

# **BASCO**

**MOTOR SYSTEMS**

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**ORIGINAL USER  
MANUAL**

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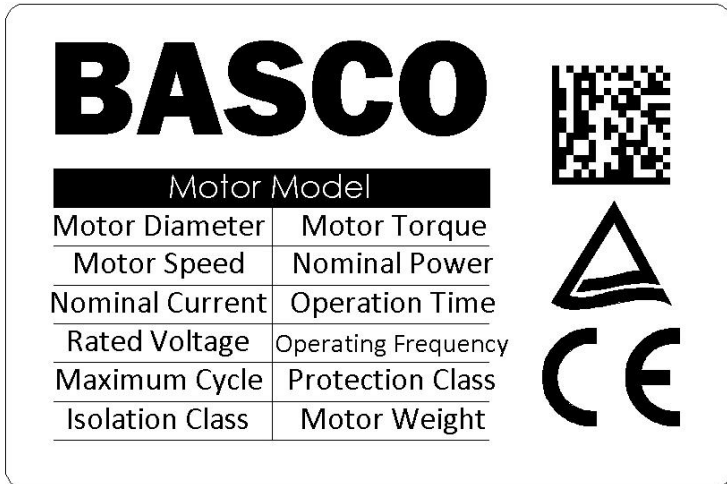
**This manual applies to the following products;**

- PMT35-00S, PMT35-01S
- PMT35-00R, PMT35-01R
- PMT35-00E, PMT35-01E
- PMT45-00S, PMT45-01S, PMT45-02S, PMT45-03S  
PMT45-04S, PMT45-05S, PMT45-06S
- PMT45-00M, PMT45-01M, PMT45-02M, PMT45-03M  
PMT45-04M, PMT45-05M, PMT45-06M
- PMT45-00R, PMT45-01R, PMT45-02R, PMT45-03R  
PMT45-04R, PMT45-05R, PMT45-06R
- PMT45-00E, PMT45-01E, PMT45-02E, PMT45-03E  
PMT45-04E, PMT45-05E, PMT45-06E
- PMT59-00S, PMT59-01S, PMT59-02S, PMT59-03S  
PMT59-04S
- PMT59-00M, PMT59-01M, PMT59-02M, PMT59-03M  
PMT59-04M




## 1. Product Introduction


Motor Systems consists of AC Motor or DC Motor, Gearbox, Capacitor, Receiver, Thermal Protection, Power Cable and Micro Switch. They used for curtain, shutter, awning, pergola etc.

## 2. Label Introduction



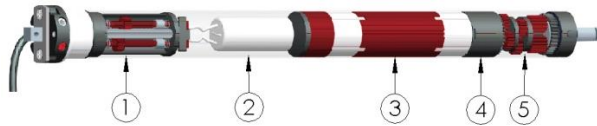
- 2.1. **Motor Model:** It is the expression of the motor model number.
- 2.2. **Motor Diameter:** It is the expression of the motor diameter value in “Millimeters”.
- 2.3. **Motor Torque:** It is the expression of the motor lifting capacity in “Newton Meter”.
- 2.4. **Motor Speed:** It is the expression of the number of laps the motor makes per minute in “rpm”.

- 2.5. Nominal Power:** It is the expression of the power drawn from the network by a motor operating at full load at rated voltage and working frequency in “Watt”.
- 2.6. Nominal Current:** It is the expression of the current drawn from the network by a motor operating at full load at rated voltage and operating frequency in “Ampere”.
- 2.7. Operation Time:** It specifies the maximum time the motor can run without stopping.
-  When this time is exceeded, the thermal protection in the motor becomes active and protects the motor against overheating. It takes 20 minutes to run the motor again.
- 2.8. Rated Voltage:** It is the expression of the voltage of the network that the motor will take its energy in “Volt”.
-  The motor must not be connected to a network with a voltage that is different from the rating voltage.
- 2.9. Operating Frequency:** It is the expression of the operating frequency of the motor in “Hertz”.
- 2.10. Maximum Cycle:** It is the expression of the maximum number of laps the motor can make in one direction.
-  In applications where the usage height is high, it is a feature that should be considered in terms of sufficiency.

