



东风乘用车

# 照明系统



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# Lighting System



- 1、熟悉E70照明系统的组成及各部件的功用
- 2、熟悉E70照明系统的工作原理
- 3、能对E70照明系统进行电路的故障诊断与排除
- 4、掌握E70照明系统相关部件的拆装更换方法及注意事项

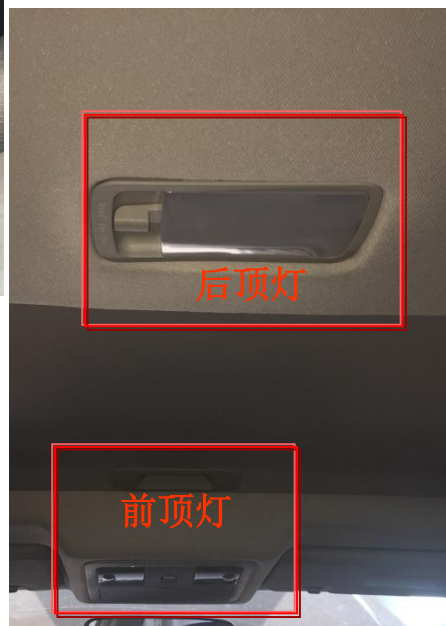


1. Familiar with the composition of the E70 lighting system and the functions of its components
2. Familiar with the working principle of the E70 lighting system
3. Troubleshoot the E70 lighting system
4. Master the removal and refitting and replacement methods and precautions of the E70 lighting system

# 一、E70照明系统概述

- 1、**作用**：（1）车的内部及外部照明（2）给周围车辆及行人提供灯光信号提示
- 2、**包括**：前后位置灯、远光灯、近光灯、日间行车灯、前后侧转向灯、前雾灯、后雾灯、制动灯、倒车灯、车内顶灯、尾箱灯、组合开关

前大灯总成（含位置灯，近远光灯，日间行车，转向灯）



前雾灯



高位制动灯

尾灯总成（含位置灯，转向灯，倒车灯，刹车灯）

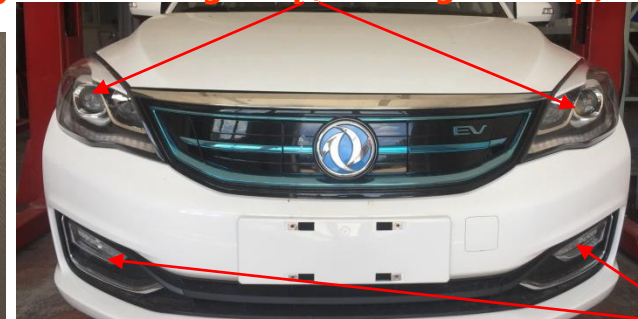
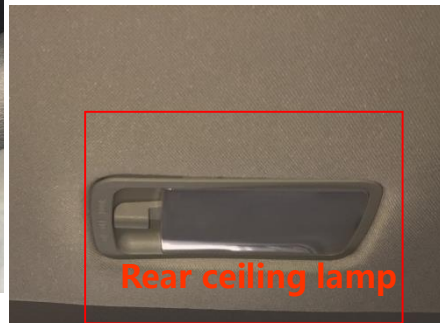
后雾灯（单侧）

# I. Overview of E70 lighting system



1. **Functions:** (1) the interior and exterior lighting (2) to provide light signals to surrounding vehicles and pedestrians
2. **Including** front and rear position lamps, high beam, low beam, daytime running lamps, front and rear turn signal lamps, front fog lamps, rear fog lamps, brake lamps, reversing lamps, ceiling lamps, trunk lamps, and combination switches.

Headlamp assembly (including position lamp, low beam, daytime running lamp, turn signal lamp)



Front fog lamp



High-mounted brake lamp

Tail lamp assembly (including position lamps, turn signal lamps, reversing lamps, brake lamps)

