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## CIRCUIT OPERATION

Accommodation within the system has been made for the addition of a trailer lighting system to consist of 2 side lamps, 2 fog lamps, 2 reverse lamps, 2 brake lamps, 1 LH indicator and 1 RH indicator.

In addition to these loads, there is also a provision for a 10 amp battery feed to the trailer.

### Bulb Failure Diagnosis With Trailer

The diagnosis of external bulb failures will be modified by the presence of a trailer as follows:

#### Brake lamps

- Diagnosis of the RH vehicle and trailer lamps will only detect a failure of all the filaments.
- Diagnosis of the LH vehicle brake light is unaffected.

#### Rear side lamps

- Diagnosis of the LH rear side lamps will only detect the failure of both the vehicle filament and the trailer filament.
- Diagnosis of the RH rear side lamps will only detect the failure of both the vehicle filament and the trailer filament.

#### Reverse lamps

- Diagnosis of the RH vehicle reverse light and the LH and RH trailer reverse lamps will only detect failure of all of the filaments.
- Diagnosis of the LH vehicle reverse light is unaffected.

#### Fog lamps

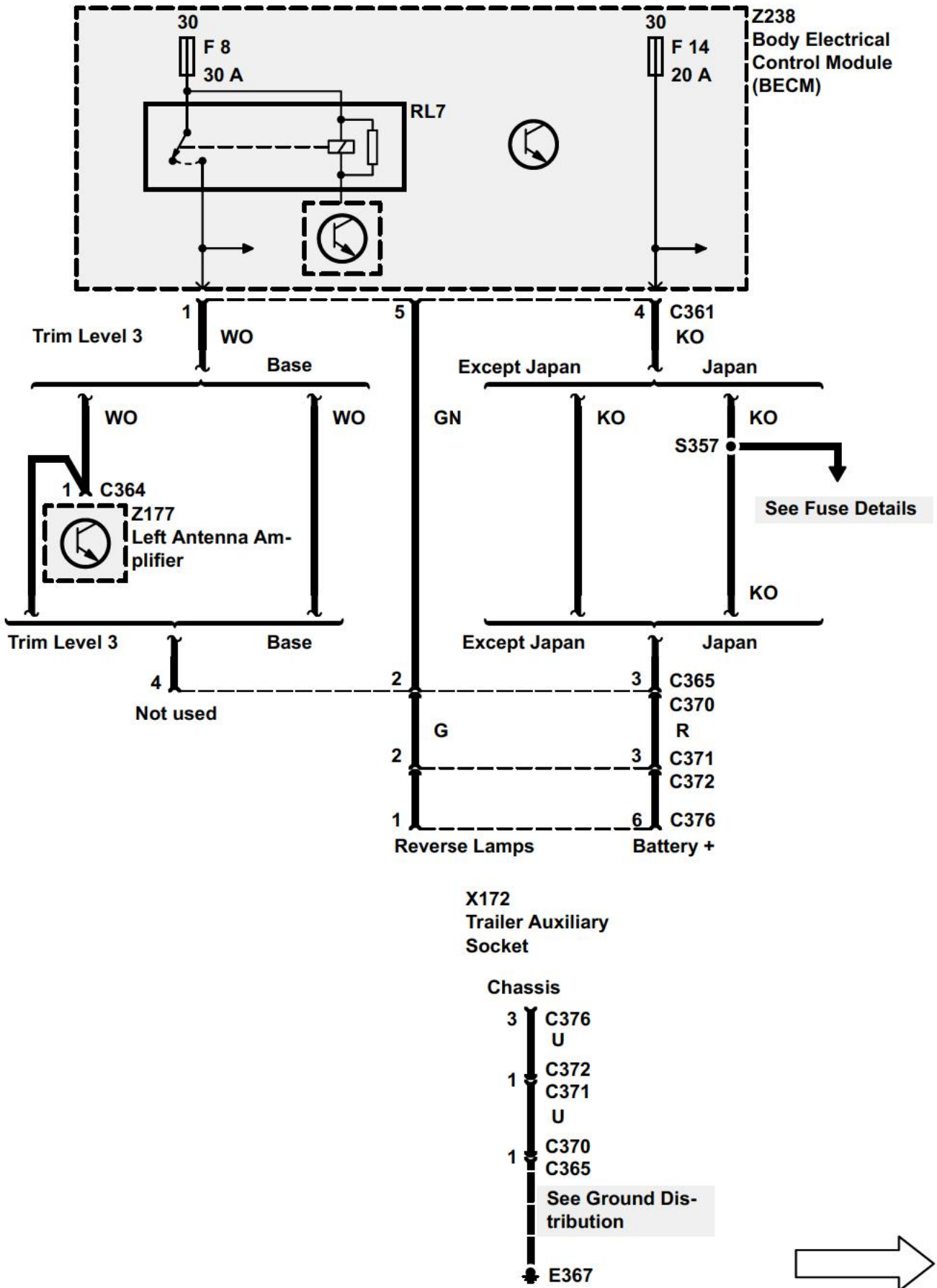
- Diagnosis of the RH vehicle rear fog light and the LH and RH trailer fog lamps will only detect failure of all of the filaments.
- Diagnosis of the LH vehicle rear fog light is unaffected.

