M80II

2in1 Vehicle Security System

For Use With Supplied M80II Remotes

MODELS: M80II, M80GII
3 YEAR PRODUCT WARRANTY

M80II - 4 Star Rated
M80GII - 5 Star Rated

These products should be installed according to the requirements of the AS/NZS3749.2 Installation Standard.
Installation should only be carried out by suitably qualified persons.

MONGOOSE M80II REMOTE CONTROL

2 Supplied

BUTTON 'ONE' ONLY
'ARM or DISARM'
PRESS ONCE FOR 1SECOND TO ARM OR DISARM THE SECURITY SYSTEM -
(DOORS WILL ALSO LOCK OR UNLOCK IF THE CENTRAL LOCKING HAS BEEN CONNECTED)

BUTTON 'TWO' ONLY
PRESS FOR 3 SECONDS FOR 'AUXILIARY OUTPUT' (EG: BOOT RELEASE)

BUTTON 'TWO' THEN 'ONE'
'SILENT ARM or DISARM'
THIS SEQUENCE WILL SILENTLY ARM OR DIS-ARM THE ALARM

BUTTON 'THREE'
'PANIC'
PRESS FOR 3 SECONDS TO SOUND THE ALARM SYSTEM.
PRESS AGAIN TO CANCEL.

PRESS and HOLD Button 2 and 3
WITH IGNITION ON TO TURN TURBO TIMER ON/OFF

BUTTON 'ONE' THEN 'THREE'
'SENSOR BYPASS'
THIS DEACTIVATES ANY CONNECTED SENSOR.
ONLY DEACTIVATE SENSORS TO REDUCE THE POSSIBILITY OF FALSE ALARMS.

BUTTON 'TWO' & 'THREE' TOGETHER
'CAR FINDER'
PRESS BOTH BUTTONS FOR 1 SECOND.
SIREN SOUNDS BRIEFLY AND LIGHTS FLASH TO SHOW VEHICLE LOCATION

The features above only apply when the alarm system is installed for operation by the supplied remotes only.

ARMING

- ❑ Exit the vehicle and ensure all doors, bonnet & boot are closed.
- ❑ Press button **one** on the M80II remote control.
  The indicators flash once and the siren chirps once to indicate that the system is armed.
  The dash board warning light, LED, will slow flash to indicate the system is armed.

OPEN CIRCUIT BYPASS

If any door, the bonnet or boot is left open when you arm the system, the siren will chirp once for initial arming and then chirp a 2nd time to inform you a circuit is still open. The dash mounted LED will flash a code for 30 seconds showing you what is open (see page 9). If ignored and not closed, that circuit will not be protected. The open circuit will automatically arm upon closure.

DISARMING

- ❑ Press button **one** on the M80II remote control.
  The siren will chirp twice and the indicators will flash twice.
- ❑ The doors will unlock if the vehicles' central locking is connected to the security system.

AUTOMATIC ENGINE DISABLE (TRIPLE IMMOBILISER)

This is a mandatory 'AS/NZS Standards' feature.

The dashboard LED will start to fast flash for 30 seconds after the engine has been turned off to indicate the automatic sequence has commenced. After 30 seconds, the siren will chirp once, the indicators will flash once and the dashboard LED will slow flash to confirm engine is immobilised.

Only the engine is immobilised, the alarm system is not yet armed.

If an attempt is made to start the engine whilst immobilised, the siren will chirp a warning

MONGOOSE M80II REMOTE CONTROLLED FEATURES

SILENT ARM / DISARM (no siren chirps)

Press button **two** and then button **one** to silently arm or disarm the system.
The chirps may be permanently turned off via the programming options – see your installer.

SENSOR DISABLE BY REMOTE

There are times when you may wish to deactivate sensors, such as the impact sensor, to prevent false alarms. To turn sensors off (any attached sensor will be disabled), but arm the bonnet, boot and doors and immobilise the engine, press button **one** followed by button **three**. You will hear the siren chirp for arming followed by a tone indicating the sensors are turned off. The sensor is re-activated upon subsequent arming.

