工作会不正常,其具体现象则取决于风扇电路结构		Fan in abnormal operations depending on the fan circuit structure	

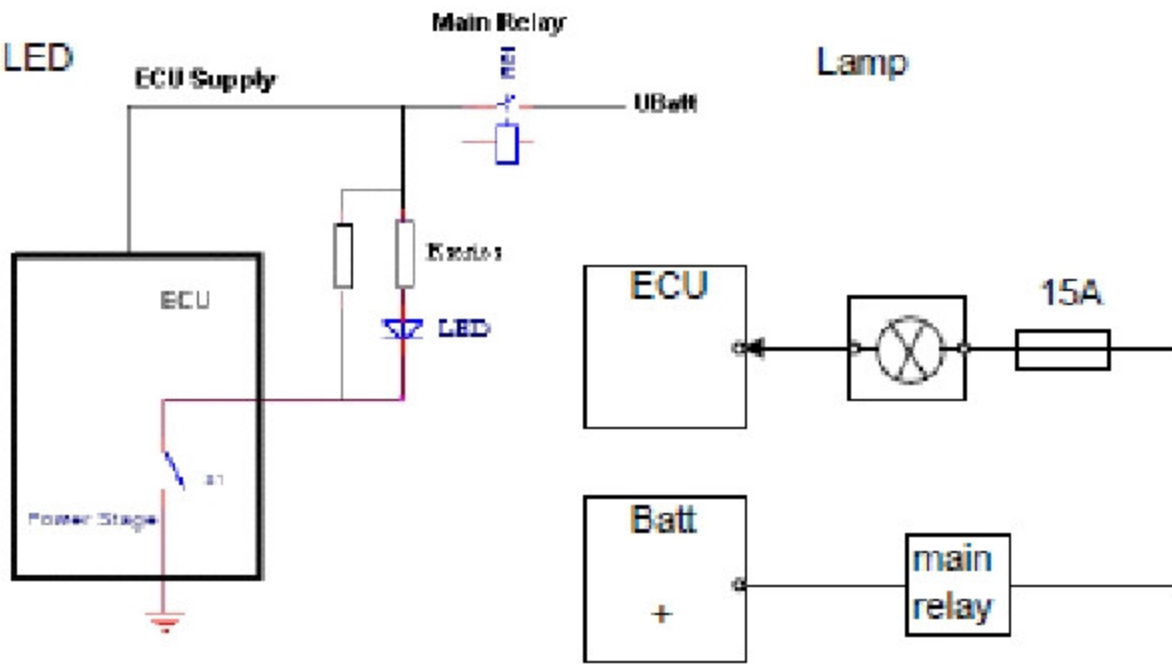
故障码 P-Code	P0692		
硬件结构		Hardware structure	
 The diagram illustrates the hardware structure for the fan control system. On the left, the ECU (Engine Control Unit) is shown with two output pins: K92 and K93. K92 is connected to the coil of the A/C Fan relay (labeled O_S_FAN1). K93 is connected to the coil of the Cooling Fan relay (labeled O_S_FAN2). Both relays are represented by rectangles with a diagonal line and a triangle. The A/C Fan relay's coil is connected to a common power line that passes through a 15A fuse and a main relay before reaching the battery (Batt +). The Cooling Fan relay's coil is also connected to this common power line. The battery is represented by a box with a '+' sign.			
故障类型描述		Fault Path Type Description	
开关型低速风扇控制对地短路		Short circuit to ground error of Fan1	
故障发生的可能原因		Possible Cause	
风扇电路 1 对地，低电平短路		Fan circuit 1 short circuit to ground, low level	
检查项目		Check Items	
检测风扇控制电路		Check the fan control circuit	
可能的影响		Possible Symptom	
风扇工作会不正常,其具体现象则取决于风扇电路结构		Fan in abnormal operations depending on the fan circuit structure	

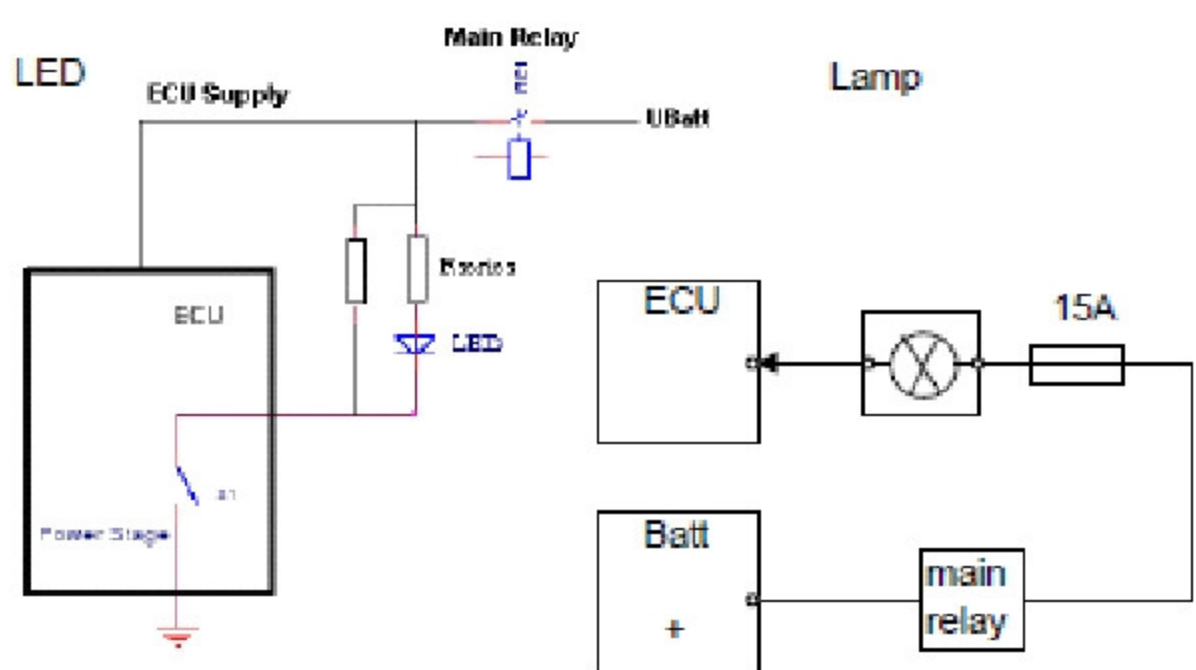
故障码 P-Code	P0694		
硬件结构		Hardware structure	
 The diagram illustrates the hardware structure for the fan control system. On the left, the ECU (Engine Control Unit) is shown with two output pins: K92 and K93. K92 is connected to the coil of the A/C Fan relay (O_S_FAN1), which is represented by a rectangle with a downward-pointing triangle. K93 is connected to the coil of the Cooling Fan relay (O_S_FAN2), also represented by a rectangle with a downward-pointing triangle. Both relays are connected to a common power line that passes through a 15A fuse and a main relay (represented by a rectangle) before reaching the positive terminal of the battery (Batt+). The battery is shown as a rectangle with a '+' sign.			
故障类型描述		Fault Path Type Description	
开关型高速风扇控制对地短路		Short circuit to ground error of Fan2	
故障发生的可能原因		Possible Cause	
风扇电路 2 对地，低电平短路		Fan circuit 2 short circuit to ground, low level	
检查项目		Check Items	
检测风扇控制电路		Check the fan control circuit	
可能的影响		Possible Symptom	
风扇工作会不正常,其具体现象则取决于风扇电路结构		Fan in abnormal operations depending on the fan circuit structure	

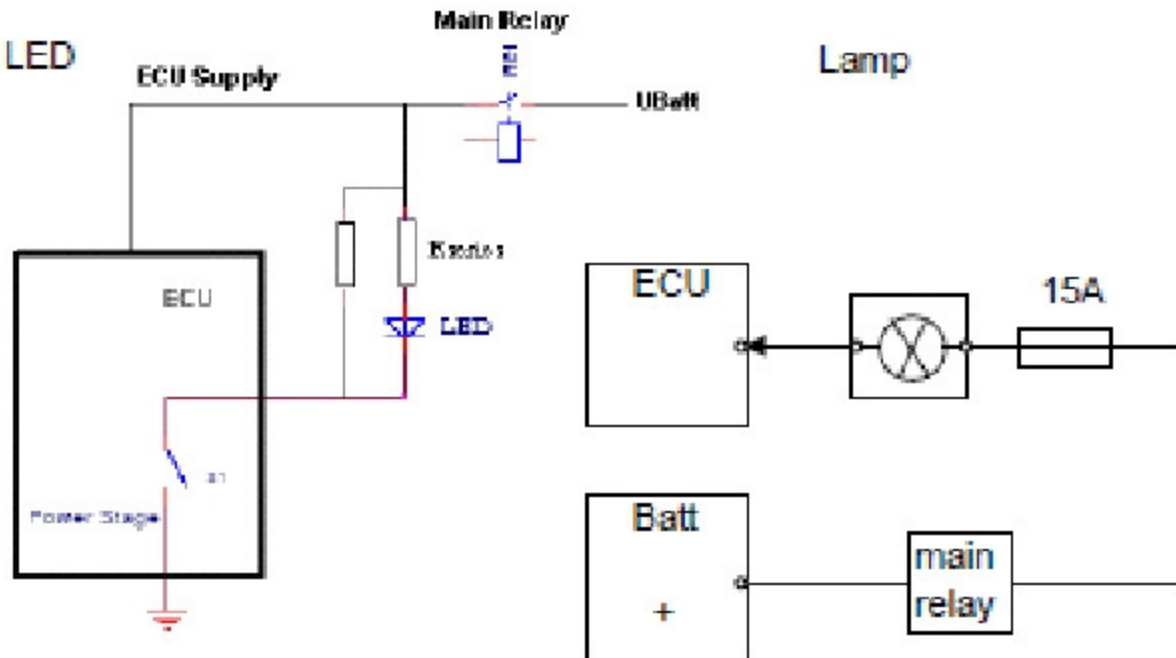
故障码 P-Code	P1020		
硬件结构		Hardware structure	
ECU O_T_FLHT Fuel heater relay main relay Batt			
故障类型描述		Fault Path Type Description	
燃油滤清器加热驱动级开路		No load error in powerstage of fuel filter heating	
故障发生的可能原因		Possible Cause	
燃油滤清加热器的继电器控制电路开路(69号线开路)		Relay control circuit of fuel filter heater open circuit (69 open circuit)	
检查项目		Check Items	
检查油滤加热器控制端电路是否开路 (69)		Check if the control end of oil filter heater open circuit (69)	
可能的影响		Possible Symptom	
油滤加热器不工作		Oil filter heater not working	

