

Watson's

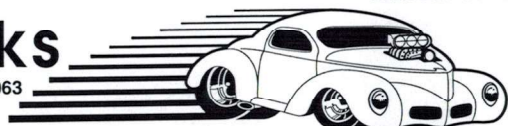
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DRIVE IT !



Thank you for buying a StreetWorks product. Be confident that it will provide the quality and performance that you demand for your car. **Please read and understand all installation instructions before beginning.** Planning and preparation will make the installation process easy and quick.

Safety Notes: Our *Quadra™* unit has an optional ignition controlled by-pass. That is, when the ignition is ON the remote will not operate ANY of the 4-channels. This guarantees that in case of RF interference or accidental

operation of the transmitter(s) the doors will not open while the vehicle is moving. Plan ahead and design your system to have a mechanical backup in case of power failure or transmitter loss. It is a good idea to mount an external switch on the vehicle to allow entrance in case of lost transmitter or leaving the keys in the vehicle (lead wire provided). Installation of remote jumper leads on the battery and/or a backup means of getting into the vehicle in case of power failure is *strongly advised*. Plan ahead for the "unexpected". StreetWorks has many products to help.

Functions: StreetWorks *Quadra™* is a 4-channel output remote control. In a typical application, Channel #1 opens the driver door (triggers an actuator or solenoid sold separately), Channel #2 opens the passenger door and Channels #3 and #4 may be used for a variety of other functions such as: (1) power window up/down, (2) power windows down only, power trunk raise/lower, power trunk release. There are many possible combinations. See our diagrams for examples. ALL channels outputs are momentary - ON while you hold the transmitter button.

NOTE THIS GREAT NEW FEATURE - Channels #1 & #2 can also be used for things like: driver window down + passenger window down -OR- driver window up/down -OR- door(s) lock/unlock -OR- power trunk up/down, etc. See our instruction page 4 and 5 for details. Plan ahead for best feature combination.

Module: NOTE - **Do not plug in the receiver module (white plug) until all other wiring is complete!** This includes hot and ground connections. The receiver module provides negative (grounding) outputs for Channels #3 -and #4 to trigger the 40 amp relay(s). Channels #1 and #2 go through internal relays and provide +12 vdc, 30 amp output for door latch release or other functions as described later. The receiver module should be mounted inside the vehicle in a dry location. The black wire coming directly out of the receiver module box is the antenna - **DO NOT GROUND THE ANTENNA.** All electrical hookups to the module are made through the multi-wire white plastic plug. Disconnect this white plastic plug *first* if disconnecting vehicle power, doing welding on the vehicle, etc. Any of these errors may cause the unit to become deprogrammed (the transmitters and the receiver will be unable to "talk" to each other.) If this occurs, see the **Programming the Remote** section.

Wiring: Wire all of the Wiring Harness and relays **BEFORE** connecting the white multi-wire plug to the receiver module. Wire as follows and per the diagrams:

White
Multi-wire
Plug

SMALL RED - +12 vdc constant (battery).

BLACK - ground to good chassis ground (this is the **harness wire** not the receiver module antenna)

SMALL YELLOW - +12 vdc ignition controlled. This is an optional safety feature as mentioned above.

GRAY - lead for Channel #1 backup switch (grounding switch not provided). See later instructions for option to use positive trigger input.

GREEN - lead for Channel #2 backup switch (grounding switch not provided). See later instructions for option to use positive trigger input.

SMALL ORANGE - Channel #3 output (negative ground output, 250 mA, switched). RELAY REQUIRED. See diagrams.

SMALL BROWN - Channel #4 output (negative ground output, 250 mA, switched). RELAY REQUIRED. See diagrams.

The *Quadra™* 4-Function Remote Control from StreetWorks

#L-QD4

Quadra - with the most popular features you need:

- 4-Function Remote Control
- 4 SPDT relays, 2 on-board + 2 loose
- Ignition by-pass
- (3) 4-button transmitters included

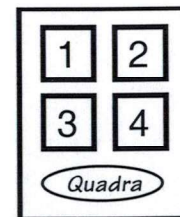
Use to open doors, run power windows, trunk release, power door locks, power trunk lift or trunk release, and more.

Rev 6.10.09

See Instruction page 3, 4 and 5 for connecting the large gauge wiring for Channels #1 and #2.
See Instruction page 6, 7, 8 and 9 for various options for wiring Channels #3 and #4.

Instructions for StreetWorks *Quadra*™ 4-Function Remote Control, Page 2

Rev.
6.10.09



Operation: Your remote control transmitters work / activate the following functions:

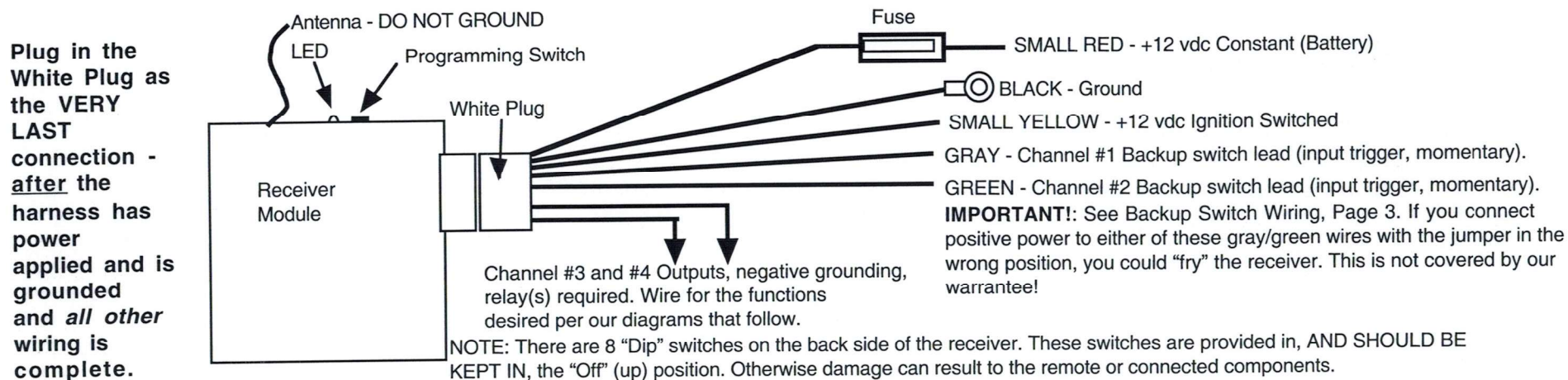
Channel	Button(s)	Function
#1	#1	Channel #1 activation. See pages #3 & #4 for details.
#2	#2	Channel #2 activation. See pages #3 & #4 for details.
#3	#3	- 250 mA (ground) output to Small Orange wire, use for various functions per wiring diagrams, a relay is necessary (provided).
#4	#4	- 250 mA (ground) output to Small Brown wire, use for various functions per wiring diagrams, a relay is necessary (provided).

