

# **SERVICE Guide**

PACIFIC TELEPHONE  
BELL OF NEVADA  
PLANT

JANUARY, 1967

## FOREWORD

This Service Guide contains information useful as a ready reference for field forces in doing their daily job. Much of the information in the Guide may also be found in more detail in Bell System Practices or Plant Instructions.

If you need a new or extra copy of the Service Guide talk to your supervisor.

Order field stock of the Service Guide on Form P-3056, Order For Practices and Instructions. Send the order to your local Distribution Service Center. Word the order "(Copies) Service Guide".

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P.R. # \_\_\_\_\_ Geo. Code \_\_\_\_\_

## TELEPHONE NUMBERS

Assignment Simple \_\_\_\_\_

Assignment Complex \_\_\_\_\_

Cable Locating \_\_\_\_\_

Cable Test \_\_\_\_\_

Coin Collection \_\_\_\_\_

Chf. Deskman \_\_\_\_\_

Chf. Spcl. Agent \_\_\_\_\_

District Office \_\_\_\_\_

Doctor \_\_\_\_\_

Emergency Rd. Serv. \_\_\_\_\_

FEX S.O. Desk \_\_\_\_\_

Foreman \_\_\_\_\_

## TELEPHONE NUMBERS

Frames \_\_\_\_\_

L. I. Clerk \_\_\_\_\_

Marketing Dept. \_\_\_\_\_

Order Board \_\_\_\_\_

REPORT SALES \_\_\_\_\_

Loc. Test Board \_\_\_\_\_

Spcl. Accounts \_\_\_\_\_

Switchroom \_\_\_\_\_

Tel. Planning Serv. \_\_\_\_\_

Toll Serv. Orders \_\_\_\_\_

Toll Test \_\_\_\_\_

## EXCHANGE RATES

Exchange \_\_\_\_\_

### RESIDENCE SERVICE

	Monthly Rate	
	Flat Rate	Message Rate
Individual Line		
Two Party Line		
Four Party Line		
Suburban		
Extension		

### BUSINESS RATE

	Monthly Rate	
	Flat Rate	Message Rate
Individual Line		
Two Party Line		
Suburban		
Semi Public		
PBX Trunk		
Extension		

Basic Abbreviations-Residence and Business  
for pages showing charges

LI	Left-in Station (disconnected)
SC	Service Charge (Charge for connecting sets)
IC	Installation Charge (Equipment other than basic set)
CL	Change Location
CI	Change Instrument
RC	Rearrangement Charge
T & F	When a customer moves from one address to another (To & From)
T	Install end of a T & F
F	Disconnect end of a T & F
KTS	Key Telephone Service

## EXCHANGE RATES

Exchange \_\_\_\_\_

RESIDENCE SERVICE	Monthly Rate	
	Flat Rate	Message Rate
Individual Line		
Two Party Line		
Four Party Line		
Suburban		
Extension		

BUSINESS RATE	Monthly Rate	
	Flat Rate	Message Rate
Individual Line		
Two Party Line		
Suburban		
Semi Public		
PBX Trunk		
Extension		

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# BASIC SERVICE CHARGE

	Monthly Rate (Each)	SC CI CL
<b>RESIDENCE BASIC CHARGES</b>		
New Connects, Reconnects, T & F Per line - with or without IOP This charge includes adding one or more extensions, bells, gangs or bell chimes; changing color, type or location of an existing IOP - if all work is done at the same time, and at the same premises	-	SC 8.50
Existing Service		
*Change Location of set (CL)	-	CL 5.00EH
*Change Instrument (cust. request)	-	CI 5.00FH
Extension Added to New Service	1.00A	B
Existing Service	1.00A	SC 5.00BC
<b>BUSINESS BASIC CHARGES</b>		
New Connects, Reconnects, T & F Per line - No IOP	-	SC 15.00
IOP connected AS IS, per line	-	SC 15.00
All other IOP cases	-	JK
Existing Service		
Change instrument (cust. request)	-	CI 6.00G
Change location of set (CL)	-	CL 6.00G
Extension Added to		
*New service	AI	SC 6.00D
*Existing Service	AI	SC 6.00D

A-In addition to your regular monthly rate.

B-One or more Extensions may be installed for same SC charge.

C-NO SC if remove a 25' cord.

D-Apply to each extension installed.

E-May also change color (CI).

F-May also change location (CL).

G-Apply to each station changed.

H-\$5.00 Applied to single station, 2 or more \$8.50 max. per res.  
line

I-\$1.00 for message service, \$1.50 for flat service.

J-\$15.00 per line plus \$6.00 for each set moved or changed - OR -  
the charge applicable to establish if No IOP - whichever is lower

K-No change instrument or change location charge applies when a  
change of IOP is required to provide service customer ordered  
(e.g., IOP coin-customer orders non coin service).

# "PRINCESS"

Princess - 700 Series - 502-710-400	Monthly Rate (Each)	IC	SC CI CL
<b>RATES ARE IN ADDITION TO OTHER CHARGES</b>			
<b>RESIDENCE</b>			
New Connect, Reconnects, T & F	.75A	5.00BC	SC 8.50D
Change Instrument to Princess	.75A	5.00BC	CI 5.00GH
Change Color on Princess	-	-	CI 5.00GH
Change Location of Princess	-	-	CL 5.00HI
Add Princess extension	1.75A	5.00BC	SC 5.00DE
Regrade where CI would be required	.75A	5.00BC	J
Transmission Rezoneing	.75A	5.00B	J
Cords, 9' and 13' mounting type (4' spring cord is standard)	-	5.00B	-
Ringer, Activate, Deactivate or Install	-	-	RC 5.00HL
<b>BUSINESS</b>			
New Connect, Reconnects, * T & F	.75A	5.00BC	SC 15.00
*Change Instrument to Princess	.75A	5.00BC	CI 6.00K
Change Color of Princess	-	-	CI 6.00GK
Change Location of Princess	-	-	CL 6.00IK
*Add Princess extension	AN	5.00BC	SC 6.00F
Cords, 9' and 13' mounting type (4' spring cord is standard)	-	5.00B	-
Ringer, Activate, Deactivate or Install	-	-	RC 6.00LM

A-In Addition to your regular monthly rate.

B-Apply to each installed.

C-NO IC if: LI, or have Princess credit or if customer had  
Princess set in any Bell System Company in Continental U.S.  
or in Bell Telephone Company of Canada.

D-One or more extensions may be installed for one SC charge.

E-\$5.00 waived if a 25' cord removed.

F-Apply to each extension installed.

G-May also change location (CL).

H-\$5.00 applied to a single station, 2 or more \$8.50 maximum  
per line.

I-May also change color of Princess (CI).

J-\$5.00 CI waived.

K-Apply to each station changed.

L-Waived if done at same time as other change at station involved.

M-Apply to each ringer changed or installed.

N-\$1.75 for message service, \$2.25 for flat service.

# COLOR

COLOR - 500 SERIES	IC	SC CI CL
ONE TIME COLOR CHARGE IN ADDITION		
RESIDENCE		
New Connects, Reconnects, T & F's	5.00ABC	SC 8.50D
Change Black main or extension station to color	5.00AC	CI 5.00BH
* Change color (CI)	-	CI 5.00BH
* Change location (CL)	-	CL 5.00FH
* Change Princess to Color	5.00AG	CI 5.00BH
Change Two-Tone (TT) to Color		CI 5.00A
Add Extension in Color		
1.00 per month	5.00AC	SC 5.00D
BUSINESS		
* New Connects, Reconnects, T & F's	5.00ABC	SC 15.00
Change Black main or extension station to color	5.00AC	CI 6.00B
* Change color (CI)	-	CI 6.00B
* Change location (CL)	-	CL 6.00F
* Change Princess to Color	5.00AG	CI 6.00B
* Change Two-Tone (TT) to Color		CI 6.00I
Add Extension in Color		
* 1.00 per month - message service	5.00AC	SC 6.00E
* 1.50 per month - flat service	5.00AC	SC 6.00E

A - Apply to each color installed.

B - May also change location (CL).

C - NO IC if: LI or had color set in Calif. (any company) or had color in any Bell System Company in Continental U.S. or in Bell Telephone Company of Canada.

D - One or more Extensions may be installed for one SC charge.

E - Apply to each business extension installed.

F - May also change color.

G - NO IC if: Customer had full color, changed to Princess, requests change back to full color or wants to keep Princess and add full color at same or new address.

H - Apply CI \$5.00 for one set, two or more \$8.50 max. per res. line.

I - Apply \$6.00 to each set changed.

# HOME INTERPHONE

1A Home Interphone System Residence	Monthly Rate (Each)	IC	SC CI CL
Rates in addition to other charges for service and extensions.			
MINIMUM PLAN			
(1 & 2 Party Flat Rate)	5.25	25.00A	-
Basic Equipment - \$4.50 mo.	-	-	-
Control Unit			
Main station equipped			
one door answering unit			
Extension station equipped			
\$75 mo.	-	-	-
MAXIMUM PLAN			
1 Party service	8.50	25.00A	-
5 telephones equipped			
2 door answering units			
2 Party Service	7.75	25.00A	-
4 telephones equipped			
2 door answering unit			
INSTALLING			
Minimum Plan			
New service	5.25	25.00A	SC 8.50B
Existing service	5.25	25.00A	DEF
Each Additional Station			
Equipped			
New Service	.75	A	BC
Existing Service			
New Extension Station	.75	A	SC 5.00B
Existing Extension Station	.75	A	CDE
Second door answering unit			
New Service	1.00	-	-
Existing service	1.00	4.00	-

Interphone stations not for jacks and plugs

A - Minimum or Maximum Plan may be installed for \$25.00 IC on original installation.

B - One or more Extensions may be installed for one SC Charge.

C - Apply CI \$5.00 to single station, 2 or more \$8.50 maximum per line.

D - May change color or location or both.

E - CI or CL does not apply if station changed to color (\$5.00).

