

**TWO-WAY LCD
MOTORCYCLE ALARM SYSTEM
OPERATION & INSTALLATION INSTRUCTIONS**

Special Request: This system is designed to be installed in motorcycle with 12V battery and electronic start.

TECHNICAL SPECIFICATION

1. Main Control Module

Working Voltage: 9V-18V DC

Stand by Current Consumption: ≤ 4 mA

Alarm Current Consumption: ≤ 250 mA

Frequency Range: $433.92\text{MHz} \pm 75\text{KHz}$

Working Mode: ASK

TX Range: $\geq 350\text{m}$ (in open area)

2. Two-Way LCD Remote Control

Working Voltage: 1.5V DC




Frequency Range: $433.92\text{MHz} \pm 75\text{KHz}$

Working Mode: ASK

TX Range: $\geq 300\text{m}$ (in open area)


REMOTE CONTROL KEY FUNCTIONS

1.  Button: Arming with Sound and Light, Motorcycle Locating with Sound and Light, Anti-hijacking, Sensitivity Adjustment, Stop Alarm


2.  Button: Disarm
3.  Button: Silent Arming, Silent Locating, Remote Start, Stop Alarm
4.  Button: LCD Illumination, Remote Control Vibrate Mode On/Off

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
1. Arming with Sound and Light

While the alarm is disarmed, press button  once on the remote control, the siren will chirp once, the direction lights will flash once, the remote control will beep once, and the system will arm 2 seconds later. The LCD Icons will display as picture (1).


2. Silent Arming

While the alarm is disarmed, press button  once on the remote control, the direction lights will flash once, the remote control will beep once, and the system will enter silent armed mode 2 seconds later. The LCD Icons will display as picture (2).



3. Motorcycle Locating with Sound and Light

While the alarm is armed with sound and light, press button  once on the remote control, the siren will chirp 3 times, the direction lights will flash 3 times and the remote control will beep 3 times for locating the motorcycle.

4. Motorcycle Locating with Light

While the alarm is in silent armed mode, press button  once on the remote control, the direction lights will flash 3 times and the remote control will beep 3 times for locating the motorcycle.


5. Stop Alarm

When the siren is sounding after the system is triggered, pressing button  or  on the remote



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control will stop the trigger and return the unit to the armed state 2 seconds later.



6. Disarming

Press button  once while the alarm is armed, the direction lights will flash twice, the siren will chirp twice (the siren will not chirp while the system is in silent armed mode), the remote control will beep twice and the system will disarm. The LCD Icons will display as picture (3).

7. Anti-hijacking

When a driver is hijacked during driving, he or she may press and hold button  for 3 seconds within the transmission range of the remote control, the direction lights will flash once and the remote control will beep 3 times. After 10 seconds, the siren will sound, the direction lights will flash rapidly, the engine will stop and be immobilized and the remote control will beep continuously. To exit anti-hijack mode only by pressing button .

8. Remote Engine Start

While the alarm is armed or disarmed, press and hold button , the system will enter engine start mode 3 seconds later, the remote control will beep 3 times. After the engine is started successfully, the remote control will beep 3 times again. The LCD Icons will display as picture (4). If your motorcycle does not start on the first crank it will automatically attempt to start up to 2 more times. If the 3 cranks all failed to start it indicates the battery level of the motorcycle is low and you should recharge or replace your battery. Once the motorcycle is started, it will run for 8 minutes then shut down and return the system to the armed state. While the motorcycle is running during remote start operation, you may press button  once to stop the engine, the siren will chirp twice and the remote control will chirp twice to confirm.

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


Special Remarks: When you operate the remote start function, please do not let the rear wheel of the motorcycle touch the floor to avoid an accident.

9. Sensitivity Adjustment

There are 4 grades of sensitivity of the shock sensor trigger. The higher grade of the sensitivity the more sensitive of the sensor trigger. The sensitivity grades will display as picture (5) on the LCD Screen.

The first grade indicates the sensor trigger is turned off, i.e., the sensor trigger function is disabled.

Please follow the following steps to set the sensitivity grade.

While the alarm is in silent armed mode, press and hold button  for 3 seconds, the direction lights will flash and the remote control will beep, the flashing and beeping times will be equal to the grade of the sensitivity. Every time when you press and hold button  for 3 seconds, the sensitivity grade will be changed once. After you get an ideal sensitivity grade, press button  once to lock the sensitivity grade. The factory default setting is grade 3.

10. Shock Sensing


If the alarm is triggered by shock sensing, the siren will chirp 5 times (the siren will not chirp while in silent armed mode), the direction lights will flash 5 times and the remote control will beep for 15 seconds. If the alarm is triggered again by shock sensing within 15 seconds, the siren will sound for 15 seconds (the siren will not sound while in silent armed mode), the direction lights will flash for 15 seconds and the remote control will beep for 15 seconds. The LCD Icons will display as picture (6).

