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Chapter 1 Brief Introdution & Features

Introduction to TC-2000 system

TC-2000 Seires System is "Private Branch Exchange" (abbreviated as PBX), which is a Telephone System that switches calls between users on internal telephone lines while allowing other users to share a certain number of external telephone lines

Fundamental Technical Information:

We integrate in this model special-purpose telecommunication ICs from American & Japanese companies, for lower energy consumption, small size, compact appearance, disturbance resistance, high reliability, simple installation and programming.

The internal structure

Master control system

- 1.CPU is composed microprocessor, SDRAM and series-parallel conversion circuit.
- 2.DID/DTMF is composed circuits of auto-attendant, music generating, signal tone generating and audio decoding circuit.
- 3.EXT.is composed of ringing testing circuit, contra-polar testing circuit and system multi-function testing circuit.
- 4. Voice volume amplifying system, which is made of patented amplifying module that enormously, improves the communication quality.

Extension system

- 5.Extension pick-up & hang-up testing circuit
- 6.Special thunder-strike-discharging circuit & buffer circuit
- 7.Signal exchanging matrix circuit

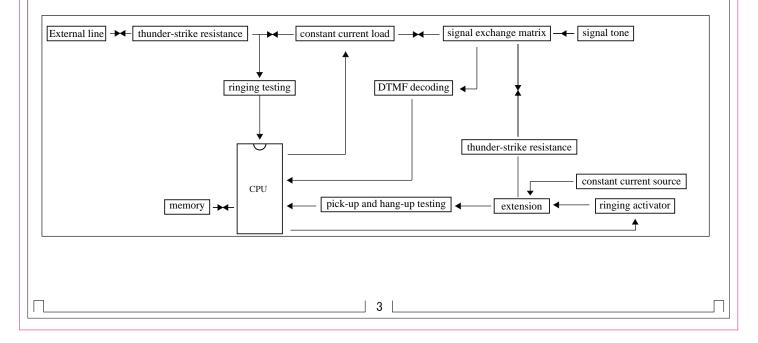
Power control system

- 8.DC48v
- 9.AC65v ringing current generating circuit

Operating Principle

The structure and its operating principle are shown in the following graph.

CO Line, thunder-strike resistance, constant current load, signal exchange matrix, signal tone, ringing testing, DTMF decoding, memory, CPU, pick-up and hang-up testing, extension, constant current source, ringing activator.



Chapter 1 Brief Introdution & Features

Features and Specifications

The TC-2000 Series are designed to provide a family and small office with low cost professional telecom service. The maximum capacity is 1 to 6 CO lines and 8 to 32 Extensions.

The Auto-Attendant Service (DISA: Direct Inward System Access) with OGM (Outgoing Message service) allows the system to make the Maximum use of the CO line.

System Features of TC-2000 Series There are number of supplementary features to indicate quality of TC-2000 Series System OGM Recording with DISA(Auto-attendant) Call Transfer & Call pickup Music on holding **Ringing Assignment** Flexible Coding Seven Level Call Restriction Call duration control Automatic distinguishes CO Lines Power Failure Transfer Three way conference Intercom dialing Multiple communication lines Caller ID Call Forwarding Doorbell and door lock Monitor and recorder Specifications 1.Capacity: CO Lines: 1 to 6 Extensions: 8 to 32 2. Exterior sockets: Conjunction for extensions, 3.Communication lines: 7 4. Transmission attributes: Extension to extension \leq 1.5dB; Extension to trunk line ≤ 2.0 dB; 5.Ringing current: 65v/50Hz; 6.Feeding current: 48v-60v/25mA; 7.Relative unbalance against ground:300Hz-600Hz \geq 40dB; $600Hz-3400Hz \ge 46dB;$ 8. Dialing mode: DTMF 9.Signal tone: CO Line: tone from local telephone company; Internal dialing tone: 450Hz, continuous wave; Extension echo signal: 450Hz, 1 second on and 4 seconds off; Extension busy signal: 450Hz, 0.3 second on, 0.3 second off; Extension confirmation signal: 450Hz, 1 second on; Extension error signal: 450Hz, 0.3 second on, 0.3 second off ;° 10. Power supply: AC220V/110V \pm 10% Power consumption: ≤15VA 11. Operational environment: Temperature: 32F-104F(0 C-40 C);

Relative humidity \leq 90%

4 |

Chapter 2 Installation & Connection

Before Installation

For easy and quick installation and connection, it is strongly recommended that the user read and follow the following instruction carefully so as not to damage the system accidentally by incorrect operation.

Safety Installation Instructions

When installing telephone wires, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons. Including the following:

1). Never install telephone wires during a lighting storm.

2). Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.

3). Never touch UN-insulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.

4). Use caution when installing or modifying telephone lines.

Installation precautions

This set is exclusively made for wall mounting or set on desk. Avoid installing in the following places (Doing so may result in malfunction, noise, or discoloration).

1). In direct sunlight, hot, cold, or humid places. (Temperature range: 0 C-40 C / 32F-104F)

2). Places in which shocks or vibrations are frequent or strong.

3). Dusty places, or places where water or oil may come into contact with the unit.

4). Near high-frequency generating devices such as sewing machines or electric welders.

5). On or near computers, telexes, or other office equipment, as well as microwave ovens or air conditioners (It is preferable not to install in the same room with the above equipment).

6). Install at least 6 feet from radios and televisions.

7). Do not obstruct area around the main unit (for reasons of maintenance and inspection be especially careful to allow space for cooling above and at the sides of the main unit).

Power Failure

In the event of power fialure, CO.1 to CO.4 will be connected to EXT.801--804 automatically. But CO.5 & CO.6 can't be used for 6 CO line unit.

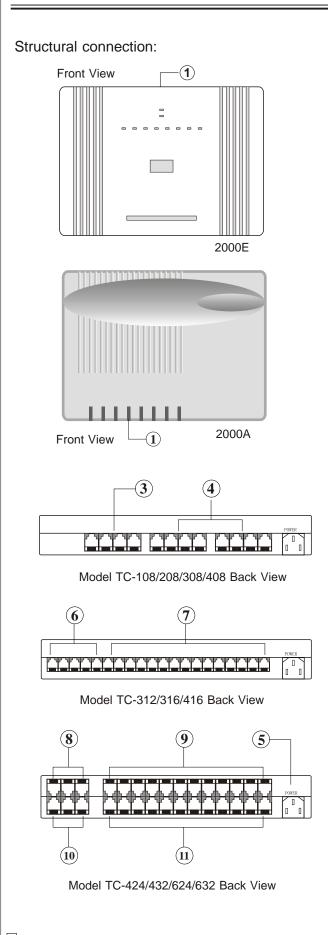
Call ID

FSK/DTMF compatible Caller ID function is successfully equipped on TC-2000 system. The steps are as below:

- 1). Go to your telecom office applying the Caller ID service.
- 2). Extension 801-808 can realize the caller ID function.
- 3). An incoming call number will be displayed on the phone with Caller ID function. But the number will disapper when you transfer the call to another extension.
- 4). For some area the Caller ID function is invalid because of the Telecom Singal of the area.