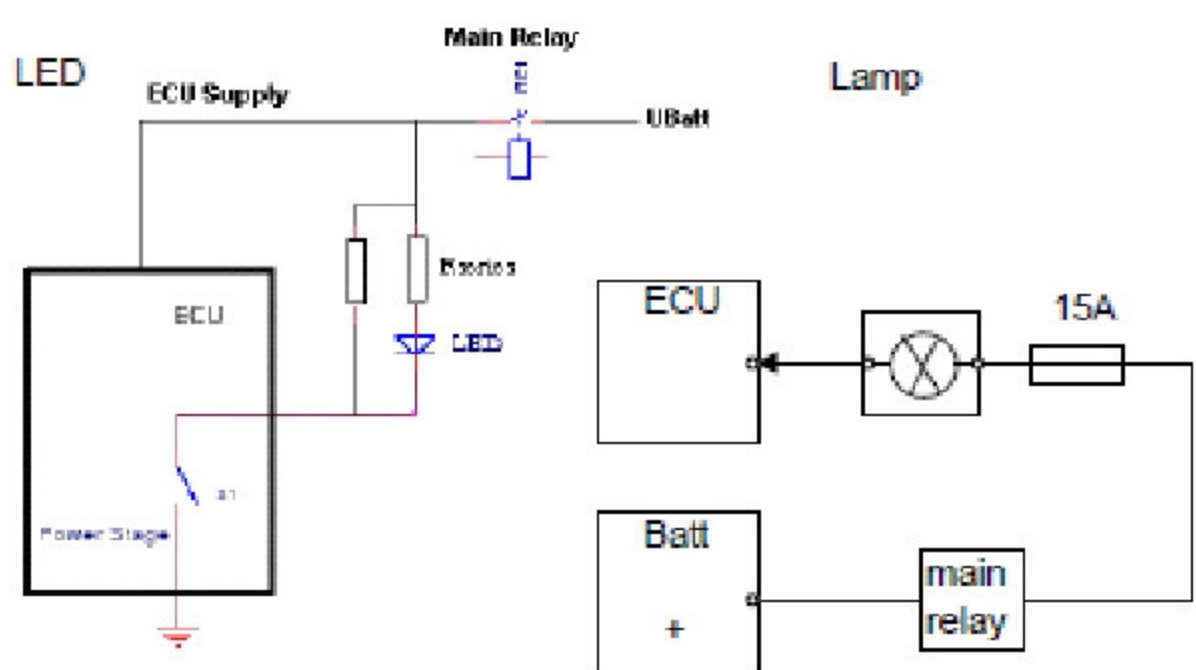
故障码 P-Code	P1025		
硬件结构		Hardware structure	
 Fuel heater relay			
故障类型描述		Fault Path Type Description	
燃油滤清器加热驱动级温度过高		Over Temperature error in powerstage of fuel filter heating	
故障发生的可能原因		Possible Cause	
燃油滤清加热器的驱动电路过热 (ECU 模块)		Driving circuit of oil filter heater over temperature (ECU module)	
检查项目		Check Items	
检查油滤加热器 ,ECU 模块的工作情况		Check the working conditions of oil filter heater and ECU module	
可能的影响		Possible Symptom	
油滤加热器可能不正常工作		Oil filter heater may be in abnormal operation	

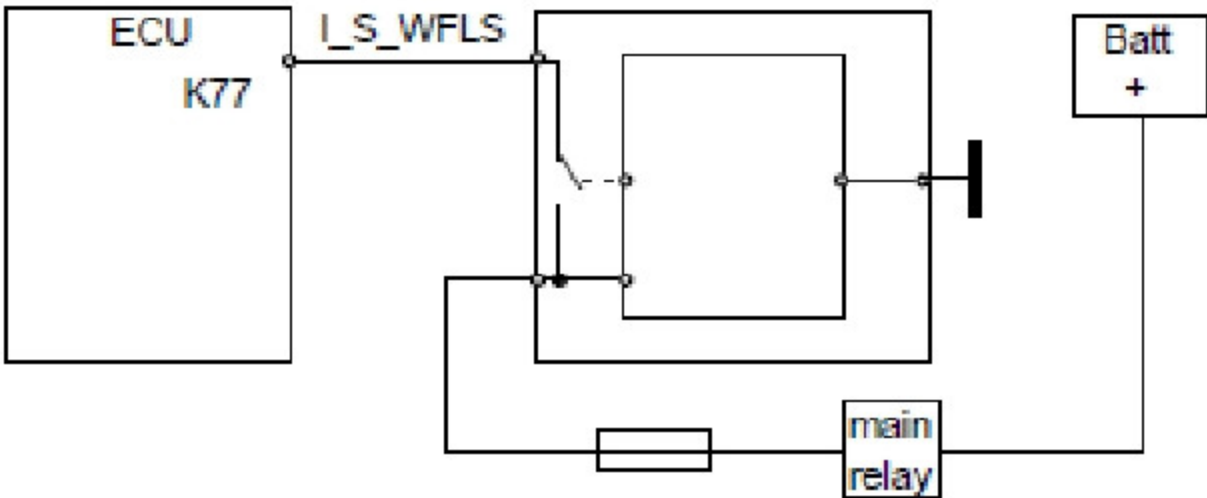
故障码 P-Code	P1021		
硬件结构		Hardware structure	
			
故障类型描述		Fault Path Type Description	
燃油滤清器加热驱动级对电源短路		Short circuit to battery error in powerstage of fuel filter heating	
故障发生的可能原因		Possible Cause	
燃油滤清加热器的继电器控制电路对电源,高电平短路 (69 对电源短路)		Relay control of oil filter heater short circuit to battery, high level (69 short circuit to battery)	
检查项目		Check Items	
检查油滤加热器控制端电路是否对电源,高电平短路 (69)		Check if the control end of oil filter heater short circuit to battery, high level (69)	
可能的影响		Possible Symptom	
油滤加热器不工作		Oil filter heater not working	

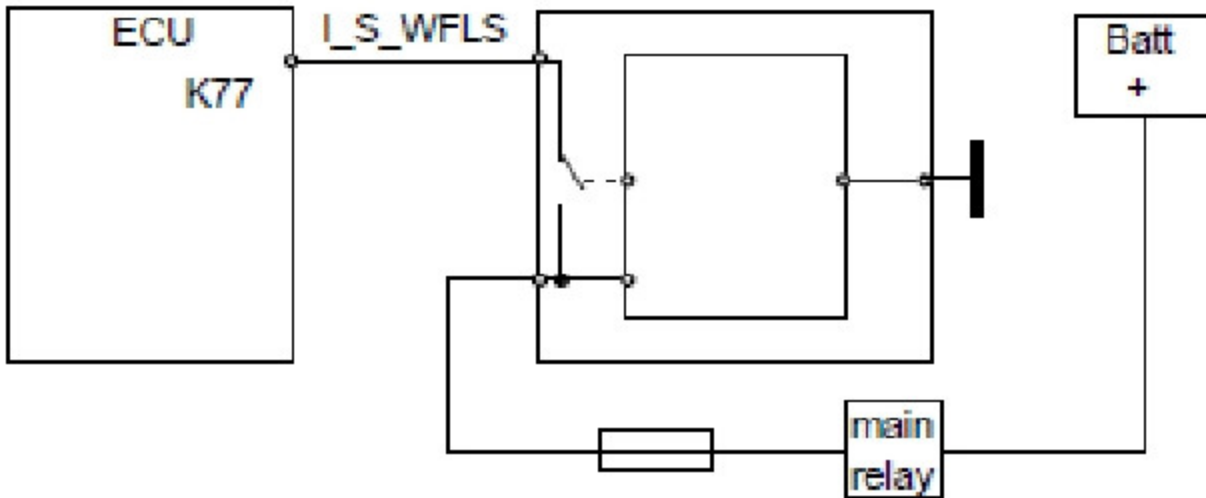
故障码 P-Code	P2264		
硬件结构		Hardware structure	
			
故障类型描述		Fault Path Type Description	
油水分离指示灯驱动电路开路		No load error for fuel sensor	
故障发生的可能原因		Possible Cause	
ECU 到灯的线路出现开路		Open circuit from the ECU to the lamp	
检查项目		Check Items	
检测 ECU 到灯之间的线路故障		Check the error from ECU and the lamp	
可能的影响		Possible Symptom	
灯常灭		Lamp always off	

