INSTALLATION & MAINTENANCE GUIDE
Horizontally Opening Product Line

Landing Door and Car Door

REFER TO GUIDE 315
HSD DOOR OPERATOR
Copyright
Copyright 2006, The Peelle Company Ltd. All Rights Reserved. This document may not be reproduced, electronically or mechanically, in whole or in part, without written permission from The Peelle Company Ltd.

Trademarks
All trademarks or registered product names appearing in this document are the exclusive property of the respective owners.

Warning and Disclaimer
Although every effort has been made to make this document as complete and accurate as possible, The Peelle Company Ltd. and the document authors, publishers, distributors, and representatives have neither liability nor responsibility for any loss or damage arising from information contained in this document or from informational errors or omissions. Information contained in this document shall not be deemed to constitute a commitment to provide service, equipment, or software by The Peelle Company Ltd. or the document authors, publishers, distributors, or representatives.

Limited Warranty
Peelle warrants to the Customer that goods and services sold will be free from defects in material, workmanship and title and will conform to any mutually agreed upon specifications. If any failure to meet this warranty appears within one year from the date of shipment of the goods or completion of the services, on the condition that Peelle be promptly notified in writing, Peelle will correct any such failure by re-performing any defective portion of the services furnished and supplying conforming goods. If the contract covers installation, repair or maintenance, Peelle will correct the failure by re-performing any defective service, and either repairing or replacing (at its option) any defective goods furnished and any damaged equipment upon which the service was performed resulting from defective service. If re-performance is not practicable, Peelle will furnish without charge services in an amount essentially equal to those which, in Peelle’s sole judgment, would have been required for re-performance.

The preceding paragraph a. sets for the exclusive remedy for all claims based on failure of, defect in, goods or services sold hereunder, whether the failure or defect arises before or during the warranty period, and whether a claim, however instituted, is based on contract, indemnity, warranty, tort (including negligence), strict liability or otherwise. The foregoing warranty is exclusive and is in lieu of all other warranties whether written, oral, implied or statutory.

AS TO ALL GOODS SOLD, NO IMPLIED STATUTORY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE SHALL APPLY.
Table of Contents

Car Sill Installation  
Pg 1
Landing Door Installation  
Pg 2-16
Car Door Installation  
Pg 17-33
Troubleshooting  
Pg 35
Appendix A  
Pg 36-38
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
The car door sill will provide a solid point of reference for all necessary settings.

1. Sill Assembly Left Hand Side
2. Washer (Large OD)
3. Sill Assembly Right Hand Side

Align center of sill with center of platform.
**Entrance Frame Assembly**

1. Mark Center of Platform
2. Transfer marks from platform to each Landing Sill (Landing Sill is optional)
3. Ensure sill angle is level with floor before going on to steps 2 & 3.
4. Side Channels Attach as shown
5. Structural Opening
6. Ensure dimension 'A' is maintained
7. Keep Bolts Loose
8. Anchors NOT Supplied

**Note:** Use Adjustment Bolts to level the sill

**Side Channels**

**Concrete Anchors**

**Structural Opening**

**Frame Top Assembly**

**Frame Vertical Assembly**

**Frame Vertical Assembly**

**Mark Center of Platform**

**Transfer marks from platform to each Landing Sill (Landing Sill is optional)**

**Ensure dimension 'A' is maintained**

**Level**

**North American Style**

**HSD Landing Door**
Align Header Assembly with center of platform

Concrete Anchors

Stop Block

Frame Support Angle

Door Tracks
Header Assembly

Optional

Door Tracks

Stop Bracket

Position Stop Bracket as shown. Use Stop Bracket to hold Left and Right Headers together.

Use Bolt to set distance from Header to Sill

Large OD Washer

Slot in Mounting Bracket allows the Door Track to move in and out.

