

#### GENERAL NOTE:

- The terms “door” and “doors” apply generally to Service Doors, Counter Service Doors and Grilles. If an instruction refers to a specific type, it will be noted as such.

#### OPERATION INSTRUCTIONS



**WARNING!** – A **moving door** can cause death or serious injury. **Keep clear** of the doorway while the door is moving.

- Operate the door only when the doorway is in sight and clear of people and obstructions.
- **Do not** allow children to operate the door, or play on, near, or with the door.

**NOTE:** If the door is provided with a locking device, make sure locks are disengaged before opening the door.

- **Slide lock at each end of the bottom bar:** Slide the bent locking bar away from the door guide until it is fully retracted and clear of the door guide.
- **Cylinder or thumb turn and L-handle near the center of the bottom bar:** Insert the key and rotate it or rotate the thumb turn until the spring activated L-handle returns to the unlocked position and the locking bar is retracted and clear of the door guides.

**NOTE:** Depending on the size and type of door, and the method of operation, it is not unusual for the door curtain to feel “heavier” as it travels from nearly closed to nearly open, and to “spring up” near the closed and open positions.

**Push-up operated door:** Lift the door curtain to open – pull down the door curtain to close. *There may be lifting handles or recessed lifts on the bottom bar to aid in the process. Exercise caution when operating the door and maintain control of it. The bottom bar may want to raise up from the sill when the door is closed and it may be necessary to hold the bottom bar down while engaging the locks (when provided).*

**Chain hoist operated door:** Pull the hand chain to open – pull the opposite side of the hand chain to close.

*Use a hand-over-hand motion when pulling on the hand chain to open. Use one hand to pull the hand chain and the other hand to guide the opposite side of the chain while closing. Exercise caution when pulling on the hand chain and maintain control of it. When the hand chain is not being used, it should be inserted in the chain keeper adjacent to the door guide. The chain keeper may be padlocked.*

**Crank operated door:** Insert the crank handle onto the crank gear box. Turn the crank handle to open – turn the crank handle the opposite direction to close.

*Use one hand to hold the crank handle and the other hand to turn it. Exercise caution when turning the crank handle and maintain control of it. When the crank handle is not being used, it should be removed from the crank gear box and stored in a safe and secure location.*

**Motor operated door:** Activate the “OPEN” or “UP” control to open – activate the “CLOSE” or “DOWN” control to close. Use the “STOP” control to stop travel of the door curtain between the open and closed positions.

*(Push the button or insert and turn the key to move the door curtain in the direction indicated.)*

NOTES:

- 1) *Most push-button control stations and key stations include a “STOP” button. If not, the control station should be wired to require maintained pressure on the “OPEN” and “CLOSE” control for the door curtain to move. Letting go of the button or key will stop the travel of the door curtain between the open and closed positions.*
- 2) *Per the requirements of UL Standard 325, a door (motor) operator must be provided with an actuating device (push-button control station, key station, etc.) requiring constant pressure to close the door. As an alternative, the door may be provided with a monitored sensing device that will reverse the door upon sensing an obstruction during closing. If a fault in the monitored sensing system is detected, the door will either stay in or return to the open position if closing. Depending on the operator design, the operator may revert to a constant pressure close function to allow temporary operability of the door until the fault condition is corrected.*
- 3) *In the event of a loss of power, motor operators that are equipped with an auxiliary chain hoist will allow for emergency manual operation of the door by pulling on the hand chain in one direction to open the door and in the opposite direction to close the door – when not in use, the hand chain is intended to be stored in the chain bag attached to the motor operator (when provided). Motor operators that have an auxiliary release will allow for emergency manual operation of the door by engaging the release and lifting the door curtain to open or pulling it down to close. Exercise caution when operating the door and maintain control of it.*

## **MAINTENANCE INSTRUCTIONS**



**WARNING!** – Components under **extreme spring tension** can cause death or serious injury. Adjustments and repairs must be made by a trained door systems technician using proper tools and instructions.

**Lubrication:** Bearings are grease-packed and sealed, requiring no further maintenance. Guides do not require lubrication, but may be coated with a light lubricant (such as “Slip-it”) to reduce friction and noise. Some operating systems utilize roller chain and sprockets, which periodically may require a light lubricant. Other components should not normally require lubrication.

