

subject: PBX Systems - 800A PBX - Custom and Standard Packages



Reviewed by General Administration

date: October 30, 1970 **APPLY AS APPROPRIATE**

American Telephone & Telegraph Company
195 Broadway
New York, N. Y. 10007
Phone (212) 393-9800

file no. [gl: 70-10-179
other: E.L. 875, Supplements E.L. 320
E.M. 1190
Topical Index Code 1C1.15D

to: Chief Engineers (copies included for General Traffic Managers, General Plant Managers, Marketing Department Mailing List)

from: Engineering Director - Customer Telephone Systems

synopsis: Updates information on the Standard and Custom 800A PBX Packages. The most popular line sizes of the Standard Packages are available in 2 weeks and Custom Packages in 4 weeks.

* * *

In an effort to reduce total service intervals on 800A PBX's, E.L. 320 described two new 800A PBX system packaging arrangements.

The first arrangement, Standard 800A PBX Packages, have been in service since September 1969. The following configurations, including a fully assembled and tested 800A console, are now available on a two week factory interval.

<u>Standard Package</u>	<u>Series Service - List Nos.</u>
44L - Heavy Traffic	200, 300
60L - Heavy Traffic	200, 300
80L - Heavy Traffic	200, 201, 202, 300, 301, 302

All other Standard Package configurations covered in BSP 809-850-151 are available on an 8 week factory interval. As demand develops for other configurations, they will be considered for stocking and a two week factory delivery interval.

The second arrangement, Custom Packages, are now available in the same line sizes as listed above for order on a 4 week interval. Initially, this interval will be limited to 10 per cent of each company's total of 800A PBX order input. As experience is gained with Custom Packages, consideration will be given to reducing this interval to 3 weeks.

The attached notes describe the Standard and Custom Packages in more detail and the ordering format and procedures to be used with Standard and Custom Packages.

W. Schiavone
Engineering Director

JG:mk

Attachment

Standard 800A PBX Packages

The Standard 800A PBX Packages are as described in E.L. 320 and BSP 809-850-151. The important features of these Packages are as follows:

<u>Package Size</u>	<u>No. of Equipped Lines</u>
44 line	32
60 line	36
80 line	42

Additional Factory Service

- I. The factory will provide manually prepared job records (listing of J and SD information) of the system as shipped. These job records will be sent to the addressee listed on the order face sheet to receive job records.
- II. Installed by the Factory
 1. Quick-connect field equipped with console connecting cord installed on the left-hand side of the cabinet.
 2. Quick-connect field strapped as follows:

<u>Console Key</u>	<u>"AT" Termination</u>
1-6	Misc. Night, Pos. Rls, Trans., Rls. Dest., Hold, and Start, respectively
7-10	Attd. Trunk, 0-3, respectively
11	Attd. Conf.
12	Dial Conf.
13-18	C.O. Trunk, 0-5, respectively
19-24	C.O. Trunk, 8-9, 12-14, 16, respectively
25	C.O. Trunk, 17
26-27	C.O. Trunk, 10-11, respectively
28-30	Spare

3. Code strapping as follows:

	<u>Code</u>
Attendant Trunk	0
C.O. Trunk Access (Single Trunk Group)	9

	<u>Code</u>
Trunk Answer any Station (Series 300)	89
Attendant Conference Trunk Access (Series 200 and 300)	88

4. Attendant position circuit strapped for series package requested.
5. Plug-in individual plugs on networks. Plugs will be left in place where possible but on 2 cabinet systems, shipping arrangements do not permit all plugs to be left in place.

III. Concurrently with the introduction of these new packages, the factory will stock the following equipment which will also be shipped on the same intervals as the 800A PBX.

1. 15A1 and 15A5, 16C1 and 16C2 consoles ordered with each system will be assembled and tested at Shreveport, La., and shipped direct to the job in the same interval as the 800A PBX.
2. All 800A circuit packs such as C. O. trunks, additional lines, etc.
3. All J58860 coded items.
4. The following miscellaneous equipment:

J58822 B-2	L-1	3A Code Call
	L-1, M	"
	L-14	"
	L-14, 16	"
	L-4, 17 and J	"
J58824 L-1	L-9, E/W 2-L4	Dial Rep. Tie Trunk
J58824 CF-1	L-3	"
	L-4 E/W L-B	"
J58824 AT-1	L-2	Tie Trunk
J58824 CD-1	L-13	Interface Trunk
	L-13, E/W L-5	"
	12 and A	"
	L-2, WA	"
	L-8	"
	L-9	"
	L-10	"
	L-11	"
J58827 C-1	L-4 E/W L-D, WA	Dial Dictation Trunk
J58827 D-1	L-2 E/W L-E	"

J58829 W-1	L-2, 3, C	Loudspeaker Paging
J58829 W-1	L-2, C	Loudspeaker Paging
J58844 A-1	L-1, B	TOUCH-TONE Receiver Type C
J99289 A-1	L-1, 2, A, WA, D	Type A TOUCH-TONE Rec. Shelf
J99289 B-1	L-1, A, SA	TOUCH-TONE Receiver Type A
(Cable Connector	B75A	50, 100, or 200 feet
(Cable Connector	B50A	50, 100, or 200 feet
(Cable Connector	A75A	50, 100, or 200 feet, single and double ended
(Cable Connector	A50B	50, 100, or 200 feet, single and double ended

The preceding list of miscellaneous equipment will be maintained in the Merchandise Catalogue, Section VI. It will be continually reviewed by the TELCO CUE Committee and items will be added or deleted as conditions warrant.

