

DSS FROM ATTEND. CONSOLE

PEX Systems - New Attendant's Consoles

AMERICAN TELEPHONE AND TELEGRAPH COMPANY

195 BROADWAY, NEW YORK 7, N.Y.

AREA CODE 212  
EX 3-3195

C. M. MAPES  
ASSISTANT CHIEF ENGINEER

*MUST ORDER SEPARATE FROM  
SIGNED 1- J58829A 1-23 SUPP. USE FOR. CABINE.*

December 20, 1961

Mr. C. M. Walker  
Arizona Chief Engineer  
The Mountain States Tel. & Tel. Co.  
Phoenix, Arizona

Supplements P.E.L. 6916  
P.E.M. 7521  
P.E.L. 6591  
P.E.L. 6244

Topical Index Code 1C1.15A

Dear Mr. Walker:

*Refer to P.E.M. - 7956  
for new coding of sets*

A new line of attendant's consoles will be made available during the next few months that will continue the trend of providing attractive and efficient equipment for our PEX customers. These consoles will have "Call Director" styling and will be available in four colors - green, light beige, light grey and white.

Included in this offering will be:

1. A "Direct Station Selection" console coded the 612A telephone set. This set will be used with the 756A PEX. It is similar to the 610B set with the addition of a direct station selection field which permits completion of inward calls simply by depressing a pushbutton key.
2. A "Busy Lamp" console coded the 615A telephone set. This set will be used with 740E and small 701B PEX installations. It will have the added feature of a busy lamp field which indicates by means of illuminated numerals those stations which are busy.
3. A "Universal Console" for use with the 701, 757 and Electronic PEX's and SxS and No. 5 CENTREXS which will be available in three forms:
  - (a) A console which will terminate a maximum of 30 trunks and attendant loops.
  - (b) A console which will terminate a maximum of 12 trunks and attendant loops.
  - (c) An optional "Direct Station Selection" console for use with the 757 and Electronic PEX which will house 100 or 200 DSS pushbuttons.

The "Universal Type Telephone Console" is expected to be available in May 1962. (More details and price and availability information will be provided in a later P.E.L.) In the interim, several consoles are available now for use with CENTREX installations. They are:

1. The 612B-type consoles for use with modified 701B switching systems.
2. The 622A console for use with No. 5 crossbar CENTREX systems.

Attached are price and availability information and more detailed descriptions of these consoles. It should be noted that the associated switching equipment must be arranged to work with these consoles. The Western Electric Company advises that the tentative date for shipping 756A Switching Units arranged for Direct Station Selection (DSS) operation will be late in March 1962. They further advise that your local Distributing House will be in a position to modify 756A Switching Units for DSS operation about February 1, 1962. It is not recommended that this modification be made on an "in service" basis. Field modifications can be made if "Busy Lamp" console operation of the 740E and 701B PBX is required prior to the availability of standard wired units.

At the present time these consoles are coded "telephone sets." However, in order to correct accounting difficulties introduced by this term, these units will be recoded as "consoles" in the near future.

At the request of Mr. Stecker, copies of this letter are being included for the General Plant Managers. Mr. Collins and Mr. Damkroger are writing to the General Traffic Managers and Marketing people on this subject.

Sincerely,

*C. M. Mays*

Assistant Chief Engineer

Attachments

- A - Price and Availability
- B - Notes
- C - Photographs

To all Chief Engineers  
(Copies included for General  
Plant Managers and Marketing  
List)

Attachment A Accompanying P.E.L. 6916

The Western Electric Company advises that the price and availability of New Console and associated equipment will be as follows:

<u>Ordering Information</u>	<u>Engineering Estimate</u>	<u>Available</u>	<u>Station Accounting Class</u>
(Quantity) Set, Telephone, 612A1 - *	\$285.00	Factory Stock - January 1962	Major
(Quantity) Set, Telephone, 612A2 - *	\$300.00	Factory Stock - January 1962	"
(Quantity) Set, Telephone, 615A1 - *	\$210.00	Factory Stock - January 1962	"
(Quantity) Set, Telephone, 615A2 - *	\$225.00	Factory Stock - January 1962	"
(Quantity) Set, Telephone, 621F1 - *	\$392.00	Factory Stock - Now	"
(Quantity) Set, Telephone, 621B2 - *	\$467.00	Factory Stock - Now	"
(Quantity) Set, Telephone, 622A1 - *	\$394.00	Factory Stock - Now	"

