



Scan for additional information

# GTR197 External Receiver

Compatible with the following Richmond motors.		
Sliding / Cantilever Motors		
GTR156 & GTR212 ✓	GTR061 & GTR207 ✓	
Swing Motors		
GTR099 ✓	GTR058 ✓	GTR062 & GTR078 ✓
GTR500 & GTR501 ✓	GTR502 & GTR503 ✓	
! Compatible with a large range of other manufacturers gate/garage openers.		



**Technical Specs:**

- Power Supply: 9V-35V DC / 8V-26V AC
- Operating Frequency: 433.92 MHz
- IP40 rating. Use a weatherproof enclosure outdoors.
- Current draw: 30mA (standby) 70mA (active)
- Relay output: NO (normally open)
- Pairable remotes: Up to 250
- Operating temperature: -10°C to 50°C
- Material: ABS – Weight 80g
- Dimensions: 80mm x 45mm x 25mm
- Connection Cables: 1 x 2 core (Power) 1 x 5 core (Channels) – 400mm length

**Replace or combine your other gate and garage openers:**

The GTR197 external receiver allows you to pair up to 250 remotes to your Richmond Gate Opener.

It also allows Richmond swing or sliding gate remotes to be used on another manufacturers garage or gate motor. This allows you to operate multiple motors with a single remote and can also be fitted to replace remotes that are no longer available. Can also be fitted to most commercial roller doors with separate Open, Stop and Close functions.

**If you need assistance finding your connection points, or are unsure if your non-Richmond motor is suitable, please contact the team at Richmond Wheel & Castor.**

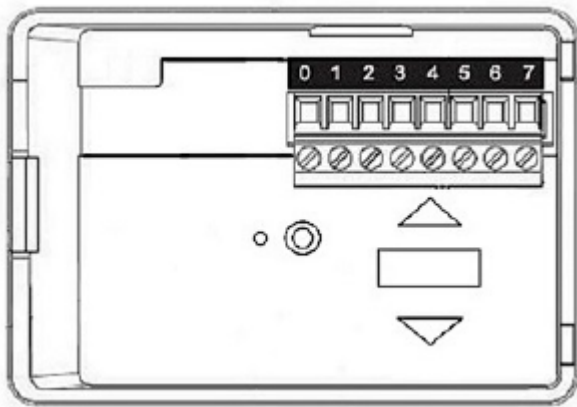
Technical support – Email [gatesupport@richmondau.com](mailto:gatesupport@richmondau.com) or call 03 9070 5713

# Connecting the GTR197 to a non-Richmond Opener

Below is an example of how the GTR197 external receiver will wire into a non-Richmond opener to allow you to use your existing Richmond remote.

- To power the external receiver, you will need a 12-volt or 24-volt AC or DC power supply. In the example below, this is sourced via Terminals 0 and 1
- To operate the gate/garage opener, the external receiver will need to connect into the PC board.
  - Residential openers** - Most will have an input for an external push button. In the example below, terminals 2 & 5 are used for the push button. This will be the input for your external receiver.
  - Commercial openers** - Some may have individual functions for Open, Stop and Close. The wiring example below will support this function. When multiple channels are wired and paired, the remote buttons will perform separate functions.

For the below example, the GTR197 external receiver would be wired as follows:



Gate/Garage Automated Opener Terminals		
Terminal	Function	Description
0	Ground	24volt DC Negative
1	24vDC+	24volt DC Positive
2	O/S/C or Open	Dry Contact (Open/Stop/Close)
3	Stop	Dry Contact (Close)
4	Close	Dry Contact (Stop)
5	COM	Dry Contact Common Terminal
6		Not used
7		Not used

## Connection

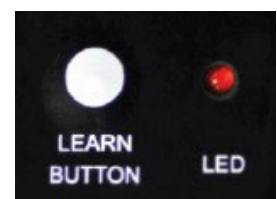
- GTR197 Red + into Terminal 1 (24vDC+)
- GTR197 White GRN into Terminal 0 (24vDC-)
- GTR197 White Chanel 1 into Terminal 2 (O/S/C)
- GTR197 Black COM into Terminal 5 (COM)

## Pairing Remotes to the External Receiver

Step 1 – Press the learn button on the external receiver once. The LED will stay lit. →

Step 2 – Press the preferred button on your remote TWICE. The learn LED will flash 2 – 3 times and then turn off. The remote is now paired.