CAR FINDER

Many cars these days look very similar, this handy feature lets you find your car in a crowded car park. Press both button **two** and **three** remote for 1 second. The siren sounds for 2 seconds and the indicators flash for 10 seconds. (Assuming the vehicle is within remote range)

PANIC BY REMOTE (in either armed or disarmed state)

In the event of personal attack, or you suspect that your vehicle is being tampered with, the alarm can be 'panicked' by pressing button **three** on the remote for more than 3 seconds. The siren will sound and the indicators will flash.
Cancel the panic, by pressing button **three** again.
Pressing button one whilst the siren is sounding will either arm or disarm the system depending on the prior armed/disarmed state.

BOOT RELEASE (AUXILIARY OUTPUT) – OPTIONAL CONNECTION

The system provides an optional output to control a vehicle's electric boot release (if the vehicle is equipped). This may incur additional charges.

- ❑ Press button two on the remote for 3 seconds and the boot will unlock and open
- ❑ The boot trigger circuit and interior sensors (if fitted) will be bypassed
- ❑ Upon closing the boot the bypassed circuits will re-arm automatically

BUILT-IN TURBO TIMER

The timer is programmable for duration from 1 to 5 minutes - see 'programming', page 20.
This feature may be used to allow the vehicles turbo/engine to cool down.

To turn the timer on: - Ignition on, press and hold for 3 seconds remote buttons ***2 & 3 at the same time.*** Siren chirps once to confirm 'ON'. The timer will now always be ON each time the vehicle is used.(Nb. this will return Last door arming #13 and Auto door lock #14 to the default off programming)

To turn the timer off:- repeat the above procedure – siren chirps twice to signify the timer is OFF.

To stop the engine if running by the timer:- press and hold buttons 2 & 3 at the same time

NOTE: When the engine is running, arming the alarm does not immediately immobilise the engine or turn on any sensors. An intrusion by opening any door, bonnet or boot will immediately stop and immobilise the engine and trigger the alarm.

To arm with timer ON:-

- ❑ Turn the ignition off (engine remains running if timer is ON – engine stops if timer is OFF)
- ❑ Exit the vehicle ensuring gearbox in neutral, all doors, bonnet & boot are closed.
- ❑ Arm the alarm by the remote – ***requires a longer press than normal (a couple of seconds)*.**
- ❑ After the programmed time, the engine stops, the immobilisers engage and sensors arm.

FEATURES

INTRUSION ALERT

Upon disarming, if the siren chirps 4 times and the indicators flash 3 times it means the system has been triggered. Refer to the LED flash codes on page 9 to show which circuit has been triggered.

AUTOMATIC SECURITY RE-ARM & RE-LOCK (vehicle system & installation dependant)

The alarm will automatically fully re-arm (and re-lock the doors if connected) if it has been disarmed by remote but a door has not been opened within 30 seconds. The lights flash once as confirmation of re-arming. *This feature cannot be turned off.*

If a door, bonnet or boot is opened after disarming, the alarm will not re-arm and the doors will not re-lock but the engine will re-immobilise.

AUTOMATIC RE-SET

An intrusion will cause the siren to sound for 30 seconds. It will stop and reset to the armed position. It will then re-trigger on the next intrusion.

If a door is left open, the siren will sound for 3 x 30 seconds and then that individual circuit will be bypassed to avoid unnecessary noise.

ARM CONDITION MEMORY

Should the vehicle battery be disconnected, the system memorises the last set position of the alarm. If the alarm was disarmed prior to battery disconnection, reconnection does not cause the alarm to sound. If the battery was disconnected whilst the system was armed, reconnection will return the system to the armed state.

NOISE POLLUTION CONTROL

To reduce noise nuisance and possible false alarms, the system will isolate an individual circuit if it is triggered more than three times in succession or is left open.

(Eg: 3 x bonnet, 3 x boot, 3 x doors, 3 x ignition, 3 x impact sensor, 3 x other sensor)

Reset by remote by disarming and then re-arming. Turn ignition ON/OFF to re-set LED intrusion codes.