\* Specify color as - 51, - 58, - 60, or - 61

(Quantity) J58830A - 756A PBX Switching Equipment List 16	\$6,035.00	Late March 1962	"
Switching equipment for one 40-line 756A PBX arranged for flexible Night connections, Message waiting service, Central Office trunk appearances at a cord switchboard, Direct station selection and Single digit dialing with batteryless power plant, Six central office trunks, Three attendant trunks, and a set of drawings and circuit descriptions, and including two 30-foot plug-in house and feeder cables.			
(Quantity) J58830A - 756A PBX Switching Equipment List 17	\$6,362.00	Late March 1962	"
Switching equipment for 60-line 756A PBX arranged for flexible Night connections, Message waiting service, Central Office trunk appearances at a cord switchboard, Direct station selection and Single digit dialing with batteryless power plant, Six central office trunks, Three attendant trunks, and a set of drawings and circuit descriptions, and including two 30-foot plug-in house and feeder cables.			

USE FOR CABLES  
J-58829 A, L4  
J-58829 A, L10

ROWN CABLE  
J-58829 L-24

Attendants Consoles756A PBX1. Direct Station Selection Consoles - 612A-Type Telephone Sets - For Use With 756A PBX's

The 612A1 and 612A2 telephone sets utilize a plastic housing approximately 21 inches in length. They have the same ringer, dial and trunk keys as the 610B1 and 610B2 sets which were described in P.E.L. 6591 and P.E.M. 7521. In addition to these components, it has a 70 key DSS unit on the right-hand side of the unit. A key is provided for each station line 20-79 and each miscellaneous trunk 80-89. Each of the keys is a non-locking pushbutton key, equipped with a lamp to indicate a busy condition. When a key is depressed, it actuates two sets of contact springs in a cross-bar action which connect to the register circuit and simulate the operation of the "Hold" button and dialing of station or trunk digits on a rotary dial.

The camp-on function is retained with this set and to activate it the attendant depresses the illuminated (busy) DSS key associated with the called station.

The trunk capacities of these sets are as follows:

	<u>C.O.</u>	<u>Att.</u>	<u>Misc.</u>
	<u>Trks.</u>	<u>Trks.</u>	<u>Keys</u>
612A1	6	3	0
612A2	10	3	2

The set is equipped with an eight foot D200D mounting cord equipped with four KS-16687-L1 connectors. Mating cables with connectors coded A100C are available to extend to the house box and should be ordered separately. They are furnished 50 feet long unless otherwise specified. However, they may be obtained 100 feet long by specifying this length in the order.

The various circuits and equipment which have been modified in the 756A switching equipment to provide this feature are listed below. Basically the changes consist of:

- 1) Changing the off-normal contact assembly associated with each line hold magnet in the Line Link and Marker circuit to provide an additional contact which supplies ground for the line busy lamp indication and, 2) Adding several relays and making major wiring changes in the Dial Pulse Register circuit. It is not recommended that these modifications be attempted on an "in-service" basis. The Western Electric Company advises that the Distributing House Shops will be in a position to modify 756A Switching Equipment about February 1, 1962.

Circuit and Equipment Drawings

<u>Number</u>	<u>New Issue</u>	<u>Title</u>
SD-65741-01	16 B	756A PBX Line, Link and Marker Circuit
SD-65742-01	10 B	756A PBX Dial Pulse Register Circuit
SD-65746-01	16 B	756A PBX Cabling Diagram
SD-65753-01	10 D	756A PBX Attendant Trunk Circuit
SD-65757-01	4 B	756A PBX Cordless Position Circuit
ED-65871-01	11 B	756A PBX Alarm and Miscellaneous Units Equipment
ED-65880-01	5 B	756A PBX Cabling

J Specifications

<u>Number</u>	<u>New Issue</u>	<u>Corresponding B.S.P.</u>
J58829	5	AA 355.020
J58830	5	AA 355.023

Plant Series Practices in the 551-560 - series will be reissued to include these features. Connections will be covered in C38.654.04.