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
11. Ignition Trigger

When the ignition key is turned ON while the alarm is in any armed mode, the siren will sound and the direction lights will flash continuously. If the ignition key is not removed within 15 seconds then the alarm cycle will repeat. The LCD Icons will display as picture (7).

12. Trigger Memory

If the alarm is triggered while it is armed, the siren will chirp and the direction lights will flash 4 times when pressing button  to disarm the alarm.

13. Auto Rearming

Press button  to disarm the alarm while armed, if you do not turn the ignition key to ON position within 60 seconds then the system will rearm automatically.

14. Auto Arming (Selectable)

If the user does not arm the alarm with remote control 60 seconds after the ignition is turned off, the system will arm automatically and enter the silent armed mode.

15. Power Interrupted Memory

When either or both constant [+] power and/or [-] ground is disconnected and then later reconnected the system shall always power back up in the exact same mode it was in before the power was disconnected.

16. Programmable Features

To Enter Programming Mode

While the alarm is disarmed, turn the ignition key to ON & OFF 3 times then stay OFF, then press the Override Switch 5 times within 10 seconds, the siren will chirp once and the system will enter

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the programming mode. If you want to exit the programming mode, turn the ignition key to ON & OFF once or wait for 10 seconds, the siren will chirp 3 times and the system will exit the programming mode.

a) **The Programming of the Pressing Times of the Override Switch When Performing Emergency Override**

While the alarm is armed, if the remote control is lost or it does not work, you may disarm the system by pressing the Override Switch. The times of pressing the Override Switch can be set by the user from 3 to 31 times. The process is as following:



While the system is in programming mode, press and hold button \square for 3 seconds, the siren will chirp twice and the system is ready for programming the pressing times of the Override Switch. Press the Override Switch, each time when pressing the Switch, the siren will chirp once. The user may set the pressing times by himself or herself, for example 8 times, then he or she should press the Switch 8 times. 10 seconds after this programming the siren will chirp 4 times to confirm. The factory default setting is 5 times. It is recommended to set the pressing times again to ensure the security of your vehicle.

b) **Remote Control Programming**

For security of your motorcycle please erase the codes of the lost Remote Control from memory then learn all the Remote Controls again and this will prevent the illegal user who obtained the lost Remote Control from using it to operate the alarm system. The process is as following:

While the system is in programming mode, press the Override Switch 5 times, the siren will chirp once, indicating the codes of the remote controls memorized have been erased. Within 5 seconds

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
after deleting the codes, press button  on the remote control to be learnt, the siren will chirp once to indicate successful learning of the no. 1 remote control. Then press button  on the no. 2 remote control to be learnt, the siren will chirp once to indicate successful learning. Follow the above operation to learn all the remote controls. 10 seconds after completion of the learning, the siren will chirp 3 times and the system will exit the programming mode. Or after completion of the learning turn the ignition key ON then OFF the system will also exit the programming mode. The system is designed to memorize codes of 2 two-way LCD Remote Controls and 4 one-way Remote Controls.

Note: Please be noted that there should not be strong radio frequency around during the learning process or the learning will be affected or fail.

c) Auto Arming ON/OFF Selection

While the system is in programming mode, press and hold the Override Switch for 5 seconds. If the siren chirps once and the direction lights flash once, this indicates auto arming is ON. If the siren chirps twice and the direction lights flash twice, this indicates auto arming is OFF. The factory default setting is auto arming OFF.

17. Emergency Override

While the alarm is armed, turn the ignition key to ON & OFF 3 times then stay OFF, the siren will sound, then press the Override Switch for the preset times (for example 8 times), the system will disarm 5 seconds later and the motorcycle can now be started. If the user does not turn on the ignition then after 60 seconds the system will enter silent armed state. After emergency override, the user can arm the system by pressing button  or .

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Special Remarks: The Override Switch should be installed in a hidden location where it is convenient to operate.

18. ☼ **Button Functions**



a) **LCD Illumination**

If you want to know the status of your motorcycle at night, you may press and release button ☼ on the remote control, the LCD will illuminate for 3 seconds.

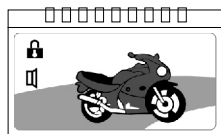
b) **Remote Control Vibrate Mode On/Off**

While the alarm is armed, press and hold button ☼ for 3 seconds. The remote control will beep once for vibration mode ON, twice for OFF. The factory default setting is vibration mode ON. Programming vibration mode ON will decrease the life expectancy of the battery.

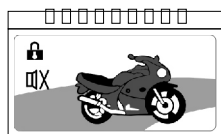
19. **Remote Control Battery**

The Remote Control is powered by a 1.5V type alkaline battery. When the battery is new, the icon  will display on the LCD screen. When the power of the battery is exhausted, the icon  on the LCD will flash and a new battery should be replaced. The LCD Icons will display as picture (8).

