

Figure 1 is a detailed electrical wiring diagram for the engine control system of a 2.0L engine. The diagram is organized into two main sections: the left side for engine components and the right side for auxiliary and diagnostic components. The ECU (Engine Control Unit) is represented by a central vertical line with pins numbered 56 to 28 on the left and 152 to 98 on the right. The left side of the diagram shows the ECU's connection to the PCV relay, preheating indicator, exhaust brake indicator, engine check indicator, main relay, starter motor, starter relay, PTO accelerator position sensor, coolant temperature sensor, fuel temperature sensor, intake temperature sensor, speed sensor, PTO switch, exhaust brake switch, engine stop switch, clutch switch, brake switch, gear switch, air conditioning switch, cruise main switch, cruise set switch, cruise resume switch, cruise cancel switch, diagnostic switch, parking light switch, power ground terminals, and CAN bus lines (CAN1-H, CAN1-L, CAN2-H, CAN2-L). The right side of the diagram shows the ECU's connection to the PCV 1 and PCV 2 valves, injectors 1 through 6, the exhaust brake solenoid valve, the exhaust brake control valve, the speedometer, the diagnostic tool, the speed sensor, the auxiliary speed sensor, the accelerator position sensors 1 and 2, the boost pressure sensor, the oil rail pressure sensor, and the CAN bus lines. The diagram uses standard electrical symbols for relays, switches, sensors, and actuators, and includes a ground symbol for the power ground terminals.

针脚	名称及功能
5	ECU 供电
6	ECU 供电
7	ECU 供电
9	转速表
19	诊断口信号 (K-LINE)
21	加速踏板位置传感器 1 信号
22	加速踏板位置传感器 2 信号
23	PTO 加速踏板位置传感器信号
27	整车车速传感器信号
28	ECU 外壳接地端
32	进气温度传感器信号
35	电源反馈
36	排气制动继电器控制
39	转速传感器屏蔽线
40	转速传感器信号+
41	转速传感器信号-
44	排气制动灯控制信号
45	预热指示灯
46	钥匙开关 ON 挡
48	启动机继电器控制
49	排气制动开关
50	发动机停止开关
53	制动开关
54	增压压力传感器接地
55	冷却液温度传感器接地
56	钥匙开关 ON 挡
57	增压压力传感器电源
60	巡航主开关
61	停车灯开关
65	PTO 加速踏板位置传感器电源+5V
66	空挡开关
67	巡航取消开关
68	诊断请求开关
72、73	信号接地端
74	主继电器控制信号
75	主继电器控制信号
76	电源反馈
77*	离合器开关
79	巡航设定开关
81	空调请求开关
82	故障灯控制信号
89	PTO 开关

针脚	名称及功能
92	巡航恢复开关
95	CAN2-H
98	CAN2-L
103	喷油器 1-H
104	喷油器 3-H
105	喷油器 2-H
106	喷油器 1-L
107	喷油器 3-L
120	辅助转速传感器信号
121	油轨压力传感器信号
123	加速踏板位置传感器 2 电源
125	加速踏板位置传感器 1 电源
126	油轨压力传感器电源
128	增压压力传感器信号
131	辅助转速传感器地
132	油轨压力传感器信号
133	辅助转速传感器电源
134	油轨压力传感器接地
135	加速踏板位置传感器 1 接地
136	加速踏板位置传感器 2 接地
137	喷油器 5-H
138	喷油器 6-H
139	喷油器 4-H
102、140、141	电源地
142	喷油器 6-L
143	喷油器 4-L
150、151	PCV 阀 2 控制
152、153	PCV 阀 1 控制
155	冷却液温度传感器信号
157	CAN1-H
158	CAN1-L
162	燃油温度传感器信号