

### Overview:

The model 80A-SC speed control is designed to operate 12VDC 2-wire polarity reversing motors. The control operates using a 12VDC power source. It is housed in a rugged IP-66 NEMA4 enclosure. All internal electronics are encapsulated in urethane potting material for high resistance to moisture and vibration. The system is controlled using 3 switches located on the front face of the control. The switch on the left controls the power to the motor. The center switch will adjust the speed the motor will run at and the switch on the right will adjust the direction of the motor. As a safety precaution, a thermal detector is used to reduce the output speed if the control reaches an unsafe operating temperature level. The control returns to normal operation once the control returns to a safe operating temperature.

### Optional R.F. Remote Control:

There is a waterproof connector included on the assembly. An optional R.F. remote control kit can be purchased to add remote control functionality to the speed control. Plug the R.F. connector into the waterproof connector, program the remote control to the system and you will be able to control the speed with either the remote control or the manual switches.

### Remote control programming:

The receiver needs to be programmed (or paired) to respond only to specific transmitter(s) it is intended to operate with. The following steps configure the receiver to operate with a particular transmitter(s). Up to 30 transmitters can be programmed to one receiver. Please read the entire programming procedure before starting. Prior to programming the receiver, verify that the receiver is properly installed.

To program the remote control to the speed control follow the steps listed below:

1. Make sure the R.F. receiver is plugged into the waterproof connector and tightened down.
2. Toggle the power to the OFF position. Toggle the direction switch to the center OFF position.
3. Hold down the STOP switch on the remote control.
4. While holding the STOP switch, toggle the power switch on the speed control to ON. The control will click 1 or 2 times. (1 click signifies that the control is in momentary mode, 2 clicks indicate it is in latching mode). Release the stop switch. This will place the control in program mode, you have 5-seconds to perform step 5.
5. For momentary operation press the UP arrow on the remote control. You should hear the speed control click one time. For latching operation press the DOWN arrow on the remote control. You should hear the speed control click two times.
6. Perform step 5 for additional transmitters to be programmed.
7. Wait 5 seconds for the control to exit the program mode.
8. The remote control is now ready to use.
9. If it is desired to erase all transmitters from the receiver's memory, first perform Step 4. After the click sounds release the STOP button. Now press and hold the STOP switch again until three click sounds occur (around 5 seconds). At this point all transmitters are erased and the programming mode ends.

