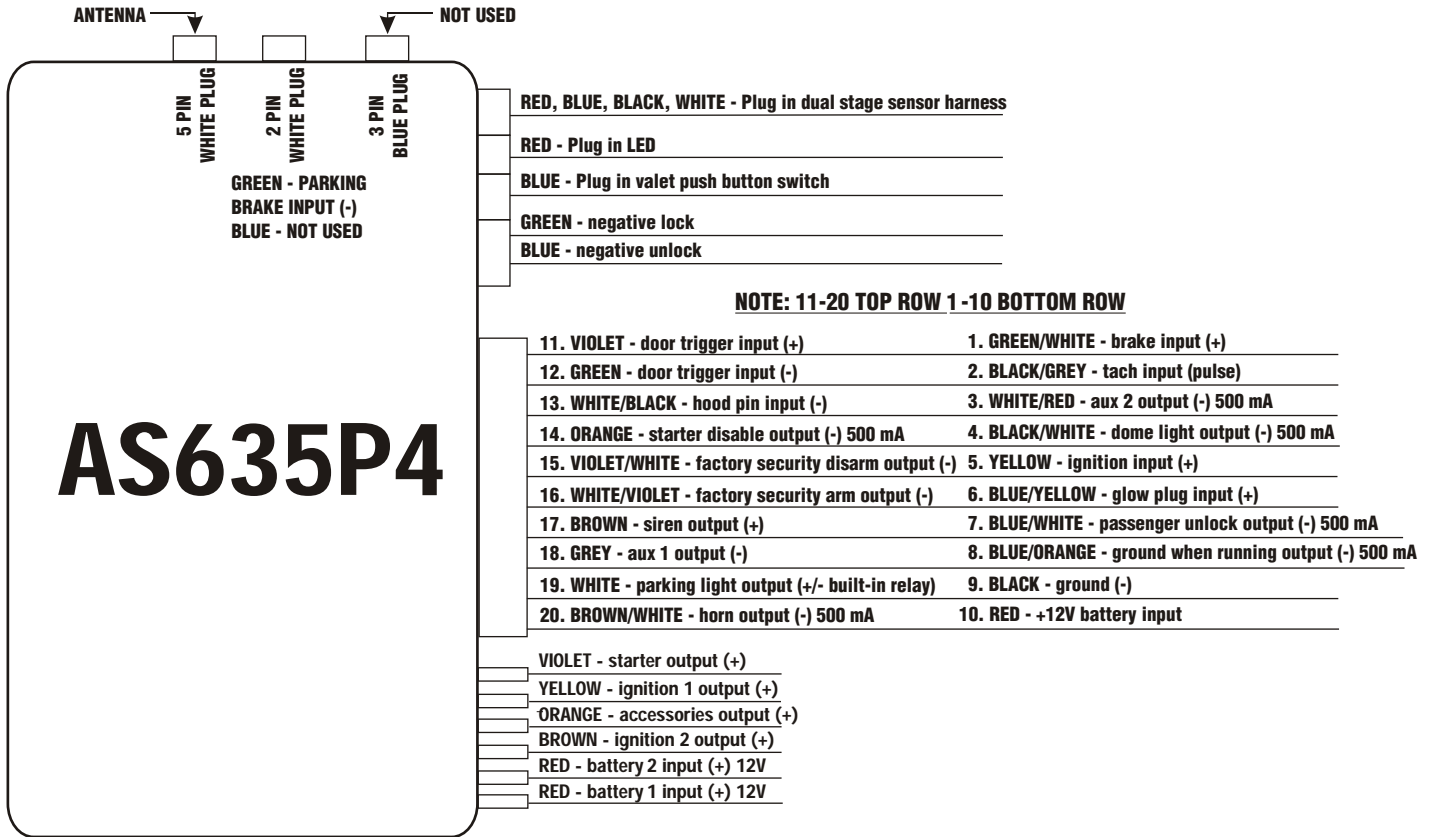


WIRING HARNESS FOR AS635P4



6-PIN MAIN HARNESS

- Pin 1 RED WIRE A: Main Power Input A (+).** Connect to the battery or constant power wire at the ignition switch with a minimum 30 Amp supply. Remove the fuse until the installation is complete and all wiring is checked.
- Pin 2 RED WIRE B: Main Power Input B (+).** Connect to the battery or constant power wire at the ignition switch with a minimum 30 Amp supply. Note: if connecting at the ignition switch it is highly recommended to use separate power wires for each RED wire, each with a minimum 30 Amp supply. Remove the fuse until the installation is complete and all wiring is checked.
- Pin 3 BROWN WIRE: Second Ignition Output (+).** The brown wire provides +12V for a second ignition wire. This wire may instead be programmed for use as a second accessory or second starter wire.
- Pin 4 ORANGE WIRE: Accessory Output (+).** Connect to the accessory wire coming from the ignition switch that supplies power to the heater/air conditioner. Some cars may have multiple accessory wires.
- Pin 5 YELLOW WIRE: Ignition Output (+).** Connect to the main ignition wire that provides +12V when the ignition is on and while cranking the starter. The voltage must not drop when the car is starting.
- Pin 6 VIOLET WIRE: Starter Output (+).** Connect to the vehicle's starter wire.

20-PIN MAIN HARNESS

