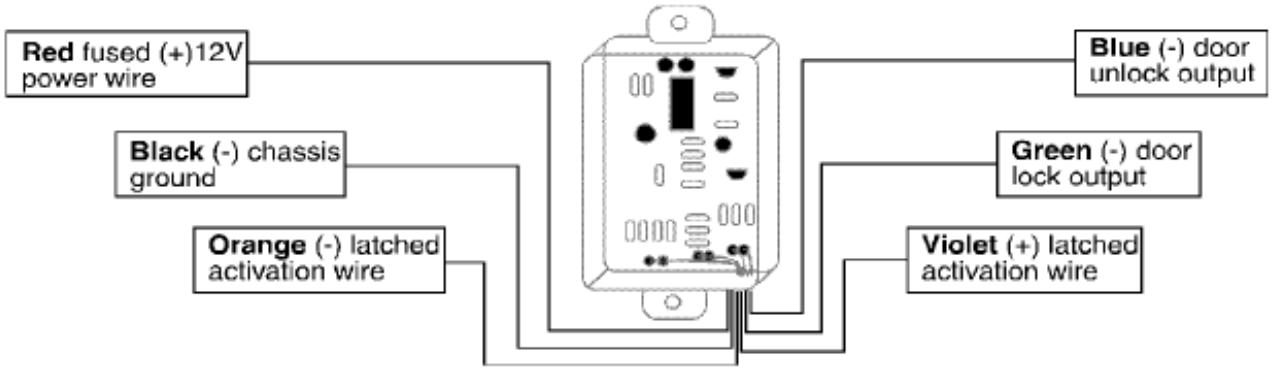
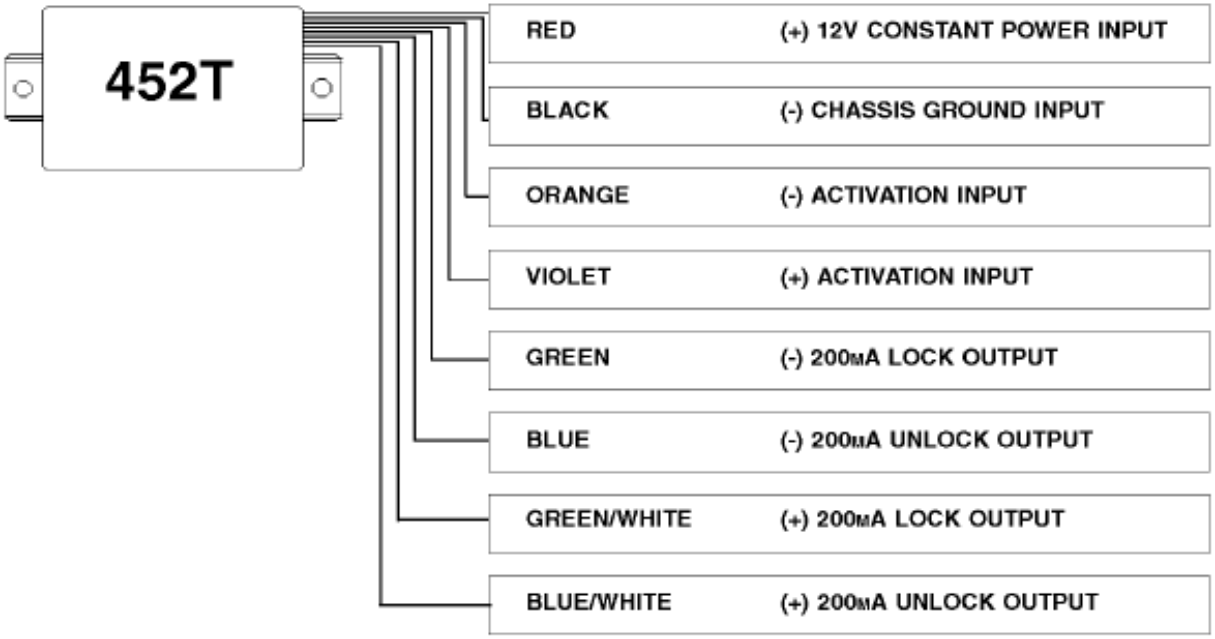
452T DOORLOCK PULSE GENERATOR

The 452T is a latched door lock converter that will convert a latched signal input to a pulsed negative (-) output for normal door lock circuits. This unit will operate from either a latched negative (-) signal or a latched positive(+) signal. (NOTE you can not use both the positive and negative latched signal inputs at the same time).

