

**STEELMATE**  
*Automotive*

## **2-WAY** *Motorcycle Alarm System*



*Think safety think Steelmate*



**STEELMATE CO., LTD.**

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Manual

## Contents

### User's Manual

<b>Important notice</b> .....	1
<b>Key features</b> .....	1
<b>Technical parameter</b> .....	2
<b>Brief look at each device</b> .....	2
<b>Transmitter charging</b> .....	2
<b>Low battery warning</b> .....	2
<b>Functions</b> .....	3
1. Arming .....	3
2. Mute arming .....	3
3. Shock impact alarm .....	3
4. Emergency alarm .....	3
5. Disarming and rearming .....	3
6. Locating .....	3
7. Anti-hijack .....	3
8. Not-armed warning .....	3
9. Remote stop engine .....	3
10. Remote engine start (986 series only) ---	3
11. Keyless driving (986 series only) .....	3
12. LED indicator .....	4
13. Special music reminding .....	4
14. Time setting .....	4
15. Antenna range indication .....	4
16. Sensitivity adjustment by transmitter ----	4
17. Backup battery (optional) .....	4
18. Monitoring the battery status of the motorcycle	4

### Installation Manual

<b>Installation guide</b> .....	6
<b>ECU installation</b> .....	8
<b>LED light installation</b> .....	8
<b>Siren installation</b> .....	8
<b>Warranty terms</b> .....	9
<b>Warranty card</b> .....	9

## Motorcycle Alarm System User's Manual

## Important notice

- Please install the system by an authorized engineer.
- Keep the product and the transmitters from water.
- It is highly recommended you read this manual carefully before the installation and operation of this unit.
- When the transmitter operating distance is shorter or its indicator light turns dark, please replace the battery with a new one or charge the transmitter ASAP.

## Key features

- 2-way LCD transmitter
- Motorcycle battery status indication on LCD transmitter
- Low power consumption (<3.5mA)
- Shock sensor sensitivity adjustable via transmitter
- Water resistant ECU
- Out of operating range warning
- Small siren & ECU for easy installation
- Backup battery (optional)

## Technical parameter

### ECU

- Operation voltage: 12V±3V
- Static current: <3.5mA
- Operation frequency: 433.92MHz

### Siren



- Siren SPL: 108~125dB

### Transmitter



- Operation voltage: 3.2~4.2V (Rechargeable)  
1.1~1.5V (AAA battery)

## Brief look at each device

### Arm

Press  button once to arm the system.  
Press  button twice to enter mute arming mode.

### Disarm

Press  button to disarm the system.  
Press and hold  button to turn on/off transmitter.  
(Rechargeable transmitters)


### Start

Press  button twice to start the engine.

### Mute

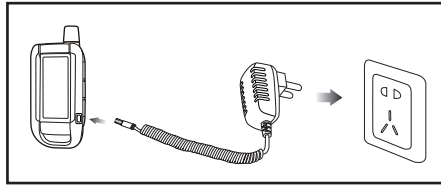
Press  button to arm in mute arming mode.

### Panic

Press  button once to locate the motorcycle.  
※ Some buttons are only for some transmitters

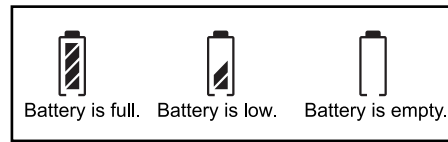
## Transmitter charging

- Connect the charger's plug to transmitter's charging socket, and then insert the charger into 100~240V power supplier, the transmitter's battery can be charged discontinuously
- When transmitter is full charged, the battery indicator will be full.



## Low battery warning


- When a transmitter's battery is low, the transmitter will send out warning sound after the button is pressed, the battery indicator will show the battery status.
- When the battery indicator is empty, the transmitter needs to be charged or changed immediately.





The transmitting range will be affected when the battery is low.

## Functions



### 1. Arming



When ignition is turned off, press  button to arm the system.

