

Ford**Transit**  
Owner's handbook

Feel the difference



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# Introduction

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## ABOUT THIS HANDBOOK

Thank you for choosing Ford. We recommend that you take some time to get to know your vehicle by reading this handbook. The more that you know about it, the greater the safety and pleasure you will get from driving it.

**Note:** *This handbook describes every model and option, sometimes even before they are generally available. It may describe options not fitted to your vehicle.*

**Note:** *Always use and operate your vehicle in line with all applicable laws and regulations.*

**Note:** *Pass on this handbook when selling your vehicle. It is an integral part of the vehicle.*

## SYMBOLS GLOSSARY

### Symbols in this handbook

#### WARNING



You risk death or serious injury to yourself and others if you do not follow the instructions highlighted by the warning symbol.

---

#### CAUTION



You risk damaging your vehicle if you do not follow the instructions highlighted by the caution symbol.

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## Symbols on your vehicle



When you see these symbols, read and follow the relevant instructions in this handbook before touching or attempting adjustment of any kind.

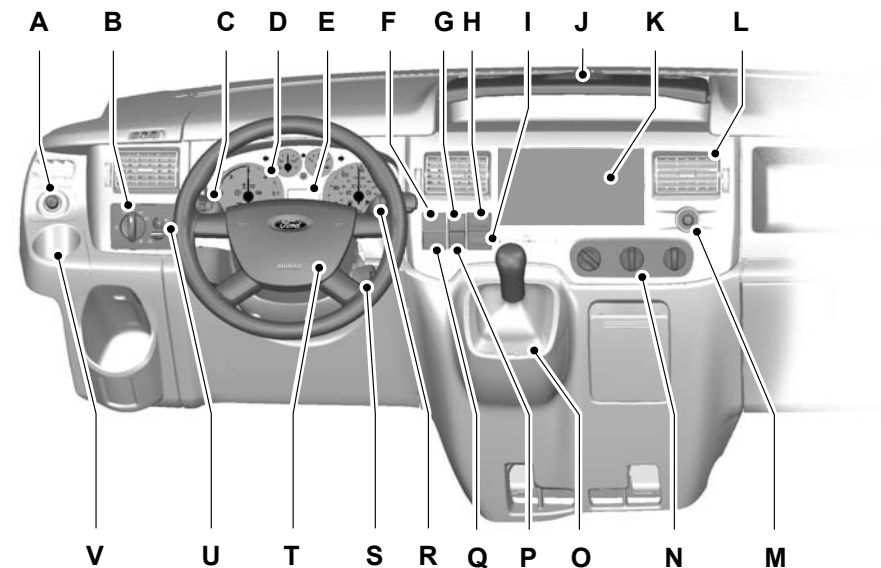
## PARTS AND ACCESSORIES

Genuine Ford parts and accessories have been designed specifically for your vehicle. Unless we have specifically stated, we have not tested non-Ford parts and accessories and, therefore, we will not guarantee that they are suitable for your vehicle. We recommend that you ask your Ford Dealer for advice on parts and accessories suitable for your vehicle.

# Quick start

## QUICK START

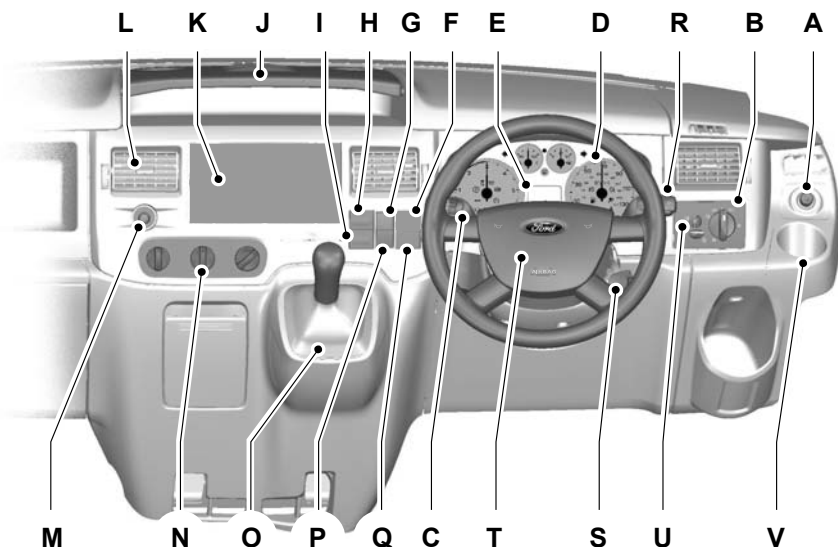
### Instrument panel overview - left-hand drive



E70781

# Quick start

## Instrument panel overview - right-hand drive



E76166

- A Electric exterior mirror switch. See **Electric exterior mirrors** (page 47).
- B Lighting control. See **Lighting control** (page 32).
- C Multifunction lever. See **Direction indicators** (page 34). See **Lighting control** (page 32).
- D Instrument cluster. See **Gauges** (page 49).
- E Clock.
- F All wheel drive (AWD) indicator. See **All-wheel drive (AWD)** (page 92).
- G Hazard warning flasher switch. See **Hazard warning flashers** (page 34).
- H Heated windscreen switch. See **Heated windows and mirrors** (page 69).

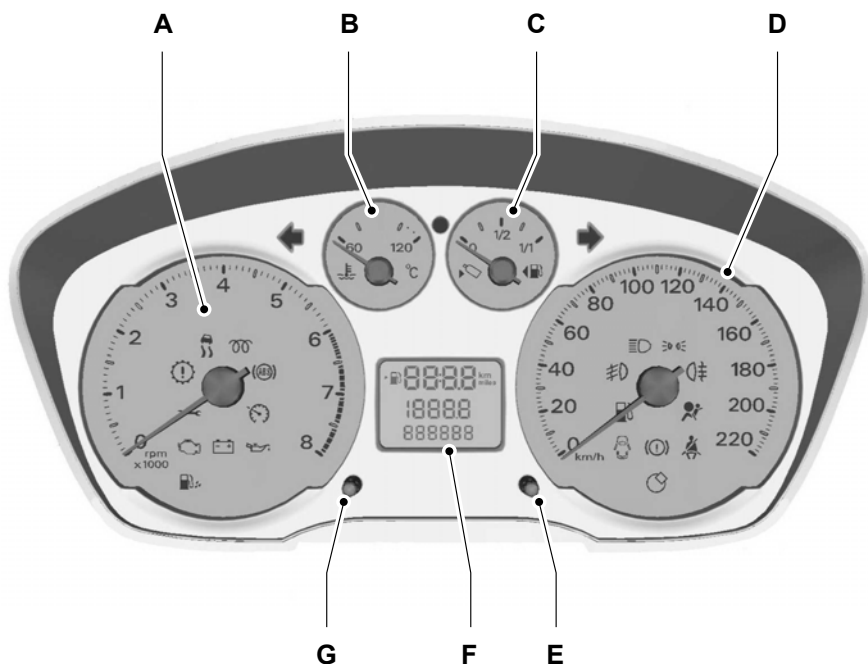
# Quick start

- I Heated rear window switch. See **Heated windows and mirrors** (page 69).
- J Tray with cup holders. See **Cup holders** (page 81).
- K Audio unit. See separate handbook.
- L Air vents. See **Air vents** (page 66).
- M Cigar lighter. See **Cigar lighter** (page 80).
- N Climate controls. See **Climate control** (page 65).
- O Gear lever. See **Manual transmission** (page 92).
- P Passenger airbag deactivation warning lamp. See **Disabling the passenger airbag** (page 17).
- Q Stability control (ESP) switch. See **Stability control** (page 96).
- R Wiper lever. See **Wipers and washers** (page 28).
- S Ignition switch.
- T Horn.
- U Headlamp levelling control. See **Headlamp levelling** (page 34).
- V Cup holder. See **Cup holders** (page 81).



# Quick start

## Low series instrument cluster



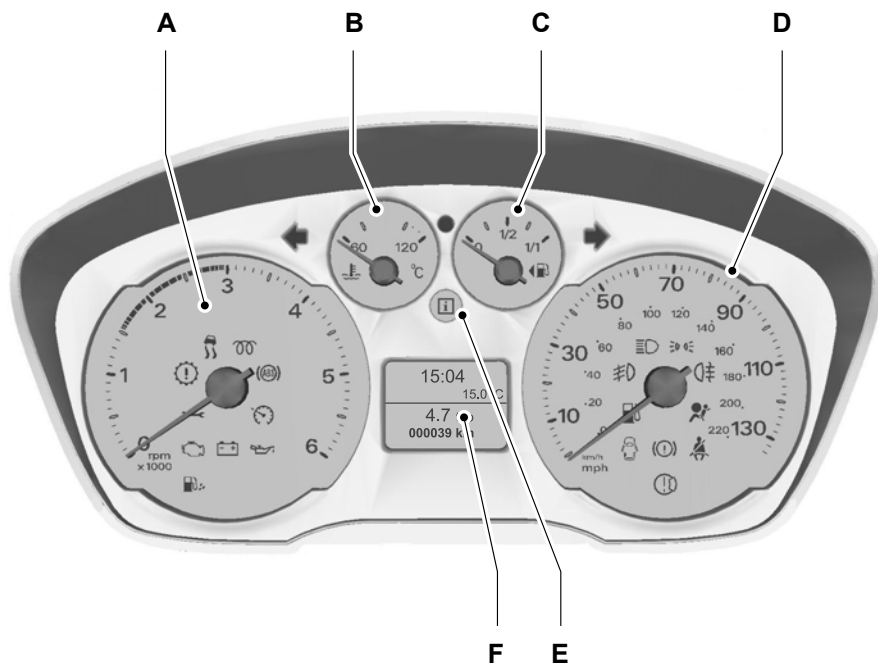
E71334

- A Tachometer
- B Engine coolant temperature gauge
- C Fuel gauge
- D Speedometer
- E Tripmeter reset button
- F Odometer, tripmeter, clock, distance to empty and door open warning indicator
- G Clock set button

# Quick start

See **Gauges** (page 49).

## High series instrument cluster



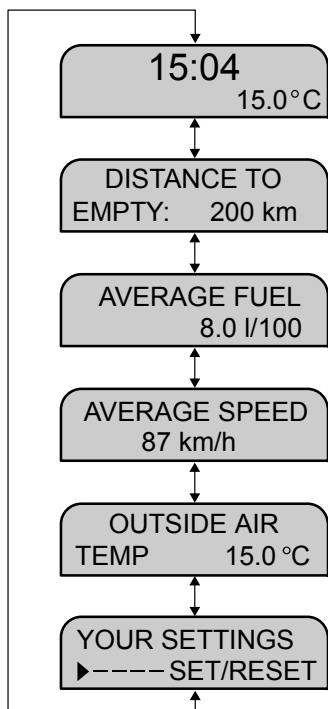
E73043

- A Tachometer
- B Engine coolant temperature gauge
- C Fuel gauge
- D Speedometer
- E Information message warning lamp
- F Information display. See **Information displays** (page 57).

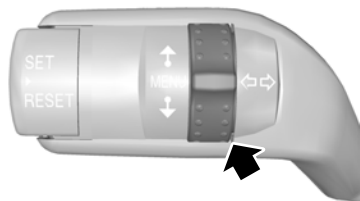
# Quick start

See **Gauges** (page 49).

## Information displays



E73982



E73265

Use the rotary control to scroll through the menu.



E73266

Press the **SET and RESET** button to select a sub-menu or the item that you want to adjust.

See **Information displays** (page 57).

## Warning lamps and indicators



Brake pad wear warning lamp



Brake system warning lamp



Cruise control indicator



Hill launch assist indicator



Message indicator lamp



Stability control (ESP) and traction control warning lamp

# Quick start



Service interval indicator lamp (vehicles with a diesel engine)



Shift indicator

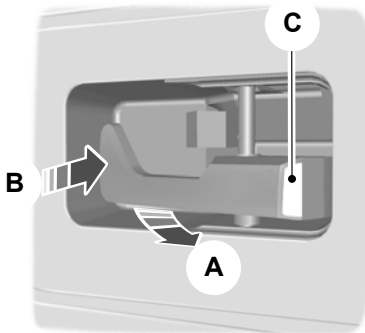


Water-in-fuel indicator lamp (vehicles with a diesel engine)

See **Warning lamps and indicators** (page 52).

## Locking and unlocking

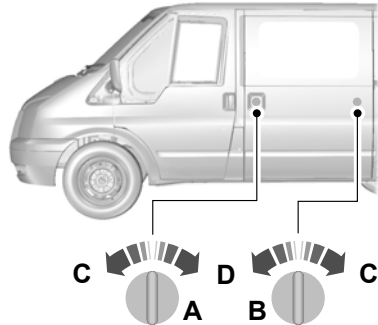
### Rear doors



E71287

- A Unlock or open
- B Lock
- C White visible, door locked

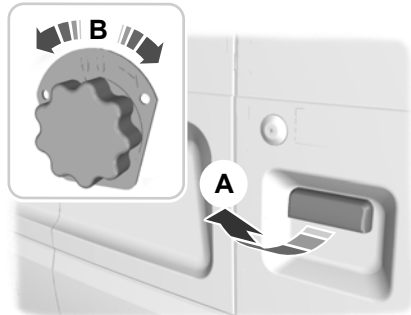
### Sliding door



E71289

- A Van and Kombi
- B Bus
- C Lock
- D Unlock

### Double rear doors

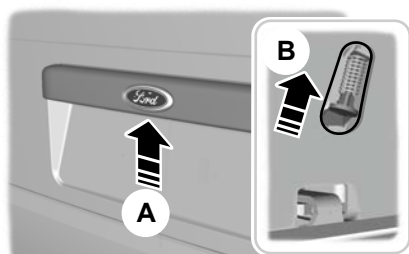


E71290

- A Outside
- B Inside

# Quick start

## Tailgate



E71292

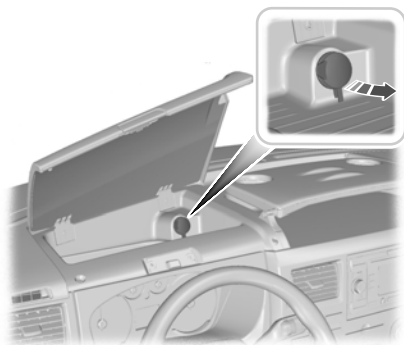
A Outside

B Inside

## Locking system operation

The locking system of your vehicle may have been configured to operate in one of three main lock operation combinations. See **Locking and unlocking** (page 20).

## Auxiliary power sockets



E69125

## CAUTION

**!** If you use the auxiliary power socket when the engine is not running, the battery may discharge.

Switch the ignition on to use the auxiliary power socket.

## Engine idle speed after starting

The engine may idle at a higher speed than normal immediately after starting from cold.


See **Starting the engine** (page 84).


# Occupant protection


## PRINCIPLE OF OPERATION

### Airbags


#### WARNINGS


 Do not modify the front of your vehicle in any way. This could adversely affect deployment of the airbags.


 Original text according to ECE R94.01: Extreme Hazard! Do not use a rearward facing child restraint on a seat protected by an air bag in front of it!

 Wear a seat belt and keep sufficient distance between yourself and the steering wheel. Only when you use the seat belt properly, can it hold you in a position that allows the airbag to achieve its optimum effect. See **Sitting in the correct position** (page 74).

 Have repairs to the steering wheel, steering column, seats, airbags and seat belts carried out by properly trained technicians.

 Keep the areas in front of the airbags free from obstruction. Do not affix anything to or over the airbag covers.

 Do not poke sharp objects into areas where airbags are fitted. This could damage and adversely affect deployment of the airbags.

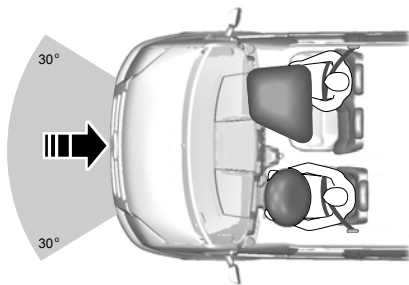
 Use seat covers designed for seats with side airbags. Have these fitted by properly trained technicians.

**Note:** You will hear a loud bang and see a cloud of harmless powdery residue if an airbag deploys. This is normal.

**Note:** The front passenger airbag protects both positions of a double seat.

**Note:** Only wipe airbag covers with a damp cloth.

### Driver and front passenger airbags



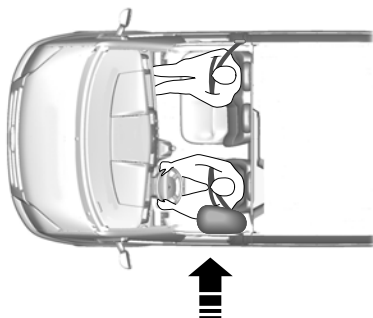
E68581

The driver and front passenger airbags will deploy during significant frontal collisions or collisions that are up to 30 degrees from the left or the right. The airbags will inflate within a few thousandths of a second and deflate on contact with the occupants, thus cushioning forward body movement. During minor frontal collisions, overturns, rear collisions and side collisions, the driver and front passenger airbags will not deploy.



# Occupant protection

## Side airbags




E68905


Side airbags are fitted inside the seatback of the front seats. A label indicates that side airbags are fitted to your vehicle.

The side airbags will deploy during significant lateral collisions. Only the airbag on the side affected by the collision will deploy. The airbags will inflate within a few thousandths of a second and deflate on contact with the occupants, thus providing protection for the head and rib areas. During minor lateral collisions, overturns, front collisions and rear collisions, the side airbags will not deploy.


## Seat belts


### WARNINGS


 Wear a seat belt and keep sufficient distance between yourself and the steering wheel. Only when you use the seat belt properly, can it hold you in a position to achieve its optimum effect. See **Sitting in the correct position** (page 74).

 Use a seat belt for only one person.

 Use the correct buckle for each seat belt.

 Do not use a seat belt that is slack or twisted.

 Do not wear thick clothing. The seat belt must fit tightly around your body to achieve its optimum effect.

 Position the shoulder strap of the seat belt over the centre of your shoulder and position the lap strap tightly across your hips.

Seat belt pretensioners have a lower deployment threshold than the airbags. During minor collisions, it is possible that only the seat belt pretensioner will deploy.

# Occupant protection

---

## FASTENING THE SEAT BELTS



E68584



E68585



E68586

### WARNING



Insert the tongue into the buckle until you hear a distinct click. You have not fastened the seat belt properly if you do not hear a click.

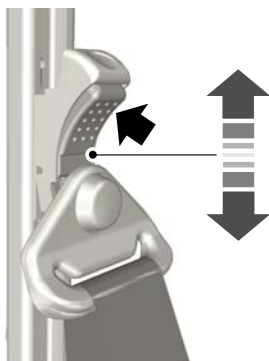
Pull the seat belt out steadily. It may lock if you pull it sharply or if the vehicle is on a slope.

Press the red button on the buckle to release the seat belt. Let it retract completely and smoothly.

# Occupant protection

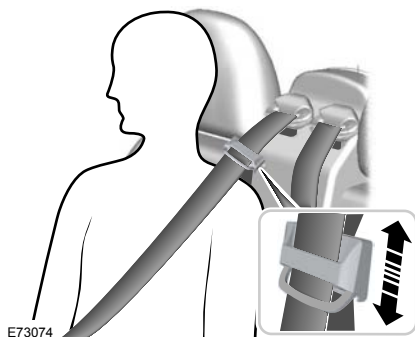
## SEAT BELT HEIGHT ADJUSTMENT

### Front seat belt




E68901

### Rear seat belt

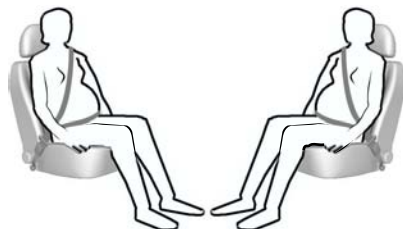


E73074

#### WARNING


 Make sure that the seat belt runs smoothly through the guide.

## USING SEAT BELTS DURING PREGNANCY



E68587


#### WARNING

 Position the seat belt correctly for your safety and that of your unborn child. Do not use only the lap strap or the shoulder strap.

Position the lap strap comfortably across your hips and low beneath your pregnant abdomen. Position the shoulder strap between your breasts, above and to the side of your pregnant abdomen.

## DISABLING THE PASSENGER AIRBAG

#### WARNING

 To avoid the risk of death or serious injury, **NEVER** use a rearward facing child restraint in the front, unless the airbag is **OFF**.

# Occupant protection

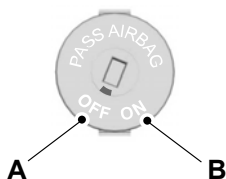


E71313

The key switch and the airbag deactivation lamp are located in the instrument panel.

If the airbag warning lamp in the instrument cluster illuminates intermittently, it means that there is a malfunction. Remove the child restraint from the front. Have the system checked by a suitably trained technician for your own safety. See **Warning lamps and indicators** (page 52).

## Disabling the passenger airbag



E71312

To use a child restraint in the front, make sure that the key switch is turned to position **A**.

When you switch the ignition on, check that the passenger airbag deactivation warning lamp comes on. See **Quick start** (page 6).

## Enabling the passenger airbag

### WARNING



For the adult restraint system to perform as intended, make sure that the airbag is **ON**.


After removing the child restraint from the front, make sure that you turn the key switch to position **B**.

# Keys and remote controls

---

## GENERAL INFORMATION ON RADIO FREQUENCIES

### CAUTION

 The radio frequency used by your remote control can also be used by other short distance radio transmissions (e.g. amateur radios, medical equipment, wireless headphones, remote controls and alarm systems). If the frequencies are jammed, you will not be able to use your remote control. You can lock and unlock the doors with the key.

**Note:** *You could unlock the doors if you press the buttons on the remote control unintentionally.*

The operating range between your remote control and your vehicle varies depending on the environment.

## PROGRAMMING THE REMOTE CONTROL

You can programme a maximum of eight remote controls to use with your vehicle (including any supplied with your vehicle). Ask your dealer for instructions.

# Locks

## LOCKING AND UNLOCKING

### Double locking

#### WARNING

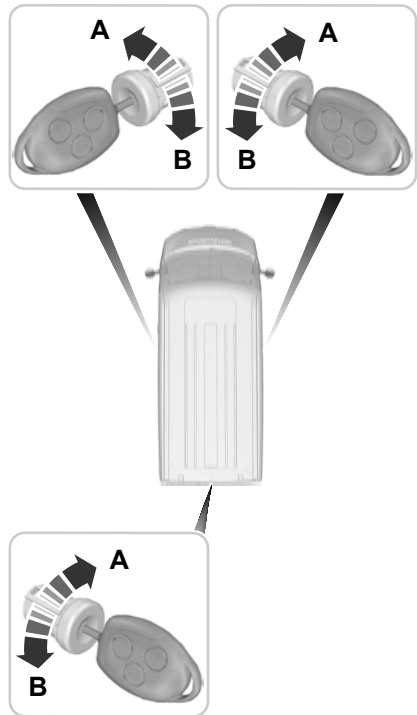


Do not activate double locking when persons or animals are inside the vehicle. You will not be able to unlock the doors from the inside if you have double locked them.

Double locking is a theft protection feature that prevents someone from opening the doors from the inside. You can only double lock the doors if they are all closed. If you try to double lock the doors when a door is still open, you may hear a short tone from the horn and the locks will cycle. The door locks will return to their previous state.

If you have double locked the doors successfully, the direction indicators will flash **twice**. If the hazard warning flashers are on, the direction indicators will give two long flashes.

### Locking and unlocking the doors with the key



E71294

A    Unlock

B    Lock

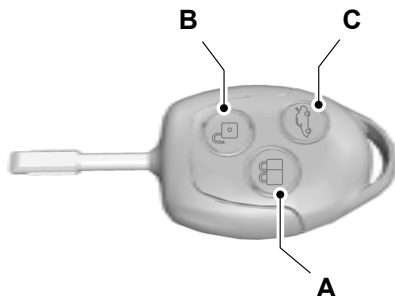
### Double locking the doors with the key

Turn the key to the unlock position and then to the lock position to double lock the doors.



# Locks

## Locking and unlocking the doors with the remote control



E71293

- A Lock
- B Unlock
- C Cargo unlock

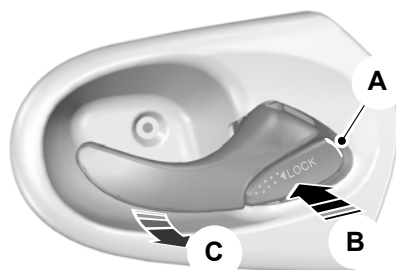
Press the appropriate button **once**.

## Double locking the doors with the remote control

Press the lock button **twice**.

## Locking and unlocking the doors with the handles

### Front doors



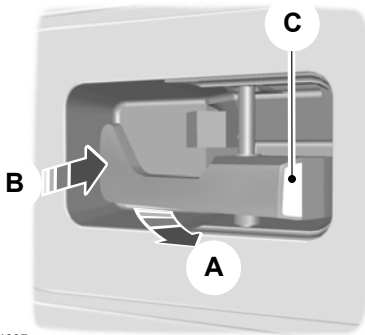
E71286

- A White mark
- B Lock
- C Unlock

If you see the white mark, the door is locked.

# Locks

## Rear doors



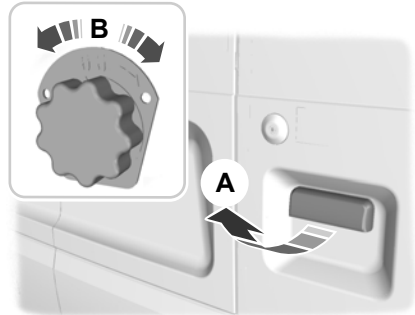
E71287

- A Unlock or open
- B Lock
- C White mark

If you see the white mark, the door is locked.

- C Lock
- D Unlock

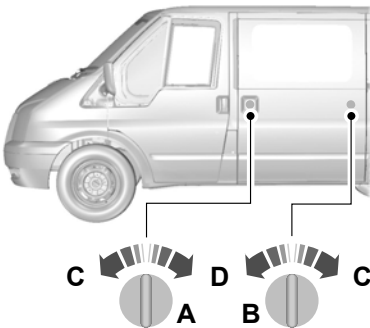
## Double rear doors



E71290

- A Outside
- B Inside

## Sliding door



E71289

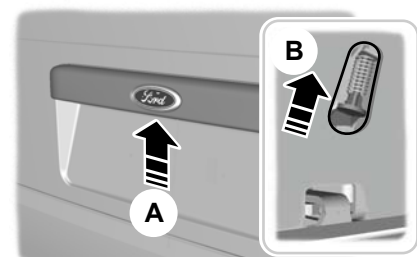
- A Van and Kombi
- B Bus



E71291

# Locks

## Tailgate



E71292

- A Outside
- B Inside

Access the release button through the aperture at the bottom of the tailgate.

## Slam locking

**Note:** Do not leave your keys in the vehicle.

**Note:** You may hear a short tone from the horn if you try to lock the doors when a door is still open.

Slam locking allows you to lock a door with the key or remote control with the door open. The door will be locked when it is closed.

## Automatic locking

The doors will lock automatically when you exceed 8 km/h (5 mph). Unlock the doors with the interior handle.

## Automatic re-locking

The doors will re-lock automatically if you do not open a door within 45 seconds of unlocking the doors with the remote control. The door locks and the alarm will return to their previous state.

## One-stage unlocking

**Note:** The direction indicators will flash once when you unlock the doors.

When enabled, the following features are available:

You will unlock all of the doors when you:

- pull either interior handle (except if you have double locked the doors).
- turn the key in either of the door locks.
- press the unlock button on the remote control **once**.
- press the cargo unlock button on the remote control **once** (Chassis Cab).

You will unlock the rear doors or tailgate and the sliding door if you press the cargo unlock button **once**.

## Two-stage unlocking

**Note:** The direction indicators will flash once when you unlock the doors.

# Locks

---

You will unlock the front doors when you:

- pull either interior handle (except if you have double locked the doors).
- turn the key in either of the door locks.
- press the unlock button on the remote control **once** (Van, Bus and Kombi).

You will unlock the driver side door when you:

- press the unlock button on the remote control **once** (Chassis Cab).

You will unlock the front doors, rear doors and loadspace doors when you:

- turn the key in either of the front door locks **twice** within three seconds.
- press the unlock button on the remote control **twice** within three seconds.

On Van vehicles, you will unlock the rear doors or tailgate and the sliding door if you press the cargo unlock button **once**.

On Chassis Cab vehicles, you will unlock the passenger side door if you press the cargo unlock button **once**.

## Zone re-locking

The locks on Van, Bus and Kombi are split into two zones, cabin and cargo. Chassis Cab has only the cabin zone.

- Exit the vehicle and press the lock button.
- Press the unlock button or the cargo unlock button once to open the respective zone.

If you now open a door within the unlocked zone, the other doors in that zone will automatically lock.

## Configurable unlocking

Configurable unlocking is set at the time of vehicle purchase and allows you to select which doors unlock when the unlock and cargo unlock buttons on the remote control are pressed once or twice. If you have this feature deactivated, it can not be reactivated. Ask your dealer for further information.

# Engine immobiliser

---

## PRINCIPLE OF OPERATION

The engine immobiliser is a theft protection system that prevents someone from starting the engine with an incorrectly coded key.

## CODED KEYS

**Note:** *Do not shield your keys with metal objects. This may prevent the receiver from recognising your key as a valid one.*

**Note:** *Have all of your remaining keys erased and recoded if you lose a key. Ask your dealer for further information. Have replacement keys recoded together with your existing keys.*

If you lose a key, you can obtain a replacement from your Ford Dealer. If possible, provide them with the key number from the tag provided with the original keys. You can also obtain additional keys from your Ford Dealer.

## ARMING THE ENGINE IMMOBILISER

The engine immobiliser is armed automatically a short time after you have switched the ignition off.

The indicator in the instrument cluster will flash to confirm that the system is operating.

## DISARMING THE ENGINE IMMOBILISER

The engine immobiliser is disarmed automatically when you switch the ignition on with a correctly coded key.

The indicator in the instrument cluster will come on for approximately three seconds and then go out. If the indicator stays on for one minute or flashes for approximately one minute and then repeatedly at irregular intervals, your key has not been recognised. Remove the key and try again.

If you attempt to start the engine with an incorrectly coded key, you will need to wait for approximately 20 seconds before attempting to start the engine again with a correctly coded key.

If you are unable to start the engine with a correctly coded key, this indicates a malfunction. Have the immobiliser checked immediately.

# Alarm

## PRINCIPLE OF OPERATION

### All vehicles

If the alarm is triggered, the alarm horns will sound for 30 seconds and the hazard warning flashers will flash for five minutes. If the cause of the alarm being triggered has been removed, the alarm will return to its previous armed state. If the cause has not been removed, the alarm horns will sound again.

### Vehicles with a perimeter alarm

The perimeter alarm is a deterrent against unauthorised access to your vehicle through the doors and the bonnet. It also protects the audio unit and the trailer (if a Ford trailer-tow kit is fitted). You can fully arm or partially arm the alarm. Trailer detection is disabled when you have partially armed the alarm.

The perimeter alarm will be triggered if someone:

- opens a door.
- opens the bonnet.
- attempts to start the engine with an incorrectly coded key.
- removes the audio unit.
- disconnects the trailer electrical connector (if it was connected at the time the alarm was armed).

### Vehicles with a category one alarm



E71401

The category one alarm is additional to the perimeter alarm. Ultrasonic interior motion detection protects your vehicle against unauthorised access to the passenger compartment and the cargo area. You can fully arm or partially arm the alarm. Trailer detection and interior motion detection are disabled when you have partially armed the alarm. Interior motion detection is not activated if you arm the alarm when a door is open.

The category one alarm will only function correctly if all windows are fully closed. Keep the area in front of the motion sensors free from obstruction.

The category one alarm is triggered if:

- motion is detected in the passenger compartment or cargo area.
- someone attempts to access the cargo area through the rear door or tailgate window.



# Alarm

---

## ARMING THE ALARM

### Perimeter alarm

The alarm is armed 20 seconds after you have locked the doors. This delay allows you to close any doors or the bonnet without triggering the alarm.

### Partial arming

Lock the doors with the key. See **Locking and unlocking** (page 20).

### Full arming

Lock the doors with the remote control or double lock the doors with the key or the remote control. See **Locking and unlocking** (page 20).

### Category one alarm

#### Partial arming

Lock the doors with the key. See **Locking and unlocking** (page 20).

#### Full arming

**Note:** *Do not fully arm the alarm if someone is inside the vehicle.*

Lock the doors with the remote control or double lock the doors with the key or the remote control. See **Locking and unlocking** (page 20).

## DISARMING THE ALARM

### Perimeter alarm

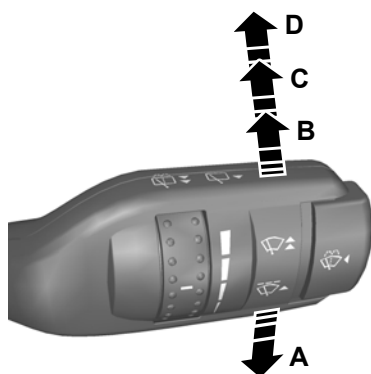
Disarm and silence the alarm by unlocking the doors with the key, switching the ignition on with a correctly coded key or unlocking the doors with the remote control. See **Locking and unlocking** (page 20).

### Category one alarm

Disarm and silence the alarm by unlocking the doors with the key in the driver's door and switching the ignition on with a correctly coded key within 12 seconds or unlocking the doors with the remote control. See **Locking and unlocking** (page 20).