Connect the Red wire to a fused 12 volt power source. The **Black** wire connects to a (-) chassis ground, and the **Blue** and **Green** wires are the door lock and unlock output wires that connect to the car or a 451T power door lock module. The **Orange** wire is the (-) input latched activation wire, this connects to a wire that shows ground when armed and removes ground when disarmed. The **Violet** wire is the (+) input latched activation wire, this connects to a wire that shows (+) 12 volts when armed and removes (+) 12 volts when disarmed.



The 452T is a versatile unit that can meet several unique installation needs. If used as a door lock pulse generator, it can convert a positive or negative latching input to door lock and unlock pulses. The 452T can provide either 200mA (-) or 200mA (+) pulses for door locks. This makes it possible to control any relay driven factory lock system with no additional parts. Common applications include: adding doorlocks to a unit that has a ground-when-armed output, or generating pulses for ignition controlled door locks.
The 452T can also generate two separate pulses from a single pulse input. Some newer vehicles require two pulses to unlock the doors such as: 1995 and newer Nissan Maxima, 1994 and newer Infiniti Q45, and 1995 and newer Volkswagen Jetta III, Golf III and Passat.



WIRE CONNECTION GUIDE

RED (+) 12V constant power input: Connect this wire to a fused source of constant (+) 12V.

BLACK (-) chassis ground input: Connect this wire to a paint free surface on the vehicle chassis.

ORANGE (-) activation input: If 452T is being used to generate lock and unlock pulses, connect this wire to the ground-when armed output of the security system. If the 452T is being used to create a double (-) pulse, connect the ORANGE wire to the (-) unlock output from the security system.

VIOLET (+) activation input: If 452T is being used to generate lock and unlock pulses, to be used for ignition controlled door locks, connect this wire to a source of (+) 12V switched ignition in the vehicle. If the 452T is being used to create a double (+) pulse, connect the VIOLET wire to the (+) unlock output from the security system.

NOTE: The ORANGE and VIOLET inputs can not be used at the same time. Damage to the module will result.

WIRE CONNECTION GUIDE (CONT.)

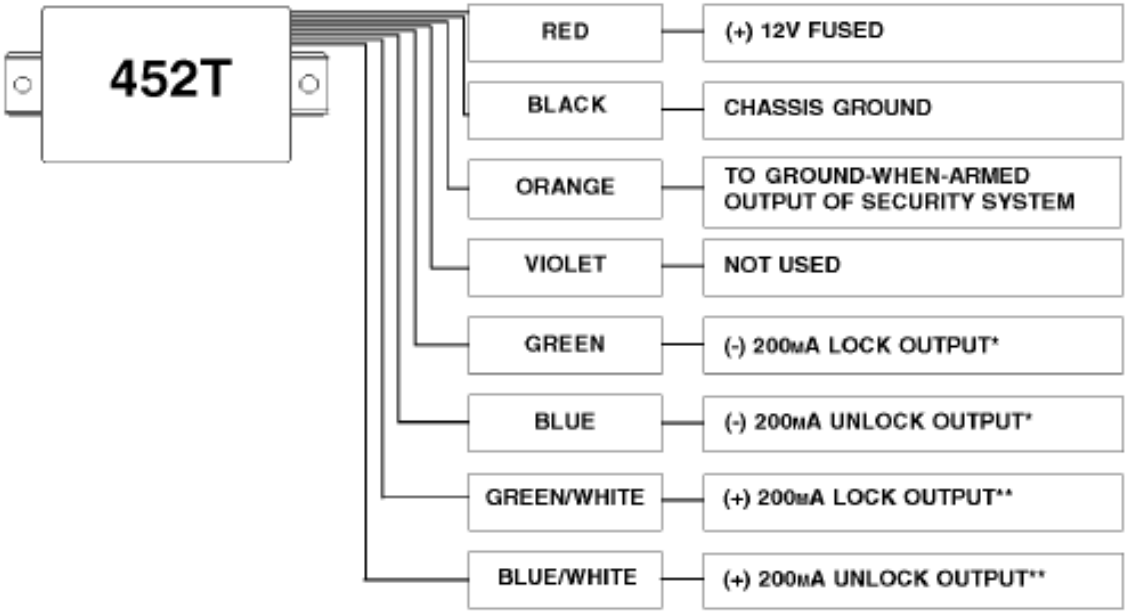
GREEN (-) 200mA lock output: The GREEN wire supplies a 0.8 second output whenever the ORANGE or VIOLET activation wires receive input. This happens when any length input is supplied to the ORANGE or VIOLET. The input can be a latch such as ground-when-armed, or a pulse such as a lock or unlock pulse.

BLUE (-) 200mA unlock output: The BLUE wire supplies a 0.8 second output whenever the ORANGE or VIOLET activation wires stop receiving input.

