



Model number: **M8 & M824**

VEHICLE ALARM SYSTEM

Owner's Operation/Installation Manual

Please read and try out all the features

For correct operation and warranty compliance,
we recommend professional installation of this
product by your authorised Mongoose dealer.

M8 Suitable for 12volt, negative ground vehicles
M824 Suitable for 24volt, negative ground vehicles

Congratulations on your purchase of this state-of-the-art Mongoose security system.

To fully appreciate the many functions and safeguards incorporated in this system, please spend a few minutes reading this manual.

You may find unexpected features that could mean the difference between “protected” and “fully protected”.

FEATURES:

-
- 2 x 3 Button Remote Controls
- Code Learning – Code Hopping Remotes (capable of accepting 4)
- Bonnet, Boot & Door Protection
- Engine Immobiliser
- On-Board Adjustable Shock Sensor
- Electronic Siren
- Remote Panic
- Valet Mode
- Park Light Flash
- 7 Function Hyper Blue LED - Arm / Disarm / 3 Zone Reporting / Valet / Arming
- Intrusion Alert with Memory
- Audible Arm / Disarm / Defective Zone / Tamper Confirmation
- Ignition Door Lock/Unlock - Programmable
- Chirps (Arm/Disarm) Defeat – Programmable
- Automatic Last Door Arming – Programmable
- Automatic Door Lock - Programmable
- Defective Zone By-Pass

ALARM REMOTE CONTROL – 2 supplied



BUTTON 1

'ARM' (& LOCK)
PRESS FOR 1.5 SECONDS

PANIC
PRESS FOR 3 SECONDS

BUTTON 2

'DISARM' (& UNLOCK)
PRESS FOR 1.5 SECONDS

BUTTON 3

BOOT RELEASE
(If vehicle equipped)

CANCEL 'PANIC'

OPERATING YOUR VEHICLE SECURITY SYSTEM

ARMING (& LOCKING*)

Turn off the engine, exit the vehicle and close all doors, bonnet and boot.

REMOTE- Press and release the 'Arm (Lock)' button on the keychain transmitter. The siren will "chirp" once, the vehicle's parking lights will flash once, the doors will lock (optional), and the dash mounted LED will begin to slow flash.

WARNING! Excessive pressure on the transmitter buttons will damage the internal components on the circuit board. All that is required is a light push to the button.

DEFECTIVE ZONE BYPASS

1. If the siren "chirped" three times when 'Armed', then one of the entry points (bonnet, boot, doors) has been left open. Closing the open circuit will correct the problem.
2. If the siren "chirped" three times, sometime after arming, the exclusive delayed domelight learn circuit has been programmed and the system detected a open entry point after the learned delay expired. Again, closing the circuit will correct the problem and you do not need to disarm the system to make the correction.

LAST DOOR AUTO ARM *PROGRAMMABLE

Turn off the engine, exit the vehicle and close all doors, bonnet and boot.

The Dash LED will begin to flash rapidly, indicating that the system is automatically (passive) arming.

Passive arming will not begin till after all doors and boot are closed.

In 30 seconds, you will hear a single short "chirp" from the siren and the vehicle and the vehicle parking lights will flash once indicating the system is now armed. The LED will begin to flash slowly indicating the system is fully armed.

Opening a door will suspend the automatic arming sequence.

If you wish to arm the system immediately, simply press the ARM button on the keychain transmitter.

DISARMING (& UNLOCKING*)

As you approach the vehicle, press and release the 'Disarm (Unlock)' button on the keychain transmitter. The siren will "chirp" 2 times and the vehicle's parking lamps will flash two times. The dash mounted LED will flash until door is opened, and then remain off until the system is re-armed.

AUTOMATIC – PASSIVE LAST DOOR LOCKING – PROGRAMABLE

IF central door locking connected to security system It is the same sequence as above except that the doors will also lock automatically.

If you wish to arm the system immediately, simply press and release the ARMING button on the remote.

PROTECTION WHILE THE SYSTEM IS ARMED:

Opening any door, bonnet or boot will cause the alarm to sound. The siren will continue to sound for 30 seconds, then stop and automatically re-arm the vehicle.

If a door is left open, the siren will sound for six 30 second cycles, then re-arm and ignore the opened door.

