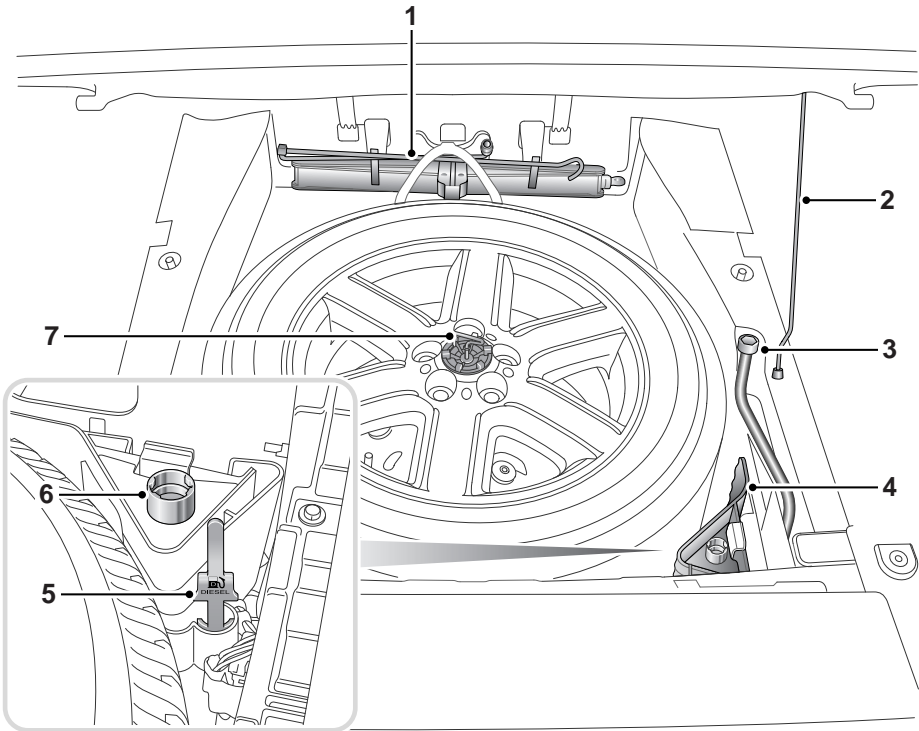


Wheel Changing

TOOL KIT



LAN0480G

The wheel change tool kit is stowed in the spare wheel well, under an access hatch in the rear loadspace area.

1. Wheel change jack.
2. Spare wheel hatch support stay.
3. Wheel nut brace.
4. Wheel chocks.
5. Diesel misfuel protector reset tool.
6. Locking wheel nut adaptor.
7. Spare wheel retaining bolt.

WARNING

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

Wheel Changing

Care of the jack

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

To avoid contamination, the jack should always be stowed in its fully closed position.

WHEEL CHANGING

If a wheel change is required, pull off the road completely. Park on ground which is as level and solid as possible. Ensure that the vehicle is clear of any objects that will obstruct the safe removal of the wheel. Switch on the hazard warning lights, and where legally required, display a warning triangle.

Caution: If the vehicle is fitted with the optional Deployable Side Steps, do not attempt to jack up the vehicle. The steps must be removed before jacking can proceed. Refer to the information supplied with the side steps for removal details. Alternatively, refer to your Warranty Benefits book and contact the appropriate recovery service for assistance.

Always ask your passengers to get out of the vehicle and wait in a safe area away from other traffic. Disconnect any attached trailer or caravan.

Before changing a wheel, ensure the front wheels are in the straight ahead position (if possible), apply the parking brake, select **P** (Park) and select Low range in the transfer box.

Before attempting to raise the vehicle using a jack, the suspension must be set to 'On Road' or 'Normal' height.

Switch the ignition off. Observe the following precautions:

- Ensure the jack will be positioned on firm, level ground. Never on soft ground, or over metal gratings or manhole covers. Do not place additional material between the jack and the ground, this may jeopardise the safety of the jacking operation.
- Chock the wheels.
- Never raise the vehicle with passengers inside, or with a caravan or trailer connected.

Tilt sensor

Your vehicle is fitted with a tilt sensor which activates the alarm if the vehicle is tilted fore and aft, or side to side, after it has been locked.

If you wish to have the doors locked while jacking up the vehicle, for any reason, lock the doors by pressing the lock button twice within 10 seconds. If you use the key to lock the doors, turn the key in the driver's door lock towards the rear of the vehicle twice within 10 seconds.

