



# Automation Systems

## A U S T R A L I A

# **APACHE 24**

24 Volt Articulated Arm System  
With Limit Stops



### **Important!**

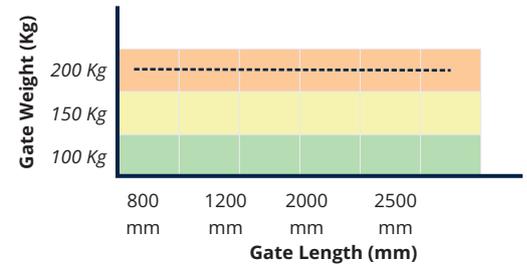
Please read the manual carefully as it contains important points that need to be followed for a successful installation, we recommend reading all the preliminary information FIRST (page 1-3) then proceed to the relevant installation section and read in its entirety at least once before beginning the installation.

Pull To Open Installation (Gate opens TOWARDS the motor) begins Page 4

Push To Open Installation (Gate opens AWAY from the motor) begins Page 7

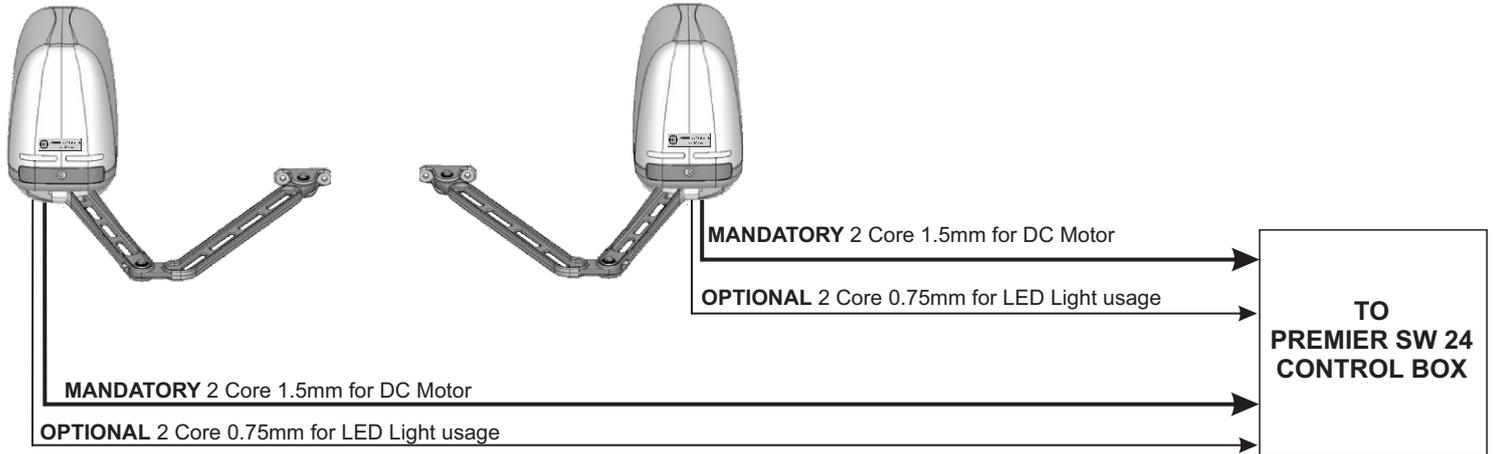
## Specifications

Voltage	24V DC
Current	2A
Gearing Structure	Transfer Gear
Case Material	Die Cast Alloy
Arm Material	Die Cast Alloy
Limit Type	Limit Stop (Open and Closed)
Duty Cycle	90%
Torque	180 Nm
Working Temperature	-20°C to 60°C
IP Rating	IP 44

