

Installation Tips & Recommendations

1-1. Please be careful not to lock yourself out.

Please lower the glass windows before you start the installation in case the door locks with the key inside. Also, learn the remote to the brain module after the installation has been completed.

1-2. Use Digital Multimeter for testing

Use a Digital Multimeter for all testing of wires in the vehicle. This should be done on all wires even if you feel that you know exactly what they are and how they should test. Use of lamp tester may damage the electrical circuit of the vehicle.

1-3. Find Good Ground

One of the most important wire connections is the ground connection. Please find a spot that does not have any resistance to the battery ground. Improper ground will result in malfunction of the system.

1-4. Make sure your installation does not become a driving hazard later to the driver.

During installation process, please try to foresee there are any potential problems to the driver later.

a) Potential Driving Hazards

⇒ There should be no wiring around the brake.

b) Connection problem or Insulation problem

⇒ Please make sure all the connections are done by soldering and are properly insulated by electrical tape.

c) Will any of your installation be affected by the vibration and engine heat during driving?

⇒ Tie securely every components of your installation by use of bolts or cable tie. Be sure that engine heat will not damage any wiring inside of the engine compartment.

d) Organizing wiring after the installation

⇒ Improper wiring organization will result in electrical noise, connection problems, safety hazards.

e) User's familiarity with operating manual

⇒ Installer should thoroughly explain system operation to the user.

1-5. Vehicle check-up prior to and after the installation.

For your protection, check the vehicle inside and out including all of the vehicle operating conditions and various factory systems to make sure they work properly after installation in the same manner as prior to the installation.

M861A Wiring Diagram

CON1	1	RED	(+)12V Constant Input
	2	Violet	(+)Parking Light Output
	3	Brown	(+)Siren Output
	4	Gray	(+)Trunk Output
	5	Black	Ground
CON2	1	Yellow/Black	N.C
	2	Yellow	COM.
	3	Yellow/White	N.O
	4	Green/Black	N.C
	5	Green	COM.
	6	Green/White	N.O
CON3	1	Green	(+)Ignition Sensing
	2	Blue	(-)250mA Output to Starter Kill
	3	Red/Black	(-)Door Pin Sensing
	4	Red	(+)Door Pin Sensing
	5	Violet/Black	(-)Trunk Pin Sensing
	6	Light Blue/White	(+)Brake Sensing
	7	Black/White	(-)Optional Sensor Input
CON4	1	Black	Ground
	2	Black/White	(+)LED
CON5	1	Black	Ground
	2	White	(-)2nd Stage Shock Input
	3	Red	(+)12V Output
	4	Yellow	(-)1st Stage Shock Input
Antenna		Black	

Unlock

Lock

CON1

No 1 (Red) : (+)12V Input

Solder this wire to the vehicle's 12V constant. This wire must be supplied power all of the time and must be able to withstand high current draw.

No 2 (Green/ White) : (+)Output for parking Light

Positive parking light output.

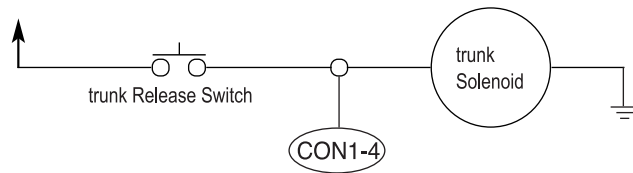
No 3 (Brown) : (+)12V Siren Output

The Black wire at the siren is to be chassis grounded.

The siren volume can be reduced by cutting the volume wire attached to the siren.

No 4 (Gray) : (+)12V Trunk Output

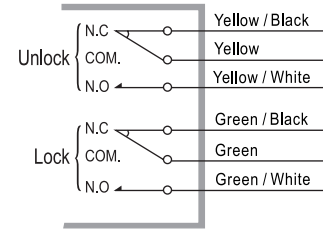
If the vehicle is equipped with electrical trunk release, the trunk out is connected to trigger the trunk solenoid.



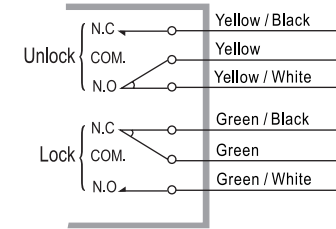
No 5 (Black) : Chassis Ground

This will be the one of the most important connections. Connect this wire to bare metal of the vehicle. We do not recommend using the steering column for a grounding point. Make sure you strip back the paint or use a factory grounding point. Bad grounding on this wire will be the beginning of future troubles.

