

WIRING HARNESS FOR AS635/805

BLUE PLUG - FM 2 way antenna input  
(AS805 ONLY)



- RED, BLUE, BLACK, WHITE - Plug in dual stage sensor harness
- RED - Plug in LED
- BLUE - Plug in valet push button switch
- GREEN - negative lock
- RED - +12V out
- BLUE - negative unlock

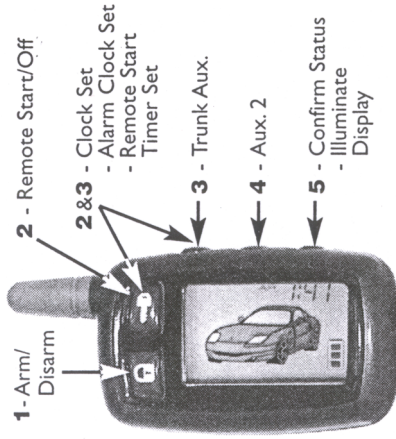
NOTE: 11-20 TOP ROW 1-10 BOTTOM ROW

- |  |   |
|--|---|
| 11. VIOLET - door trigger in (+)                   | 1. GREEN/WHITE - brake light input (+)      |
| 12. GREEN - door trigger in (-)                    | 2. BLACK/GREY - RPM input (pulse)           |
| 13. WHITE/BLACK - hood trigger input (-)           | 3. WHITE/RED - aux 2 output (-)             |
| 14. ORANGE - starter disable output (-)            | 4. BLACK/WHITE - interior light output (-)  |
| 15. VIOLET/WHITE - factory security disarm out (-) | 5. YELLOW - ignition input (+)              |
| 16. WHITE/VIOLET - factory security arm out (-)    | *6. BLUE/YELLOW - see note below            |
| 17. BROWN - siren output (+)                       | 7. BLUE/WHITE - passenger unlock output (-) |
| 18. GREY - aux 1 output (-)                        | 8. BLUE/ORANGE - ground when running output |
| 19. WHITE - parking light output                   | 9. BLACK - ground (-)                       |
| 20. BROWN/WHITE - aux 3 output (-)                 | 10. RED - +12V                              |

- VIOLET - starter out (+)
- YELLOW - ignition 1 out (+)
- ORANGE - accessories out (+)
- BROWN - auxiliary relay out (+)
- RED - battery 2 input (+)
- RED - battery 1 input (+)

\*Note: glow plug or parking brake input (+).  
This wire is programmable for use as either a glow plug input, or as a parking brake input for use with the turbo timer feature.

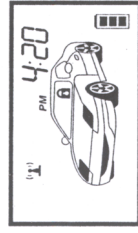
# AS805 2-WAY TRANSMITTER



## FM 2-WAY TRANSMITTER Transmitter Operation

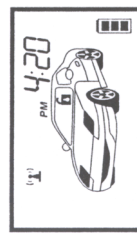
- 1 - ARM/DISARM/PANIC Button** - To arm or disarm the system, press button 1. To activate the panic feature, press button 1 and hold for three seconds.
- 2 - START Button** - To start the vehicle, press and hold button 2 for two seconds. To shut down the vehicle, press and hold button 2 for two seconds.
- 3 - TRUNK Button** - To activate the trunk output, press and hold button 3 for two seconds.
- 4 - AUXILIARY 2 Output** - To activate the Aux. 2 output, press and hold button 4 for two seconds.
- 5 - CONFIRMATION Button** - To check current status of the system, press buttons 2 & 3. The current status of the system will be displayed & illuminated on the transmitter.

## Transmitter Indications



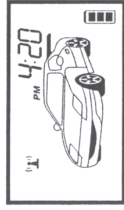
### Arm -

The display will show icon and the animated icon to confirm arming. Lights will flash once.



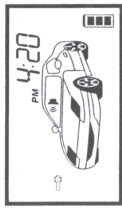
### Disarm -

The display will show and the animated to confirm disarming. Lights will flash twice.



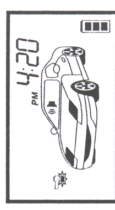
### Trunk -

The display will show and flash this icon opening to confirm.



