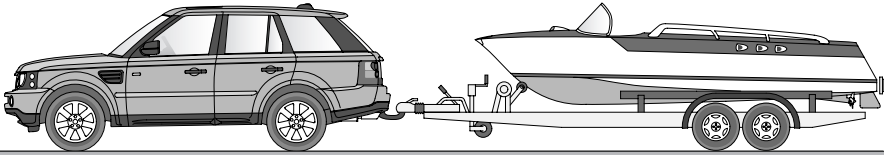



# Towing


## TOWING A TRAILER





E90953


### WARNINGS

 Never exceed the maximum weights for either the vehicle or trailer, doing so will adversely affect vehicle stability and may result in serious injury or death.


 To preserve vehicle handling and stability, only fit towing accessories that have been designed and approved by Land Rover.


 Do not use lashing points or vehicle recovery towing points to tow a trailer. Use of the towing eyes for purposes other than their designed intention could result in damage or injury.

 When towing, do not exceed 100 km/h (60 mph), or 80 km/h (50 mph) if the temporary spare wheel is in use.

 The nose weight, plus the combined weight of the vehicle's load carrying area and rear seat passengers, must never exceed the specified maximum rear axle load.

### CAUTIONS

 An equalising or other form of weight distributing hitch should not be used with your vehicle.

 When preparing your vehicle for towing, pay attention to any instructions provided by the trailer manufacturer.



The trailer warning indicator lamp illuminates as a bulb check when the starter switch is turned to position II and extinguishes when the engine is started.

If the lamp does not flash with the direction indicators, the trailer bulb may be faulty.

### Points to remember

- When calculating the laden weight of the trailer, remember to include the weight of the trailer.
- To make sure the towing hitch is at the correct height, ensure that:
  - All doors are closed.
  - The engine is running.
  - On-road ride height is selected.
- If the load can be divided between trailer and vehicle, loading more weight into the vehicle will generally improve stability.
- Towing regulations vary from country to country. Always ensure you observe national regulations.

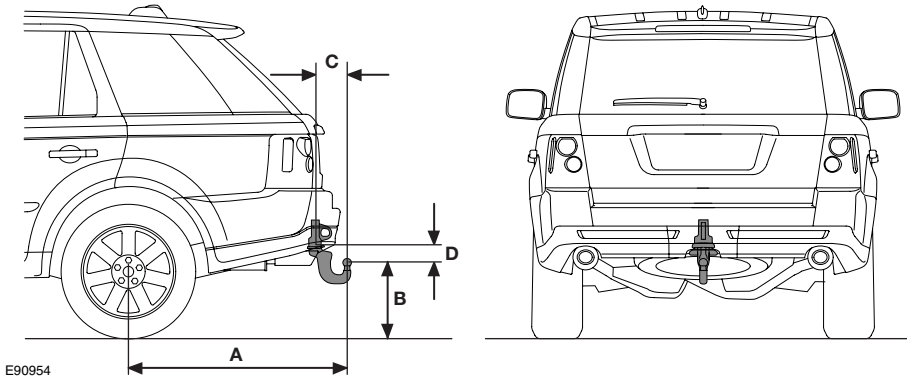
### Trailer socket

The vehicle's electrical system is configured to support all towing requirements and the electrical socket fitted will comply with legal requirements for the specific territory.

All towing circuits are independently fused in the tow hitch fusebox. See **FUSE BOX LOCATIONS** (page 229).

