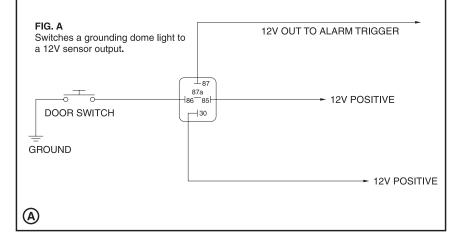
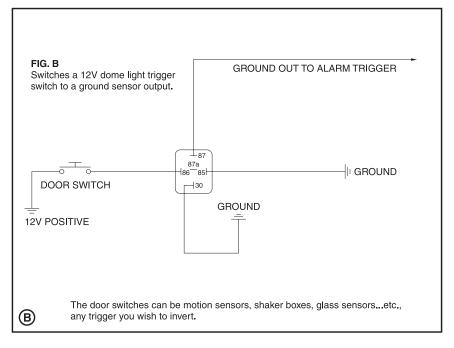
# Bosch Type Relay Wiring Diagrams

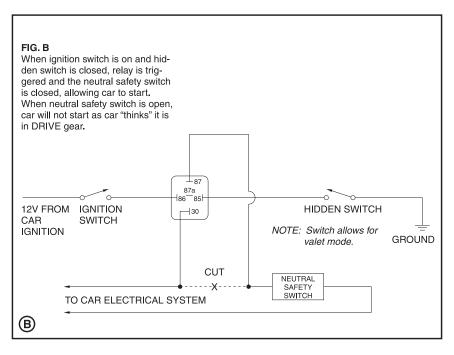
# ALARM TRIGGER INVERTER

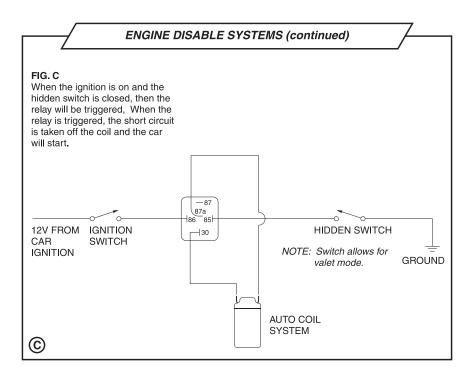
Most alarms on the market have both a positive and a negative trigger. Although both are supplied, only *ONE* type of trigger can be wired, not both. If you have a car that switches 12V to a dome light and you want to install a motion sensor that supplies a ground, you must invert one of the signals. (i.e. The grounding motion sensor to a 12V sensor.)

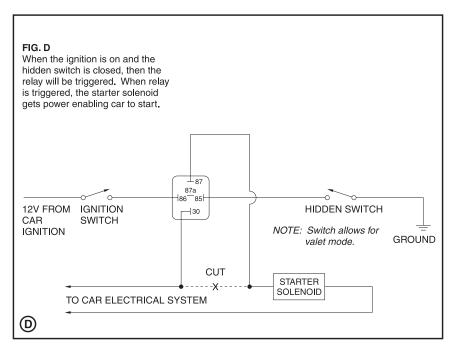




# ENGINE DISABLE SYSTEMS There are many ways of disabling a car from starting. Check with the car's service manual to see which method best fits your needs. FIG. A The ignition switch must be on and the hidden switch must be closed, to trigger the relay to close. When relay is closed, fuel pump will have power and car will get gas to run. IMPORTANT NOTE: THIS METHOD IS NOT TO BE USED FOR DIESEL ENGINES! ⊥87 87a 85 12V FROM IGNITION HIDDEN SWITCH -|30 CAR **SWITCH** NOTE: Switch allows for IGNITION GROUND valet mode. CUT **FUEL PUMP** TO CAR ELECTRICAL SYSTEM **(A)**