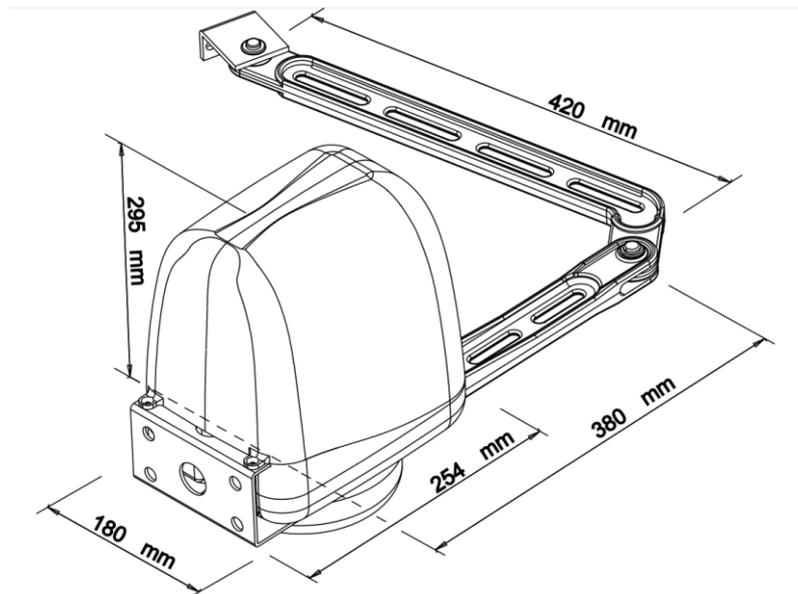


\*Tested ratings are based on ball bearing hinges and no wind resistance

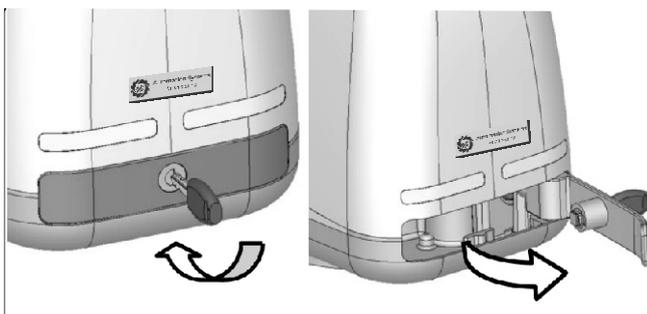
## Cabling Structure



## Dimensions



## Manual Release/Clutch



### To Unlock:

insert the key into the cylinder and turn 90°  
Pull the key which in-turn will pull the lever, when the lever is at 90° the operator will be released

### To Lock:

Push the lever back to the closed position and turn the key 90° to lock the cylinder.



Locked



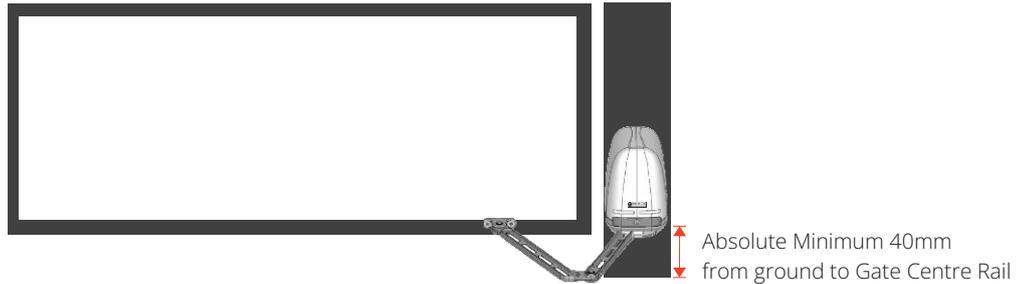
Unlocked

## Installers Brief Checklist

- Ensure the gate(s) structure is rigid and does not flex
- Ensure you will be using an adequate fastening system to suit the structure and environment
- Ensure the gate(s) move freely and uniformly
- Ensure that the installation geometry can be adhered to
- Ensure that if any underground work is occurring you have followed the local regulations and checked with utilities providers
- Ensure the correct operator is to be installed based on size, weight, geometry and wind resistance
- Never supply mains power to a gate motor directly
- Never install if it will present a hazard or danger

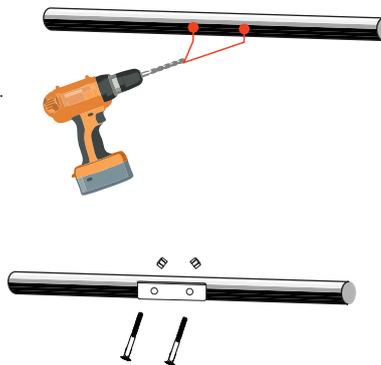
## Motor Placement

The motor will require a absolute minimum of 40mm between the ground and the centre horizontal gate rail for the mounting.

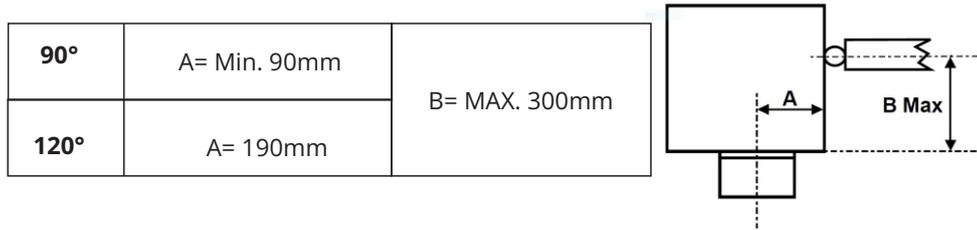


## Farm Gates

Drill Holes according to correct placement of gate bracket.  
Use bolts and nut to install to the gate