### 2. Mute arming


Press  button twice (or  button once) to enter mute arming mode.

### 3. Shock impact alarm


In arming mode, the first shock impact will trigger the system warning, the siren will chirp with turn signals flashing 3 times, and the engine will be immobilized. The 2-way transmitter will beep 5 times with vibration, the  icon and  icon will be flashing with backlight.


If the second shock impact triggered in 15 seconds, the siren will chirp 15 seconds with turn signals flashing and the engine will be immobilized. The 2-way transmitter will beep and vibrate, the  icon and  icon will be flashing with backlight.  
※ In mute arming mode, the siren will not chirp.

### 4. Emergency alarm






In arming mode, if the key is turned to ACC ON position, the siren will chirp sharply, the turn signals will flash and the engine will be immobilized. Press  button to stop alarming.

### 5. Disarming and rearming




In arming mode, press  button to disarm the system. If the motorcycle is not touched or the engine is not started in 30 seconds, the system will automatically return to the former arming mode.

Press  button twice, the turn signals will flash twice and the system will be disarmed completely.

### 6. Locating

Press  button once or press and hold /// buttons to locate motorcycle, the siren will chirp for 10 seconds with turn signals flashing.


### 7. Anti-hijack

Ignition on, press and hold  or  button, the siren will chirp sharply with the turn signals flashing. The engine will be immobilized after 10 seconds. Press  button to stop this function.


### 8. Not-armed warning

When the ignition off and the system is not armed within 10 seconds, the siren will chirp 3 times with turn signals flashing to remind to arm the system.


### 9. Remote stop engine

During driving or starting engine, press  button once to stop the engine.

### 10. Remote engine start (986 series only)

Press  button twice continuously, the engine will be started and run for 8 minutes, then engine will be shut down and the system will return to the previous status. During the 8 minutes, if you insert the key and turn to ACC ON, the engine will keep running.

### 11. Keyless driving (986 series only)

If the engine is started, press  button again in 8 minutes, the siren will beep once to confirm that the motorcycle can be driven with keyless.

When the engine is running, press ⏻ button once, the engine will be stopped.

#### **12. LED indicator**

In arming mode, the LED indicator will flash once every two seconds. When shock sensor is triggered, the LED indicator will flash continuously.

#### **13. Special music reminding**

Press any button on the transmitter, if it sends out special music, the transmitter is communicating with ECU, please operate it later.

#### **14. Time setting**

Press ⏻ + ⏻ button together for 2 seconds, the transmitter beeps once, the figure will flash, then press ⏻ button to choose hour or minute setting, and set the time by ⏻ button

Parameter setting:

①Time: setting hour, minute (time in 24 hour notation)

②Exit: Press ⏻ + ⏻ button together to save the setting and exit the setting mode, the transmitter beeps once.

#### **15. Antenna range indication**

Antenna range shows by bar on the LCD screen, the more the bar, the stronger the signal. When the transmitter can not receive the signal from the system, the signal bar will disappear.

#### **16. Sensitivity adjustment by transmitter**

In disarming mode, press and hold ⏻ + ⏻ buttons or ⏻ button to enter the shock sensor sensitivity setting function. Press ⏻ button or ⏻ button to change the 1~8 sensitivity levels (level 8 is the highest sensitivity level and level 1 is the lowest sensitivity level).

When selecting sensitivity levels, the siren beeps once with turn signals flashing once to indicate the sensitivity is at level "1", the LCD transmitter will monitor "1", the siren beeps twice with turn signals flashing twice to indicate the sensitivity is at level 2, the LCD transmitter will monitor "2", and so on. Once the suitable sensitivity is set, press ⏻ button to confirm and exit the setting mode. (If there is no adjustment within 15 seconds after the system enters the sensitivity setting mode, the system will automatically exit setting & revert to its former sensitivity status. Factory default: level 5).

#### **17. Backup battery (optional)**

A backup battery provides power to the system when the primary source of power is unavailable.

