

MODS

IMPORTANT—The ideas presented here are suggestions only, and as they are untried by this magazine, we cannot accept responsibility for any resultant damage, however caused. Before alterations are attempted, care should be taken to ensure that any guarantee is not invalidated, and it should also be borne in mind that modifications usually have an adverse effect on resale prices. In cases where specialist skills or equipment are needed, most dealers will undertake the work for a reasonable fee.

Roger Hall G8TNT(Sam)

No. 6

Trio TR-2300

This month's column is devoted to the ever popular TR-2300. Bill, G8UNN, wrote to ask me if I knew of a reverse repeater mod for this set and so I contacted Steve, G8VEF, at Lowe Electronics, and he has supplied the following information.

First, take off the cover of the set on the loudspeaker side and locate the AUX switch, it has a brown wire and a white wire attached to its rear tags (Fig. 1). The original mod suggested removing these wires and tucking them back into the loom, and then adding new wires as in Fig. 1. Steve has pointed out that if the wires are cut approximately 25mm back from the switch at the points marked "X" in Fig. 1, they can then be used instead of two new pieces of wire. As Steve said, this means that you only have to make two soldered joints and not four, which in this instance is a good idea because there is not much room on this switch as there are many other wires attached to it, although for the sake of clarity they have not been shown in the diagram. When the set is operating on the REPEATER position of the bandswitch, this mod gives instant reverse repeater operation whenever the AUX switch is pressed.

Following on from this, Gareth, GW4KJW, has written in with what he calls a mod of a mod, and he says, although it does not contribute anything to the performance of the set, it does make use of something that is otherwise left unused.

When the set has been modified for reverse repeater, there is a small l.e.d. to the left of the AUX button that remains permanently off because it was originally designed to show that a crystal controlled channel had been selected,

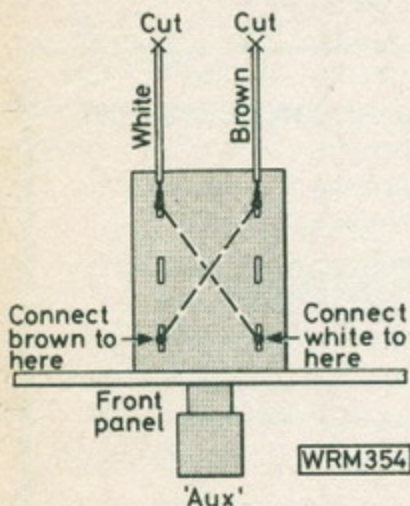


Fig. 1

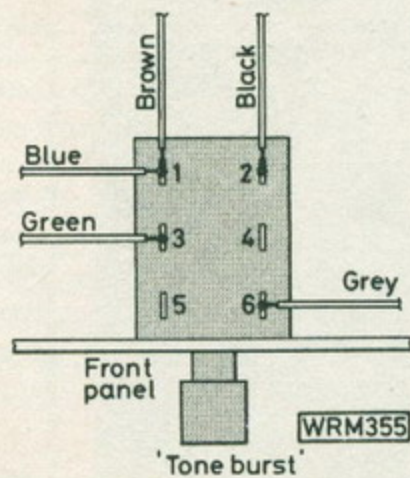


Fig. 2

but now that the AUX button has a different function, the l.e.d. has nothing to do. Gareth suggests using it as a toneburst indicator to give a visual indication that the toneburst is switched on.

To do this, the top cover should be removed and the blue wire unsoldered from the three-position dial light slider switch. This wire should then be fed back through the wiring loom and soldered to Pin 1, the rear left-hand pin of the toneburst switch (Fig. 2).

This mod lights the l.e.d. for as long as the toneburst is switched on, except on transmit, when the l.e.d. is off while the p.t.t. is depressed.