# AUXILIARY EQUIPMENT

Auxiliary Equipment Residence and Business	Monthly Rate (Each)	IC	SC CI CL
ADDITIONAL DIRECTORY LISTINGS	.35B	-	-
AMPLIFIER FEATURES			
Amplifier Set	1.00A	1.00	O
Speakerphone A	5.00A	-	-
Speakerphone B	7.50A	-	-
New Service	-	-	SC 8.50DE
Add as Extension Station	I	-	SC 5.00EF
Change Existing Set	-	-	RC 5.00JKL
AUTOMATIC ANSWERING SETS			
Answer Only	13.50A	35.00C	-
Answer and Record - Type A	5.00A	35.00C	-
Electronic Secretary - Wire	14.00A	35.00C	-
Electronic Secretary - Tape	25.00A	35.00C	-
CORDS			
Handset, 9' spring type (excl. PRN)	-	5.00C	-
Mounting, 9' or 13' straight (excl. PRN)	-	5.00C	-
Mounting, 5 1/2' or 9' spring type (excl. PRN)	-	5.00C	-
Mounting, 25' straight (excl. PRN)	-	7.50C	-
DIAL FEATURES			
Illuminated Dial	.75A	-	-
Illuminated Dial + Night Light	1.00A	-	-
New Service	-	-	SC 8.50DE
Add Extension Station	I	-	SC 5.00EF
Change existing set	-	-	CI 5.00JKL
PANEL PHONE	M	25.00	5.00L
JACKS AND PLUGS			
Flush Jack (indoor)	-	10.00C	-
Non-Flush Jack (indoor)	-	10.00C	-
Marine (outdoor)	-	25.00C	-
Patio (outdoor)	-	25.00C	-
RINGERS			
Bell Chime (1 & 2 Party only)	.65A	5.00G	-
Loud Ringing Gongs	.60A	4.00G	-
Extension Bell	.50A	4.00G	-
Bell Cut-Off Key			
New Service	.35H	1.00	-
Add extension station	.35H	1.00	-
Add to existing service	.35H	1.00	-

- A - IN ADDITION to your regular monthly rate.  
 B - BUSINESS - \$.75 each listing.  
 C - Apply to each item installed.  
 D - Res. \$8.50 (Bus. \$15.00).  
 E - One or More Exts. may be installed for same SC chg. (Business-Apply \$6.00 to ea. extension installed).  
 F - NO SC if remove a 25' cord. (Does not apply to Business).  
 G - WAIVED if installed on same Prem. with residence main or extension station to which an SC charge is applied, or if "In place".  
 H - One or more stations may have Bells cut off at set if Bell Chime installed on same premise.  
 I - In addition to 1.00 per month for each extension.  
 J - May also change location. (CL).  
 K - May change color if in color.  
 L - One station 5.00, 2 or more 8.50 max. per res. line (Bus. -6.00 ea. station).  
 M - No extra monthly charge beyond regular station rate of the class, grade and type ordered.  
 N - No charge from A to B-RC 5.00 from B to A.  
 O - CI \$5.00 if set changed.

- 12 -

# BUDGET TERMS\*

(Residence service only)

When Connection Charges Total	Order must include charges for Princess or color					
↓	6 Mos.	5 Mos.	4 Mos.	3 Mos.	2 Mos.	1 Mo.
9.00→			2.25	3.00	4.50	9.00
10.00		2.00	2.50	3.33	5.00	10.00
12.00	2.00	2.40	3.00	4.00	6.00	12.00
14.00	2.33	2.80	3.50	4.66	7.00	14.00
15.00	2.50	3.00	3.75	5.00	7.50	15.00
17.00	2.83	3.40	4.25	5.66	8.50	17.00
19.00	3.17	3.80	4.75	6.33	9.50	19.00
20.00	3.33	4.00	5.00	6.66	10.00	20.00
22.00	3.67	4.40	5.50	7.33	11.00	22.00
24.00	4.00	4.80	6.00	8.00	12.00	24.00
25.00	4.17	5.00	6.25	8.33	12.50	25.00
27.00	4.50	5.40	6.75	9.00	13.50	27.00
29.00	4.83	5.80	7.25	9.66	14.50	29.00
30.00	5.00	6.00	7.50	10.00	15.00	30.00
32.00	5.33	6.40	8.00	10.66	16.00	32.00
34.00	5.67	6.80	8.50	11.33	17.00	34.00
35.00	5.83	7.00	8.75	11.66	17.50	35.00
37.00	6.16	7.40	9.25	12.33	18.50	37.00
39.00	6.50	7.80	9.75	13.00	19.50	39.00
40.00	6.67	8.00	10.00	13.33	20.00	40.00
42.00	7.00	8.40	10.50	14.00	21.00	42.00
44.00	7.33	8.80	11.00	14.66	22.00	44.00
47.00	7.83	9.40	11.75	15.66	23.50	47.00

\*TO BE QUOTED AS APPROXIMATION ONLY

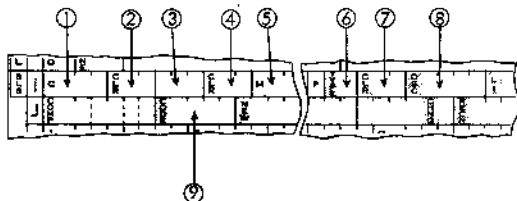


## CODING RESIDENCE SALES ON EDP SERVICE ORDERS

Codes used in the SLS (sales) column on EDP service orders to identify sales are as follows:

- C - Commercial business sale
- M - Marketing sale
- B - Primary service - Commercial business or residence sale
- 1 - Plant sale - installation visit
- 2 - Plant sale - repair visit
- 3 - Plant sale - other contact

Coding applying to sales on Lines I and J of EDP orders is given below:



1. Number of Commercial unit to get sales credit
2. Number of Commercial color sales - business service
3. Number of second Commercial unit to get sales credit
4. Number of color business sales made by second Commercial unit
5. Marketing sales information
6. Type of Plant sale
7. Number of Plant color sales
8. Identification number of Plant employee to get sales credit when other than one completing order
9. Identification number of Plant employee completing order

## INSTALLATION SERVICE RESULTS PLAN CODING SUMMARY

S.I. 142

### APPLICATION CODES

### TYPE OF SERVICE AND ORDER

- R ..... Regular orders - In and miscellaneous orders for simple business service, including one or more line services with 0 to 1 button sets. (Excludes all special services - see code S.) Code R is not used on "Regular" residence orders. Accounting will apply code when sampling orders for measurement.
- S ..... Special orders - All "In" and miscellaneous orders for complex and special services such as:
- 4 or more button sets or equivalent
  - Coin service
  - PBX and CENTREX service (includes stations, trunks, tie lines, etc.)
  - Private line telephone and teletypewriter
  - TWX service
  - Program and other leased channels
  - Data and DATAPHONE service
  - Mobile service
  - WATS lines
  - TELEPAK service
  - Special assemblies
  - Secretarial lines
  - Business answering lines
  - Automatic answering sets
  - Automatic dialers
  - Speakerphones

NOTE: Codes R and S are not used on "Out" orders for lines and stations or on "F" orders and record orders.

### APPOINTMENT CODES

### TYPE OF APPOINTMENT

- W ..... Company negotiated date or nonappointed for Company reasons.
- X ..... Customer requested appointment date or non-appointed for customer reasons.
- Y ..... Company initiated (orders issued for Company reasons).

NOTE: Type of appointment code is required for initial appointments only on all "In" and miscellaneous orders. Code not required with subsequent due dates, nor on "Out" orders for lines or stations, "F" orders, and record orders.

## S.I. 142

## REASON APPOINTMENT MISSED

APPOINTMENT  
NOT MET CODE

APPOINTMENTS NOT MET —  
COMPANY REASON

PL . . . . Plant work load conditions.

PF . . . . Lack of facilities (OP or CO).

PO . . . . All other Company reasons including station equipment, shortage or delay.

### APPOINTMENTS NOT MET — CUSTOMER REASONS

SA . . . . . No access.

SR . . . . Customer requests later date.

SL\* = . . . . Customer requests later date.

SO . . . . All other customer reasons.

\*Plant use SR — not SL.

NOTE: See Exhibit, Page 17.

**EXHIBIT - EDP ORDER**

[illegible]

- ① Taken Date
- ② Number of Stations, or Customer Terminations Worked On
- ③ Type of Service Application Code.
- ④ Due Date
- ⑤ Type Appointment
- ⑥ Missed Appointment Code
- ⑦ Subsequent Appt. Dates and Missed Appt. Code

Note: Type appointment code not required after subsequent appointment dates.