# Pull To Open Installation (Gate opens TOWARDS the motor)



## Adhere to the A and B Geometry range

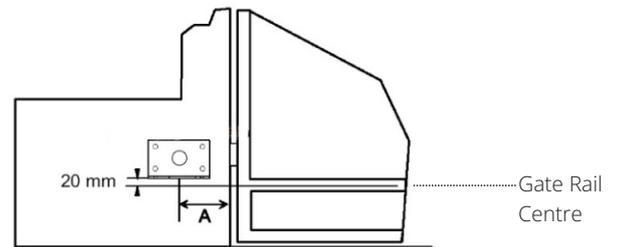
The A Measurement is from the Centre of the hinge to the centre of the post mounting bracket.

The B Measurement is from the Centre of the hinge to the mounting face of the post/pier.

### Step 1

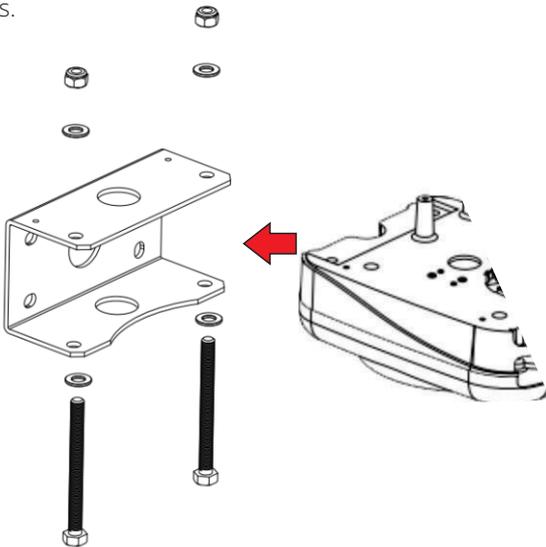
Install the post/pier bracket to the centre according to the A/B Geometry above.

The bracket should sit 20mm higher than the centre of the gates horizontal rail.



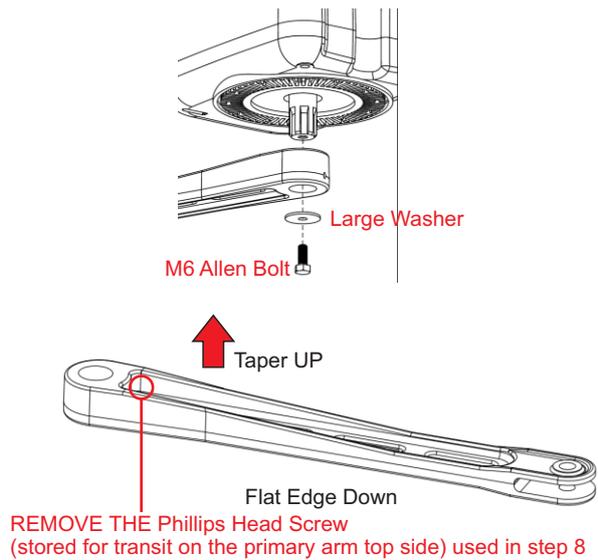
### Step 2

Install the Gate motor to the post bracket and secure using the two long bolts, washers and lock nuts.



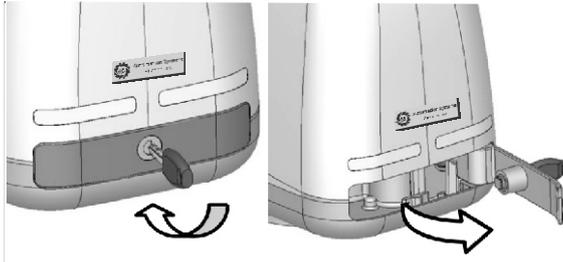
### Step 3

Install the Primary arm onto the gate motor taking note of the UPWARDS direction.



### Step 4

Manually disengage the motor so that the arm could be moved freely.

