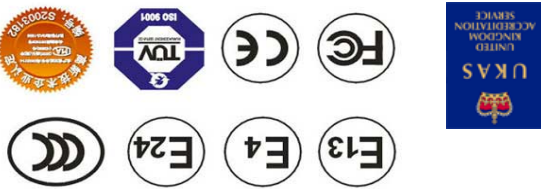




HA-MC01

INSTALLER'S MANUAL



Manufacturer:

COMMERCIAL ELECTRONICS
264 HAYDONS ROAD
WIMBLEDON
LONDON SW19 8TT
UK

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USER GUIDE

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Your motorcycle is fitted with a sophisticated anti-theft & unique anti-tamper alarm and engine immobilisation system (Patent pending).

WARNING

UNAUTHORISED ALTERATIONS OR ADDITIONS TO THE HA-MC01 SYSTEM
MAY INVALIDATE THE WARRANTY.

In order to ensure maximum security, you are advised to gain a full understanding of the system by reading this User Guide.

Tech Helpline for Friendly help & advice Mon-Fri Excl. Public holiday: **020 8180 5881**

It is the policy of Commercial Electronics to continually update and improve our security systems. We therefore reserve the right to alter specifications and products without prior notice.

This instruction manual is important, please read it before installing the unit

May we take this opportunity to thank you in purchasing the HAWK HA-MC01 motorcycle alarm. HAWK HA-MC01 has been developed to provide your motorcycle with the ultimate in security and convenience. The system design has been focused on a compact, easy and safe to install unit with new features nearly unmatched in the industry.

HAWK HA-MC01 System consists of the following main components:

- Two Military grade encrypted Remote Transmitters
- Installed Waterproof HA-MC01 control unit
- Movement Detection built into control unit
- Installed in-line Fuses for patent pending Anti-temper Device
- Installed Ultra bright LED alarm indicator
- 125db unique six tone siren
- Warning Label

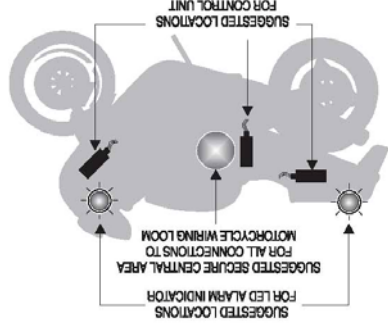
How to Install Your HAWK compact Motorcycle Alarm System

PLANNING THE INSTALLATION

<ul style="list-style-type: none"> • The Control Unit • Two Remote Transmitters • Installation Instruction • User Guide • Siren • Wiring Loom • Warranty Information 	<p style="text-align: center;">The Box Contains</p> <p style="text-align: center;">Tools Required:</p> <ul style="list-style-type: none"> • Pliers/Cable Cutters • Motorcycle wiring diagram • Drill (9.5mm & 8mm bits) • Soldering Equipment • Self Adhesive Heat sink Tubing • Good quality insulating tape • Masking Tape • Multimeter • General Workshop Tools
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LOCATION OF MAIN SYSTEM COMPONENTS

Before commencing with the installation, plan where to secure the main components. See the location diagram for suggested locations for the main components of the system.



CONTROL UNIT

The control Unit should be located in a protected environment with good access to the motorcycle wiring loom. Avoid extremes of heat i.e. exhaust engine and direct exposure of the elements, and make sure that the unit does not interfere with normal operation of the motor cycle. The control wiring must point down to avoid any water ingress.

LED ALARM INDICATOR

The desired location of the LED Alarm Indicator should be mounted in a prominent position; suggested locations are the instrument cluster or a rear body panel with good viewing access.

NORMAL OPERATION

- Set up Alarm
- Disarm alarm
- Remote startup
- Mute alarm

ARMING THE ALARM SYSTEM

NORMAL ARMING MODE

To arm the alarm system, turn the ignition switch OFF, press the button, indicators will flash once with single audible bleep LED starts to flash. The alarm system will enter into the arming status after 5 seconds. If motorcycle is slightly moved, the alarm will chirp & flash lights 5 times, if it's moved hard then full reaction will occur and sound for 30 seconds. Engine will be completely immobilised and can not be driven away.

AUTOMATIC ARMING

In any case, the alarm system will arm itself automatically 30 seconds after the ignition has been switched OFF.