GREEN/WHITE (+) 200mA lock output: This wire behaves exactly like the GREEN wire, except for the polarity of the output. The output is not designed to drive high current loads and will be damaged if connected directly to a motor.

BLUE/WHITE (+) 200mA unlock output: This wire behaves exactly like the BLUE wire, except for the polarity of the output. The output is not designed to drive high current loads and will be damaged if connected directly to a motor.

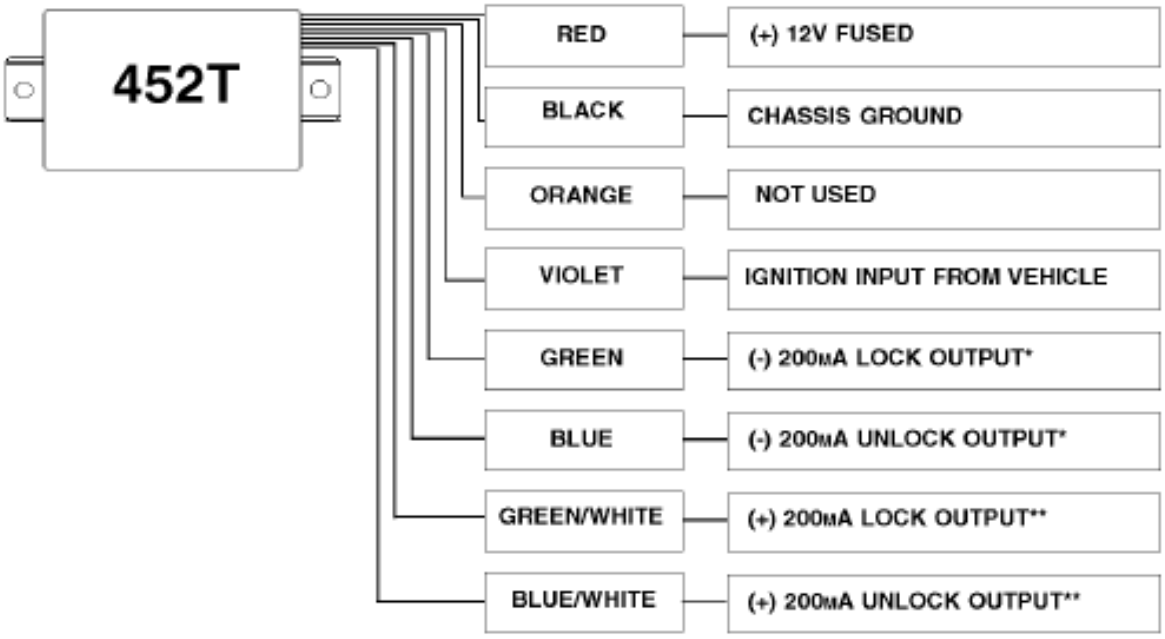
Generating Lock/Unlock Pulses From a Ground-When-Armed Input



*Use these outputs if the vehicle has (-) triggered locks of if adding separate relays

**Use these outputs if the vehicle has a (+) triggered lock system using relays. Do not connect directly to motors.

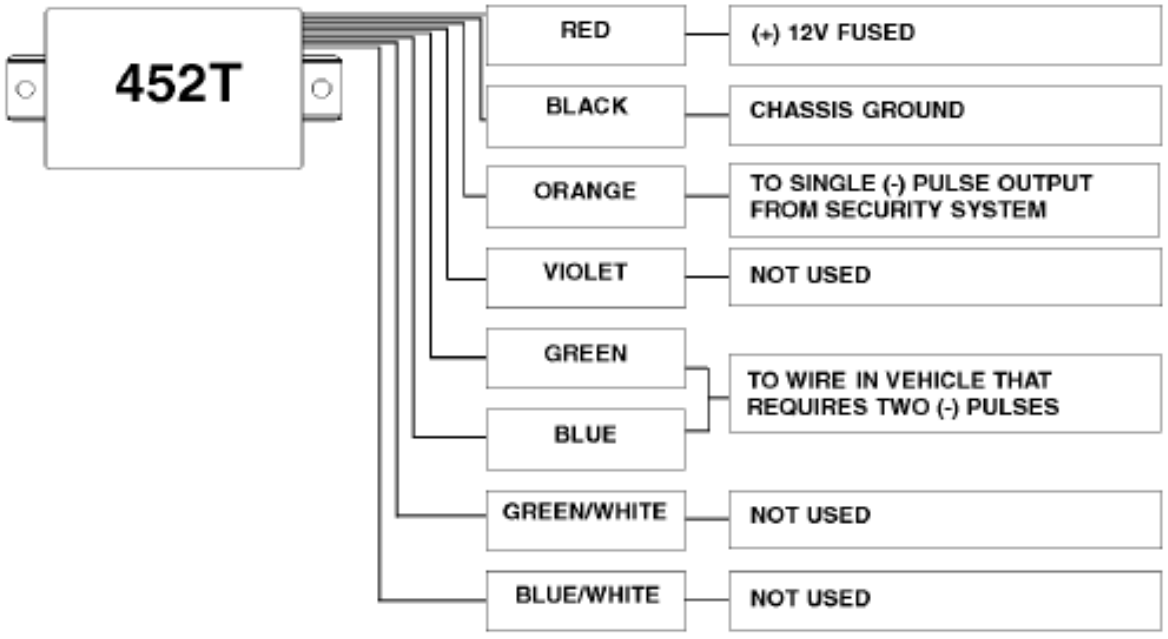
Generating Lock/Unlock Pulses From an Ignition Input



