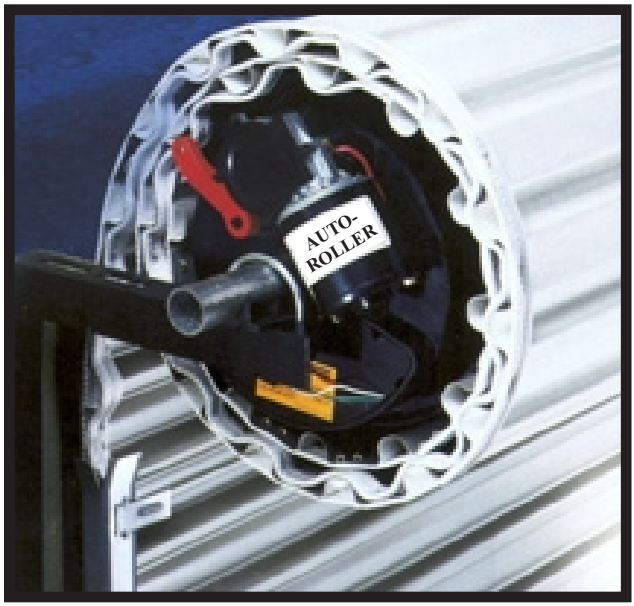
# www.AUTO-ROLLER.co.za

# INSTALLATION MANUAL



**Notice.**

**Please read these instructions carefully before installing the Rolling Door motor**

1. The motor must be installed and operated by a professional.
2. Make sure there is power available.
3. Don't take the motor apart privately, if necessary please do it at the local sales agent.
4. Don't let children operate the door or the remote control transmitter. This unit should not be installed in a damp or wet space and should also be out of the reach of children.
5. The space between the rail of the metal door and the controller box should be 150mm.
6. The battery in the remote control transmitter should be replaced after one year.
7. If there is something wrong with the motor, please take it in to your local sales agent.
8. If the motor is installed, do not engage the manual lock of the door.

**Installation instruction**

1. Don't let the door directly impact on the ground .
2. The door where the motor is installed should be well balanced, if not, the door won't operate easily by hand.
3. Warning: when the door is being installed, please make sure that there are no children and worthy belongings nearby.

**Warrantee**

The Auto-Roller garage door motor is manufactured with extreme care, thoroughly inspected and tested. The motor is warranted against faulty materials or workmanship for a period of 12 months from the invoice date or 12 months from the manufacturing date (as shown on the gearbox of the motor) which ever expires first.

The warrantee will cover the repair or replacement of such faulty materials or parts at our discretion free of charge, provided that the equipment is returned to our workshop.

The warrantee only applies to the gearbox, motor, controller and other fixed components of the motor.
Loose components such as external receivers, remotes and other ancillary devices connected to the motor, carry the warrantee provided for these components by their own manufacturers.

The warrantee will not apply to any motor which:

1. Has been subject to misuse or which has been used for any other purpose other than designed for by Auto-Roller;
2. Has not been installed in accordance with the installation instruction provided;
3. Has damage caused as a result of handling during transit, atmospheric conditions, insect infection, power surges or any other forces out of our control;
4. Has been repaired by any workshop and/or person previously authorized by Auto-Roller;
5. Has been repaired with components not previously tested, passed or authorized by Auto-Roller;
6. The motor was operated while the door was manually locked.

**Auto close dipswitch.**
Are used to activate and deactivate auto close (ref fig 1).
Dipswitch “1” in on position auto close is activated.
Dipswitch “1” in off position auto close is deactivated.

**Right hand and left hand installation**
Are used to set the direction of the motor (ref fig 1).
Dipswitch “2” in on position is for right hand installation.
Dipswitch “2” on off position is for left hand installation.

**Down force screw (sensitivity)**
Is used to change the down force pressure required to make the door go down, if the door encounters an obstruction (ref to fig 1).

**Up force screw (sensitivity)**
Is used to change the up force pressure required to make the door go up, if the door encounters an obstruction (ref to fig 1).

**Always start the sensitivity at the lowest and set up as required**

**Program LED**
Signals the stages the transmitter code learning process.

**Radio receiver**
Processes the signal from the remote control transmitter.

**Auto courtesy light**
Is activated automatically each time the motor is activated and stays on for approx. 120 seconds.