IGNITION, BONNET, BOOT & DOORS – 30 second siren – 60 second light flash
When armed, the siren will sound for 30 seconds and the indicators will flash for 60 seconds when any of these are triggered. If a door, bonnet or boot has been opened and left open, the siren will sound for 90 seconds (3 x 30 seconds) and the indicators will flash. The open circuit will then be bypassed.
(If the NSW programme has been enabled, the siren will sound once only for 30 seconds)

2 STAGE IMPACT SENSOR
This sensor is designed to detect impact to the vehicle such as to the bodywork or glass. It should not be triggered by normal wind, or rocking motions.

- ❑ If the sensor detects a light impact, the siren will sound a few warning chirps.
- ❑ If the sensor detects a heavier impact, the analyser circuit will determine this and sound the siren for 30 seconds and flash the lights.

The sensitivity level is set by the installer and should be at its optimum. Avoid over sensitivity as people nearby may not respond due to too many false alarms. (This type of sensor may not prevent wheel theft; we therefore advise the fitment of locking wheel nuts)

GLASS BREAK SENSOR (M80GII models)
This sensor is designed to trigger the alarm by detecting the sound of actual glass breakage. The sensitivity level is set by the installer and should be at its optimum.

BATTERY BACK-UP SIREN
Vehicle battery disconnection will cause the battery back-up siren to sound. The siren can be turned off with the keys provided.
The siren is mounted under the bonnet and should be situated in a place to protect it from heat and water damage. Driving through deep water or puddles may cause water splashes, so caution is advised. Please check that the siren has been mounted in such a position so as to avoid damaging it. If washing the engine bay, cover the siren with a plastic bag to prevent water damage.
Heat or water damage is not covered by the product warranty.

DIAGNOSTIC FLASH AND SOUND CODES

INDICATOR FLASHING

a) 1 Flash - Armed.
b) 2 Flash - Disarmed.
c) 3 Flash - Disarmed and previously triggered.
d) On for 15 seconds – Perimeter Nite Lite program is on

LED - DASH MOUNTED WARNING LIGHT

a) Fast flashing - counting down of automatic functions.
b) Slow flashing - armed.
c) LED off - system disconnected, or no car battery power
d) On permanently - in programming mode
e) 1 flash, pause - bonnet is open or triggered.
f) 2 flash, pause - boot is open or triggered.
g) 3 flash, pause - a door is open or triggered.
h) 4 flash, pause - impact sensor has been triggered.
i) 5 flash, pause - engine start attempted
j) 6 flash, pause - glass break sensor triggered ('G' model)

CHIRP CONFIRMATION & CODES

a) 1 Chirp - Arm.
b) 1 Chirp/short siren - Indicates an open circuit when arming.
c) 2 Chirps - Disarmed.
d) 4 Chirps - Disarming and indicates that the alarm has been triggered.
e) Continual chirps - Ignition has been turned on when the engine is immobilised

PROGRAMMABLE OPTIONS

These should only be changed by your installer.

AUTOMATIC (LAST DOOR) ARMING (default = OFF) – also OFF when turbo timer is on
When programmed ON, the alarm will arm automatically 30 seconds after the last door is closed.

AUTOMATIC DOOR LOCK (default = OFF) - also OFF when turbo timer is on
The doors will lock automatically 30 seconds after the last door is closed.
WARNING: DO NOT LEAVE THE KEYS IN THE CAR !
This feature only operates if 'last door arming' above has been programmed ON.

IGNITION SAFETY DOOR LOCK (default = OFF) - also OFF when turbo timer is on
If the system has been connected to a vehicles' central locking, the doors will lock 3 seconds after the ignition is switched 'on' and unlock immediately when the ignition is turned 'off'.
If a door is left open whilst starting the engine this feature will be bypassed.

SIREN CHIRPS (default = ON)
The chirps can be permanently turned off. Only the indicators confirm the arming and disarming.
The siren chirp for the automatic engine immobiliser cannot be turned off.

NSW SIREN TIMING (default = OFF)
It is a mandatory requirement in New South Wales, Australia, for vehicle alarm systems to sound the siren for one cycle of 30 seconds only before it is re-set manually by remote control. With this feature turned on, the indicators will flash for any subsequent trigger.

