

## UNIT AUTOMATIC EXCHANGES No. 13 AND No. 13X

### Schedule of Equipment and Miscellaneous Items

\*[NOTE:- As this Instruction has been completely revised, individual items have not been "starred"]

1. **Introduction.** This Instruction details the main items of equipment (excluding power plant) required in connexion with the provision of a U.A.X. No. 13 or 13X; the "Small Stores" and "Small Switchboard Stores" items are detailed separately in G 3532.
2. **Main items** required for installation are detailed in the table below.
3. **Exchange plant items** and maintenance records, see G 5532 and G 5533.
4. **Power Plant.** The power plant items are scheduled in POWER, General, F 3028, F 3030, and F 3060.
5. **Diagrams and Drawings.** Diagrams and Drawings are listed in G 1532.
6. **Circuit Diagram Folder.** The provision of a Circuit Diagram Folder No. 3 should be arranged in accordance with General, A 6052.
7. **E.I. File.** The provision of an E.I. file should be arranged in accordance with GENERAL, General, A 0010.
8. **Parent and non-parent terminations.** The equipment required at the associated parent and non-parent exchanges, for the termination of the junctions from the U.A.X., is detailed in Trunks & Junctions, E 3120.
9. **Cost of Non Rate Book items.** These are shown, for works estimate purposes, in WORKS, Estimates & Allocations, B 0055.

### MAIN ITEMS REQUIRED FOR INSTALLATION

Item	Quantity	Remarks
<b>'C' Unit</b>		
Unit, Auto, No. 13C	1 for U.A.X. No.13 2 " " No.13X	
Brackets, Mtg. AK	4 per 'C' unit	For mounting Labels, No. 198
" " V	2 per additional "Jacks, Test, No.4"	-
Casing and Cover, T No.6	As required	
Cord, Test, No. 4/72B	1	For line-testing equipment
End Panel, for Unit, Auto, No.13C	1 for U.A.X.No.13X	See G 3550
Fuse-mountings, No.4001	As required	For subscribers' line termina- tions
" " No.4023	" "	For junction " "
Covers, Fuse-mountings, No.4023	" "	-
Jacks, Test, No.4	" "	6 supplied with the unit
Lamps No. 2, 50-V.	21 per 'C' unit	Alarm lamps, see also 'A' unit
Mixture No. 2	As required	For sealing base of 'C' unit

## MAIN ITEMS REQUIRED FOR INSTALLATION (contd.)

Item	Quantity	Remarks
Pegs No.18	As required	For transfer arrangements, see also "Wedges, Locking, No.5" in G 3532
Pegs No.47	12 per Unit, Auto.	For busying junctions (See G 5001 and G 5531) 6 supplied with the unit
Plugs No. 222	6 " " No.13C	
Cordage, Inst., No.1/F, Black	3 ft. per " " "	
Protectors, H.C. & T. 40B	As required	Service telephone
Rings, Jumper, No. 9	" "	
Telephone No.1/232F, Black	1	
Bell-set No.26	1	Required at U. A. X. No.13X only, see G 3550
Cord, Inst., No.9/74H, Black, 9½in.	1	
" " No.3/62B, Brown, 7½in.	IF required	
Troughs, Cable, TP 524	As required	-
Tester No.43	1	} Recover after opening } of the exchange
Detector No.4	1	
'A' Unit		
Unit, Auto., No.13A	As required	-
Blanks, Meter, 100-type	" "	-
Labels, U. A. X., Set No.2	" "	} Labels for linefinders, } group selectors, final } selectors and meters
" " " No.3	" "	
" " " No.4	" "	
" " " No.5	" "	
" " " No.6	" "	For L.Fdr. and meter-test lamps Subscribers' meters Group-selector overflow meters Mounting plate (including cover), equipped with 10 subscribers' calling equipments
Lamp No.2, 50-V.	2	
Meters No.100A	As required	
" " 100C	" "	
Relays No. 619MA	" "	Linefinder, max. of 8 per unit Final selector, " 5 " " Group selector, " 8 " "
Selectors No. 2/3161	" "	
" No. 2/3162	" "	
" No. 2/3163	" "	'B' Unit
Unit, Auto., No.13B	As required	For vertical-type mountings, See Dgm.TP 5121/1. Two also required for each cross-connexion frame. TP 573 refers
Brackets, Mounting, BK, 27½-in.	" "	