(NOTE: If any combination of buttons #1 and #2 are pushed 8 or more times in a 30 second period the unit will stop working for 1 minute for protection.)

Programming the Remote: Should your remote control not respond properly, first check all wiring. **If you are going to disconnect anything or make any changes unplug the white receiver plug first and reconnect after all work is done.** If the unit still does not respond properly, reprogram the transmitters to the receiver as follows: 1. Be sure that the ignition is OFF but that the receiver is plugged in and power is ON. 2. Press and release the switch on the side of the receiver unit (next to the LED) three times. The LED indicator beside the button will come on (constant). 3. Press button #1 on one of the transmitters - the LED should blink, then stay on. Then quickly press button #1 on the other transmitter - the LED should blink, then stay on. Then after a few seconds the LED will go off. Test the transmitters for correct operation after the LED has gone off. Up to 4 transmitters can be programmed to operate the remote control.

Limited Warranty Statement - StreetWorks LLC warrants this product to the original purchaser to be free from defects in material and workmanship for a period of one (1) year from the date of purchase. StreetWorks LLC will repair or replace this product free of charge if, in the judgment of StreetWorks LLC, the product has been proven to be defective within the warrantee period. Contact StreetWorks LLC for return authorization and instructions. This warrantee does not cover any expenses incurred in the removal and/or reinstallation of the product and does not apply to any product damaged by improper installation, accident, misuse, abuse, improper line voltage, fire, flood, lightning, or other acts of God, or product that has been altered or repaired by anyone other than StreetWorks LLC. This warranty does not cover transmitter battery replacement. This warranty is in lieu of other warranties either expressed or implied. No person is authorized to assume for StreetWorks LLC any other liability concerning the sale of this product. **Keep this warranty with your invoice.**

Basic Harness Wiring:



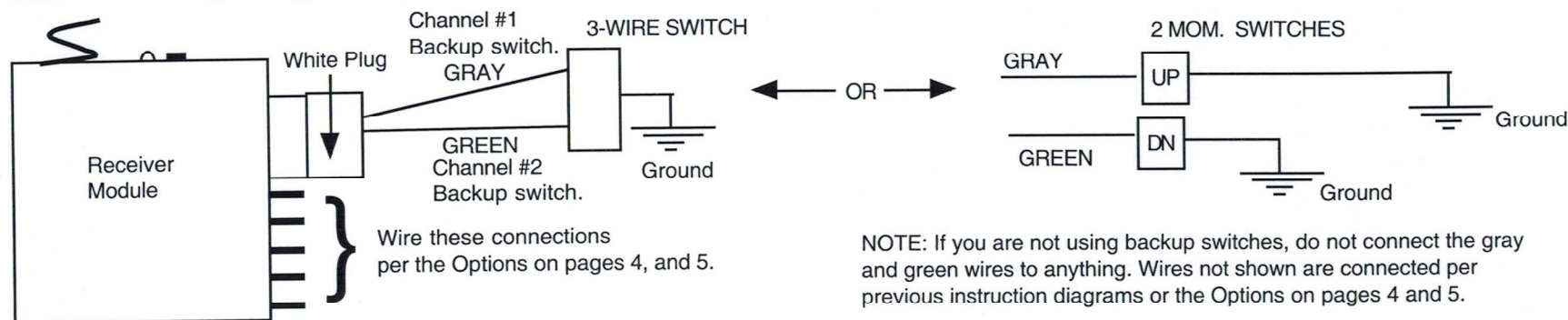
NOTICE: Never perform welding upon or near a vehicle while a remote control is powered! Disconnect the remote receiver from the wiring harness - unplug the white plug - and reconnect after all welding is complete. This should also be done if main power is to be disconnected. Otherwise the unit may be damaged or loose memory and need to be reprogrammed.

Instructions for StreetWorks *Quadra*™ 4-Function Remote Control, Page 3 - Backup Switch Wiring

