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ISSUE 2

RANGER AK series

ELECTRONIC KEY TELEPHONE SYSTEM

OPERATION MANUAL

MAY, 1990

NEC Australia Pty. Ltd

RANGER AK

ELECTRONIC KEY TELEPHONE SYSTEM OPERATION MANUAL

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*DTMF tones
select a line press * # then
dial number.*

1 GENERAL

The RANGER AK Operation Manual is divided into three sections. Each section is further sub-divided to provide a detailed step-by-step feature operation manual. The Operation Manual provides the LED and LCD status for each feature at each point of operation.

The remaining sections of Chapter 4 are:

- 2 Key Telephone Operation
- 3 Attendant Operation
- 4 System Programming
- 5 Feature Access Code List

Section 2 includes all operations available to Key Telephones.

Section 3 augments section 2; with only Attendant operations included in this section.

Section 4 provides all operations available to System Programming.

Section 5 provides a list of System Feature Access Codes, that can be registered on the Programmable Feature Keys (LKs).

NOTE: This chapter describes on hook origination procedures (monitor mode) for outgoing calls. The handset may be lifted at anytime during on hook origination (monitor mode) or conversation. An outgoing call can also be originated by depressing an idle CO/PBX key, after lifting the handset (Off-hook).

2 KEY TELEPHONE OPERATION

2.1 CO/PBX (Outside) Calls

2.1.1 Originating

a. Manual Dialling (Desired CO/PBX Line Seizure)

- Depress an idle CO/PBX line key.

SPKR LED lights.

L | | | | | | | | | | | | | |

CO/PBX green LED winks.

- Dial desired number.

S | 1 | 6 | 7 | 5 | 3 | 7 | 0 | 0 | 0 | | | | | |

- Lift handset to converse with called party.

SPKR LED goes off.

| | | | | | | | | | 0 | 0 | - | 5 | 9 |

b. Dial Access on Intercom Line (Automatic Idle CO/PBX Line Seizure)

- Depress **SPKR** key (or lift handset) to receive dial tone.

SPKR and **ICM** LEDs light.

| | 1 | 0 | - | - | 0 | | | | | | | | | |

- Dial trunk access code (Default 9) and desired number.

ICM LED goes off.

L | | | | | | | | | | | | | |

CO/PBX green LED winks.

S | 1 | 6 | 7 | 5 | 3 | 7 | 0 | 0 | 0 | | | | | |

- Lift handset to converse with called party.

SPKR LED goes off.

| | | | | | | | | | 0 | 0 | - | 5 | 9 |

c. Last CO/PBX Number Redial

- Depress **LNR / SPD** key.

CO/PBX green LED winks.

L | n | r | | | | | | | | | | | | | |

- Dial #.

SPKR LED lights.

L | n | = | S | 1 | 6 | 7 | 5 | 3 | 7 | 0 | 0 | 0 | | | | | |

- Lift handset to converse with called party.

SPKR LED goes off.

| | | | | | | | | | 0 | 0 | - | 5 | 9 |

SAMPLE LED INDICATIONS

SAMPLE LCD INDICATIONS

d. Station Speed Dialling

- Depress LNR/SPD key.
- Dial station speed dial buffer number (00 - 19).
- Lift handset to converse with called party.

SAMPLE LED INDICATIONS

CO/PBX green LED winks.

SPKR LED lights.

SPKR LED goes off.

SAMPLE LCD INDICATIONS

LNR _ _ SPD _ _

00-5167537000

00-59

e. System Speed Dialling

- Depress LNR/SPD key.
- Dial system speed dial buffer number (20 - 99).
- Lift handset to converse with called party.

CO/PBX green LED winks.

SPKR LED lights.

SPKR LED goes off.

LNR _ _ SPD _ _

80-5167537000

00-59

NOTE: If the programmed line key, when the speed dial buffer number is programmed, is depressed, the desired number is automatically dialled.

SAMPLE LED INDICATIONS

SAMPLE LCD INDICATIONS

f. Prime Line (Programmable)

- Lift handset to receive dial tone.
- Use any of the dialling methods described:
 - Dial pad
 - System Speed Dial
 - Station Speed Dial

CO/PBX green LED winks.

L | | | | | | | | | |

S | 1 | 6 | 7 | 5 | 3 | 7 | 0 | 0 | 0 | | | |

g. Consecutive Speed Dial

Originating

- Depress LNR/SPD key.
- Dial desired Speed Dial buffer number.
- Depress LNR/SPD key.
- Dial desired Speed Dial buffer number.