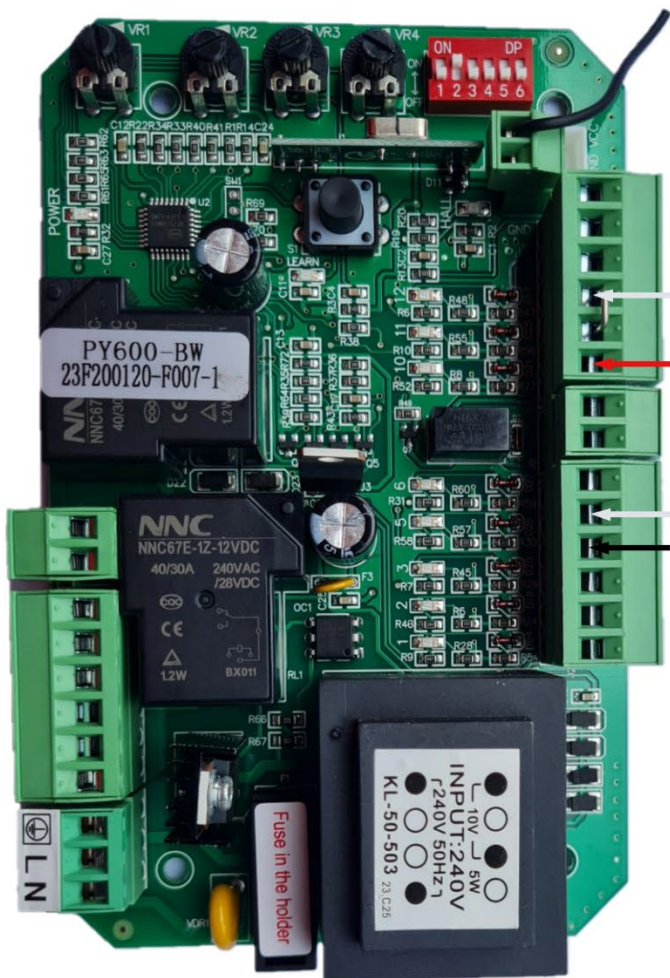
This process can be repeated using the other buttons to pair multiple receivers or motors.



**Once the remote is paired, the channels may assign to an alternate button, especially if a remote is already being used on another motor.**

**If the LED activates but doesn't operate your gate/garage opener... Remove the Channel 1 wire (White). Change to Yellow, Red or Blue wire. Test after each change until the preferred button is able to be used.**

## GTR156 or GTR212 slide motor connection

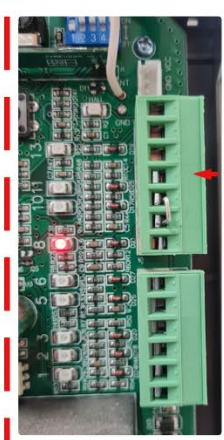


Do not remove jumper pin between terminal 10 & 11. This is only removed if a safety beam/photocell is fitted.

Power Supply Cable  
 Red (9-35VDC+ or 8-26VAC)  
 White (9-35VDC- or 8-26VAC)



<u>GTR197 wire</u>	<u>GTR156/212 terminal</u>
Red (+)	Terminal 9 (+15v)
White (-)	Terminal 11 (GND)
Black (COM)	Terminal 4 (COM)
White (Channel 1)	Terminal 5 (O/S/C)
* Do not remove jumper wire between terminals 10 & 11 *	

