

Thank you for purchasing the Panasonic Model KX-T616, Electronic Modular Switching System.

LIMITED WARRANTY

Panasonic Company, PHI or PSC will repair this product with new or rebuilt parts, free of charge, in the U.S.A. or Puerto Rico for one (1) year from the date of original purchase in the event of a defect in materials or workmanship.

Batteries (if included)—New rechargeable batteries in exchange for defective rechargeable batteries for ten (10) days from the date of original purchase. Non-rechargeable batteries are not warranted.

Carry-in or mail-in service in the continental U.S.A. can be obtained during the warranty period from a Matsushita Services Company (MSC) Factory Servicenter listed in the Servicenter Directory below. Or call 1-800-447-4700, toll free, to locate an authorized MSC Servicenter. Carry-in or mail-in service in Puerto Rico or Hawaii can be obtained during the warranty period by calling the telephone numbers listed in the Servicenter Directory below.

To locate an Authorized Servicenter in Your Area within the Continental U.S.A.

DIAL TOLL FREE: 1-800-447-4700
24 Hours a Day, 7 Days a Week

Requests for assistance in obtaining repairs or technical information... contact any one of the following Service Administration offices:

EASTERN 45 Hartz Way Secaucus, NJ 07094 201-348-7460	MIDWEST 425 East Algonquin Road Arlington Heights, IL 60005 312-981-4842	WESTERN 6550 Katella Avenue Cypress, CA 90630 714-895-7438	SOUTHERN 1854 Shackle-Ford Court, Suite 105 Norcross, GA 30093 404-925-6860
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Correspondence requesting product information should be sent to:
Panasonic Consumer Affairs, Panasonic Company, Division of Matsushita Electric Corporation of America
1 Panasonic Way, Secaucus, NJ 07094.

Service in Puerto Rico MATSUSHITA ELECTRIC OF PUERTO RICO, INC. Panasonic Sales Company Factory Servicenter Calle Rosarito, Edif D Ceramica Industrial Park Carolina, Puerto Rico 00630 809-750-5135	Service in Hawaii PANASONIC HAWAII, INC. 91-238 Kauhī Street, Ewa Beach P.O. Box 774 Honolulu, Hawaii 96808-0774 808-682-1521
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Service in the Continental U.S.A. ...
Factory Servicenters
1575 NORTHSIDE DRIVE
SUITE 325
ATLANTA, GA 30318
(404) 351-8978

MATSUSHITA SERVICES COMPANY
Division of Matsushita Electric Corporation of America
50 Meadowland Parkway, Secaucus, New Jersey 07094

Handwritten notes:
1-800-447-4700
1-800-922-0028
312-981-4842
392-7687
1-800-447-4700

This warranty is extended only to the original purchaser. A purchase receipt or other proof of date of original purchase will be required before warranty performance is rendered.

This warranty only covers failures due to defects in materials or workmanship which occur during normal use. It does not cover damage which occurs in shipment or failures which are caused by products not supplied by Panasonic Company, PHI or PSC or failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, modification, or service by anyone other than a MSC Factory Servicenter or authorized MSC Servicenter or damage that is attributable to acts of God.

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above.

PANASONIC COMPANY, PHI AND PSC SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

If a problem with this product develops during the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Consumer Affairs Division at the company address indicated on the back cover.

NOTIFY THE TELEPHONE COMPANY

When you are required from the telephone company, notify the following:

- Telephone number to which the system will be connected
- Make **Panasonic**
- Model **KX-T616**
- FCC Registration No. **ACJ96N-15172-MF-E**
- Ringer Equivalence **0.4B**

- The Jack Code needed will depend upon the requirements of the telephone system to which the system will be connected.
The specific jack code needed can and should be ascertained by the telephone company at the time of installation.
- Present FCC Regulations prohibit connecting this unit to a party line, or to a coin operated telephone.

Please read the section on "Telephone Company and FCC Requirements and Responsibilities" on page 84.

The serial number of this product may be found on the label affixed to the bottom of the unit. You should note the serial number of this unit in the space provided and retain this book as a permanent record of your purchase to aid in identification in the event of theft.

MODEL NO.: KX-T616 _____

SERIAL NO.: _____

For your future reference

DATE OF PURCHASE _____

NAME OF DEALER _____

DEALER'S ADDRESS _____

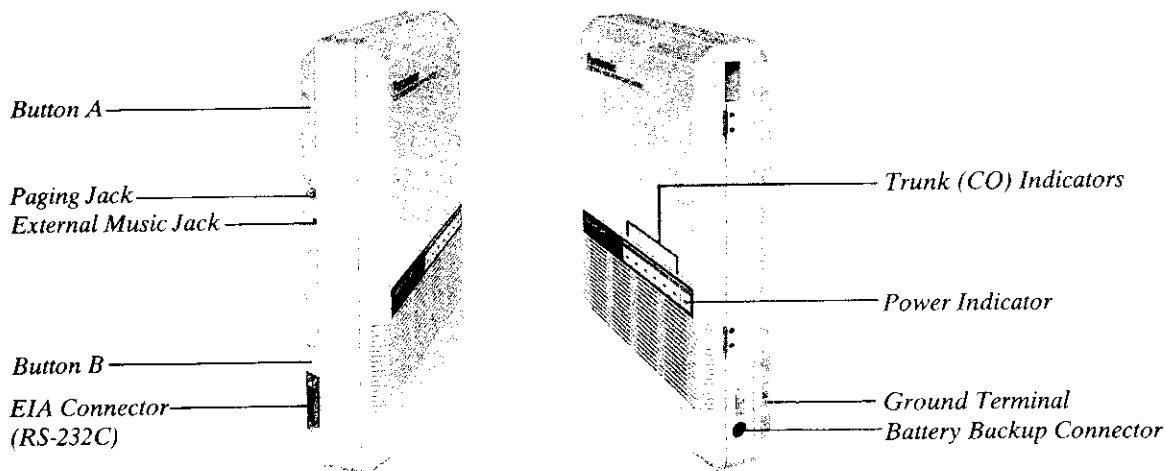
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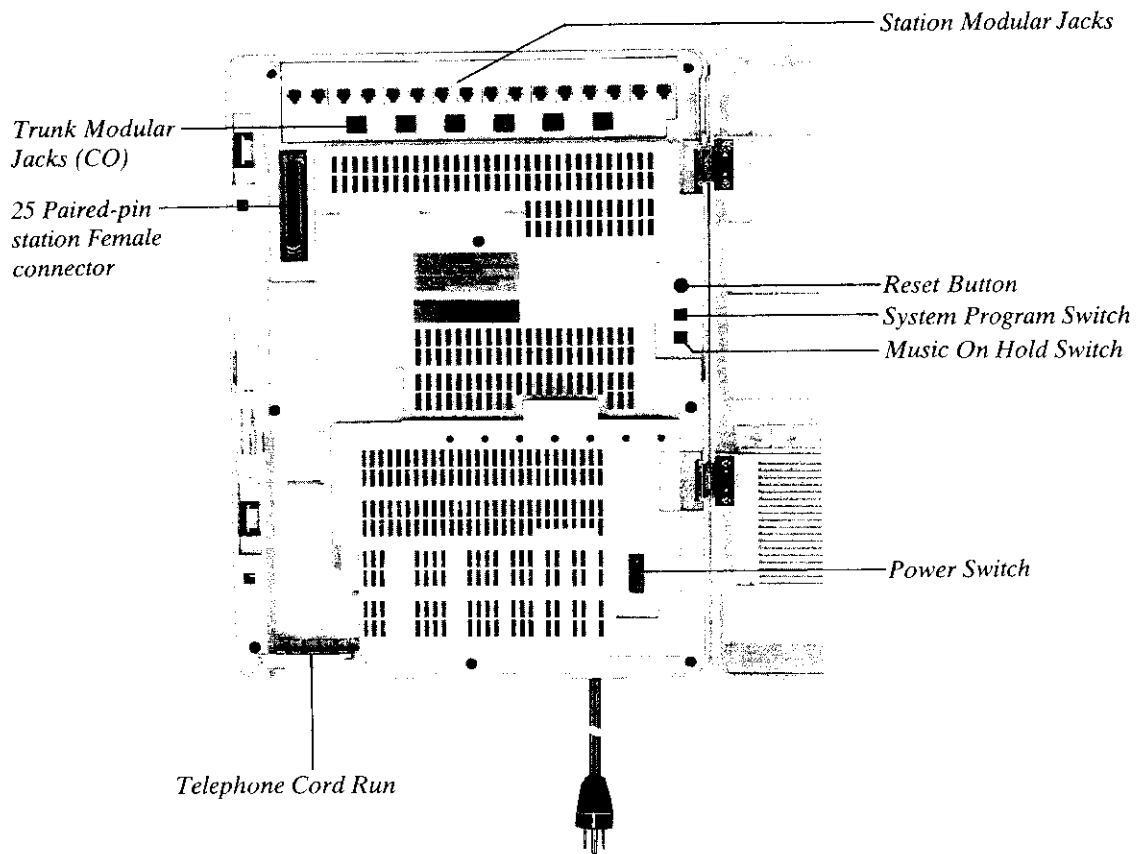
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NAME AND LOCATION



Push Buttons A and B simultaneously to open Front Cover.

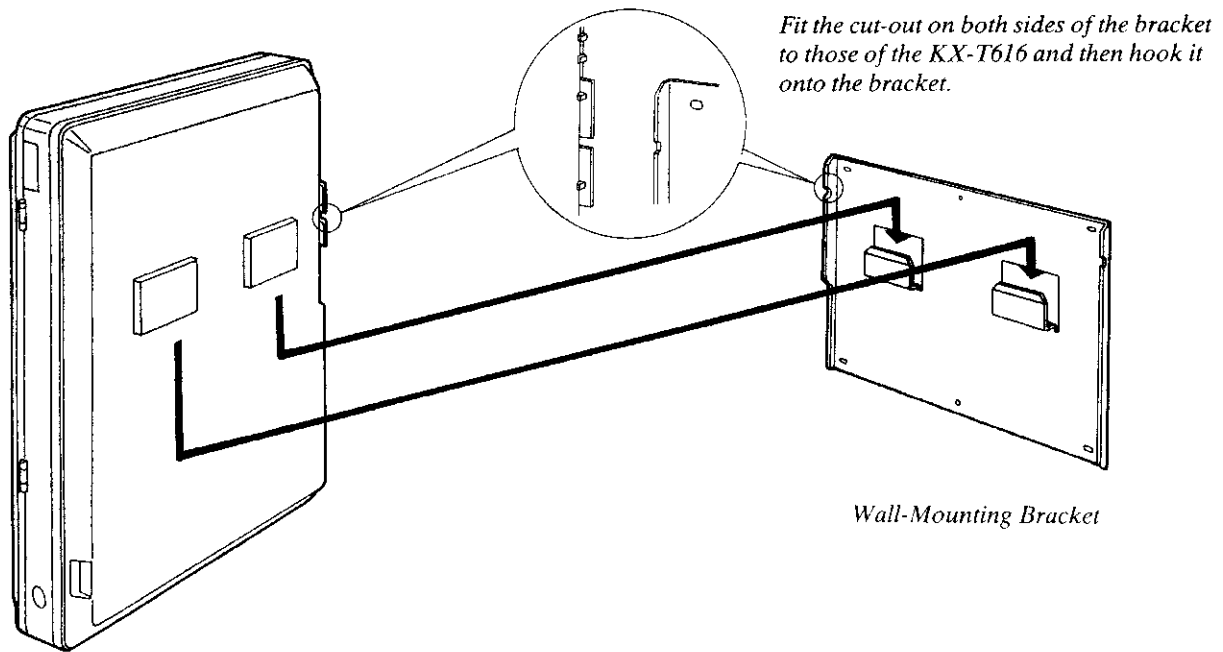
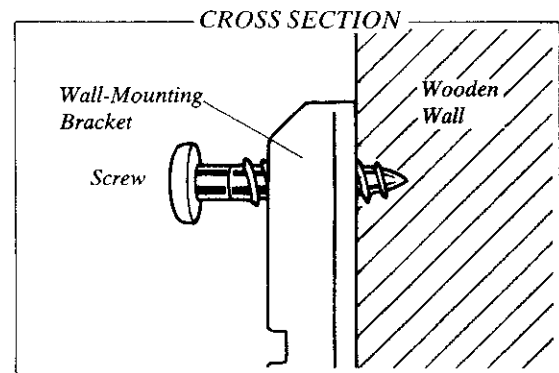
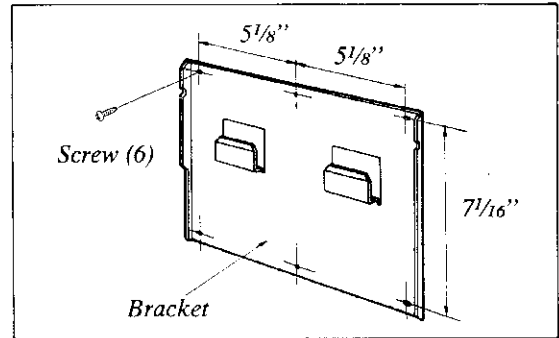


INSTALLATION

The wall where the KX-T616 is to be mounted must be able to support a weight of 77 pounds. If screws other than the ones supplied are used, use the same-sized screws with the enclosed ones.

