FX - 207 INSTRUCTION MANUAL

FX - 207

Feature Telephone Exchange System

KCE Technology Corporation

Contents

INFORMATION TO USER

WARNING:

This equipment has been tested and found to comply with the limits for a CLASS B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions contained in this manual, may cause harmful interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

   * Reorient or relocate the receiving antenna
   * Increase the separation between the equipment and the receiver.
   * Connect the equipment into an outlet on a circuit different from that of the receiver.
   * Consult the dealer or an experienced audio television technician.

Note: Connecting this device to peripheral devices that do not comply with CLASS B requirements or using an unshielded peripheral data cable could also result in harmful interference to radio or television reception.

The user is cautioned that any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

To ensure that the use of this product does not contribute to interference, it is necessary to use shielded I/O cables.

Installation

Please read the following warnings before installing FX-207:

CAUTION
1. Never install telephone wiring during a lightning storm.
2. Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
3. Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
4. Use caution when installing or modifying telephone lines.

For Wall Mounting

1. Do not attach the power supply cord to any building surface.
2. The wall must be able to support the weight of FX-207.
3. Please use the same-sized screws (#6), if the screws other than the ones supplied are used.

System Connection

Doorphone

To phone company

Doorphone Adaptor

Radio

RJ-11

FX - 207

Feature Telephone Exchange System

7

DB-9
RS-232

AC

Appliances

Answering
Machine

Phone Report Data

FAX
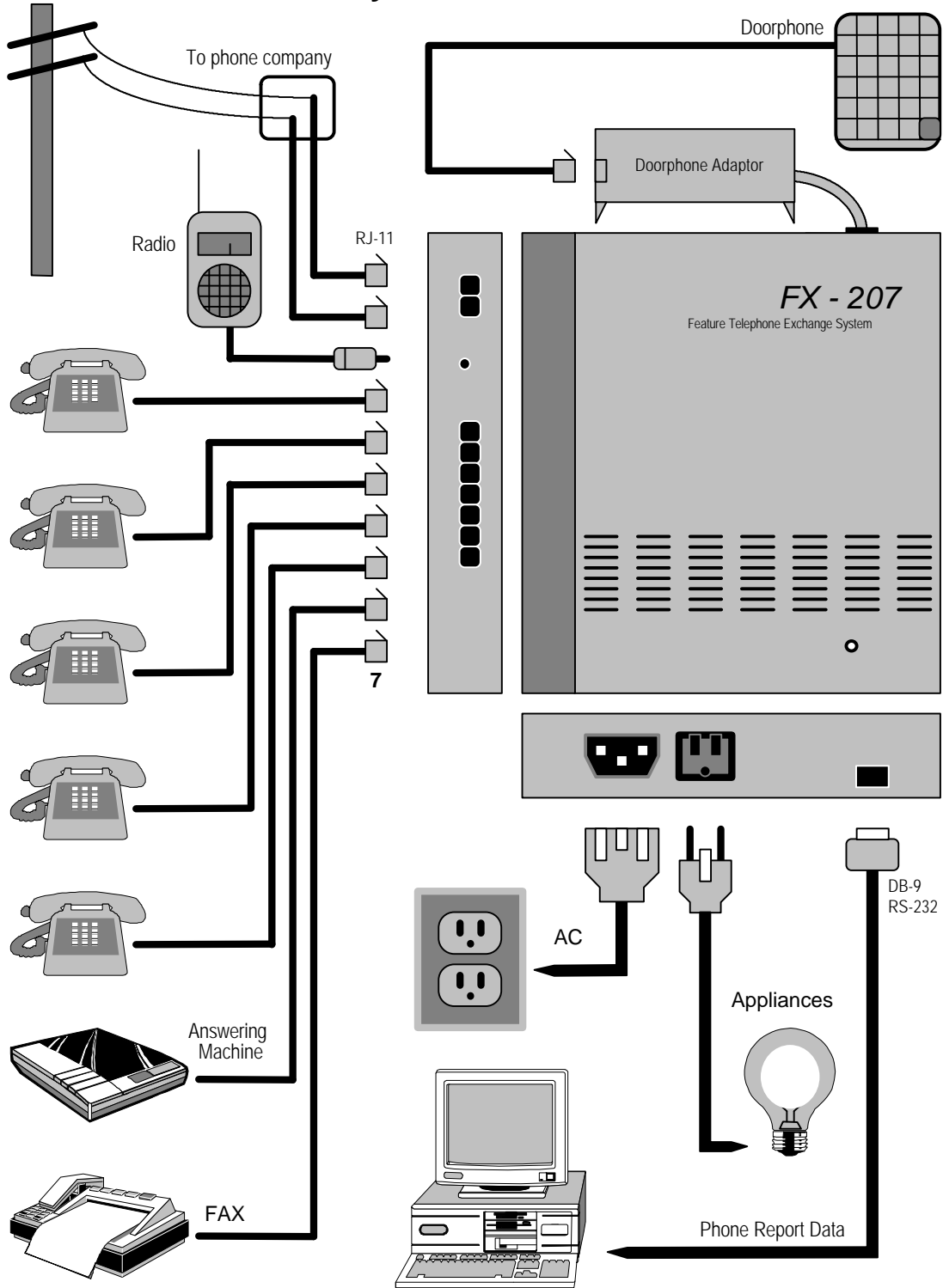
Note: If only one telephone line used, please connect it to CO (Central Office) Line 9 which is the primary external line.

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4.5 inch

#6 Screw

(back side)