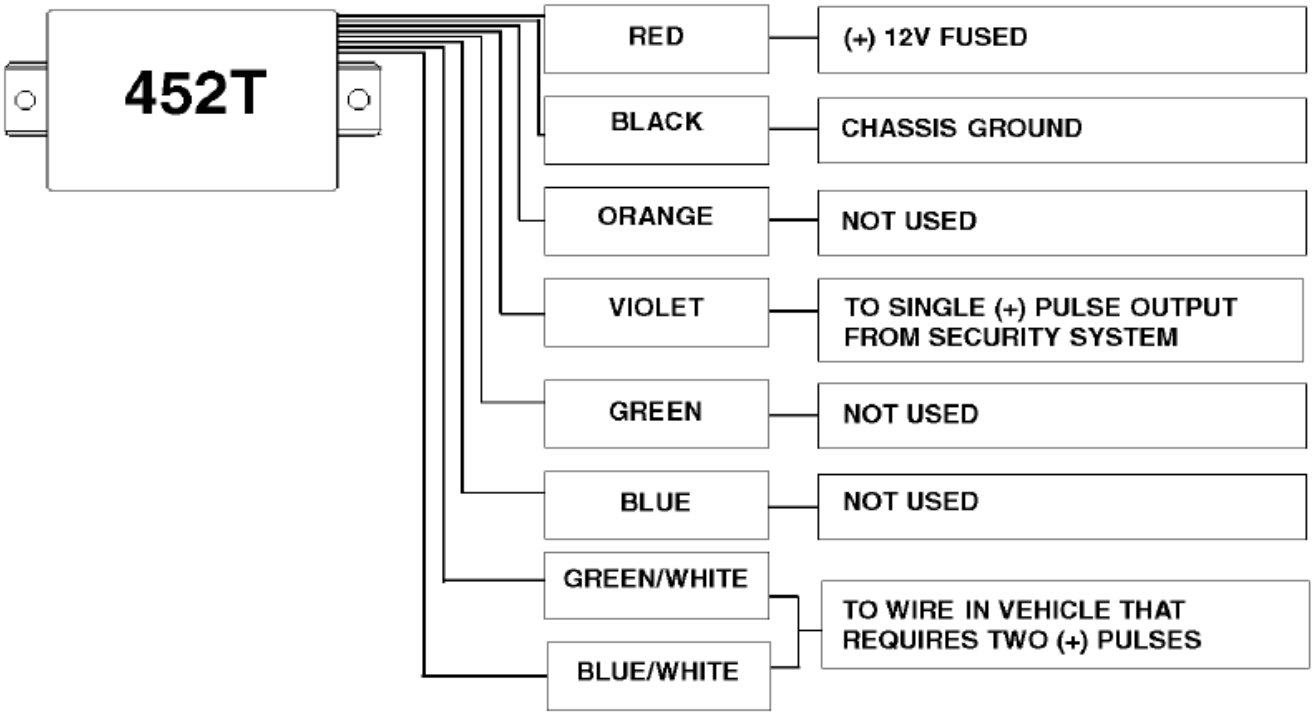
*Use these outputs if the vehicle has (-) triggered locks of if adding separate relays