*The use of heavy oil or grease as a lubricant is not recommended because they are likely to attract dirt and debris that can result in a build-up, and potentially worsen the condition lubrication was supposed to resolve.*

**Inspection:** The necessity for inspections varies greatly depending upon factors such as a door’s age, exposure to environmental conditions, and frequency of usage. Newer interior doors operated only occasionally generally justify much less frequent inspection than older doors, doors in higher cycle usage applications, or doors exposed to harsh environments. Periodically, all doors should be inspected for anything that might impair operation or pose a hazard, such as but not limited to:

- Loose bolts and screws
- Misaligned, loose, or worn drive components
- Damaged, worn, or missing parts
- free movement of the curtain in the guides
- Proper balance
- Proper function of any related equipment (controls, accessories, etc.)
- Sensing devices when provided, should be tested frequently

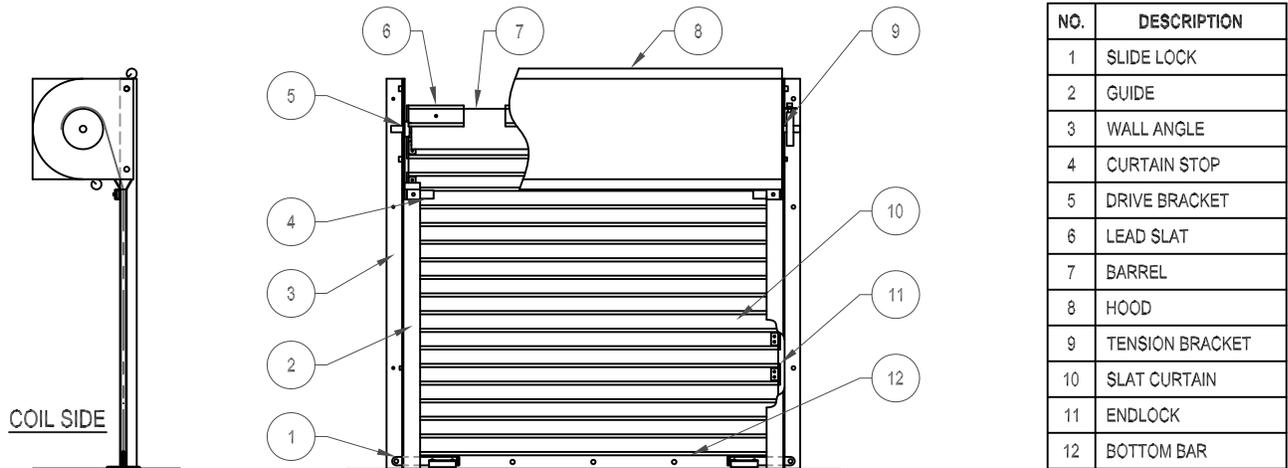
**Any defective conditions that are found during inspection must be corrected.**

**Adjustments and repairs:** If adjustments and repairs become necessary, they must be made by a trained door systems technician using proper tools and instructions.

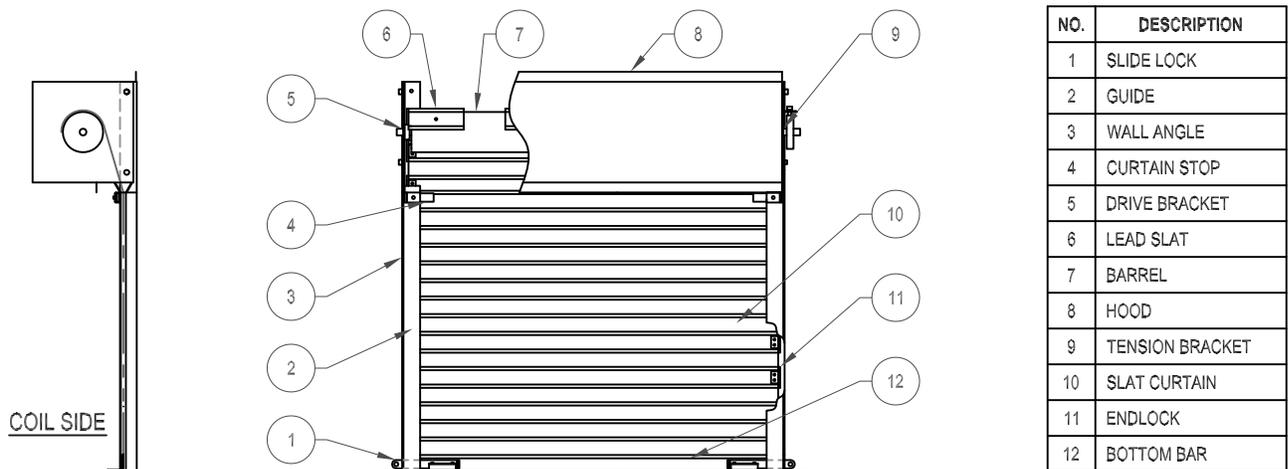
**Replacement parts:** Replacement parts are available from Lawrence Doors through an authorized dealer and often available from stock.