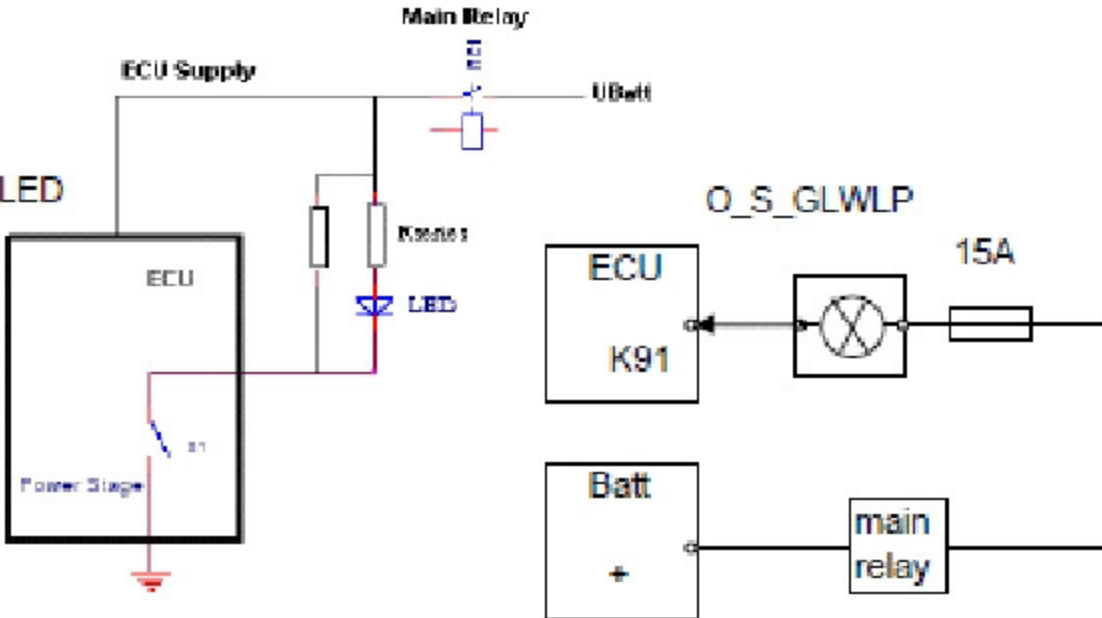
故障码 P-Code	P2268		
硬件结构		Hardware structure	
 The diagram illustrates the electrical circuit for the oil-water separator indicator lamp. On the left, the ECU (Engine Control Unit) is shown with its internal 'Power Stage' and a pin labeled '21'. The ECU is powered by 'ECU Supply' and grounded. A 'Main Relay' is connected to 'UBatt' (battery voltage) and the ECU. A 'LED' is connected in series with a resistor to the ECU's pin 21. On the right, the 'Lamp' is shown, which is a 15A bulb. It is connected to the ECU's output and a '15A' fuse. The lamp is also connected to the 'main relay' and the 'Batt' (battery).			
故障类型描述		Fault Path Type Description	
油水分离指示灯驱动电路过热		Temperature error of Water in Fuel Lamp	
故障发生的可能原因		Possible Cause	
-		-	
检查项目		Check Items	
检测 ECU 到灯之间的线路故障		Check the error from ECU and the lamp	
可能的影响		Possible Symptom	
灯不正常工作		Abnormal lamp operation	

故障码 P-Code	P2267		
硬件结构		Hardware structure	
			
故障类型描述		Fault Path Type Description	
油水分离指示灯驱动电路对电源短路		Short circuit to battery error of Water in Fuel Lamp	
故障发生的可能原因		Possible Cause	
ECU 到灯的线路出现短路		Short circuit from the ECU to the lamp	
检查项目		Check Items	
检测 ECU 到灯之间的线路故障		Check the error from ECU and the lamp	
可能的影响		Possible Symptom	
灯常灭		Lamp always off	

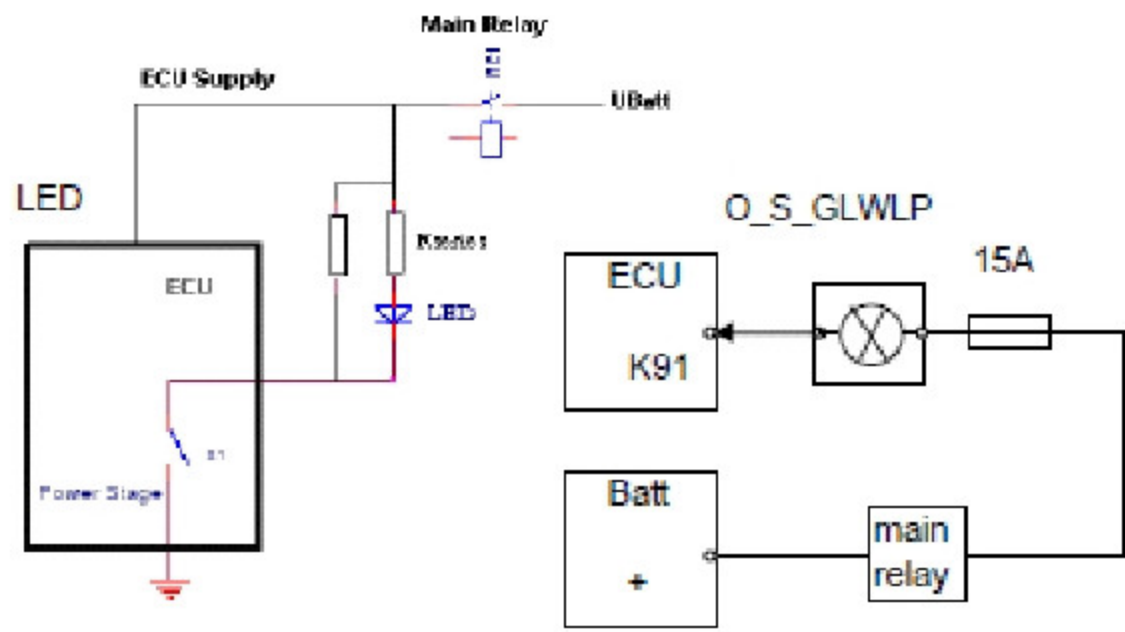
故障码 P-Code	P2266		
硬件结构		Hardware structure	
 The diagram illustrates the electrical circuit for the Water in Fuel (WIF) indicator. On the left, the ECU (Engine Control Unit) is shown with its internal 'Power Stage' and a switch labeled 'W'. The ECU is connected to an 'ECU Supply' line. This supply line branches: one path goes through a 'Main Relay' (containing a coil and a switch) to 'UBatt' (battery voltage); another path goes through a 'Series' resistor and an 'LED' to ground. The 'Lamp' circuit is shown on the right, consisting of the ECU, a 15A fuse, and the 'Lamp' (represented by a circle with an 'X'). The 'Lamp' is connected to the 'Batt' (battery) through a 'main relay'.			
故障类型描述		Fault Path Type Description	
油水分离指示灯驱动电路对地短路		Short circuit to ground error of Water in Fuel Lamp	
故障发生的可能原因		Possible Cause	
ECU 到灯的线路出现短路		Short circuit from the ECU to the lamp	
检查项目		Check Items	
检测 ECU 到灯之间的线路故障		Check the error from ECU and the lamp	
可能的影响		Possible Symptom	
灯常亮		Lamp always on	

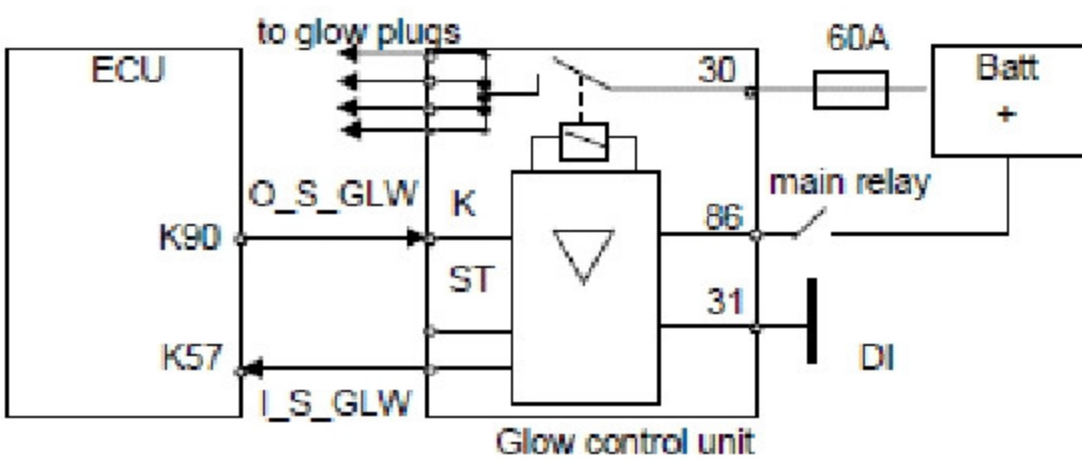
故障码 P-Code	P2269		
硬件结构		Hardware structure	
			
故障类型描述		Fault Path Type Description	
油水分离传感器自检故障（传感器损坏）		Max threshold error for the Water in Fuel sensor self test	
故障发生的可能原因		Possible Cause	
油中有水传感器已坏，如对电源短路（该错误只在上电后自检过程中报出）		Damaged water-in-the-oil sensor, such as short circuit to battery (the error message displayed after powered on and during the self check)	
检查项目		Check Items	
检查油中有水传感器电路,本身的工作特性或更换油中有水传感器		Check the circuits of the water-in-the-oil sensor, and its characteristics or replace the sensor	
可能的影响		Possible Symptom	
油含水指示灯显示会不正常		Water-in-the-oil indicator in abnormal operation	

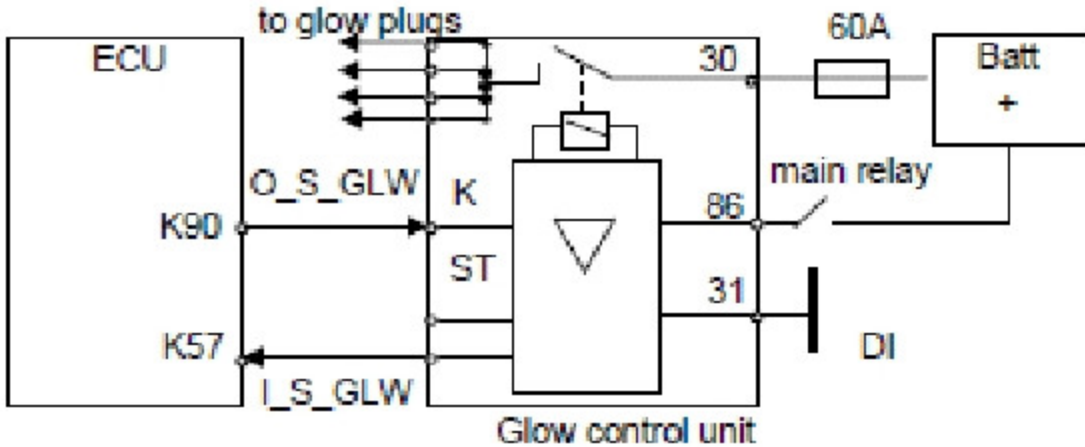
故障码 P-Code	P2265		
硬件结构		Hardware structure	
			
故障类型描述		Fault Path Type Description	
油水分离检测水位过高问题		error to report detection of water in fuel	
故障发生的可能原因		Possible Cause	
油中有水传感器信号线与电源短，油中含水量高，传感器工作不正常等		Signal wire of water-in-the-oil sensor short circuit to battery, high water content in the oil, sensor in abnormal operation etc	
检查项目		Check Items	
检查油中有水传感器电路,本身的工作特性或更换油中有水传感器，检查油中含水量是否太高		Check the circuits of water-in-the-oil sensor and its characteristics, or replace the water-in-the-oil sensor, and check if the water content in the oil is too high	
可能的影响		Possible Symptom	
发动机扭矩受限，油中有水指示灯亮		Limited engine torque, water-in-the-oil indicator on	