Using wheel chocks

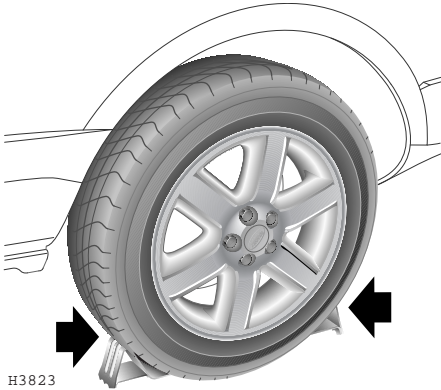
WARNING

When lifting the vehicle, ensure the vehicle is parked on level ground.

Before raising the vehicle, the road wheel diagonally opposite must be securely chocked. Both chocks must be used on opposite sides of the wheel and must be securely pushed against the tyre.

If jacking the vehicle on a slope is unavoidable, place the chocks on the downhill side of the two opposite wheels.

Wheel Changing



H3823

The wheel chocks are stowed in the spare wheel well. See **TOOL KIT** (page 230).

Using the warning triangle

Storage position for a warning triangle is provided behind the rear loadspace access hatch. See **REAR LOADSPACE ACCESS HATCH** (page 118). for instructions on opening the hatch.

Place the warning triangle at a suitable distance behind the vehicle, to warn other drivers of a possible obstruction.

TEMPORARY SPARE WHEEL

Some vehicles, while fitted with alloy road wheels, have a reduced size steel or alloy wheel as a spare.

This is designated a **temporary use spare** and is shown by having a speed restriction label attached to the wheel. Please see read the following warnings carefully and ensure they are fully understood.

WARNING

The following precautions must be observed when the temporary spare wheel is in use:

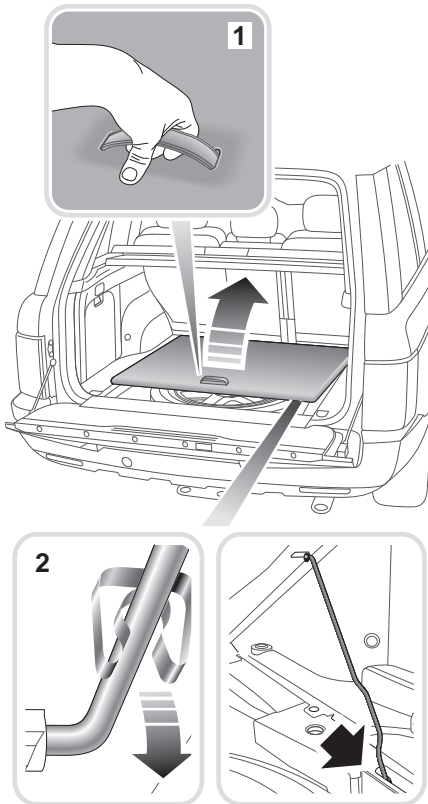
- Drive cautiously; the temporary spare wheel tyre is smaller in size and higher in pressure than a regular tyre. It will cause a harsher ride and may have less traction on some road surfaces. If driving off-road on a temporary spare wheel, drive with extra caution.
- The temporary spare wheel is for temporary use only. It must be replaced by a normal-sized wheel and tyre as soon as possible.
- Only one temporary spare wheel is to be used on the vehicle at any one time.
- Do not drive at a speed exceeding 80 km/h (50 mph).
- The tyre pressure in the temporary use spare wheel/tyre should be as specified in the wheels and tyres section. See **WHEELS AND TYRES** (page 255).
- The temporary spare wheel has a shorter life than a regular tyre. Replace the tyre with the same type and specification.
- The use of snow chains is not permitted on a temporary spare wheel.

Wheel Changing

REMOVING THE SPARE WHEEL

WARNING

The wheels are extremely heavy. Take care when lifting and particularly when removing the spare wheel from the rear loadspace and when lifting the replaced wheel back into the spare wheel well.