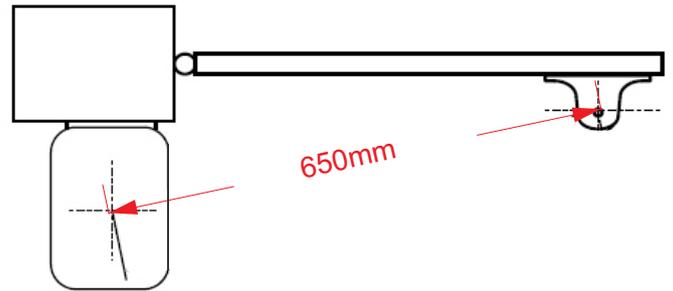


 Locked

 Unlocked

### Step 5

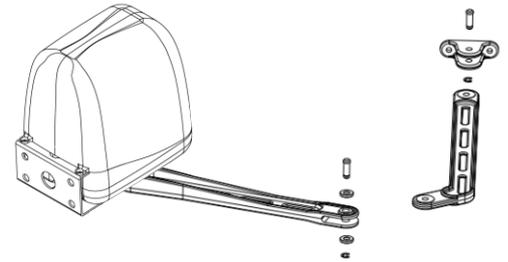
Install the gate bracket at 650mm measured diagonally from the motor's drive shaft to the face of the gate.



### Step 6

Install the secondary arm to create the link between the gate bracket and the primary arm.

The Medium size washer is used in the centre join on the top and bottom and the pin will go through and secured by the clip on the bottom.

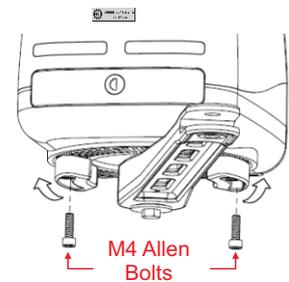


### Step 7

Manually open the gate to the desired open position and install the limit stopper securely ensuring it is locked into the slotted perimeter. This is the position that the stopper touches the arm in the open position and does not allow further travel.

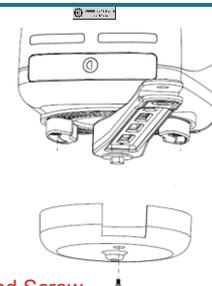
Manually close the gate to the desired closed position and install the limit stopper securely ensuring it is locked into the slotted perimeter.

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### Step 8

Install the bottom safety cover using the self-drilling Phillips head screw. Force will be required as it will cut in the thread.