**Use these outputs if the vehicle has a (+) triggered lock system using relays. Do not connect directly to motors.

Generating Two (-) Pulses From Single (-) Input Pulse



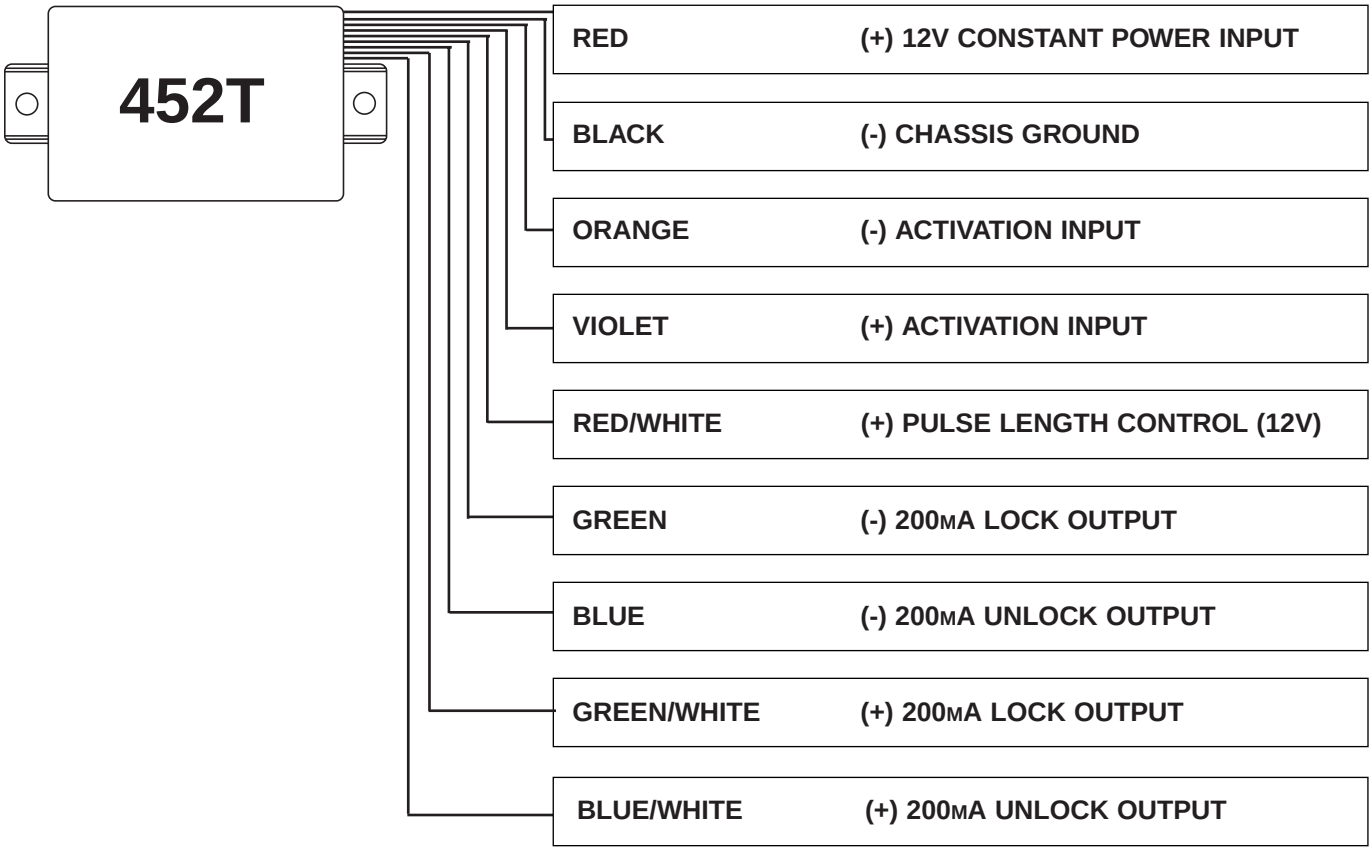
Generating Two (+) Pulses From Single (+) Input Pulse



452T Door Lock Pulse/Double Pulse Generator

The 452T is a versatile unit that can meet door lock and other unique installation needs. It can be used as a door lock pulse generator to convert a positive or negative latching input to door lock and unlock pulses. The 452T can provide either 200mA (-) or 200mA (+) pulses for door locks, making it possible to control any relay driven factory lock system without any additional parts. Common applications include adding door locks to a unit that has a ground-when-armed output, or generating pulses for ignition controlled door locks.

The 452T can also generate two separate pulses from a single pulse input. Some newer vehicles require two pulses to unlock the doors such as: newer Nissan vehicles, Infiniti vehicles, and Volkswagen vehicles.



WIRE CONNECTION GUIDE

RED (+) 12V constant power input: Connect this wire to a **fused** source of constant (+) 12V.

BLACK (-) chassis ground: Connect this wire to a paint free surface on the vehicle chassis.

ORANGE (-) activation input: If the 452T is being used to generate lock and unlock pulses, connect this wire to the ground-when-armed output of the security system. If the 452T is being used to create a double (-) pulse, connect the ORANGE wire to the (-) unlock output from the security system.

