

RF340-TM40A

Instruction Manual



Included in this Kit:

- (1) RF340-TM40A Receiver
- (1) 5-Button RF Transmitter with 2-digit display
- (1) Long Range Antenna LRA340

Available accessories:

- Additional Transmitter T-SC-12V-WPT
- 6-Pack of Replacement A-23 12V Batteries A23-6

IMPORTANT

MAKE SURE BOTH TOGGLE SWITCHES ARE TURNED TO THE "OFF" POSITION PRIOR TO CONNECTING POWER

The RF340-TM40A is a 12VDC Polarity Reversing Remote Control with speed control and is designed to provide variable speed bidirectional control of DC motors. Output relays rated at 40A @12VDC. The output is a latching connection. Pressing the up or down arrow button starts the motor and it will continue to run until the stop button is pressed. This control incorporates a waterproof transmitter. By utilizing pulse width modulation, the output voltage and thus the speed of the DC motor can be varied from 1% to 74% power in 1% increments. When the control reaches 75% power it will run at full speed. The receiver is housed in a metal enclosure and the electronics are encapsulated for waterproofing. The control is suitable for use in harsh environments. Operating temperature range - 0°F to 160°F. Up to 30 transmitters can be used with each receiver. The control uses code learning to program transmitters. Transmit range is greater than 300 feet under normal operating conditions. Additionally, there is a 3 position switch which allows the receiver to be operated without using the remote transmitter. The control will run at full speed when the manual control is used.

Maximum Ratings: Power for the receiver can be in the range of 10 to 15VDC. The receiver is reverse polarity protected. The relay contacts are rated at 40 Amps @ 13.8Vdc.

Power consumption: 10mA when the relays are de-energized, 45mA when the relay is energized.

Input Power Connection: 12VDC power connects to the 12V and Ground terminals. Transmitter uses an A23 battery.

Output Connection: The output of the receiver is connected to the motor + & - terminals.

Transmitter Operation: The two arrows next to the display adjust the speed of the motor. Pressing the up or down arrow button starts the motor and it will continue to run until the stop button is pressed. The 2 arrow buttons next to the display control the speed in increments of 1%.



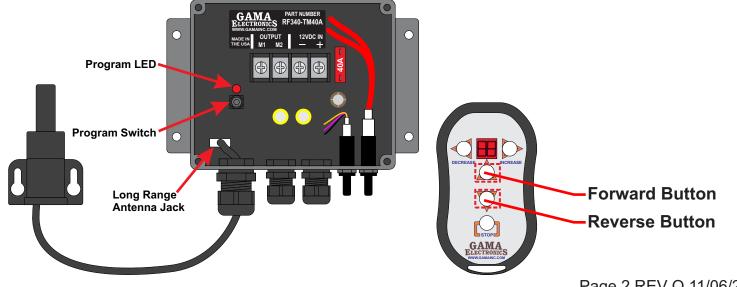
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Programming Instructions

Each transmitter has its own unique internal address along with the data as to which button is pressed and transmitted. The receiver needs to be programmed to respond only to the specific transmitter it is intended to operate with. The following steps configure the receiver to operate with a particular transmitter. Up to 30 transmitters can be programmed to one receiver. Please read the entire programming procedure before starting. When the receiver enters program mode, all previous transmitter addresses that were programmed will be erased from the receiver's memory.

- 1. Locate the pushbutton labeled "PROGRAM" on the receiver. Press and hold this button until the red LED next to the program button illuminates (approximately 3 seconds). The receiver is now in the transmitter program mode. Release the button. At this point all previously programmed transmitter addresses are erased from the receiver's memory.
- 2. While the program LED is illuminated, press and release the up or down button on the transmitter. The LED will blink once to indicate the transmitter was received.
- 3. Repeat previous step for additional transmitters that will operate with this particular receiver. The red LED on the receiver will extinguish and illuminate (blink) once for the first transmitter being programmed, twice for the second, three times for the third, etc. The receiver will not respond to transmitters that have already been programmed.
- 4. The receiver will return to normal mode if no transmitter buttons are pressed for 5-seconds. The red LED on the receiver will blink rapidly, then extinguish. The receiver is now in the normal mode of operation. This completes the programming instructions. The receiver will retain all of its programming even when power is removed.

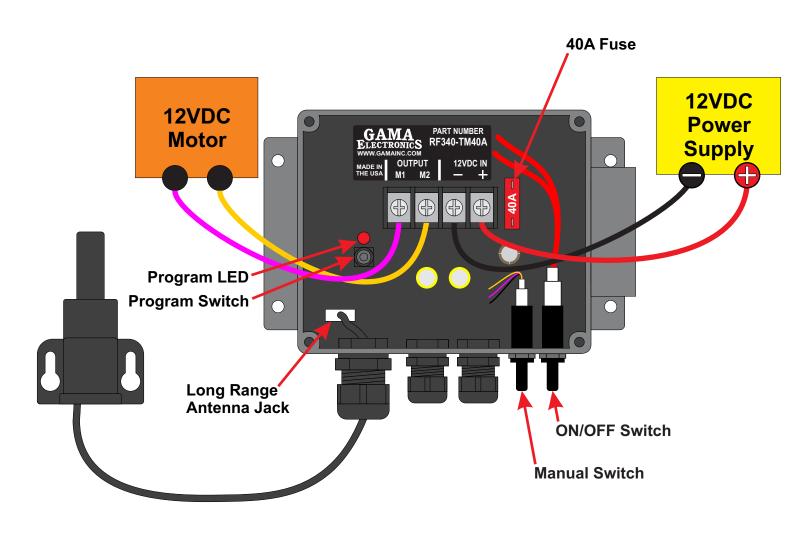




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Wiring Diagram





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Troubleshooting

All remote-control systems shipped by GAMA Electronics are 100% functionally tested just prior to shipment.

If your RF remote control system does not work out of the box, stops working or functions intermittently please take the following steps to resolve common issues. Please note that you must be 2-3 feet away from the receiver when operating the remote control. Operating within 2-3 feet may result in no operation or intermittent operation.

1.Replace the A23 12V Battery in the transmitter

•The remote control can activate during shipping and drain the battery that is installed in the control. We send a replacement battery with the system if this occurs.

2. Check the fuse on the receiver.

•The receiver has a 40A ATC fuse for over current protection. If the output exceeds 40A the fuse will blow to protect the control.

3. Check the voltage supply at the receiver

•The receiver is designed to function at 10-15VDC. Voltage on the (+) and (-) terminals on the control should be within this range.

4. Reprogram the remote control

·If the system is non-functional try to reprogram the remote control. The program may not have taken during the programming process or the program button may have been pressed. If the program button is pressed the memory of the remote controls programed to the receiver are erased.

5.Listen and look for functionality on the receiver.

•The LED that is used for programming the system will illuminate when the receiver is activated. You will also hear a "click" when the internal relays engage. If you can see the LED illuminate and you hear the relay "click" the issue is most likely in the wiring or device being controlled.