

**TELEPRINTER No. 7B/PKN3**

**(Teleprinter No. 7B, Page, with Perforating Attachment)**

**General Information**

**1. Scope of Instruction.**—This Instruction provides the following general information on Teleprinters No. 7B/PKN3:—

- (a) Description and facilities
- (b) Routine maintenance
- (c) Spare parts.

**2. Facilities.**—The following facilities are afforded by the machine:—

(a) Manual (keyboard) transmission direct to line with a local printed-page record and simultaneous production of a 5-unit punched tape which can subsequently be used for automatic transmission of the message.

(b) Manual (keyboard) transmission direct to line with a local printed-page record, i.e. the normal facilities provided on Teleprinters No. 7; for this purpose, the perforating unit is disconnected by the operator, by the manipulation of a throw-out lever located on the perforator unit just to the left of the keyboard.

(c) Preparation of a fully-punched 5-unit tape with a local printed-page record of the message. The punched tape is subsequently used for the transmission of the signals by means of an automatic transmitter.

(d) A RUN-OUT key is provided for the continuous transmission of any character.

(e) An Answer-back unit (20-character), HERE IS, and WRU keybars are included.

When the perforating facility is switched in for use, operation of the FIGURE-SHIFT and WRU keybars results in these two character combinations being punched in the tape. However, when the answer-back is operated either as a result of the depression of the HERE IS keybar or by the reception of the WRU signals from line, the answer-back code is not perforated but 20 "All Space" combinations are punched.

**3. Dimension.**—The dimensions of the machine with cover are:—Width 2 ft. 3 in., depth 2 ft. 1 in., height 14 in. Its weight is approximately 87 lb.

**4. Stationery used.**—The perforator is designed for accommodating standard  $\frac{1}{16}$ -in. perforator tape, Paper, Parchmentized, for 5-unit Perforators and Reperforators, SP 238. The page-printing attachment is suitable for the normal range of stationery used on Teleprinters No. 7B, Page (see P.W.s and Telex, A 3153).

**5. Description.**—The Teleprinter No. 7B/PKN3 (see Fig. 1) is basically a Teleprinter No. 7B, Page but is fitted with a Teleprinter No. 11-type saw-tooth keyboard, which incorporates a perforating unit similar to that used on Perforators No. 45. For detailed information of these assemblies, reference should be made to C 1052, D 1002 to D 1005 and I 1051.

(a) *The main-base unit* is identical with main base unit No. 2, used on latest models of Teleprinter No. 7. It includes radio-interference-suppression units and is wired for "send-receive switch" working (Dgm. TG(L) 1101/1 refers). The power and instrument plugs and cords are identical with those used on Teleprinters No. 7B.

(b) *The receiving, selecting and printing mechanisms* are identical with the corresponding latest-pattern items fitted to Teleprinters No. 7, i.e. they include the Typehead-clutch No. 2, Electromagnet No. 2, and Page-printing-attachment No. 2.

(c) *The keyboard and transmitting units.*—Except for the additional parts for the send-receive switch, the transmitter unit is identical with that of Teleprinters No. 11D. The keyboard is a deep combination-bar pattern, the components of which are identical with those used on Perforators No. 45, and similar to those of the Teleprinter No. 11D.

(d) *The answer-back unit* is of the standard Teleprinter No. 11 pattern, as described in D 1005. It should be noted, however, that the ward slots are numbered 1 to 5 (counting from the back) and that a cut-away section represents a marking element, as on Teleprinters No. 11D (see D 1006).

(e) *The perforator mechanism*, except for the addition of the perforator throw-out lever, is identical with that used on Perforators No. 45, as described in I 1051.

(f) *The tape-roll holder* is similar to the one used on Teleprinters No. 7B/RP (see C 1062).

(g) *The driving motor* is a Motor Electric D.C. No. 24B.

**6. Maintenance Routines, Adjustments and Spare Parts.**—Table 1 lists the Instructions relating to machines of other types which apply in general to the various units used on Teleprinters No. 7B/PKN3. The Instructions listed therein should where applicable, also be followed when dealing with Teleprinters No. 7B/PKN3.

Table 2 lists the parts which are special to Teleprinters No. 7B/PKN3 and which are not listed in the Instructions referred to in Table 1. If required, these parts should be requisitioned from the Factories Dept., Bovay Place, London, N.7, quoting the part numbers given.

TABLE 1

Unit of Teleptr. No. 7B/ PKN3	Adjustment Instruction	M.R.I. (see Tests & Inspns., Routine)	Lubrication Instructions	Parts Lists	Spare Parts Stocks to be held)
Main-base ....		G 5016 and G 5107	C 5004	{ C 5252 C 5253	C 5201
Electromagnet ....	C 5011	" "	"	C 5210	"
Combination-head and Typehead ....	{ C 5007 C 5008	" "	"	{ C 5206 C 5256	"
Receive cam ....	"	" "	"	{ C 5208 C 5258	"
Control-lever ....	C 5006	" "	"	C 5207	"
Ink-ribbon ....	C 5010	" "	"	C 5259	"
Page-printing ....	C 5016	" "	"	C 5211	"
Motor & Governor	C 5018	G 5016 and G 5107	"	{ C 5202 C 5219	"
Main-shaft ....	C 5012	" "	"	C 5204	"
Motor start-stop ....	C 5012	" "	"	"	"
Keyboard ....	D 5010	G 5111, G 5112 and G 5113	D 5003	C 5275	D 5201
Transmitting ....	D 5011	" "	"	C 5276	"
Answer-back ....	D 5012	" "	"	D 5255	"
Perforator ....	I 5051	G 5153	I 5051	I 5257	I 5251
Tape-roll holder ....	H 5011	G 5145, G 5146	H 5011	C 5282	H 5301

