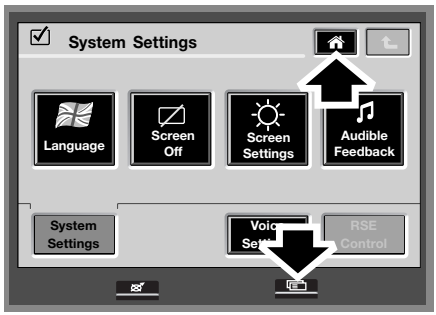
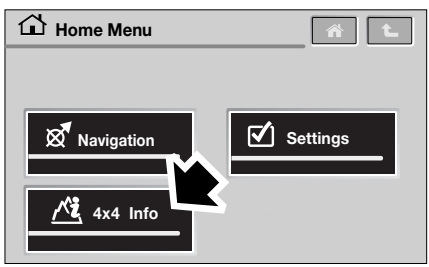
ACCESSING 4 x 4 Info



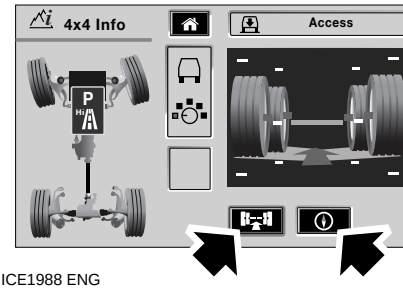
ICE1987 ENG

To access the 4 x 4 Info screen, navigate to the Home Menu screen by pressing the driver information hard key or by pressing the home menu soft key.



ICE1964 ENG

From the Home Menu, navigate to the 4 x 4 Info screen by pressing the relevant key.



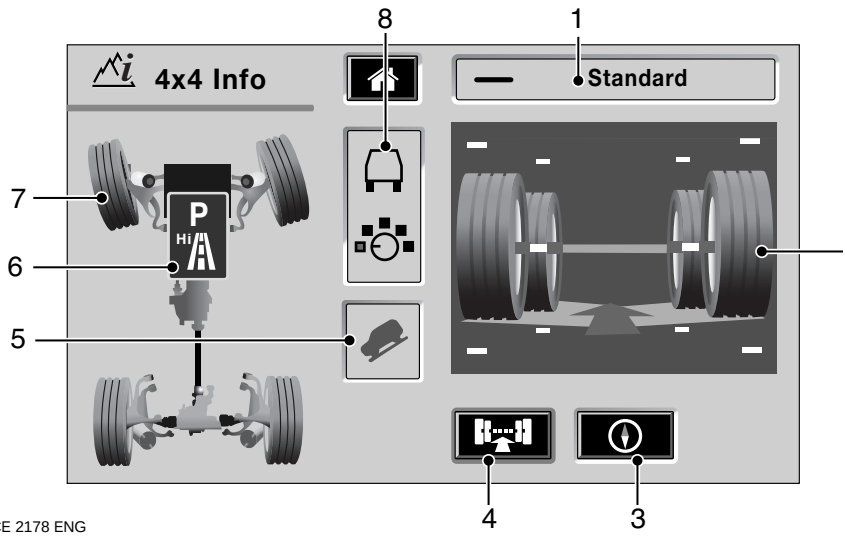
ICE1988 ENG

From this screen, Chassis and Compass information can be accessed.

These features allow the user to monitor data hosted on the 4x4 Info display.The user has no control over any of these features. An amber halo around the selected soft key will indicate the current display view.

Chassis View

CHASSIS VIEW CONTROLS



ICE 2178 ENG

1. Suspension status.
2. Wheel displacement status.
3. Compass view soft key.
4. Chassis view soft key.
5. Hill descent control status.
6. Gearbox status.
7. Steering angle status.
8. Terrain Response status.

Selecting chassis view

To access chassis view, press the chassis view soft key (4). An amber halo appears around the soft key to indicate that chassis view is selected.

SUSPENSION INFORMATION

The air suspension has three selectable suspension heights.

- Off Road
- Standard
- Access

In any of these states, the suspension status window in the top right of the display indicates the current suspension setting.

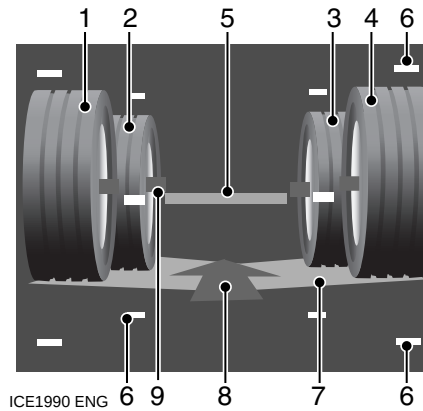
The setting is also displayed graphically in the wheel displacement window.

