



东风乘用车

组合仪表



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Instrument Cluster



- 1、熟悉E70组合仪表的组成及各部件的功用
- 2、熟悉E70组合仪表的工作原理
- 3、能对E70组合仪表进行电路的故障诊断与排除
- 4、掌握E70组合仪表相关部件的拆装更换方法及注意事项



1. Familiar with the composition of E70 instrument cluster and functions of its components
2. Familiar with the working principle of the E70 instrument cluster
3. Troubleshoot the E70 instrument cluster
4. Master the removal and refitting and replacement methods and precautions of the related components of the E70 instrument cluster



一、E70组合仪表概述

仪表是反映车辆各个系统工作状况的装置。为了使驾驶员随时观察与掌握汽车各系统的工作状态。

E70采用自发光式仪表，主要包含有车速、里程、续航里程、电池电量、电机电流及各电器元件指示灯或指示信息、各系统报警灯及文字警告等信息。



I. Overview of E70 instrument cluster



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The instrument is a device that reflects the working conditions of each system of the vehicle. The instrument cluster aims to enable the driver to observe and understand the working status of each system of the vehicle at any time.

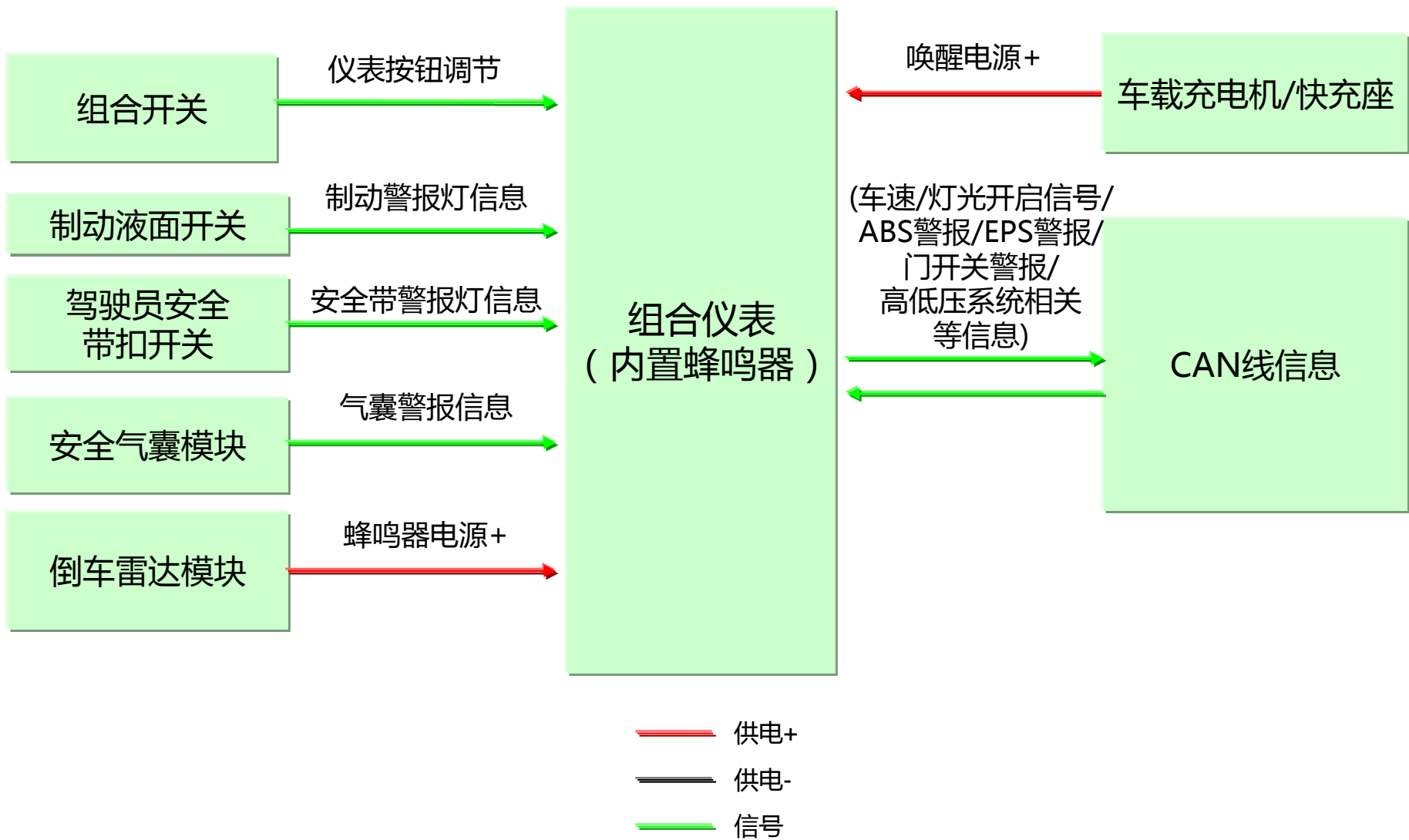
E70 adopts self-illuminating instrument cluster, which mainly shows information such as vehicle speed, mileage, range, battery level, motor current and indicators or indication information of various electrical components, warning lamps and text warnings of various systems.