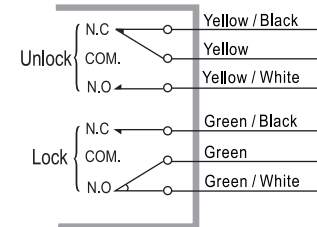
CON2



< Circuit diagram >



< Circuit diagram during unlock output >

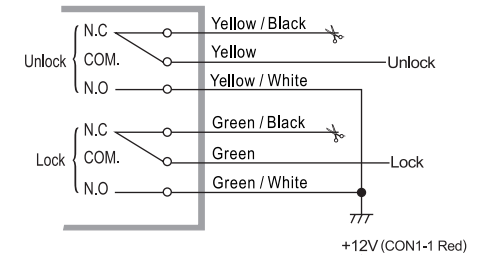


< Circuit diagram during lock output >

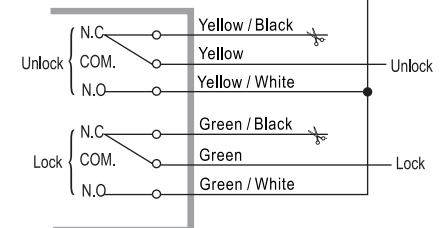
▶ Installers are able to install as per the following methods when you install, please find a suitable method as per the door system of your vehicle

※ The Wires of CN2 are not connected with any part of inside
Connect +12V to the wire placed between the Connector and the Fuse (20A)

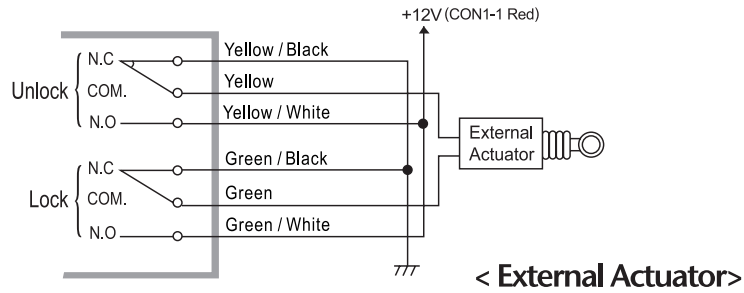
▷ **Method 1 :**
Negative Trigger Door Lock System
(W/O Actuator)



▷ **Method 2 :**
Positive Trigger Door Lock System
(W/O Actuator)



▷ **Method 3 : External Actuator**



CON3

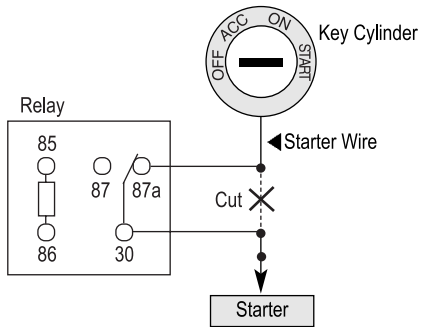
No 1 (Green) : (+12V) Ignition Input

This wire will test (using your digital multi-meter) 0V with the key off, and 12V with the key in the 'ON or RUN' position

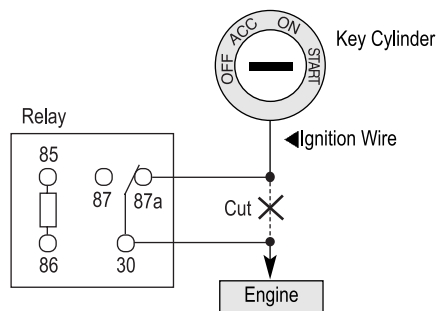
No 2 (Blue) : Negative Starter-Kill Output

Please use the pre-wired starter kill relay.

.... **Starterkill Mode ...**

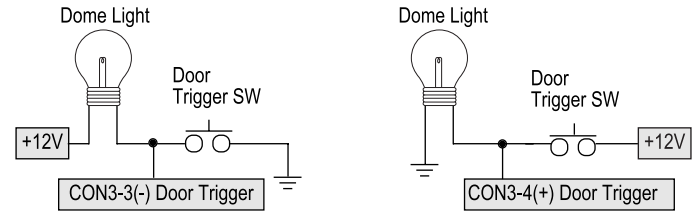


.... **Anti Jacking Mode ...**



No 3 (Red/Black) : Negative Trigger Door Open Sense

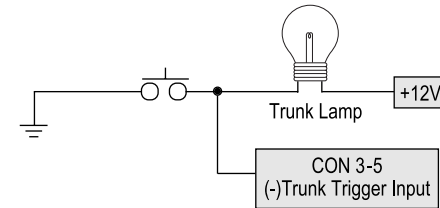
No 4 (Red) : Positive Trigger Door Open Sense



Please make sure you have found a correct door sensing wire that monitors all doors.