The display contains a representation of the four road wheels, along with several discrete graphical elements. These graphical elements move in direct response to actual wheel height changes.

The vertical position of each road wheel graphic is determined by data from height sensors.

Beneath the wheel graphics are shapes that represent the area of contact of the wheels with the ground.

Effectively, there are two separate contact areas, one representing the left side and the other representing the right side of the vehicle. Movement of either of the left wheels, will transform the shape of the left side contact area, but have no effect on the right side. Likewise, movement of the right wheels will transform the shape on the right side, with no effect on the left.



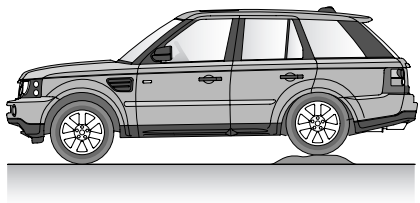
ICE1990 ENG

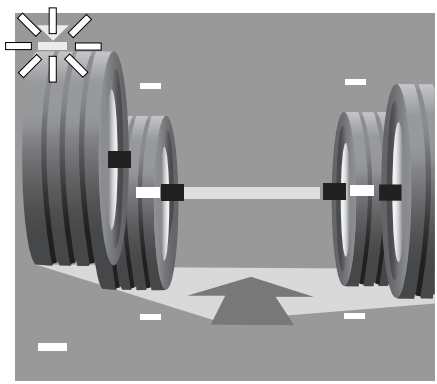
The discrete graphical elements represent the following:

1. Left rear wheel.
2. Left front wheel.
3. Right front wheel.
4. Right rear wheel.
5. Nominal vehicle body height.
6. Limit markers indicates extremes of travel.
7. Contact area with the ground.
8. Direction of travel.
9. Wheel centre line.

Note: *Although the front and rear wheels appear to be at different heights, they are only presented this way to give a sense of perspective.*

For example, if the left rear wheel travels over a rock, the wheel is pushed up into the vehicle body. Data from the wheel height sensor is represented by moving the vertical position of the left rear wheel graphic up the screen. In addition, the contact area moves to maintain contact with the left rear wheel.

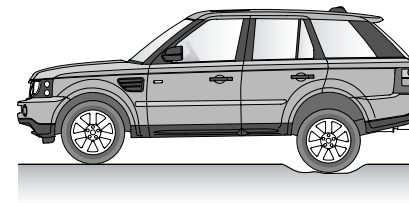


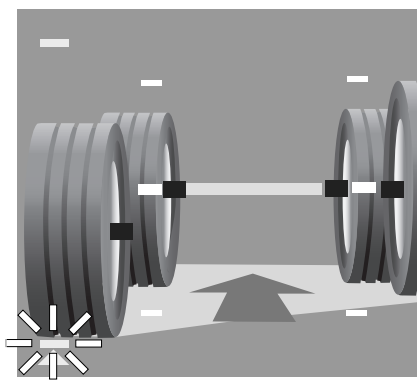


ICE2216 ENG

When the left rear wheel reaches the extreme of its travel, the upper limit marker will flash amber. The top of the left rear wheel lines up with the upper limit marker when the wheel is at the upper extreme of its travel. This is more likely to occur when driving off road, than in normal driving conditions.

In the reverse situation, where the left rear wheel has reached the lower extreme of its travel, the lower travel limit marker will flash amber. In addition, the appropriate corner of the contact area is shown in its lowest position, as shown in the illustration.



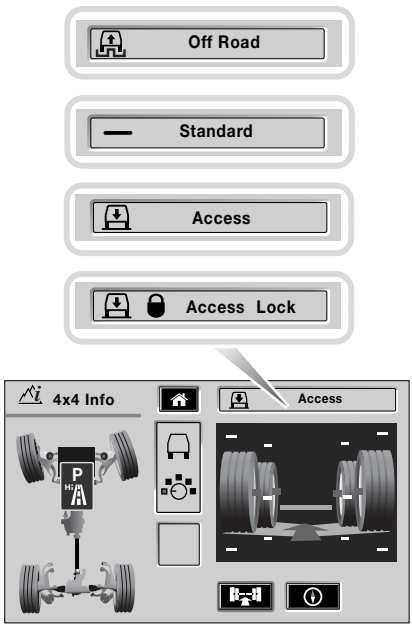


ICE2217 ENG

Note: *The examples represent the left rear wheel, however, all other wheels follow the same sequence given similar circumstances.*

STANDARD SUSPENSION HEIGHT

Under normal circumstances and general road use, it is recommended that the user sets the suspension height to standard.



