Scan for
wiring diagrams
and additional info.

GTR181
Electric Swing Gate Lock

Compatible with the following Richmond motors.		
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: 12-24vDC**
- **Power Cable: 5-metres x 2-core cable**
- **Current draw: 50mA (active)**
- **Operating temperature: -10°C to 50°C**
- **Emergency Release: Manual Key to unlock**
- **Keys Included: Yes**
- **Dimensions: 218mm x 102mm x 53mm**
- **Weight: 1.8kg**
- **Fixings Included: No**
- **Also included: E-Plus board for open relay timing**

Using the GTR181 Electric Gate Lock:

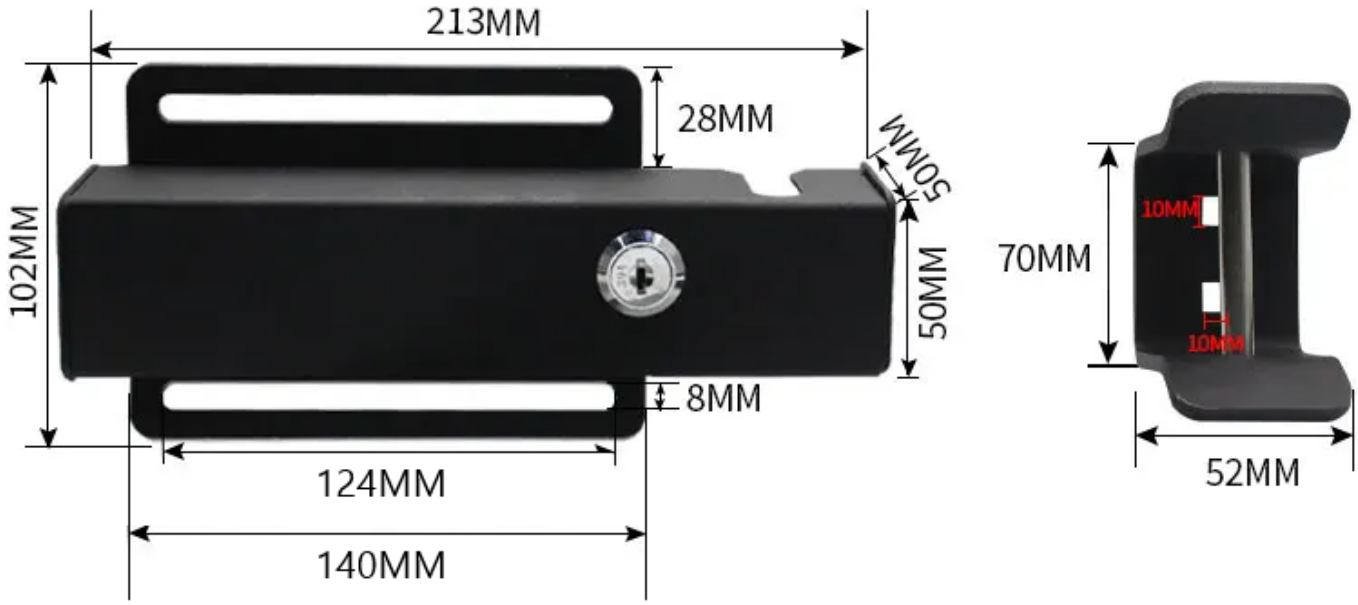
The GTR181 Electric Gate Lock allows additional peace of mind when securing your swing gate.
Redesigned and updated for modern gates, the low friction latch allows a softer close and easier opening.
This is extremely important when being fitted in locations that suffer wind gusts as it avoids the binding issues commonly found in outdated gate lock systems.

Once correctly installed, the lock will automatically operate when a gate opening is triggered.

For older systems, an e-plus board is included.
This operates the gate lock for up to 6 seconds to allow the gate to open far enough and avoid binding.

The lock should be fitted to the inside of a standard push-to-open gate.

Dimensions



Important Information:

1. Before you install the Electric Lock please be sure the gate is level, moves freely, and does not bind.

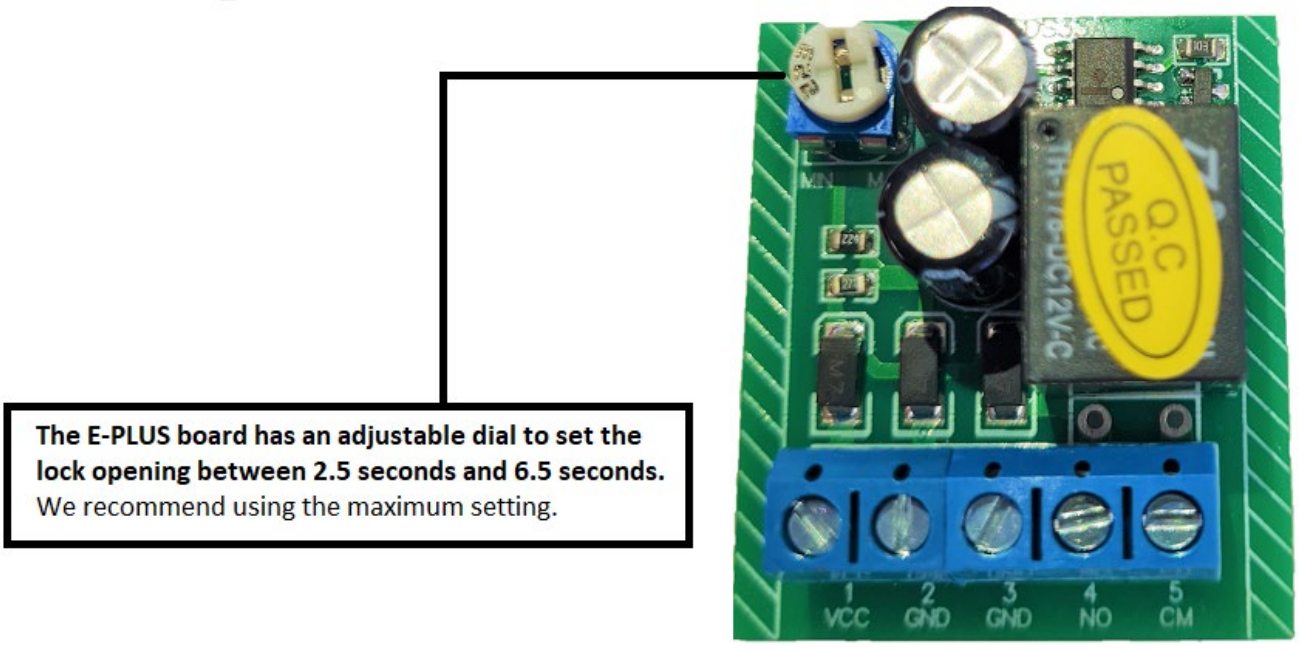
2. The gate opener should close the gate firmly, engaging the lock catch against the lock receiver.

3. The Electric Lock must be installed on the side of the gate that it opens towards.

4. Due to the various mounting conditions , mounting hardware is not provided.
Read this manual carefully to determine the mounting hardware required for your installation.

The E-PLUS board:

An E-PLUS board is included.
Modern gate systems will have a timer built into their lock circuit that allows the latch to operate for approx. 3 seconds.
For systems without this, the E-PLUS board is supplied.
This operates the gate lock for up to 6 seconds to allow the gate to open far enough and avoid binding.



Installation for a Single Swing Gate

Step 1: With the gate in the closed position, determine the best location for the lock and receiver.

- The lock and receiver must be level and aligned.
- The lock and receiver should have a solid surface or tube fence to provide stability.

Step 2: For best operation, the swing arm and lock should be at the same level.

- Best position is mid-height on your gate. This is especially important on tall or lightweight gates that may twist.
- Any twisting of the gate can cause the lock to bind and not operate correctly.

Step 3: Recheck the locks position and alignment before connecting the lock and operating the gate.

Step 4: Connect the power cables for the lock to the PC board of swing gate opener.

- Use the E-Plus board if required. This will allow the lock to operate for up to 6 seconds.
    - Most modern gate systems will have a timed lock relay built in.

Step 5: Open the gate halfway and test the operation of the gate lock.

- When the gate OPENS, the lock should activate/unlatch for approx. 3 seconds.
- When the gate CLOSES, the lock should not operate at all.

Step 6: If everything is aligned and operating correctly you can resume normal use of your gate.

Maintenance:

- **Regularly check the alignment of the lock and latch.**
- **Lubricate the latching portion with an oil-based spray lubricant**