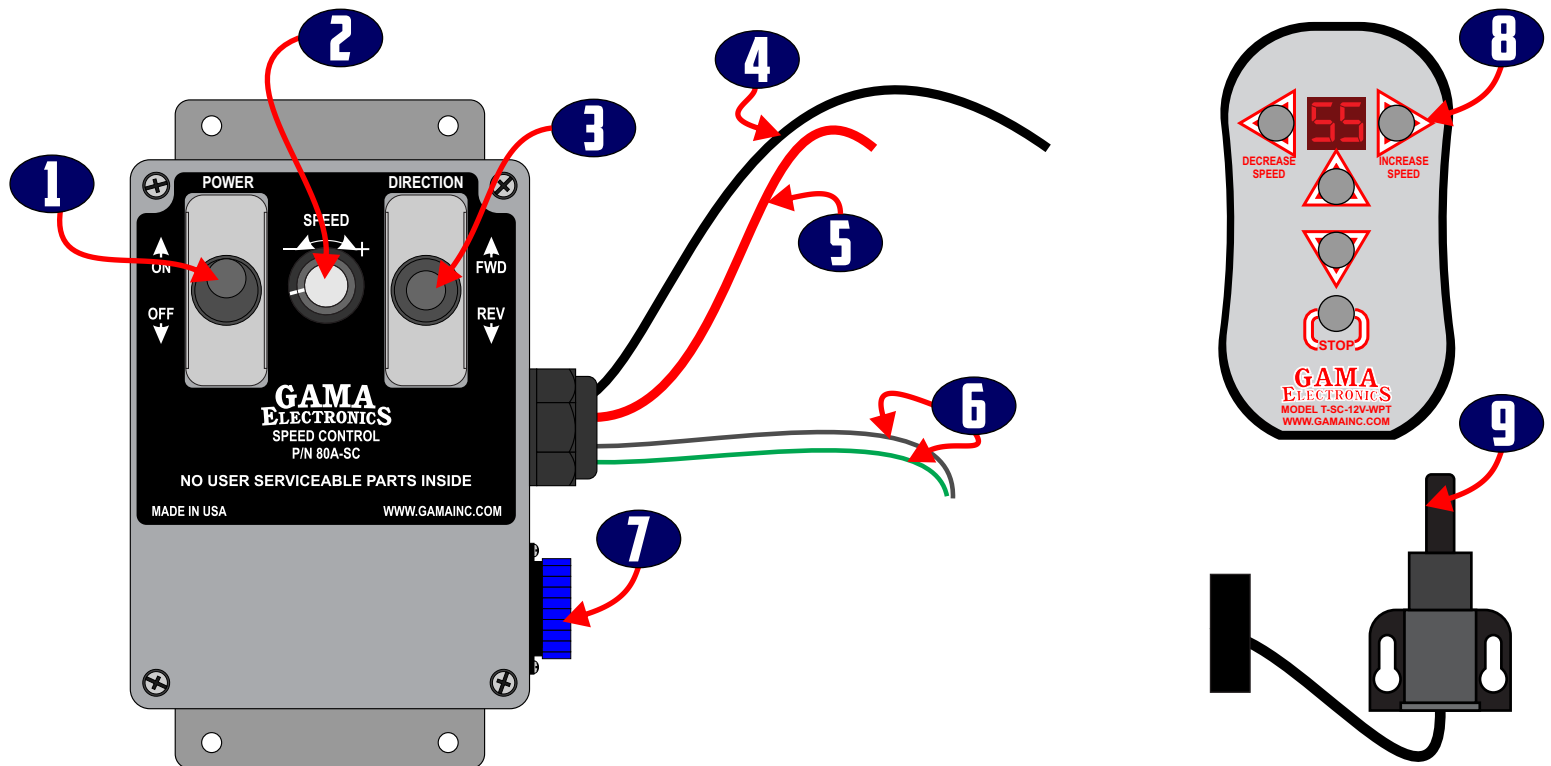
**NOTE: The manual switches override the remote control functions. The remote will only function with the power switch toggled ON and the direction switch toggled to the center OFF position.**

**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 80 Amps @ 12Vdc.

**Input Power Connection:** 12VDC Power connects to the Red (+) and Black (-) Wire Leads.

**Output Connection:** The White and Green Wire Leads connect to the motor.

**NOTE: THERE ARE NO USER SERVICEABLE PARTS INSIDE THE SPEED CONTROL. OPENING THE ENCLOSURE WILL VOID THE WARRANTY**



1. Power Switch – 2 Position Toggle Switch
  - a. Toggle Up for ON
  - b. Toggle Down for OFF
2. Speed Adjustment
  - a. Turn counterclockwise to decrease speed
  - b. Turn clockwise to increase speed
3. Direction switch – 3 Position Toggle Switch
  - a. Center position if OFF
  - b. Toggle Up for FORWARD
  - c. Toggle Down for REVERSE
4. Black Wire Lead
  - a. Connect to -12VDC on power source
5. Red Wire Lead
  - a. Connect to +12VDC on power source
6. Green and White wire leads
  - a. Connect to motor
7. Optional R.F. Remote Control Connector
  - a. Plug R.F. receiver into connector to add remote control functionality
  - b. \*\*Requires GAMA Electronics R.F. Kit P/N LRA340-WPK\*\*
8. Optional R.F. Remote Control Transmitter
9. Optional R.F. Remote Control Receiver