# Wipers and washers

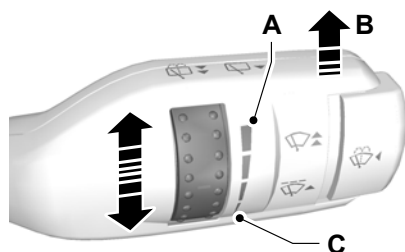
## WINDSCREEN WIPERS



E71012

- A Single wipe
- B Intermittent wipe
- C Normal wipe
- D High speed wipe

## Intermittent wipe

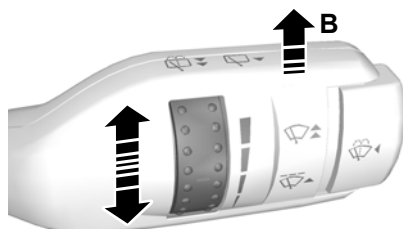


E71013

- A Long wipe interval
- B Intermittent wipe
- C Short wipe interval

## AUTOWIPERS

### Autowipers



E71014

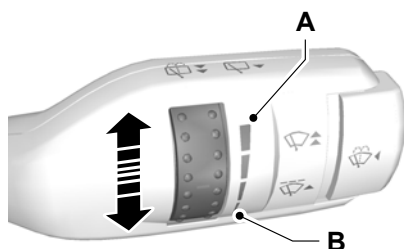
### CAUTIONS

- ! Do not switch autowipers on in dry weather conditions. The rain sensor is very sensitive and the wipers may operate if dirt, mist or flies hit the windscreen.
- ! Replace the wiper blades as soon as they begin to leave bands of water and smears. If you do not replace them, the rain sensor will continue to detect water on the windscreen and the wipers will operate, even though the majority of the windscreen is dry.
- ! Fully defrost the windscreen in icy conditions before you switch autowipers on.
- ! Switch autowipers off before you enter a car wash.

# Wipers and washers

If you switch autowipers on after you have switched the ignition on, the wipers will cycle once regardless of whether the windscreen is wet or dry. The rain sensor will then continuously measure the amount of water on the windscreen and adjust the speed of the wipers automatically.

If you switch the ignition on with autowipers already switched on, the wipers will not cycle until the rain sensor detects water on the windscreen.



E71015

- A Low sensitivity
- B High sensitivity


Adjust the sensitivity of the rain sensor using the rotary control. If you set the control to low sensitivity, the wipers will operate when the sensor detects a lot of water on the windscreen. If you set the control to high sensitivity, the wipers will operate if the sensor detects a small amount of water on the windscreen.

## WINDSCREEN WASHERS



E71016

### WARNING

 Do not operate the windscreen washers for more than 10 seconds or when the reservoir is empty.

## REAR WINDOW WIPER AND WASHERS

### Intermittent wipe



E71017

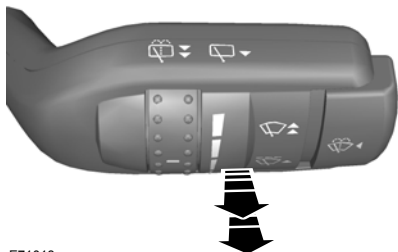
The rear window wiper will follow the windscreen wiper interval.

# Wipers and washers

## Reverse gear wipe


The rear window wiper will operate automatically when you select reverse gear if the wiper lever is in position **A**, **B**, **C** or **D**.

## Rear window washer

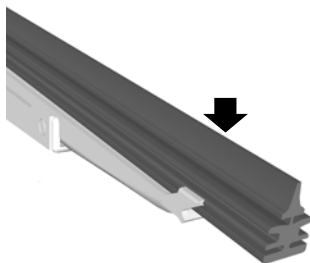


E71018

### WARNING

 Do not operate the rear window washer for more than 10 seconds or when the reservoir is empty.

## CHECKING THE WIPER BLADES

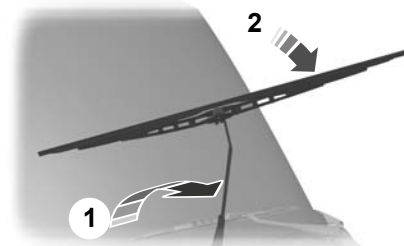


E66644

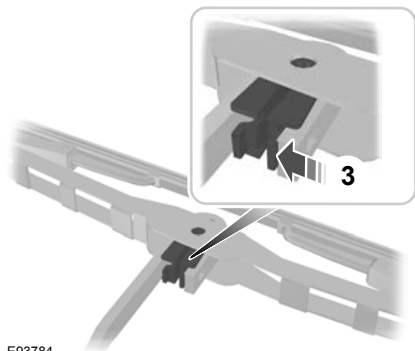
Run the tip of your fingers over the edge of the blade to check for roughness.

Clean the wiper blade lips with water applied with a soft sponge.

## CHANGING THE WIPER BLADES



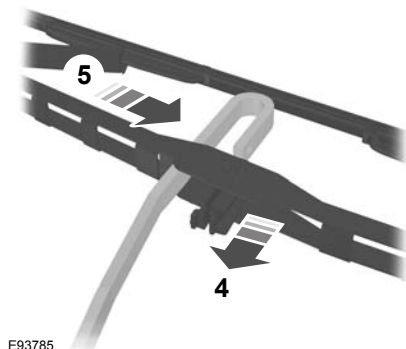
E93783



E93784

# Wipers and washers

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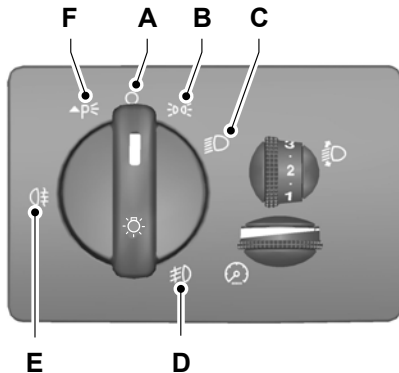


Install in the reverse order.

# Lighting

## LIGHTING CONTROL

### Lighting control positions



E71094

- A Off
- B Side and tail lamps
- C Headlamps
- D Front fog lamps
- E Rear fog lamps
- F Parking lamps

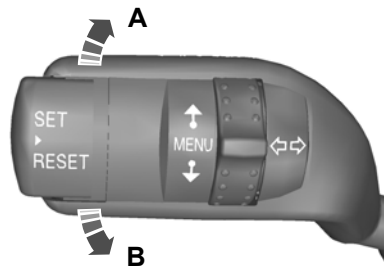
### Parking lamps

First, switch off the ignition.

### Both sides

Push the lighting control inwards and turn it to position **F**.

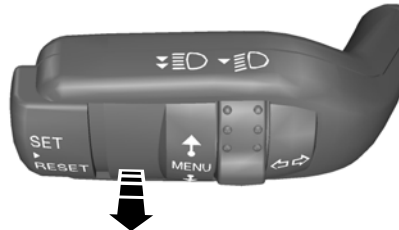
### Single side



E77368

- A Right-hand side
- B Left-hand side

### Main and dipped beam



E71095

Pull the lever fully towards the steering wheel to switch between main and dipped beam.

### Headlamp flasher

Pull the lever slightly towards the steering wheel.

# Lighting

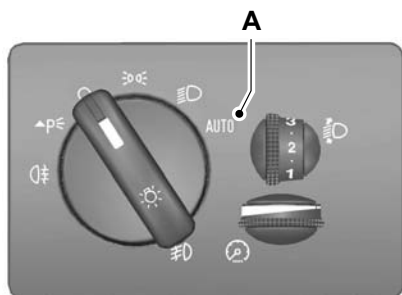
## Home safe lighting

Switch the ignition off and pull the direction indicator lever towards the steering wheel to switch the headlamps on. You will hear a short tone. The headlamps will go off automatically after 3 minutes with any door open, or 30 seconds after the last door has been closed.

With all doors closed, but within the 30 second delay, opening any door will result in the 3 minute timer starting again.

The home safe lights can be cancelled by either pulling the direction indicator lever towards the steering wheel again or by turning the ignition switch ON.

## AUTOLAMPS

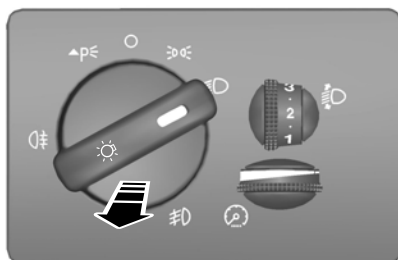


E73840

**Note:** If you have switched autolamps on, you can only switch the main beam on when autolamps has switched the headlamps on.

The headlamps will come on and go off automatically depending on the ambient light.

## FRONT FOG LAMPS



E71096

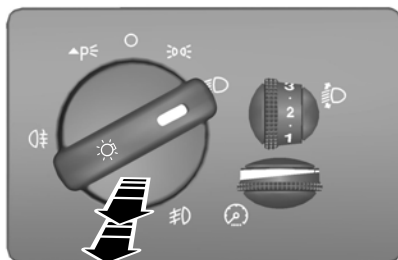
### WARNING



Only use the front fog lamps when visibility is considerably restricted by fog, snow or rain.

**Note:** You cannot switch the front fog lamps on if you have switched autolamps on.

## REAR FOG LAMPS



E71097

# Lighting

## WARNING

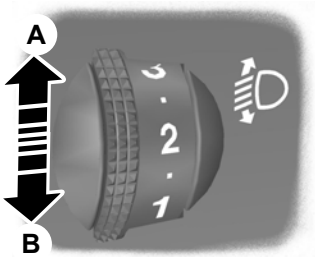


Do not use the rear fog lamps when it is raining or snowing and visibility is more than 50 metres.

**Note:** You cannot switch the rear fog lamps on if you have switched autolamps on.

## HEADLAMP LEVELLING

You can adjust the level of the headlamp beams according to the vehicle load.



E74611

- A Raise beams
- B Lower beams

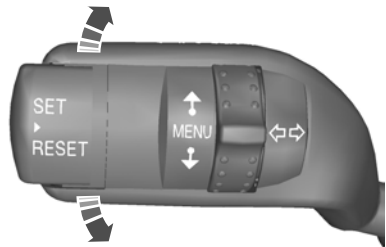
Set the headlamp levelling control to zero when your vehicle is unloaded. Set it to provide illumination between 35 and 100 metres when your vehicle is partially or fully loaded.

## HAZARD WARNING FLASHERS



For item location: See **Quick start** (page 6).

## DIRECTION INDICATORS



E71098

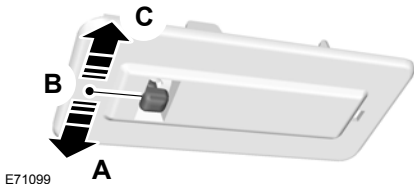
**Note:** Tap the lever up or down to make the direction indicators flash only three times.



# Lighting

## INTERIOR LAMPS

### Courtesy lamps - Vehicles without interior sensors



- A On
- B Off
- C Door contact

Courtesy lamps that are not fitted with a switch will only come on when the switch on the front courtesy lamp is set to position **C** and you open a door.

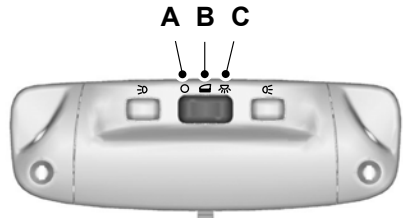
### Vehicles with double locking

If you set the switch to position **C**, the courtesy lamps will stay on for a short time after you close the doors. They will go off immediately when you switch the ignition on.

When you switch the ignition off, the courtesy lamps will come on. They will go off automatically after a short time.

If you leave a door open, the courtesy lamps will go off automatically after 30 minutes. To switch them back on, switch the ignition on for a short time.

### Courtesy lamp - Vehicles with interior sensors



- A Off
- B Door contact
- C On

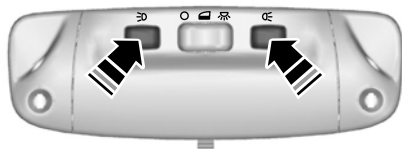
If you set the switch to position **B**, the courtesy lamp will come on when you unlock or open a door or the tailgate. If you leave a door open, it will go off automatically after a short time to prevent the vehicle battery from discharging. To switch it back on, switch the ignition on for a short time.

The courtesy lamp will also come on when you switch the ignition off. It will go off automatically after a short time or when you start or restart the engine.

If you set the switch to position **C**, the courtesy lamp will come on. It will go off automatically after a short time to prevent the vehicle battery from discharging. To switch it back on, switch the ignition on for a short time.

# Lighting

## Reading lamps



E71946

If you switch the ignition off, the reading lamps will go off automatically after a short time to prevent the vehicle battery from discharging. To switch them back on, switch the ignition on for a short time.

## STEPWELL LAMPS

The stepwell lamps will come on and go off automatically when you open and close the doors. If you unlock the doors with the remote control, they will come on. They will go off automatically after a short time.

## CHANGING A BULB

### WARNINGS



Switch the lights and the ignition off.



Let the bulb cool down before removing it.

### CAUTIONS



Do not touch the glass of the bulb.

### CAUTIONS



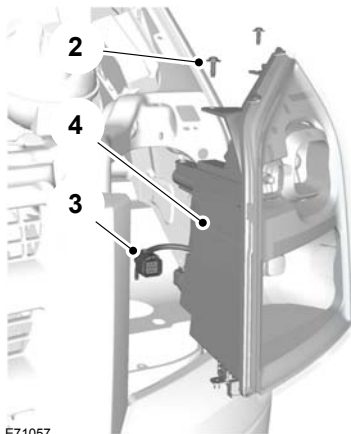
Only fit bulbs of the correct specification. See **Bulb specification chart** (page 44).

**Note:** We recommend that you ask your dealer to change the bulbs if your vehicle is fitted with air conditioning. Some bulbs are difficult to access.

**Note:** You will need to remove the headlamp to change the headlamp, side lamp or front direction indicator bulbs.

**Note:** The following instructions describe how to remove the bulbs. Fit replacements in the reverse order unless otherwise stated.

## Removing a headlamp



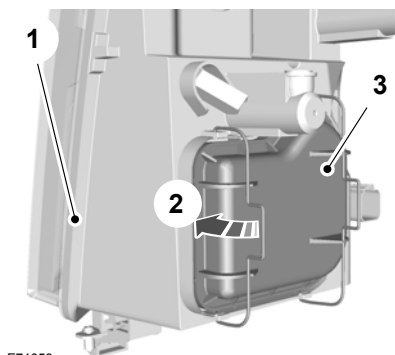
E71057

1. Open the bonnet. See **Maintenance** (page 129).
2. Remove the screws.

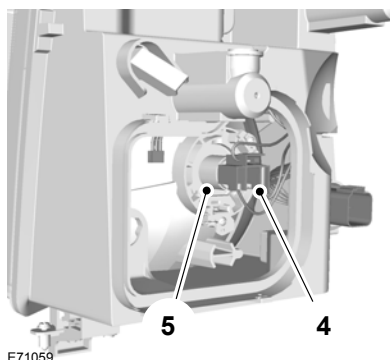
# Lighting

3. Disconnect the electrical connector.
4. Remove the headlamp.

## Headlamp main and dipped beam



E71058

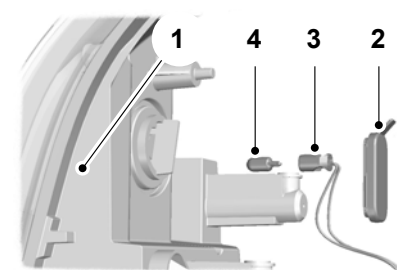


E71059

1. Remove the headlamp.
2. Release the clips.
3. Remove the cover.

4. Disconnect the electrical connector.
5. Release the clip and remove the bulb.

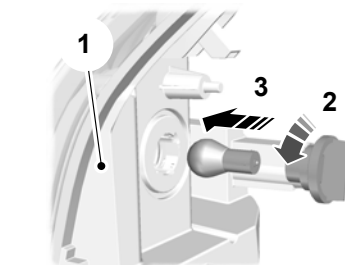
## Side lamps



E71060

1. Remove the headlamp.
2. Remove the cover.
3. Remove the bulb and the bulb holder.
4. Remove the bulb.

## Front direction indicators

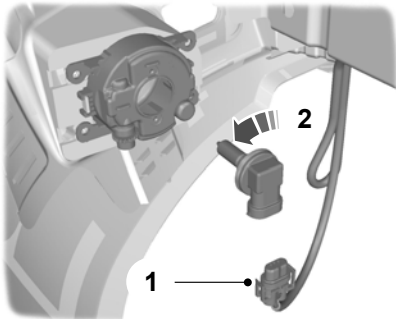


E71061

# Lighting

1. Remove the headlamp.
2. Turn the bulb holder anti-clockwise and remove it.
3. Gently press the bulb into the bulb holder, turn it anti-clockwise and remove it.

## Front fog lamps

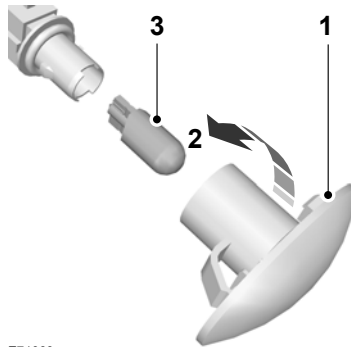


E71062

**Note:** You cannot separate the bulb from the bulb holder.

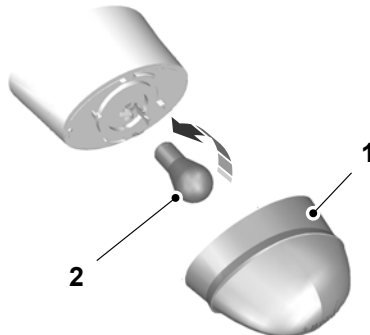
1. Disconnect the electrical connector.
2. Turn the bulb holder anti-clockwise and remove it.

## Side repeaters



E71063

1. Carefully remove the side repeater.
2. Hold the bulb holder, turn the housing anti-clockwise and remove it.
3. Remove the bulb.



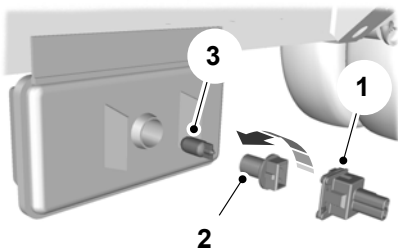
E71064

1. Turn the lens clockwise and remove it.
2. Gently press the bulb into the bulb holder, turn it anti-clockwise and remove it.

# Lighting

## Side marker lamps

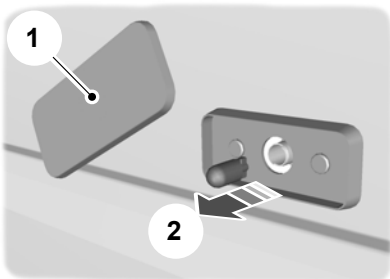
**Chassis cab and Flatbed truck with extended frame**



E75022

1. Disconnect the electrical connector.
2. Turn the bulb holder anti-clockwise and remove it.
3. Remove the bulb.

## Jumbo van

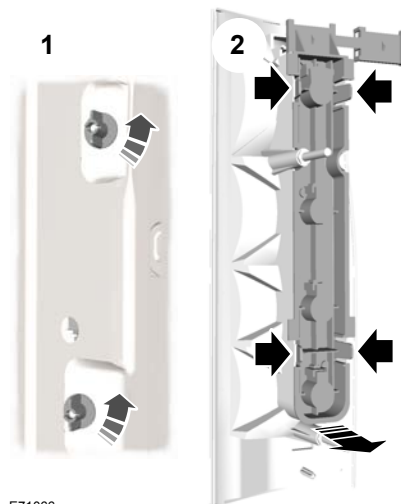


E71065

1. Turn the lens in either direction and remove it.
2. Remove the bulb.

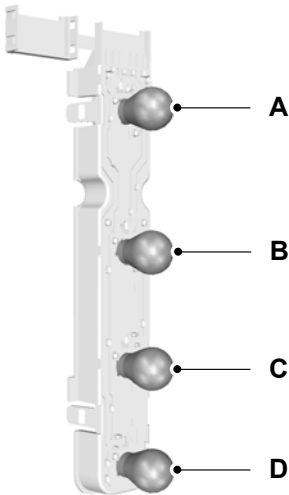
## Rear lamps

**Bus and Kombi**



E71066

# Lighting

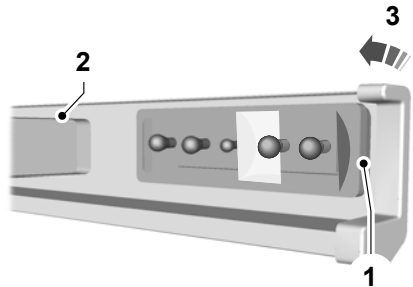


E71067

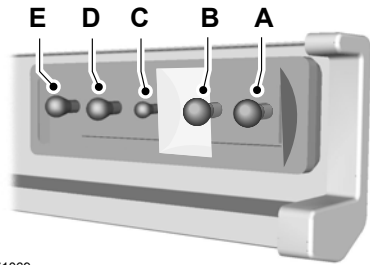
- A Tail and brake lamp
- B Direction indicator
- C Reversing lamp
- D Fog lamp

1. Remove the wing nuts.
2. Remove the rear lamp and unclip the bulb holder.
3. Gently press the bulb into the bulb holder, turn it anti-clockwise and remove it.

## Chassis cab and Flatbed truck



E71068



E71069

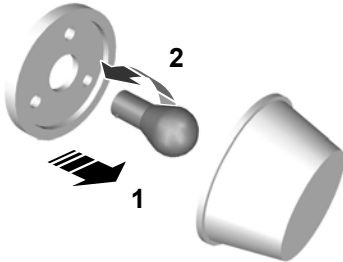
- A Direction indicator
- B Brake lamp
- C Tail lamp
- D Reversing lamp
- E Fog lamp

1. Release the retaining clip and move the plastic frame to the side.
2. Remove the lens.
3. Gently press the bulb into the bulb holder, turn it anti-clockwise and remove it.

# Lighting

## Rear side lamps

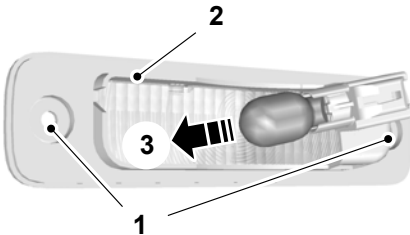
### Flatbed truck



E71072

1. Carefully prise the lens from the holder.
2. Gently press the bulb into the bulb holder, turn it anti-clockwise and remove it.

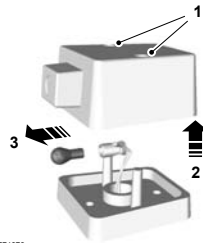
## Central brake lamp



E71071

1. Remove the screws.
2. Remove the lamp.
3. Remove the bulb.

## Roof position lamps

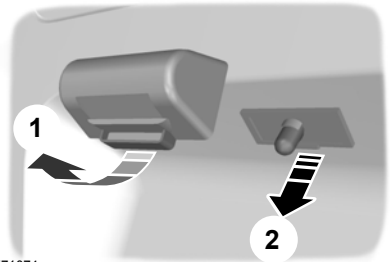


E71073

1. Remove the screws.
2. Remove the lens.
3. Gently press the bulb into the bulb holder, turn it anti-clockwise and remove it.

## Number plate lamp

### Vehicles with double rear doors

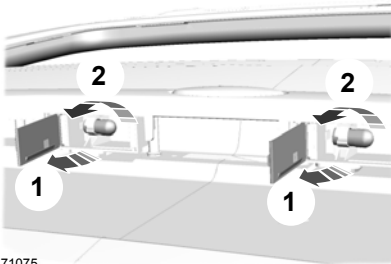


E71074

1. Remove the lens.
2. Remove the bulb.

# Lighting

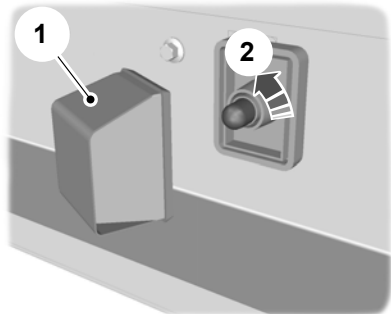
## Vehicles with a tailgate



E71075

1. Open the lens.
2. Gently press the bulb into the bulb holder, turn it anti-clockwise and remove it.

## Flatbed truck

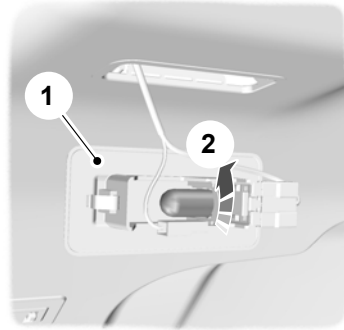


E71076

1. Remove the lens.
2. Gently press the bulb into the bulb holder, turn it anti-clockwise and remove it.

## Front interior lamps

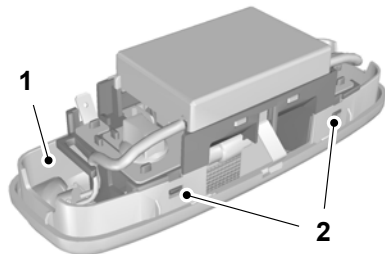
### Vehicles without interior sensors



E71077

1. Carefully prise out the lamp.
2. Gently press the bulb into the bulb holder, turn it anti-clockwise and remove it.

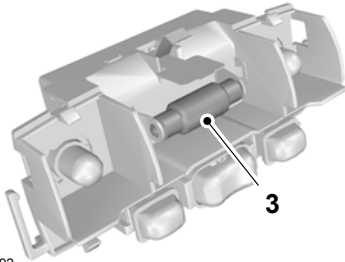
### Vehicles with interior sensors



E73091



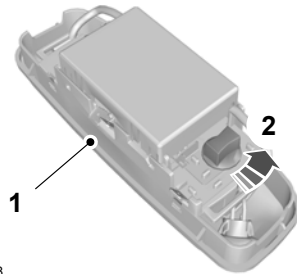
# Lighting



E73092

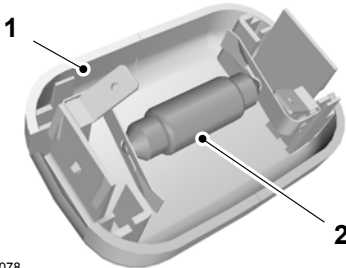
1. Carefully prise out the lamp.
2. Remove the lens.
3. Remove the bulb.

## Front reading lamps



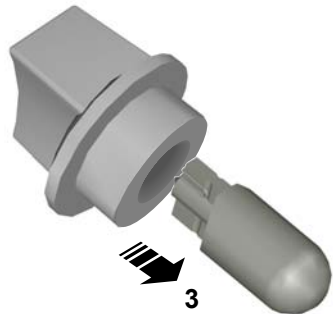
E73938

## Rear interior lamps



E71078

1. Carefully prise out the lamp.
2. Remove the bulb.



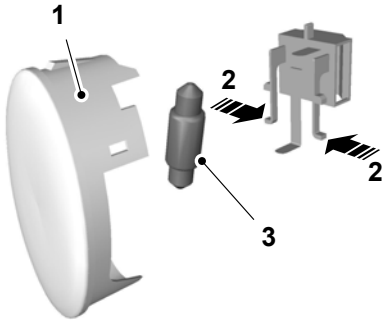
E73939

1. Carefully prise out the lamp.
2. Turn the bulb holder anti-clockwise and remove it.
3. Remove the bulb.

# Lighting

## Stepwell lamps

1. Carefully prise out the lamp.
2. Remove the bulb holder.
3. Remove the bulb.



E71080

## BULB SPECIFICATION CHART

Bulb	Watts (Specification)
Headlamp main and dipped beam	55/60
Side lamp	5
Front direction indicator	21
Front fog lamp	55 (H11)
Side repeater	5
Side repeater	21/5
Side marker lamp	3
Tail and brake lamp	21/5
Tail lamp - Chassis Cab and Flatbed Truck	10
Brake lamp - Chassis Cab and Flatbed Truck	21
Rear direction indicator	21
Reversing lamp	21
Rear fog lamp	21

# Lighting


---

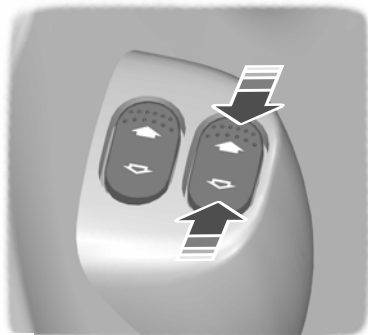
Bulb	Watts (Specification)
Rear side lamp - Flatbed Truck	4
Central brake lamp	16
Roof marker lamp	4
Number plate lamp - Vehicles with double rear doors	5
Number plate lamp - Except vehicles with double rear doors	10
Interior lamp	10
Reading lamp	10
Stepwell lamp	10

# Windows and mirrors

## ELECTRIC WINDOWS

### WARNING

 Do not operate the electric windows unless they are free from obstruction.

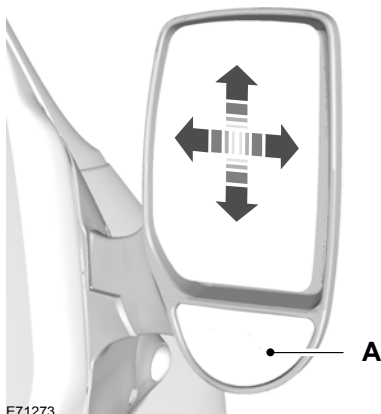


Switch on the ignition to operate the electric windows.

### Opening the driver window automatically


Press the switch to the second action point and release it. Press it again to stop the window.

## EXTERIOR MIRRORS



A Convex mirror

### WARNING

 Do not over estimate the distance of the objects that you see in the convex mirrors. Objects seen in convex mirrors will appear smaller and further away than they actually are.

The mirrors increase your rearward field of vision to reduce the so-called blind spot at the rear quarter of your vehicle.

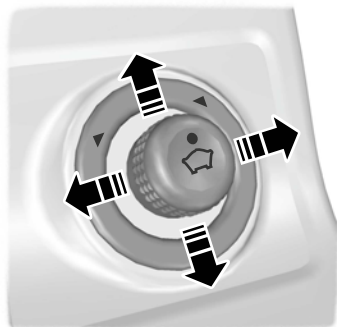
# Windows and mirrors

---



E71274

Make sure that you fully engage the mirror in its support when returning it to its original position.

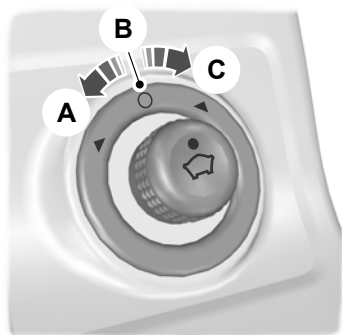


E71281

The electric exterior mirrors are fitted with a heating element that will defrost or demist the mirror glass. See **Climate control** (page 65).

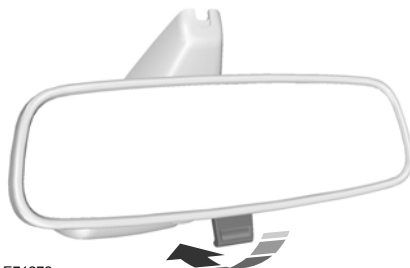
## ELECTRIC EXTERIOR MIRRORS

## INTERIOR MIRROR



E71280

- A Left-hand mirror
- B Off
- C Right-hand mirror



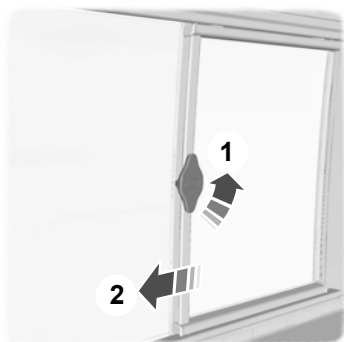
E71272

Dip the mirror to reduce glare when driving at night.

# Windows and mirrors

---

## SLIDING WINDOWS



E66497

## REAR QUARTER WINDOWS



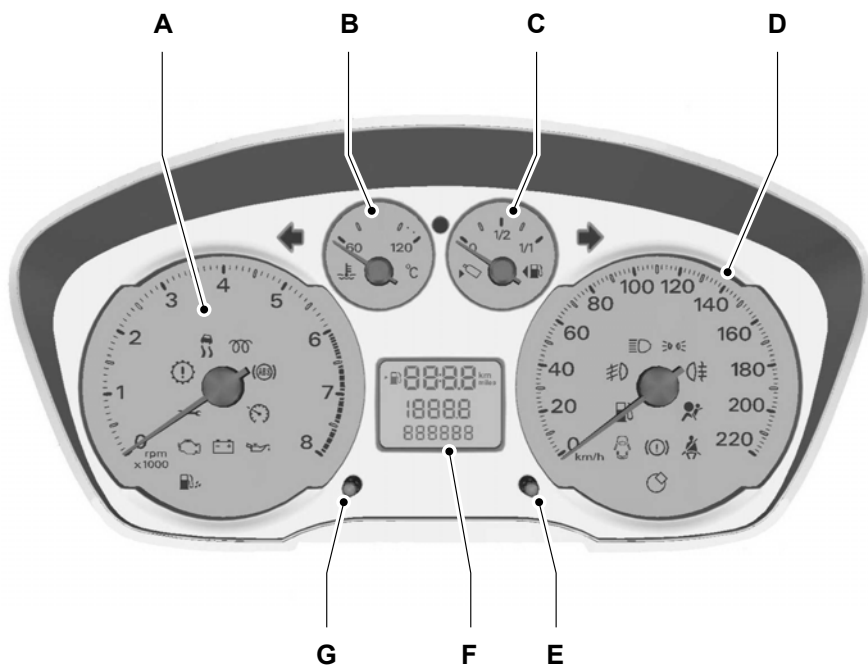
E66498

Pull the lever outwards to open the window. Press the lever in the middle to engage it in its catch. Pull the lever in the middle to close the window. Push it backwards until it engages in its catch.