Chapter 2 Installation & Connection

Structural connection



	-2
	Left View
Name o	of parts:
1)	 Led for power supply and working state of CO lines & extensions
2	— Power supply switch
3—	— CO line and door bell port
(4)	— Extension jacks for 801 to 808
5	— Power supply jack
6	— The first 4 sockets are CO line port 1 to 4
(7)(7)	— Extension jacks for 801 to 816
8	— CO line port 4, 5 & 6
	— Extension jacks for 817 to 832
(9)	-
(9)	— CO line port 1, 2 & 3

Connecting Procedures:

- 1. Connecting CO lines & extensions to the unit:
 - Please connect the monomer-crystal with EXT. line and CO line separately;
 - 2). Make sure to avoid short circuit;
 - Connecting extensions according to the indicated extension positions and CO lines to the correspanding line ports on the unit.
- 2. Zero-load power-on inspection:
 - The operation voltage of this product is AC220V/110V±10%. Check out the voltage of local power supply. A UPS backup is highly recommended.
 - Plug in the power supply line and turn on the switch; indicating normal power supply and working state of the machine.
 - Pick up the handset of extension 801.A sharper internal dial tone indicates that the system is working normally.You can start to setup operation now.

Unlocking Programming Password

3. 0. 0 Remarks

- 3. 0. 0. 1 All the function setting must be carried out on extension 801 and un-lock first;
- 3. 0. 0. 2 All the extensions must be of double tone;
- 0. 0. 3 Press * to start setting and press # to end the setting. You don't have to hang up if something wrong occurs during the setting. You may restart the setting by simply pressing * again;
- 0. 0. 4 If extension 801 is in direct dialing out mode, you need to press * to enter the internal system, and press it again to start programming;
- 3. 0. 0. 5 When the setting is finished, a long beep indicates that the setting is done correctly and saved in the system.
 If instead an array of short chirps is heard, that would indicate an error occurred in the setting. You need to check it out and reset the system;
- 3. 0. 0. 6 All the setting involved multiple users can be carried out in a batch process mode. It will surely increase the speed and accuracy of the setting.
- 3. 0. 1. 1 Un-locking Programming Password

Format: * 01 abcd

Aun S	*01abcd#		Fair	
Pick up 801	Input * 01 abcd #	You will hear du	programming	
The defa	ult Password is 1234			
1. 2 Changing t	he Password			
mat: * 02 abcd # planation: abcd is tl	ne new password			
$\langle \cdot \rangle$			-	
1 All	*02abcd#		G m J	
Pick up 801 and un lock	Input * 02 abcd #	You will hear du	hang up	
		· (
I he syste	m must be unlocked before programm	ning.(see 3.0.1.1)		

Co Line Ringing Assignment

3. 1 CO Line Ringing Assignment

Explanation: [1] Shift to incoming calls program mode;

- [m]: CO Line port No.;
- [a, b, c, d]: The last digits of extensions(801--808);

Description: Assigns the extensions, which will ring when incoming call from CO lines is received.

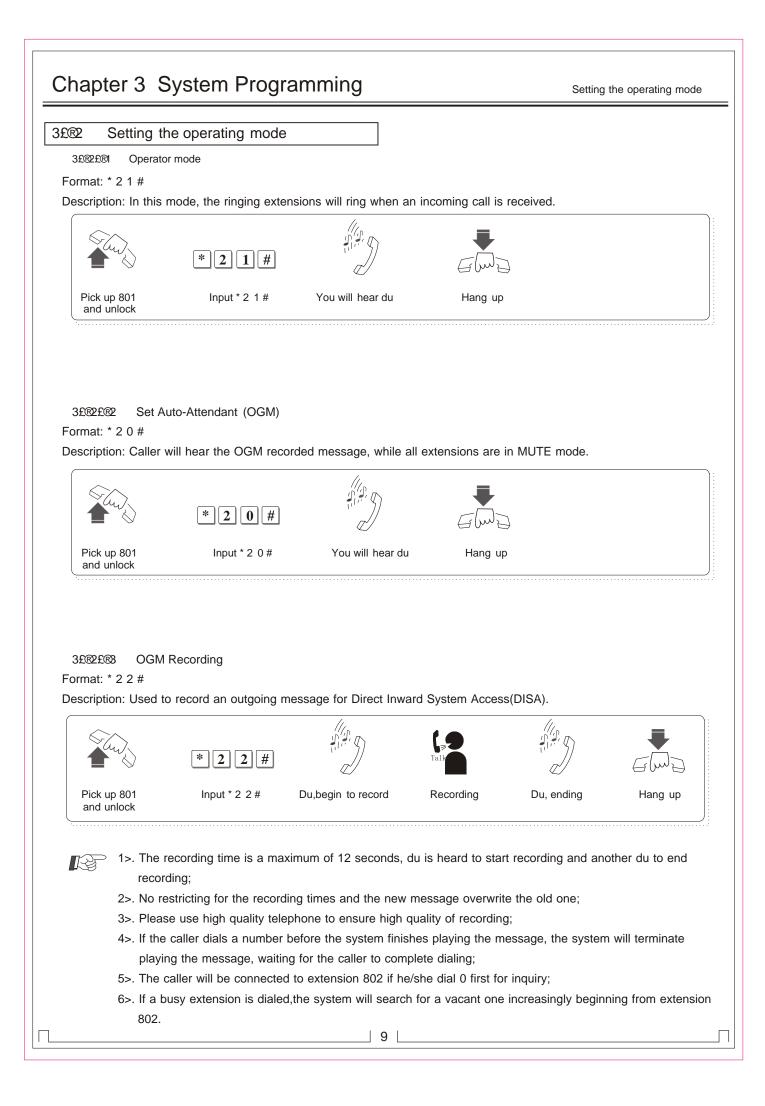
Example: If you wish extension 802 to ring from an incoming call for CO line 1, and extensions 803 and

806 to ring for CO line 2 incoming calls, then you may perform the following operation:





- 1>. The default ringing extensions are extensions 801 to 804;
 - 2>. Ringing extensions must be among extensions 801 to 808;
 - 3>. At most 8 extensions can be set to ring for one CO line, if the ringing extensions less than 8 then end with #;
 - 4>. The system must be unlocked before programming.(see 3.0.1.1)