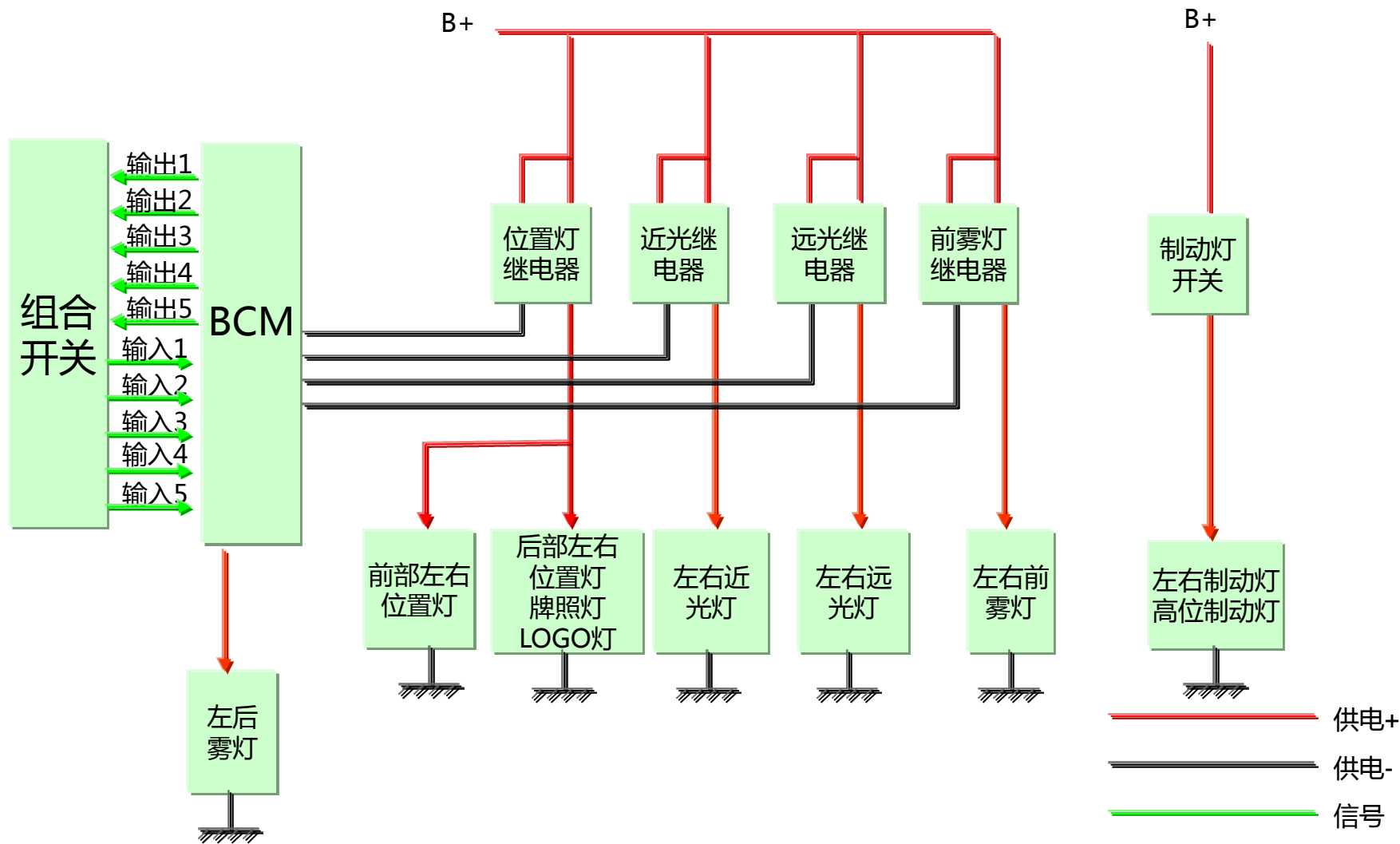
Rear fog lamp (on one side)

## 二、E70照明系统工作原理及电路图



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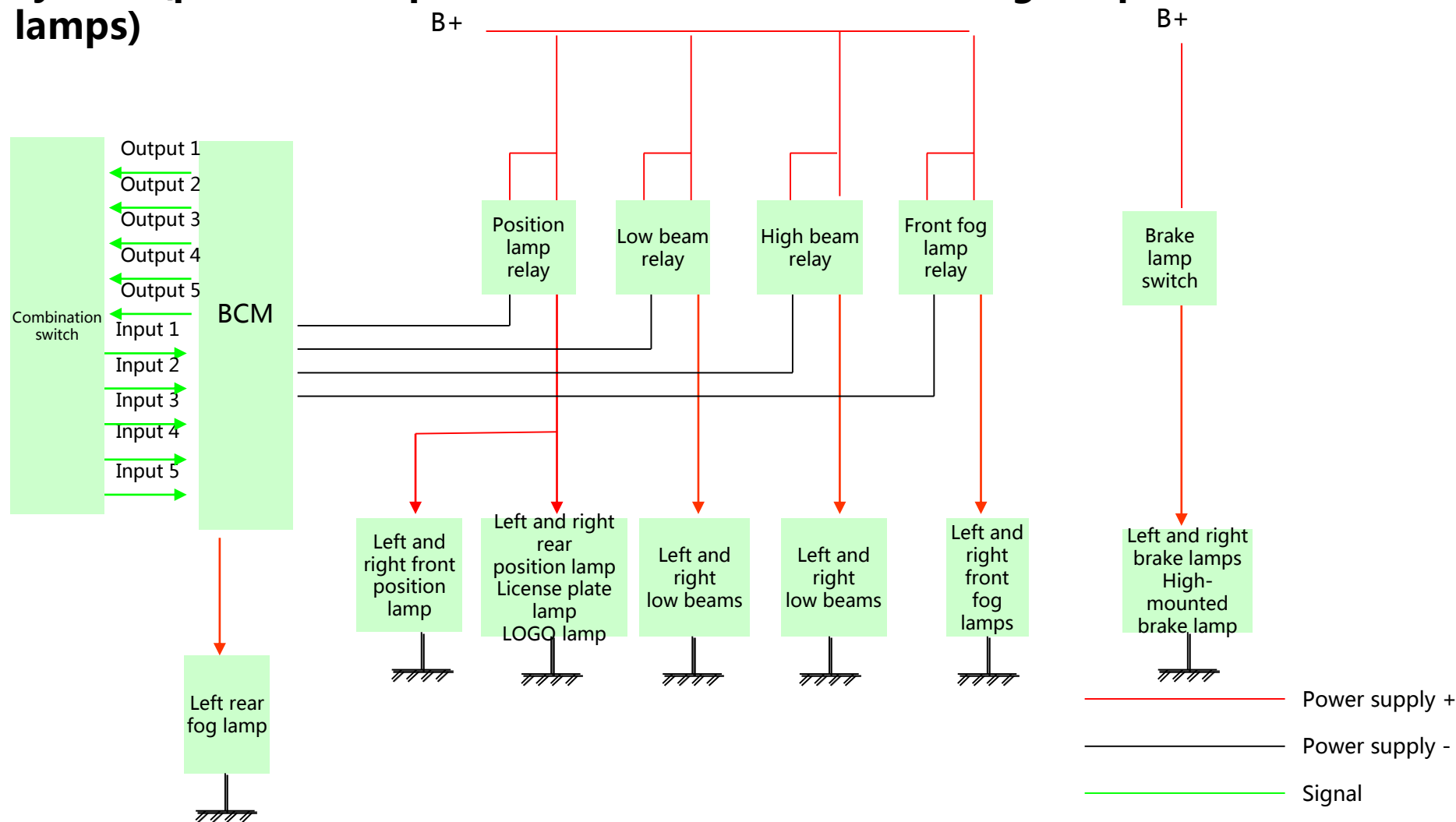
### 外部照明基本原理及电路图分析（位置灯，近远光，前后雾灯，制动灯）