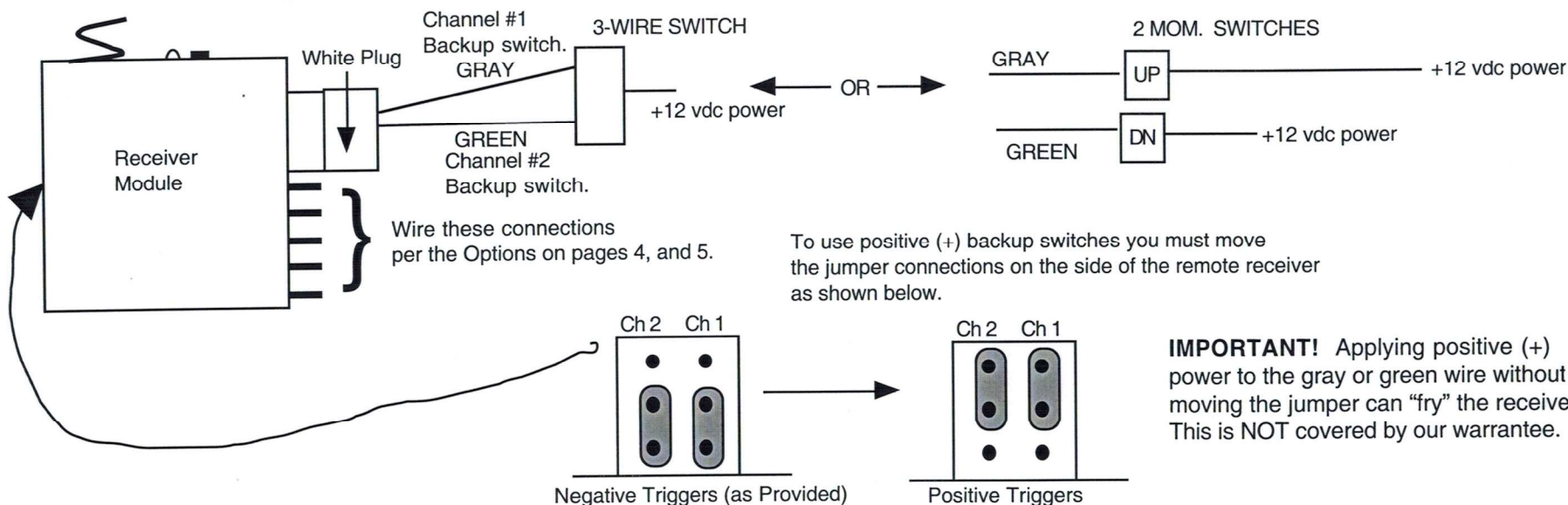
Rev.
6.10.09

Backup Switch Wiring - The gray and green wires in the White Plug are for Channel #1 and Channel #2 backup switches. Typically, these are used for external switches for door latch releases. However you can also install and use backup switches for any of the other functions that this remote can perform. (This is different than using the remote for power windows in conjunction with 5-wire switches - see the various options for this case.) The backup switches should be momentary style switches, and waterproof if used externally. These switches can be separate, individual momentary switches for each wire or they may be a single momentary "3-wire" switch. (For running power windows, a single momentary 3-wire switch may be your inside switch.) If you are not using backup switches, do not connect these wires to anything.

Case A: For negative (grounding) backup switches.



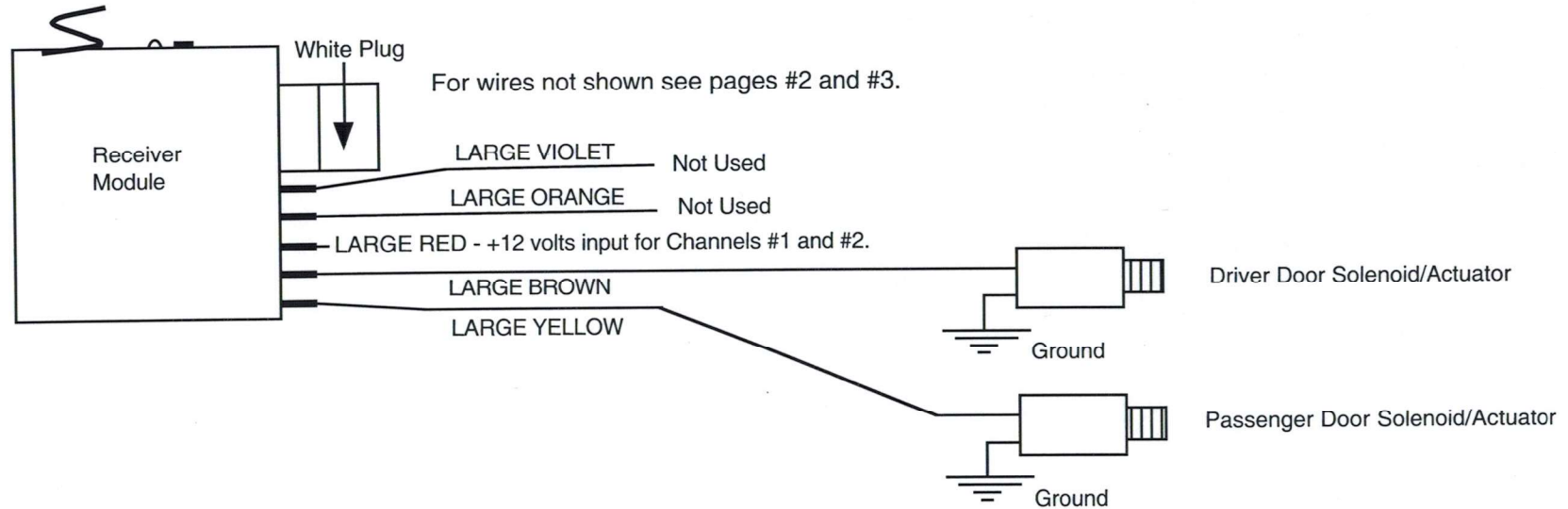
Case B: For positive (+) backup switches.