Figure A

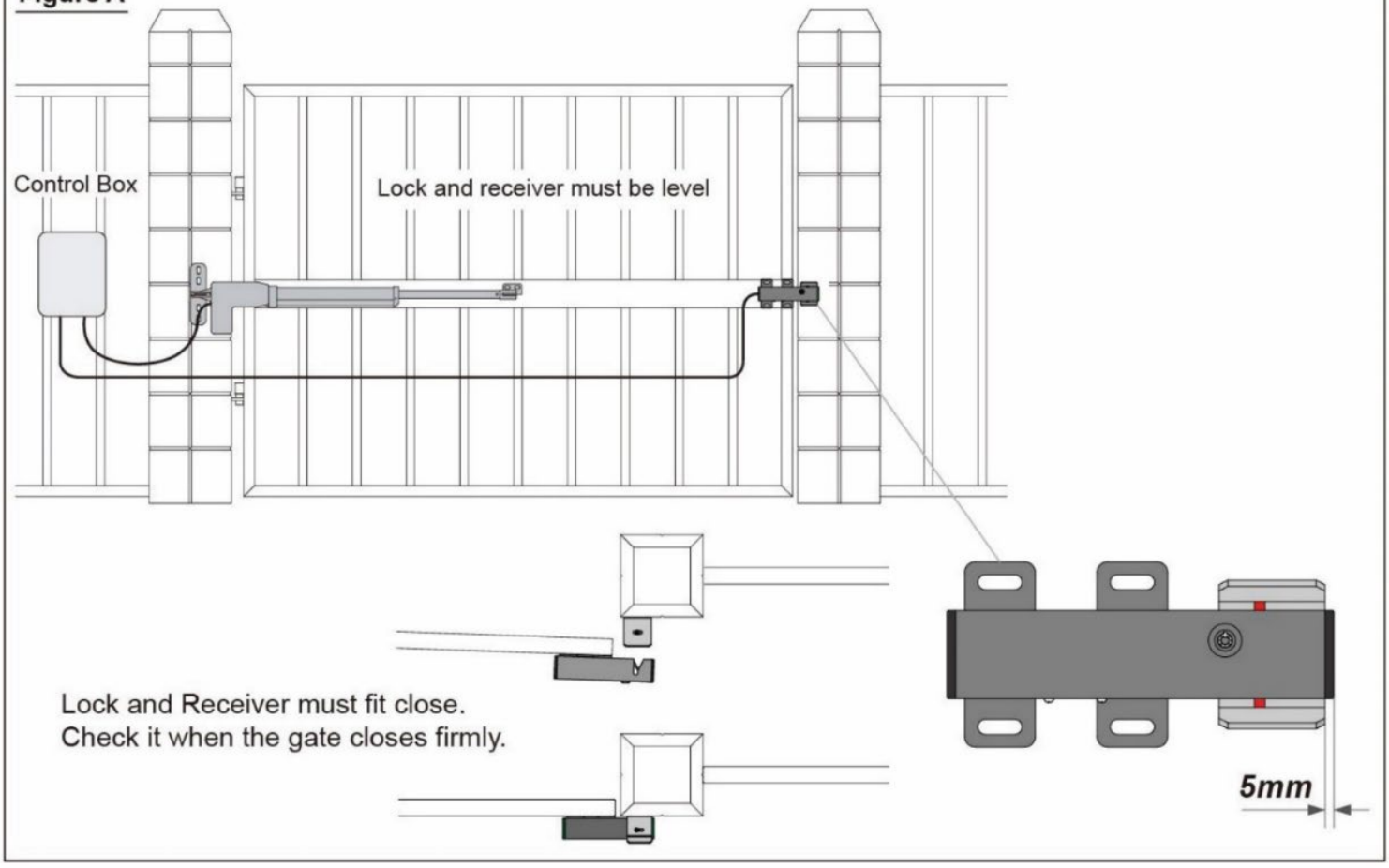
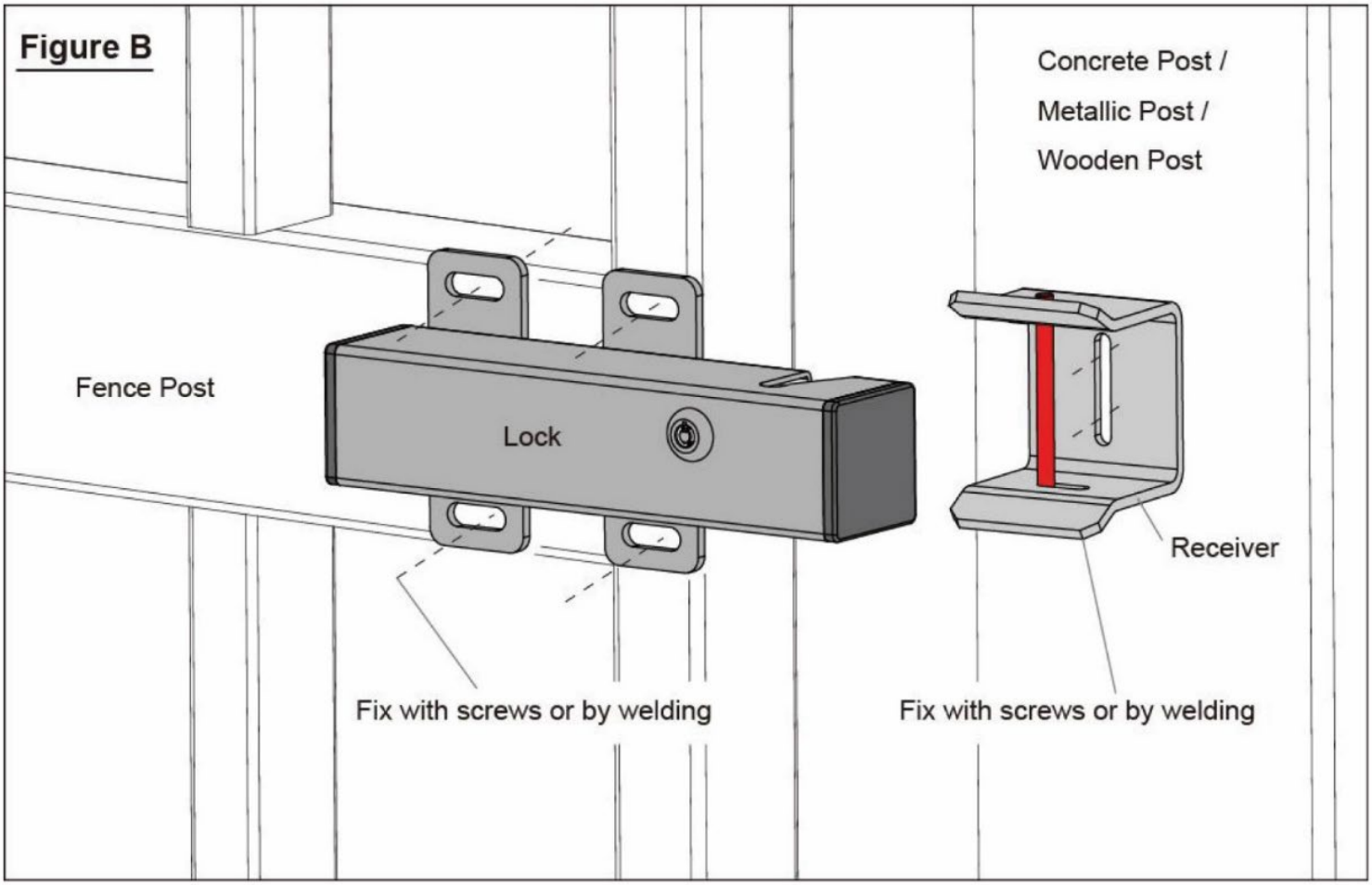


Figure B



Installation for a Double Swing Gate

We recommend a ground stopper be fitted when installing any lock on a double swing gate.

