



# **M40**

## **Vehicle Security System**

### OPERATING INSTRUCTIONS

**STANDARDS CERTIFIED TO**

**AS/NZS4601 amendment 1 2003**

**& AS/NZS3749.1 2003 Class B (when optional siren fitted)**

## REMOTE CONTROL KEY – 2 supplied

### BUTTON ONE ONLY

#### **'ARM' (& LOCK)**

PRESS FOR 1.5 SECONDS  
TO ARM THE SECURITY SYSTEM

(DOORS WILL ALSO LOCK IF THE  
CENTRAL LOCKING HAS BEEN  
CONNECTED)

#### WHEN SIREN ADDED

SIREN WILL CHIRP ONCE TO  
CONFIRM ARMING  
PRESS FOR 3 SECONDS TO  
'PANIC' THE ALARM



### BUTTON TWO ONLY

#### **'DISARM' (& UNLOCK)**

PRESS BUTTON TWO TO  
DISARM THE ALARM SYSTEM.  
(DOORS WILL ALSO UNLOCK  
IF THE CENTRAL LOCKING  
HAS BEEN CONNECTED)

#### WHEN SIREN ADDED

SIREN WILL CHIRP TWICE TO  
CONFIRM DISARMING

### BUTTON ONE & TWO TOGETHER

#### **SILENT ARM & AUTO SILENT DISARM**

PRESS BOTH BUTTONS TO SILENTLY ARM WITH NO CHIRPS. DISARMING IS  
AUTOMATICALLY SILENT. ONLY APPLICABLE WHEN A SIREN IS ADDED.

The remote control is waterproof and also allows a modified ignition key to be inserted into  
the remote so it is all one piece – see last page of this manual.

### **ARMING THE SYSTEM - BY REMOTE**

The system is armed by depressing the remote control momentarily (approx. 1~1.5 seconds).

You will notice the vehicle lights will flash once to indicate that the system is armed.

(The optional siren, if fitted, will chirp once)

The dash board warning light, LED, will slow flash to indicate armed mode. If your vehicle has central locking and it has been connected to this security system, the doors will lock at the same time as arming.

The system will be fully armed after approximately 5 seconds.

### **DISARMING THE SYSTEM - BY REMOTE**

Press the remote control to disarm the system.

The vehicle lights will flash twice and the doors will unlock if wired to the vehicle's central locking system. (The optional siren will chirp twice)

The dashboard LED will begin to fast flash to indicate the system will automatically re-arm after 30 seconds.

You must start the engine to prevent the system re-immobilising.

### **AUTOMATIC DUAL CIRCUIT ENGINE IMMOBILISATION – 30 SECONDS AFTER IGNITION OFF**

If the system is not manually armed by the remote control the vehicle will be automatically immobilised 30 seconds after the ignition is turned off. The dash board LED will fast flash for 30 seconds to indicate the system is in this sequence. After 30 seconds the dash board LED will slow flash to indicate armed mode and the parking lights will flash once. (The optional siren will chirp once)

NOTE: As this security system is designed and certified Standards requirements, the automatic immobiliser cannot be programmed off.

### **SECURITY RE-ARM (& RE-LOCK)**

The system will automatically re-immobilise after 30 seconds if it has been disarmed by remote. Doors will also re-lock, if connected, if no door is opened within the 30 seconds. Opening a door will not prevent the engine from being automatically immobilised – the engine must be started to prevent this. For the security re-lock feature to operate, the system must have been initially set by the remote control.

### **TRIGGER & 2 STAGE DISARM**

When armed, if a door is opened or the ignition is switched on the vehicle lights will flash for 30 seconds (the optional siren, if fitted, will sound).

If the system is being triggered, press the disarm button once to cancel the trigger.

Press a second time to disarm the system.

### **AUTOMATIC RE-SET**

After the system has been triggered, it will automatically re-set to the armed position. If the vehicle lights flash 4 times upon disarming, this indicates the system has been triggered.

### **ARM CONDITION MEMORY**

Should the vehicle battery be disconnected, the system memorises the last set position of the system. If the system was disarmed and the engine not immobilised prior to battery disconnection, reconnection does not immobilise the vehicle until reset by the ignition being turned ON then OFF. If the battery was disconnected whilst the system was armed, reconnection will return the system to the armed state and then immediately trigger.

