INSTALLATION INSTRUCTIONS
CONTROL BOX 55956 CONFIGURATION

- Be certain that these supplemental instructions are read and understood completely before installation is attempted. You should also refer to the Service/Owner Manual for additional installation instructions and safety precautions.
- Check contents of this kit and notify Ricon immediately of any missing parts. Claims for damages that have occurred during shipping must be made to the shipper.

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- Under no circumstances is maintenance, repair, or adjustment of the product to be performed without the presence of an individual capable of giving aid.
- This lift is driven with hydraulic pressure generated by a hydraulic pump system. The fluid is highly pressurized and possibly very hot. Use extreme caution when doing maintenance and repairs. DO NOT disconnect hoses or fittings when lift is in motion.
- Give immediate attention to all injuries, and administer first-aid, or seek medical attention as necessary.
- Protective eye shields and clothing should be worn during maintenance, repair, and adjustment of the lift.
- Work in a properly ventilated area.
- Check for hidden obstructions before drilling and cutting. Avoid interference with wiring, fuel tank, fuel lines, hydraulic lines, subfloor members, etc.
- Read and understand all instructions before attempting to operate the product.
- Read and understand all instructions before attempting to perform maintenance, repairs, or adjustments to the product.
- Read and comply with warning labels attached to Lift

I. INTRODUCTION

The following instructions are intended to outline the procedure for configuring Control Box Assy 55956 for Mirage Wheelchair lifts. Control Box Assy 55956 is field configurable for use on any 24vdc Mirage Wheelchair Lift and must be configured prior to use. Refer to “Electronic Controller Replacement” section in the service manual for removal and installation of the control box assy from the Wheelchair Lift prior to continuing with this configuration instruction.

A. TOOLS REQUIRED

#2 Philips Screwdriver

B. PARTS REQUIRED

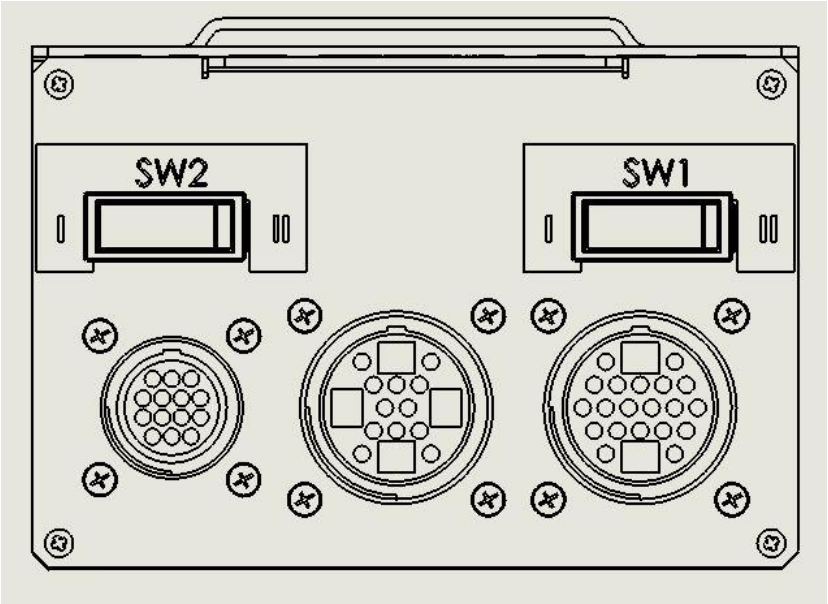
55956 – Control Box Assy, Universal, 24vdc

18700 – Decal, Warranty (Qty 2)

II. CONFIGURATION INSTRUCTIONS

A. F9TF Configuration

Note: The controller should be configured prior to installing the controller into the lift.



1. Using the configuration tables listed below, set the configuration switches as shown for the lift model and controller being replaced.

F9TF 24Vdc			
Item Code	SW 1 (TWS)	SW 2 (Intermediate)	Previous Controller
F9TF-DE001	I	I	32718
F9TF-DE002	I	II	32720
F9TF-DE003	I	II	32720
F9TF-DE004	I	II	32720
F9TF-DE009	I	I	32718
F9TF-DE011	I	I	32718
F9TF-DE013	I	II	36685
F9TF-DE015	I	I	32718
F9TF-DE018	I	II	32720
F9TF-DE019	I	I	32718
F9TF-DE020	I	I	32718
F9TF-DE021	I	I	32718
F9TF-DE022	I	II	32720
F9TF-DE027	I	I	32718
F9TF-DE029	I	II	36685
F9TF-DE030	I	I	32718
F9TF-DE031	I	I	32718
F9TF-DE032	I	I	32718
F9TF-DE033	I	I	32718
F9TF-SG003	I	II	36685
F9TF-SG017	I	II	36685
F9TF-SG019	I	II	36685
F9TH-DE035	I	I	32718