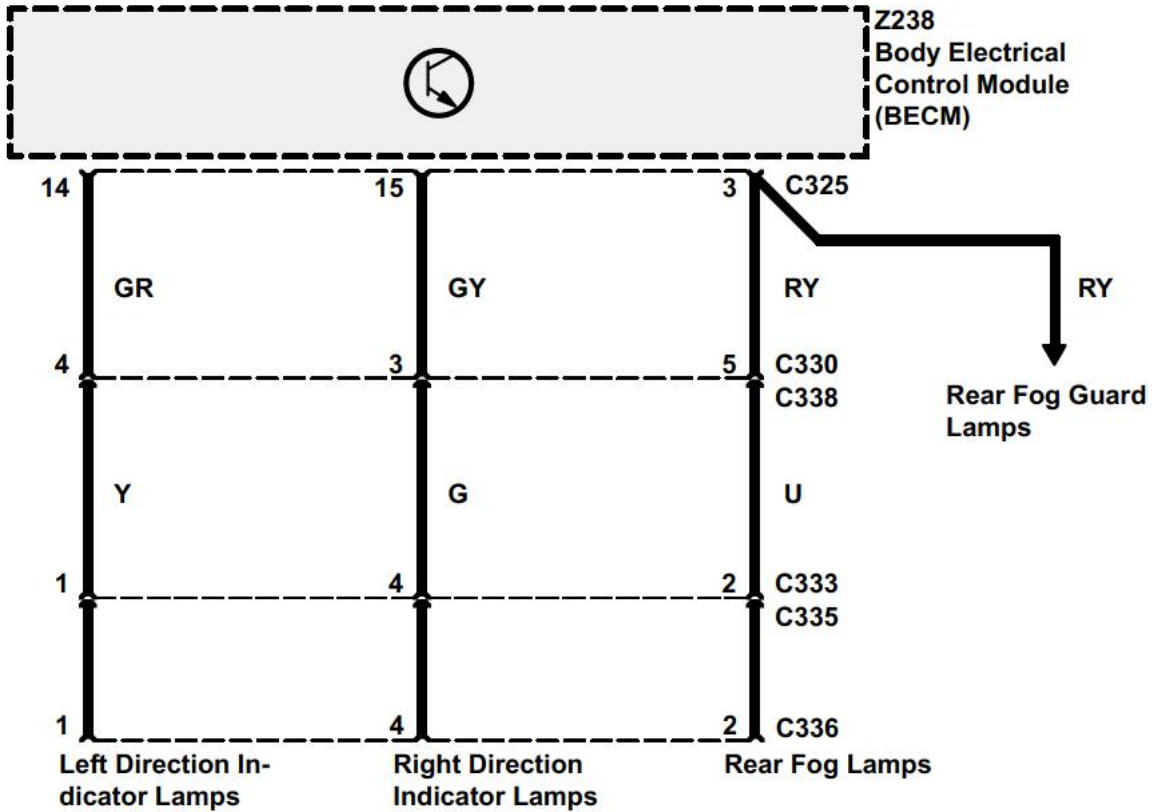
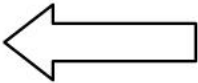
**Direction indicators**

The indicator warning lamp and trailer warning lamp will diagnose the status of the vehicle's rear filaments, and trailer direction indicator filaments according to the following table:

Indicator w/l	Trailer w/l	Vehicle filament	Trailer filament
Flash	Flash	Good	Good
Flash	Extinguished	Good	Fail/not fitted
Flash	Flash	Fail	Good
Flash w/ double rate	Extinguished	Fail	Fail/not fitted

In the case of hazard light operation with trailer lamps fitted, the failure of a trailer direction indicator light will cause the trailer warning light to flash at double rate, while the direction indicator light will flash at the "standard" rate.





X286 Trailer Main Socket

