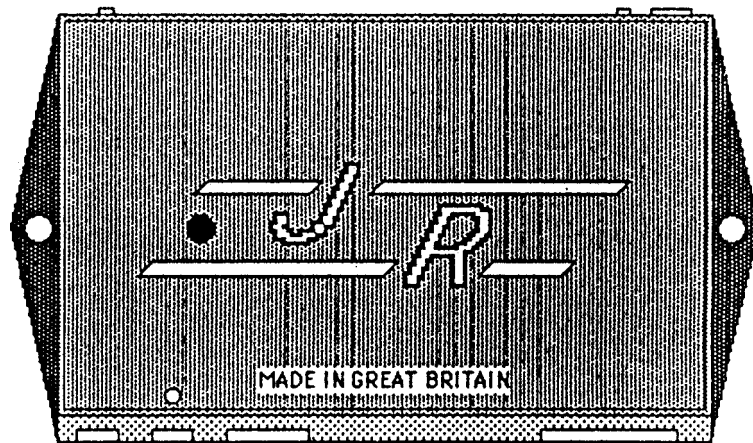


# ELECTRONIC CAR ALARMS



## 'M' Series Operating Instructions

## OPERATING INSTRUCTIONS

1. Depress the key fob once, the hazard lights will give one prolonged flash (optional chirp), this will indicate the alarm has been armed.
2. The dash board warning led will provide indication of sonic detection for 30 seconds, then start to flash indicating that the alarm is in full operation.
3. Depress the key fob again, the hazard lights will flash 3 times indicating the alarm is disarmed.

### Panic Operation

Hold down the key fob continuously for several seconds, the siren will sound and the hazard light will flash the panic will latch and it will not be possible to cancel for 5 seconds.

To stop alarm depress the key fob again.

### Sonic Override

In some circumstances it can be useful to override the ultrasonics, such as leaving pets in the vehicle but still requiring protection via a pin switch and volt sensing detection.

This can be achieved as follows: -

- i. Turn ignition to on position and depress key fob for several seconds, the hazard lights will flash twice and an audible chirp will be heard.
- ii. When the ignition is turned off and the alarm is set, the ultrasonics will be unoperational. The ultrasonics will remain unoperational however many times the alarm is armed/disarmed.
- iii. Once the ignition has been turned on then off again after driving the normal operation of the ultrasonics will be resumed.

### Alarm Indication

If on returning to the vehicle, the dashboard led is not flashing, this indicates alarm has been triggered.

## SPECIFICATION

- Approved to MPT 1340
- Maintenance free lithium powered key fob, upto ten year battery life based on 30 -1 second operations per day (subject to environmental conditions).
- "AASS" system. this "anti annoyance shut down system". Is designed to alleviate annoyance of repeat alarming. if the control software detects repeated triggering consecutively by only one particular method, the alarm will omit detection on that circuit leaving all other detection circuits operational, if detection occurs on another circuit the original omitted circuit is re- instated.
- the above system therefore prevents undue annoyance whilst protecting the battery from excessive drain without compromising the protection of the vehicle.
- Panic facility allows alarm to be activated directly from key fob by holding down button for several seconds.
- Sonic override allows the ultrasonic detectors to be omitted from the detection circuit by pressing the key fob while ignition is on. This feature can be useful for example if pets were to be left in the vehicle and the alarm is required to be set. The ultrasonic circuit will automatically be reinstated next time the vehicle is driven.
- Anti scan resistant software designed to reduce vulnerability from unauthorised attempts to electronically cancel the alarm.
- Full volumetric, pin switch and current sensing protection.
- Non volatile diagnostics records cause of last alarm, instantly retrievable by engineer.
- Self-coding facility for key fob recognition, useful for quick availability of replacement, or same key, also original codes can be cancelled if fobs are lost or stolen.
- Alarm trigger indication confirmed by dashboard led re~1aining on without flashing.
- Automatic current sensing omission, hazard lights can be operated without triggering alarm even if voltage sensing is normally operational
- The alarm uses solid state transistorised power switching, thermally protected thus offering superior overall reliability and prevents the alarm being rendered inoperable by deliberate short circuiting of outputs such as indicators.
- Immobilisation circuit prevents vehicle being "started when alarm is set (MB, MC, & MD models only)
- Alarm will lock doors on arm and unlock doors on disarm on vehicles with central door. Locking systems (MC and MD models only)
- Vehicles that have total closure facilities i.e. sunroof and windows can be closed at the same time, locking the door can be interfaced into the alarm unit so the closing of sunroof and windows will occur automatically when the alarm is set (MD model only)