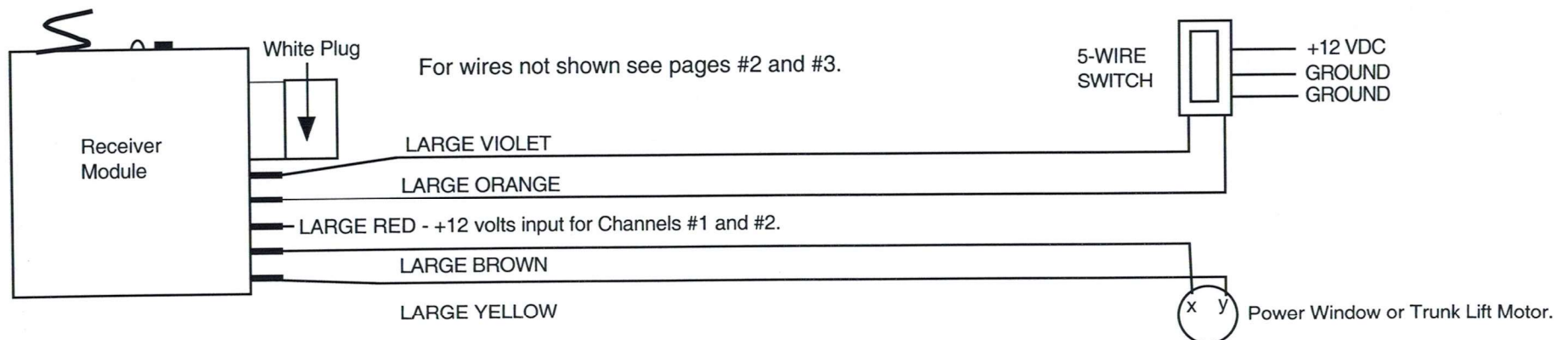
Function Wiring Instructions for Channels #1 and #2 -

One of the new features of our *Quadra* Remote Control is that Channels #1 and #2 can be used for a variety of different functions. Please look at ALL of the Options presented on pages #4, and #5 below so as to choose the one that is correct for you.

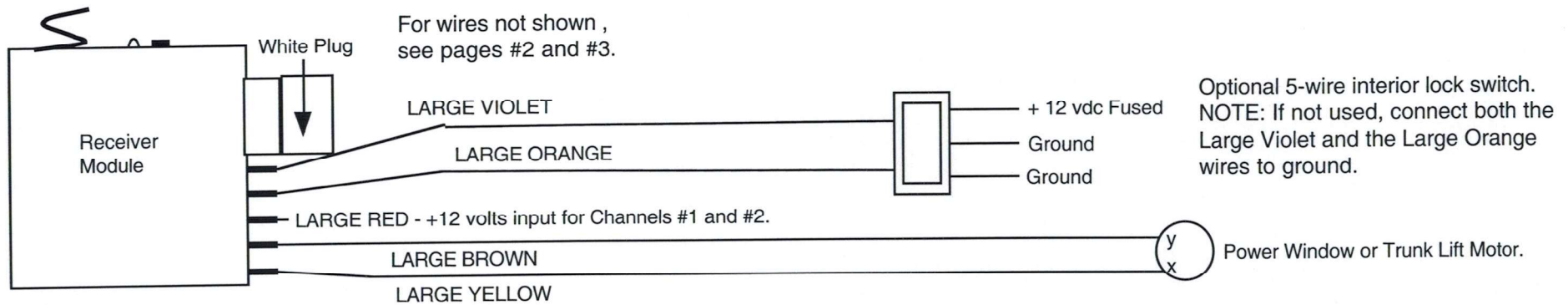
Option 1: For 2-door latch release with either solenoids or actuators.



Option 2: For 1-door power window up/down (or trunk lift up/down) with an interior 5-wire switch.



Option 3: For 1-door power window up/down (or trunk lift up/down) with optional 5-wire interior switch.

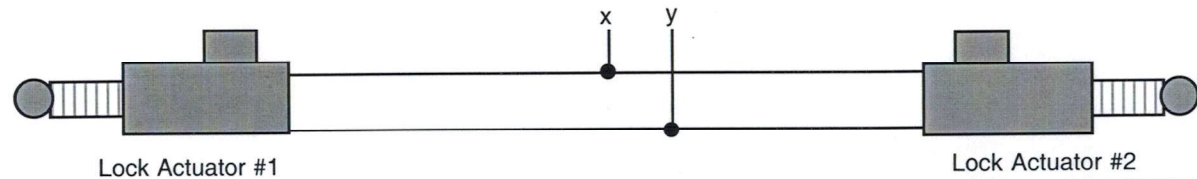


Option 4: For 1-door power window up/down (or trunk lift up/down) with a 3-wire interior switch.

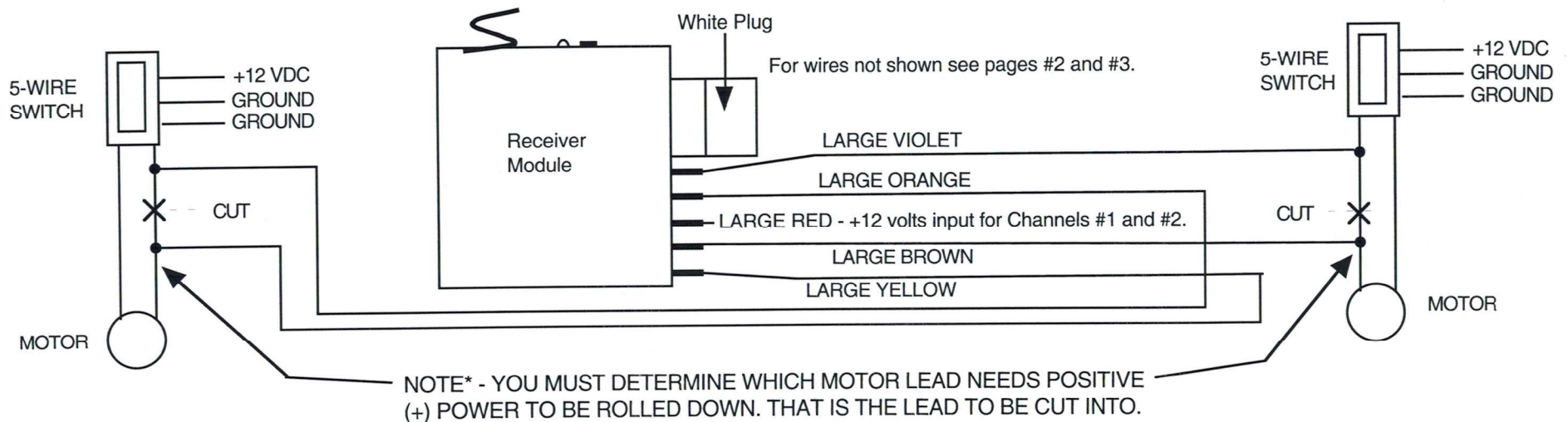
Connect the 3-wire switch per Case A or B on page #3 and the LARGE VIOLET, LARGE ORANGE, LARGE RED, LARGE BROWN and LARGE YELLOW per Option 3, above.