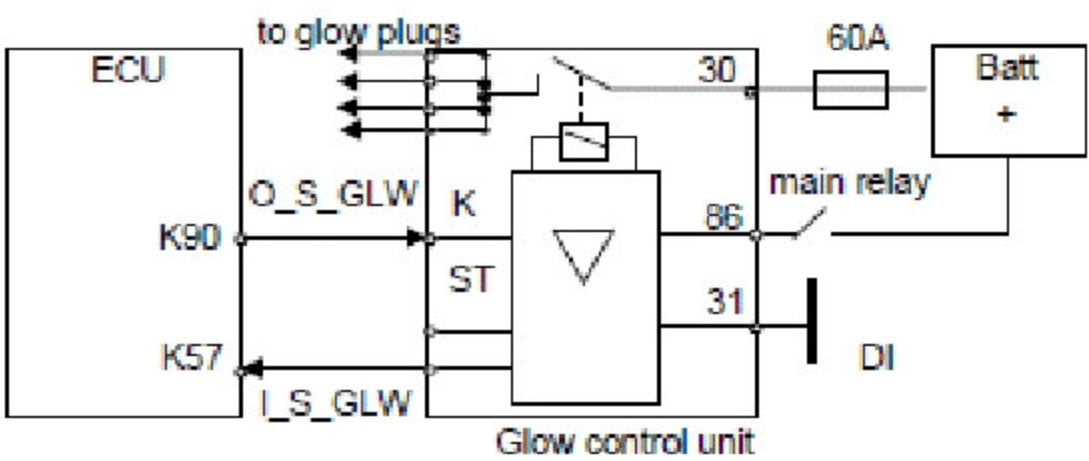
故障码 P-Code	P160A		
硬件结构		Hardware structure	
			
故障类型描述		Fault Path Type Description	
预热指示灯开路		No load error of Glow Lamp	
故障发生的可能原因		Possible Cause	
ECU 到灯的线路出现开路		Open circuit from the ECU to the lamp	
检查项目		Check Items	
检测 ECU 到灯之间的线路故障		Check the error from ECU and the lamp	
可能的影响		Possible Symptom	
灯常灭		Lamp always off	

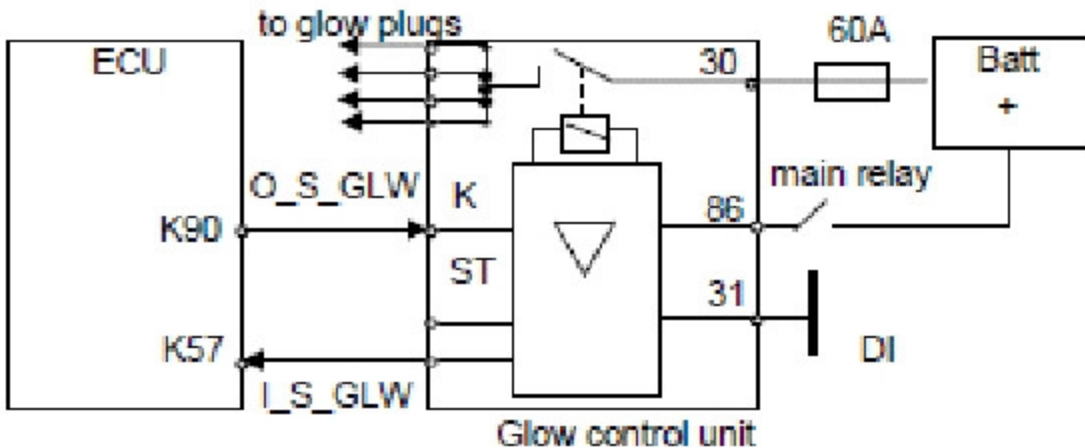
故障码 P-Code	P1608		
硬件结构		Hardware structure	
The diagram illustrates the electrical system for the glow lamp (GLWLP) and the main relay. The ECU (K91) is connected to the battery (Batt) via the main relay. The ECU's Power Stage is connected to the glow lamp (GLWLP) through the O_S_GLWLP output. A short circuit is shown between the ECU and the glow lamp, which is the cause of the P1608 fault. The main relay is connected to the battery (Batt) and the glow lamp (GLWLP) through a 15A fuse. The ECU supply is connected to the battery (Batt) via the Main Relay and the U-Batt terminal. The LED is connected to the ECU supply and the Power Stage.			
故障类型描述		Fault Path Type Description	
预热指示灯对电源短路		Short circuit to battery error of Glow Lamp	
故障发生的可能原因		Possible Cause	
ECU 到灯的线路出现短路		Short circuit from the ECU to the lamp	
检查项目		Check Items	
检测 ECU 到灯之间的线路故障		Check the error from ECU and the lamp	
可能的影响		Possible Symptom	
灯常灭		Lamp always off	

故障码 P-Code	P1609		
硬件结构		Hardware structure	
 The diagram illustrates the electrical system for the glow lamp. It shows the ECU (Engine Control Unit) connected to the Main Relay and the LED. The Main Relay is connected to the battery (Batt) and the glow lamp. The LED is connected to the ECU and the glow lamp. The glow lamp is connected to the battery and the main relay. The diagram also shows the ECU's internal components, including the Power Stage and the LED. The glow lamp is labeled with 'O_S_GLWLP' and '15A'. The battery is labeled 'Batt' and 'main relay'.			
故障类型描述		Fault Path Type Description	
预热指示灯对地短路		Short circuit to ground error of Glow Lamp	
故障发生的可能原因		Possible Cause	
ECU 到灯的线路出现短路		Short circuit from the ECU to the lamp	
检查项目		Check Items	
检测 ECU 到灯之间的线路故障		Check the error from ECU and the lamp	
可能的影响		Possible Symptom	
灯常亮		Lamp always on	

故障码 P-Code	P0670		
硬件结构		Hardware structure	
 The diagram illustrates the electrical system for the Glow control unit. The ECU (Engine Control Unit) is connected to the Glow control unit via two control lines: O_S_GLW (K90) and I_S_GLW (K57). The Glow control unit is connected to the main relay (30, 86, 31) and the battery (Batt +). The main relay is connected to the battery through a 60A fuse. The Glow control unit also has a diagnostic input (DI) connected to the 31 pin. The Glow control unit is labeled 'Glow control unit' and has a 'to glow plugs' output.			
故障类型描述		Fault Path Type Description	
预热塞标准电压系统开路		No load error for Standard Voltage System	
故障发生的可能原因		Possible Cause	
ECU 驱动 Glow 的控制输出端开路 (67 号线开路)		Control output end of ECU for driving Glow open circuit (67 open circuit)	
检查项目		Check Items	
检查 Glow 控制电路，是否控制端开路		Check Glow control circuit to see if the control end open circuit	
可能的影响		Possible Symptom	
Glow 不工作		Glow not working	

故障码 P-Code	P160C		
硬件结构		Hardware structure	
			
故障类型描述		Fault Path Type Description	
预热塞标准电压系统 ECU 驱动级温度过高		Over temperature error on ECU powerstage for Glow plug Standard Voltage System	
故障发生的可能原因		Possible Cause	
ECU 驱动 Glow 的控制模块过热		Control module of ECU for driving Glow over temperature	
检查项目		Check Items	
检查 Glow 控制模块是否过热，或更换 ECU		Check if the Glow control module over temperature or replace ECU	
可能的影响		Possible Symptom	
Glow 不工作		Glow not working	

故障码 P-Code	P0384		
硬件结构		Hardware structure	
 The diagram illustrates the electrical circuit for the Glow control unit. On the left, the ECU (Engine Control Unit) is shown with two pins: K90 (O_S_GLW) and K57 (I_S_GLW). The Glow control unit is a central component with terminals 30, 86, and 31. A 60A fuse is connected between the battery (+) and terminal 30. A main relay is connected between terminal 86 and the battery (+). A DI (Diagnostic Interface) is connected to terminal 31. The Glow control unit also has a switch labeled 'to glow plugs' connected to terminal 30. The ECU pin K90 is connected to terminal K of the Glow control unit, and K57 is connected to terminal ST. The Glow control unit has a triangle symbol on its front face.			
故障类型描述		Fault Path Type Description	
预热塞驱动电路对电源短路		Short circuit to battery error for Standard Voltage System	
故障发生的可能原因		Possible Cause	
ECU 驱动 Glow 的控制输出端与电源, 高电平短路		Control output end of ECU for driving Glow short circuit to battery, high level	
检查项目		Check Items	
检查 Glow 控制电路, 是否控制端与电源, 高电平短路		Check the Glow control circuit to see if the control end short circuit to battery, high level	
可能的影响		Possible Symptom	
Glow 不工作		Glow not working	

故障码 P-Code	P0383		
硬件结构		Hardware structure	
 The diagram illustrates the electrical circuit for the glow plug system. On the left, the ECU (Engine Control Unit) is shown with two pins: K90 labeled 'O_S_GLW' and K57 labeled 'I_S_GLW'. The 'O_S_GLW' pin is connected to the 'K' terminal of the 'Glow control unit'. The 'I_S_GLW' pin is connected to the 'ST' terminal of the 'Glow control unit'. The 'Glow control unit' has three output terminals: '30' which goes 'to glow plugs', '86' which is connected to the 'main relay', and '31' which is connected to a 'DI' (Diagnostic Indicator) lamp. The 'main relay' is a 60A relay with its other terminal connected to the positive terminal of the 'Batt' (Battery). The battery is represented by a box with a '+' sign.			
故障类型描述		Fault Path Type Description	
预热塞驱动电路对地短路		Short circuit to ground error for Standard Voltage System	
故障发生的可能原因		Possible Cause	
ECU 驱动 Glow 的控制输出端对地，低电平短路		Control output end of ECU for driving Glow short circuit to ground, low level	
检查项目		Check Items	
检查 Glow 控制电路,是否控制端与地,低电平短路		Check the Glow control circuit to see if the control end short circuit to ground, low level	
可能的影响		Possible Symptom	
Glow 始终处于工作状态		Glow always in work status	