ICE1993 ENG

For explanation purposes, the vehicle is shown at access height. In this position, the display shows the wheels close to the upper limit markers and the green centre marker (nominal vehicle body height) lower than the wheels' centre lines, indicating that the body is lower than standard height. Coupled with this, the suspension status is displayed above the main graphic.

To raise the suspension from access height to standard height, refer to the **Air Suspension** section of the Owner's Handbook.

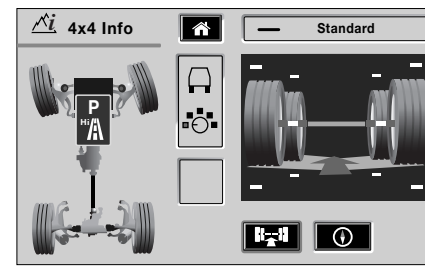
Immediately this height change commences, the display shows the text message **Raising** and replaces the access height graphic with the standard height graphic.

In addition, an arrow is displayed, indicating the direction of travel of the vehicle. During a height change, the arrow head will flash on and off.

The wheel height graphical display will progressively change, showing the changing relationship between the individual wheels and the vehicle body.

Standard height reached

When standard height is reached, the arrow icon disappears and the current vehicle height is displayed.

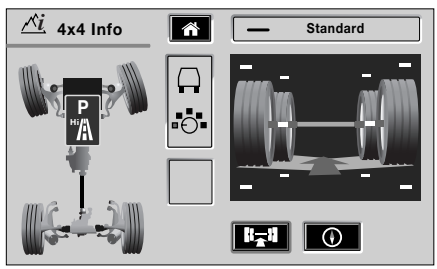


ICE1851 ENG

OFF ROAD SUSPENSION HEIGHT

When the vehicle is set to the off road ride height, the air springs are extended to push the wheels further away from the chassis. This lifts the vehicle body by a controlled distance, giving a greater ground clearance for off road driving.

Note: *Vehicles with air suspension will maintain a set ride height, under all loading conditions, up to the design loading limit. The suspension system will compensate for the increased load, by increasing the air pressure in the system.*



ICE1851 ENG

For explanation purposes the vehicle is shown at standard height. In this position, the display shows the wheels centralised to the upper/lower limit markers and the green centre marker (nominal vehicle body height), indicating that the body is at standard height. Coupled with this, the suspension status is displayed above the main graphic.

To raise the suspension from standard height to off road height, refer to the **Air Suspension** section of the Owner's Handbook.

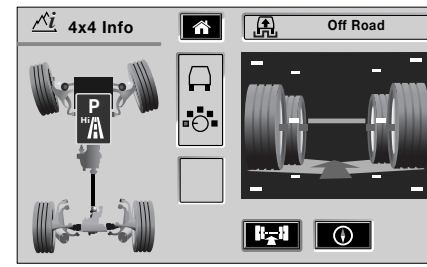
Immediately this height change commences, the display shows the text message **Raising** and replaces the standard height graphic with the off road height graphic.

In addition, an arrow is displayed indicating the direction of travel of the vehicle. During a height change, the arrow head will flash on and off.

The wheel height graphical display will progressively change, showing the changing relationship between the individual wheels and the vehicle body.

Off road height reached

When off road height is reached, the arrow icon disappears and the current vehicle height is displayed.



ICE1852 ENG

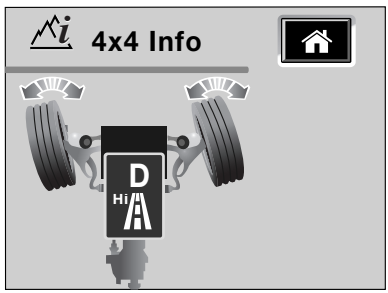
Note: *Selecting the* ***Access*** *suspension setting, or any other lowering sequence, follows the same logical concept as the raising sequence.*

Note: *A change to the vehicle suspension height may also be made automatically by the selection of some Terrain Response modes. If this happens, the displays will change in exactly the same way as if the user had operated the suspension switch control.*

STEERING ANGLE DATA

The steering angle data changes with movements of the steering wheel. The graphic represents the data by rotating the front road wheels in the plan view.