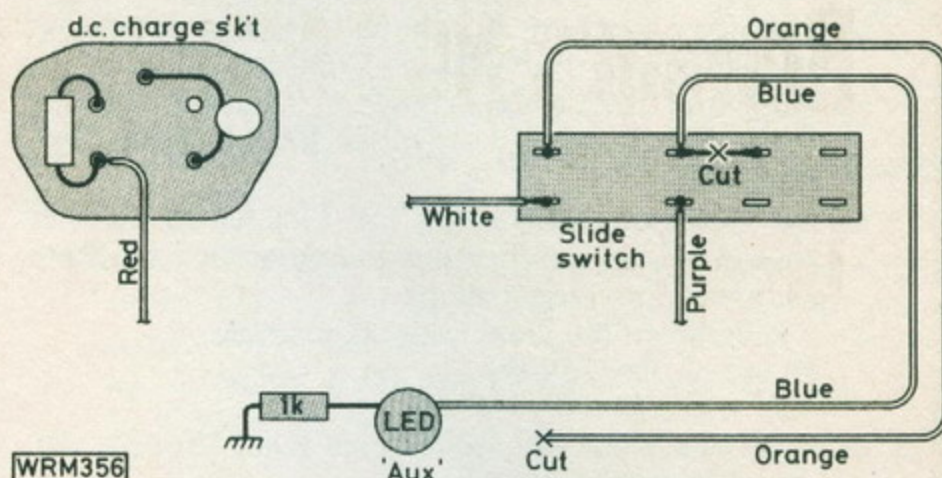


Fig. 3

The last mod this month was devised by G8JLE, but was given to me by Lowe Electronics. This mod makes use of the same l.e.d. as the last one but this time it is used to give a visual indication of battery charge, and needless to say, it is not possible to carry out both of these mods on the same set! Fig. 3 shows the original charge socket, and the original three-position dial light slider switch. Fig. 4 shows how the two have to be modified and interconnected. The orange wire has to be removed from the top left-hand pin and attached to the top right-hand pin and then cut some way away from the switch and that end soldered to the side of the l.e.d. that has a 1kΩ resistor soldered to it. The resistor is then cut off and not used.

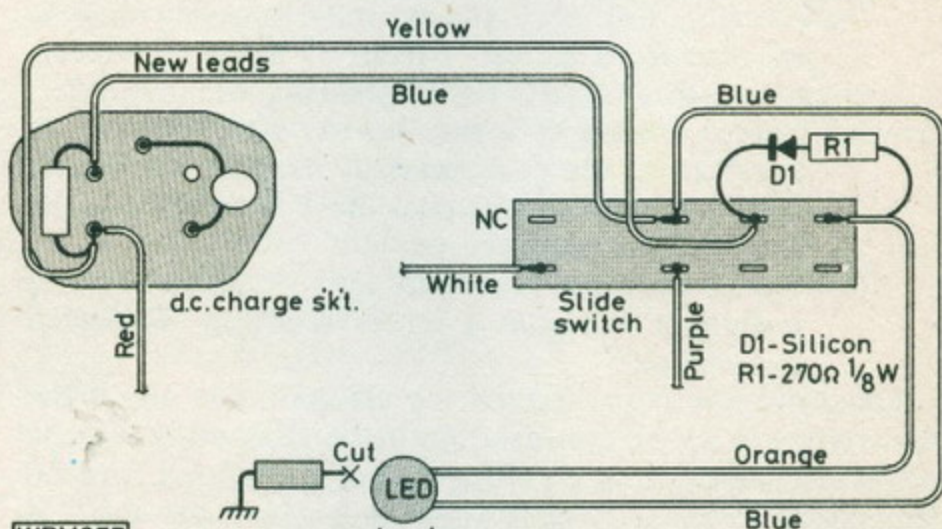


Fig. 4

Two new wires, blue and yellow, are run from the switch to the socket, as in the diagram, and the link on the switch is then cut. A silicon diode and a 270kΩ resistor are then connected as in Fig. 4.

When completed, this mod gives a visual indication that the batteries are receiving charging current when the charger is plugged in. If you have any mods, or requests for mods, please write to: R. S. Hall, *Practical Wireless*, King's Reach Tower (Hatfield House), Stamford Street, London SE1 9LS.

73's
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