Any strong impact to the vehicle's glass will cause the alarm to trigger for the full 30 second alarm cycle, whenever the system is armed, the dash mounted LED indicator will slowly flash. This serves as a visual deterrent to the potential thief. The LED is a very low current bulb and will not cause the vehicle's battery to drain, even when left unattended for extended periods.

Whenever the system is triggered, the vehicle's parking lights will flash for the 30 second alarm cycle, attracting added visual attention to the vehicle.

Whenever the system is armed, the vehicle's starter will be immobilised. This prevents the engine from being started.

INTRUSION WARNING SIGNALS:

The system will inform you if an intrusion attempt has occurred while you were away from the vehicle.

If an intrusion attempt has occurred, the siren will "chirp" 4 times when disarming the system.

The vehicle's parking lights will also flash 3 times to indicate an intrusion has occurred.

Enter the vehicle and observe the dash mounted LED...it will flash a code.

If the LED is flashing one time... pause...one time... etc., then the alarm was triggered via the shock sensor.

If the LED is flashing two times...pause. ..two times...etc., then the alarm was triggered via the bonnet or bootor an optional sensor, such as a glass break sensor, has been connected to one of these circuits. If the LED is flashing three times...pause...three times...etc., then an intrusion attempt was made through one of the vehicle's doors.

These intrusion warning indicators are stored in the system's memory and will only be erased from memory when the ignition key is turned on.

ELIMINATING THE ARM / DISARM CHIRPS:

The normal arming and disarming confirmation "chirps" can easily be turned on and off using the valet push button switch.

To do this:

Turn the ignition key on, and then off.

Within 10 seconds of turning the ignition key off, press and release the LED valet push button switch three times.

If the chirps were on, then you will hear 2 chirps to indicate that the chirps have been turned off.

If the chirps were off, then you will hear 1 chirp to indicate that the chirps have been turned on.

NOTE:

Whenever the chirps are by-passed, the defect and intrusion chirps will always operate.

BOOT RELEASE BY REMOTE

If your vehicle is equipped with electric release of the boot, it can be connected to this alarm system. This may incur additional charges. Press the 'boot' button on the remote control to activate.

PANIC

In the event of personal attack, the alarm can be 'panicked' by pressing the 'arm' button on the remote control button for 3 seconds.

Press the 'boot' button on the remote control to cancel. It auto cancels after 30 seconds.

ELECTRONIC SIREN

This is mounted under the bonnet and must be situated in a place to protect it from heat and water damage such as driving through deep water or engine cleaning. If washing the engine bay, cover the siren with a plastic bag to prevent damage. Heat or water damage is not covered by the warranty.

IGNITION SAFETY DOOR LOCK/UNLOCK (Programmable)

If the central locking is connected to this security system, the doors will automatically lock after 1 second when the engine is started (or ignition is turned on). The doors will unlock when the ignition is turned off.

If a door is left open during engine starting, the doors will not lock.

'Lock' and 'unlock' can be programmed separately.

REMOTE CONTROL CODE LEARNING

If you need to replace a remote control, it must be memorised to the alarm system before it can be used.

A power surge or interruption to the power supply may cause loss of memory.

If your alarm fails to respond to the remote try re-learning them.

The following action deletes any previous remotes, so all existing remotes must be memorised with this sequence.

- Turn the ignition key to the ON position.
- Press and release the valet/programming switch 3 times (Siren Chirps)

Press the Lock Button of each transmitter you want programmed until you hear a chirp from the siren.

Press and release the valet/programming switch 1 time to advance to channel 2 UNLOCK. Press the unlock button of each transmitter you want to unlock the vehicle.

Press and release the valet/programming switch 1 time to advance to channel 3 BOOT. Press the boot button of each transmitter you want to operate the boot release of the vehicle.

Turn the ignition switch to the OFF position.

The above action programs the Lock, Unlock and Boot Release functions of the system

HIDDEN PUSH BUTTON LED VALET / OVERRIDE / PROGRAMMING SWITCH:

Make sure your installer of this security system shows you where the hidden switch is located.

The "Valet" switch allows you to temporarily bypass all alarm functions. In valet mode, all alarm functions are bypassed, however, the remote panic feature and remote door locks (optional) will remain operational.

To use the valet mode, enter the vehicle and turn the ignition key to the ON position.

Press and hold the hidden LED valet push button switch for 5 seconds until the LED turns on solid. The LED will remain on as long as the system is in the valet mode.

