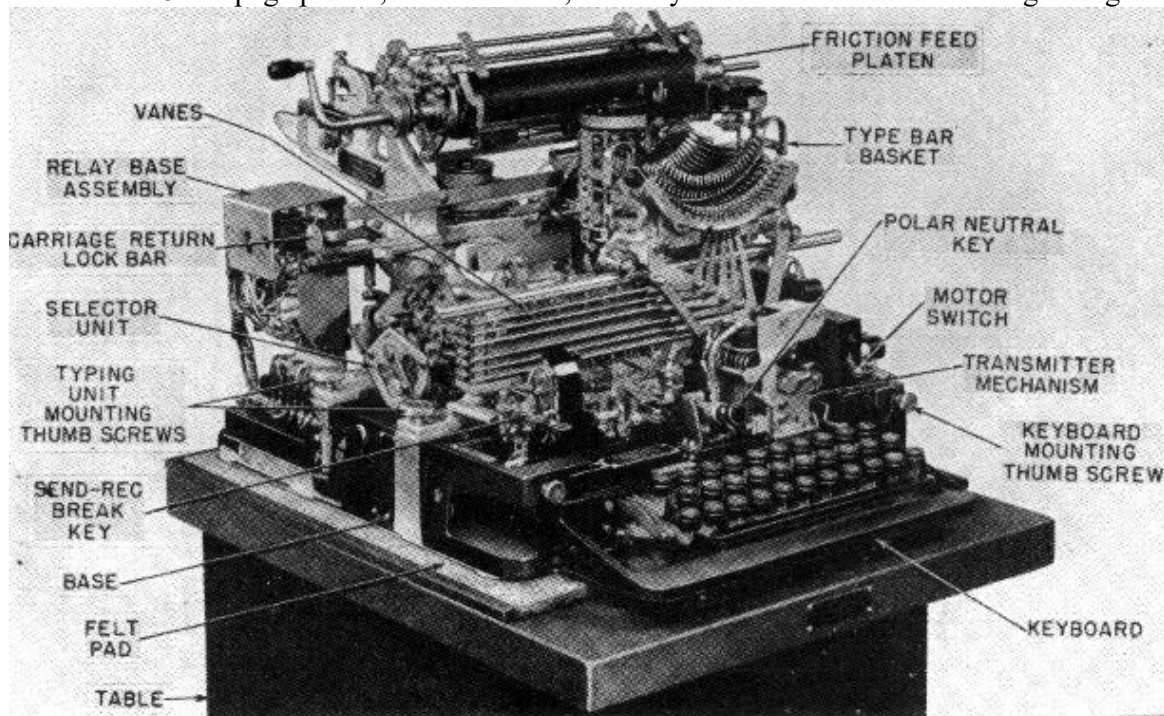# MODEL 15 TELETYPE

Recently the Telephone Company released a number of the model 15s to RTTY, INC., to sell to licensed amateurs at a very reasonable price. These machines are purchased in an "as is condition," but so far all have been operative. They are complete with tables and have sync motors. The type faces are the so called commercial style which includes fractions in upper case on B, C, F, J, K, L, N, and V. Palletts are available to convert to communications types.

The model 15 is a page printer, self contained, with keyboard and motor It has a single magnet selector, which can
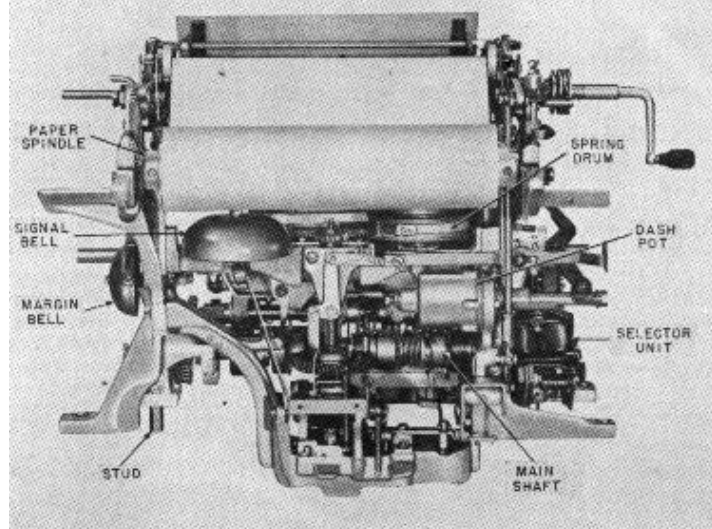

he operated direct from your Terminal Unit or through use of a polar relay. Two types of selectors are to be found on various models of the 15, first the so-called "pull type," magnet which requires the current to he on to pull the selector hack after each operation. The second type is called a Holding Type" selector, which mechanically

returns the selector to operating condition after each operation. The later machines have the second type of selector, but does in no manner make the earlier version unsatisfactory. Both types can he operated with the two coils either in series or parallel, to provide 30 or 60 mil operation.