F9TH-DE038	I	II	N/A
F10X-001	I	II	32720-F10X
F10X-002	I	II	32720-F10X

F9T 24Vdc			
Item Code	**SW 1 (TWS)**	**SW 2 (Intermediate)**	**Previous Controller**
F9T-DE001	II	I	18058
F9T-DE002	II	II	22265
F9T-DE003	II	II	22265
F9T-DE004	II	II	22265
F9T-DE007	II	II	22265
F9T-DE018	II	II	22265
F9T-DE021	II	II	22265
F9T-DE025	II	II	29634
F9T-DE026	II	II	29634
F9T-DE027	II	II	22265
F9T-DE028	II	II	29364
F9T-DE029	II	II	22265
F9T-DE030	II	II	29634
F9T-DE031	II	II	29634
F9T-DE033	II	II	22265
F9T-DE034	II	II	29634
F9T-DS002	II	II	29634
F9T-DS003	II	II	22265
F9T-DS004	II	II	22265
F9T-EC001	II	II	22265
F9T-EC002	II	II	22265
F9T-EC003	II	II	22265
F9T-SG003	II	II	29634

2. Once the switches have been configured, place a warranty decal over the switch setting to prevent changing of the setting, making sure the decal is perpendicular to the switch.
3. Install the controller in the lift carriage as shown in the service manual.
4. Install all connectors on the controller.

C. STOW/INTERMEDIATE HEIGHT PROGRAMMNG

NOTE: Do not move configuration switches once configured as instructed above.

The height of platform prior to being pulled into enclosure is referred to as “stow height”. When this height is properly set, the platform will easily enter enclosure without hanging-up. The stow height is factory set and normally does not require resetting after lift installation, except when major lift disassembly is done. However, if the vertical travel limit has been adjusted, then stow height must be reprogrammed.

Most dedicated entry models have an additional platform position referred to as “intermediate height”. This height is generally a few inches below floor height, and is also factory-set. The height may be reprogrammed for specific applications, or after major repair work. Some dedicated entry models move the platform from the ground directly to floor height, without an intermediate stop.

An optional programming switch kit is available to program the stow and intermediate heights into the controller memory. It is Ricon P/N 17885.

NOTE: The stow and intermediate height values are stored indefinitely in the controller memory. Programming the controller will clear the present value and store a new value.

a. To Program Stow Height:

1) Deploy platform to the deployed position.
2) Use manual back-up pump in combination with manual pressure release valve to position top the surface of the platform lifting arms at the same height as the top surface of carriage. This alignment assures that platform can be pushed into enclosure without difficulty.
3) Refer to **Figure 2-15**. Release manual platform lock, and then hand-push platform into enclosure. Stop pushing when front face of white stow guide block (tear-drop shaped plastic block) is adjacent to front edge of enclosure. The stow guide block will be visible from front of lift.

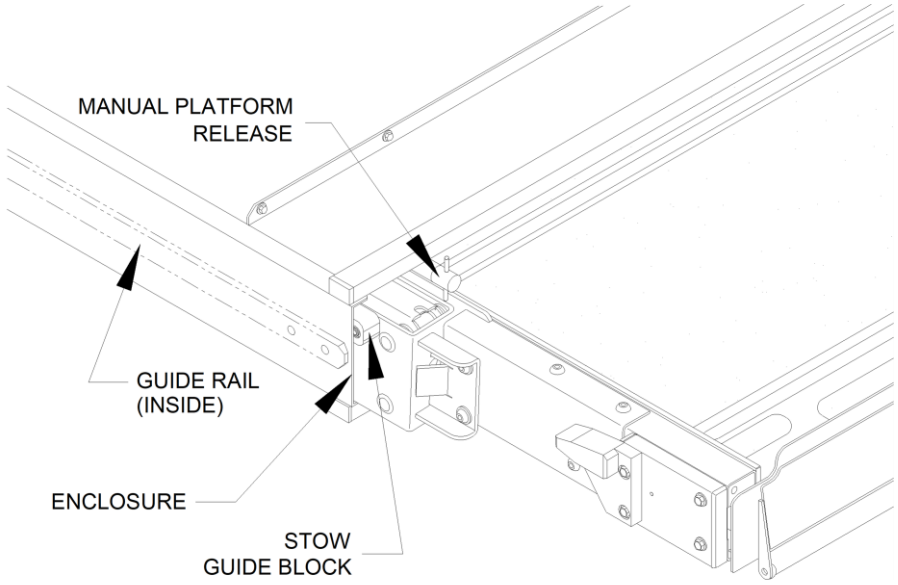


FIGURE 2-15: STOW GUIDE BLOCK ALIGNMENT

4) Lower platform by opening manual pressure release valve (located on pump assembly), and let stow guide blocks (left side and right side) settle on guide rails. Close valve.
5) Raise platform with manual back-up pump so that both left and right side stow guide blocks are approximately 1/32 inch above guide rails.
6) Hand-pull platform completely out of enclosure; the platform must lock in place to assure accurate data entry. Check lock by attempting to push platform into enclosure; it must not move.
7) Refer to **Figure 2-16.** The mating connector for the programming switch is attached to the underside of the controller bracket. The connector is protected with a removable plug. Connect programming switch to connector.