PERIMETER NITE-LITE (default = OFF)
Upon disarming, the indicators will stay permanently lit for 15 seconds to provide perimeter illumination. Ask the installer to verify that the power consumption of all the indicators is within the tolerance of this product- maximum 8 amps per side.

SIREN/HORN OUTPUT (default = siren)
This programme allows for connection to a vehicle horn. The output is then pulsed.

DOOR DIAGNOSTICS (default = ON)
This is factory set to ON. If for example a door is left open when arming, the siren chirps once for ARM then after a short pause, chirps a second time to signify a circuit is open. Some vehicles which have 'dome light delay' may give a false signal – this feature should then be programmed OFF.

BUILT-IN TURBO TIMER (default = 1 minute)
This allows an engine to remain running from its built-in timer. The programme allows for an engine running time of 1, 2, 3, 4 or 5 minutes.

ROLLING CODE REMOTE CONTROLS

Two remote controls are supplied with the system which enable you to arm and disarm your security system. If the remote gets wet due to submersion, immediately dismantle, remove the battery and dry as soon as possible. If submersed in salt water, rinse in fresh water and dry.
Water ingress and any subsequent remote failure is not covered under the warranty terms.
The remote security code of your alarm system changes each time you press the remote button. This coding system is referred to as Rolling Code and is completely random therefore eliminating the possibility of anyone recording it (code grabbing).
The batteries in the remote controls should be changed annually or when you notice any change in operation of the security system (usually shorter operating range).

REMOTE CODE LEARNING – Max' 4
If you wish to add new or further remotes, they need to be memorised into the alarm system.
An irregular or interruption to the vehicle's power supply may cause loss of remote memory.

PROGRAM REMOTES
1: Disarm – open driver's door (Keep door open while programming) - LED starts fast flashing

2: Within 10sec turn IGN on - the LED will now light solid for 10 seconds

3: Within 10sec, turn IGN OFF then back ON

4: The LED stays on & the siren chirps 3 times to confirm remote code learning mode

5: Press button one on the new remote - siren chirps once to confirm

6: Press button one on a 2nd remote you wish learnt – siren chirps twice to confirm

7: To finish, turn the ignition off or wait 10 seconds to end of programming - siren chirps quickly 3

times

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 remote from memory:
If you lose a remote, it is recommended that it is deleted from memory so someone else cannot use it. Enter learning mode as detailed above and memorise the existing remote(s) once. The lost remote is now deleted. When a replacement is obtained, learn both the existing and new remotes into memory as detailed above.

EMERGENCY OVERRIDE – 4 DIGIT PIN CODED

If your remote controls are lost or inoperable, the system can be disarmed by your the unique 4 digit PIN code issued with this product.

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

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

Enter the code by turning the ignition ON or OFF in sequence with the dash mounted LED.

1) **Ignition ON** - LED lights solid
2) **Ignition OFF** - LED will start flashing
3) Count the number of flashes for the first number….**4** in our example
4) During the **4th** flash, turn the **Ignition ON** - LED will light solid
5) **repeat steps 2 to 4 for next 3 numbers**
6) **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).

TESTING YOUR ALARM

We strongly recommend that you frequently test your alarm.

1) Without disarming the system, unlock and open a door with the ignition key - the alarm should sound. Check all other doors, bonnet and boot by the same procedure.
2) Check the impact sensor by giving the vehicle varying degrees of impact - be careful to do this on areas of the vehicle not likely to be damaged by impact. Light impacts should chirp the siren whilst heavier impacts should fully sound the siren.
3) Check the glass break sensor, (M80GII) by tapping the glass with a 50 cent coin. Varying degrees of tapping should be tried to see the level of sensitivity. Be careful not to break the glass.
4) Enter the vehicle and shut all doors, arm the system by remote and try to start the engine to test the engine immobiliser - it should not start and the siren should sound.
5) To test the optional ultrasonic sensors, if fitted, enter the vehicle, shut all doors and windows, arm the system and allow it to stabilise for 10 seconds. Now wave or clap your hands – the alarm should sound.
6) To test the optional microwave sensor, if fitted, arm the system and wait at least 20 seconds for the sensor to stabilise. Moving a hand over the outside of side windows should chirp the siren.

   To test the perimeter field size, repeat this movement on the outside of all glass areas.

