The pilot light E-203 on the front panel (shown in figure 5-8) can be replaced by unsoldering its leads. The fuse F-201 is mounted in a clip on top of the chassis as shown in figure 5-9. The point-to-point voltages listed in table 5-4 are helpful in trouble shooting on the Signal Tracer and are used in conjunction with the schematic diagram, figure 5-11, and figures 5-8, 5-9, and 5-10. These voltages were measured with an electronic voltmeter such as the Navy Model OBQ Series or equivalent. For an indication of the presence and approximate magnitude of AC or DC voltage greater than 55 volts, the Voltage Indicator-Probe may be used. GND is the chassis. The wiring diagram of Signal Tracer TS-673/U, figure 5-12, is used to locate the test points.

TABLE 5—4. POINT-TO-POINT VOLTAGES, SIGNAL TRACER TS-673/U

COMPONENT	TERMINALS	OPERATING NORMAL VOLTAGE TO GROUND
V-201	1-GND	80 v DC
V-201	4 or 5-GND	6.3 v AC
V-202	1-GND	150 v DC
V-202	3-GND	0.8 v DC
V-202	4 or 5-GND	6.3 v AC
V-202	6-GND	110 v DC
V-202	8-GND	0.5 v DC
V-203	1 or 5-GND	180 v DC
V-203	3-GND	6.3 v AC
V-203	7-GND	150 v AC
V-203	2-GND	150 v AC

The indicating meter M-201 can be replaced by (1) removing the two binder-head screws at the rear of the Signal Tracer case and slipping off the cover, (2) unsoldering one wire and removing the screw and wire lug of the other wire at the top of the instrument, (3) removing the round-head screws on each side of the meter, (4) removing the tube shields E-204 and E-205, (5) removing the instrument from the rear, (6) removing the two round-head screws that hold the metal frame to the new instrument and replacing with the fillister-head screws, and (7) reversing the procedure outlined above by replacing the instrument and screws in the front panel and connecting the two wires to the instrument.

3. INTERFERENCE GENERATOR SG-23/U, TROUBLE SHOOTING.

The 1-1/2-volt battery in this unit should be changed at regular intervals or as indicated by erratic behavior of buzzer.

The unit may be taken apart by lifting the flared end of the index ring (see figure 3-3) and dropping out the components. The binder-head screw in the base of the index button (battery adj. screw in figure 3-3) adjusts for a change in battery length. When a new battery is installed, it may be necessary to turn this screw in or out until the inner tip of the buzzer touches the outer tip of the probe head (see figure 2-4) when the index ring and line indicate position 1 (see figure 3-3). Contact between the two tips can be tested by making a connection with Electrical Lead CAOR-491895 between the ground jack and the outer tip. Making this connection will stop the buzzer when the button is depressed if the tips are in contact. The sound generated by the buzzer is audible. If the buzzer fails to operate, change the position of the buzzer adj. screw shown in figure 3-3.

Interference Generator SG-23/U will not function when its Signal Buzzer I-301 is out of adjustment. Readjustment of the buzzer can easily be made with Test Set equipment. Figure 5-14 shows the equipment used and a convenient method for making the adjustment. With this method, the buzzer is energized through the screwdriver and battery terminal and will buzz when the adjusting screw is turned to the correct setting.

CAUTION

Pressure against the adjusting screw with the screwdriver bit will cause the buzzer to buzz at a false setting. Use a very light touch with the screwdriver.

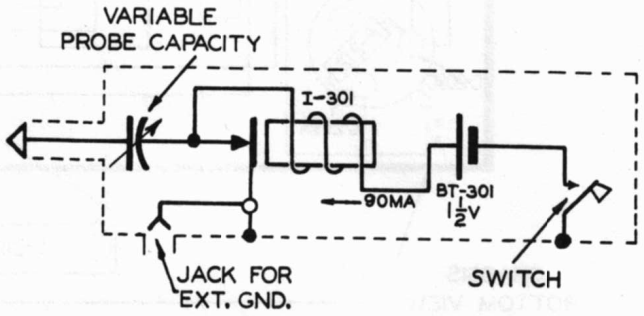

Figure 5-13. Schematic Diagram, Interference Generator SG-23/U

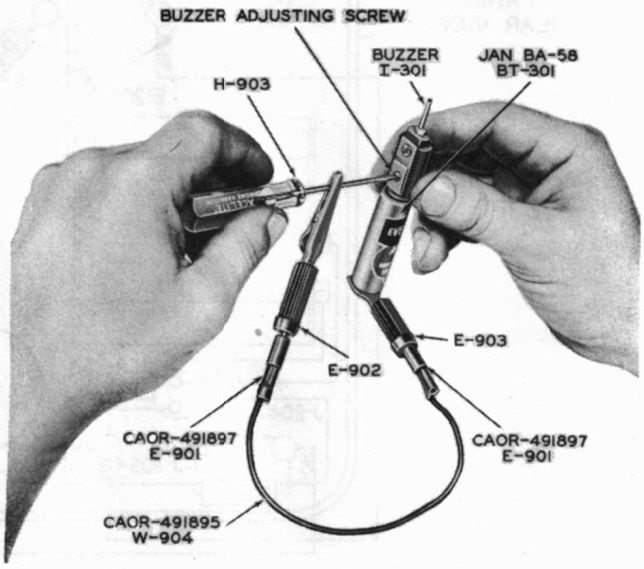

Figure 5-14. Adjustment of Signal Buzzer I-301