## II. Working principle and circuit diagram of E70 lighting system

Analysis of basic principle and circuit diagram of external lighting system (position lamps, low beams, front and rear fog lamps, brake lamps)



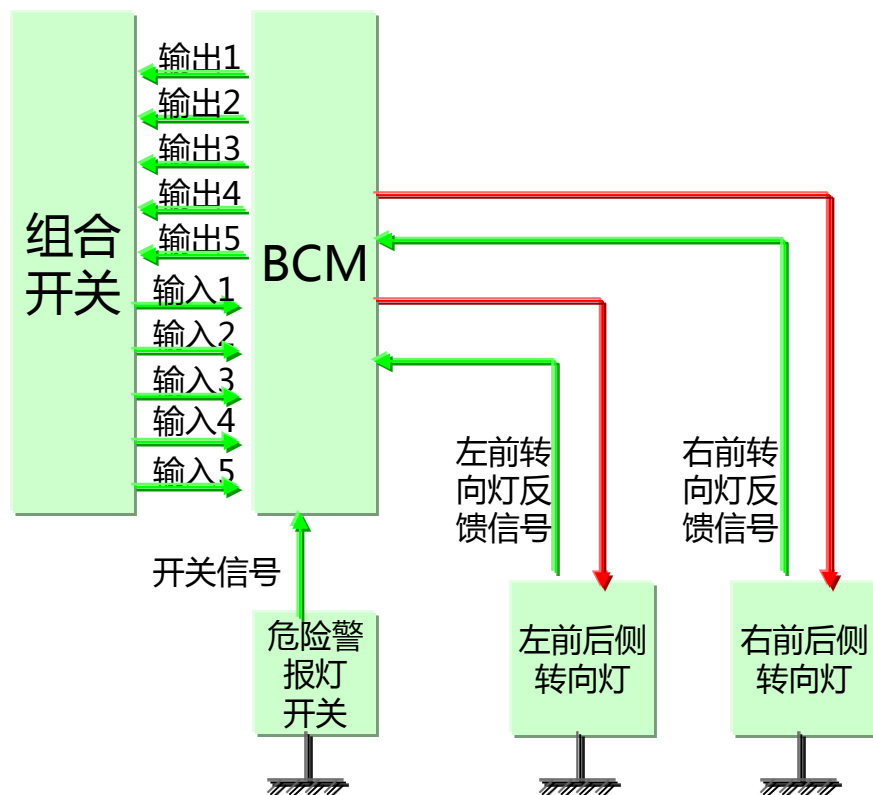


## 二、E70照明系统工作原理及电路图



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### 外部照明基本原理及电路图分析（转向、危险警报灯）

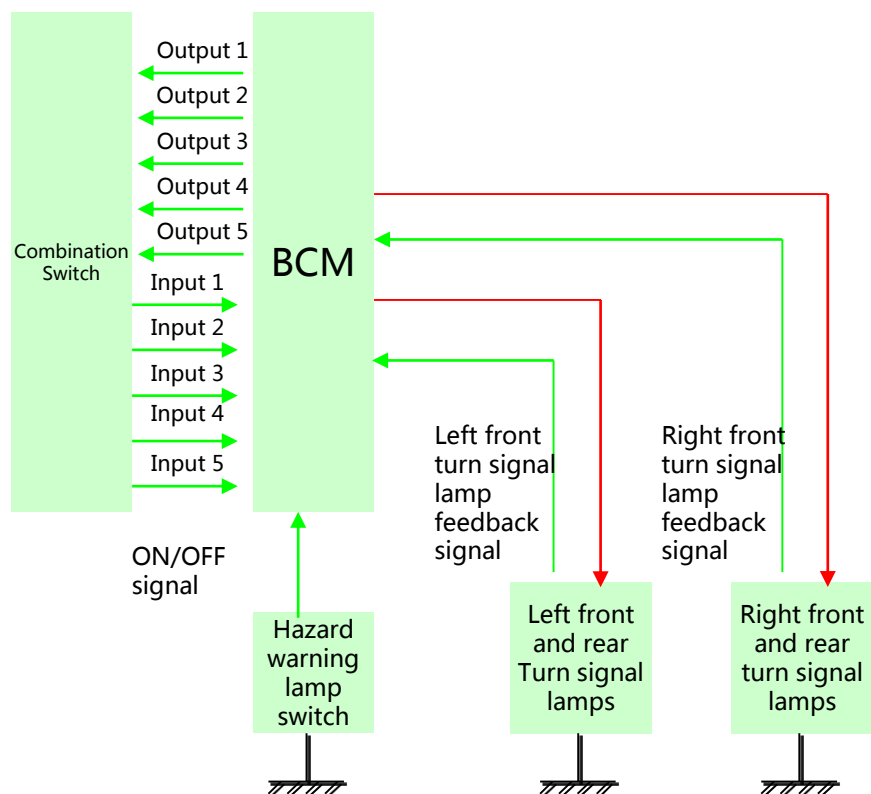


## II. Working principle and circuit diagram of E70 lighting system



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### Analysis of basic principle and circuit diagram of external lighting system (turn signal lamps, hazard warning lamp)



