



SNS COLLEGE OF TECHNOLOGY

Coimbatore-35
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DEPARTMENT OF AUTOMOBILE ENGINEERING

**COURSE NAME : 19AUB204 Automobile Electricals &
Electronics Engineering**

II YEAR / IV SEMESTER

Unit 1 – Electrical Systems

**Topic 4 : Lighting System /Photometry insulated and
Earth Return System**

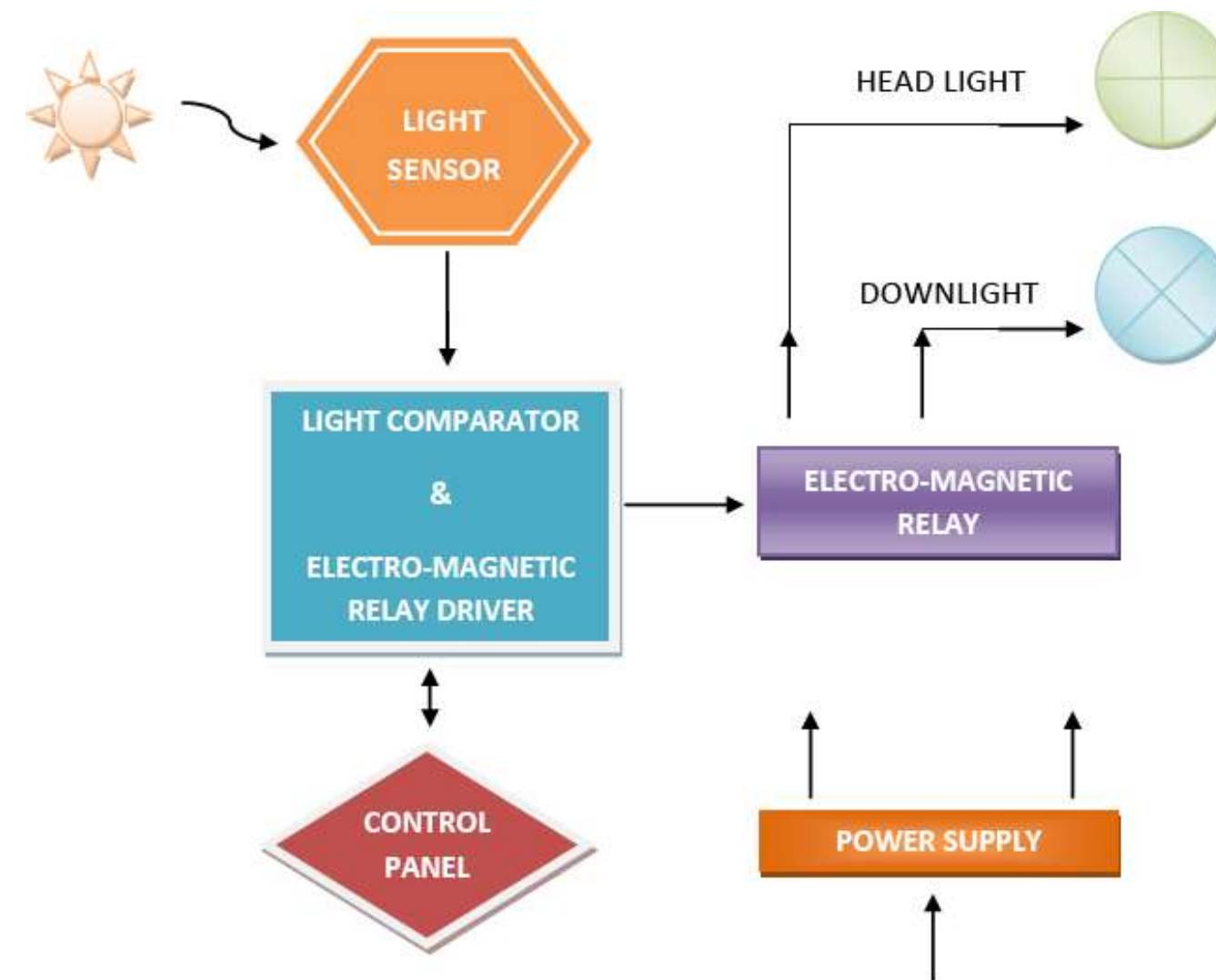


Lighting System



The lighting system of a motor vehicle consists of lighting and signaling devices mounted on the front, rear, sides, and in some cases on the top of a motor vehicle, and lights the roadway for the driver