Chapter 3 System Programming Setting the operating mode 3£®2£®4 **OGM Play** Format: * 2 3 # Description: Confirms the recorded message in the OGM recording program. 3 # 2 Pick up 801 Input * 2 3 # Du,starting Playing Du,ending Hang up and unlock 3£®2£®5 Music on-holding Format: * 2 4 # Description: Allows to hear music on holding melody or to test the quality of telephone unit. # 4 Du,ending Pick up 801 Input * 2 4 # Du,starting Playing music Hang up and unlock 3£R2£R6 The DISA optional: A1. Format: * 25 1 # At auto-attendant mode, if the C.O line doesn't dial the extension number in 8 seconds after hearing the OGM, then the C.O line will be cut off. A2. Format: * 25 2 # At auto-attendant mode, if the C.O line doesn't dial the extension number in 8 seconds after hearing the OGM, the C.O line will be transferred to extension 802. B1. Format: * 25 3 # At auto-attendant mode, if the C.O line dials the extension number but the called extension doesn't answer the call then the C.O line will be cut off. B2. Format: * 25 4 # At auto-attendant mode, if the C.O line dials the extension number but the called extension doesn't answer the call then the C.O line will be transferred to extension 802. Four kinds of combination for DISA: A1B1, A1B2, A2B1, A2B2. The default mode is "A1" and "B1". 10

3£®3 Set CO Line

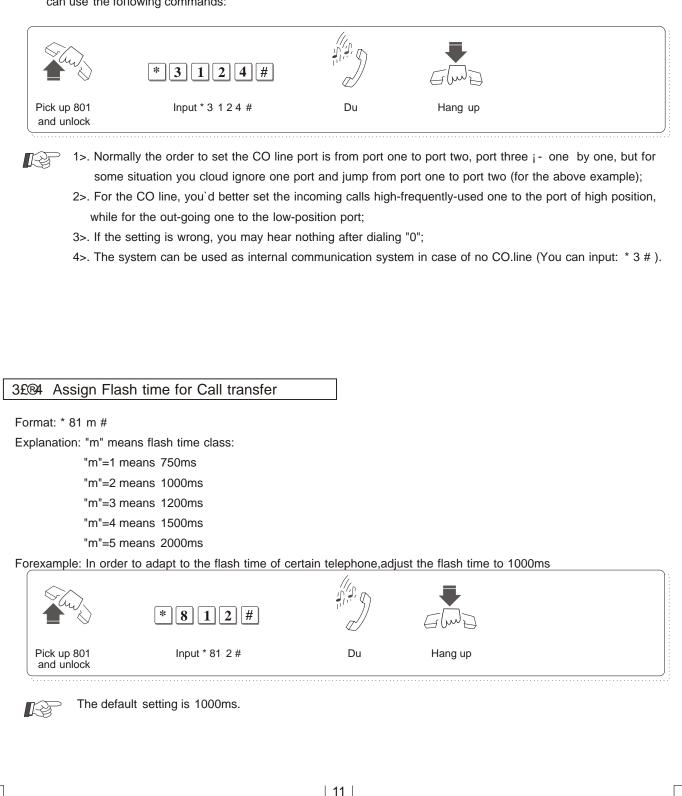
Format: * 3 a b c d e f #

Explanation: [ai ¢bi ¢ci ¢di ¢ei ¢f]stand for the CO line port number

Description: Set CO line(s) to external line port(s)

Example: If a company has 3 CO lines and he want connect 3 CO lines to CO line ports 1,2 & 4, then he

can use the following commands:



Assign dial-out mode for extension

3. 5 Assign dial-out mode for extension

3. 5. 1 Direct dial-out

Format: * 8 abc n #

Explanation: [abc] The extension number;

[n=0] means extension dial "0" or patting hook to dial out;

[n=1] means extension can directly make outgoing calls.

Description: You can make the outgoing call directly with the direct-out mode extension, while you want to make an internal call, you need to dial * first followed by the extension number.

Example: Set Direct Dial out mode for extension 803



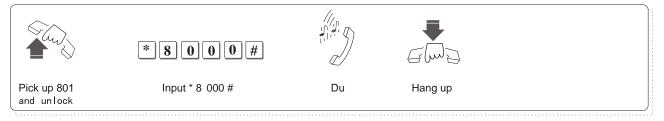
1>. Extensions with direct dial-out mode make internal calls should dial * first followed by extension number;2>. The default mode of dial-out for all extensions are dial 0 first then dial out.

3. 5. 2 Resetting Direct Dial mode

Format: * 8 000 #

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Description: To reset Direct Dial Mode to the default setting for all extensions.



	stem Programn		Assign	CO line to Exclu	sive Extension
. 6 Assign CO	line to Exclusive Exte	nsion			
	O line to be exclusively ac		in extension(s)		
Format: * 4 1 A abc #	ŧ				
	t to program mode; [A] CC				
	CO line exclusively be acce to it for outgoing calls.	essed by certain	extensions for outgoing	calls and other	extensions
	CO line 2 exclusively for ex	xtensions 803 ar	nd 807		
$\left[\begin{array}{c} & \\ & \end{array} \right]$		///		11/10	_
* 4	12803#	*	4 1 2 8 0 7 #	¥	G m J
Pick up 801 and un lock	Input * 41 2 803 #	Du	Input 41 2 807 #	Du	Hang up
1>. The above	ve operation can be carrie	d out in the follo	wig batch mode:		
× ×					
		#	807#		Elm?
Pick up 801 and un lock	Input * 41 2 803 #	Du	Input 807 #	Du	Hang up
	I this setting, just needs to				
Format: * 4 2 A abc # Explanation: [42] Shift Description: Assign ext	to program mode; [A] CO ension to make outgoing o ine is spare.	-			ne, even if the
Format: * 4 2 A abc # Explanation: [42] Shift Description: Assign ext other CO I	ension to make outgoing o	calls by particula			ne, even if the
Format: * 4 2 A abc # Explanation: [42] Shift Description: Assign ext other CO I	ension to make outgoing on ine is spare.	calls by particula			ne, even if the
Format: * 4 2 A abc # Explanation: [42] Shift Description: Assign ext other CO I	ension to make outgoing o ine is spare. tension 806 to use CO 2 o	calls by particula	r CO line only and can`t		ne, even if the
Format: * 4 2 A abc # Explanation: [42] Shift Description: Assign ext other CO I Example: To restrict ex Example: To restrict ex Pick up 801 and un lock	ension to make outgoing of ine is spare. tension 806 to use CO 2 of * 4 2 2 8 0	calls by particula	r CO line only and can`t	use other CO I	ne, even if the

3. 7 Extension Class Assignment

3. 7. 1 Assign calling class for certain extension

Format: * 5 6 abc n

Explanation: [abc] Extension number to restrict;

[n=0] Permit to dial the special calling number only;

[n=1] Means the extension be set to class "1";

[n=2] Means the extension be set to class "2";

[n=3] Means the extension be set to class "3";

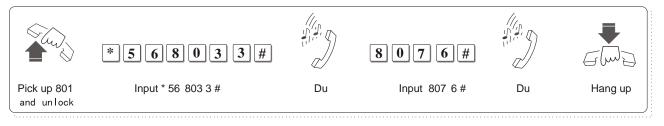
[n=4] Means the extension be set to class "4";

[n=5] Means the extension be set to class "5";

[n=6] Internal communication only;

Description: Assign the outgoing calling right for extension

Example: To assign extension 803 not be able to make calls in class "3", and extension 807 not be able to make outgoing calls.