- Pin 1 GREEN/WHITE WIRE: Brake Input (+).** Connect to the wire that shows +12V when pressing the brake. The GREEN/WHITE wire is a safety shutdown wire that must be connected.
- Pin 2 BLACK/GRAY WIRE: Tack Input.** Connect to the vehicle's tach wire or a fuel injector wire if the tachless mode does not provide satisfactory operation.
- Pin 3 WHITE/RED WIRE: Auxiliary 2 Output (-) 500mA.** Connect to a relay or module for an optional feature such as power window activation, etc. This output may be programmed for momentary, timed, or latched operation.
- Pin 4 BLACK/WHITE WIRE: Dome Light Output (-) 500mA.** Connect to the wire that activates the vehicle's dome light, usually the door pin switch wire. Note: The dome light output can usually connect to the same wire used for the door trigger input (see GREEN and VIOLET door trigger wires).
- Pin 5 YELLOW WIRE: +12V Ignition Input.** Connect to the main ignition wire that provides +12V when pressing the ignition is on and while cranking the starter.
- Pin 6 BLUE/YELLOW WIRE: Glow plug input (+).** For vehicles equipped with diesel engines the BLUE/YELLOW wire must be connected to the wait-to-start light in the gauge panel. This wire will show +12V when the light is on, and ground when the light turns off. If the wait-to-start wire shows ground when the light is on, a relay must be installed.
- Pin 7 BLUE/WHITE WIRE: Passenger Unlock Output (+) 500mA.** Connect to a relay to unlock the passenger doors when the system is configured for Driver Priority Unlocking.

