



Sterling Excel Transponder Immobiliser

User Guide

Sterling Excel | Transponder Immobiliser System

1. Introduction

This Sterling Excel security system will help protect your vehicle against today's sophisticated thief, operating independently from in-built vehicle security systems which may be prone to known vulnerabilities. The system is designed as a deterrent against vehicle theft, and as such, cannot offer any guaranteed protection. The system is designed to offer a high level of convenience and does not require any special knowledge to operate.

2. About Your Security System

The Sterling Excel is a sophisticated transponder immobiliser designed and manufactured by Scorpion Automotive in the UK. The system has been rigorously tested to meet the necessary requirements of an Insurance Approved Thatcham Category 2 Immobiliser.

The Sterling Excel comprises of a transmitter/receiver unit that is installed within the vehicle and a small coded transponder tag that is carried by the user. The transponder has no power source of its own but contains a small antenna that draws power from the magnetic field provided by the transmitter at close range. When in range, the transponder sends unique encoded information to the receiver unit in the vehicle and a correct response allows the vehicle to start. Without the correct transponder the vehicle will not start. The system also incorporates a dash mounted red status LED to indicate the status of the system as well as acting as a visual deterrent.



3. Arming the System

When the ignition is turned off, the Sterling Excel will go into a pre-arm state and the red status LED will illuminate constantly. During the 20 second pre-arm period, the ignition can be switched back on cancelling pre-arm and allowing the vehicle to start. After 20 seconds has elapsed the immobiliser will arm and the red status LED will now start to flash slowly indicating the immobiliser is now armed. If the door switch input wire has been connected and a connected door is opened during the pre-arm time, the immobiliser will arm immediately and the red status LED will change from constantly illuminated to a slow flash.

4. Disarming the System

If the door switch input connection has been made, upon opening a connected vehicle door(s) or switching on the vehicle ignition - the immobiliser will enter transponder tag search mode. The red LED will rapidly flash indicating that the system is 'searching' for a valid transponder tag. Bringing a valid transponder tag within proximity of the receiver antenna will result in the red status LED illuminating constantly. The red LED will extinguish when turning the ignition on, indicating that the vehicle can now be started. If a valid transponder tag is not recognised within 20 seconds of the immobiliser entering tag search mode - the immobiliser will remain armed and the red status LED will change from rapid flashing to a slow flashing state. To re-enter tag search mode, simply cycle the ignition on or if connected, open a door on the vehicle.

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5. Programming New Or Additional Transponder Tags

The Sterling Excel is supplied with 2 transponder tags. If you require any further transponder tags for the system your installer can supply a third, fourth or fifth tag (maximum of 5 to preserve security). To program new transponder tags into the system please proceed as below:

- Remove your existing transponder tag from your keyring.
- Disarm the system using a valid transponder tag. (The red status LED will illuminate constantly).
- Ensure all of the vehicles doors are closed.
- Switch the ignition on-off-on off-on carry out this sequence within 7 seconds. The red status LED will flash rapidly indicating that the system is now ready to accept new transponder tags.
- Pass the first new transponder tag close to the receiver antenna - the red status LED will flash once to indicate that a transponder tag has been programmed.
- Pass the next transponder tag close to the receiver antenna - this time the red status LED will flash twice indicating that a second transponder tag has been programmed.
- Continue with all the transponder tags (up to 5 including any original tags) that you wish to program in.
- On completion of the above, turn the vehicle's ignition off to exit the programming sequence.

Please note: On programming new transponder tags to the system, all previous (old) tags are erased. This means that any lost or stolen tags will not work. For this reason you must program ALL the transponder tags that you wish to operate the system, including your existing ones.

6. Deleting Lost or Stolen Transponder Tags

If you lose or suspect that one of your transponder tags has been stolen, it is imperative that this transponder tag is 'deleted' from the system to maintain security. To do this a valid transponder tag and at least one additional new transponder tag is required. Follow the instructions in Section 5.

Attention: Your product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these products



Any further enquiries regarding the Sterling Excel should be referred to your Scorpion Authorised Installing Dealer

Maintenance and Service

Your Scorpion Authorised Installing Dealer will assist with your questions or any issue with your security system.

If you lose any of your transponder tags, your dealer will be able to assist you in obtaining replacements.

All information is supplied in good faith, but from time to time certain changes in specification/features may change without notice.



Sterling is a brand of Scorpion Automotive Ltd.

Scorpion Automotive is the UK's leading designer, manufacturer and supplier of vehicle security and tracking systems for cars, LCVs, HGVs, motorcycles, motorhomes and caravans.

Our in-house team design hardware and software in accordance with IATF16949 standards with volume manufacture carried out in our state of the art production facility.

Scorpion products are sold across the globe with clients such as Aston Martin, Subaru, Toyota, Isuzu, BMW Motorrad, Honda, DAF Trucks, Leyland Trucks, Iveco, Norton and Triumph Motorcycles.

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