

This quick guide provides steps for installing the receiver and setting up a FLR3-400 key fob with a Fuelight™ Gen 3 display.

Installing the Receiver

1. Using a flat-head screwdriver, open the digit face to access inside the digit cabinet.
2. Remove both antenna hole plugs from the digit face. Refer to **Figure 1**.
3. Place the receiver on to the mounting studs on the back of the digit face. Refer to **Figure 2**.
4. Use a $\frac{5}{16}$ " nut driver to secure the receiver to the mounting studs using the two provided nuts.
5. Place the threaded end of the antenna cable through the antenna hole.
6. Place the flat washer over the threaded end of the antenna cable. Refer to **Figure 2**.
7. Thread the provided nut on to the threaded end of the antenna cable and tighten using an $\frac{11}{32}$ " wrench.
8. Thread the female end of the antenna on to the threaded end of the antenna cable and turn the antenna clockwise until snug. Refer to **Figure 2**.
9. Connect the receiver cable from receiver to the driver. Refer to **Figure 3**.
10. Neatly secure any excess cable with cable ties.
11. Close and secure the digit face.

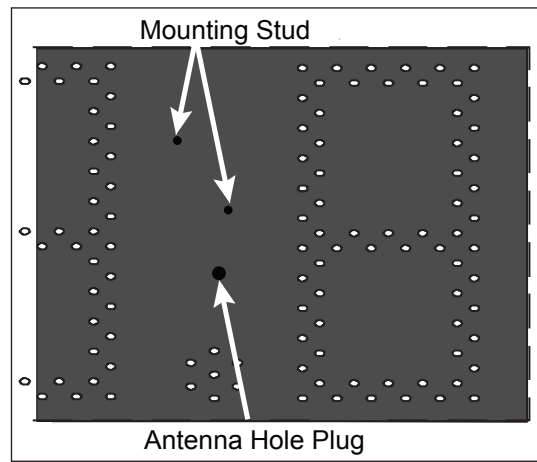


Figure 1: Digit Door Receiver Mounting Overview

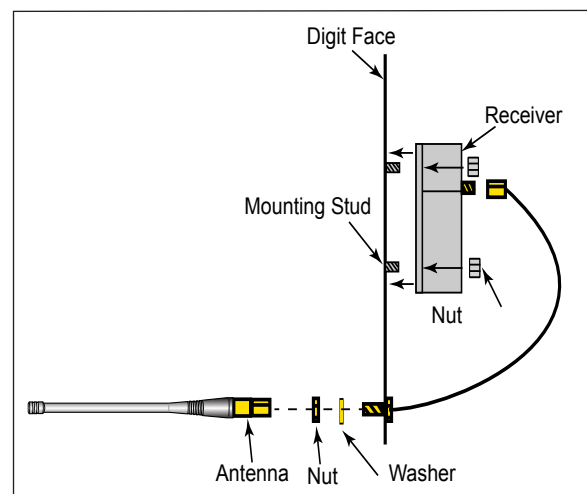


Figure 2: Mounting Profile

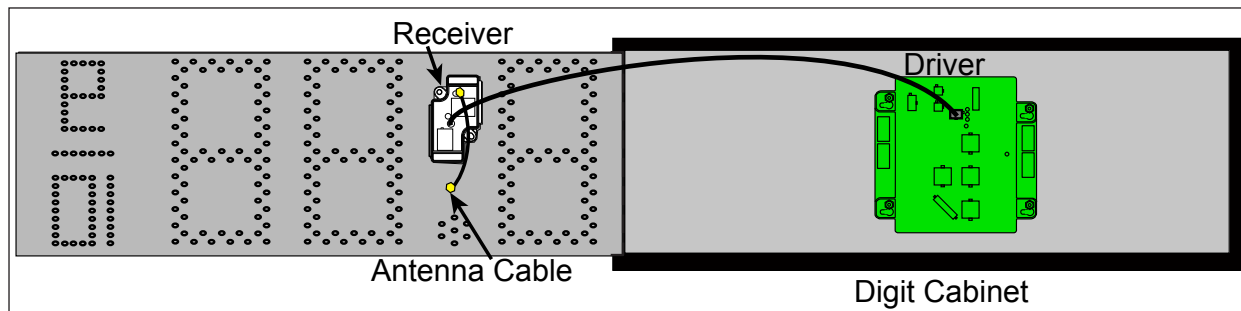


Figure 3: Final Receiver Assembly

Setting the Security DIP Switches

The FLR3-400 key fob has a series of dip switches on the back to give it a unique address setting. Set these switches to a unique setting to prevent others from being able to control your display.