Landing Door Track

DIM A + 60mm = 90mm
DIM A + 2 3/8 in = 3 9/16 in

DIM A = 30mm
DIM A = 1 3/16 in

Landing Door Sill

Car Door Sill

437

317

INSTALLATION & MAINTENANCE GUIDE
Landing Header Installation

Optional

Fast Door Hanger

Fast Door Track

Slow Door Track

Slow Door Hanger

Fast Door Hanger

Use bolts for final adjustments to fast door panels

Landing Door UP

Landing Door UP

THE PEELE COMPANY
FREIGHT DOORS | CAR GATES | CAR ENCLOSURES
TECHNICAL SUPPORT 1-800-787-5020 ext 244

317
INSTALLATION & MAINTENANCE GUIDE
Landing Header Installation

1. Fast Door Hanger
   Mounting Bolt
   (Panel may need shim)

2. Fast Door Panel
   Narrow Side

3. Bottom Retainer
   Side Channels
   Use slots to adjust

4. Adjust Header Mounting
   1.5 mm (1/16 in)

5. Repeat steps 1-4 for all other Door Panels

6. Maintenance
   Ensure Traction Rollers are in good condition. If Rollers are warn, replace
   6 mm (1/4 in) MAX

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

After installing the Shoe Assembly ensure the panel moves freely

Adjust Header Mounting to keep 6 mm gap between bottom of panel and track

6 mm (1/4 in) MAX

Adjust Header Mounting

1.5 mm (1/16 in)
Landing Strut Installation

1. Attach the strut assembly to the wall
2. Secure the strut wall to the wall
3. Repeat steps 1-2 for the left strut assembly
4. Ensure all components are properly aligned and secured
Landing Door Panel Linkage

Linkage only used for 2 panels or more

Attach **Fast Bracket** to Fast Door Panel

Attach **Slow Bracket** to Slow Door Panel

**Linkage Assembly**

**Bushing**

**End Bracket & Shoulder Bolt**

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

Ensure brackets are in line when in the open position
Landing Door Linkage Adjustment

1. Move the door panels to fully open position.
2. Ensure door panels are flush with the frame.
3. Adjust bracket if doors are not flush.
4. Adjust linkage if doors are not flush with frame.
5. Repeat steps 1-4 for left Door Panels.

Linkage only used for 2 panels or more.
Interlock Mounting

HSD Landing Door

Adjustment Slot

Interlock Sub Assembly

1. 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)

If door panels are greater than 520 mm (20 in) wide

If door panels are less than 520 mm (20 in) wide

Max 2 mm (3/32 in)

Engage Distance 7 mm (1/4 in)

Adjustment Slots

THE PEELE COMPANY
FREIGHT DOORS | CAR GATES | CAR ENCLOSURES
TECHNICAL SUPPORT 1-800-787-5020 ext 244

12

317
INSTALLATION & MAINTENANCE GUIDE
Set Counterweight

HSD Landing Door

Fix Cable Here

Use a Screwdriver to set the Counterweight before roping

Counterweight inside the square tube
Wire Roping (Counterweight & Unlocking Device)  HSD Landing Door

1. Attach pull cable to center plate of door panel for manual unlocking.

2. Ensure cable is taught (no sag).

3. Approx 300 mm (12 in)

4. North America Unlocking Device

5. Repeat steps 1-2 for left Door Panels

Check the Self Close Feature
Open the door 300 mm (12 in), and let the door free. The door should close automatically and lock in the interlock box.
Header Installation

Fast Door Hanger

Slow Door Hanger

Header Assembly Right Side

Door Tracks

Header Installation

Use Bolt to set distance from Header to Sill

Header Mounting

Large OD Washer

Slot in Mounting Bracket allows the Door Track to move in and out.
Strut Installation

1. Strut Assembly right side

2. Repeat steps 1-2 for left Strut Assembly
Panel Installation

1. Fast Door Hanger
2. Mounting Bolt (Panel may need shim)

Car Door Shoe Spacer insert between door panel and shoe
3. After installing the Shoe Assembly ensure the panel moves freely

After installing the Shoe Assembly ensure the panel moves freely
4. Adjust Header Mounting to keep 6 mm gap (1/4 in) MAX between bottom of panel and track
5. Repeat steps 1-4 for all other Door Panels

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 Mounting to keep 6 mm gap (1/16 in) between bottom of panel and track
Panel Linkage

Linkage Assembly

Attach Slow Bracket to Slow Door Panel

Attach Fast Bracket to Fast Door Panel

End Bracket & Shoulder Bolt

Bushing

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

Ensure brackets are in line when in the open position.
Linkage Adjustment

1. Move the door panels to fully open position and adjust stop bolt.

2. Adjust bracket if doors are not flush with frame.

3. Adjust linkage if doors are not flush with frame.

4. Repeat steps 1-4 for left Door Panels.

Linkage only used for 2 panels or more.
Lock Mounting

1. Remove Brackets

2. Clutch Assembly “A”

Clutch Assembly “B”

Minimum 10 mm (3/8 in)

If Door Panel width is less than 520 mm (20 in) the Clutch will be located in the center of the fast panel.

