

F I A T I D E A



Musa



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

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**.

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

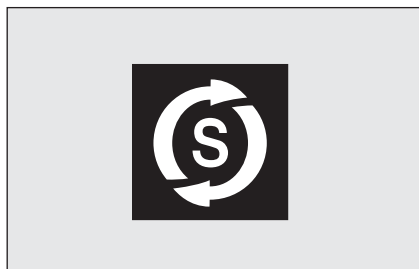


fig. 1

F0H0364m

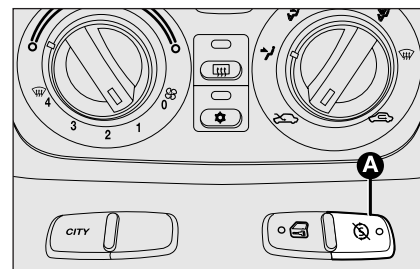


fig. 2

F0H0783m

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;
- ☐ 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 or to enable MAX – DEF function.
- ☐ extremely cold external temperatures, if the corresponding indication is provided.

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.

Note: The engine does not stop during the initial period needed to initialize the system and no warning is reported.

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;
- ☐ 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;
- ☐ automatic climate control system for adjusting the warmth or to enable MAX – DEF function.

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.

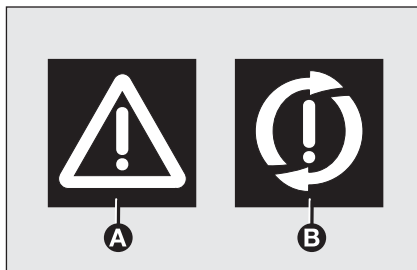


fig. 3

F0H0366m

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. 3, where provided, coming on with an information message and the system failure symbol **B**-fig. 3 in the control panel.

In this case, go to a Fiat Dealership.

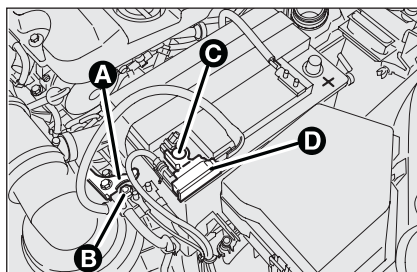


fig. 4

F0H0238m

INACTIVITY OF THE CAR fig. 4

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.

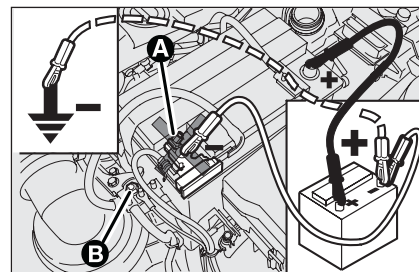


fig. 5

F0H0239m

EMERGENCY STARTING fig. 5

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



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.

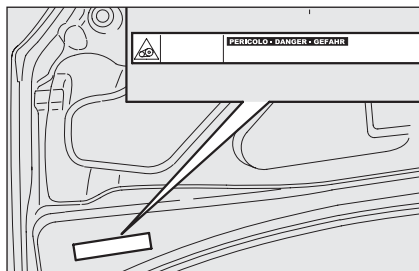


fig. 6

FOH0367m

IMPORTANT NOTES



WARNING

Before opening the bonnet, make sure that the car is switched off and the key is in the OFF position. Comply with what is shown on the plate fig. 6 attached to the inside of the bonnet (relating to the bonnet support rod entry housing). 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. When refuelling, make sure that the car is switched off with the key in the OFF position.



WARNING

For cars with robotized transmission, if the engine automatically stops on a hill it is advisable to restart the engine putting the gearstick in (+) or (-) without releasing the brake pedal. For cars with robotized gears, if the Hill Holder position is present if the engine automatically stops on a hill you need to restart the engine by putting the gearstick in (+) or (-) without releasing the brake pedal to make the Hill Holder function work which only comes on when the engine is running.



WARNING

If you would like to enjoy climatic comfort you can turn the Start&Stop system off to enable the climate control system to remain on.