Step 1: With the gates in the closed position, determine the best location for the lock and receiver.

- For a double gate
- The lock and receiver must be level and aligned.
- The lock and receiver should have a solid surface or tube fence to provide stability.

Remember:

- The lock should be fitted to the Primary gate. This gate opens FIRST and closes LAST.
- The receiver should be fitted to the Secondary gate. This gate opens LAST and closes FIRST.

Step 2: For best operation, the swing arm and lock should be at the same level.

- Best position is mid-height on your gate. This is especially important on tall or lightweight gates that may twist.
- Any twisting of the gate can cause the lock to bind and not operate correctly.

Step 3: Recheck the locks position and alignment before connecting the lock and operating the gate.

Step 4: Connect the power cables for the lock to the PC board of swing gate opener.

- Use the E-Plus board if required. This will allow the lock to operate for up to 6 seconds.
    - Most modern gate systems will have a timed lock relay built in.

Step 5: Open the gate halfway and test the operation of the gate lock.

- When the gate OPENS, the lock should activate/unlatch for approx. 3 seconds.
- When the gate CLOSES, the lock should not operate at all.

Step 6: If everything is aligned and operating correctly you can resume normal use of your gate.

Maintenance:

- **Regularly check the alignment of the lock and latch.**
- **Lubricate the latching portion with an oil-based spray lubricant.**

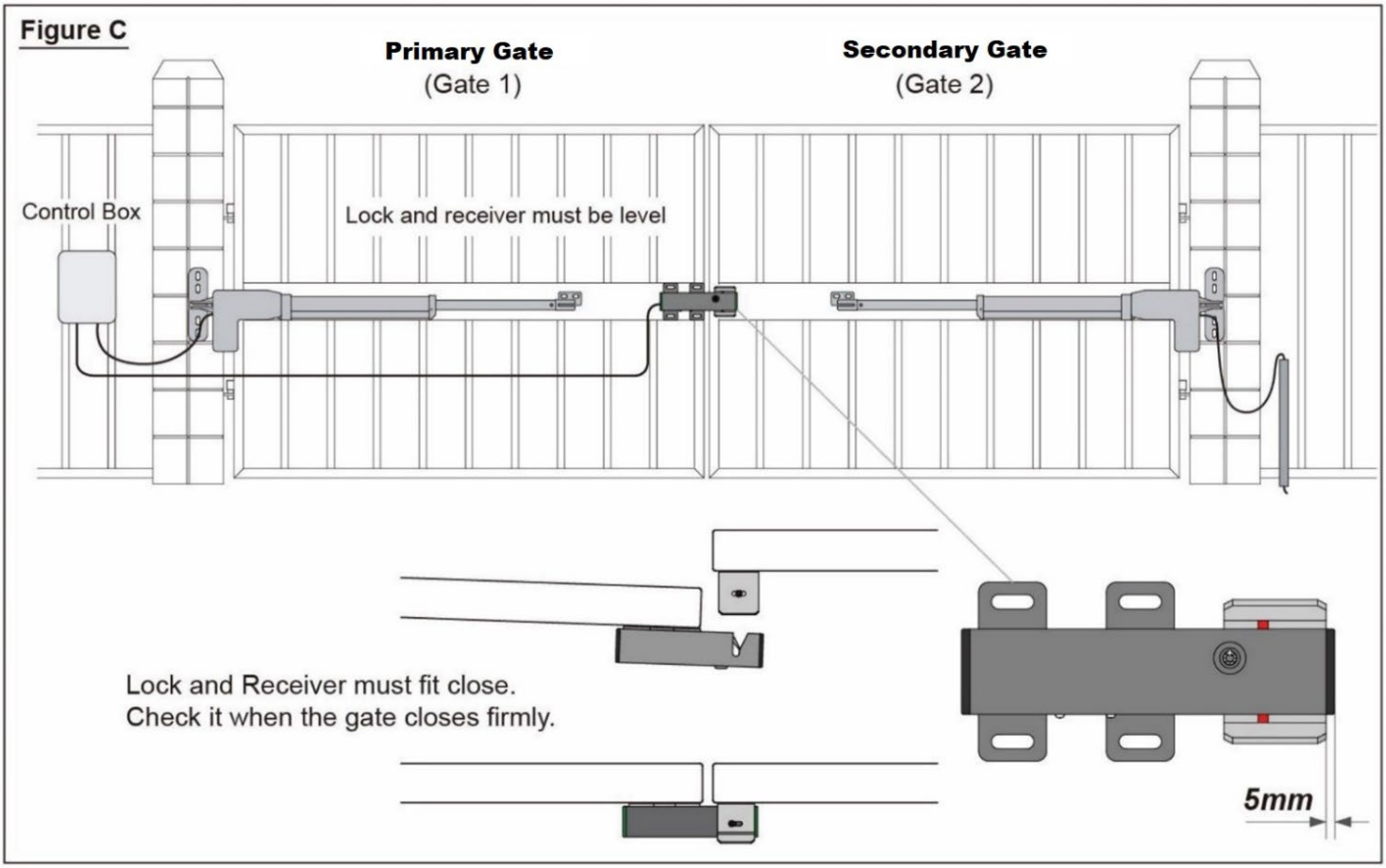


Figure C
Primary Gate
(Gate 1)
Secondary Gate
(Gate 2)
Control Box
Lock and receiver must be level
Lock and Receiver must fit close.
Check it when the gate closes firmly.
5mm

