

The actual tuning of the receiver is as follows: - Connect the H, T and L, T battery - in the H, T line at position M. 1. Switch on, and note the meter reading which should be approximately 1 m/a. Rotate the variable resistor control with the aid of a miniature screwdriver. Moving from zero in an anti-clockwise direction will cause a fall in current. Adjust the variable resistor to the point at which the current is just about to fall. Switch on the transmitter and keying slowly on and off, adjust the receiver tuning coil slug until a fall in current is noted when the transmitter is on. Continue keying the transmitter and adjusting the tuning slug for maximum fall in current. This will be approximately from 1 m/a to 0.3 m/a.

Now connect the actuator, actuator battery and re-position the meter (with shunt) to position M. 2 as shown in the wiring diagram. Without the transmitter switched on, the meter should now read practically zero. If not adjust the variable resistor in an anti-clockwise direction to reduce it to zero. Here the most sensitive point is that at which the current is just about to rise. Key the transmitter and the current should rise, causing the actuator to operate. Adjust the tuning slug in order to obtain the maximum rise in current. This will be approximately 300-400 m/a according to the type of actuator. Check the variable resistor for correct adjustment to the most sensitive point and repeat the tuning procedure at 50 and 100 yards. Finally, continue checking for maximum range.

Tuning will now remain constant but the variable resistor should be checked and adjusted occasionally to correct any battery variation.

Providing you have carefully constructed this receiver in accordance with all our instructions we are confident you will obtain positive results without the slightest difficulty. Even so, it is quite possible that due to a silly error you may not at first obtain the desired results. It will be appreciated, it is almost impossible for us to assist you without actually seeing the unit. At this stage therefore we can only make the following practical suggestions.

1. Check again that the receiver has been correctly assembled and soldered with all the components in their correct places.
2. Check that the wiring of the receiver to the batteries and ancillary equipment is as shown in the wiring diagram. Above all, check that the wiring connections are properly soldered to the various units.
3. Check that the batteries are not run down below the recommended operating voltages. At all times voltages should be checked ON LOAD that is with the equipment switched on.
4. Check that the transmitter being used to test this receiver is, in actual fact, operating properly.

If, after making these simple tests and the results are still unsatisfactory please DO NOT EXPERIMENT unless you have the necessary test equipment and know what you are doing. Do not seek advice of the so-called 'Expert', both invariably lead to further unnecessary damage. Write immediately to us or send the receiver to our Service Department.

SERVICE AND REPAIRS

Our Service Department are prepared to offer every possible assistance if you have any difficulties constructing or operating this receiver and we strongly advise you to take full advantage of this inexpensive service.

Simply return to the RECEIVER UNIT ONLY, together with a letter clearly stating your name and address and the trouble you are experiencing. We must point out, however, even if the unit is found to be satisfactory, or requires only a minor repair it still involves checking and testing, and IT MUST BE ACCOMPANIED BY A REMITTANCE OF 10/-d. This is our minimum Service Charge to cover same, together with the return packing and postage. If upon receipt of the unit, however, we consider the repair likely to be more extensive we will write to you with an explanation, together with our quotation for the repair. Upon receipt of your acceptance, together with the extra remittance, the receiver will be repaired. All repairs are dealt with as quickly as possible and under normal circumstances are usually completed within seven days.

MACGREGOR INDUSTRIES LIMITED
LANGLEY - BUCKS - ENGLAND

