

Wheel changing

WHEEL CHANGING SAFETY

Before raising the vehicle or changing a wheel, make sure that you read and comply with the following warnings:

WARNING

Always find a safe place to stop, off the highway and away from traffic.

Switch on the hazard warning lamps to alert all traffic of the obstruction.

Apply the Parking brake and engage transmission P on automatic vehicles, select first or reverse gear on manual vehicles. Turn the engine off and remove the Smart key from the vehicle. Failure to do so can result in unexpected movement of the vehicle, causing serious injury or death.

WARNING

Make sure that all passengers and animals are out of the vehicle and in a safe place, away from the highway.

WARNING

If available, place a warning triangle at a suitable distance behind the vehicle, facing towards oncoming traffic.

WARNING

Disconnect trailer from vehicle.

WARNING

Make sure that the vehicle and jack are both on firm level ground. Do not jack the vehicle if it is over a metal grating or manhole cover.

Make sure that the front wheels are in the straight ahead position.

WARNING

Always use the complete jacking lever assembly throughout the tire changing process, to minimize any chance of accidental injury.

Always position the jack from the side of the vehicle, in line with the appropriate jacking point.

Never place anything between the jack and the ground, or between the jack and the vehicle. Only jack the vehicle using the approved jacking points.

Do not attempt to raise the vehicle unless the jack head is fully engaged in the jacking point.

WARNING

The jack is designed for wheel changing only.

Never work beneath the vehicle with the jack as the only means of support. Always use correctly rated vehicle support stands, before putting any part of your body beneath the vehicle.

WARNING

When one rear wheel is lifted off the ground, transmission P position will not prevent the vehicle from moving and possibly slipping off the jack, as the Parking brake operates only on the rear wheels. Use a wheel chock when jacking the vehicle.

WARNING

Always chock the wheel diagonally opposite the wheel to be changed. Chock the front of a front wheel, or the rear of a rear wheel.

⚠WARNING

If jacking the vehicle on a slight slope is unavoidable, place chocks on the downhill side of the two opposite wheels. An additional chock will be needed.

⚠WARNING

Take care when loosening the wheel nuts. The wheel brace may slip off if not properly attached and the wheel nuts may give way suddenly. Either unexpected movement, may cause an injury.

⚠WARNING

Do not start or run the engine while the vehicle is supported only by a jack.

⚠WARNING

Remove the spare wheel prior to jacking the vehicle, to avoid destabilizing the vehicle when raised.

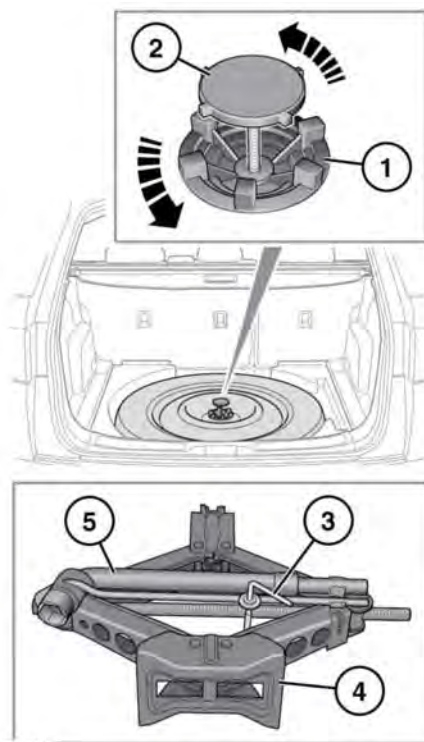
Take care when lifting the spare wheel, and removing the punctured wheel. The wheels are heavy, and can cause injuries if not handled correctly.

After wheel changing, always secure tools, chocks, jack and replaced wheel in their correct stowage positions. Such objects, if not properly stowed, can become propelled objects in a crash or rollover, potentially causing injury or death.

TOOL KIT

5 seat vehicles

Lift the loadspace floor to access the temporary spare wheel and tool kit.



1. Temporary spare wheel locking ring.
2. Temporary spare wheel retaining bolt.
3. Tool kit retaining bolt.
4. Jack.
5. Wheel brace.

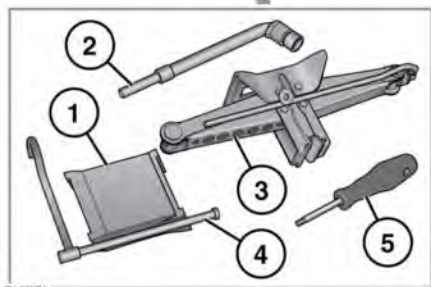
⚠WARNING

Secure the temporary spare wheel, or the removed wheel, in the correct position, using the retaining bolt.

Wheel changing

7 seat vehicles

Lift the loadspace floor to access the tool kit.



1. Wheel chocks.
2. Wheel brace.
3. Jack.
4. Winch handle for lowering the temporary spare wheel.
5. Rear bumper cover removal tool.