2. Busy Lamp Field Consoles - 615A-Type Telephone Sets - For Use With 740E and Small 701B PBX Systems

The 615A1 telephone set is a pushbutton telephone set in a desk surface type plastic housing with "Call Director" styling. On the front surface in left to right order are mounted a 105B apparatus blank, a 58A lamp socket, a 598A key, a 58A lamp socket, a 598B key, a 58A lamp socket and a 6N3 dial. A field of one hundred lamps numbered from 00 to 99 for station busy indication is on the right-hand side. A G3CR - hand set equipped with 289B plug rests on a fixed mounting on the left side of the housing. The set has a 200 conductor mounting cord terminating in four 50 terminal KS-16689, List 1 Plugs.

The trunk capacities of these sets are as follows:

	C.O. and <u>Att. Trks.</u>	Release <u>Key</u>	Hold <u>Key</u>
615A1	10	1	1
615A2	16	1	1

These sets replace the 101A key cabinets when used as attendant's cabinets as described in P.E.L. 5620. An additional feature of these sets is that they display an illuminated numeral corresponding to a station number whenever that station is busy.

Issue 10 of the Auxiliary Trunk per SD65725-01 will be available in late November 1961, and Issue 6 of the Attendant Trunk per SD65737-01 is now available and will show the modifications required to use the 615 type Telephone Sets.

### 3. Universal Consoles

The Universal Consoles will be used with the 701, 757 and Electronic PBX and with SxS and No. 5 crossbar CENTREX installations. They will be available in three forms.

- a) A console which will terminate a maximum of 30 trunks and attendant loops. This console will be used where only a single position with no more than 30 terminations is required.
- b) A console which will terminate a maximum of 12 trunks and attendant loops. This console will generally be used where more than one position of console is required. Calls over incoming trunks, transfer trunks, "0" operator trunks, etc., will be switched through call distributing circuits to consoles over attendant loops. Each console will terminate a maximum of six attendant loops. It will also be used where only a few direct trunk terminations are required.
- c) An optional direct station selection console which will allow an attendant to complete a call by depressing a pushbutton instead of dialing the call.

### 4. Consoles for CENTREX

#### a) 621B-Type Telephone Sets for Modified 701B Systems

The 621A1 telephone set is a pushbutton telephone set in a desk surface type plastic housing with a low angle sloping front. It will terminate a maximum of ten trunks and attendant loops. On the front surface in left to right order are mounted the following plug-in apparatus: 618A key, 60A lamp socket, 612A key, 21B dial, 618A key. Above the 21B dial are mounted a "Registers Ready" lamp, on-off and volume controls for a KS-16107 loudspeaker which is used for signalling and a "Calls Waiting" lamp. Two double jacks on the left side permit use of the 52 or 53-type head set. The set has a D150B-type mounting cord terminating in three 50-terminal KS-16689, List 1 plugs.

The 621A2 telephone set is the same as the 621A1 telephone set except that it has an additional 618A key and 60A lamp socket on the left side of the console and will therefore terminate a maximum of 20 trunks and attendant loops.

The function of the various keys and lamps are described in the Traffic Engineering Notes for May 1961, titled "Centrex Service."

Connections for the 621-type telephone set are covered in B.S.P. C38.656.02.

Connecting circuits required to utilize this set will be described in a future P.E.L. on 701B CENTREX service.

b) 622A1 Telephone Set for No. 5 Crossbar Centrex

The 622A1 telephone set is a pushbutton telephone set in a desk surface type plastic housing with low angle sloping front. It will terminate a maximum of ten trunks and attendant loops. On the front surface, in left to right order, are mounted a 618A key, 60A lamp socket, 619A key, 21C dial and 618A key. Above the 21C dial are mounted a "Registers Ready" lamp, on-off and volume controls for a KS-16107 loudspeaker for signalling and a "Calls Waiting" lamp. Two double jacks on the left side permit the use of the 52 or 53-type head set. The set has a D150C-type mounting cord terminating in three 50 terminal KS-16689, List 1 plugs.