DISARMING THE ALARM SYSTEM

To disarm the alarm system, press the button, until indicators flash twice with two audible beeps.

SILENT ARMING/DISARMING


Press the button, the lights will flash once and the system will be armed. If the motion detection sensor is triggered in silent arming mode for first time, indicator lights flashes slowly. System will revert to normal arming mode automatically, when shaken again. To disarm in silent arming mode press the button. Press the button to quit silent arming and back to normal arming mode.

ENERGY SAVING SECURITY MODE:

Turn the ignition switch OFF, Press and hold the button button simultaneously; indicators will flash once with single audible bleep, indicators will flash once again. System will enter automatically Energy saving mode after 3 seconds. In the Energy Saving Security mode, if the engine switch on, warning alarm will continuously sound for 30 seconds and the engine will be immobilised. The indicator lights will not flash for energy saving.

ALARM REACTION

Once triggered, the alarm will sound and the indicators will flash for 30 seconds before switching off automatically.



To switch off alarm, press the  button on the transmitter.

EMERGENCY KEY RESET:


If the remote control is lost the owner can disarm the alarm with the key. Please refer to steps below:

1. Keep the ignition switch off position for 1 second.
2. Turn the ignition switch ON/OFF 5 times and it will disable alarm immediately. Make sure that each ON/OFF sequence is completed in 1 second otherwise the system will ignore it.


BIKE FINDER/PANIC

Press  button and  button simultaneously with the alarm armed in normal mode and the indicator lights will flash 8 times and siren will chirp 8 times. If alarm armed in silent mode only the indicator lights will flash 8 times.

REMOTE START

Press the  button twice within two seconds and hold, engine will start automatically, and used for non-key driving and warm-up. Repeat the above operation if the engine does not function due to cold weather or due to slow rotation of engine.

NOTE: when using the remote start up, the switch key of the motorcycle cannot be pressed at the same time, otherwise the fuse will blow.

How to turn off the remote start function: press the  button once then engine will stop.

ANTI HOTWIRE

When system in armed mode if system detects the ignition is forcibly switched on (hotwired) siren will activate and indicator lights will remain solid, the engine is automatically immobilised and motorcycle cannot be started up.

INSTALLATION OF MAIN SYSTEM COMPONENTS

Great care has been taken in the design and manufacture of HAWK products, Correct installation and good working practices will enhance the operation of the alarm system and give long term benefit to the user.

1. position and attach the Control unit
2. position and attach the LED Alarm indicator

ALARM WIRING

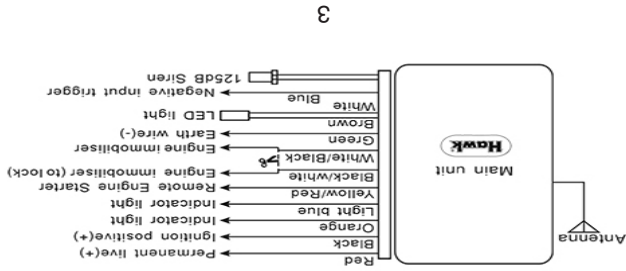
Plan where to make the connections to the motorcycle wiring loom. The alarm loom should run alongside the original motorcycle loom taking full advantage of the motorcycle wiring loom integrity. Normally all connections can be made to a central area on the motorcycle loom, such as under the petrol tank.
NOTE: Soldered joints are recommended for all wiring connections.

ALARM WIRING INSTALLATION

IMPORTANT
Make sure that you have planned the wiring connections before adapting / cutting the alarm loom or the motorcycle loom.

1. Connect RED wire to constant power input (+) 12v supply from the battery,
2. Connect BLACK wire to any wire in the ignition system which becomes live when the ignition is switched ON, and remains live when the starter is pressed e.g. power feed from ignition switch to fuse box.
3. Connect ORANGE wire to left indicator positive (+) lead output. **Take care not to use the motorcycle indicator negative (-) wire.**
4. Connect LIGHT BLUE wire to right indicator positive (+) output. **Take care not to use the motorcycle indicator negative (-) wire.**
5. Connect YELLOW/RED wire to the remote starter (+) lead output.
6. **Engine immobilisation**- there are 2 cables 1) BLACK/WHITE wire 2) WHITE/BLACK wire. Recommended circuits are the fuel pump or fuel pump relay. If in doubt which circuit to immobilise, consider any circuit that the motorcycle manufacturer uses to switch off the engine, such as kill switch, fall down sensor, side stand switch etc. (The CPU on Italian motorcycles or the Hall Effect ignition on Harley Davidsons is not recommended.)
7. Connect GREEN earth wire to the motorcycle frame or the battery negative terminal.
8. Connect small 2 pin connector to LED
9. Blue wire for optional negative input sensor e.g. tilt or microwave sensor
10. Connect large 2 pin connector to Siren

Wiring Diagram



ANTI HIJACK

Press the button for 2 seconds when ignition is on engine will immobilise immediately, siren will sound continuously and indicator lights will flash continuously. Press the button to de-activate anti hijack mode.