Wall Mount

FX - 207

Ceiling Wiring

FX - 207

Floor Wiring

Terminal Box

Doorphone

Adaptor
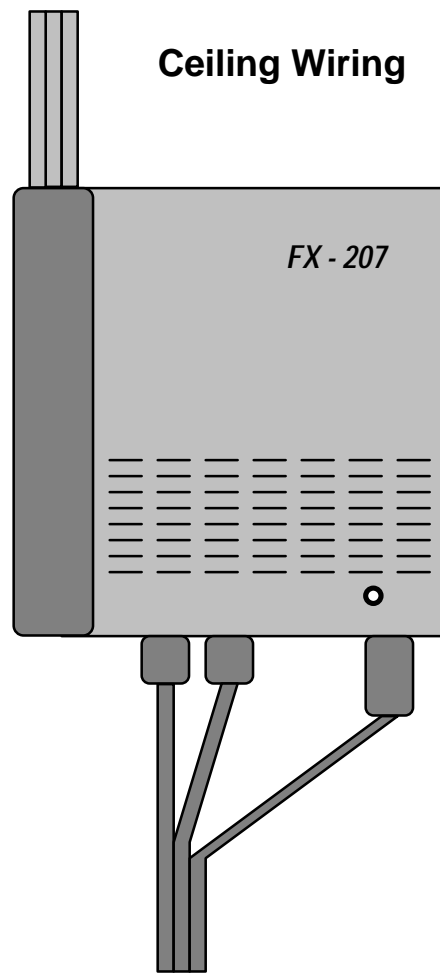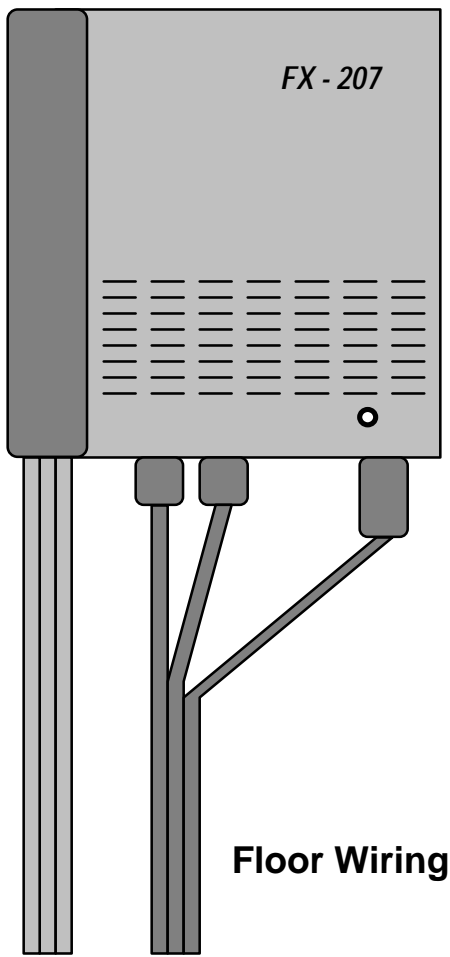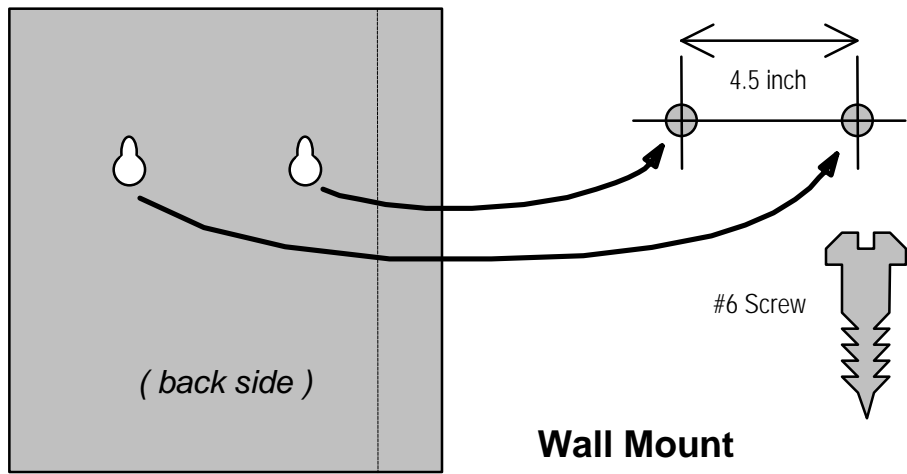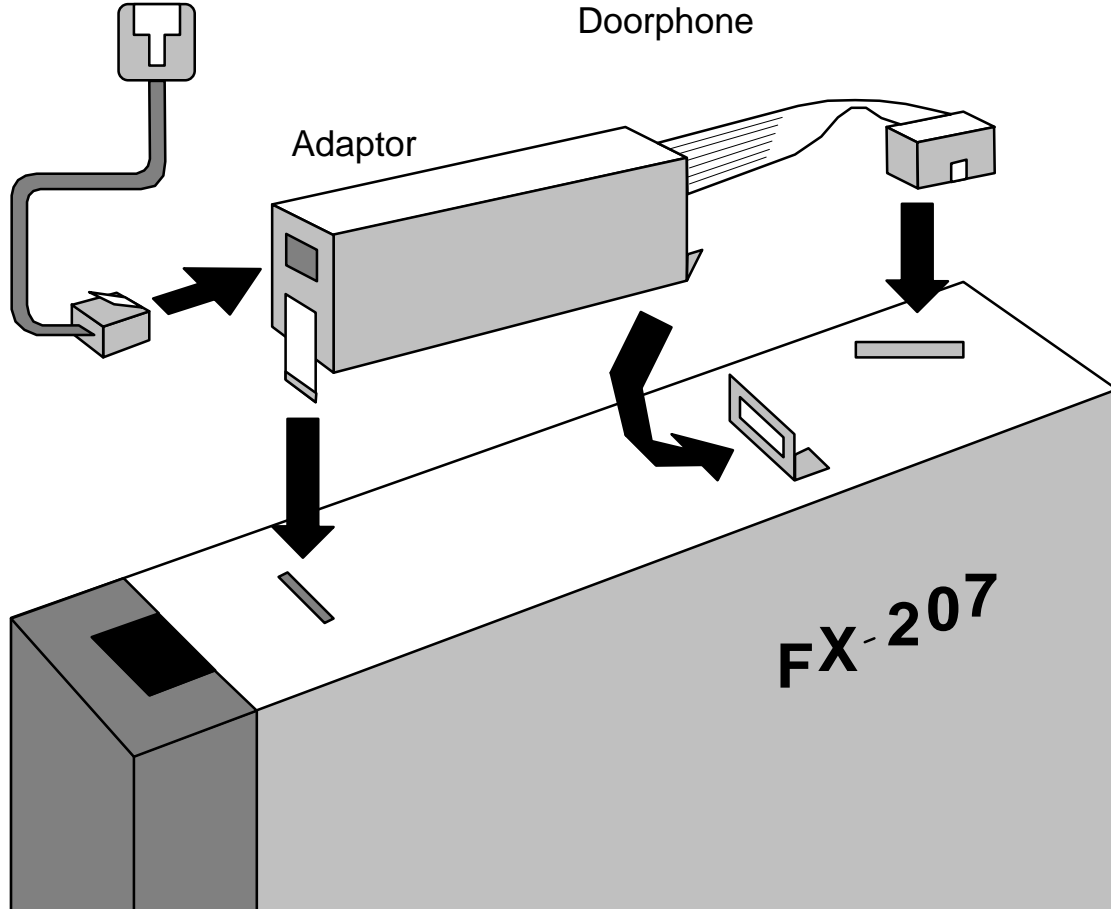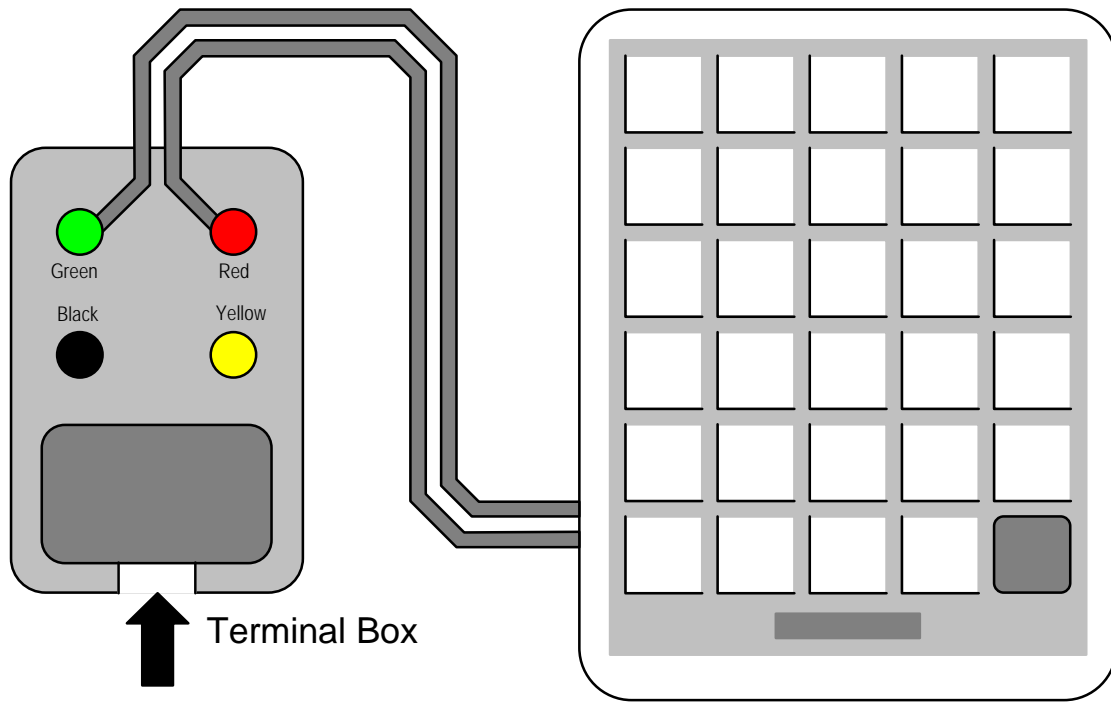
FX-207