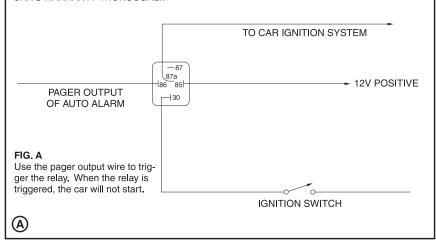


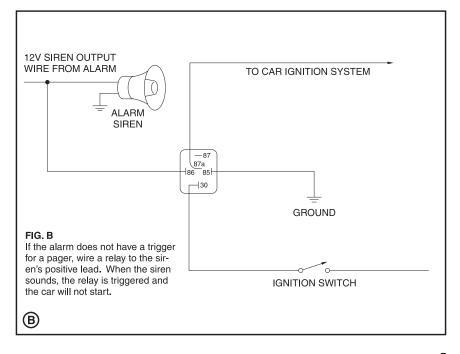


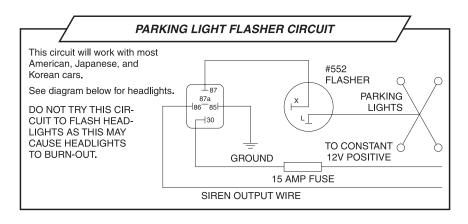


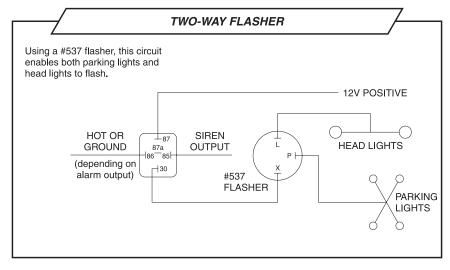
# IGNITION KILL CIRCUIT

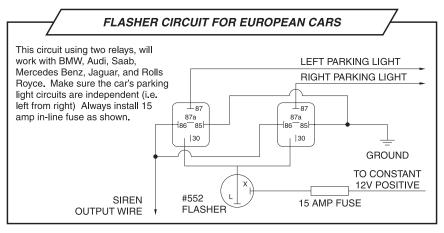
To prevent car from starting after the alarm has been triggered and until alarm is reset, you can wire a relay to the car's ignition system. Note: When doing any ignition kill circuitry, it is recommended (when possible) that connections be made at the terminals or connectors, as opposed to splicing into the wiring. This enables you to wire in series rather than interrupting. (Most vehicle manufacturers have some stipulations concerning alterations in ignition system wiring. CHECK YOUR CAR'S WARRANTY THOROUGHLY.