# Instruments

## GAUGES

### Low series instrument cluster



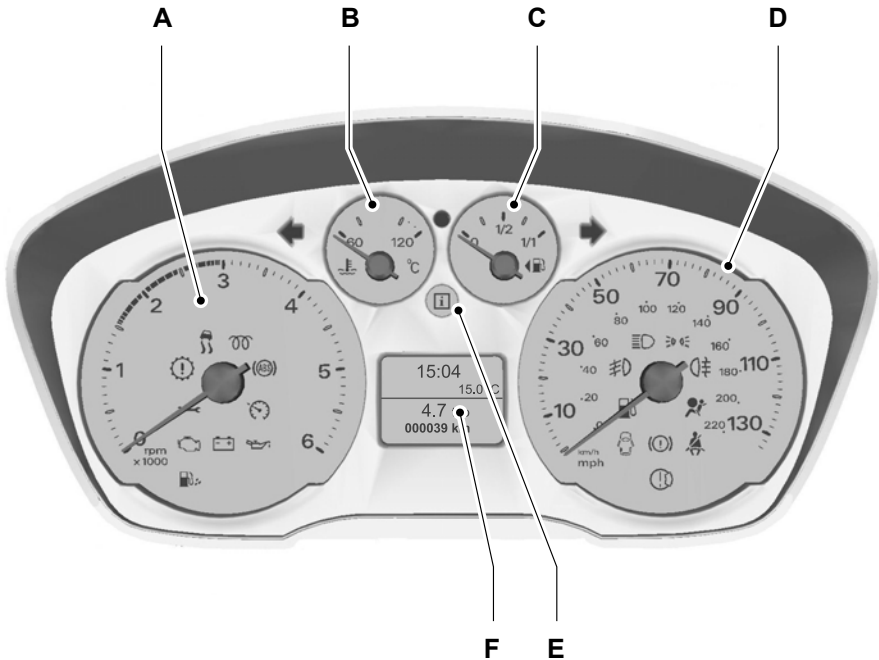
E71334

- A Tachometer
- B Engine coolant temperature gauge
- C Fuel gauge
- D Speedometer
- E Tripmeter reset button

# Instruments

- F Odometer, tripmeter, clock, distance to empty and door open warning indicator
- G Clock set button

## High series instrument cluster



E73043

- A Tachometer
- B Engine coolant temperature gauge
- C Fuel gauge
- D Speedometer



# Instruments

- E Message warning lamp
- F Message centre. See **General information** (page 57).

## Engine coolant temperature gauge

Shows the temperature of the engine coolant. At normal operating temperature, the needle will remain in the centre section.

### CAUTION

⚠ Do not restart the engine until the cause of overheating has been resolved.

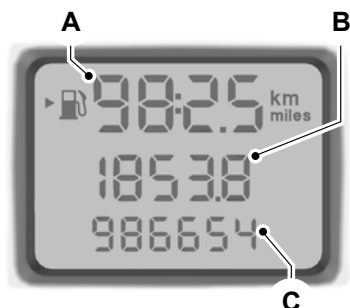
If the needle moves towards 120°C, the engine is overheating. Stop the engine, switch the ignition off and determine the cause **once the engine has cooled down**. See **Engine coolant check** (page 137). See **Reduced engine performance** (page 112).

## Fuel gauge

The arrow adjacent to the fuel pump symbol tells you on which side of your vehicle the fuel filler cap is located.

## Odometer, tripmeter and clock

### Low series instrument cluster



E71335

- A Clock and distance to empty
- B Tripmeter
- C Odometer

The tripmeter will register the distance of individual journeys. Press the reset button to reset the tripmeter.

# Instruments

---

## WARNING LAMPS AND INDICATORS

### Low series instrument cluster

The following warning lamps and indicators will come on briefly when you switch the ignition on to confirm that the system is operational:

- ABS
- Airbag
- Brake pad wear
- Brake system
- Cruise control
- Door open
- Engine
- Hill launch assist
- Ignition
- Low fuel level
- Oil pressure
- Engine
- Service interval
- Shift
- Stability control (ESP) and traction control
- Water-in-fuel

### High series instrument cluster

The following warning lamps and indicators will come on briefly when you switch the ignition on to confirm that the system is operational:

- ABS
- Airbag

- Brake pad wear
- Brake system
- Cruise control
- Engine
- Hill launch assist
- Ignition
- Low fuel level
- Message indicator
- Shift
- Stability control (ESP) and traction control
- Water-in-fuel

If a warning or indicator lamp does not illuminate when the ignition is switched on, this indicates a malfunction. Have the system checked by properly trained technician.

### ABS warning lamp



If it illuminates when driving, this indicates a malfunction. Have the system checked

by a properly trained technician. You will continue to have normal braking (without ABS) but have this checked as soon as possible.

### Airbag warning lamp



If it does not illuminate, if it stays on or illuminates intermittently or continuously

while driving, this indicates a malfunction. Have the system checked by a properly trained technician.

# Instruments

---

## Brake pad wear warning lamp



It will illuminate when the brake pads have worn down to a predetermined limit.

Have this checked by a properly trained technician as soon as possible.

## Brake system warning lamp

### WARNING



Reduce your speed gradually. Use your brakes with great care. Do not step on the brake pedal abruptly.



If it illuminates when you are driving, this indicates a malfunction in one of the brake circuits. Check the brake fluid level. See **Brake and clutch fluid check** (page 137).

### WARNING



Have this checked immediately.

If the brake system warning lamp illuminates with the ABS warning lamp, this indicates a malfunction. Stop your vehicle as soon as it is safe to do so and have this checked before continuing your journey.

## Cruise control indicator



It will illuminate when you have set a speed using the cruise control system. See

**Using cruise control** (page 106).

## Direction indicator



Flashes during operation. A sudden increase in the rate of flashing warns of a failed indicator bulb. See **Changing a bulb** (page 36).

## Door open warning lamp



It will illuminate when you switch the ignition on if you have not closed the doors, the bonnet or tailgate properly.

## Engine warning lamps

### Malfunction indicator lamp



### Powertrain warning lamp



### All vehicles

If either lamp illuminates when the engine is running, this indicates a fault. The engine will continue to run but it may have limited power. If it flashes when you are driving, **reduce the speed of your vehicle immediately**. If it continues to flash, avoid heavy acceleration or deceleration. Have the system checked by a properly trained technician immediately.

# Instruments

## WARNING



Have this checked immediately.

If **both** lamps illuminate together, **stop your vehicle as soon as it is safe to do so** (continued use may cause reduced power and cause the engine to stop). Turn the ignition off and attempt to restart the engine. If the engine restarts have the system checked by a properly trained technician immediately. If the engine does not restart the vehicle must be checked before continuing your journey.

### Front fog lamp indicator



It will illuminate when you switch the front fog lamps on.

### Glow plug indicator



See **Starting a diesel engine** (page 85).

### Headlamp indicator



It will illuminate when you switch the headlamp dipped beam or the side and tail lamps on.

### Hill launch assist indicator



While driving, it illuminates during activation of the system. After switching on the ignition, if it does not illuminate this indicates that the system has been disabled. Your dealer can re-enable it. During a malfunction, the system switches off and it will not illuminate while driving.

### Ignition warning lamp

#### All vehicles



If it illuminates when you are driving, this indicates a malfunction. Switch off all unnecessary electrical equipment. Have the system checked by a properly trained technician immediately.

### Low fuel level warning lamp



If it illuminates, refuel as soon as possible.

The arrow adjacent to the fuel pump symbol tells you on which side of your vehicle the fuel filler cap is located.

### Main beam indicator



It will illuminate when you switch the headlamp main beam on. It will flash when you use the headlamp flasher.

# Instruments

## Message indicator



It will illuminate when a new message is stored in the information display. See

**Information messages** (page 59).

## Oil pressure warning lamp

### CAUTION



Do not resume your journey if the oil pressure warning lamp illuminates despite the oil level being correct. Have the system checked by a properly trained technician immediately.



If the lamp stays on after starting or illuminates during a journey, this indicates a malfunction. Stop your vehicle as soon as it is safe to do so and switch the engine off. Check the engine oil level. See **Engine oil check** (page 136).

## Rear fog lamp indicator



It will illuminate when you switch the rear fog lamps on.

## Service interval indicator

### Vehicles with a diesel engine



It will illuminate when a service is due or there is excessive soot or sludge in the oil. Have the engine oil changed as soon as possible.

Your dealer will switch the service interval indicator lamp off for you after completing the service.

## Shift indicator



It will illuminate for a short period of time to inform you that shifting to a higher gear may give better fuel economy and lower CO2 emissions. It will not illuminate during periods of high acceleration, braking or when the clutch pedal is pressed.

## Soot overload warning lamp



It will illuminate when a regeneration is due. See **Diesel particulate filter (DPF)** (page 85).

### CAUTIONS



If it illuminates with the malfunction indicator lamp, it indicates an overload of soot. Have this checked by a properly trained technician as soon as possible.



If it illuminates with the powertrain warning lamp, your diesel particulate filter may need replacing. Have this checked by a properly trained technician immediately.

## Stability control (ESP) and traction control warning lamp

**Note:** If either the ESP system or traction control system malfunctions, the respective system will switch off automatically.

# Instruments

---



It will flash when either system is operating. If it does not flash or it comes on when you are driving, this indicates a malfunction. Have the system checked by a properly trained technician immediately.

If you switch ESP off, the warning lamp will come on. The lamp will go out when you switch the system back on or when you switch the ignition off.

## Water-in-fuel indicator

### Vehicles with a diesel engine



It will illuminate if there is excess water in the fuel filter. Drain off the water immediately. See **Draining the fuel filter water trap** (page 138).

## AUDIBLE WARNINGS AND INDICATORS

### Door open warning

The door open warning chime will sound if you switch the ignition on and you have not closed the doors, the bonnet or tailgate properly.

### Message centre

See **Personalised settings** (page 62).

# Information displays

## GENERAL INFORMATION

### WARNING

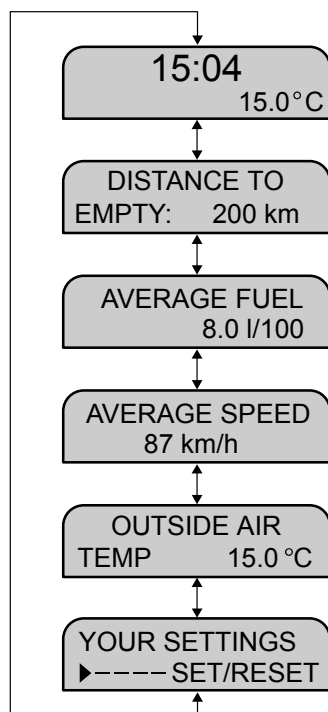
 For road safety reasons, set and reset the functions only when the vehicle is stationary.

Various functions can be programmed using the **message centre** and the multi-function lever on the steering column.

The message centre also provides warning messages about faults or system malfunctions. See **Information messages** (page 59).

## Main menu

### Overview of the main menu displays

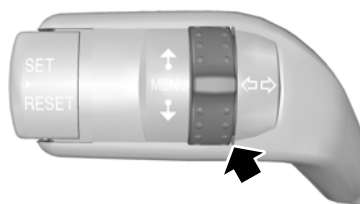


E73982

The various sub-menus are accessed from the main menu.

# Information displays

## Controls



E73265

Use the rotary control to scroll through the menu.

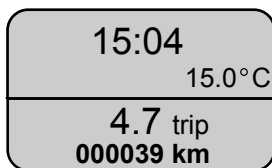


E73266

**Note:** If the chimes are activated, a short tone will sound each time the button is pressed.

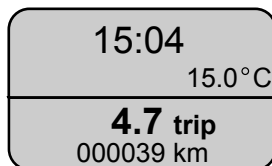
Press the **SET** and **RESET** button to select a sub-menu or the item that you want to adjust.

## Odometer



E73983

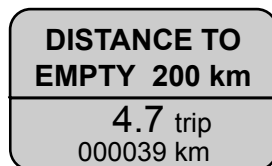
## Tripmeter



E73984

Press the **SET** and **RESET** button for at least 2 seconds to reset.

## Distance to empty

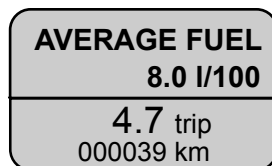


E73985

**Note:** Changes in driving pattern may cause the value to vary.

Indicates the approximate distance the vehicle will travel on the fuel remaining in the tank.

## Average fuel consumption



E73986

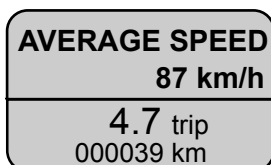
Indicates the average fuel consumption since the function was last reset.



# Information displays

Press the **SET** and **RESET** button to reset.

## Average speed

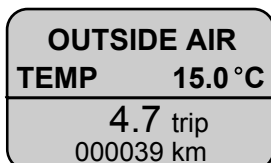


E73987

Indicates the average speed calculated over the last 1 000 kilometres (600 miles) or since the function was last reset.

Press the **SET** and **RESET** button to reset.

## Outside air temperature



E73988

### WARNING



Even if the temperature rises to above +4 °C there is no guarantee that the road is free of hazards caused by inclement weather.

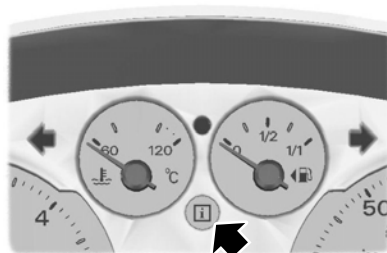
A warning chime will sound in the following conditions:

- +4 °C or lower: frost warning
- 0 °C or lower: danger of icy roads

## INFORMATION MESSAGES

### Warning messages

When certain warning message appear in the display, you must press the **SET** and **RESET** button to acknowledge them.



E73273

Some warning messages are supplemented by the message centre warning lamp above the display which comes on red or amber, depending on the severity of the problem.

If a warning message accompanied by the warning lamp is present, the warning lamp will remain on.

# Information displays

Messages	Warning lamp	Meaning
ENGINE MALFUNCTION	red	Malfunction of the engine or related systems. Stop the vehicle as soon as safely possible and switch off the engine immediately. Have the engine checked by properly trained technicians.
LOW OIL LEVEL	red	Low oil level. Stop the vehicle as soon as safely possible and switch off the engine immediately. Top up the engine oil. See <b>Engine oil check</b> (page 136).
WATER DETECTED IN FUEL	red	Water has been detected in the fuel. Have the fuel system checked by properly trained technicians.
LOW OUTSIDE TEMPERATURE	red	Outside temperature is below 0 °C
LOW OUTSIDE TEMPERATURE	amber	Outside temperature is below +4 °C
SERVICE OIL NOW	amber	Have your vehicle checked by properly trained technicians.
DOOR AJAR CLOSE DOOR	amber	Check all doors are fully closed.
DRIVER DOOR OPEN	amber	The driver's door is open.
PASSENGER DOOR OPEN	amber	The front passenger's door is open.
DRIVER SIDE REAR DOOR OPEN	amber	The rear door on the driver's side is open.
PASSENGER SIDE REAR DOOR OPEN	amber	The rear door on the passenger's side is open.
LUGGAGE COMP OPEN	amber	The cargo compartment or rear door is open.
BONNET OPEN	amber	The bonnet is open.

# Information displays

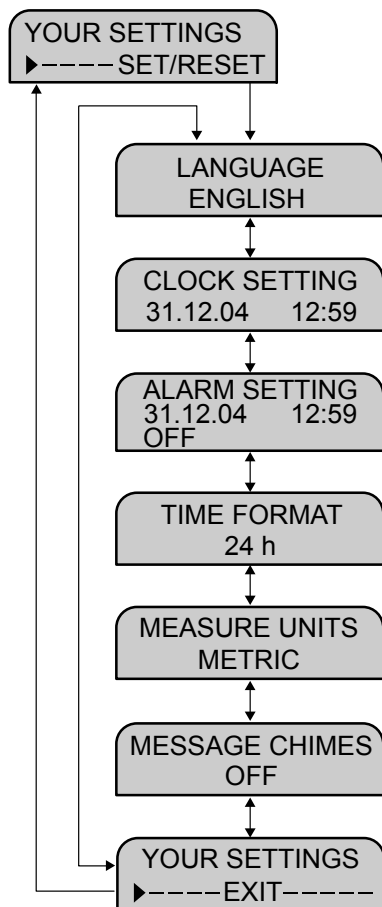
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Messages	Warning lamp	Meaning
SERVICE OIL SOON xx DAYS	-	Indicates the oil service is due.
SERVICE OIL RESET IN PROG	-	Service oil reset is in progress.
SERVICE OIL RESET COMPLETE	-	Service oil reset is complete.
*ALARM* RESET TO STOP	-	Alarm clock is ringing. See <b>Personalised settings</b> (page 62).

# Information displays

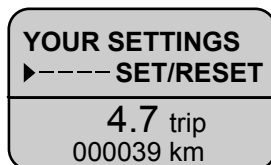
## PERSONALISED SETTINGS

### Overview of the your settings menu displays



E73990

### Your settings menu



E73989

The following sub-menus are available in the **your settings menu**:

- Language
- Clock setting
- Alarm setting
- Time format
- Units of measure
- Message chimes

### Language setting



E73991

A choice of eleven languages are available:

English (UK), German, Italian, French, Spanish, Turkish, Russian, Dutch, Polish, Swedish, Portuguese.

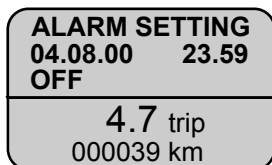
Once selected, turn the rotary control to save the setting and exit the menu.

### Clock setting

See **Clock** (page 79).

# Information displays

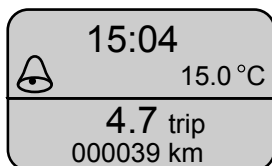
## Alarm setting



E74286

- Press and hold **SET** and **RESET**. The day starts to flash. Adjust using the rotary control.
- Press the **SET** and **RESET** button to confirm the setting and move to the month.
- Proceed in the same way to set the year, hours and minutes.
- After setting the minutes and pressing **SET** and **RESET**, the time is stored.
- Press **SET** and **RESET** to turn the alarm on or off.

## Alarm activated



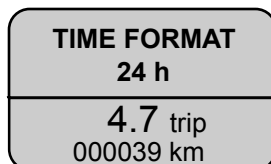
E74287



E74387

Press **SET** and **RESET** to turn off.

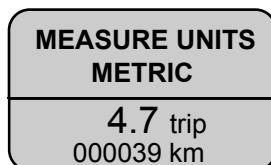
## Time format



E73995

Press **SET** and **RESET** to toggle between 12 and 24 hour format.

## Units of measure



E73993

Press **SET** and **RESET** to toggle between metric and imperial units.

## Message chimes

The following chimes can be deactivated:

- ambient temperature at 4°C
- set time confirmation
- **SET** and **RESET** button press



E73994

# Information displays

---

Press **SET** and **RESET** to toggle the chimes on and off.

## Your Settings - Exit



E73996

Press **SET** and **RESET** to exit.

# Climate control

---

## PRINCIPLE OF OPERATION

### Outside air

Keep the air intakes forward of the windscreen free from obstruction (snow, leaves etc.) to allow the climate control system to function effectively.

### Recirculated air

#### CAUTION



Prolonged use of recirculated air may cause the windows to mist up. If the windows mist up, follow the settings for defrosting and demisting the windscreen.

The air currently in the passenger compartment will be recirculated. Outside air will not enter the vehicle.

### Heating

Heating performance depends on the temperature of the engine coolant.

### Air conditioning

**Note:** *The air conditioning operates only when the temperature is above 4°C (39°F).*

**Note:** *If you use the air conditioning, the fuel consumption of your vehicle will be higher.*

Air is directed through the evaporator where it is cooled. Humidity is extracted from the air to help keep the windows free of mist. The resulting condensation is directed to the outside of the vehicle and it is therefore normal if you see a small pool of water under your vehicle.

### General information on controlling the interior climate

Fully close all the windows.

#### Warming the interior

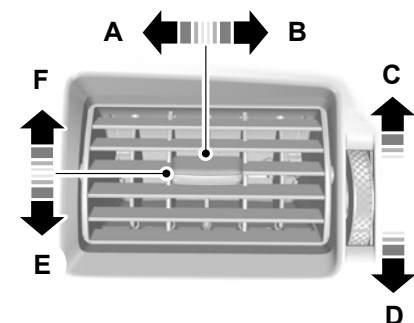
Direct the air towards your feet. In cold or humid weather conditions, direct some of the air towards the windscreen and the door windows.

#### Cooling the interior

Direct the air towards your face.

# Climate control

## AIR VENTS

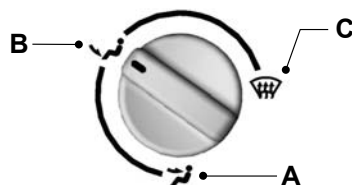


E71344

- A Left
- B Right
- C Open
- D Close
- E Down
- F Up

## MANUAL CLIMATE CONTROL

### Air distribution control



E65965

- A Face level
- B Footwell
- C Windscreen

**Note:** A small amount of air is always directed towards the windscreen.

### Temperature control

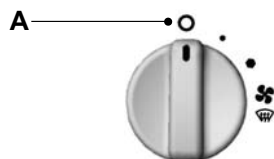


E65966



# Climate control

## Blower

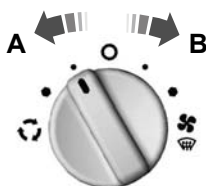


E65967

A Off

**Note:** If you switch the blower off, the windscreen may mist up.

## Recirculated air



E65968

A Recirculated air

B Outside air

## Defrosting and demisting the windscreen quickly



E65969

Close all of the air vents for maximum airflow to the windscreen. If necessary, switch the heated windows on. See **Heated windows and mirrors** (page 69).

## Heating the interior quickly



E65970

## Ventilation

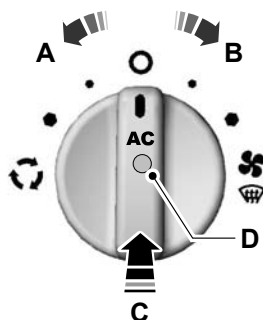


E65971

# Climate control

## Air conditioning

### Switching the air conditioning on and off



E65972

- A Recirculated air
- B Outside air
- C On and off
- D Air conditioning indicator

**Note:** The indicator in the control will come on when the air conditioning is operating.

### Cooling with outside air



E65973

Switch the air conditioning on.

## Cooling the interior quickly



E65974

Switch the air conditioning on.

### Defrosting and demisting the windscreen



E65975

- A Windscreen

Set the air distribution control to position **A** and select outside air. When the temperature is above 4°C (39°F), the air conditioning will switch on automatically. The indicator in the control will **not** come on in this instance.

# Climate control

## Reducing interior air humidity



E65976

A Windscreen

Set the air distribution control to position **A** and select outside air. When the temperature is above 4°C (39°F), the air conditioning will switch on automatically. The indicator in the control will **not** come on in this instance.

## HEATED WINDOWS AND MIRRORS

### Heated windows

Use the heated windows to defrost or demist the windscreen or rear window.

**Note:** The heated windows operate only when the engine is running.

### Heated windscreen



### Heated rear window



## Heated exterior mirrors

Electric exterior mirrors are fitted with a heating element that will defrost or demist the mirror glass. They will switch on automatically when you switch the heated windscreen or the heated rear window on.

## AUXILIARY HEATER

### General information

#### WARNINGS



Do not operate the programmable fuel fired heater at filling stations, near sources of combustible vapours or dust or in enclosed spaces.



Do not refuel when the programmable fuel fired heater display is on.

**Note:** The programmable fuel fired heater will switch off automatically when the battery voltage is low.

**Note:** All symbols on the display will flash if the power to the programmable fuel fired heater has been interrupted. The heater will not operate under these circumstances. Re-set the clock time.

**Note:** The programmable fuel fired heater will shut down in the event of a malfunction. Have the system checked by an expert.

Observe the following information:

# Climate control

---

- Switch the programmable fuel fired heater on for approximately 10 minutes at least once a month, all year round. This prevents the water pump and heater motor from seizing.
- To avoid corrosion, make sure the coolant in your vehicle contains at least 10 % antifreeze all year round.
- Make sure the coolant level is between the **MAX** and **MIN** marks on the reservoir to prevent air locks. See **Engine coolant check** (page 137).
- Programmable blower operation begins when the coolant reaches a certain temperature. In this mode, ambient temperature has no effect.
- In continuous heater operation, the unit senses the ambient temperature. If this is above 5°C (41°F) the programmable fuel fired heater heater will not activate.


The programmable fuel fired heater operates independently of the vehicle heater by heating the engine's coolant circuit. It is fed from the vehicle fuel tank. It may also be used while the vehicle is in motion to help the vehicle heater warm up the interior more quickly.

It is possible that when the programmable fuel fired heater is activated, exhaust fumes may come from under the sides of the vehicle. This is normal.

## Principle of operation

### Before operation

#### CAUTION

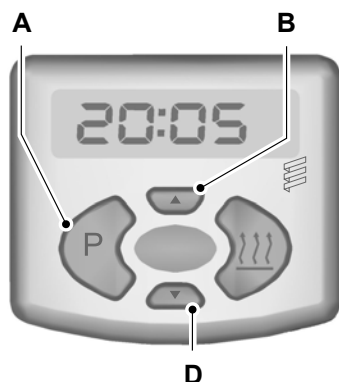
 Turning the blower switch to a position other than position one will reduce battery life or even flatten the battery.

Before activating or programming the heater, prepare the following settings:

- Set the vehicle heater temperature control to maximum.
- Turn the blower switch to position one.
- Switch on the recirculated air before turning the ignition off. Wait at least five seconds for the ventilation system to close the outside air vents.
- Open all the cabin air vents.

# Climate control

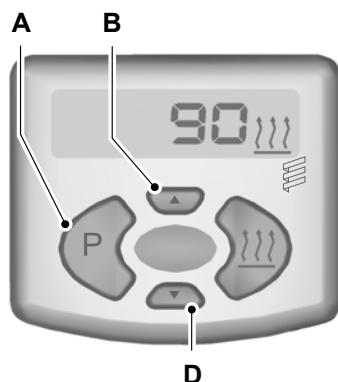
## Setting the clock time



E71347

Press and hold button **A** for more than three seconds, until the time flashes in the display. Within five seconds, press buttons **B** and **D** to set the time. To adjust the time rapidly, press and hold the respective button.

## Setting the heating duration



E71348

### CAUTION

! The recommended setting is 30 minutes. Longer durations will reduce battery life or even flatten the battery.

**Note:** The heating duration for pre-set times and the timed heating mode can be set between 10 and 120 minutes.

Press and hold button **A** for more than three seconds, until the time flashes in the display. Wait for five seconds until the heating symbol appears and the heating time flashes.

Press buttons **B** and **D** to adjust the heating duration.

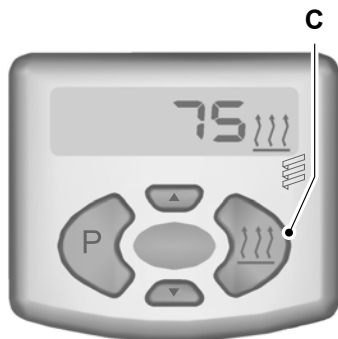
After setting the heating duration, press button **A**. The display will show the clock time with the colon flashing.

# Climate control

## Switching off the heater

Press the heating symbol button. The heater will operate for an additional three minutes, and then stop. The display will then show the clock time.

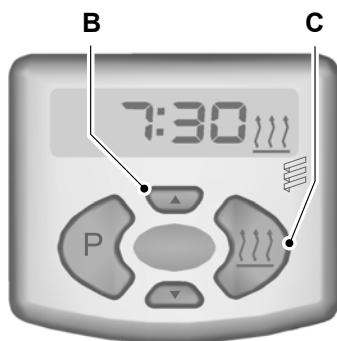
## Timed heating mode



E71349


The heater may be switched on to heat for the pre-set duration at any time. Press button **C**. The display will light up and show the remaining heating time and the heating symbol.

## Continuous heater operation



E71350

### WARNING

 The heater will continue to operate after the ignition is switched off. Switch the heater off to avoid unnecessary heating.

Press and hold button **B**. Press button **C**. The heater will now operate until button **C** is pressed again. The display will light up and show the clock time and the heating symbol.

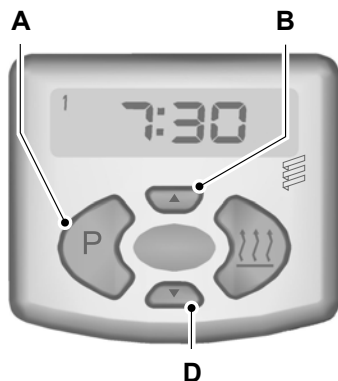
## Programmable heating mode

The heater will come on automatically at the activated pre-set start time, and will stay on for the programmed duration. The display will light up and show the remaining heating duration and the heating symbol.

You can program up to three different pre-set start times.

# Climate control

## Programming the pre-set heating start times

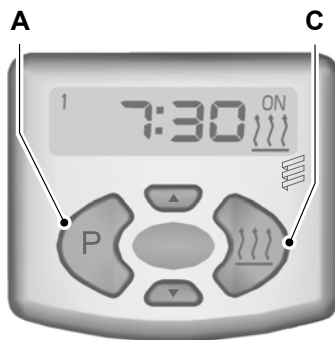


E71351

Press button **A** repeatedly, until the symbol (**1**, **2** or **3**) for the desired pre-set time is displayed. Press buttons **B** and **D** to set the time. To adjust the time rapidly, press and hold the respective button.

After programming the pre-set start times press button **A**. The display will show the clock time with the colon flashing.

## Activating and deactivating pre-set start times

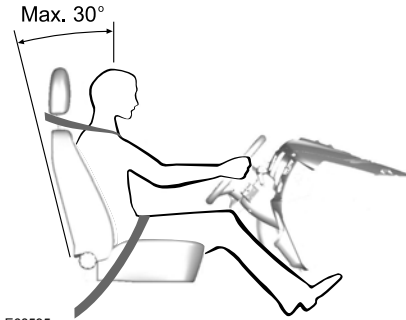


E71352

Press button **A** repeatedly, until the symbol (**1**, **2** or **3**) for the desired pre-set time is displayed. Press button **C**. The **ON** symbol will appear in the display. To deactivate a pre-set time, press button **C** again.

# Seats

## SITTING IN THE CORRECT POSITION



E68595

### WARNINGS



Do not adjust the seats when the vehicle is moving.



Only when you use the seat belt properly, can it hold you in a position that allows the airbag to achieve its optimum effect.

When you use them properly, the seat, head restraint, seat belt and airbags will provide optimum protection in the event of a collision. We recommend that you:

- sit in an upright position with the base of your spine as far back as possible.
- do not recline the seatback more than 30 degrees.
- adjust the head restraint so that the top of it is level with the top of your head and as far forwards as possible, remaining comfortable.

- keep sufficient distance between yourself and the steering wheel. We recommend a minimum of 254 millimetres (10 inches) between your breastbone and the airbag cover.
- hold the steering wheel with your arms slightly bent.
- bend your legs slightly so that you can press the pedals fully.
- position the shoulder strap of the seat belt over the centre of your shoulder and position the lap strap tightly across your hips.

Make sure that your driving position is comfortable and that you can maintain full control of your vehicle.

## FRONT SEATS

### WARNING



Do not adjust the seats when the vehicle is moving.



# Seats

## Moving the seats backwards and forwards



E66529

### WARNING



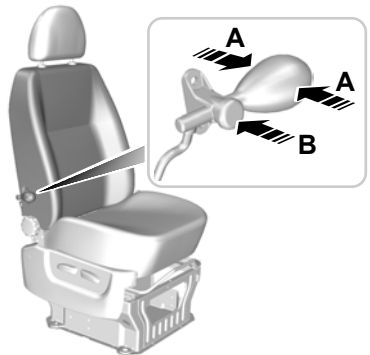
Rock the seat backwards and forwards after releasing the lever to make sure that it is fully engaged in its catch.

### CAUTION



Do not move the front seats too close to the instrument panel. The front nine catch positions are only to provide access to the vehicle battery.

## Adjusting the lumbar support



E66530

A Increase

B Decrease

## Adjusting the angle of the seat base



E66531

# Seats



E66532

## Adjusting the angle of the seatback



E66533

## Adjusting the armrest





E66534

Turn the wheel underneath the armrest.

## REAR SEATS

### WARNINGS

 Do not use the bench seats as a bed when the vehicle is moving.

 Make sure that the seats and the seatbacks are secure and fully engaged in their catches.

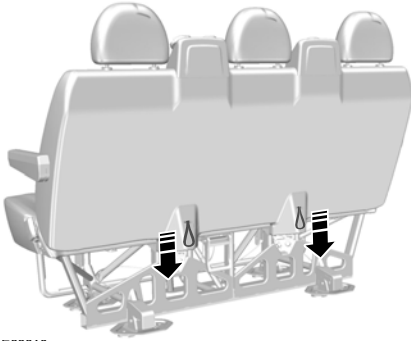
## Folding a single seatback forwards



E70789

# Seats

## Folding the entire seatback forwards



E68610

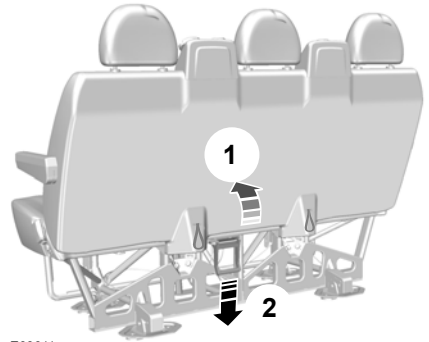
To fold the seatback:

1. Pull the release straps down and hold them there.
2. Push the seatback forwards.

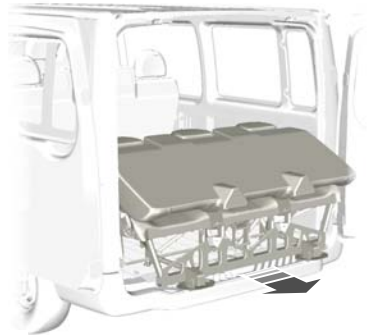
To return the seatback to its upright position:

1. Pull the release straps down and hold them there.
2. Push the seatback to the upright position.

## Removing the bench seats



E68611



E68612

### WARNINGS



Plug the bolt holes that are exposed when you remove the seats to prevent exhaust fumes from entering the vehicle.



The bench seat weighs 89 kilogrammes.

# Seats

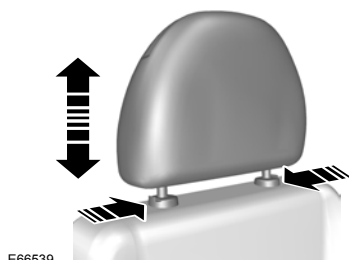
## CAUTION

- ! Store the seat in a dry and secure place.

1. Fold the seatback forwards.
2. Pull the release up and hold it there.
3. Gently pull the seat backwards until the front of the seat frame clears the catches on the floor.
4. Remove the seat.

