

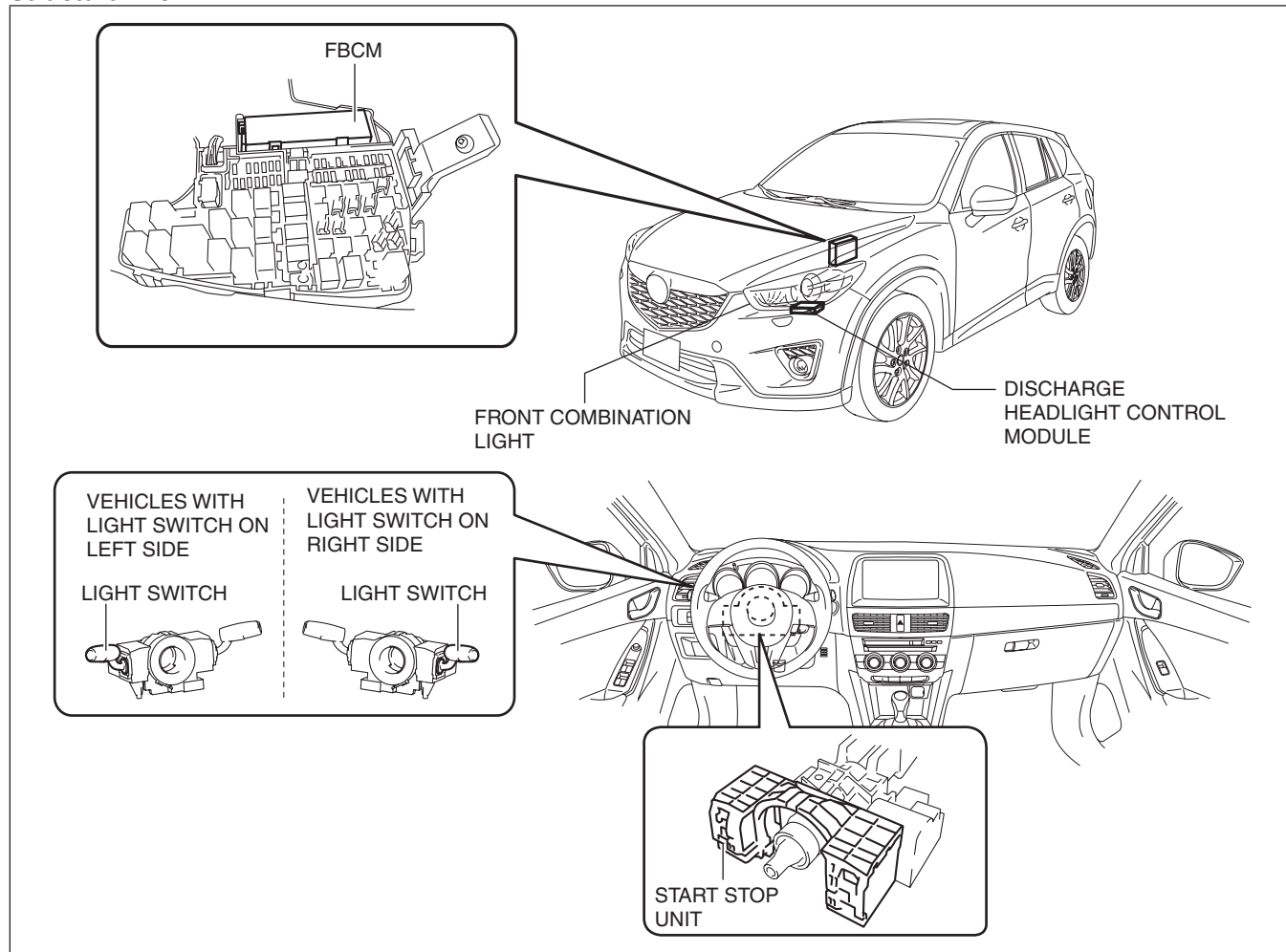
DISCHARGE HEADLIGHT SYSTEM

id091800010300

Outline

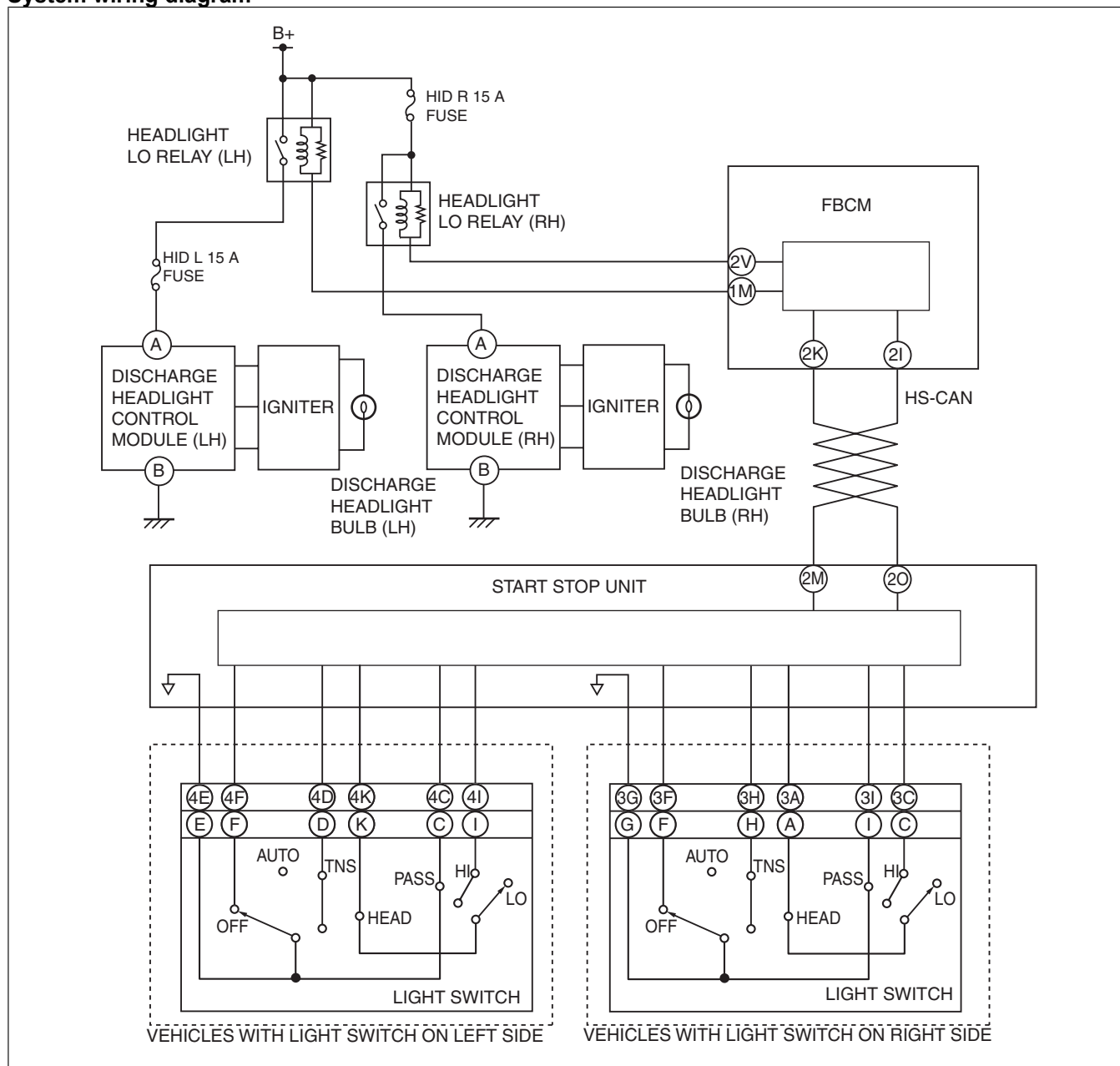
- The discharge headlight system utilizes a gas discharge type light to emit a white light resembling sunlight over a wide area. Also, use of the gas discharge type light realizes high efficiency, low power consumption lighting.

Structural view



ac5wzn00001342

System wiring diagram



ac5wzn00001343

Operation

1. When the light switch is operated to the HEAD position, a light switch LO signal is input to the start stop unit.
2. The start stop unit sends the light switch LO signal to the front body control module (FBCM) as a CAN signal.
3. When the front body control module (FBCM) receives the light switch LO signal, it turns the headlight LO relay on.
4. When the headlight LO relay turns on, the igniter raises the DC voltage from the battery to approx. 25,000 V and outputs it to the discharge headlight bulb so that the xenon gas emits light.
5. When the discharge headlight bulb (xenon gas) emits light, the discharge headlight control module converts the DC voltage from the battery to AC voltage (approx. 42 V) and outputs it to the discharge headlight bulb to illuminate the bulb.