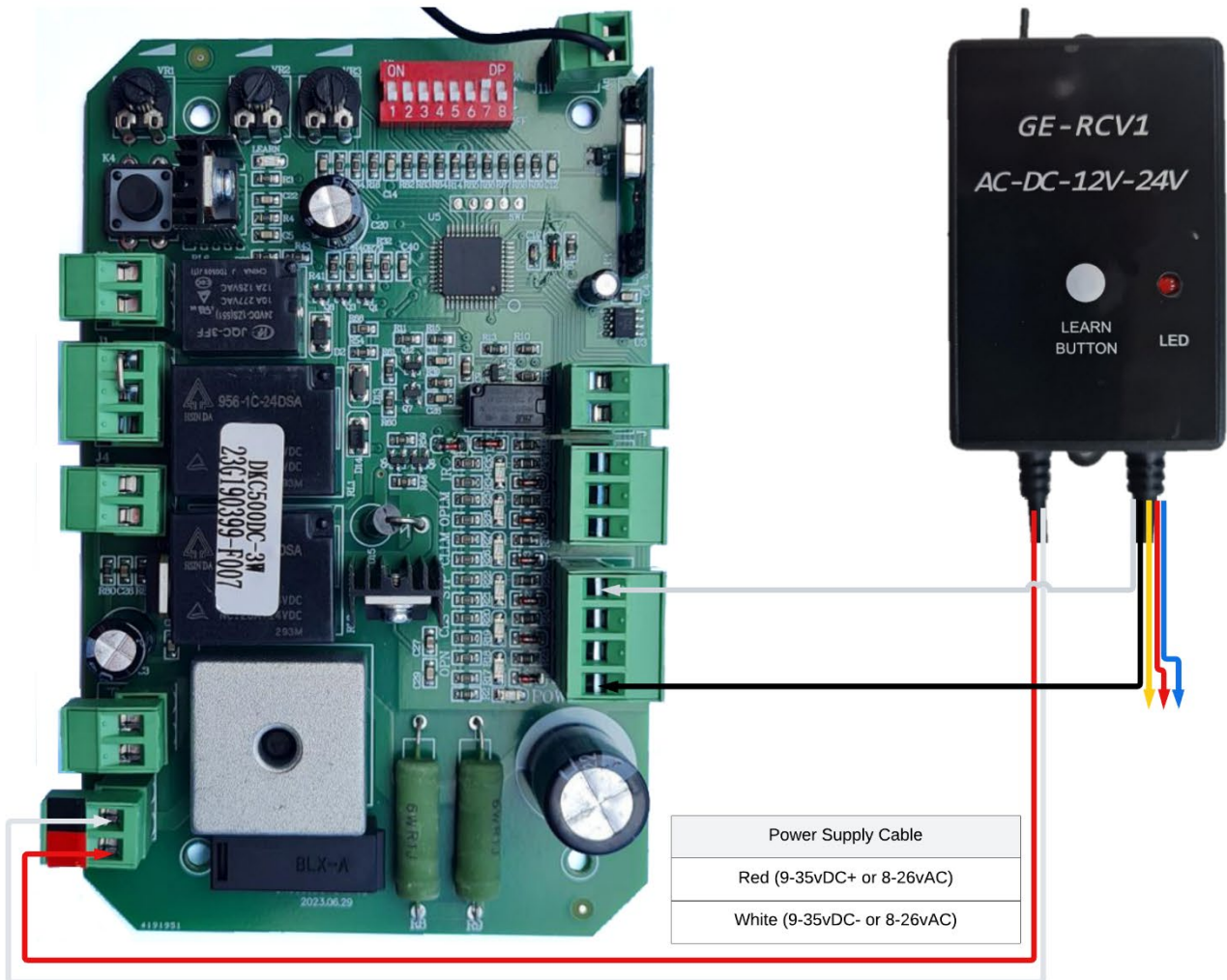


### Previous PC Board Version

13 Terminal on Right-Hand Side

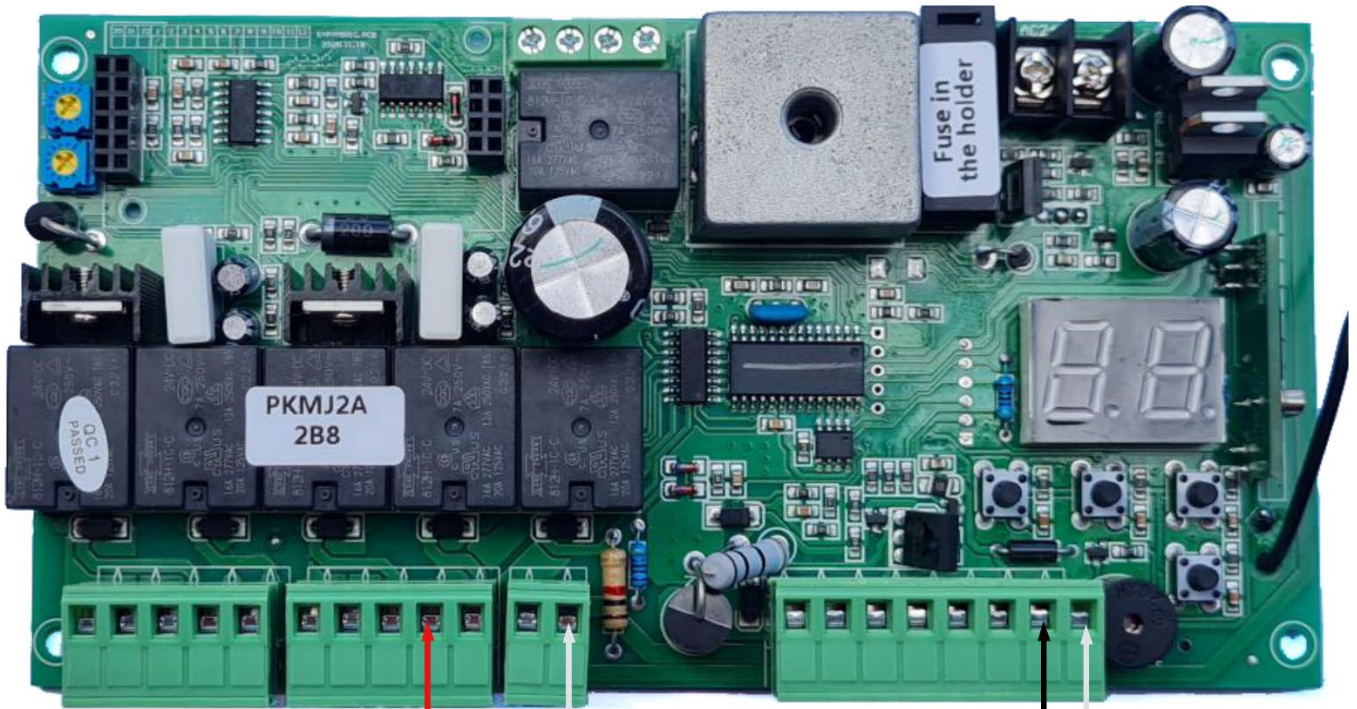
<u>GTR197 wire</u>	<u>GTR156/212 terminal</u>
Red (+)	Terminal 7 (+15v)
White (-)	Terminal 9 (GND)
Black (COM)	Terminal 4 (COM)
White (Channel 1)	Terminal 5 (O/S/C)
* Do not remove jumper wire between terminals 8 & 9 *	

## GTR061 or GTR207 slide motor connection



<u>GTR197 wire</u>	<u>GTR061/207 terminal</u>
Red (+)	BAT+
White (-)	BAT-
Black (COM)	Terminal 4 (COM)
White (Channel 1)	Terminal 1 (O/S/C)