- 2.11. Protection Class:** It is the expression of the ability of the motor to protect against granulated and water.
- 2.12. Isolation Class:** It is the expression of the insulation ability of the structure in the motor against the temperature.
-  It is an important feature for motors life cycle
- 2.13. Motor Weight:** It is expression of the weight of the motor in “kg” .

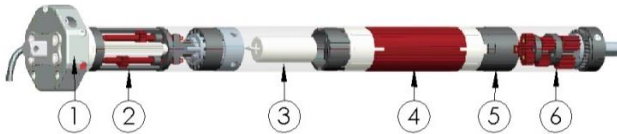
### 3. Product Components

#### 3.1. Standard Motor



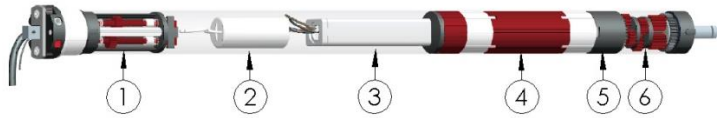
- 1 Limit Switch
- 2 Capacitor
- 3 AC Motor
- 4 Brake
- 5 Gearbox

#### 3.2. Manual Motor



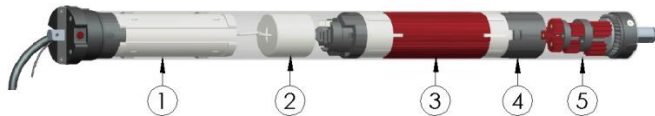
- 1 Manuel Base
- 2 Limit Switch
- 3 Capacitor
- 4 AC Motor
- 5 Brake
- 6 Gearbox

### 3.3. Receiver Motor



- 1 Limit Switch
- 2 Capacitor
- 3 Receiver
- 4 AC Motor
- 5 Brake
- 6 Gearbox

### 3.4. Electronic Motor



- 1 Electronic Limit + Receiver
- 2 Capacitor
- 3 AC Motor
- 4 Brake
- 5 Gearbox



For security, instructions must be followed on an individual basis. Please keep instructions.



These instructions are also available on the website.



The additional components required for installation come from within the product.



Installation should be done by experts.



Maintenance is not required.

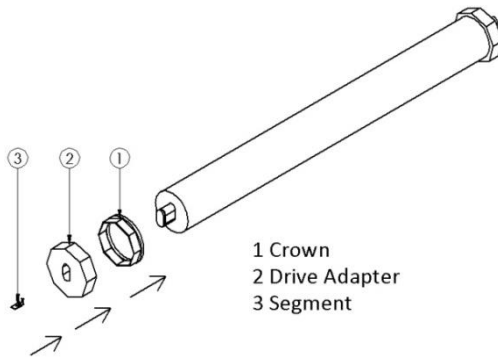


Sound power level < 70dBA

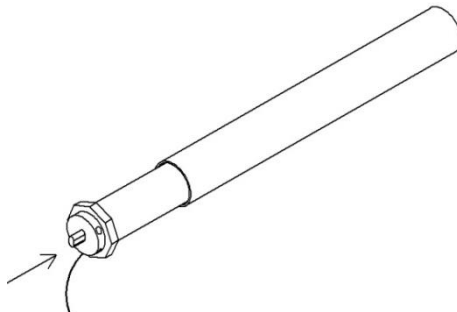



#### 4. Installation Instruction


- 4.1. Choose the correct shape and size of aluminum pipe taking into account the application area
- 4.2. Select the crown and drive adapter that are compatible with the motor and aluminum pipe diameter
- 4.3. Firstly assemble the crown to motor, and then assemble the drive adaptor to motor. After that, place a segment on the shaft end of the drive adapter.




- 4.4. Assemble the motor through the aluminum pipe. The cable end of the motor should stay out.

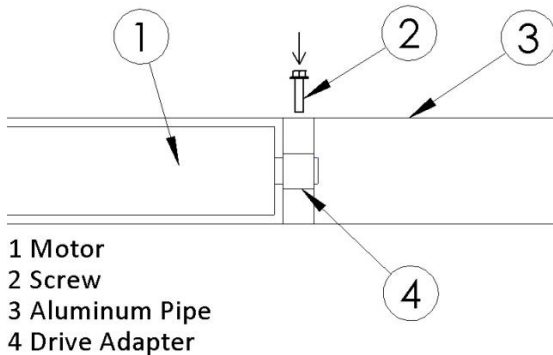



 Aluminum pipe and the crown on the motor should be tight.

