

600DC Instructions

70 amp max start boost

35 amp continuous duty use

BUTTON 1 - ON OFF

BUTTONS - 2,3,4,5,6 SPEED CONTROLS IN 5TH INCREMENTS

BUTTON 7 - BLAST FEATURE OR FULL POWER FOR 5 SECONDS

BUTTON 8 - STOP

YOU MUST HAVE A REGULATED DC POWER SUPPLY DIRECT TO THE BATTERY OR YOU WOULD HAVE TO DIODE PROTECT THE POWER WIRE to protect the circuit.

THE GROUND WIRE MUST BE DIRECT TO THE BATTERY

THE RF-600DC WIRELESS MOTOR CONTROLLER PROVIDES RPM CONTROL FOR A SINGLE 2 POLE MOTOR THAT CAN OUTPUT UP TO 70 AMPS FOR UP TO 2 SECONDS AND CONTINUOUS AMPERAGE OF 35 AMPS. THE SPEED OR RPM CONTROL IS DONE BY PROVIDING THE USER 5 OUTPUTS APPROXIMATELY 1/5 OF THE MAXIMUM MOTOR RPM THE RF-600DC ALSO INCORPORATES A FULL RPM FEATURE THAT RUNS THE MOTOR AT FULL SPEED FOR 6-8 SECONDS AND THEN AUTOMATICALLY SHUTS OFF AND AN E-STOP.

TO PROTECT THE MOTOR AND ELECTRONICS THE RF-600DC HAS BUILT IN SAFETY CIRCUITS. THESE INCLUDE.

1. AUTOMATIC SHUTDOWN IF THE MOTOR IS LOCKED UP.
2. AUTOMATIC SHUT OFF IF THE CURRENT DRAW DOES NOT DROP BELOW 70 AMOS AFTER 5-6 SECONDS. THE RECEIVER WILL NOT REBOOT FOR UP TO 30 SECONDS WHEN ONE OF THESE INSTANCES OCCUR.

WARNING: IF THESE SITUATIONS KEEP OCCURING THE OPERATOR NEEDS TO CHECK FOR REASONS WHY THE MOTOR WILL NOT OPERATE CORRECTLY (IE JAMMING DAMAGED MOTOR...) CONTINUALLY TRYING TO START A JAMMED MOTOR WILL EVENTUALLY CAUSE DAMAGE TO THE MOTOR RECEIVER OR BOTH.

POWER GOES FROM 12 VOLT DC SOURC TO 1 TERMINAL OF THE MOTOR THEN TO THE RECEIVER (RED WIRE).

GROUND FROM 12 VOLT SOURCE GOES DIRECTLY TO THE RECEIVER (BLACK WIRE)

RUN A WIRE FROM THE OTHER OPEN POLE ON THE MOTOR TO THE BLUE WIRE ON THE RECEIVER

Set-up of transmitter to base unit. You should only need to do this if you replace the battery in your transmitter. Otherwise unit is preprogrammed.

Please follow these steps

- Power up the base unit
- On the backside of the 8 button transmitter remove the small black rectangle shaped cover to the left of the belt clip. Using a paperclip depress the small black button inside and release. (if working properly a blue light in the transmitter will blink)
- Flip the transmitter over and push each button individually to send the address to the receiver / base unit.
- THEN WAIT UNTIL THE BLUE LIGHT STOPS BLINKING AND PROCEED.
- Go to the receiver / base unit (take cover off) and push the learn address button next to the LED. The red LED will begin to flash
- Again push each button on the transmitter to save that unique address.
- Push the black button on the receiver / base unit to end the programming mode and the red LED will stop flashing.

Your Controller is now ready for use.

Battery Replacement

The transmitter uses a standard lithium button cell battery. In normal use it will provide 1 to 2 years of operation. To replace the battery, gently pry the battery cover off. Remove the battery by sliding it out from underneath the retainer. Observe the battery polarity when replacing. Once the battery is replaced, repeat the above steps to set a new address between the transmitter and the receiver / base unit.

Other Considerations

Only one transmitter at a time can be activated within a reception area. Only one carrier of a particular frequency may occupy the same airspace at a given time. This means that if two transmitters are activated in the same area at the same time the signals will interfere and the decoder on the receiver will not see a valid transmission and the RF-500 will not function.