

CRANE

Erection And Maintenance Of Manual Revolving Doors

Installation Procedures :

Please read these directions before beginning installation. If you need further information or clarification, call the factory before proceeding.

Installer must provide: shims, quick-set cement, glazing blocks, backer rod, glazing compound, and vinyl as needed.

Keep a Safe Work Area

Always cordon off a safe working area. Direct all traffic to an alternate entrance.

Packing

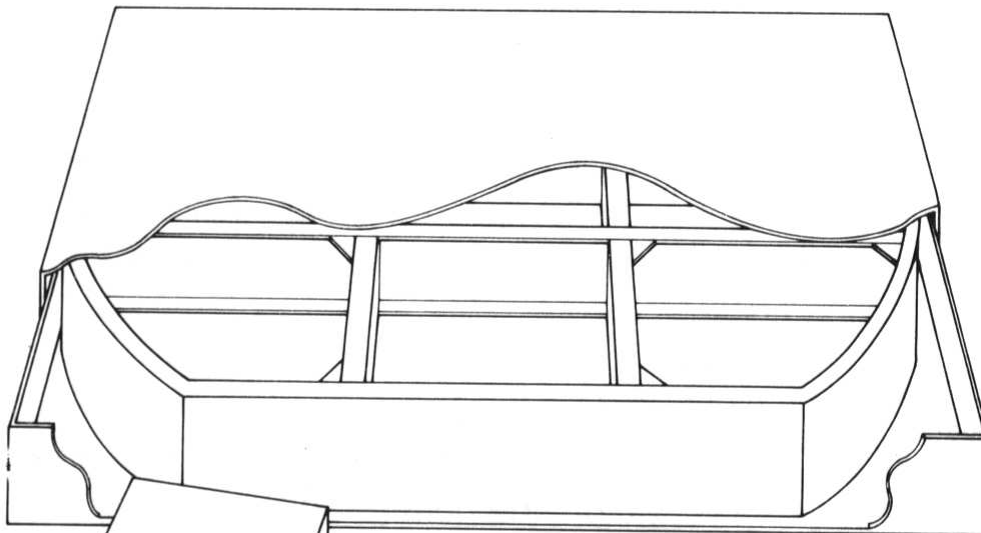
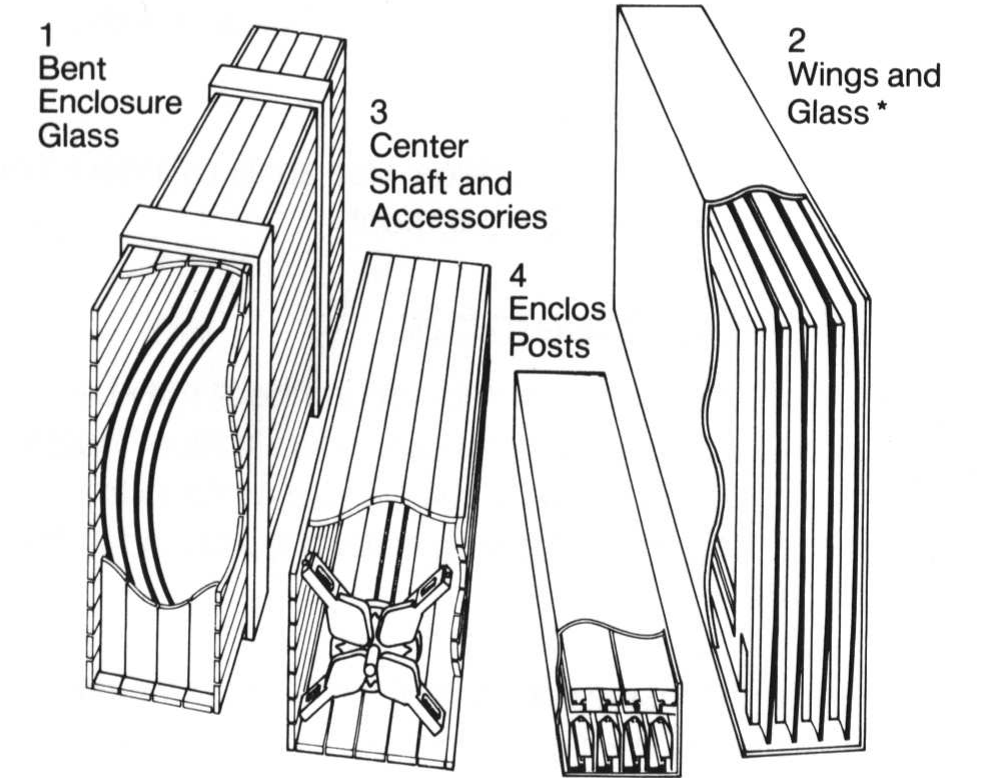
Typical crating of a Crane revolving door for shipment is shown on the next page.