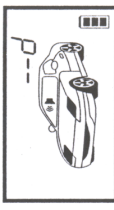
### Warn Away -

If the warning stage is triggered, the icon will flash.



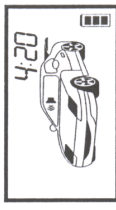
### Shock Sensor -

The display will show Shock and flash the animated icon to indicate shock sensor triggering.



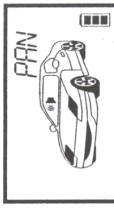
### Door -

If a door is opened while the system is armed, the display will show .



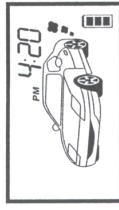
### Hood -

If the hood or trunk is opened while the system is armed, the icon will show and the lights will flash.



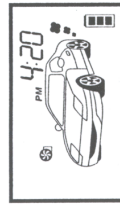
### Panic -

The display will show when the Arm/Disarm button is held to enter the Panic mode.



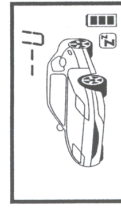
### Start -

The display will indicate the ignition is turned on and the engine is going to crank.



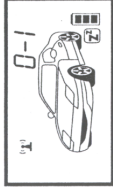
### Engine Run -

When the engine starts and continues to run, the icon will be displayed, and the icon will remain displayed.



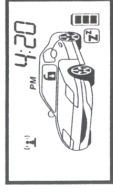
### Valet Mode -

The display will show to confirm entering the Valet mode.



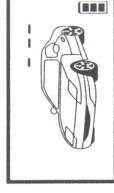
### Aux. 2 Output -

The display will show to confirm the Auxiliary 2 Output locking.



### Unlock (Valet) -

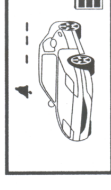
If the doors are unlocked with the transmitter in Valet mode, the display will show the icon to confirm unlock.



### Set Clock -

Press and hold buttons 2 & 3 for 2 seconds. The transmitter will beep twice and the display will show . Change hour by pressing button 2; change minute by pressing button 3. Press button #5 (Confirm Status) to set. The transmitter will play a tune to indicate new time is set.

### Continue to hold buttons 2 & 3 to:



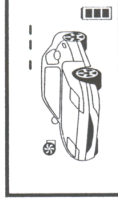
### Set Alarm Clock -

Press and hold buttons 2 & 3 until the transmitter beeps three times and the alarm clock icon () appears. Confirm the same way as setting clock.

### Turning Off Alarm Clock -

Press and hold buttons 2 & 3 until the transmitter beeps three times and the alarm clock icon appears. Press transmitter button 1. The icon will disappear and the alarm will be turned off.

### Continue to hold buttons 2 & 3 to:



### Set Start Timer -

Press and hold buttons 2 & 3 until the transmitter beeps four times and the fan icon () appears. Set the start timer the same way as setting the clock. The fan icon will remain displayed when set.

### Turning Off Start Timer -

Press and hold buttons 2 & 3 until the transmitter beeps four times and the alarm clock icon appears. Press transmitter button 1. The icon will disappear and the alarm will be turned off.

## STARTER SPECIAL FEATURES

## ENGINE RPM PROGRAMMING

- ê Select engine start RPM detection - step 20 in the programming table.
- ê With engine running select step 21 in the programming table, note the LED is blinking, indicating the RPM signal is detected properly, press button #1 on your remote control to record the idle RPM.

## ENGINE RUN DETECTION

- ê RPM-Engine run sensing is accomplished by supplying a RPM signal to the unit and teaching the "vehicle engine idle RPM". Engine stalled condition is defined as zero engine RPM.
- ê Smart Sense-Engine run is determined by measuring the battery voltage and engine noise. Engine stalled condition is defined if both the battery voltage and engine noise have been fallen below a pre-determined threshold.

## ENGINE START DETECTION

Engine start is detected only when using the RPM mode, in this mode RPM timing is compared to preprogrammed idle RPM, engine start is defined as 50% of idle RPM. If engine RPM did not reach that level within 10 seconds, engine cranking will be terminated. If Smart Sense is selected engine start is controlled by timing only.