1. Remove the small cover on the back of the FLR3-400 key fob radio. Refer to **Figure 4**.
2. Using a paper clip or a micro screwdriver, set the switches to a unique setting.

Note: Do not change switches nine and zero.

3. Replace the back cover.

Mating the Key Fob with the Display

Follow these steps to mate the display with the FLR3-400 key fob. If these steps are not completed, the display will not recognize or respond to the key fob.

1. Turn power on to the display.
2. While display is booting up, or within 5 minutes, press and hold Line one Plus (+) and Minus (-) keys until the decimal flashes 3 times. Refer to **Figure 4**.
3. Once the decimal point flashes 3 times, release the buttons.

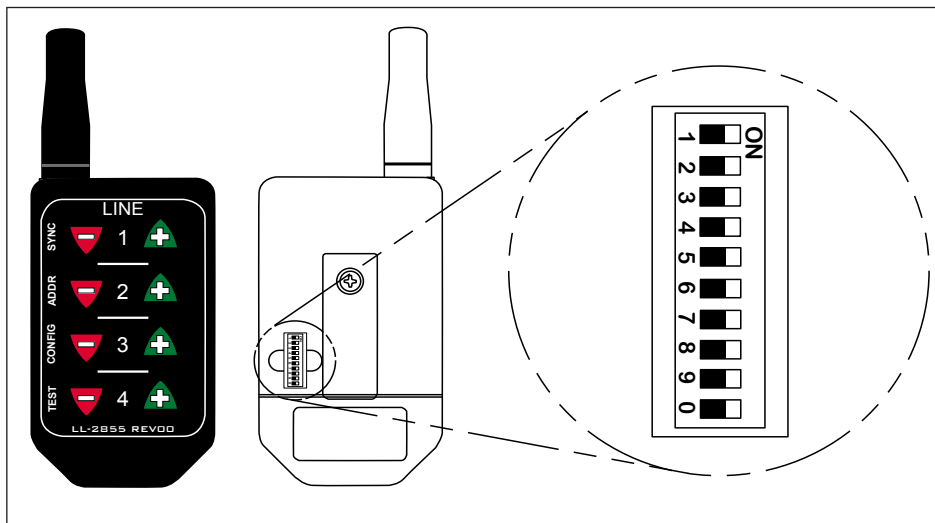


Figure 4: FLR3 Key Fob

Setting the Display Line Numbers

Follow these steps to map the line number for each display. It is important that each display is set for the correct line number for it to show the correct price.

1. Make sure the display is turned on.
2. Press and hold the -2 and +2 buttons on the key fob until the host display face begins to dim and brighten or the decimal begins to flash. This takes about five seconds.

Note: The host display is the display with the radio antenna connected to it.

3. While the display slowly flashes, press the +2 button until the appropriate line number is shown on the display (L01, L02, etc).
4. Once the line number is set, press and hold the -2 and +2 buttons until the next display face begins to slowly flash.
5. Repeat these steps until all display faces have been correctly mapped.

Note: If a display gets set incorrectly, complete the process with the remaining displays then repeat to correct.

- Exit configuration mode by pressing and holding the -2 and +2 buttons until the displays show prices and they no longer flash; about five seconds.

Note: All displays are programmed with a default price matching their line number. Use this to easily identify that all displays are addressed correctly.

Number Configuration

This section steps you through configuring the numbers six and nine and the fraction display preferences.

- Make sure display is turned on.
- Press and hold the -3 and +3 buttons on the key fob until all displays show the numbers 6 and 9. The number scheme will be either 3.69 9/10 or 4.69 9/10. Refer to **Figure 5**.

- Press the Plus (+) or Minus (-) keys to scroll through the different configuration options.

Note: For Domestic displays with a 9/10s digit, the number 3 needs to show in the first column for the desired format. For International displays, make sure the number 4 shows in the first column for the desired format.

International displays offer two configuration options - tails and 9 and no tails and 9, as shown in **Figure 6**.

- When the desired configuration is shown on the displays, press and hold the -3 and +3 buttons to exit configuration mode.

Entering Test Mode

Entering test mode causes the displays to cycle through various pieces of information that can be useful when working with Daktronics Technical Support.