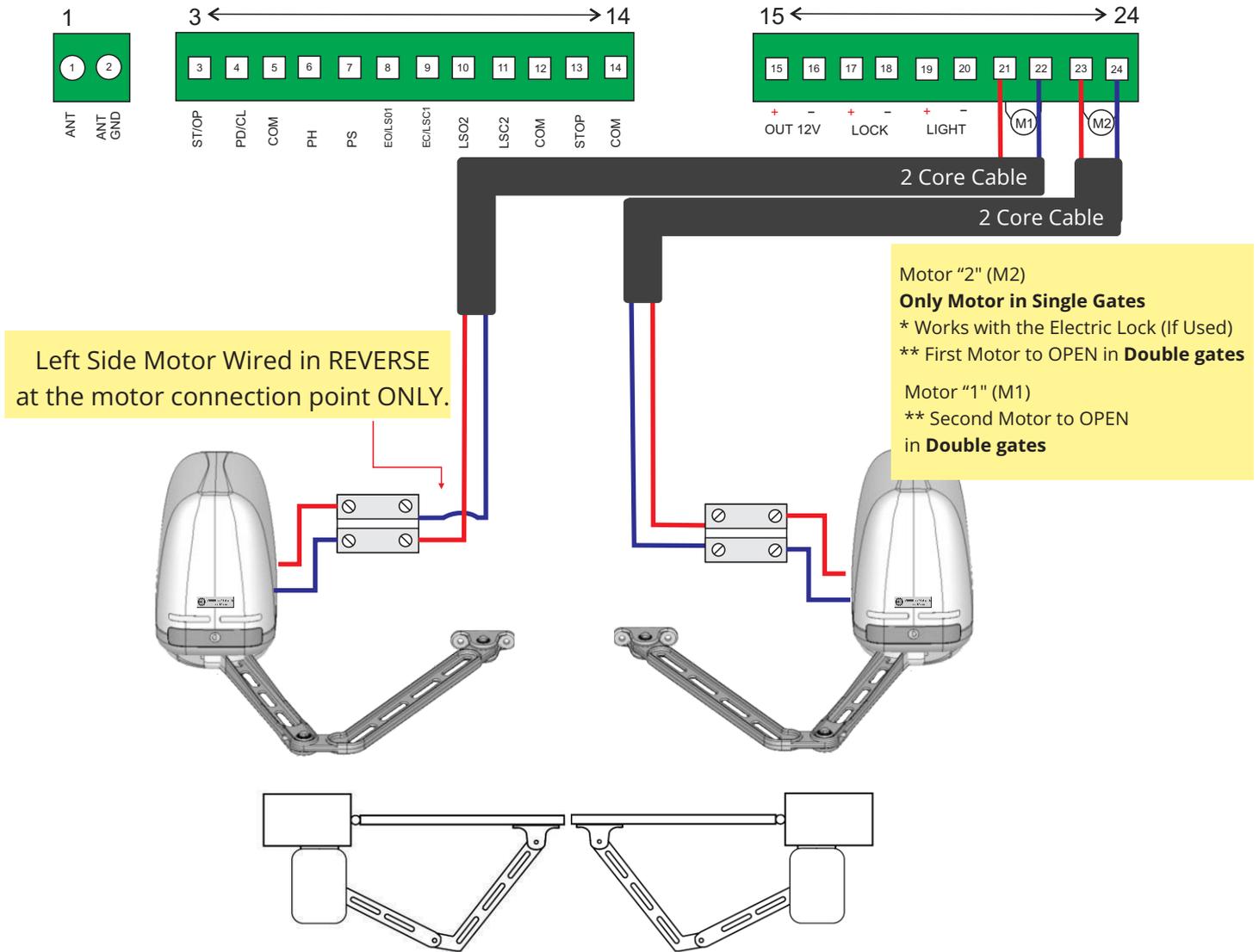


Phillips Head Screw  
(stored for transit on the primary arm top side, removed in step 3) →

**DOUBLE GATES: REPEAT ALL STEPS FOR THE SECOND GATE MOTOR**

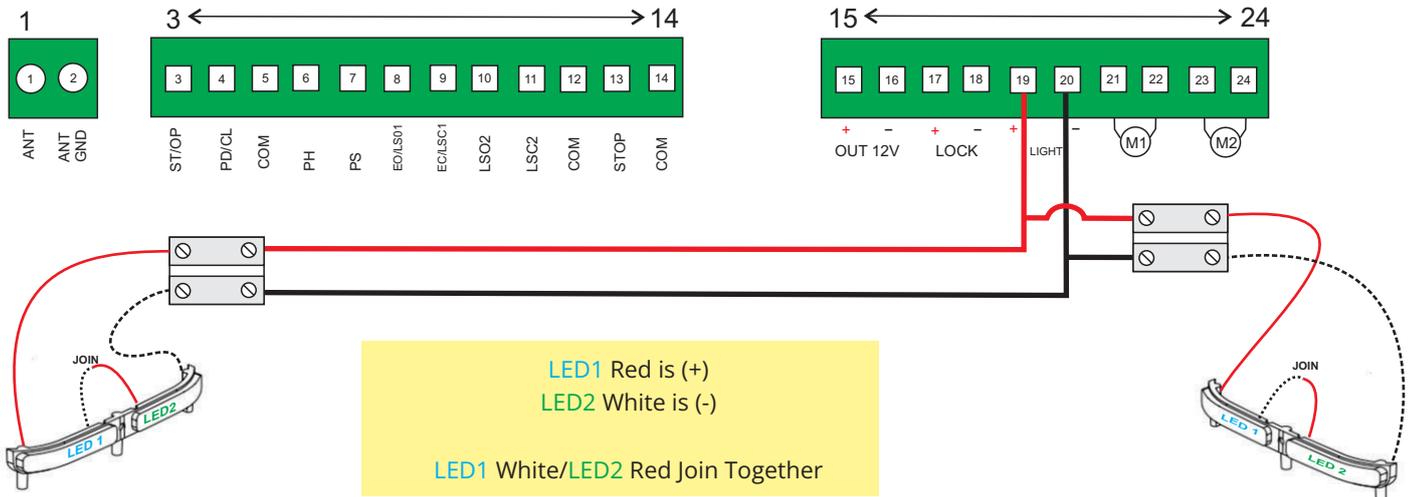
## Step 12

Follow the illustration below for the connection to the Premier 24 Swing Gate Controller paying attention to the **Motor 2 connection being the master gate** and Motor 1 Connection being the Second Motor for Double Gates.

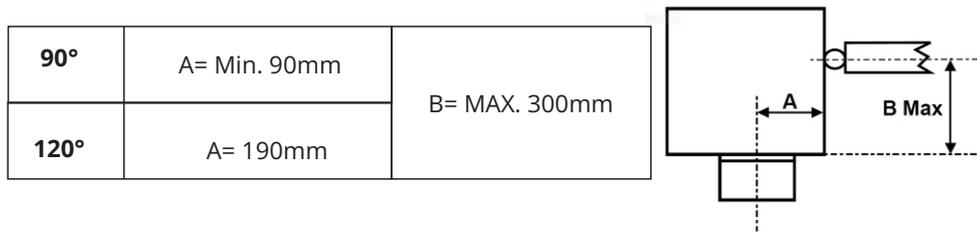


## OPTIONAL

Follow the illustration below for the connection of the led lights to the Premier 24 Swing Gate Controller.