FOUR -SELECTION SENSITIVITY SET:

When alarm disarmed Press the button and the button at the same time, the siren will chirp three times and indicator lights flash three times. System is set for sensitivity adjustment mode.
Press the button sensitivity increase and press the button sensitivity decrease. Level of sensitivity indicated by number of siren chirps, there are 4 levels of sensitivity. To exit from sensitivity adjustment mode press the button.

STATUS MEMORY:

When the motorcycle is set into arming normal or silent mode, press the button, if the siren gives one extra chirp then motorcycle was tampered.

MEMEORY FUNCTION

The alarm will memorise the condition before the power is cut off.

LEARNING TRANSMITTER CODES:

This alarm system can support up to 4 remote controls. The included transmitter is pre programmed into the systems memory at the factory. Follow the below steps to add or delete a new transmitter.

1. In disarming mode, ACC OFF position. Turn the ACC ON/OFF 8 times and lastly turn it ON, the car enters into code learning mode.
2. Press and hold a button on the first remote for 1 second, parking light flash once, siren chirp once. The first remote is learned.
3. Press and hold a button on the second remote for 1 second, parking light flash twice, siren chirp twice, indicating the second remote learned.
4. Follow the above procedures, the times the parking light flash or the siren chirps indicate the sequence of the remote learned.
5. Altogether 4 remotes can be learned. If the 5th remote learned, it will automatically replace the first one.

TROUBLESHOOTING

Can not disarm or arm the alarm system

- Check the alarm fuse. Check you are within range of the motorcycle (10m max). Check the ignition switch is in the OFF position. Check the integrity of the transmitter battery.

Starter motor fails to function

- Check the motorcycle battery in good condition. Ensure that engine 'Run/Stop switch is in the 'run' position, side stand is up and motorcycle is not in gear.

TRANSMITTER BATTERY REPLACEMENT

To clean the battery contacts, or to replace the battery, open the casing using the two screws.

Make sure that the replacement battery is of the correct type and located in the correct position with the polarity maintained. This transmitter uses 1 x 27a alkaline battery.

GENERAL CARE AND MAINTENANCE

TRANSMITTER

The transmitter contains delicate electronic circuits and must be protected from impact and water damage. Change the battery every year.

CONTROL UNIT

The control unit also contains delicate electronic circuits and must never be pressure washed or steam cleaned.

MOTORCYCLE BATTERY

The Alarm System consumes >3mA when the motorcycle is being protected. If the motorcycle is parked or stored for a long period, or has a small or old battery, the motorcycle battery can eventually discharge.

GENERAL SECURITY

The HAWK HA-MC01 alarm/immobiliser system will provide an effective deterrent against theft. It will not in itself guarantee that your motorcycle is not stolen or damaged. We strongly advise that your alarm is used in conjunction with basic anti-theft precautions.

WARRANTY TERMS AND CONDITIONS

Please keep your purchase invoice carefully. This will help us to handle any warranty enquiries quickly. The warranty does not affect your statutory rights. The warranty period is 12 months from date of purchase, only applies to UK registered motorcycles and is only applicable to the original purchase/owner. If within the warranty period the system proves to be defective by reason of faulty design, workmanship or materials. We undertake subject to the following conditions to have the defective system repaired or at our discretion, replaced.

- The system must have been in accordance with the installation and operating instructions.
- Any attempt by an unauthorised individual to repair or modify the system will render the warranty null and void.
- No liability will be accepted for any costs incurred where no fault is found; the fault lies with the motorcycle or the fuses to the system or motorcycle transmitters have been lost, damaged or have discharged batteries. Assistance has been provided other than through the HAWK dealer network, without prior approval from HAWK, any defect or failure has been caused by outside force to or misuse of the system.