To return to normal operation, with the ignition switch on, press and release the LED valet push button switch one time. The LED will turn off indicating the unit has been returned to the normal mode of operation.

In the event you lose your keychain transmitter, or if the transmitter fails to disarm the system, the valet switch can be used as a system override switch.

Open the car door (the alarm will sound). Turn the ignition key on, and press and hold the LED valet switch on. The alarm will stop sounding, and the vehicle can now be started.

INDICATOR LIGHT FLASH CONFIRMATION / CODES

This is a visual indication of system status.

- A) 1 Flash - Armed
- B) 2 Flash - Disarmed
- C) 3 Flash - Indicates system has been triggered

SIREN CHIRP CODES

This is an audible indication of system status.

- A) 1 Chirp - Armed
- B) 2 Chirps - Disarmed
- C) 3 Chirps - Open circuit when arming
- D) 4 Chirps - Intrusion upon disarm

DASH MOUNTED WARNING LIGHT - LED

Located on or near the dashboard area, the LED is a small flashing light that indicates the vehicle is fitted with a security system. The LED also tells the status of the alarm;

- A) Slow flashing - System armed
- B) Fast flashing - Countdown for automatic passive arming
- B) LED off - System is off
- C) Solid lit - Valet mode
- D) 1 flash - Shock sensor triggered
- E) 2 flash - Bonnet or boot triggered (or optional sensor)
- F) 3 flash - Door triggered

REMOTE CONTROL CODE LEARNING

If you need to replace a remote control, it must be memorised to the alarm system before it can be used.

A power surge or interruption to the power supply may cause loss of memory.

If your alarm fails to respond to the remote try re-learning them.

The following action deletes any previous remotes, so all existing remotes must be memorised with this sequence.

- Turn the ignition key to the ON position.
- Press and release the valet/programming switch 3 times (Siren Chirps)
- Press the Lock Button of each transmitter you want programmed until you hear a chirp from the siren.
- Press and release the valet/programming switch 1 time to advance to channel 2 UNLOCK. Press the unlock button of each transmitter you want to unlock the vehicle.
- Press and release the valet/programming switch 1 time to advance to channel 3 BOOT. Press the boot button of each transmitter you want to operate the boot release of the vehicle.
- Turn the ignition switch to the OFF position.

The above action programs the Lock, Unlock and Boot Release functions of the system

INSTALLATION

It is strongly recommended that this product be professionally installed.

MAIN CONTROL MODULE

Select a mounting location inside the passenger compartment (up behind the dash) and secure to the vehicle body structure using screws. As the control module contains a built-in shock sensor, mounting by cable ties maybe ineffective. The shock sensor may have to be adjusted later so be sure to have the adjusting screw accessible after mounting.

CAUTION: Do not mount the control module in the engine compartment, as it is not waterproof. You should also avoid mounting the unit directly onto factory installed electronic components. These components may cause RF interference, which can result in poor transmitter range or intermittent operation.

VALET PUSH BUTTON SWITCH

Select a desired mounting location for the switch, that is easily accessible to the driver of the vehicle but hidden from obvious view.

Ensure the vehicle owner knows the location of this switch.

DOMELIGHT DELAY PROGRAMMING

Depending on the vehicle, you may get a false open circuit warning when arming (4 chirps) which is caused by the dome light being on. The system has the ability to learn this delay by the following sequence;

- (1) Use the remote transmitter to Lock / Unlock / Lock / Unlock / Lock / Unlock / Lock, the system. The LED turns on solid to confirm the system entered the learn mode.
- (2) Immediately open and close the door of the vehicle to initiate the dome delay. The unit will monitor the door trigger input.
- (3) When the dome light turns off, the unit will add 2 seconds then exit the learn mode.

ADJUSTING THE SHOCK SENSOR

The sensitivity of the sensor is adjusted by turning the adjustment knob located on the side of the alarm module clockwise to increase and counter clockwise to decrease.

(1) Close the doors, bonnet and boot and arm the alarm. Leave the driver's window open.

(2) Wait 6 seconds for the shock sensor to stabilise

(3) Test A:

Firmly strike the vehicle (rear bumper or wheels) with the side of a closed fist considering the amount of force required to break a window.

Test B:

Reach in through the open window and give the steering wheel a reasonable impact.