- Press and hold the Plus (+) and Minus (-) keys on line four of the key fob until the displays begin cycling through test mode.
- Exit test mode by pressing and holding the Plus (+) and Minus (-) keys on line four until the displays return to showing prices; approximately five seconds.

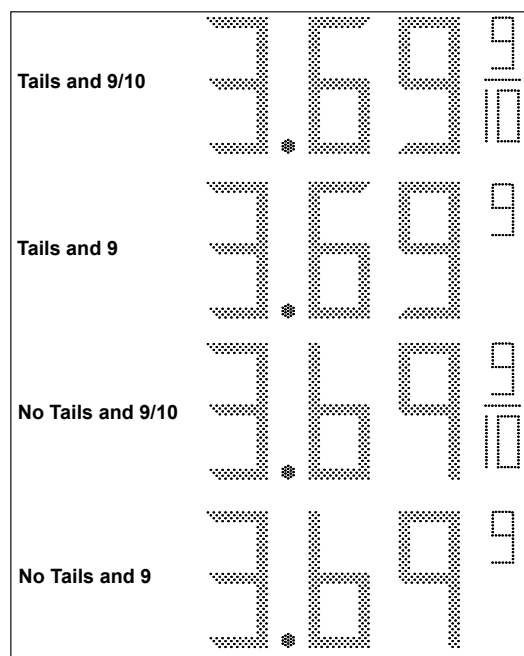


Figure 5: Digit Configurations

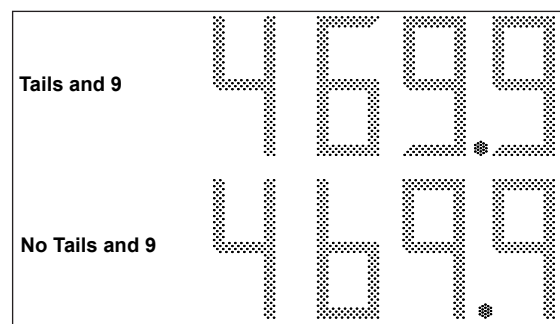
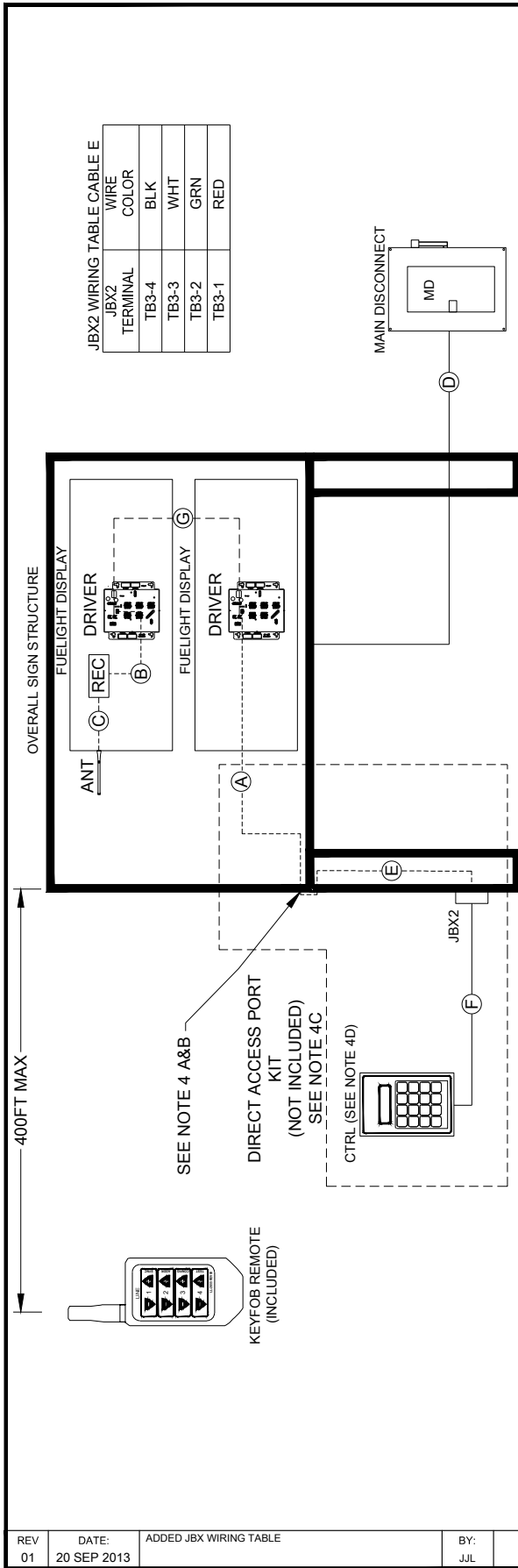