## DIESEL/GASOLINE MODE

- ê Gasoline mode - Ignition is turned on 5 seconds before start.
- ê Diesel Mode - Ignition is turned on 10 seconds before start or until the glow plug is turned off whichever comes first.

## COLD START

Cold Start is programmable to every 1 or 2 hour intervals.

Enable Cold Start - with Ignition off simultaneously press the brake pedal valet switch and the disarm button on your remote - Parking lights will flash four times confirming that the feature has been enabled.

\* This feature will be canceled if the alarm has been armed and disarmed or ignition has been turned on.

## TIMING ADJUSTMENT

All starter timers have been preset from the factory. Different vehicles may require different settings. Use the optional Wizard for more precise adjustment that fit the specific vehicle.

## QUICK STOP

With engine running press remote start button on your transmitter, sidelights will flash twice indicating QUICK & STOP mode enabled, turn off the ignition switch, the engine will continue running.

## PROGRAMMABLE SYSTEM OPTIONS

The following is a description of the programming options of the system. Some of the program branches control more than one option, and may require accessing a particular branch number twice in order to program all desired features:

1. Arm mode. Select between manual and passive arming.
2. Auto rearming mode. When selected, the system will automatically re-arm 30 seconds after it is disarmed if the doors have not been opened.
3. Arming chirps. Selects between normal and silent operations.
4. Ignition door locking / override code set. This dual program branch selects ignition door locking, and programs the optional emergency override code.
  - Ignition door locking. Selects whether or not the system will automatically lock the doors 10 seconds after the ignition key is turned on.
  - Override code set. Change the emergency override code for a higher level of security.

5. Ignition door unlocking. Selects whether or not the system automatically unlocks the doors when the ignition is turned off. The ignition door locking feature may be programmed to unlock all doors or the driver's door only. If driver's door only is selected, the optional passenger unlock wire must be connected.  
(See two stage door lock diagrams)
6. Door unlock pulse. Select between one pulse or two pulse operation for the door unlock output. Many new imported vehicle's factory door locking systems require two pulses on the proper wire to unlock the doors. These systems can be interfaced directly without the use of relays or any additional circuitry by programming the systems for double unlock pulse.
7. Door lock pulse length. Selects between a 1-second and a 3-second output for door locking and unlocking. Program to 3 seconds for vehicles equipped with vacuum door locking systems.
8. Passive door locking. Selects whether or not the system will automatically lock the doors during passive arming and auto rearming mode.
9. Passive arming entry delay. When selected, the siren will chirp for 10 seconds before sounding if a door is opened. The system may be disarmed by simply turning on the ignition when programmed for this feature.
10. Ignore open door report. Bypasses the open zone warning chirps for vehicles equipped with a residual dome light circuit that remains on for a period of time after closing the door.
11. Aux 2 auto activate with arm. When selected, the auxiliary 2 output will activate when the system is armed. This feature can be used to roll-up windows, close sunroofs, activate accessories, etc.
12. Auxiliary 1 mode. Selects from momentary, 10 second timed, or latched operation for auxiliary 1. Momentary operation provides an output for as long as the transmitter button is pressed. Timed operation provides an output that turns on for 10 seconds each time the transmitter button is pressed. If the button is pressed again during the 30 seconds, the output will turn off. Latched operation provides an output that turns on when the transmitter button is pressed and remains on until the transmitter button is pressed again.  
NOTE: With the optional network interface and wizard software, and auxiliary function can be programmed to output for 1 second up to 255 seconds.
13. Auxiliary 2 mode. Selects from momentary, timed, or latched operation for auxiliary 2.
14. Disarm with auxiliary 1. When selected, activating the auxiliary 1 output (usually used to open the trunk) will disarm the alarm.
15. Start in valet mode. Selects whether or not the vehicle can remote start while in the valet mode.
16. Lock after start. When selected, the doors will automatically lock after remote starting.
17. Lock after shutdown. When selected, the doors will automatically lock after remote shutdown.
18. Engine run time. Selects between 15 or 25 minutes for the remote start run cycle.
19. Automatic start mode. Selects between every two hours or every hour for the automatic engine starting feature.
20. Engine sense mode. Selects between tachless and tach monitor operation.  
Tachless. Determines the engine status using an advanced software routine, without requiring connection to the vehicle's tachometer. Tachless operation may not be compatible with some vehicles or in severe temperatures, in which case the tach wire must be connected.  
Tach monitor. Monitors the vehicle's tach wire (or a fuel injection wire) in real-time to determine engine status and adjust starter crank time automatically. If programmed for tach monitor, the vehicle's tach signal will have to be learned before initial operation.
21. Remote start program. This dual program branch sets the engine mode for gas or diesel, and learns the vehicle's RPM threshold. For installation into a diesel equipped vehicle, first set the engine type to diesel before learning RPM.  
RPM learn. After engine type is set, start the engine, re-enter branch 21 and press button #1 to learn the vehicle's tach signal. The siren will chirp and the LED will flash once to confirm learning of the tach signal. The siren will chirp four times and the LED will flash four times if the tach signal was not learned.  
Gas engine. Set the engine type for gasoline.

