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# Keyless Entry Instruction

## User' Guide



## LF-020MS Operations & Functions Instruction

### Transmitter button functions:

| | | | |
|---|---|---|---|
| Arm | Disarm | Trunk release | Locating &Help |

A.Unlock
Press the button on the transmitter once, the parking lights will gleam twice, the central door lock system unlock automatically, and LED light turn off.

B.Lock
Press the button on the transmitter once, the parking lights will gleam once, the central door lock system lock automatically, and LED light turn on.

C.Locating
1) when locked, press the button on the transmitter once again, the parking lights will gleam 10 times to locate the car easier.
2) In any mode, press the button once, the parking lights will gleam 10 times to locate the car easier.

D. Trunk Releasing
1) press the button on the transmitter for 2 seconds to release the trunk (0.8 second). The trunk will keep output until releasing the button .
2) Press the button .

On the transmitter for 2 seconds to release the trunk while the head lights gleam 3 times, then the trunk releases (0.8 second). The trunk will keep output until releasing the button .

E. Negative/ Positive Output Option for Trunk Release (as shown on the diagram)
The default setting is "+".
Plug in "+" for +12V output
Plug in "-" for negative output( to GND)

F. Electrical / pneumatic central lock(as shown on the diagram)
The default setting is electrical lock for 0.5S.
Plug in "0.5S" for electrical lock 0.5S.
Plug in "3.5S" for pneumatic lock 3.5S.

G. Learning Code
Press the learning switch on the brain unit for more than 1 second, the head lights gleam to enter the learning mode. Press any button on the transmitter, the head lights turn off to indicate the transmitter finishes code learning. Repeat again to learn 4 transmitters at most. If learning more than 4 transmitters, the system will delete the code in the former transmitters.

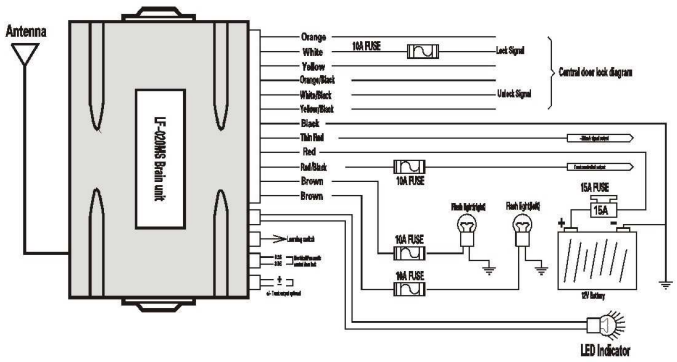
H. -250mA Signal Output
1) The signal is optional as power window controlled output or engine cutting off controlled output, due to customer's demand.
2) Optional
Press the button and at the same time for 5 seconds, the head lights gleam 3 times quickly, the signal is power window controlled output. Press the button and at the same time for 5 seconds, the head lights gleam 5 times, the signal is engine cutting off controlled output.
3) When the -250 mA signal output is power window controlled
In unlocked mode, press the button on the transmitter once, the parking lights gleam once, the central door lock system locks automatically, the power window rolls up automatically for 30 seconds, LED light turns on.
4) When the -250 mA signal output is engine cutting off controlled
In unlocked mode, press the button on the transmitter once, the parking lights gleam once, the central door lock system locks automatically, the engine cuts off, and LED light turns on.

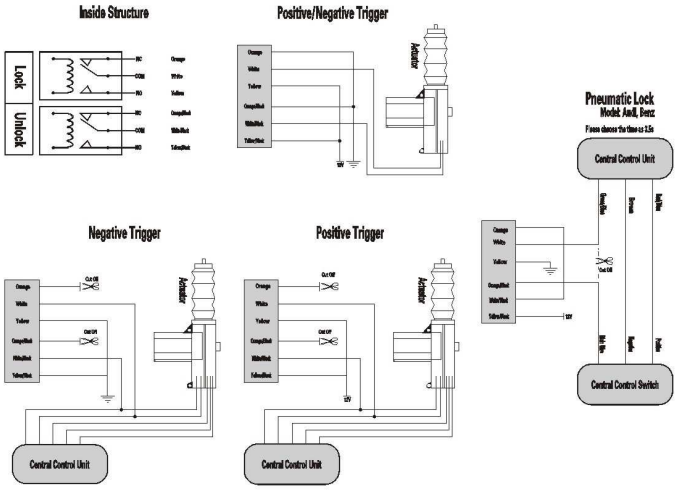
## LF-020MS Trouble Shootings

**I. After fixed in the car, the siren could not operated by the transmitter.**
**1. Check the socket connections correct or not.**
**2. Check the wire connections correct or not.**
**3. Check the fuses broken or not.**
**4. Check the code between the transmitter and the brain matched each other or not.**
**5. Check the ground lead loose or not.**
**II. can't remote control by transmitter but LED on**
**1. Check the battery and the voltage measured by voltmeter min.1.5V.**
**2. Check the transmitter frequency correct or not.**
**Note: you can use an OK transmitter instead of the doubted problem one to test and find the problem. If both can not remote control, please check the brain, wire connection and power. It is not necessary to open the case.**
**III. The central lock system can't act normally even no action.**
**1. Check the wire connection. If the fuse broken, there must be installation problem. Thus please check the wire connection again. If you don't know how to deal, please contact your distributor.**
**2. Check the actuators and change if broken.**
**3. Check the wire connection again.**
**IV. Can't remote control by transmitter and LED not light.**
**1. Check the Lock button on the transmitter pressed or not. If the car doors fail to be open manually, it indicates the central door lock system is already locked.**
**2. Check the socket connections correct or not.**
**3. Check the LED light broken or not. Change the broken one.**

## Technical Specification

1. Model: LF-020MS
2. Type: car keyless entry system
3. Working Frequency: 433.92MHZ
4. Working Voltage: 9-15V
5. Working Current: Central door lock system: 10A
   Headlights: 10A*2
   Trunk Release: 10A
   Power Window/ Engine Cut OFF: -250mA
6. Static Current: Unlocked: <=7mA
   Locked with LED OFF: <=8mA
   Locked with LED ON: <=10Ma
7. Remote Control Distance: transmitter normal distance
   Working Temperature: -40℃æ℃




## Warrantee Card

**The Warrantee is on our company free of charge within one year from the date when you buy this product, which is excluding any damage happened. Please fill out the form below in which especially please express clearly the damage cause, which should be mailed back to us with the brain unit, transmitters and siren together.**

**Transmitter No.:** _____
**Company Name:** _____
**Postal Address:** _____
_____
**Purchased Date:** _____

**The warrantee doesn't cover the following:**
**1. The brain unit or transmitter is watered;**
**2. Battery;**
**3. PCB is taken apart by yourself.**