A. Identifying Flex EX and Flex EX2 Transmitters

Flex EX

Flex EX2

B. How-to install an I-Chip into a Flex EX2 Transmitter

1) Remove the batteries from the transmitter.
2) Loosen the back enclosure screws and then remove the back cover.
3) Remove the ESTOP screw and red ESTOP cap.

4) Remove the encoder board screws.
5) Take the encoder board out and flip it over to reveal the I-Chip port.
6) Insert the I-Chip, then secure it using the 2 small black screws.

7) Insert the encoder board back into the enclosure, then secure it with the encoder board screws.
8) Put the red ESTOP cap back in place and then screw it down.
9) Put the back cover on and tighten the screws to secure the enclosure.
10) Put the batteries back in and then screw the battery cover down.
C. Transmitter Dipswitch Settings when an I-Chip is installed:

1) The Flex EX2 transmitter will enter a “legacy mode” when an I-Chip is installed. The dipswitches will then function similarly to the Function Dipswitch on the original Flex EX transmitters. The dipswitch settings for the Pushbutton Function are seen below.
   a. Flex EX Transmitter: 00000000 ~ 11111100
   b. Flex EX2 Transmitter: 00000000XX ~ 11111100XX

**NOTE:** Refer to the appropriate Flex EX manual for more information about the Pushbutton Function Dipswitch Settings.

D. Replacing a Flex EX Transmitter with a Flex EX2 Transmitter:

1) Remove the I-Chip from the Flex EX transmitter.
2) Install the I-Chip into the Flex EX2 transmitter. (see section C on how to install the I-Chip)

**NOTE:** The serial number and channel will be transferred via the I-Chip. The Flex EX2 transmitter dipswitches are not used to set the channel. See Section C for more information on the dipswitches when an I-Chip is installed.

E. Pairing a Flex EX2 Transmitter to a Flex EX Receiver:

1) Program an I-Chip to match the serial number and channel settings on the Flex EX receiver.
2) Install the I-Chip into the Flex EX2 transmitter. (see section B on how to install the I-Chip)

F. Pairing a Flex EX Transmitter to a Flex EX2 Receiver:

1) Not possible. Flex EX2 receivers are only compatible with Flex EX2 transmitters.

G. Configuring a Flex EX2 Transmitter with a Flex IR Programmer:

1) Ensure the power switch key is set to the OFF (0) position.
2) With the red STOP button elevated, press and hold PB1 and PB3 at the same time.
3) Rotate the power switch key to the ON (1) position.
4) Release PB1 and PB3 at the same time. The transmitter Status LED will now display the firmware version with red, green and orange blinks. The transmitter is now in Remote Pairing Mode.
5) On the Flex IR Programmer, navigate to Flex EX gen2
6) You should now be able to READ and WRITE by pointing the top of the Flex IR Programmer at the Status LED on the transmitter
7) Consult the IR Programmer Instruction Manual (part number 191-00424-0002) for information on the full list of settings.
H. **Flex EX2 Transmitter–to–Flex EX2 Transmitter Pairing:**

1) Ensure the power switch key is set to the OFF (0) position.
2) With the red STOP button elevated, press and hold PB1 and PB3 at the same time.
3) Rotate the power switch key to the ON (1) position.
4) Release PB1 and PB3 at the same time. The transmitter Status LED will now display the firmware version with red, green and orange blinks.
5) Repeat steps 1-4 on the other transmitter. This will put both transmitters in Remote Pairing Mode.
6) Press and Hold PB2 (Status LED off) on the original transmitter to output data. At the same time, Press and Hold PB1 (Status LED blinks green) on the new transmitter to receive data.
7) The pairing is completed when the Status LED on the new transmitter turns to constant green.
8) Exit Remote Pairing Mode by rotating the power key switch to the OFF (0) position on both transmitters.

**NOTE:** During remote pairing make sure the distance between the two transmitters is within 1 meter.

I. **Flex EX2 Receiver–to–Flex EX2 Transmitter Pairing:**

1) **JP8 Open Method**
   a. On the transmitter, ensure the power switch key is set to the OFF (0) position.
   b. With the red STOP button elevated, press and hold PB1 and PB3 at the same time.
   c. Rotate the power switch key to the ON (1) position.
   d. Release PB1 and PB3 at the same time. The transmitter Status LED will now display the firmware version with red, green and orange blinks. The transmitter is now in Remote Pairing Mode.
   e. On the receiver, ensure JP8 is open and then apply power.
   f. Press and hold the PAIRING button located on the receiver cover to output data. At the same time, Press and Hold PB3 on the transmitter to receive data.
   g. The pairing is completed when the Status LED on the transmitter turns to constant green.
   h. Exit Remote Pairing Mode by rotating the power key switch on the transmitter to the OFF (0) position.
2) **JP8 Short Method**

a. On the receiver, ensure a jumper is installed on JP8 and then apply power.
b. On the transmitter, ensure the power switch key is set to the OFF (0) position.
c. With the red STOP button elevated, press and hold PB1 and PB3 at the same time.
d. Rotate the power switch key to the ON (1) position.
e. Release PB1 and PB3 at the same time. The transmitter Status LED will now display the firmware version with red, green and orange blinks. The transmitter is now in Remote Pairing Mode.
f. Press and Hold PB3 on the transmitter to receive data from the receiver. There is no need to press the PAIRING button on the receiver. Shorting JP8 bypasses this step.
g. The pairing is completed when the Status LED on the transmitter turns to constant green.
h. Exit Remote Pairing Mode by rotating the power key switch on the transmitter to the OFF (0) position.

**NOTE:** For both methods, make sure the pairing process is executed within a distance of 10 meters from one another and no other active receivers are nearby. During the pairing process, the receiver MAIN relays must be deactivated (relay open). For tandem systems, make sure the receiver is not locked to any of its existing transmitters.

**J. Replacing a Flex EX-RS Transmitter with a Flex EX2-RS Transmitter:**

- **Type B**
- **Type C**
- **Type D**
- **Type E**
- **Type F**
I-Chip settings needed for the Types above:

Serial number
Channel
Type = 01

Dip Settings:

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**Type B:** 01000 000XX (non-interlock)
           01000 010XX (interlock)

**Type C:** 00100 000XX (non-interlock)
           00100 010XX (interlock)

**Type D:** 00010 000XX (non-interlock)
           00010 010XX (interlock)

**Type E:** 00001 000XX (non-interlock)
           00001 010XX (interlock)

**Type F:** 00000 100XX (non-interlock)
           00000 110XX (interlock)

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Email: sales@tsoverheadcrane.com
Web: www.tsoverheadcrane.com