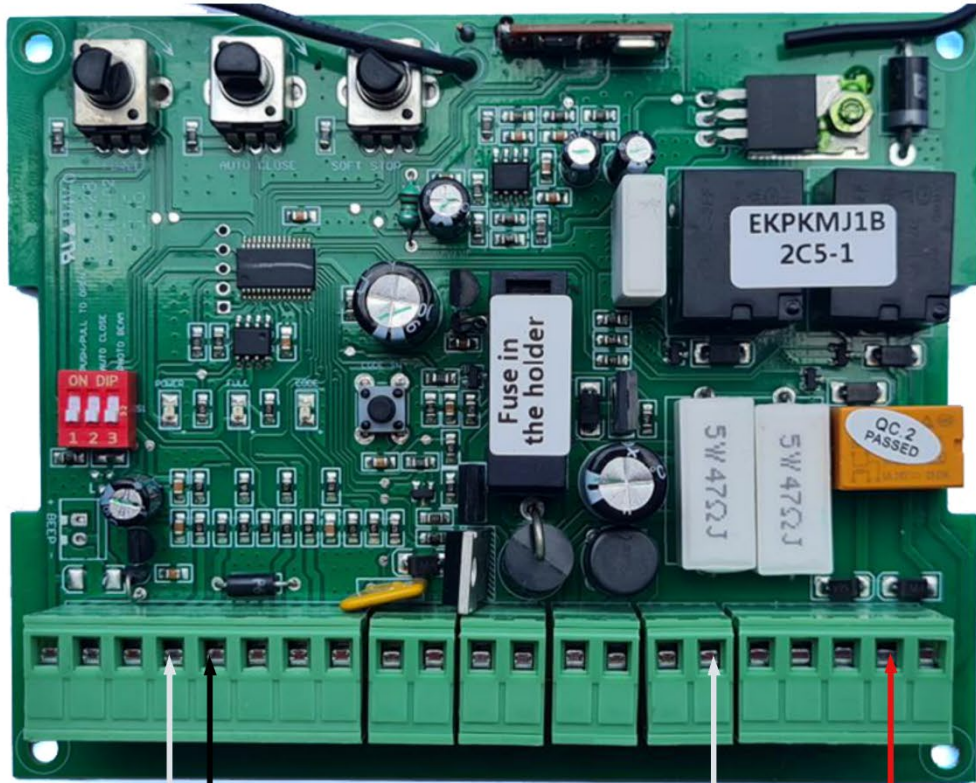
## GTR058 double swing connection



<u>GTR197 wire</u>	<u>GTR058 terminal</u>
Red (+)	Terminal 9 (COM)
White (-)	Terminal 12 (Lamp -)
Black (COM)	Terminal 19 (O/S/C)
White (Channel 1)	Terminal 20 (O/S/C)