- IV. When items other than the preceding are required, such as dial long line units, E-type repeater, "Class C" equipment, fuses, wire, etc., they should be listed in the B1 Section of the Telephone Company order and assigned item numbers 501 and above. (See attachment B, C and D)

The Service Center will TWX items 1-500 to manufacturing on the same day as received basis. They will source items 501 and above locally and current intervals for these items will apply. This ordering procedure is described in greater detail in a supplement to Engineered Order Manual Section II, Supplement Q.

CUSTOM 800A PACKAGES

Custom 800A Packages are basically the same as described in Mr. W. Schiavoni's letter dated August 15, 1968, but includes all line sizes. However, only the 44-line, heavy traffic, 60-line, heavy traffic and 80-line heavy traffic systems will be provided on the published interval which is 4 weeks at present. All other systems will be on an interval greater than the above published interval.

The factory will provide all the items included in the Standard 800A Packages, as well as the following additional items:

- a. Install and test central office trunks specified. Trunks are installed in the following order 0-5, 8, 9, 12-14, 16, 17, 10-11.

- b. Install and test line circuits to order. Line circuits are installed lowest number up.
- c. Strap C.O. trunks for series 100, 200, or 300 options requested.
- d. Install and test ring-down tie trunks when ordered. The access code must be strapped locally. Also the associated common control strapping (AC7) must be done locally.
- e. Install and test auxiliary trunk circuit pack and carrier when ordered e.g. J58860 P-1 List 11 or List 2 (J58849 AF or BE Carrier). The associated common control strapping (AC7) must be done locally.
- f. Install and strap access code for dial conference when ordered. Station access 87, trunk access 86.
- g. Provide a complete system test, except the quick-connect field.

Concurrently with the introduction of lists 100, 200 and 300 Packages, the Western Electric Company Service Center or Region will data phone or TWX all 800A PBX orders (items 1-500) to manufacturing on the same day as received basis. Items 501 and above will be handled locally as previously described.

Thus, with the reduced manufacturing interval, reduced installation interval, and the expedited Western Electric handling of Telco orders, we should be approaching our interim goal of providing service in the under 81-line size PBX's in 30 working days.

Suggested work sheet and typical orders for the Standard and Custom 800A systems are shown in Attachments A to D.

SUGGESTED ORDER WORK SHEET

<u>Line No.</u>	<u>Note</u>	<u>Quantity</u>	<u>Unit</u>
1	1	1	J58860 PH-1, L300 800A PBX (80 Lines Heavy Trfc. 300 Series)
2	2	As Req'd	J58860 L-1, L-1 Outgoing C.O. Trunk
3	3	"	J58860 M-1, L-1, 5 Incoming C.O. Trunk
4	3	"	J58860 N-1, L-16 Two-Way C.O. Trunk (300 Series)
5	4	"	J58860 AE-1, L-2 Trunk Group Logic
6	5	"	J58860 P-1, L-11 Three Tie Trunk or Aux. Trunk Rack (CAB-1)
7	5	"	J58860 P-1, L-2 Rack (5 Tie Trunks or Aux. Trunks (CAB 2)
8	5	"	J58860 P-1, L-5 Set of Circuit Packs (R.D. Tie Trunk)
9	5	"	J58860 P-1, L-6 Set of Circuit Packs (Dial Tie Trunk or Paging)
10	5	"	J58860 P-1, L-8 Aux. Trunk for Rec. Tel. Dictation
11	5	"	J58860 P-1, L-9 Additional Ring Supply
12	6	"	J58860 U-1, L-1 Auxiliary Line Circuit for 3A Code Call
13	7	"	J58860 T-1, L-1 Circuit Packs for Dial Controlled Conference Circuit
14	8	"	J58860 AB-1, L-1 Line Circuit Package
15	9	1	Console Telephone 15A1, 15A5, 16C1 or 16C2
16	10	As Req'd	Cable Connector B75A, 100 Feet
17	10	"	Cable Connector B50A, 100 Feet
18	11	"	(Tie Trunks, Misc. Trunks, Cables and Other Misc. Eqpt.)