 The distance between the inner surface of the aluminum pipe and drive adapter on the motor must not exceed 1 millimeter.

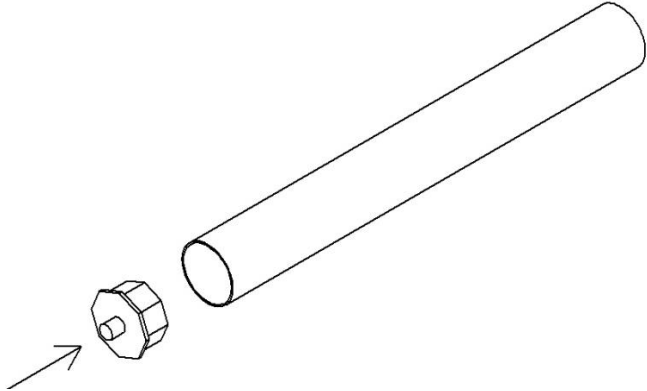
 The motor and the pipe must be absolutely parallel.

- 4.5.** In roller shutter and roller door applications, screw the drive adapter by throwing 2-4 screws to aluminum pipe from the outside.



 To find out the location of the drive adapter in the pipe, use the relevant motor technical sheet.

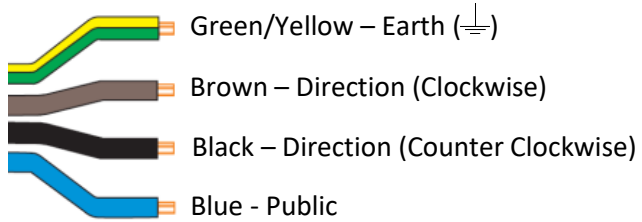
- 4.6.** Select an idler of the correct share and size taking into account the application conditions and assemble it to the other end of the pipe.



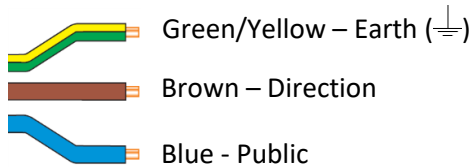
- 4.7.** Assemble the shading and protection materials (curtains, shutters, doors etc.) to pipe.
- 4.8.** Install the pipe in the application area with brackets.

## 5. Cable Connection Instruction

### 5.1. Standard and Manual Motor

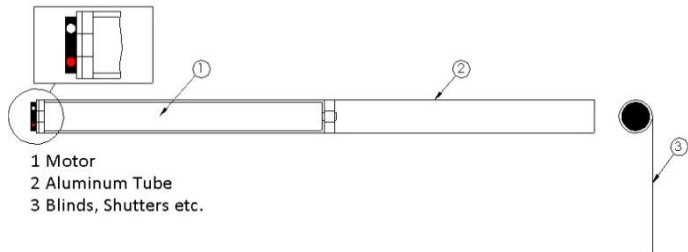


### Receiver and Electronic Motor



## 6. Limit Settings Instruction

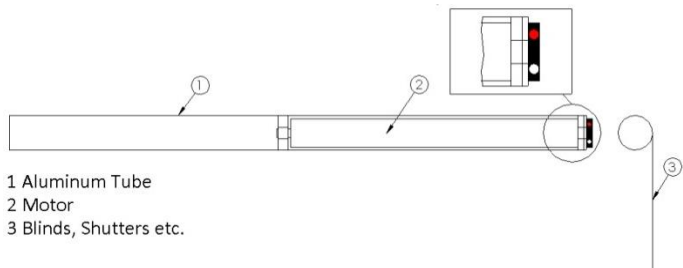
### 6.1. If Motor Position is Left Side of the Tube When Viewed From the Front



- 6.1.1.** The red keyhole should be turned clockwise to increase the lower limit point downwards, i.e. to allow the shading and protection material (curtain, shutter etc.) used in the application to descend further downwards.
- 6.1.2.** The red keyhole should be turned counterclockwise to reduce the lower limit point downwards, i.e. to reduce the shading and protection material (curtain, shutter etc.) used in practice to a lesser point down and to stay at a higher point.
- 6.1.3.** The white keyhole should be turned clockwise to increase the upper limit in the upward direction, i.e. to increase the shading and protection material (curtain, shutter etc.) used in the application more upward.
- 6.1.4.** The white keyhole should be turned counterclockwise to reduce the upper limit in

the upward direction, i.e. the shading and protection material (curtain, shutter etc.) used in practice is less upwards and stops at a lower point.

