

Unlocking Technology

Rover - MG

(Version 2.4)







World Leaders In Automotive Key Programming Equipment

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CONTENTS



2



APPLICATIONS Have Moved to IQ - Online

Vehicle Data Search

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Applications are continually updated as vehicles are constantly added.

To ensure you have the very latest information, the applications list is available via Info Quest - an online portal containing vehicle technical data for key & remote programming for all manufacturers.

> To view the latest vehicle applications please visit Info Quest at

> > http://iq.advanced-diagnostics.co.uk/

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3



DIAGNOSTIC SOCKET LOCATIONS





DIAGNOSTIC SOCKET LOCATIONS





GENERAL OPERATION



INTRODUCTION

SYSTEM DESCRIPTION (5AS ALARM SYSTEM) ED-DIAGNOSTICS COLUK

There are a number of different systems fitted across the Rover vehicle range, which vary slightly. The systems can only be enabled and disabled using the Key Fob (PLIP). If the car is locked with the mechanical key only, then the alarm is not enabled.

There are three ways the alarm works, one is to enable an ultrasonic alarm, the second Perimetric protection and the other engine immobilisation. In addition to this it also operates the central locking.

When the system is armed or disarmed the hazard lights will flash depending on which operation is performed. If the doors lock but the hazard lights do not flash, then it is possible that one of the doors, boot or bonnet is partially open.

PLIP KEY

This is a radio transmitter which has two buttons, one to arm the system and one to disarm. When the system is armed the ALARM LED indicator will flash quickly for 10 seconds, and then flash at a slower frequency.

The radio code signal is changed each time the PLIP key is used, and the code is changed both in the handset and also the ECU on the vehicle. If this sequence is broken, then the PLIP key can be re-enabled as follows :-

Procedure.

1. Unlock the drivers door using the key.

2. Ensure all doors, bonnet and boot are shut, and if Central Locking is fitted, make sure both front doors are unlocked.

3. Press the PLIP key (Lock button) four times quickly, until the vehicle locks are enabled.

ENGINE IMMOBILISATION

The engine immobiliser is set as soon as the Perimetric alarm is enabled, which Inhibits the engine electrical circuits. Immobilization can only be removed using the PLIP key or the emergency access code (EKA). If the car is not locked using the PLIP key, the immobiliser will be activated 20 seconds after the ignition is switched off, and the drivers door opened. The engine can be re-immobilized by pressing the unlock button on the PLIP key.

PLIP KEY BATTERY REPLACEMENT

Ensure the vehicle is unlocked before the following procedure is followed.

The battery in the Plip key should last for around 3 years, depending on usage. To change the battery, split the Plip key in half and remove the battery, taking care not to touch the clip or any of the components.

Press and hold each of the Plip key buttons for 5 seconds, to discharge any residual voltage in the circuits.

Replace the battery, ensuring the side marked with '+' is facing the clip. Once replaced, snap together both halves of the Plip key. Follow the procedure on the previous page to re-initiate the plip key.

PERIMETRIC SYSTEM

If the alarm is activated, then the horn will sound for approximately 30 seconds if any of the following are detected :-

- Boot is opened
- Bonnet release is opened
- Ignition is turned to crank position
- Drivers door button is raised (Only on Central Locking Systems)
- Drivers door is unlocked (Using Key)

Once alarm is activated, it can only be turned off by disarming the alarm. If it is not disarmed the ECU stores a fault. Then if the alarm is disarmed later, the alarm LED will flash rapidly until the ignition is turned on or the alarm is re-armed.



GENERAL OPERATION



TAMPER PROTECTION

The system is fitted with tamperproof protection on vehicles with Central Locking. This enables the alarm if the drivers door button or the actuator switch wires are tampered with.

VEHICLE BATTERY

Ensure the Alarm is disabled before removing the vehicle battery, otherwise the alarm will sound on re-connection.

ENGINE IMMOBILISATION OVERRIDE

If the Plip key is lost or does not function, the emergency access code (EKA) can be used to override the system as follows :-

- 1. Insert the key into the drivers lock, and turn to the lock position.
- 2. Hold the key in this position for 5 seconds.
- 3. Now using the code turn the key to the unlock the number of times of the first digit.
- 4. Now turn the key to the lock position the number of times of the second digit.
- 5. Repeat for the last two digits.
- 6. After the code has been entered, turn the key to the unlock position, and check to see whether the Alarm LED has stopped flashing, and the engine will start.

If an error is made, open and close the door and repeat the sequence. If 3 unsuccessful attempts are made, the system will lock out for 10 minutes, before another attempt can be made.