Install the seat in the reverse order.

## HEAD RESTRAINTS



### Adjusting the head restraint

## WARNING

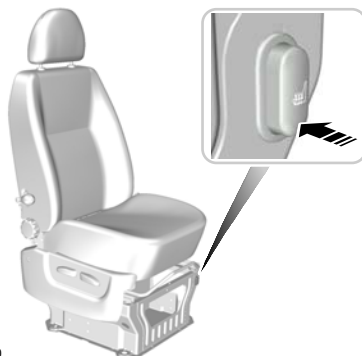
- ! Raise rear head restraint when the rear seat is occupied by a passenger or a child restraint.

Adjust the head restraint so that the top of it is level with the top of your head.

## Removing the head restraint

Press the locking buttons and remove the head restraint.

## HEATED SEATS



**Note:** Start the engine to use the heated seats.

The heated seats will reach their maximum temperature after five or six minutes. They will go off automatically.

# Convenience features

## CLOCK

### Vehicles with low series instrument cluster

#### With a Ford audio navigation system or audio unit with compact disc player

For detailed instructions on how to adjust the clock, refer to the separate audio manual.

#### With an audio unit without compact disc player

See **Gauges** (page 49).

**Note:** *You will hear a short tone when the time is set.*

- Switch the ignition to position II.
- Press and hold the clock set button for more than three seconds, until the time flashes in the display.
- Press the clock set button to adjust the time. To adjust the time rapidly, press and hold the button.

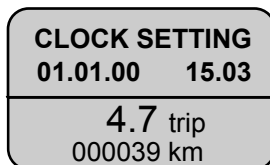
Press and hold the clock set button for more than one second to toggle between 12 and 24 hour format.

### Vehicles with high series instrument cluster

#### With a Ford audio navigation system or audio unit

For detailed instructions on how to adjust the clock, refer to the separate manual.

Without a Ford audio navigation system or audio unit



E73992

- Scroll to this display. Press and hold **SET** and **RESET**. The day starts to flash. Adjust using the rotary control.
- Press the **SET** and **RESET** button to confirm the setting and move to the month.
- Proceed in the same way to set the year, hours and minutes.

After setting the minutes and pressing **SET** and **RESET**, the time and date are stored.

## SUN VISORS



E66493

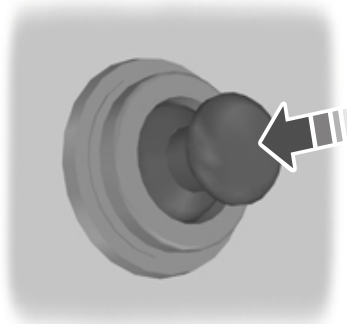
# Convenience features

---

## TICKET HOLDERS



E77059



E72972

Press the element in to use the cigar lighter. It will pop out automatically.

For item location: See **Quick start** (page 6).

## CIGAR LIGHTER

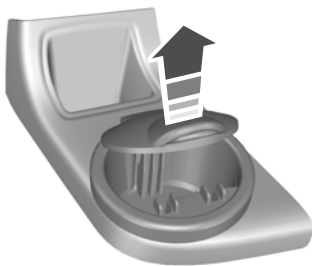
### CAUTIONS

- ⚠ If you use the socket when the engine is not running, the battery may discharge.
- ⚠ Do not hold the cigar lighter element pressed in.

**Note:** Switch the ignition on to use the cigar lighter. You can also use it for up to 30 minutes after you have switched the ignition off.

**Note:** You can use the socket to power 12 volt appliances that have a maximum current rating of 20 Amperes. Use only Ford accessory connectors or connectors specified for use with SAE standard sockets.

## ASHTRAY




E69119

# Convenience features

## AUXILIARY POWER SOCKETS

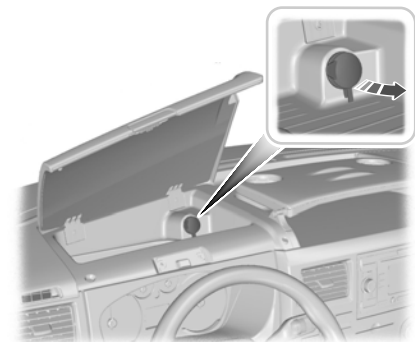
### CAUTION

 If you use the auxiliary power socket when the engine is not running, the battery may discharge.

**Note:** Switch the ignition on to use the auxiliary power socket.

**Note:** You can use the auxiliary power socket when the ignition is switched off.

**Note:** You can use the socket to power 12 volt appliances that have a maximum current rating of 20 Amperes. Use only Ford accessory connectors or connectors specified for use with SAE standard sockets.

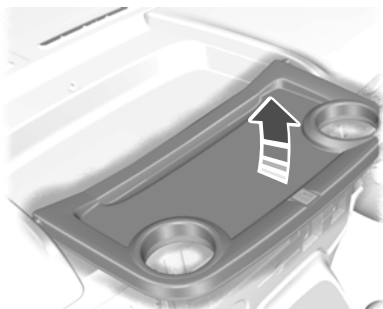


E69125

## CUP HOLDERS






E69128



E69129

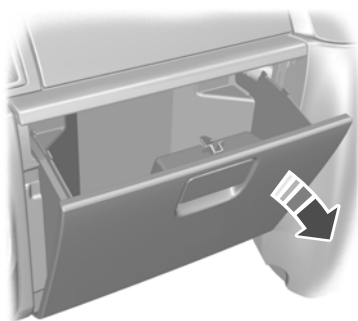
### WARNINGS

-  Do not place hot drinks in the cup holders when the vehicle is moving.
-  Do not use the tray when the vehicle is moving.
-  Do not place glass objects in the cup holders.

# Convenience features

---

## GLOVE BOX



E69134

You can use the glove box as a filing cabinet.

## STORAGE COMPARTMENTS

### Overhead storage compartment



E69133

## WARNING



Do not place heavy objects in the overhead storage compartment.

### Front storage compartment



E77061

## BOTTLE HOLDER



E75484



## Convenience features

---

### **WARNING**



Do not place glass objects in the bottle holder.

---

# Starting the engine

---


## STARTING A PETROL ENGINE

**Note:** *You can only operate the starter for a maximum of 30 seconds at a time.*

### Cold or hot engine

#### All vehicles

#### CAUTION

 When the temperature is below -20°C (-4°F), switch the Ignition on for at least one second before starting the engine. This will make sure that the maximum fuel pressure is established for starting the engine.

#### Vehicles with manual transmission

**Note:** *Do not touch the accelerator pedal.*

1. Fully depress the clutch pedal.
2. Start the engine.

#### Vehicles with automatic transmission

**Note:** *Do not touch the accelerator pedal.*

1. Select park or neutral.
2. Fully depress the brake pedal.
3. Start the engine.

#### All vehicles

If the engine does not start within 15 seconds, wait for a short period and try again.

If the engine does not start after **three** attempts, wait 10 seconds and follow the **Flooded engine** procedure.

If you have difficulty starting the engine when the temperature is below -25°C (-13°F), press the accelerator pedal between ¼ to ½ of its travel and try again.

### Flooded engine

#### Vehicles with manual transmission

1. Fully depress the clutch pedal.
2. Fully depress the accelerator pedal and hold it there.
3. Start the engine.

#### Vehicles with automatic transmission

1. Select park or neutral.
2. Fully depress the accelerator pedal and hold it there.
3. Fully depress the brake pedal.
4. Start the engine.

#### All vehicles

If the engine does not start, repeat the **Cold or hot engine** procedure.

### Engine idle speed after starting

The speed at which the engine idles immediately after starting will vary depending on the engine temperature.

# Starting the engine

---

If the engine is cold then the idle speed will automatically be increased.

The idle speed will slowly decrease to the normal level as the engine warms up.

## STARTING A DIESEL ENGINE

### Cold or hot engine

#### All vehicles

**Note:** When the temperature is below  $-15^{\circ}\text{C}$  ( $5^{\circ}\text{F}$ ), you may need to crank the engine for up to 25 seconds. If you consistently operate the vehicle in such temperatures, we recommend that you have an engine block heater fitted.

**Note:** Continue cranking the engine until it starts.

**Note:** You can only operate the starter for a maximum of 30 seconds at a time.



Switch the ignition on and wait until the glow plug indicator goes off.

### Vehicles with manual transmission

**Note:** Do not touch the accelerator pedal.

1. Fully depress the clutch pedal.
2. Start the engine.

### Vehicles with automatic transmission

1. Select park or neutral.
2. Fully depress the brake pedal.
3. Start the engine.

## DIESEL PARTICULATE FILTER (DPF)

The DPF forms part of the emissions reduction systems fitted to your vehicle. It filters harmful diesel particulates (soot) from the exhaust gas.

### Regeneration

#### WARNING



Do not park or idle your vehicle over dry leaves or dry grass or other combustible material. The regeneration process requires very high exhaust gas temperatures and the exhaust will radiate a considerable amount of heat during and after regeneration, and after you have switched the engine off. This is a potential fire hazard.

Unlike a normal filter which requires periodic replacement, the DPF has been designed to regenerate, or clean itself to maintain operating efficiency. The regeneration process takes place automatically. However, some driving conditions mean that you may need to support the regeneration process.

# Starting the engine

---

If you drive only short distances or your journeys contain frequent stopping and starting, you must initiate the regeneration process if the soot overload warning lamp in the instrument cluster illuminates. See **Warning lamps and indicators** (page 52). When safe to do so:


- Drive your vehicle on a free flowing journey for up to 30 minutes, avoiding prolonged idling.
- Do not switch off the ignition.
- Use a lower gear than normal to maintain a higher engine speed during this journey.

This process may have to be repeated. The warning lamp will go out when the regeneration process is successful.

## SWITCHING OFF THE ENGINE

### Vehicles with a turbocharger

#### CAUTION

 Do not switch the engine off when it is running at high speed. If you do, the turbocharger will continue running after the engine oil pressure has dropped to zero. This will lead to premature turbocharger bearing wear.

---

Release the accelerator pedal. Wait until the engine has reached idle speed and then switch it off.

# Fuel and refuelling

---

## SAFETY PRECAUTIONS

### WARNINGS



Stop refuelling after the fuel nozzle stops the second time. Additional fuel will fill the expansion space in the fuel tank which could lead to fuel overflowing. Fuel spillage could be hazardous to other road users.



Do not use any kind of flames or heat near the fuel system. The fuel system is under pressure. There is a risk of injury if the fuel system is leaking.

## FUEL QUALITY - PETROL

**Note:** *We recommend that you use only high quality fuel without additives or other engine treatments.*

### CAUTION



Do not use leaded petrol or petrol with additives containing other metallic compounds (e.g. manganese-based). They could damage the emission system.

Use **minimum 95 octane unleaded** petrol that meets the specification defined by **EN 228**, or equivalent.

## FUEL QUALITY - DIESEL

**Note:** *We recommend that you use only high quality fuel without additives or other engine treatments.*

### WARNING



Do not mix diesel with oil, petrol or other liquids. This could cause a chemical reaction.

### CAUTION



Do not add kerosene, paraffin or petrol to diesel. This could cause damage to the fuel system.

**Note:** *We do not recommend the prolonged use of additives intended to prevent fuel waxing.*

Use diesel that meets the specification defined by **EN 590**, or equivalent.

You can use diesel that contains up to 5% RME (bio diesel).

## CATALYTIC CONVERTER

### Driving with a catalytic converter

#### CAUTIONS



Avoid running out of fuel.



Do not crank the engine for long periods.



Do not run the engine when a spark plug lead is disconnected.



Do not push-start or tow-start your vehicle. Use booster cables. See **Using booster cables** (page 144).




Do not switch the ignition off when driving.

# Fuel and refuelling


## Parking


### WARNING

 Do not park your vehicle over dry leaves or dry grass. The exhaust will continue to radiate a considerable amount of heat after you have switched the engine off. This is a potential fire hazard.


## FUEL FILLER FLAP

### WARNINGS

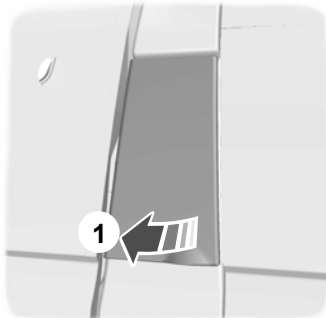
 Take care when refuelling to avoid spilling any residual fuel from the fuel pipe nozzle.

 We recommend that you wait at least 10 seconds before removing the fuel pipe nozzle to allow any residual fuel to drain into the fuel tank.

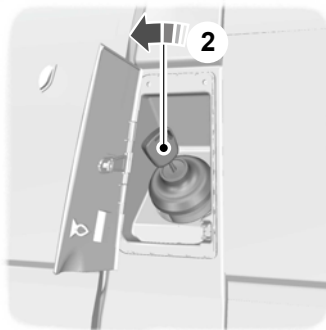
### CAUTION

 If you use a high pressure spray to wash your vehicle, only spray the fuel filler flap briefly from a distance not less than 20 centimetres (8 inches).

**Note:** *It is normal to hear a hissing noise when you remove the filler cap.*




E66588



E95392

## REFUELLING

### CAUTION

 Do not attempt to start the engine if you have filled the fuel tank with the incorrect fuel. This could damage the engine. Have the system checked by a properly trained technician immediately.

# Fuel and refuelling

## FUEL CONSUMPTION

The CO<sub>2</sub> and fuel consumption figures are derived from laboratory tests according to EEC Directive 80/1268/EEC and subsequent amendments and are carried out by all vehicle manufacturers.

They are intended as a comparison between makes and models of vehicles. They are not intended to represent the real world fuel consumption you may get from your vehicle. Real world fuel consumption is governed by many factors including; driving style, high speed driving, stop/start driving, air conditioning usage, the accessories fitted and towing etc.

Your Ford dealer can give you advice on improving your fuel consumption.

## TECHNICAL SPECIFICATIONS

### Fuel consumption figures

Variant	Urban	Extra-urban	Combined	CO <sub>2</sub> emissions
	l/100 km (mpg)	l/100 km (mpg)	l/100 km (mpg)	g/km
Tourneo 2.2L DuraTorq-TDCi 62.5kW (85 PS), Axle ratio: 4.23	9.3 (30.4)	6.6 (42.8)	7.6 (37.2)	201
Tourneo 2.2L DuraTorq-TDCi 81kW (110 PS), Axle ratio: 4.23	9.3 (30.4)	6.6 (42.8)	7.6 (37.2)	201
Tourneo 2.2L DuraTorq-TDCi 96kW (130 PS), Axle ratio: 4.54	9.8 (28.8)	6.7 (42.2)	7.8 (36.0)	207
Kombi 2.2L DuraTorq-TDCi 62.5kW (85 PS), Axle ratio: 4.23	9.1 (31.0) - 9.2 (30.7)	6.4 (44.1) - 6.5 (43.5)	7.4 (38.2) - 7.5 (37.7)	195 - 198
Kombi 2.2L DuraTorq-TDCi 81kW (110 PS), Axle ratio: 4.23	9.1 (31.0) - 9.2 (30.7)	6.4 (44.1) - 6.5 (43.5)	7.4 (38.2) - 7.5 (37.7)	195 - 198

## Fuel and refuelling

Variant	Urban	Extra-urban	Combined	CO2 emissions
	l/100 km (mpg)	l/100 km (mpg)	l/100 km (mpg)	g/km
Kombi 2.2L DuraTorq-TDCi 81kW (110 PS), Axle ratio: 4.54	9.1 (31.0) - 9.2 (30.7)	6.7 (42.2) - 6.8 (41.5)	7.6 (37.2) - 7.7 (36.8)	200 - 203
Kombi 2.2L DuraTorq-TDCi 96kW (130 PS), Axle ratio: 4.54 up to T300	9.6 (29.4) - 9.7 (29.1)	6.5 (43.5) - 6.6 (42.8)	7.6 (37.0) - 7.7 (36.5)	202 - 204
Kombi 2.2L DuraTorq-TDCi 96kW (130 PS), Axle ratio: 4.54 T330 and above	9.4 (30.1) - 9.5 (29.7)	6.7 (42.2) - 6.8 (41.5)	7.7 (36.7) - 7.8 (36.2)	203 - 206
Kombi 2.4L DuraTorq-TDCi 74kW (100 PS), Axle ratio: 4.78	11.1 (25.5) - 11.3 (25.0)	7.3 (38.7) - 7.7 (36.7)	8.7 (32.5) - 9.0 (31.3)	230 - 238
Kombi 2.4L DuraTorq-TDCi 74kW (100 PS), Axle ratio: 5.11	11.8 (23.9) - 12.2 (23.2)	7.8 (36.2) - 8.2 (34.5)	9.3 (30.5) - 9.7 (29.2)	245 - 255
Kombi 2.4L DuraTorq-TDCi 85kW (115 PS), Axle ratio: 3.73, 6-speed manual transmission	10.4 (27.2) - 10.6 (26.7)	7.1 (39.8) - 7.3 (38.7)	8.3 (34.0) - 8.5 (33.2)	220 - 225
Kombi 2.4L DuraTorq-TDCi 85kW (115 PS), Axle ratio: 4.27, 6-speed manual transmission	12.2 (23.2) - 12.6 (22.4)	7.7 (36.7) - 7.9 (35.8)	9.4 (30.2) - 9.6 (29.3)	247 - 254
Kombi 2.4L DuraTorq-TDCi 103kW (140 PS), Axle ratio: 3.73, 6-speed manual transmission	11.2 (25.2) - 11.4 (24.8)	7.2 (39.2) - 7.6 (37.2)	8.7 (32.6) - 9.0 (31.4)	229 - 238



# Fuel and refuelling

Variant	Urban	Extra-urban	Combined	CO2 emissions
	l/100 km (mpg)	l/100 km (mpg)	l/100 km (mpg)	g/km
Kombi 2.4L DuraTorq-TDCi 103kW (140 PS), Axle ratio: 4.27, 6-speed manual transmission	12.4 (22.8) - 12.8 (22.1)	7.7 (36.7) - 8.1 (34.9)	9.4 (30.0) - 9.8 (28.7)	249 - 260
Kombi 3.2L DuraTorq-TDCi, Axle ratio: 3.58	12.9 (21.9)	7.9 (35.8)	9.8 (28.7)	209 - 341
Kombi 3.2L DuraTorq-TDCi, Axle ratio: 4.10	14.4 (19.6)	8.4 (33.6)	10.6 (26.7)	222 - 380

# Transmission

## MANUAL TRANSMISSION

### CAUTION

⚠ Do not engage reverse gear when the vehicle is moving. This could cause damage to the transmission.

**Note:** Fully depress the clutch pedal and wait for three seconds before you select reverse gear.

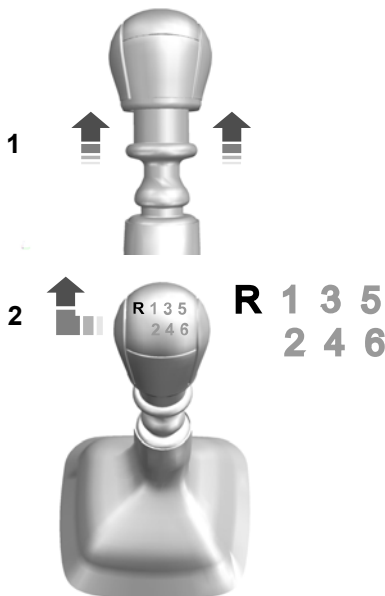
### Selecting reverse gear

#### Vehicles with a 5-speed transmission



E68298

#### Vehicles with a 6-speed transmission



E68299

## ALL-WHEEL DRIVE (AWD)

### CAUTION

⚠ A vehicle fitted with AWD must be recovered with either **ALL** wheels on the ground or **ALL** wheels off the ground. See **Vehicle recovery** (page 127).

# Transmission

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The AWD system, fitted to certain rear-wheel drive variants, is purely mechanical and will automatically provide driving torque to the front wheels when road conditions become slippery with rain, snow or ice etc.

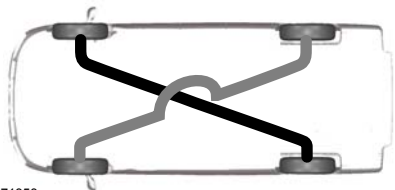
While driving, the AWD indicator illuminates during activation of the system. If it does not illuminate or illuminates continuously while driving, this indicates a malfunction. During a malfunction, the system switches off. Have the system checked by a properly trained technician.

When AWD is no longer required the system automatically disengages and normal rear-wheel drive functionality is resumed.

# Brakes


## PRINCIPLE OF OPERATION

### Dual circuit braking system



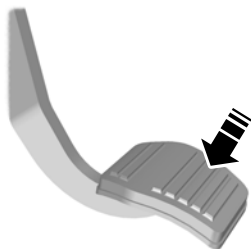
E71353

#### WARNING

 If a brake circuit fails, you will notice a softer feel to the brake pedal. Press the brake pedal firmly and allow for increased stopping distances. Stop and have this checked immediately. Do not continue your journey.

Your vehicle is fitted with a diagonally split, dual circuit brake system. If a brake circuit fails, the other remains operational.

### Disc brakes



E71354

Wet brake discs result in reduced braking efficiency. Dab the brake pedal when driving from a car wash to remove the film of water.

### ABS

#### WARNING

 The ABS does not relieve you of your responsibility to drive with due care and attention.

The ABS helps you to maintain full steering and directional stability when you brake heavily in an emergency, by preventing the road wheels from locking. The ABS monitors the speed of each road wheel and varies the pressure to each brake. The ABS optimizes the tyre-to-road adhesion when you brake heavily.

### HINTS ON DRIVING WITH ABS



E71355

When the ABS is operating, the brake pedal will pulse. This is normal. Maintain pressure on the brake pedal.

# Brakes

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The ABS will not eliminate the dangers inherent when:

- you drive too close to the vehicle in front of you.
- the vehicle is aquaplaning.
- you take corners too fast.
- the road surface is poor.


## PARKING BRAKE

### Applying the parking brake



E66567

### WARNING

 Make sure that the parking brake is applied before you release the lever.

**Note:** *Do not press the release button when you apply the parking brake.*

1. Press the brake pedal firmly.
2. Pull the parking brake lever upwards to its fullest extent.

### Parking on a hill

If you have to park facing uphill, select first gear and turn the front wheels away from the kerb. If you have to park facing downhill, select reverse gear and turn the front wheels towards the kerb.

### Releasing the parking brake

1. Press the brake pedal firmly.
2. Pull the parking brake lever upwards slightly, press the release button and push the lever downwards.

# Stability control

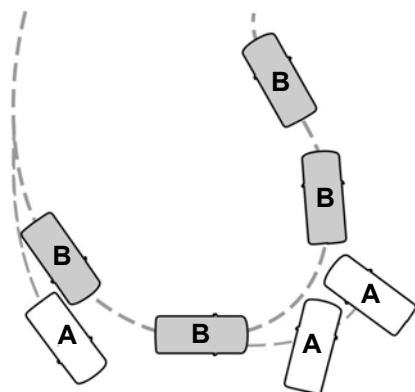
## PRINCIPLE OF OPERATION

### Electronic stability programme (ESP)

#### WARNING



ESP does not relieve you of your responsibility to drive with due care and attention.



E72903

- A without ESP
- B with ESP

The ESP supports stability when the vehicle starts to slide away from your intended path. This is performed by braking individual wheels and reducing engine torque as needed.

The system also provides an enhanced traction control function by reducing engine torque if the wheels spin when you accelerate. This improves your ability to pull away on slippery roads or loose surfaces, and improves comfort by limiting wheel spin in hairpin bends.

### Stability control (ESP) warning lamp

The ESP warning lamp will flash when the system is operating. See **Warning lamps and indicators** (page 52).

### Emergency brake assist

#### WARNING



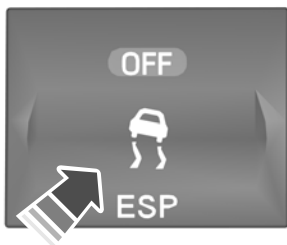
Emergency brake assist does not relieve you of your responsibility to drive with due care and attention.

Emergency brake assist will detect when you brake heavily by measuring the rate at which you press the brake pedal. It will provide maximum braking efficiency as long as you press the pedal. Emergency brake assist can reduce stopping distances in critical situations.

# Stability control

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## USING STABILITY CONTROL



E78085

With vehicle speed below 60 km/h (37 mph), press and hold the switch for one second. The switch will illuminate.

**Note:** *If you turn the system off, the system will reactivate temporarily if the brakes are applied during a vehicle slide. The ESP warning lamp will flash in this instance.*

**Note:** *If you turn the system off, the system will automatically reactivate if your vehicle speed goes above 60 km/h (37 mph).*

Press the switch again to turn the system on. The system will be switched on automatically every time you switch the ignition on.

For item location: See **Quick start** (page 6).

# Hill launch assist (HLA)


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## PRINCIPLE OF OPERATION

The hill launch assist (HLA) system makes it easier to pull away when the vehicle is on a slope without the need to use the parking brake.

When the HLA is active, the vehicle will remain stationary on the slope for two to three seconds after you release the brake pedal. During this time, you have time to move your foot from the brake to the accelerator pedal and pull away. The brakes are released automatically once the engine has developed sufficient drive to prevent the vehicle from rolling down the slope. This is an advantage when pulling away on a slope, for example from a car park ramp, traffic lights or when reversing uphill into a parking space.

### WARNING

 The HLA does not replace the parking brake. When you leave the vehicle, always apply the parking brake and select first or reverse gear.

## USING HLA

The HLA is activated automatically when the vehicle is stopped on a slope greater than 4%. HLA operates with the vehicle facing downhill if reverse gear is selected.

## Activating the HLA

### WARNINGS



You must remain in the vehicle once you have activated the HLA.



The HLA is active only if the green HLA lamp illuminates in the instrument cluster. During all times you are responsible for controlling the vehicle, supervising the HLA and intervening, if required.

You can activate the HLA only if the following conditions have been met:

- The engine is running.
- All doors (including cargo doors) are fully closed.
- The parking brake is fully disengaged.
- No failure mode is present.

To activate the HLA:

1. Press the brake and clutch pedals to bring the vehicle to a complete standstill. Keep the brake and clutch pedals depressed.
2. If the sensors detect that the vehicle is on a slope the HLA will be activated automatically and the green HLA lamp will illuminate in the instrument cluster.
3. When you remove your foot from the brake pedal, the vehicle will remain on the slope without rolling away for approximately two to three seconds. This hold time will automatically be extended if you are in the process of driving off.



# Hill launch assist (HLA)

---

4. Drive off in the normal manner.  
The brakes will be released automatically.

## WARNING



If the engine is revved excessively, or if a malfunction is detected when the HLA is active, the HLA will be deactivated and the green HLA lamp will go out.

## Deactivating the HLA

To deactivate the HLA, perform **one** of the following:

- Apply the parking brake.
- Open any door (including cargo doors).
- Drive off uphill without re-applying the brake.
- Wait for two to three seconds until the HLA deactivates automatically.
- If the HLA is active in a forward gear, select reverse gear.
- If the HLA is active in neutral, release the clutch pedal.
- If the HLA is active in reverse gear, select neutral.

The green HLA lamp will go out.

## Disabling the HLA

Your dealer can permanently disable the HLA if required.

# Traction control

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## PRINCIPLE OF OPERATION

The traction control system improves traction when one wheel starts to spin at vehicle speeds up to 40 km/h (25 mph). If a wheel starts to spin, the traction control system varies the pressure to the brake of that wheel until it stops spinning.

## USING TRACTION CONTROL

The traction control system is operational when you switch the ignition on.

The traction control indicator will flash when the system is operating. Slowly accelerate until the spinning wheel regains its traction.


The traction control system will stop working temporarily if used excessively within a short period of time. This is normal and has no effect on the brake system.

The traction control system will continue to operate when ESP is switched off. The warning lamp in the instrument cluster will **not** flash in this case.


# Parking aid


## PRINCIPLE OF OPERATION


### WARNING


 The parking aid does not relieve you of your responsibility to drive with due care and attention.

### CAUTIONS

 The sensors may not detect objects in heavy rain or other conditions that cause disruptive reflections.

 The sensors may not detect objects with surfaces that absorb ultrasonic waves.

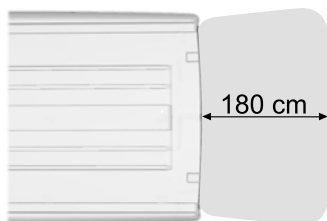
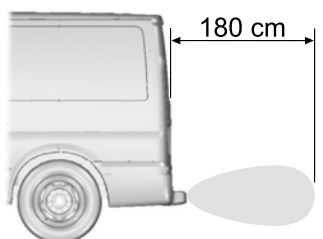
 The sensors may not detect objects that are close to the vehicle (approximately 30 centimetres [11 inches] to the rear and above or below the sensors).

 If you use a high pressure spray to wash your vehicle, only spray the sensors briefly from a distance not less than 20 centimetres (8 inches).

**Note:** The parking aid may emit false tones if it detects a signal using the same frequency as the sensors or if the vehicle is fully laden.


**Note:** The outer sensors may detect the side walls of a garage. If the distance between the outer sensor and the side wall remains constant for three seconds, the tone will switch off. As you continue, the inner sensors will detect rearward objects.

## USING THE PARKING AID



E71358

### CAUTION

 The parking aid may detect an aftermarket tow bar. The parking aid will only indicate the distance between the bumper and the obstacle, not the distance between the tow bar and the obstacle.

**Note:** Keep the sensors free from dirt, ice and snow. Do not clean with sharp objects.

The parking aid is automatically activated when you select reverse gear with the ignition switched on.

# Parking aid

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You will hear an intermittent tone at a distance of up to 180 centimetres between the obstacle and rear bumper. Decreasing the distance accelerates the intermittent tone. A continuous tone will start at a distance of less than 40 centimetres.

**Note:** *If a high pitch tone is heard for three seconds, this indicates a malfunction. The system will switch off automatically if it malfunctions. Have this checked as soon as possible.*


# Rear view camera

## PRINCIPLE OF OPERATION


### WARNING

 The rear view camera does not relieve you of your responsibility to drive with due care and attention.

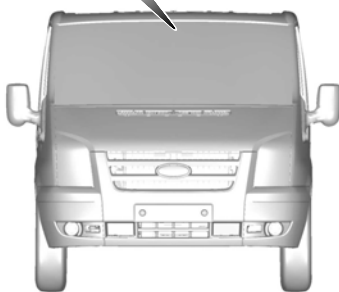
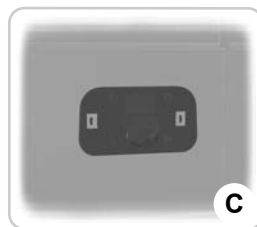
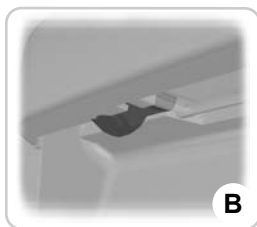
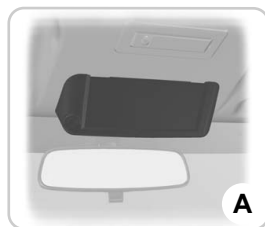
### CAUTIONS

 If you use a high pressure spray to wash your vehicle, only spray the rear view camera briefly from a distance not less than 20 centimetres (8 inches).

### CAUTIONS

 Do not apply pressure to the rear view camera. The position and the angle of the camera automatically changes.

**Note:** *Keep the rear view camera free from dirt, ice and snow. Do not clean with sharp objects, degreaser, wax or organic products. Use only a soft cloth.*



E95058

# Rear view camera

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- A Rear view camera display
- B Rear view camera - liftgate
- C Rear view camera - cargo door

The rear view camera is a visual aid for use when reversing.

During operation, guide lines appear in the display which represent your vehicle's path and approximate distance from rearward objects.

## USING THE REAR VIEW CAMERA

### WARNINGS



The operation of the rear view camera may vary depending on the ambient temperature, vehicle and road conditions.



The distances shown in the display may differ from the actual distance.



Do not place objects in front of the rear view camera.

**Note:** When you disengage reverse gear, the display will stay on for a few more seconds before switching off automatically.

## Activating the rear view camera



E95060

### CAUTION



The rear view camera may not detect objects that are close to the vehicle.

Engage the reverse gear to activate the camera.

**Note:** The system will not function unless the ignition is switched on.

The rear view camera may not operate correctly in the following conditions:

- Dark areas.
- Intense light.
- If the ambient temperature increases or decreases rapidly.
- If the camera is wet, for example in rain or high humidity.
- If the camera's view is obstructed, for example by mud.

# Rear view camera

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## Using the display

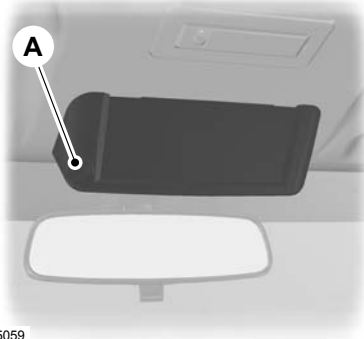
### CAUTIONS

⚠ Obstacles above the camera position will not be shown. Inspect the area behind your vehicle if necessary.

⚠ Distance marks and width marks are for general guidance only, and are calculated for vehicles in maximum load conditions on an even road surface with the front wheels in a straight forward position.

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## Switching the rear view camera on and off



E95059

A On and off button

Press button **A** to manually switch the system on and off.

**Note:** *The button will only function whilst the reverse gear is selected.*

# Cruise control

## PRINCIPLE OF OPERATION

Cruise control allows you to control your speed using the switches on the steering wheel. You can use cruise control when you exceed 30 km/h (20 mph).

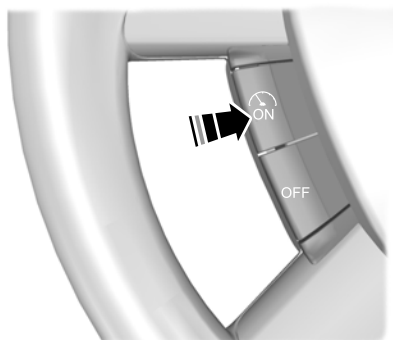
## USING CRUISE CONTROL

### WARNING



Do not use cruise control in heavy traffic, on twisty roads or when the road surface is slippery.