3. 7. 2 Assign calling class for all extensions

Format: * 5 6 n #

Explanation: [abc] Extension number; [n] Class No.;

Description: Assign calling class for all extensions with one command;

Example: Assign the calling class to be 3 for all extensions.

- Church	* 5 6 3 #		Em3	
Pick up 801 and un lock	Input * 56 3 #	Du	Hang up	

R

1>. This command enables a user to set class restriction on extensions in a fast and convenient way, especially when most extensions have the same class.For example, if you want set extension 803 to class 3 and extension 808 to class 4, and the rest extensions to class 5, then you can set the restriction rank to be 5 for all extensions and change the restriction class to 3 for extension 803 and 4 to 808;

2>. The outgoing classes for all extensions are 1 at the initial state.

Extension Class Assignment

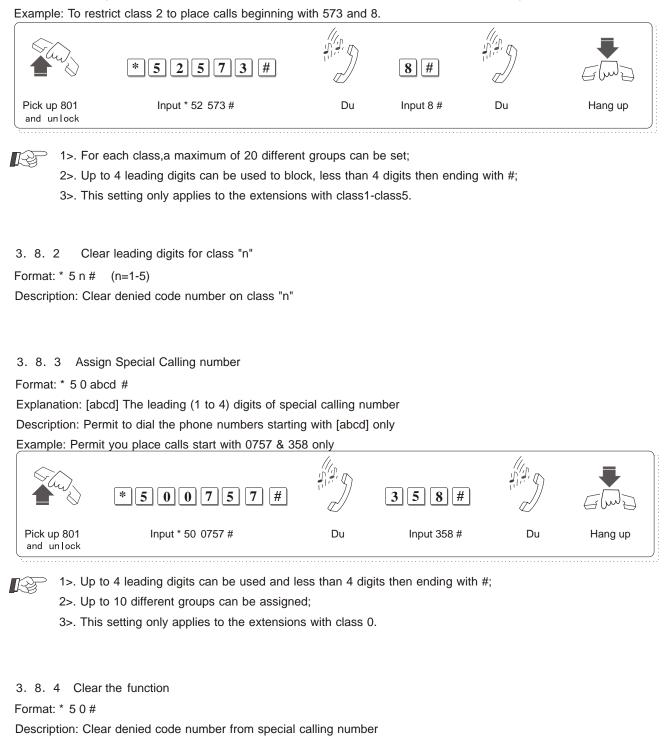
Setting Restriction Group

3. 8 Setting Restriction Group

- 3. 8. 1 Setting leading digits for class "n"
- Format: * 5 n abcd # (n=1-5)

Explanation: [abcd] The leading digits of the calling number to block.

Description: Assign class "n" to restrict to place unauthorized calls, which starts with [abcd] digits.



Call Duration Control

Call Duration Control 3.9

3. 9. 1 Setting call duration for extension

Format: * 9 abc mn

Explanation: [abc] Extension number; [mn] Call duration (1 -99) minutes

Description: Control extension call duration for using CO line.

Example: Set call duration to within 15 minutes for EXT. 805

	*980515#			
Pick up 801 and un lock	Input * 9 805 15 #	Du	Hang up	



The call duration time should be in 1 to 99 minutes.

3. 9. 2 Clear call duration control

Format: * 9 abc

Description: The maximum calling time up to 99 minutes for extension after cancel the call duration control function. Example: Cancel the call duration for extension 805.

	* 9 8 0 5 #			
Pick up 801 and un lock	Input * 9 805 #	Du	Hang up	

Flexible coding

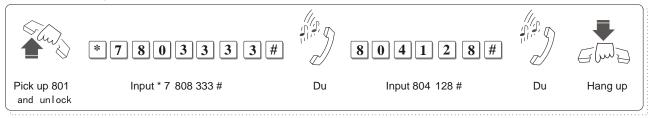
3. 10 Flexible coding

3. 10. 1 Extension Number Assignment

Format: * 7 abc ABC

Explanation: [abc] The original or previous extension number; [ABC] The new extension number;Description:Change of extension number.

Example: To change EXT 803 to 333, EXT 804 to 128





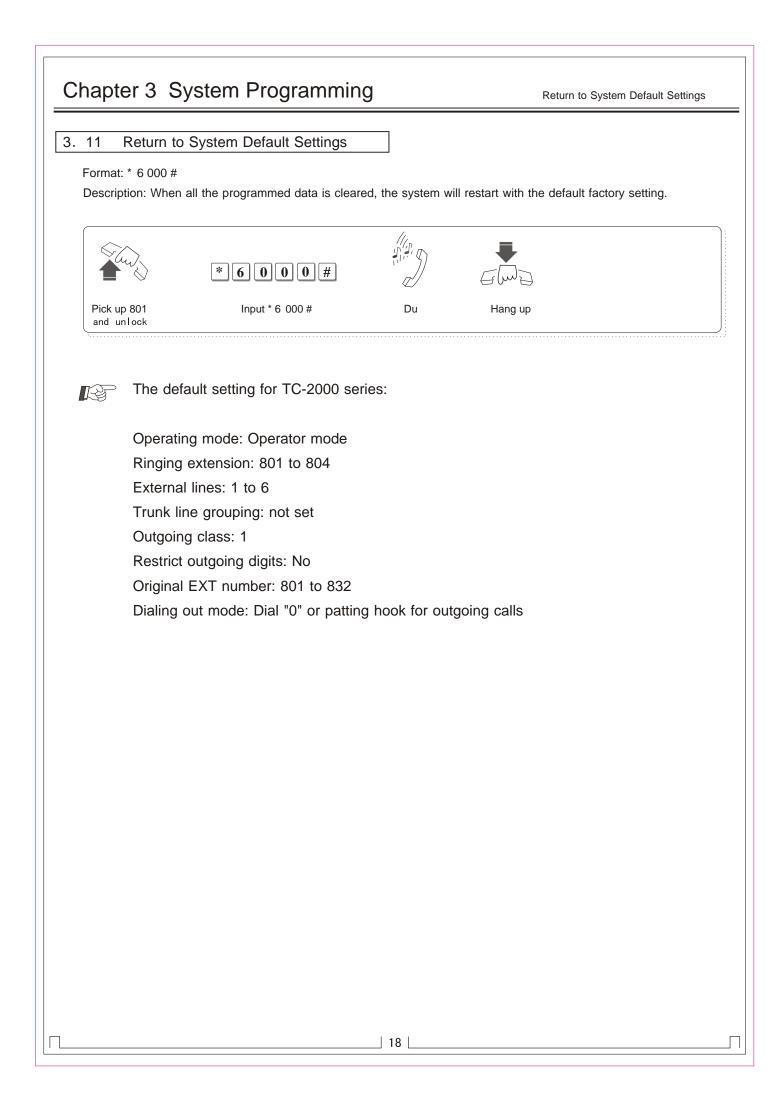
1>. New extension number must be among 100---999;2>. New extension number should not be chosen from the original extension numbers, namely from 801 to 832.