VIOLET (+) activation input: If the 452T is being used to generate lock and unlock pulses for ignition controlled door locks, connect this wire to a source of (+) 12V switched ignition in the vehicle. If the 452T is being used to create a double (+) pulse, connect the VIOLET wire to the (+) unlock output from the security system.

IMPORTANT: The ORANGE and VIOLET inputs cannot be used at the same time. Damage to the module will result.

WIRE CONNECTION GUIDE, CONTINUED

RED/WHITE (+) pulse length control: When this wire is NOT connected, the outputs have a pulse duration of 0.8 seconds. The 0.8 second pulses will control most po wer door lock systems. To decrease the dur ation of the output pulses to 0.25 seconds, connect this wire to constant (+) 12V. This shorter output pulse can be used to disarm the factory security system in certain vehicles, such as the Chr ysler minivan. This shorter pulse dur ation allows the factory alarm system to be disarmed without unlocking the doors in remote start applications. This will affect the output of both the (-) output wires, BLUE and GREEN, and also the (+) output wires , BLUE/WHITE and GREEN/WHITE.

GREEN (-) 200mA first (lock) output: The GREEN wire supplies a 0.8 second pulse output whenever the ORANGE or VIOLET activation wires receive input. This happens when an input of any duration is supplied to the ORANGE or VIOLET. The input can be a latch such as g round-when-armed or a pulse, such as a lock or unlock pulse.

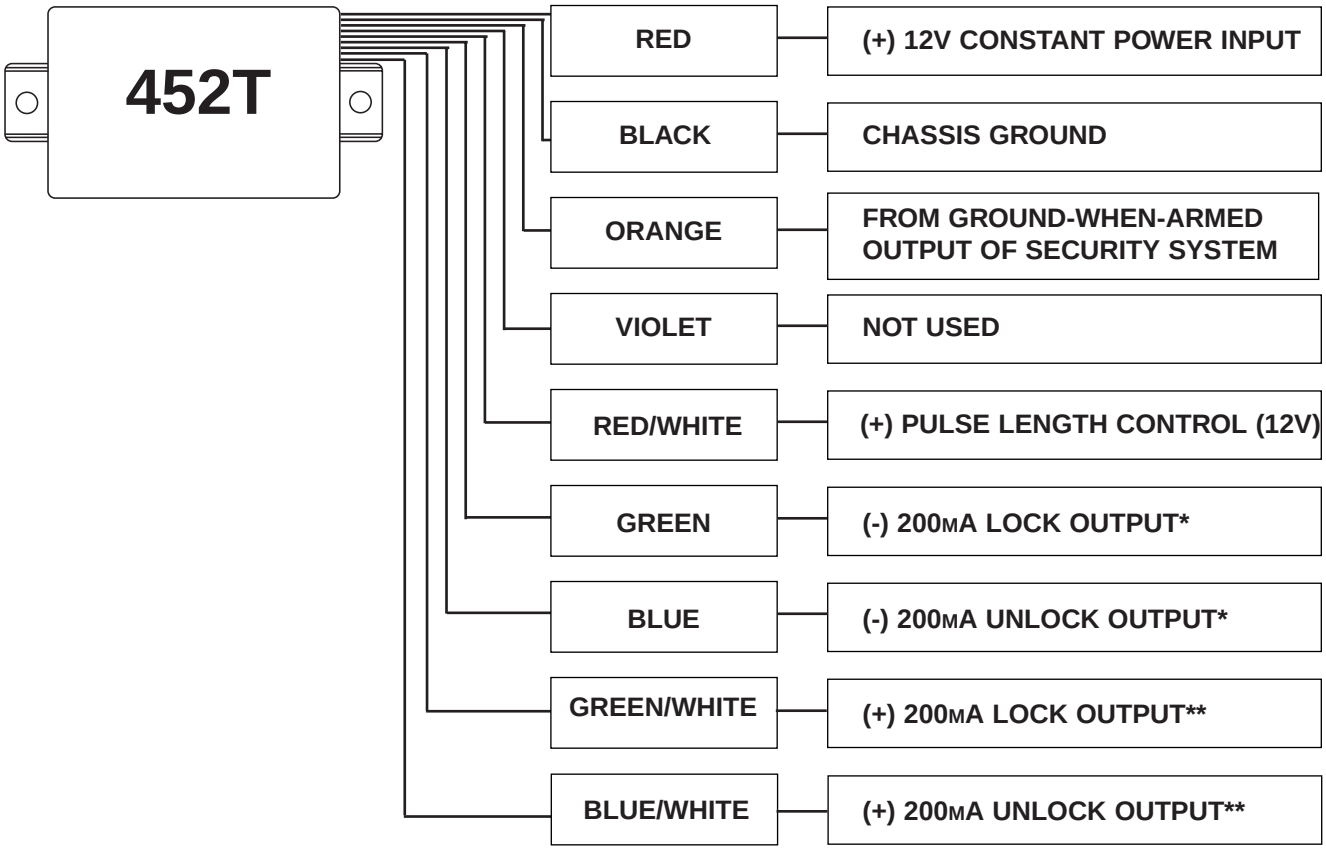
BLUE (-) 200mA second (unlock) output: The BLUE wire supplies a 0.8 second pulse output whene ver the ORANGE or VIOLET activation wires stop receiving input.