#### **18. Monitoring the battery status of the motorcycle**

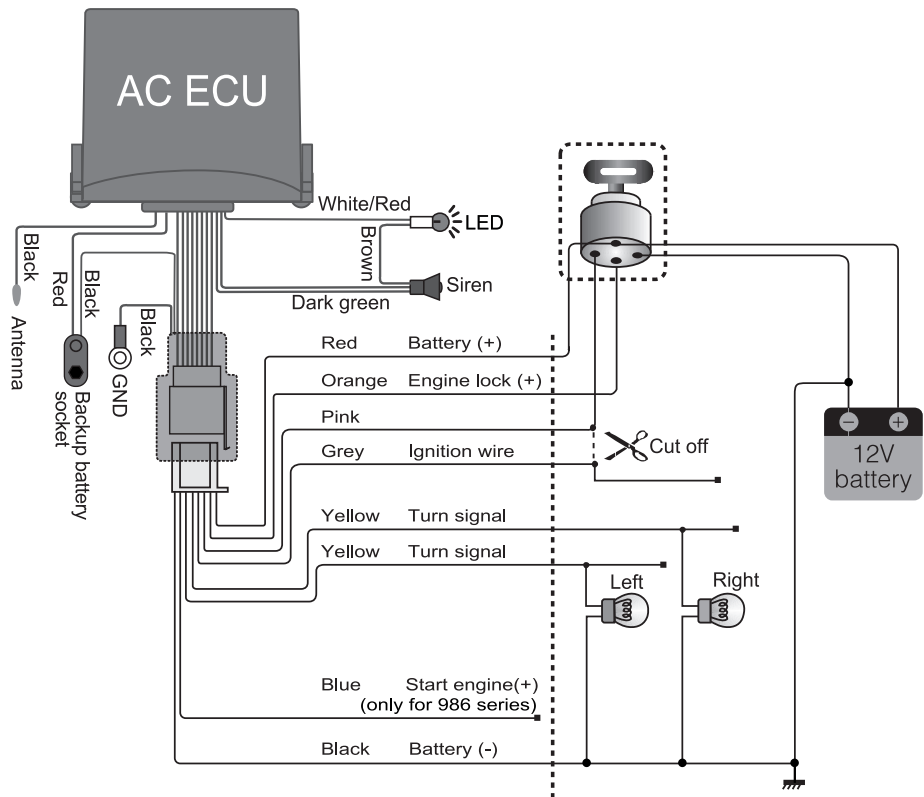
Every time when press armed button on the LCD transmitter, the battery voltage of the motorcycle will be shown on the transmitter with V icon flashing. You can know the motorcycle's battery status at any time.