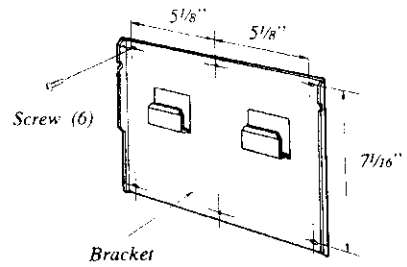
To Mount on the Wooden Wall:

1. Mark 6 screw positions.
(For easy mounting, drill a small hole)
2. Position the Wall-Mounting Bracket and screw to the wall.
3. Hook the KX-T616 onto the Wall-Mounting Bracket.

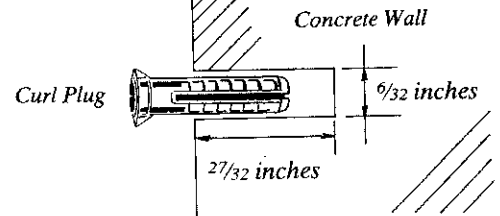


To Mount on the Concrete or Mortar Wall:

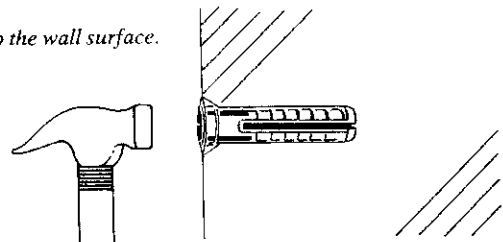
1. Mark 6 screw positions.
2. Drill a hole of $\frac{9}{32}$ inches in diameter and $\frac{27}{32}$ inches in depth at the marked position.
 - When diameter is larger than the designated size, the curl plug will not be fixed to the wall.
3. Fill in the drilled hole on the wall with the curl plugs provided.
4. Drive the curl plug in.
5. Position the Wall-Mounting Bracket and screw to the wall.
6. Hook the KX-T616 onto the Wall-Mounting Bracket.



CROSS SECTION

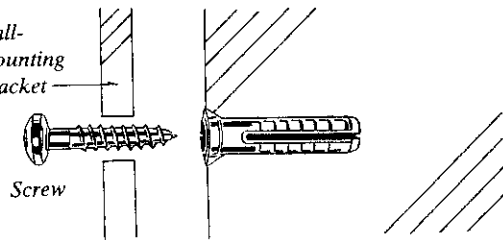


To the wall surface.

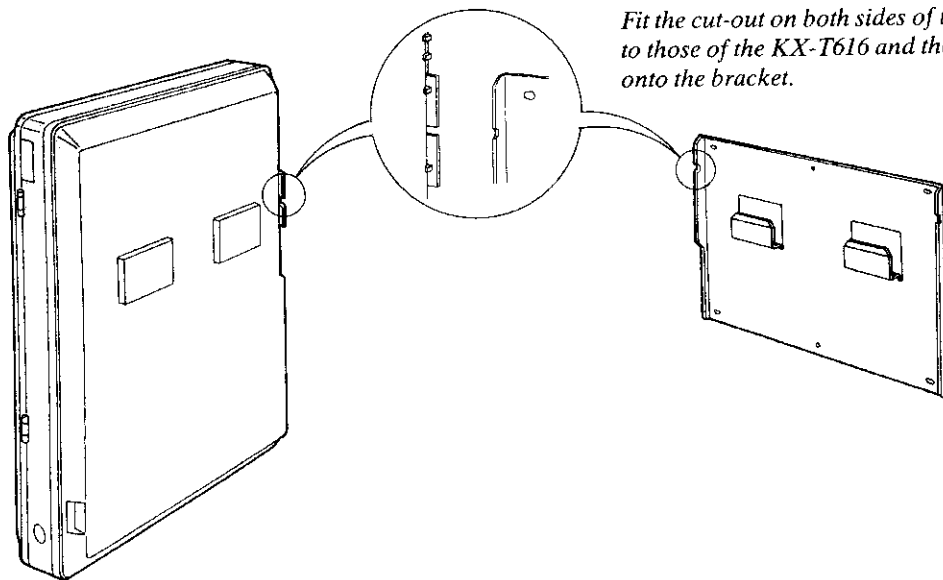


Wall-Mounting Bracket

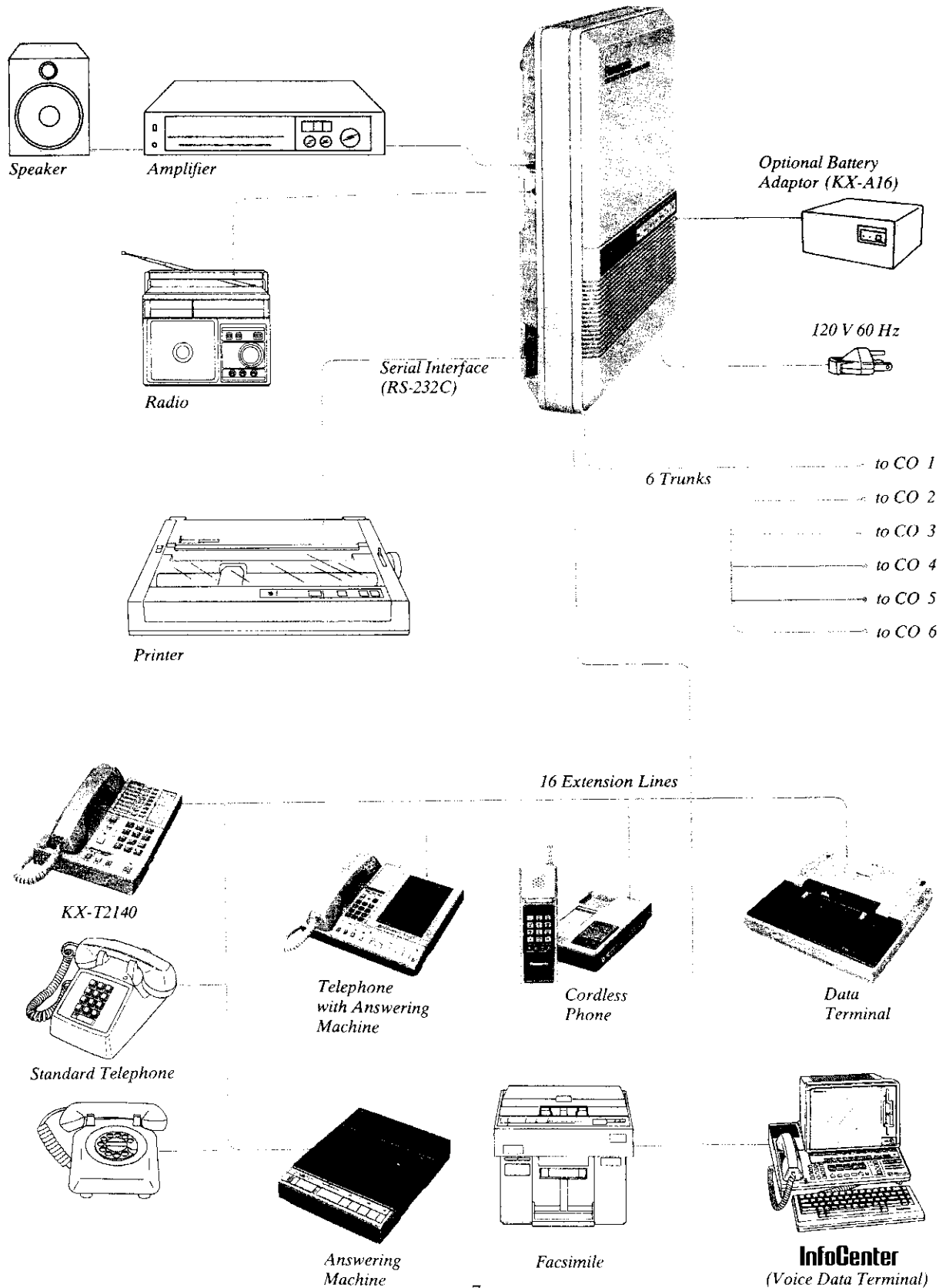
Screw



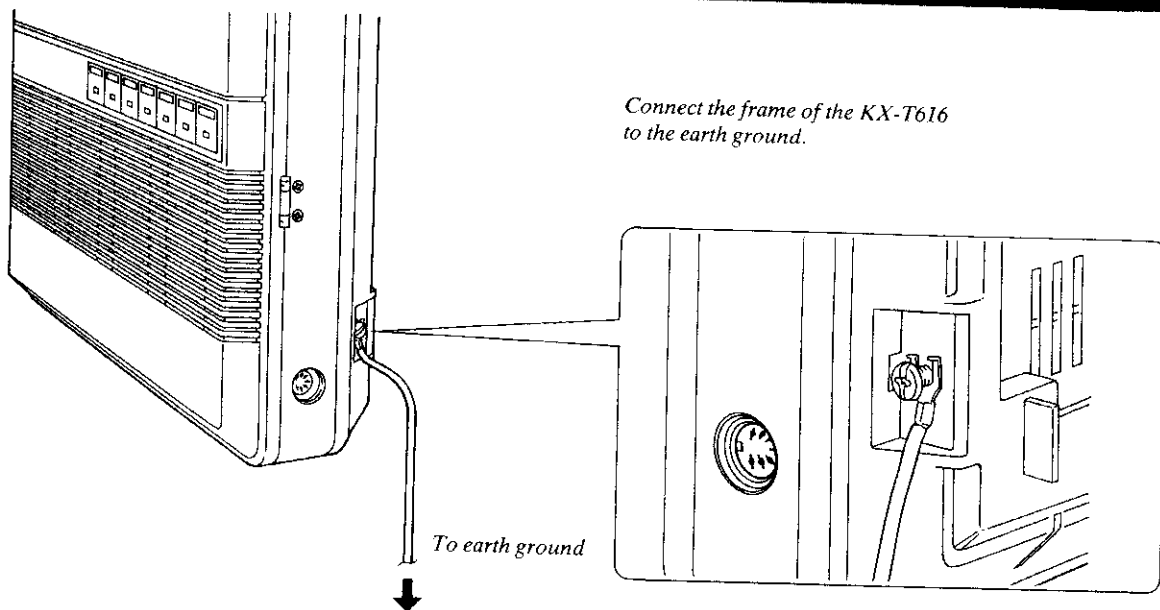
Fit the cut-out on both sides of the bracket to those of the KX-T616 and then hook it onto the bracket.