3. 10. 2 Restoring Original Extension Numbers

Format: * 7 000

Description: If user wants to adjust the extension numbers, he/she may use this command to reset the current extension numbers to the original ones to avoid duplicate numbers.

A www.	* 7 0 0 0 #			
Pick up 801 and un lock	Input * 7 000 #	Du	Hang up	



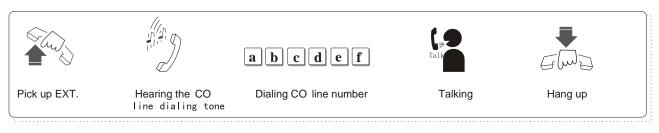
Outward Dialing

4. 1 Outward Dialing

This system provides 4 dialing modes to meet the different need of customers: direct dialing out, patting hook dialing out, direct out by dialing "0" first and dialing out by a special line.

4. 1. 1 Outward Dialing directly

Format: Pick up the handset and dial extension number directly after hearing the CO line tone. Description: Making outgoing calls on extensions with direct dialing mode, no line access code required.



1>. Allows you to redial the last telephone number.

4. 1. 2 Outward dialing by dialing 0 first

Format: Pick up the handset and dial 0 first after hearing the internal dialing tone, then dial the CO line number after hearing the CO line dialing tone.

Description: When the extension isn't assigned to direct outward mode, you will hear the internal dialing tone after picking up the handset, dial 0 then you enter the CO line, you may dial the CO line number after hearing che CO line dialing tone.

	0		abcdef	L ∋ S Talk	Em2
Pick up EXT	Dial 0 first	Hearing the CO line dialing tone	Dialing CO line number	Talking	Hang up

1>. The user should dial 0 within 5 seconds after hearing the internal dialing tone;

2>. The user can redial the last number by pressing the Pause key on the telephone after dialing 0.

4. 1. 3 Outward dialing by patting hook

Format: Pick up the handset and patting hook, dial the CO line telephone number after hearing the CO line dialing tone. Description: At in-direct outward dialing mode, pick up the handset and you will hear the internal dialing tone, patting hook then you can dial the CO line telephone number after hearing the CO line dialing tone.

	۲ ۲ ۲		abcdef	, ∍ S Talk	
Pick up EXT	Patting hook	Hearing the CO line dialing tone	Dialing CO line number	Talking	Hang up
Allov	ws you to redial	the last telephone num	ber.		
Format: # and Description: In line	itward dialing by CO line port nun some occasion, e dialing. e an outward cal	nber the user may place an	outward call by an exclusive	line and we defi	nite it as Choosing
	#3		abcdef	T alk	
Pick up EXT	Dial # 3	Hearing the CO line dialing tone	Dialing CO line number	Talking	Hang up
1>. If y	ou hear the busy	y tone after choosing a	CO line that to say the CO I	ine is occupied o	r not in using.
			20		

Chapter 4 Operating Instruction Intercom calling 4£®2 Intercom calling 4£@2£@1 Intercom calling at direct outward mode Format: * + Extension number Description: Make internal call from extension with direct outward mode. Example: Extension 805 is at direct outward dialing mode and he want call extension 807. * 8 0 7 Hearing the CO Input * 807 Hang up Pick up EXT Internal communication line dialing tone 4£®2£®2 Intercom calling at in-direct outward mode Format: Dial the extension number directly. Description: Extension 805 is at in-direct outward dialing mode and he want call extension 807, then: 8 0 7 Hearing the internal Pick up EXT Input 807 Internal communication Hang up dialing tone 1>. Intercom calling is free of charge. R.

Answering call

4£®3 Answering call

4£®8£®1 Answering calls at operator mode

The extension(s) set to ring will ring when an incoming call is received, and pick up the handset you may answer the call directly.



4£83£82 OGM mode answering calls

No extension will ring when an inmcoming call is received, the recorder system message will be heard to provide which extension to call.



1>. DISA mode see 3.2.6;

2>. When a caller dials 0 for inquiry, extension 802 will ring. If extension 802 is busy, the system will search for a vacant extension starting from extension 803;

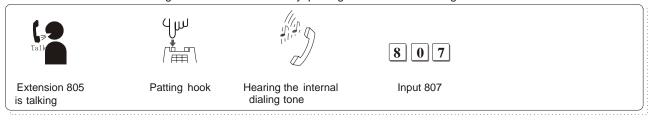
Call transfer

4£®4 Call transfer

Format: Pat the hook then dial the extension number

Description: Allows you to transfer an incoming call to another extension.

Example: Extension 805 is talking to CO line and want to transfer the CO line to extension 807, then extension 805 can transfer the incoming call to extension 807 by patting the hook and dialing 807.





1>. There may be following 4 cases after a call is transferred from A to B:

a. A does not hang up and B picks up his handset

Then communication between A and B is established while the outside caller is on Hold (music on hold), whoever hang up (A or B), the system transfer outside caller to the other.

- b. A does not hang up and B does not answer A within 25 seconds If Ext. B does not answer A within 25 seconds, then A will restore the connection with CO line, and B will stop ringing.
- c. A hangs up and B answers the call B will answer the outside caller.
- d. A hangs up and B does not answer the call within 25 seconds Call will be back to A and will ring for 25 seconds, if A is busy, the system will cut off.
- 2>. The FLASH TIME is 100ms to 1500ms for patting the hook, you may press FLASH button instead of pat the hook for transferring the incoming call.
- 3>. The extension, which transfer the call, has 5 seconds to dial the extension number required otherwise the incoming call will be back to him again.
- 4>. The Flash time can be set (see 3.4).

