

SPECIAL OPERATIONAL INFORMATION ON CANNON  
SUPER-MICRO SYSTEMS AND FLITE PACKS

8/1/80

Information contained in the Cannon Instruction Manual for Proportional Control Systems applies except for the special instructions noted below:

1. Although the Super-Micro Receiver is extraordinarily small, it offers the same range and operational capabilities as larger equipment. Therefore, it can be used in any size aircraft or glider.
2. This receiver is designed for smaller aircraft and is equipped with a 30 inch antenna. If antenna is shortened, the RF coil must be retuned to match. Expect reduced range with a shorter antenna.
3. Tuning instructions are included with all Flite Packs so you can peak-tune Rx and obtain optimum operation of this equipment with your own transmitter. In such case, please follow instructions carefully.
4. Of paramount importance in operation of the Super-Micro Receiver with other makes of transmitters is the timing of the Receiver-Decoder so that it will operate properly with your own transmitter. Factory timing on the receiver is adjusted so that it will work properly with a standard Tx of 8-9 milliseconds sync pause. This timing is controlled by resistor R10, normally 4.7K.
5. Many transmitters have a shorter sync pause, such as Pro-Line (4 milliseconds) and some Kraft models (5-8 milliseconds), etc.
6. When the Receiver-Decoder on the Super-Micro Receiver does not operate, it is because of this timing differential. The simplest cure is to send in your transmitter when ordering a Flite Pack. Cannon R/C will then adjust receiver timing to correspond (no extra charge, except shipping).
7. Should your transmitter have a shorter sync pause than the receiver is adjusted for, a resistor change in the receiver may be required. For example, Pro-Line transmitters require that R10 be 2.7K ohms. Others may vary between 2.7K and 3.3K. 1/8 watt resistors are recommended for this change. Since the receiver is very small, use extreme care in replacing parts.
8. Micro plugs used on the standard Super-Micro System are polarized, so they can not be plugged in backwards. However, use caution that you do not connect a 2-pin plug to a 3-pin plug. This could result in burn-out of receiver or servo components, (not covered by warranty).
9. Super-Micro servos are designed with external centering adjustment. Follow standard procedure in your Instruction Manual for centering and reversing servo direction. Use extreme care when reassembling servos so that shorts do not occur, and servo case fits properly over parts.
10. If you are using your Micro servos in a high-vibration environment, such as pylon racers, we recommend opening the servo case and applying silicone rubber compound to all wires and electronic circuitry where vibration might cause shorts or failures to occur.
11. Wires used on all Micro components are #29 size, 52 strands. Such wires may be more subject to vibration, breakage or damage than larger size wire. Because of this, use special care (and silicone rubber compound where helpful) to protect wires from fracture.
12. If plug change is made on Micro servos, be absolutely certain that correct polarity is observed on plugs. Warranty does not cover wiring mistakes.
13. Vibration in small, hi-RPM models may be even more harmful than in larger models. Make certain that all units (Rx, servos, battery) are properly shock-mounted to prevent vibration and/or crash damage.
14. For lightest weight installations, receiver and batteries may be removed from their cases. Make certain adequate foam protection is provided.
15. These powerful Micro servos have been used successfully in gliders of 10 foot wing span and in Quarter-Midget Pylon Racers (one of which now holds the National Speed Record). With care, these servos can adequately handle 40-powered aircraft - or .010 if you prefer!

