



Flex EX2

Radio Control Equipment Quick Reference Manual



Part Number: 191-50000-M000F R00

May 2018

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SERVICE INFORMATION

Your New Radio Remote Control System

Thank you for your purchase of Magnetek's Flex EX2 Radio Remote Equipment Control. Magnetek has set a whole new standard in radio remote performance, dependability, and value with this unique new line of handheld transmitters.

If your product ever needs modification or service, please contact one of our representatives at the following locations:

U.S. Service Information

For questions regarding service or technical information contact:

1-866-MAG-SERV

(1-866-624-7378)

International Service

262-783-3500

World Headquarters:

Magnetek, Inc.
N49 W13650 Campbell Drive
Menomonee Falls, WI 53051

Telephone: 800-288-8178

Website: www.magnetek.com

E-mail: mhcustomerservice@magnetek.com

Fax Numbers:

Main: 800-298-3503

Sales: 262-783-3510

Service: 262-783-3508

Canada Service Information:

161 Orenda Road
Unit 1
Brampton, Ontario
L6W 1W3 Canada
Phone: 800-792-7253
Fax: 905-828-5707
416-424-7617 (24/7 Service pager)

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PRODUCT MANUAL SAFETY INFORMATION

Magnetek, Inc. (Magnetek) offers a broad range of radio remote control products, control products and adjustable frequency drives, and industrial braking systems for overhead material handling applications. This manual has been prepared by Magnetek to provide information and recommendations for the installation, use, operation and service of Magnetek's material handling products and systems (Magnetek Products). Anyone who uses, operates, maintains, services, installs or owns Magnetek Products should know, understand and follow the instructions and safety recommendations in this manual for Magnetek Products.

The recommendations in this manual do not take precedence over any of the following requirements relating to cranes, hoists and lifting devices:

- Instructions, manuals, and safety warnings of the manufacturers of the equipment where the radio system is used,
- Plant safety rules and procedures of the employers and the owners of facilities where the Magnetek Products are being used,
- Regulations issued by the Occupational Health and Safety Administration (OSHA),
- Applicable local, state or federal codes, ordinances, standards and requirements, or
- Safety standards and practices for the overhead material handling industry.

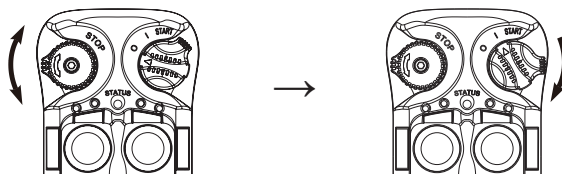
This manual does not include or address the specific instructions and safety warnings of these manufacturers or any of the other requirements listed above. It is the responsibility of the owners, users and operators of the Magnetek Products to know, understand and follow all of these requirements. It is the responsibility of the owner of the Magnetek Products to make its employees aware of all of the above listed requirements and to make certain that all operators are properly trained. **No one should use Magnetek Products prior to becoming familiar with and being trained in these requirements.**

WARRANTY INFORMATION

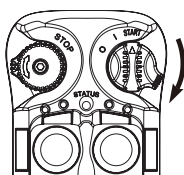
FOR INFORMATION ON MAGNETEK'S PRODUCT WARRANTIES BY PRODUCT TYPE, PLEASE VISIT WWW.MAGNETEK.COM.

General Operating Procedures

1. Reset the STOP button, located on the top left corner of the transmitter, by rotating it clockwise or counterclockwise. The button will pop up. Turn on the transmitter power by inserting the power switch key and rotate to the ON (I) position.