Note: Examine the jack occasionally, clean and grease the moving parts, particularly the screw thread, to prevent corrosion.

REMOVING THE SPARE WHEEL

⚠ WARNING

Remove the temporary spare wheel prior to jacking the vehicle, to avoid destabilizing the vehicle when raised.

⚠ WARNING

Wheels are heavy and if handled incorrectly may cause injury. Use extreme caution when lifting or maneuvering the wheels.

⚠ WARNING

After wheel changing, always secure the tools, chocks, jack and replaced wheel in their correct stowage positions. Such objects, if not properly stowed, can become flying missiles in a crash or rollover, potentially causing injury or death.

5 seat vehicles

⚠ WARNING

Always secure the temporary spare wheel, or the removed wheel, in the correct position using the retaining bolt.

1. Lift the loadspace floor to access the temporary spare wheel.
2. Turn the temporary spare wheel locking ring counter-clockwise to gain access to the retaining bolt.
3. Turn the retaining bolt counter-clockwise until it comes free.
4. Remove the temporary spare wheel.

7 seat vehicles

⚠ WARNING

The wheels are extremely heavy, take care when operating the temporary spare wheel winch, removing the temporary spare wheel and stowing the road wheel.

NOTICE

It is recommended that the road wheel is always stowed underneath the vehicle following a puncture.

NOTICE

Always stow a road wheel, and the temporary spare wheel with the outer face of the wheel facing upwards.

NOTICE

Do not operate the winch (retracting or extracting the cable) without pre-tensioning the cable as you do so. Doing so may cause damage to the winch. This pre-tensioning can be achieved, either with the weight of a temporary spare wheel, a road wheel, or by maintaining a tension using your hand.

⚠ WARNING

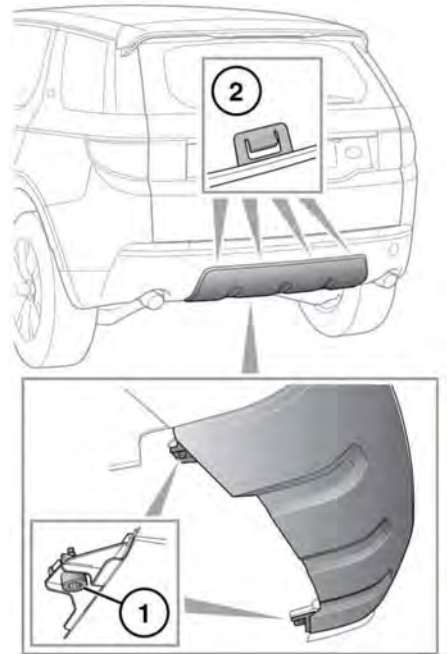
If when using your hand to tension the winch cable, take care not to trap your fingers.

NOTICE

Do not use power tools to lower the temporary spare wheel. Doing so may damage the winch mechanism.

The temporary spare wheel is located underneath the rear of the vehicle. The winch to lower the temporary spare wheel is located in the bottom of the tool tray.

Before lowering the temporary spare wheel, remove the cover in the rear bumper as follows:



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1. Using the special tool located in the tool tray, remove the 2 fixings, and store them in a safe place. See **257, TOOL KIT**.
2. Remove the cover, easing it off the 4 retaining clips.

Note: The bumper cover cannot be refitted after the full size wheel is stowed under the vehicle. Store the cover in the loadspace.

Wheel changing



To remove the spare wheel:

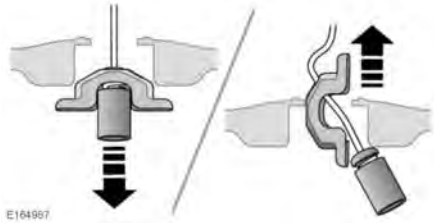
1. Remove the jack to allow access to the temporary spare wheel winch.
2. Fit the winch handle to the temporary spare wheel winch and rotate it counter-clockwise to lower the spare wheel.

Note: To avoid damage to the side trim and third row seats (if raised), slide the winch handle through the tube to shorten the handle.

3. Rotate the winch handle until the temporary spare wheel is on the ground and the winch cable is slack.

Note: Do not attempt to turn the winch beyond the physical stop.

To release the wheel from the winch:



Lift the temporary spare wheel and release the winch cable by passing it through the center of the wheel, as shown in the above graphic.

To stow the removed road wheel:

1. Remove the center cap from the road wheel and store it in a safe place.
2. Position the road wheel underneath the rear of the vehicle, with the outer-face of the road wheel facing upwards.
3. Pass the winch cable through the center of the wheel.
4. Start to turn the winch handle clockwise to take the slack out of the cable, then make sure the cable end is seated correctly before continuing to raise the wheel.
5. Continue to rotate the winch handle until the road wheel is in the stowed position.
6. Remove the winch handle and stow all of the tools and the jack in the tool tray.

Note: The bumper cover cannot be refitted to the vehicle with a stowed full sized wheel.