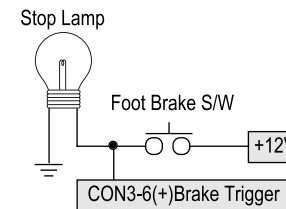
No 5 (Violet / Black) : (-) Trunk Trigger Input.

connect this to wire to the trunk lamp wire as shown below



No6 (Light Blue / White) : (+) Brake Trigger Input

Connect this wire to the foot Brake Wire as shown below.



No7 (Black /White) : (-) Input for optional Sensor

When installing additional sensors, use this wire as the input wire for those sensors. Always remember, when attaching more than one sensor to any input, you must diode isolate them so that they don't backfeed into each other.

CON4

No 1 (Black) : GND
No 2 (Black/White) : (+)LED } LED Ass'y



CON 5



No 1 (Black) : GND
No 2 (White) : (-)and stage shock Input
No 3 (Red) : (+12)
No 4 (Yellow) :(-)1st stage shock Input } Dual stage shock sensor

Antenna

When Magicar systems are installed, please pay attention to stretch out the wire of antenna. If the wire is bended or twisted seriously, it will be one of the reasons, which will reduce the receiving range.

Options Mode  + 

Press buttons  and  Simultaneously for 2 seconds in order to enter Option Mode.

	Features	 (Factory Default)	
1	Door Lock/Unlock Pulse Duration	0.8 Sec	4 Sec
2	Application of Pre-wired Kill Relay	Starter Kill	Anti-jacking (IG-kill)
3	Flashing Parking Light During Door Open	Disabled	Activated

Programming Menu Option

Note :

1. Door Lock/Unlock Pulse Duration :

If you set this mode, Door Lock/Unlock Pulse Duration will be changed 0.8 second to 4 seconds.

2. Start Kill Mode

Anti-Jacking(Ignition-Kill) :

The #2 wire of CON3 can be programmed to send a signal to a relay to disconnect the ignition wire of the vehicle anytime the vehicle is armed so that the vehicle cannot start or run by remote or key. The vehicle can also be shut off with remote by use of the panic command, even if it is running with a key in the ignition.

Starter-Kill :



The #2 wire of CON3 can be programmed to send a signal to a relay to disconnect the starter wire of the vehicle upon arming.

3. Parking Light Flashing :


With this option, the parking lights will flash if any door remains open while the vehicle is disarmed.


How to set Options

You can only program one option at a time. You will have to repeat the procedure for every option you would like to change.

Step1: Press buttons ( + ) for 2 seconds. The siren and signal lights will chirp and flash one time each.


- If you fail to program, the siren and signal lights will chirp and flash three times each.


Step2: Press button  the number of times to go to the option number you want to change.

- The siren and signal lights will chirp and flash one time whenever you press button  .

Step3: Wait a few seconds. You will hear a number of chirps and see a number of parking light flashes corresponding to the option number you want to change. If the number of chirps or flashes does not match the option number you want, wait 10 seconds, then start over at step 1.






Step4: Press button  or  as you want to program the option.

- If you press button  , the option will be set to the default setting. The siren and signal lights will chirp and flash one time each.



- If you press button  , the option will be set to the optional setting. The siren and signal lights will chirp and flash two times each.

EX) When you would like to program Option 3 which is for Flashing parking


Light during door open

1. Press button ( + ) for 2 seconds (The siren and signal lights will chirp one time each)
2. Press button  three times (The siren and signal lights will chirp and flash one time whenever press button ) and wait for 5 seconds.
3. The siren and signal lights will chirp and flash three times after 5 seconds
4. Press button  after confirmation of the siren and signal lights as no. 3 (The siren and signal lights will chirp and flash two times each.)

Canceling (Going to factory default) Option Mode

Step1: Press buttons ( + ) for 2 seconds (The siren and signal lights will chirp and flash one time each).

- If you fail to program, the siren and lights will chirp and flash three times each.

Step2: Press button  three times. (The siren and signal lights will chirp and flash once time the button is pressed.)

Step3: All options will be reset to factory defaults after the confirming 3 chirps and flashes.

Confirmation of Wrong Programming

When you press the buttons incorrectly, Option Mode will not be programmed and the siren will activate for 1 second.