Option 5: For lock/unlock of door lock actuators.

Depending upon the additional switches that you will have, use Option 2, Option 3 or Option 4, above, **EXCEPT** - the two Motor connections "x" and "y" in the above diagrams should be replaced with the following.



Option 6: For 2-door (driver door and passenger door) power window *down only* with 5-wire switches.

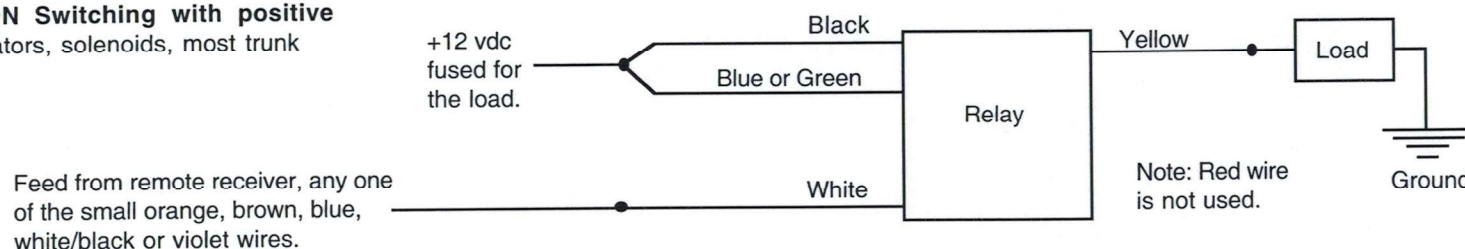


Instructions for StreetWorks *Quadra*™ 4-Function Remote Control, Page 6, Wiring Channels #3-#4

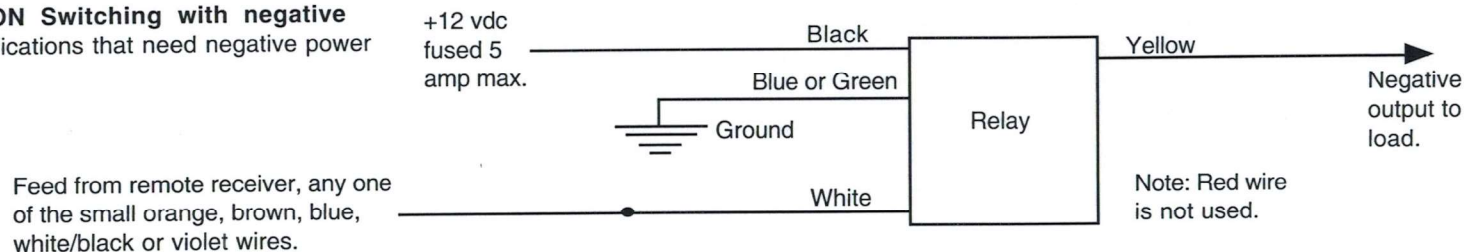
Rev.
6.10.09

Wiring Diagrams for Functions #3 - #4. Many combinations of functions are possible. Be sure to plan before starting to assure that you end up with exactly what you want the first time. Both outputs are momentary - ON only while you hold the transmitter button(s).

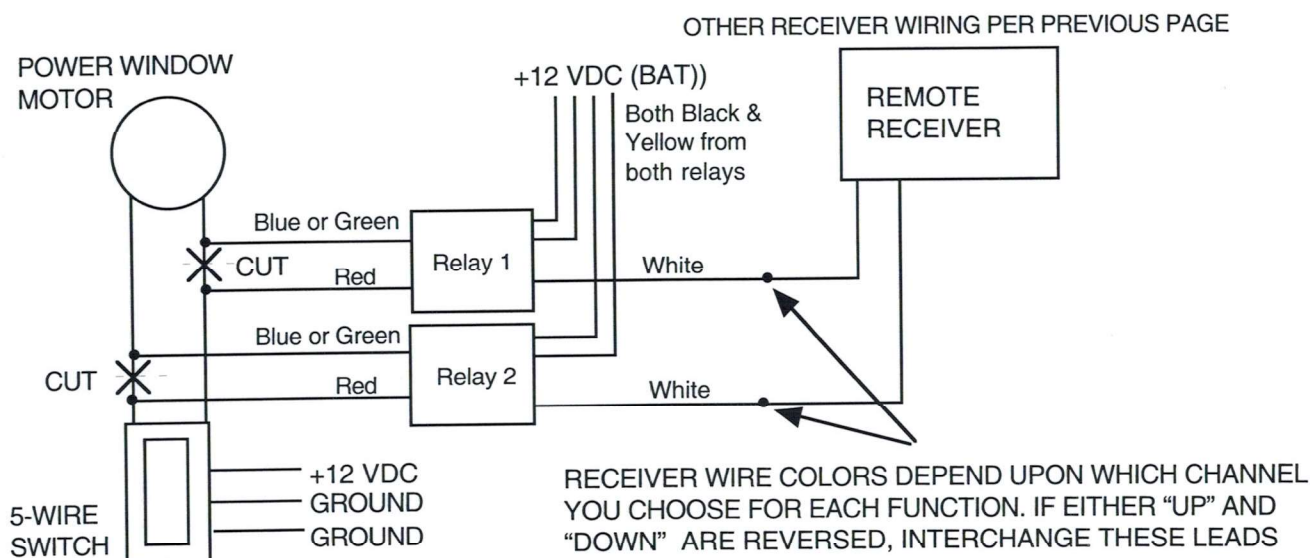
Alternative A1 - MOMENTARY ON Switching with positive +12 vdc output. Use to trigger actuators, solenoids, most trunk releases, etc. (40 amps max.).