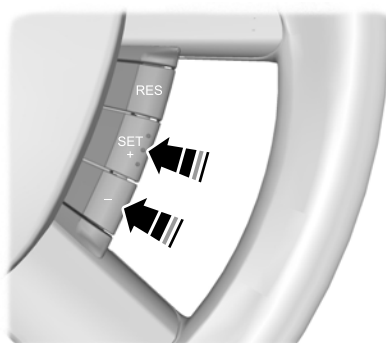
## Switching cruise control on



E75456

**Note:** The system is ready for you to set a speed.

## Setting a speed



E75452

Press to store and maintain your current speed. The cruise control indicator will illuminate. See **Warning lamps and indicators** (page 52).

## Changing the set speed

### WARNING

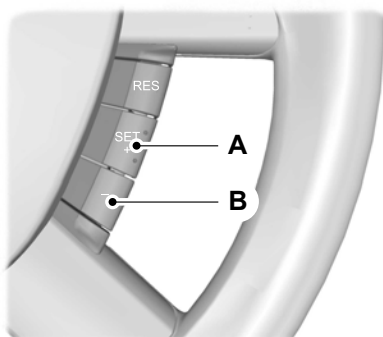


When you are going downhill, your speed may increase above the set speed. The system will not apply the brakes. Change down a gear and press the **SET-** switch to assist the system in maintaining the set speed.

**Note:** If you accelerate by pressing the accelerator pedal, the set speed will not change. When you release the accelerator pedal, you will return to the speed that you previously set.



# Cruise control

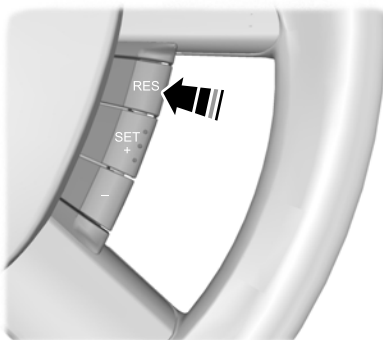


E95393

A Accelerate

B Decelerate

## Cancelling the set speed



E75453

Press the brake pedal or the **RES** switch.

**Note:** The system will no longer control your speed. The cruise control indicator will not illuminate but the system will retain the speed that you previously set.

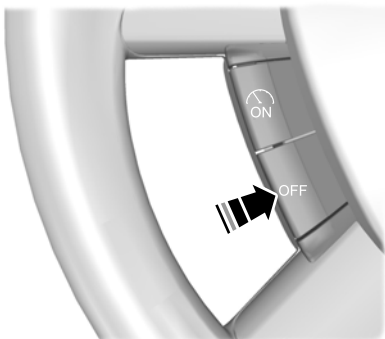
## Resuming the set speed



E75453

The cruise control indicator will illuminate and the system will attempt to resume the speed that you previously set.

## Switching cruise control off



E75455

The system will not retain the speed that you previously set. The cruise control indicator will not illuminate.

# Load carrying

---

## GENERAL INFORMATION

### WARNINGS



Use load securing straps to an approved standard, e.g. DIN.



Make sure that you secure all loose items properly.



Place luggage and other loads as low and as far forward as possible within the luggage or loadspace.



Do not drive with the tailgate or rear door open. Exhaust fumes may enter the vehicle.

### WARNINGS



Do not exceed the maximum front and rear axle loads for your vehicle. See **Vehicle identification** (page 171).

---

## LOAD RETAINING FIXTURES

**Note:** *The number of load retaining fixtures may vary depending on your vehicle model.*

### Securing cargo

**Note:** *The floor anchor points comply to DIN 75410 standard.*

# Load carrying

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E75510

# Load carrying

## Supplementary retaining fixtures

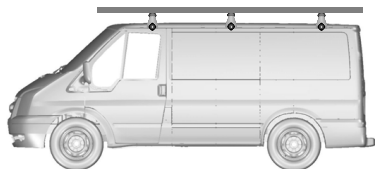
### Mid-height cargo rail



E77500


## ROOF RACKS AND LOAD CARRIERS

### Roof rack




E71359


## WARNINGS

 If you use a roof rack, the fuel consumption of your vehicle will be higher and you may experience different driving characteristics.

 Read and follow the manufacturer's instructions when you are fitting a roof rack.

## CAUTIONS

 Do not exceed the maximum axle load for your vehicle. See **Vehicle identification** (page 171).

 Do not exceed the maximum permissible roof load of 150 kilogrammes (including the roof rack).

Check the security of the roof rack and its fittings as follows:

- before starting
- after driving 50 kilometres (30 miles)
- at 1 000 kilometres (600 miles) intervals.

## Vehicles with an emergency exit

See **Emergency exit** (page 113).

# Towing

---

## TOWING A TRAILER

### WARNINGS



Do not exceed the maximum vehicle and trailer weight stated on the vehicle identification plate. See **Vehicle identification** (page 171).



Do not exceed a speed of 90 km/h (55 mph) when towing with a laden weight greater than 2 000kg.

**Note:** *Not all vehicles are suitable or approved to have tow bars fitted. Check with your dealer first.*

Place loads as low and central to the axle(s) of the trailer as possible. If you are towing with an unladen vehicle, the load in the trailer should be placed toward the nose, within the maximum nose load, as this gives the best stability.

**Note:** *The maximum trailer nose weight can be found on the manufacturers data plate on the tow bar.*

The stability of the vehicle to trailer combination is very much dependant on the quality of the trailer.

The maximum vehicle and trailer weights represent technically binding values for gradients up to 12 % and at an altitude of 1 000 metres above sea level. In high altitude regions, thinner atmosphere can reduce engine performance so the following restrictions will apply:

In high altitude regions, the stipulated maximum permitted gross train weight must be reduced by 10% for every 1 000 metres.

### Steep gradients

#### WARNING



The overrun brake on a trailer is not controlled by the anti-lock braking system.

Change down a gear before you reach a steep downhill gradient.


# Driving hints

---

## RUNNING-IN


### Tyres

#### WARNING

 New tyres need to be run-in for approximately 500 kilometres (300 miles). During this time, you may experience different driving characteristics.


### Brakes and clutch

#### WARNING

 Avoid heavy use of the brakes and clutch if possible for the first 150 kilometres (100 miles) in town and for the first 1 500 kilometres (1 000 miles) on motorways.

### Engine

#### CAUTION

 Avoid driving too fast during the first 1 500 kilometres (1 000 miles). Vary your speed frequently and change up through the gears early. Do not labour the engine.


## REDUCED ENGINE PERFORMANCE

Your vehicle can be driven briefly if the engine overheats, without damage to the engine. The engine will continue to operate with limited power. The distance you can travel depends on ambient temperature, vehicle load, and terrain.

If the needle moves to the upper limit position, the engine is overheating. See **Gauges** (page 49).

If the temperature continues to rise, the fuel supply to the engine will be reduced. The air conditioning (if fitted) will also be turned off and the engine cooling fan will operate.

#### CAUTION

 Continued operation will increase the engine temperature, and cause the engine to shut down completely.

- Stop your vehicle as soon as possible.
- Immediately turn off the engine to prevent severe engine damage.
- Wait for the engine to cool down.
- Check the coolant level. See **Engine coolant check** (page 137).
- Have the vehicle checked by an expert immediately.

# Emergency equipment

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## FIRST AID KIT

### Bus

Space for a first aid kit is located underneath the second row seat.

### Van, Kombi, Chassis cab, Flatbed truck

Space for a first aid kit is located in the driver's side door bin.

## WARNING TRIANGLE

You will find a space for storing a warning triangle in driver side door bin.

## EMERGENCY EXIT

### WARNING



Make sure that the roof rack and its load do not obstruct the emergency exit. Ask your dealer for advice on roof racks suitable for your vehicle.

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Break the glass with the hammer in an emergency.

# Status after a collision

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## FUEL CUT-OFF SWITCH



E71360

If you have an accident or a minor collision (e.g. collision when parking), the fuel cut-off switch may stop the fuel supply. The switch is located on the side panel in front of the passenger side front door.

## Resetting the fuel cut-off switch

### WARNING



Do not reset the fuel cut-off switch if you see or smell fuel.

- Switch the ignition off.
- Check the fuel system for leaks.
- Press the top of the cut-off switch to reset.
- Switch the ignition on and, after a few seconds, turn the key to position **I**.
- Check the fuel system again for leaks.

## INSPECTING SAFETY SYSTEM COMPONENTS

### Seat belts

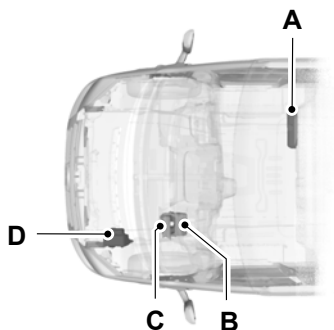
Belts subjected to strain, as a result of an accident, should be renewed and the anchorages checked by a properly trained technician.



# Fuses

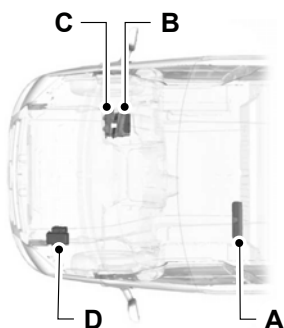
## FUSE BOX LOCATIONS

### Right-hand drive



E70864

### Left-hand drive



E91162

- A Pre-fuse box
- B Standard relay box
- C Passenger compartment junction box
- D Engine compartment junction box

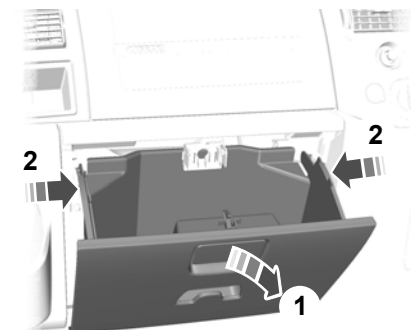
### Pre-fuse box

#### Driver seat



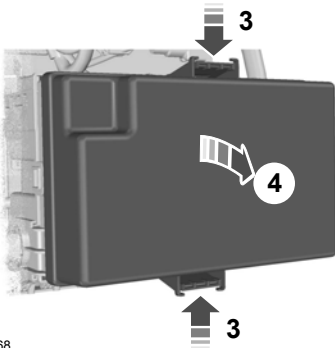
E70866

### Standard relay box



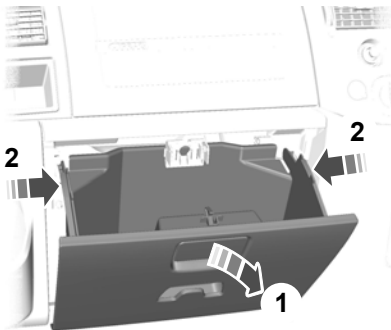
E70869

# Fuses

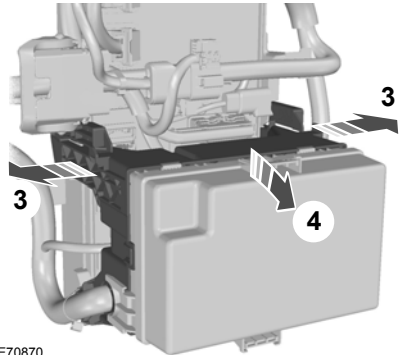


E70868

## Passenger junction box



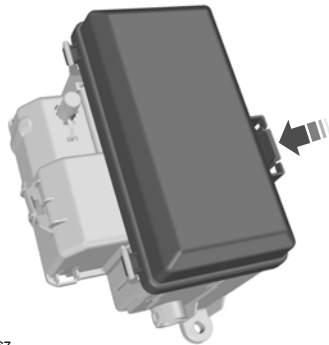
E70869



E70870

**Note:** When refitting, make sure you hear a click when engaging both clips.

## Engine junction box




E70867


For item location: See **Maintenance** (page 129).

# Fuses


## CHANGING A FUSE

### WARNINGS

 Do not modify the electrical system of your vehicle in any way. Have repairs to the electrical system and the replacement of relays and high current fuses carried out by properly trained technicians.

 Switch the ignition and all electrical equipment off before touching or attempting to change a fuse.

### CAUTION

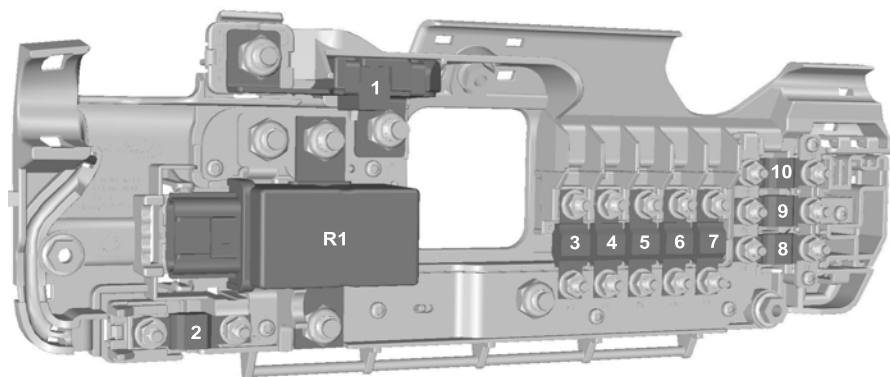
 Fit a replacement fuse with the same rating as the one you have removed.

**Note:** You can identify a blown fuse by a break in the filament.

**Note:** All fuses, except high current fuses, are a push fit.

## FUSE SPECIFICATION CHART

### Pre-fuse box



E70871

# Fuses

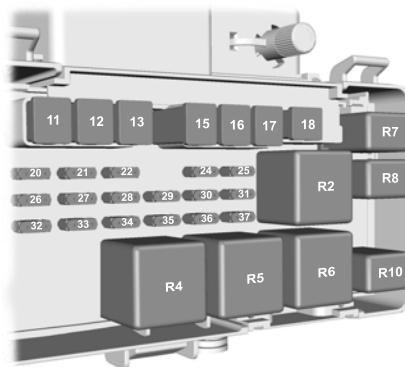
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Fuse	Ampere rating	Colour	Circuits protected
1	350	grey	Starter motor and alternator
2	60	yellow	Passenger junction box power supply - start relevant
3	100	blue	Engine junction box power supply - non-start relevant
4	40	green	Heated front screen right-hand side
5	100	blue	Standard relay box power supply - non-start relevant
6	40	green	Heated front screen left-hand side
7	60	yellow	Passenger junction box power supply - non-start relevant
8	60	yellow	Customer connection point
9	60	yellow	Customer connection point
10	60	yellow	Customer connection point

Relay	Circuits switched
R1	Battery disconnect switch

# Fuses

## Engine junction box



E70872

Fuse	Ampere rating	Colour	Circuits protected
11	60	yellow	Engine cooling fan
12	30	pink	Trailer tow and trailer tow module power supply (KL30)
13	40	green	ABS and ESP pump
14	-	-	Not used
15	60	yellow	Glow plugs
16	60	yellow	Ignition relay (KL15 #3)
17	30	pink	Starter enable
18	40	green	Ignition feed (KL15) to Passenger junction box

# Fuses

Fuse	Ampere rating	Colour	Circuits protected
19	-	-	Not used
20	10	red	ABS, ESP, steering angle sensor, YAW sensor supply (KL30)
21	25	natural	ABS and ESP valves and control unit
22	20	yellow	PCM power relay
23	-	-	Not used
24 <b>Diesel</b>	20	yellow	Additional heater, programmable fuel-fired booster heater
24 <b>Petrol</b>	20	yellow	Fuel pump
25	5	tan	Battery-fed relay coils
26	15	blue	PCM Power
27	7.5	brown	Glow plug monitoring
28 <b>Diesel</b>	5	tan	T-MAF sensor
28 <b>Petrol</b>	15	blue	Catalyst monitoring system and HEGO sensors
29	5	tan	Water in fuel sensor ( <b>Diesel only</b> ), power supply relay coils

# Fuses

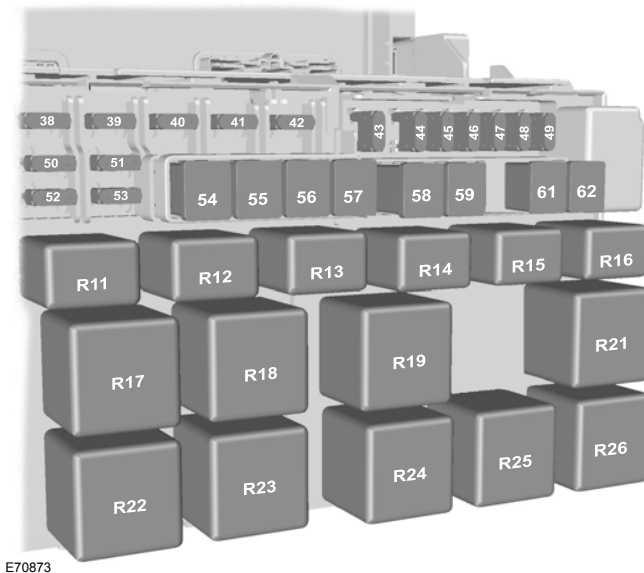
Fuse	Ampere rating	Colour	Circuits protected
30	10	red	Sonic purge valve, injector valves <b>(Petrol only)</b>
31	5	tan	Vehicle speed sensor
32 <b>Diesel</b>	20	yellow	Vaporiser glow plug
32 <b>Petrol</b>	20	yellow	Coil on plug ignition module
33	10	red	Reversing lamps
34	20	yellow	Trailer tow power supply (KL15)
35	5	tan	Additional heater (KL15)
36	10	red	Air conditioning clutch
37	5	tan	Ignition-fed relay coils, PCM ignition run key sense

Relay	Circuits switched
R2	Glow plugs
R3	Not used
R4	Starter enable
R5	Power feed (KL15 #4)
R6	Power feed (KL15 #3)
R7 <b>Diesel</b>	Vaporiser glow plug
R7 <b>Petrol</b>	Fuel pump

# Fuses

Relay	Circuits switched
R8	Powetrain control module power
R9	Not used
R10	Air conditioning clutch solenoid

## Standard relay box



E70873

Fuse	Ampere rating	Colour	Circuits protected
38	20	yellow	Rear window wiper
39	10	red	Front and rear air conditioning control
40	5	tan	Relay coils supply



# Fuses

Fuse	Ampere rating	Colour	Circuits protected
41	5	tan	Tachograph
42	5	tan	Headlamp levelling, master light switch (KL15)
43	20	yellow	Heated front seats
44	20	yellow	Horn
45	20	yellow	Auxiliary powerpoint front
46	10	red	Heated door mirrors, if CAT 1 fitted
47	20	yellow	Cigar lighter
48	5	tan	Relay coils supply, power mirrors
49	20	yellow	Auxiliary powerpoint rear
50	10	red	Main beam left-hand side
51	10	red	Main beam right-hand side
52	10	red	Dipped beam left-hand side
53	10	red	Dipped beam right-hand side
54	30	pink	Pre-fuse for dipped beam, main beam, daytime running lamps, tachograph, fuel-fired booster heater blower
55	40	green	Heater blower motor
56	20	yellow	Power windows
57	30	pink	Rear heater blower motor
58	30	pink	Front wiper motor
59	30	pink	Heated rear window, heated door mirrors
60	-	-	Not used
61	60	yellow	Ignition relay (KL15 #1)
62	60	yellow	Ignition relay (KL15 #2)

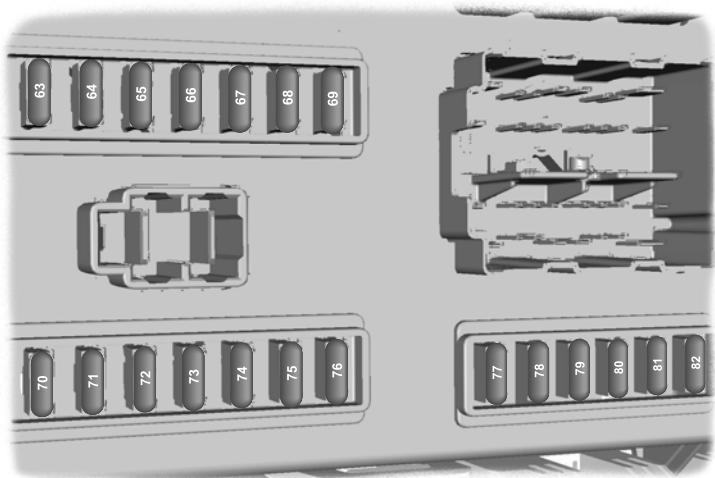
# Fuses

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Relay	Circuits switched
R11	Headlamp dip beam
R12	Heated door mirrors (if CAT 1 alarm is fitted)
R13	Headlamp main beam
R14	Horn
R15	Daytime running lamps
R16	Programmable fuel fired heater
R17	Heated rear windows and heated door mirrors (or heated rear window left-hand side if Cat 1 alarm is fitted)
R18	Heated rear window right-hand side if Cat 1 alarm is fitted
R19	Power feed (KL15 #2)
R20	Reserved for special vehicle operation use
R21	Power feed (KL15 #1)
R22	Heated windscreen right-hand side
R23	Windscreen wiper high and low function
R24	Rear window wiper
R25	Windscreen wiper on and off function
R26	Heated windscreen left-hand side

# Fuses

## Passenger junction box



E70874

Fuse	Ampere rating	Colour	Circuits protected
63	5	tan	Rear parking aid, rain sensor
64	2	grey	Acceleration pedal demand sensor
65	15	blue	Brake lamp switch
66	5	tan	Instrument cluster, PATS supply, tachograph, instrument panel switch illumination
67	10	red	Wiper stalk switch
68	10	red	Restraints control module
69	20	yellow	Exterior lamp switch (KL15)
70	20	yellow	Battery backed sounder
71	5	tan	Exterior lamp switch (KL30)

# Fuses

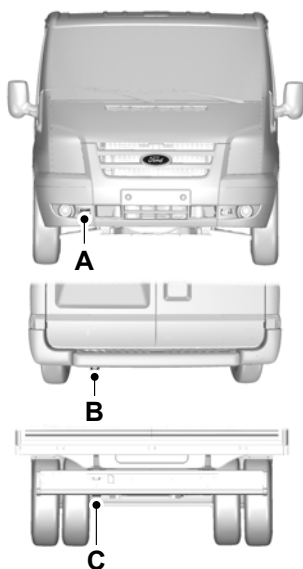
Fuse	Ampere rating	Colour	Circuits protected
72	10	red	Battery saver supply, OBDII (KL30)
73	15	blue	Radio, navigation unit and phone supply
74	5	tan	Instrument cluster, fuel-fired booster heater timer, remote keyless entry supply, interior motion sensor (KL30)
75	5	tan	Side lamps right-hand side
76	7.5	brown	Side lamps left-hand side
77	5	tan	Ignition switch supply, battery disconnect switch coils supply
78	15	blue	Central locking
79	7.5	brown	Number plate lamp, side markers
80	15	blue	Front fog lamps
81	10	red	Rear fog lamps
82	2	grey	Radio, navigation unit, instrument cluster

## Auxiliary fuses

Fuse	Ampere rating	Colour	Circuits protected	Location
83	10	red	Trailer tow module	Left-hand side footwell

# Vehicle recovery

## TOWING POINTS




E71361


- A Front towing eye
- B Rear towing eye (Van, Bus and Kombi)
- C Rear towing eye (Chassis Cab and Flatbed truck)

## TOWING THE VEHICLE ON FOUR WHEELS


### All vehicles

#### WARNINGS

 Switch the ignition on when your vehicle is being towed. The steering lock will engage and the direction indicators and brake lamps will not work if you do not.

 The brake servo and the power steering pump do not operate unless the engine is running. Press the brake pedal harder and allow for increased stopping distances and heavier steering.

#### CAUTIONS


 Too much tension in the tow rope could cause damage to your vehicle or the vehicle that is towing.

 Do not use a rigid tow bar on the front towing eye.

Drive off slowly and smoothly without jerking the vehicle that is towing.

### Vehicles with automatic transmission


#### CAUTIONS


 Do not tow your vehicle faster than 50 km/h (30 mph) or further than 50 kilometres (30 miles).


# Vehicle recovery


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## CAUTIONS

 If a speed of 50 km/h (30 mph) and a distance of 50 kilometres (30 miles) is to be exceeded the drive wheels must be lifted clear of the ground.


 In the event of a mechanical failure of the transmission the drive wheels must be lifted clear of the ground.

 Do not tow your vehicle backwards.

 Select neutral when your vehicle is being towed.

---

## CAUTIONS


 In the event of a breakdown or a mechanical failure of the transmission your vehicle must be recovered with either **ALL** wheels on the ground or transported with **ALL** wheels off the ground.


---

Drive off slowly and smoothly without jerking the vehicle that is towing.

## TOWING THE VEHICLE ON FOUR WHEELS - AWD


### WARNINGS

 Switch the ignition on when your vehicle is being towed. The steering lock will engage and the direction indicators and brake lamps will not work if you do not.

 The brake servo and the power steering pump do not operate unless the engine is running. Press the brake pedal harder and allow for increased stopping distances and heavier steering.

---

### CAUTIONS

 Too much tension in the tow rope could cause damage to your vehicle or the vehicle that is towing.

 Do not use a rigid tow bar on the front towing eye.

# Maintenance

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## GENERAL INFORMATION

Have your vehicle serviced regularly to help maintain its roadworthiness and resale value. There is a large network of Ford Authorised Repairers that are there to help you with their professional servicing expertise. We believe that their specially trained technicians are best qualified to service your vehicle properly and expertly. They are supported by a wide range of highly specialised tools developed specifically for servicing your vehicle.

In addition to regular servicing, we recommend that you carry out the following additional checks.

### WARNINGS



Switch the ignition off before touching or attempting adjustment of any kind.



Do not touch the electronic ignition system parts after you have switched the ignition on or when the engine is running. The system operates at high voltage.



Keep your hands and clothing clear of the engine cooling fan. Under certain conditions, the fan may continue to run for several minutes after you have switched the engine off.

---

## Daily checks

- Exterior lamps.
- Interior lamps.
- Warning lamps and indicators.

## Check when refuelling

- Engine oil level. See **Engine oil check** (page 136).
- Brake fluid level. See **Brake and clutch fluid check** (page 137).
- Washer fluid level. See **Washer fluid check** (page 139).
- Tyre pressures (when cold). See **Wheels and tyres** (page 153).
- Tyre condition. See **Wheels and tyres** (page 153).

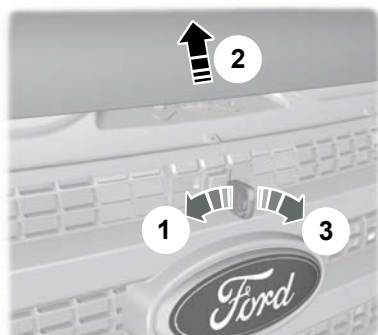
## Monthly checks

- Engine coolant level (engine cold). See **Engine coolant check** (page 137).
- Pipes, hoses and reservoirs for leaks.
- Power steering fluid level. See **Power steering fluid check** (page 138).
- Air conditioning operation.
- Parking brake operation.
- Horn operation.
- Tightness of wheel nuts. See **Wheels and tyres** (page 153).

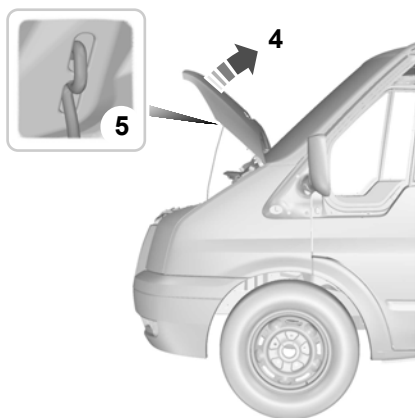
# Maintenance

## OPENING AND CLOSING THE BONNET

### Opening the bonnet



E72108



E72109

### Closing the bonnet

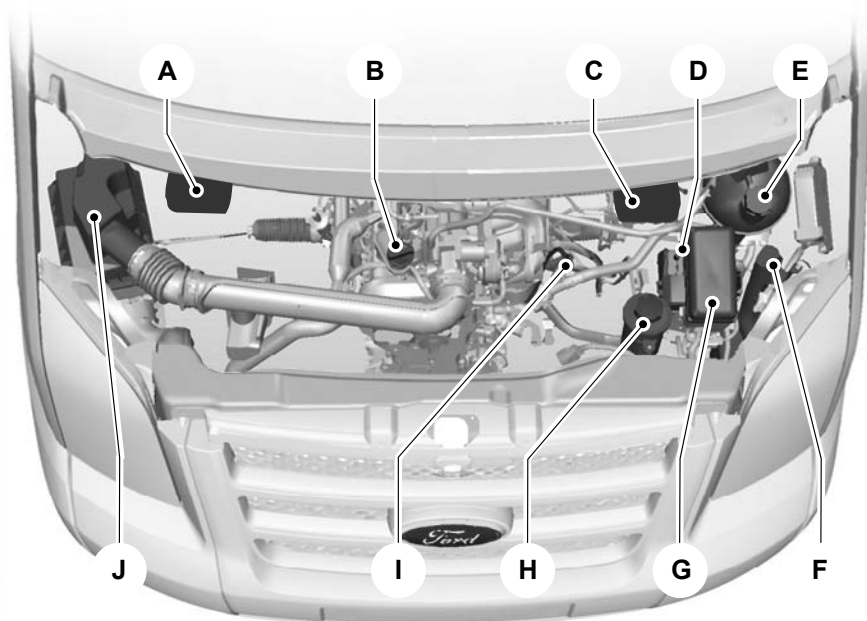
**Note:** Make sure that the bonnet is closed properly.

Lower the bonnet and allow it to drop from under its own weight for the last 20–30 centimetres.



# Maintenance

## ENGINE COMPARTMENT OVERVIEW - 2.3L DURATEC-HE (MI4)



E70606

- A Brake and clutch fluid reservoir (right-hand drive). See **Brake and clutch fluid check** (page 137).
- B Engine oil filler cap. See **Engine oil check** (page 136).
- C Brake and clutch fluid reservoir (left-hand drive). See **Brake and clutch fluid check** (page 137).
- D Battery positive connection (for connecting booster cables). See **Vehicle battery** (page 144).
- E Engine coolant reservoir. See **Engine coolant check** (page 137).
- F Washer fluid reservoir. See **Washer fluid check** (page 139).
- G Engine junction box. See **Fuses** (page 115).

# Maintenance

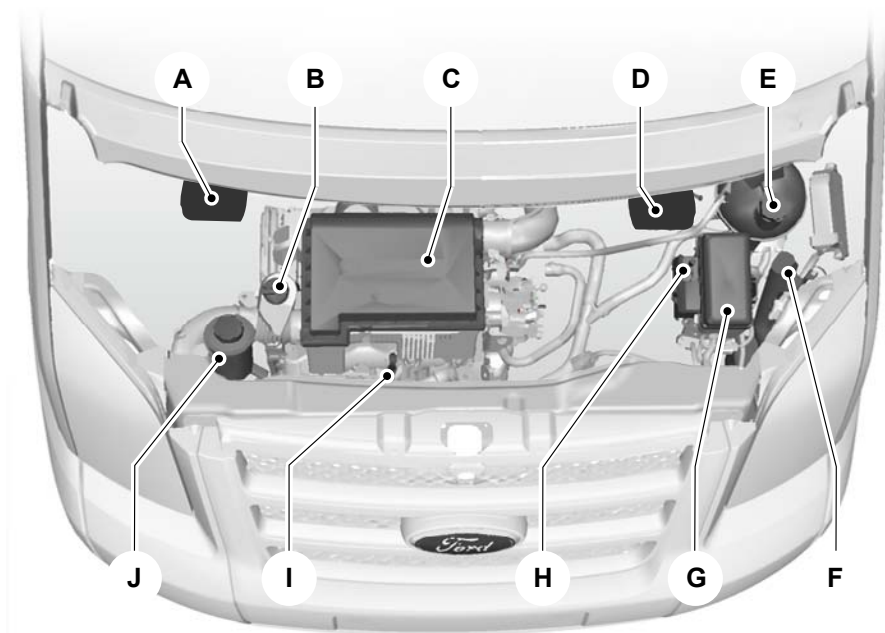
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H Power steering fluid reservoir. See **Power steering fluid check** (page 138).

I Engine oil dipstick. See **Engine oil check** (page 136).

<sup>1</sup> The filler caps and the engine oil dipstick are coloured for easy identification.

## ENGINE COMPARTMENT OVERVIEW - 2.2L DURATORQ-TDCI (PUMA) DIESEL



E70605

# Maintenance

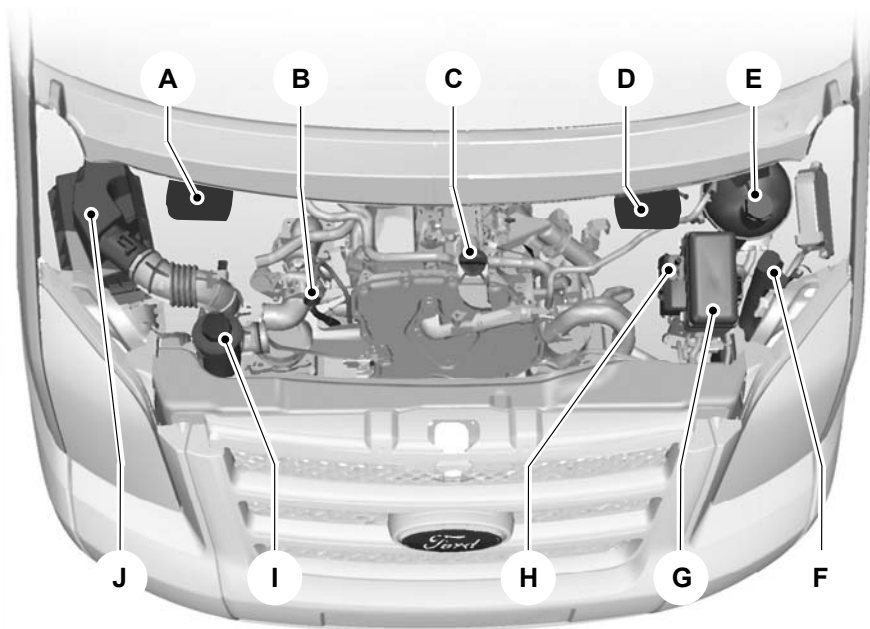
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- A Fuel filter water trap (left-hand drive). See **Draining the fuel filter water trap** (page 138).
- A Brake and clutch fluid reservoir (right-hand drive). See **Brake and clutch fluid check** (page 137).
- B Engine oil filler cap. See **Engine oil check** (page 136).
- C Air cleaner.
- D Brake and clutch fluid reservoir (left-hand drive). See **Brake and clutch fluid check** (page 137).
- D Fuel filter water trap (right-hand drive). See **Draining the fuel filter water trap** (page 138).
- E Engine coolant reservoir. See **Engine coolant check** (page 137).
- F Washer fluid reservoir. See **Washer fluid check** (page 139).
- G Engine junction box. See **Fuses** (page 115).
- H Battery positive connection (for connecting booster cables). See **Vehicle battery** (page 144).
- I Engine oil dipstick. See **Engine oil check** (page 136).
- J Power steering fluid reservoir. See **Power steering fluid check** (page 138).

