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# USER OPERATING INSTRUCTIONS

**ZAP 800 and 8800 Series 3 Commercial Door Shaft-Mounted Motor Operators**

**Tucker ZAP PATENT NUMBER / TITLE / REGISTRATION DATE:**

USA 8,182,381 | Drive arrangement | May 22, 2012

USA 8,115,438 | Aperture closure member control arrangements | Feb. 14, 2012

USA 8,033,374 | Drive arrangement | Oct. 11, 2011

USA 7,633,253 | Control and monitoring arrangements for an aperture closure member | Dec. 15, 2009

USA 7,437,971 | Drive arrangement | Oct. 21, 2008

USA 7,333,308 | Control arrangement | Feb. 19, 2008

USA 7,005,884 | Monitoring apparatus for monitoring electrical drive current for an electric motor | Feb. 28, 2006

USA 6,188,198 | Aperture closures | Feb. 13, 2001

Mexico 243645 | Aparato de monitoreo | Feb. 6, 2007

Canada 2445152 | Monitoring apparatus | June 25, 2013

Canada 2440772 | Control arrangement | June 21, 2011

Canada 2560530 | Drive arrangement | May 21, 2013

Canada 2641641 | Aperture closures | April 26, 2011

Canada 2445123 | Drive arrangement | Feb. 16, 2010

Canada 2338191 | Aperture closures | Dec. 30, 2008

# IMPORTANT- SAFETY INSTRUCTIONS

**WARNING: - To reduce the risk of severe injury or death**

- 1. READ AND FOLLOW ALL INSTRUCTIONS**
- 2. Never let children operate or play with door controls. Keep the remote control (where provided) away from children.**
- 3. Personnel should keep away from a door in motion and keep the moving door in sight until it is completely closed or opened. NO ONE SHOULD CROSS THE PATH OF A MOVING DOOR.**
- 4. Test the door's safety features at least once a month. After adjusting either the force or the limit of travel, retest the door operator's safety features. Failure to adjust the operator properly may cause severe injury or death.**
- 5. Where possible use the Manual Override Release Lever only when the door is closed. Use caution when using this release when the door is open. Weak or broken springs may cause the door to fall rapidly, causing severe injury or death.**
- 6. KEEP DOORS PROPERLY OPERATING AND BALANCED. See Door Manufacturer's Owner's Manual. An improperly operating or balanced door could cause severe injury or death. Have a trained door systems technician make repairs to cables, spring assemblies, and other hardware.**

# IMPORTANT- MESURES DE SÉCURITÉ

## AVERTISSEMENT: - Pour réduire les risques de blessures mortelles

1. **LISEZ CETTE NOTICE ET CONFORMEZ-VOUS AUX MISES EN GARDE**
2. **Ne laissez jamais les enfants manoeuvrer les commandes de la porte. Ne laissez pas la télécommande à portée des enfants.**
3. **Surveillez la course de la porte jusqu'à ce que cette dernière soit complètement fermée en veillant à tenir à l'écart toute personne et tout objet avoisinant. IL NE FAUT JAMAIS PASSER EN-DESSOUS D'UNE PORTE EN MOUVEMENT.**
4. **Vérifiez l'équipement de sécurité de la porte au moins une fois par mois. Après avoir ajusté la vitesse ou la distance de la trajectoire, vérifiez de nouveau l'équipement de sécurité de la porte. Omettre d'ajuster la fixation en conséquence peut causer des blessures graves ou mortelles.**
5. **Dans la mesure du possible, ne déclenchez le dispositif de désaccouplement que lorsque la porte est fermée. Usez de prudence si vous déclenchez le dispositif lorsque la porte est ouverte; Un ressort affaibli ou cassé peut entraîner une descente brutale de la porte et causer des blessures mortelles.**
6. **ASSUREZ-VOUS QUE LA PORTE DE GARAGE EST CORECTEMENT ÉQUILIBRÉE. Une porte mal équilibrée peut causer des blessures graves. Confiez la réparation des câbles, des ressorts et de tout autre élément à un technicien qualifié.**

## ZAP MOTOR-CONTROL SYSTEMS FOR COMMERCIAL DOORS

The system includes model 800 or model 8800 wall-mounting Control Unit with case mounted control buttons, Jackshaft Motor Operator and Manual Override kit.

### MOTOR-CONTROL UNITS

#### MODEL 800

The model 800 Control Unit will power doors up to 12 square metres (130 square feet) in conjunction with series 800 Motor Operator.



#### Model 800 Motor Operator

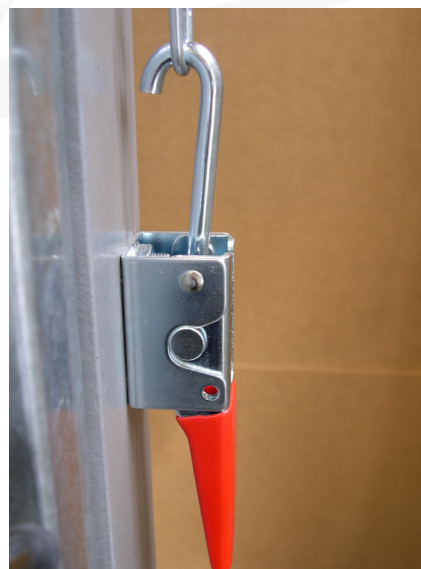
#### MODEL 8800

The model 8800 Control Unit will power doors up to 26 square metres (280 square feet) in conjunction with a series 8800 Motor Operator.



### Model 8800 Motor Operator MANUAL OVERRIDE RELEASE

The Manual Override drive release mechanism includes a doorframe or track mounted over centre lever, which is connected to the operator by a Bowden cable. The screw hook on the lever provides adjustment of the V-belt tension.