# USOC CODES

## FOR POPULAR ITEMS OF SERVICE AND EQUIPMENT

(See USOC Book for complete list)

<u>CODES</u>	<u>DESCRIPTION</u>
1FB	Individ Flat Bus
1FL	Individ Flat Bus Line - Without Tel
1FR	Individ Flat Res
1L	See Mileage PAGE 24*
1MB	Individ Meas Bus
1ML	Individ Meas Bus Line - Without Tel
1PC	Pub - Coin Collector Sta
1SP	Semipub - Coin Collector
2CM	Cord - Mtg - 25' Non-Ret
2FB	Two-party Flat Bus
2FR	Two-party Flat Res
2MR	Two-party Meas Res
3CM	Cord - Mtg - 13' Non-Ret
3CR	Cord - Handset (Rec) - 13' Non-Ret
449	PBX Serv - Operators Chair
44G	PBX Serv - Vacant Level Trunk
4FR	Four-party Flat Res
4SR	Cord - Handset - 4' Ret
5AS	Cord - Head Tel Set - 15' Ret
5SC	Cord - Head Tel Set - 5' Ret
5SM	Cord - Mtg - 5-1/2' Ret
6DY	Aut Dialing Equip - Type B (Telrapid)
6DZ	Aut Dialing Equip - Type A (Dialaphone)
6ZV	Sig Cir - Addl Push-Button
7AS	Cord - Head Tel Set - 7' Ret
7FL	Tel Ans Serv - Bus Ans Line
8FM	Sub Flat Res
8FN	Sub Flat Bus
8TE	Head Tel Set - Push-to-Talk Switch
8TT	Arm Trans
9CM	Cord - Mtg - 9' Non-Ret
9CR	Cord - Handset (Rec) - 9' Non-Ret
9DL	PBX Serv - Hotel Guest Main Sta
9EY	Cord - Head Tel Set - 7' Non-Ret
9FF	Optional Detailed Message Unit Billing (ODMU)
9FL	Aut Ans Equip - Addl Cartridge - For Mod TT2 Elec Secty

9FU	Jack Indoor - 16 Contact - Non Flush
9SM	Cord - Mtg - 9' Ret
9SR	Cord - Handset (Rec) - 9' Ret
A59	Aut Ans Equip - Addl Double-Sided Ans Rec
AA6	Aut Ans - (Elec Secty) Ans & Rec - Wire
AAA	Aut Ans Equip - Ans Only (Elec Secty - Mod TT2)
AAR	Aut Ans - 1 Min Ans & Rec (Mod 1BA)
AC2	Aut Ans Equip - Type A (Mod 2A or 100A)
AFB	PBX Serv - Cordless Manual - Flat Bus
AMB	PBX Serv - Cordless Manual - Meas Bus
AMP	Tel Set - Vol Cont - Self-cont Amp
ASU	KTS - Loc Sig - (Other Than Dial Sel) - Aut Sig Unit For Intercom Line - One/Two Way
AT3	Single Head Rec, Sub For Stand Tel, With Holding (4A Key)
ATF	Att H Set, Sub For Stand Tel, With Hold (4A Key)
ATH	Att Head Tel Set/Single Head Rec - Furn With PBX
ATN	Attendant's H Set Hdle - Furn With PBX
ATW	Att's H Set Hdle, Additional
ATX	Head Tel Set With Single Head Rec, Addl
ATY	Att H Set Sub for Standard Tel, 4A Key - Without Holding (In Addition to Sta)
BCA	Relay - Line Signal - Cont Operation
BCB	Relay - Line Sig - Noncont Operation
BCP	Comb Code and Sel Unit/2 to 6 Buzzer Ckts
BEC	Bell Chime
BFB	PBX - Cord Manual, Non-Mult - Flat Bus
BL5	Sig Ckt - Rly - NC - Gong (Single Stroke) Same Mtg
BLD	Gong - Vibrating - Indoor - 10 In - Without Relay
BLE	Gong - Vibrating - Outdoor - 10 In - Without Relay
BLN	Special Billing Number Service - Q and Z - 1st Gr 50 or Less
BLQ	Special Billing Number Service - Q and Z - Ea Addl Gr 50 or Less
BMB	PBX - Cord Manual, Non-Mult - Meas Bus
BMH	PBX - Cord Manual, Non-Mult - Hotel - Flat Serv
BMZ	Local PL Magneto Sta
BUT	Signaling Key
BUZ	Buzzer
BYC	Relay for Busy Signal Operation
BZZ	Additional Buzzer

CAC Act Cst Billing - Chg Not Determined  
CACAC Est Cst Billing - Chg Determined  
CACLE Line Extension And Unusual Inst Charges  
CDD Sliding Scale Charge - Res Only  
CFB PEX - Cord Manual, Mult - Flat Bus  
CFF Manual Cutoff, Ea Line or Sta

CGR Sliding Scale Charge - PBX Only  
CH5 Rly NC - Musical Tone Bell - Same Mtg  
CHH Xylophone Sig and Cont Rly  
CLT Add Listing - Bus  
CMB PBX - Cord Manual, Mult - Meas Bus  
CMC Combined Line And Busy Lamp Control Unit, 20 or Less Sta  
CML Combined Line and Busy Lamp Common Equip  
CP9 Pub Tel Mtg - Special - Shelter, Canopy, etc.  
CT7 Booth - Semi-type 20  
CT8 Pub Tel Mtg - Walk-up, Drive-up  
CTB Booth - Indoor - Wood  
CTV Booth - Indoor - Metal  
CTW Booth - Outdoor - Wood  
CTY Booth - Outdoor - Metal  
CUB Shelf - Directory - Type 19  
CUF Semipub - Coin Service - Ext Coin Collector  
CUT Key for Sta Aux Sig Equip  
D5D KTS - DSEQ - Busy Lamp, 20 or Less Sta  
D5H KTS - DSEQ - Combined Line and Busy Lamp Operation  
DA2 KTS - Dial Sel Com Equip 10th Sta Code  
DA9 KTS - Dial Sel Com Equip 9 Sta Codes or Less  
DAA KTS 6A Sys - Line Equip - Per Channel  
DAD KTS - DSEQ - Com Equip Per Line - Ea Addl Sta Code  
DAM KTS 6A Sys - Add-on Conf Equip For Each Line  
DC9 KTS 6A Sys - Basic Eq With 9 Sta Code Numbers  
DCP KTS 6A Sys - Preset Conf Arr  
DCU KTS 6A Sys - Eq For Line & Busy Lamp Oper  
DLA KTS 6A Sys - Dial Tone Equip  
DLU KTS - DSEQ - Audible Sig  
DLY KTS 6A Sys - Ea Addl Code Over 9  
DSY KTS 6A Sys - Add-on Conf Eq For Ea Sta

EFB PBX - Dial Cord - Flat Bus (701-740)  
EMB PBX - Dial Cord - Meas Bus (701-740)  
ENT Zenith or Enterprise Service  
EX4 Sec Line - 1 Pty, 2 Pty PBX Trk Term on Conc  
EXB Ext Bell  
EXG Ext Bell - Loud Ringing Gong  
EXL Extension Line Without Tel  
EXS Sec Line - 1 Pty, 2 Pty Line Term or TAEQ  
EXT Ext Station  
FFB PBX - Dial Cordless - Flat Bus (756A)  
FJ3 Bell Circuit With Small Bell  
FJ6 Bell Circuit With Loud-Ringing Bell  
FJT Lamp Indicator Circuit, With Lamp Indicator  
FJZ Buzzer Circuit  
FMB PBX - Dial Cordless - Meas Bus (756A)  
FNA Directory Listing  
FXS Foreign Exchange Service  
HC2 Tel Set - Explosive Atmosphere - Hand  
HC4 Tel Set - Explosive Atmosphere - Pedestal Mount  
HCD Tel Set - Elevator - Flush Hand Type  
HCF Tel Set - Noise Cancelling Transmitter  
HCG Tel Set - Explosive Atmosphere - Wall Mount  
HCJ 22 Tel Set - Hand, Outdoor - Emergency Reporting  
HCJ 23 Tel Set - Hand, Outdoor - Self Lock  
HCJ 24 Tel Set - Hand, Outdoor - Key Lock  
HCJ 25 Tel Set - Hand, Outdoor - Non Lock  
HCL Tel Set - Illuminated Dial  
HCR Tel Set - Elevator - Semiflush Wall  
HCU Tel Set - Tel Set With Trans Cutoff  
HLD KTS - Holding - Each Station Arranged to Hold  
HMR Home Interphone - Second Door Ans Unit  
HMS Home Interphone - Basic Equip  
HMT Home Interphone - Equip to Conn Ext Tel to System  
HNA Horn - Indoor, Without Relay  
HNB Horn - Outdoor, Without Relay  
JK8 Jack - Indoor - 8 Contact  
JKA Single Head Rec, Sub for Stand Tel (4A Key Non-Hold)  
JKS Jack - Indoor - 3 or Contact  
JKT Jack - Weatherproof  
JUM Joint User Service

KD2 Call Director - 18 Button Capacity, Equip  
for 12  
 KD3 Call Director - 30 Button Capacity, Equip  
for 18  
 KD4 Call Director - 30 Button Capacity, Equip  
for 24  
 KDL Call Director - 30 Button Capacity, Equip  
for 30  
 KDS Call Director - 18 Button Capacity, Equip  
for 18  
 KDV Call Director - 30 Button Capacity, Equip  
for 12  
  
 KEX Priv Line Tel Sta  
 KKR Key Units - First 10-Line Key Unit  
 KKS Key Units - Additional 10-Line Key Unit  
 KL4 KTS - Line Cutoff - One or More Sta  
 KLL KTS - Dial Sel Sig, Aut Exclusion of Sta  
 KLM KTS - Key Illumination, Each Station  
 KU2 KTS - 12 Button Sep Key Unit  
 KUV KTS Call Dir Set - Jack Equip - Flash and  
Rel Keys  
  
 LCC Line Signal Control Unit, Continuous  
 LDF Spl Tel Set - Illuminated Dial - With Night  
Light  
  
 LHR KTS - Line Hold  
 LLT Directory Listing  
 LNC Line Signal Control Unit, Non-continuous  
 LP2 Lamp Ind, Two Lamps on One Mounting  
 LP3 Lamp Ind, Three Lamps on One Mounting  
 LP6 Lamp Ind, Four Lamps on One Mounting  
 LP7 Lamp Ind, Lamp on Individual Mounting  
 LPN Lamp Indicator, Glow Lamp (21 Type Indicator)  
 M66 Portable Magneto Tel Set  
  
 MVF Change Location - Change Charge  
  
 MVS Chg Inst and Location - Change Charge  
 NCB PBX - Night Listing Terminal  
 NCM KTS - Intercommunicating Line  
 NPU Directory Listing - Nonpublished  
 NTN Local PL Term on Equip Such as Turret,  
Key Cab, etc.  
  