- **Lamps, Light fixtures, Fixture distribution, Sensors and control technologies, Interior design elements, and Daylighting sources**



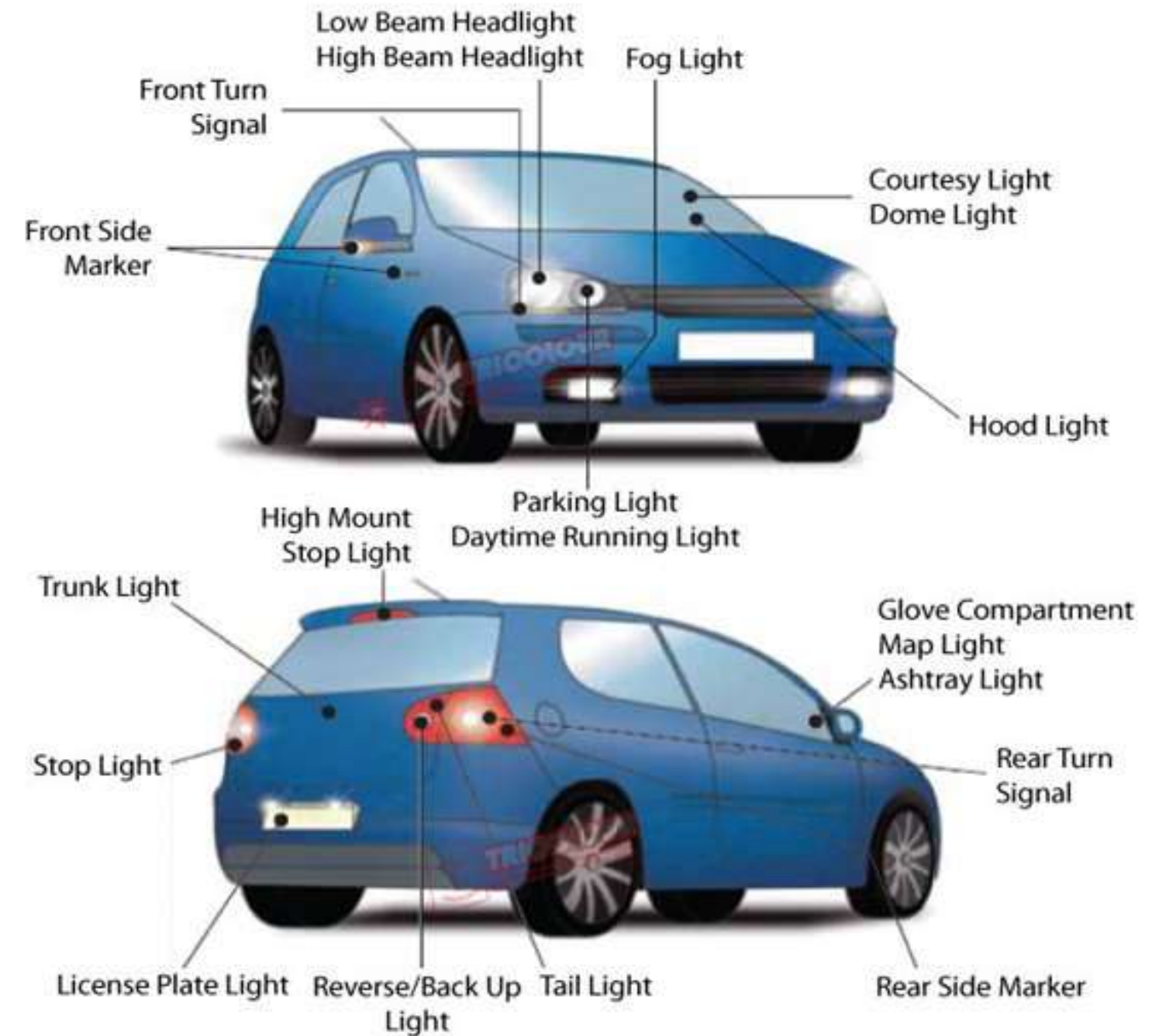


Types of Lighting System



The three types of lighting has a particular function to fulfill specific needs, which are:

- Ambient lighting.
- Task lighting.
- Accent lighting.