# Towing

## Fixed - tow ball



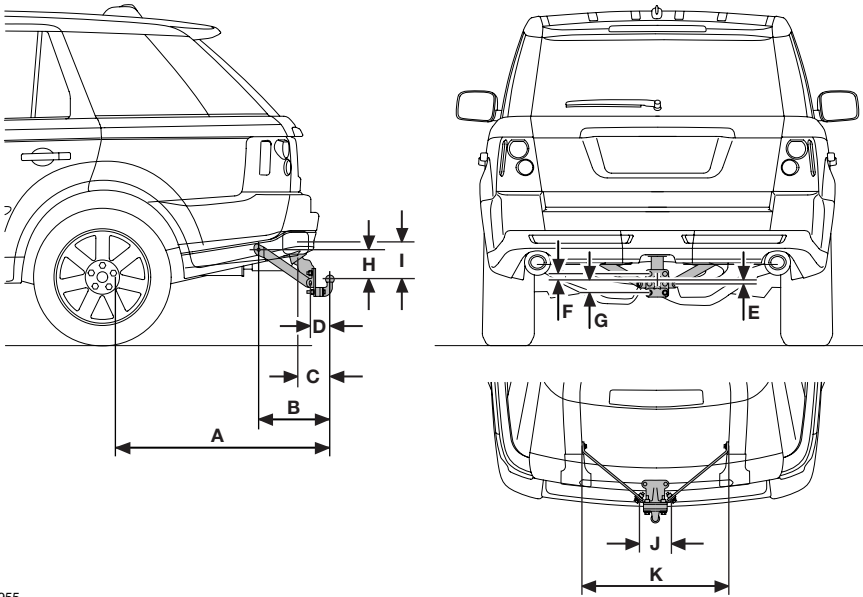
## Tow ball dimensions

| Ref. | Dimension                                | Metric   | Imperial  |
|------|--|----------|-----------|
| A    | Wheel centre to centre of tow ball       | 1,190 mm | 46.9 in.  |
| B    | Ground to centre of tow ball             | 395 mm   | 15.55 in. |
| C    | Centre of tow ball to tow bar attachment | 170 mm   | 6.7 in.   |
| D    | Centre of tow ball to tow bar attachment | 124 mm   | 4.9 in.   |

**Note:** Dimensions refer to towing equipment officially released by Land Rover.

# Towing

## Multi-height drop plate - tow bar



E90955

## Tow ball dimensions

| Ref. | Dimension   | Metric   | Imperial  |
|------|---|----------|-----------|
| A    | Wheel centre to centre of tow ball (horizontal)                                   | 1,210 mm | 47.64 in. |
| B    | Centre of outer attachment points to centre of tow ball (horizontal)              | 403.6 mm | 15.89 in. |
| C    | Centre line of housing bayonet slot tip radius to centre of tow ball (horizontal) | 192.4 mm | 7.57 in.  |
| D    | Centre of inner attachment points to centre of tow ball (horizontal)              | 108 mm   | 4.25 in.  |
| E    | Centre of inner attachment points to centre of tow ball (vertical)                | 20 mm    | 0.79 in.  |
| F    | Centre of upper tow ball plate bolt to centre of tow ball (vertical)              | 36 mm    | 1.42 in.  |
| G    | Centre of lower tow ball plate bolt to centre of tow ball (vertical)              | 70 mm    | 2.76 in.  |

# Towing

| Ref. | Dimension   | Metric   | Imperial  |
|------|---|----------|-----------|
| H    | Centre of outer attachment points to centre of tow ball (horizontal)            | 167.3 mm | 6.59 in.  |
| I    | Centre line of housing bayonet slot tip radius to centre of tow ball (vertical) | 174.3 mm | 6.86 in.  |
| J    | Distance between inner attachment point centres                                 | 180.5 mm | 7.10 in.  |
| K    | Distance between outer attachment point centres                                 | 822.5 mm | 32.38 in. |

## GEAR CHANGING

To avoid overheating the gearbox, and the clutch in manual gearbox vehicles, it is not advisable to tow heavy trailer loads at speeds of less than 32 km/h (21 mph) using the main gearbox in high range. Select low range instead.

## LEVELLING

To optimise stability, make sure the trailer is level with the ground, and with the towing hitch and trailer drawbar set at the same height. See **TOWING A TRAILER** (page 174). This is particularly important when towing twin axle trailers. Set the height of the drawbar hitch point so that the trailer is level when connected to the loaded vehicle.