 P24 PBX - Intercepting Trunk  
 P25 PBX - "0" Level Trunk

PA2 PBX - Cordless - Type B - 3 Trunks &  
7 Stations (506A)  
 PA3 PBX - Cordless - Type A - 3 Trunks &  
7 Stations (507A)  
 PA4 PBX - Cordless - Type B - 5 Trunks &  
12 Stations (506B)  
 PA5 PBX - Cordless - Type A - 5 Trunks &  
12 Stations (507B)  
 PB2 PBX - Cord - Non-Multiple - 120 Line  
 PB4 PBX - Cord - Non-Multiple - 40 Line  
 PB5 PBX - Cord - Non-Multiple - 320 Line  
 PB6 PBX - Cord - Non-Multiple - 60 Line  
 PB8 PBX - Cord - Non-Multiple - 80 Line  
 PKU KTS - Pickup  
 PRN Princess Set  
 PRT Noncontinuous Relay, Separately Mounted  
 PUP PBX - Foot Switch  
 PVL Local Priv Line Serv  
 PW2 PBX Main Sta - Dial System  
 PW4 PBX Sta Line - Dial System  
 PW5 PBX Main Sta - 756 System  
 PW8 PBX Sta Line - 756 System  
 PXA PBX Main Sta - Man System  
 PXB PBX Sta Line - Man System  
 RET Head Receiver - Single - Furn With Arm  
Trans  
 REX Head Receiver - Double  
 RLT Directory Listing  
  
 RW2 Rearrange Inside Wiring - Serv Charge  
  
 RWW Rearrange Outside Wiring - Serv Charge  
 SBV KTS - Line Equip For Busy Lamps  
  
 SCO Serv Charge - Change Loc Misc and Suppl  
Equip  
 SP3 Speakerphone - Type B (Mod 3A)  
 SPK Speakerphone - Type A (Mod 1A or 1A1)  
 SRR Replacement of Shoulder Rest  
 SRT Shoulder Rest  
  
 SUB Chg Inst Charge  
 TFB PBX - Trunks C.O. - Bus - Flat Rate  
 TFR PBX - Trunks C.O. - Res - Flat Rate  
 THB PBX - Trunks C.O. - Hotel - Meas Bus  
 TM2 PBX - Trunks C.O. - Bus - Meas Bus -  
Additional  
 TMB PBX - Trunks C.O. - Bus - Meas Bus -  
First  
 TW3 Directory Listing -

WKC KTS - Winking Hold  
 WR3 Cord - Heavy Duty Weather Proof  
 XCA KTS - Auto Exclusion Unit  
 XCL KTS - Selective Exclusion  
 XL5 KTS - Exclusion - Switch Hook Key  
 XLL Directory Listings  
 XLX KTS - Automatic Exclusion

#### \* CHANNELS, CIRCUITS AND MILEAGES

Codes for channels, circuits and mileages always start with 1L. Examples are 1LXAP, 1LLBC, etc. Full list of codes and descriptions are given in USOC Book. Call the PSC or your supervisor for details.

#### COLOR (1ST SUFFIX)

B Black  
 C Custom (Includes Old Imperial Sets)  
 D Gray  
 E Beige  
 F Brown  
 G Green  
 L Blue  
 P Pink  
 R Red  
 S Standard, or not applicable  
 T Turquoise  
 U Two Tone  
 V Ivory  
 W White  
 X Color where specific color not known  
 Y Yellow  
 Z Black, applies only to old type wall set billed at lower rate

#### TYPE OF TEL. STA. EQUIP (2ND SUFFIX)

A Wall Hand-Combined - Internal Keys - 4 or 6 But  
 B Line Terminating on Key or Jack  
 C Hand-Combined or Hand Cradle  
 D Desk - Obsolete Set  
 E Wall-Combined - 1 or 2 But (Except Amp Set)  
 G Hand-Combined or PRN - 1 or 2 But (Except Amp Set)  
 H Hand-Hanger  
 K Hand-Combined - Internal Keys - 4 or 6 But  
 L Hand-Hanger - External Keys - 4 or More But  
 M Wall-Combined - External Keys - 4 or More But  
 P Portable  
 U Hand-Combined - External Keys - 4 or More But  
 W Wall Hand-Combined  
 X Standard or Not Applicable  
 Y External Keys For Headset (4A Key)

NOTE: Non Dial shown in RMKS on order when applicable

#### KTS SQUARE PLAN

(680-324-950)

The "Square" KTS Code consists of three numerical designations separated by "X's", ie; 4 x 6 x 3.

(a) (b) (c)

(a) The first numeral designates the number of lines

(b) The second designates the number of stations.

(c) The third designates the features of the KTS system, as follows:

THIRD NUMBER	PKU (PICKUP)	HLD (HOLD)	NCM (INTER COM)	CMC (LINE & BUSY LMPs)	SBV (BUSY LMPs)
1	*				
2	*	*			
3	*	*	*		
4	*	*		*	
5	*	*	*	*	
6	*	*			*
7	*	*	*		*

## SPECIAL NON-USOC EDP CODES AND SUFFIXES

### Codes For Use On Lines D & F of EDP Order Form (Used Only at EDP Locations)

\*CC - Credit Card  
 \*DD - Revised Due Date  
 \*MN - Minimum Billing (Charge Only)  
 \*OB - Other Service  
 \*SQ - Square Plan  
 \*TS - Total telephone sets (Appears in "out" portion only)  
 \*RF - Reference Code For Record Purposes - No Plant Work

### Codes For Use On Line J of Order Only

Call Director or console, 12 button or 6051 key	- 12
Call Director or console, 18 button	- 18
Call Director or console, 30 button	- 30
Call Director or console, 40 button	- 40
Radio Station	- RS
Set, basic, includes one button sets and 1A1-61A type coin collectors	- KL
Set, coin collector (except 1A1-61A or equivalent type)	- CC
Set, 4 & 6 button, includes non-key sets using external keys (6040 and 6050 type) and the Card Dialer set - rotary dial and multi-freq Teletypewriter	- KT - TT

### Priority Sequence In Which Basic Work Unit Items Apply

Reconnect (applies to main station if any sta. reconnected)  
 Reinstall (applies to main station if any sta. reinstalled and none was reconnected)  
 New install  
 Inside move  
 Regrade (change grade, type or class - bus., res., PBX or coin)  
 Set substitution  
 Reassociation (defined in list of codes)  
 Temporary suspend or restore service (main sta. or R/C28 trunks)  
 Cord or handset handle change (if no above item applies to same station on same or related order)  
 Number card or designation strip change (each station for which no other item applies on same or related order)  
 Remove external key or signal (if no other work on the order)

## Basic Work Unit Codes To Use On Line K Only Of Order

### Or RES Line on SSO Completion Message

CALL DIRECTOR or console	- 12 button or 6051 key	- 12
	- 18 button	- 18
	- 30 button	- 30
	- 40 button	- 40
Coin collector (except 1A1-61A or equivalent type)		- CC
Cord or handset (handle) change		- CD
External signal or key (pushbutton, lamp, etc. and control relay for customer owned equipment)		- SK
Jack, station		- JK
Inside move (main stations) treated as outside move		- OM
Number card or designation strip change (including: PBX to CENTREX CU stations or vice versa; FXS to local service or vice versa if no regrade)		- NC
Regrade: Change FXS main sta. to local service and regrade, or vice versa		
PBX main stations, and trunks if R/C28, regraded from flat to message or vice versa		- RA
Reassociation: Change pty. line circuit main sta. Change PBX sta. to CENTREX CO main sta. or vice versa		
Change bus. or res. sta. to PBX main sta. or vice versa		
Change PBX or CENTREX ext. to ext. on another line		
Change ext. sta. to main sta. or vice versa		- RA
Restore service temporarily suspended		
Main stations on pty. lines, PBX, CENTREX CU, and order receiving service. Also trunks if R/C28		- RS
Set, Tel. basic (monkey, one-button, and 1A1-61A coin telephone or equivalent type)		- KL
Set, 4- and 6-button (also nonkey set with 6040-6050 type key, and Card Dialer set)		- KT
Teletypewriter set (DATA-PHONE and TWX only)		- TT
Temporary suspension of service (main stations on pty. line, PBX, CENTREX CU, order receiving service, and trunks if R/C28)		- SS

### Codes Approved For Use In Each Line K Field

IN	CL	SU	OR	DISC
JK	CC	CC	CD	SK
SK	KL	KL	JK	TT
OM	KT	KT	NC	
	12	12	RA	
	18	18	RS	
	30	30	SK	
	40	40	SS	

# BELL SYSTEM STANDARD COLOR LINE

	BK. 83	IV. V50	GN. G51	RED R53	YEL. Y56	WH. W58	PK. P59	BG. E60	GR. D61	BL. L62	GOLD 63	TURQ. T64
Panel Phone	-	N	-	N	-	*	-	*	-	-	N	-
Princess	-	N	-	N	-	*	*	*	-	*	N	*
500 Desk (Incls. 1 Button)	*	-	*	-	*	*	*	*	*	*	N	*
500 Wall	*	-	*	-	*	*	*	*	*	*	N	*
500 Key (6 Button)	*	N	*	N	-	*	-	*	*	-	N	-
6040 Key	*	-	*	-	*	*	*	*	*	-	N	-
6050 & 6051 Key	*	-	*	N	-	*	-	*	*	-	N	-
Call Director	-	N	*	N	-	*	-	*	*	-	N	-

Home Interphone Loudspkr. Wall (759A)	*	-	*	-	*	*	*	*	*	*	N	*
Door Ans. (730A Rec)	N	N	N	N	N	*	N	N	*	N	N	N
Farm Interphone Loudspkr. Wall (759B)	*	-	*	-	*	*	*	*	*	-	N	-
Loudspkr. Desk (760A)	*	-	*	-	*	*	*	-	*	-	N	-
Handset Push-to-Talk (G5KR)	*	-	*	-	*	*	-	*	*	-	N	-
3A Speaker Phone Trans. (6668)	*	-	*	N	-	*	-	*	*	-	N	-
Bell Chime	N	*	N	N	N	N	N	N	N	N	*	N
Coin Collectors	*	N	*	N	N	N	N	*	N	N	N	N

- Limited Supply - Verified Available

\* Normally Stocked

N Not Manufactured

■ Panel Phone - Color Suffix indicates Handset. Basic panel provided in copper with beige handset or aluminum with white handset. Any other combinations must be specified in remarks.