故障码 P-Code	P1645
故障类型描述	Fault Path Type Description
喷油次数被 ECU 充电模块能力限制	Number of injections is limited by charge balance of booster capacity
故障发生的可能原因	Possible Cause
喷油器 ,ECU 芯片等工作不正常	Injector and ECU chip etc. in abnormal operation
检查项目	Check Items
检查喷油器 ,ECU 工作情况	Check the working conditions of injector and ECU
可能的影响	Possible Symptom
系统无明显反应	No obvious response from the system

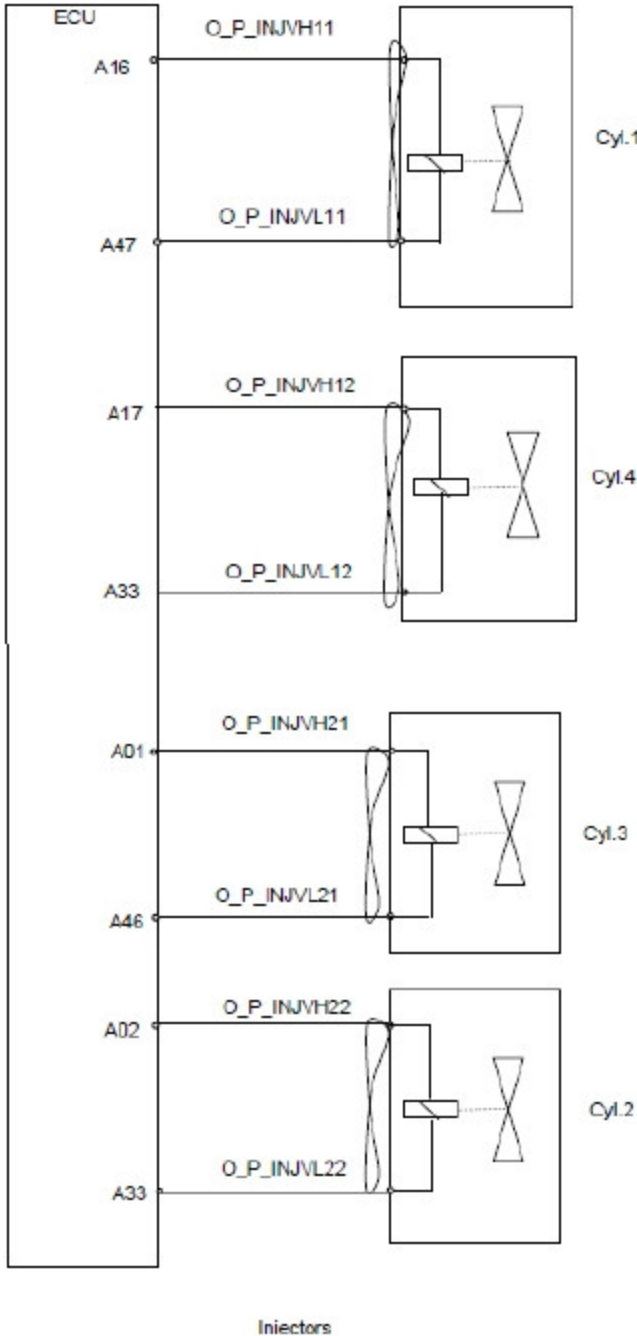
故障码 P-Code	P1646
故障类型描述	Fault Path Type Description
喷油次数被高压油泵油量平衡限制	Number of injections is limited by quantity balance of high pressure pump
故障发生的可能原因	Possible Cause
喷油器 ,ECU 芯片等工作不正常	Injector and ECU chip etc. in abnormal operation
检查项目	Check Items
检查喷油器 ,ECU 工作情况	Check the working conditions of injector and ECU
可能的影响	Possible Symptom
系统无明显反应	No obvious response from the system

故障码 P-Code	P0611
故障类型描述	Fault Path Type Description
喷油次数被系统限制	Number of injections is limited by system
故障发生的可能原因	Possible Cause
喷油器 ,ECU 芯片等工作不正常	Injector and ECU chip etc. in abnormal operation
检查项目	Check Items
检查喷油器 ,ECU 工作情况	Check the working conditions of injector and ECU
可能的影响	Possible Symptom
系统无明显反应	No obvious response from the system

故障码 P-Code	P1647	
故障类型描述	Fault Path Type Description	
喷油次数被运行时间限制	Number of injections is limited by runtime	
故障发生的可能原因	Possible Cause	
喷油器 ,ECU 芯片等工作不正常	Injector and ECU chip etc. in abnormal operation	
检查项目	Check Items	
检查喷油器 ,ECU 工作情况	Check the working conditions of injector and ECU	
可能的影响	Possible Symptom	
系统无明显反应	No obvious response from the system	

故障码 P-Code	P2290	
故障类型描述	Fault Path Type Description	
最小轨压检查错误	Check of minimum rail pressure	
故障发生的可能原因	Possible Cause	
喷油器 ,ECU 芯片等工作不正常	Injector and ECU chip etc. in abnormal operation	
检查项目	Check Items	
检查喷油器 ,ECU 工作情况	Check the working conditions of injector and ECU	
可能的影响	Possible Symptom	
系统无明显反应	No obvious response from the system	

故障码 P-Code	P0263		
硬件结构	Hardware structure		
ECU A16 A47 A17 A33 A01 A46 A02 A33 O_P_INJVH11 O_P_INJVL11 O_P_INJVH12 O_P_INJVL12 O_P_INJVH21 O_P_INJVL21 O_P_INJVH22 O_P_INJVL22 Cyl.1 Cyl.4 Cyl.3 Cyl.2 Injectors			
故障类型描述	Fault Path Type Description		
发火顺序 1 缸无油量修正	Check of missing injector adjustment value programming of Cylinder 1		
故障发生的可能原因	Possible Cause		
未刷喷油器修正码（IQA 码）或刷错等	No injector correction code written (IQA code) or written with wrong code etc		
检查项目	Check Items		
检测 IQA 码	Check the IQA code		
可能的影响	Possible Symptom		
喷油器修正不正确可能会有冒烟等不正常的燃烧现象发生	Poor combustion with smoke etc. due to incorrect rectification of injector		

故障码 P-Code	P0266		
硬件结构		Hardware structure	
			
故障类型描述		Fault Path Type Description	
发火顺序 2 缸无油量修正		Check of missing injector adjustment value programming of Cylinder 2	
故障发生的可能原因		Possible Cause	
未刷喷油器修正码（IQA 码）或刷错等		No injector correction code written (IQA code) or written with wrong code etc	
检查项目		Check Items	
检测 IQA 码		Check the IQA code	
可能的影响		Possible Symptom	
喷油器修正不正确可能会有冒烟等不正常的燃烧现象发生		Poor combustion with smoke etc. due to incorrect rectification of injector	

故障码 P-Code	P0269		
硬件结构	Hardware structure		
ECU A16 O_P_INJVH11 A47 O_P_INJVL11 A17 O_P_INJVH12 A33 O_P_INJVL12 A01 O_P_INJVH21 A46 O_P_INJVL21 A02 O_P_INJVH22 A33 O_P_INJVL22 <			

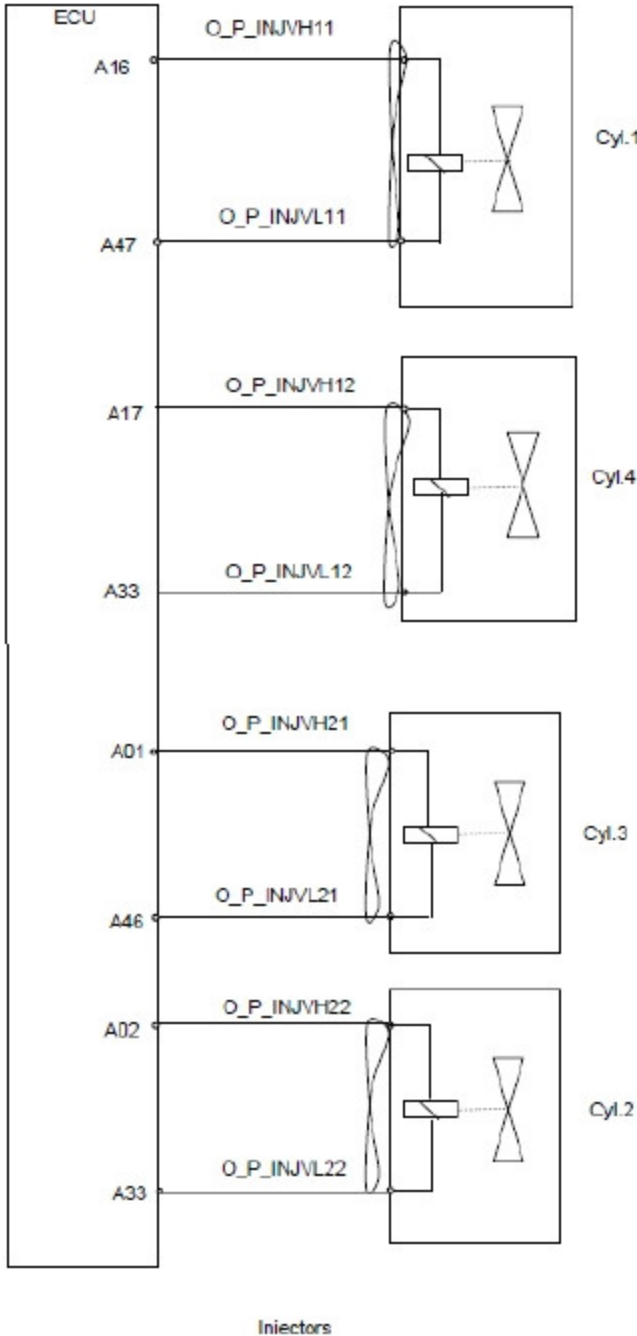
Cyl.1

Cyl.4

Cyl.3

Cyl.2

Injectors

故障码 P-Code	P0272		
硬件结构	Hardware structure		
 ECU O_P_INJVH11 A16 O_P_INJVL11 A47 Cyl.1 O_P_INJVH12 A17 O_P_INJVL12 A33 Cyl.4 O_P_INJVH21 A01 O_P_INJVL21 A46 Cyl.3 O_P_INJVH22 A02 O_P_INJVL22 A33 Cyl.2 Injectors			
故障类型描述	Fault Path Type Description		
发火顺序 4 缸无油量修正	Check of missing injector adjustment value programming of Cylinder 4		
故障发生的可能原因	Possible Cause		
未刷喷油器修正码（IQA 码）或刷错等	No injector correction code written (IQA code) or written with wrong code etc		
检查项目	Check Items		
检测 IQA 码	Check the IQA code		
可能的影响	Possible Symptom		
喷油器修正不正确可能会有冒烟等不正常的燃烧现象发生	Poor combustion with smoke etc. due to incorrect rectification of injector		