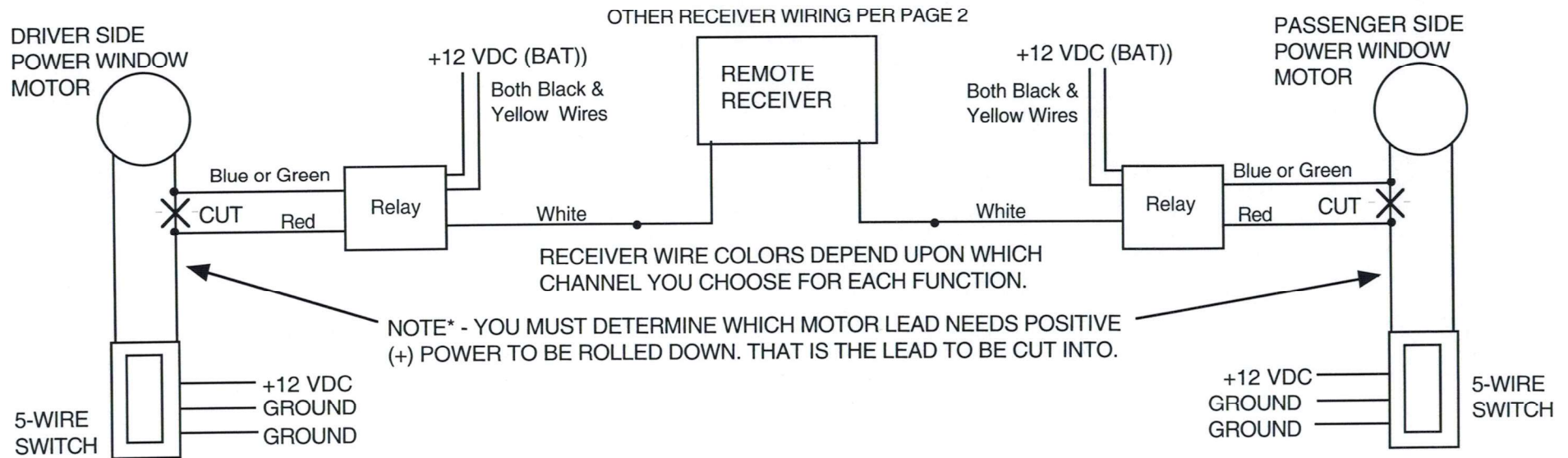
Alternative A2 - MOMENTARY ON Switching with negative -12 vdc output. Use for the few applications that need negative power (40 amps max.).



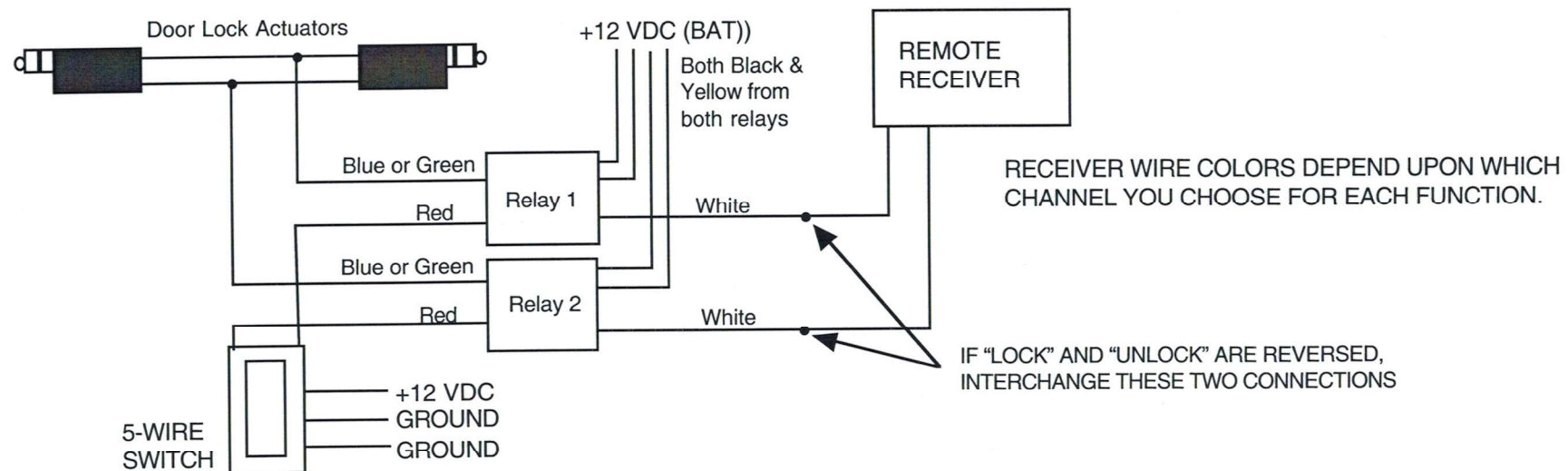
Alternative A3 - Single door Power Window up and down with 5-wire switches.



Alternative A4 - 2 door Power Windows DOWN ONLY with 5-wire switches. For only one door power window down, use only one side of diagram.