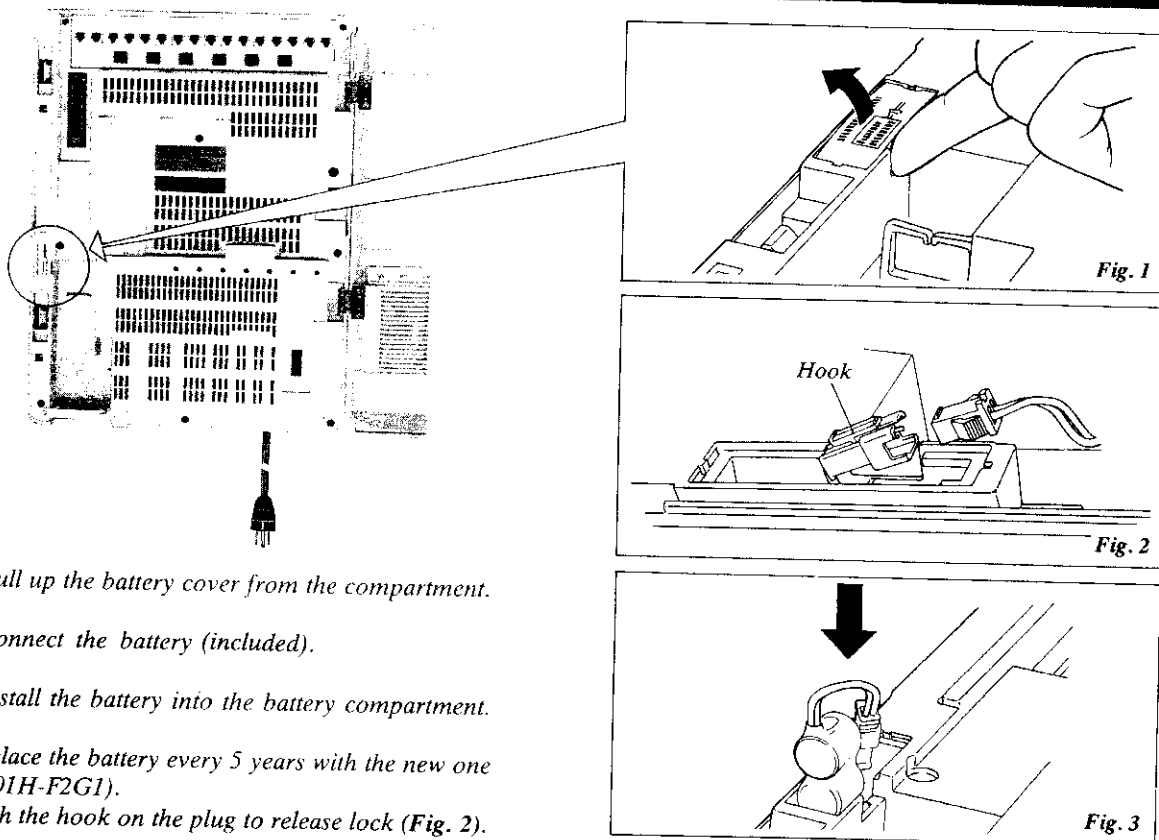
CONNECTION



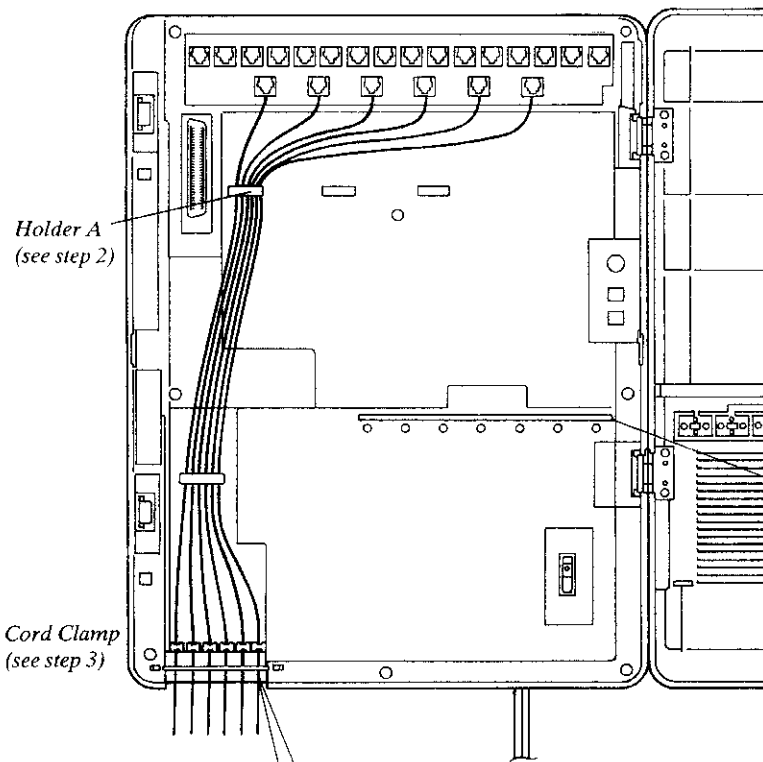
Frame Ground Connection



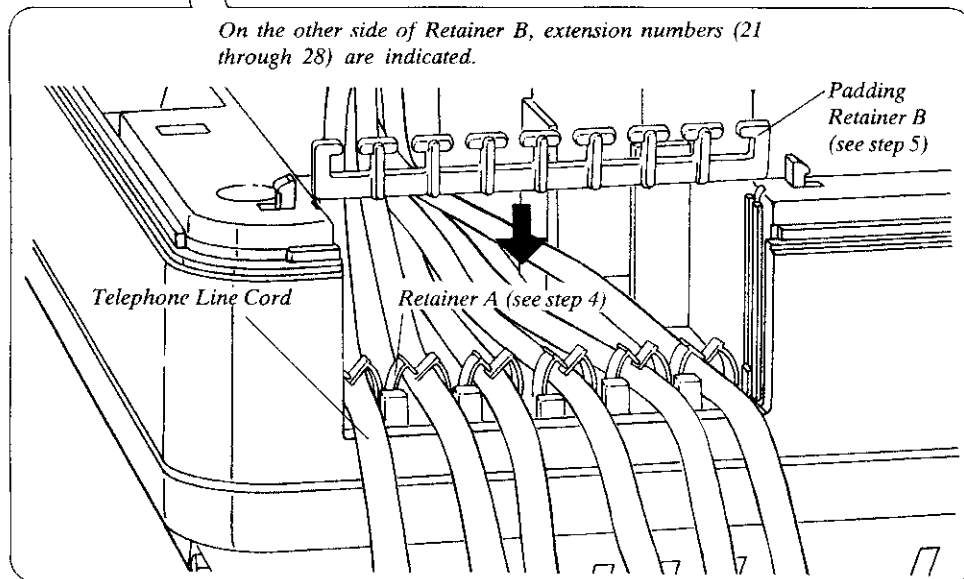
Rechargeable Battery Installation



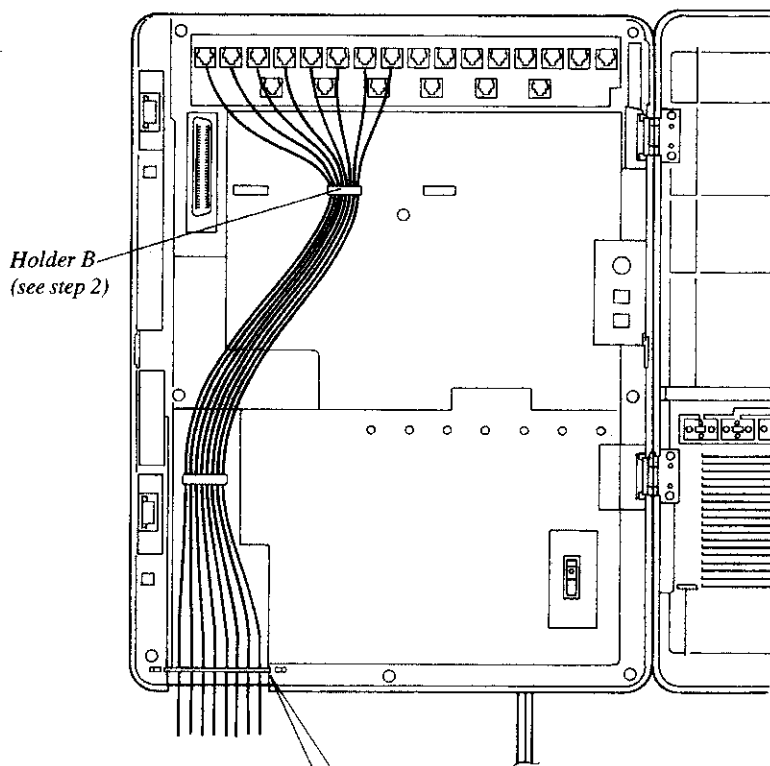
Telephone Cords from Central Office



1. Insert the modular plug of telephone line cord into the modular jack (marked CO) on the KX-T616.
2. Push the six telephone line cords into Holder A.
3. Push the Cord Clamps to separate and secure the six telephone line cords.
4. Place the six telephone line cords into the Retainer A.
5. Slide and place the Padding Retainer B on the Retainer A.



Modular Connection to Extensions (21-28)



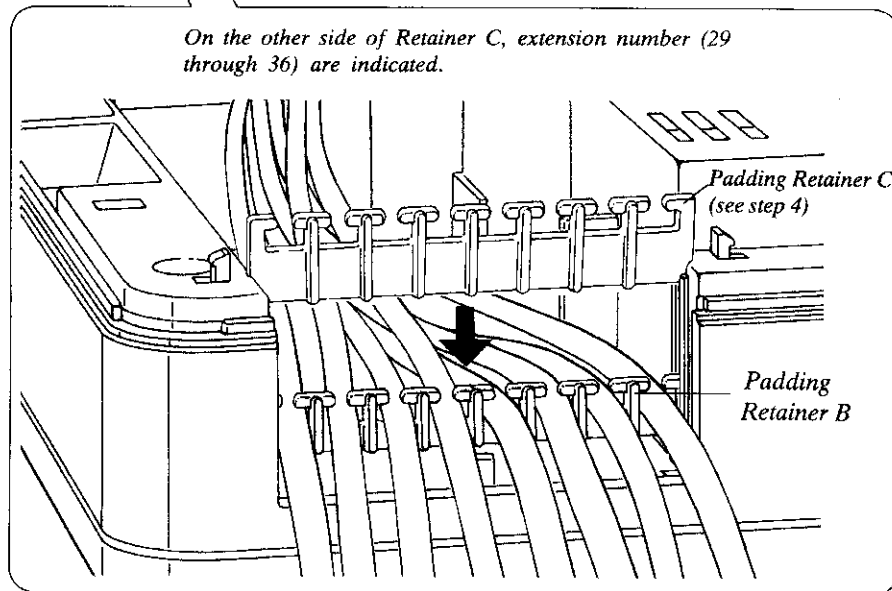
1. Insert the modular plug of telephone line cord into the modular jack (marked TEL) on the KX-T616.
2. Push into Holder B.
3. Place the eight extension line cords into the Padding Retainer B.
4. Slide and place the Padding Retainer C on the Padding Retainer B.