GREEN/WHITE (+) 200mA first (lock) output: This wire behaves exactly like the GREEN wire, except for the polarity of the output.

BLUE/WHITE (+) 200mA second (unlock) output: This wire behaves exactly like the BLUE wire, except for the polarity of the output.

IMPORTANT: The GREEN, BLUE, GREEN/WHITE, and BLUE/WHITE outputs are not designed to dr ive high current loads. Do **NOT** connect directly to a motor. Damage to the module will occur.

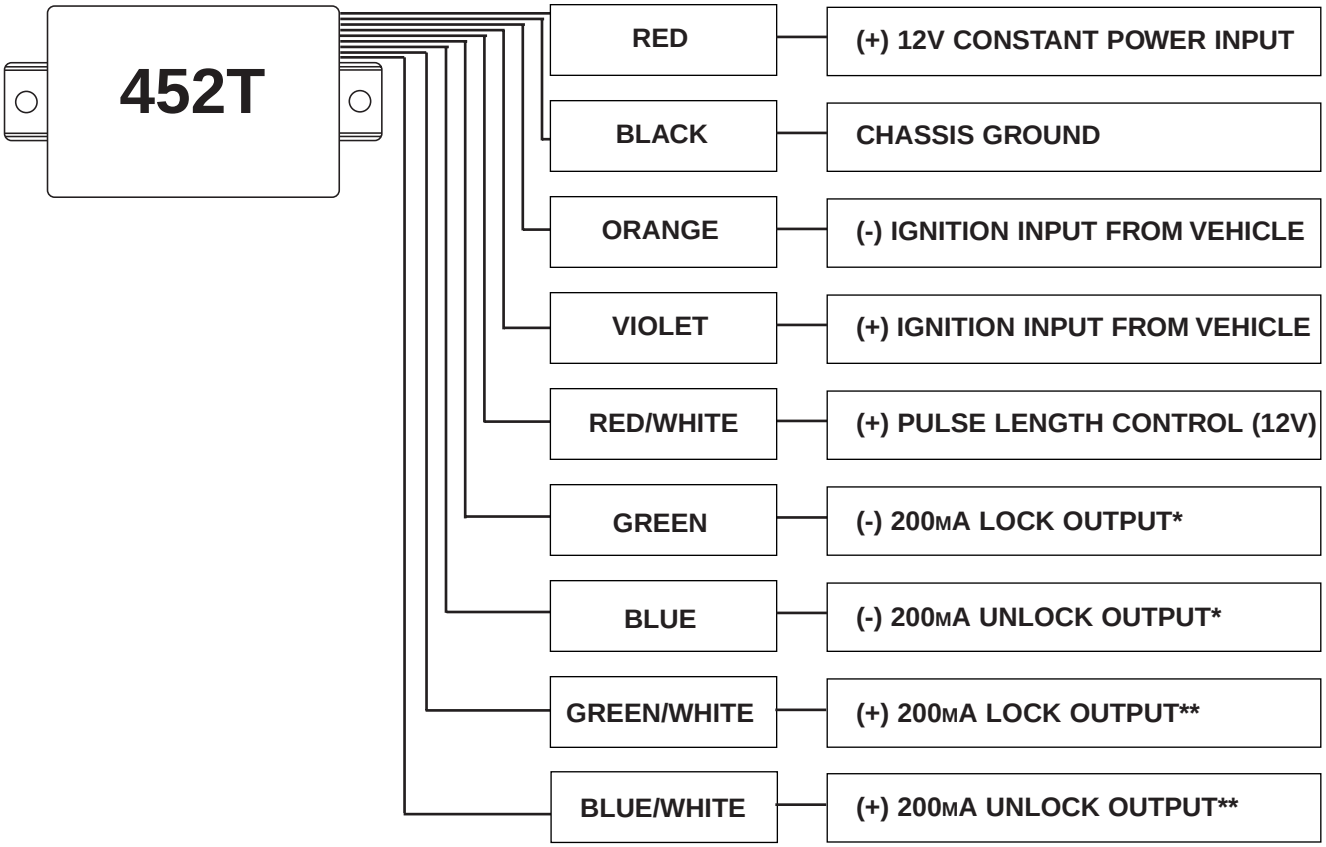
Generating Lock/Unlock Pulses From a Ground-When-Armed Input