### **PARK LIGHTS FLASHING (connection to the indicators may infringe your warranty)**

The park lights flash to confirm the arming and disarming of the system. They will also flash if the system is triggered whilst the system is armed. The park light output is fuse protected to prevent the module being shorted.

## **PARK LIGHT CONFIRMATION / CODES**

This is a visual indication of system status.

- 1 Flash - Armed by remote.
- 2 Flashes - Disarmed.
- 3 Flashes - Armed by remote with a door left open.
- 4 Flashes - Disarmed but system was triggered.
- Flashes for 30 seconds - System triggered.

## **DASH MOUNTED WARNING LIGHT - LIGHT EMITTING DIODE (LED)**

Located on or near the dashboard area, the status LED is a small blue flashing light that indicates the vehicle is fitted with a security system. This LED needs to be visible from outside the vehicle as a theft deterrent.

- A) Slow flashing - system armed.
- B) LED off - system disarmed.
- C) Fast flashing - 30 second immobilisation or auto re-arm countdown.

## **EMERGENCY OVERRIDE – 4 DIGIT PIN CODED**

The system can be disarmed by entering your the unique 4 digit PIN code shown on the 'PIN Code Card' issued with this product.

**KEEP THE CARD IN A SAFE PLACE – NOT IN THE VEHICLE !**

Following is an example using PIN code **4525**

Unlock, enter the vehicle and close all doors, then the code is input by turning the ignition ON or OFF in sequence with the alarms dash mounted LED.

1. **Ignition ON** - LED will light permanently to commence override.
2. **Ignition OFF** - LED will start flashing. Count the number of flashes for the first number.
3. **Ignition ON** - *after 4 flashes (1<sup>st</sup> number of the example). The LED will light.*
4. **Ignition OFF** - *count the number of flashes.*
5. **Ignition ON** - *after 5 flashes (2<sup>nd</sup> number). The LED will light.*
6. **Ignition OFF** - *count the number of flashes.*
7. **Ignition ON** - *after 2 flashes (3<sup>rd</sup> number). The LED will light.*
8. **Ignition OFF** - *count the number of flashes.*
9. **Ignition ON** - *after 5 flashes (4<sup>th</sup> number).*
10. **The system will now disarm and the vehicle can be started.**

**Note: If your PIN code contains a "0", this equals '10'.**

Should you miss the LED flashes or enter a digit incorrectly, wait for 11 flashes and simply repeat the procedure from step 1). This override sequence will have to be used to start the engine if your remote controls are not available or inoperative.



## **INSTALLATION**

For full Standards compliance, this product must be carried out by authorised installers to comply with the AS/NZS 3749.2 -1997 Standard or any updated versions.

The main module has concealed plugs with only black wires emitting from it. The wires are labeled for the function;

- 1 LIGHT - (+) 12V OUTPUT TO PARKING LIGHTS
- 2 DOOR TRIGGER ('+' OR '-' SELECTABLE BY JUMPER J5. FACTORY SET TO '-')
- 3 (-) NEGATIVE GROUND x 2
- 4 (+) 12V FUSED CONSTANT POWER
- 5 (+) 12V IGNITION INPUT WIRE (ALSO +12V BACK-UP FOR IMMOBILISATION)
- 6 (-) GROUND WHEN ARMED
- 7 (-) LOCK, LOW CURRENT (0.3 SEC PULSE – OPEN JUMPER J5 FOR 4.0 SEC)
- 8 (-) UNLOCK, LOW CURRENT (0.3 SEC PULSE – OPEN JUMPER J5 FOR 4.0 SEC)
- 9 (+) OPTIONAL SIREN OUTPUT
- 10 IMMOBILISER CIRCUIT NO' 1 (BLACK TAPED TOGETHER)
- 11 IMMOBILISER CIRCUIT NO' 2 (BLACK TAPED TOGETHER)
- 12 DUMMY IMMOBILISER CIRCUIT NO' 3 (CLEAR TAPED TOGETHER)
- 13 LED