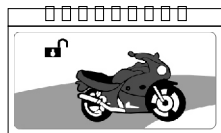
LCD Icon Display



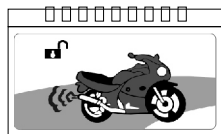
Picture(1):Arming w/ Sound & Light



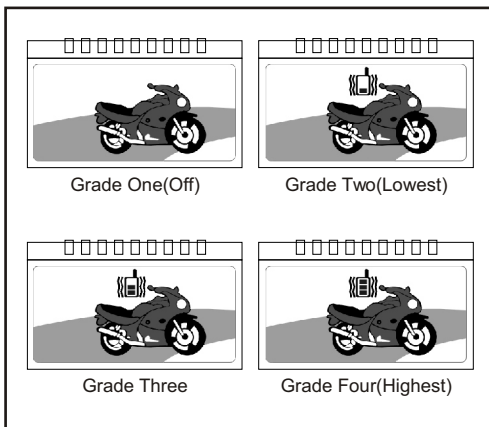
Picture(2):Silent Arming



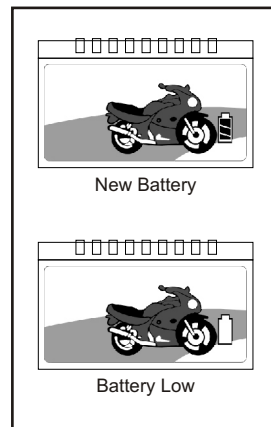
Picture(3):Disarming



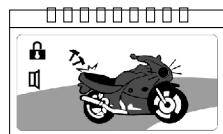
Picture(4):Remote Start



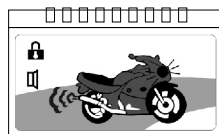
Picture(5):Sensitivity Grade



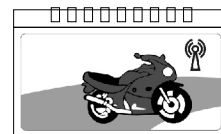
Picture(8):Battery Level



Picture(6):Shock Sensing

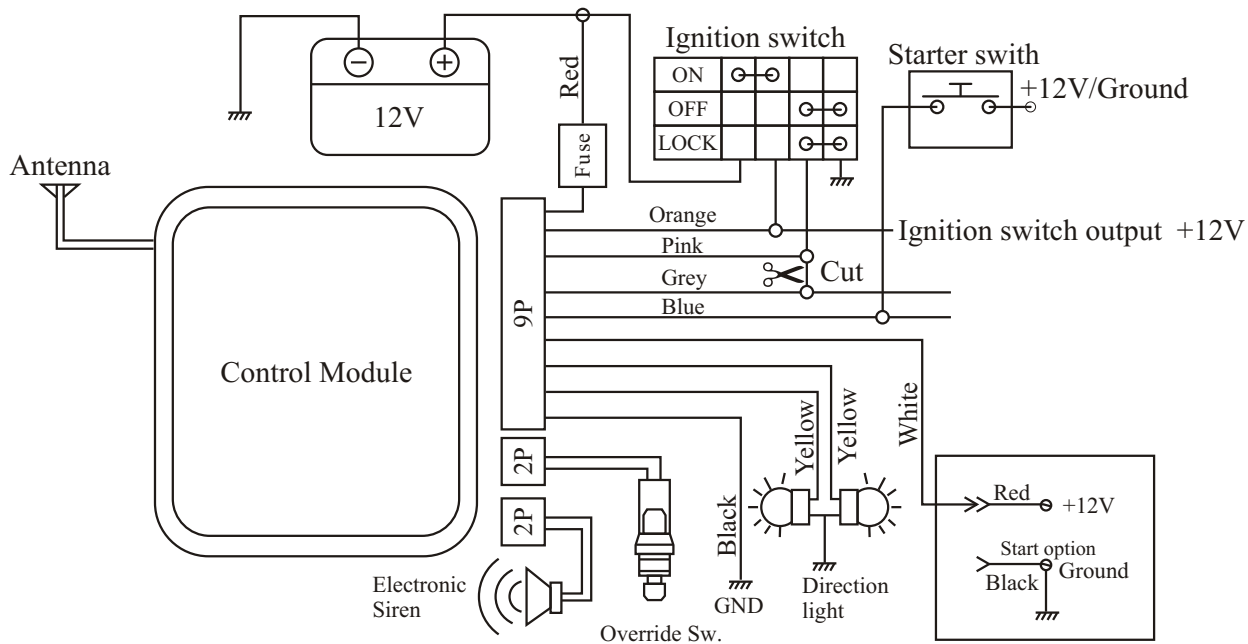


Picture(7):Ignition Trigger



Picture(9):Transmit Indicator

Wiring Diagram 1



Wiring Diagram 2