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SPECIAL FUNCTIONS



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8

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SPECIAL FUNCTIONS



11

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SPECIAL FUNCTIONS

ROVER MG (PEKTRON) EKA CODE DIAGNOSTIC MENU EKA CODE VEHICLE SELECTION + ECU IDENTIFICATION THE FOLLOWING CODES + RENAULT SPECIAL FUNCTIONS ARE NOT ALLOWED + ROVER + SAAB 1234 4321 2222 8888 OR CONTAINING + SAMSUNG TWO OR MORE 1'S + SEAT PRESS ENTER KEY + SMART VEHICLE SELECTION DIAGNOSTIC MENU SECURITY CODE + REMOTES + EKA CODE PROGRAM REMOTE + EMS + IMMOBILISER 2 3 5 1 4 7 9 0 6 8 VEHICLE SELECTION EKA CODE SECURITY CODE + ROVER MG-F PLEASE ENSURE ALL DOORS LOCKED + ROVER 25 8157 + ROVER 45 AND IMMOBILISER ARMED + ROVER 75 DOORS ARE LOCKED + MG-ZR х PRESS ENTER KEY HG-ZS VEHICLE SELECTION EKA CODE EKA CODE + REMOTE FUNCTIONS UNLOCK 5 TURNS COMPLETE LOCK 8 TURNS UNLOCK 4 TURNS LOCK 3 TURNS PRESS ENTER KEY PRESS ENTER KEY EKA CODE EKA CODE ONCE EKA CODE IS WOULD YOU LIKE TO SWITCH IGNITION ON ENTERED YOU MUST PROGRAM WAIT 5 MINS BEFORE EKA CODE ATTEMPTING TO START YES=ENTER NO=BACK CAR OR PROGRAM FOB PRESS ENTER KEY PRESS ENTER KEY DIAGNOSTIC MENU EKA CODE ACCESS GAINED ENTER NEW EKA CODE + EKA CODE ALL DOORS CLOSED **PROGRAM REMOTE** TRYING TO COMMUNICATE IMMOBILISER ARMED DOORS ARE LOCKED PRESS ENTER KEY PRESS ENTER KEY

13 Version: 2.4 MAY 2013 Copyright 2013





TIPS & HINTS



GENERAL

If the Plip key does not operate, it could be one of the following causes: -

- Bad connection at 5AS ECU plug.
- Plip Key inoperative or ECU de-programmed.
- System in lock out due to other radio interference. GNOSTICS.CO.UK
- 2. Alarm LED not working, this could be the failure of LED unit, as this is common on Rover 800 vehicles. Replace LED unit.
- On Rover 416 Automatic Honda PGMFI engine, if the unlock button is pressed on the Plip key while the ignition is switched ON, vehicle will not start. The Alarm bleeper will sound. To re-immobilise turn ignition off and re-start the vehicle.

UK/Ireland

4. Radio Frequency Colour coding

Frequency Colour (ECU/Handset) Countries

- 433.92 MHzBlue/Black224.5 MHzYellow/Yellow433.92 MHzBlue/Purple433.92 MHzBlue/Blue433.92 MHzWhite/Blue315.0 MHzGreen/Green315.0 MHzOrange/Green
- Socket mix ups are common Green 3 pin for programming remotes White 3 pin for programming MEMS ECU

France Germany Europe(except France, Germany, Switzerland, Italy & Denmark) Switzerland & Denmark ROW, Italy & Australia Gulf & Japan

- Before programming a MEMS ECU the immobiliser must be disarmed otherwise the error "short to ground" will be seen.
 - No communication on a Rover/Land Rover may be the indication of a damaged tester test with ADC145 dongle FOR AD100/MVP.
- 8. Some Rover 420 vehicles have no pin in the diagnostic socket for battery feed (16) -You will need to run a +ve feed to the DLC. battery power.
- 9. EKA numbers can go up to 15. DVANCED-DIAGNOSTICS.CO.
- 10. Maximum of 4 plip keys can be programmed

PRECAUTIONS

IMPORTANT : PLEASE ENSURE ALL PRECAUTIONS ARE OBSERVED AS INDICATED AT THE FRONT OF THE OPERATING MANUAL.

IN PARTICULAR: For vehicles fitted with STOP/START technology, the battery leads must not be shorted together when the battery is disconnected as this can lead to damage to the car and potential personal injury.



6.

TIPS & HINTS





REMOTE PROGRAMMING



ROVER METRO (3AS)

The procedure for manually coding the single button plips on a Rover Metro with 3AS is:

Procedure

- System must be disarmed first, turn the ignition on and then off within 3 seconds. 1.
- 2. Open the tailgate and leave it open
- Again, turn the ignition on and then off within 3 seconds. 3.
- If the procedure has been done correctly, the horn will sound briefly and the alarm LED will come on and stay on. 4. 5 Press the button of the first plip to be coded, the fob LED will come on, go off and come back on again. If the 3AS unit accepts that plip, the alarm LED will go off briefly and come back on.
- Repeat this last procedure to code another plip, the maximum allowed is two. 6
- Exit the learning mode by turning the ignition back on. 7

ROVER 200

Remote control problems can occur if the remote loses it's code or if the code gets corrupted (this can be caused in several ways) if this has happened these can often be re-coded quite simply (it does vary slightly with model and year) The usual way is to remove the remote battery, push down both buttons for 20 seconds (to discharge the capacitor, the remote then loses whatever code it contained) then, re-fit the remote battery and whilst near the car rapidly depress the dimpled lock button 5-6 times. This should recode the remote. There are model variations, on some you have to have the ignition switched on and the remote near the centre of the dash to recode.

- Sit in the car.
- 2. Close all doors, boot and bonnet.
- 3 Remove battery from remote.
- 4. Press both buttons several times to discharge any residual charge.
- 5. Replace battery.
- Hold down the open button for at least 5 seconds. 6
- Release button then press the other one.
- 8. You may have to press this button a couple of times.
- If this fails try it again from step one. 9







AD900Pro Transponder Cloning

The most advanced key transponder cloning tool in the market - that reads, writes, copies, a wide range of automotive transponders worldwide. Complimenting the AD100Pro / MVPPro.

21st Century Wilardry A D 6 0 0 Code Wizard Pro

AD600 Code Wizard Pro PINCODE Generator

AD600 is a software program that supports various vehicle manufacturers and provides the ability to generate immobiliser PINCODES, mechanical key codes including dealer tool security codes.



Remote Control Tester

ADVANCEL DIAGNOSTICS AD35

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AD35 is an innovative remote control tester developed to assist with the diagnosis of all types of (IR) Infra Red & (RF) Radio Frequency remote controls for all makes & models.

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