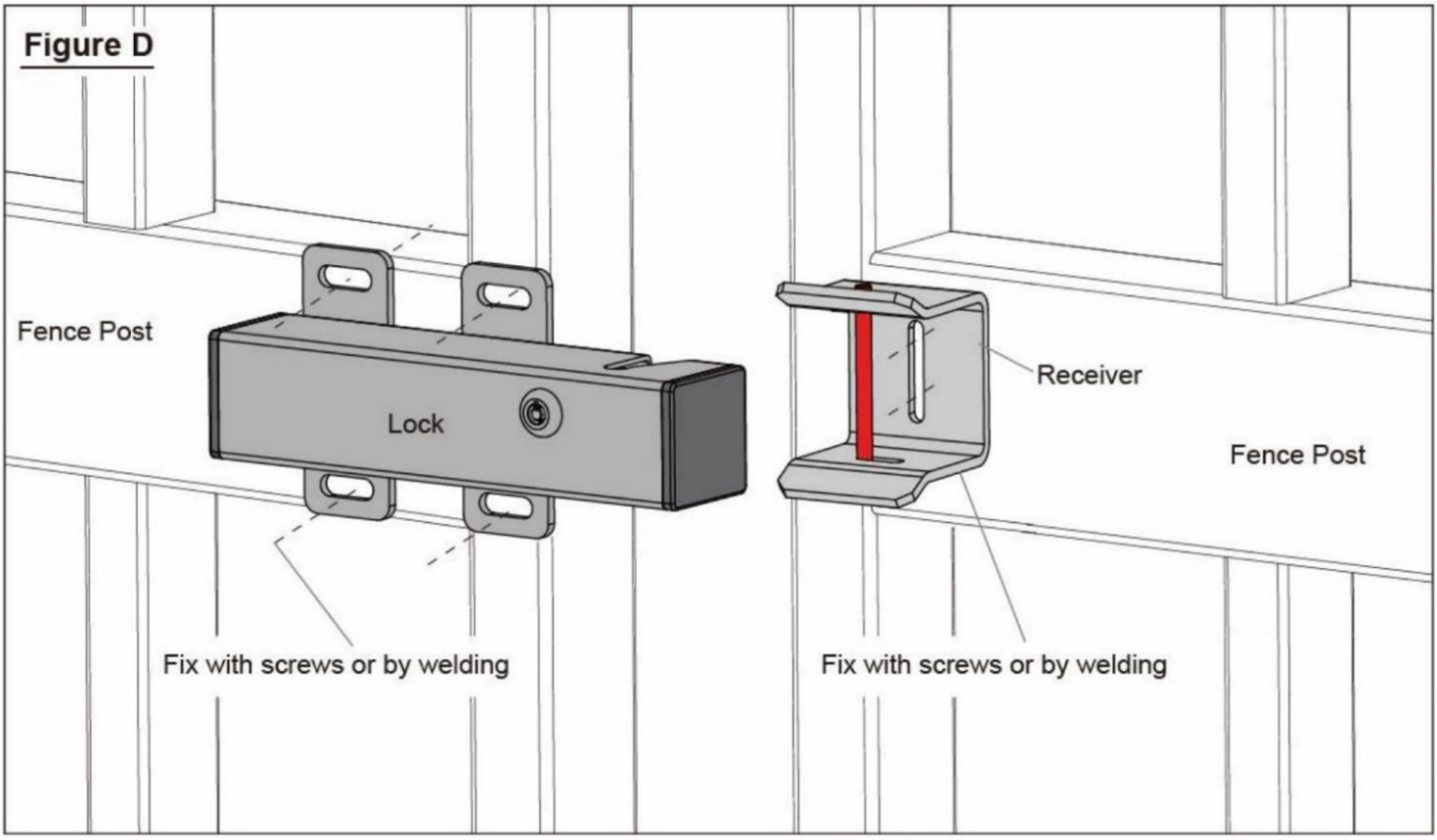
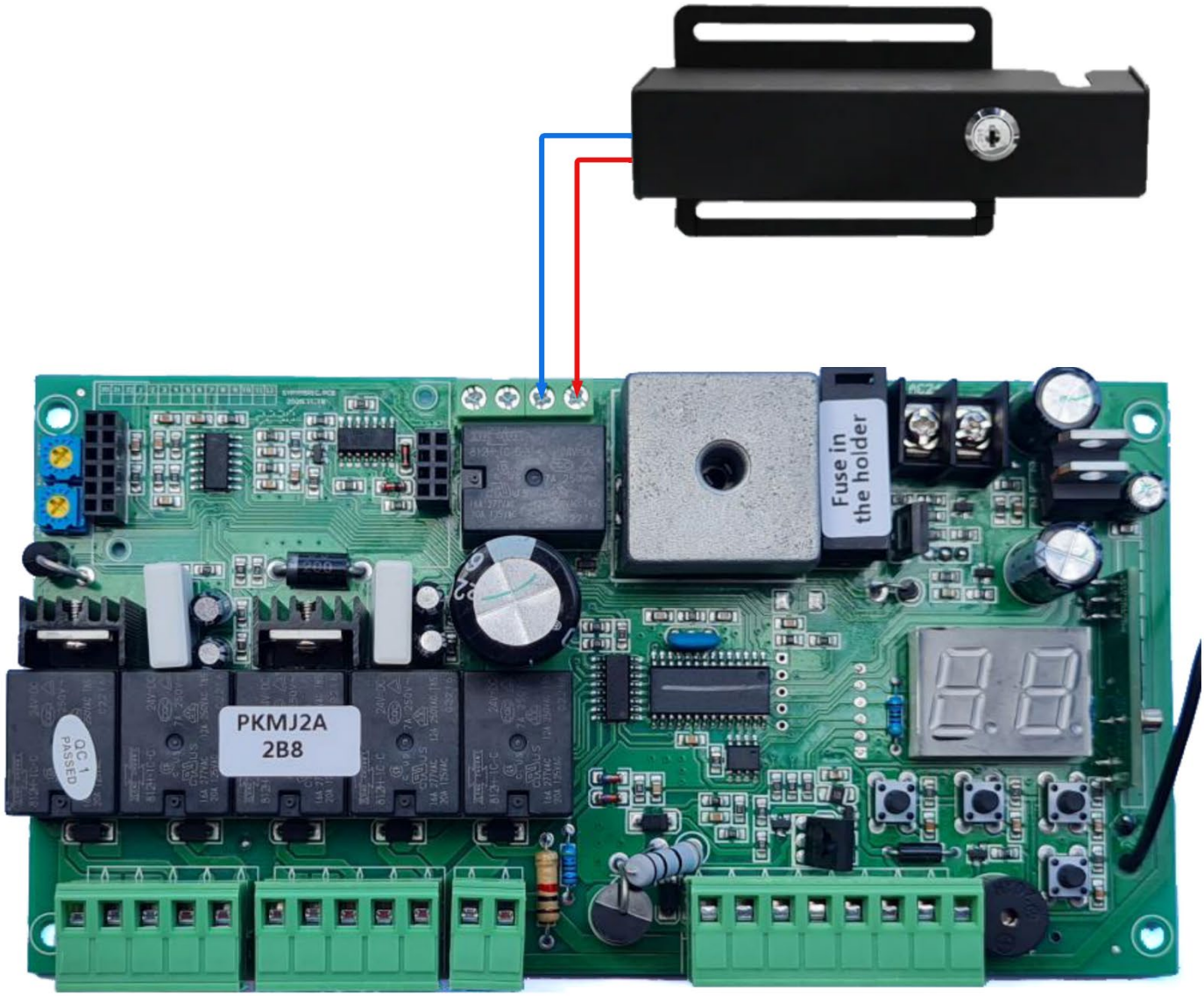