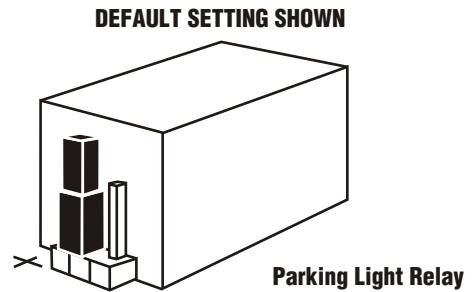
- Pin 8 BLUE/ORANGE WIRE: Ground When Running Output (-) 500mA.** Connect to an optional factory security bypass module if required.
 - Pin 9 BLACK WIRE: Ground Input (-).** The BLACK wire must connect to a solid chassis ground. Clean away any paint or dirt to insure the best possible ground.
 - Pin 10 RED WIRE: Module Power Input (+).** Connect to a constant source of 12V.
 - Pin 11 VIOLET WIRE: Positive Door Input (+).** Connect to the door switch circuit wire that shows +12V when the door is open. This type of door circuit is usually found of Ford vehicles.
 - Pin 12 GREEN WIRE: Negative Door Input (-).** Connect to the door switch circuit wire that shows ground when the door is open.
 - Pin 13 WHITE/BLACK WIRE: Hood Pin Input (-).** Connect to the hood pin switch. The switch must provide a ground output when switch is opened.
 - Pin 14 ORANGE WIRE: Armed Output (-) 500mA.** The ORANGE wire provides a ground output while armed to activate a relay for starter disable and anti-grind protection.
 - Pin 15 VIOLET/WHITE WIRE: Factory Disarm Output (-) 500mA.** The VIOLET/WHITE wire provides a ground output on disarming and before remote starting to disarm a factory security system. Connect to the wire that requires a ground pulse to disarm the factory security system.
 - Pin 16 WHITE/VIOLET WIRE: Factory Rearm Output (-) 500mA.** The WHITE/ VIOLET wire provides a ground output on remote start shutdown to rearm a factory security system. Connect to the wire that requires a ground pulse to rearm the factory security system.
 - Pin 17 BROWN WIRE: Siren Output (+) 3A.** The Brown wire must connect to the siren's red wire. The black siren wire must be grounded.
 - Pin 18 GRAY WIRE: Auxiliary 1 Output (-) 500mA.** Connect to a relay for an optional feature such as trunk release, etc. This output may be programmed for momentary, timed, or latched operation.
 - Pin 19 WHITE WIRE: Parking Light Output (+/-) Relay.** Connect the WHITE wire to the circuit that shows +12V or ground only when the parking lights are on and set the internal parking light relay jumper to the proper polarity. For parking light circuits exceeding 10 amp, a relay is required. For vehicles with independent left and right parking light circuits, diodes must be installed to keep the circuits separate.
- NOTE: Do not connect the WHITE wire to the vehicle's headlight circuit.

JUMPER SELECTION: Carefully separate the top and bottom halves of the main unit case. Once the cover is removed, the parking light polarity jumper will be visible next to the parking light relay.

Set the jumper for the correct polarity output as described below, then reassemble the main unit case.

PARKING LIGHT OUTPUT: Selects the polarity (+/-).
For the output of the on-board parking light relay.

- Left Pin + Center Pin = Positive**
- Right Pin + Center Pin = Negative**



- Pin 20 BROWN/WHITE WIRE: Horn Output (-) 500 mA.** Connect to a relay to honk the vehicle's horn when the panic feature is triggered. The wire may instead be programmed as an ignition 3 relay trigger.

PLUG-IN CONNECTORS

4-Pin White Connector: Dual stage sock sensor port.

2-Pin Red Connector: LED port.

2-Pin Blue Connector: Valet switch port.

3-Pin White Door Lock Connector: Door lock port.

- BLUE WIRE - Negative unlock output (-) 500mA.
- RED WIRE - NOT USED OR NOT AVAILABLE
- GREEN WIRE - Negative lock output (-) 500mA.

3-Pin Blue Connector: NOT USED

2-Pin White Connector:

- GREEN WIRE - Parking brake input (-) For vehicles equipped with a turbo charged engine. Must be connected if using the Turbo Timer feature.
- BLUE WIRE - NOT USED

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ADDING/REPLACING TRANSMITTERS

To replace lost or stolen transmitters or to add additional transmitters into the system, have all desired transmitters ready and follow the steps below.

NOTE: Up to 4 transmitters can be programmed to operate the system. To erase any previously stored transmitter codes, be sure to program all 4 transmitters (4 transmitter memory locations).

To program the transmitter(s):

1. Turn the ignition key On, Off, On, Off and back On.
 - The parking lights will flash 3 times.
2. Press and hold the Override switch for 5 seconds.
 - The parking lights will flash 5 times.
 - The LED will illuminate.
3. Press Button 1 on the first transmitter.
 - The parking lights will flash once.
4. Press Button 1 on the first transmitter again.
 - The parking lights will flash twice to indicate it has learned the code.
5. Repeat steps 3 and 4 for each transmitter (up to 4).
6. Turn off the ignition key.
 - The parking lights will flash 3 times.