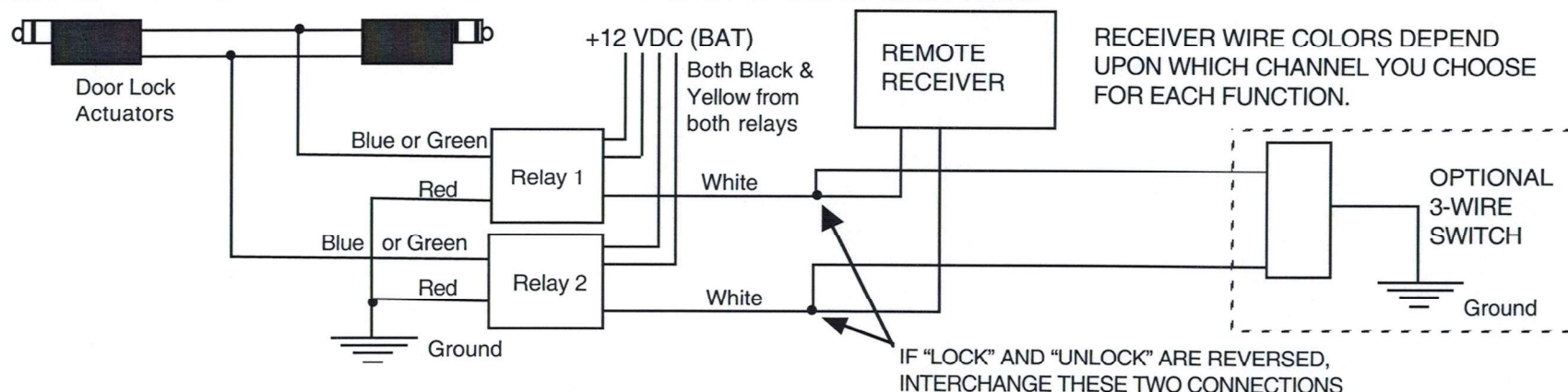
Alternative A5 - For 2 door Power Door Locks with a 5-wire switch.



Instructions for StreetWorks *Quadra*™ 4-Function Remote Control, Page 8, Wiring Channels #3-#4 cont.

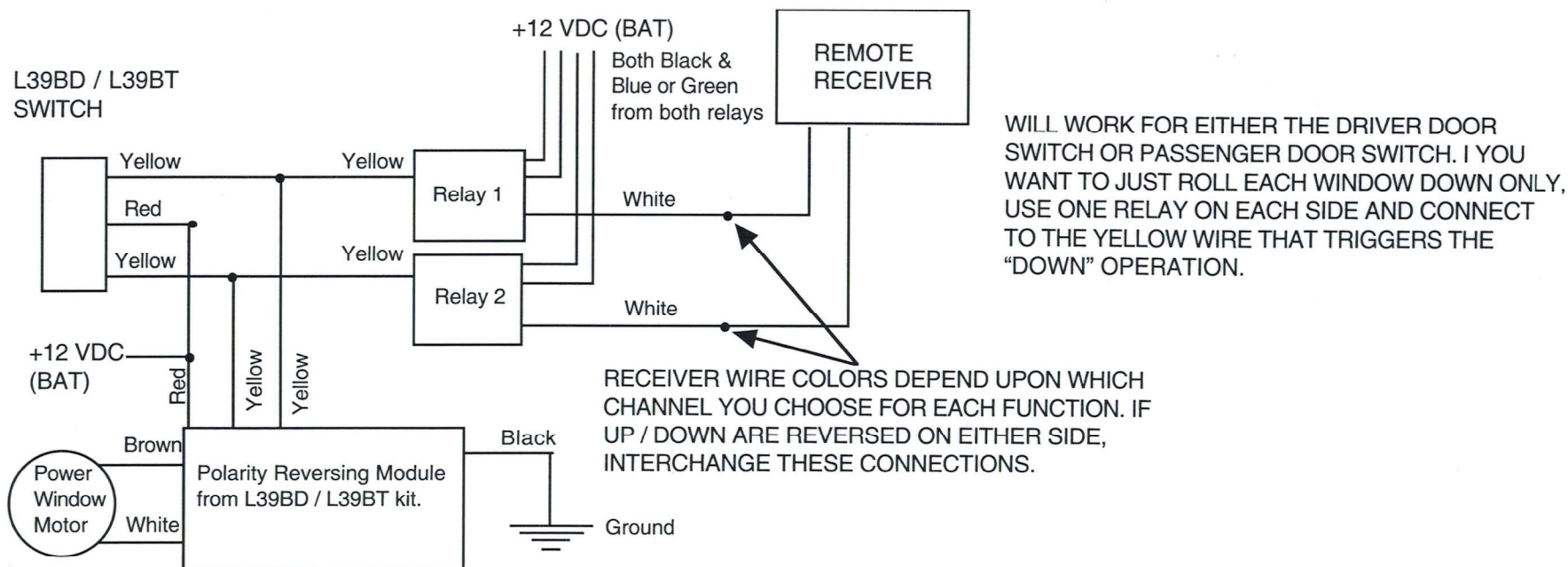
Rev.
6.10.09

Alternative A6 - For 2 door Power Door Locks with a 3-wire switch or with no inside switch.



For positive switching 3-wire switch - Because the remote control outputs for channels #3 - #4 are negative (grounding), in order to use a positive switching 3-wire switch you will have to run each of the two switch outputs through a relay in order to change the positive signal to negative. This can be done by following our wiring instruction "Case B" but connect the White wire to ground and the Black wire to the 3-wire switch positive output. (The Blue or Green - ground and the Yellow wire to the switch connection(s), above.)