Operating the winch without a road wheel attached

When extracting the winch cable after the winch cable has been retracted without a road wheel attached, operate the winch as follows:

Fit the winch handle to the temporary spare wheel winch and rotate counter-clockwise to extract the cable, while also applying tension by pulling on the end of the cable.

Note: *If while the cable is being extracted, the winch feels tight or locks up, stop winding and wind back at least one full turn. Apply tension to the cable to release any cable slack, if necessary, giving it a sharp tug. Try the winch again and continue if the mechanism is free to operate. Repeat, if the winch feels tight or locks up again.*

NOTICE

If the winch feels tight or locks up, stop winding and wind back at least one full turn. If this fails to free the winch mechanism, do not continue, as damage may be caused to the winch.

Refitting the bumper cover

When the temporary spare wheel is stowed underneath the vehicle, refit the bumper cover as follows:

1. Locate the 4 retaining clips on the cover into the slots in rear bumper.
2. Locate the 2 fixing points (in the underside of the cover) to the bumper and fasten the cover to the bumper using the fixings. Tighten the fixings, using the special tool.

IMPORTANT – USE OF SPARE TIRE

⚠ WARNING

Adhere to the instructions on the temporary spare warning label, affixed to the wheel.

⚠ WARNING

Where fitted the temporary use spare wheel is **FOR TEMPORARY USE ONLY**. Drive with caution while the temporary spare wheel is fitted. Make sure that an original size wheel and tire are fitted as soon as possible.

⚠ WARNING

Do not fit more than one temporary spare wheel on the vehicle at any one time.

⚠ WARNING

Do not exceed 50 mph (80 km/h) while the temporary spare wheel is fitted.

⚠ WARNING

The temporary spare wheel must be inflated to 60 psi (4.2 Bar/420 kPa) and cannot be repaired.

⚠ WARNING

DSC must be switched on while the temporary spare wheel is in use.

⚠ WARNING

Traction devices, such as snow chains, cannot be used with a temporary spare wheel.

USING WHEEL CHOCKS

Note: *Wheel chocks are not supplied as part of the tool kit.*

Wheel changing

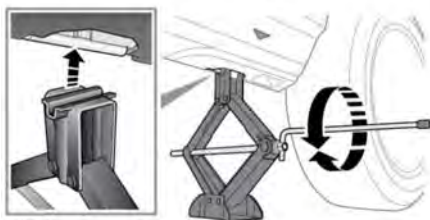
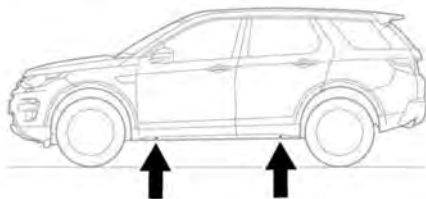
Wheel chocks are a useful addition to a vehicle's tool kit. Note the following advice when using wheel chocks:

⚠ WARNING

Always chock the wheels using suitable wheel chocks. Place the chocks on both sides of the wheel diagonally opposite the wheel to be changed.

⚠ WARNING

If jacking the vehicle on a slight slope is unavoidable, place the chocks on the downhill side of both wheels on the axle not being raised.



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WHEEL CHANGING

⚠ WARNING

Before raising the vehicle, refer to all warnings at the beginning of this section of the Owner's Handbook.

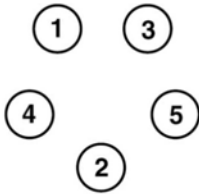
Before changing a wheel, read and observe the warnings, see **256, WHEEL CHANGING SAFETY.**

NOTICE

If your vehicle is fitted with side steps or tubes, DO NOT use them as jacking points.

1. Before raising the vehicle, use the wheel nut brace to slacken the wheel nuts of the wheel to be replaced, by half a turn counter-clockwise.
2. Locate the jack under the relevant jacking point.
Note: Do not allow the jack to contact the sill at any other point, as damage may result.
3. Unfold the cranking handle from its stowed position on the jack. Fit the wheel nut brace to the end of the cranking lever.
4. Rotate the handle clockwise to raise, until the jack pin locates into the jacking point.
5. Continue raising the vehicle until the wheel is clear of the ground.
6. Remove the wheel nuts and place them together where they cannot roll away.
7. Remove the wheel and place it to one side. Do not lay the wheel on its face, as this may damage the finish.

8. Fit the temporary spare wheel to the hub.
9. Re-fit the wheel nuts and lightly tighten them. Make sure the wheel is making contact with the hub evenly.
10. Make sure the space under the vehicle is clear of obstructions before lowering the vehicle slowly and smoothly.
11. With all of the wheels on the ground and the jack removed, fully tighten the wheel nuts. The wheel nuts must be tightened in sequence (see the illustration below) to the correct torque of 98 lb.ft (133 Nm).



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Note: If it is not possible to torque the wheel nuts when a wheel is replaced, they should be set to the correct torque as soon as possible.

Check and adjust the tire pressure as soon as possible.