Ambient lighting



Ambient lighting is the soft illumination around the car's center console, door handles and pulls, cupholders and sometimes completely across the dash and in the vehicle's footwalls.





Task lighting



- Automotive task lights are designed to brighten dim place lights in your car. Halogen Automotive Task Lights.
 - Automotive lamps from various brands for giving more light and safety on the road.
- The halogen solutions are the best-selling classics among headlight lamps.





Accent lighting



- Intended to highlight a specific object or area, accent lights are typically three times as bright as ambient lights.
- Accent lighting draws attention to a feature, such as artwork, furnishings or architectural details, converting them into focal points.



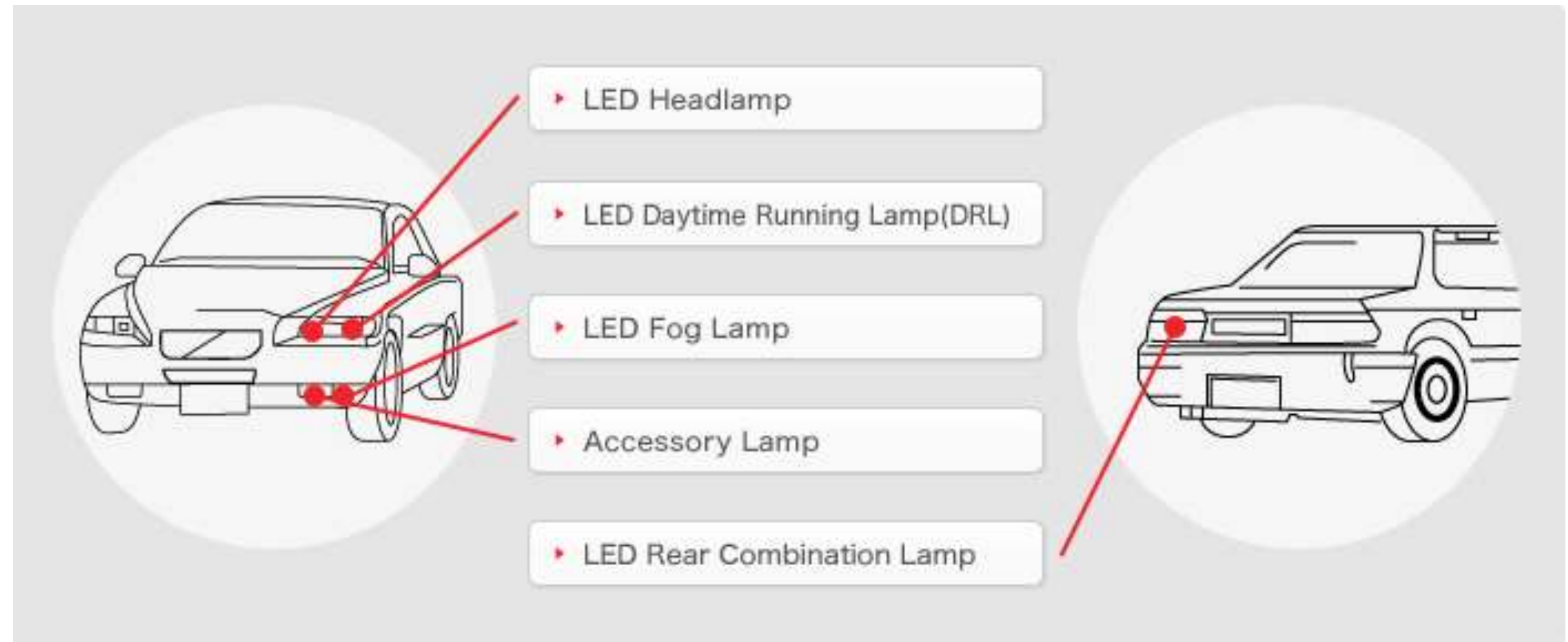


Components of Lighting System



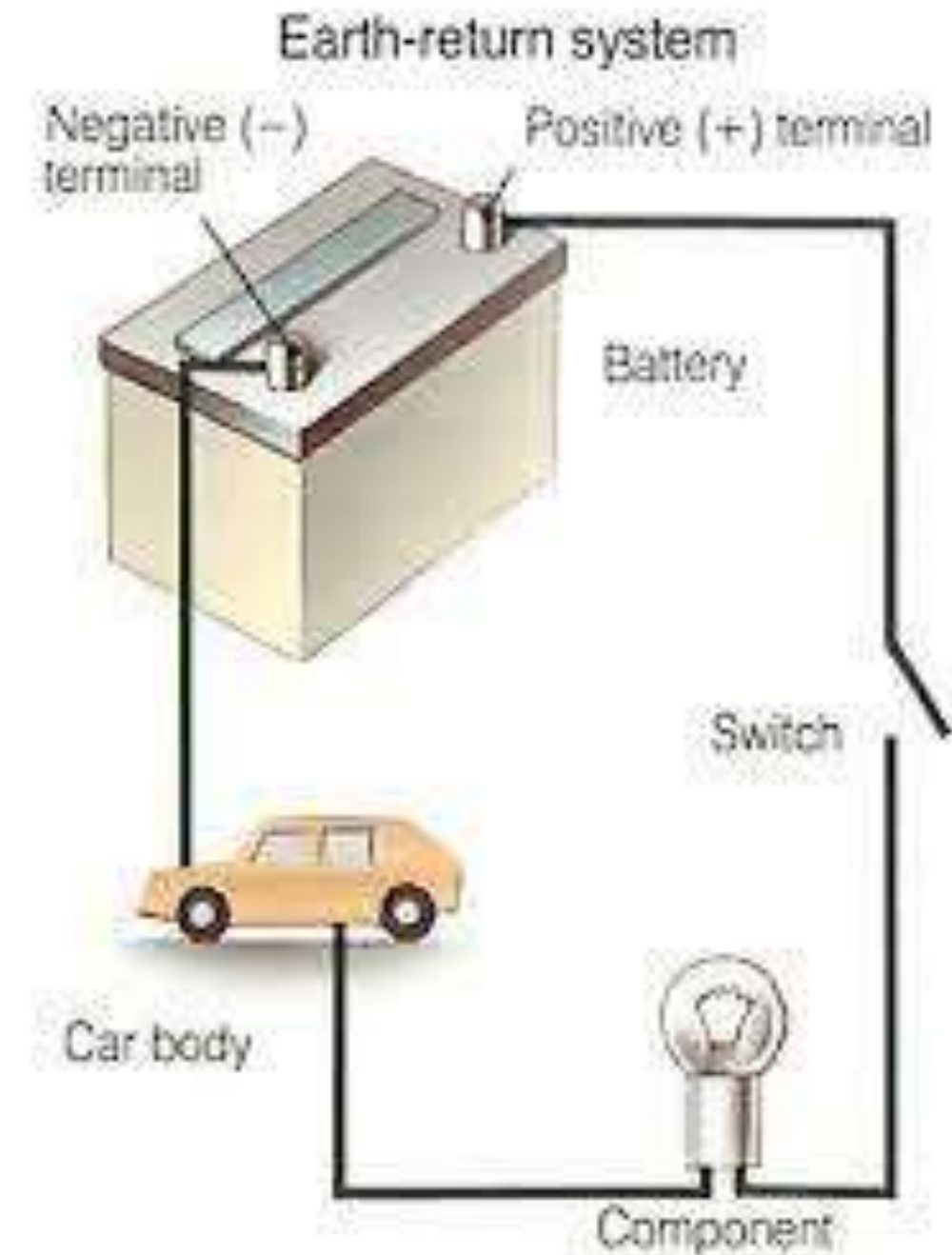
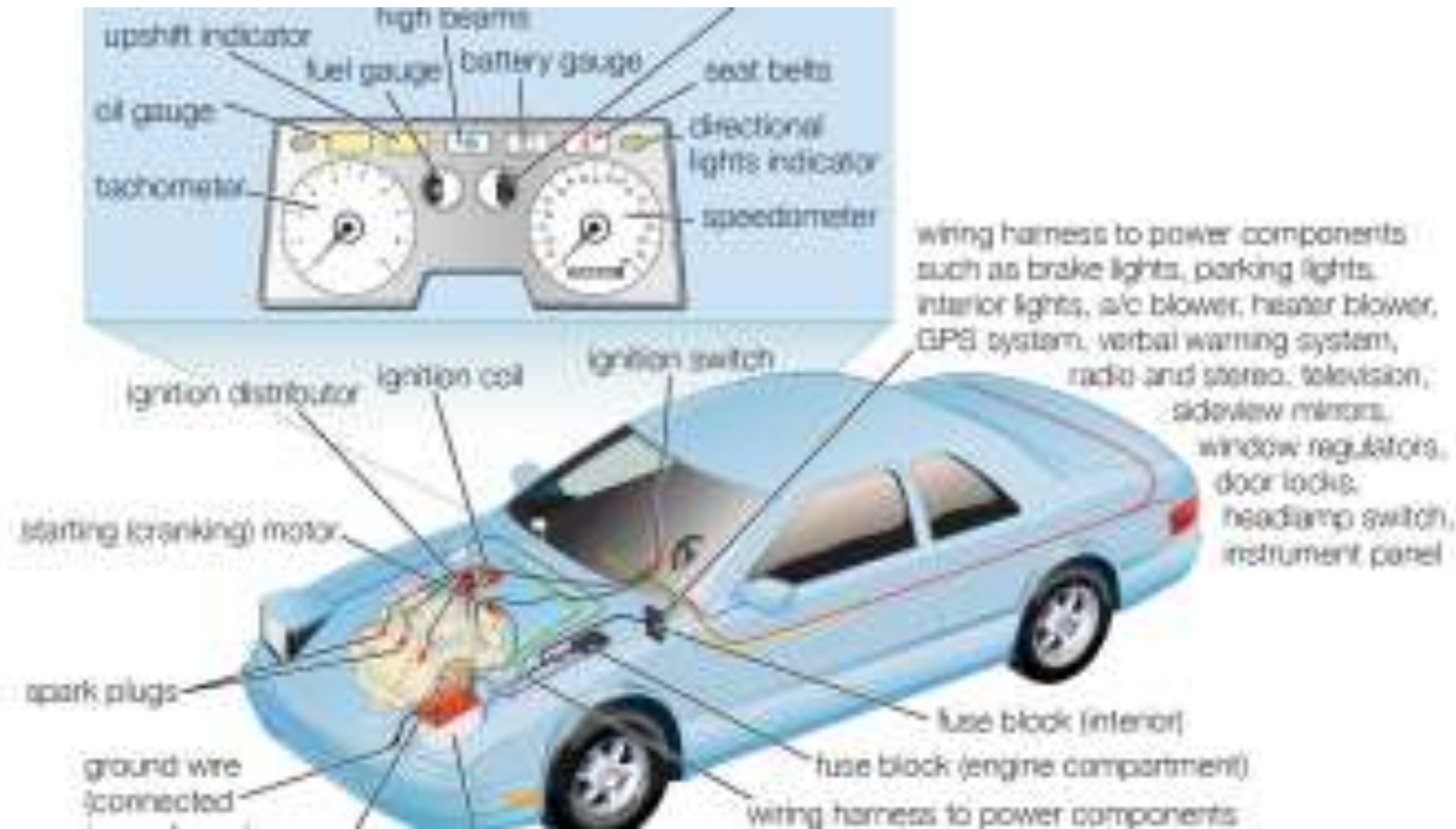
The four basic elements of lighting systems are:

- **Direction,**
- **Quality,**
- **Lighting ratio, and**
- **Control**





Insulated & Earth Return System





References



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Thankyou