Doorphone Installation

System Convention

Special Keys

FX-207 supports both tone telephones and rotary telephones. Since there are two keys, * and #, that are not available on rotary telephones, special key sequences are designed in place for such keys. The following conventions are very important while using rotary telephones:

Tone Phone	Rotary Phone
*	self-number[1]
#	flash hookswitch[2]

   1. Self-number means the number of the extension being used.
      Example: If you are using extension 5, then the self-number is 5.
   2. Exception: In "Call Pickup" function, the # key has other replacement. Please refer to " Call Pickup" for details.

Special Tones

FX-207 has various tones which represent distinct meanings in different occasions.

Tone Name	Pattern	Meaning
Confirmation Tone	2 Short Beeps	When doing system programing or station programming, two short beeps are to confirm the data or instruction entered by you is correct .
Input Acceptance	Short Beep	When entering the function code, the system will respond with short beeps to confirm the acceptance of the code entered. The short beeps will continue while waiting for the next input.
Call Waiting Tone	Short Beep	Short beep tone beeping every 6 seconds during the conversation means an incoming call is waiting on the line.

Definitions

CO Line	The external line. CO is the abbreviation of Central Office.
Voice Announcement	The greeting message. It is recorded by the user and used to direct outside caller to select a destination party.
Extension	The internal line. Extension and station are interchangeable.

Power/Voice Indicator

FX-207 has a red LED light to indicate System Power and Auto Attendant statuses. The following LED indications have different meanings:

1. LED Light Is Off
   The system is not properly connected to the power source.

2. LED Light Is Blinking Fast
   The system will automatically execute self test whenever it is powered on. If there is any system error found during the test, the red light will blink at the rate around 3 times per second.

3. LED Light Is Blinking Slowly
   When the red light is blinking slowly (once every other second), it means:
   . the system is working but the voice announcement is not recorded, or
   . the Auto Attendant function is turned off.
   For details, please refer to "Recording Voice Announcement" and "Cancelling Voice Announcement".

4. LED Light Is On
   Once the voice announcement is recorded, the red light stops blinking and stays on until the Auto Attendant function is deactivated.

Auto Attendant

Auto Attendant is a function that the greeting message, pre-recorded by the user, directs the caller to select a destination party without operator's assistance. It is an efficient and cost effective way to process incoming calls.

To activate Auto Attendant function, you need to record voice announcement to FX-207. **Once the installation is completed, the next things you should do are:**

1. Assign and connect extensions.
2. Record the greeting message to activate the Auto Attendant function.

For how to record voice announcement, please refer to "Recording Voice Announcement".

System Security

To protect FX-207 from unauthorized access, the system provides the Password Validation feature for security purpose. Password Validation may be required when you implement System Programming and special features. (Please refer to "Password Validation" for details.)

There is no preset password. For security purpose, you may want to enter a password to activate the password protection function. (Please refer to "Setting New Password" for details.)

Power Failure

When the power failure occurs, FX-207 will automatically connect <u>CO Line 9</u> to <u>Extension 1</u> to maintain one line working. Once the power outage occurs, voice recording, system setup and all other features are lost.

<u>System Power Backup</u>
A backup power supply is required to keep the system working in the event of power failure. Most of the Uninterruptable Power Supplies (UPS) available in the market can be used as backup power system. Please contact your local dealer for the selection of a proper UPS.

<u>System Memory Backup</u>
An optional rechargeable battery pack is available to maintain the system settings and greeting message intact during power outage. The battery pack can supply backup power for about 5 hours when fully charged.
Note: The battery pack is for memory backup only, not for system power backup.

External Music Source

An external music source (e.g. radio) may be connected to FX-207 for Music on Hold feature. Outside party will hear music while the call is on hold or being transferred.

Insert a two-conductors phone plug (3.5mm in diameter) into the Music input jack. The maximum input is 500mV. Adjust the sound level with the volume control of the music source. FX-207 will work with most of the radios with an Earphone output. Please contact your local dealer for further information.

To Make Calls

Outgoing Calls

To make an outgoing call you have to dial either [9] or [8] first. When you dial [9]], the system will select CO Line 9 if it is available. If CO Line 9 is not available, the system will automatically select CO Line 8. Dialing [8] will always select CO Line 8. You may designate CO Line 8 for special purposes.

How:

Regular dialing

1. Lift the handset
2. Dial [9] or [8]
3. Wait for CO dial tone
4. Dial the phone number

Note: Using a phone with Saved Number Redial (Speed Dialing or One-touch Dialing) and/or Last Number Redial, you need to enter a PAUSE between CO line number (9 or 8) and the phone number before you use those features.

Intercom Calling

Call another extension within FX-207 system.

How:

1. Lift the handset
2. Dial the extension number (1 through 7)

Paging

Make an internal paging to all extensions.

How:

1. Lift the handset
2. Dial [0] to ring all extensions (Once an extension picks up the call, all rings stop)
3. Talk to the receiver

To Answer Calls

When FX-207 detects an incoming call, the system will start playing greeting message if it is recorded and also activated. After the outside caller made a selection, say any extension number from 1 to 7, the call will be directed to that extension. If the outside caller did not make any selection, then the system will ring all extensions or ring the operator station if it has been programmed.