## 6.2. If Motor Position is Right Side of the Tube When Viewed From the Front



- 6.2.1. The white keyhole should be turned clockwise to increase the lower limit point downwards, i.e. to allow the shading and protection material (curtain, shutter etc.) used in the application to descend further downwards.
- 6.2.2. The white keyhole should be turned counterclockwise to reduce the lower limit point downwards, i.e. to reduce the shading and protection material (curtain, shutter etc.) used in practice to a lesser point down and to stay at a higher point.
- 6.2.3. The red keyhole should be turned clockwise to increase the upper limit in the upward direction, i.e. to increase the shading and

protection material (curtain, shutter etc.) used in the application more upward.

- 6.2.4.** The red keyhole should be turned counterclockwise to reduce the upper limit in the upward direction, i.e. the shading and protection material (curtain, shutter etc.) used in practice is less upwards and stops at a lower point.

### **6.3. Electronic Motor Limit Settings**

#### **6.3.1. Limit Settings Installation**

- 6.3.1.1.** Power up
- 6.3.1.2.** Press P2 button once
- 6.3.1.3.** Motor beeps once
- 6.3.1.4.** Press up button once
- 6.3.1.5.** Motor beeps once
- 6.3.1.6.** Press P2 button once
- 6.3.1.7.** Motor continuously beeps many times, clockwise and counter-clockwise rotation as a hint
- 6.3.1.8.** Press up button once
- 6.3.1.9.** The motor moves upward, you can press P2 button to enter step-moving status
- 6.3.1.10.** To the right position press stop button once
- 6.3.1.11.** Long press stop button 5s

- 6.3.1.12. Motor continuously beeps many times, clockwise and counter-clockwise rotation as a hint
- 6.3.1.13. The up limit setting is okay
- 6.3.1.14. Press down button once
- 6.3.1.15. The motor moves downward, you can press P2 button to enter step-moving status
- 6.3.1.16. To the right position press stop button once
- 6.3.1.17. Long press stop button 5s
- 6.3.1.18. Motor continuously beeps many times, clockwise and counter-clockwise rotation as a hint
- 6.3.1.19. The down limit setting is okay

**6.3.2. Deleting Limit Settings**

- 6.3.2.1. Power up
- 6.3.2.2. Press P2 button once
- 6.3.2.3. Motor beeps once
- 6.3.2.4. Press down button once
- 6.3.2.5. Motor beeps once
- 6.3.2.6. Press P2 button once
- 6.3.2.7. Motor continuously beeps many times, clockwise and counter-clockwise rotation as a hint
- 6.3.2.8. Limit settings have been deleted.

**6.3.3. 3. Limit Settings**

- 6.3.3.1. Roller blind run to the 3. Limit setting position



**6.3.3.2.** Press stop button 3 times (Long press is invalid)

**6.3.3.3.** Motor continuously beeps many times, clockwise and counter-clockwise rotation as a hint

**6.3.3.4.** The third limit point setting is okay

**6.3.3.5.** If press stop button 2s, the motor run to the third limit position

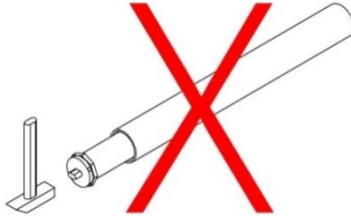
**6.3.3.6.** To cancel the third limit position press stop button 4 times (Long press is invalid)

**6.3.4. Motor Limit Button**

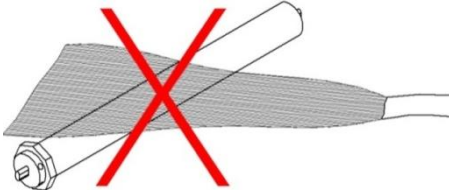
**6.3.4.1.** To reserve of direction Long press motor limit button 5s

## 7. Warnings

- 7.1. Do not use a hammer when mounting the motor to a tube.



- 7.2. Do not spray water on the motor.



- 7.3. Do not do anything on the motor with the drill.



