

GRIFCO CHAIN HOIST INSTRUCTIONS

SOUTHWESTERN STEEL ROLLING DOORS 9525 WHITE ROCK TRAIL DALLAS, TEXAS

The installation of the Grifco Chain Hoist operator should be standard so the roller chain sprocket lines up with the door sprocket or plate wheel. The operator can be mounted in any position as long as the chain guide is facing towards the ground so the hand chain can run through. The roller chain attachment etc. is commonsense and is not covered in this installation instruction.

To make the door operate you must fully engage the arm that is situated opposite the output sprocket. The arm may face up or down depending on the way you would like to engage. To change this arm setting see instruction details later. To fully engage the arm you attach a cable to the outer most point to pull the arm inwards towards the operator. The other end of the cable is attached to a fixed object. In between the cable is a release linkage. When this cable is set it must have no slack, it must close the arm to its full extent without exerting excessive pressure. Approximately 5kg force should be sufficient. This can be limited by attaching a tension spring that exerts this pressure. A spring linkage will also give the facility to re-engage the unit from the ground if required.

The arm will only engage on 50% of the output shaft travel. If the arm is not engaging you must move the door or output sprocket slightly into an engaging position.

The hoist has an adjustable friction setting to hold the door at any position of the opening. The adjusting nut is located on the opposite side to the chain wheel. The nut has a locking screw that should be released when adjusting the clutch. When you install the door you set the clutch to hold the door at its half open position and test to see that it holds at the set position. At this point run the door down wards with a swift pull of the hand chain to test that it does not run on too far.

The door should now operate very efficiently on opening or closing with the high reduction and large chain wheel giving effortless operation. If the door does not function smoothly consult the door manufacturer.

In all open positions the door is locked in place by a unique mechanism that will release when triggered by fire sensed by temperature or smoke alarm from the fire control panel. When this signal is received the release linkage will open and the release arm will push out. After this the door will automatically begin to fall toward the closed position. The speed of fall is retained with an adjustable descent governor. The governor will ensure the door reaches its closed position. The governor is purely a safety feature built in to protect people that may be passing through the opening at the time of closing.

To re-engage the door the linkage must be replaced and the arm re-engaged. See earlier on in this instruction.

Changing the arm position- The arm may be changed to face the top, bottom or vice versa by undoing the four bolts that hold the governor housing onto the plate. Once the plate has been removed it must be replaced at 180 degrees ensuring proper gear meshing. To test the gear mesh turn the output

sprocket (or try lifting the door) with the engage arm released. The flyweights should spin very easily. If they don't then the mesh is either too far or too close and further adjustments will have to be made to correct it.