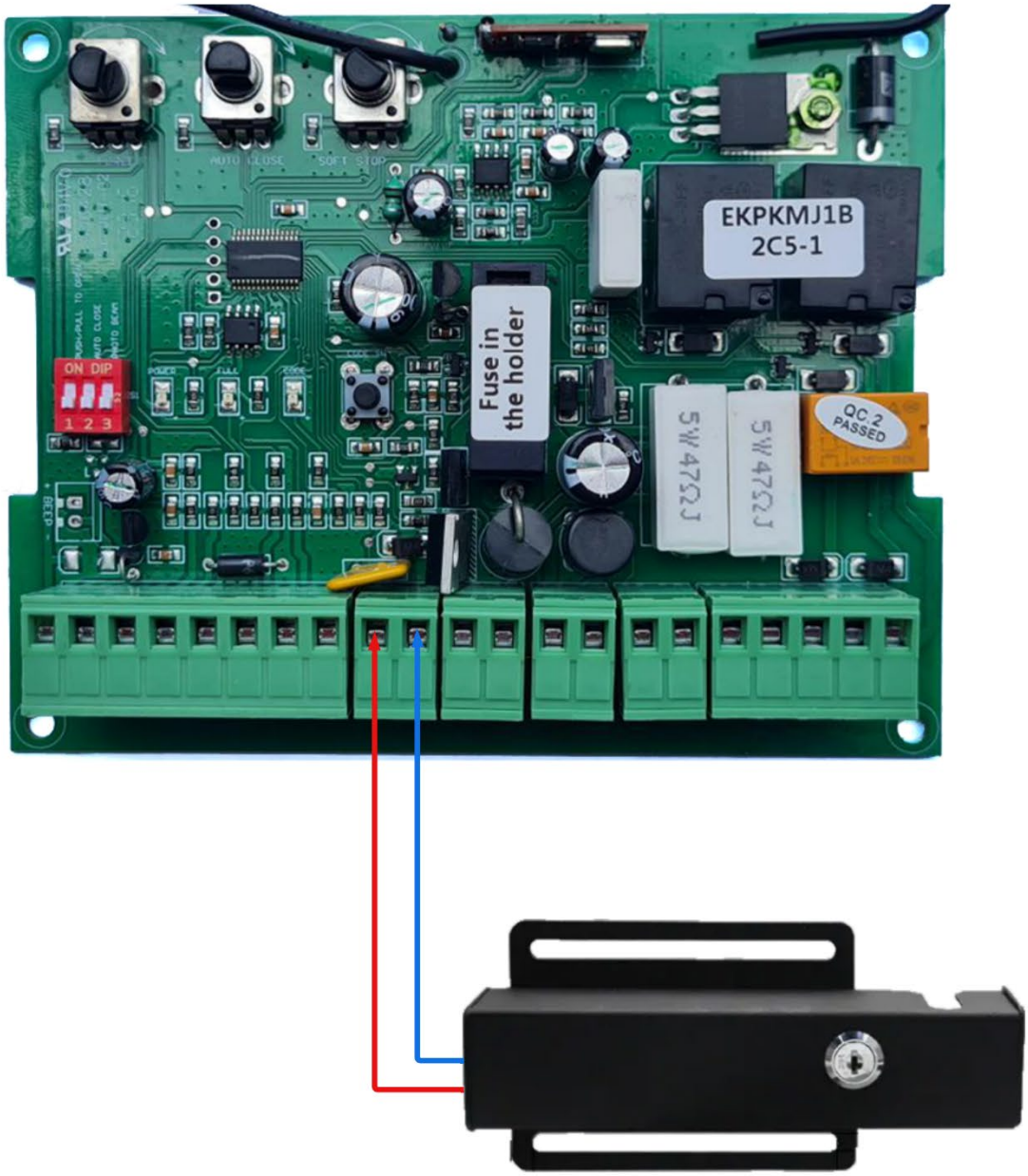
Figure D
Fence Post
Lock
Receiver
Fence Post
Fix with screws or by welding
Fix with screws or by welding