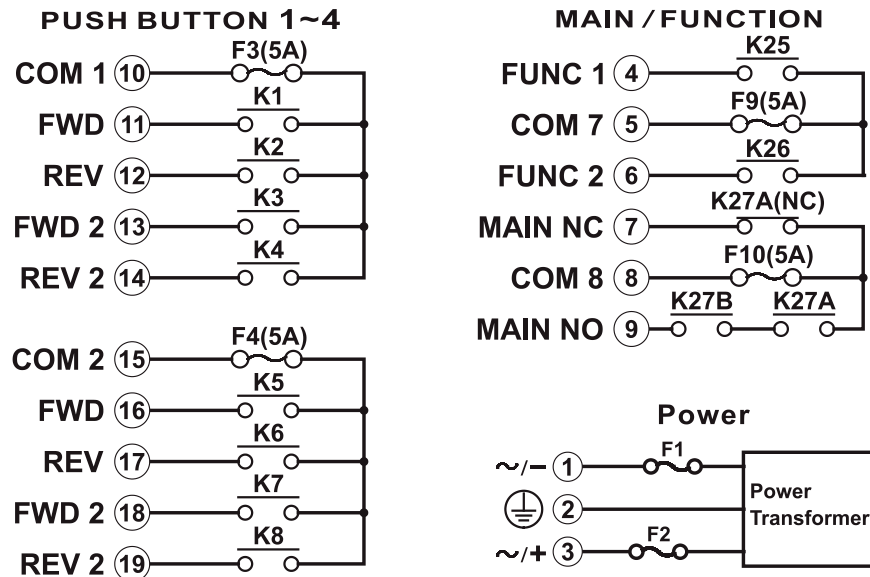
2. After turning on the transmitter power, check the Status LED on the transmitter for any sign of system irregularities (refer to manual section: Transmitter Status LED Indications). If the transmitter is in good working order the Status LED will display solid green for up to 2 seconds at power on (no faults detected).
3. Rotate the power switch key further to the START position and hold it there for up to 2 seconds (Status LED solid green). When the receiver MAIN relays are activated, the Status LED will change from solid green to solid orange (system on). The power switch key will retract back to the ON (I) position when released. The same START position becomes an auxiliary function thereafter (refer to manual section: START + AUX Function). Pressing any pushbutton prior to executing the START command at system startup will result in no signals transmitted (Status LED blinks orange). During transmitter inactivity (pushbuttons not pressed), the transmitter will automatically switch to standby mode, with an orange blink on the Status LED at every 4-second interval. Turn off the transmitter power when not in use to save battery power.



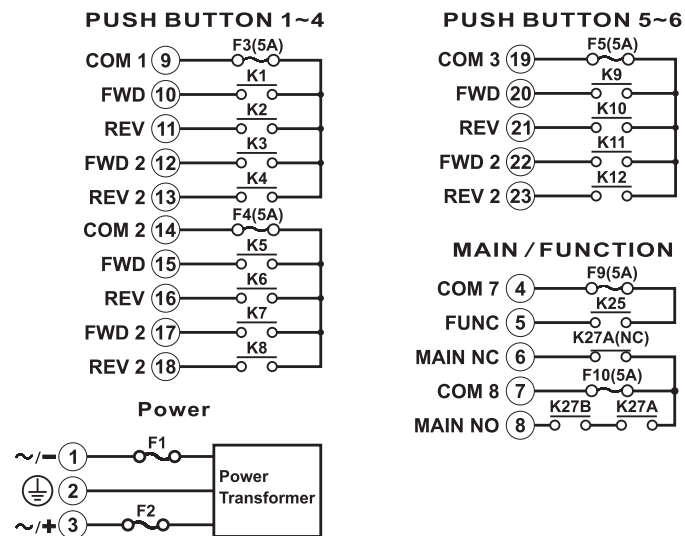
4. In case of an emergency, press down the STOP button to disconnect the receiver MAIN relays (Status LED blinks 3 reds and then shuts off). To resume operation, rotate the STOP button clockwise or counterclockwise. The button will pop up. Then execute the START command to reconnect the receiver MAIN relays. For safety, executing the START command is strictly required every time the transmitter is turned on or after every STOP button reset. After 5 minutes of inactivity (pushbutton not pressed), the receiver MAIN relays are temporarily disconnected (refer to manual section: Inactivity Timer Settings). The Status LED blinks 3 reds and then shuts off. Execute the START command to resume operation (refer to manual section: Start Function Settings). Turn off the transmitter power by rotating the power switch key counterclockwise to the OFF (0) position; it will disconnect the transmitter power and the receiver MAIN relays altogether. Rotate the power switch key further counterclockwise to release the key.

Output Relay Contact Diagrams

Flex 4EX2 Model

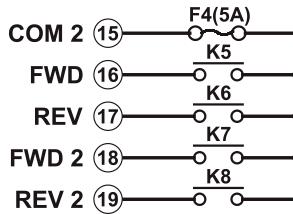
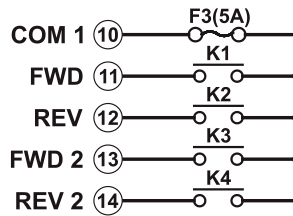


Flex 6EX2 Model

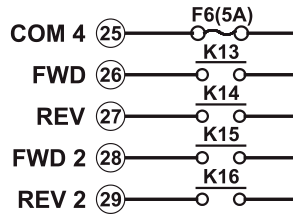
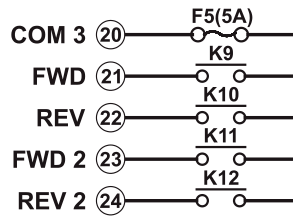