# Push To Open Installation (Gate opens AWAY from the motor)



## Adhere to the A and B Geometry range

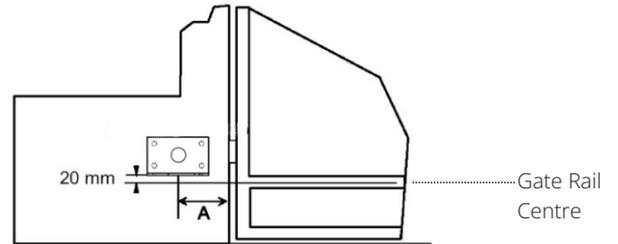
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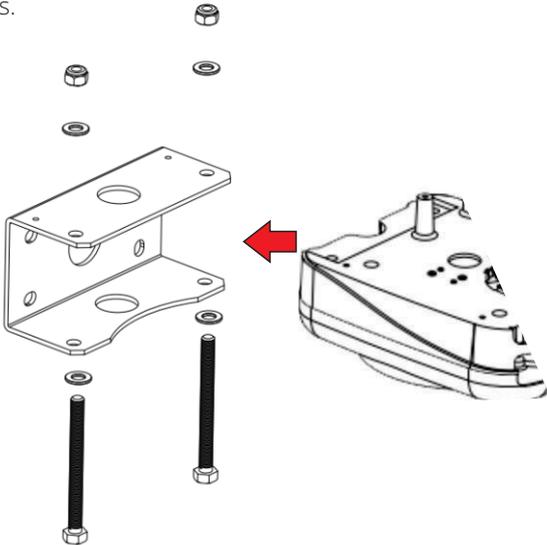
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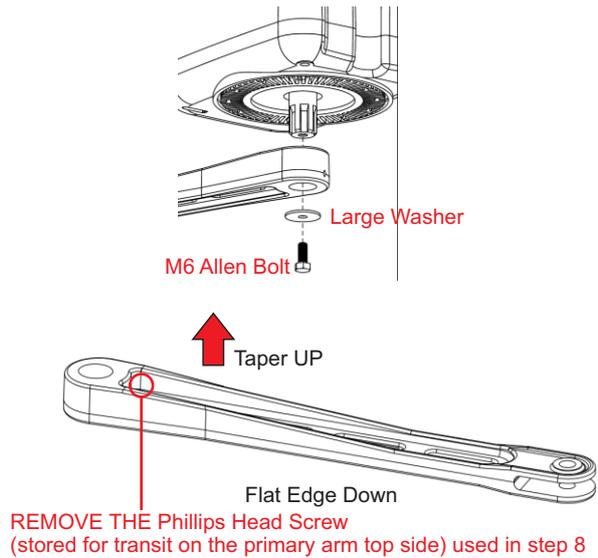
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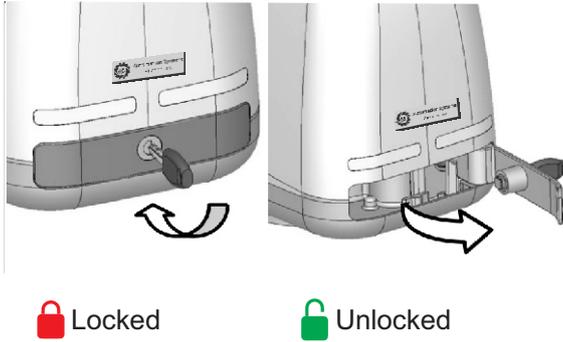
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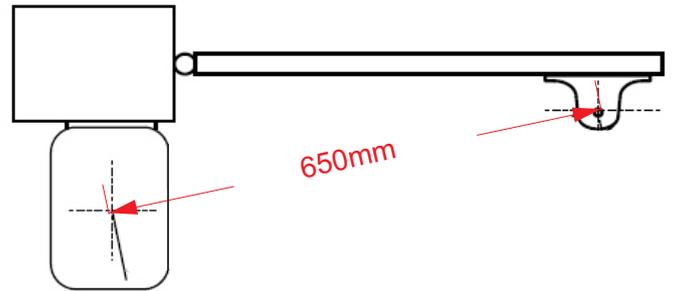
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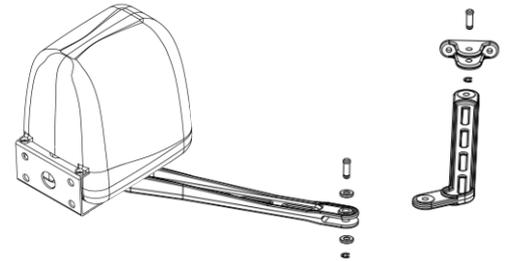
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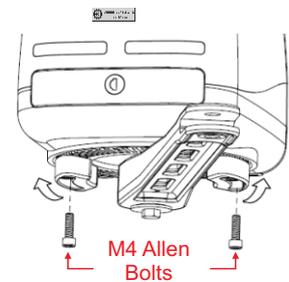