1
Bent
Enclosure
Glass

3
Center
Shaft and
Accessories

2
Wings and
Glass *

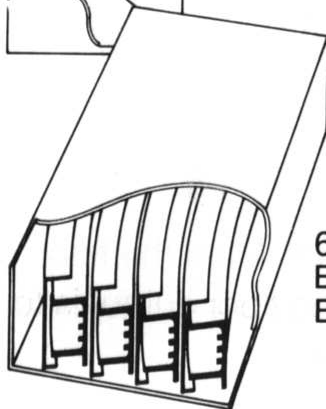
4
Enclos
Posts



5
Ceiling Deck

6
Enclosure
Bases

*Wings and glass are
shipped factory glazed
or for on site glazing



Floor

1. Inspect the floor where the door is to be installed. Finished floor should be in place before revolving door installation. Check that the floor is level. The operation and structural integrity of Crane revolving doors depends on their being mounted on a level floor. Do not proceed if the floor is not level or has surface inconsistencies.

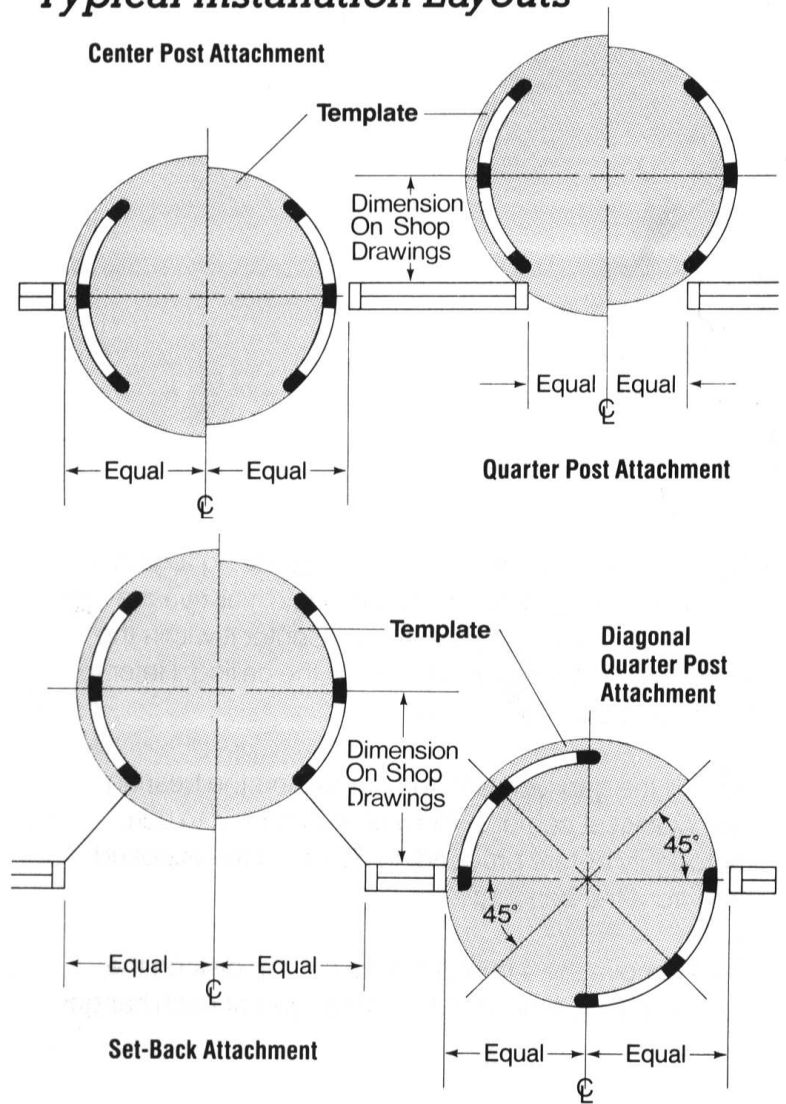
All Crane warranties are void if the door is installed on a floor that is out of level, or if proper clearances are not maintained.