• The length of the telephone line cord that connects KX-T616 and the extension changes depending on the diameter as follows:

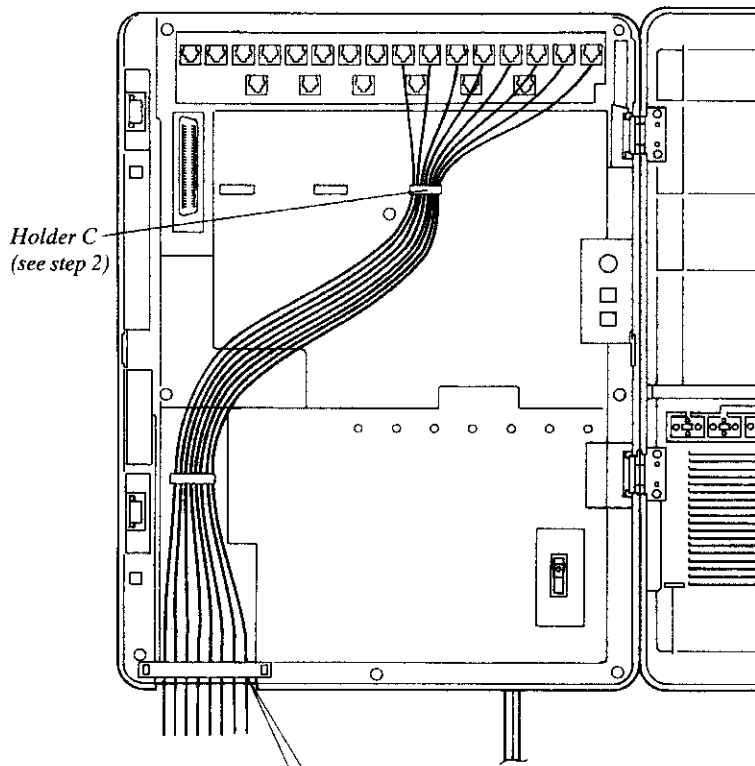
AWG 22: Under 1.2 miles

AWG 24: Under 0.6 mile

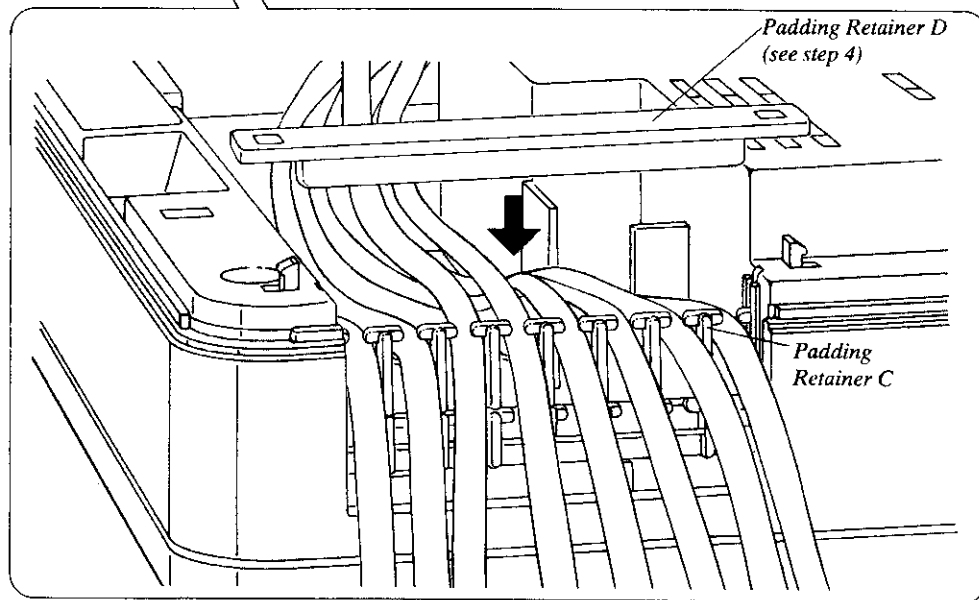
AWG 26: Under 0.4 mile



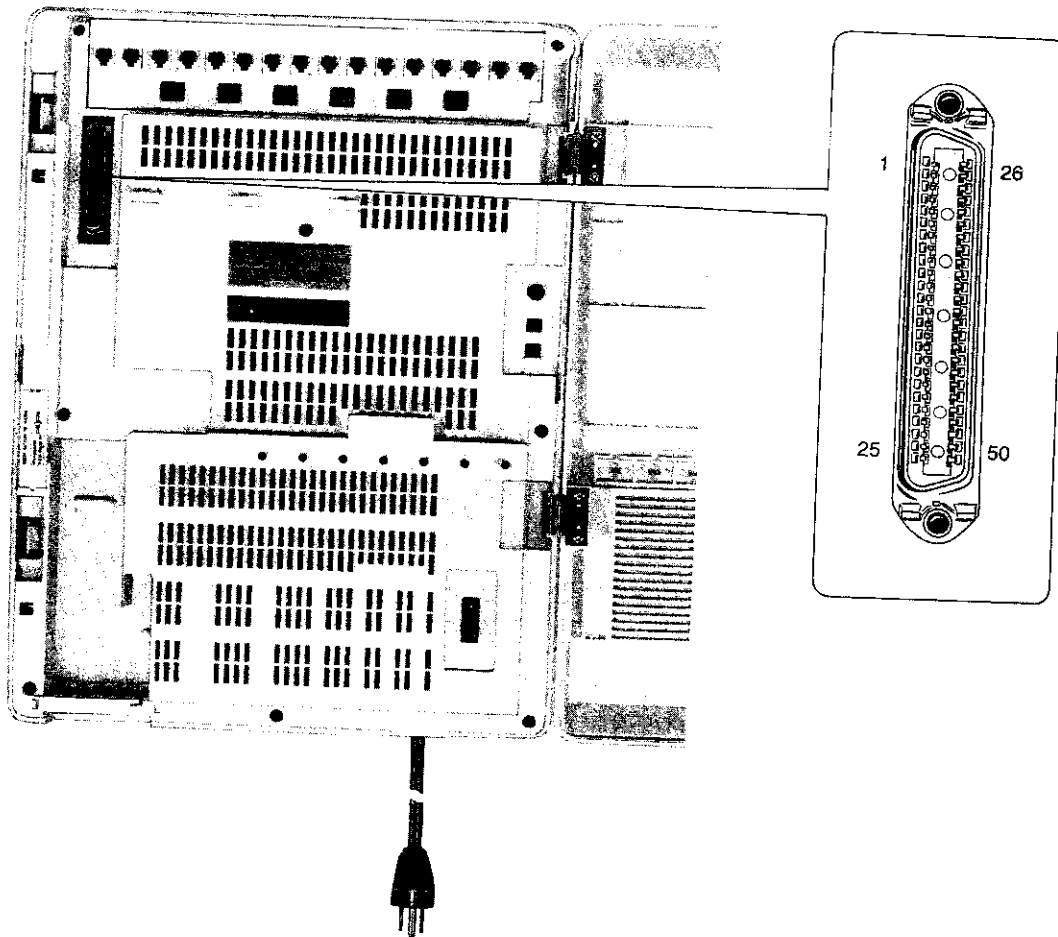
Modular Connection to Extensions (29-36)



1. Insert the modular plug of telephone line cord into the modular jack (marked TEL) on the KX-T616.
2. Push into Holder C.
3. Place the eight extension line cords into the Padding Retainer C.
4. Insert the Padding Retainer D.

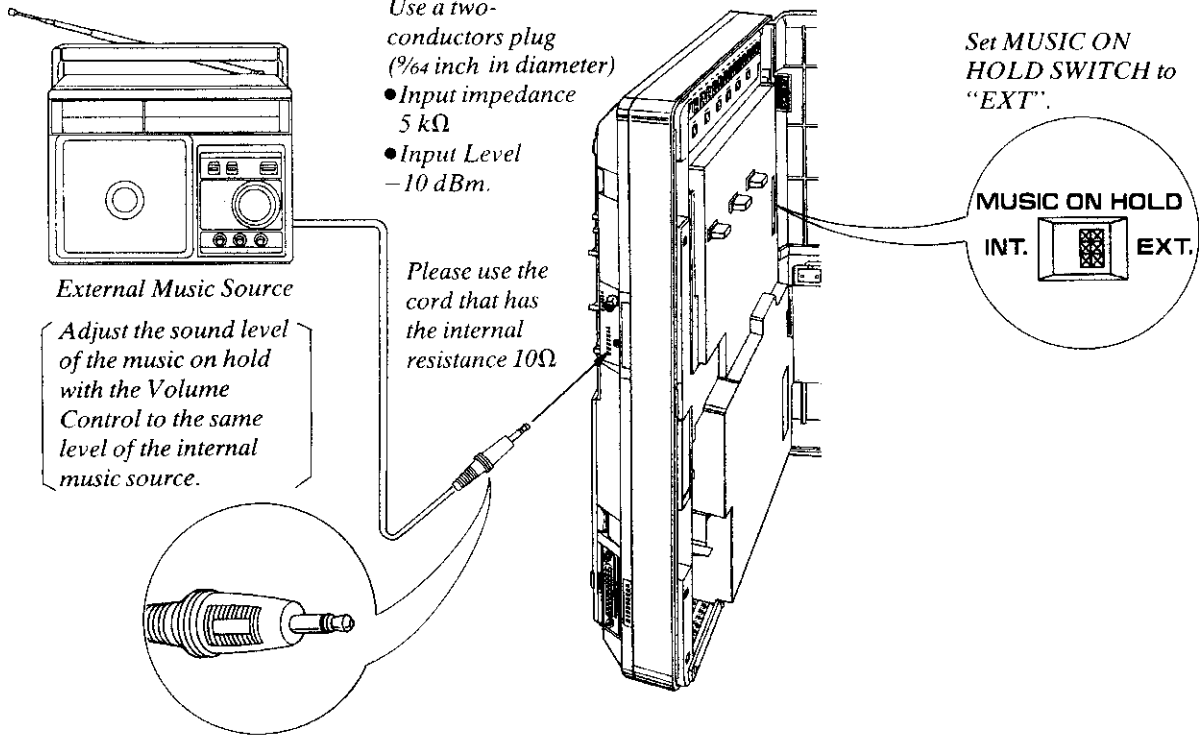


25-Paired Pin Connection to Extensions (21-36)



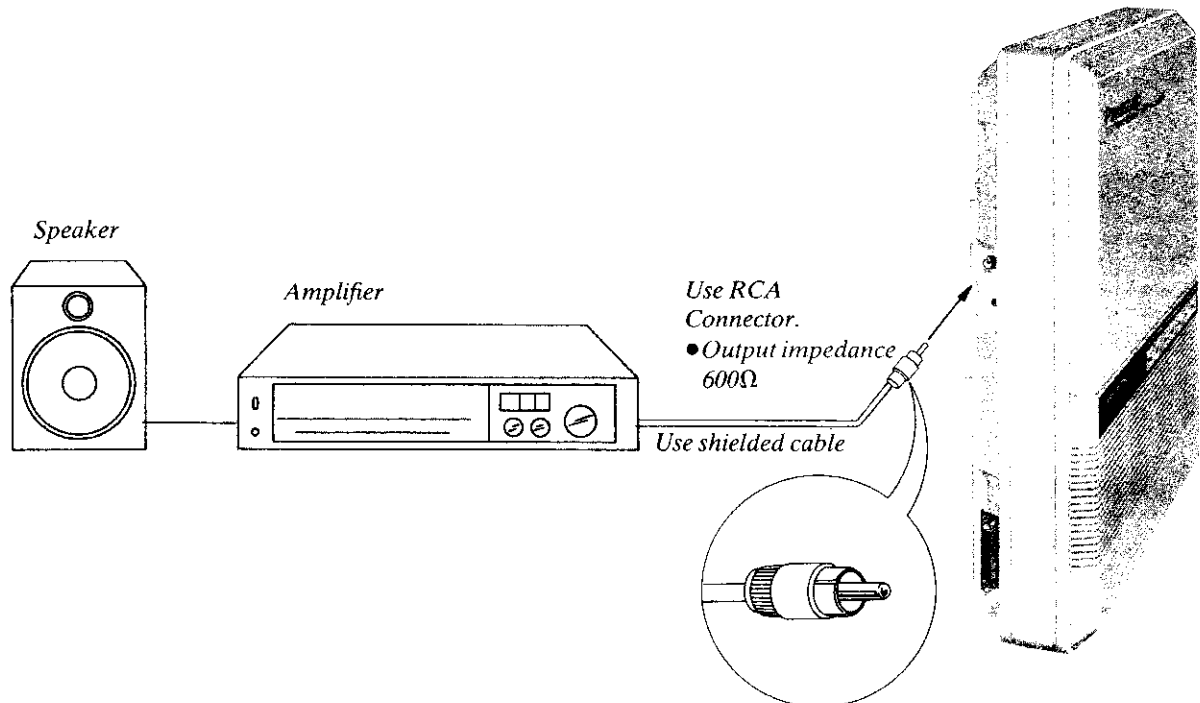
<i>T/R</i> \ <i>Ext.</i>	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
T	1	3	5	7	9	11	13	14	15	16	17	18	19	20	21	22
R	26	28	30	32	34	36	38	39	40	41	42	43	44	45	46	47