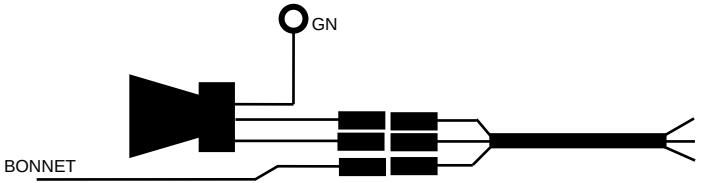
   To test the interior, leave a window open when arming and reach in and wave an arm around - The siren should fully sound.

The following pages are for the installation of this security system

WIRING INFORMATION: Installation to be carried out by suitably qualified persons.

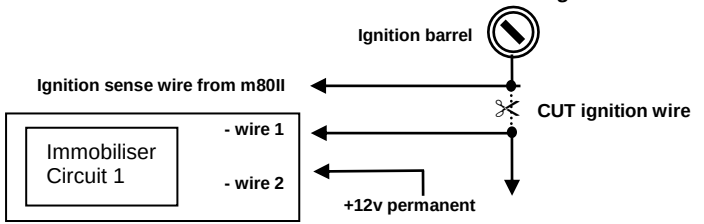
SIREN / BONNET

BATTERY BACK-UP



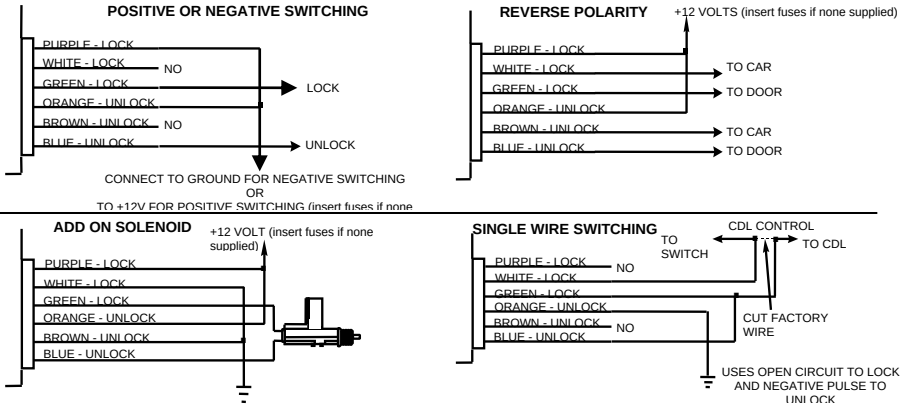
BUILT-IN TURBO TIMER

Must use immobiliser circuit # 1 for ignition



Use immobiliser circuits #2 & #3 for other circuits

CENTRAL LOCKING CONNECTION OPTIONS



PROGRAMMABLE OPTIONS

1: Disarm – open driver's door (Keep door open while programming) - LED starts fast flashing

2: Within 10sec' turn IGN on - the LED will now light solid for 10 seconds

3: Within 10 sec press remote button 3 to confirm programming mode. The LED will start slow flashing

4: Count the LED flashes to choose the program to change (eg:7 for siren chirps)

5: As the LED is lighting the 7th time (as our example), press button three on the remote to input #7.

6: Siren chirps 7 times to confirm programme number 7

7: Press button one on the remote to turn the feature "ON" - siren chirps once

Press button two on the remote to turn feature "OFF" - siren chirps twice

8: Turn the ignition off or wait 10 seconds to EXIT programming. Siren fast chirps 3 times to confirm end.

Repeat procedure to change any other programme.

For turbo timer run time – as above except '17';

7. Press button one to select run time – each press increases by 1 minute (1 to 5).
The number of chirps confirms selected number of minutes.