If Door Panel width is greater than 520 mm (20 in) the Clutch will be off center, towards the back of the fast panel.
1. Close Car Door
   And keep closed

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

3. Install the Belt, ensure the ends are securely fastened inside the clamp.

4. Attach Clutch “A” to belt

5. Attach Clutch “B” to belt

6. Create tension on the belt by adjusting assy. The Belt can have minimal sag.

Adjustment Slots
6 mm
(1/4 in)
Lock Mounting

Re-Attach Kick Out Cam

Lock Release

Open Car Door Panes 50 mm (2 in)
Lock and Operator

HSD Car Door

1. Connect power to the Operator and close the Car Door Panels.
   Refer to Installation Guide 315 HSD Door Operator

2. Switch Mounting Bracket
3. Pins
   Pins to Protrude 6 mm (See step 4 for adjustment)
4. Car Door Lock Switch
5. Locking Arm

Repeat steps 2-4 for Opposite Side Car Door Locking

Emergency Manual Unlocking Cable

To Elevator Controller

Use Bolt to adjust Locking Arm

Door Operator Controller
Landing Door and Car Door in **Locked** Position

**Rollers are free and are resting in the locked position**

**Locking Arm is held in position by the Counterweight**

**Belt Arm is held in position by the Door Operator**

**Landing Door is Locked**

**Fully closed position**

The Belt is held in a stationary position by the Door Operator

**Lock Release Arm wants to rotate down**

**Roller wants to push the Belt Leg closed**

**Counterweight pulls down**

**Tension Spring always pulls in this direction**
Clutch Assembly & How it Works

Landing Door and Car Door in **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.

Maintenance
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

To open Car Door
Belt is being pulled this way by the Door Operator

HSD Car Door

317
INSTALLATION & MAINTENANCE GUIDE

THE PEELE COMPANY
FREIGHT DOORS | CAR GATES | CAR ENCLOSURES
TECHNICAL SUPPORT 1-800-787-5020 ext 244
Light Curtain

HSD Car Door

Cable runs back to Light Curtain Controller. See installation documents inside light curtain box. Typical both sides of car door.

4801 Light Curtain

Main Cable (Blue)

Synchronization (Black)

Rx

Tx

Installation & Maintenance Guide
Finishing Pieces

HSD Car Door

- Filler Middle (4 panel door)
- Filler Middle (6 panel door)
- Sight Guard Showing North America Style
- Toe Guard Support
Panel Clips

HSD Car Door

Adjustable Gap

Install Door Clips to the fast door panels (narrow edge)

Maintenance
Ensure the Door Clips are installed
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

THE PEELE COMPANY
FREIGHT DOORS | CAR GATES | CAR ENCLOSURES
TECHNICAL SUPPORT 1-800-787-5020 ext 244

34 317
INSTALLATION & MAINTENANCE GUIDE
Troubleshooting HSD Car Door

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

Minimum 10 mm (3/8 in)

DIM A + 60 mm = 90 mm
DIM A + 2 3/8 in = 3 9/16 in
DIM A = 30 mm
DIM A = 1 3/16 in

DIM A + 54 mm = 94 mm
DIM A + 2 1/2 in = 3 11/16 in
DIM A = 30 mm
DIM A = 1 3/16 in

6 mm (1/4 in)

See Pg 6

See Pg 20

See Pg 25

See Pg 26

THE PEELE COMPANY
FREIGHT DOORS | CAR GATES | CAR ENCLOSURES
TECHNICAL SUPPORT 1-800-787-5020 ext 244

INSTALLATION & MAINTENANCE GUIDE
Alternate Car Door Locking Arrangement

Detail A

Ensure contacts are no more than 2 mm apart when in the locked position.

7 mm (1/4 in)
Alternate Landing Door Interlock Arrangement

7 mm (1/4 in) DOOR LOCK CONTACT IS OPEN

SWITCH IP_B

BOX IN*ERLOCK ASSEMBLY RH

SECTION A-A

SWITCH IP_B

BOX INTERLOCK ASSEMBLY RH