- 7.4. Do not allow children to use.
- 7.5. It must not be used by persons (including children) who have physical or mental discomfort.
- 7.6. It can be used by children over the age of 8 and persons with physical or mental disabilities who are

**informed about the safe use of the device and the related hazard situations.**

**7.7. During installation, the imbalance, wears, or damage to the cables and springs must be checked. If repair or adjustment is necessary, it must not be used.**

**7.8. The cleaning and maintenance of the appliance must not be done by children.**

## **8. Problems and Solutions**

**8.1. After the power is applied to the system, the motor does not move when the controller is pressed**

**8.1.1.** The controller may not work. In this case, the remote controller's battery must be replaced.

**8.1.2.** The controller and receiver may not be matched. In this case, the matching operation must be done with the help of the user manual given to the controller.

**8.2. When any one of the direction buttons of the controller is pressed, the system moves in the opposite direction of the pressed button**

**8.2.1.** Cable connections may be reversed. In this case, the connection points of brown and black cables should be changed.

**8.3. After power is applied to the system, the system can only move in one direction**

**8.3.1.** The key to the other movement can be switched off. In this case, the crown must be rotated in the direction of rotation of the drive adapter.

**8.4. Motor is not working or slow running after power is applied to the system**

**8.4.1.** The line voltage may be low. In this case, the line voltage must be set to the rated voltage.

**8.4.2.** Cables could be a problem. In this case the cables should be checked.

**8.4.3.** The system may be loaded with more load than the motor can lift. In this case, according to the "Technical Support" section of the catalog, torque balance must be made and the amount of load must be regulated.

**8.4.4.** The assembly may have been made incorrectly. In this case, the installation of the system should be done again.

**8.5. Non-stop operation of the system, and not stopping at set limits**

**8.5.1.** The drive adapter may not be properly secured. In this case, the drive adapter and the aluminum tube should be fixed correctly with each other.

**8.5.2.** The drive adapter may be pierced. In this case the drive adapter must be replaced.

**8.6. Motor sudden stop when system is running**

**8.6.1.** The motor has been running continuously for a longer period of time than indicated on the label and may have been subjected to thermal protection to avoid damage. In this case, the

motor must be cooled for at least 20 minutes before starting again.

**8.7. Motor shutdown while the system is running and the limit position cannot be increased in the current operating direction**

- 8.7.1.** The range of the motor's limit positions may have reached the maximum point. In this case, the motor must be removed from the tube and the crown on the motor should be rotated a few turns in the opposite direction of the current operating direction. Then the motor can be remounted and the limit position can be adjusted.

**9. Warranty Conditions**

- 9.1.** The warranty period starts from the date of delivery and is 2 years.
- 9.2.** Including all parts of the good, provided that it has not been tampered with by maintenance, repair or other reasons by persons other than the practicing and using person in a manner not incompatible with the material contained in the manual for use of the goods; Material, workmanship and production defects for the period specified above from the date of delivery of the goods.
- 9.3.** In the event of malfunction within the guarantee period, the fault must be reported to the practitioner. The repair period is maximum 20 working days. This period begins from the date of

the application notification of the malfunction related to the goods.

- 9.4. The responsibility of giving the warranty certificate to the consumer is the responsibility of the authorized dealer or practitioner to whom the consumer purchases the goods.
- 9.5. Warranty is invalid if the original barcode on the product is tampered with. The warranty period will be monitored from the barcode.
- 9.6. **The defective device will not be covered under the following conditions:**
  - 9.6.1. Defects from external equipment connected to the device (regulator, uninterruptible power supply, etc.)
  - 9.6.2. Malfunctions due to abnormal voltage drop or excess, faulty electrical installation, connection to a different mains voltage specified on the device label,
  - 9.6.3. Defects that may occur after the delivery of the goods and after the placement (drop, excessive shock, impact etc.)
  - 9.6.4. Distortion, scratches, breaks and defects on the outer and inner surfaces which are caused by the usage mistakes of the device,
  - 9.6.5. Defects caused by nature events (lightning, , earthquake, fire etc.).

# WARRANTY DOCUMENT

## Product

Model and Quantity \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Dealer

Name \_\_\_\_\_

Address \_\_\_\_\_  
\_\_\_\_\_

Tel \_\_\_\_\_

Stamp & Signature

## Customer

Name \_\_\_\_\_

Address \_\_\_\_\_

Tel \_\_\_\_\_

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