The keyboard has the standard type of distribution assembly, which is similar to that in the model 12, 14, 19, 24, 26 machines. As received, they have the coil and condenser across the contacts which has to be removed for operations of your FSK direct. However if a polar relay is used, it can he left in place to reduce RF noise generated by the contacts breaking the keying current.

In the model 15, the paper is held on a roller which tines not move back and forth as in the model 24 and 26s. The

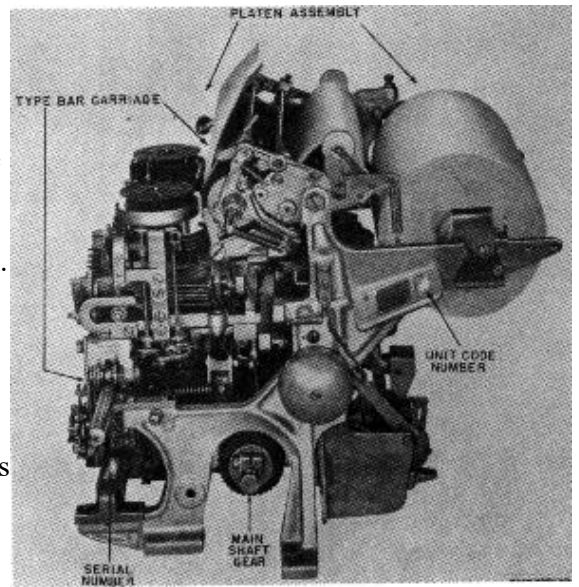type basket travel from left to right a copy is received.

The range finder is located on the left hand side of the printer, and can he adjusted when necessary through a small door on the left side of the cover.

An "unshift on space," cut out or in, lever is provided under the front of the printer. See photo for location of this feature. Many DX RTTY'ers will find this feature to he of advantage in copying weak signals, especially when a static pulse operates the shift to upper case. It can be cut out by shifting the lever to the other position. Optional features which can he added include automatic carriage return which can he purchased and added easily. Tab, for business operations also can he added. This operates from "upper case G" and is not used in amateur

operations. A few of the recent lots received have this feature installed in them.

Also the keyboard can he replaced with a 15 perforating keyboard, which makes the 15 similar to a 19 unit. This requires a power supply which will provide 500 mils at 110 volts DC. The base casting is slotted for this modification.
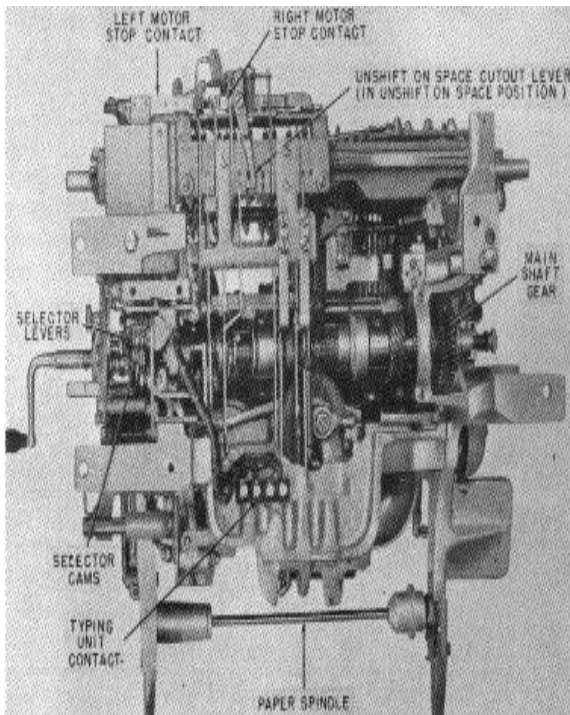
The complete model 15 is made up of the following major parts: Base, with wiring, keyboard which plugs into the base; motor with electrical connections which make, when the motor is bolted to the base; printer, which contains all of the selecting arid printing functions a cover which completes the unit. Additionally some of the 15s have a polar relay socket mounted in the rear, others have an additional relay which controls the motor from line current. Other type motors can he had to operate from generator AC supplies or DC. Other type faces can he purchased to convert to weather operations. To mount the type faces soft solder is used, which permits one change the fractions pallets quite easily. Key tops can be changed by lifting at the top of the key's and pulling up, to replace, reverse, the operation. Normal amateur operations are at a speech of 60 WPM, using gears wheels have numbers 74912 and 74913. However, speeds of 75 WPM can he had for other uses. To operate with a typical set-up amateur circuits, one would connect cords and plugs to terminals 41 and 42 for the printer, if there is no polar relay wired into the circuit.
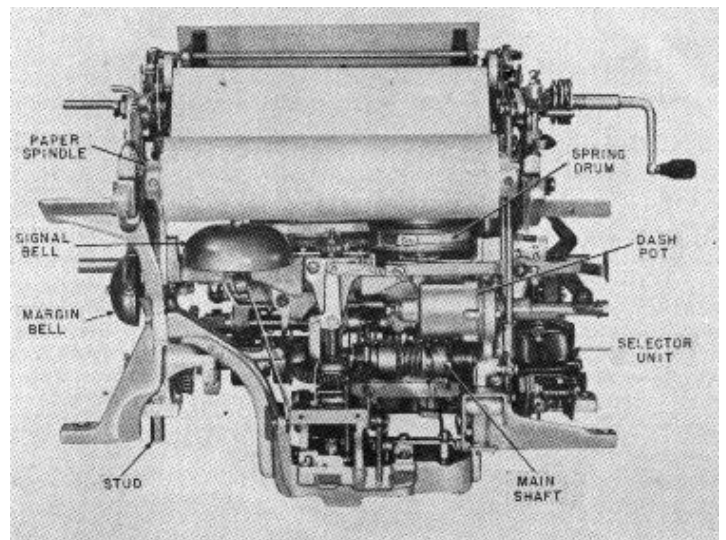