## MAIN ITEMS REQUIRED FOR INSTALLATION (contd.)

Item	Quantity	Remarks
<b>'B' Unit (contd.)</b>		
Capacitors, M.C., No. 101	5 when required	} For use with Strip-mounted Sets AT 3945, Uniselectors Set B
Clips No. 18, 1 $\frac{3}{8}$ in.	5 " "	
Resistors, Spool, No. 6 - 200 ohms	5 " "	
Fuse-mountings No. 731A	1	Additional when required. Each unit supplied with two
Jacks No. 51	As required	Additional routine-test jack AT 4082 refers
Regenerators No. 1	1	For use with Strip-mounted Sets AT 4453, AT 4454, AT 4455 or AT 4456
Relay-set No. 2/3418	As required	Auxiliary common route-discriminating equipment AT 3944
Rings, Jumper, No. 10	" "	} For cross-connexion frame
Strips, Connexion, No. 97	" "	
Shelves, 2000/TP 201 - Type U.A. 13 Assembly 1	" "	Accommodates five Relay-sets No. 2/3418. Mounts in bottom position on 'B' units
Strip-mounted Set AT 3943	" "	B/W. junction to manual or parent exchange [superseded by Strip-mounted Set AT 4906(I/C.) and Strip-mounted Set AT 4907(O/G.)]
Strip-mounted Set AT 3945	" "	I/C. junction from dependent U.A.X.
Strip-mounted Set AT 3945, Uniselectors Set A	" "	} For use with Strip-mounted Set AT 3945. See G 3530
Strip-mounted Set AT 3945, Uniselectors Set B	" "	
Strip-mounted Set AT 3947	" "	O/G. junction to dependent U.A.X.
Strip-mounted Set AT 3948	" "	O/G. junction to dependent U.A.X. (terminal traffic only)
" " " AT 3949	" "	O/G. junction to non-dependent automatic exchange
" " " AT 3950	" "	Auxiliary route-discriminating equipment (superseded by Strip-mounted Set AT 4934)
" " " AT 3951	" "	Auxiliary route-restricting equipment
" " " AT 3955	" "	I/C. junction from parent or non-dependent exchange (superseded by Strip-mounted Set AT 4906)
" " " AT 4626	" "	Part-time private wire, junction-switching equipment

## MAIN ITEMS REQUIRED FOR INSTALLATION (contd.)

Item	Quantity	Remarks
<b>'B' Unit (contd.)</b>		
Strip-mounted Set AT 4906	As required	I/C. junction from parent or non-dependent exchange (2 circuits per base)
" " " AT 4907	" "	O/G. junction to parent exchange and non-parent manual exchange
" " " AT 4934	" "	Auxiliary route-discriminating equipment
" " " AT 4453†	" "	O/G. junction (with pulse regenerator) to dependent U.A.X.
" " " AT 4454†	" "	O/G. junction (with pulse regenerator) to dependent U.A.X. (terminal traffic only)
" " " AT 4455†	" "	O/G. junction with B/W. switching (with pulse regenerator) to parent exchange
" " " AT 4456†	" "	O/G. junction (with pulse regenerator) to non-dependent auto exchange
† This equipment can be provided only on the authority of the Eng. Dept. (Tp 3/7)		
Uniselectors No. 2/33A	1	For use with Strip-mounted Sets AT 3948 and AT 3951
" " 2/62A	1	For use with Strip-mounted Sets AT 3950 and AT 4934
" " 2/41A	As required	For use with Strip-mounted
Bracket, Mounting, DD	1	Sets AT 3945, Unselector Sets:
Frame, Notice, No. 20	1	A & B
<b>'D' Unit</b>		
Unit, Auto., No.13D	As required	-
Brackets, Mounting, AK	" "	For mounting Labels, No.198
" " CA	" "	" " connexion strips
Fuse-mountings No. 4028	" "	-
Covers, Fuse-mounting, No.4028	" "	-
Mountings, D 66080	" "	For mounting Transformers, No.48
Parts No. 1/TP 1001	" "	-
Protectors, H.C. & T 40B	" "	-
Rings, Jumper, No.20	" "	-
" " No.22	" "	-
" " No.23	" "	-
Strips, Connexion, No. ...	" "	-
" " No. ...	" "	-

## MAIN ITEMS REQUIRED FOR INSTALLATION (contd.)

Item	Quantity	Remarks
<b>'D' Unit (contd.)</b>		
Transformers No. 48 ...	As required	-
Units, Terminating, No. 6B	" "	-
<b>Cables and Wires</b>		
Cable, Switchboard, P.V.C., S.C. and L., P.V.C.	As required	
6-wire/9½	" "	
12-wire/9½	" "	
20-wire/9½	" "	
31-wire/9½	" "	
41-wire/9½	" "	
50-wire/9½ (10 singles + 20 pairs)	" "	
61-wire/9½	" "	
80-wire/9½	" "	
100-wire/9½	" "	
12-wire/20	" "	For tones, ringing etc.
Cable, E.L., 250V., 0.0225 sq.in., Black	" "	{ For negative battery and earth leads
" " 250V., 0.0225 sq.in., Red	" "	
" " 250V., 0.0020 sq.in., Black	" "	{ For positive battery and earth leads
" " 250V., 0.0020 sq.in., Red	" "	
Cable, P.V.C., No. 1, 2-wire/9½	" "	For charge-fail lead
Wire, P.V.C., No. 1, 1-wire/20	" "	{ For alarms, tones, etc. on 'B' units and miscellaneous uses
" " 1-pr./20	" "	
Wire, P.V.C., No. 2	" "	
1-wire/9½	" "	{ M.D.F. & I.D.F. jumpers
1-pr./9½	" "	
3-wire/9½	" "	
4-wire/9½	" "	
Wire, Switchboard, P.V.C. S.C. and L., 1-wire/6½	" "	{ For commoning on connexion strips etc.
Wire, Copper, Tinned, 25 S.W.G.	" "	
Wire, Copper, Soft, Stranded, 7/20	" "	Power switchboard earth
" " " Stranded, 19/16	" "	Main earth

## MAIN ITEMS REQUIRED FOR INSTALLATION (contd.)

Item	Quantity	Remarks
Miscellaneous		
Frames, Notice, No. 8	As required	-
Labels, U.A.X., Set No. 1	" "	Labels for tool cabinet

References:- G 1532, G 3530, G 3532, G 5532, G 5901, G 6051  
(E1/4) Trunks & Junctions, E 3120  
GENERAL, General, A 0010  
POWER, General, F 3028, F 3080, F 3060  
WORKS, Estimates & Allocations, B 0055

E N D