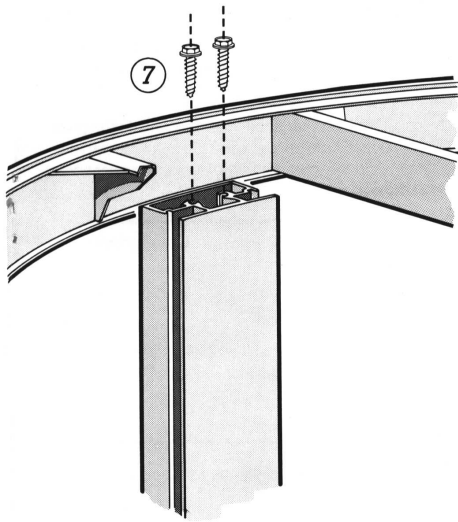
2. Locate and mark the centerlines of door on the floor. (Refer to the shop drawings)

3. A full-size installation template is included with each door. Position the template on the floor, aligned with the centerlines.

4. Drill pilot holes in the floor at the center and for all anchors. Drill all anchor holes: 1/2" diameter x 2 1/2" deep.

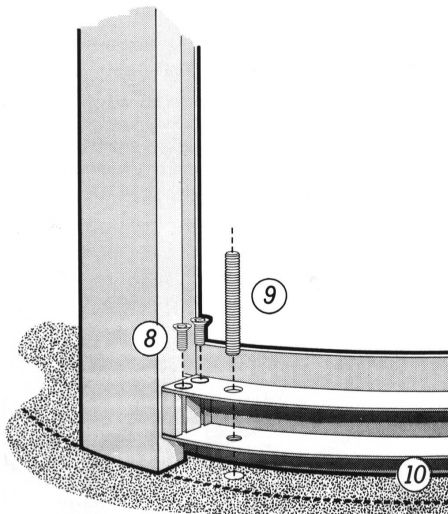
Typical Installation Layouts





Ceiling Canopy

- 5.** Remove the canopy cover and set aside. Fill the speed control with oil supplied.
- 6.** Raise the canopy into place. Use an air cylinder lift or other appropriate lifting equipment.



Enclosure Assembly

- 7.** Each component is numbered so the it may be assembled exactly as it was during fabrication. Match the numbers and fasten all the vertical posts to the ceiling. 2 bolts or self-tapping screws are provided for each post.
- 8.** Fasten the inside sections of the base to the posts with the machine screws provided. Set the outer sections of the base aside.
- 9.** Set the anchor bolts extending from the base into the holes in the floor. Level the enclosure with horseshoe shims. Check that the enclosure walls are plumb and square. Fill the anchor holes with quick-set cement. Allow the cement to cure.
- 10.** When installing on a finished floor, seal the base to floor with caulk. If the finished floor is not in at the time of installation, the general contractor must be notified in writing to seal the base-floor joint.

Operating Hardware

11. Return to the pilot hole at the center. Mark the floor cutout: 5 5/16" diameter x 1 3/4" deep. The floor cutout is to be provided by the general contractor.