Two Car Operation

If two vehicles are equipped with a AS635P3, for convenience both can be operated using the same remote transmitter. If all four transmitters are to be used with both cars, program transmitters A and B into the first vehicle in the manner described above. Program transmitters C and D by pressing the Shift button twice before performing steps 3 and 4 above.

When finished programming the firsts vehicle, program transmitters C and D into the second vehicle as normal, then program transmitters A and B by pressing the Shift button twice before performing steps 3 and 4 above.

When programmed in this manner, the driver of the first car can also operate the second vehicle by pressing the Shift button twice and the desired function button.

ENTERING SYSTEM PROGRAMMING

1. Turn on ignition.
2. Within 5 second, press the valet switch 5 times.
 - The parking lights will provide one long chirp, indicating that you have entered Programming.
3. Press the valet switch the number of times equal to the System Parameter you want to change.
 - The parking lights will flash each time the valet switch is pressed.
4. Within 5 seconds, press the transmitter button corresponding to the desired operating mode for that System Parameter.
 - The parking lights will flash to indicate the setting.

1 flash	=	Button 1
2 flashes	=	Button 2
3 flashes	=	Button 3
5. When you are finished, turn off the ignition to save the changes.

DEFAULT RESET

Following this procedure will set all System Programming Parameters to factory default settings.

1. Enter System Programming.
2. Press Transmitter Button 3.
 - The parking lights will flash 6 times indicating that the reset signal was received.
 - All System Programming Parameters are now set to factory default settings.
 - The Valet Mode is off.
3. Turn off ignition.

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 import 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.

BRANCH	FEATURE	BUTTON 1 (default)	BUTTON 2	BUTTON 3
1.	ARM MODE	MANUAL ARMING	PASSIVE ARMING	
2.	AUTO REARMING MODE	DISABLED	ENABLED	
3.	ARMING CHIRPS	SIREN CHIRPS	SILENT	SIREN & HORN CHIRP
4.	IGNITION DOOR LOCKING	ON	OFF	SET OVERRIDE CODE
5.	IGNITION DOOR UNLOCKING	UNLOCK ALL	UNLOCK DRIVER ONLY	OFF
6.	DOOR UNLOCK PULSE	SINGLE	DOUBLE	
7.	DOOR LOCK PULSE LENGTH	1 SECOND	3 SECONDS	0.1 SECONDS
8.	PASSIVE DOOR LOCKING	DISABLED	ENABLED	
9.	PASSIVE ARMING ENTRY DELAY	DISABLED	ENABLED	
10.	IGNORE OPEN DOOR REPORT	OFF	IGNORE	
11.	AUX 2 ACTIVATE ON ARM	OFF	ON	
12.	AUX 1 MODE	PULSED	TIMED	LATCHED
13.	AUX 2 MODE	PULSED	TIMED	LATCHED
14.	DISARM WITH AUX 1	DISABLED	ENABLED	
15.	START IN VALET MODE	DISABLED	ENABLED	
16.	LOCK AFTER START	ON	OFF	
17.	LOCK AFTER SHUTDOWN	ON	OFF	
18.	ENGINE RUN TIME	15 MINUTES	25 MINUTES	
19.	AUTOMATIC START MODE	2 HOURS	1 HOUR	
20.	ENGINE SENSE MODE	TACHLESS		
21.	REMOTE START PROGRAM	RPM LEARN/TACH MONITOR	GAS ENGINE	DIESEL ENGINE
22.	IGNITION 2 OUTPUT PROGRAM	IGNITION 2 OUTPUT	ACCESSORY 2 OUTPUT	STARTER 2 OUTPUT
23.	HORN HONK OUTPUT	HORN OUTPUT	IGNITION 3 OUTPUT	
24.	TURBO TIMER	DISABLED	ENABLED	
25.	EXTENDED PARKING LIGHTS	ON	OFF	
26.	WARN-AWAY REPORT	ENABLED	DISABLED	