Diesel engine. Sets the engine type for diesel and monitors the glow plug input to make sure the glow plugs are warm before cranking the starter. If the glow plug wire is not connected, the built-in timer waits 15 seconds before automatically cranking the starter.

22. FM transmitter program.\* Programs the optional FM module and transmitter into the system.

FM module learn. Learns the add-on FM module ID so the FM transmitter can operate the system. The FM module must be connected before completing this step.

FM remote learn. Learns the optional 2-way FM transmitter. Press button #2 on the 1-way remote to enter FM transmitter learn mode, then press transmitter button #1 on each FM remote (max 2).

\*Requires the optional ASUFMK FM LCD pager module.

23. Ignition 2 relay program. Selects one of three operating modes for the ignition 2 relay output: ignition 2, accessory 2, or starter 2.

24. Horn output. When set for horn output the horn wire will pulse when the alarm is triggered. When ignition 3 output is selected, the output will activate during remote start to trigger a relay for ignition 3.

25. Turbo timer. When enabled, if the emergency brake has been applied ignition power will be kept on for a predetermined time (2 minute factory default) from the application of the emergency brake.

## PROGRAMMABLE FEATURES

### FEATURE PROGRAMMING MODE

1. Turn ignition key on.
2. Within 10 seconds press valet switch 5 times. The siren will chirp 3 times indicating you are in feature programming mode.
3. Select the feature you want to change by pressing the valet switch the number of times as the feature number. (Every time valet switch is pressed the siren will chirp once).
4. Select the desired option by pressing the transmitter's buttons #1, #2, or #3.

Siren chirps will follow each button press, once for button #1, twice for button #2 and three times for button #3.

### RESET TO FACTORY DEFAULT SETTING

Enter programming mode (steps 1 & 2, see above). Press and release button #3 on the remote, siren will chirp 6 times and all programmable features will reset to factory default position. Factory default is indicated in column 1 of the programming table.

### SENSOR ADJUST MODE

While ignition is on use your transmitter to press transmitter function button (side button) 3 times, then press button #3, siren will chirp 4 times indicating that the system is in sensor adjust mode. Every time sensor 1 triggers siren will chirp once, if warn-away triggers siren will chirp twice, and when optional sensor 2 triggers siren will chirp three times. To get out of this mode turn ignition off, and on.

### DOOR TRIGGER DELAY IN PASSIVE MODE

If enabled, when the alarm arm's passively, upon opening the door siren will chirp for 10 seconds then will trigger the alarm, unless you turn the ignition on within that 10 seconds. This will disarm the system. This enables you to use the alarm without remotes.

### SECURE AUXILIARY OUTPUTS

Each auxiliary output can be programmed so that it can be activated only when the system is disarmed and the ignition switch is off. This feature is particularly useful when the output is used for trunk release purpose. This prevents the trunk to be released accidentally by pressing the trunk release button on the remote transmitter while driving or while the alarm is armed.



## PERSONALIZED OVERRIDE CODE

To select your personal security code to override the alarm. Go to access feature programming mode branch #4, press button #3 on the transmitter, select your personal security code by pressing the valet switch to a desired number (1 to 15), then turn the ignition off.