12. Tape the two halves of the pivot bearing together. Position the bearing in the cutout. Hold it above the finished floor with 1/8" thick shims. Center it within the enclosure and check the height to the ceiling. Refer to the shop drawings

13. Fill the gap between the cutout and the bearing with quick-set cement. Allow all the cement to cure thoroughly before proceeding. Remove the exposed tape from the bearing.

14. Remove the 4 hangers from the top disk on the center shaft. Loosen the bolt at the end of each hanger to release.

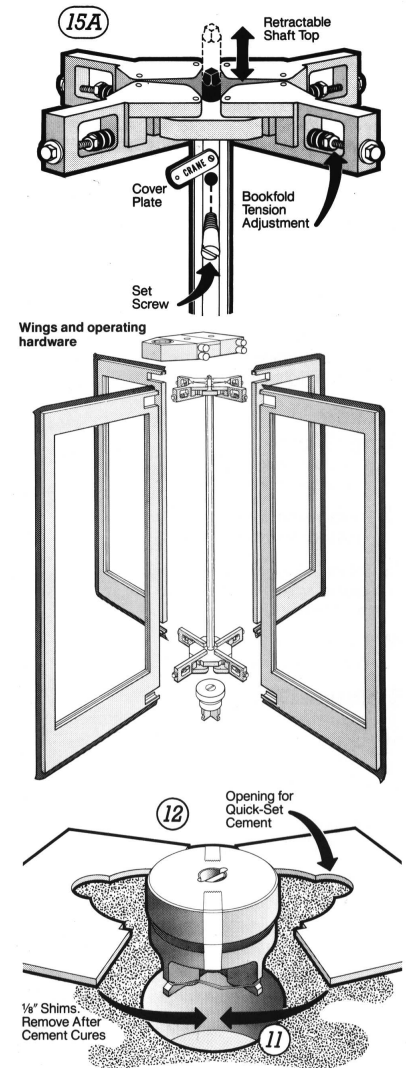
Speed Control Access from bottom of ceiling

15A. At the top of the center shaft, under the serial number plate, remove the set screw and retract the shaft top.

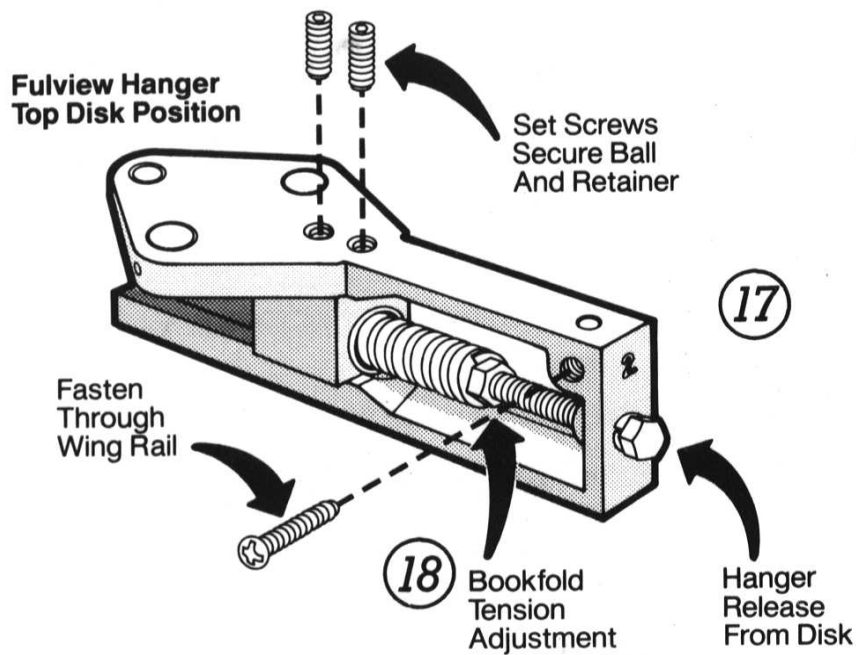
16A. Install the center shaft. Fit the shaft into the pivot bearing socket. Line up and raise the shaft top into the square hole in the speed control. Replace the set screw and cover plate.