二、E70组合仪表工作原理及电路图



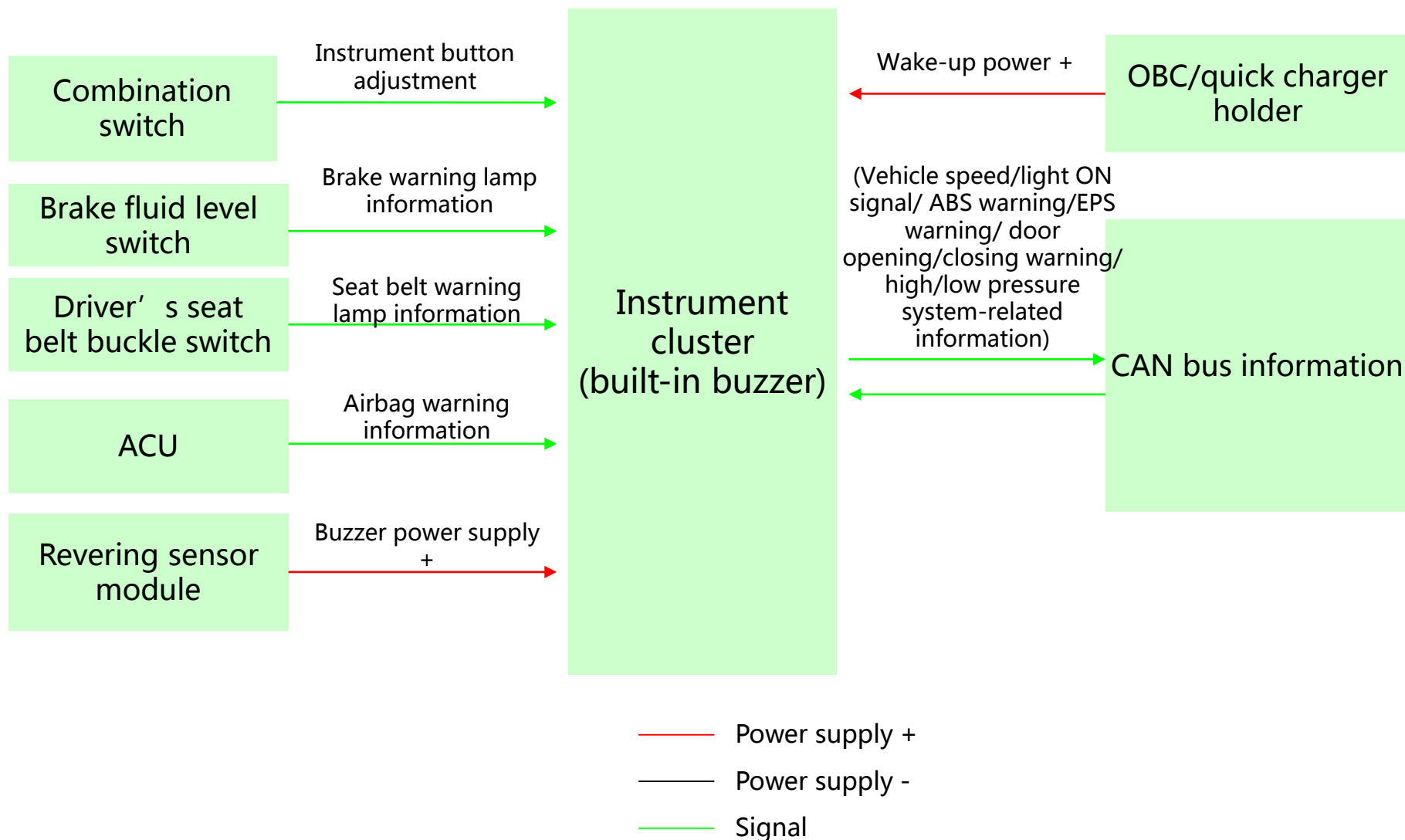
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II. Working principle and circuit diagram of E70 instrument cluster