To disarm the alarm when triggered, turn ignition on press the valet switch to the selected number times and hold for 10 seconds on the last press until the alarm turns off.

BRANCH	TX BUTTON 1 ( default setting )	TX BUTTON 2	TX BUTTON 3
#	MODE 1	MODE 2	MODE 3
0	-----	-----	factory reset
1	passive arm disable	passive arm enable	-----
2	auto rearm disable	auto rearm enable	-----
3	chirp enable	chirp disable	-----
4	ignition lock enable	ignition lock disable	programming emergency coded override
5	ignition unlock all doors	ignition unlock driver door	ignition unlock off
6	unlock single pulse	unlock double pulse	-----
7	lock/unlock pulse 1sec	lock/unlock pulse 3sec	lock/unlock pulse 0.1sec
8	lock on passive arm disable	lock on passive arm enable	-----
9	door trigger delay in passive mode disable	door trigger delay in passive mode enable	-----
10	bad door zone report in 5 seconds	disable bad door zone report	-----
11	activate aux. 2 upon arming-disable	activate aux. 2 upon arming-enable	-----
12	aux. 1 pulse	aux. 1 timed	aux. 1 latched
13	aux. 2 pulse	aux. 2 timed	aux. 2 latched
14	disarm with aux. 1 disable	disarm with aux. 1 enable	-----
15	start in valet disable	start in valet enable	-----
16	lock upon start	no lock upon start	-----
17	lock upon shutdown	no lock upon shutdown	-----
18	run time 12 minutes	run time 24 minutes	-----
19	cold start every 2 hours	cold start every 1 hours	-----
20	smart start enable	RPM start enable	-----
21	learn RPM starting threshold	set starter for gasoline vehicle	set starter for diesel vehicle
22	enable 2-way FM pager	program additional 2-way FM transmitters	-----
23	auxiliary relay out ignition 2	auxiliary relay out accessory 2	auxiliary relay out starter 2
24	aux. 3 horn out	aux. 3 ignition out	-----
25	turbo timer disabled	turbo timer enabled	-----

## PARKING LIGHT POLARITY SELECTION

Remove the plastic cover of the control module and find jumpers W5 and W2 on the PCB.

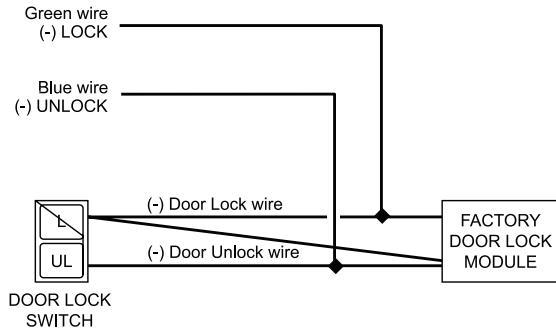
ê Select parking light polarity output by connecting the center tap to "+" or "-" of jumper W5.

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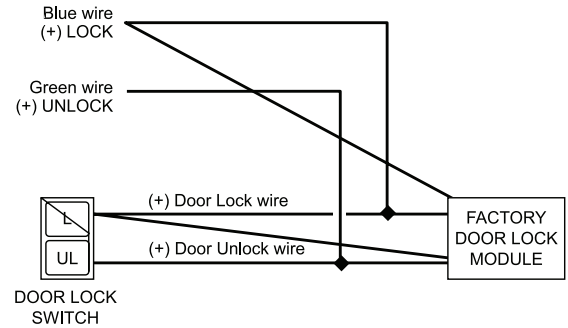
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Follow the diagrams below for connecting basic door lock systems. For Two Stage door lock systems (separately unlocks driver and passenger doors) see following pages.