Alternate Speed Control Access from top of ceiling

15B. Remove the 8 mounting screws from the speed control and lift it out of the way.



16B. Install the center shaft by setting the base of the shaft into the floor pivot. Align the shaft with the speed control and reseal the control and replace the 8 mounting screws.



17. Grease and replace all hangers in their properly numbered spots.

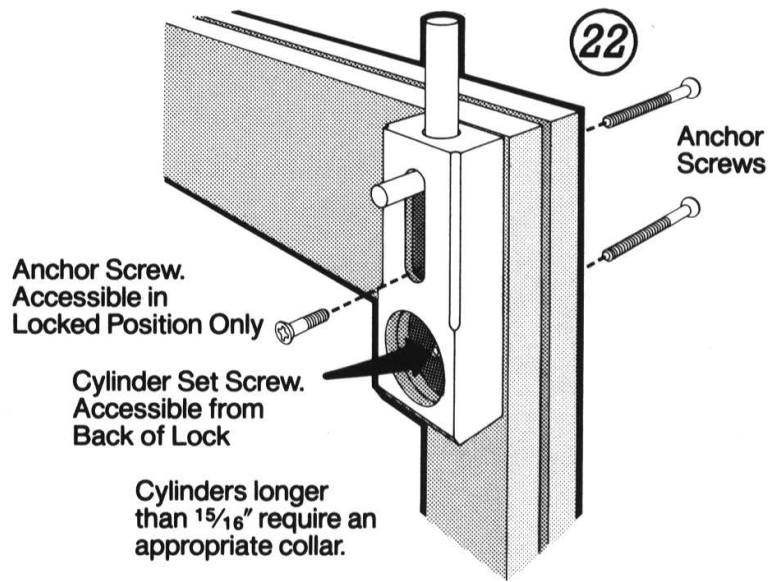
18. Set the automatic bookfold tension on each hanger finger tight. 1/4 Turn in either direction from the initial setting will make a noticeable difference.

19. Match each wing to it's numbered hangers. Slide it onto it's hangers and secure with screws.

20. Check the operation of the bookfold mechanism on each wing. To test, block one door wing and pull an adjacent wing with a scale at the outer edge until it bookfolds. Match the bookfold tension on the remaining wings to the first. Make any further adjustments as necessary.

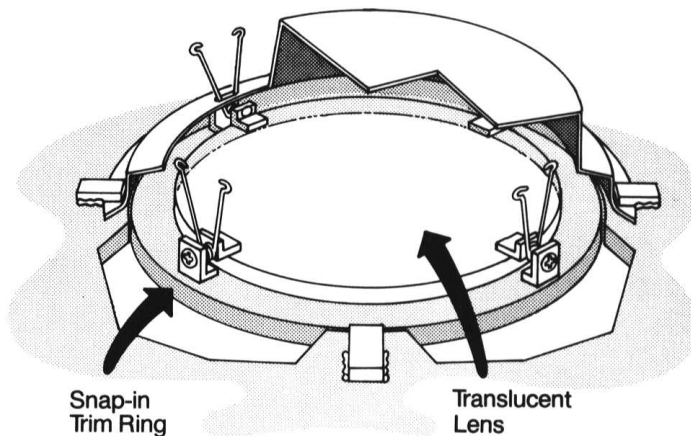
21. Spray new weathersweep with silicone to ensure ease of operation while weathersweeps wear in.

22. Mortise locks must be removed to install cylinders. (Lock cylinders were not provided by Crane Door Co. unless otherwise noted in the shop drawings.) Install cylinder and tighten set screw. Attach locks to wings. Rotate the door to the preferred interior or exterior locked position. Extend bolts to mark holes.



