

INSTRUCTION FOR TUBULAR MOTORS

NZ0, NZ1 and NZ2 series

IMPORTANT SAFETY INSTRUCTION FOR INSTALLATION WARNING—INCORRECT INSTALLATION CAN LEAD TO SEVERE INJURY FOLLOW ALL INSTALLATION INSTRUCTIONS

I. INSTRUCTION:

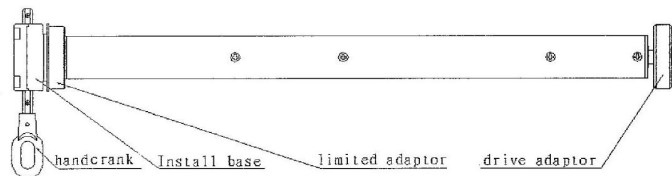
These products are used as electric drives and auto controls for shutters, rolling doors, awnings or allied mechanisms. Motor complete has features of compact structure, easy operation, convenient installation and reliable performance, and applies to residences, shops, hotels and garages, and so on.

II. WARNINGS:

1. Motor installation and adjustment should be operated by professional staff.
2. before installation, please check whether drive parts have good mechanical action and balance and the action of open and close.
3. Motor installation should be correct and firm, and shutter should move in its rail freely, without any hindrances.
4. Position of button box should be at the height of 1.5m, and all wires should keep away from any shutter's movable parts while installing and working.
5. Electrical outlet should collocate earth jack and be reliably connected to the earth.
6. For installation for awnings, a horizontal distance of at least 0,4m is to be maintained between the fully unrolled driven part and any permanent object.
7. The rated torque and operating time require must be calculated when selecting a motor to be used in a blind, awning or shutter.
8. Install an omnipolar isolating switch upstream with a minimum contact opening space of 3.5mm
-Safety devices such as photocells or safety edge should be fitted.
For motors with manual override equipped, the operating component is to be installed at a height less than 1.8m.
9. PVC type H05-WF cables must be installed inside unless they are protected by conduit or trunking which is sun resistant.
10. Examine the installation at regular intervals. Do not use the installation until any faults have been rectified.
11. Do not allow children to play with any of the controls or on the end product.
12. When motor is working, the 400mm section in the middle of motor is high-temperature, so the wire and the middle section should be separated when install the motor.
13. The switch (for control) should be button switch.
14. When operate the motor by switch, ensure that no people are next to door/shutter until closed completely.
15. Before carrying out any form of maintenance, isolate the power to the motor and or controls.

III. STRUCTURE:

1. Tubular structure, directly insert motor complete into roller/barrel, and pass torque onto roller/barrel through drive collar/adaptor to drive rolling doors or allied mechanisms up and down.
2. Optionally set the travel of shutters or rolling doors through travel controller.
3. Under failure of power, tubular motor with manual device, whose model name has a letter of M, can drive rolling doors or allied mechanism up and down by turning handcrank.
4. Structure Scheme: (Fig. 1 and Fig. 2)



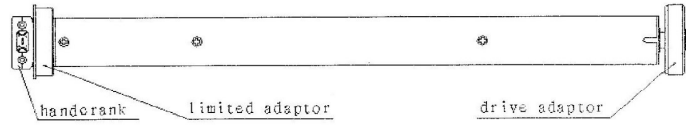


Fig. 2 Non-handcrank Version

IV. INSTALLATION:

1. Ensure that supplied power is in accordance with requested working power.
2. Check dimensions and shapes of limit collar/adaptor and drive collar/adaptor both in accordance with roller/barrel or not.
3. If roller/barrel is round, process a keyway at the end of it to ensure that travel controller can work normally; if roller/barrel is not round, directly inserting motor into it is ok.
4. Tightly connect drive collar/adaptor with roller/barrel by bolts after motor complete has been put into roller/barrel to ensure that drive system can work normally.
5. While installing, ensure that running axes of roller/barrel is vertical to shutter's rail and parallel to the horizontal. Fixed boards on both ends should be reliably connected with mounting face to prevent from releasing.
6. Mounting Scheme: (Fig. 3)

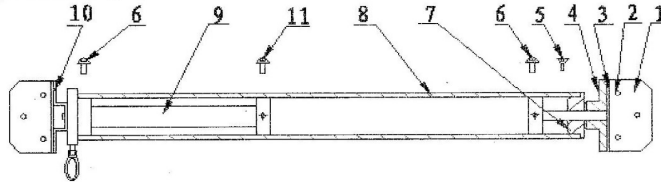


Fig. 3

1. Fixing Board 2. Bolt 3. Bearing 4. Bolt
 5. Bolt 6. Bolt 7. Stopper 8. Roller/Barrel
 9. Tubular Motor 10. Fixing Board 11. Bolt

7. Push button to start shutter and check its up and down movements are normal or not.
8. If the direction of movement is not in accordance with direction instruction on button box, exchange brown wire and black wire.

V. WIRING DIAGRAM: (Fig. 4)

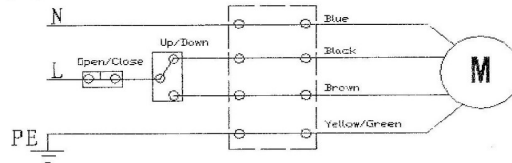


Fig. 4

VI. LIMIT TRAVEL SETTING:

1. Customers can adjust and set the positions of top and down limits by themselves.
2. According to motor rotating direction and adjusting instructions, insert travel limit pole into its travel limit hole to adjust limit travel: the direction of "+" is increasing shutter's travel; the direction of "-" is decreasing shutter's travel. (Fig. 5)

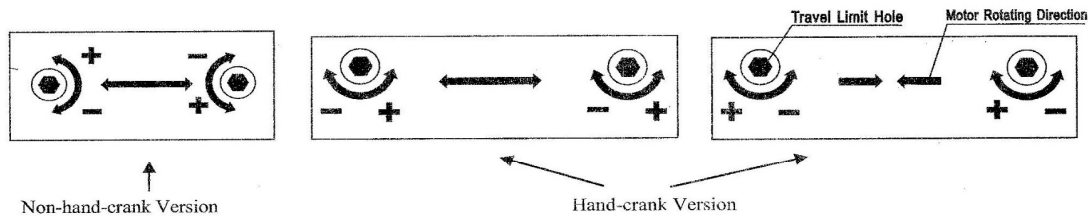


Fig. 5

After setting limits, start shutter to go up-and-down, and check travel limit position suitable or not. If not, re-set them.