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. **RPM lean/tach monitor.** 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/Tach Monitor. Start the engine, enter Branch 21 and press Button 1 to learn the vehicle's tach signal and set the Tach Monitor Mode. The siren will chirp and the LED will flash once to confirm learning of the tach signal and set the Tach Monitor Mode. The siren will chirp four times and the LED will flash four times if the tach signal was not learned.

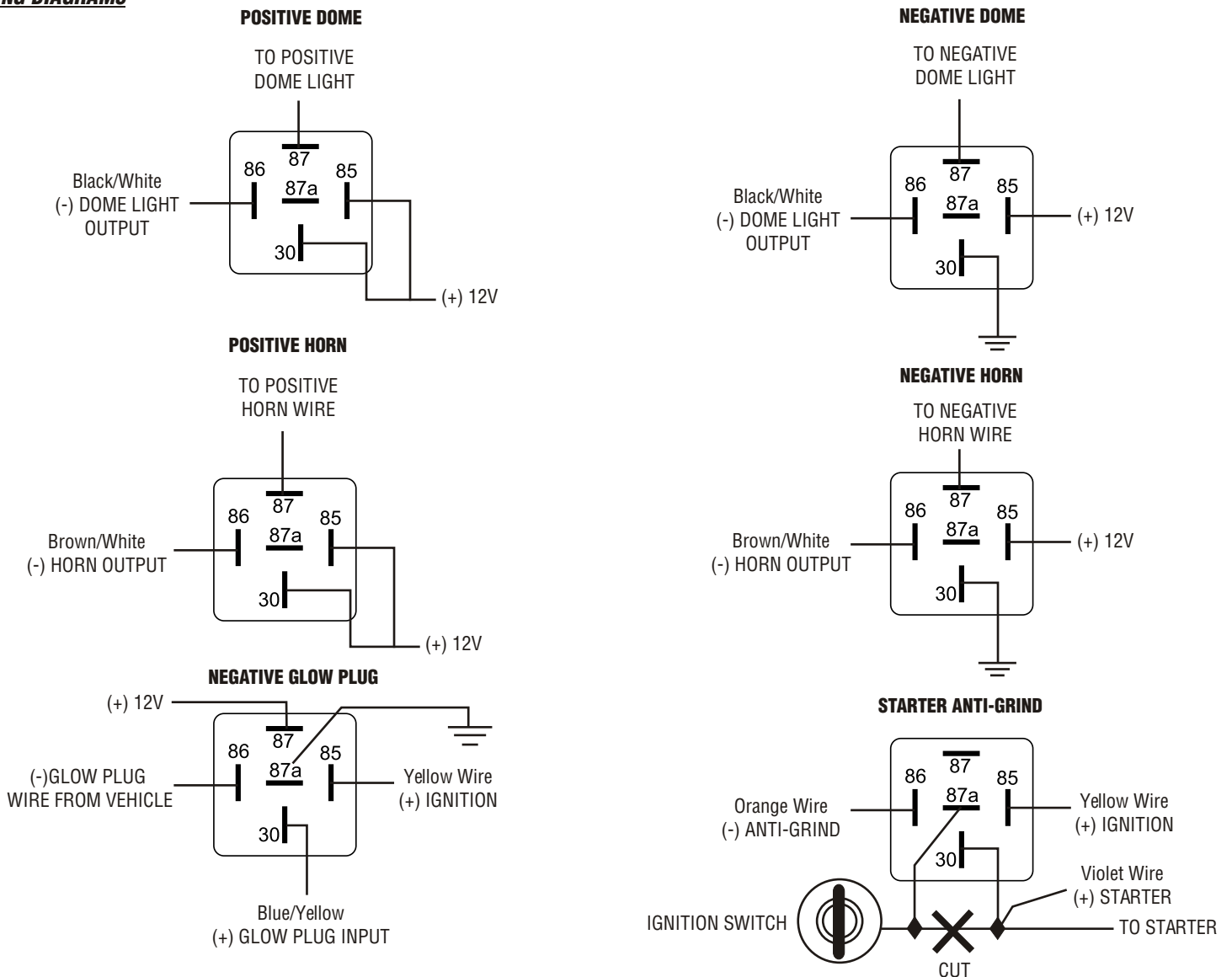
Tach Monitor Mode: monitors the vehicles's tach wire (or a fuel injection wire) in real-time to determine engine status and adjust starter crank time automatically.