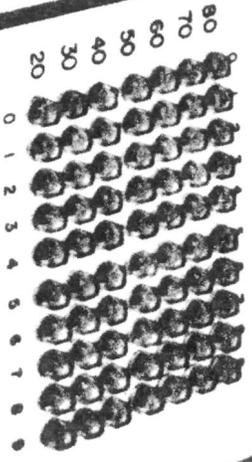
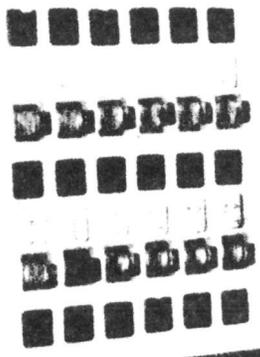
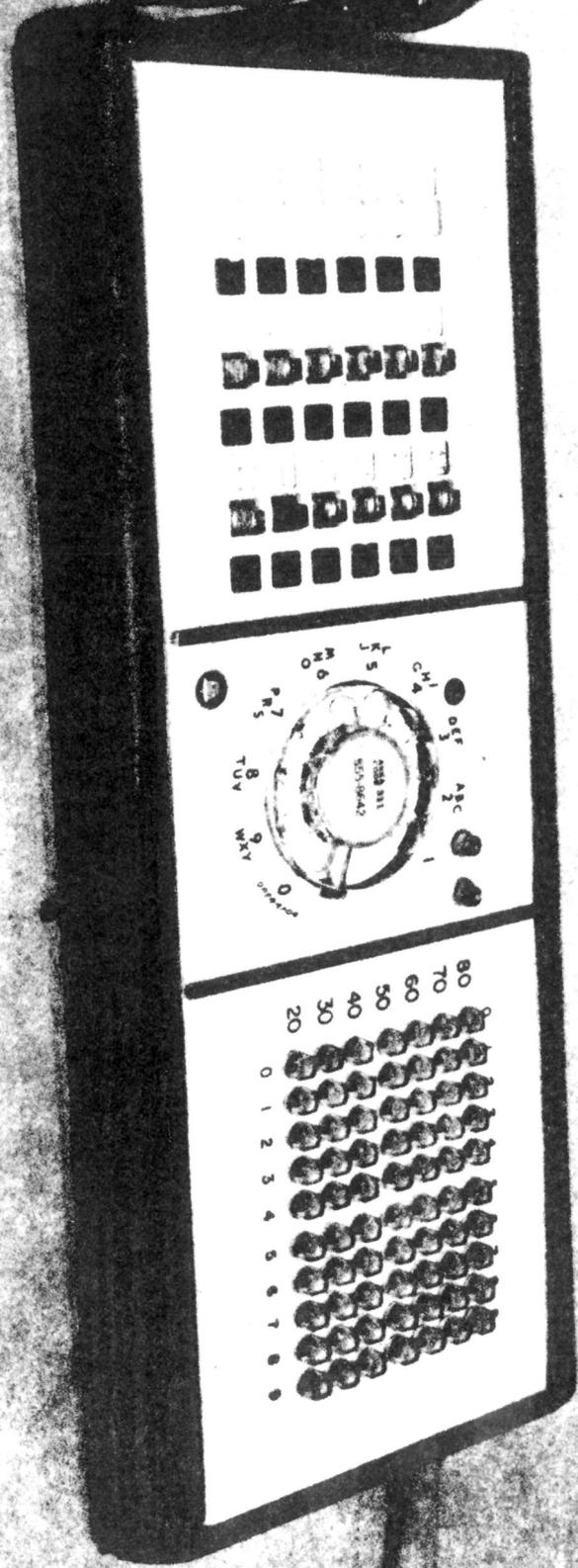
The function of the various keys and lamps are described in the Traffic Engineering Notes for May 1961, titled "Centrex Service."

Connections for the 622-type telephone set will be covered in B.S.P. C38.656.03.

Information concerning the No. 5 crossbar equipment associated with this console are included in Mr. Brady's letter to all Equipment and Building Engineers dated May 10, 1961 titled "No. 5 Crossbar - Distribution of X - Specifications - Centrex."