Try different degrees of impact to ascertain the sensors sensitivity to see if adjustment is required.

(4) Turn the adjustment screw slightly clockwise to increase sensitivity and counter clockwise to decrease sensitivity. (DO NOT over turn this screw. Maximum rotation for this adjustment is 270°).

(5) Only adjust in small increments and re-test with each adjustment.

(6) Repeat this procedure until satisfied with the sensitivity all around the vehicle.

WARNING! Never perform this test on the vehicle's glass !

CAUTION: Setting the sensitivity too high can cause false alarms due to noise/vibrations from passing trucks, heavy equipment and loud exhausts.

PROGAMMABLE OPTIONS

Program Part 1 New Remote Learning

If you need to replace a remote control, it must be memorised to the alarm system before it can be used.

A power surge or interruption to the power supply may cause loss of memory.

If your alarm fails to respond to the remote try re-learning them.

The following action deletes any previous remotes, so all existing remotes must be memorised with this sequence.

1. Turn the ignition key to the ON position.
2. Press and release the valet/programming switch 3 times (Siren Chirps)
3. Press the Lock Button of each transmitter you want programmed until you hear a chirp from the siren.
4. Press and release the valet/programming switch 1 time to advance to channel 2 UNLOCK. Press the unlock button of each transmitter you want to unlock the vehicle.
5. Press and release the valet/programming switch 1 time to advance to channel 3 BOOT. Press the boot button of each transmitter you want to operate the boot release of the vehicle.
6. Turn the ignition switch to the OFF position.

The above action programs the Lock, Unlock and Boot Release functions of the system

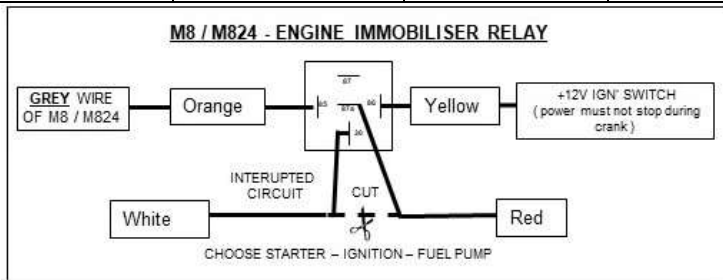
Program Part 2 Alarm Features

You can enter Program Part 2 from Part 1 by turning the ignition on and then off from Part 1 Step 4. Siren Short then Long Chirp, OR you can also go right to PART 2 by:

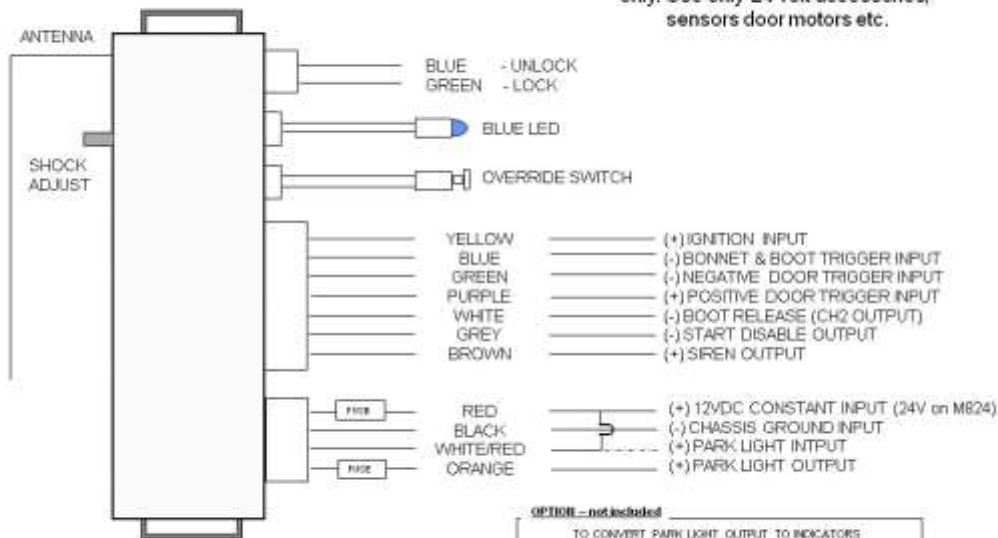
- 1) Turn the ignition ON position
- 2) Press and release the valet/programming switch 3 times (Siren Chirp).
- 3) Turn the ignition key OFF then ON. (Siren Short Then long Chirp)
- 4) This action puts the system into programming mode, prog'#1 Door Locking Pulse, Press program switch again for prog#2 Ignition Lock, etc....