**Open limit cam**
Is used to adjust the open limit stop position.

**Close limit cam**
Is used to adjust the close limit stop position.

**Open limit micro switch**
Is used to stop the door in the fully open position.

**Close limit micro switch**
Is used to stop the door in the fully close position.

**Engage/disengage lever (Manual Release Lever)**
Alternatively engages/disengages the motor from the door.

**External push button**
Alternatively opens, closes or stops the door when activated.

## *TECHNICAL DATA*
## *TECHNICAL DATA OF THE OPENER AND CONTROLLER*

| | | |
|---|---|---|
| Power | | 220v +-10% |
| Input power | Max input current | <0.07A |
| | Max consumption power | <10w |
| | Power | |
| Max torque | | 91.6N.m |
| Braking torque | | >19N.m |
| Limited journey of | 12M | |
| The open/close | | |
| Protect time of | | <32sec |
| The open/close | | |
| Model of receiver | uhf 433 mhz | |
| | | Ask receiver |
| Transmitter | frequency quantity of | 433 mhz |
| | The code voltage of the | 300 thousand |

### *Coding the remote control transmitters*

1. Remove remote controllers from packing boxes.
2. Remove the cover from the control box by pulling on the edge.
3. Locate the program button and the push button dipswitches on the control board. (see fig.1)
4. Select and switch on one push button dipswitch (1-4) on the control box of the motor to program the first button of the remote to the receiver.
5. Press the program button on the built in receiver for 1 second and release the LED will flash once. (see fig.1)
6. Press the button on the remote for 1 second and the LED will flash once. Then release the button.
7. To program the other remote repeat steps 5-6.
8. If you have more than one motor each motor control box has to be set on a different push button dipswitch to program the remote to the receiver.

### *Deleting previous codes*

1. Remove all the power from the motor.
2. Press and hold down the program button of the receiver.
3. Switch the power back on, but keep the program button depressed.
4. Keep the button depressed until the LED goes out.
5. Release the button once the LED is off.
6. All the previous codes should now be erased.

### *Installing External Receiver*

1. Locate connections on main control board and receiver (ref fig.1).
2. Connect positive from receiver to positive (+24) on main control board.
3. Connect negative on receiver to negative on main control board.
4. Connect common from receiver to push button on main control board.
5. Connect normally open (n/o) from receiver to push button on main control board.

***Installation on the Krazi door and others where the door drum is more than 135mm from the centre shaft support bracket.***

1. Release the engage/disengage lever on the motor so that the motor runs free.
2. On the door support bracket carefully remove the door support hook
3. Carefully lift up the door and slide the motor over the centre shaft of the door. (fig.6)
4. Put the door back and refit the door support hook
5. Close down the door so that the motor is visible.
6. Move the motor over the centre shaft and hook securely on the drum wheel of the door
7. Fit and secure the u-bolt, make sure it is fully tightened. The motor must be steady.
8. Make sure the tension of the springs are correct before installing the motor.
9. Use Tek screw to secure u-bolt bracket to centre shaft of garage door and make sure the motor does not move.

***Installation on Wispeco and others where the drum wheel door is less than 135mm from the centre shaft support bracket.***

1. Release the engage/disengage lever on the motor so that it runs free.
2. Make sure that there is enough space for installing the opener. It is required that the minimum distance from the shaft end to the wall is 135mm.
3. Please check carefully if the u-bolt on the other side of the door locks the centre shaft tightly or not. If not, carefully tighten it.
4. Move the door up and use one piece of rope to bind the door tightly in the middle . (ref fig 5)
5. Use backstop to uphold the door at the motors end. Please note that on the top of the backstop there must be some soft support to protect the surface of the door (ref to fig.5).
6. To check if step 5 is finished, remove and move away the u-bolt carefully.
7. Move the bracket away from the wall. Before doing this, please make sure that the backstop can uphold the door safely and securely.
8. Take the motor out of the box, put the motor along the centre shaft into the wheel of the door. Make sure that the two fox clips lock the narrowest spoke tightly and get into the plastic drum wheel fully.
9. Re install the bracket, if necessary check orientation.