<sup>1</sup> The filler caps and the engine oil dipstick are coloured for easy identification.

# Maintenance

## ENGINE COMPARTMENT OVERVIEW - 2.4L DURATORQ-TDCI (PUMA) DIESEL/3.2L DURATORQ-TDCI (PUMA) DIESEL



E70607

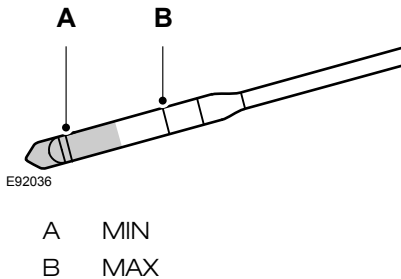
- A Fuel filter water trap (left-hand drive). See **Draining the fuel filter water trap** (page 138).
- A Brake and clutch fluid reservoir (right-hand drive). See **Brake and clutch fluid check** (page 137).
- B Engine oil dipstick<sup>1</sup>. See **Engine oil check** (page 136).
- C Engine oil filler cap<sup>1</sup>. See **Engine oil check** (page 136).
- D Brake and clutch fluid reservoir (left-hand drive). See **Brake and clutch fluid check** (page 137).

# Maintenance

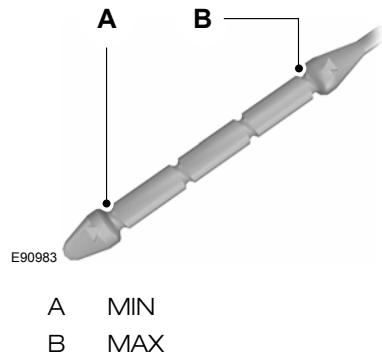
- D Fuel filter water trap (right-hand drive). See **Draining the fuel filter water trap** (page 138).
- E Engine coolant reservoir. See **Engine coolant check** (page 137).
- F Washer fluid reservoir. See **Washer fluid check** (page 139).
- G Engine junction box. See **Changing a fuse** (page 117).
- H Battery positive connection (for connecting booster cables). See **Using booster cables** (page 144).
- I Air cleaner. Power steering fluid reservoir. See **Power steering fluid check** (page 138).
- J Air cleaner.

<sup>1</sup> The filler caps and the engine oil dipstick are coloured for easy identification.

## ENGINE OIL DIPSTICK - 2.3L DURATEC-HE (MI4)

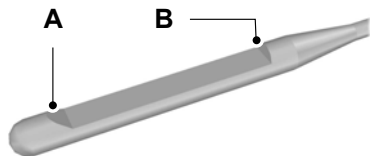


## ENGINE OIL DIPSTICK - 2.2L DURATORQ-TDCI (PUMA) DIESEL



# Maintenance

## ENGINE OIL DIPSTICK - 2.4L DURATORQ-TDCI (PUMA) DIESEL/3.2L DURATORQ-TDCI (PUMA) DIESEL



E71362

- A MIN
- B MAX

## ENGINE OIL CHECK

### CAUTION

⚠ Do not use oil additives or other engine treatments. Under certain conditions, they could damage the engine.

**Note:** The oil consumption of new engines reaches its normal level after approximately 5 000 kilometres (3 000 miles).

## Checking the oil level

### CAUTION

⚠ Make sure that the level is between the **MIN** and the **MAX** marks.

**Note:** Check the level before starting the engine.

**Note:** Make sure that your vehicle is on level ground.

**Note:** Oil expands when it is hot. The level may therefore extend a few millimetres beyond the **MAX** mark.

Remove the dipstick and wipe it with a clean, lint free cloth. Replace the dipstick and remove it again to check the oil level.

If the level is at the **MIN** mark, top up immediately.

## Topping up

### WARNINGS

⚠ Only top up when the engine is cold. If the engine is hot, wait 10 minutes for the engine to cool down.

⚠ Do not remove the filler cap when the engine is running.

Remove the filler cap.

### CAUTION

⚠ Do not top up further than the **MAX** mark.


Top up with fluid that meets the Ford specification. See **Technical specifications** (page 139).

# Maintenance


## ENGINE COOLANT CHECK

### Checking the coolant level

#### WARNING

 Do not allow the fluid to touch your skin or eyes. If this happens, rinse the affected areas immediately with plenty of water and contact your doctor.

#### CAUTION


 Make sure that the level is between the **MIN** and the **MAX** marks.


**Note:** *Coolant expands when it is hot. The level may therefore extend beyond the **MAX** mark.*


If the level is at the **MIN** mark, top up immediately.

### Topping up

#### WARNINGS

 Only top up when the engine is cold. If the engine is hot, wait 10 minutes for the engine to cool down.


 Do not remove the filler cap when the engine is running.

 Do not remove the filler cap when the engine is hot. Wait for the engine to cool down.

Unscrew the cap **slowly**. Any pressure will escape slowly as you unscrew the cap.

#### CAUTIONS


 Do not spill coolant on any part of the engine.

 Do not top up further than the **MAX** mark.

Top up with fluid that meets the Ford specification. See **Technical specifications** (page 139).

## BRAKE AND CLUTCH FLUID CHECK

#### WARNING

 Do not allow the fluid to touch your skin or eyes. If this happens, rinse the affected areas immediately with plenty of water and contact your doctor.

#### CAUTION

 Make sure that the level is between the **MIN** and the **MAX** marks.

**Note:** *The brake and the clutch systems are supplied from the same reservoir.*

If the level is at the **MIN** mark, top up immediately.

### Topping up

Remove the filler cap.

# Maintenance

## CAUTION

⚠ Do not top up further than the **MAX** mark.

Top up with fluid that meets the Ford specification. See **Technical specifications** (page 139).

## POWER STEERING FLUID CHECK

### WARNING

⚠ Do not allow the fluid to touch your skin or eyes. If this happens, rinse the affected areas immediately with plenty of water and contact your doctor.

## CAUTION

⚠ Make sure that the level is between the **MIN** and the **MAX** marks.

If the level is at the **MIN** mark, top up immediately.

### Topping up

Remove the filler cap.

## CAUTION

⚠ Do not top up further than the **MAX** mark.

Top up with fluid that meets the Ford specification. See **Technical specifications** (page 139).

## DRAINING THE FUEL FILTER WATER TRAP

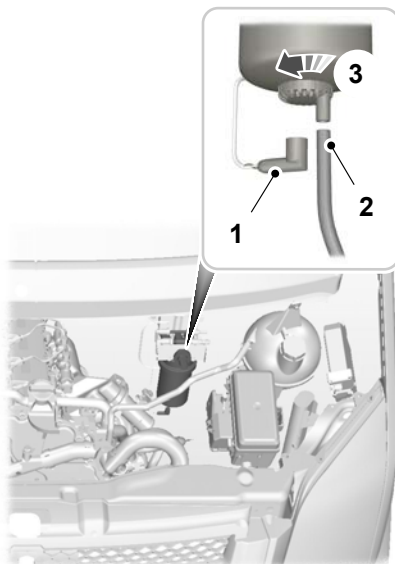
### Vehicles with a diesel engine

## WARNING

⚠ Do not dispose of diesel in household refuse or the public sewage system. Use your local authorised waste disposal facilities.

**Note:** With the engine running, the water-in-fuel indicator lamp will go out after approximately 2 seconds.

**Note:** Only add fuel that meets the Ford specification. See **Fuel and refuelling** (page 87).



E77043



# Maintenance

1. Disconnect the electrical connector.
2. Attach a suitable hose to the sensor drain and direct the hose into a suitable container.
3. Unscrew the sensor one to two turns and allow the water to drain.

Install in the reverse order.

## WASHER FLUID CHECK

**Note:** *The front and rear washer systems are supplied from the same reservoir.*

## TECHNICAL SPECIFICATIONS

### Vehicle fluids

Part	Recommended fluid	Specification
Engine oil	Ford or Motorcraft Formula E SAE 5W-30 Engine Oil <sup>2</sup>	WSS-M2C913-B
Power assisted steering	Ford Power Steering Fluid	WSA-M2C195-A
Coolant	Motorcraft SuperPlus Antifreeze	WSS-M97B44-D
Brake fluid	Ford or Motorcraft Super DOT 4 Brake Fluid	ESD-M6C57-A
Rear axle <sup>1</sup>	Ford Hypoid Oil	WSS-M2C939A

<sup>1</sup>Under normal operating conditions the rear axle requires no maintenance. However, in the event the rear axle becomes submerged under water, have the fluid changed by your dealer.<sup>2</sup> You can use an alternative SAE 5W-30 engine oil, providing it meets the specification defined by **WSS-M2C913-B**.

**Note:** *If you operate your vehicle in temperatures below -20°C, you must not use SAE 10W-40 engine oil.*

**Topping up the oil:** If you are unable to find an oil that meets the specification defined by **WSS-M2C913-B**, you must use **SAE 5W-30** (preferred), SAE 5W-40 or SAE 10W-40 that meets the specification defined by either **ACEA A1/B1** (preferred) or ACEA A3/B3. Using these oils can result in longer engine cranking periods, reduced engine performance, reduced fuel economy and increased emission levels.

# Maintenance

## Capacities

Variant	Item	Capacity in litres (gallons)
All	Power assisted steering fluid	MAX-mark
All	Windscreen washer system	5.5 (1.2)
All - Normal capacity	Fuel tank	80 (17.6)
Increased capacity	Fuel tank	103 (22.7)
2.3L Duratec-HE	Engine oil – with filter	4.3 (1.0)
2.3L Duratec-HE	Engine oil – without filter	3.9(0.9)
2.3L Duratec-HE	Cooling system with auxiliary heater	10.1 (2.2)
2.3L Duratec-HE	Cooling system with front heater only	7.8 (1.7)
2.2L DuraTorq-TDCi	Engine oil – with filter	6.2 (1.4)
2.2L DuraTorq-TDCi	Engine oil – without filter	5.9 (1.3)
2.4L DuraTorq-TDCi	Engine oil – with filter	6.9 (1.5)
2.4L DuraTorq-TDCi	Engine oil – without filter	6.5 (1.4)
2.2L and 2.4L DuraTorq-TDCi	Cooling system with fuel fired heater and auxiliary heater	13 (2.9)
2.2L and 2.4L DuraTorq-TDCi	Cooling system with auxiliary heater	12.8 (2.9)
2.2L and 2.4L DuraTorq-TDCi	Cooling system with fuel fired heater	11.5 (2.5)
2.2L and 2.4L DuraTorq-TDCi	Cooling system with front heater only	10 (2.2)
3.2L DuraTorq-TDCi	Engine oil – with filter	12.6 (2.8)

# Maintenance

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Variant	Item	Capacity in litres (gallons)
3.2L DuraTorq-TDCi	Engine oil – without filter	12 (2.6)
3.2L DuraTorq-TDCi	Cooling system	7.3 (1.6)

## Engine oil top up capacities


Engine	litres
2.2L DuraTorq-TDCi	1.5
2.3L Duratec-HE	0.7
2.4L DuraTorq-TDCi	2
3.2L DuraTorq-TDCi	Information not available

# Vehicle care

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## CLEANING THE EXTERIOR

### WARNING

 If you use a car wash with a waxing cycle, make sure that you remove the wax from the windscreen.

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### CAUTIONS

-  Some car wash installations use water at high pressure. This could damage certain parts of your vehicle.
  -  Remove the aerial before using an automatic car wash.
  -  Switch the heater blower off to prevent contamination of the fresh air filter.
- 

We recommend that you wash your vehicle with a sponge and lukewarm water containing a car shampoo.


## Cleaning the headlamps

### CAUTIONS

-  Do not scrape the headlamp lenses or use abrasives or chemical solvents to clean them.
  -  Do not wipe the headlamps when they are dry.
- 

## Cleaning the rear window


### CAUTION

-  Do not scrape the inside of the rear window or use abrasives or chemical solvents to clean it.
- 

Use a clean, lint free cloth or a damp chamois leather to clean the inside of the rear window.




## Cleaning the chrome trim

### CAUTION

-  Do not use abrasives or chemical solvents. Use soapy water.
- 

## Body paintwork preservation

### CAUTIONS

-  Do not polish your vehicle in strong sunshine.
  -  Do not allow polish to touch plastic surfaces. It could be difficult to remove.
  -  Do not apply polish to the windscreen or rear window. This could cause the wipers to become noisy and they may not clear the window properly.
- 

We recommend that you wax the paintwork once or twice a year.

## CLEANING THE INTERIOR

### Seat belts

#### WARNINGS



Do not use abrasives, or chemical solvents to clean them.



Do not allow moisture to penetrate the seat belt retractor mechanism.

---

Clean the seat belts with interior cleaner or water applied with a soft sponge. Let the seat belts dry naturally, away from artificial heat.

## REPAIRING MINOR PAINT DAMAGE

#### CAUTION



Remove apparently harmless looking substances from the paintwork immediately (e.g. bird droppings, tree resins, insect remains, tar spots, road salt and industrial fall out).

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You should repair paintwork damage caused by stones from the road or minor scratches as soon as possible. A choice of products is available from your Ford Dealer. Read and follow the manufacturer's instructions.

# Vehicle battery

## BATTERY CARE

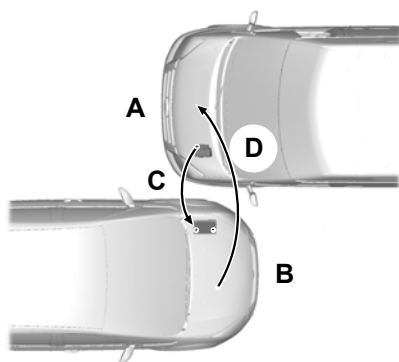
The battery requires very little maintenance. The fluid level is checked regularly during the routine service inspections.

## USING BOOSTER CABLES

### CAUTIONS

- ⚠ Connect batteries with only the same nominal voltage.
- ⚠ Always use booster cables with insulated clamps and adequate size cable.
- ⚠ Do not disconnect the battery from the vehicle's electrical system.

## To connect the booster cables



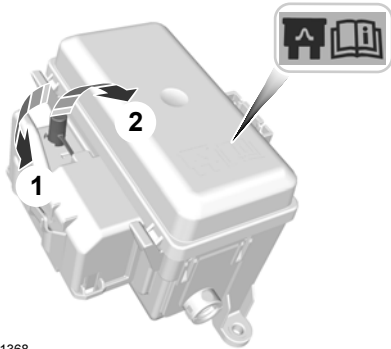
E71367

- A Flat battery vehicle
- B Booster battery vehicle
- C Positive connection cable
- D Negative connection cable

1. Position the vehicles so that they do not touch one another.
2. Switch off the engine and any electrical equipment.
3. Lift up the battery plus connection cover. See **Maintenance** (page 129).
4. Connect the positive (+) terminal of the battery plus connection on vehicle **A** with the positive (+) terminal of vehicle **B** (cable **C**).

# Vehicle battery

5. Connect the negative (-) terminal to the engine block or the engine mount of vehicle **B**. Connect the other end to the engine block or the engine mount of vehicle **A** (cable **D**).



E71368

## CAUTIONS

- ! Do not connect to the negative (-) terminal of the flat battery.
- ! Make sure that the jump leads are clear of any moving parts.

## To start the engine

1. Run the engine of vehicle **B** at moderately high speed.
2. Start the engine of vehicle **A**.
3. Run both vehicles for a minimum of three minutes before disconnecting the leads.

## CAUTION

- ! Do not switch on the headlamps when disconnecting the cables. The peak voltage could blow the bulbs.

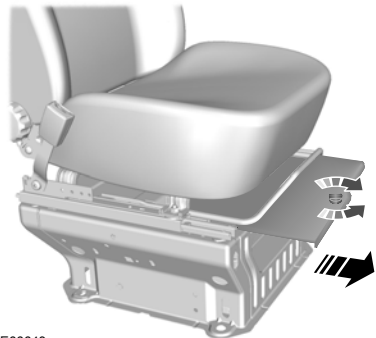
Disconnect the cables in the reverse order.

## CHANGING THE VEHICLE BATTERY

## CAUTION

- ! Make sure the battery box is correctly sealed.

**Note:** The battery is located inside the vehicle under the driver's seat.



E66643

1. Remove the battery cover.
2. Turn the safety pin anti-clockwise and take it out.
3. Slide the cover off the front of the battery.

Install in the reverse order.

# Vehicle battery

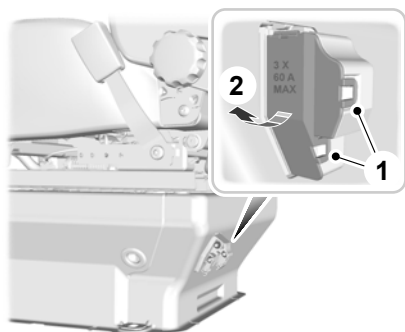
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If the battery has been disconnected the vehicle may exhibit some unusual driving characteristics for approximately 8 km (5 miles) after battery reconnection while the engine management system realigns itself with the engine.

1. Release the clips.
2. Raise the cover.

Where applicable, the audio system must be reprogrammed with the keycode.

## BATTERY CONNECTION POINTS



E75702

### CAUTION

**!** Do not connect any electrical items directly to the vehicle batteries.

There are three connection points available, each provides a maximum of 60A current. Ask your dealer for advice on accessories suitable for your vehicle.




# Child safety


## CHILD SEATS



E68916

### WARNINGS


 Secure children that are less than 150 centimetres tall or less than 12 years of age in a suitable, approved child restraint, in the rear seat.

 Original text according to ECE R94.01: Extreme Hazard! Do not use a rearward facing child restraint on a seat protected by an air bag in front of it!

 Read and follow the manufacturer's instructions when you are fitting a child restraint.

 Do not modify child restraints in any way.

 Do not hold a child on your lap when the vehicle is moving.

 Do not leave unattended children in your vehicle.

### WARNINGS

 If your vehicle has been involved in an accident, have the child restraints checked by properly trained technicians.

**Note:** *Mandatory use of child restraints varies from country to country.*

A choice of ECE approved child restraints which have been specifically tested and approved for your vehicle are available from your Dealer.

### Child restraints for different mass groups

Use the correct child restraint as follows:

#### Baby safety seat



E68918

Secure children that weigh less than 13 kilogrammes in a rearward facing baby safety seat in the rear seat.

# Child safety

## Child safety seat



E68920

Secure children that weigh between 13 and 18 kilogrammes in a child safety seat in the rear seat.

## CHILD SEAT POSITIONING

### Child seat positions

Seating positions	Mass group categories				
	0	0+	1	2	3
	Up to 10 kg	Up to 13 kg	9 - 18 kg	15 - 25 kg	22 - 36 kg
	Baby safety seat	Baby safety seat	Child safety seat	Booster seat or cushion	Booster seat or cushion
Front passenger seat with airbag	X	X	X	X	X
Front passenger seat without airbag	U <sup>1</sup>	U <sup>1</sup>	U <sup>1</sup>	U <sup>1</sup>	U <sup>1</sup>
Rear seats	U	U	U	U	U
Rear ISOFIX 2nd row	IU	IU	IU	X	X
ISOFIX size class*	E	C, D, E	A, B, B1, C, D	X	X

**X** Not suitable for children in this mass group.

# Child safety

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**U** Suitable for universal category child restraints approved for use in this mass group.

**IU** Suitable for universal category ISOFIX child restraints approved for use in this mass group.


**U<sup>1</sup>** Suitable for universal category child restraints approved for use in this mass group.


\* As defined by ECE 16.


# Child safety


## BOOSTER CUSHIONS


### WARNINGS


 Do not install a booster seat or a booster cushion with only the lap strap of the seat belt.

 Do not install a booster seat or a booster cushion with a seat belt that is slack or twisted.

 Do not put the seat belt under your child's arm or behind its back.

 Do not use pillows, books or towels to boost your child's height.

 Make sure that your children sit in an upright position.

 Secure children that weigh more than 15 kilogrammes but are less than 150 centimetres tall in a booster seat or a booster cushion.

We recommend that you use a booster seat that combines a cushion with a backrest instead of a booster cushion only. The raised seating position will allow you to position the shoulder strap of the adult seat belt over the centre of your child's shoulder and the lap strap tightly across its hips.

### Booster cushion



E68924

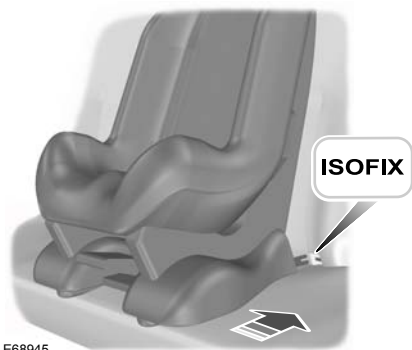
### Booster seat



E70710


# Child safety

## ISOFIX ANCHOR POINTS



E68945

### WARNING

 Use an anti-rotation device when using the ISOFIX system. We recommend that you use a top tether or a support leg.

**Note:** When you are purchasing an ISOFIX restraint, make sure that you know the correct mass group and ISOFIX size class for the intended seating locations. See **Child seat positioning** (page 148).

Your vehicle is fitted with ISOFIX anchor points that accommodate universally approved ISOFIX child restraints.


The ISOFIX system comprises two rigid attachment arms on the child restraint that attach to anchor points on the 2nd row seats, where the cushion and backrest meet. Tether anchor points are fitted to the rear of the 2nd row seats for child restraints with a top tether.

## Attaching a child restraint with a top tether



E68946

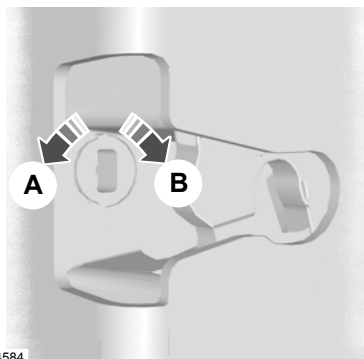
### WARNING

 Do not attach a tether strap to anything other than the correct tether anchor point.

# Child safety

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## CHILD SAFETY LOCKS



E74584

A On

B Off

### **WARNING**



You cannot open the doors from the inside if you have put the child safety locks on.

---

# Wheels and tyres

## GENERAL INFORMATION

Set the pressure for your spare tyre to the highest value given for your vehicle and tyre size combination.

Data about tyres, rims and tyre pressures for special vehicle model variants is only given on the tyre pressure decal on these vehicles.

A decal with tyre pressure data is located in the driver's door opening at the B-pillar.

## CHANGING A ROAD WHEEL

### Spare wheel

#### CAUTION



Use only approved wheel and tyre sizes. Using other sizes could damage the vehicle and will make the National Type Approval invalid.

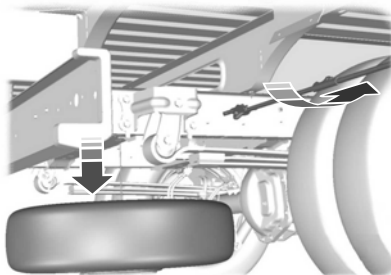
The spare wheel is located underneath the rear of the vehicle.

### Single rear wheel vehicles



E70947

### Double rear wheel vehicles

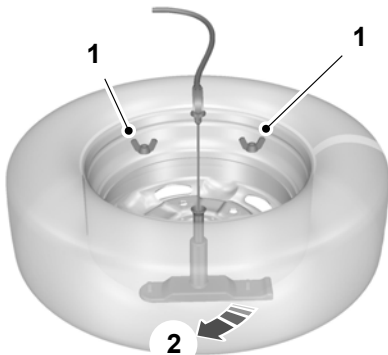


E70948

If your vehicle has a security bolt, remove it by turning anti-clockwise.

Fully insert the flat end of the wheel brace (Bus, Van and Kombi) or the short arm of the jack handle (Chassis cab and Flatbed truck) into the guide hole. Turn anti-clockwise until the wheel rests on the ground, and there is slack in the cable.

# Wheels and tyres



E70949

1. Remove the wing nut(s).
2. Pass the bracket and cable through the wheel opening.

## Vehicle jack

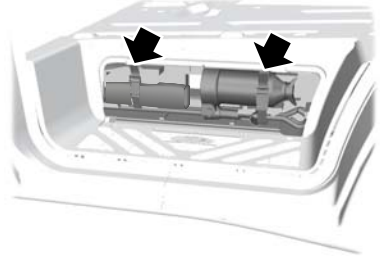
### CAUTION

⚠ Use only the specified jacking points. Positioning at other points may damage the body, steering, suspension, engine, braking system or fuel lines.

The jack, wheel brace and jack handle are located in a storage compartment in the front right stepwell.

## 430 series vehicles

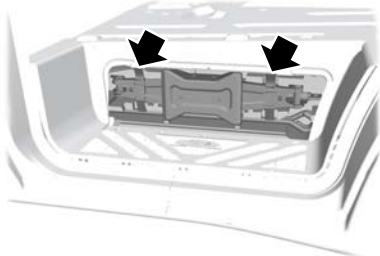
### Hydraulic jack



E74102

## All except 430 series vehicles

### Scissor jack



E70950

## Front jacking points

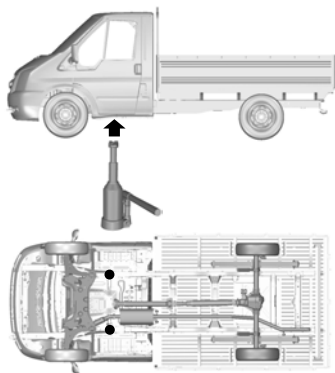
### CAUTION

⚠ Make sure that when positioning the jack, on a vehicle fitted with rear air conditioning (A/C), that it does not come in contact with the A/C lines or the fuel tank support strap.



# Wheels and tyres

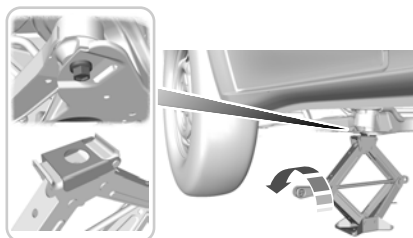
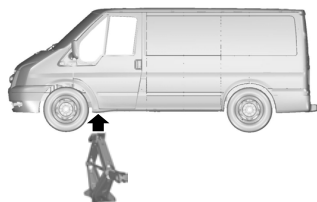
## 430 series vehicles



E70951

Position the jack under the protrusions at the rear of the sub-frame.

## All except 430 series vehicles



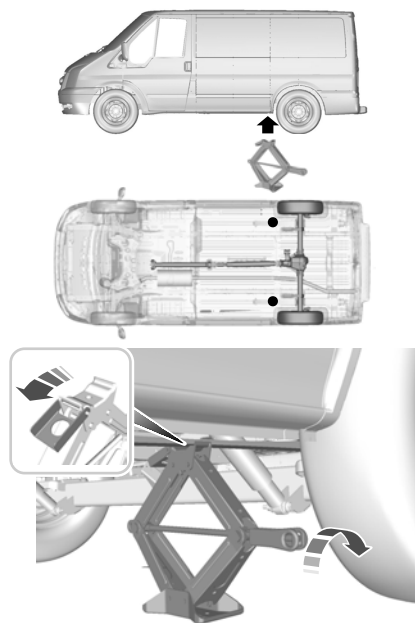
E70952

Close the flap on the top of the jack (storage position). The front sub-frame rear bolts fit into a recess on the flap of the jack.

# Wheels and tyres

## Rear jacking points

**Front-wheel drive Bus, Van and Kombi (260, 280 and 300 series vehicles)**

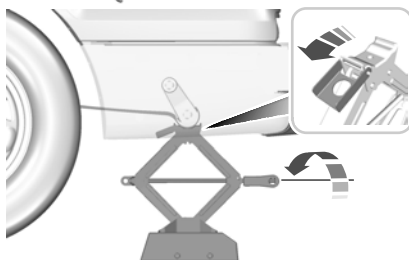
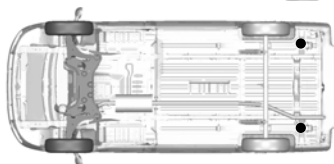
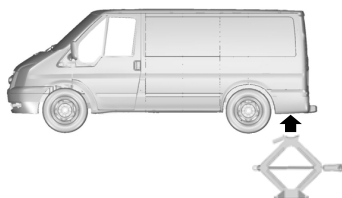


E70953

Open the flap on top of the jack. Position under the rear leaf spring directly in front of the rear wheel.

**Front-wheel drive Bus, Van and Kombi (330 and 350 series vehicles)**

**Note:** An additional block is located inside the spare wheel.



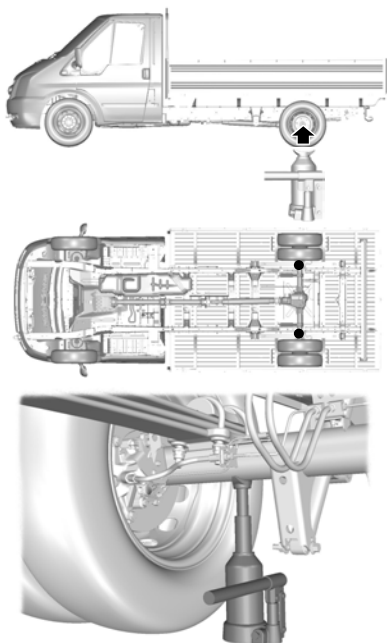
E70954

Open the flap on top of the jack. Place the jack onto the block.

## 430 series vehicles

**Note:** Position the jack under the axle, as near the wheel being jacked as possible.

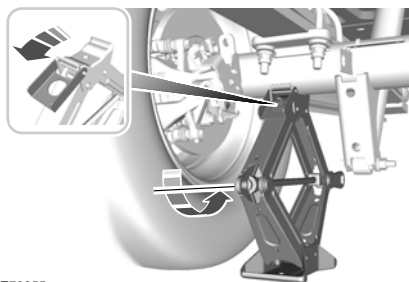
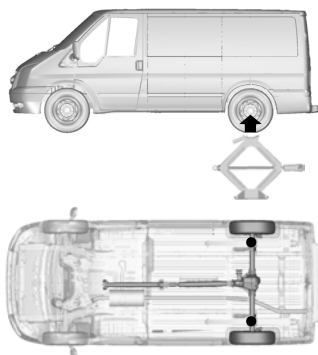
# Wheels and tyres



E74136

## All Chassis Cab and all rear-wheel drive Bus, Van and Kombi (All except 430 series vehicles)

**Note:** Position the jack under the axle, as near the wheel being jacked as possible.






E70955

Open the flap on the top of the jack.


## Removing a wheel


### WARNINGS


-  Park your vehicle in such a position that neither the traffic nor you are hindered or endangered.
-  Set up a warning triangle.
-  Make sure that the vehicle is on firm, level ground with the wheels pointing straight ahead.


# Wheels and tyres


## WARNINGS

 Switch off the ignition and apply the handbrake. Select first or reverse gear.

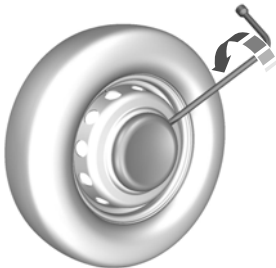
 Have the passengers leave the vehicle.

 Always secure the diagonally opposite wheel with an appropriate block or wheel chock when changing a wheel.

 Make sure that the arrows on directional tyres point in the direction of rotation when the vehicle is moving forwards. If a spare wheel has to be fitted with the arrows pointing in the opposite direction of rotation, have the tyre refitted in the correct direction by a properly trained technician.

 Only use the vehicle jack to change a wheel. Never work underneath the vehicle when it is supported only by the jack.

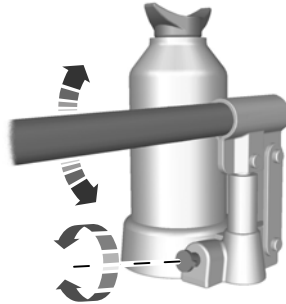
**Note:** Make sure that the jack is vertical to the jacking point and the base is flat on the ground.



E70956

- Remove the hub cover.
- Remove the nut caps.
- Slacken the wheel nuts.

## 430 series vehicles



E70959

- Slide the flat end of the jack handle over the locking valve. Turn the handle fully clockwise. Insert the handle into the pump, and lift the vehicle using a pumping motion.

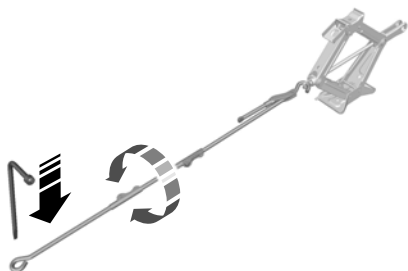
## All except 430 series vehicles



E70957

- Unfold the jack handle.

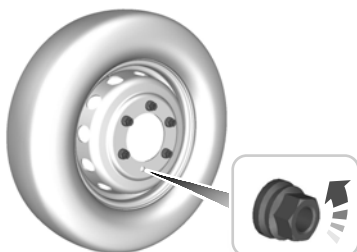
# Wheels and tyres



E70958

- Insert the hook of the handle into the ring on the jack. Insert the wheel brace into the other end of the handle and rotate clockwise.

## All vehicles



E70960

- Jack up the vehicle until the tyre is clear of the ground.
- Unscrew and remove the wheel nuts and take off the wheel.