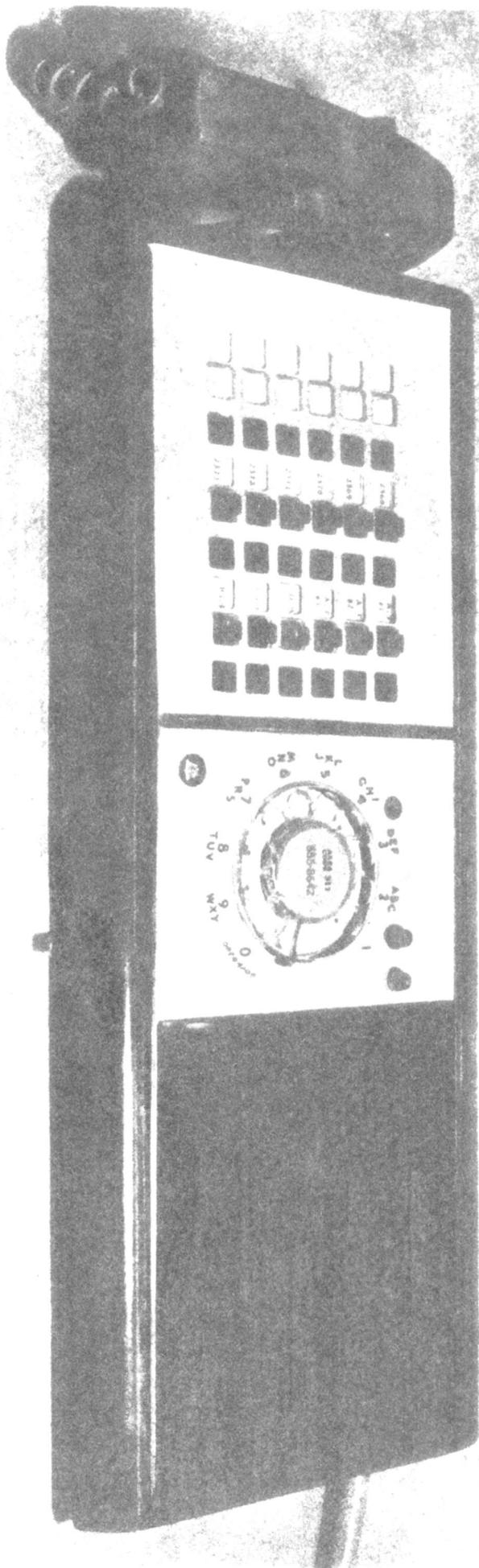


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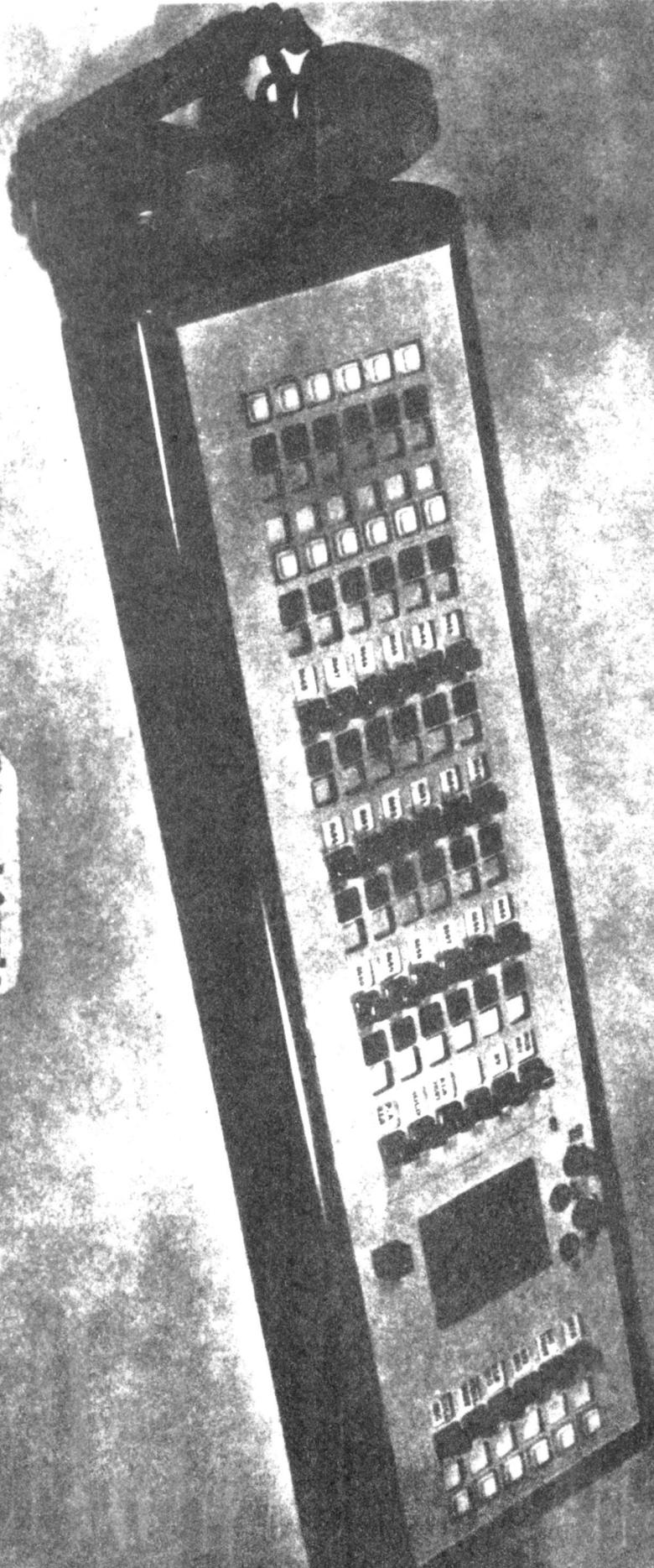
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ALM TELEPHONE 803