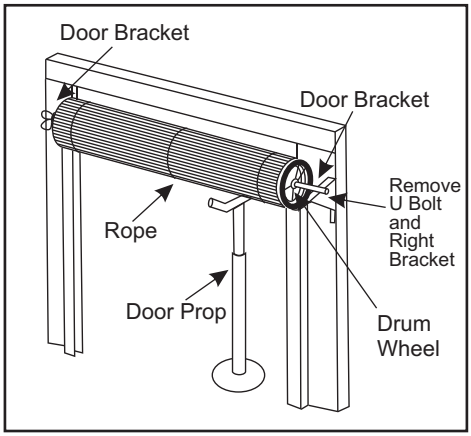



Fig. 5

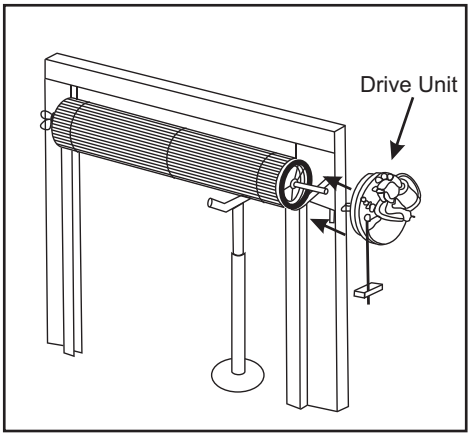



Fig. 6

***Recommended dimensions:***

The distance from the edge of the door to the inside of the bracket should be greater than 110mm. The distance from the edge of the door to the outside of the bracket should be greater than 160mm (ref to fig 3).

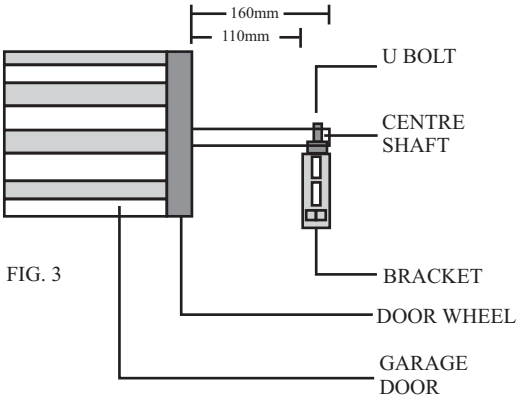


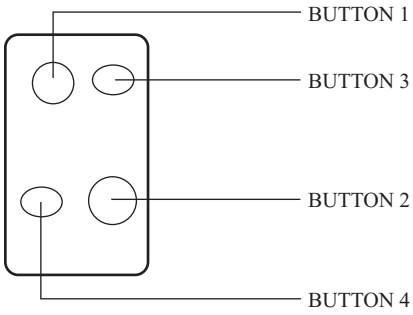

FIG. 3

***Door elasticity adjustment***

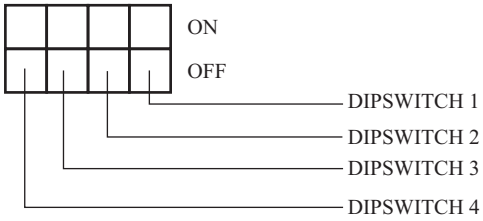
Use box spanner to lock centre shaft to adjust the door elasticity, make the door the closing/opening force balance, then tighten the u-bolt on the centre shaft. Make sure that the door will slide smoothly in the rail and will stop automatically at the place 90mm-120mm above the surface. Make sure that the rising or descending force will not be more than 20kg.

