

TYPE 50

RO13

D.C. AUXILIARY CIRCUITS (CONTD.)

The "Panel Controls" switch (82) and fuses (88) supply the bobbins of the filament switch (87), C.W. - I.C.W. switch (27) and the L/F - H/F switch (24). The filament switch (87) and C.W. - I.C.W. switch (27) are operated by the control switches (80)(81) on the control board. An auxiliary contact on the aerial C.O.S. (6) completes the bobbin circuit to the L/F - H/F switch (24) when the aerial C.O.S. (6) is in the "H/F" position.

The "Signalling Circuit" switch (84) and fuses (90) supply the master key circuits for operating the magnetic key (65), the operating switch (14), the anode keys (15)(165), and the H/F operating switch (102).

The bobbin of the magnetic key (65) is connected in series with the front contacts of the morse key (149) when the main emergency switch (148) is in the "main" position.

The main emergency switch (148) is fitted under the base of the morse key (149) on the operator's bench.

The L/F operating switch (14) and anode keys (15)(165) or the H/F operating switch (102) are connected across the back contacts of the morse key (149) and are short circuited when the key is at rest. Only the lamps (159)(160) are then in circuit and they will therefore burn at full brilliancy.

When the morse key (149) is pressed the back contacts of the key are broken and the short circuit is removed. The circuit is then through the switches (14)(15)(165), which are in parallel, or the H/F operating switch (102) according to the position of the aerial C.O.S. (6). The lamps (159)(160), being in series with the bobbins of these switches, become dim. An additional bobbin is connected in parallel with the bobbin of the H/F operating switch (102) to compensate for the bobbins of the anode keys (15)(165). When Type 50 is fitted in a second office the morse key (149) is fitted with a remote control attachment. This consists of a bobbin and armature fitted on the key (149); the supply is taken from a pair of fuses (91) through a lamp (150) and remote control key C.O.S. (151), the circuit being completed by the remote control key in use. Additional fuses (154)(155) are connected in the supply to the remote control keys (152)(153).

When the main emergency switch (148) is set to "emergency" the front contacts of the morse key (149) are connected in series with the 20 volt supply to the low power magnetic key (117). The back contacts of the morse key are not used.

20 volt warning circuits. When Type 50 is fitted as a second office set a 20 volt warning circuit is used which is supplied from the main W/T office. The warning circuit consists of a loud sounding buzzer (156) and a warning lamp (157) which are operated by a control switch in the main W/T office. The warning lamp (157) will burn as long as the main office control switch is made but the circuit to the buzzer (156) is broken by a contact arm on the aerial C.O.S. (6) when the Type 50 aerial is earthed. (see figure t).

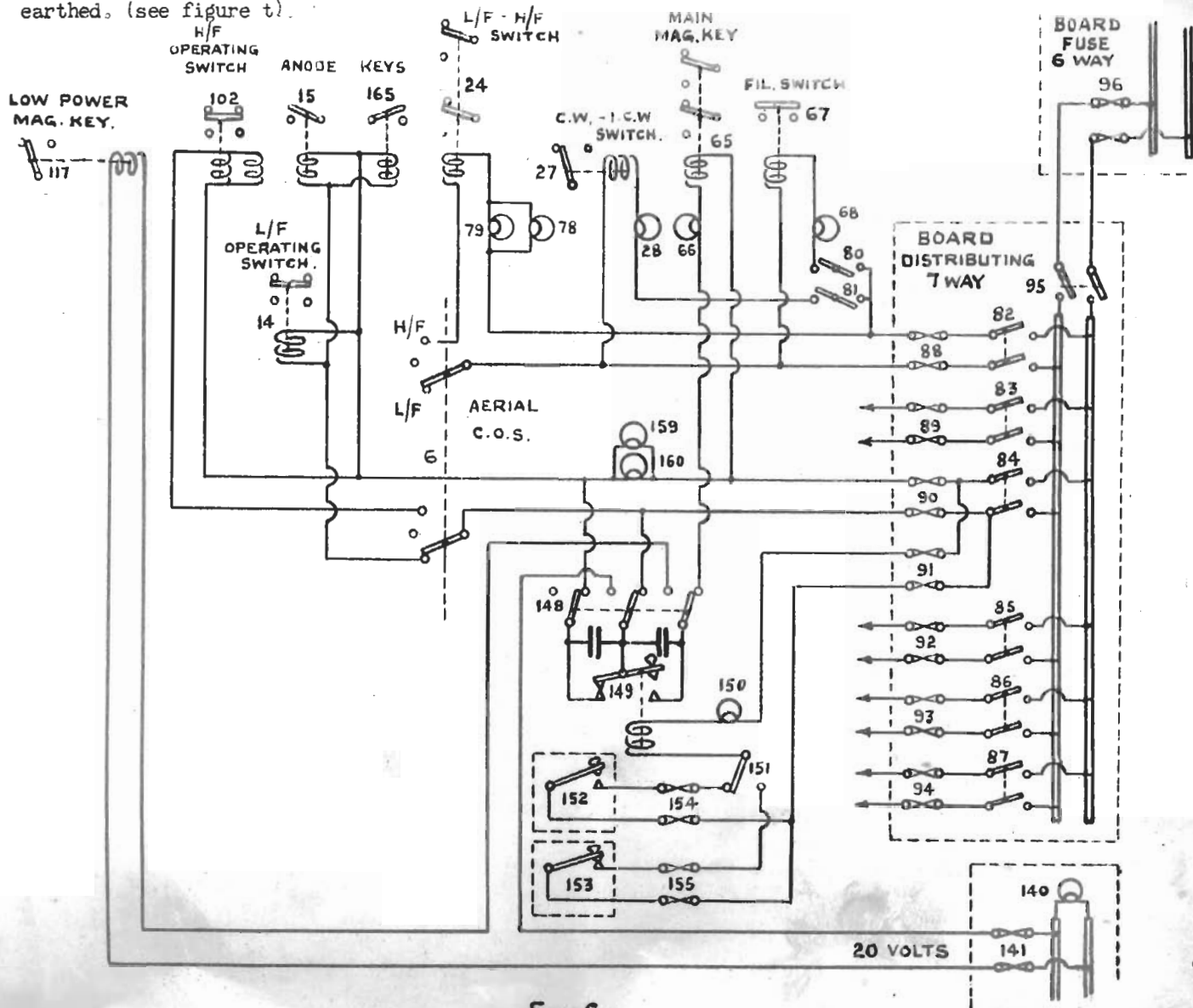


FIG. S.