Gas Engine. Sets 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 plug wire is not connected, the built-in timer waits 15 seconds before automatically cranking the starter.

- 22. **Ignition 2 relay program.** Selects one of three operating modes for the ignition 2 relay output: Ignition 2, accessory 2, or starter 2.
- 23. **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.
- 24. **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.
- 25. **Extended parking lights.** When enabled, upon disarming parking lights will turn on for 30 seconds or until the dome light turns off.
- 26. **Warn-away pager report.** When enabled, warn-away report will be sent to the pager. If disabled no warn-away report will be sent to the pager.

WIRING DIAGRAMS



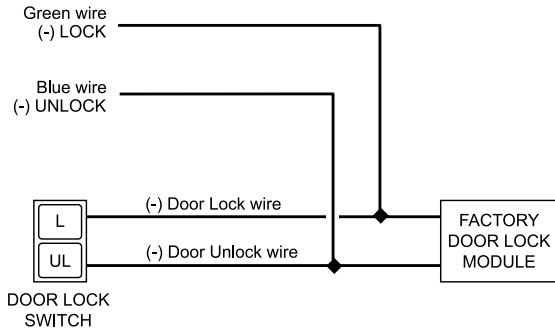
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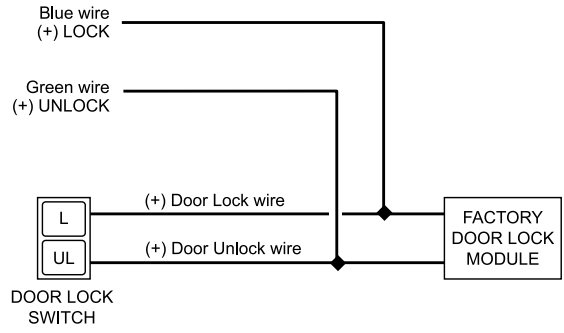
DOOR LOCK DIAGRAMS

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.