LAN1956

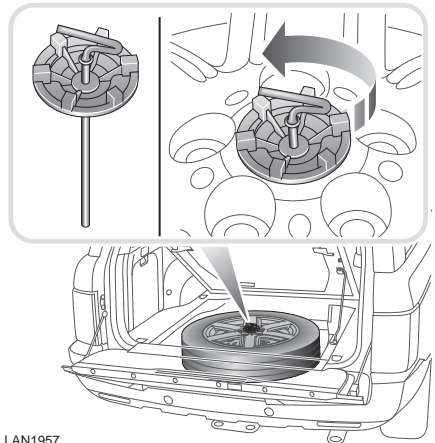
To access the spare wheel well, it is necessary to fold the rear edge of the loadspace cover forward. See **LOADSPACE COVER** (page 120).

With the tailgate open:

1. Lift the handle (1) to open the spare wheel access hatch.
2. Unclip the support stay (2) from the underside of the hatch and slot the end into the hole to the side of the spare wheel aperture (solid arrow in inset), to keep the access hatch open.

Unhook the wheel changing jack restraining strap and remove the jack. Remove the wheel chocks and wheel nut brace. See **TOOL KIT** (page 230).

3. Loosen the spare wheel retaining bolt, remove bolt and spare wheel.



LAN1957

Wheel Changing

CHANGING A WHEEL

Note: If the vehicle is fitted with the optional Electronic Side Steps, do not attempt to jack up the vehicle. Refer to your Warranty Benefits book and contact the appropriate recovery service for assistance.

Positioning the jack

WARNING

The vehicle jack supplied with your vehicle should only be used when changing a wheel in emergency situations.

Before using the vehicle jack, check that it is not damaged or deformed and that the thread is lubricated and free from foreign matter.

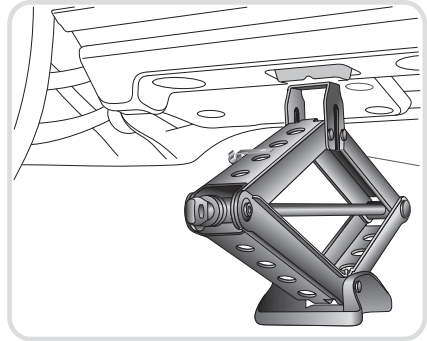
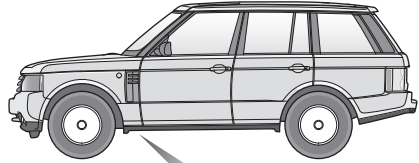
Never place anything between the jack and the ground, or the jack and the vehicle.

Never work beneath the vehicle with the jack as the only means of support. The jack is designed for wheel changing only. Always:

- Place the jack on firm, level ground.
- Position the jack from the side of the vehicle, in line with the appropriate jacking point.
- Raise the jack so that the pin in the head of the jack engages with a hole in the chassis rail at the points shown in the illustrations.

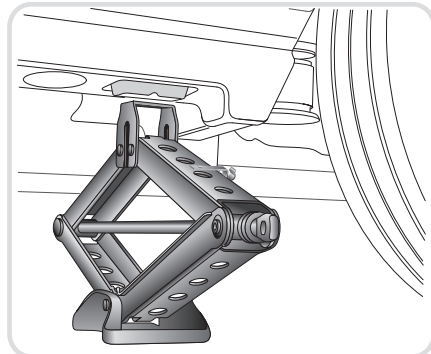
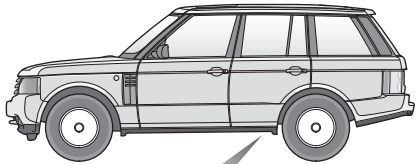
Caution: Use only the specified jacking points. If you use other positions, you may damage the body, steering, suspension, engine, braking system or the fuel lines.

Always position the jack from the side of the vehicle in line with the appropriate jacking point. Ensure the jack is positioned on firm, level ground.



LAN1958

Front jacking point

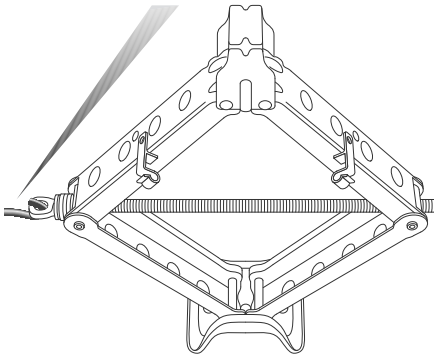
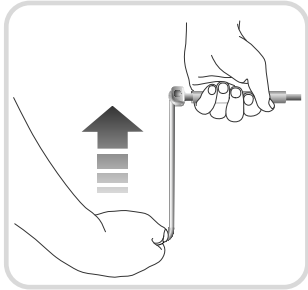


LAN1959

Rear jacking point

Wheel Changing

Operating the jack



H4110

Position the jack under the relevant jacking point, attach the jack cranking handle to the jack.