Figure 6: International Digit Configuration



COMPONENT IDENTIFICATION TABLE

COMPONENT	DESCRIPTION	PROVIDED BY	INSTALLED BY
DRIVER	FUELIGHT DRIVER	DAKTRONICS	FACTORY
MD	MAIN DISCONNECT	CUSTOMER	CUSTOMER
KEYFOB REMOTE	KEYFOB REMOTE	DAKTRONICS	CUSTOMER
REC	KEYFOB REMOTE RECEIVER	DAKTRONICS	CUSTOMER
JBX2	OPTIONAL JBOX, DIRECT ACCESS PORT	DAKTRONICS	CUSTOMER
CTRL	OPTIONAL WIRED DIM-100 PRICE/T&T CONTROLLER	DAKTRONICS	CUSTOMER
ANT	KEYFOB REMOTE RECEIVER ANTENNA, FLR3-400	DAKTRONICS	CUSTOMER

CABLE IDENTIFICATION TABLE

ID TAG	DESCRIPTION	PROVIDED BY	INSTALLED BY
A	OPTIONAL QUICK CONNECT PNL MNT TO 6 POS MINI MNL, 8FT	DAKTRONICS	CUSTOMER
B	HARN; 6 PIN MINI MNL TO 6 PIN MINI MNL, 5FT	DAKTRONICS	CUSTOMER
C	CABLE-ANTENNA-RP-SMA FEM BULKHEAD TO RP-SMA MNL, 12	DAKTRONICS	CUSTOMER
D	POWER FEEDER SEE NOTE "1"	CUSTOMER	CUSTOMER
E	HARN; 6 POS QUICK CONNECT TO WHIP; 50FT (NOT INCLUDED)	DAKTRONICS	CUSTOMER
F	CABLE; RS232 DB9 MALE TO DB9 FEMALE; 10FT	DAKTRONICS	CUSTOMER
G	CABLE; LINE TO LINE; 4 POS MINI MNL, 15 FT	DAKTRONICS	CUSTOMER

NOTES:

- POWER FEEDER SIZED AS NEEDED, BY CUSTOMER. ALL WIRING TO MEET OR EXCEED LOCAL AND NATIONAL ELECTRICAL CODES.
- 2 KNOCKOUTS PROVIDED FOR 3/4" CONDUIT FITTING ON REAR OF DISPLAY FOR POWER AND SIGNAL ENTRANCE.
- REFER TO MANUAL FOR LINE-TO-LINE WIRING BETWEEN DISPLAYS.
- INSTALL OPTIONAL QUICK CONNECT PANEL IN THE SIGN STRUCTURE NO MORE THAN 8 FEET FROM THE DISPLAY DRIVER. DRILL 7/8" HOLE IN SIGN STRUCTURE TO PASS CONNECTIONS THROUGH. USE INCLUDED BUSHINGS WHERE APPLICABLE.
- RUN OPTIONAL QUICK CONNECT CABLE PROVIDED WITH DIRECT ACCESS PORT THROUGH 3/4" CONDUIT TO THE SIGN STRUCTURE. SEE JBX WIRING TABLES FOR WIRE TERMINATIONS.
- OPTIONAL DIRECT ACCESS PORT KIT NOT INCLUDED IN FLR3-400 KIT.
- OPTIONAL WIRED CONTROLLER NOT INCLUDED IN FLR3-100 KIT OR DIRECT ACCESS PORT KIT.
- JBX2 CONNECTION IS NOT TO BE USED WITH A LAPTOP.
- SEE DWG-1092852 FOR OPTIONAL DIRECT WIRED COMM OPTION AND WIRING DIAGRAM.
- ADDITIONAL PYLONS REQUIRE ADDITIONAL FLR3-400 KITS.

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PROJ: GEN III FUELIGHT TITLE: RISER DIAGRAM; FLR3-400 DESIGN: LSOPER DRAWN: LSOPER DATE: 12 SEP 12		
SCALE: NONE		
SHEET 1 OF 1	REV 01	JOB NO. P1611
FUNC-TYPE-SIZE R-01-A		1113268

REV	DATE:	ADDED JBX WIRING TABLE	BY:
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