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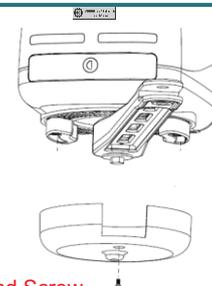
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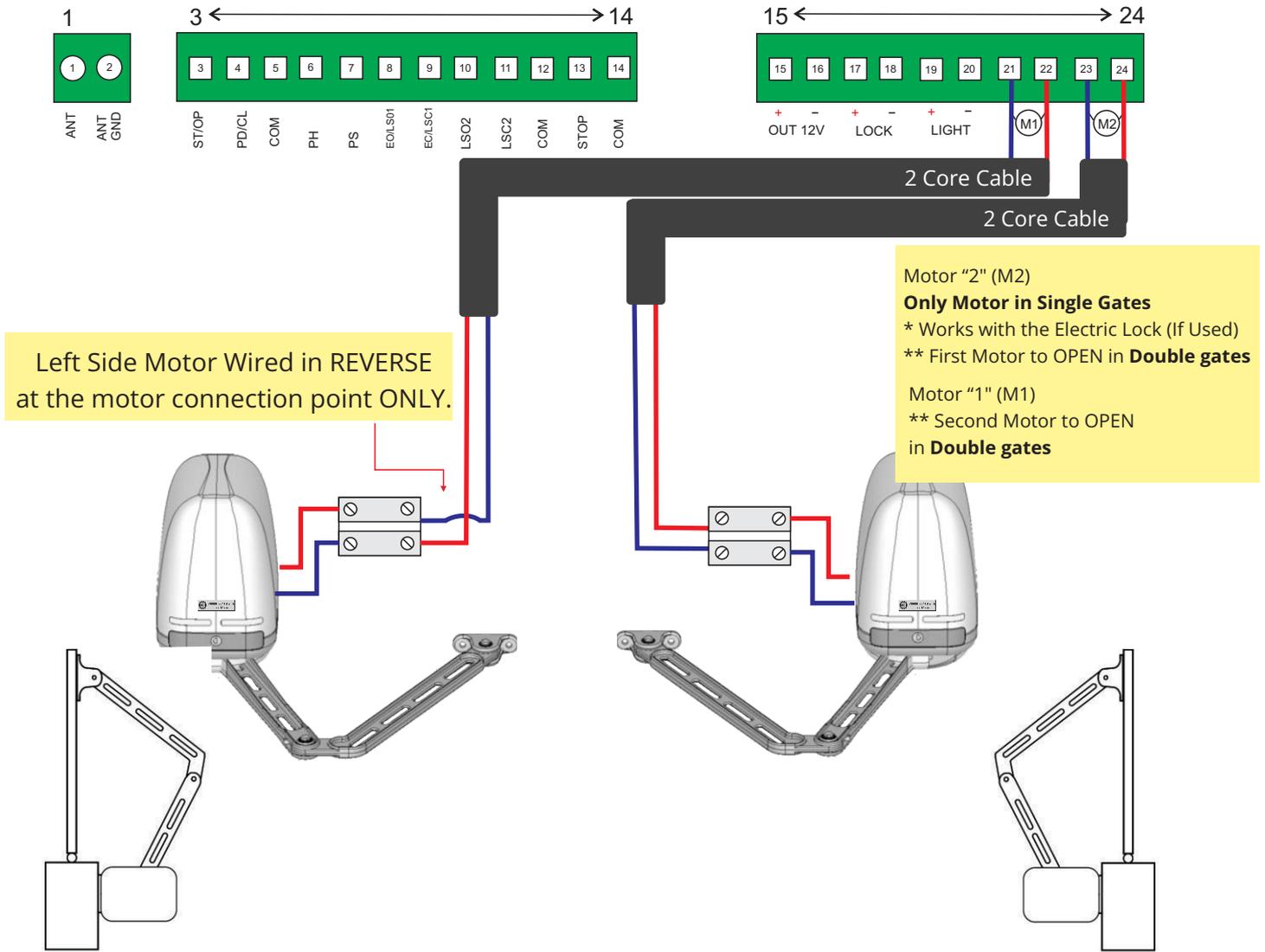