Ring-All

Ring-All is a ringing mode that FX-207 will ring all extensions in the following situations:
(1) No Selection Made
   When the caller did not make any selection.
(2) Call Not Answered
   After the selected extension rang about 40 seconds but still no one answered the call.
(3) 0 Button Pressed
   If the caller pressed 0 button for the operator, but no extension programmed as the operator. Please refer to "Assigning Operator Station" for operator designation.

Note: While in Ring-All mode, the system will alternately ring odd number extensions first, then ring even number extensions for total of 90 seconds.

Answering a Call

How:
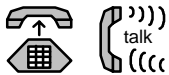
1. Lift the handset

Call Pickup
Any extension can answer any ringing extension.

How:

or

1. Lift the handset
2. Dial [#] or [self-number55] if using a rotary phone

Holding Calls

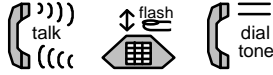You may put an outside caller on hold while transferring the call or waiting for service.
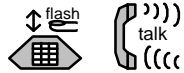
How:

To put a call on hold

1. Flash the hookswitch
2. Will hear system dial tone, the call is on hold

To retrieve a call on hold

1. Flash the hookswitch, connection resumed

Transferring Calls

Outside calls may be transferred to any other extension.

How:

Notify the other extension
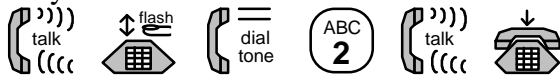
1. Flash the hookswitch to put the outside caller on hold
2. Will hear system dial tone, then dial the extension number
3. Talk to the receiver
4. Hang up, the call is transferred

Transfer without notifying the other extension

1. Flash the hookswitch to put the outside caller on hold
2. Will hear system dial tone, then dial the extension number
3. Hang up, call is transferred

Conference Call

Allows a conference call among 1 external line and 2 internal extensions.

How:

1. Flash the hookswitch to put the outside party on hold
2. Will hear system dial tone, then dial the extension number
3. Talk with the receiver
4. Flash the hookswitch, all 3 parties are in conference

Call Waiting

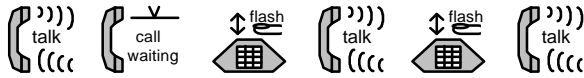Call waiting tone beeping during a conversation indicates there is an incoming call waiting. User may switch between two outside parties. While the conversation with one of the outside parties terminated, user needs to hang up the phone to release the external line. After the phone was hung up, it will ring again reminding there is another party still on hold.

How:

1. Will hear call waiting tone (short beep)
2. Flash the hookswitch to put the 1st party on hold
3. Talk to the 2nd party
4. Flash the hookswitch to alternatively talk to either party

5. Once the conversation with one of the parties terminated:
(1) Replace the handset and wait for Ring-Back
(2) Lift the handset and talk to the party on hold

Call Splitting with Two External Lines

Allows an user to switch between two outside parties. While the conversation with one of the outside parties terminated, the user needs to hang up the phone to release the external line. After the phone was hung up, it will ring again reminding there is another party still on hold.

How:

1. Flash the hookswitch to put the 1st party on hold
2. Dial [9] or [8] to make an outside call on 2nd external line
3. Talk to the 2nd party
4. Flash the hookswitch to put the 2nd party on hold
5. Talk to the 1st party
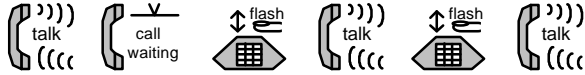6. Flash the hookswitch to alternatively talk to either party

7. Once the conversation with one of the parties terminated:
(1) Replace the handset and wait for Ring-Back
(2) Lift the handset and talk to the party on hold

Call Splitting with an Extension and an External Line

When two extensions are in Intercom, one extension hears the call waiting tone during the conversation, that extension user may switch between the external line and the other extension.

How:

1. Hear call waiting tone
2. Flash the hookswitch to put the 1st party (other extension) on hold
3. Talk to the 2nd party (outside caller)
4. Flash the hookswitch to put the 2nd party on hold
5. Talk to the 1st party
6. Flash the hookswitch to alternatively talk to either party

Doorphone

FX-207 system supports Panasonic Doorphone (KX-T30865) and Doorphone Adapter (KX-T30860D). If a door bell is pressed, system will ring all unbusy extensions. The ring pattern is one long ring following with 2 short rings.

Note: A control feature is reserved to support compatible electronic door lock in the future.

Answering Doorphone

How:

1. Lift the handset
2. Talk to the visitor

Calling Doorphone

User may call the Doorphone from any extension. Once the calling extension hangs up the phone, the conversation is terminated.

How:

1. Lift the handset
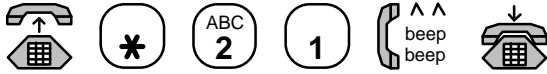2. Dial [*51]
3. Talk to the receiver

Convenient Station Programming

Do Not Disturb
Each extension can be individually programmed to block calls.

How:
To turn on (Do Not Disturb function enabled)

[handset up] (✱) (ABC 2) (1) [beep beep] [handset down]

  1. Lift the handset
  2. Dial [*21]
  3. Wait for confirmation tone
  4. Hang up

To turn off (Do Not Disturb function disabled)

[handset up] (✱) (ABC 2) (OPER 0) [beep beep] [handset down]
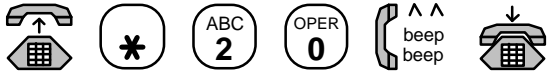
  1. Lift the handset
  2. Dial [*20]
  3. Wait for confirmation tone
  4. Hang up

Extension Excluded from Ring-All
User may set individual extension not to ring during Ring-All. The default setting for Extension 7 is that it will not ring when in Ring-All mode. To exclude a particular extension from Ring-All, user needs to use that extension to program it.

How:
To exclude an extension

[handset up] (✱) (DEF 3) (OPER 0) [beep beep] [handset down]
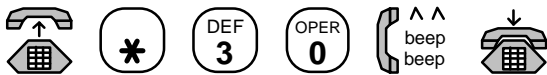
  1. Lift the handset
  2. Dial [*30]
  3. Wait for confirmation tone

Extension Included in Ring-All

Once an extension excluded from Ring-All, user may reset the extension to ring when Ring-All occurs. The default setting is that all extensions, except extension 7, will ring during Ring-All. To include a particular extension in Ring-All, user needs to use that extension to program it.

How:

To include an extension

1. Lift the handset
2. Dial [*31]
3. Wait for confirmation tone

Setting Call Waiting Function

Each extension can be individually programmed to turn Call Waiting function On, Off, or Off Once Only. Call Waiting On is the default setting.

