

UNIT AUTOMATIC EXCHANGES Nos. 13 AND 13X
Drawings, Diagrams and Specifications

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

1. This instruction lists in Tables 1, 2 and 3 the drawings, wiring and circuit diagrams, and specifications applicable to U.A.X.s Nos. 13 and 13X. Notes on circuit operation are contained in the Diagram Notes relating to the circuit diagrams. Diagrams of testers to be used at U.A.X. Nos. 13 and 13X are scheduled in TESTS & INSPECTIONS, Routine, R 5069.

TABLE 1 - ASSEMBLY AND EQUIPMENT DRAWINGS

Drawing TP	Specn. T	Description
201	5252	Shelf 2006/TP 201, Type Unit, Auto., No. 13. Assembly 1
510	1393	Unit, Auto., No. 13C - Typical equipment
511	1393	* * No. 13A - * *
512	1393	* * No. 13B - * *
513	1392	* * No. 13C - Framework
514	1392	* * No. 13A - *
515	1392	* * No. 13B - *
516	1392	* * No. 13C - Cabinet (assembly)
517	1392	* * No. 13C - Cabinets (cable-trough assembly)
518	1392	Units, Auto., Nos. 13A and 13B - Cabinets (assembly)
519	1393	Unit, auto., No. 13C - Signwriting and arrangement of connexion strips on I.D.F.
520	3461	* * No. 13 - Junction hunter AT 3945. Uniselector set A and set B
521	1392	* * No. 13 - Cabinet (cable-aperture assembly and associated components)
522	1392	* * No. 13 - Cabinets (removable door rails)
523	1392	* * No. 13 - Cabinets (doors)
524	1392	Trough, Cable, TP 524
558	{ 5302 5252	Unit, Auto., No. 13B - Strip-mounted Set AT 4454 (mounting arrangements)
564	1393	Unit, Auto., No. 13D - Typical equipment
565	1392	* * No. 13D - Framework
566	1392	* * No. 13D - Cabinet assembly
567	-	Method of jointing units C and D
571	-	End panel for Unit, Auto., No. 13C (assembly)
572	-	Unit, Auto., Nos. 13B and 14G - Strip-mounted Set AT 4934 (mounting arrangements)
202B	5252	Marking for Parts 1 and 2/SLA/2 and allocation of tags for connexion strips on Relay-sets Nos. 3310, 3311 (U.A.X. No. 12) 2/3418 (U.A.X. Nos. 13 and 14) and Strip-mounted Set AT 3950 (U.A.X.s Nos. 13 and 14)

TABLE 2 - WIRING DIAGRAMS

Diagram TP	Specn. T	Description
3001	1393	Units, Auto., No. 13 - Tones etc. and alarm wiring
3002	1393	" " No. 13 - Typical cabling and jumpering
3003	1393	Unit, Auto., No. 13A - Subst. line relays and linefinder-bank wiring
3004	1393	" " No. 13A - Linefinder group and overflow-relay wiring
3005	1393	" " No. 13A - Allotter bank wiring
3006	1393	" " No. 13A - Group-selector bank wiring
3007	1393	" " No. 13A - Final-selector bank wiring
3008	1393	" " No. 13B - Junction-hunter unit selectors (AT 3945)

TABLE 3 - CIRCUIT DIAGRAMS

Diagram AT	Specn. T	Description	Remarks
2020	-	Dynamo charging set (wiring)	
2022	-	Small auto. exchanges with D.C. mains supply or petrol engine (explanatory)	
2349	-	Panel, Charging, No. 23 and 23A	
2350	-	Petrol engine charging set (wiring of power plant)	
2351	-	Motor generator with D.C. mains supply (wiring)	
3658	4095	Panel, Charging, No. 31, for A.C. mains; ultimate load 100 Ah. per day (schematic)	
3665	-	U.A.X.s Nos. 12 and 13 - Line-testing circuit	Superseded for new work by AT 5001
3688	-	Panel, Charging, No. 31	
3721	{ 1393 5400 5452	U.A.X. No. 13 - Subscribers' line, linefinder and control relay-set	
3722	5401	U.A.X. No. 13 - Group selector	
3723	5402	U.A.X. No. 13 - Final selector, 2/10 P.B.X.	
3724	{ 1393 5453 5454	U.A.X. No. 13 - Ringing, tones, alarms, meter and time pulses	
3943	3460	U.A.X. No. 13 - Bothway junction to manual or parent exchange	Superseded for new work by AT 4906 with AT 4907
3944	5455	U.A.X. Nos. 13 and 14 - Auxiliary common route-discriminating equipment	
3945	3461	U.A.X. No. 13 - Incoming junction from dependent U.A.X.	
3946	3462	U.A.X. No. 13 - Incoming junction from non-dependent exchange	Superseded for new work by AT 4906
3947	3463	U.A.X. No. 13 - Outgoing junction to dependent U.A.X.	
3948	3464	U.A.X. No. 13 - Outgoing junction to dependent U.A.X. (terminal traffic only)	
3949	3465	U.A.X. No. 13 - Outgoing junction to non-dependent U.A.X.	
3950	3467	U.A.X.s Nos. 13 and 14 - Auxiliary route-discriminating equipment	Superseded for new work by AT 4934
3951	3466	U.A.X.s Nos. 13 and 14 - Auxiliary route-restricting equipment	
3955	3462	U.A.X. No. 13 - Incoming junction from parent or non-dependent exchange	Superseded for new work by AT 4906
4082	3506	U.A.X. No. 13 - Miscellaneous circuits	
4453	5677	U.A.X. No. 13 - Outgoing junction (with impulse regenerator) to dependent U.A.X.	
4454	5696	U.A.X. No. 13 - Outgoing junction (with impulse regenerator) to dependent U.A.X. (terminal traffic only)	

TABLE 3 (Contd.)

Diagram AT	Specn. T	Description	Remarks
4456	5639	U.A.X. No. 13 - Outgoing junction (with impulse regenerator) to non-dependent auto. exchange	
4565	5722	U.A.X. No. 13 - Junction-switching equipment, remotely-controlled	
4626	3759	U.A.X.s Nos. 12 and 13 - Part-time private wire, junction-switching equipment	
4675	-	50V. positive battery supply	Superseded for new work by AT 5126
4803	4157	Rectifier Nos. 62A and 63A Charging equipment for positive battery	
4906	3956	U.A.X. No. 13 - Incoming junction from parent or non-dependent exchange	
4907	9000	U.A.X. No. 13 - Outgoing junction to parent exchange	
4934	5950	U.A.X. Nos. 13 and 14 - Auxiliary route-discriminating equipment	
4993	9032	U.A.X. No. 13 - Bothway junction to dependent U.A.X. (terminal traffic). Signalling System, A.C., No. 5X	
5001	-	U.A.X. Nos. 12 and 13 - Line-testing circuit AT 5001	
5065	9021	U.A.X. No. 13 - Disabled subscriber's line circuit	
5126	-	50-V. positive-battery supply at U.A.X.s No. 13	

Reference:- TESTS & INSPECTIONS, Routine, R 5069

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