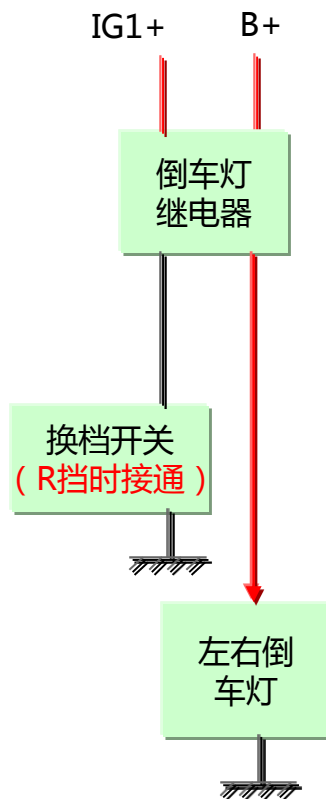
- Power supply +
- Power supply -
- Signal

## 二、E70照明系统工作原理及电路图



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### 外部照明基本原理及电路图分析（倒车灯）

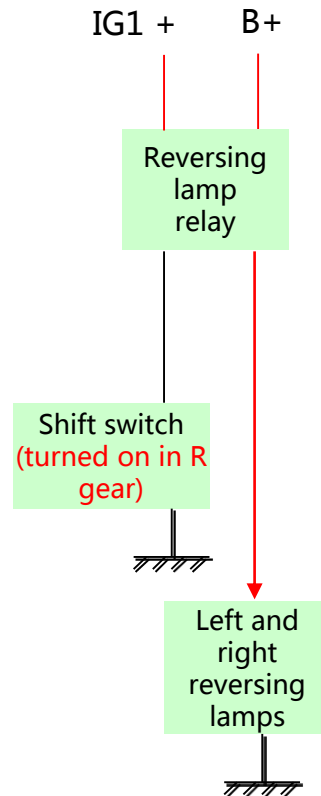


## II. Working principle and circuit diagram of E70 lighting system



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### Analysis of basic principle and circuit diagram of external lighting system (reversing lamps)



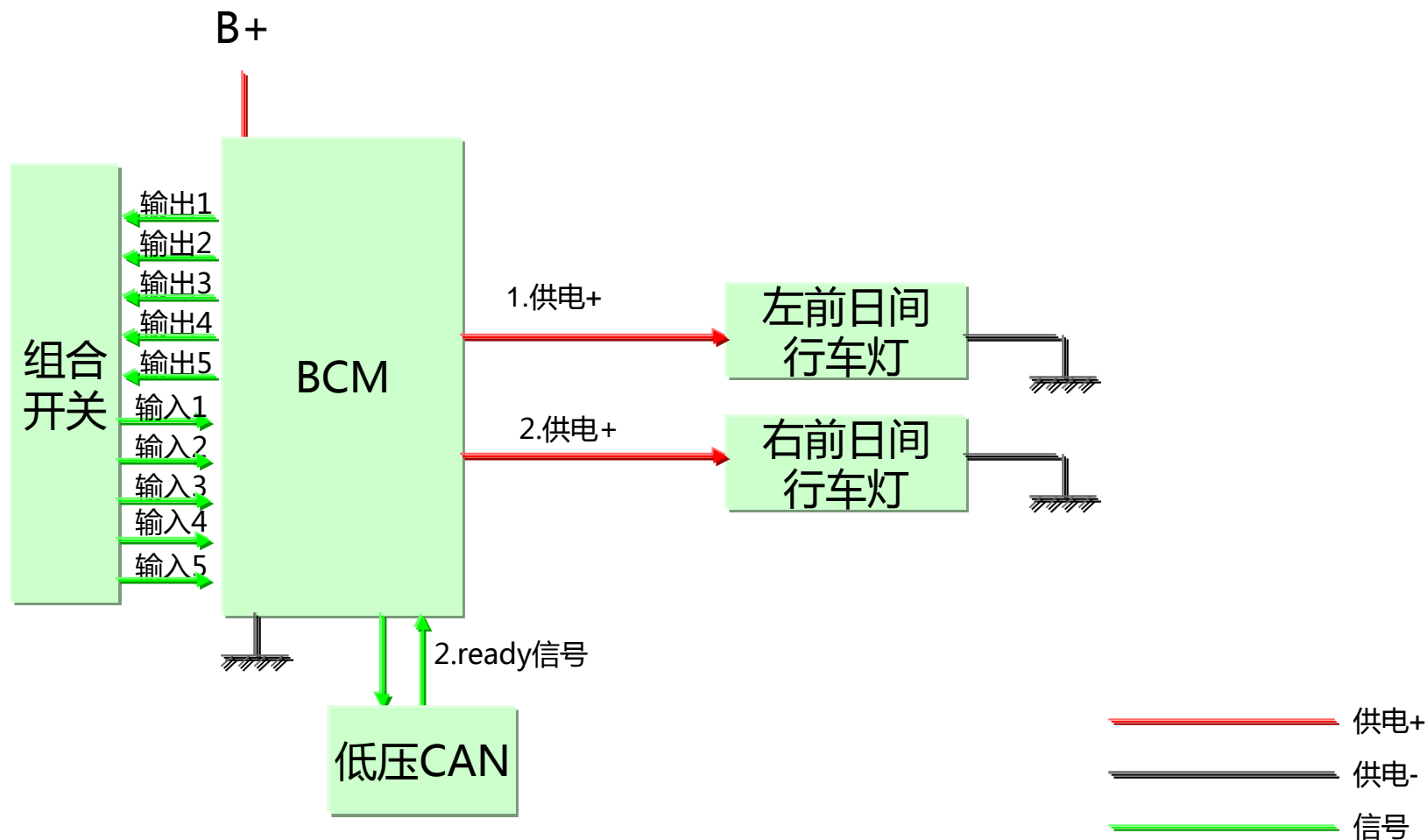
- Power supply +
- Power supply -
- Signal