**NOTE:** If excessive wear or damage to any component(s) is observed, a trained door systems technician must evaluate the condition and perform all necessary adjustments and repairs.

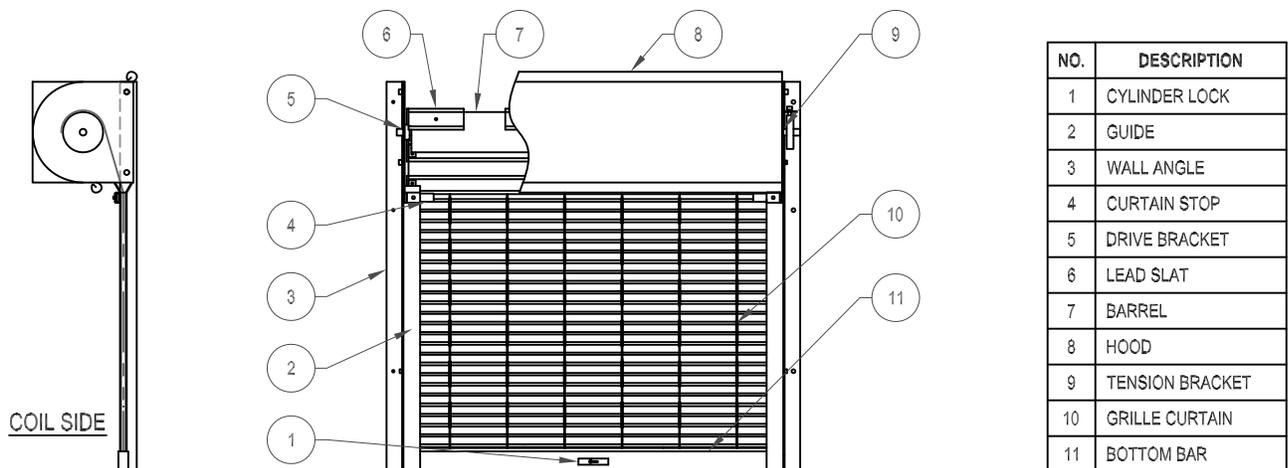
### SERVICE DOORS



### COUNTER SERVICE DOORS



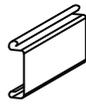
### GRILLES



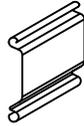
## SLAT TYPES

### FOR MODELS:

SD, MD, HD, CD  
MW, HW



Type 'F' Flat Slat  
2" x 9/16"



Type 'C' Curved Slat  
3 1/4" x 9/16"



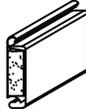
Type 'T' Flat Slat  
2 5/8" x 3/4"



Type 'A' Curved Slat  
2 5/8" x 7/8"

### FOR MODELS:

MI, HI



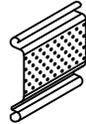
Type 'Ti' Insulated Slat  
(PVC Back)  
2 5/8" x 13/16"



Type '3i' Insulated Slat  
(Metal Back)  
2 1/2" x 13/16"

### FOR MODELS:

SV, HV



Type 'C' Curved Slat

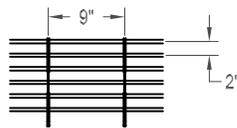


Type 'T' Flat Slat

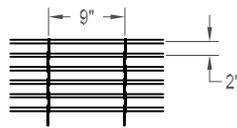


Type 'A' Curved Slat

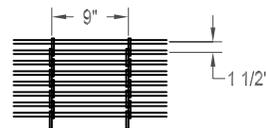
## GRILLE PATTERNS



SL-9 Curtain  
3-Hole Straight Link

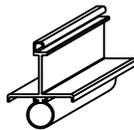


CL-9 Curtain  
2-Hole Compact Link

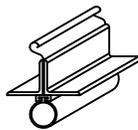


HL-9 Curtain  
2-Hole Heavy Link

## BOTTOM BARS



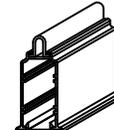
Aluminum Bottom Bar



Double Angle Bottom Bar



Single Angle Bottom Bar

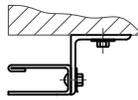


Tubular Bottom Bar

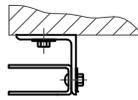
## GUIDES

### FOR MODELS:

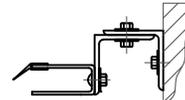
SD, MD, HD, MW, HW,  
MI, HI, SV, HV



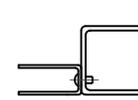
Type 'Z' Guide  
(Shown with Windlock Guide)



