

F I A T 5 0 0



S T A R T & S T O P S Y S T E M

FOREWORD

The **Start&Stop** device automatically stops the engine each time the vehicle is stationary and starts it again when the driver is about to engage a gear.

This improves the efficiency of the vehicle by reducing consumption, the emission of harmful gases and noise pollution.

The system is activated each time the car is started

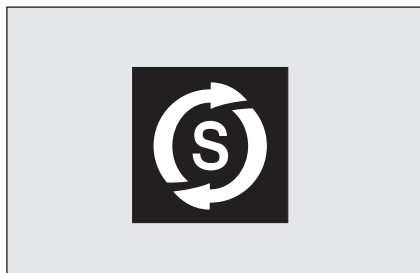


fig. 1

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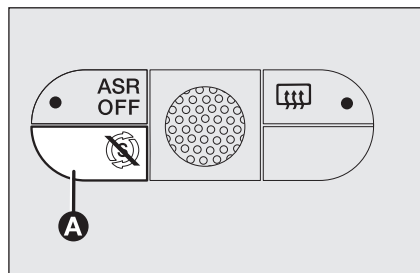


fig. 2

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OPERATING MODES

Engine cut out mode

With manual transmission

With the vehicle stationary, the engine cuts out with the gearbox in neutral and the clutch pedal released.

With robotized transmission

The engine cuts out if the car stops with the brake pedal pressed.

This condition can be maintained even if the brake pedal is not pressed, if the gear lever is in position **N**.

Note: The engine can only be stopped automatically after a speed of about 10 Km/h is reached, to prevent the engine from being repeatedly stopped when driving at walking pace.

The engine being stopped is signalled by the warning light **fig. 1** in the instrument panel, depending on the trim level.

Engine restarting mode

With normal transmission

Press the clutch pedal to allow the engine to be restarted.

With robotized transmission

If the gear lever is in position **N**, place it in any other gear, otherwise release the brake pedal or move the gear lever to (+), (-) or **R**.

MANUAL ACTIVATION AND DEACTIVATION

The device can be activated/deactivated via the button in the dashboard **A-fig. 2**. When the system is deactivated the “Start&Stop OFF” warning light is visible in the dashboard **fig. 3**.

In addition, on some versions additional information concerning the deactivation or activation of the Start&Stop is given through a message in the display

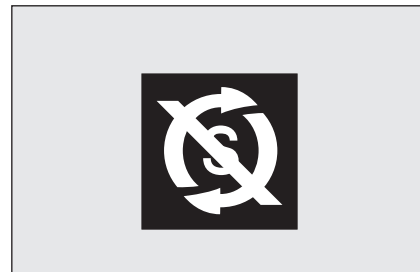


fig. 3

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NO ENGINE CUT OUT CONDITIONS

With the device activated, for reasons of comfort, limiting emissions and safety, the power unit does not stop in certain conditions, including:

- ☐ engine still cold;
- ☐ battery not sufficiently charged;
- ☐ heated rear windscreen activated;
- ☐ windscreen wipers working at maximum speed;
- ☐ particulate filter regeneration in progress (diesel engines only);
- ☐ driver's door not shut;
- ☐ driver's seat belt not fastened;
- ☐ reverse gear engaged (for example, for parking manoeuvres);
- ☐ automatic climate control, if a suitable thermal comfort level has not yet been reached.
- ☐ during the first period of use, to initialize the system

In the above cases there is an information message in the display and, where provided, the warning light **fig. 1** will flash in the instrument panel.

RESTARTING CONDITIONS

For reasons of comfort, limiting pollutant emissions and safety purposes, the power unit can restart automatically without any action on behalf of the driver if certain conditions are met, including:

- ☐ battery not sufficiently charged;
- ☐ windscreen wipers working at maximum speed;
- ☐ reduced braking system vacuum, e.g. following the brake pedal being pressed repeatedly;
- ☐ car moving, for example in cases when driving on roads with a gradient;
- ☐ stopping the engine through the Start&Stop system for more than about three minutes.

With a gear engaged, the automatic restarting of the engine is only permitted by fully depressing the clutch pedal. The driver is asked to perform this operation through a message in the instrument panel and, where provided, by the warning light **fig. 1** in the instrument panel flashing

Note: If the clutch is not pressed, when the three minutes have elapsed since the engine was stopped, the engine can only be restarted using the key.