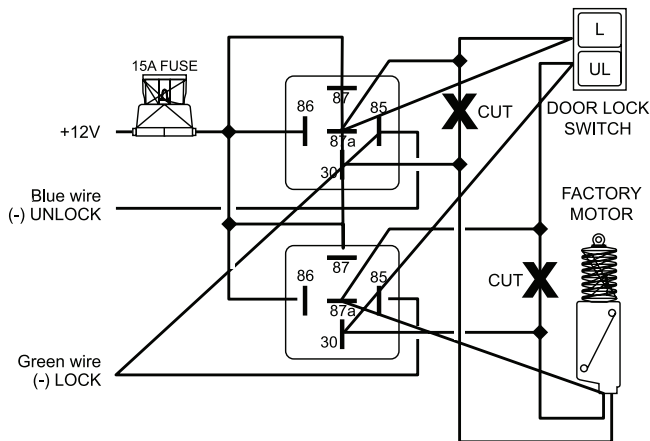
### Negative Trigger



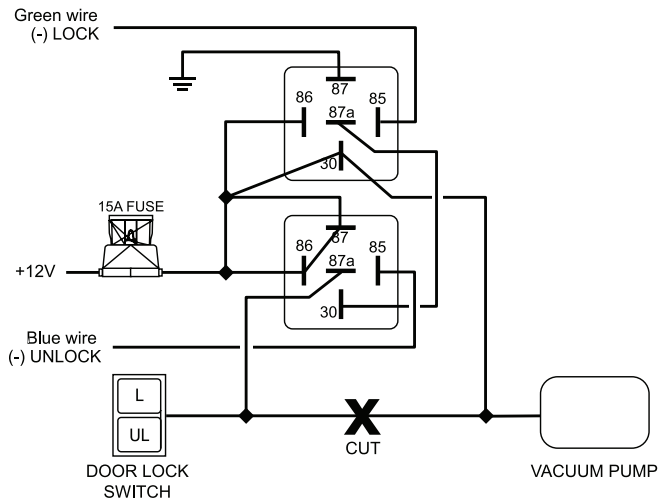
### Positive Trigger



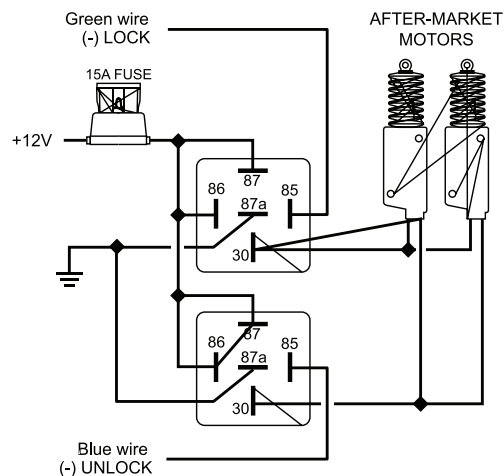
### Reverse Polarity



### Vacuum



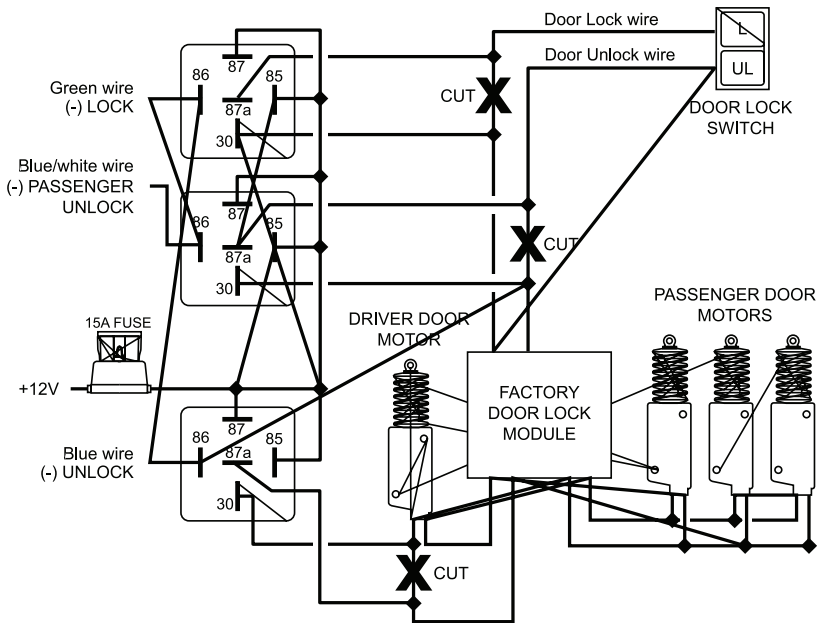
### Adding Actuators



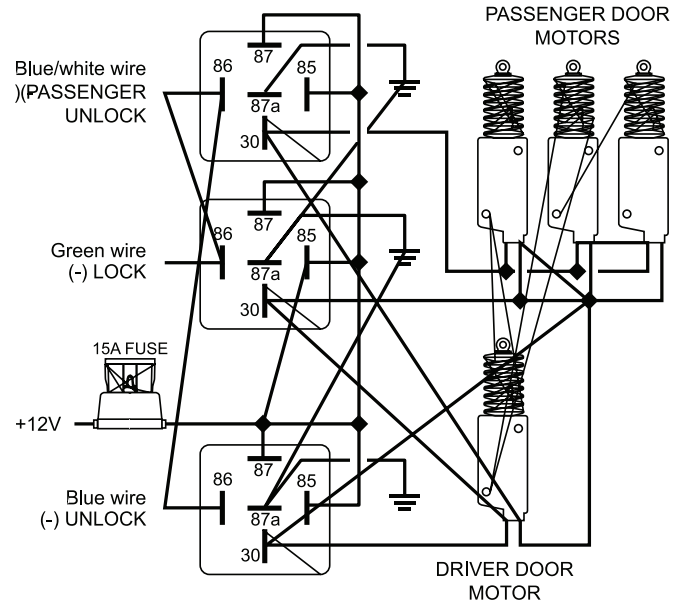