Type 'E' Guide



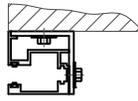
Between Jamb Guide  
(Shown with guide weatherstrip)



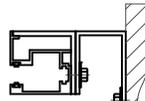
Tube Mount Guide

### FOR MODELS:

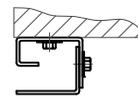
CD, CG



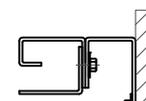
Face Mount



Between Jamb Mount



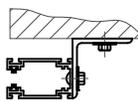
Face Mount  
(Optional)



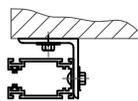
Between Jamb Mount  
(Optional)

### FOR MODELS:

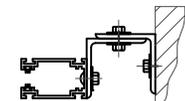
SG, HG



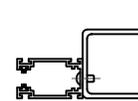
Type 'Z' Guide



Type 'E' Guide



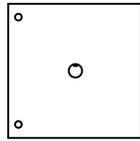
Between Jamb Guide



Tube Mount Guide

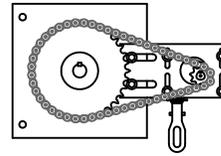
---

## PUSH-UP BRACKET



No Mechanism

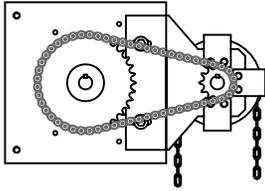
## AWNING CRANK BRACKET



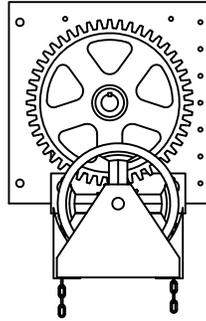
Roller Chain Reduction  
(Removable Handle Not Shown)

---

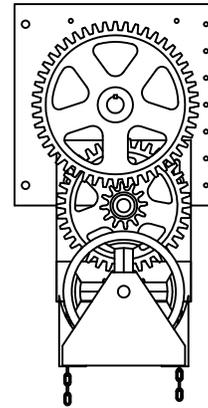
## CHAIN HOIST BRACKETS



Roller Chain Reduction



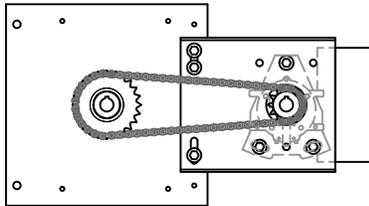
Single Gear Reduction



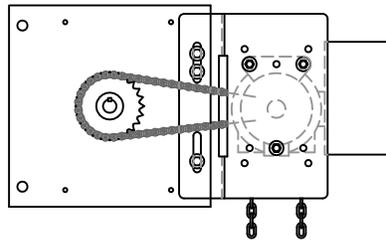
Multiple Gear Reduction

---

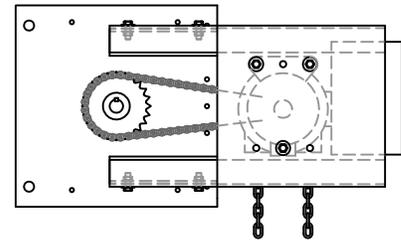
## MOTOR BRACKETS



Straight Mounting Plate



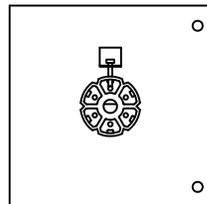
Bent Mounting Plate



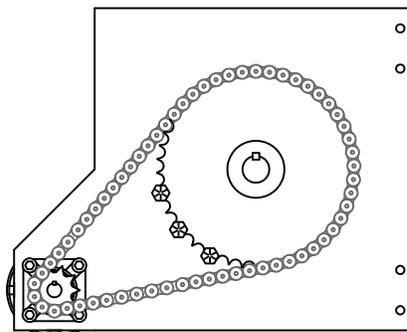
Heavy Duty Mounting Plate

---

## TENSION BRACKETS



Standard Tension Bracket



Compound Tension Bracket