TABLE 2

*Main Base Unit No. 2*

Pillars, distance (for front feet) ....	Teleprinter No. 7 Part CA 2
Screws for securing (for front feet) ....	" " " CA 3
Pillars, distance (for rear feet) ....	" " " CA 4
Screws, for securing (for rear feet) ....	" " " CA 5

*Answer-back Unit*

Links, perforator-trip, complete ....	Perforator No. 45 Part C 64
Gears, perforator-driving ....	" " " C 83
Release shaft for A/B unit ....	" " " 1841/39

*Perforator Assembly.*—The following parts are used in addition to those used on Perforators No. 45:—

Levers, throw-out (perforator control) ....	Teleprinter No. 7 Part CH 31
Springs, tension (for throw-out lever) ....	" " " CH 33
Collars (for securing throw-out lever) ....	" " " K 158

*Miscellaneous Parts.*—The following parts are used only on Teleprinters No. 7B/PKN3:—

Tubes, tape-guide ....	Teleprinter No. 7 Part CB 39
Brackets, support, L.H. (for tape-guide tube) ....	" " " CB 41
Brackets, support, R.H. (for tape-guide tube) ....	" " " CB 40

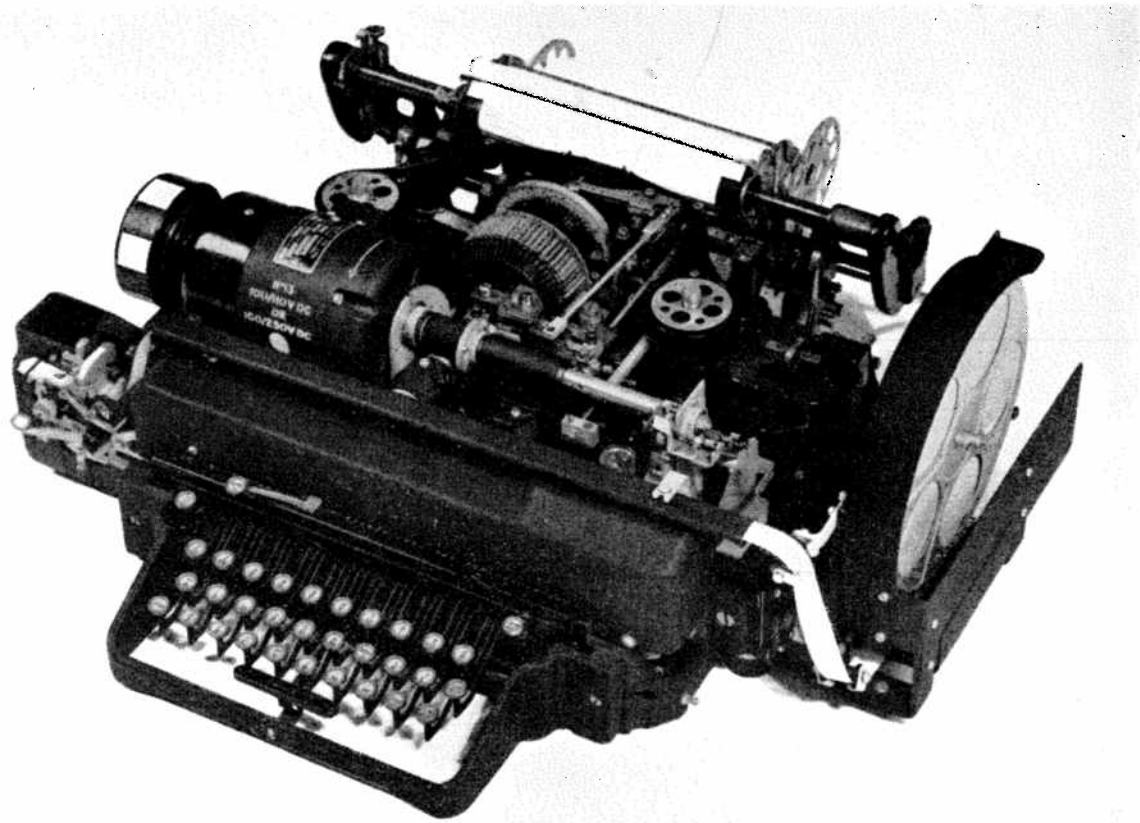


FIG. 1.—TELEPRINTER No. 7B/PKN3

References:—C 1052, C 1062, C 5209, D 1002 to D 1006, I 1051 (see also Table 1)  
(Tg 1/1) P.W.s & Telex, A 3153

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