Turn the jack handle clockwise to raise the jack cradle until it engages with the jacking point.

Ensure that the base of the jack is in full contact with the road surface.

WARNING

Always use the jack lever throughout to minimise any chance of accidental damage or injury.

Changing a wheel

WARNING

Make sure that the vehicle is on firm, level ground with the wheels pointing straight ahead.

Make sure that the jack is vertical to the jacking point and the base is flat on the ground.

Have the passengers leave the vehicle.

Do not work underneath the vehicle when it is supported only by a jack.

1. Before raising the vehicle, use the wheel nut brace to slacken the wheel nuts half a turn anticlockwise.
2. Raise the vehicle until the tyre is clear of the ground.
3. Remove the wheel nuts and place to one side to prevent them from being lost.
4. Remove the road wheel.

Caution: Do not damage the surface of the wheel by placing it face down on the road.

5. On alloy wheels, use an approved anti-seize compound to treat the wheel mounting bore. This will minimise any tendency for adhesion between the wheel and the bore.

Ensure that no compound comes into contact with the brake components or the flat mounting surfaces of the wheel.

If, due to an emergency situation, this treatment is not practicable; refit the spare wheel for the time being, but remove and treat the wheel at the earliest opportunity.

6. Fit the spare wheel and lightly tighten the wheel nuts, ensuring they are firmly seated. Do not fully tighten whilst the tyre is clear of the ground.

Wheel Changing

WARNING

When fitting a wheel, ensure that the mating faces of the hub and wheel are clean and free from rust or anti-seize compound - any accumulation of dirt or rust could cause the wheel nuts to become loose and result in an accident.

7. Ensure that the space under and around the vehicle is free from obstructions then lower the vehicle and remove the jack and wheel chocks.
8. Fully tighten the wheel nuts in an alternating pattern until all are tightened. Do not overtighten by using foot pressure or extension bars on the wheel stud brace, as this could overstress the wheel nuts. Check the wheel nut torque at the earliest opportunity.

Road wheel nut torque	140 Nm (103 lbf.ft)
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9. Using a suitable blunt tool, apply light pressure to the rear of the replaced wheel centre cap and remove. Using hand pressure only, fit the centre cap into the newly fitted wheel. Return tools, chocks, jack and the replaced wheel to their correct storage positions.

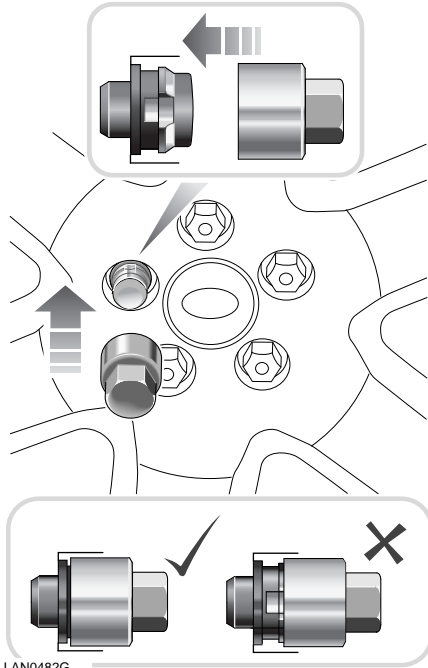
Note: Storing the wheel in the spare wheel well can be achieved by following the spare wheel removal procedure in the reverse order.

10. Remember to change to High range before driving.
11. Finally, check the tyre pressure at the earliest opportunity. See **WHEELS AND TYRES** (page 255).

For additional information on your tyres, See **TYRE CARE** (page 216).

LOCKING WHEEL NUTS

Vehicles may be equipped with a locking wheel nut on each wheel. These are similar to standard wheel nuts but can only be removed using the adaptor provided in the tool kit.



Note: A code number is stamped on the locking nut. Ensure the number is recorded on the Security Information card supplied with the literature pack. Quote this number if a replacement is required. Do not keep the Security Information card in the vehicle.

Insert the adaptor firmly onto the locking wheel nut. Using the wheel nut brace, unscrew the wheel nut and adaptor.

Return the locking wheel nut adaptor to the correct storage position.