### 233, 234, Coin Collector - Prepay Connections

		(BSP 506-319-409)			
I.W. From Protector	Lower Housing	Subset			
		Terminal Block	Network	Ringer Leads	(685B Subset) S-36 Relay Lead
685B Subset Used (506-215-404) 685A Subset Used (506-215-403)	Quad + Triple				
	TR	(R)	R		
	W	(GN)	GN		
	T	(BK)	B		
	R	(Y)	RR		
	Tip (GN)	L (GN)	L2	(R)	
	Ring (R)	Y (R)	L1	(BK)	
	Gnd (Y)	G		K (SL)	
			1	(SL-R)	
			L2 (SL-BR)	C	
			1 (BR-Y)	A	
		3 (Y)	K	(SL)	
			L1	(R)	
			L2	(Y)	
			B	(BK)	

New manufactured sets are wired for 685A Subset. To rearrange for use with 685B Subset, Disconnect yellow strap between "T" Terminal and Coin Relay. Tape ends, turn back for future use.

## 235, 236 Coin Collector Connections

	IW from Protector	Term Blk 1	Ground Punching	Coin Relay	Switchhook
235 (506-321-400)	Tip (GN)	T			
	Ring (R)	R			
	Gnd (Y)		Gnd		
236 (506-110-802)	Tip (GN)				R
	Ring (R)				Y
	Gnd (Y)			G	

## 300 SERIES, TELEPHONE SETS

### LINE AND RINGER CONNECTIONS

	WIRE OR LEAD	Individual or Bridged	Ringer Party	Tip Party			
				No Identifying Gnd.	Message Rate Zone Registration X-Bar with AMA	SXS with AT	SXS with AMA Mod. X-Bar with AMA
302 E, G 5302 G SETS	Mounting Cord In Set	R GN Y	L1 L2Y GND	L2Y L1 GND			
	Ringer Leads	R BK	L1 K	GND K			
304 A, C, 5304 C SETS	Mounting Cord At Connecting Block	R GN Y	R G Y	R G Y			
	Mounting Cord In Set	R GN Y	L1 L2Y GND	RR L1 GND	L1 L2Y GND	L1 L2Y GND	L1 L2Y GND
304 A, C, 5304 C SETS	Ringer Leads	R BK SL SL-R	L1 K GND GND	RR K L2Y L2Y	L1 GND M RR	L1 K M GND	L1 M K GND
	Ringing Capacitor Lead	Y SL	L2Y K	L1 K	L1 K	L2Y K	L2Y K
304 A, C, 5304 C SETS	Switchhook Lead	GN-R	L2Y	RR	RR	L2Y	L2Y
	Mounting Cord At Connecting Block	R GN Y	R G B	R G Y	R G Y	R G Y	R G Y
354 A, C, SETS	Inside Wire In Set	R GN Y	L1 L2 GND	L1 L2 GND	L1 L2 GND	L1 L2 GND	L1 L2 GND
	Ringer Leads	R BK SL SL-R	L1 K E E	K GND E E	K GND M K	K GND RR K	K GND M GND

To Silence Ringer Permanently See Below:

302 E, G 5302 G	Ringer Leads	R B	K K	K K	K K		
		R BK SL SL-R	K K GND GND	K K L2Y L2Y	K K L2Y L2Y	K GND RR	M RR
304 A, C 5304 C	Ringer Leads	R BK SL SL-R	L1 K E E	L1 K E E	L1 K E E	L1 K E E	L1 K E E
		R BK SL SL-R	L1 K E E	L1 K E E	L1 K E E	L1 K E E	L1 K E E
354 A, C	Ringer Leads	R BK SL SL-R	L1 K E E	L1 K E E	L1 K E E	L1 K E E	L1 K E E
		R BK SL SL-R	L1 K E E	L1 K E E	L1 K E E	L1 K E E	L1 K E E

# 500 SERIES TELEPHONE SETS

## LINE AND RINGER CONNECTIONS

WIRE OR LEAD		Individual or Bridged	Ring Party	Tip Party			4 and 8 Party Lines							
				No Identifying Gnd.	1000 Ohms Ident. Gnd.	2650 Ohms Ident. Gnd.	Party Position							
							R-	T-	R+	T+	1 & 5	2 & 6	3 & 7	4 & 8
500 C, D, Sets	Line Wire At Connecting Block	Ring	R	R	R	R	R	R	R	R	R	R	R	R
		Tip	G	G	G	G	G	G	G	G	G	G	G	G
		Gnd	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Mounting Cord At Connecting Block		R	R	R	G	G	R	G	R	G	R	G	R
			G	G	G	R	R	R	G	R	G	R	G	R
			Y	G	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Mounting Cord At Set		R	L2	L2	L2	L2	L2	L2	L2	L2	L2	L2	L2
			G	L1	L1	L1	L1	L1	L1	L1	L1	L1	L1	L1
	Switchhook Lead		Y	G	G	G	G	G	G	G	G	G	G	G
			SL	L2	L2	L2	A	A	L2	L2	L2	L2	L2	L2
554A, B, Sets	Ringer Leads		R	L2	L2	L2	K	B	G	G	L2	L2	L2	
			BK	G	G	G	G	B	G	G	L2	L2	L2	
			SL	K	K	K	B	K	A	A	A	A	A	
		SL-R	A	A	A	B	G	K	K	K	K	K	K	
500 C, D, and 554A, B, Sets	Line Wire In Set		R	L2	L2	L1	L1	L1	L2	L1	L2	L1	L1	
			G	L1	L1	L2	L2	L2	L1	L2	L1	L2	L2	
			Y	G	G	G	G	G	G	G	G	G	G	
	Ringer Leads		R	L2	L2	L2	K	B	G	G	L2	L2	L2	
		BK	L1	G	G	G	B	G	G	L2	L2	L2		
		SL	K	K	K	B	K	A	A	A	A	A		
	SL-R	A	A	A	B	G	K	K	K	K	K	K		
500 C, D, and 554A, B, Sets	Switchhook Lead		S	L2	L2	L2	A	A	L2	L2	L2	L2	L2	
			R	-	-	-	-	-	L1	L1	L2	L2	L2	
			BK	-	-	-	-	-	K	K	K	K	K	
		Y	-	-	-	-	-	L2	L2	G	G	G		
500 C, D, and 554A, B, Sets	Tip Party * Identifying Ground Ringer Leads When Bell Permanently Silenced		R				K	B						
			BK				G	K						
			SL				B	K						
			SL-R				K	G						

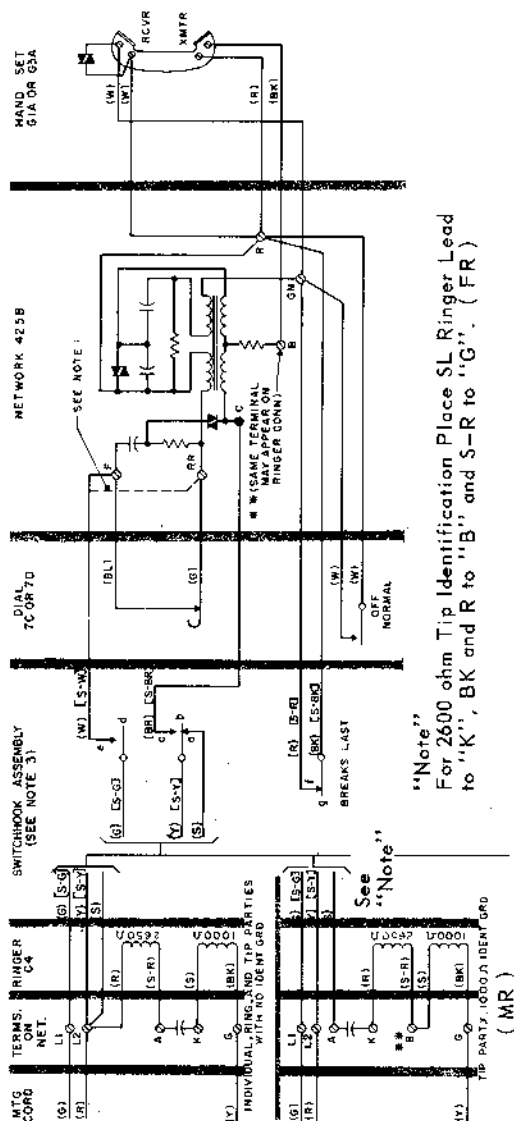
NOTE: To silence bells permanently in 500 C, D TEL Set Tie Red and Yellow conductors of Mounting Cord together in Connecting Block. For 554A, B, TEL Set connect Slate and Black ringer leads to K terminal of 425B Network. See \* for 2 party line tip stations.

NOTE: To silence bells permanently in 500 C, D TEL Set Tie Red and Yellow conductors of Mounting Cord together in Connecting Block. For 554A, B, TEL Set connect Slate and Black ringer leads to K terminal of 425B Network. See \* for 2 party line tip stations.

\*NOTE: Without ANI Office R, may be connected to G, if ringer operation is marginal.

## 500C-D TELEPHONE SET SCHEMATIC

(BSP 502 - 510 - 401)



# 701B TELEPHONE SET CONNECTIONS

(BSP 502-710-400)

## 4-PARTY SELECTIVE AND 8-PARTY SEMISELECTIVE SERVICE

Location	Wire or Lead			Negative Stations		Positive Stations	
				1 and 5	2 and 6	3 and 7	4 and 8
Terminals on EIA Ringer	Line	Ring	R	5	6	5	6
		Tip	G	6	5	6	5
		Grd	Y	2	2	2	2
	Ringer Coil Leads	R	2	2	5	5	
		S-R	1	1	1	1	
		S	7	7	7	7	
	Capacitor Leads	BK	2	2	5	5	
		Y	7	7	7	7	
		W	1	1	1	1	
	Mounting Cord	R	5	5	5	5	
		G	6	6	6	6	
		W	1	1	1	1	
		Y	2	2	2	2	
		BL	4	4	4	4	
2012A or KS-16184 Trans	BK	4	4	4	4		
	G	2	2	2	2		
	R	4	4	4	4		
Terminals in 701B Telephone Set	Mounting Cord	R	L2	L2	L2	L2	
		G	L1	L1	L1	L1	
		W	*	*	*	*	
		Y	3	3	3	3	
		BL	4	4	4	4	
	426A Tube Leads	BK	4	4	4	4	
		BK	*	*	*	*	
		R	L1	L1	L2	L2	
		Y	L2	L2	3	3	

\*Remove W lead from D punching in set and connect to BK tube lead using D-161488 connector.