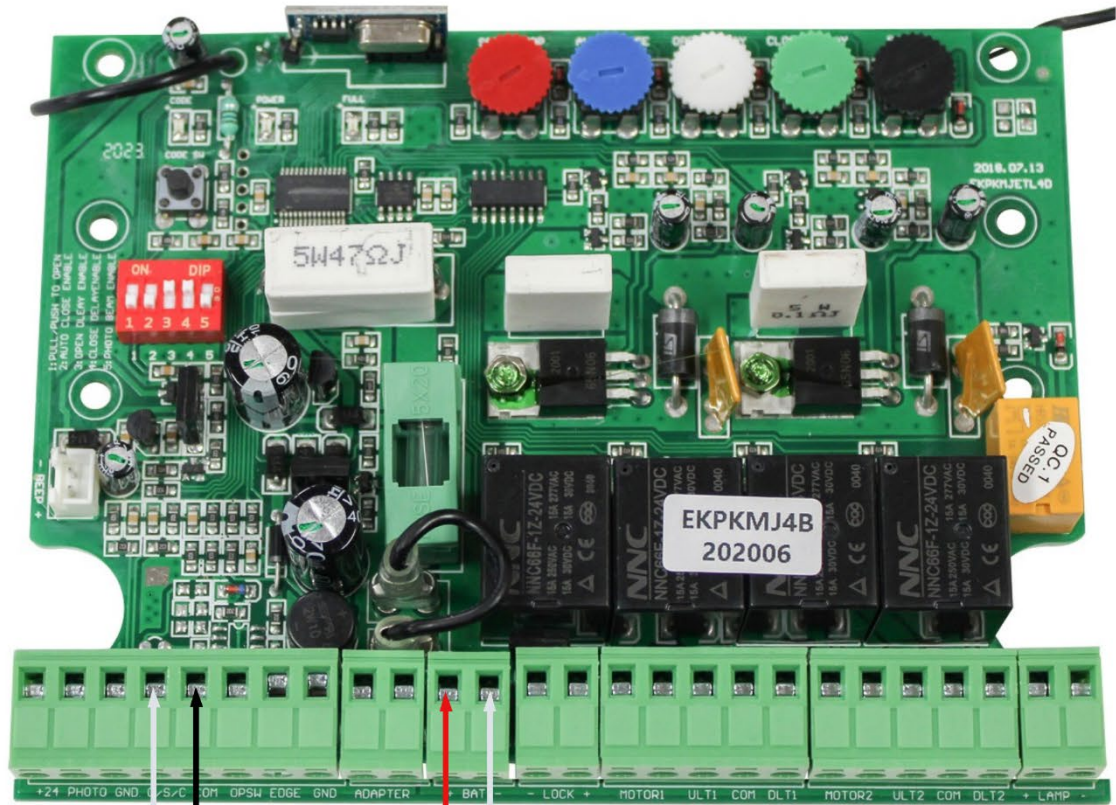
## GTR099 single swing connection



<u>GTR197 wire</u>	<u>GTR099 terminal</u>
Red (+)	Terminal 20 (COM)
White (-)	Terminal 16 (Lamp -)
Black (COM)	Terminal 5 (COM)
White (Channel 1)	Terminal 4 (O/S/C)

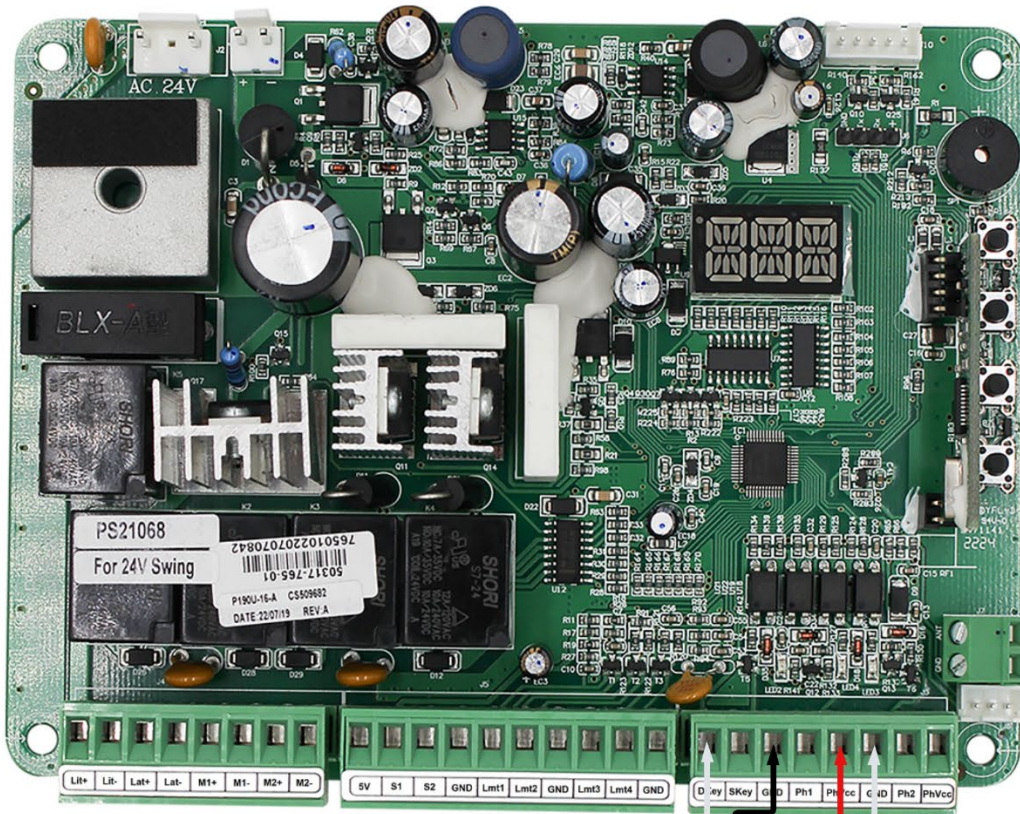


## GTR062 or GTR078 solar swing connection



<u>GTR197 wire</u>	<u>GTR062/078 terminal</u>
Red (+)	Terminal 11 (BAT+)
White (-)	Terminal 12 (BAT-)
Black (COM)	Terminal 5 (COM)
White (Channel 1)	Terminal 4 (O/S/C)

## GTR500 to GTR503 swing and articulated connection



<u>GTR197 wire</u>	<u>GTR500-503 terminal</u>
Red (+)	Terminal 23 (PhVcc)
White (-)	Terminal 24 (GND)
Black (COM)	Terminal 21 (GND)
White (Channel 1)	Terminal 19 (DKey)