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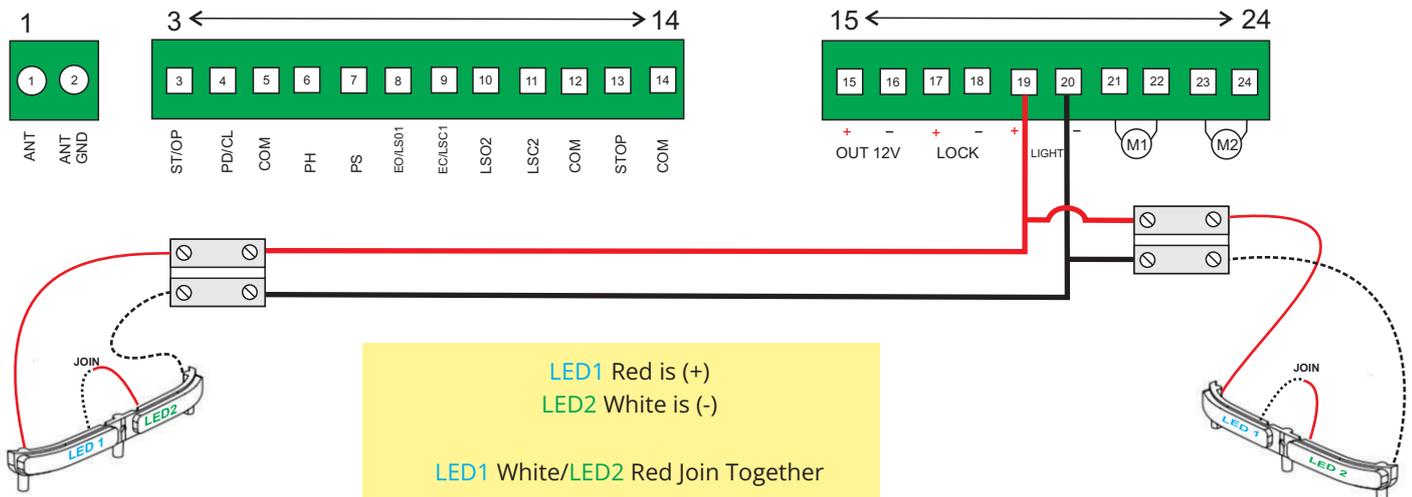
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## Warranty Terms and Conditions

The product is warranted for a period of 36 months (3 years) from the date of purchase, unless expressly specified as extended warranty (extension to the warranty period). The product is to be installed for its intended purpose and for normal use as outlined within the installation manual, the product warranty is exclusively for defects in manufacturing and manufacturing workmanship. It does not cover out of guidelines use, natural or other disasters, abnormal weather conditions, damage incurred in shipping or handling, damage caused by disaster such as fire, flood, wind, earthquake, lightning, excessive voltage, mechanical shock, water damage, damage caused by unauthorized attachment, alterations, modifications, or foreign objects, damage caused by peripherals (unless such peripherals were supplied by Automation Systems Australia), defects caused by failure to provide a suitable installation environment for the products, damage caused by usage of the products for purpose other than those for which it was designed, damage from improper maintenance, damage arising out of any other abuse, mishandling, and improper application of the products.

At is discretion Automation Systems Australia will require the item determined by the support staff to be returned to base in it original unmodified condition for a warranty inspection if within the warranty period. A return authorization "RA" number will be provided to be enclosed with the product in question. The warranty will not cover freight fees to base, customs fees or any labour costs at the installation site but will cover repair or replacement of the product as seen fit. Automation Systems Australia will cover the freight of the returned item to the original address if deemed as a warranty repair or replacement item. Any warranty repairs or replacements continue to carry through the remaining warranty period and do not extend or restart the period.

Under no circumstances shall Automation Systems Australia be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability, or any other legal theory. Such damages include, loss of profits, loss of the product or any associated equipment, cost of capital, cost of substitute or replacement equipment, facilities or services, down time, purchaser's time, the claims of third parties, including customers, and injury to property.

This warranty contains the entire warranty and shall be in lieu of any and all other warranties, whether expressed or implied (including all implied warranties of merchantability or fitness for a particular purpose). And of all other obligations or purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product.

Automation Systems Australia will at its option repair or replace out-of-warranty products at a determined cost which are returned to its base according to the following conditions. Anyone returning goods to Automation Systems Australia must first obtain an authorization number. Automation Systems Australia will not accept any shipment whatsoever for which prior authorization has not been obtained. Products which Automation Systems Australia determines to be repairable will be repaired and returned. A set fee which Automation Systems Australia has been predetermined and which may be revised from time to time will be charged for each unit repaired. Products which Automation Systems Australia determines not repairable will be replaced by the nearest equivalent product available at that time. The current market price for the replacement product will be charged for each replacement unit.