# 701B TELEPHONE SET CONNECTIONS

(BSP 502-710-400)

WIRE OR LEAD	Individual or Bridged	Ring Party	No Identifying Gnd.	Tip Party		
				Identifying Gnd.		
				Ohms		
				1000	2500	2650
Connections for Telephone set WITHOUT Ringer	Line Wire At Conn. Block	Ring Tip Gnd	R	R	R	R
			G	G	G	G
	Transformer Leads At Conn. Block		Y	Y	Y	Y
			1	Y	Y	Y
	Mounting Cord At Conn. Block		2	B	B	B
			R	R	R	R
			G	G	G	G
			Y	Y	Y	Y
			BL	B	B	B
	Mounting Cord At Set		W	R	R	R
			BK	B	B	B
			R	L2	L2	L2
			G	L1	L1	L1
			Y	3	3	3
	1610A or 1635A Inductor Leads At Set		BL	4	4	4
			W	D	D	D
			BK	4	4	4
			R			
			S			
Line and Ringer Connections WITH EIA Ringer	Line at Ringer	Ring Tip Gnd	R	5	5	5
			G	6	6	6
			Y	2	2	2
	Ringer		R	7	7	7
			S-R	1	1	1
			BK	6	2	2
	Capacitor in Ringer		S	1	1	1
			W	7	7	7
			Y	5	5	5
	Transformer Leads at Ringer		1	2	2	2
			2	4	4	4
			R	5	5	5
	Mounting Cord At Ringer		G	6	6	6
			Y	2	2	2
			BL	4	4	4
			W	3	3	3
			BK	4	4	4
	Mounting Cord At Set*		R	L2	L2	L2
			G	L1	L1	L1
			Y	3	3	3
			BL	4	4	4
			W	D	D	D
			BK	4	4	4

\*Wired at Factory for Individual or Bridged, Ring - and Tip Party Service

# 701B TELEPHONE SET CONNECTIONS

WIRE OR LEAD			Individual or Bridged	Ring Party	Tip Party		
					No Identifying Gnd.	Identifying Gnd. Ohms	
						1000	2650
LINE AND RINGER CONNECTIONS WITH FIA RINGER SET TERM.	Line	Ring	R	6	6	1	1
		Tip	G	4	1	6	5
		Gnd	Y	1	4	4	4
	Ringer Coil		R	7	7	7	2
			S-R	2	2	2	4
			BK	4	4	4	2
			S	2	2	2	7
	Network Straps	G	BL	4	4	4	4
		A	R	7	7	7	7
		B	G	6	6	6	6
	Dial Light Trans.		1	1	4	4	4
			2	3	3	3	3
	Mounting Cord		R	6	6	1	5
			G	4	1	6	1
			Y	1	4	4	4
			BL	3	3	2	2
			W	5	5	6	6
			BK	3	3	3	3
	Mounting Cord*		R	L2	L2	L2	L2
			G	L1	L1	L1	L1
			Y	3	3	3	3
			BL	4	4	8	B
			W	D	D	D	D
			BK	4	4	4	4

## FIA RINGER CONNECTIONS (501-252-100) WHEN USED AS EXTENSION RINGER

Inside Wire	Ring	R	6	6	1	-	-
	Tip	G	4	1	6	-	-
	GRD	Y	-	4	4	-	-
Ringer		R	7	7	7	-	-
		S-R	2	2	2	-	-
		S	2	2	2	-	-
		BK	4	4	4	-	-
Network Straps	G	BL	4	4**	4**	-	-
	A	R	7	7	7	-	-
	B	G	6	6	6	-	-

\* Wired at Factory for individual or bridged, ring- and tip-party service.

The FIA ringer is not intended to be used with 4-party selective or 8-party semiselective service, or any other service where code ringing would not be distinguishable in CHIME position. For schematic drawing and maintenance information on FIA ringer, see Section entitled FIA Ringer.

\*\*Place BL strap on (1) whenever high ground induction is encountered.

# 702B TELEPHONE SET CONNECTIONS

(502-710-403)

WIRE OR LEAD		Individual or Bridged	Ring Party	Tip Party			
				No Identifying Gnd.	Ident. Gnd. 1000 Ohms	Ident. Gnd. 2650 Ohms	
Line Wires At Connecting Block	Ring Tip Gnd	R	R	R	R	R	R
		G	G	G	G	G	G
Transformer At Conn Blk	Ring Tip Gnd	Y	Y	Y	Y	Y	Y
		Y	Y	Y	Y	Y	Y
Mounting Cord At Connecting Block	Ring Tip Gnd	1	Y	Y	Y	Y	Y
		2	B	B	B	B	B
		R	R	R	G	G	G
		G	G	G	R	R	R
Mounting Cord At Set	Ring Tip Gnd	Y	Y	Y	Y	Y	Y
		W	3	3	3	3	3
		BK	4	4	4	4	4
		R	L2	L2	L2	L2	L2
Ringer Connections	Ring Tip Gnd	G	L1	L1	L1	L1	L1
		Y	G	G	G	G	G
		W	3	3	3	3	3
		BK	4	4	4	4	4
426A Tube	Ring Tip Gnd	R	K	K	K	K	K
		BK	G	G	G	G	G
		S*	-	-	-	-	-
		S-R*	-	-	-	-	B

\* For tip party identifying ground, remove BK or S-BK lead from A of network, insulate and store.

Sets are factory wired for bridged or ring party.

## 702B TELEPHONE SET

### CONNECTIONS FOR 4 PARTY FULL SELECTIVE RINGING

(BSP 502-710-403)

WIRE OR LEAD		Negative Stations		Positive Stations	
		Ring	Tip	Ring	Tip
Mounting Cord In Set	R	L2	L2	L2	L2
	G	L1	L1	L1	L1
	Y	G	G	G	G
	W	3	3	3	3
	BK	4	4	4	4
Mounting Cord at Connecting Block	R	R	G	R	G
	G	G	R	G	R
	Y	Y	Y	Y	Y
	W	Y	Y	Y	Y
	BK	B	B	B	B
426A Tube	R	G	G	L2	L2
	Y	L2	L2	G	G
	BK	Note 1	Note 1	Note 1	Note 1
Ringer Leads	R	G	G	L2	L2
	BK	A	A	A	A
	S	-	-	-	-
	S-R	Note 1	Note 1	Note 1	Note 1
Network Strap (Note 2)	K	G	G	L2	L2

NOTE 1: Connect BK tube lead to S-R ringer lead using a D161488 connector.

NOTE 2: Workman places this strap.

NOTE 3: For negative and positive parties, insulate and store BK or S-BK from A of network. If not done, line will be grounded.

## TELEPHONE SETS PANEL PHONE - 750A- AND 750B-TYPES

### CONNECTIONS (B.S.P. 502-750-400)

TABLE A  
LINE AND RINGER CONNECTIONS

WIRE OR LEAD		Individual is Bridged	Ring Party	Tip Party	Tip Party with Ident Grd			
					Normal Connections Ohms		Ringer Reversal (See Note) Ohms	
					1000	2650	1000	2650
Line at Terminal Strip	Ring Tip Grd	R Y	2 3†	2 3	1 3	1 3	1 3	1 3
Ringer Lead At Terminal Board Assembly	R BK S S-R	R BK K* S-R	R BK K* S-R	R BK K* S-R	R BK B* S-R	R BK K* S-R	S-R BK BK R	S-R BK B* R
Terminal Board Strap At 283B Plug	R BK S-R	R GN A*	R Y A*	R Y A*	K* Y B*	B* Y B*	K* Y B*	B* K* Y
Switchhook Lead	S	R	R	R	A*	A*	A*	A*

\*Terminal on network

†Ground may be omitted if not required for service.

NOTE 1: Use normal connections for tip party identification ground station. If bell taps on station connected to long-line equipment, reverse ringer leads as shown in this column to retain proper tip party identification.

NOTE 2: Set is shop wired for individual or bridged service.

TABLE B  
RINGER LEAD CONNECTIONS TO SILENCE RINGER PERMANENTLY

Connect black ringer lead to same terminal as red ringer lead for all classes of service except those listed below:

Tip Party Ident Grd	Ringer Lead			
Ohms	Red	Blk	State	S-R
1000	R	BK	B	R
2650*	R	BK	K	S-R

\*Move black ringer strap from B of network to K of network.

CONNECTIONS  
(B.S.P. 502-750-401)

TABLE A  
LINE CONNECTIONS

CIRCUIT	LEAD DESIG.	TB2 TERM.
1st CO Line	Tip Ring	2 1
2nd CO Line or Home Interphone Line	Tip Ring	5 4
Ground	Gnd	11
*Excluded Station	ET ER	10 9
Home Interphone Leads to 51A Control Unit	SW P4 P3 S2 DC S1 M1 M2	6 12 11 3 7 8 9 10
†Dial Light Transformer	Gnd +	11 12

\*Not available when set is used on 1A Home Interphone.

†Available on future models.