## Fitting a wheel

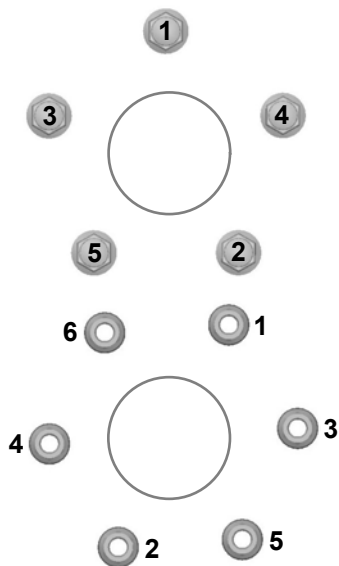
### WARNING



Make sure that there is no lubrication (grease or oil) on the threads or the interface between wheel studs and nuts.

**Note:** The wheel nuts of alloy wheels can also be used for the steel spare wheel.

- Align and fit the wheel onto the wheel studs. Make sure that the flat washers of the wheel nuts are facing the wheel. Screw on the wheel nuts and tighten.
- Lower the vehicle and remove the jack.




E70961

# Wheels and tyres

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- Fully tighten the wheel nuts in the pattern shown.
- Press on the hub cap firmly with the ball of the hand.
- Press on the nut caps firmly.


## WARNING

 Have the tightening torque of the wheel nuts and the tyre pressure checked as soon as possible.

---

## Stowing the wheel

### CAUTION

 Do not raise the spare wheel carrier without the wheel attached. Damage can occur to the winch mechanism if lowered without a wheel attached.

---

**Note:** *Only when the winch mechanism slips is the wheel fully raised.*

- Place the wheel flat on the ground, so the outside of the wheel faces down. Tilt the bracket, and pass it and the cable through the centre opening in the wheel. Tighten the wing nut(s).
- Fully insert the flat end of the wheel brace into the guide hole and turn clockwise. On vehicles with a security bolt, re-install it by turning clockwise.
- Stow the wheel brace, jack, and jack handle away.


## TYRE REPAIR KIT


Your vehicle may not have a spare tyre. In this case it will have an emergency tyre repair kit that can be used to repair **one** flat tyre.


The tyre repair kit is located in the glove box.


## General information

### WARNINGS

 Depending on the type and extent of tyre damage, some tyres can only be partially sealed or not sealed at all. Loss of tyre pressure can affect vehicle handling, leading to loss of vehicle control.

 Do not use the tyre repair kit if the tyre has already been damaged as a result of being driven under inflated.

 Do not try to seal damage other than that located within the visible tread of the tyre.

 Do not try to seal damage to the tyre's sidewall.

---

The tyre repair kit seals most tyre punctures [with a diameter of up to six millimetres (1/4 inch)] to temporarily restore mobility.

Observe the following rules when using the kit:

# Wheels and tyres

- **Drive with caution and avoid making sudden steering or driving manoeuvres**, especially if the vehicle is heavily loaded or you are towing a trailer.
- The kit will provide you with an emergency temporary repair, enabling you to continue your journey to the next vehicle or tyre dealer, or to drive a maximum distance of 200 kilometres (125 miles).
- Do not exceed a **maximum speed of 80 km/h (50 mph)**.
- Keep the kit out of the reach of children.
- Only use the kit when the ambient temperature is between  $-30^{\circ}\text{C}$  ( $-22^{\circ}\text{F}$ ) and  $+70^{\circ}\text{C}$  ( $+158^{\circ}\text{F}$ ).
- Park your vehicle at the roadside so that you do not obstruct the flow of traffic and so that you are able to use the kit without being in danger.
- Apply the parking brake, even if you have parked on a level road, to make sure that the vehicle will not move.
- Do not attempt to remove foreign objects like nails or screws penetrating the tyre.
- Leave the engine running while the kit is in use, but not if the vehicle is in an enclosed or poorly ventilated area (for example, inside a building). In these circumstances, switch the compressor on with the engine turned off.
- Replace the sealant bottle with a new one before the expiry date (see top of bottle) is reached.
- Inform all other users of the vehicle that the tyre has been temporarily sealed with the tyre repair kit and make them aware of the special driving conditions to be observed.

## Using the tyre repair kit

### WARNINGS



Compressed air can act as an explosive or propellant.



Never leave the tyre repair kit unattended while in use.

### CAUTION



Do not keep the compressor operating for more than 10 minutes.

**Note:** Use the tyre repair kit only for the vehicle with which it was supplied.

## Inflating the tyre

### WARNINGS



Check the sidewall of the tyre prior to inflation. If there are any cracks, bumps or similar damage, do not attempt to inflate the tyre.



Do not stand directly beside the tyre while the compressor is pumping.

# Wheels and tyres

---

## WARNINGS



Watch the sidewall of the tyre. If any cracks, bumps or similar damage appear, turn off the compressor and let the air out by means of the pressure relief valve **B**. Do not continue driving with this tyre.



The sealant contains natural rubber latex. Avoid contact with skin and clothing. If this happens, rinse the affected areas immediately with plenty of water and contact your doctor.

## WARNINGS



If the tyre inflation pressure does not reach 1.8 bar (26 psi) within seven minutes, the tyre may have suffered excessive damage, making a temporary repair impossible. In this case, do not continue driving with this tyre.

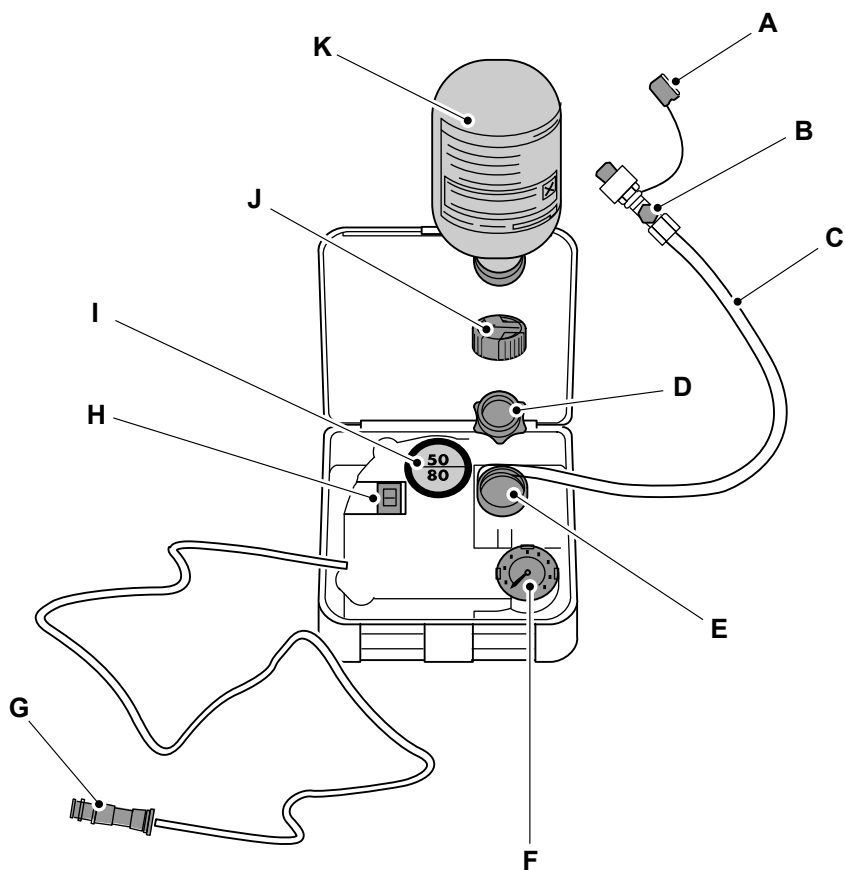
## CAUTION



Screwing the bottle onto the bottle holder will pierce the seal of the bottle. Do not unscrew the bottle from the holder as the sealant will escape.



# Wheels and tyres



E94973

- A Protective cap
- B Pressure relief valve
- C Hose
- D Orange cap

# Wheels and tyres

---

- E Bottle holder
- F Pressure gauge
- G Power plug with cable
- H Compressor switch
- I Label
- J Bottle lid
- K Sealant bottle

1. Open the lid of the tyre repair kit.
2. Peel off the label **I** showing the maximum permissible speed of 80 km/h (50 mph) from the casing and attach it to the instrument panel in the driver's field of view. Make sure the label does not obscure anything important.
3. Take the hose **C** and the power plug with cable **G** out of the kit.
4. Unscrew the orange cap **D** and the bottle lid **J**.
5. Screw the sealant bottle **K** clockwise into the bottle holder **E** fully tight.
6. Remove the valve cap from the damaged tyre.
7. Detach the protective cap **A** from the hose **C** and screw the hose **C** firmly onto the valve of the damaged tyre.
8. Make sure that the compressor switch **H** is in position **O**.
9. Insert the power plug **G** into the cigar lighter socket or auxiliary power socket. See **Cigar lighter** (page 80). See **Auxiliary power sockets** (page 81).
10. Start the engine.
11. Move the compressor switch **H** to position **1**.
12. Inflate the tyre for no longer than seven minutes to an inflation pressure of minimum 1.8 bar (26 psi) and a maximum of 3.5 bar (51 psi). Move the compressor switch **H** to position **O** and check the current tyre pressure with pressure gauge **F**.
13. Remove the power plug **G** from the cigar lighter socket or auxiliary power socket.
14. Quickly unscrew the hose **C** from the tyre valve and replace the protective cap **A**. Fasten the valve cap again.
15. Leave the sealant bottle **K** in the bottle holder **E**.
16. Make sure the kit, the bottle lid and the orange cap are stored safely, but still easily accessible in the vehicle. The kit will be required again when you check the tyre pressure.

# Wheels and tyres

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17. Immediately drive approximately three kilometres (two miles) so that the sealant can seal the damaged area.

**Note:** When pumping in the sealant through the tyre valve, the pressure may rise up to 6 bar (87 psi) but will drop again after about 30 seconds.

## WARNING



If you experience heavy vibrations, unsteady steering behaviour or noises while driving, reduce your speed and drive with caution to a place where it is safe for you to stop the vehicle. Recheck the tyre and its pressure. If the tyre pressure is less than 1.3 bar (19 psi) or if there are any cracks, bumps or similar damage visible, do not continue driving with this tyre.

## Checking the tyre pressure

1. Stop the vehicle after driving approximately three kilometres (two miles). Check, and where necessary, adjust the pressure of the damaged tyre.
2. Attach the kit and read the tyre pressure from the pressure gauge **F**.
3. If the pressure of the sealant-filled tyre is 1.3 bar (19 psi) or more, adjust it to the specified pressure. See **Technical specifications** (page 167).
4. Follow the inflation procedure once again to top up the tyre.

5. Check the tyre pressure again from the pressure gauge **F**. If the tyre pressure is too high, deflate the tyre to the specified pressure using the pressure relief valve **B**.
6. Once you have inflated the tyre to its correct tyre pressure, move the compressor switch **H** to position **O**, remove the power plug **G** from the socket, unscrew the hose **C**, fasten the valve cap and replace the protective cap **A**.
7. Leave the sealant bottle **K** in the bottle holder **E** and store the kit away safely in its original location.
8. Drive to the nearest tyre specialist to get the damaged tyre replaced. Before the tyre is removed from the rim, inform your tyre dealer that the tyre contains sealant. Renew the kit as soon as possible after it has been used once.

**Note:** Remember that emergency roadside tyre repair kits only provide temporary mobility. Regulations concerning tyre repair after usage of tyre repair kit may differ from country to country. You should consult a tyre specialist for advice.

## WARNING

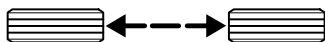


Before driving, make sure the tyre is adjusted to the recommended inflation pressure. See **Technical specifications** (page 167). Monitor the tyre pressure until the sealed tyre is replaced.

# Wheels and tyres

Empty sealant bottles can be disposed of together with normal household waste. Return remains of sealant to your dealer or dispose of it in compliance with local waste disposal regulations.

## TYRE CARE



E70415

To make sure the front and rear tyres of your vehicle wear evenly and last longer, we recommend that you swap the tyres from front to rear and vice versa at regular intervals of 15 000 to 20 000 km (9 000 to 12 000 miles).

### CAUTION

! Do not scrub the sidewalls of the tyres when you are parking.

If you have to mount a kerb, do so slowly and approach it with the wheels at right-angles to the kerb.

Examine the tyres regularly for cuts, foreign objects and uneven wear of the tread. Uneven wear could mean that the wheel alignment is outside specification.

## USING WINTER TYRES

### CAUTION

! Make sure that you use the correct wheel nuts for the type of wheel the winter tyres are fitted to.

If winter tyres are used, make sure that the tyre pressures are correct. See **Technical specifications** (page 167).

## USING SNOW CHAINS

### All vehicles

### WARNINGS

- ! Do not exceed 50 km/h (30 mph).
- ! Do not use snow chains on snow-free roads.

### CAUTION

! If your vehicle is fitted with wheel trims, remove them before fitting snow chains.

**Note:** *The ABS will continue to operate normally.*

Only use small link snow chains.

Only use snow chains on the driven wheels.

### Front wheel drive vehicles

**Note:** *195/75 R 16 C tyres are only covered in the vehicle registration documents for use on the front axle.*

# Wheels and tyres

If your vehicle is fitted with 215/75 R 16 C tyres, fit 195/75 R 16 C (M+S) tyres to the front wheels. Inflate the tyres to the maximum pressure permissible.

## TECHNICAL SPECIFICATIONS

### Tyre pressures (cold tyres)

#### Bus

#### Tyre pressures

Variant	Tyre size	Normal load		Full load	
		Front	Rear	Front	Rear
		bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )
280	185/75 R 16 C	3 (43)	3 (43)	3.7 (54)	4.1 (59)
280	195/70 R 15 C	3 (43)	3 (43)	3.6 (52)	3.9 (57)
280	205/65 R 16 C	2.8 (41)	2.8 (41)	3.4 (49)	3.7 (54)
350	215/75 R 16 C	3.7 (54)	4.7 (68)	3.7 (54)	4.7 (68)
410	185/75 R 16 C	4.7 (68)	4.1 (59)	4.7 (68)	4.1 (59)

#### Van and Kombi - Rear wheel drive

#### Tyre pressures

Variant	Tyre size	Normal load		Full load	
		Front	Rear	Front	Rear
		bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )
300	205/75 R 16 C	3.5 (51)	4.2 (61)	3.5 (51)	4.2 (61)

# Wheels and tyres

Variant	Tyre size	Normal load		Full load	
		Front	Rear	Front	Rear
		bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )
330	215/75 R 16 C	3.4 (49)	4.5 (65)	3.4 (49)	4.5 (65)
350	215/75 R 16 C	3.8 (55)	4.7 (68)	3.8 (55)	4.7 (68)
430	185/75 R 16 C	4.5 (65)	3.3 (48)	4.5 (65)	4.1 (59)
430	195/75 R 16 C	4.6 (67)	3.7 (54)	4.6 (67)	3.7 (54)
460	185/75 R 16 C	4.7 (68)	4.75 (69)	4.7 (68)	4.75 (69)
460	195/75 R 16 C	4.6 (67)	4.3 (62)	4.6 (67)	4.3 (62)

## Van and Kombi - Front wheel drive

### Tyre pressures

Variant	Tyre size	Normal load		Full load	
		Front	Rear	Front	Rear
		bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )
260	195/70 R 15 C	3.3 (48)	3.3 (48)	3.4 (49)	3.5 (51)
260	205/65 R 16 C	3.3 (48)	3.3 (48)	3.4 (49)	3.5 (51)
280	195/70 R 15 C	3.6 (52)	4.2 (61)	3.7 (54)	4.2 (61)
280	205/65 R 16 C	3.4 (49)	3.5 (51)	3.6 (52)	4 (58)
300	195/70 R 15 C	3.9 (57)	4.2 (61)	4 (58)	4.5 (65)
300	205/65 R 16 C	3.8 (55)	4 (58)	3.9 (57)	4.3 (62)
330	215/75 R 16 C	3.4 (49)	4.5 (65)	3.4 (49)	4.5 (65)
350	215/75 R 16 C	3.5 (51)	4.7 (68)	3.5 (51)	4.7 (68)

# Wheels and tyres

Variant	Tyre size	Normal load		Full load	
		Front	Rear	Front	Rear
		bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )
SportVan	235/45 R18 98LI (XL)	2.8 (41)	2.9 (42)	2.8 (40)	2.9 (42)

## Chassis cab and Flatbed truck - Rear wheel drive

### Tyre pressures

Variant	Tyre size	Normal load		Full load	
		Front	Rear	Front	Rear
		bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )
300	205/75 R16 C	3.5 (51)	4.2 (61)	3.5 (51)	4.2 (61)
330	215/75 R16 C	3.4 (49)	4.5 (65)	3.4 (49)	4.5 (65)
350	185/75 R16 C	4.7 (68)	3.3 (48)	4.7 (68)	3.3 (48)
350	195/75 R16 C	4.6 (67)	3.3 (48)	4.6 (67)	3.3 (48)
350	215/75 R16 C	3.5 (51)	4.7 (68)	3.5 (51)	4.7 (68)
430	185/75 R16 C	4.7 (68)	4.1 (59)	4.7 (68)	4.1 (59)
430	195/75 R16 C	4.6 (67)	3.7 (54)	4.6 (67)	3.7 (54)
460	185/75 R16 C	4.7 (68)	4.75 (69)	4.7 (68)	4.75 (69)
460	195/75 R16 C	4.6 (67)	4.3 (62)	4.6 (67)	4.3 (62)

# Wheels and tyres

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## Chassis cab and Flatbed truck - Front wheel drive

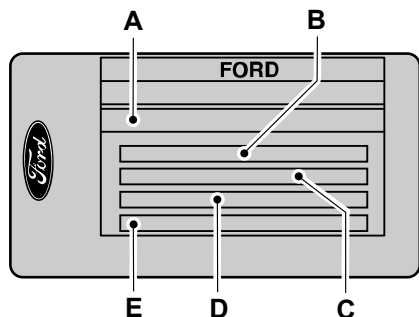
### Tyre pressures

Variant	Tyre size	Normal load		Full load	
		Front	Rear	Front	Rear
		bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )
300	195/70 R 15 C	4 (58)	4.5 (65)	4 (58)	4.5 (65)
300	205/65 R 16 C	3.8 (55)	4.3 (62)	3.8 (55)	4.3 (62)
330	215/75 R 16 C	3.4 (49)	4.5 (65)	3.4 (49)	4.5 (65)
350	215/75 R 16 C	3.5 (51)	4.7 (68)	3.5 (51)	4.7 (68)



# Vehicle identification

## VEHICLE IDENTIFICATION PLATE



E85610

- A Vehicle identification number
- B Gross vehicle weight
- C Gross train weight
- D Maximum front axle weight
- E Maximum rear axle weight

The vehicle identification number and maximum weights are shown on a plate located on the lock side of the passenger door aperture at the bottom.

## VEHICLE IDENTIFICATION NUMBER (VIN)



E71369

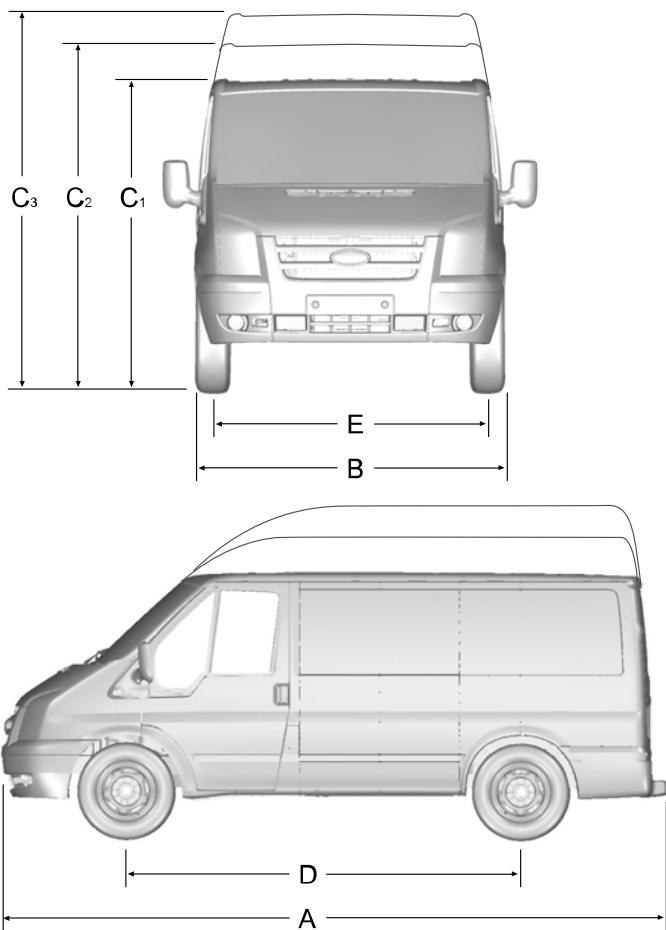
The vehicle identification number is stamped into the right-hand front wheelhouse. It is also shown on the left-hand side of the instrument panel.

# Technical specifications

## TECHNICAL SPECIFICATIONS

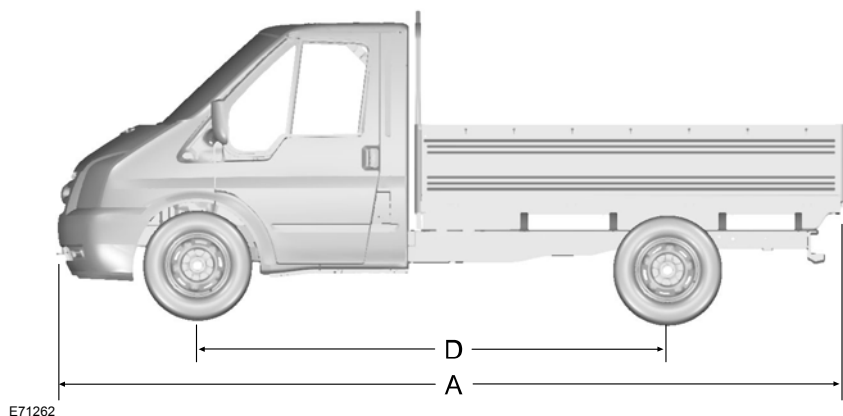
### Vehicle dimensions

#### Short wheelbase



E71261

# Technical specifications



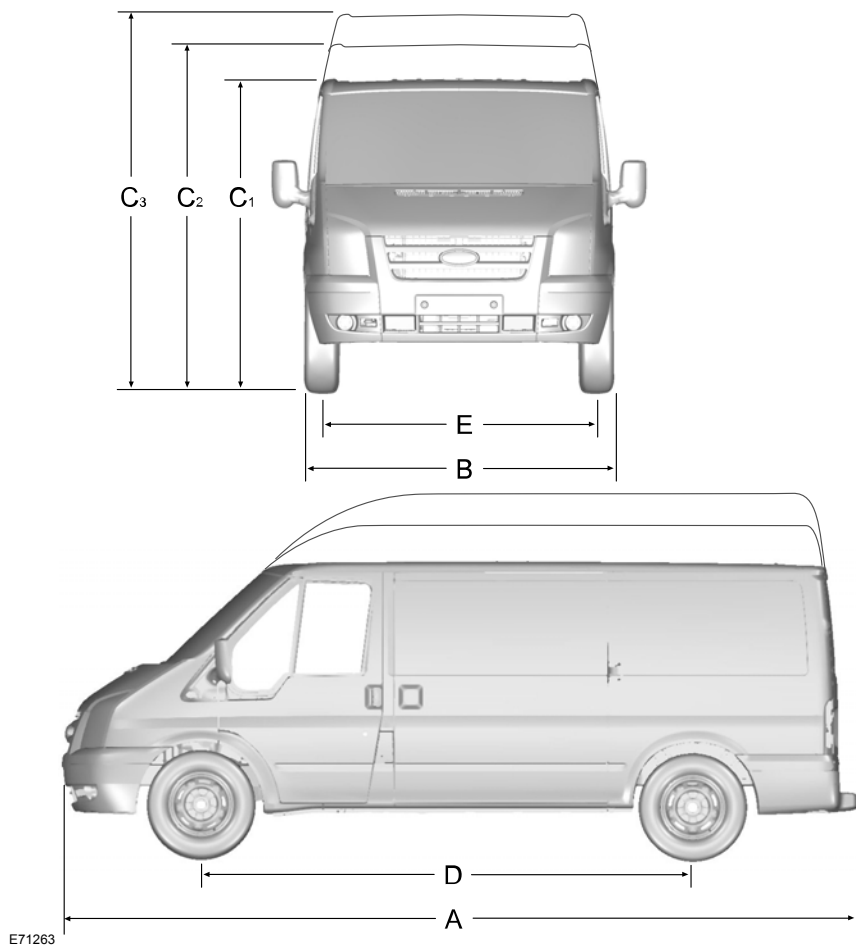
Item	Dimension description	Dimension in mm (inches)
A	Maximum length - without rear step (Van and Kombi)	4863 (191.5)
A	Maximum length - without rear step (Chassis cab and Flatbed truck without flatbed)	5114 (201.3)
A	Maximum length - without rear step (Chassis cab and Flatbed truck with flatbed)	5258 (207)
A	Maximum length - with rear step (Van and Kombi)	4965 (195.5)
A	Maximum length - with towing equipment (Van and Kombi)	5006 (197.1)
A	Maximum length - with towing equipment (Chassis cab and Flatbed truck without flatbed)	5249 (206.7)
A	Maximum length - with towing equipment (Chassis cab and Flatbed truck with flatbed)	5258 (207)
B	Overall width - excl. exterior mirrors (Van and Kombi)	1974 (77.7)

# Technical specifications

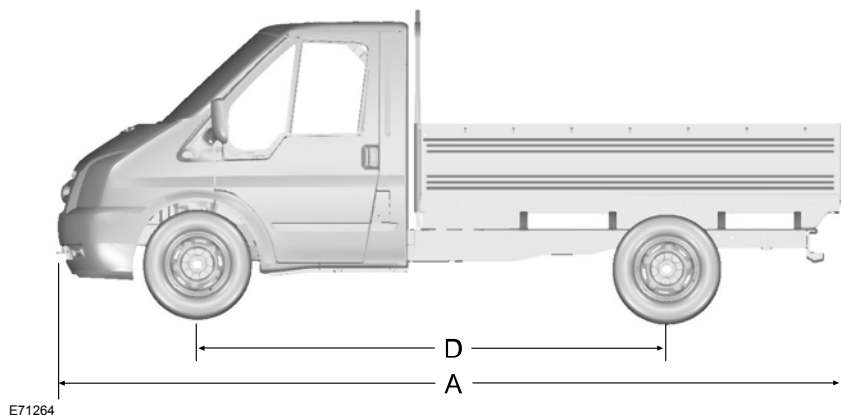
Item	Dimension description	Dimension in mm (inches)
B	Overall width - excl. exterior mirrors (Chassis cab and Flatbed truck - Narrow float)	2007 (79)
B	Overall width - excl. exterior mirrors (Chassis cab and Flatbed truck - Wide float)	2207 (86.9)
C1	Overall height - Low roof (Van and Kombi)	1997 - 2089 (78.6 - 82.2)
C1	Overall height - Low roof (Chassis cab and Flatbed truck)	1974 - 2035 (77.7 - 80.1)
C2	Overall height - Semi high roof (Van and Kombi)	2313 - 2405 (91.1 - 94.7)
C3	Overall height - Extra high roof	-
D	Wheelbase (Van and Kombi)	2933 (115.5)
D	Wheelbase (Chassis cab and Flatbed truck)	3137 (123.5)
E	Track - Front	1737 - 1745 (68.4 - 68.7)
E	Track - Rear	1700 - 1718 (66.9 - 67.6)

# Technical specifications

## Medium wheelbase



# Technical specifications



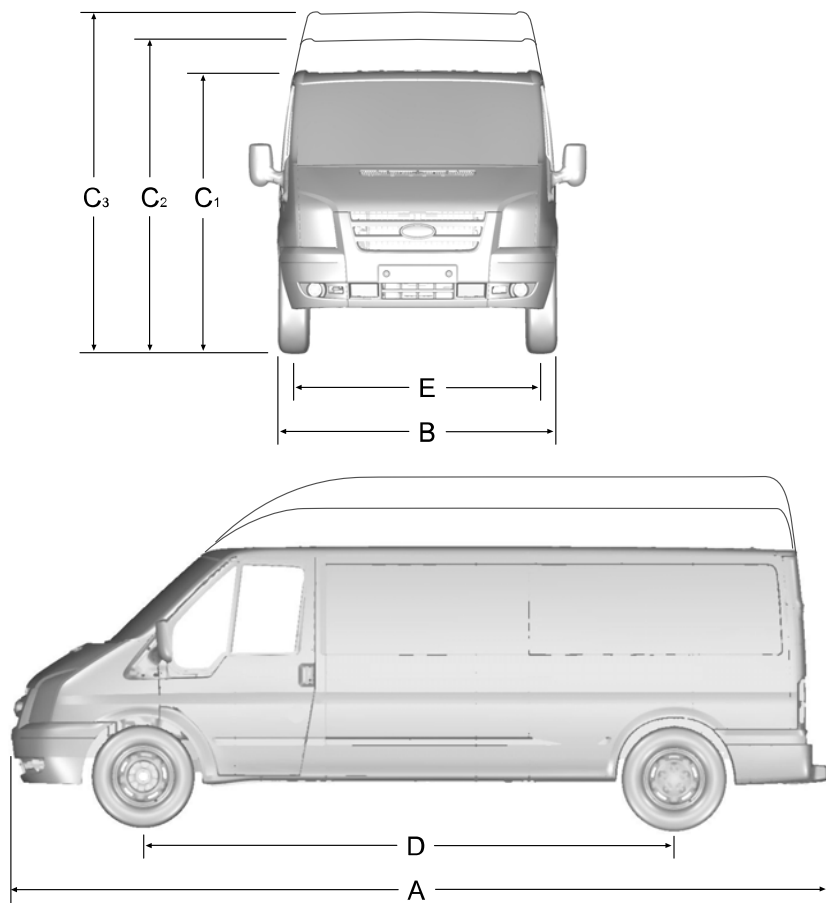
Item	Dimension description	Dimension in mm (inches)
A	Maximum length - without rear step (Van and Kombi)	5230 (205.9)
A	Maximum length - without rear step (Chassis cab and Flatbed truck without flatbed)	5481 (215.8)
A	Maximum length - without rear step (Chassis cab and Flatbed truck with flatbed)	5708 (224.7)
A	Maximum length - with rear step (Van and Kombi)	5332 (209.9)
A	Maximum length - with towing equipment (Van and Kombi)	5373 (211.5)
A	Maximum length - with towing equipment (Chassis cab and Flatbed truck without flatbed)	5616 (221.1)
A	Maximum length - with towing equipment (Chassis cab and Flatbed truck with flatbed)	5708 (224.7)
B	Overall width - excl. exterior mirrors (Van and Kombi)	1974 (77.7)

# Technical specifications

Item	Dimension description	Dimension in mm (inches)
B	Overall width - excl. exterior mirrors (Chassis cab and Flatbed truck - Narrow float)	2007 (79)
B	Overall width - excl. exterior mirrors (Chassis cab and Flatbed truck - Wide float)	2207 (86.9)
C1	Overall height - Low roof (Van and Kombi)	1995 - 2056 (78.6 - 80.9)
C1	Overall height - Low roof (Chassis cab and Flatbed truck)	1969 - 2042 (77.5 - 80.4)
C2	Overall height - Semi high roof (Van and Kombi)	2310 - 2387 (90.9 - 94)
C3	Overall height - Extra high roof (Van and Kombi)	2546 - 2617 (100.2 - 103)
D	Wheelbase (Van and Kombi)	3300 (129.9)
D	Wheelbase (Chassis cab and Flatbed truck)	3504 (138)
E	Track - Front	1737 - 1745 (68.4 - 68.7)
E	Track - Rear (All with single rear wheels)	1700 - 1718 (66.9 - 67.6)
E	Track - Rear (Chassis cab and Flatbed truck - double rear wheels)	1642 (64.6)

# Technical specifications

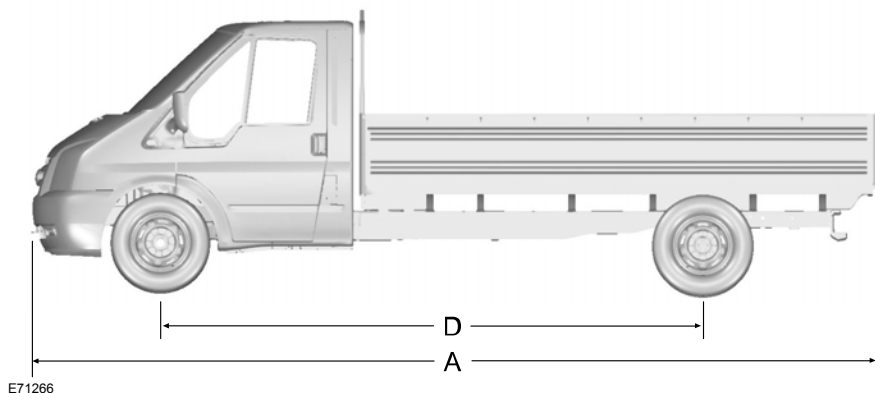
## Long wheelbase



E71265



# Technical specifications



Item	Dimension description	Dimension in mm (inches)
A	Maximum length - without rear step (Van and Kombi)	5680 (223.6)
A	Maximum length - without rear step (Extended Frame Van and Kombi)	6403 (252.1)
A	Maximum length - without rear step (Chassis cab and Flatbed truck without flatbed)	5931 (233.5)
A	Maximum length - without rear step (Chassis cab and Flatbed truck without flatbed) extended frame	6313 (248.6)
A	Maximum length - without rear step (Chassis cab and Flatbed truck with flatbed)	6108 (240.5)
A	Maximum length - without rear step (Chassis cab and Flatbed truck with flatbed) extended frame	6608 (260.2)
A	Maximum length - with rear step (Van and Kombi)	5782 (227.6)
A	Maximum length - with rear step (Extended Frame Van and Kombi)	6505 (256.1)