## 二、E70照明系统工作原理及电路图



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### 外部照明基本原理及电路图分析（日间行车灯，E1级车型）

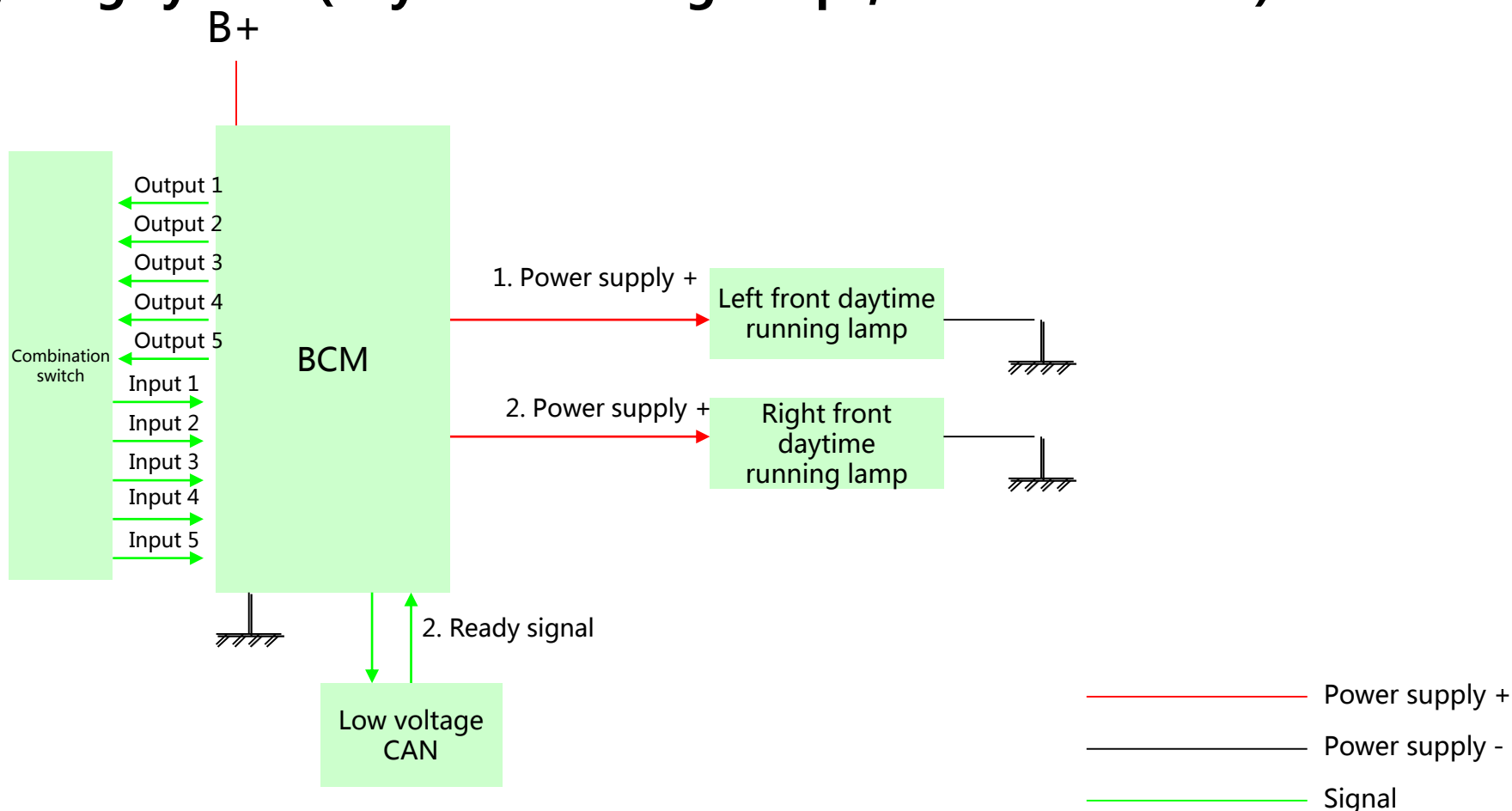


## II. Working principle and circuit diagram of E70 lighting system



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### Analysis of basic principle and circuit diagram of external lighting system (daytime running lamps, E1 class models)