If a polar relay has been installed, it is necessary to connect one of the coil lead from the selector magnet which was connected to terminal 65 and move it to terminal 66. This lead goes to terminal 42. Next remove the lead which goes to the polar relay socket from terminal 61, and tape up. Then move the other selector magnet lead which was on terminal 62 and connect it to terminal 61 which goes to terminal 41.

The keyboard connects to terminals 32 and 34. Other wiring can be traced on the circuit shown. Photographs of various features show major items on the model 15.

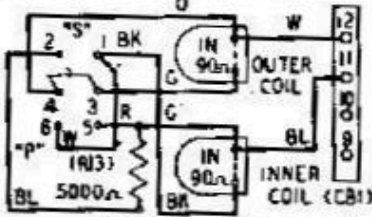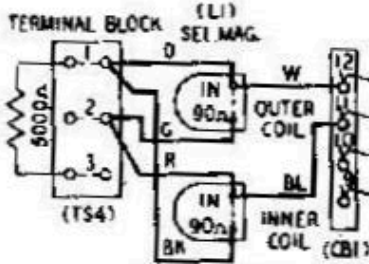TELETYPE is the trade mark of the Teletype Corporation.

Bottom

Back Side

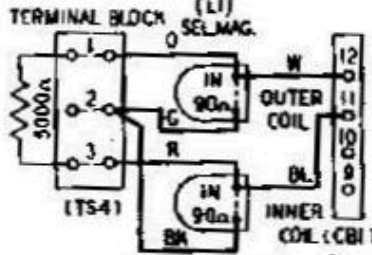# 15 TYPE TELETYPEWRITER WITH HOLDING MAGNET SELECTOR

NOTES:
1. ALL WIRES WITH COLOR SHOWN ARE ARTSILK COVERED DELTABESTON; 18 GA. FOR MOTOR LEADS; 15 GA. FOR ALL OTHERS.

(D2) SWITCH

(LI) SEL MAG.

OUTER COIL

INNER COIL (CB1)

(MFR. DISC.) TYPING UNIT
SERIES — PARALLEL SWITCH

TERMINAL BLOCK (LI) SEL. MAG.

(TS4)

TYPING UNIT-MAGS. IN
PARALLEL (.060 AMP. OPR.)

TERMINAL BLOCK (LI) SEL. MAG.

(TS4)

TYPING UNIT-MAGS. IN
SERIES (.020 AMP. OPR.)

See Note A

(S1) 256A RELAY

(J3) LINE CLOSING JACK

(K3) SENDING CONTACTS

KEYBOARD

(CB2)

(K1) BRK. CONT.

SEND-REC CONTACTS

LOOPED AT STATION LINE RES. POS.

LOOPS AT CONTROL REL. POS.

LOOP AT POWER SWITCH

(D1) POWER SWITCH

(FM1) FUSE MTG. PLUG TYPE FUSETRON AS REQ.

LOOP AT FUSE MTG.

STARTING WINDING

RUNNING WINDING

CENTRIFUGAL CONTACTS

ROT

SYNCH. A.C. MOTOR UNIT (CB4)

TTY BASE

George Hutchison
W7KSJ
(Webmaster)

WWW.RTTY.COM

William Bytheway
AA6ED
(Co-Webmaster)