- 5) Use the lock button of the remote to select the setting for the feature. The chirps confirm the setting.
1 chirp = ON 2 chirps = OFF
- 6) To exit the programming mode, turn the ignition key off. The program mode is automatically exited when there is no activity on the valet switch or the remote control for 30 seconds.

Prog' #	Feature	1 Chirp	2 Chirps	3 Chirps	Default
1	Door Locking Pulse	1 Sec	3.5 Sec	1 Sec, Double Unlock	1 Sec.
2	Ignition Lock	On	Off		Off
3	Ignition Unlock	On	Off		Off
4	Auto Door Lock	On	Off		Off
5	Last Door Arming	On	Off		Off



WARNING: M824 is for 24 volt vehicles only. Use only 24 volt accessories, sensors door motors etc.



2 YEAR PRODUCT WARRANTY

Mongoose warrants that it will make good without charge, by repair or replacement with a reasonable equivalent, at Mongoose's discretion, any defect in the product, *excluding defect in installation*, submitted for claim for a period of two years from date of sale provided that;

- (a) the defect has been notified to an authorised Mongoose installation centre or distributor (in the first instance to the original installer
- (b) the alarm is less 24 months old from the date of sale and was manufactured within the last 3 years.
- (c) the alarm has been installed according to our written instructions
- (d) provision of proof of purchase and warranty registration on request.
- (e) an authorised installation centre has determined that the defect complained of is one of workmanship and not caused by;
 - (i) misuse or abuse such as misdirected current, water or fluid damage
 - (ii) operation of alarm after it is known to be defective
 - (iii) accident or deliberate act
 - (iv) alteration or modification of the alarm, or its components, by any party not authorised by Mongoose
 - (v) the fitting of parts or accessories not supplied or approved of by Mongoose
 - (vi) any work carried out on the alarm by someone other than an authorised Mongoose installation centre
 - (vii) any consequential damage
 - (viii) if the alarm is installed by anyone other than an approved installer a limited parts only 6 month warranty may apply

Warranty for the installation is borne by the original installing agent only. This will be chargeable if not returned to the original installer.

Whilst every care is taken by our installers in fitting the alarm, Mongoose takes no responsibility for any damage caused to a vehicle in the installation process. Responsibility is borne by the installer and any claims directed to them.

Exclusions from this warranty are;

- (i) alarms operated outside the original country of purchase
- (ii) batteries, ie; as fitted to the remote controls
- (iii) normal wear and tear
- (iv) transportation of repairs or replacement parts etc. to rectification centers
- (v) faults associated with the installation
- (vi) mobile service costs for repairs
- (vii) labour cost for repairs

THIS WARRANTY IS NOT TRANSFERABLE

DISCLAIMER:

Vehicle security systems are theft deterrents only.

Mongoose does not by inference, intent or any other means guarantee that a vehicle fitted with one of our security systems will not be stolen, broken into, tampered with, or parts taken. We recommend fully comprehensive vehicle insurance and home and contents insurance and to fit other security devices such as additional alarm sensors and locking wheel nuts if the vehicle has expensive wheels and tyres.

PROOF OF PURCHASE
PLEASE RETAIN FOR YOUR RECORDS

OWNERS NAME: _

VEHICLE MAKE: _

ADDRESS: _

VEHICLE MODEL: _

VEHICLE REG' NO: _

TELEPHONE NO: _

ALARM MODEL NO: _

ALARM PURCHASED FROM: _

Dealer

DATE PURCHASED: _

INSTALLED BY: _

DATE INSTALLED: _

INSTALLER SIGNATURE: _

OWNERS SIGNATURE: _

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 this on to the new owner.



Manufactured for: Mongoose (Australia) Pty Ltd
Make & Model Number: Mongoose M8 / M824 Series
Country of manufacture: China
Supply voltage: 12v DC nominal – negative ground
Current consumption: 0.3amps
Suitability: All vehicles with 12v negative earth batteries
Date of manufacture: Refer date code on alarm module case

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Mongoose (New Zealand) Limited
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www.mongoose.co.nz