JOB 318

INSTALLATION & MAINTENANCE GUIDE
Horizontally Opening Product Line

SIDE OPENING
Landing Door and Car Door

REFER TO GUIDE 315
HSD DOOR OPERATOR

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Maintenance
Look for the Blue Box

Job Site Inspection
Before beginning the installation, ensure that the structural opening is the correct size and that there is adequate support for the entrance sill and header. The entrance must attach to masonry or heavy steel struts. Drywall and light steel studs are not sufficient support.

Also, the elevator must be assembled to a “working platform” stage which can be operated by temporary buttons mounted on the car.
INSTALL CAR DOOR SILL FIRST

DRILL HOLES FOR MOUNTING IN CENTER OF SLOTS USE EXTRA LARGE OUTSIDE DIAMETER WASHERS WHEN ASSEMBLING

CLEAR OPENING WIDTH

PLATFORM WIDTH

27 mm [1 1/16”]
Landing Door Assembly

HSD Landing Door

HANGER ASSEMBLY
HEADER ASSEMBLY
LOCK ASSEMBLY
DOOR PANELS
UNLOCKING DEVICE
STRUT/COUNTERWEIGHT
DOOR PANEL CLIPS
BOTTOM PANEL RETAINERS
SILL ASSEMBLY
TOE GUARD
STRUT
FRAME
LINKAGE

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SIDE OPENING

2
LANDING DOOR FRAME

ALIGNMENT SETTING

27 mm [1 1/16"]

LANDING DOOR SILL
CAR DOOR SILL

DRILL HOLES IN CENTER OF SLOTS USE EXTRA LARGE OUTSIDE DIAMETER WASHERS

CONCRETE ANCHORS
SILL LEVELING BOLT

PIN SILL TO WALL USING CONCRETE ANCHORS AFTER FINAL ALIGNMENT CHECK BETWEEN CAR SILL AND LANDING DOOR SILL IS COMPLETE
Landing Door Header & Panel

ADJUST HEADER TO MAINTAIN
6 mm Max [ 1/4" in]

Maintenance
Ensure Traction Rollers are in good condition. If Rollers are warn, replace

MOUNTING BOLT
[MAY REQUIRE SHIM]

SHOE ASSEMBLY
AFTER INSTALLING ENSURE THE PANEL MOVES FREELY

Maintenance
Ensure there is no more then 1.5 mm gap on either side of the shoes. If gap is greater than 1.5 mm its time to replace the shoes.

RETAINER

1.5 mm
(1/16 in)
Landing Door Linkage

FAST PANEL BRACKET

LINKAGE ASSEMBLY

END BRACKET
ATTACH TO STRUT

Maintenance
if bearings are broken or split, replace the connecting point bearings.

BUSHING

HSD Landing Door

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SIDE OPENING
Landing Door Linkage Adjustment

ENSURE BRACKETS ARE IN LINE WHILE DOORS ARE IN THE OPEN AND CLOSED POSITION.

ENSURE DOOR PANELS ARE FLUSH WITH THE FRAME WHILE IN THE OPEN POSITION.

USE SLOTS FOR ADJUSTMENT.
Interlock Mounting

Maintenance
Ensure roller diameters are ±2 mm.
Ensure rollers are not split or broken.

Ø38.1 mm (1 1/2 in)
Ø31.75 mm (1 1/4 in)

SIDE TO SIDE ADJUSTMENT

2 mm [1/16”]

HSD Landing Door

Ensure roller diameters are ±2 mm.
Ensure rollers are not split or broken.

Ø38.1 mm (1 1/2 in)
Ø31.75 mm (1 1/4 in)

SIDE TO SIDE ADJUSTMENT

2 mm [1/16”]

7 mm [1/4”]

ENGAGE DISTANCE
Counterweight Roping

ATTACH CABLE TO DOOR FAST DOOR PANEL

ATTACH CABLE TO DOOR FAST DOOR PANEL

CABLE
COUNTERWEIGHT

USE SCREWDRIVER TO HOLD COUNTERWEIGHT WHILE FASTENING THE CABLE

Maintenance
Ensure cable is taught (no sag)

SELF CLOSE FEATURE
AFTER COUNTERWEIGHT ROPING IS COMPLETE, REMOVE THE SCREWDRIVER AND LET THE DOORS CLOSE.
THE DOORS SHOULD CLOSE FULLY AND LOCK.
THE DOORS SHOULD CLOSE FULLY AND LOCK NO MATTER HOW MUCH THEY ARE OPEN.
Maintenance
Ensure the Door Clips are installed