External Music Source

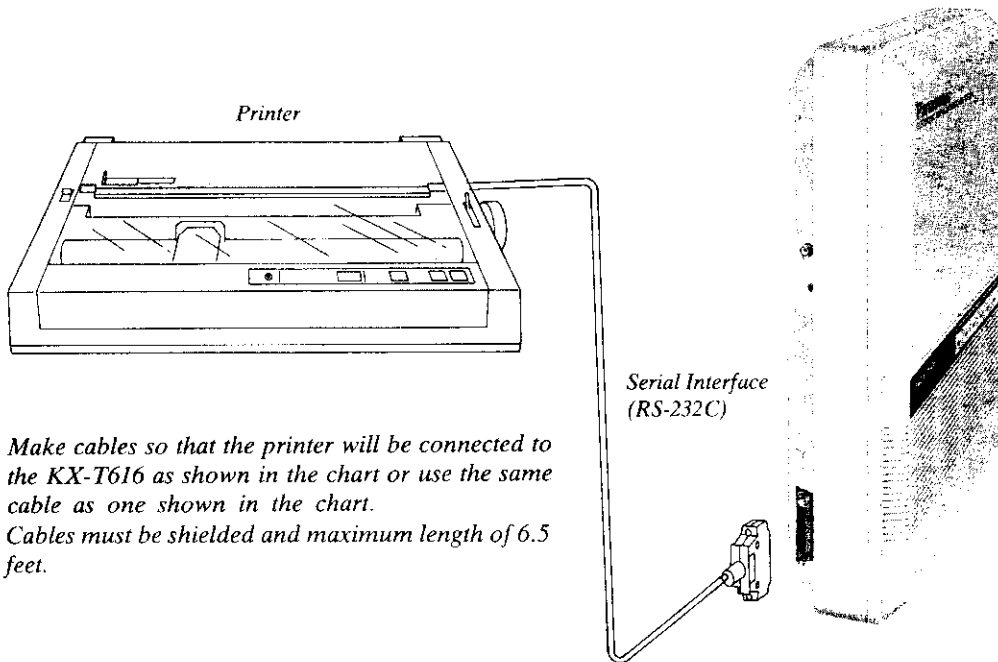


In the "INT" position, the internal music source plays music.

Paging Equipment



To Connect Printer



Make cables so that the printer will be connected to the KX-T616 as shown in the chart or use the same cable as one shown in the chart. Cables must be shielded and maximum length of 6.5 feet.

Connection Chart:

KX-T616 RS-232C			Printer RS-232C		
Circuit Type (EIA)	Signal Name	Pin No.	Pin No.	Signal Name	Circuit Type (EIA)
AA	FG	1	1	FG	AA
BA	TXD	2	3	RXD	BB
BB	RXD	3	2	TXD	BA
CB	CTS	5			
CC	DSR	6	20	DTR	CD
AB	SG	7	7	SG	AB
CD	DTR	20	5	CTS	CB
			6	DSR	CC
			8	DCD	CF

*Panasonic data terminal;

KX-D4910, KX-D4911, KX-D4920, etc.

When you connect this unit to Panasonic Data Terminal, the Communication Parameter Transmit XON/XOFF on Data Terminal must be set to "YES" position.

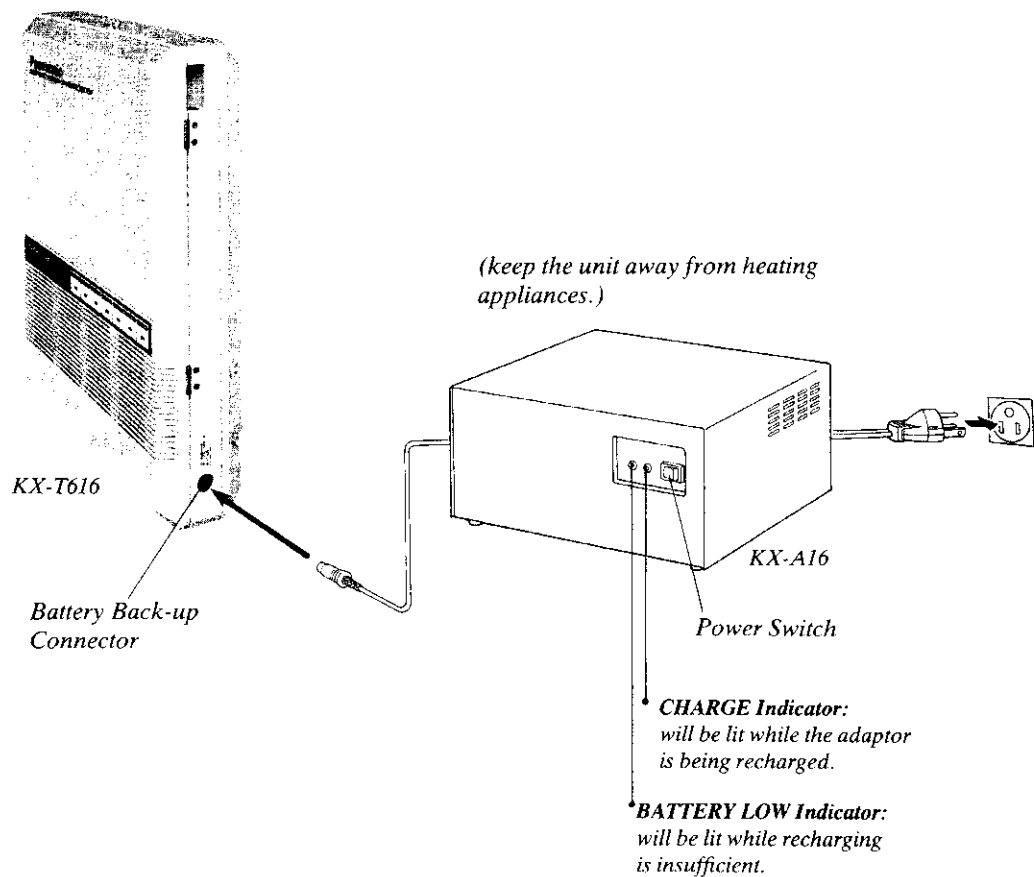
For further details, see Operating Instructions of Data Terminal.

When using special accessories such as cable, the user should use those specified in this installation manual to comply with the limits for a Class B computing device pursuant to Subpart J of Part 15 of FCC Rules.

To Connect Optional System Back-up Unit (KX-A16)

1. Connect the cord from the optional KX-A16 to the KX-T616.
2. Plug in the AC power cord from the KX-A16.
3. Turn on the Power Switch located on the KX-A16.
 - About 24 hours may be required to recharge the KX-A16.
 - The KX-A16 will work for about 4 hours (on the average) in the event of power failure.
 - The Battery is good for 3 years.
 - A simple way to check the KX-A16 is to disconnect the KX-T616 and the KX-A16 from the AC outlets, and then to observe if the KX-T616 operates.

- AC Primary Fuse, (250 V, 1.25 A)×1:
Replace the fuse which is in the fuse holder located on the rear, when the CHARGE Indicators turn off.



PROGRAMMING

To activate this system, the requirements from telephone company and the customer must be programmed once the Power Switch has been turned on.

Programming Instructions

1. All system programming changes (example: trunk Tone/Pulse conversion, system speed call entry) are done through extension 21.

• Extension 21 must always be a touch tone instrument.

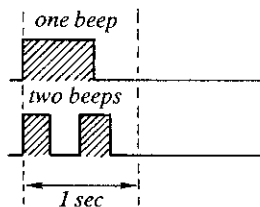
2. The System Program Switch must be always set to the PROGRAM position to make program changes.

After all programming changes are completed, return the program switch to the SET position.

3. The (#) key is always used to store program changes.

• One beep will be heard upon depressing (#) key, when new entries have been programmed.

• Two beeps will be heard if entry programmed is already present.



4. Different features may be assigned to different trunks.

Example:

You may enter different SWITCHHOOK FLASH TIMINGS for different trunks.

300 msec for trunk 1=(0003 1 1 #)

600 msec for trunk 3=(0003 3 2 #)

900 msec for trunk 6=(0003 6 3 #)

If 600 msec were to be used on all six trunks programming would look like (0003 * 2 #).

5. Before system programming changes, you may dial (0 0 0 9 0 0 0 #) and wait for two beeps, and then dial (9 0 0 0 #) and wait for two beeps in order to clear all system program.

A. Dialing (0009000#) from extension 21 clears the following features.

Trunk-Tone/Pulse Conversion
Switchhook Flash Timing
Disconnect time
CPC (Calling Party Control) Signal
Busy Tone Selection
SMDR—Printer Format
DTMF Receiver (see page 80)

B. Dialing (9000#) from extension 21 clears the following features.

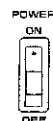
Hold Recall Time Set
Hold Time Reminder
Trunk Assignment
Dial Call Pickup Group Assignment
Toll Restriction
Programmable Howler
Programmable Paging Access Tone
SMDR—Printout Format
System Speed Call Entries
Automatic Call Back Busy Trunk or Extension
Call Forwarding
Data Line Security
Dial Call Pickup Deny
Do not Disturb
Flexible Night Service
Pickup Dial

6. You may access "data dump (on page 47)" on a printer by dialing (85*#). After setting the "SMDR printer formats" of the KX-T616 to those of the provided printer or setting vice versa, in order to see the default programs (system parameters, trunk parameters, extension parameters and speed dial entries).

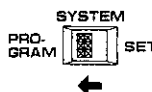
• For further details refer to pages 44 to 52.

Example of Programming

1. Turn the Power Switch to ON.

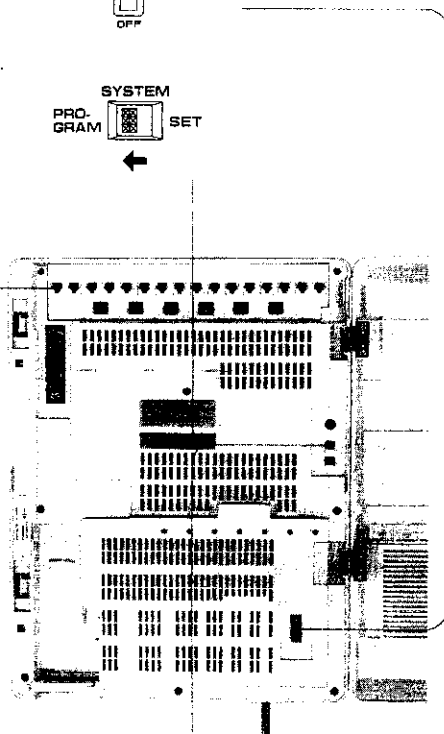


2. Set the System Program Switch to PROGRAM



3. To program **NON-CONVERSION** on all the trunks.

1.	Lift handset.	 <i>Touch tone telephone at extension 21.</i>							
2.	Dial (0001*0#)	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px 5px;">0</td> <td style="padding: 2px 5px;">0</td> <td style="padding: 2px 5px;">0</td> <td style="padding: 2px 5px;">1</td> <td style="padding: 2px 5px;">*</td> <td style="padding: 2px 5px;">0</td> <td style="padding: 2px 5px;">#</td> </tr> </table>	0	0	0	1	*	0	#
0	0	0	1	*	0	#			
3.	Wait for confirmation tone.	<i>will hear beep(s).</i>							
4.	Hang up.								



4. Return the System Program Switch to SET



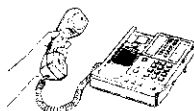
■ To make program change, start from the beginning.

■ While programming if a mistake is made,

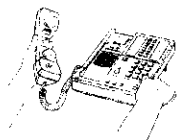
1. Hang up.