GTR058 double swing connection

GTR181 wire	GTR058 terminal
Red (Power +)	Terminal (LOCK)
Blue (Power -)	Terminal (LOCK)

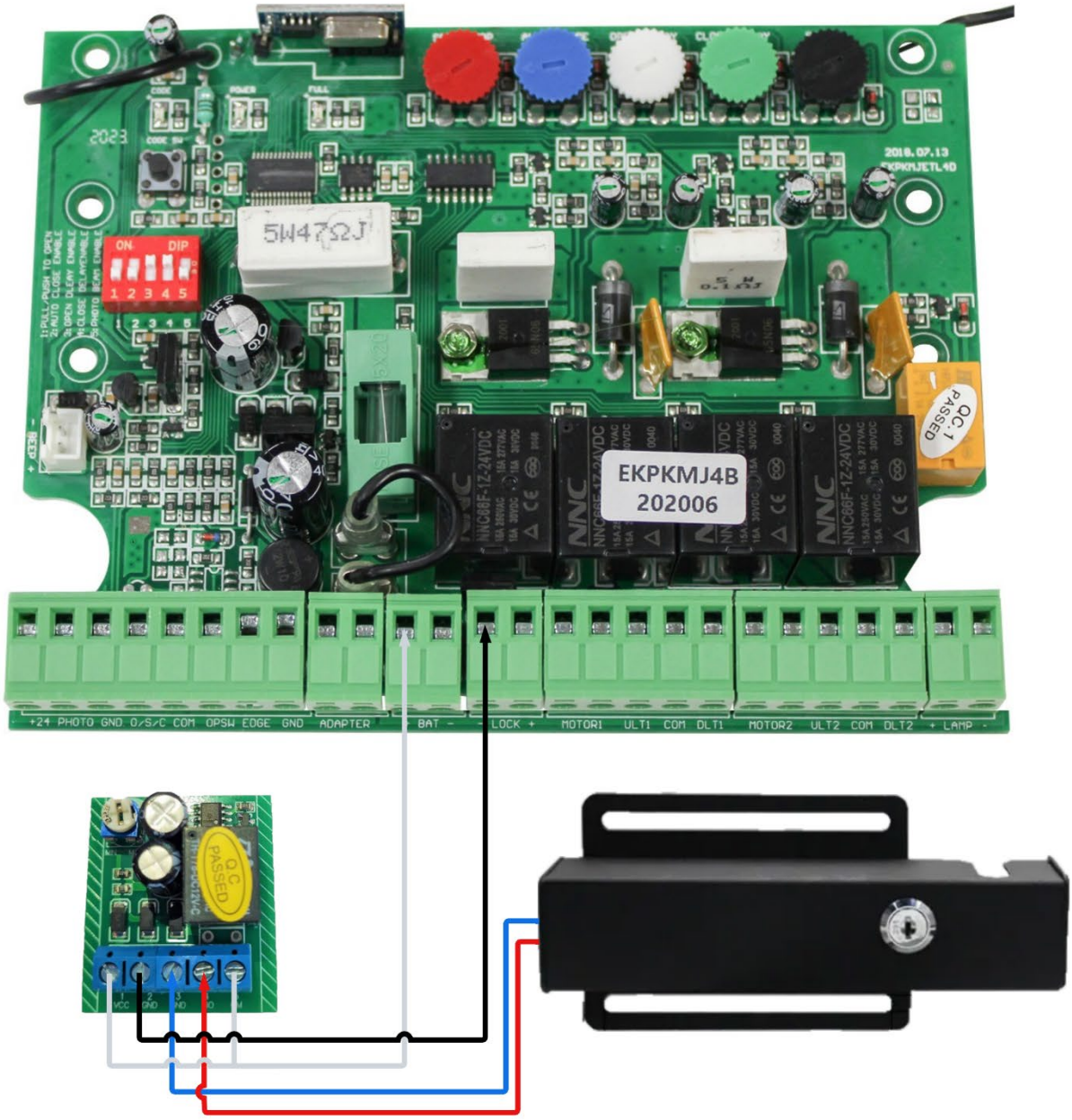


GTR099 single swing connection



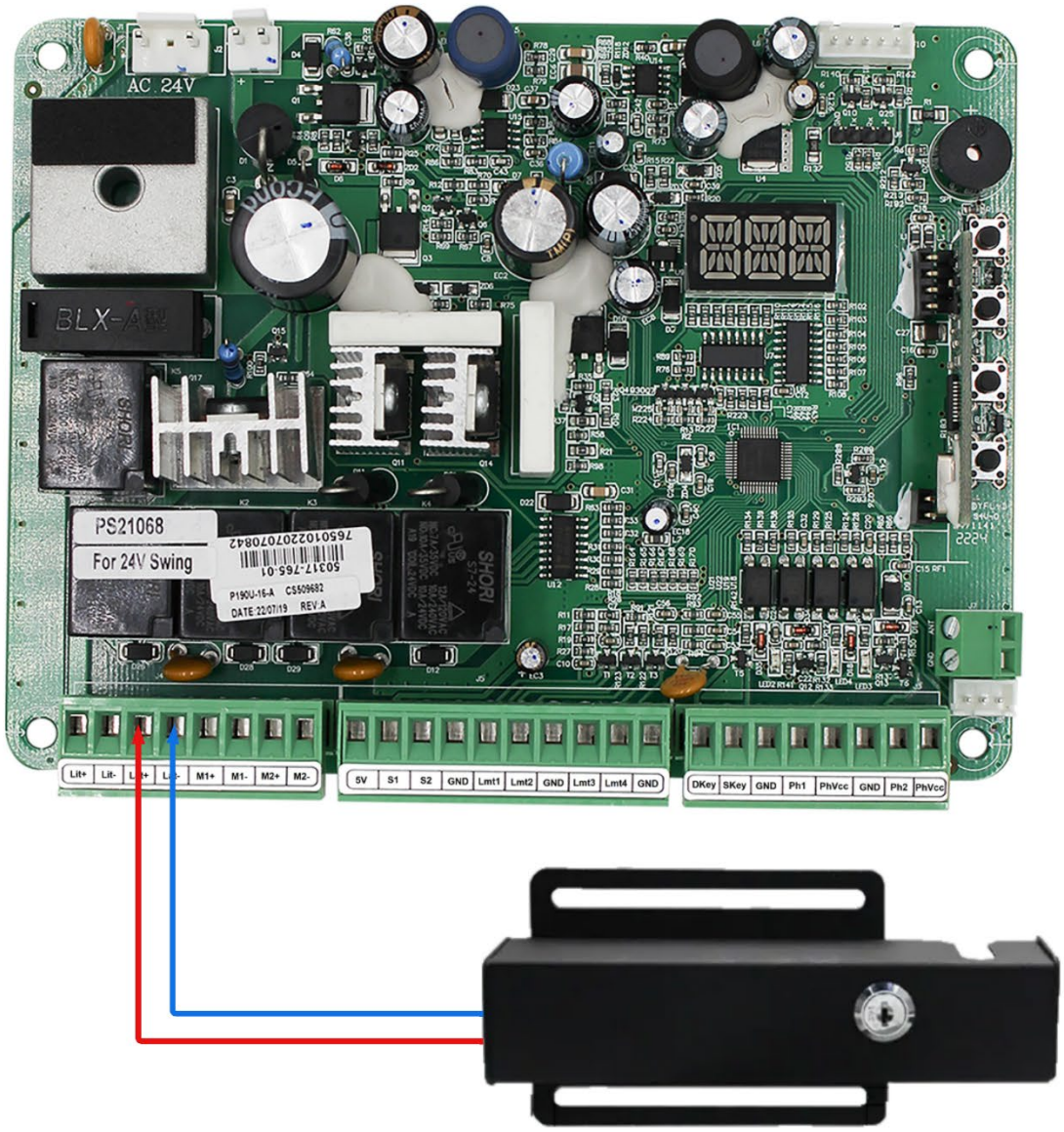
GTR181 wire	GTR099 terminal
Red (Power +)	Terminal 9 (LOCK+)
Blue (Power -)	Terminal 10 (LOCK-)

GTR062 or GTR078 solar swing connection



E-PLUS terminal	GTR062/078 terminal	GTR181 wire
Terminal 1 (VCC)	Terminal 11 (BAT+)	
Terminal 2 (GND)	Terminal 13 (LOCK-)	
Terminal 3 (GND)		Red Lock Wire
Terminal 4 (NO)		Blue Lock Wire
Terminal 5 (CM)	Terminal 11 (BAT+)	

GTR500 to GTR503 swing and articulated connection



GTR181 wire	GTR500-503 terminal
Red (Power +)	Terminal 3 (LAT+)
Blue (Power -)	Terminal 4 (LAT-)