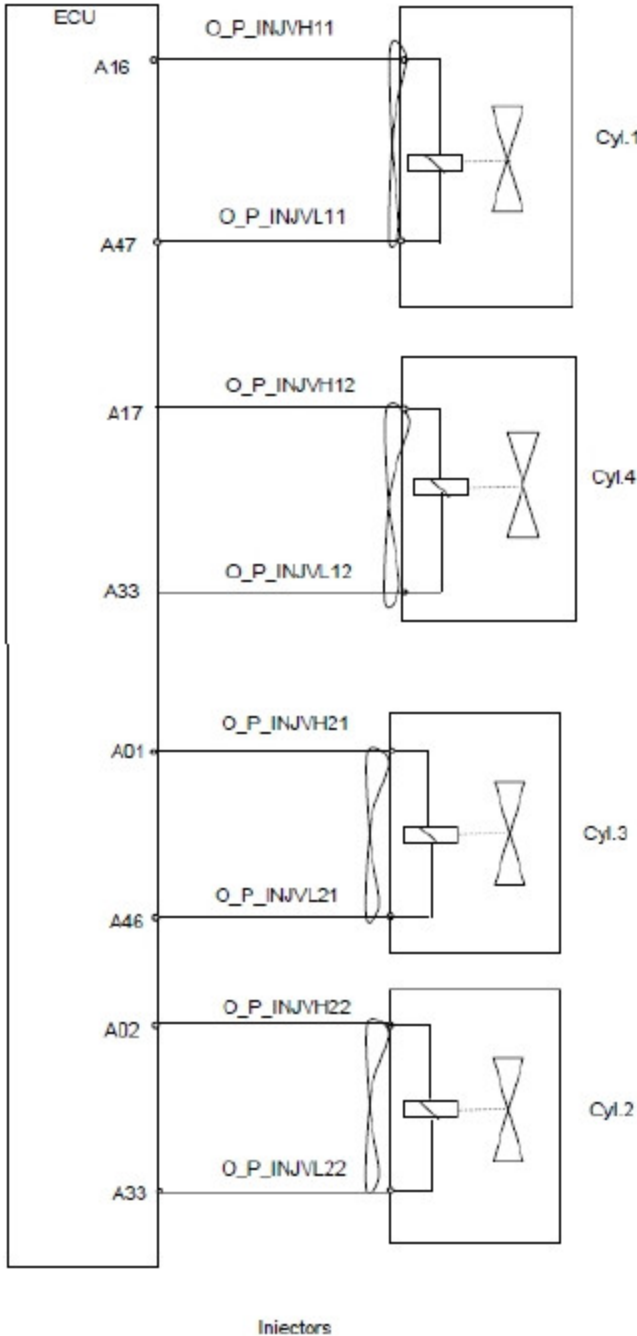
故障码 P-Code	P2146
硬件结构	Hardware structure
ECU A16 A47 A17 A33 A01 A46 A02 A33 O_P_INJVH11 O_P_INJVL11 O_P_INJVH12 O_P_INJVL12 O_P_INJVH21 O_P_INJVL21 O_P_INJVH22 O_P_INJVL22 Cyl.1 Cyl.4 Cyl.3 Cyl.2 Injectors	
故障类型描述	Fault Path Type Description
喷油器控制模块 1 （线束）短路故障	Short circuit of Injector control moudle 1
故障发生的可能原因	Possible Cause
喷油器供电模块短路	Injector supply module short circuit
检查项目	Check Items
检测喷油器电路	Check the Injector circuit
可能的影响	Possible Symptom
停机	Stop

故障码 P-Code	P2149		
硬件结构		Hardware structure	
The diagram illustrates the hardware structure for the P2149 fault. It shows the ECU (Electronic Control Unit) connected to four injectors (Cyl.1, Cyl.4, Cyl.3, Cyl.2). Each injector has a high-pressure line (O_P_INJVH) and a low-pressure line (O_P_INJVL) connected to the ECU. A short circuit is indicated between the high-pressure lines of Cyl.1 and Cyl.4. ECU A16 O_P_INJVH11 A47 O_P_INJVL11 Cyl.1 A17 O_P_INJVH12 A33 O_P_INJVL12 Cyl.4 A01 O_P_INJVH21 A46 O_P_INJVL21 Cyl.3 A02 O_P_INJVH22 A33 O_P_INJVL22 Cyl.2 Injectors			
故障类型描述		Fault Path Type Description	
喷油器控制模块 2（线束）短路故障		Short circuit of Injector control moudle 2	
故障发生的可能原因		Possible Cause	
喷油器供电模块短路		Injector supply module short circuit	
检查项目		Check Items	
检测喷油器电路		Check the Injector circuit	
可能的影响		Possible Symptom	
停机		Stop	

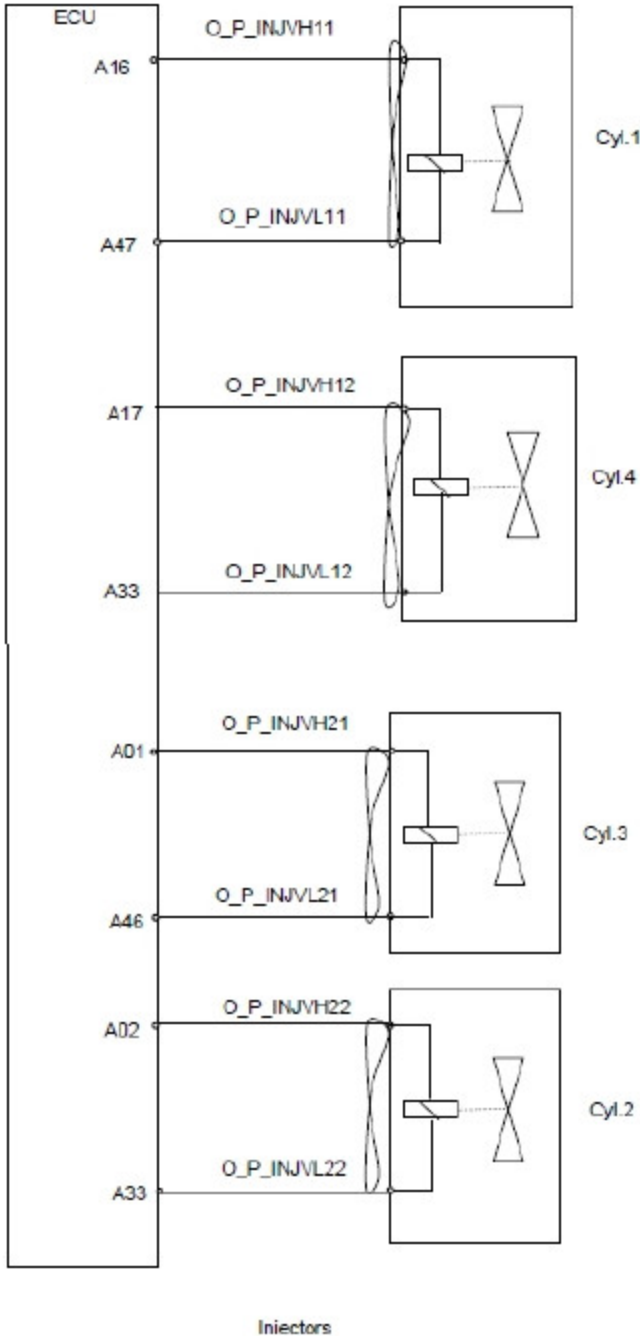
故障码 P-Code	P167B		
硬件结构	Hardware structure		
ECU A16 O_P_INJVH11 A47 O_P_INJVL11 Cyl.1 A17 O_P_INJVH12 A33 O_P_INJVL12 Cyl.4 A01 O_P_INJVH21 A46 O_P_INJVL21 Cyl.3 A02 O_P_INJVH22 A33 O_P_INJVL22 Cyl.2 Injectors			
故障类型描述	Fault Path Type Description		
CY33X 被检测到故障	CY33X is defect		
故障发生的可能原因	Possible Cause		
喷油器芯片故障	Injector chip error		
检查项目	Check Items		
检测喷油器芯片	Check injector chip		
可能的影响	Possible Symptom		
停机	Stop		

故障码 P-Code	P0201		
硬件结构	Hardware structure		
The diagram illustrates the electrical and hydraulic connections for four injectors. On the left, the ECU pins are listed: A16, A47, A17, A33, A01, A46, A02, and A33. Each injector (Cyl.1, Cyl.4, Cyl.3, Cyl.2) is represented by a box containing a solenoid valve symbol. The high-pressure line (O_P_INJVH) and low-pressure line (O_P_INJVL) are shown for each. The diagram indicates an open circuit in the high-pressure line for Cyl.1. ECU A16 O_P_INJVH11 A47 O_P_INJVL11 A17 O_P_INJVH12 A33 O_P_INJVL12 A01 O_P_INJVH21 A46 O_P_INJVL21 A02 O_P_INJVH22 A33 O_P_INJVL22 Cyl.1 Cyl.4 Cyl.3 Cyl.2 Injectors			
故障类型描述	Fault Path Type Description		
发火顺序 1 缸喷油器开路	Open load of Cylinder 1 Injector		
故障发生的可能原因	Possible Cause		
发火顺序 1 缸开路	Cylinder 1 (in firing order) open circuit		
检查项目	Check Items		
检测相关缸的喷油器电路	Check the injector circuit of related cylinder		
可能的影响	Possible Symptom		
发动机在缺缸情况下工作，抖动，如果该动力不足以维持发动机克服摩擦，则会停机	The engine vibrates when the cylinder not in operation, and stops if the power is not enough to support the engine to overcome the friction		