CO/PBX green LED winks.

SPKR LED lights.

L | n | r | _ | | S | P | d | _ | _ | |

0 | 1 | = | 3 | 5 | 8 | 5 | 6 | 4 | | | | |

L | n | r | _ | | S | P | d | _ | _ | |

0 | 2 | = | 7 | 8 | 9 | 0 | 3 | 2 | | | | |

(Can be continued if needed.)

- Lift handset to converse with called party.

SPKR LED goes off.

| | | | | | | | | 0 | 0 | - | 5 | 9 |

NOTE: Use any combination of manual, Station Speed and System Speed Dialling.

h. Specific CO/PBX Line Seizure

- Depress **SPKR** key.
- Dial 63.
- Dial the specific CO/PBX line number (1 - 8).
- See 2.1 CO/PBX (outside) Calls to continue calling operation.

SAMPLE LED INDICATIONS

ICM and **SPKR** LEDs light.

ICM LED goes off.

CO/PBX green LED winks.

SAMPLE LCD INDICATIONS

10--C 3

10--C633

LI

2.1.2 Answering

a. Manually Selecting Line

- Depress CO/PBX line key associated with flashing LED.
- Use handset to talk.

b. Ringing Line Preference

- Lift handset to respond.

CO/PBX red LED flashes.

CO/PBX green LED winks.

SPKR LED lights.

SPKR LED goes off.

CO/PBX green LED winks.

LI

00-S9

00-S9

NOTE: System data must be programmed for incoming calls to be picked up on Ringing Line Preference.

2.1.3 Placing a Call On Hold

With a call in progress

- Depress **HOLD** key once for Nonexclusive Hold. ICM dial tone is heard.

— OR —

- Depress **HOLD** key twice for Exclusive Hold. ICM dial tone is heard.

NOTE: If the Key Telephone placed the call on hold for longer than the predetermined time, the call will recall to the Key Telephone, and a recall tone is provided.

- Depress the line key with flashing LED to answer the Hold Recall.

2.1.4 Abandoning a Call

a. Using handset

- Restore handset.

b. Using CO/PBX line key.

- Depress CO/PBX line key, while placing a call with the handset on-hook.
- CO/PBX line is released.

c. Using Recall key

- Depress **RECALL** key at the end of the call.
- CO/PBX call is released, but line is retained and new dial tone is heard.

NOTE: 1. Step b is programmable in system data.
2. When using the handset, the call cannot be abandoned by depressing that CO/PBX line key.

SAMPLE LED INDICATIONS

CO/PBX green LED is winking.

CO/PBX green LED winks intermittently.

ICM LED lights.

CO/PBX green LED winks intermittently.

ICM LED lights.

Held **CO/PBX** green LED flutters.

CO/PBX green LED flashes.

CO/PBX green LED winks.

SPKR LED lights.

CO/PBX green LED winks.

CO/PBX green LED goes off.

CO/PBX green LED winks.

CO/PBX green LED goes off.

CO/PBX green LED goes off.

SAMPLE LCD INDICATIONS

00-59

10--[] [] [] [] [] [] [] [] [] []

10--[] [] [] [] [] [] [] [] [] []

1-25 11-59R

[] [] [] [] [] [] [] [] [] []

L 1 [] [] [] [] [] [] [] [] [] []

00-59

1-25 11-59R

00-59

1-25 11-59R

00-59

L 1 [] [] [] [] [] [] [] [] [] []

2.2 Extension (Internal) Calls

2.2.1 Originating

a. Manual Dialling

- Depress SPKR key, ICM dial tone is heard.
- Dial extension number.
- Lift handset to converse with called extension.

NOTE: When a system is programmed for Voice, a caller can Voice Announce or dial 1 to change to tone signalling or vice versa.

b. Using Feature Access Key

- Depress Feature Access key.
- Lift handset to converse with called extension.

NOTE: When Feature Access Keys are programmed for internal extension (DSS keys), depression of the Feature Access Key allows the user to call a desired extension, instead of manual dialling.

c. Chain Calling

- Depress DSS (1) key or
Depress DSS(1) key after depressing SPKR key.
- Depress DSS (2) key.

NOTE: A DSS key is a Feature Access Key which has been programmed with an extension number.

SAMPLE LED INDICATIONS

SPKR and **ICM** LEDs light.

SPKR LED goes off.

SPKR, **ICM** and **PFA** LEDs light.

SPKR LED goes off.

DSS (1) LED lights.