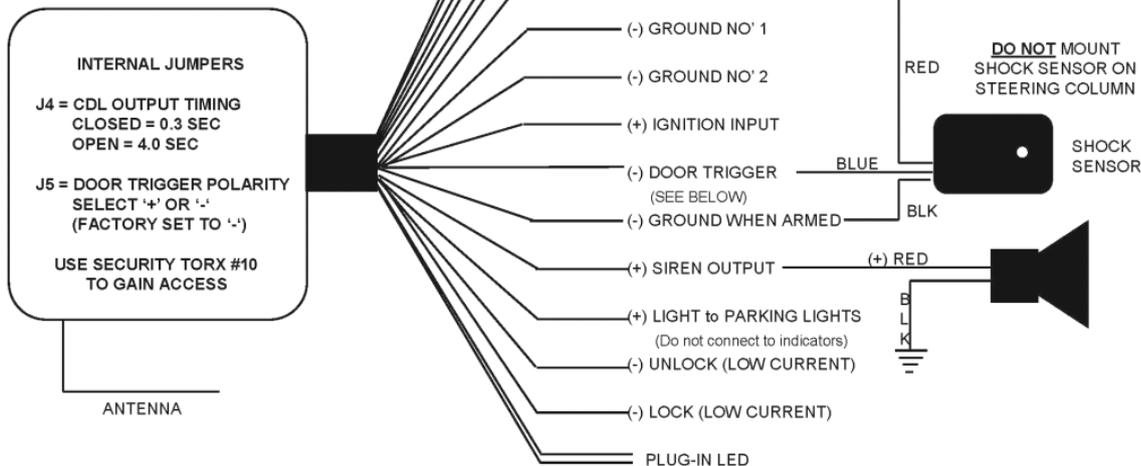
## WIRING DIAGRAM

Showing optional alarm connections

Internal plug arrangement – viewed from front of PCB

UNLOCK	LOCK	GWA	DUMMY	+12V	LIGHT
SIREN	DOOR	GND	GND	DUMMY	IGN

Immobiliser wires are soldered directly to the PCB



NOTE: THE M40 HAS ONLY ONE TRIGGER INPUT FOR BONNET, BOOT, DOORS AND SHOCK SENSOR. CONNECT THE BOOT SWITCH TO A REAR DOOR AND ADD DIODES AS SHOWN.



## REMOTE 'CODE LEARNING'

The main alarm module has a learning capacity to memorise up to four remote controls. If you wish to add further remotes, or a remote has to be replaced, the new remote needs to be memorised into the main module. If for instance you have lost a remote and are fearful that someone may try to use it, the lost remote can be deleted from memory so it cannot be used.

### To learn a remote or add an additional remote:

- Disarm the system
- Open the drivers door and leave open
- Turn the ignition ON/OFF 3 times within 5 seconds (ignition remains off)
- The park lights will flash 3 times (and if fitted, the siren will chirp 3 times) and the dashboard LED will light permanently to confirm you have entered remote code learning mode.
- Press button one on the first remote – lights will flash once (optional siren chirps once) as confirmation of reception
- Press button one on the second remote – lights will flash twice (optional siren chirps twice) as confirmation of reception
- Repeat for up to four remotes (lights flash three times for the 3<sup>rd</sup> remote and four times for the 4<sup>th</sup>)
- Leave the system for 10 seconds or turn ignition ON to complete the process. This is confirmed by 3 fast light flashes (and 3 chirps if siren connected) and LED off.

***NOTE: When learning a new replacement or additional remote, the original remote(s) must be re-learnt or they will be erased from memory and will not operate this system.***

### To delete a lost remote from memory:

Enter learning mode as detailed above. Memorise existing remote once. The lost remote is now deleted. When a replacement is obtained, learn both the existing and new remotes into memory as detailed above.

# WARRANTY CONDITIONS

## PRODUCT WARRANTY

Mongoose warrants for a period of 36 months that it will make good without charge at Mongoose's discretion, by repair or replacement with a reasonable equivalent, any defect in the product providing that:

- (a) the defect has been notified as soon as it is noticed to an authorised Mongoose installation centre, distributor or agent (in the first instance to the original installation centre).
- (b) the alarm is less than 3 years of age from the date of sale and was manufactured within the last 4 years.
- (c) the alarm has been installed by an approved Mongoose installation agent
- (d) it has been installed according to the AS/NZS 3749.2 Installation Standards and/or to our written instructions.
- (e) provision of proof of purchase stating where it was purchased and by whom it was installed.
- (e) if the alarm is installed by anyone other than an approved Mongoose installer a 12 month parts only warranty applies
- (f) an authorised installation centre has determined that the defect complained of is a genuine product defect and not caused by;
  - (i) incorrect installation or any other consequential damage caused by the vehicle or other vehicle parts
  - (ii) operation of alarm after it is known to be defective
  - (iii) alteration or modification of the alarm or its components
  - (iv) the fitment of additional security parts or accessories not supplied by or approved of by Mongoose
  - (v) any work carried out on the alarm by someone other than an authorised Mongoose installation centre
  - (vi) misuse, accident, deliberate act or abuse (eg: misdirected electrical current, ingress of water or fluid, vehicle damage)