TABLE B  
RINGER CONNECTIONS

LEAD	INDIVIDUAL OR BRIDGED See Note 1		RING PARTY See Note 1		TIP PARTY - NO ID. GND See Note 1		Tip Party with Identification Ground			
							NORMAL CONNECTION See Note 2		RINGER COIL REVERSAL See Note 2	
Ringer Lead or Strap	Term. Bd. Term.	Ntwk. Term.	Term. Bd. Term.	Ntwk. Term.	Term. Bd. Term.	Ntwk. Term.	TERM. ON TERM. BD. OHMS	TERMINAL ON Ntwk. OHMS	TERM. ON TERM. BD. OHMS	TERMINAL ON Ntwk. OHMS
							1000 2650	1000 2650	000 2650	1000 2650
R →	1		1		2		SR E2		E2 11	
SR →	SR		SR		SR		E2 11		E2 E2	
S →		K		K		K	E2 SR		11 E2	
BK →	2		11		11		11 E2		E2 SR	
Slate Swk. Lead	2 E2		E2		E2			K K		K K
Slate Yellow Swk. Lead	7		7		7		2 2		2 2	
Black Strap	E2 ↓ E2		E2 ↓ E2		E2 ↓ E2		E2 → B		E2 → B	
							E2 → B		E2 → B	

NOTE 1: To silence ringer permanently for all classes of service: (1) Connect ringer leads in normal manner for class of service involved. (2) Move spade tip of slate red lead from network Terminal A to SR terminal on terminal board.

NOTE 2: Do not wire this set for tip party identification when used as a station on 1A Home Interphone System.

Common G095 Requirements

MINIMUM SERVICE DROP CLEARANCES

SERVICE DROPS: Drop wire or cable extending from a line pole or span clamp to a building or structure, or between buildings.

BSP 620-200-900 PT

	Por. No.
Over residential area - pedestrian only *	10' 6
Over residential driveways	12' 6
Over industrial or commercial area - pedestrian only	12' 6
Over industrial or commercial driveways	16' 6
At curb line or outer limits of vehicle travel	16' 6
At center of road to 12' from curb line	18' 6
<b>FROM POWER</b>	
At first building attachment to 15' out	1' 9
Beyond 15' out from first building attachment	2' 9
When attached to surface of pole	5' 10
When attached to guard arm or crossarm	4' 10
Street Light Fixture	1' 10

MINIMUM DROP CABLE CLEARANCES

DROP CABLES: Drop wire placed between line poles or from a line pole to a span clamp.

Over residential, commercial, industrial or agriculture driveways	18' 6
Over highways, streets, roads or alleys	18' 6
Over areas accessible to pedestrians only	8' 6

FROM POWER

Unguarded	6' 10
Guarded or on crossarm	4' 10
From Street Light Fixture	1' 10

\*We must get 10' ground clearance where pedestrians can walk. If we cannot get 10' without installing a special structure on the building, the clearance must be as great as possible - in no case less than 8 feet 6 inches. This clearance must be 12' on commercial premises.

NOTE: Climbing space of 30" shall always be maintained on pole and shall be located on opposite side of pole from cable.

Don't Guess! Use Your Measuring Stick!

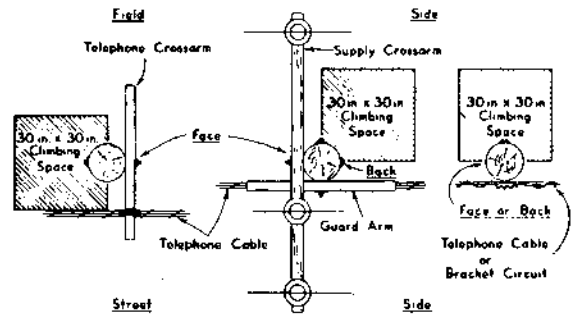
## INSTALLING DRIVE HOOKS

(Sect. 462-300-200)

(For detail on following see appropriate BSP section.)

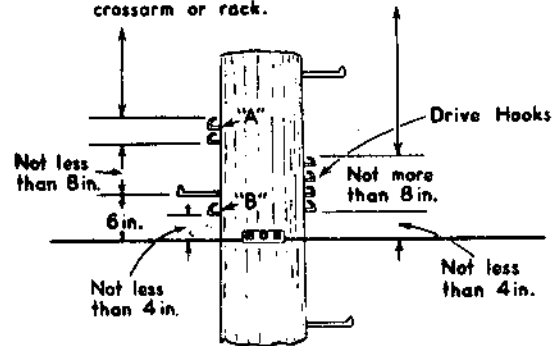
The four sides of a pole are called Face, Back, Field and Street sides.

EXAMPLE:



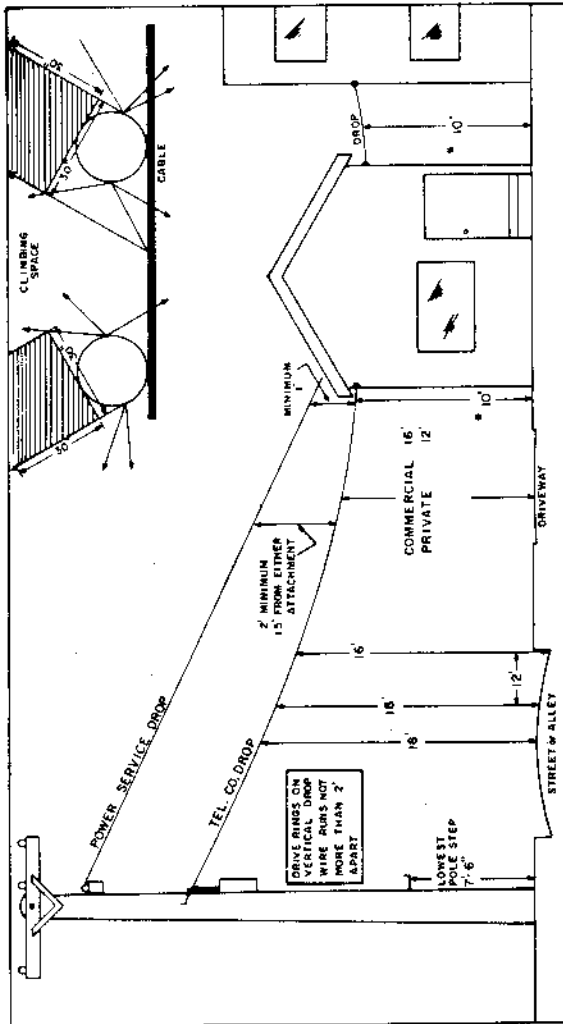
Place all drive hooks for Service Drops in a 1" x 8" space on face or back of pole.  
EXAMPLE:

Not less than 60 inches from the bottom of the lowest power company crossarm or rack.



NOTE: Drive hooks may be placed at either "A" or "B", but not both.

Stagger Drive Hooks approx. 1 inch to avoid splitting pole.



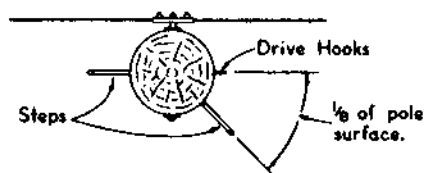


## INSTALLING DRIVE HOOKS (Cont'd)

When conditions prevent placing drive hooks with the necessary pole step clearances, distribute the drop wires from hooks below the strand to span clamps. When it is undesirable to place span clamps, offset the pole step above the strand  $1/8$  of the pole surface toward the climbing space. This will provide enough clearance for the drive hooks.

DO NOT OFFSET THE DRIVE HOOKS.

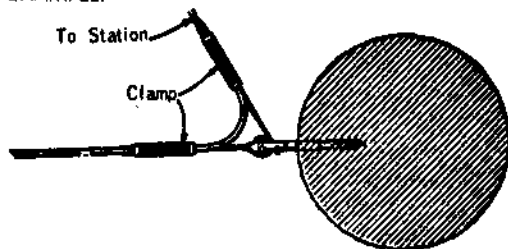
EXAMPLE:



## CAPACITY OF DRIVE HOOKS (462-300-200)

Consider as one span a drop wire that runs directly from a drive hook on a terminal pole to a span clamp, building or adjacent pole. Consider as two spans a drop wire that runs to a drive hook and then away from that hook in the same or different direction. The following sketch is an example of two spans from a clearance pole with no messenger.

EXAMPLE:



NOTE: One span of Multiple Drop Wire shall be considered as three spans of drop wire when attached to drive hooks or guard arm hooks.

## CAPACITY OF DRIVE HOOKS (Cont'd)

### MAXIMUM ALLOWABLE NUMBER OF SPANS (NOT WIRES) FROM A SINGLE DRIVE HOOK INSTALLED IN FACE OR BACK OF POLE

DIRECTIONS OF SPANS	Paralleling Pole Line	Crossing Public Thoroughfare	Not Crossing Public Thoroughfare	Total Allowable
MAXIMUM NUMBER OF SPANS	-	3	4	7
	3	-	-	3

A maximum of four drop wires from span clamps may be attached to a drive hook installed in the cable side of a pole.

## CAPACITY OF OTHER ATTACHMENTS

### CAPACITY OF GUARD ARM HOOK (Sect. 462-300-200)

Five spans maximum to a guard arm hook. Multiple Drop Wire shall be considered as three drop wires.

### CAPACITY OF SPAN CLAMP (Sect. 462-300-205)

Two drops maximum on a span clamp. One multiple drop maximum on a span clamp.

### DROP AND BLOCK WIRING SECTION

Description	462-030
Splicing	462-200
From Open Wire	462-240
Wiring at Terminals	462-260
Pole Strand & Tree Attachments	462-300
Bldg. Attachments	462-350
Runs on Buildings	462-350
Placing	462-400
Mechanical Protection	462-450
Special Applications	462-460
Disconnection & Removal	462-470
Multiple Drop Wire	462-500
Maintenance	462-800

# PROTECTOR GROUND

(BSP 638-210-100)

- FIRST CHOICE!** Public water system (metallic pipe).
  - Connect to cold water pipe that is in service and has ten feet or more of its surfaced buried.
  - Check that there are no insulating joints.
- If public water system is not available, refer to BSP 638-210-100 for alternate.
- Never use power ground rod (except to bond to).
- Clean pipes thoroughly.
- Install ground clamp at point where insulating joint (if found in water system) will not break continuity to Ground.
- Fasten ground clamp securely.
- Place ground wire under washer and tighten locknut firmly.
  - Do not spiral water pipe.
- PLACE** ground wire **CAUTION TAG** at ground clamp. Form E3013.
- Space ground wire attachments properly - 16" where possibility of being disturbed - 24" otherwise.
- Never place protector ground wire in ring runs.

