INSTRUCTIONS FOR THE MINIMAC ALL-TRANSISTOR TONE RECEIVER.

SPECIFICATIONS.

Overall size of case ... 2" x 1.3/8" x 3/4"

Total weight ... 1 oz.

Receiver voltage ... 3 volts maximum.

Receiver current ... 1 - 5 m.a.

Actuator voltage ... 1.1/2 - 6 volts.

Actuator current ... 500 m.a. continuous

l amp. maximum

Temperature stability ... 30 - 120° F.

Actuator coil resistance ... 8 - 14 Ohms.

Relay coil resistance ... 30 - 100 Ohms.

INTRODUCTION.

The Minimac is a 5-transistor super-regenerative single channel tone receiver. It may be coupled direct to a rubber or clockwork driven actuator, motorised actuator, servo motor or low resistance relay. The receiver has the advantage of being practically immune from pulse interference by relay contacts and motor commutators. For marine use, where a large 12-24 volt electric motor is used for the main drive, no interference will be experienced providing the motor is suppressed as recommended by the manufacturer, and the receiver is positioned at least 6 inches from the motor. At all times the aerial lead must be suspended as far away as conveniently possible from any actuator, electric motor, batteries and their respective wiring.

RECEIVER MOUNTING RECEIVER Moon and the strong plastic case to protect The receiver is supplied in a strong plastic case to protect The receiver is suggested that a suitable compartment the components. It is suggested that a suitable compartment the components.

the components. is made in the model aircraft the receiver should be date same. For model aircraft the receiver should be date same. date same. should mounted vertically with the components facing the front,

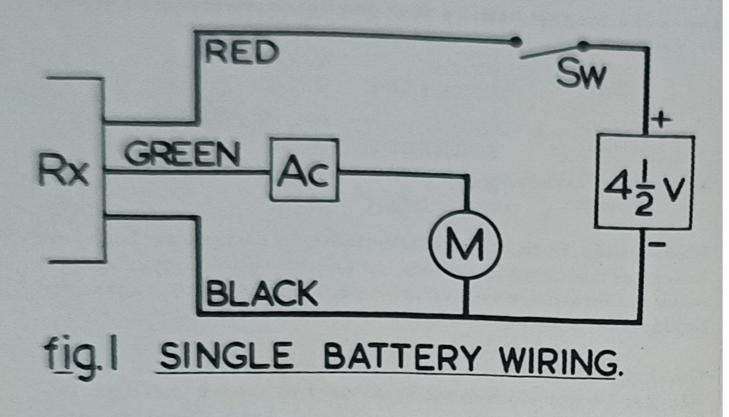
TRANSMITTERS. TRANSMITTED.

The Minimac receiver may be operated with any simple, The Minimac leader of the capable of providing single valve tone transmitter which is capable of providing single valve tone in the order of 700 c.p.s. Transmitters a good, stable tone in the order of 700 c.p.s. Transmitters agood, stable constant carrier wave with keyed tone or may be either constant carrier wave with keyed tone or may be either carrier and tone keyed simultaneously. Tested ground range carrier and tollow carrier and t

WIRING.
There are two methods by which the Minimac receiver may be connected to the batteries.

be connected with simple sequential rubber or clockwork For operation $4\frac{1}{2}$ volt battery supply may be used driven actuators, a single $4\frac{1}{2}$ volt battery must be discounted. as shown in Fig 1. The battery must be discarded however, when down to a level of $3\frac{1}{2}$ volts ON LOAD.

When used with $l^{\frac{1}{2}}$ volt electric motors, 3 volt actuators when used $4\frac{1}{2}$ - 6 volt servo motors or with a relay, the two battery system as shown in Fig 2. is strongly recommended. With this method, the sensitivity of the receiver is in no way effected by the high current drain of the actuator batteries as it is operating from its own separate 3 volt battery supply. The life of this battery is considerable and in consequence, it is advisable to check from time to time for it must be finally discarded when down to a level of $2\frac{1}{2}$ volts ON LOAD.



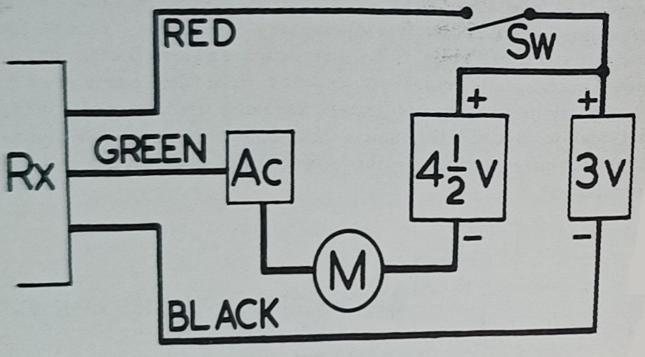


fig.2 TWO BATTERY WIRING.