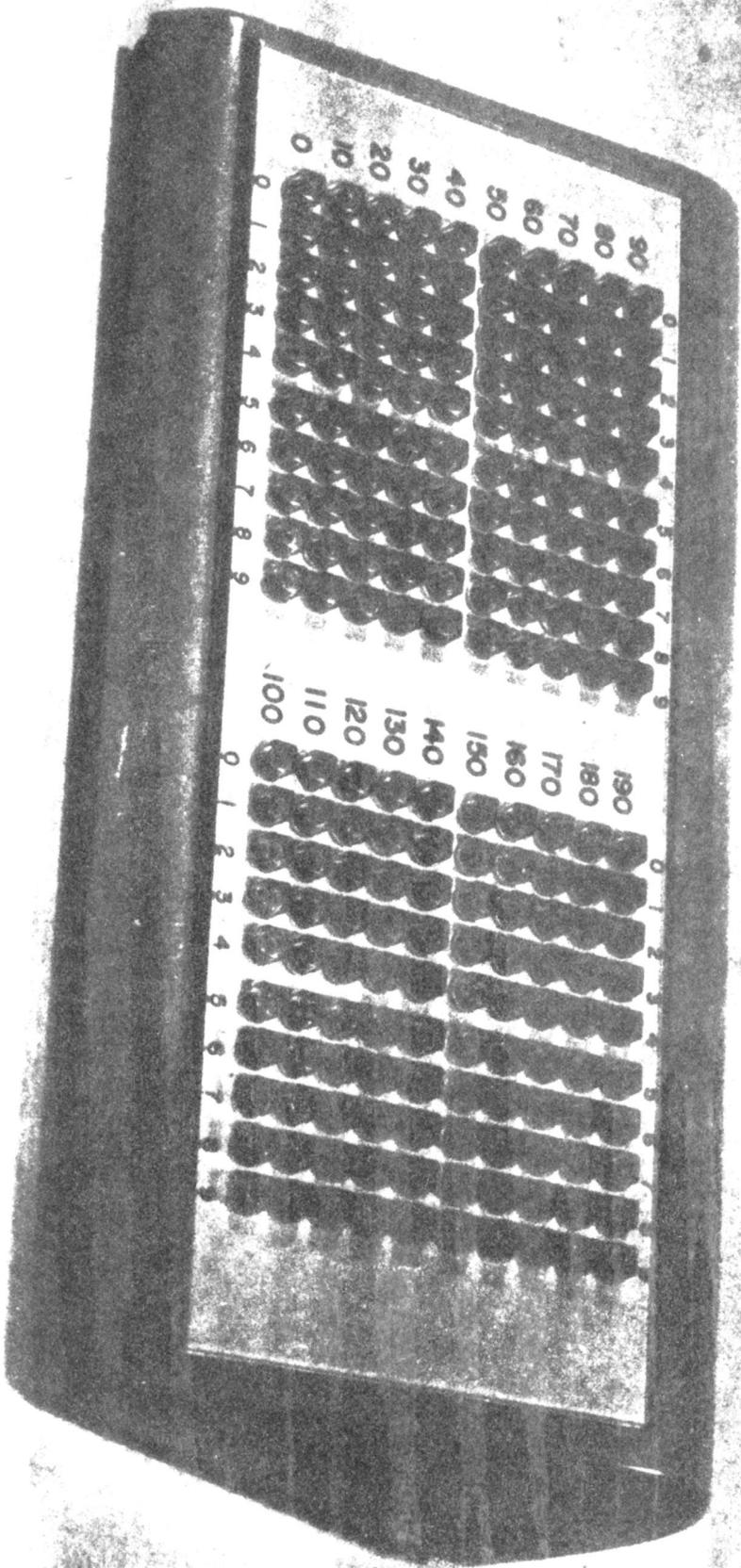
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Universal Control  
30 Trunk or Loop  
Capacity