## GROUND-WIRE CAPACITY

Size	Protectors		
	Fused	or	Fuseless
No. 14	1 to 3		1
No. 12	4 to 6		2
No. 10	7 or more		3 to 6
No. 6	any number		any number

## COLOR CODE EVEN P.C. CABLE (Section 632-033-152)

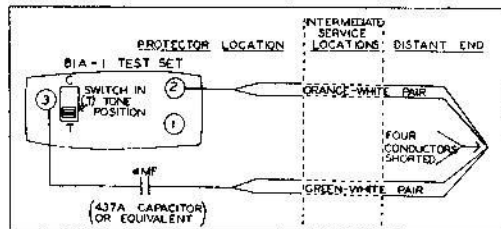
Pair No.	Ring	Tip	Binder Group No.	Pairs	Binder Colors
1	BL	W	1	1-25	BL-W
2	O	W	2	26-50	O-W
3	G	W	3	51-75	G-W
4	BR	W	4	76-100	BR-W
5	S	W	5	101-125	S-W
6	BL	R	6	126-150	BL-R
7	O	R	7	151-175	O-R
8	G	R	8	176-200	G-R
9	BR	R	9	201-225	BR-R
10	S	R	10	226-250	S-R
11	BL	BK	11	251-275	BL-BK
12	O	BK	12	276-300	O-BK
13	G	BK	13	301-325	G-BK
14	BR	BK	14	326-350	BR-BK
15	S	BK	15	351-375	S-BK
16	BL	Y	16	376-400	BL-Y
17	O	Y	17	401-425	O-Y
18	G	Y	18	426-450	G-Y
19	BR	Y	19	451-475	BR-Y
20	S	Y	20	476-500	S-Y
21	BL	V	21	501-525	BL-V
22	O	V	22	526-550	O-V
23	G	V	23	551-575	G-V
24	BR	V	24	576-600	BR-V
25	S	V	25	601-625	BL-W-R
ABBREVIATIONS			26	626-650	O-W-R
			27	651-675	G-W-R
			28	676-700	BR-W-R
			29	701-725	S-W-R
			30	726-750	BL-R-R
			31	751-775	O-R-R
			32	776-800	G-R-R
			33	801-825	BR-R-R
			34	826-850	S-R-R
			35	851-875	BL-BK-R
			36	876-900	O-BK-R

# PREWIRING

## ESTABLISHING SERVICE

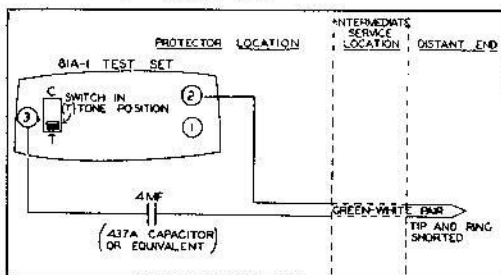
Section 461-310-911PT

### LOCATING CONCEALED LOOPS - METALLIC TONE METHOD



#### METHOD 1 - CONNECTIONS FOR INTRODUCING TONE -

- Where both ends of inside wiring cable are accessible, or
- Where the four conductors of the orange-white and green-white pairs have been shorted.



#### METHOD 2 - CONNECTIONS FOR INTRODUCING TONE -

- Where only one end of inside wiring cable is accessible, and
- Where only the green-white pair has been shorted.

### LOCATING CONCEALED LOOPS GROUNDED TONE METHOD

This method may be used when the distant end of the inside wiring cable is not accessible and the cable pairs have not been shorted.

Grounded tone should not be used if it is possible to tone metallic.

- Remove the insulation on all spare pairs at protector location.
- Twist the conductors together and connect to terminal 1 of BIA-1 test set.
- Connect Terminal 2 of BIA-1 test set to ground.
- Operate switch to "T" position on BIA-1 test set.
- Locate concealed loops with tone locator.

## FLICKER SET TESTS (BSP 105-270-100)

TEST	BANANA PLUGS	SWITCH	TEST CLIPS	STEADY LIGHT	FLASHING LIGHT	NO LIGHT
SHORTS	A & T	OFF	T & R	SHORT		NO
CROSSES (BATT)	T & R	OFF	BK IN T TO GRD RED IN R TO LUGS 1 CLIP TO GRD OTHER TO LUGS 1 CLIP TO GRD OTHER TO LUGS	BATT. X		SHORT NO X
GROUPS	A & T	OFF				NO
FLOATERS T & R	C & D	ON		GROUND		GROUND
FLOATER BRIDGED	C & D	ON			FLOATER ON T OR R BRIDGED FLOATER	

## TEST NUMBERS

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins or other markings on the paper.

## TEST NUMBERS

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There is no text or other markings on the paper.

## TELEPHONE SET REPORTING CHECK LIST

Telephone sets are valuable. Accurate reporting by you is essential for proper accounting. Good Book-keeping begins with you.

Remember on reconnects, disconnects, L.I. removals, etc., Always:

1. Report all telephones reconnected, removed or left-in.
2. Report promptly to the L.I. desk all Left-in station removals found working, removed or missing.
3. Verify the telephone number on the detail holder for the correct telephone number when reconnecting L.I.s or disconnects.
4. Check all buildings, cottages, work shops and garages on the premises when telephone sets are missing.
5. Double check the remarks space on the work order for access information.

- 28C-R** - (RESIDENCE) Inward station work  
When You - New install, reinstall, reconnect, add Ext. add Bell Chime, signal bells, keys, jacks, etc., or L.T., PST, (when associated with a service order).
- 28C-B** - (BUSINESS) Inward station work  
When You - Same as residence including small PBX's private line telephones and all other work not covered by R or C.
- 28C-C** - (COIN) Inward station work  
When You - Same as residence or business includes non-coin ext., and booths.
- 28M** - PLANT CHANGE  
When You - Change type of tel set, change lctn, regrade, change cord, number card changes only, re-route wiring, LT or PST (not associated with service order).
- 28X** - DISCONNECT OR REMOVAL  
When You - Disconnect station left in, working station removal, remove left in station.
- 28R** - REPAIR  
When You - Spend time to repair, replace, relocate (due to trouble) clearing trouble, preventive mtce. on station service.
- 2R** - CABLE TROUBLE  
When You - Spend time testing for locating and clearing trouble in aerial cable plant. Transferring drop wire and aerial wires from one cable pair to another in the same terminal to restore service to lines or circuits affected by such trouble.

## SERVICE ORDER COMPLETION PROCEDURES

Field forces are responsible for PROMPT and AC-CURATE completion of service orders and transfers requiring field work.

A completed service order MUST reflect ALL work done, service, provided and equipment reconnected, placed or removed. This is extremely important to insure AC-CURATE customer billing and CORRECT Company records.

Field forces must be sure all required field circuit and instrument tests are made before calling the PSC to complete a service order.

### Completing Service Order

#### A. To complete a service order the field workman will:

1. Call the service order desk. This call should be made from the customer's premises.
2. Give his name
3. State his file number
4. Give order number involved
5. Tell reason for call such as:
  - a. To complete a service order
  - b. Change due date
  - c. Report no access
  - d. To test a service order or transfer

#### B. When the order desk clerk says she is ready, report:

1. Telephone or circuit number, read from number plate
2. Name and address
3. Corrections. If none involved, state "No Corrections" and proceed to B-4. If there are corrections, starting at the top of the order, report:
  - a. Change in total stations for business service.
  - b. Due date changes (original and subsequent dates and codes).
  - c. If plant color sale is involved, verify color credit with commercial.
  - d. If customers state they had color credit in connection with a plant color sale, tell the order desk clerk about this so she can verify it with commercial.
  - e. Verification of IOP information with any changes needed to reflect actual conditions found. Do not delete IOP unless customer agrees.

- f. Telephone number change.
- g. Number of installments for such billing if involved on plant sale.
- h. Change of address (include suite or room number changes).
- i. Equipment - additions, changes, deletions, of USOC(s) involved.
- j. Plant sales code for added items sold.
- k. Remarks entries such as installment billing arrangements but not below minimum shown under "Budget Terms" in this Service Guide.
- l. Billing change - only when authorized by Commercial or Marketing.

#### 4. Line I information including:

- a. Type of plant sale.
- b. Number of plant color sales
- c. Other plant sales credit, if involved
- d. Number of stations left-in
- e. Number of working stations removed
- f. Number of left-in stations removed

#### 5. Line J information including:

- a. Completion date (for WATS service always report AM or PM as applicable).
- b. Employees code
- c. Number of new installs
- d. Number of reinstalls
- e. Number of reinstall changes for other than company reasons
- f. Number of reconnects
- g. Number of reconnect changes for other than Company reasons
- h. Number of new drops
- i. Number of reused drops

#### 6. Line K information including:

- a. Added equipment installed - jacks, external keys, or signals or "in moves" treated as "out moves" for these report number of main stations involved.
- b. Added change of location of stations
- c. Added substitutions of station sets-report type involved.
- d. Added rearrangements, changes and substitutions involving cords, handset handle, external signals and keys, and number cards. Includes reassociations, regrades and suspension and restoral of service.
- e. Disconnection of external keys, signals or tele-typewriters.

## Order Corrections

**(Reserved For Area Paste-In Pages)**

C. Simple business and residence service - call all corrections to the service order desk in the PSC.

D. Complex services:

1. Call corrections, as they occur, to the order originator or marketing correction desk (includes changes in station designations).
2. Reach agreement on how order is to be corrected-longhand or replacement.
3. Change field copy of order and related work sheet, if involved.
4. Commercial or Marketing will call corrections to PSC.

To insure accuracy, eliminate errors and to improve service order completion performance, the foregoing procedures MUST be closely followed.

**NO JOB IS SO IMPORTANT  
AND NO SERVICE IS SO URGENT-  
THAT WE CANNOT TAKE TIME  
TO PERFORM OUR WORK SAFELY.**

**BELL SYSTEM**