# Towing

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## ESSENTIAL TOWING CHECKS

### All markets except Australia

|                                       |  |
|---------------------------------------|--|
| Tyre pressures                        | Increase rear tyre pressures of towing vehicle to those for Maximum Gross Vehicle Weight (GVW).  |
| Nose weight                           | If the vehicle is loaded to GVW, the nose weight is limited to 150 kg (330 lb). If a greater nose weight is necessary (up to 250 kg (550 lb) maximum), vehicle load should be reduced to ensure the GVW and rear axle weights are not exceeded.  |
| Breakaway cable or secondary coupling | A breakaway cable or secondary coupling must be attached. If the trailer/caravan is fitted with brakes, it is usual for an attached breakaway cable to operate the brakes in the event of uncoupling. If your trailer has no breakaway cable, a secondary coupling must be attached. Use a suitable point on the towing bracket to attach the coupling securely. |

### Australia only

|                |  |
|----------------|--|
| Tyre pressures | Increase rear pressures of towing vehicle to those for Maximum Gross Vehicle Weight conditions.          |
| Nose weight    | Must be a minimum of 7% of gross caravan/trailer weight, up to a maximum of 350 kg (722 lb).             |
| Hitch height   | Must be set with the engine running, so that the caravan/trailer is level when connected to the vehicle. |

# Towing

## RECOMMENDED TOWING WEIGHTS

### Towing weights

| Maximum permissible towed weights | On-road             | Off-road            |
|-----------------------------------|---------------------|---------------------|
| Unbraked trailers                 | 750 kg (1 654 lb)   | 750 kg (1 654 lb)   |
| Trailers with overrun brakes      | 3 500 kg (7 716 lb) | 1 000 kg (2 205 lb) |
| Nose weight                       | 250 kg (550 lb)     | 250 kg (550 lb)     |

### Maximum towing/load limits

| Gross Train Weight<br>(Weight of vehicle plus trailer with overrun brakes) |          |           |
|--|----------|-----------|
| Petrol engine vehicles (normally aspirated)                                | 6 570 kg | 14 484 lb |
| Petrol engine vehicles (supercharged)                                      | 6 625 kg | 14 605 lb |
| Diesel engine vehicles   | 6 570 kg | 14 484 lb |
| Roof load (including the weight of roof rack)                              | 75 kg    | 165 lb    |

**Note:** *The gross vehicle weight must not be exceeded.*

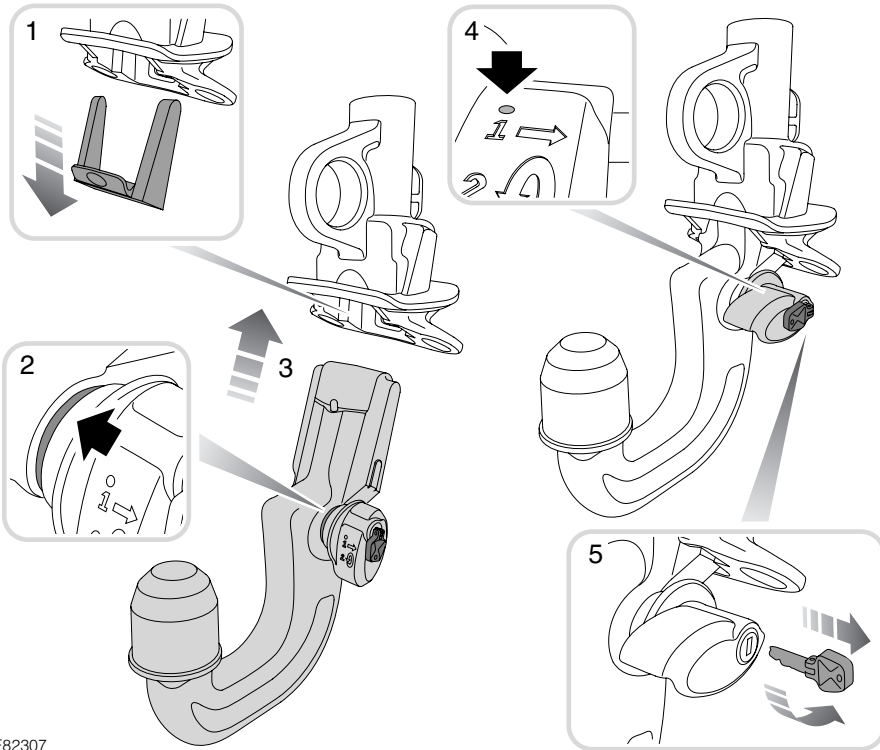
### Towing weights - Australia only

Australian regulations specify that the weight of a trailer must not exceed 1.5 times the towing vehicle's weight.