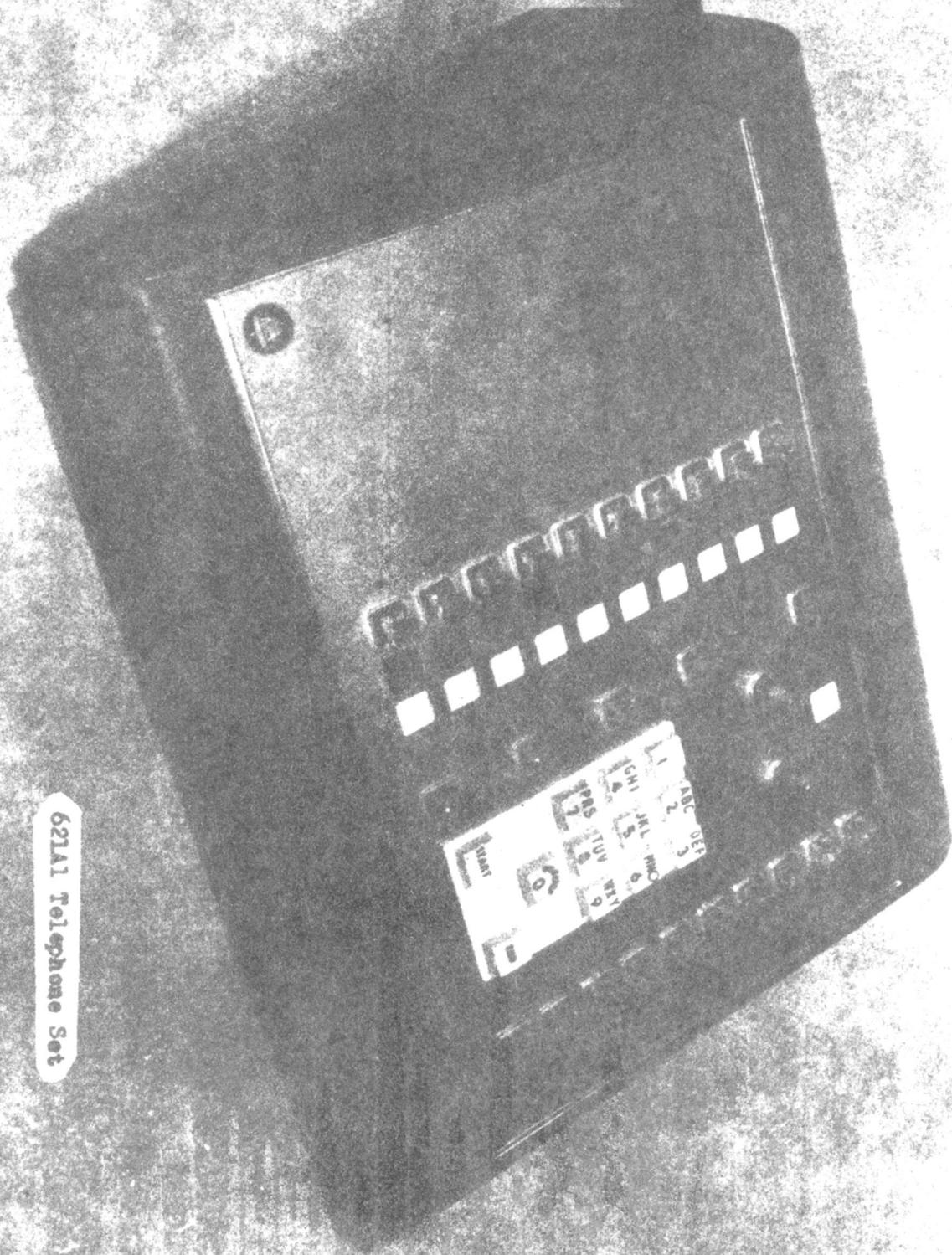
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Universal Console  
Direct Switches  
Selection Console