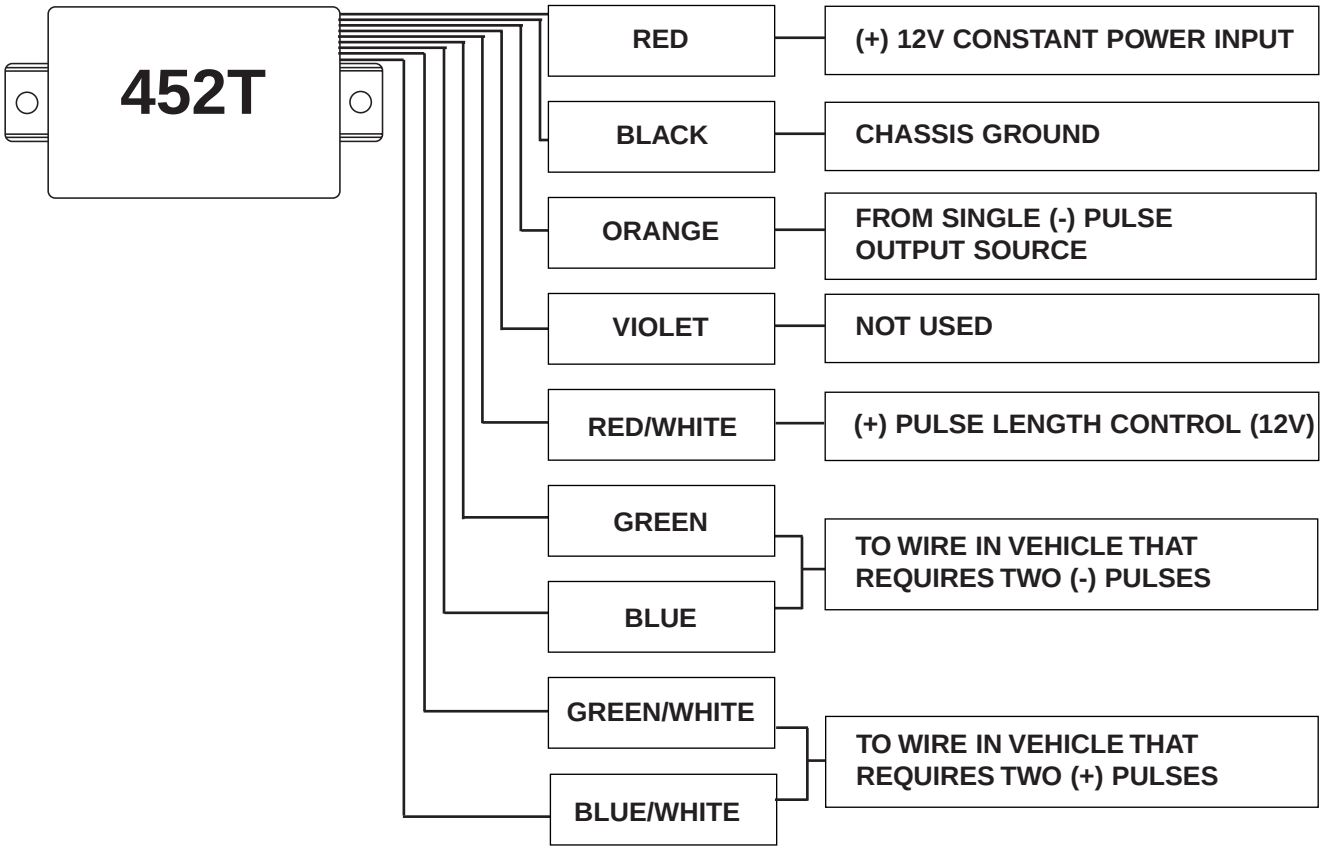
***** Use these outputs if the vehicle has (-) triggered door lock relays or if adding separate relays

****** Use these outputs if the vehicle has a (+) triggered door lock relay or if adding separate relays.

Generating Lock/Unlock Pulses From Ignition Controlled Door Lock System



Generating Two (-) or (+) Pulses From a Single (-) Input Pulse



Generating Two (-) or (+) Pulses From a Single (+) Input Pulse