***FOUR BUTTON REMOTE TRANSMITTER***

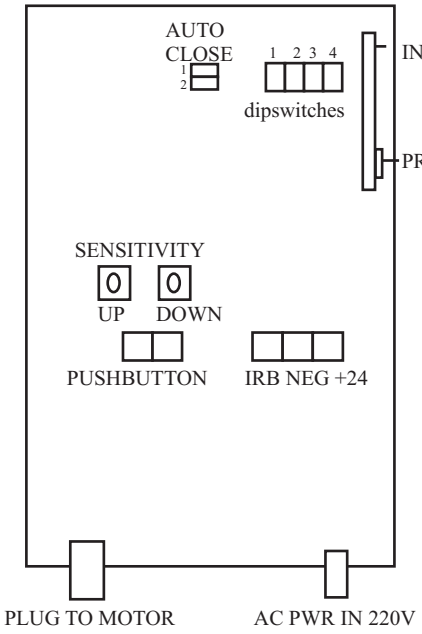
***FIG.15***




***DIPSWICHES ON CONTROL BOARD (REF. TO FIG. 1)***



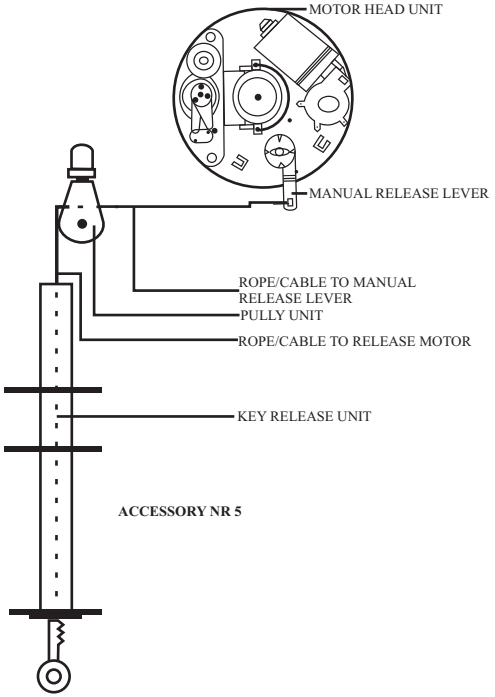
## *MAIN CONTROL BOX (FIG. 1)*




Press Program Button for 1 sec.
LED on receiver will flash once.
Press button on Remote and LED will flash once again.
Now Remote is learned.
To program other Remotes, repeat the steps above.

*Remember to turn auto close off*

## *FIG. 10 + ACCESSORIES (NOT SUPPLIED)*




1. Drill 20mm hole through wall next to door, eye level on the side where the motor is situated.
2. Insert the key release unit in drilled hole.
3. Tighten lock screws so that unit is firmly and secure in its place.
4. Connect cable to engage/disengage lever on roller motor.
5. Mount the pully to the side of the centre shaft and pull the key release cable from the motor through the pully for smooth movement.

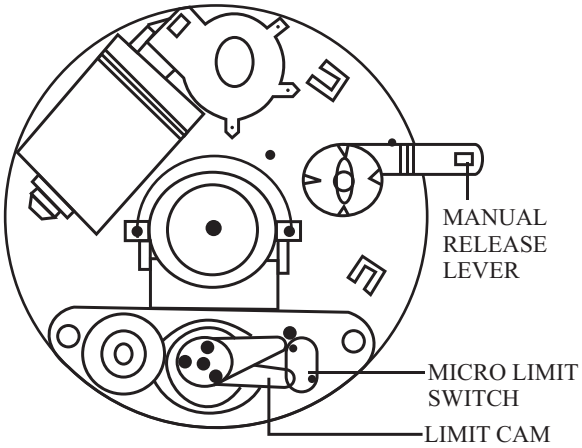
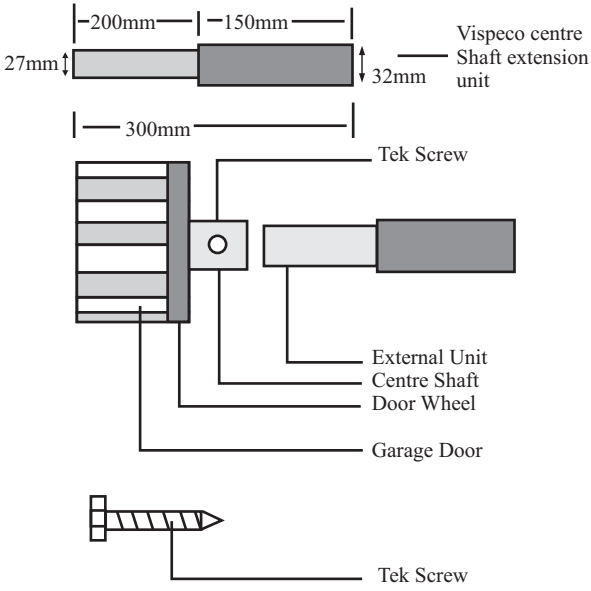



FIG. 12

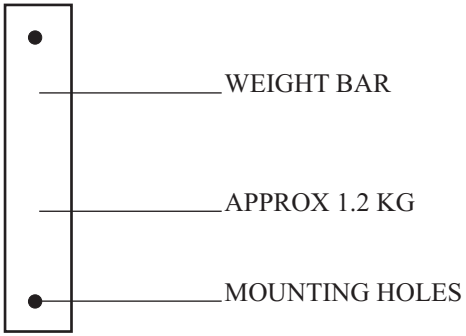
***Accessory nr 1***

1. The Wispeco centre shaft is used mainly on Wispeco doors.
2. The centre shaft unit is used for extenting the centre shaft of the door, so that you can fit the motor if the centre shaft is too short.
3. Move the unit fully into the centre shaft (ref to acc 1).
4. Use tex screw that is provided to secure the unit to the centre shaft.
5. Make sure the dimensions are correct (ref to fig 3).