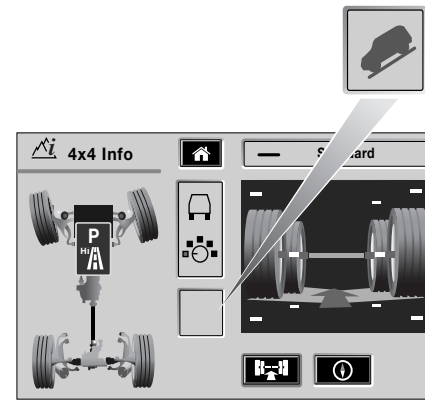
The maximum orientation of the wheel graphics is 30 degrees from the straight ahead position, indicating full lock.



ICE2182 ENG

HILL DESCENT CONTROL

When Hill Descent Control (HDC) is selected, the icon will be displayed continuously.



ICE1994 ENG

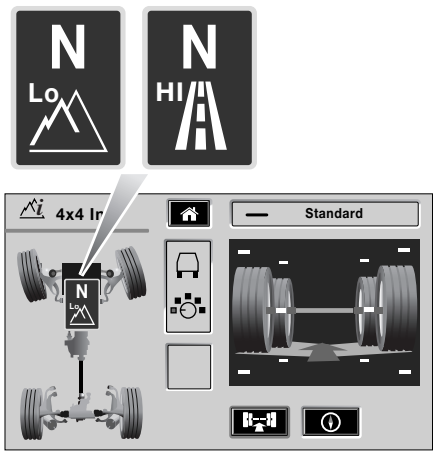
When HDC is selected but there is a condition that inhibits the activation of HDC (such as wrong gear selection), then the green information indicator will flash and the HDC icon on the 4 x 4 Info screen will flash on and off.

For more detailed information on Hill Descent Control, see **Hill Descent Control** in the Owner's Handbook.

Note: *A change to the Hill Descent Control setting may also be made automatically by the selection of some Terrain Response modes. If this happens, the display will change in exactly the same way as if the user had operated the Hill Descent Control switch.*

TRANSFER GEARBOX DATA

The transfer gearbox High and Low range is represented graphically on the chassis map graphic.



ICE1995 ENG

For more detailed information on Transfer Gearbox use, see **Transfer Gearbox** in the Owner's Handbook.

When a range selection is performed, the appropriate graphic will be displayed in the chassis map.

LOW range display.

HIGH range display.

In addition to the operational states of the transfer gearbox, the vehicle can be set in a neutral mode for towing. See **Towing the Vehicle** in the Owner's Handbook.

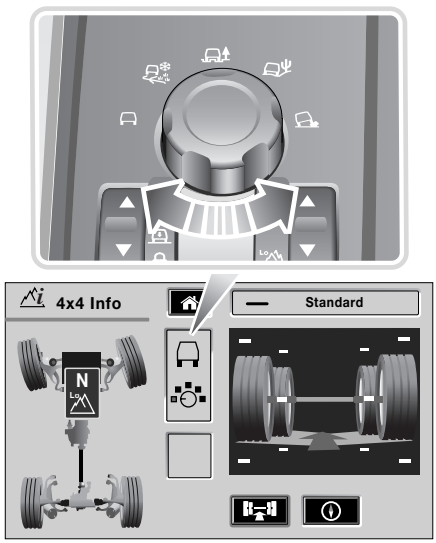
If the 4 x 4 Info display view is active when neutral mode is selected, the display will show a white **N** character in place of the range icons.

Gear selection data

The display also indicates the current transmission selection. For example, if reverse gear is selected, then **R** is displayed on the gearbox data icon.

TERRAIN RESPONSE™

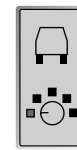
The Terrain Response system has a choice of operational modes, selected by the rotary switch situated on the centre console. For more detailed information on Terrain Response use, see Terrain Response in the Owner's Handbook.



ICE2215 ENG

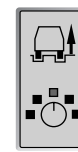
The appropriate icon for the selected Terrain Response mode will be displayed in the top of the central display. In addition, a representation of the Terrain Response switch position can be viewed in the bottom of the central display.

The Terrain Response system has 5 operational modes.



General mode.

Grass/Gravel/Snow mode.



Mud/Ruts mode.

Sand mode.

Rock Crawl mode.