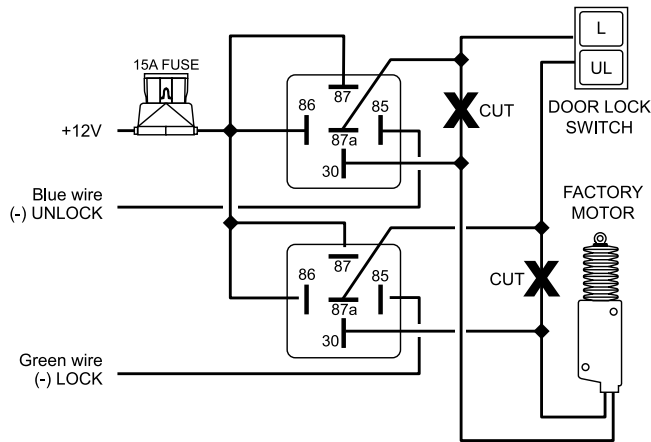
Negative Trigger



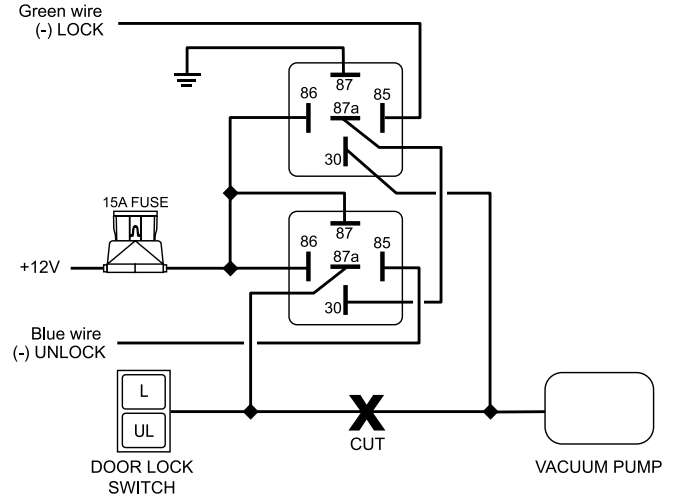
Positive Trigger



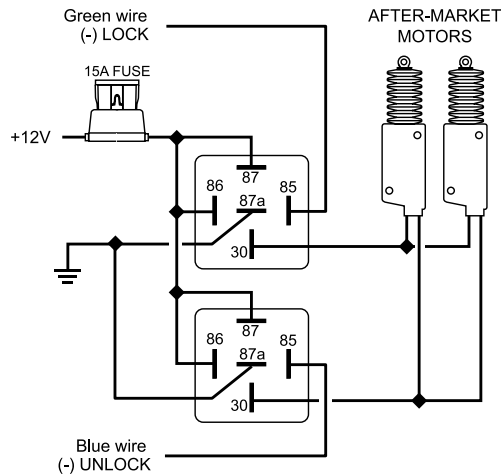
Reverse Polarity



Vacuum



Adding Actuators



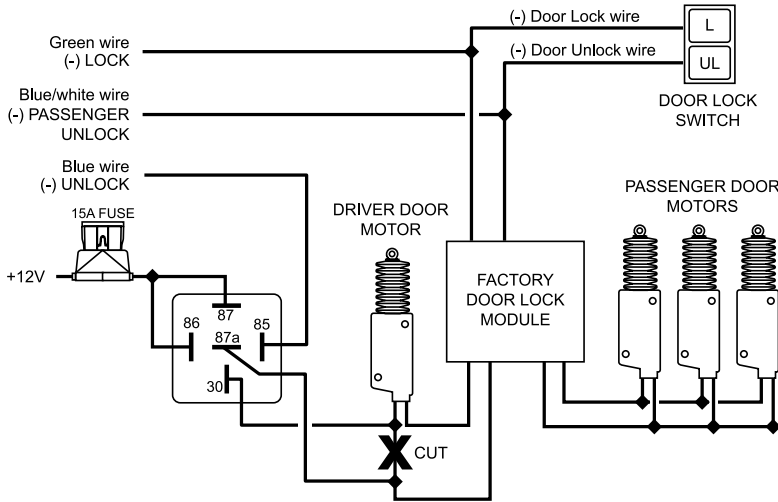
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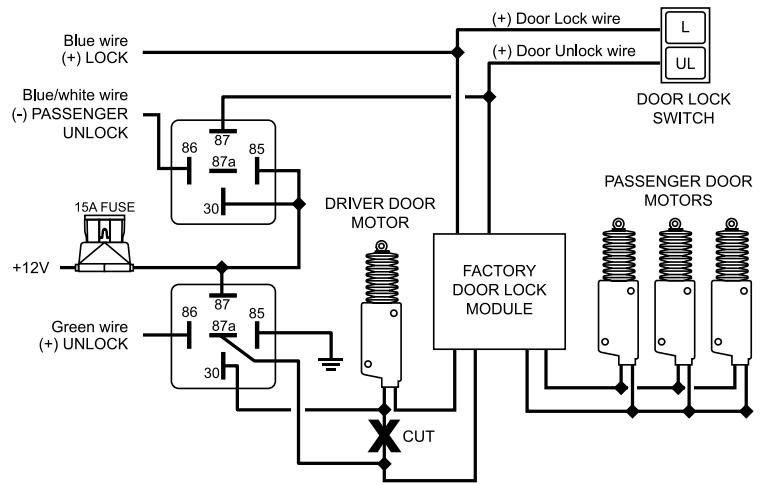
TWO STAGE DOOR LOCK DIAGRAMS