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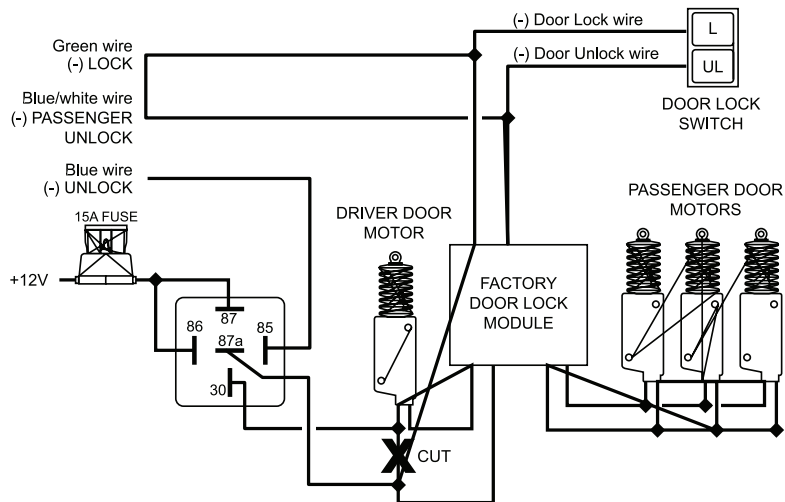
### Two Stage Reverse Polarity



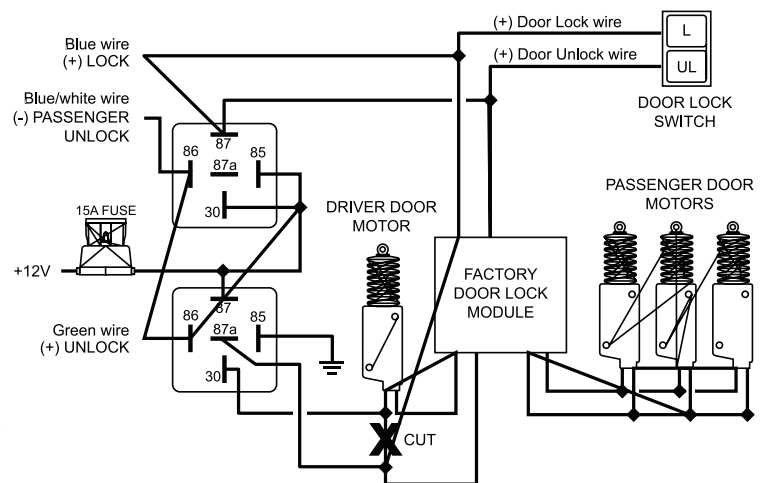
### Two Stage Adding Actuators



### Two Stage Negative Trigger



### Two Stage Positive Trigger



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