*** BOLD** = default setting

	FEATURE	LED ON / ONE CHIRP (Button 1 of remote)	LED OFF/TWO CHIRPS (Button 2 of remote)
4	DISARM #2 INPUT TYPE	∗**LIGHT FLASH**	DISARM DEFEAT
5	DISARM #2 POLARITY	∗**(+)**	(-)
6	AUTO ENGINE DISABLE CH2 OUTPUT / BOOT BYPASS	***AED +CH2 output**	AED off + Boot bypass (Only for use when configured as an 'upgrade')
7	SIREN CHIRPS	∗**ON**	OFF
8	LIGHT FLASH CONFIRMATION	∗**ON**	OFF
9	IGNITION DOOR LOCK	ON	∗**OFF**
10	CDL PULSE	∗**0.8SEC**	3.5SEC
11	SIREN OR HORN OUTPUT	∗**SIREN**	HORN
12	DOOR DIAGNOSTICS	∗**ON**	OFF
13	LAST DOOR ARMING	ON	∗**OFF**
14	AUTO DOOR LOCK	ON	∗**OFF**
15	PERIMETER NITE LITE	ON	∗**OFF**
16	NSW SIREN TIMING	ON	∗**OFF**
17	TURBO RUN TIME (Not applicable in Upgrade mode)	Each press = 1 MINUTE (max' 5 mins) **Default 1 minute.**	
18	DOOR INPUT POLARITY	(+) Cut wire loop (See note next page)	∗**(-)**
19	RESET	ON (Once reset – chirps 3 times + lights flash 3 times)	-

DOOR TRIGGER (3 second delay to allow for dome light)
The door trigger is default a (-) negative input.
To change to a positive input, cut the loop wire and change program #18 to OFF (+) .
Please ensure when a new M80II unit is installed programing MUST be done with the doors closed only for the initial programing of the positive doors, there after normal instructions may be followed.

NOTE: If the dome light comes on during unlocking, the auto rearming of the alarm function may be cancelled if the vehicle does not have an automatic re-lock function. Use door trigger wires that are unaffected by the dome light if auto re-arm is required.

3 YEAR PRODUCT WARRANTY

PRODUCT WARRANTY

Mongoose warrants for a period of 3 years from date of installation 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 to an appropriate vehicle.
(d) it has been installed according to the AS/NZS 3749.2 Installation Standards and/or to our written instructions.
(d) 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
- (vi) any work carried out on the alarm by someone other than an authorised Mongoose installation centre
- (vii) misuse, accident, deliberate act or abuse (eg: misdirected electrical current, ingress of water or fluid, vehicle damage)

Exclusions;

(1) labour costs for removal & refitting of parts
(2) batteries, i.e. remote controls
(3) alarms operated outside the original country of purchase
(4) transportation costs of getting a vehicle to a repair centre
(5) consequential costs of vehicle non-operation where the remote controls or PIN code card are lost, not available, or an inability to use
(6) mobile service/repair costs
(7) normal wear and tear
(8) freight costs of parts to rectification centres
(9) fitment to a non-appropriate vehicle or other device

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 the warranty but up to a period of 3 years from original date of purchase.
b) If the original owner has the system re-installed into an alternative vehicle by an authorised Mongoose installation centre, this warranty is limited to 3 years from original date of purchase. If re-installed by an unauthorised person, this warranty ceases.

PROOF OF PURCHASE

DO NOT LEAVE THIS INFORMATION IN THE VEHICLE

OWNERS NAME:……..

ADDRESS:……..

……..…….

TELEPHONE NO:……..

VEHICLE MAKE/MODEL.…….……..

VEHICLE REG' NO:.…….……

ALARM MODEL NO:…..…….…….

OVERRIDE PIN CODE:…….……

ALARM PURCHASED FROM:……..

DATE PURCHASED:.…….

INSTALLED BY:..……

DATE INSTALLED:…….

INSTALLER SIGNATURE:……

OWNERS SIGNATURE:……

Dealer

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.

Mongoose (Australia) Pty Limited
www.mongoose.com.au
Mongoose (New Zealand) Limited
www.mongoose.co.nz

Manufactured for:	Mongoose (Australia) Pty Ltd
Make & Model Number:	Mongoose M80II
Country of manufacture:	Taiwan R.O.C.
Supply voltage:	12v DC nominal – negative ground
Current consumption:	14~22mAmp (depending on alarm accessories)
Suitability:	All vehicles with 12v DC negative earth batteries
Date of manufacture:	Refer date code on alarm 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 (or towage) are the responsibility of the vehicle owner/driver.