1-3140

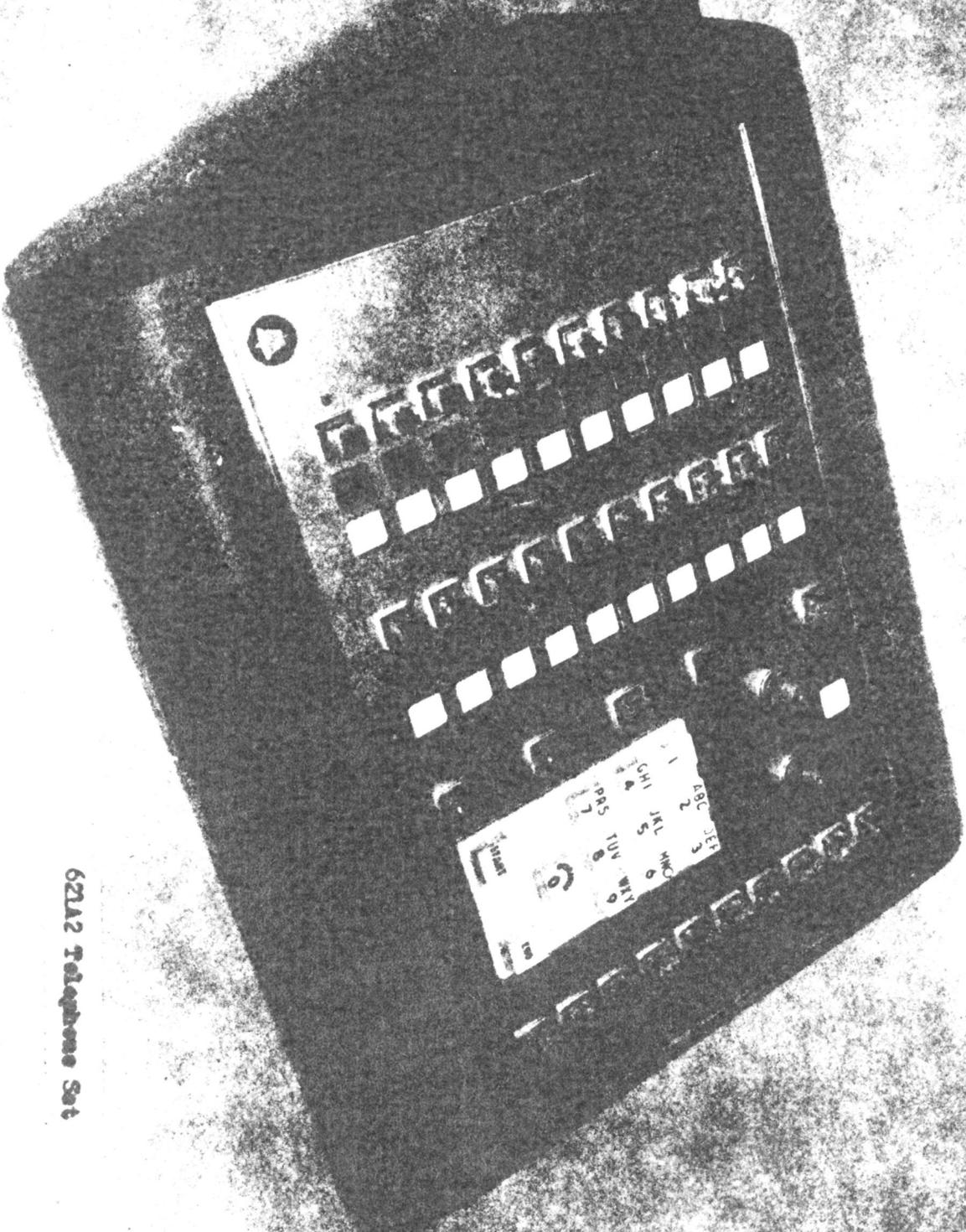
621A1 Telephone Set



39085

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621A2 Telephones Set



622A1 Telephone Set