Ceiling locks: Drill 2# undersize holes and finish to 3/4" diameter with multi-flute countersink.

Floor locks: Drill 2# 1 1/8" diameter x 1 1/4" deep holes. Dustproof strike plates are provided for floor locking. Secure strike in place with quick-set cement.



Optional Ceiling Lights

110 Volt electrical hookup and FC8T9 Circline Lamp are not supplied by Crane. Remove the protective paper cover from light lenses before installing.

Wing Glass

Wings must be blocked tight and square. Install glazing blocks as shown in shop drawings.

23. For each wing, set neoprene glazing gasket or glazing tape on the inside of the wing.

24. Set the wing glass in place. On Fulview Wings, snug up glazing screws. Check that each wing is square and tight.

25. Install the snap-in or screw-in glass stops. Finish glazing with gasket, tape, or compound.

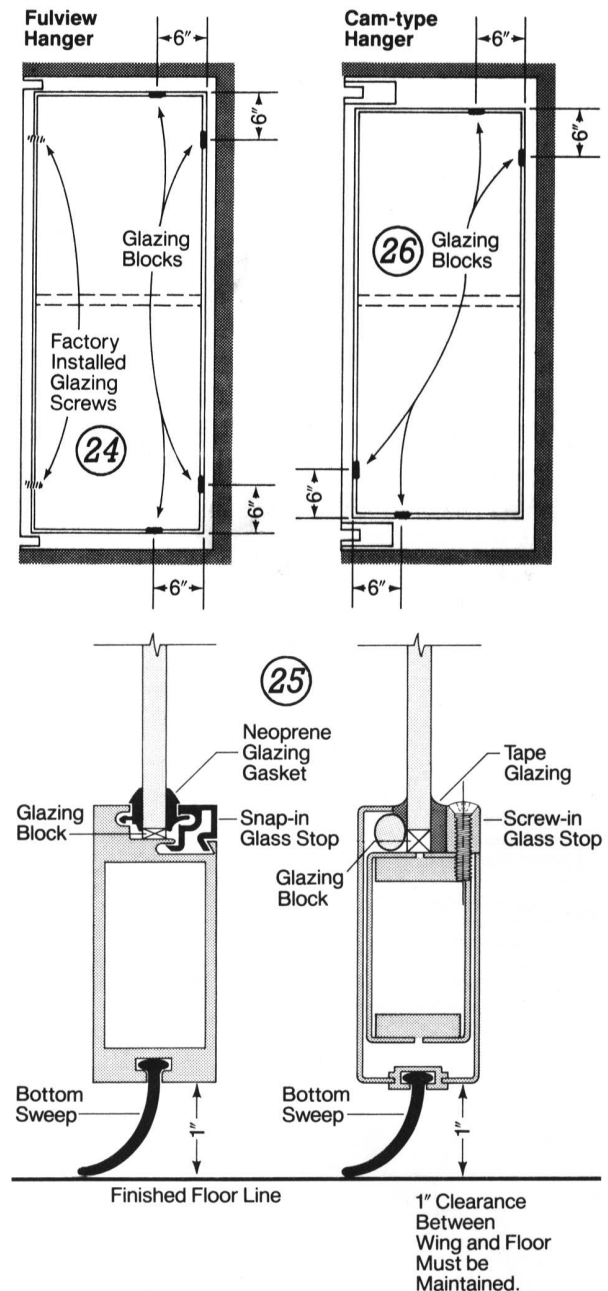
Enclosure Glass

Handle curved glass with care. Do not exert force on these pieces. **26.** Set the glazing blocks as shown on the shop drawings. Mount glazing tape on the inside of the glazing pockets.

27. Set each piece of enclosure glass into the deeper side pocket and shift into position against setting blocks in the opposite pocket. See shop drawings.

28. Snap-on or screw on the outer section of the enclosure base.

29. Finish glazing with glazing gasket, or backer rod and glazing compound around the edges of each piece of enclosure glass.