2. Lift handset.



3. Start programming procedure from the beginning.



While programming if a mistake is made, hang up and then start programming procedure from the beginning.

Trunk Tone/Pulse Conversion

A=*: to assign the same on all 6 trunks ...default
1: to assign to trunk 1 only
 ...
6: to assign to trunk 6 only

B=0: non-conversion ... default
1: tone (DTMF) mode
2: pulse mode

1. 0001 A B #
 2. 0001 2 2 #
 3. 0001 3 2 #

Description

Allows the user to select the dialing mode (tone or pulse) for each trunk for operation between the Central Office and the KX-T616. There are three choices available, non-conversion, pulse to tone and tone to pulse.

•NON-CONVERSION:

The dial signal from the extension will be transmitted to the Central Office on through the trunk without Tone or Pulse conversion.

•PULSE TO TONE CONVERSION:

The dial signal from the extension will be converted to TONE. TONE will then be transmitted to the Central Office.

•TONE TO PULSE CONVERSION:

The dial signal from the extension will be converted to PULSE. PULSE will then be transmitted to the Central Office.

Programming

1. Lift handset of extension 21.
2. Dial (0001).
3. Select trunk (1 through 6) or * if you wish conversion to be common to all six trunks.
4. Enter conversion parameter.
(0=non-conversion), (1=tone mode) or (2=pulse mode).
5. Dial (#) and wait for confirmation tone.
6. Repeat above procedure on each trunk.
7. Hang up.

Example

NON CONVERSION on all 6 trunks=
 (0001 * 0 #)

Refer to page 17.

Programming Table

	Trunk(s) *	non-conversion (pulse to pulse, tone to tone)	tone (DTMF) mode (pulse to tone, tone to tone)	pulse mode (tone to pulse, pulse to pulse)
Default	<u>123456</u>	x		
To make program change	123456			X
	1	X		
	2			X
	3			X
	4			
	5			
	6			

A= [X]: to assign the same on all 6 trunks.

[1]: to assign to trunk 1 only.

⋮

[6]: to assign to trunk 6 only.

B= [0]: non-conversion

[1]: tone (DTMF) mode

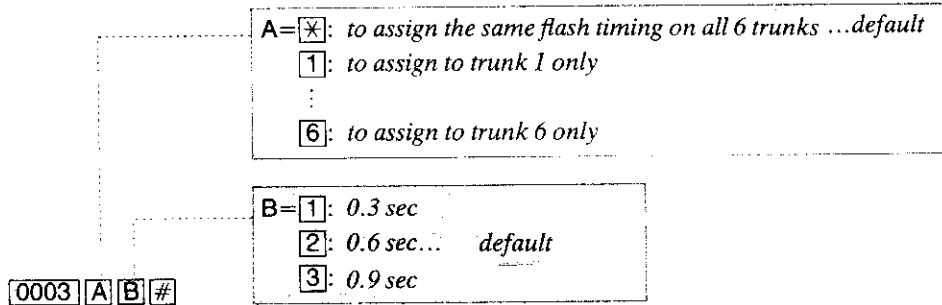
[2]: pulse mode

[0001] [A] [B] [#]

Conditions

- Both Rotary and Touch Tone instruments will operate with the KX-T616 even when NON-CONVERSION, PULSE TO TONE CONVERSION or TONE TO PULSE CONVERSION mode is programmed.
- If KX-T616 is installed behind a host PBX or Central Office which allows any telephone, either rotary or touch tone to be used, select NON-CONVERSION.
- When KX-T616 is connected to the Pulse trunk of which Dial tone frequency is 600 Hz, set Tone/ Pulse conversion to "Pulse mode" and use the extension provided with the Pulse mode.

Switchhook Flash Timing



Description

The timing of the switchhook flash signal length must be within Central Office requirements. There are three choices available 0.3, 0.6 or 0.9 second.

Example

- 0.3 sec on all 6 trunks = (0003 * 1 #)
- 0.3 sec trunk 1 = (0003 1 1 #)
- 0.6 sec trunk 2 = (0003 2 2 #)
- 0.9 sec trunk 3 = (0003 3 3 #)
- 0.9 sec trunk 4 = (0003 4 3 #)
- 0.3 sec trunk 5 = (0003 5 1 #)
- 0.6 sec trunk 6 = (0003 6 2 #)

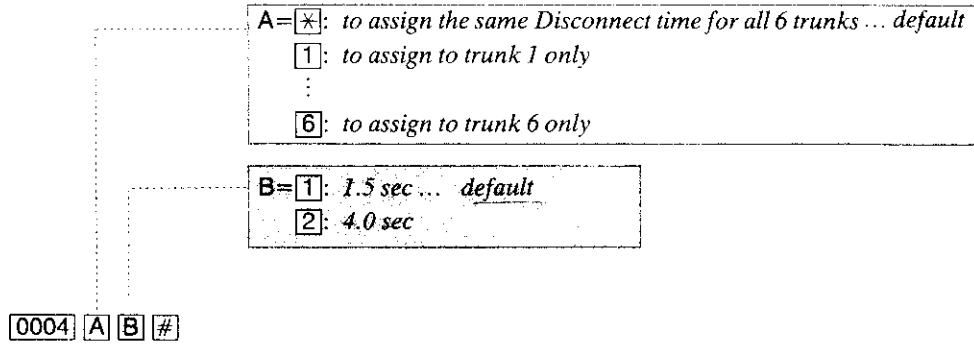
Programming

1. Lift handset of extension 21.
2. Dial (0003).
3. Select Trunk (1 through 6) or (*) if you wish timing to be common to all six trunks.
4. Enter timing parameter.
(1=0.3 sec), (2=0.6 sec) or (3=0.9 sec).
5. Dial (#) and wait for confirmation tone.
6. Repeat above procedure to program on each trunk.
7. Hang up.

Programming Table

	trunks *	0.3 sec	0.6 sec	0.9 sec
Default ↙	123456		×	
To make program change	123456 *		X	
	1			
	2			
	3			
	4			
	5			
	6			

Disconnect Time



Description

A certain amount of time is needed for a call to be released, this is necessary so that new calls may be attempted after disconnecting with previous calls.

Select the time, according to Central Office or host PBX requirements.

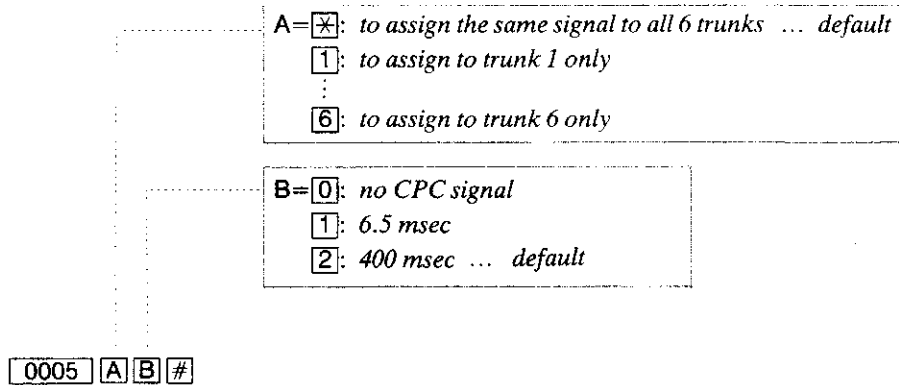
Programming

1. Lift handset of extension 21.
2. Dial (0004).
3. Dial Trunk number (1 through 6) or (*) if disconnect time is to be the same for all six trunks.
4. Dial (1 for 1.5 sec) or (2 for 4.0 sec).
5. Dial (#) and wait for confirmation tone.
6. Repeat above procedure to program on each trunk.
7. Hang up.

Programming Table

	trunks	1.5 sec	4.0 sec
<i>Default</i>	123456	×	
<i>To make program change</i>	* 123456	×	
	1		
	2		
	3		
	4		
	5		
	6		

Calling Party Control (CPC) Signal



Description

To detect an outside party hanging up and then terminate the trunk (after a conversation, conference etc.), a CPC signal of either 6.5 or 400 msec is needed.

Conditions

- If KX-T616 is installed behind a host PBX, no CPC signal is required.

Programming

1. Lift handset of extension 21.
2. Dial (0005).
3. Dial (*) if CPC signal is to be the same on all six trunks or just enter the desired trunk number.
4. Dial (1 for 6.5 msec) or (2 for 400 msec).
5. Dial (#) and wait for confirmation tone.
6. Hang up.

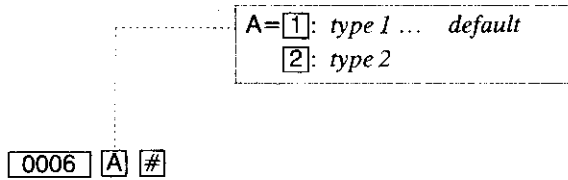
Example

- 6.5 msec trunk 1=(0005 1 1 #)
- 400 msec trunk 2=(0005 2 2 #)
- 400 msec trunk 3=(0005 3 2 #)
- 6.5 msec trunk 4=(0005 4 1 #)
- 6.5 msec trunk 5=(0005 5 1 #)
- 400 msec trunk 6=(0005 6 2 #)

Programming Table

	trunks	no CPC signal	6.5 msec	400 msec
Default	123456			×
<i>To make program change</i>	*123456			✗
	1			
	2			
	3			
	4			
	5			
	6			

Busy Tone Selection



Description

For telephone instruments that have automatic busy tone detection, it is suggested that busy tone type (1) be used. Selection of busy tone type (1) insures that the camp on feature on Panasonic ITS phones will operate.

Conditions

- Because Panasonic ITS phones (KX-T2130, KX-T2131, KX-T2140, etc.) are equipped with automatic busy tone detection in the speakerphone mode, calls will be terminated upon hearing a busy signal of busy tone type (2) therefore camp on feature cannot be activated.

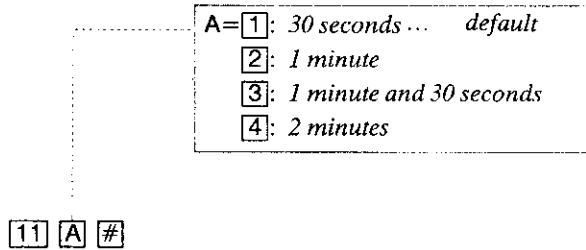
Programming

1. Lift handset of extension 21.
2. Dial (0006).
3. Dial (1 for busy tone type 1) or (2 for busy tone type 2).
4. Dial (#) and wait for confirmation tone.
5. Hang up.

Programming Table

	<i>busy tone type 1</i>	<i>busy tone type 2</i>
<i>Default</i>	×	/
<i>To make program change</i>		

Hold Recall Time Set



Description

When a handset of holding extension is replaced on trunk calls and intercom calls, you may have automatic hold recall after the desired time elapses.

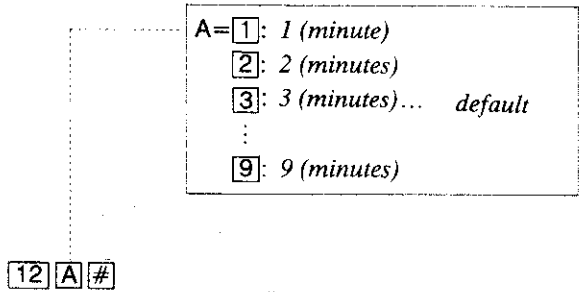
Programming

1. Lift handset of extension 21.
2. Dial (11).
3. Enter the desired time.
(1 for 30 seconds) (2 for 1 minute) (3 for 1 minute and 30 seconds) (4 for 2 minutes)
4. Dial (#) and wait for confirmation tone.
5. Hang up.

Programming Table

	30 seconds	1 minute	1 minute 30 seconds	2 minutes
<i>Default</i>	×			
<i>To make program change</i>				

Hold Time Reminder



Description

A tone indication will be heard at the holding extension to remind user that he still has a call on hold. The reminder will be sounded after 3 minutes, but can be changed. There are 9 choices ranging from (1) minute to (9).