How:

To turn on (Call Waiting function enabled)

1. Lift the handset
2. Dial [*11]
3. Wait for confirmation tone
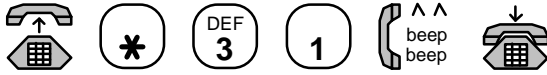4. Hang up

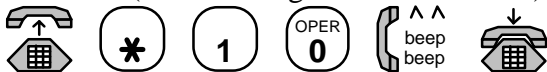To turn off (Call Waiting function disabled)

1. Lift the handset
2. Dial [*10]
3. Wait for confirmation tone
4. Hang up.

To turn off once only (Call Waiting function disabled for current call only)

1. Lift the handset
2. Dial [*12], Call Waiting function disabled
3. Wait for confirmation tone
4. Dial [9] or [8]
5. Dial the phone number
6. Hang up, Call Waiting function automatically enabled again

System Programming

Setting New Password

There is no preset password. Whenever the system is powered up or restarted, the password is reset to the default (i.e., no password). If there is a need to protect the system setup from unauthorized access, user may program a new password into the system. The password can be 1 to 4 digit long.

How:

1. Lift the handset
2. Dial [*6xxxx#], nnnn represents the new password (e.g. 4321)
3. Wait for confirmation tone
4. Dial [xxxx#] to verify the new password
5. Wait for confirmation tone

Password Validation

User needs to enter the password whenever accessing the functions protected by the password.

How:

1. Lift the handset
2. Dial [*6xxxx#], xxxx represents the chosen password (e.g. 4321)
3. Wait for confirmation tone

Cancelling Password

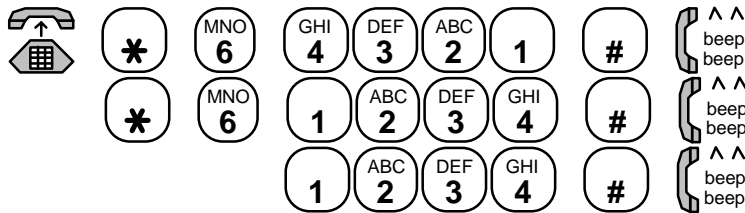User may disable the password feature if the password protection is not needed.

How:

1. Lift the handset
2. Validate the password
3. Wait for confirmation tone, then hear system dial tone
4. Dial [*6##]
5. Wait for confirmation tone

Changing Password
Validate the password first then enter a new password.

How:

1. Lift the handset
2. Validate the password (e.g. 4321)
3. Wait for confirmation tone, then hear system dial tone
4. Dial [*6xxxx#], nnnn represents the new password (e.g. 1234)
5. Wait for confirmation tone
6. Dial [xxxx#] to verify the new password (e.g. 1234)
7. Wait for confirmation tone

Recording Voice Announcement
User may record any greeting message (up to 40 seconds) by using telephone on any extension. Once the message recorded, the Auto Attendant is automatically activated.

How:
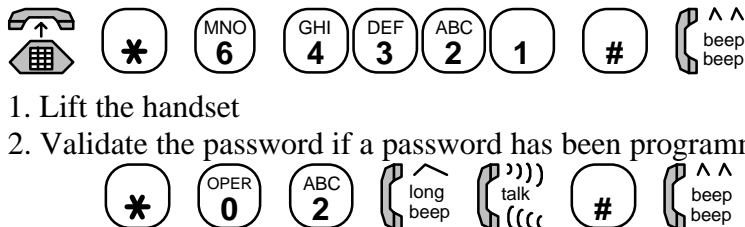
1. Lift the handset
2. Validate the password if a password has been programmed in, otherwise go to step 3

3. Dial [*02]
4. System responds with a long tone, start recording at the end of the beep tone
5. Dial [#] to end recording
6. Wait for confirmation tone

Example for Greeting Message:
   Welcome to ABC company, the company of technology.
   For Sales Department press 1 now, for Customer Service press 2 now,
   for Accounts Payable press 3 now, for Accounts Receivable press 4 now
   for Technical Support press 5 now, for Information press 6 now,
   or please stay on the line for assistance. If the line is busy or no answer,
   this recording will repeat again, thank you!

You may make up any greeting message you like.

Playback of Voice Announcement

How:
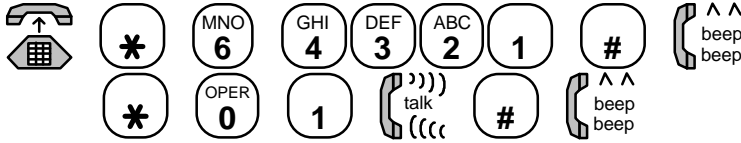
1. Lift the handset
2. Dial [*01]
3. System plays back the recorded message
4. Dial any number to stop

Activating Voice Announcement

User may re-activate Auto Attendant function after it was turned off.

How:

To enable Auto Attendant
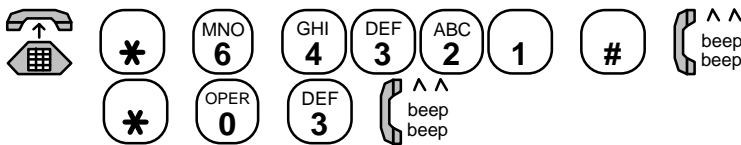
1. Lift the handset
2. Validate the password if a password has been programmed in, otherwise go to step 3
3. Dial[*03]
4. Wait for confirmation tone

Cancelling Voice Announcement

User may temporarily turn off Auto Attendant function. Whenever the Auto Attendant is disabled, the incoming call will bypass the system and either ring the operator or ring all extensions which depends on the system setup. When there is no one present to answer the phone for a long period of time, user may like to turn off Auto Attendant to save caller's telephone expenses.

How:

To disable Auto Attendant

1. Lift the handset
2. Validate the password if a password has been programmed in, otherwise go to step 3
3. Dial [*04]
4. Wait for confirmation tone

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Setting Voice Announcement on Any CO Line

User may program the system to enable/disable the voice announcement on any individual CO Line. Once the Voice Announcement is disabled on a CO Line, all the incoming calls to that particular CO Line will bypass the system and either ring the operator station or ring all the extensions. With this feature, you may designate a CO Line with Auto Attendant activated as your office phone line or for other special purposes by enabling the Voice Announcement on that particular CO Line.

The following are the command sequences for setting the Voice Announcement on the CO lines:

Command Sequence	CO Line 9	CO Line 8
✱ 0(OPER) 3(DEF)	Enable	Enable
✱ 0(OPER) 4(GHI)	Disable	Disable
✱ 0(OPER) 3(DEF) ✱ 0(OPER) 8(TUV)	Enable	Disable
✱ 0(OPER) 4(GHI) ✱ 0(OPER) 8(TUV)	Disable	Enable

How:

To enable Auto Attendant on a CO Line 9 only

☎ ✱ 6(MNO) 4(GHI) 3(DEF) 2(ABC) 1 # [beep beep]
✱ 0(OPER) 3(DEF) [beep beep] ✱ 0(OPER) 8(TUV) [beep beep]
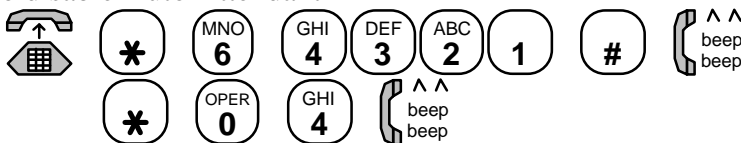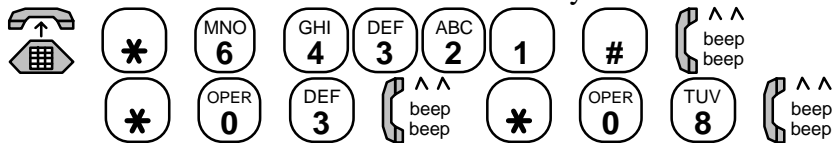
1. Lift the handset
2. Validate the password if a password has been programmed in, otherwise go to step 3
3. Dial [*03*08]
4. Wait for confirmation tone