Maintenance

All Crane doors will provide years of dependable service with minimum maintenance.

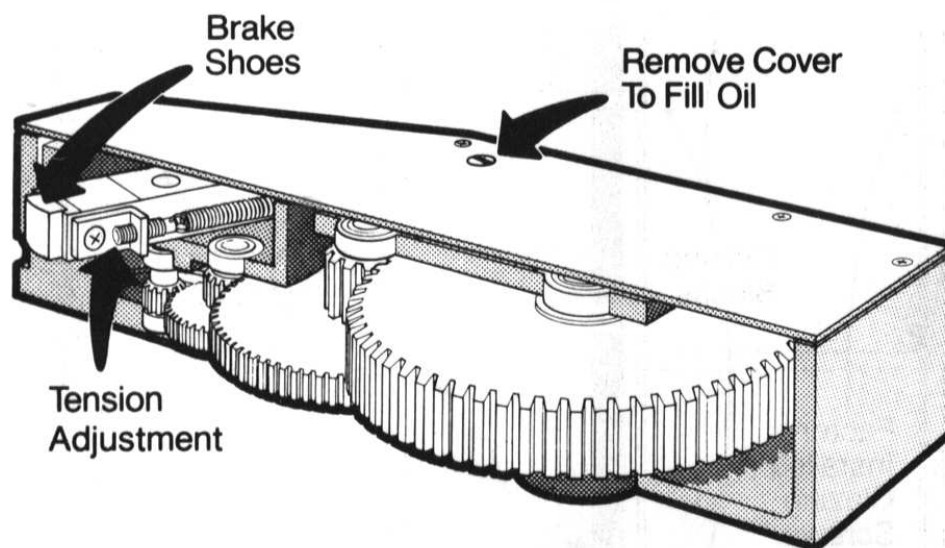
Pivot Bearing

The pivot bearing has a grease fitting. Bearing should be greased semiannually or as needed.

Speed Control

Speed controls are set at the factory at 12 R.P.M. Remove cover plate to adjust engaging pressure or replace brake shoes. To oil speed control, remove the oil fill screw. Use multigrade synthetic oil supplied with the door. Do not overfill, too much oil will restrict operation of door.

Speed Control



Weathersweeps

CAUTION: Reducing or trimming the size of the bottom sweep makes the sweep more rigid and voids all warranties implied, written, or imagined. Replace weathersweeps as needed. Spray new weathersweeps with silicone to ensure ease of operation while weathersweeps wear in. Contact Crane Door Company for replacement weathersweeps.

Cleaning

Aluminum

Dust and grime can be removed by regular cleaning. Use a mild, Non-Abrasive soap or cleaning solution and water.

Tar and built-up dirt can be removed with solvent cleaners such as turpentine, if followed by a soap and water cleaning and fresh water rinse. Avoid acid or alkali cleaners. They may attack the anodized finish. After cleaning, surfaces should be wiped dry with a clean absorbent material.

#4 Satin Stainless Steel

For routine cleaning, use soap, ammonia or detergent and water. Always working in the direction of the grain, rub with a sponge or rag. Rinse with clear water. Wipe dry. Stubborn dirt or grime can be removed with a quality commercial stainless steel cleaner.

Mirror Finish Stainless Steel

Mirror finishes require very special care. Abrasive cleaners and cloths should never be used. Use only mild soap and water or glass cleaner.

Bronze

To ensure proper maintenance, consult a professional bronze finisher and establish a regular metal cleaning program. Bronze finishes are protected during shipping and installation by a shop coat of lacquer. Doors must be inspected and worked after installation by a qualified bronze finisher. Lacquer can be damaged by ammonia in window cleaners, or acids from masonry cleaners. Protect doors from contact from these cleaners.

Painted Finishes

Any mild Non-Abrasive soap or mild solvent can be used for cleaning. Strong solvents may dissolve paint. Test any solvent first. Wax can be used to protect the finish.