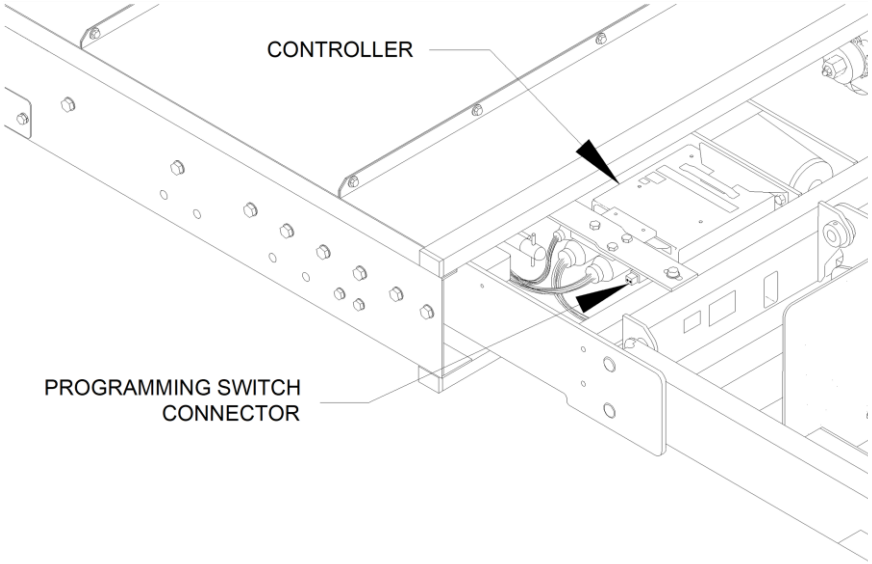


FIGURE 2-16: PROGRAMMING SWITCH CONNECTOR

8) Press the DEPLOY button three times (DEPLOY button is in the upper left corner of control pendant). Press the programming switch button for approximately 20 seconds to program stow height. Disconnect programming switch and replace plug.

NOTE: The programming switch is enabled for a period of 5 minutes after the DEPLOY button is pressed three times. The programming mode is ended when any other button is used during this period.

NOTE: The following two steps might lower the platform to a point slightly below the programmed stow height, which is acceptable.

9) Use pendant to raise platform at least one foot above stow height.

10) Stow platform from this raised position and stop its movement when platform has entered enclosure approximately six inches.

NOTE: The following two steps might raise platform to a point slightly above the programmed stow height, which is acceptable.

11) Use pendant to deploy platform and lower it at least one foot below stow height.

12) Stow platform from this lowered position and stop its movement when platform has entered enclosure approximately six inches.

13) Repeat steps nine and ten.

b. Program the Intermediate Height (Dedicated Entry model, only**)**

⚠ CAUTION
Ricon recommends that stow height be programmed before intermediate height.

NOTE: This procedure may require use of manual back-up pump to raise platform because the UP button (on pendant) may be disabled. The DOWN button can be used to lower platform.

1) Use pendant to deploy platform.

NOTE: The platform must be fully deployed before controller can accept an intermediate height value.

2) Raise platform to height preferred for intermediate position; this height must be at least two feet above stow height.

NOTE: (F9TF-DE019) Raise platform height up until the top of the 11” bridgeplate is approximately 4” under wheelchair lift bus door. Use Bridgeplate Height Gauge Tool P/N (56279).

3) Refer to **Figure 2-15**. The mating connector for the optional programming switch is attached to the underside of the controller bracket. The connector is protected with a removable plug. Connect programming switch to connector.

4) Press the DEPLOY button three times (DEPLOY button is in the upper left corner of control pendant). Press the programming switch button for approximately 20 seconds to program intermediate height. Disconnect programming switch and replace plug.

NOTE: After the DEPLOY button is pressed three times, there is a time period of 5 minutes during which the programming switch is enabled. Programming will be disabled if any other button is used during this period.

5) Verify that programmed intermediate position is correct by stowing platform, then deploying and raising it to intermediate height.

NOTE: It is acceptable for the intermediate position to vary +/- ½ inch from the programmed height.

REVISION HISTORY

Date	Rev. Level	Description	Name
08/28/18	D	Added Model F9TH and F10X to matrix	L. Cervera
12/21/18	E	Added Stow/Intermediate height programming instructions. Added note for configuration switches	L. Cervera