### Exclusions:

- (i) removal & refitting costs of parts and/or accessories
- (ii) mobile service costs
- (iii) batteries, i.e. remote controls
- (iv) normal wear and tear
- (v) alarms operated outside the original country of purchase
- (vi) freight costs of parts to rectification centres
- (vii) transport costs of getting a vehicle to a repair centre
- (viii) consequential costs of vehicle non-operation where the remote controls or PIN code card are lost, not available, or an inability to use

## INSTALLATION WARRANTY

Warranty for the installation is borne by the original installing agent only.

The period and terms of warranty are determined by the installation agent and should be verified with them.

Rectification work required to correct an installation fault carried out by anyone other than the original installation agent will incur their charges.

Authorisation to have this work carried out and agreement to have any costs refunded should be obtained from the original installation agent prior to work commencing.

Whilst every care is taken in fitting the security system, Mongoose accepts no responsibility for any damage caused to a vehicle in the installation process. Responsibility is borne by the installer.

### **THIS WARRANTY IS ONLY TRANSFERABLE AS PRESCRIBED AS BELOW**

- a) If the vehicle is sold with this product, the new owner receives the balance of any warranty period remaining.
- b) If the original owner has the system re-installed into an alternative vehicle by an authorised Mongoose installation centre, the owner receives the remaining period of warranty. If re-installed by an unauthorised person, this warranty ceases.

This product is manufactured, tested and certified to the joint Australian and New Zealand Standards AS/NZS4601 1999 amendment 1 2003 & AS/NZS3749.1 2003 Class B when fitted with a compliant siren.

Manufactured for: Mongoose (Australia) Pty Ltd

Make : Mongoose

Model : M40 (MX40MKII)

Country of manufacture: Taiwan R.O.C.

Supply voltage: 12v DC nominal – negative ground

Current consumption: 0.3amps (excluding any optional accessories)

Suitability: All vehicles with 12v negative earth batteries

Date of manufacture: Refer date code on module case

Whilst this security system provides a deterrent, it may not prevent theft or damage through wilful criminal intent. Mongoose does not by inference, intent or any other means guarantee that a vehicle fitted with one of its security systems will not be stolen, broken into, tampered with, or parts taken. Mongoose does not offer nor will pay compensation for any loss. We recommend adequate vehicle insurance and the fitment of other security devices as deemed necessary.

The loss and any associated costs of replacing the remote controls and/or PIN code card in making the vehicle mobile are the responsibility of the vehicle owner/driver.

# PROOF OF PURCHASE

## DO NOT LEAVE THIS INFORMATION IN THE VEHICLE

OWNERS NAME:.....

VEHICLE MAKE:.....

ADDRESS:.....

VEHICLE MODEL:.....

.....

VEHICLE REG' NO:.....

PIN CODE:.....

TELEPHONE NO:.....

ALARM MODEL NO:.....**M40**.....

ALARM PURCHASED FROM:.....

DATE PURCHASED:.....

INSTALLED BY:.....

DATE INSTALLED:.....

INSTALLER SIGNATURE:.....

OWNERS SIGNATURE:.....

Dealer stamp

Please complete the above details, detach from this manual and keep in a safe place. These details should be presented to your Mongoose dealer in the unlikely event that you require this product to be repaired under the terms of the 'product warranty'. Refer 'Warranty Conditions'. Failure to provide this 'Proof of Purchase' may result in rectification charges being made. If you sell the vehicle within the warranty term, please pass on this on to the new owner.

A modified ignition key can be inserted into the remote control as shown in the photographs below.

A removable blanking plate in the remote is the template for cutting the ignition key.





**Mongoose (Australia) Pty Limited  
Sydney, Brisbane  
Mongoose (New Zealand) Limited  
Auckland**

**For service, please contact the Mongoose dealer who installed this product;**