Flex 8EX2 Model

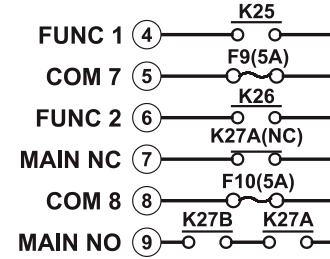
PUSH BUTTON 1~4



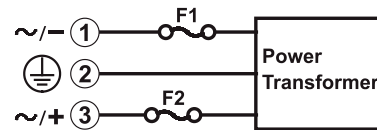
PUSH BUTTON 5~8



MAIN / FUNCTION

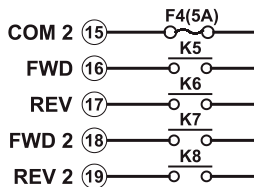
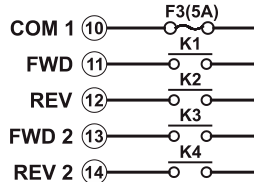


Power

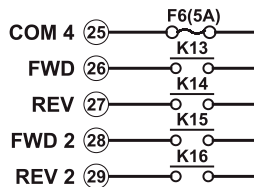
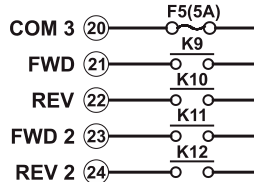


Flex 12EX2 Model

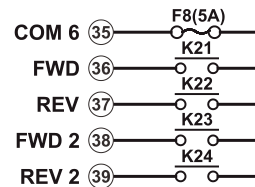
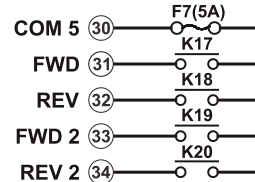
PUSH BUTTON 1~4



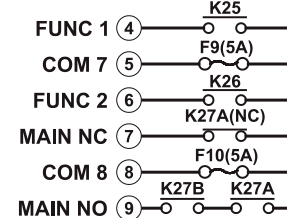
PUSH BUTTON 5~8



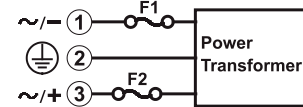
PUSH BUTTON 9~12



MAIN / FUNCTION

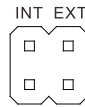


Power



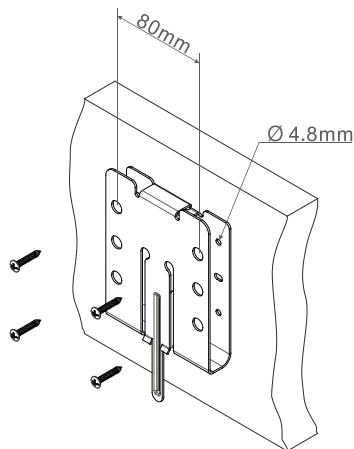
Receiver Installation

1. For best reception, the location of the receiver should be visible to the operator at all times.
2. The location selected should not be exposed to high levels of electric noise. Mounting the receiver next to an unshielded variable-frequency drive may cause radio interference. Always locate the receiver as far away from variable-frequency drives and electric motors as possible.
3. When installing an external antenna, make sure the MCX jack located on the RF/decoder board inside the receiver is connected and the jumper is set to EXT position.

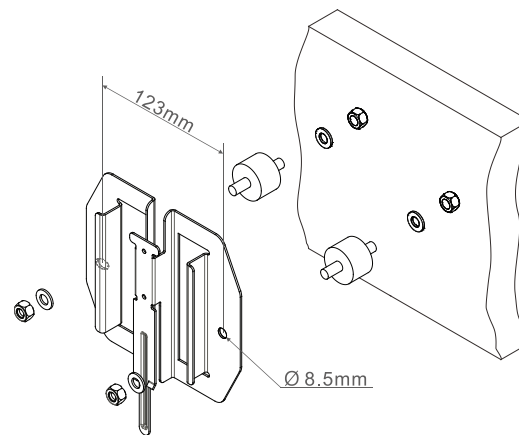


4. Make sure the receiver is in an upright position.
5. Drill four (4) holes for mounting bracket type 1 and two (2) holes for mounting bracket type 2 on the control panel, wall or location where the receiver is to be installed.
6. Make sure the screws, bolts or rubber mounts are tightened after installation.

Mounting Bracket Type 1

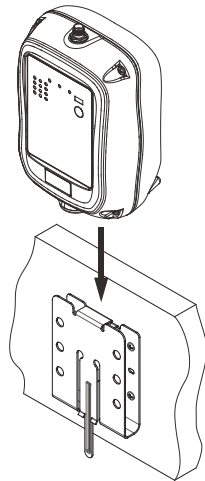


Mounting Bracket Type 2



7. Slide the receiver down along the guided track to secure the receiver to the mounting bracket.
8. Remove the receiver by pressing down the bracket release and pull the receiver upward until it clears the guided track.

Install



Remove