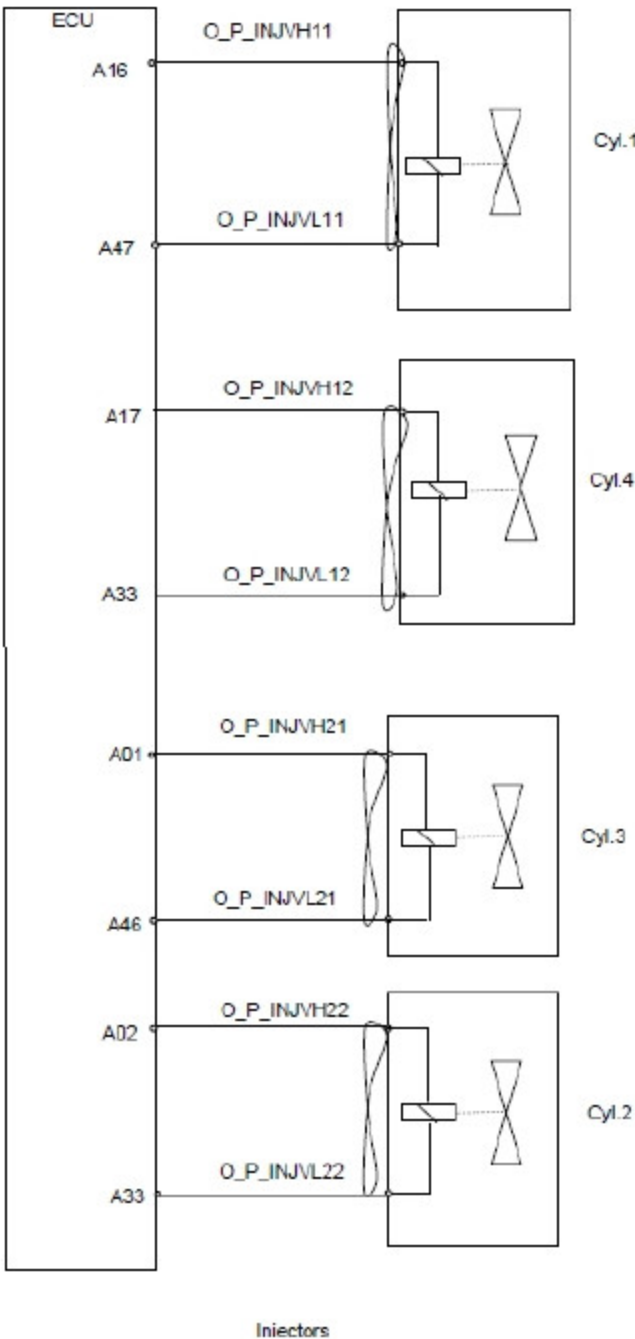
故障码 P-Code	P0202
硬件结构	Hardware structure
ECU A16 A47 A17 A33 A01 A46 A02 A33 O_P_INJ/VH11 O_P_INJ/VL11 O_P_INJ/VH12 O_P_INJ/VL12 O_P_INJ/VH21 O_P_INJ/VL21 O_P_INJ/VH22 O_P_INJ/VL22 Cyl.1 Cyl.4 Cyl.3 Cyl.2 Injectors	
故障类型描述	Fault Path Type Description
发火顺序 2 缸喷油器开路	Open load of Cylinder 2 Injector
故障发生的可能原因	Possible Cause
发火顺序 2 缸开路	Cylinder 2 (in firing order) open circuit
检查项目	Check Items
检测相关缸的喷油器电路	Check the injector circuit of related cylinder
可能的影响	Possible Symptom
发动机在缺缸情况下工作，抖动，如果该动力不足以维持发动机克服摩擦，则会停机	The engine vibrates when the cylinder not in operation, and stops if the power is not enough to support the engine to overcome the friction

故障码 P-Code	P0203		
硬件结构	Hardware structure		
 ECU O_P_INJVH11 A16 O_P_INJVL11 A47 Cyl.1 O_P_INJVH12 A17 O_P_INJVL12 A33 Cyl.4 O_P_INJVH21 A01 O_P_INJVL21 A46 Cyl.3 O_P_INJVH22 A02 O_P_INJVL22 A33 Cyl.2 Injectors			
故障类型描述	Fault Path Type Description		
发火顺序 3 缸开路	Cylinder 3 (in firing order) open circuit		
故障发生的可能原因	Possible Cause		
发火顺序 3 缸开路	Cylinder 2 (in firing order) open circuit		
检查项目	Check Items		
检测相关缸的喷油器电路	Check the injector circuit of related cylinder		
可能的影响	Possible Symptom		
发动机在缺缸情况下工作，抖动，如果该动力不足以维持发动机克服摩擦，则会停机	The engine vibrates when the cylinder not in operation, and stops if the power is not enough to support the engine to overcome the friction		

故障码 P-Code	P0204		
硬件结构	Hardware structure		
ECU O_P_INJVH11 A16 O_P_INJVL11 A47 Cyl.1 O_P_INJVH12 A17 O_P_INJVL12 A33 Cyl.4 O_P_INJVH21 A01 O_P_INJVL21 A46 Cyl.3 O_P_INJVH22 A02 O_P_INJVL22 A33 Cyl.2 Injectors			
故障类型描述	Fault Path Type Description		
发火顺序 4 缸喷油器开路	Open load of Cylinder 4 Injector		
故障发生的可能原因	Possible Cause		
发火顺序 4 缸开路	Cylinder 4 (in firing order) open circuit		
检查项目	Check Items		
检测相关缸的喷油器电路	Check the injector circuit of related cylinder		
可能的影响	Possible Symptom		
发动机在缺缸情况下工作，抖动，如果该动力不足以维持发动机克服摩擦，则会停机	The engine vibrates when the cylinder not in operation, and stops if the power is not enough to support the engine to overcome the friction		

故障码 P-Code	P1207		
硬件结构		Hardware structure	
			
故障类型描述		Fault Path Type Description	
发火顺序 1 缸特殊故障（自定义）		Special pattern for special cases of Cylinder 1	
故障发生的可能原因		Possible Cause	
自定义故障		User-defined fault	
检查项目		Check Items	
检查喷油器		Check injector	
可能的影响		Possible Symptom	
系统无明显反应		No obvious response from the system	

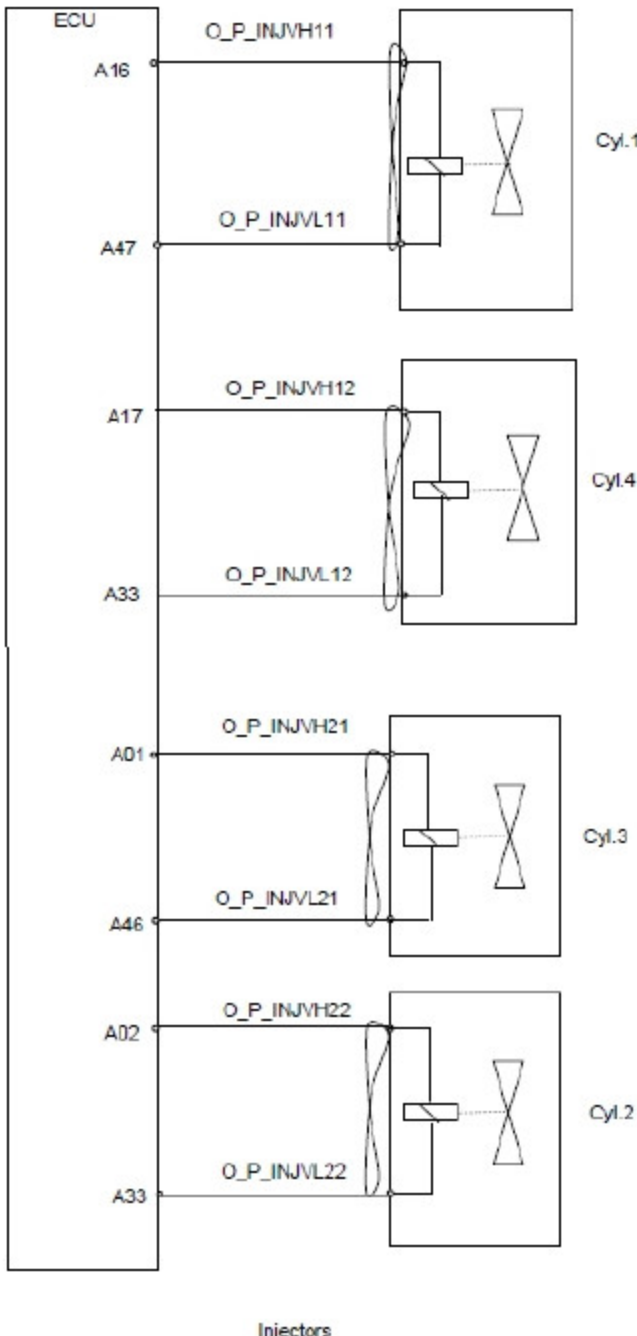
故障码 P-Code	P1208		
硬件结构	Hardware structure		
ECU A16 A47 A17 A33 A01 A46 A02 A33 O_P_INJVH11 O_P_INJVL11 O_P_INJVH12 O_P_INJVL12 O_P_INJVH21 O_P_INJVL21 O_P_INJVH22 O_P_INJVL22 Cyl.1 Cyl.4 Cyl.3 Cyl.2 Injectors			
故障类型描述	Fault Path Type Description		
发火顺序 2 缸特殊故障（自定义）	Special pattern for special cases of Cylinder 2		
故障发生的可能原因	Possible Cause		
自定义故障	User-defined fault		
检查项目	Check Items		
检查喷油器	Check injector		
可能的影响	Possible Symptom		
系统无明显反应	No obvious response from the system		

故障码 P-Code	P1209		
硬件结构	Hardware structure		
 ECU O_P_INJVH11 A16 O_P_INJVL11 A47 Cyl.1 O_P_INJVH12 A17 O_P_INJVL12 A33 Cyl.4 O_P_INJVH21 A01 O_P_INJVL21 A46 Cyl.3 O_P_INJVH22 A02 O_P_INJVL22 A33 Cyl.2 Injectors			
故障类型描述	Fault Path Type Description		
发火顺序 3 缸特殊故障（自定义）	Special pattern for special cases of Cylinder 3		
故障发生的可能原因	Possible Cause		
自定义故障	User-defined fault		
检查项目	Check Items		
检查喷油器	Check injector		
可能的影响	Possible Symptom		
系统无明显反应	No obvious response from the system		