Note: *In the fail-safe default mode, the manual selection of a specific Terrain Response mode will not be available and the system will revert to General mode. The graphic representation of the Terrain Response switch position will not be displayed, indicating the loss of manual control of the feature.*

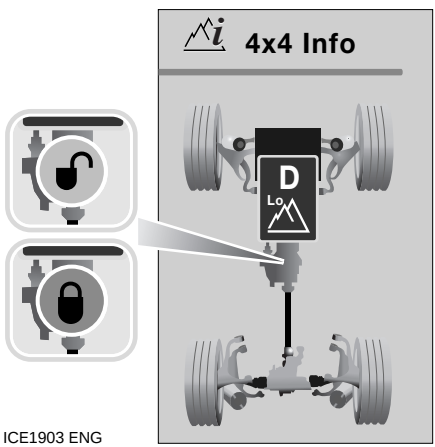
DIFFERENTIALS

Centre differential

The centre differential is controlled partly by the Terrain Response system, which causes it to react to wheel slip in accordance with the currently selected mode.

If the Terrain Response system is set to a mode other than General, then the centre differential locking is actively controlled by the Driveline Electronic Control Unit (ECU).

When the Driveline ECU determines that locking torque equals or exceeds the pre-set values for a given terrain setting, it will indicate that the centre differential is behaving as a locked differential by displaying a red locked graphic representation.

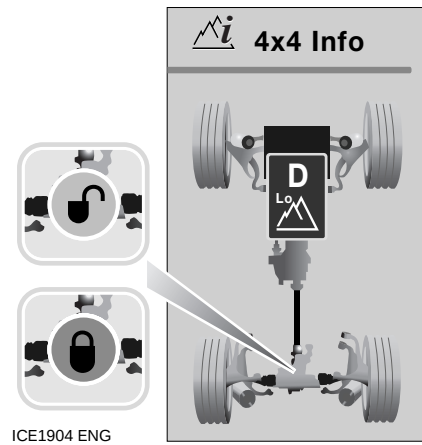


ICE1903 ENG

Rear differential

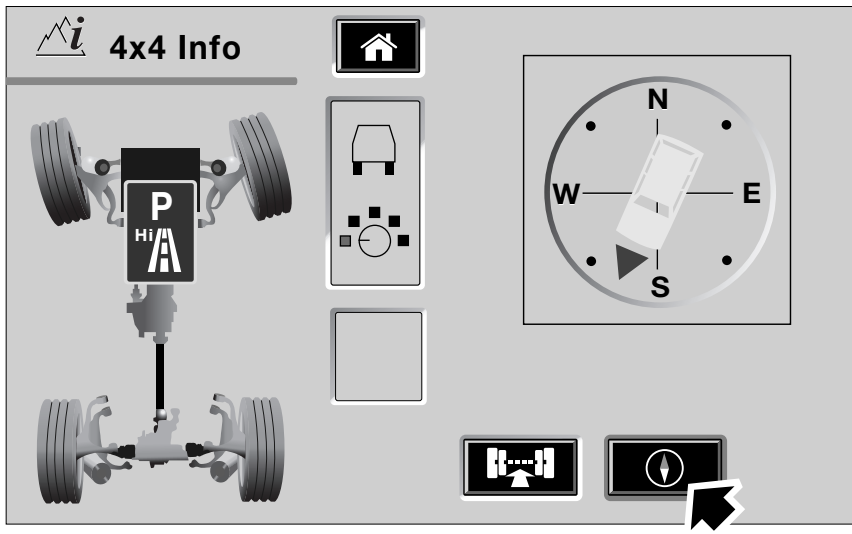
If the Terrain Response system is set to a mode other than General, then the rear differential locking is actively controlled by the Driveline Electronic Control Unit (ECU).

When the Driveline ECU determines that locking torque equals or exceeds the pre-set values for a given terrain setting, it will indicate that the rear differential is behaving as a locked differential by displaying a red locked graphic representation.



ICE1904 ENG

COMPASS CONTROLS



ICE1856 ENG

Note: *Compass will only be displayed when navigation is in off road mode.*

Press the **Compass** soft key (arrowed) to display the compass screen.

The amber halo around the compass soft key indicates the current display view.

The compass screen displays a graphic indicating the heading of the vehicle against the compass points. If the **North-up** display mode is active in the navigation system, the compass points are fixed and the vehicle pointer will rotate to indicate the vehicle heading.

If the **Heading up** display mode is active in the navigation system, then the vehicle pointer will be fixed vertically on the display and the compass points will rotate to indicate the vehicle heading. For more detailed information on selecting the vehicle heading, see **SCREEN DISPLAYS, 24**.