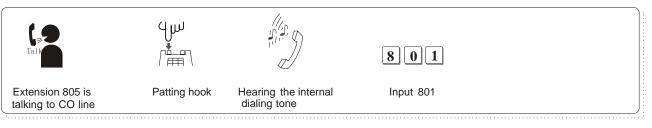
Boss/Secretary Function

4£®5 Boss/Secretary Function

Format: Pat the hook then dial the extension number

Description: This funciton let you make an outgoing call from one extension then divert and connect other extension to CO line.

Example: Extension 805 makes an outward call then transfer the call to extension 801



1>. The FLASH TIME is 100ms to 1500ms for patting the hook, you may press FLASH button instead of patting the hook.

- 2>. You should input the extension number within 5 seconds after patting the hook and hearing the interanl dialing tone, otherwise you will be come back to the CO line again.
- 3>. The Flash time can be set (see 3.4).

Conference

4£®6 Conference

4£86. 1 Conference (1 CO line and 2 extensions)

Format: Pat the hook and * and extension number

Description: Allows you to add a third party to a two-party conversation and make a three-party comference.

You can have only two extensions with one CO line.

Example: Extension 805 is talking to CO line caller and he want to transfer the call to 807, then 805,807 and CO line can talk at the same time.



1>. There may be following 2 cases after a call is transferred from A to B:

a. A does not hang up and B picks up his handset

Then communication between A and B is established while the outside caller is on Hold (music on hold), whoever hang up (A or B), the system transfer outside caller to the other one.

- b. A does not hang up and B does not answer A within 25 seconds
 If Ext. B does not answer A within 25 seconds, then A will restore the connection with CO line, and B will stop ringing.
- 2>. The FLASH TIME is 100ms to 1500ms for patting the hook, you may press FLASH button instead of pat the hook for transferring the incoming call.
- 3>. The extension, which transfer the call,has 5 seconds to dial the extension number required otherwise the incoming call will be back to him again.

4£86. 2 Caller on holding

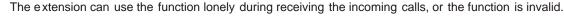
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Format: Pat the hook + #99

Description: If the user applies for the caller on holding function at his Telecom Company then he may use the function to receive two different incoming calls .

For example: Extension 805 is talking with C.O line A, and at this time B calling in, then 805 can make conversation with B after inputting the above format(A is in the state of Caller on holding). After finishing conversation with B. 805 can still connect with A by inputting the format.



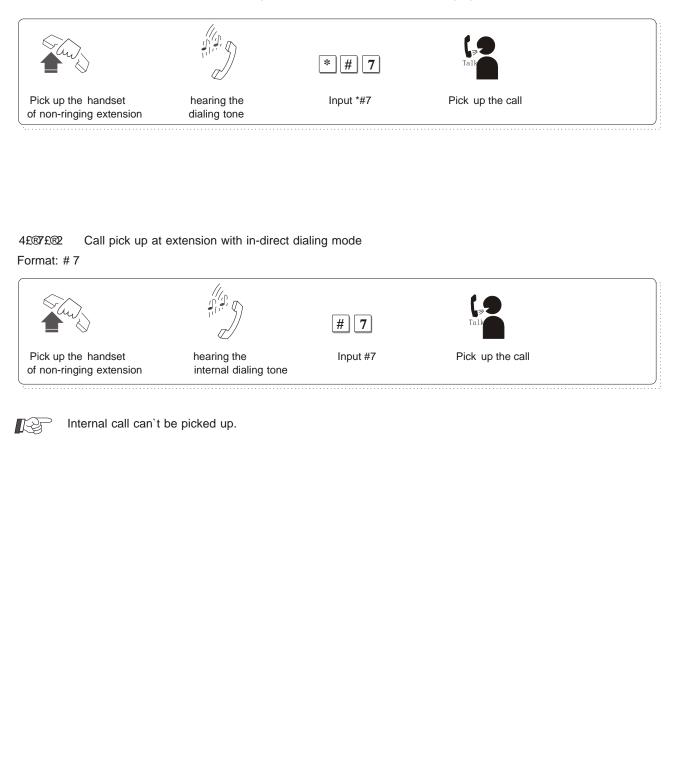


4£®7 Call pick up

4£®7£®1 Call pick up at extension with direct dialing mode

Format: * # 7

Description: Allows you to answer an incoming call(direct or transferred) that is ringing at another extension.



Chapter 4 Operating Instruction Call Forwarding 4£®8 Call Forwarding 4£88£81 Setting Call Forwarding Format: # 0 + extension number Description: Allows an extension user to transfer incoming calls automatically to another extension. Example: The user of extension 805 want to go to 807 for a work then he can forward all the incoming calls of 805 to 807. # 0 8 Pick up EXT. 805 hearing dialing tone Input #0 807 Hearing the music Hang up If the extension is at direct dialing out mode, you should input * first to enter internal line. 12 4£88£82 Canceling the setting Format: Pick up the handset than hang up Pick up the handset Hang up of extension 805 1>. Extension which have already been assigned, as a forwarded destination, cannot set the Call Forwarding R feature. 2>. Pick up the handset of extension with Call Forward function you will hear nothing and can't do any operating, you must hang up to cancel the function first.

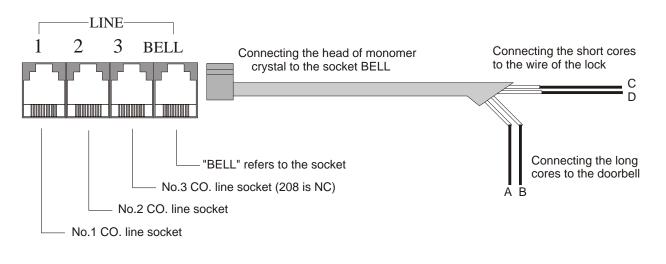
С	Chapter 4 Op	perating Instr	uction	Automatic re	eporting of extension numbe	ər
4£	B Automatic r	eporting of extensi	on number			
	Format: # 81					
			f the system, it is very co	onvenient to find the exte	ension number. The syste	em
		for this purpose. #81 on extension 803	3 you may hear 8 continu	uous du, and you will hea	ar 10 du at about 2 seco	nds
	later, at la	st you may hear anoth	ner 3 du, that mean the	extension number is 803		
	1 Auro	# 81				
	Pick up EXT. 803	Input #81	8 continuous du	10 continuous du	3 continuous du	
		ous du stands for "0".				:
4£	Image: Book of the second s	ess and monitorin	a			
	Format: # 9 n		5			
		ds for the CO line por				
			th CO line regardless wh npany control the CO line	nether or not this line is c e communication.	ccupied.This feature ens	sures
	Example: Priority ac					
			Access the			
		# 9 3	Talk			
	Pick up 801 and unlock	Input #93	Extension 801 priority	access		
		ension 801 has priority	y access; the legal issues resulting	a form this operation.		
				g		
						_
			28			

4£®11 DoorBell & Door Lock (This function for 108A,208A,308A,312A,316A of TC2000A)

4.11.1 Connection instruction

To meet the need of our customers, two additional functions TALK-BACK DOORBELL & ELECTRON-CONTROLLED LOCK, are adopted to 108A, 208A, 308A, 312A and 316A, which are convenient for you to use as the doorbelland automatically to open/close your door. The products are suitable for the offices and villas.