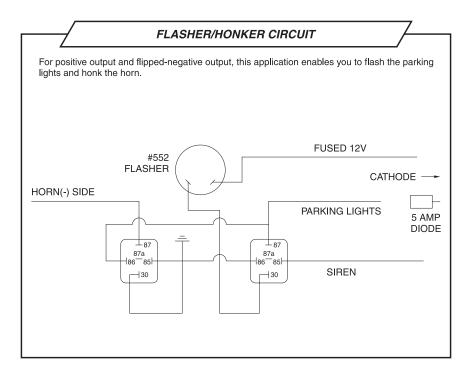


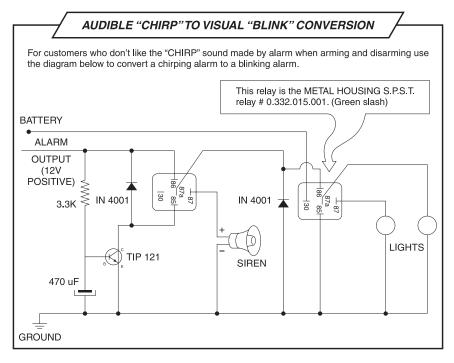


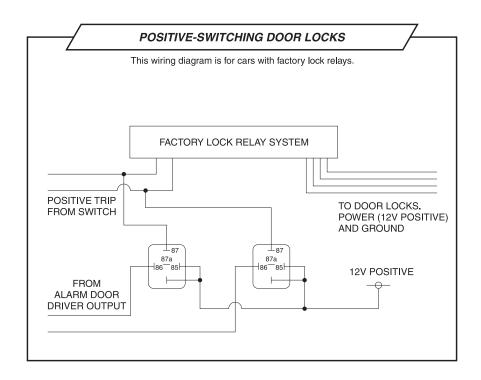


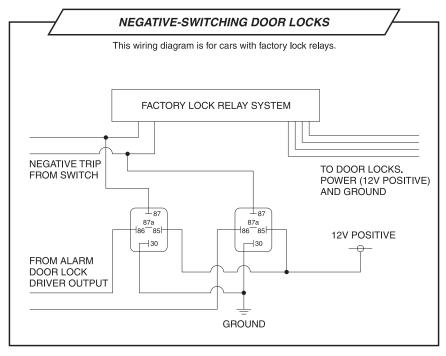


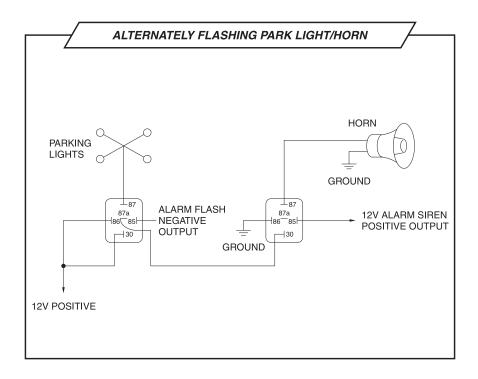


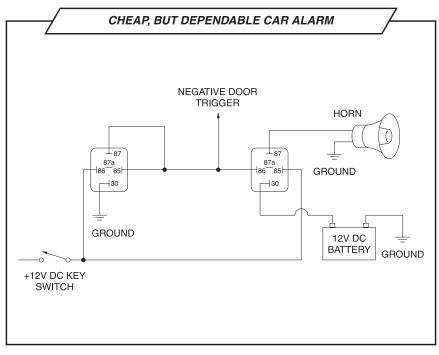


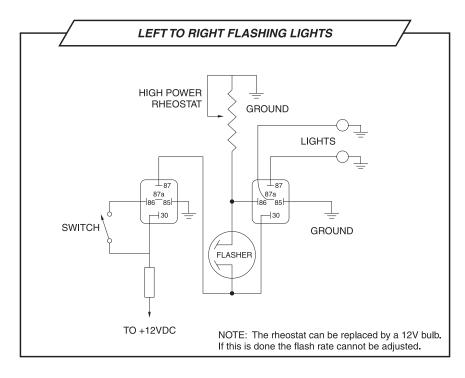


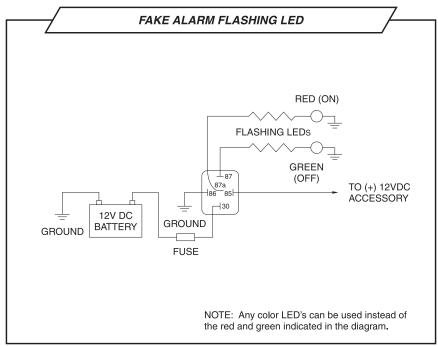


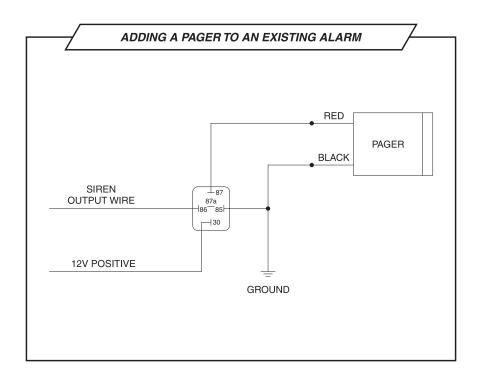


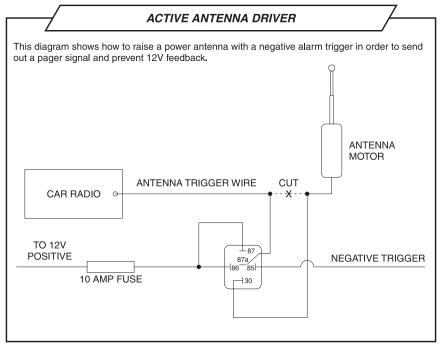












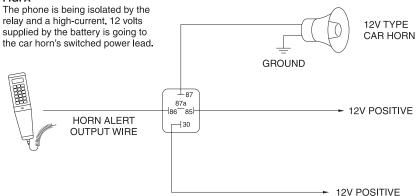
# HORN ALERT FOR CELLULAR PHONES

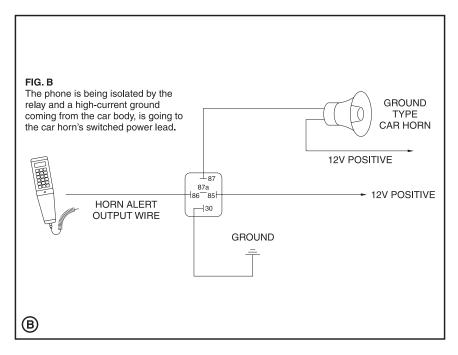
Most cellular phones on the market today have a horn alert option. When wired-up to a car's horn, the horn alert will sound the horn when a call is received. (The "ring" key on the phone must be in the OFF position so that the phone "knows" you are out of the car.)

NOTE: The phone alert wire supplies a low-current ground that must be isolated and sometimes converted, depending on the style of the car horn.

# FIG. A

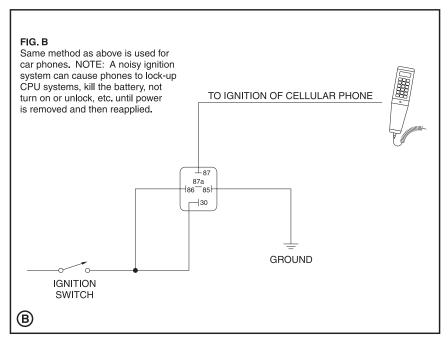
(A)





# IGNITION BYPASS TO ELIMINATE NOISE On some import or older model cars, the vehicle's ignition or charging system can cause noise to be picked-up by high end audio systems or cellular phones. To eliminate this noise, use the following two diagrams. FIG. A When ignition