The AS635P3 is equipped with a dedicated passenger unlock output allowing Two Stage Door Lock operation. When connected as shown below, unlock the system will unlock only the driver's door. Pressing the unlock button again will unlock all doors.

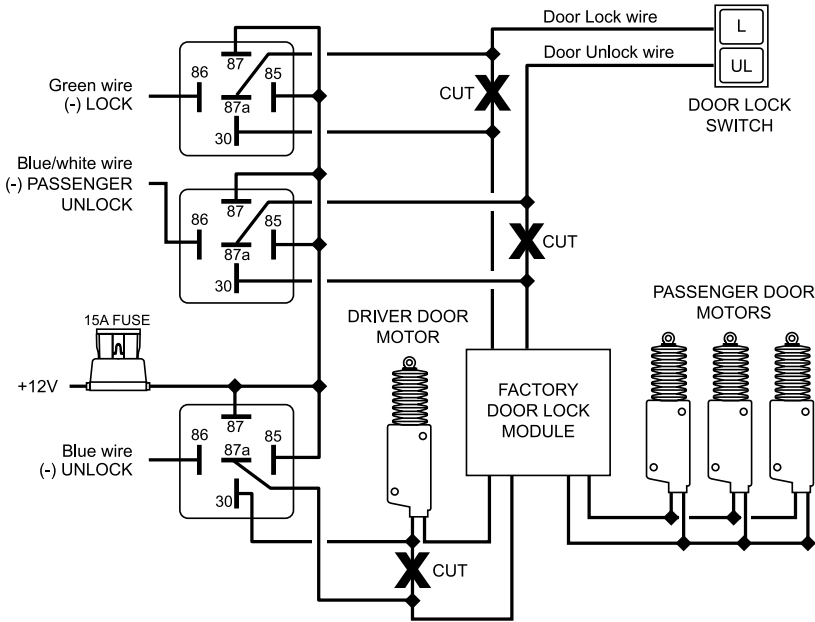
Two Stage Negative Trigger



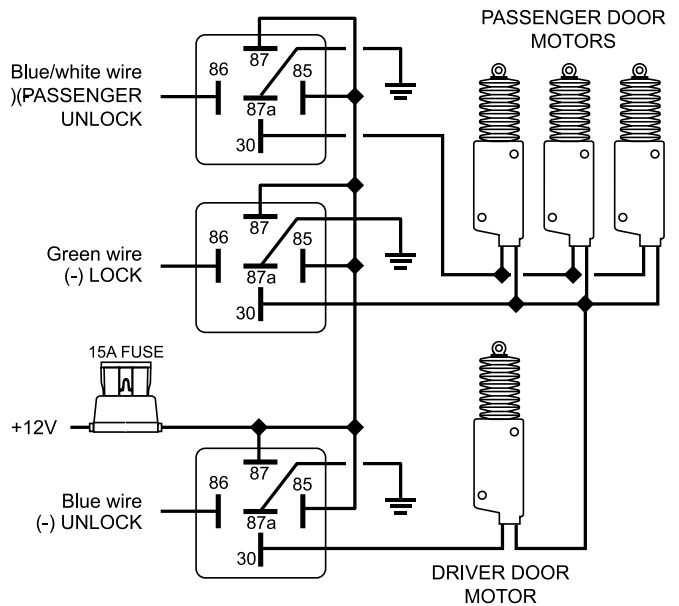
Two Stage Positive Trigger



Two Stage Reverse Polarity



Two Stage Adding Actuators



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