# Technical specifications

Item	Dimension description	Dimension in mm (inches)
A	Maximum length - with towing equipment (Van and Kombi)	5823 (229.3)
A	Maximum length - with towing equipment (Extended Frame Van and Kombi)	6546 (257.7)
A	Maximum length - with towing equipment (Chassis cab and Flatbed truck without flatbed)	6066 (238.8)
A	Maximum length - with towing equipment (Chassis cab and Flatbed truck without flatbed) extended frame	6448 (253.9)
A	Maximum length - with towing equipment (Chassis cab and Flatbed truck with flatbed)	6108 (240.5)
A	Maximum length - with towing equipment (Chassis cab and Flatbed truck with flatbed) extended frame	6608 (260.2)
B	Overall width - excl. exterior mirrors (Van and Kombi)	1974 (77.7)
B	Overall width - excl. exterior mirrors (Chassis cab and Flatbed truck - Narrow float)	2007 (79)
B	Overall width - excl. exterior mirrors (Chassis cab and Flatbed truck - Wide float)	2207 (86.9)
C1	Overall height - Low roof (Chassis cab and Flatbed truck)	2016 - 2031 (79.4 - 80)
C2	Overall height - Semi high roof (Van and Kombi)	2326 - 2397 (91.6 - 94.4)
C2	Overall height - Semi high roof (Extended Frame Van and Kombi)	2608 - 2622 (102.7 - 103.2)
C3	Overall height - Extra high roof (Van and Kombi)	2543 - 2615 (100.1 - 103)
D	Wheelbase (Van and Kombi)	3750 (147.6)

# Technical specifications

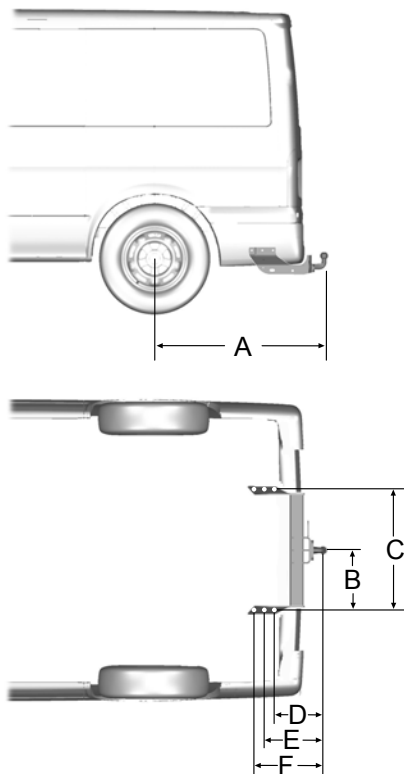
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Item	Dimension description	Dimension in mm (inches)
D	Wheelbase (Chassis cab and Flatbed truck)	3954 (155.7)
E	Track - Front	1737 - 1745 (68.4 - 68.7)
E	Track - Rear (Van and Kombi)	1700 - 1718 (66.9 - 67.6)
E	Track - Rear (Chassis cab and Flatbed truck - double rear wheels)	1642 (64.6)

# Technical specifications

## Towing equipment dimensions

### Van and Kombi



E71267

Item	Dimension description	Dimension in mm (inches)
A	Wheel centre - end of towball (Standard Frame)	1140 (44.9)
A	Wheel centre - end of towball (Extended Frame)	1863 (73.3)

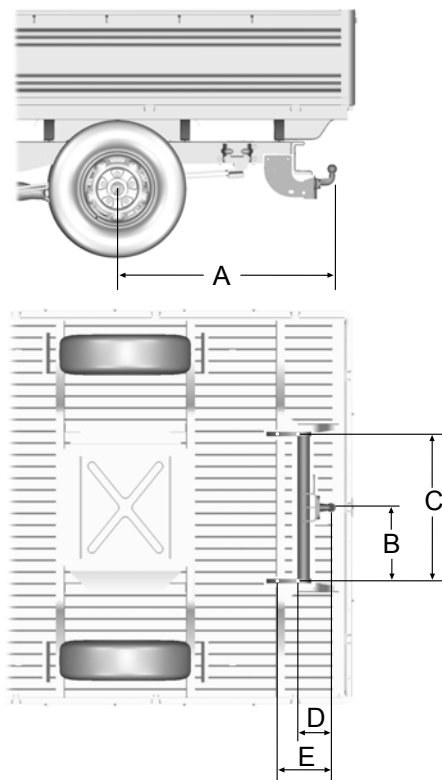
# Technical specifications

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Item	Dimension description	Dimension in mm (inches)
B	Centre of towball - side member	416 (16.4)
C	Inner side of side member	832 (32.8)
D	Centre of towball - centre 1. attachment point	334 (13.1)
E	Centre of towball - centre 2. attachment point	403.5 (15.9)
F	Centre of towball - centre 3. attachment point	473 (18.6)

# Technical specifications

## Chassis cab and Flatbed truck



E71268

Item	Dimension description	Dimension in mm (inches)
A	Wheel centre - end of towball (Standard Frame)	1180 (46.5)
A	Wheel centre - end of towball (Extended Frame)	1562 (61.5)
B	Centre of towball - side member	418 (16.5)

# Technical specifications

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Item	Dimension description	Dimension in mm (inches)
C	Inner side of side member	836 (32.9)
D	Centre of towball - centre 1. attachment point	237 (9.3)
E	Centre of towball - centre 2. attachment point	343.5 (13.5)

# Telephone

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## GENERAL INFORMATION

This section describes the functions and features of the Bluetooth mobile phone and voice control system.

The section covers the following variations:

- a mobile phone with a mobile phone cradle without voice control
- a Bluetooth and voice control system with a mobile phone cradle
- a Bluetooth and voice control system without a mobile phone cradle.

The Bluetooth mobile phone part of the system provides interaction with the audio or navigation system and your mobile phone. It allows you to use the audio or navigation system to make and receive calls without having to use your mobile phone.

The voice control part of the system can be used to control:

- mobile phone calls
- audio system functions
- vehicle climate control functions.

**Note:** *The mobile phone does not switch off immediately after the ignition key is turned off: the power down delay is preset to 10 minutes. The time period can be adjusted to between 0 and 60 minutes. This, depending on your mobile phone, can be achieved by creating a phonebook entry on your mobile phone with the name **Timer** and the required delay as it's number.*

*If the Bluetooth and voice control is used for an extended period of time when the vehicle is stationary, make sure that the engine is running to avoid draining the battery*

## TELEPHONE SETUP

### Requirements for cradle connection

Your phone must be fitted in a mobile phone holder before it can be used as a cradle phone with your handsfree/voice control system. You will be able to purchase the correct holder for your phone from your dealer.

### Placing your phone in the cradle

**Note:** *Your phone must be fitted in a mobile phone holder to allow you to connect the phone to the cradle.*

Connect your phone to the cradle.

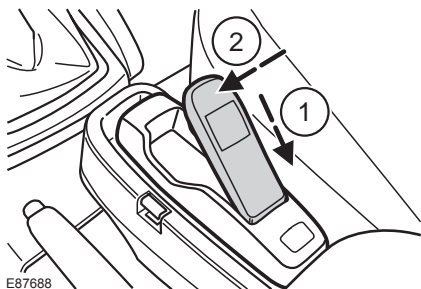
1. Place the base of the phone in the cradle connection.

**Note:** *Make sure that the phone is pushed fully rearwards in the cradle.*



# Telephone

2. Push the phone downwards until a click is heard.



**Note:** The connection to the system will be displayed on your phone.

## Phonebook

After start up access to the phonebook can be delayed for up to two minutes.

## Phonebook categories

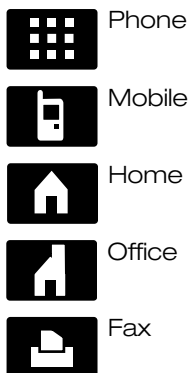
Depending on your phonebook entry, different categories can be displayed in the audio or navigation unit.

For example:

M	Mobile
O	Office
H	Home
F	Fax

**Note:** Entries may be displayed without a category attachment.

The category can also be indicated as an icon:



## Making a phone an active phone

When using the system for the first time, no phone is connected to the system.

After switching on the ignition the cradle phone and the Bluetooth phone are recognized differently by the system.

## Bluetooth phone

After bonding a Bluetooth phone to the system, this becomes the active phone. For further information refer to the phone menu.

However, in some cases the Bluetooth phone has to be activated by pressing the appropriate station button on the audio or navigation unit.

Turning the ignition back on again, the last active phone is picked up by the system.

# Telephone

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## Bond another Bluetooth phone

**Note:** *Before another Bluetooth phone can be bonded, the existing active Bluetooth connection has to be deactivated by the mobile phone.*

Bond a new Bluetooth phone as described in the requirements for a Bluetooth connection.

Phones stored in the system are accessible by using the phone list on the audio or navigation unit.

**Note:** *If six (five Bluetooth phones for cradle phone system) Bluetooth phones have been bonded, one of these has to be deleted in order to bond a new phone.*

## Cradle phone

With your phone fitted in the mobile phone cradle this does not automatically become the active phone.

In these cases refer to **Changing the active phone** in the appropriate section which describes the system fitted to your vehicle.

## BLUETOOTH SETUP

Before you can use your telephone with your vehicle it must be bonded to the vehicle telephone system.

## Handling of phones

A phone can be connected to the vehicle system by using either a cradle connection or a Bluetooth connection.

On vehicles with a mobile phone cradle, up to five Bluetooth phones can be bonded to the vehicle system.

On vehicles without a mobile phone cradle, up to six Bluetooth phones can be bonded to the vehicle system.

**Note:** *If there is an ongoing call when the phone in use is selected as the new active phone, the call is transferred to the vehicle audio system.*

**Note:** *Even if connected to the car system, your phone can still be used in the usual way.*

## Requirements for Bluetooth connection

The following are required before a Bluetooth phone connection can be made.

1. The Bluetooth feature must be activated on the phone and on the audio unit. For additional information, refer to your phone user guide
2. The private mode must not be activated on the Bluetooth phone.
3. Search for audio device.
4. Select **Ford Audio**.
5. The Bluetooth PIN number 0000 must be entered on the phone keypad.

# Telephone

**Note:** A phone call will be disconnected if the audio/navigation system is switched off. If the ignition key is turned to the off position the phone call will remain in progress.

## Compatibility of phones

### CAUTION

**!** As no common agreement exists, mobile phone manufacturers are able to implement a variety of profiles in their Bluetooth devices. Because of this, an incompatibility can occur between the phone and hands-free system, which in some cases may significantly degrade the system performance. To avoid this situation, only recommended phones should be used. Please contact your dealer for more details regarding the current compatibility list.

## Phones with Symbian operating system

**Note:** Certain phones require a special file to be installed to enable full phonebook access via Bluetooth. This is referred to as a SIS file and will be available via the Ford website. Please consult your dealer for full details.

## TELEPHONE CONTROLS

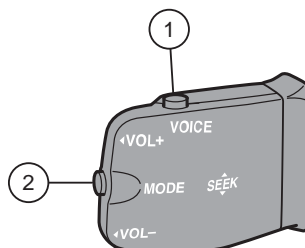
### Ending or rejecting calls

By pressing one of several function buttons on the audio or navigation unit (example: AM/FM, CD/AUX) active calls can be ended or incoming calls can be rejected.

### Remote control

One of several different types of remote control may be fitted to your vehicle:

### Voice and mode button



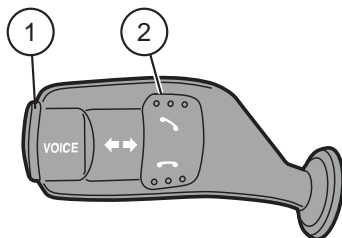
E87661

- 1 Voice button
- 2 Mode button

Incoming calls can be accepted by pressing the MODE button once or ended by pressing twice.

# Telephone

## Voice and accept/reject button



E87662

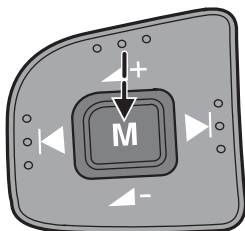
- 1 Voice button
- 2 Accept/Reject button

The VOICE button is used to activate or switch off the Voice control.

On vehicles with an accept/reject button, phone calls can be accepted and rejected by pressing the appropriate button.

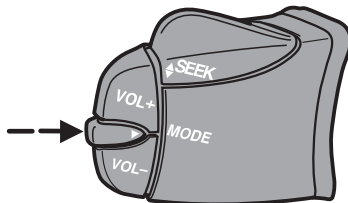
**Note:** Some audio units have the accept/reject buttons on the front bezel. These operate in the same way.

## Mode button on the steering wheel



E87663

## Mode button only



E87664

On vehicles without a VOICE button, the MODE button on the remote control is used to activate or switch off the voice control.

**Note:** You will not be able to use the MODE button to activate the voice control during an incoming or active call.

You will not be able to use the MODE button to control the audio system.

## USING THE TELEPHONE - VEHICLES WITHOUT: NAVIGATION SYSTEM

This chapter describes the phone functions of the audio unit.

**Note:** Refer to your audio guide for details of the controls.

An active phone must be present.

Even if connected to the audio unit, your phone can still be used in the usual way.

**Note:** You can exit the phone menu by pressing any source button **CD**, **AM/FM** or **AUX**.

# Telephone

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## Making a call

### Dialling a number

You can access your phone address book either with the phone docked in the cradle or via Bluetooth. The entries will appear in the audio unit display.

1. Press the **PHONE** or the call accept button.
2. Press the **MENU** button.
3. Keep pressing the **MENU** button until **PHONEBOOK** appears.
4. Press the seek buttons to select the desired phone number.

**Note:** *Press and hold the seek button to skip to the next letter in the alphabet.*

5. Press the **PHONE** or the call accept button to dial the selected phone number.

If you have an audio unit with a telephone keypad (buttons 0-9, \* and #), you can also direct dial by entering the number on the radio display via the keypad and pressing the call accept button:

1. Press the call accept button.
2. Dial the number using the telephone keypad on the audio unit.
3. Press the call accept button.

**Note:** *If you enter an incorrect digit whilst entering a phone number, press the seek down button to erase the last digit. A long press will erase the complete string of digits.*

*Press and hold **0** to enter a + digit.*

### Ending a call

Calls can be ended by either:

- pressing one of the following buttons on the audio unit: **PHONE**, **CD**, **AM/FM** or **ON/OFF**
- pressing the **MODE** button on the remote control
- pressing the call reject button.

**Note:** *If you have an audio unit with a telephone keypad you can end a call only with the call reject button.*

### Redialling a number

1. Press the **PHONE** or the call accept button.
2. Press the **MENU** button.
3. Select the **CALL OUT** list or the **CALL IN** list.

**Note:** *If the active phone does not provide a call out list, the last outgoing call number/entry is displayed.*

4. Press the seek button on the audio unit.
5. Press the **PHONE** or the call accept button to dial the desired phone number.

### Redialling the last dialled number

**Note:** *This applies to only audio units with a telephone keypad*

1. Press the call accept button.

# Telephone

---

2. Press the call accept button again to display the last dialled number.
3. Press the call accept button a third time to dial the number.

## Receiving an incoming call

### Accepting an incoming call

Incoming calls can be accepted by either:

- pressing the **PHONE** button
- pressing the **MODE** button on the remote control
- pressing the call accept button.

### Rejecting an incoming call

Incoming calls can be rejected by either:

- pressing the call reject button
- pressing the **CD** button
- pressing the **AM/FM** button.

**Note:** *If you have an audio unit with a telephone keypad you can only reject a call with the call reject button.*

**Note:** *You cannot reject an incoming call using the remote control.*

## Handling a second incoming call

**Note:** *The second incoming call function must be activated in your phone.*

If there is an incoming call whilst there is an ongoing call, a beep will be heard and you will have the option to end the active call and to accept the incoming call.

## Accepting a second incoming call

Second incoming calls can be accepted by either:

- pressing the call accept button
- pressing the **MODE** button on the remote control
- pressing the **PHONE** button.

**Note:** *This will cancel the ongoing call.*

## Rejecting a second incoming call

Second incoming calls can be rejected by pressing either:

- pressing the call reject button
- pressing the **CD** button
- pressing the **AM/FM** button.

**Note:** *If you have an audio unit with a telephone keypad you can only reject a call with the call reject button.*

## Changing the active phone

**Note:** *Phones must be bonded to the system before they can be made active.*

## Using the station storage button

1. Press the **PHONE** button on the audio unit.
2. Press the preset number required (using the station preset buttons 1 - 6).

**Note:** *This process is only for audio units without a telephone keypad.*

# Telephone

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## Using the audio unit menu

1. Press the **PHONE** or call accept button.
2. Press the **MENU** button on the audio unit.
3. Select the **ACTIVE PHONE** option on the audio unit.
4. Scroll through the different stored phones by using the seek buttons to display the bonded phones.
5. Press the **MENU** button to select the phone which is to be the active phone.

**Note:** *After bonding a Bluetooth phone to the system, this becomes the active phone.*

## Debonding a bonded phone

A bonded phone can be deleted from the system at any time, unless a phone call is in progress.

1. Press the **PHONE** or call accept button.
2. Press the **MENU** button on the audio unit.
3. Select the **DEBOND** option on the audio unit.
4. Scroll through the different phones by using the seek buttons and display the phone to be debonded.
5. Press the **MENU** button to select the phone which is to be debonded.

## USING THE TELEPHONE - TRAVEL PILOT EX

This chapter describes the phone functions of the Navigation System TravelPilot EX.

**Note:** *Refer to your Navigation System TravelPilot EX guide for details of the controls.*

An active phone must be present.

Even if connected to the Navigation System TravelPilot EX, your phone can still be used in the usual way.

## Making a call

### Dialling a number - cradle phone

Using the cradle phone allows you to access your mobile phone address book. The entries will appear in the TravelPilot EX display.

1. Press the PHONE button on the audio unit.
2. Using the **PHONEBOOK** option in the menu.
3. Choose one of the letter areas.
4. Turning the right rotary entry control, select the desired phone number.
5. By pressing the INFO button the details of the phonebook entry can be displayed.
6. Press the right rotary entry control button.

# Telephone

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## Dialling a number - Bluetooth phone

Using the Bluetooth phone, phone numbers can be dialled using voice control, refer to the **Voice control** chapter.

## Ending a call

Calls can be ended by either:

- pressing the reject button
- pressing the MODE button on the remote switch
- pressing the off button on the navigation system
- pressing the right rotary entry control button.

## Redialling a number - cradle phone

1. Press the PHONE button on the audio unit.
2. Press the MENU button.
3. Select the **CALL OUT** list, **CALL IN** list or **REDIAL**.
4. Press the PHONE button on the audio unit to dial the desired phone number.

## Redialling a number - Bluetooth phone

1. Press the PHONE button on the audio unit.
2. Press the MENU button.
3. Select **REDIAL**.
4. Press the PHONE button on the audio unit to dial the phone number.

## Handling an incoming call

### Accepting an incoming call

Incoming calls can be accepted by either:

- pressing the accept button
- pressing the MODE button on the remote control
- pressing the PHONE button on the audio unit
- using the **ACCEPT** option in the menu.

### Rejecting an incoming call

Incoming calls can be rejected by either:

- pressing the reject button
- pressing one of the following buttons on the audio unit: CD, AM/FM
- using the **REJECT** option in the menu.

**Note:** *You cannot reject an incoming call using the remote control MODE button.*

## Handling a second incoming call

**Note:** *The second incoming call function must be activated in your phone.*

If there is an incoming call, whilst there is an ongoing call, a beep will be heard and you will have the option to end the active call and to accept the incoming call.



# Telephone

---

## Accepting a second incoming call

Second incoming calls can be accepted by either:

- Pressing the accept button.
- Pressing the MODE button on the remote control.
- Pressing the PHONE button on the audio unit.
- Using the **ACCEPT** option in the menu.

**Note:** *This will cancel the ongoing call.*

## Rejecting a second incoming call

Second incoming calls can be rejected by pressing either:

- The reject button
- one of the following buttons on the audio unit: CD, AM/FM.

## Changing the active phone

**Note:** *Phones must be bonded to the system before they can be made active.*

1. Press the PHONE button on the audio unit.
2. Using the **ACTIVE PHONE** option in the menu, select the active phone from the list using the preset buttons.

## Debonding a bonded phone

A bonded phone can be deleted from the system at any time, unless a phone call is in progress.

1. Press the PHONE button on the audio unit.
2. Select the **DEBOND** option in the menu.
3. Select the phone from the list by using the preset buttons.

**Note:** *After bonding a Bluetooth phone to the system, this becomes the active phone.*

However, in some cases the Bluetooth phone has to be activated by pressing the appropriate station button on the audio or navigation unit.

# Voice control

---

## PRINCIPLE OF OPERATION

Voice recognition enables operation of the audio system without the need to divert your attention from the road ahead in order to change settings, or receive feedback from the system.

Whenever you issue one of the defined commands with the system active, the voice recognition system converts your command into a control signal for the audio system. Your inputs take the form of dialogues or commands. You are guided through these dialogues by announcements or questions.

Please familiarise yourself with the functions of the audio system before using voice recognition.

**Note:** *If the Bluetooth and voice control is used for an extended period of time when the vehicle is stationary, make sure that the engine is running to avoid draining the battery.*

## Supported commands

The voice control system allows you to control the following vehicle functions:

- phone
- radio
- CD Player
- climate control
- navigation system.

**Note:** *The voice control system is language specific. If you require the system to operate in another language please consult your dealer.*

## System response

As you work through a voice session the system will prompt you with a beep tone each time the system is ready to proceed.

Do not try to give any commands until the beep tone has been heard. The voice control system will repeat each spoken command back to you.

If you are not sure how to continue say "HELP" for assistance or "CANCEL" if you do not wish to continue.

The "HELP" function provides only a subset of the available voice commands. Detailed explanations of all possible voice commands can be found on the following pages.

## Voice commands

All voice commands should be given using a natural speaking voice, as if speaking to a passenger or on the phone. Your voice level should be dependant on the surrounding noise level inside or outside the vehicle but do not shout.

## Name tag

The name tag functionality can support the phone, audio and navigation features by using the "STORE NAME" function.

# Voice control

- Store up to 20 name tags per function.
- The average recording time for each name tag is approximately 2-3 seconds.

## USING VOICE CONTROL

### System operation

The order and content of the voice controls are given in the following lists. The tables show the sequence of user voice commands and system responses for each available function.

<> indicates a number or stored name tag to be inserted by the user.

### Short cuts

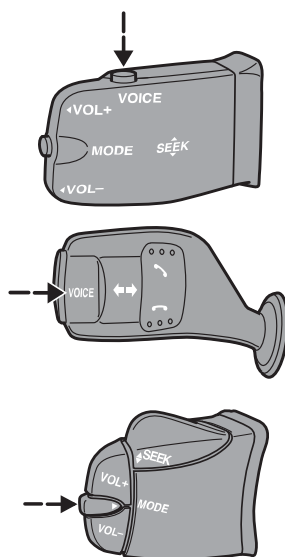
There are a number of voice command short cuts available, which allow you to control some vehicle features without having to follow the complete command menu. These are:

- phone: "MOBILE NAME"<sup>1</sup>, "DIAL NUMBER", "DIAL NAME" and "REDIAL"
- CD player: "DISC" and "TRACK"
- climate control: "TEMPERATURE", "FAN", "AUTO MODE", "DEFROSTING/DEMISTING ON" and "DEFROSTING/DEMISTING OFF"
- radio: "TUNE NAME"
- navigation: "ZOOM" and "ROUTE SETTING".

1) Only when the mobile phone is fitted with Bluetooth and voice control

### Start communicating with the system

Before you can start talking to the system you first have to press the **VOICE** or **MODE** button for each operation and wait until the system answers with a beep.



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## AUDIO UNIT COMMANDS

### CD Player/CD Changer

You can choose a disc or track directly by voice control.

# Voice control

## Overview

The overview below shows the available voice commands for operating your CD player. The following lists will give further information about the complete command menu.

"CD"
"HELP"
"DISC" <sup>a</sup>
"TRACK" <sup>b</sup>

a) Can only be used with a CD changer.

b) Can be used as a shortcut.

## Disc

If you have a CD changer you can choose the disc number.

Steps	User says	System answer
1	"CD"	"CD"
2	"DISC" <sup>a</sup>	"DISC NUMBER PLEASE"
3	"<a number between 1 and 6>"	"DISC <number>"

a) Can be used as a shortcut.

## Track

You can also choose a track on your CD directly.

Steps	User says	System answer
1	"CD"	"CD"

# Voice control

Steps	User says	System answer
2	"TRACK" <sup>a</sup>	"TRACK NUMBER PLEASE"
3	"<a number between 1 and 99>"	"TRACK <number>"

a) Can be used as a shortcut.

## Radio

The radio voice commands support the functionality of the radio and allow you to tune radio stations by voice control.

## Overview

The overview below shows the available voice commands for operating your radio. The following lists will give further information about the complete command menu.

"RADIO"
"HELP"
"AM"
"FM"
"TUNE NAME" <sup>a</sup>
"DELETE NAME"
"DELETE DIRECTORY"
"PLAY DIRECTORY"
"STORE NAME"

a) Can be used as a shortcut.

## Tune frequency

This function allows you to tune your radio by voice commands.

# Voice control

---

Steps	User says	System answer
1	"RADIO"	"RADIO"
2	"AM"	"FREQUENCY PLEASE"
	"FM"	"FREQUENCY PLEASE"
3	"<frequency>"	"TUNE <frequency>"

## Store name

If you have tuned a radio station, you can store it with a name in the directory.

Steps	User says	System answer
1	"RADIO"	"RADIO"
2	"STORE NAME"	"STORE NAME" "NAME PLEASE"
3	"<name>"	"REPEAT NAME PLEASE"
4	"<name>"	"STORING NAME" "<name> STORED"

## Tune name

This function allows you to call up a stored radio station.

Steps	User says	System answer
1	"RADIO"	"RADIO"
2	"TUNE NAME" <sup>a</sup>	"NAME PLEASE"
3	"<name>"	"TUNE <name>"

a) Can be used as a shortcut.

# Voice control

---

## Delete name

This function allows you to delete a stored radio station.

Steps	User says	System answer
1	"RADIO"	"RADIO"
2	"DELETE NAME"	"NAME PLEASE"
3	"<name>"	"DELETE <name>" "CONFIRM YES OR NO"
4	"YES"	"DELETED"
	"NO"	"COMMAND CANCELLED"

## Play directory

This function allows you to let the system tell you all of the stored radio stations.

Steps	User says	System answer
1	"RADIO"	"RADIO"
2	"PLAY DIRECTORY"	"PLAY <DIRECTORY>"

## Delete directory

This function allows you to delete all stored radio stations at once.

Steps	User says	System answer
1	"RADIO"	"RADIO"
2	"DELETE DIRECTORY"	"DELETE DIRECTORY" "CONFIRM YES OR NO"
3	"YES"	"RADIO DIRECTORY DELETED"
	"NO"	"COMMAND CANCELLED"

# Voice control

---

## TELEPHONE COMMANDS

### Overview

#### Phone

Your phone system allows you to create an additional phonebook. The stored entries can be dialed by voice control. Phone numbers stored by using voice control are stored on the vehicle system and not in your phone.

The overview below shows the available voice commands of the phone system. The following lists will give further information about the complete command menu.

"PHONE"
"HELP"
"MOBILE NAME" <sup>a, b</sup>
"DIAL NUMBER" <sup>a</sup>
"DIAL NAME" <sup>a</sup>
"DELETE NAME"
"DELETE DIRECTORY"
"PLAY DIRECTORY"
"STORE NAME"
"REDIAL" <sup>a</sup>
"ACCEPT CALLS"
"REJECT CALLS"

a) Can be used as a shortcut.

b) Only possible on mobiles which are connected by Bluetooth and fitted with voice control and stored name tags.



# Voice control

## Create a phonebook

### Store name

New entries can be stored with the "STORE NAME" command. This feature can be used to dial a number by calling up the name instead of the full phone number.

Steps	User says	System answer
1	"PHONE"	"PHONE"
2	"STORE NAME"	"STORE NAME" "NAME PLEASE"
3	"<name>"	"REPEAT NAME PLEASE"
4	"<name>"	"STORING NAME" "<name> STORED" "NUMBER PLEASE"
5	"<phone number>"	"<phone number>"
6	"STORE"	"STORING NUMBER" "<phone number>" "NUMBER STORED"

### Delete name

Stored names can also be deleted from the directory.

Steps	User says	System answer
1	"PHONE"	"PHONE"
2	"DELETE NAME"	"NAME PLEASE"
3	"<name>"	"DELETE <name>" "CONFIRM YES OR NO"
4	"YES"	"<name> DELETED"
	"NO"	"COMMAND CANCELLED"

# Voice control

## Play directory

Use this function to let the system tell you all stored entries.

Steps	User says	System answer
1	"PHONE"	"PHONE"
2	"PLAY DIRECTORY"	"PLAY DIRECTORY"

## Delete directory

This function allows you to delete all entries in one go.

Steps	User says	System answer
1	"PHONE"	"PHONE"
2	"DELETE DIRECTORY"	"DELETE DIRECTORY" "CONFIRM YES OR NO"
3	"YES"	"PHONE DIRECTORY DELETED"
	"NO"	"COMMAND CANCELLED"

## Phone functions

### Mobile name

This function allows you to access phone numbers stored with a name tag in your mobile phone.

Steps	User says	System answer
1	"PHONE"	"PHONE"
2	"MOBILE NAME" <sup>a, b</sup>	"MOBILE NAME" "<phone dependent dialogue>"

a) Can be used as a shortcut.

# Voice control

---

b) Only when the mobile phone is fitted with Bluetooth and voice control (dependant on the mobile phone).

## Dial number

Phone numbers can be dialled after giving the name tag voice command.

Steps	User says	System answer
1	"PHONE"	"PHONE"
2	"DIAL NUMBER" <sup>a</sup>	"NUMBER PLEASE"
3	"<phone number>"	"<phone number> CONTINUE?"
4	"DIAL "	"DIALLING"
	"CORRECTION"	"<repeat last part of number> CONTINUE?"

a) Can be used as a shortcut.

## Dial name

Phone numbers can be dialled after giving the name tag voice command.

Steps	User says	System answer
1	"PHONE"	"PHONE"
2	"DIAL NAME" <sup>a</sup>	"NAME PLEASE"
3	"<name>"	"DIAL <name>" "CONFIRM YES OR NO"
4	"YES"	"DIALLING"
	"NO"	"COMMAND CANCELLED"

a) Can be used as a shortcut.

# Voice control

## Redial

This function allows you to redial the last dialled phone number.

Steps	User says	System answer
1	"PHONE"	"PHONE"
2	"REDIAL" <sup>a</sup>	"REDIAL" "CONFIRM YES OR NO"
3	"YES"	"DIALLING"
	"NO"	"COMMAND CANCELLED"

a) Can be used as a shortcut.

## DTMF (Tone dialling)

This function transfers spoken numbers into DTMF tones, i.e. to make a remote enquiry to your home answering machine.

**Note:** DTMF can only be used during an ongoing call. Press the VOICE button or the MODE button and wait for the system prompt.

Steps	User says	System answer
1		"NUMBER PLEASE"
2	"<numbers 1 to 9, zero, hash, star>"	

## Main settings

### Accept and reject calls

Calls can be accepted or rejected using the Voice Control.

Steps	User says	System answer
1	"PHONE"	"PHONE"
2	"ACCEPT CALLS"	"ACCEPT CALLS"

# Voice control

Steps	User says	System answer
	"REJECT CALLS"	"REJECT CALLS"

## NAVIGATION SYSTEM COMMANDS

Please refer to your separate Navigation handbook for details of the command menus.

## CLIMATE CONTROL COMMANDS

### Climate

The climate voice commands supports the functionality of the fan speed, temperature and mode settings. Not all functions are available on all vehicles.

### Overview

The overview below shows the available voice commands for operating your climate control system. The following lists will give further information about the complete command menu.

"CLIMATE"
"HELP"
"FAN" <sup>a</sup>
"DEFROSTING/DEMISTING ON" <sup>a</sup>
"DEFROSTING/DEMISTING OFF" <sup>a</sup>
"TEMPERATURE" <sup>a</sup>
"AUTO MODE" <sup>a</sup>

a) Can be used as a shortcut. On vehicles fitted with an English language module the "FAN" shortcut is not available.

# Voice control

## Fan

This function allows you to adjust the fan speed.

Steps	User says	System answer
1	"CLIMATE"	"CLIMATE"
2	"FAN" <sup>a</sup>	"FAN SPEED PLEASE"
3	"MINIMUM"	"FAN MINIMUM"
	"<a number between 1 and 7>"	"FAN <number>"
	"MAXIMUM"	"FAN MAXIMUM"

a) Can be used as a shortcut. On vehicles fitted with an English language module the "FAN" shortcut is not available.

## Defrosting/Demisting

Steps	User says	System answer
1	"CLIMATE"	"CLIMATE"
2	"DEFROSTING/DEMISTING ON" <sup>a</sup>	"DEFROSTING/DEMISTING ON"
	"DEFROSTING/DEMISTING OFF" <sup>a</sup>	"DEFROSTING/DEMISTING OFF"

a) Can be used as a shortcut.

## Temperature

This function allows you to adjust the temperature.

Steps	User says	System answer
1	"CLIMATE"	"CLIMATE"
2	"TEMPERATURE" <sup>a</sup>	"TEMPERATURE PLEASE"

# Voice control

---

Steps	User says	System answer
3	"MINIMUM"	"TEMPERATURE MINIMUM"
	"<a number between 15 and 29 °C with 0.5 increments>" or "<a number between 59 and 84 °F>"	"TEMPERATURE <number>"
	"MAXIMUM"	"TEMPERATURE MAXIMUM"

a) Can be used as a shortcut.

## Auto mode

Steps	User says	System answer
1	"CLIMATE"	"CLIMATE"
2	"AUTO MODE" <sup>a</sup>	"AUTO MODE"

a) Can be used as a shortcut. Can be deactivated by selecting a different temperature or fan speed.

## TYPE APPROVALS

### **Bluetooth/voice recognition system - declaration of conformity**

We, the party responsible for compliance, declare under our sole responsibility that the Handset Integration product RX-1C is in conformity with the provisions of the following Council Directive: 1999/5/EC. A copy of the Declaration of Conformity can be found at:

[www.nokia.com/phones/declaration\\_of\\_conformity](http://www.nokia.com/phones/declaration_of_conformity)

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