is on, the relay is dosed and the stereo/amp system TO AMP OR STEREO IGNITION LEAD is supplied a clean 12V from the battery. When ignition is off, the relay opens and the stereo system shuts off. 87a 86<sup>-</sup>85 IGNITION SWITCH **GROUND** 12V POSITIVE FROM BATTERY

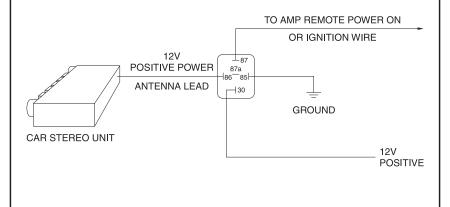
(A)



## AMP SYSTEM REMOTE POWER SWITCH

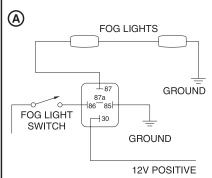
The diagram below displays a remote turn-on system. When the radio is turned ON, the relay is triggered. When the radio is turned OFF, the system shuts down.

When the radio is on, the relay closes, and the AMP or E.Q. system turn-on wires receive 12V power, then the system turns on.



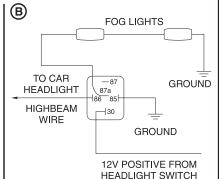
# BASIC FOG LIGHT SWITCH SYSTEMS

The two diagrams below show how to control and isolate low-current switches to high-current fog lights.



# FIG. A

A dash switch is closed, triggering the relay to close and fog lights to turn on with high-current power from the battery.



## FIG. B

Relay is connected to high beam of car lights so when high beams are on, fog lights are off. When low beams are on, fog lights also turn on. When all headlights are off, fog lights shut off.

NOTE: Fog lights will turn on with headlights but will shut off when high beams are used.