***WISPECO EXTENSION SHAFT ACCESSORY 1 (OPTIONAL)***



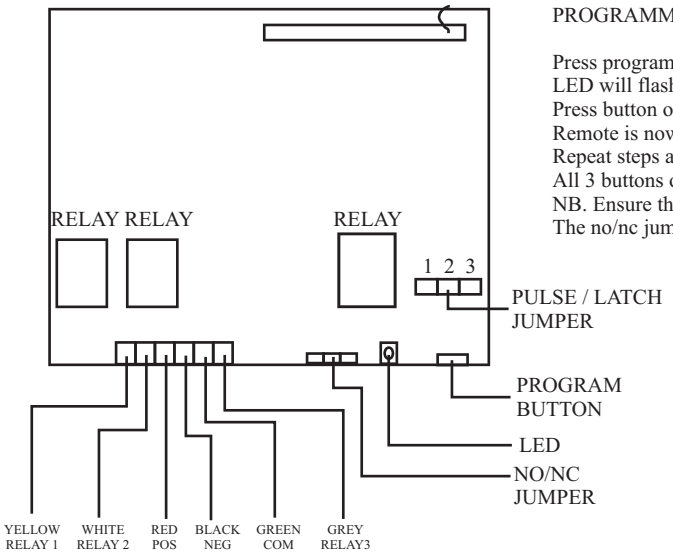
## *AUTO ROLLER WEIGHT BAR*
## *ACCESSORY 2 (NOT SUPPLIED)*




**Fixing of Weight Bars**

Weight Bars are usually only based on very light weight doors, their main purpose is to eliminate the chance of the door balooning on start up from the fully open position. If the door baloons on initial start up after installing the new motor, we recommend that you fit 1 or 2 weight bars on the bottom edge of the door.

## *EXTERNAL RECEIVING (NOT SUPPLIED)*




PROGRAMMING RECEIVER

Press program button for 1 second and release.
LED will flash once.
Press button on remote for 1 second and release.
Remote is now learned.
Repeat steps above to learn other remotes.
All 3 buttons on remote will be programmed.
NB. Ensure that pulse jumper is in 2 & 3.
The no/nc jumper is always on : no (normally open)

## ***Fault finding***

***Door will not operate from***

**A) control box**

1. Check power is on to control box (red LED is on).
2. **If not**, check mains plug and fuse.
3. Plug fully engaged on top of control box.
4. Motor wiring connections properly engaged.
5. Manual release lever in engage position.
6. Limit cams correctly set i.e. Upper limit for fully open position and lower limit switch for fully close position.
7. Move door half way and try again.
8. Try operation with remote transmitter.

**B) remote control transmitter**

1. Check door operates correctly by using the push button on the control box.
2. Try recoding transmitter.
3. Check battery in transmitter is correctly fitted, LED should illuminate.
4. Try new battery.
5. Move aerial manually and try in different orientations, keeping it away from steel and power cables.

**Door operates but fails to fully open or reverse before closing**

1. Check manual operation for correct balance, if not adjust if necessary.
2. Spray lubricant spray on tracks***, not grease.***
3. Check/adjust safety sensitivity setting.
4. Check limits.

***Bang hard on track stops when fully open***

1. Check top limit switch.
2. Adjust if necessary.

**Bang hard on ground and reverse when fully shut**

1. Check bottom limit switch setting.
2. Adjust if necessary.

***Door fails to travel down from open position motor runs and roller door baloons.***

1. Check door have smooth line of entry into tracks, as near as vertical possible.
2. Check door tension is not to great, reduce door tension if necessary. If the above don't cure the problem the door may require a weight bar to be fitted.

***Short range remote control***

1. Remote should give minimum of 6m range.
2. Check battery is correctly fitted in transmitter.
3. Try new battery.
4. Move aerial in different orientations, keeping away from steel and power cables.

***Door operates but fails to fully open but reverse to closed position.***

1. Change motor wire (spade connectors ref to fig 1).
2. Reset limits.
3. Readjust sensitivity adjustment.

***Power failure***

To disengage- pull manual release lever downwards (ref to fig 12).
To engage- pull manual release lever downwards (ref to fig 12).

***Client Copy***

Fax:0866069565
Mail:autoroller@telkomsa.net
Tel:0861-114-114

**Warrantee Registration Auto-Roller Motor**

This portion to be returned to Auto Roller with in 10 days

Dealer Stamp

Model

Serial No.: .....

Control Card: .....

Date: .....

Purchased By:

Name: .....

Address: .....

***Send to:***

Fax:0866069565
Mail:autoroller@telkomsa.net
Tel:0861-114-114

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