To enable Auto Attendant on CO Line 8 only
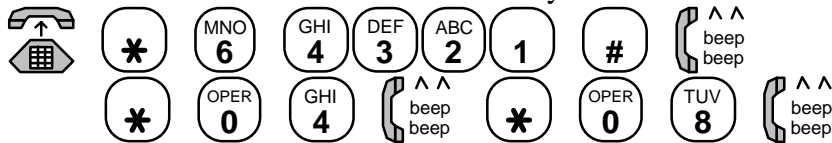
☎ ✱ 6(MNO) 4(GHI) 3(DEF) 2(ABC) 1 # [beep beep]
✱ 0(OPER) 4(GHI) [beep beep] ✱ 0(OPER) 8(TUV) [beep beep]
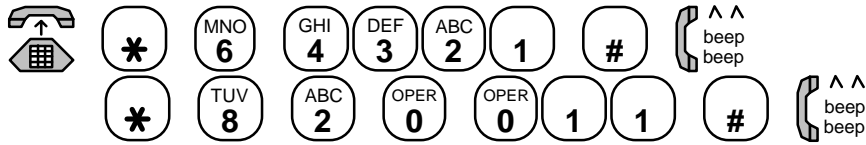
1. Lift the handset
2. Validate the password if a password has been programmed in, otherwise go to step 3
3. Dial [*04*08]
4. Wait for confirmation tone

Call Restriction

Unauthorized toll call access may be prevented by Call Restriction function. Total 8 groups of the selected numbers (up to 6 digits) may be programmed to the system.
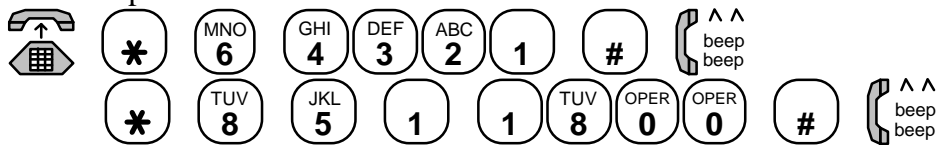
How:

To set a blocked number

[handset] [✱] [6 MNO] [4 GHI] [3 DEF] [2 ABC] [1] [#] ^^ beep beep

[✱] [8 TUV] [2 ABC] [0 OPER] [0 OPER] [1] [1] [#] ^^ beep beep

1. Lift the handset
2. Validate the password
3. Dial [*8g0nnnn#], where g is the group number which may be 1 to 8, 0 is to block and nnnn is the prefix (up to 6 digits) of the number to be blocked
4. Wait for confirmation tone

Example: Dial [*820011#] to block all international calls starting with 011 where 2 is the group number and 011 is the prefix assigned to group 2.

To set exception of a blocked number

[handset] [✱] [6 MNO] [4 GHI] [3 DEF] [2 ABC] [1] [#] ^^ beep beep

[✱] [8 TUV] [5 JKL] [1] [1] [8 TUV] [0 OPER] [0 OPER] [#] ^^ beep beep

1. Lift the handset
2. Validate the password
3. Dial [*8g1nnnn#], where g is the group number which may be 1 to 8, 1 is to unblock and nnnn is the prefix (up to 6 digits) of the number to be unblocked
4. Wait for confirmation tone

Example: Dial [*8501#] to block all long distant calls starting with 1.
Dial [*8511800#] to make 1800 as an exception number not to be blocked.

To clear all blocked numbers

[handset] [✱] [6 MNO] [4 GHI] [3 DEF] [2 ABC] [1] [#] ^^ beep beep

[✱] [8 TUV] [0 OPER] ^^ beep beep
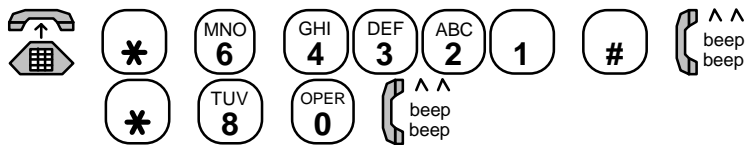
1. Lift the handset
2. Validate the password
3. Dial [*80]
4. Wait for confirmation tone

Call Restriction Override

Any authorized user may call the restricted area by entering password to bypass the blocked number.

How:

1. Lift the handset
2. Validate the password
3. Dial [9] or [8]
4. Wait for dial tone
5. Dial telephone number

Flexible Settings for No Answer/No Selection

FX-207 provides 3 flexible settings handling unanswered incoming calls or incoming calls that caller did not make any selection. Three different settings were designed to meet user's various needs.

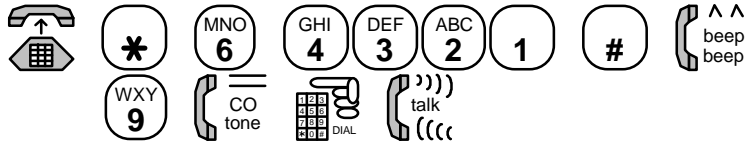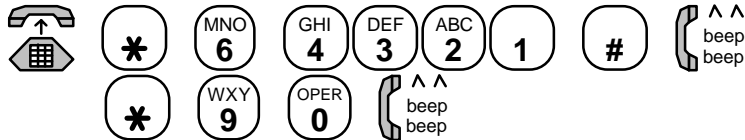### Ring-All
Whenever caller did not make any selection or no one answered the incoming call, the system will ring all extensions.
Note: Ring-All is the default setting.

How:

1. Lift the handset
2. Validate the password if a password has been programmed in, otherwise go to step 3
3. Wait for confirmation tone, then hear system dial tone
4. Dial [*90]
5. Wait for confirmation tone

Assigning Operator Station
User may assign a particular extension as the operator. Whenever the calling party did not make any selection or no one answered the call, the incoming call will be routed to the operator.
Note: Once the extension was assigned as an operator station, then both "Do Not Disturb" and "Call Waiting" functions were also disabled automatically.

How:

1. Lift the handset
2. Validate the password if a password has been programmed in, otherwise go to step 3
3. Dial [*9x], x represents the extension number to be assigned as the operator
4. Wait for confirmation tone
Example: Dial [*95] will set extension 5 as the operator station.