21

Programming

1. Lift handset of extension 21.
2. Dial (12).
3. Enter number of minutes (1 through 9).
4. Dial (#) and wait for confirmation tone.
5. Hang up.

Example

4 minutes = (12 4 #).

Programming Table

	minutes									
	1	2	3	4	5	6	7	8	9	
Default			×							
To make program change										

Ext. # 21

For NO RINGING
Do not program in Trunk #'s

Trunk Assignment

21 781 #

21
25

AB = 2 *: to assign the same on all 16 extensions ... default
2 1: to assign to extension 21 only
 ⋮
3 6: to assign to extension 36 only

C = *: for day and night time service ... default
1: daytime service
2: nighttime service

D = *: outgoing and incoming calls ... default
1: outgoing calls
2: incoming calls Ring

E...F = 1: trunk
 (string of trunk number)
1 2 3 4 5 6 : all 6 trunks... default
 (or *)

25-36 X

A B C D E...F #

•Another way to reset default plan is to dial (2*#).

Description

Using Trunk Assignment you may select the following:

Flexible Ringing:

Through programming you can select what extensions will ring on incoming trunk calls.

Flexible Outward Dialing:

You can assign, through programming, the trunks each extension may have access to.

Flexible Ringing and Flexible Outward Dialing:

Two plans are available. A daytime plan and a nighttime plan.

Programming

If Default Plan is not used, each extension must be programmed for Day and Night as well as Incoming and Outgoing. It is possible that each extension could be programmed 4 different times, to assign desired trunk assignment (see example).

Trunk No.
2 * * * 1 2 3 4 5 6 #

It is important the — trunks are programmed, otherwise extension user will be unable to place outside calls.

Example: COMPANY XYZ
(3 trunks by 7 extensions)

Company XYZ wants only extension 21 and 25 to have access to trunks 1, 2, 3 on outgoing calls during the day. Extensions 22, 23, 24, 26 and 27 are to be programmed for access to only trunks 1 and 2.

- (21 1 1 1 2 3 #)
- (22 1 1 1 2 #)
- (23 1 1 1 2 #)
- (24 1 1 1 2 #)
- (25 1 1 1 2 3 #)
- (26 1 1 1 2 #)
- (27 1 1 1 2 #)

But company XYZ wants only Extension 21 to have access to outside trunks 1, 2 and 3 during the night, and any other extensions to have no access to outside trunks at nighttime.

- (21 2 1 1 2 3 #)
- (22 2 1 #)
- (23 2 1 #)
- (24 2 1 #)
- (25 2 1 #)
- (26 2 1 #)
- (27 2 1 #)

Incoming calls during the daytime are programmed to ring at extensions 21 and 27 only.

- (21 1 2 1 2 3 #)
- (22 1 2 #)
- (23 1 2 #)
- (24 1 2 #)
- (25 1 2 #)
- (26 1 2 #)
- (27 1 2 1 2 3 #)

Finally Company XYZ would like all incoming calls to ring at all extensions during the nighttime.

- (21 2 2 1 2 3 #)
- (22 2 2 1 2 3 #)
- (23 2 2 1 2 3 #)
- (24 2 2 1 2 3 #)
- (25 2 2 1 2 3 #)
- (26 2 2 1 2 3 #)
- (27 2 2 1 2 3 #)

Extension 21	Trunk Number		
	1	2	3
1 Day Outgoing	x	x	x
2 Day Incoming	x	x	x
3 Night Outgoing	x	x	x
4 Night Incoming	x	x	x

Extension 22	Trunk Number		
	1	2	3
1 Day Outgoing	x	x	
2 Day Incoming			
3 Night Outgoing			
4 Night Incoming	x	x	x

Extension 23	Trunk Number		
	1	2	3
1 Day Outgoing	x	x	
2 Day Incoming			
3 Night Outgoing			
4 Night Incoming	x	x	x

Extension 24	Trunk Number		
	1	2	3
1 Day Outgoing	x	x	
2 Day Incoming			
3 Night Outgoing			
4 Night Incoming	x	x	x

Extension 25	Trunk Number		
	1	2	3
1 Day Outgoing	x	x	x
2 Day Incoming			
3 Night Outgoing			
4 Night Incoming	x	x	x

Extension 26	Trunk Number		
	1	2	3
1 Day Outgoing	x	x	
2 Day Incoming			
3 Night Outgoing			
4 Night Incoming	x	x	x

Extension 27	Trunk Number		
	1	2	3
1 Day Outgoing	x	x	
2 Day Incoming	x	x	x
3 Night Outgoing			
4 Night Incoming	x	x	x

Programming Table

Default Table

Extensions 21 through 36	Trunk Number					
	1	2	3	4	5	6
Day Outgoing	x	x	x	x	x	x
Day Incoming	x	x	x	x	x	x
Night Outgoing	x	x	x	x	x	x
Night Incoming	x	x	x	x	x	x

all 16 extensions
day and night
outgoing and incoming calls
all 6 trunks

2* * * 123456 #
(or *)

To make program change

Extension 21	Trunk Number					
	1	2	3	4	5	6
1 Day Outgoing						
2 Day Incoming						
3 Night Outgoing						
4 Night Incoming						

① Day Outgoing (outgoing calls for daytime)

A...B=string of trunk number

21 1 1 A...B #

outgoing calls code

day plan code

② Day Incoming (incoming calls for daytime)

A...B=string of trunk number

21 1 2 A...B #

incoming calls code

day plan code

③ Night Outgoing (outgoing calls for nighttime)

A...B=string of trunk number

21 2 1 A...B #

outgoing calls code

night plan code

④ Night Incoming (incoming calls for nighttime)

A...B=string of trunk number

21 2 2 A...B #

incoming calls code

night plan code

Or other ways

Ⓐ To assign both outgoing and incoming calls to the same trunks, for daytime.

21 1 * A...B #

outgoing and incoming

day

Ⓑ To assign both outgoing and incoming calls to the same trunks, for nighttime.

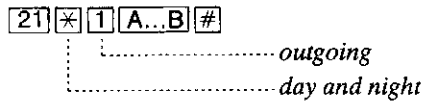
21 2 * A...B #

outgoing and incoming

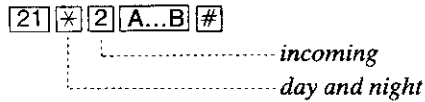
night

Or to assign for daytime and nighttime to the same trunks

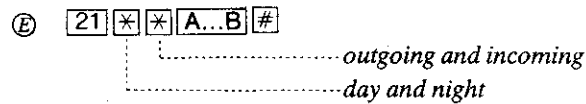
Ⓒ Outgoing calls



Ⓓ Incoming calls



Or to assign both outgoing and incoming calls to the same trunks, for both daytime and nighttime



Extension 22	Trunk Number					
	1	2	3	4	5	6
1 Day Outgoing						
2 Day Incoming						
3 Night Outgoing						
4 Night Incoming						

- ① Day Outgoing 22 1 1 A...B #
- ② Day Incoming 22 1 2 A...B #
- ③ Night Outgoing 22 2 1 A...B #
- ④ Night Incoming 22 2 2 A...B #

- or
- Ⓐ Day, Outgoing & Incoming (①, ②) 22 1 * A...B #
 - Ⓑ Night, Outgoing & Incoming (③, ④) 22 2 * A...B #

- or
- Ⓒ Day & Night, Outgoing (①, ③) 22 * 1 A...B #
 - Ⓓ Day & Night, Incoming (②, ④) 22 * 2 A...B #

- or
- Ⓔ Day & Night, Outgoing & Incoming (①, ②, ③, ④) 22 * * A...B #

← will Allow Ring in when Trunks are Put in AB spot.

Extension 23		Trunk Number					
		1	2	3	4	5	6
1	Day Outgoing						
2	Day Incoming						
3	Night Outgoing						
4	Night Incoming						

① Day Outgoing 23 1 1 A...B #
 ② Day Incoming 23 1 2 A...B #
 ③ Night Outgoing 23 2 1 A...B #
 ④ Night Incoming 23 2 2 A...B #

or ④ Day, Outgoing & Incoming (①, ②) 23 1 * A...B #
 ⑤ Night, Outgoing & Incoming (③, ④) 23 2 * A...B #

or ⑥ Day & Night, Outgoing (①, ③) 23 * 1 A...B #
 ⑦ Day & Night, Incoming (②, ④) 23 * 2 A...B #

or ⑧ Day & Night, Outgoing & Incoming (①, ②, ③, ④) 23 * * A...B #

Extension 24		Trunk Number					
		1	2	3	4	5	6
1	Day Outgoing						
2	Day Incoming						
3	Night Outgoing						
4	Night Incoming						

① Day Outgoing 24 1 1 A...B #
 ② Day Incoming 24 1 2 A...B #
 ③ Night Outgoing 24 2 1 A...B #
 ④ Night Incoming 24 2 2 A...B #

or ④ Day, Outgoing & Incoming (①, ②) 24 1 * A...B #
 ⑤ Night, Outgoing & Incoming (③, ④) 24 2 * A...B #

or ⑥ Day & Night, Outgoing (①, ③) 24 * 1 A...B #
 ⑦ Day & Night, Incoming (②, ④) 24 * 2 A...B #

or ⑧ Day & Night, Outgoing & Incoming (①, ②, ③, ④) 24 * * A...B #

Extension 25	Trunk Number					
	1	2	3	4	5	6
1 Day Outgoing	X	X	X			
2 Day Incoming						
3 Night Outgoing	X	X	X			
4 Night Incoming						

NO RING

NO RING

- ① Day Outgoing 25 1 1 A...B #
 - ② Day Incoming 25 1 2 A...B #
 - ③ Night Outgoing 25 2 1 A...B #
 - ④ Night Incoming 25 2 2 A...B #
- or
- Ⓐ Day, Outgoing & Incoming (①, ②) 25 1 * A...B #
 - Ⓑ Night, Outgoing & Incoming (③, ④) 25 2 * A...B #
- or
- Ⓒ Day & Night, Outgoing (①, ③) 25 * 1 A...B #
 - Ⓓ Day & Night, Incoming (②, ④) 25 * 2 A...B #
- or
- Ⓔ Day & Night, Outgoing & Incoming (①, ②, ③, ④) 25 * * A...B #

Extension 26	Trunk Number					
	1	2	3	4	5	6
1 Day Outgoing						
2 Day Incoming						
3 Night Outgoing						
4 Night Incoming						

- ① Day Outgoing 26 1 1 A...B #
 - ② Day Incoming 26 1 2 A...B #
 - ③ Night Outgoing 26 2 1 A...B #
 - ④ Night Incoming 26 2 2 A...B #
- or
- Ⓐ Day, Outgoing & Incoming (①, ②) 26 1 * A...B #
 - Ⓑ Night, Outgoing & Incoming (③, ④) 26 2 * A...B #
- or
- Ⓒ Day & Night, Outgoing (①, ③) 26 * 1 A...B #
 - Ⓓ Day & Night, Incoming (②, ④) 26 * 2 A...B #
- or
- Ⓔ Day & Night, Outgoing & Incoming (①, ②, ③, ④) 26 * * A...B #

Extension 27	Trunk Number					
	1	2	3	4	5	6
1 Day Outgoing						
2 Day Incoming						
3 Night Outgoing						
4 Night Incoming						

- ① Day Outgoing 27 1 1 A...B #
 - ② Day Incoming 27 1 2 A...B #
 - ③ Night Outgoing 27 2 1 A...B #
 - ④ Night Incoming 27 2 2 A...B #
- or
- Ⓐ Day, Outgoing & Incoming (①, ②) 27 1 * A...B #
 - Ⓑ Night, Outgoing & Incoming (③, ④) 27 2 * A...B #
- or
- Ⓒ Day & Night, Outgoing (①, ③) 27 * 1 A...B #
 - Ⓓ Day & Night, Incoming (②, ④) 27 * 2 A...B #
- or
- Ⓔ Day & Night, Outgoing & Incoming (①, ②, ③, ④) 27 * * A...B #