#### Manual Override Release Lever

## **ZAP COMMERCIAL DOOR MOTOR-CONTROL SYSTEM**

Following installation and commissioning by a qualified technician the power supply should be, when possible, left permanently connected.

If any work is to be carried out on the door or installation then the main power supply should be isolated.

## **USING YOUR ZAP COMMERCIAL DOOR MOTOR-CONTROL SYSTEM**

**NOTE:** A safety photo-electric sensor may be fitted to operate in conjunction with the control system. If a safety photo-electric sensor is fitted it must be correctly installed and aligned. If it is out of alignment it will prevent the door closing other than by Dead-Man operation (continual depression) of the CLOSE button.

The system may be operated by any of the following items:

1. Model 800 and 8800 Control Unit push buttons. Operation is as follows:

Press and hold either the upper OPEN or lower CLOSE push button until the door starts to move.

Note that if a photo-electric sensor has not been installed across the doorway then the close function will only operate in Dead-Man (press and hold to run). The door will stop if the CLOSE button is released.

2. ZAP Radio Transmitter, if fitted. Operation is as follows:

Press and hold the transmitter button until the door starts to move.

Note that if a photo-electric sensor has not been installed across the doorway then the door can not be closed by remote control.

3. Accessory Radio Transmitter (non-ZAP), if fitted. Operation is as follows:

Press and hold the transmitter button until the door starts to move.

Note that if a photo-electric sensor has not been installed across the doorway then the door can not be closed by remote control.

## CONTROL UNIT OPERATION

1. If the door is open and the CLOSE button is pressed, the door will close.
2. If it is closed and the OPEN button is pressed it will open.
3. If the door is opening and the STOP button is pressed it will stop.
4. If the door is closing and the STOP button is pressed it will stop.
5. If the door is physically obstructed while it is closing it will stop and reopen.
6. If the door is physically obstructed while it is opening it will stop.
7. If the beam from the safety photo-electric sensor (if fitted) is obstructed while it is closing it will stop and reopen.
8. If the beam from the safety photo-electric sensor (if fitted) is obstructed or damaged while the door is open it will not close other than by Dead-Man operation (continual depression) of the CLOSE push button. In these circumstances if the CLOSE button is released whilst the door is closing it will stop.
9. The safety photo-electric sensor operation (if fitted) has no effect on the door when it is opening.

If the safety photo-electric sensor is misaligned, the door will not close from the hand held transmitter. However the door may be closed by pressing and holding the Control Unit case lid push button.

## LIGHTING CONTROL

Providing the lighting circuit is wired by a qualified electrician to an external light rated at a maximum of 500 watts and the DOCK LIGHT Dip switch number 6 is set to the OFF position, the light will turn on and remain on for a three minute period from the last operation of the door.

The Control Unit may be set by the installer to turn the light on when the door is opened and turn off when the door is closed instead. This feature is normally used to control a loading bay dock light.

## TO OPEN THE DOOR MANUALLY

The door should be fully closed if possible. Pull the Manual Override Release Lever to release the drive and lift the door manually. Press the Manual Override Release Lever down to reengage the drive.

However if the drive is reengaged with the door in a different position then the door may have to be cycled open and close for at least one complete cycle to enable the controller to synchronize the door position.

## CARE OF YOUR ZAP MOTOR-CONTROL SYSTEM

### OPERATION DURING COLD WEATHER

During winter if the door reverses off a build up of snow or ice then the doorway should be cleared to enable the door to close fully.

### MAINTENANCE SCHEDULE

Every month check that the closing door reverses when the safety photo-electric sensor beam is interrupted.

Every six months or 2500 operations, whichever is sooner:

1. Release the Manual Override Release Lever and move the door manually to assess the balance of the door and to check if it is binding.
2. Check the adjustment of the Manual Override Release Lever tension. The lever should be horizontal when the cable slack is taken up. Once the V-belt is bedded in and the slack is taken up the lever should be slightly lower than horizontal. If the lever tension requires increasing then turn the lever hook screw clockwise to increase the tension.
3. Check that the door opens and closes fully.

The Motor Operator does not require additional lubrication. Do not grease the door tracks.

If there is any doubt about the correct operation of the door then contact your dealer.

There are no user accessible adjustments on the controller other than the following case push button programming options:

### **PROGRAMMING USING THE CASE LID BUTTONS**

The following functions may be used providing the Control Unit is fitted with an optional Plug-in Beeper Module.

### **OPERATIONS COUNTER INTERROGATION**

A Door Operations Counter is incorporated. The number of door operations, to the nearest 100 operations, can be checked at any time.

The Door Operations Counter may be checked as follows:

Press and hold the STOP button.  
Then press and hold the OPEN button.  
Release the buttons after the beep.

The beeper will then indicate the total door operations since the door was installed by sounding long beeps for 1000's of operations and short beeps for 100's of operations.

For example: Two long beeps and three short beeps indicate that the door has completed 2300 operations. If there is no response after releasing the buttons then the door has completed less than 100 operations.

### **AUTO-CLOSE - STAY OPEN PROGRAMMING**

If the Control Unit has been set to Auto-Close and it is required to disable the Auto-Close function for example when it is required to hold the door open on a warm summer's day, then the Auto-Close can be temporarily disabled by opening the door and waiting for the door to stop in the open position as follows:

Press and hold the STOP button.  
Then press and hold the CLOSE button.  
Release the buttons after the beep. (The analogy being - *STOP CLOSING*).

The Auto-Close function will operate normally after the door is next closed using the CLOSE push button.