Repeating Voice Announcement

User may set the system to replay the voice announcement when the selected extension did not answer the call. If the caller did not make any selection after the voice announcement replayed, the system will disconnect the incoming call automatically to free the CO lines for other calls.
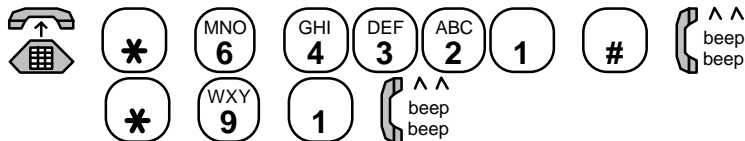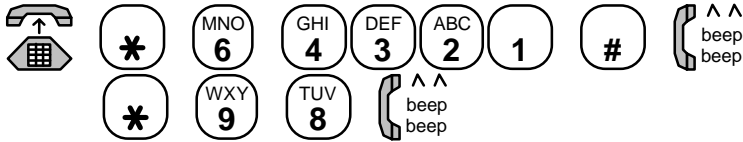
How:

1. Lift the handset
2. Validate the password if a password has been programmed in, otherwise go to step 3
3. Dial [*98]
4. Wait for confirmation tone

Special Features

Automatic FAX Connection

If an incoming call is from a FAX with a high pitch tone beeping every 3 seconds, the system will stop playing voice announcement and automatically route it to extension 7 which is the dedicated FAX line.   Whenever FX-207 is powered on or restarted, extension 7 is set not to ring (i.e., default setting).

Note: 1. When a regular phone is used on extension 7, user may need to program extension 7 to ring during Ring-All. Please refer to " Extension Included in Ring-All" for details.

2. While Auto Attendant function is turned off, but a FAX machine is still to be used, user needs to program extension 7 to ring so that it may pick up incoming FAX signal.

How:

To exclude from Ring-All

1. Lift the handset
2. Dial [*30] to defeat ringing extension 7 when Ring-All
3. Wait for confirmation tone

Note: This is also a station programming, so please program on extension.

To transmit FAX

1. Dial [9] or [8]
2. Press the PAUSE key
3. Dial the destination FAX number

Remote Control on Appliance

FX-207 provides one built-in AC outlet for the appliance hookup. User may dial in from remote to turn the appliance on or off.

How:

To turn on from an extension

1. Lift the handset
2. Dial [*41] to turn on the appliance
3. Wait for confirmation tone

To turn off from an extension

1. Lift the handset
2. Dial [*40] to turn off the appliance
3. Wait for confirmation tone

To turn on by dialing in from outside
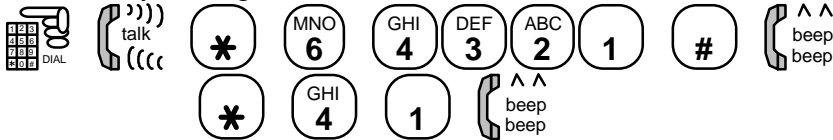
1. Dial the phone number
2. Hear the voice announcement
3. Validate the password if a password has been programmed in, otherwise go to step 3
4. Dial [*41] to turn on the appliance
5. Wait for confirmation tone

To turn off by dialing in from outside

1. Dial the phone number
2. Hear the voice announcement
3. Validate the password if a password has been programmed in, otherwise go to step 3
4. Dial [*40] to turn off the appliance
5. Wait for confirmation tone

Setting Ring Patterns

FX-207 has two different ring patterns, US Standard and British Standard. The default setting for the CO lines is US Standard and for the internal lines is British Standard. The settings of the CO lines and internal lines are always reversed.

How:

One Long Ring (US Standard)
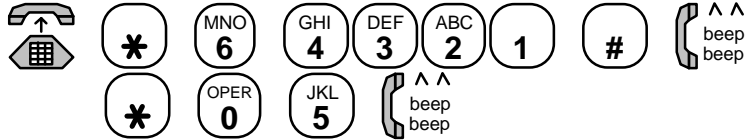
1. Lift the handset
2. Validate the password if a password has been programmed in, otherwise go to step 3
3. Dial [*05]
4. Wait for confirmation tone

Two Short Rings (British Standard)

1. Lift the handset
2. Validate the password if a password has been programmed in, otherwise go to step 3
3. Dial [*06]
4. Wait for confirmation tone

Adjusting Hookswitch Flash Time

The hookswitch flash time can be adjusted to accommodate various telephone communication applications. The range of flash time is from 0.1 to 1.2 second in 0.1 second increment. The default flash time is 0.6 second.

How:
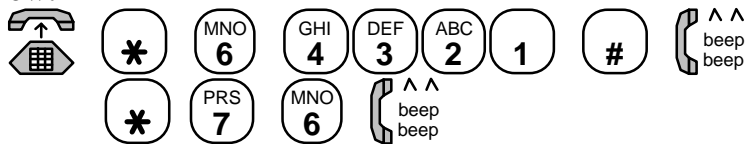
1. Lift the handset
2. Validate the password if a password has been programmed in, otherwise go to step 3
3. Dial [*7v], v represents the number 0 through 9, * and # (see table below)
4. Wait for confirmation tone

Key	1	2	3	4	5	6	7	8	9	0	*	#
Flash Time (second)	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2

Sending Flash to External Line

FX-207 can send a Flash signal to the external line which may be used to access special features of the phone company (such as Call Waiting and Three-Way Calling) or other PABX systems.

How:
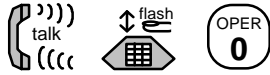
1. Flash hookswitch, while talking to an outside caller
2. Press 0

Computer/Printer Interface

With a built-in serial port the FX-207 system is capable to communicate with PC or printer to generate a call report. The optional program provides easy-to-use functions for phone management.

Call Report Format

1. I : Internal line number 1 to 7
2. E: External line number
    A is external line 8, B is external line 9, and C is door phone.
3. Call Duration: Timing of outgoing call, from 000 up to 255 minutes
4. PhoneNumber: Phone number of outgoing call

System Malfunction

If the system does not operate properly, use the following steps to clear the problem.

System Reset
Whenever the system does not function properly but the system dial tone still can be heard, please try the System Reset to restart. All the system settings still remain intact while using the System Reset to clear the problem.
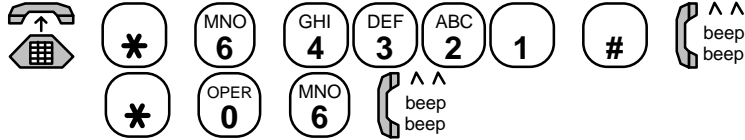
How:
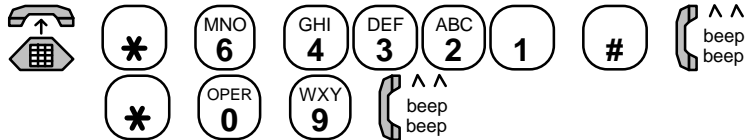
1. Lift the handset
2. Validate the password if a password has been programmed in, otherwise go to step 3
3. Dial [*09]
4. Wait for confirmation tone

Powering Off the System
If the System Reset still could not reset the system, user shall power off the system to clear the problem. If a Battery Pack is used for memory backup, then the Battery Pack also needs to be removed from the system to clear the memory.

