

Product Leaflet

Shield Safe©

Toyota LC200 RKE Override System

In various areas where active ECM or high RF fields are generated, the low power keyless entry system often found in luxury cars (as the Toyota LC200 SUV) is unable to communicate effectively and either locks you out of the vehicle or disables the starting functions. This means the towing of the vehicle to a lower RF field strength area for the system to work. The **Shield Safe©** system overrides the low power functions and allows the vehicle to be started in the harshest of environments. It is easy to fit and is proven under high RF conditions both under laboratory test and in theatre operations.

Shield Safe© is designed to isolate the OEM components that control the automatic entry and starting systems of the vehicle. Once installed it allows the vehicle to communicate between its systems when required without being interfered with by external RF fields. No interaction is therefore required as it operates in the background at all times and entry and engine start is via a normal key system.

In order to give a remote locking facility Shield Safe contains a new central locking Remote Keyless Entry (RKE) system with up to 4 programmed key fobs for the vehicle. This is fitted to act just like a normal RKE system but will not operate in a RF ECM environment even though it is of a much higher power than on the OEM system. The system also comes with 4 OEM main keys that replace the emergency key found in the OEM key fob.

Therefore the system allows you to open and close the car by RKE or keyed entry/exit. The starting of the car is by the same key as used for door opening providing some increased security when the vehicle is left open.

- Replaces the OEM wireless key fob
- A secure key starting system does not rely on wireless connections
- Robust and theatre proven
- Enhanced central locking system
- Stops interference in the OEM system whilst starting the car in high RF environments
- Tested to the latest RF jamming systems deployed

Shield Safe was specifically developed for the Toyota LC 200 but in practice can be modified to work on any push button start system using a low power RKE remote system.

Operational since 2010 in high RF zones around the world the system has proven itself in may countries operational fleets.

Installation is by Cre8 Associates Limited personnel only (commissioning) but can be installed by vehicle armouring companies during the build process.



Cre8 Associates

EMC & Electrical Engineering

www.cre8-associates.com

Specifications

System Part Number	10039
Operation	Automatic via Keyed Ignition
Current Drain	<300 uA on Central Locking OEM system as normal
Central Locking	Supplied with 4 key fobs Supplied with 4 OEM Keys 12 VDC 5 Amp fused
Ignition	Pulsed key switch operation
Protection	Only in Cockpit of vehicles
Temperature Range	-40 - +70°C
Weight	3.5 Kg with harness

Please be aware that this system requires expert set up and calibration to allow continued operation. Certain functions on the vehicle may be disabled and some additional warning sounds may occur on door opening depending on model of LC 200.



Cre8 Associates Limited

Bruntingthorpe Proving Ground
Bath Lane
Lutterworth
Leicestershire
LE17 5QS
United Kingdom

Tel +44(0)1162 479787

Email enquiries@cre8-associates.com



Cre8 Associates

EMC & Electrical Engineering

www.cre8-associates.com

Issue 1 - Dated 21 March 2014