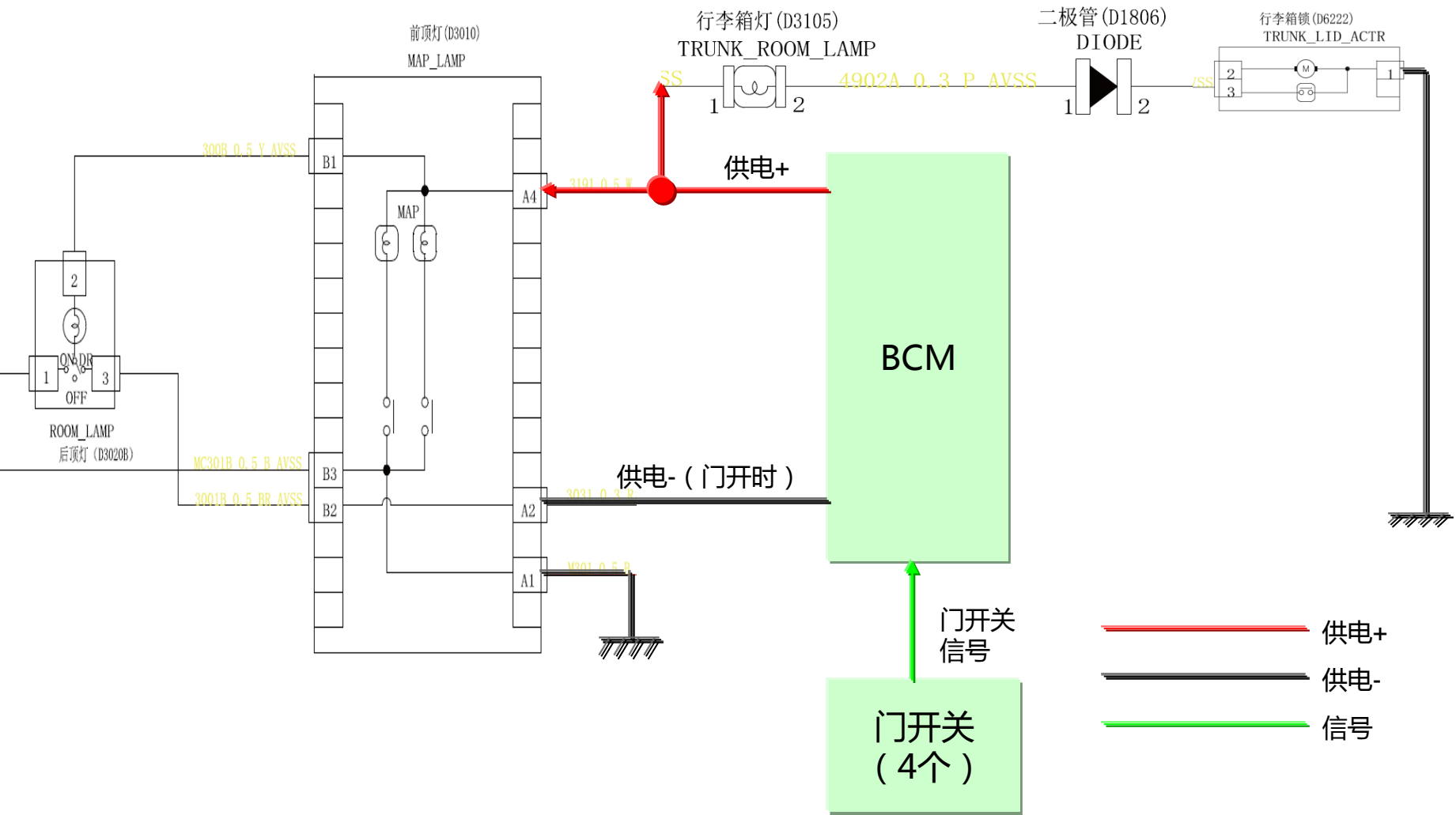


# 二、E70照明系统工作原理及电路图



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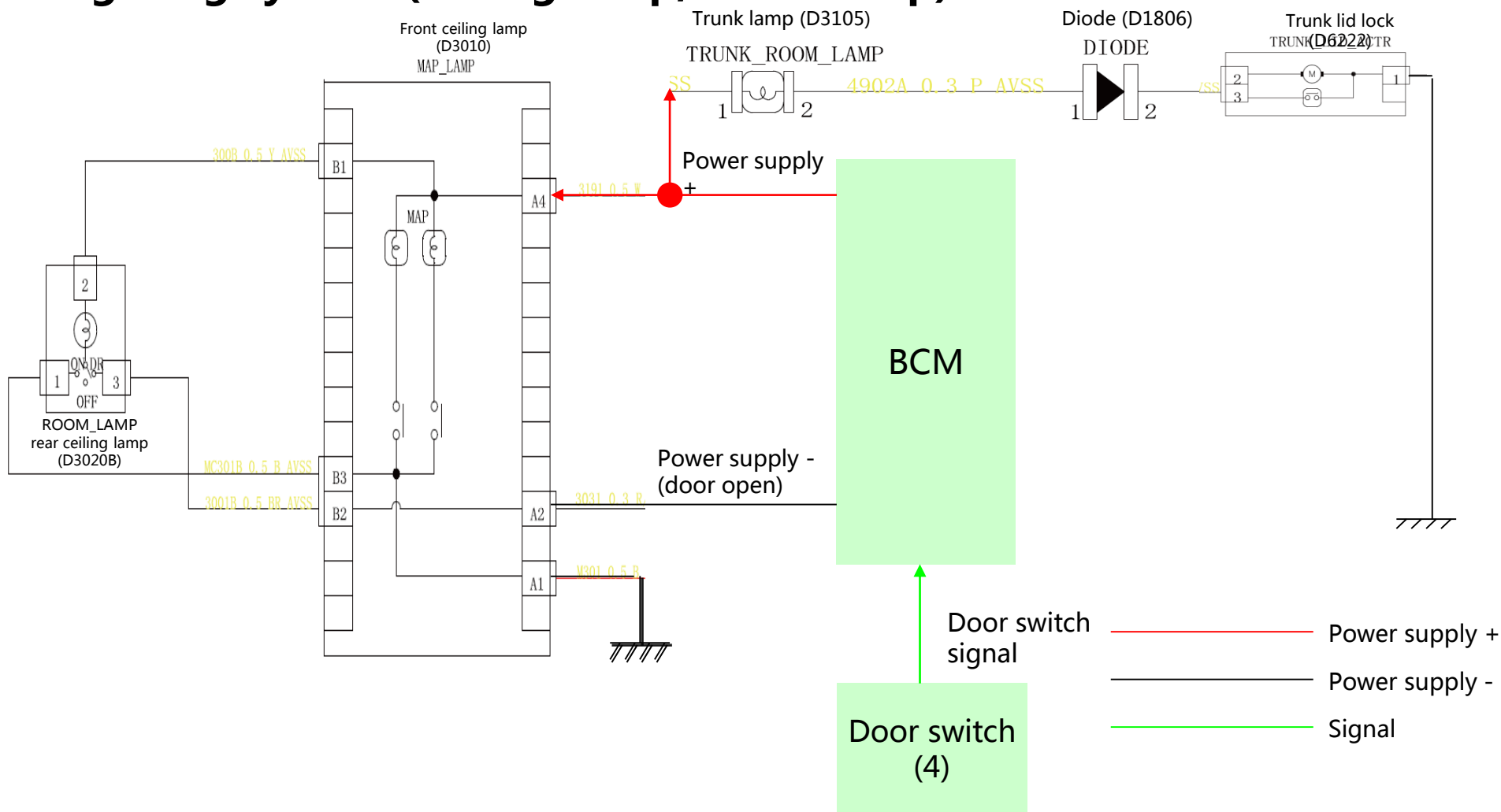
## 内部照明基本原理及电路图分析（顶灯，尾箱灯）