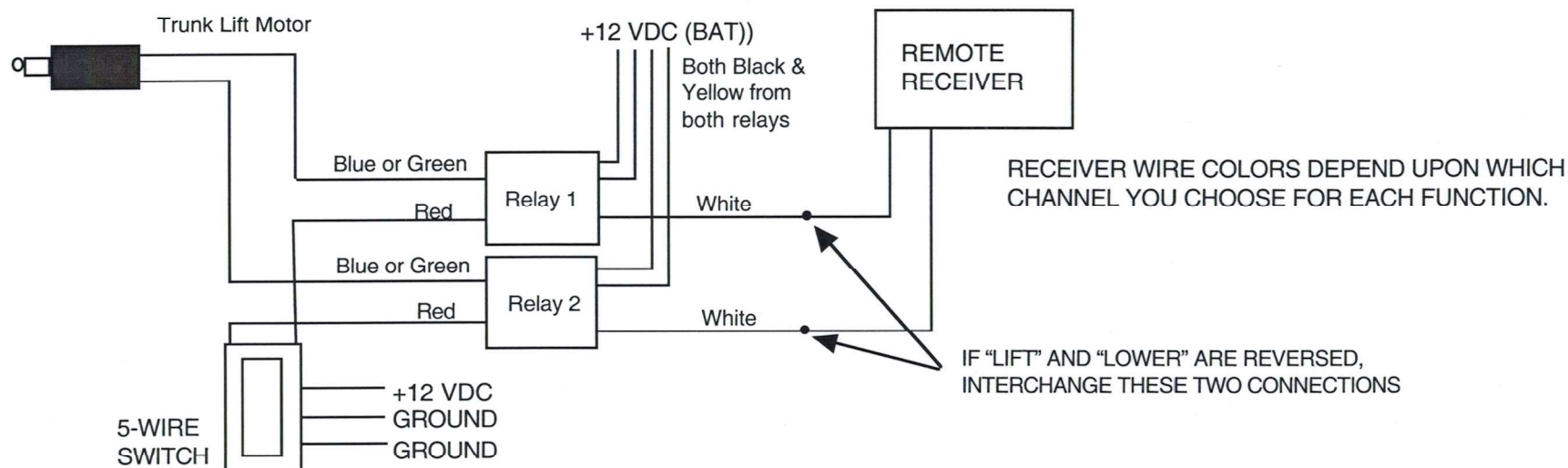
Alternative A7 - For 1 door Power Window used with Watson's StreetWorks L39BOD, L39BOT, L39BCD, L39BD or L39BT Billet Power Window Switches, channels #3 - #4. Use this diagram **instead** of the instructions that came with the switches.



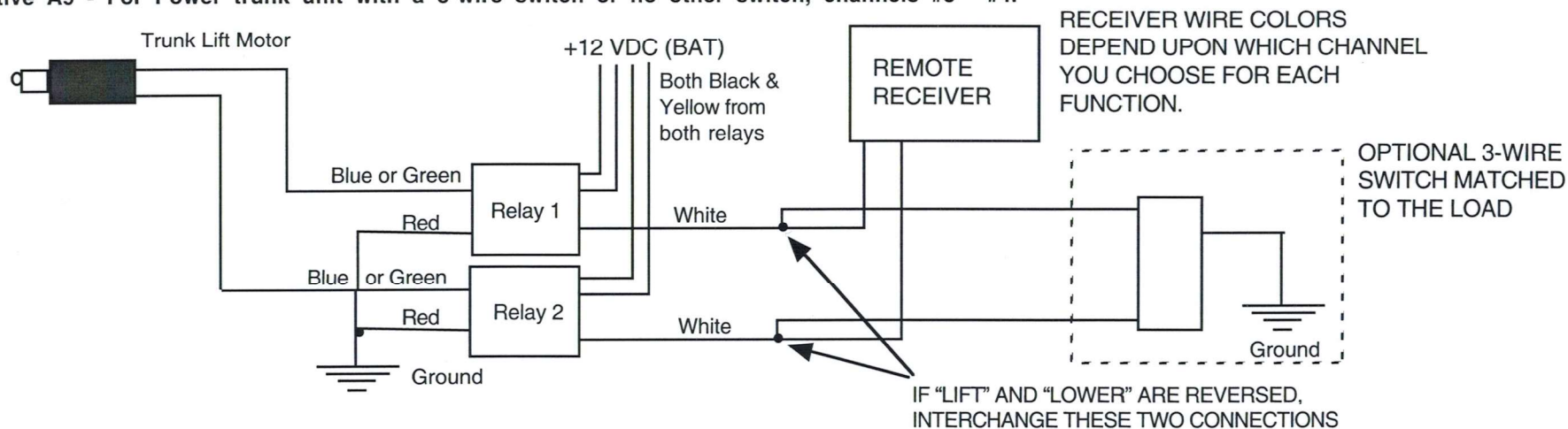
Instructions for StreetWorks *Quadra*™ 4-Function Remote Control, Page 9, Wiring Channels #3-#4 cont.

Rev.
6.10.09

Alternative A8 - For Power trunk unit with a 5-wire switch, channels #3 - #4.



Alternative A9 - For Power trunk unit with a 3-wire switch or no other switch, channels #3 - #4.



Alternative A10 - For Remote Controlled Battery Disconnect, StreetWorks part #L27R.

Select one of the Channels, #3 or #4, to be the Battery Disconnect Channel and wire its relay exactly like "Alternative A1" on page 6 of this instruction. NOTE: The black and blue-or-green relay wires in Alternative A1 must be connected to constant on, +12 vdc Battery power from a disconnect kit bypass wire. The yellow relay wire connects to the #L27 Battery Disconnect 18 ga. blue wire. Then wire the disconnect solenoid per the disconnect kit instructions. Also be aware that the remote control receiver (Small Red wire) must be fed constant on, +12 vdc Battery power from the disconnect kit bypass wire. Channel #1 and #2 outputs can be shut off (disconnected) by having the Large Red feed wire disconnect. Channel outputs #3 - #4 will still have triggering power but the function can be shut off by having the relay power feed for each of those functions fed from a disconnected panel circuit. DO NOT shut off power for the Channel that will run the disconnect.