SUGGESTED ORDER WORK SHEET NOTES

<u>Note</u>	<u>Line No.</u>	<u>Explanation or Instructions</u>
		(Reference Tables shown in BSP 809-850-151)
1	1	See Summary Specification J58860 for packages other than 80-line, heavy, Series 300, rotary dial.
2	2	List 1 or 2 depending on whether toll diversion is required.
3	3-4	Refer Table D.
4	5	Refer Table O. List 1 is furnished as part of a Series 300 package.
5	6-11	Refer Table F.
6	12	Refer Table A - Step 13.
7	13	Refer Table A - Step 12.
8	14	If more stations are required than provided with the basic package, provide one unit for every additional four lines required.
9	15	15 Type for Series 100 service, 16 Type for Series 200 and 300 service.
10	16-17	Cables permit plugging console direct to 800A PBX. Use where duct size permits. 50, 100, and 200 feet lengths will be stocked.
11	18	Refer Table F and list of Misc. Eqpt. previously listed.

Typical Order for a Standard 800A PBX Package with:

- 80 Lines (50 lines working)
- Series 300
- Heavy Traffic
- 3 OGT Trunks
- 12 Two-Way C.O. Trunks
- 1 Loudspeaker Paging Trunk
- Touch-Tone Calling - Type A

SUMMARY OF MATERIAL

<u>Item No.</u>	<u>Ordered</u>	<u>Description</u>
1	1	J58860-PH-1, List 302 80 Line, Heavy, 800A PBX
2	1	Console, Tel., 16C2
3	1	Cable Connector, B75A, 100 Feet
4	1	Cable Connector, B50A, 100 Feet
5	2	J58860 AB-1, List 1 Line Circuits
6	12	J58860 N-1, List 16 Two-Way C.O. Trunk
7	3	J58860 L-1, List 1 OGT C.O.Trunk
8	1	J58860 AE-1, List 2 Trunk Logic (AC-9)
9	1	J58860 P-1, List 11 Aux. Trunk Rack (AF)
10	1	J58860 P-1, List 6 Aux. Trunk (Loudspeaker)
11	1	J58829 W-1, List 2, 3, and C Loudspeaker Paging Trunk

<u>Item No.</u>	<u>Ordered</u>	<u>Description</u>
501	30	70A Fuses
502	5	70G Fuses
503	25 ft.	P 46A020 Y-G 20 BH Wire etc.

Typical Order for a Custom 800A PBX Package with:

- 80 Lines (46 lines working)
- Series 300
- Heavy Traffic
- 3 OGT Trunks
- 10 Two-Way C.O. Trunks
- 1 Ring Down Tie Trunk
- 1 Dial Conf. Circuit
- Loudspeaker Paging
- TOUCH-TONE Calling - Type A

SUMMARY OF MATERIAL

<u>Item No.</u>	<u>Ordered</u>	<u>Description</u>
1	1	J58860 PH-1, List 302 80 Line Heavy 800A PBX, equipped with:
	1	J58860 AB-1, List 1 Line Circuits
	3	J58860 L-1, List 2 OGT Trunk
	10	J58860 N-1, List 18 Two-Way C.O. Trunk
	1	J58860 AE-1, List 2 Trunk Logic (AC-9)
	1	J58860 P-1, List 11 Aux. Trunk Carrier (AF)
	1	J58860 P-1, List 5 Ring Down Tie Trunk
	1	J58860 P-1, List 6 Aux. Trunk (Loudspeaker)
	1	J58860 T-1, List 1 Dial Conference Circuit
2	1	Console, Tel., 16C2
3	1	Cable Connector, B75A, 100 Feet
4	1	Cable Connector, B50A, 100 Feet

<u>Item No.</u>	<u>Ordered</u>	<u>Description</u>
* 5	1	J58829 W-1, List 2, 3 & C Loudspeaker Paging Trunk
501	30	70A Fuses
502	5	70G Fuses Etc.

* Will be shipped loose and installed locally

Typical Order for a Standard 800A Package with:

- 44 Line (32 working)
- Series 200
- Heavy Traffic
- 6 C.O. Trunks
- TOUCH-TONE Calling - Type C

SUMMARY OF MATERIAL

<u>Item No.</u>	<u>Ordered</u>	<u>Description</u>
* 1	1	J58860 PF-1, List 201, 44 line, Heavy 800A PBX
2	1	Console, Tel, 16C2
3	6	J58860 N-1, List 13 Two-Way C.O. Trunk
4	1	Cable Connector, B75A, 100 Feet
5	1	Cable Connector, B50A, 100 Feet
501	1	16C Apparatus Mounting
502	2	Fuses MDL 1/2 Amp
503	2	Fuses ABC 1/2 Amp
504	4	Fuses AGC 1 Amp
505	2	Fuses MDL 1 Amp
506	100 ft.	403 M Cable Etc.

* This is a non-stock Package, non-stock interval will apply.