Connection: Put one head of the monomer-crystal (four-cores inside the connecting line equipped with the units)into the socket BELL of the external line, then connect the two long cores with the doorbell or the mini-telephone, and the left two short cores with the power switch of the electron-controlled lock. Pls. refer to the below sketch map:



1>. For the doorbell, ours are available for their small dimension, nice appearance, good tone and easy installation.

 Connect the wire of the electron-controlled lock, which are available in the market, to the location C & D (C & D power supply: 48V, 4A,10ms).

4.11.2 . Ringing Extension Assignment

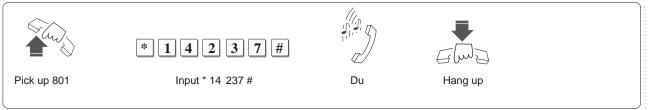
Format: * 14 abcd #

Teg-

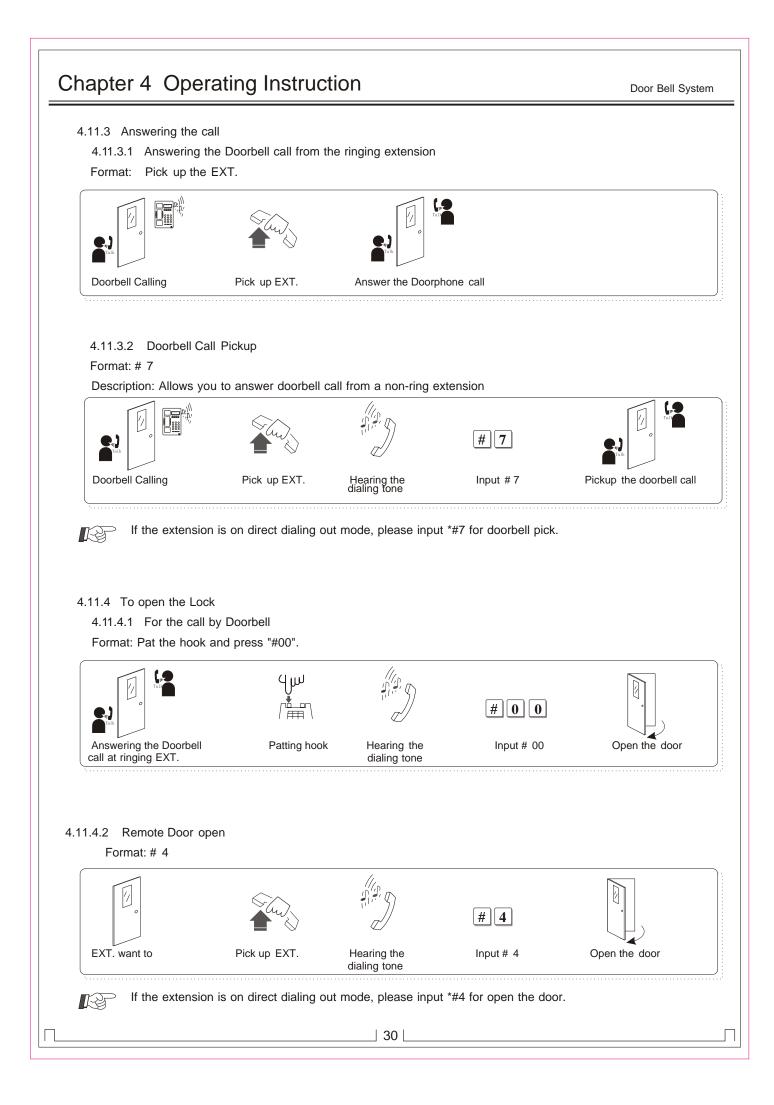
Explanation: [a,b,c,d] stands for the last digits for the ringing extension

Description: Assign the extensions which will ring when doorbell calls.

Example: If you want extension 802, 803 & 807 ring when there is an incoming call:



Thus a visitor press the doorbell, the extension 802, 803 & 807 will ring at the same time. Any extension will be available for a conversation.



4£®12 Assign Monitor & Recorder (This funtion for 108E,208E,308E,312E,316E of TC2000E)

4.12.1. Assign certain extension be monitored

Format: * 43 abc n #

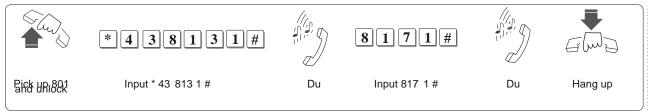
Explanation: "abc"is the extension number you want to assign

n=0 means cancel the function

n=1 means the extension will be recorded

Description: When the function is setting,once the extension pick up the handset the recorder start to record until hang up.

Example: Set extension 813 and 817 as the monitored extension



1. All extensions can be set be monitored and recorded.

2. Extension A is being recorded and at this time extension B pick up handset (which has also set the function), then only extension A be recorded. Extension B will be recorded only after A hang up.

4.12.2. Cancel all monitored Extensions

Format: * 43 #

Description: When user want to cancel all monitored extensions or change most of monitored extensions, then he can use this command.

4.12.3. Assign certain C.O line be monitored

Format: * 44 a n #

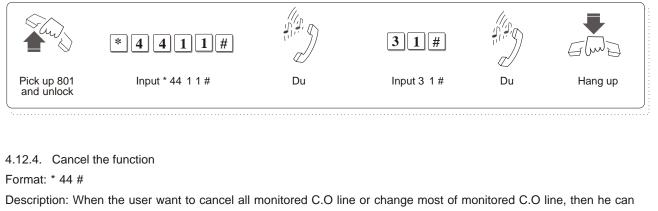
Explanation: "a"is the C.O line port number

n=0 means cancel the function

n=1 means the C.O line will be monitored

Description: After the function has been set, once the CO.line is busy the recorder start to record until free;

Example: Assign C.O line 1 and 3 as monitored C.O lines,



use this format.