## II. Working principle and circuit diagram of E70 lighting system

### Analysis of basic principle and circuit diagram of internal lighting system (ceiling lamp, trunk lamp)



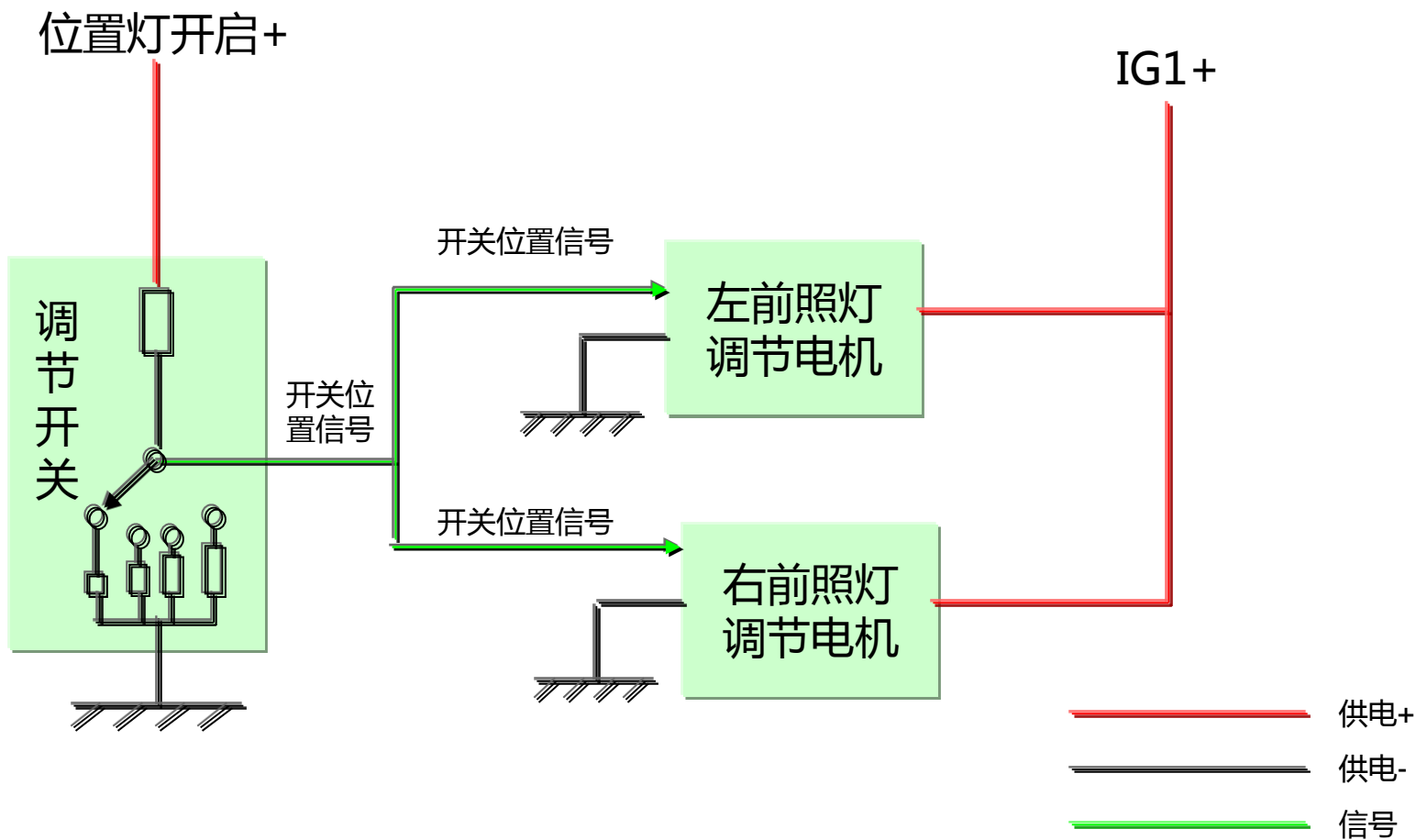


## 二、E70照明系统工作原理及电路图



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### 前照灯调节基本原理及电路图分析

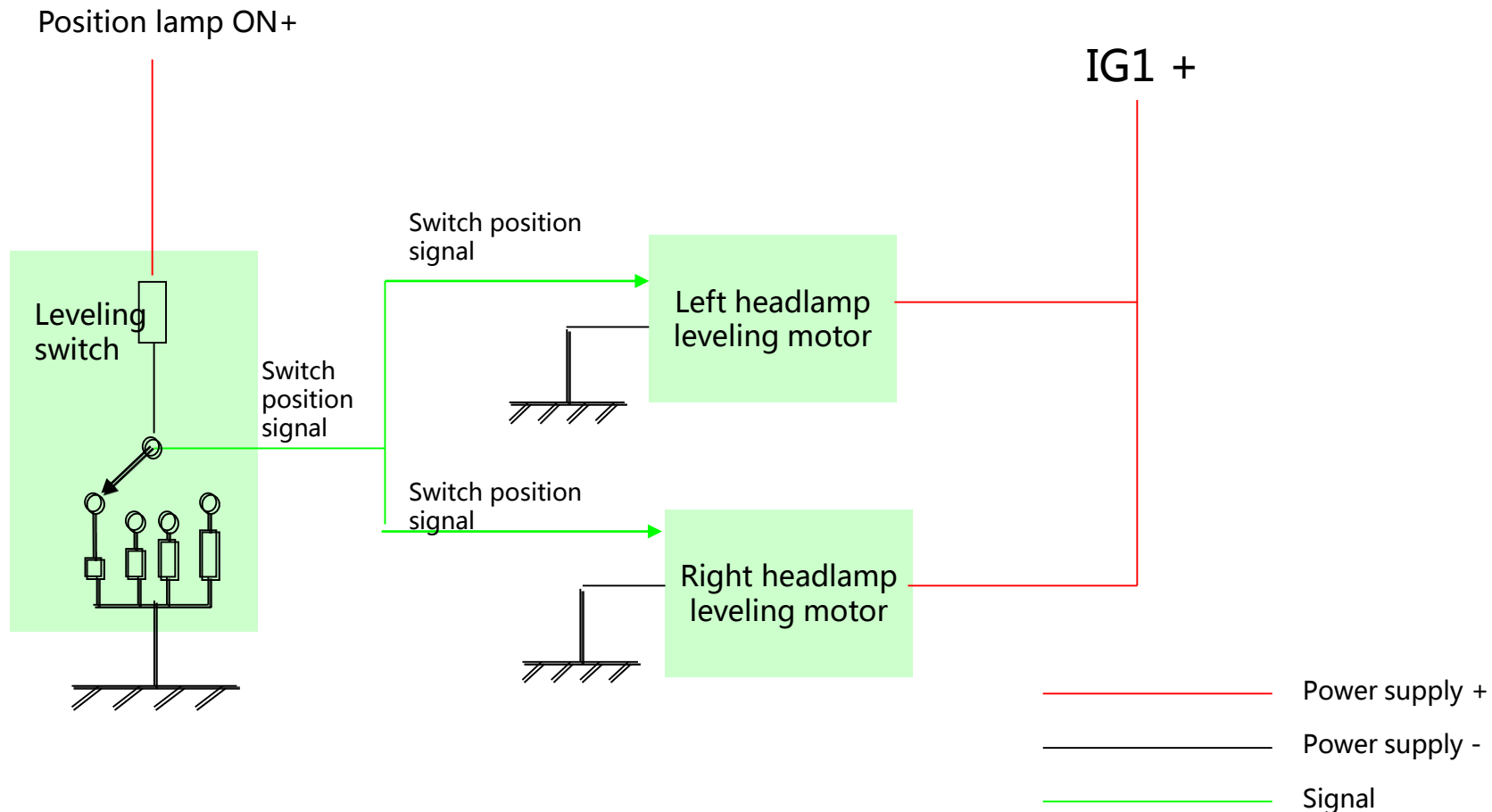


## II. Working principle and circuit diagram of E70 lighting system



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### Analysis of basic principle and circuit diagram of headlamp leveling



### 三、E70照明系统维修注意事项



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- 在对电器元件进行维修时，**应先关闭点火开关，拔出钥匙，并脱开蓄电池负极电缆。**
- 拆卸灯泡前，应先等待灯泡冷却后再进行操作。
- 拆卸和安装灯泡时，要保持灯泡干净，切勿用手直接接触灯泡玻璃，以免影响其照明效果和使用寿命。
- 废旧灯泡应按规定回收处理。
- **不要用有机溶剂清洗大灯表面**，以免损伤大灯。

### III. Precautions for service of E70 lighting system



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- Before servicing the electrical components, **turn off the ignition switch, and then remove the key, and disconnect the battery negative cable.**
- Before removing the bulb, wait until the bulb is cooled down prior to further operation.
- When removing or refitting the bulb, keep the bulb clean, never touch the glass of bulb by hands directly, avoiding affecting the lighting effects and the service life of the bulb.
- Used bulbs should be recycled in accordance with the regulations.
- **Do not clean headlamp surface using organic solvents,** to avoid it being damaged.