How:

Battery Pack not used
1. Remove the power cord from the power outlet to reset the system
2. Plug the power cord into the power outlet to restart the system

Battery Pack used
1. Remove the power cord from the power outlet
2. Remove the Battery Pack from the slot to reset the system
3. Insert the Battery Pack into the slot
4. Plug the power cord into the power outlet to restart the system

Questions and Answers

Q. Can I dial out during power outage?
A. Yes, you can use extension 1 to dial out. FX-207 will connect CO line 9 to extension 1 automatically when power outage occurs. You have one external line and one extension working during power outage.

Q. Can I connect an answering machine to my extension?
A. Yes, you can connect an answering machine to your extension so you will not miss a call when you are unable to answer it.

Q. Can I use Speed Dial or Redial feature on my telephone?
A. Yes, you can use Speed Dial or Redial feature. When you program a Speed Dial number on you phone set, you need to add a CO line number (9 or 8) and a PAUSE before the phone number. For Redial, you need to enter a PAUSE between CO line number (9 or 8) and the phone number.

Q. Can I still be able to pick up the call once I transferred it to another extension?
A. Yes, you still can pick up the call again as long as no one answers it.

Q. Can I keep the special call services from telephone company, like Call Waiting or Three-Way Calling?
A. Yes, you can still have the Call Waiting or Three-Way Calling services. FX-207 provides a special feature called "Sending Flash to External Line" for user to access the special call services. Please refer to "Sending Flash to External Line" for details.

Q. Is there anyway that the incoming calls can bypass the system and directly ring the extension to save callers' phone expenses?
A. Yes, you may turn off the Auto Attendant function so that the incoming calls will not be picked up by the system and will be routed to the extensions directly.

Q. Are any functions changed after an extension was assigned as the operator station?
A. Yes, both Do Not Disturb and Call Waiting functions of that extension are disabled once an extension was assigned as the operator station.

Q. Which extension will the system ring when the operator station is busy, but have second incoming call also for it?
A. When the operator station is busy but the second incoming call is also looking for the operator, the system will ring all other extensions instead of ringing the operator station.

Q. What if I want to use one of the extensions for data transfer through a modem?

A. If you plan to do data transfer and you have the Call Waiting service on your phone line, you will need to disable the Call Waiting during your communication session. For information about how to disable your Call Waiting service you will need to contact your phone company. FX-207 provides Call Waiting feature which you also need to disable it during your communication session. For how to disable Call Waiting function please refer to "Setting Call Waiting Function".

    Note: When using a computer to dial out, you also need to add a PAUSE between CO line number (9 or 8) and the destination's phone number.

Q. Why I got system busy tone when I wanted to make a call?

A. You will get system busy tone when the system is busy in servicing an incoming call or other extension. When you get system busy tone, please hang up the phone, wait a moment, and then try again. You shall get system dial tone, once the system becomes available.

Q. What are so special about Ring-All?

A. When you hear the system alternately ringing odd number extensions first and then even number extensions, you know the system is in the Ring-All mode. From the special ringing design of the Ring-All, you can distinguish between a Ring-All and a call routed to you. When the call is a Ring-All, you may decide whether to answer the call or let others pick up the call. To answer a Ring-All call more properly, you may want to change your greeting (say, from "Hello, this is Robert" to "ABC Company"). Please refer to "Ring-All" for details.

SPECIFICATION

Capacity
    CO (External) Lines   2
    Extensions   7
    Doorphone   1
Power Supply
    AC Input   110/220 VAC ±10%, 60/50 Hz
    Power Consumption   10 − 20 W continuous, 55 peak
Dialing
    Pulse 10PPS, 60/40 break/make ratio
    Tone   standard DTMF
Connection
    Connector
        Outsides   Modular Jack (RJ-11)
        Extensions   Modular Jack (RJ-11)
        Music   two-conductors jack, 3.5 mm diameter
    Serial Port   DB-9
    Cable
        Outsides   phone wire (2 conductors)
        Extensions   phone wire (2 conductors)
    Music   two-conductors wire
Environment
    Temperature   0 − 40°C
    Relative Humidity   90% max.
Ringer Equivalence   0.7 B
Ring Generation   20 Hz, 60 Vrms at 1 REN
Transmission
    Insertion Loss   −2 dB (600 Hz − 3400 Hz)
    Cross Talk   −70 dB max.
CNG Tone Reception   1100 Hz ±5%, 0.5 sec. On, 2.5 sec. Off
DTMF Reception
    Frequency Shift   ±2.5%
    Level   −28 to −2 dBm
Dial Tone Frequency   500 Hz
Music On Hold Input   0.6 Vrms max
Appliance Load   5 A max.
Serial Communication   RS-232, 2400 Baud 8N1
Weight   2.95 kg (6.5 lb)
Dimensions   240 mm (9.5 in.) W x 285 mm (11.3 in.) D x
                         64 mm (2.5 in.) H

TELEPHONE COMPANY AND F.C.C. REQUIREMENTS AND RESPONSIBILITIES

In compliance with the requirements of Part 68 of the F.C.C. Rules and Regulations for connection of terminal system (this device is classified as terminal system) to the telephone network and for your convenience, the following information is presented:

1. Notification to the Telephone Company

Customers connection terminal equipment to the telephone network shall, upon request of the Telephone Company, inform the Telephone Company of the particular line(s) to which such connection is made, the F.C.C. registration number and (see label on bottom of unit.) ringer equivalence number of the registered terminal equipment. The REN is useful to determine the quantity of devices you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you may connect at your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area.

2. Direct connection to A Party-line or Coin-operated Telephone Line is Prohibited

3. Incidence of Harm to The Telephone lines

Should Terminal Equipment cause harm to the Telephone Network, the Telephone Company shall, where practical, notify the customer that temporary discontinuance of service may be required. However, where prior notice is not practical, the Telephone Company may temporarily discontinue service forthwith, if such action is reasonable in the circumstances. In case of such un-notified temporary discontinuance of service, the Telephone Company shall:

(a) Promptly notify the customer of such temporary discontinuance of service.
(b).Afford the customer the opportunity to correct the situation which gave rise to the temporary discontinuance.
(c).Inform the customer of the right to bring a complaint to the Commission pursuant to the procedures set out in Subpart E of Part 68 of FCC Telephone Equipment Rules.

4. Compatibility of The Telephone Network and Terminal Equipment

(a) Availability of telephone interface information.

Technical information concerning interface parameters and specifications not specified in FCC Rules, including the number of Ringers which may be connected to a particular telephone line, which is needed to permit Terminal Equipment to operate in a manner compatible with Telephone Company communications facilities, shall be provided by the Telephone Company upon customer's request.

(b) Changes in Telephone Company Communications Facilities, Equipment, Operation and Procedures.

The Telephone Company may make changes in its communications facilities, equipment, operations or procedures, where such action is reasonably required in the operation of its business and is not inconsistent with the rules and regulations. If such changes can be reasonably expected to render any customer Terminal Equipment incompatible with Telephone Company Communications Facilities, or require modification or alteration of such Terminal Equipment, or otherwise materially affect its use or performance, the customer shall be given adequate notice in writing, to allow the customers an opportunity to maintain uninterrupted service.

<u>Note</u>