# Towing

## DETACHABLE TOW BALL

### Fitting the tow ball

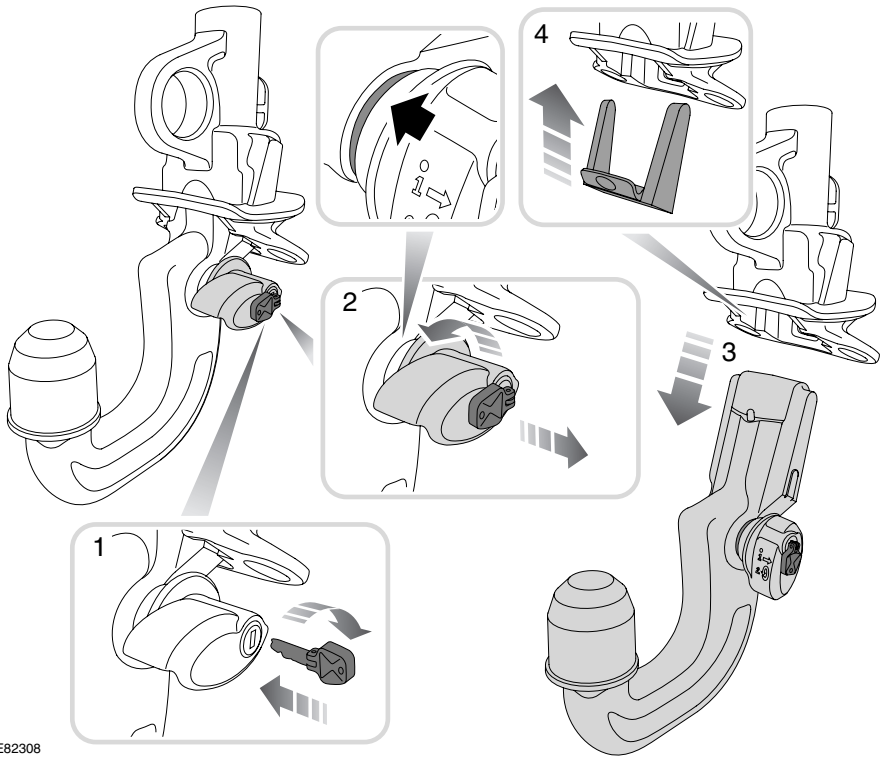


E82307

1. Remove the protective cover from the tow ball mounting and stow it in the tow ball storage area.
2. The tow ball can only be installed when the green locking lever is in the unlocked position.
3. Insert the tow ball into the mounting and push firmly upwards until the tow ball locks into position.
4. The red marker must be completely covered by the green locking lever.
5. Turn the key counterclockwise to lock the tow ball before towing. Remove the key and store in a safe place.

# Towing

## Removing the tow ball



E62308

1. Insert the key and turn it clockwise to unlock.
2. Pull the handle outwards and rotate counterclockwise until a click is heard. The marker on the handle must show red.
3. Carefully lower the tow ball and place it in its stowage area and fully secure it.
4. Replace the protective towing cover in the tow ball mounting. Press the bottom of the cover to fix it in position.




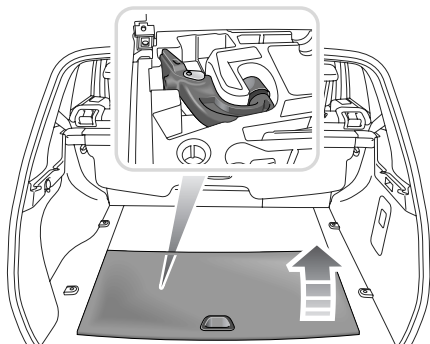
# Towing

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## TOW BALL STOWAGE

### WARNING

 When handling the tow ball, hold the bottom of the component. Locking into position occurs automatically and causes the locking lever to rotate under spring pressure.



E90956

The tow ball is stowed under an access cover in the loadspace floor.

**Note:** An Australian tow ball is visually different, but is stowed in the same place.