Chapter 4 Appendix

Accessories Introduction

Accessories Introduction:

1.Doorbell

- Two-way communication
- One-touch Calling
- Night-light display
- 2'C line connecting
- Compatible with TC-2000 PBX & Powered by PBX





2.Door-opener

- Both Electronic Control & Manual Control
- Normal Key equipped
- 2'C line connecting
- Compatible with TC-2000 PBX & Powered by PBX



Door-opener

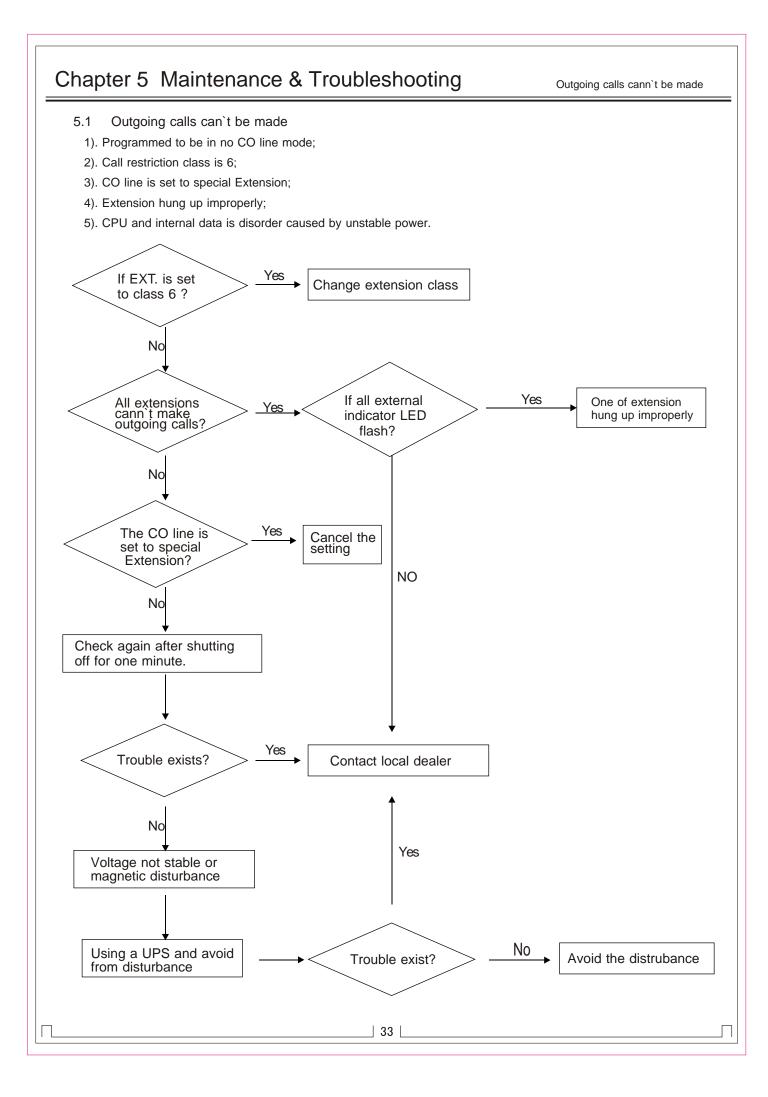
3.Telephone Recorder

- Auto-Record and Moniter when off-hook
- Auto-Stop when on-hook
- Record & Play functions with Normal Tape
- For Type B: Digital Record Automatically
- Answer Machine Function

Applications:

- Telephone charge list intendance in enterprises
- To supervise the behavior of leak/bribe by staffs
- Memorandum during business negotiation
- A Best Co-worker for a harmonious family
- The Evidence Record for Attorney & Police
- The sweet memory between friends and relatives
- Type B, with secretary-call function, can replace telephone answering machine.

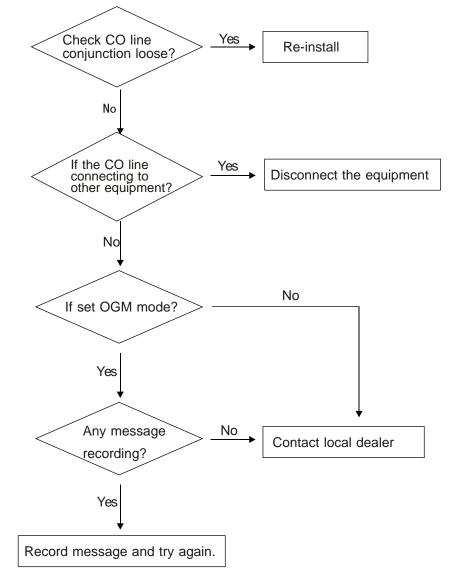
Telephone Recorder



Chapter 5 Maintenance & Troubleshooting

Outside calls can't dial in

- 5.2 Outside calls can't dial in
 - 1). The conjunction of CO line loose;
 - 2). CO line was connect to other equipment;
 - 3). No message recording at auto-operator mode.



Chapter 5 Maintenance & Troubleshooting Intercom cann't be made 5.3 Intercom can't be made 1). Extension hung up improperly; 2). Extension number wrong. If the extension was hung up properly? Hang up the extension properly No Yes Yes The extension Part the short-Work normal now? cord short circuit point circuit? No No Restore original If intercom regular? Contact local dealer extension number Yes Program new extension number if required 35

Chapter 6 Warranty

We warrant your product to be free from defects in material and workmanship for one year from thedate of purchasing.

This warranty applies only to the original consumer purchaser and only to products employed in normaluse and service. If this product is found to be defective, our dealer is only obligation, to repair or replacement of the product, which not been damaged through misuse, abuse, accident, modification, alteration, neglect or mishandling.

This warranty shall not apply to any product which is found to have been improperly installed, con-figured,or used in any way not in accordance with the instructions supplied with this product. For repair or replacement, call for a Return Authorization Number first. Then send the defective instrument to local dealer. You must include a letter with the return authorization number, describing unambiguously the way in which the product is defective along with a proof of purchase.

We do not warrant and specifically disclaims any warranty, whether express or implied, of the fitness for a particular purpose other than the warranty contained herein. No implied warranty on this product shall extend beyond the term of this warranty unless such law otherwise provides.

We specifically disclaims any liability and shall not be liable for any consequential or incidental loss or damage, including but not limited to damages to any equipment with which this product is used.

No agent, representative, dealer or employee has the authority to increase or alter the obligations or terms of this Warranty.

This Warranty is only valid for merchandise purchased directly from our Agent or delar.

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26	* 6 000 #	Return to system default settings	18