Motorcycle Alarm  
System

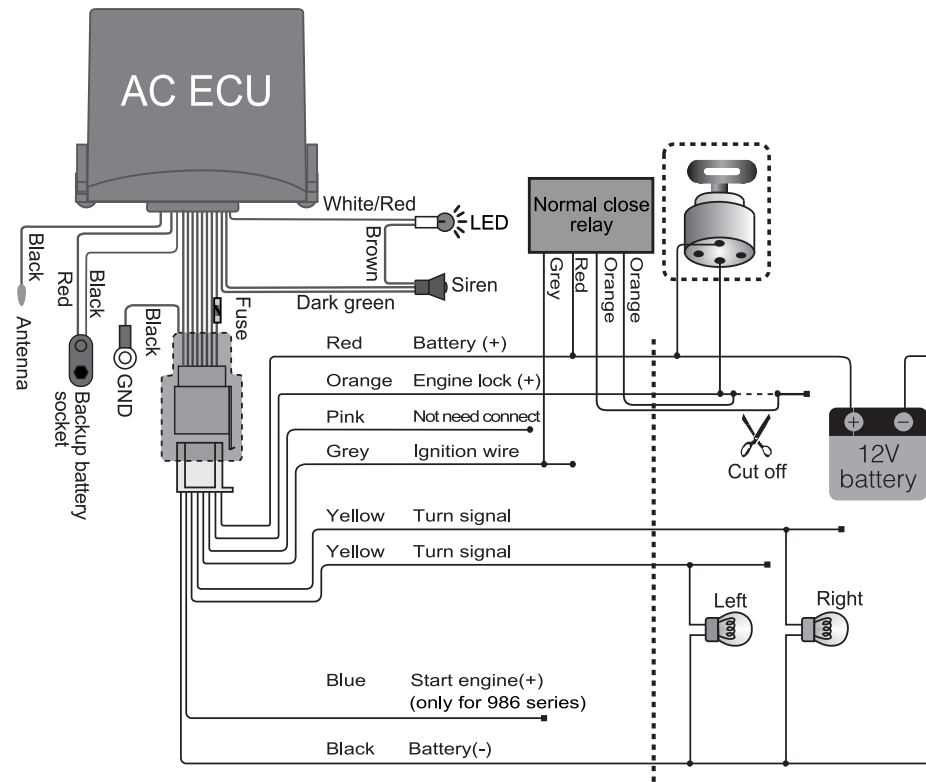
Installation Manual

# Installation guide

## AC ignition installation diagram



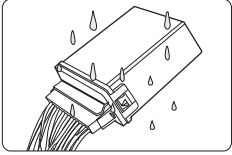
## DC ignition installation diagram



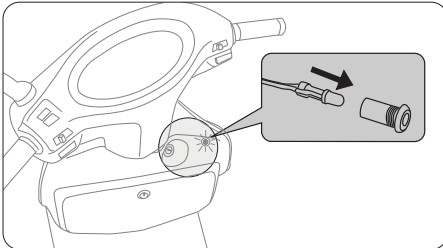
※ Relay is optional only for install in DC ignition motorcycle.

## ECU installation

Please mount the ECU downside as shown in the figure.



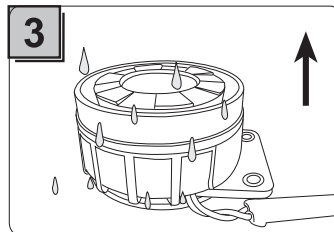
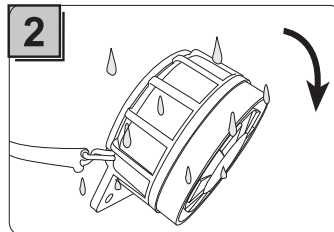
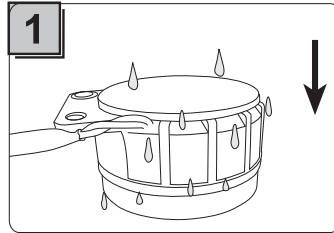
## LED light installation



1. Drill a hole ( $\varnothing 8$ ) around the lock where it can be seen clearly.
2. Insert the outer bushing to the hole.
3. Insert the inner bushing with LED to the outer bushing and tighten them up.
4. Connect the LED plug to the main unit of the alarm system.

## Siren installation

Please mount the siren downwards as shown in the figures 1 or 2 below:



## Warranty terms

I. The unit is warranted for a limited period of time from the date of purchase. In the unlikely event of a defect arising in this product when used in accordance with the manufacturer's instructions, the parts would be repaired or replaced free of charge.

- It is required to show warranty card when making any warranty claims.
- The model and serial number on the unit must be the same as the information on the warranty card.

II. This warranty is non-transferable and is automatically void if:

- The original purchaser has not completed the warranty card.
- The unit's serial number is defaced, missing or altered.
- The unit has been modified or used in a manner contrary to its intended purpose.
- The unit has been damaged by accident, unreasonable use, neglect, improper installation or service.

III. The warranty does not cover damage to the unit caused by installation or removal of the unit.

## Warranty card

### Dear user:

Thank you for choosing this product.  
Please fill the form below and retain it.

### User's information:

User:

Tel:

Vehicle license No.:

Product model No.:

Serial No.:

Date of installation:

Name of the retailer

Signed by distributor