ENGINE CODES - BODYWORK VERSIONS

| Fiat IDEA | Engine code | Bodywork code |
|---------------------------------|--------------------|-------------------------|
| I.4 16V 95 HP (*) | 843A1000 | 350 AXAIB 07S (5 seats) |
| I.4 16V 95 HP Dualogic (*) | | 350 AXAII 04U (5 seats) |
| I.3 Multijet 95 HP (*) | 199B1000 | 350 AXMIA 13E (5 seats) |
| I.3 Multijet 95 HP Dualogic (*) | | 350 AXMII 14E (5 seats) |
| I.6 Multijet (*) | 350A2000 | 350 AXHIA 11S (5 seats) |

(*) Euro 5

| Fiat IDEA VAN | Engine code | Bodywork code |
|---------------------------------|--------------------|------------------------|
| I.4 16V 95 HP (*) | 843A1000 | 350 BXAIB FX (4 seats) |
| I.4 16V 95 HP Dualogic (*) | | 350 BXAII FX (4 seats) |
| I.3 Multijet 95 HP (*) | 199B1000 | 350 BXMIA CX (4 seats) |
| I.3 Multijet 95 HP Dualogic (*) | | 350 BXMII CX (4 seats) |
| I.6 Multijet (*) | 350A2000 | 350 BXHIA EX (4 seats) |

(*) Euro 5

| Lancia MUSA | Engine code | Bodywork code |
|----------------------------|--------------------|--------------------------|
| I.4 16V 95 HP (*) | 843A1000 | 350 AXAIB 07TL (5 seats) |
| I.4 16V 95 HP DFN (*) | | 350 AXAII 04VL (5 seats) |
| I.3 Multijet 95 HP (*) | 199B1000 | 350 AXMIA 13FL (5 seats) |
| I.3 Multijet 95 HP DFN (*) | | 350 AXMII 14FL (5 seats) |
| I.6 Multijet (*) | 350A2000 | 350 AXHIA 11TL (4 seats) |

(*) Euro 5

FUEL CONSUMPTION

According to European Directive in force (litres per 100 km)

| Fiat IDEA | Urban | Extra urban | Combined |
|---------------------------------|--------------|--------------------|-----------------|
| I.4 I6V 95 HP (*) | 8.0 | 4.9 | 6.0 |
| I.4 I6V 95 HP Dualogic (*) | 7.2 | 4.6 | 5.6 |
| I.3 Multijet 95 HP (*) | 5.4 | 3.7 | 4.3 |
| I.3 Multijet 95 HP Dualogic (*) | 5.0 | 3.6 | 4.1 |
| I.6 Multijet (*) | 5.6 | 3.8 | 4.5 |

(*) Euro 5

| Fiat IDEA VAN | Urban | Extra urban | Combined |
|---------------------------------|--------------|--------------------|-----------------|
| I.4 I6V 95 HP (*) | 8.0 | 4.9 | 6.0 |
| I.4 I6V 95 HP Dualogic (*) | 7.2 | 4.6 | 5.6 |
| I.3 Multijet 95 HP (*) | 5.4 | 3.7 | 4.3 |
| I.3 Multijet 95 HP Dualogic (*) | 5.0 | 3.6 | 4.1 |
| I.6 Multijet (*) | 5.6 | 3.8 | 4.5 |

(*) Euro 5

| Lancia MUSA | Urban | Extra urban | Combined |
|----------------------------|--------------|--------------------|-----------------|
| I.4 I6V 95 HP (*) | 8.0 | 4.9 | 6.0 |
| I.4 I6V 95 HP DFN (*) | 7.2 | 4.6 | 5.6 |
| I.3 Multijet 95 HP (*) | 5.4 | 3.7 | 4.3 |
| I.3 Multijet 95 HP DFN (*) | 5.0 | 3.6 | 4.1 |
| I.6 Multijet (*) | 5.6 | 3.8 | 4.5 |

(*) Euro 5

CO₂ EMISSIONS

The CO₂ emission figures in the table below refer to combined fuel consumption.

According to European Directive in force (g/km)

Fiat IDEA

| | |
|---------------------------------|-----|
| 1.4 16V 95 HP (*) | 140 |
| 1.4 16V 95 HP Dualogic (*) | 130 |
| 1.3 Multijet 95 HP (*) | 114 |
| 1.3 Multijet 95 HP Dualogic (*) | 109 |
| 1.6 Multijet (*) | 118 |

(*) Euro 5

Fiat IDEA VAN

| | |
|---------------------------------|-----|
| 1.4 16V 95 HP (*) | 140 |
| 1.4 16V 95 HP Dualogic (*) | 130 |
| 1.3 Multijet 95 HP (*) | 114 |
| 1.3 Multijet 95 HP Dualogic (*) | 109 |
| 1.6 Multijet (*) | 118 |

(*) Euro 5

Lancia MUSA

| | |
|----------------------------|-----|
| 1.4 16V 95 HP (*) | 140 |
| 1.4 16V 95 HP DFN (*) | 130 |
| 1.3 Multijet 95 HP (*) | 114 |
| 1.3 Multijet 95 HP DFN (*) | 109 |
| 1.6 Multijet (*) | 118 |

(*) Euro 5