Extension 28	Trunk Number					
	1	2	3	4	5	6
1 Day Outgoing						
2 Day Incoming						
3 Night Outgoing						
4 Night Incoming						

- ① Day Outgoing 28 1 1 A...B #
 - ② Day Incoming 28 1 2 A...B #
 - ③ Night Outgoing 28 2 1 A...B #
 - ④ Night Incoming 28 2 2 A...B #
- or
- Ⓐ Day, Outgoing & Incoming (①, ②) 28 1 * A...B #
 - Ⓑ Night, Outgoing & Incoming (③, ④) 28 2 * A...B #
- or
- Ⓒ Day & Night, Outgoing (①, ③) 28 * 1 A...B #
 - Ⓓ Day & Night, Incoming (②, ④) 28 * 2 A...B #
- or
- Ⓔ Day & Night, Outgoing & Incoming (①, ②, ③, ④) 28 * * A...B #

Extension 29	Trunk Number					
	1	2	3	4	5	6
1 Day Outgoing						
2 Day Incoming						
3 Night Outgoing						
4 Night Incoming						

- ① Day Outgoing 29 1 1 A...B #
- ② Day Incoming 29 1 2 A...B #
- ③ Night Outgoing 29 2 1 A...B #
- ④ Night Incoming 29 2 2 A...B #

- or ④ Day, Outgoing & Incoming (①, ②) 29 1 * A...B #
- ⑤ Night, Outgoing & Incoming (③, ④) 29 2 * A...B #

- or ⑥ Day & Night, Outgoing (①, ③) 29 * 1 A...B #
- ⑦ Day & Night, Incoming (②, ④) 29 * 2 A...B #

- or ⑧ Day & Night, Outgoing & Incoming (①, ②, ③, ④) 29 * * A...B #

Extension 30	Trunk Number					
	1	2	3	4	5	6
1 Day Outgoing						
2 Day Incoming						
3 Night Outgoing						
4 Night Incoming						

- ① Day Outgoing 30 1 1 A...B #
- ② Day Incoming 30 1 2 A...B #
- ③ Night Outgoing 30 2 1 A...B #
- ④ Night Incoming 30 2 2 A...B #

- or ④ Day, Outgoing & Incoming (①, ②) 30 1 * A...B #
- ⑤ Night, Outgoing & Incoming (③, ④) 30 2 * A...B #

- or ⑥ Day & Night, Outgoing (①, ③) 30 * 1 A...B #
- ⑦ Day & Night, Incoming (②, ④) 30 * 2 A...B #

- or ⑧ Day & Night, Outgoing & Incoming (①, ②, ③, ④) 30 * * A...B #

Extension 31	Trunk Number					
	1	2	3	4	5	6
1 Day Outgoing						
2 Day Incoming						
3 Night Outgoing						
4 Night Incoming						

- ① Day Outgoing 31 1 1 A...B #
- ② Day Incoming 31 1 2 A...B #
- ③ Night Outgoing 31 2 1 A...B #
- ④ Night Incoming 31 2 2 A...B #

- or
- Ⓐ Day, Outgoing & Incoming (①, ②) 31 1 * A...B #
 - Ⓑ Night, Outgoing & Incoming (③, ④) 31 2 * A...B #

- or
- Ⓒ Day & Night, Outgoing (①, ③) 31 * 1 A...B #
 - Ⓓ Day & Night, Incoming (②, ④) 31 * 2 A...B #

- or
- Ⓔ Day & Night, Outgoing & Incoming (①, ②, ③, ④) 31 * * A...B #

Extension 32	Trunk Number					
	1	2	3	4	5	6
1 Day Outgoing	✓	✓	✓			
2 Day Incoming						
3 Night Outgoing	✓	✓	✓			
4 Night Incoming						

- ① Day Outgoing 32 1 1 A...B #
- ② Day Incoming 32 1 2 A...B #
- ③ Night Outgoing 32 2 1 A...B #
- ④ Night Incoming 32 2 2 A...B #

- or
- Ⓐ Day, Outgoing & Incoming (①, ②) 32 1 * A...B #
 - Ⓑ Night, Outgoing & Incoming (③, ④) 32 2 * A...B #

- or
- Ⓒ Day & Night, Outgoing (①, ③) 32 * 1 A...B #
 - Ⓓ Day & Night, Incoming (②, ④) 32 * 2 A...B #

- or
- Ⓔ Day & Night, Outgoing & Incoming (①, ②, ③, ④) 32 * * A...B #

Extension 33		Trunk Number					
		1	2	3	4	5	6
1	Day Outgoing	✓	✓	✓			
2	Day Incoming						
3	Night Outgoing	✓	✓	✓			
4	Night Incoming						

- ① Day Outgoing 33 1 1 A..B #
- ② Day Incoming 33 1 2 A..B #
- ③ Night Outgoing 33 2 1 A..B #
- ④ Night Incoming 33 2 2 A..B #

- or Ⓐ Day, Outgoing & Incoming (①, ②) 33 1 * A..B #
- Ⓑ Night, Outgoing & Incoming (③, ④) 33 2 * A..B #

- or Ⓒ Day & Night, Outgoing (①, ③) 33 * 1 A..B #
- Ⓓ Day & Night, Incoming (②, ④) 33 * 2 A..B #

AB = 123
AB = 40710055

- or Ⓔ Day & Night, Outgoing & Incoming (①, ②, ③, ④) 33 * * A..B #

Extension 34		Trunk Number					
		1	2	3	4	5	6
1	Day Outgoing						
2	Day Incoming						
3	Night Outgoing						
4	Night Incoming						

- ① Day Outgoing 34 1 1 A..B #
- ② Day Incoming 34 1 2 A..B #
- ③ Night Outgoing 34 2 1 A..B #
- ④ Night Incoming 34 2 2 A..B #

- or Ⓐ Day, Outgoing & Incoming (①, ②) 34 1 * A..B #
- Ⓑ Night, Outgoing & Incoming (③, ④) 34 2 * A..B #

- or Ⓒ Day & Night, Outgoing (①, ③) 34 * 1 A..B #
- Ⓓ Day & Night, Incoming (②, ④) 34 * 2 A..B #

- or Ⓔ Day & Night, Outgoing & Incoming (①, ②, ③, ④) 34 * * A..B #

Extension 35	Trunk Number					
	1	2	3	4	5	6
1 Day Outgoing						
2 Day Incoming						
3 Night Outgoing						
4 Night Incoming						

- ① Day Outgoing 35 1 1 A..B #
 - ② Day Incoming 35 1 2 A..B #
 - ③ Night Outgoing 35 2 1 A..B #
 - ④ Night Incoming 35 2 2 A..B #
- or
- Ⓐ Day, Outgoing & Incoming (①, ②) 35 1 * A..B #
 - Ⓑ Night, Outgoing & Incoming (③, ④) 35 2 * A..B #
- or
- Ⓒ Day & Night, Outgoing (①, ③) 35 * 1 A..B #
 - Ⓓ Day & Night, Incoming (②, ④) 35 * 2 A..B #
- or
- Ⓔ Day & Night, Outgoing & Incoming (①, ②, ③, ④) 35 * * A..B #

Extension 36	Trunk Number					
	1	2	3	4	5	6
1 Day Outgoing						
2 Day Incoming						
3 Night Outgoing						
4 Night Incoming						

- ① Day Outgoing 36 1 1 A..B #
 - ② Day Incoming 36 1 2 A..B #
 - ③ Night Outgoing 36 2 1 A..B #
 - ④ Night Incoming 36 2 2 A..B #
- or
- Ⓐ Day, Outgoing & Incoming (①, ②) 36 1 * A..B #
 - Ⓑ Night, Outgoing & Incoming (③, ④) 36 2 * A..B #
- or
- Ⓒ Day & Night, Outgoing (①, ③) 36 * 1 A..B #
 - Ⓓ Day & Night, Incoming (②, ④) 36 * 2 A..B #
- or
- Ⓔ Day & Night, Outgoing & Incoming (①, ②, ③, ④) 36 * * A..B #

N/A

Dial Call Pickup Group Assignment

To set

A= [1]: pickup group 1
:
[4]: pickup group 4

BC...DE=(string of extension number to be added to pickup group)
[2] [*] : to assign all extensions

[4] [A] [BC...DE] [#]

Default program

(All extensions have been assigned to pickup group 1.
There are no extension assigned to pickup groups 2, 3 and 4.)

- The way to set default program is to dial (4*#).

To cancel

A= [1]: to cancel pickup group 1
:
[4]: to cancel pickup group 4

[4] [A] [#]

Description

Permits an extension user to answer other ringing telephones, provided they are in the same pickup group setting.

Conditions

- Each Pickup Group may contain all sixteen extensions.
- Each extension may belong to more than one pickup group, up to four.

Programming

1. Lift handset of extension 21.
2. Dial (4).
3. Dial pickup group number.
4. Enter the desired extension numbers to be added to pickup group.
5. Dial (#) and wait for confirmation tone.

Examples

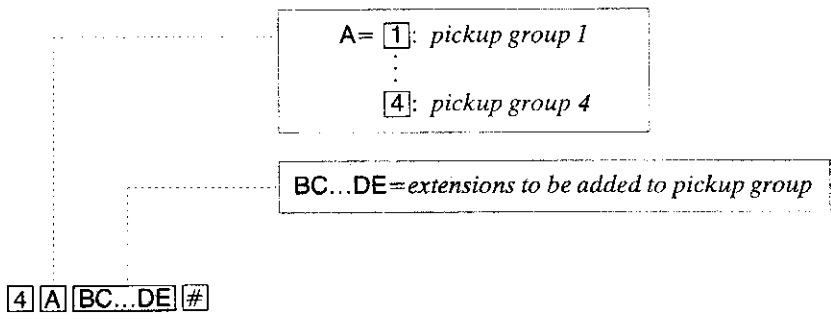
Accounting department;
Pickup group 1 is extensions 24, 25 and 26. (4 1 24 25 26 #)

Order entry department;
Pickup group 2 is extensions 32, 33, 34 and 35. (4 2 32 33 34 35 #)

Customer service;
Pickup group 3 is extensions 22, 23, 24, 25, 26, 32, 33, 34, 35, 36. (4 3 22 23 24 25 26 32 33 34 35 36 #)

Programming Table

Extension	Groups							
	Default				To make program change			
	1	2	3	4	1	2	3	4
21	x							
22	x							
23	x							
24	x							
25	x							
26	x							
27	x							
28	x							
29	x							
30	x							
31	x							
32	x							
33	x							
34	x							
35	x							
36	x							



Toll Restriction

S 21-1 #

5 25-1 #

AB=[2][*]: to assign the same on all 16 extensions.
 [2][1]: to assign to extension 21 only.
 [3][6]: to assign to extension 36 only.

Class of service (see below for selection.)

[5][AB][C][#]
 3

Default program is [5][2*][1][#].

Description

Can be used to prohibit selected extensions from making long distance calls. Toll Restriction can help eliminate telephone abuse, and contribute to controlling telephone costs. There are four classes service available.

	Class of Service Selections (COS)	
	Allowed	Denied
1	all calls	
2	toll calls, local calls	international calls
* 3	local calls, selected area-codes	international telephone calls, any calls other than specific area-code programmed
4	local calls	international calls, toll calls

*For Class of Service 3, up to 10 area codes can be selected for use in toll dialing (See "Toll Restriction—Area Code Selection" on page 40).

Programming:

1. Lift handset of extension 21.
2. Dial (5).
3. Enter the extension number.
4. Select the Class of Service.
5. Dial (#) and wait for confirmation tone.
6. Repeat above procedure to assign the Class of Service to all extensions.
7. Hang up.

Example:

To prohibit international calls on extension 28 but allow local and toll calls enter:
 (5 28 2 #)

To prohibit international calls and toll calls on extension 29, 30 and 31 but allow local calls:
 (5 29 4 #)
 (5 30 4 #)
 (5 31 4 #)