DOOR CLIPS

ADJUSTABLE
Unlocking Device

INTERLOCK

CABLE

UNLOCKING DEVICE KEY

LEVER
Car Door Assembly

HSD Car Door

- CAR DOOR LOCK
- BELT
- HEADER ASSEMBLY
- MOTOR
- STRUT
- HANGER
- LIGHT CURTAIN
- CAR DOOR PANEL
- LINKAGE
- LINKAGE BRACKET
- SHOE
- SILL ASSEMBLY
- TOE GAUED SUPPORT
- TOR GAURD
- PANEL RETAINERS

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Header Support

UNITSRUT

HANGER

HEADER ASSEMBLY

ADJUSTMENT SLOTS

83 mm [3 1/4 in]

19 mm [3/4 in]
Panel Installation

**Maintenance**
Ensure Traction Rollers are in good condition. If Rollers are warn, replace.

**MOUNTING BOLT**
[MAY REQUIRE SHIM]

**SHOE ASSEMBLY**
AFTER INSTALLING ENSURE THE PANELS MOVES FREELY

**RETAINER**

**Maintenance**
Ensure there is no more then 1.5 mm gap on either side of the shoes. If gap is greater than 1.5 mm its time to replace the shoes.

**ADJUST HEADER TO MAINTAIN**
6 mm [1/4 in]
Panel Linkage

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Maintenance
if bearings are broken or split, replace the connecting point bearings.

FAST PANEL BRACKET

LINKGE ASSEMBLY

END BRACKET
ATTACH TO STRUT

BUSHING
Panel Linkage Adjustment

ENSURE BRACKETS ARE IN LINE WHILE DOORS ARE IN THE OPEN AND CLOSED POSITION

ENSURE DOOR PANELS ARE FLUSH WITH THE FRAME WHILE IN THE OPEN POSITION.

USE SLOTS FOR ADJUSTMENT
Lock Mounting

Ensure rollers are centered between the clutch arms, when landing doors and car doors are closed.

Lock Mounting

Adjustment Slots

6 mm (1/4 in)

Minimum 10 mm
(3/8 in)

HSD Car Door

BELT

BELT CLAMP

KICK OUT CAM

LOCK SWITCH AND BRACKET

BELT TENSION ADJUSTMENT

CLUTCH ASSEMBLY

MOUNTING STUDS

REMOVE CLIP AFTER INSTAL

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SIDE OPENING

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CAR DOOR LOCK SWITCH
[RUN CABLES BACK TO ELEVATOR CONTROLLER]

PINS TO PROTRUDE 6 mm [1/4 in]

LOCKING ARM

ADJUSTMENT BOLT
FOR PIN PROTRUSION

DOOR OPERATOR CONTROLLER
[WIRE BACK TO ELEVATOR CONTROLLER]
Landing Door and Car Door in the LOCKED Position

1. Belt Arm is held in position by the Door Operator
2. Locking Arm is held in position by the Counterweight
3. Roller wants to push the Belt Leg closed
4. Landing Door is Locked

- Counterweight pulls down
- Tension Spring always pulls in this direction
- Roller is free and resting in the locked position
- Belt is held in a stationary position by the Door Operator
- Fully closed position

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Clutch Assembly & How it Works

Landing Door and Car Door in the UNLOCKED Position

1. To open Car Door, Belt is being pulled this way by the Door Operator.
2. Belt Arm is pulled forward by the Belt that’s connected to the Door Operator.
3. Lock Release Arm Rotated down.
4. Rollers are squeezed into unlocking position by Arms.
5. Landing Door is unlocked.
6. Tension Spring expanded.
7. Car Door is unlocked.

Maintenance
- While the Car Door is at the Landing, turn off the power and try to open the Car Door. You should be able to.

If you experience loss of power while you are between floors.

There are no rollers to push back the Locking Arm. The Locking Arm will stay locked.

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Finishing Pieces

HSD Car Door

- FILLER
- LIGHT CURTAIN
- TOE GUARD SUPPORT
- TOE GUARD

Maintenance
Ensure the Door Clips are installed

Light Curtain
Cable runs back to light curtain Controller
See installation manual located inside the light curtain box

Finishing Pieces
Roller Hanger Maintenance

1. Remove the Top Retainer
2. Remove Up-Thrusts
3. Use tools provided to remove the Up-Thrusts
4. Reattach the Top Retainer
5. 1.5 mm MAX (1/16 in)
6. Reattach the Up-Thrusts

HSD Car Door