Note: In cases when the engine stops and this is not desired, due for example to the clutch pedal being released sharply with a gear engaged, if the Start&Stop system is activated, the engine can be restarted by fully depressing the clutch pedal or by placing the gear lever in neutral.

SAFETY FUNCTIONS

In engine cut out conditions through the Start&Stop system, if the driver unfastens their seat belt and opens the driver's door or the passenger door, the engine can only be restarted using the key.

The driver is notified of this condition both by a buzzer and through an information message in the display and, where provided, by the warning light **fig. 1** in the instrument panel flashing.

ENERGY SAVING FUNCTION (For certain versions/markets)

If, after the engine has been automatically restarted, the driver does not take any action for a period of about 3 minutes, the Start&Stop system will definitively stop the engine to avoid fuel consumption. The engine can only be started using the key in such cases.

Note: In any case it is possible to keep the engine running by deactivating the Start&Stop system.

OPERATING IRREGULARITIES

In the case of malfunctions the Start&Stop system is disabled. The driver is informed of the problem by the general failure warning light **A-fig. 4**, where provided, coming on with an information message and the system failure symbol **B-fig. 4** in the control panel.

In this case, go to a Fiat Dealership.

INACTIVITY OF THE CAR fig. 5

In the case of inactivity of the car, special care must be taken to disconnect the battery electrical power supply. This procedure is carried out by disconnect the rapid release negative terminal **A** from the negative false pole **B** because there is a battery status monitoring sensor **D** at the negative battery pole **C** which should never be disconnected except if the actual battery is replaced.



WARNING

If the battery is replaced, always go to a Fiat Dealer. Replace the battery with one of the same type (HEAVY DUTY) and with the same specifications.

EMERGENCY STARTING fig. 6

In the case of emergency starting with an auxiliary battery, never connect the negative lead (-) of the auxiliary battery to the negative pole **C** of the car battery, but rather to either the false pole **B** or to an engine/gearbox earth point

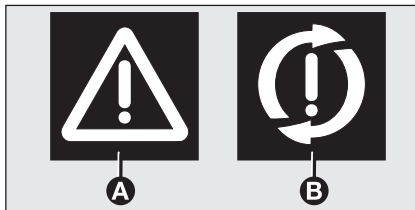


fig. 4

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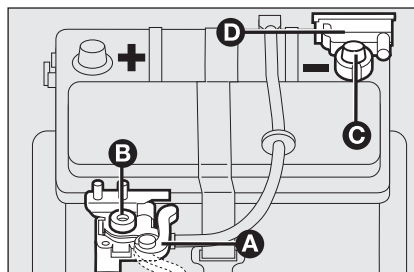


fig. 5

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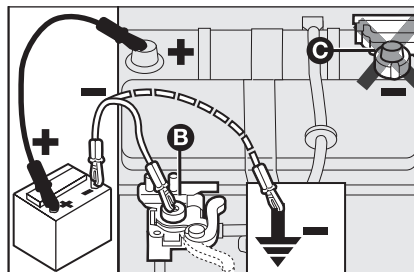


fig. 6

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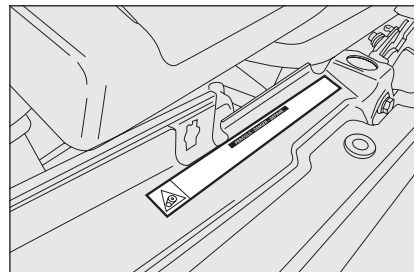


fig. 7

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IMPORTANT NOTES



WARNING

Before opening the bonnet, make sure that the car is switched off and the key is in the OFF position. Follow the instructions on the plate near the front crossmember fig. 7. It is advisable to extract the key when there are other people in the car. The car should always be left after the key has been removed or turned to the OFF position. During refuelling operations, it is necessary to make sure that the car is off with the ignition key in the OFF position.



WARNING

For cars with a robotized transmission, if the engine cuts out automatically on a gradient, it is advisable to restart the engine operating the gear lever towards (+) or (-) without releasing the brake pedal. For vehicles with robotized transmission where the Hill Holder function is present, if the engine cuts out automatically whilst driving uphill, it is advisable to restart it by operating the gear lever towards (+) or towards (-) without releasing the brake pedal to make the Hill Holder function available.



WARNING

If you want to make the most of climate comfort, the Start&Stop system can be disabled to allow continuous operation of the climate control system.