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三、E70组合仪表指示灯及警报灯说明













指示灯说明

序号	图样	说明	序号	图样	说明
1	 绿色	左转向指示灯	7	 黄色	后雾灯指示灯
2	 绿色	右转向指示灯	8	 绿色	Ready指示灯
3	 绿色	位置灯指示灯	9	 红色	充电连接指示灯
4	 绿色	近光灯指示灯	10	 绿色/绿色	驾驶模式指示灯 (经济/运动模式)
5	 蓝色	远光灯指示灯			
6	 绿色	前雾灯指示灯			

III. Description of indicator lamps and warning lamps of E70 instrument cluster



Description of indicator lamps

S/N	Illustration	Description	S/N	Illustration	Description
1	 Green	Left turn signal indicator lamp	7	 Yellow	Rear fog lamp indicator lamp
2	 Green	Right turn signal indicator lamp	8	 Green	Ready indicator lamp
3	 Green	Position lamp indicator lamp	9	 Red	Charging connection indicator lamp
4	 Green	Low beam indicator lamp	10	 Green/ Green	Driving mode indicator lamp (economical mode/sport mode)
5	 Blue	High beam indicator lamp			
6	 Green	Front fog lamp indicator lamp			

三、E70组合仪表指示灯及警报灯说明



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

警报灯说明

序号	图样	说明	序号	图样	说明
1	 黄色	安全气囊系统故障警报灯	8	 黄色	车辆低电量警报&充电指示灯
2	 红色	安全带未系警报灯	9	 黄色	车辆功能受限警报灯
3	 红色	制动系统故障警报&手刹指示灯	10	 红色	整车高压系统故障警报灯
4	 黄色	ABS制动防抱死系统故障警报灯	11	 红色	动力电池故障警报灯
5	 红色	EPS电子转向助力系统故障警报灯	12	 红色	动力电池温度过高警报灯
6	 黄色	EPB电子驻车制动系统故障警报灯	13	 红色	驱动电机故障警报灯
7	 红色	DC-DC充电系统故障警报灯			

III. Description of indicator lamps and warning lamps of E70 instrument cluster



Description of warning lamps

S/N	Illustration	Description	S/N	Illustration	Description
1	 Yellow	SRS malfunction warning lamp	8	 Yellow	Low battery warning/charging indicator lamp
2	 Red	Seat belt warning lamp	9	 Yellow	Vehicle function limited warning lamp
3	 Red	Brake system malfunction warning & hand brake indicator lamp	10	 Red	High voltage system warning lamp of vehicle
4	 Yellow	ABS malfunction warning lamp	11	 Red	Traction battery malfunction warning lamp
5	 Red	EPS malfunction warning lamp	12	 Red	Traction battery high temperature warning lamp
6	 Yellow	EPB malfunction warning lamp	13	 Red	Drive motor malfunction warning lamp
7	 Red	DC/DC charging system malfunction warning lamp			

四、E70组合仪表维修注意事项



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- 切断电源：当更换仪表板上的部件时，或拆下仪表板总成时，进行这项作业时，**应事先关闭点火开关，后脱开蓄电池负极电缆。**
- 元器件的保管：仪表板备用的元件存放在镀镍包装袋内，应在安装时取出，不可提前，取出时不要碰触导电接头。
- 取下仪表板后应该罩上保护罩，防止仪表板被刮伤。
- 在维修、拆卸安全气囊时，小心操作安全气囊模块，**安全气囊模块一定要朝上放置。**
- 更换任何安全气囊部件时，都要进行自诊断操作，全面检查安全气囊系统功能是否正常。
- 安全气囊展开后，如果前仪表总成损坏，必须更换。
- **禁止使用电气设备对安全气囊系统的任何部件进行电路测试。**

IV. Precautions for service of E70 instrument cluster



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- Power cutoff: be sure to turn off the ignition switch in advance and then disconnect the battery negative cable **when replacing the components on the instrument panel or removing the instrument panel assembly.**
- Preservation of components: the spare components for instrument panel shall be preserved in nickel-plated packing bags and shall be taken out during refitting rather than any time before that. Do not touch the conductive contact during the above operation.
- Cover the instrument panel with protective cover after taking it down to protect it from being scratched.
- Take care to operate the ACU when servicing and removing the airbag, **and be sure to place the ACU upward.**
- Be sure to do self-diagnosis to thoroughly check if the airbag system functions normally when replacing any airbag components.
- After the airbag deploys, the damaged front instrument panel assembly must be replaced.
- **Never use electrical equipment to preform circuit test on any airbag system component.**



按照要求对E70的仪表台进行拆装，并记录仪表内相关元件的位置



Remove and refit the E70 instrument panel as required and record the positions of the relevant components in the instrument panel.