

# SERVICE DOOR INSTALLATION INSTRUCTIONS

Southwestern Rolling Steel Doors 9525 White Rock Trail Dallas, Texas

Specific installation techniques necessarily vary with job condition, size of door, lifting methods available and installation crew preferences. These instructions are intended to inform an experienced installation crew about general order of installation tasks. We recommend Southwestern Rolling Doors be installed by experienced, professional installers. For installation questions call 800-527-1355 or 214-348-7020. Hours are 7:30 a.m. to 3:00 p.m. CST, weekdays.

NOTE: Door parts are not interchangeable. Part numbers must match for each door.

## GUIDES

Inspect guide channels and correct any handling damage to channels before installing. Refer to guide layout, Figure 1, when positioning guides. Final installation will be centered if opening center is used as layout reference. Horizontal guide to guide separation should be as accurate as possible because deviation affects wind load capacity of door, and large deviation can cause end locks or wind locks to drag. Guides should be level with each other and plumb. If floor is not level the guide on low side must be raised above floor to compensate. Guide mounting surfaces on each side should be parallel to the plane of the door curtain. If not, guide would be mounted canted and curtain could bind in guide channel. Mark full shape of mounting holes. Near the center of each marked shape, drill a hole of appropriate size for fastener. Bolt guides in place.

## BARREL AND BRACKETS

Position barrel assembly at bottom of opening with barrel ends oriented correctly. To identify, note that drive side shaft is solidly fixed to pipe, while tension shaft can rotate. Remove tension wheel from tension shaft and key from drive shaft. Leave spacer on each barrel shaft and place correct bracket on each shaft. Hood support bands should be located inside each bracket, and bracket with bearing should be placed on drive shaft. Raise barrel and brackets into position and bolt bracket to guides. Verify that barrel is level.

## TENSION WHEEL AND DRIVE TRAIN

Install tension wheel. Depending on door model, drive train may consist of 1) hand chain with gears, 2) motor operator with roller chain and sprockets, or 3) nothing. Order of gear installation for hand chain hoist: Main gear (placed on barrel drive shaft), reducer gear (if any), 2<sup>nd</sup> reducer gear (if any) , chain hoist sprocket and guard. This order places main gear closest to bracket. Some adjustment of gear train may be accomplished by using washer spacers provided. Chain lock may be mounted on the guide using bolts in two pre-drilled holes, or may be mounted on the wall. Install motor operator if so equipped. If motor operator does not have an auxiliary hand chain hoist then connect the operator after curtain installation and tension adjustment.

## **CURTAIN**

On each guide install the curtain stop nearest to wall. Use a fork life or other lifting device. Position rolled curtain (as shipped) at bottom of opening so that it will uncoil correctly and lift curtain up near barrel. Pull top of curtain up between wall and barrel, center curtain and attach to barrel. Use chain hoist or tension wheel (or both) to roll curtain onto barrel. **CAUTION: DO NOT USE ANY OPERATOR UNDER ELECTRIC POWER TO ROLL CURTAIN ONTO BARREL.** When curtain has been completely rolled around barrel apply enough tension with tension wheel to maintain curtain in fully opened position. Feed Curtain a few inches into guides and secure chain hoist. If door is not equipped with a chain hoist then clamp guides to secure the curtain. Install remaining two curtain stops.

## **TENSION ADJUSTMENT**

Refer to data on Figure 1. For “Additional main spring tension after balance at header.” Start with tension adjusted to just hold door in full-open position. **CAUTION: ADJUST TENSION ONLY WITH CURTAIN IN FULL OPEN POSITION AND WITH CURTAIN SECURED AGAINST MOVEMENT.** Secure curtain in full-opened position by locking the chain hoist or by installing clamps near top of guides. Add number of turns shown on data sheet. Roll curtain down to check door balance.

Normally door will tend to open in both full-open and full-closed positions, and will tend to close in half-closed positions are equal. To adjust tension, raise curtain to full-open position and secure curtain against movement as before. Increase or decrease turns on tension wheel as needed.

## **HOOD**

Using a fork lift or other lifting device, lift hood into position. Push upper hood angle up against wall. Use sheet metal screws to secure hood to hood bands. Note: Some models not equipped with hood.

## **INSPECTION**

Observe overall operation of door. Material tolerances in pipe may cause one side of curtain to raise higher. This is only a problem of appearance if limited to an inch or two. Correction may be made by placing shim (a piece of wood maybe be cut to size) between curtain and barrel on low side. If end locks drag on guides or if wind locks drag on wind bar then verify guide layout, especially guide separation, and verify curtain slat cut length. If curtain drifts laterally verify that barrel is level and restrained from lateral movement by spacers between barrel and brackets. Bend curtain stops if necessary to avoid scratching curtain.