故障码 P-Code	P120A		
硬件结构		Hardware structure	
ECU O_P_INJVH11 A16 O_P_INJVL11 A47 Cyl.1 O_P_INJVH12 A17 O_P_INJVL12 A33 Cyl.4 O_P_INJVH21 A01 O_P_INJVL21 A46 Cyl.3 O_P_INJVH22 A02 O_P_INJVL22 A33 Cyl.2 Injectors			
故障类型描述		Fault Path Type Description	
发火顺序 4 缸特殊故障 （自定义）		Special pattern for special cases of Cylinder 4	
故障发生的可能原因		Possible Cause	
自定义故障		User-defined fault	
检查项目		Check Items	
检查喷油器		Check injector	
可能的影响		Possible Symptom	
系统无明显反应		No obvious response from the system	

故障码 P-Code	P121A		
硬件结构		Hardware structure	
The diagram illustrates the electrical connections for four injectors (Cyl.1, Cyl.4, Cyl.3, and Cyl.2) to the ECU. Each injector is represented by a box containing a solenoid valve symbol. The ECU pins are connected to the valve coils as follows: Cyl.1: ECU pin A16 to O_P_INJVH11, ECU pin A47 to O_P_INJVL11. Cyl.4: ECU pin A17 to O_P_INJVH12, ECU pin A33 to O_P_INJVL12. Cyl.3: ECU pin A01 to O_P_INJVH21, ECU pin A46 to O_P_INJVL21. Cyl.2: ECU pin A02 to O_P_INJVH22, ECU pin A33 to O_P_INJVL22. A common ground connection A33 is shown at the bottom, labeled "Injectors".			
故障类型描述		Fault Path Type Description	
发火顺序第 1 缸插头一般性短路		General short circuit of Cylinder 1 pin	
故障发生的可能原因		Possible Cause	
发火顺序 1 缸与电源短路		Cylinder 1 (in firing order) short circuit to battery	
检查项目		Check Items	
检测相关缸的喷油器电路		Check the injector circuit of related cylinder	
可能的影响		Possible Symptom	
停机		Stop	

故障码 P-Code	P121B
硬件结构	Hardware structure
故障类型描述	Fault Path Type Description
发火顺序第 2 缸插头一般性短路	General short circuit of Cylinder 2 pin
故障发生的可能原因	Possible Cause
发火顺序 2 缸与电源短路	Cylinder 2 (in firing order) short circuit to battery
检查项目	Check Items
检测相关缸的喷油器电路	Check the injector circuit of related cylinder
可能的影响	Possible Symptom
停机	Stop

故障码 P-Code	P121C		
硬件结构	Hardware structure		
 The diagram illustrates the hardware structure for the injectors. It shows four cylinders (Cyl.1, Cyl.4, Cyl.3, and Cyl.2) connected to the ECU. Each cylinder has two injector lines (VH and VL) and a common return line (A33). A short circuit is indicated on the Cyl.3 VL line. ECU A16 O_P_INJVH11 A47 O_P_INJVL11 Cyl.1 A17 O_P_INJVH12 A33 O_P_INJVL12 Cyl.4 A01 O_P_INJVH21 A46 O_P_INJVL21 Cyl.3 A02 O_P_INJVH22 A33 O_P_INJVL22 Cyl.2 Injectors			
故障类型描述	Fault Path Type Description		
发火顺序第 3 缸插头一般性短路	General short circuit of Cylinder 3 pin		
故障发生的可能原因	Possible Cause		
发火顺序 3 缸与电源短路	Cylinder 3 (in firing order) short circuit to battery		
检查项目	Check Items		
检测相关缸的喷油器电路	Check the injector circuit of related cylinder		
可能的影响	Possible Symptom		
停机	Stop		

故障码 P-Code	P121D		
硬件结构	Hardware structure		
ECU A16 O_P_INJVH11 A47 O_P_INJVL11 A17 O_P_INJVH12 A33 O_P_INJVL12 A01 O_P_INJVH21 A46 O_P_INJVL21 A02 O_P_INJVH22 A33 O_P_INJVL22 </			

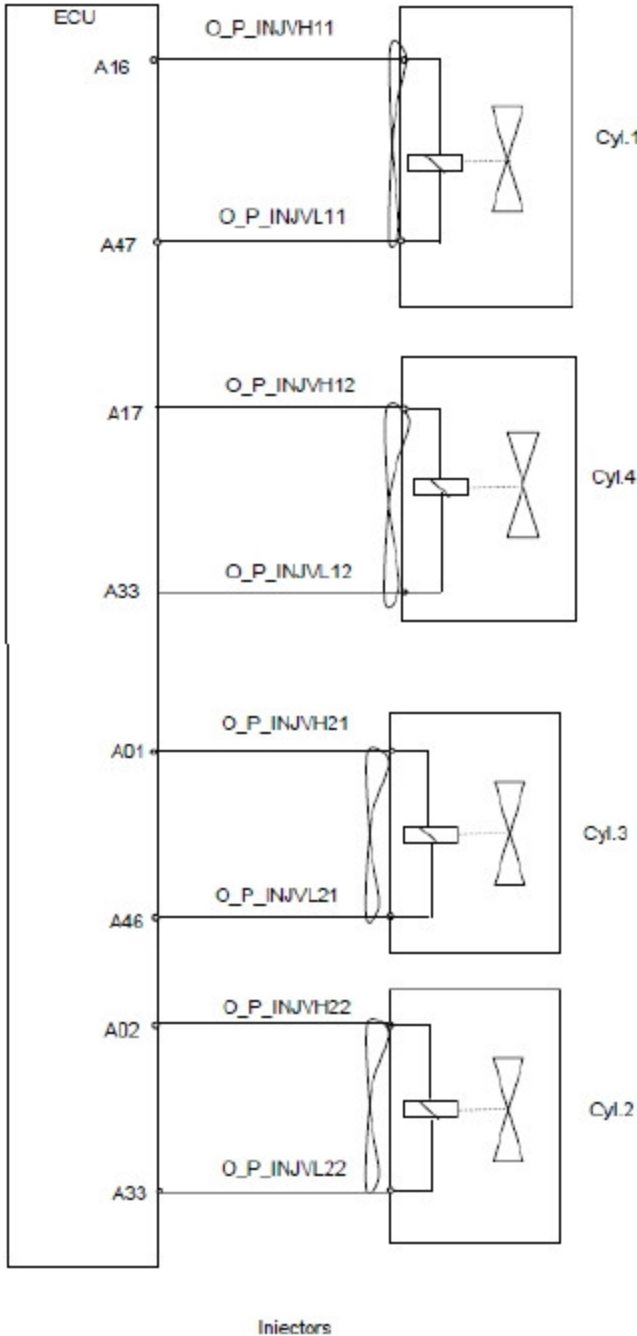
Cyl.1

Cyl.4

Cyl.3

Cyl.2

Injectors

故障码 P-Code	P1200		
硬件结构	Hardware structure		
			
故障类型描述	Fault Path Type Description		
发火顺序 1 缸高端与低端短路	Short circuit of high end and low end of cylinder 1 (in firing order)		
故障发生的可能原因	Possible Cause		
发火顺序 1 缸高端与低端短路	Short circuit of high end and low end of cylinder 1 (in firing order)		
检查项目	Check Items		
检测相关缸的喷油器电路	Check the injector circuit of related cylinder		
可能的影响	Possible Symptom		
停机	Stop		

故障码 P-Code	P1201		
硬件结构	Hardware structure		
ECU O_P_INJVH11 A16 O_P_INJVL11 A47 Cyl.1 O_P_INJVH12 A17 O_P_INJVL12 A33 Cyl.4 O_P_INJVH21 A01 O_P_INJVL21 A46 Cyl.3 O_P_INJVH22 A02 O_P_INJVL22 A33 Cyl.2 Injectors			
故障类型描述	Fault Path Type Description		
发火顺序第 2 缸线束低端对高端短路	Short circuit Low Side to High Side of Cylinder 2 wiring		
故障发生的可能原因	Possible Cause		
发火顺序 2 缸高端与低端短路	Short circuit of high end and low end of cylinder 2 (in firing order)		
检查项目	Check Items		
检测相关缸的喷油器电路	Check the injector circuit of related cylinder		
可能的影响	Possible Symptom		
停机	Stop		

故障码 P-Code	P1202		
硬件结构	Hardware structure		
ECU A16 O_P_INJVH11 A47 O_P_INJVL11 Cyl.1 A17 O_P_INJVH12 A33 O_P_INJVL12 Cyl.4 A01 O_P_INJVH21 A46 O_P_INJVL21 Cyl.3 A02 O_P_INJVH22 A33 O_P_INJVL22 Cyl.2 Injectors			
故障类型描述	Fault Path Type Description		
发火顺序第 3 缸线束低端对高端短路	Short circuit Low Side to High Side of Cylinder 3 wiring		
故障发生的可能原因	Possible Cause		
发火顺序 3 缸高端与低端短路	Short circuit of high end and low end of cylinder 3 (in firing order)		
检查项目	Check Items		
检测相关缸的喷油器电路	Check the injector circuit of related cylinder		
可能的影响	Possible Symptom		
停机	Stop		

故障码 P-Code	P1203		
硬件结构	Hardware structure		
ECU A16 O_P_INJVH11 A47 O_P_INJVL11 Cyl.1 A17 O_P_INJVH12 A33 O_P_INJVL12 Cyl.4 A01 O_P_INJVH21 A46 O_P_INJVL21 Cyl.3 A02 O_P_INJVH22 A33 O_P_INJVL22 Cyl.2 Injectors			
故障类型描述	Fault Path Type Description		
发火顺序第 4 缸线束低端对高端短路	Short circuit Low Side to High Side of Cylinder 4 wiring		
故障发生的可能原因	Possible Cause		
发火顺序 4 缸高端与低端短路	Short circuit of high end and low end of cylinder 4 (in firing order)		
检查项目	Check Items		
检测相关缸的喷油器电路	Check the injector circuit of related cylinder		
可能的影响	Possible Symptom		
停机	Stop		