ICM and **SPKR** LEDs light.

DSS (2) LED lights.

DSS (1) LED goes off.

SAMPLE LCD INDICATIONS

10--C 0

10--C 153

10==C 153

10--C 153

10==C 153

15--C 163

15--C 173

2.2.2 Answering

a. With handset

- Lift the handset.

b. With Handsfree

- Speak to the microphone to answer.

NOTE: You can answer an intercom call without lifting the handset if the microphone is on. Depress MIC key(LED lights) to enable the microphone.

2.2.3 Placing a Call on Hold

With a intercom call in progress.

- Depress HOLD key for Exclusive Hold.

To answer a call on hold.

- Lift handset.
- Depress CNF key.

NOTE: To place an ICM call on hold, the calling party must be in an off-hook condition, not in the handsfree answer back mode.

2.2.4 Abandoning a Call

- Restore handset.

SAMPLE LED INDICATIONS

ICM LED blinks.

ICM LED lights.

ICM LED blinks.

ICM LED lights.

CNF LED winks intermittently.

ICM LED lights.

CNF LED goes off.

ICM LED is lit steady.

ICM LED goes off.

SAMPLE LCD INDICATIONS

IS--C103

IS--C103

IS--C103

IS--C103

10--C153

10--C

10--C

10--C153

10--C153

1-25 11-598

2.3.2 Answering

- Depress the line key receiving an incoming call.

NOTE: Make sure that MIC LED is lit.

2.3.3 Placing a Call On Hold

See Section 2.1, item 3. and 2.2, item 3. of this manual.

2.3.4 Abandoning a Call

- Depress SPKR key or depress CO/PBX key (if system data is programmed for this feature).

— OR —

- Depress RECALL key at the end of the call.
- The call is released and new dial tone is heard.

SAMPLE LED INDICATIONS

CO/PBX green LED winks.

SPKR LED lights.

CO/PBX and **SPKR** LEDs go off.

SAMPLE LCD INDICATIONS

00-59

1-25 11-598

LH

2.4.2 Trunk Queueing

This feature allows a station user to increase their call processing efficiency in a high traffic environment. Station users who are denied use of the CO lines because the lines are busy, are able to Queue onto the selected busy line by dialling access code 64.

To set

If the desired CO/PBX line is in use,

- Lift the handset.
- Depress the desired busy line key.
- Dial the access code 64.
- Restore handset.

To Operate

When the reserved CO/PBX line becomes idle,

- Ring Tone sounds.
- Lift handset.
- Dial desired number.

To Cancel

- Lift handset.
- Dial the access code 65.
- Restore handset.

SAMPLE LED INDICATIONS

ICM LED lights.

SPKR LED lights.

ICM LED goes off.

SPKR LED goes off.

ICM LED blinks.

ICM LED goes off.

CO/PBX green LED winks.

ICM LED lights.

ICM LED goes off.

SAMPLE LCD INDICATIONS

				6	0	5	9								
				C	o	L	i	n	E	r	S	u			
				1	-	2	5			1	1	-	5	9	8

				C	o	L	i	n	E	r	d	L	E		
				L	i										
				1	3	2	6	4	3	5					

				1	0	-	-	0								
				C	o	L	i	n	E	r	S	u		C	L	r
				1	-	2	5			1	1	-	5	9	8	

2.4.4 Receiving Volume Control

Handset receive volume can be adjusted as follows:

With a call (outside / intercom) in progress.

- Depress FNC key.
- Dial 2.

NOTE: When enabled, this feature increases receive volume in the handset by 5dB. This feature cancels when the station user returns the Key Telephone to the on hook condition. In system data, cancellation can be assigned not to occur when the Key Telephone is returned to the idle condition. The same procedure is used to set and cancel the feature.

SAMPLE LED INDICATIONS

FNC LED lights.

FNC LED goes off.

SAMPLE LCD INDICATIONS

□ □ □ □ □ □ □ □ □ □ 00-59

— OR —

15:2[10] □ □ □ □ □ □

2.5 Transfer

2.5.1 Call Transfer

With call in progress

- Depress **HOLD** key; receive Intercom dial tone.
- Dial extension number.
- After called party answers, depress **RECALL** key and restore handset.

2.5.2 Ring Transfer

With a call in progress

- Depress **HOLD** key.
- Dial extension number.
- Depress **RECALL** key before answer.
- Restore handset.

NOTE: Unanswered Transferred calls will Recall to the station user who initiated the Transfer after the Recall time interval has elapsed. A recall tone is provided.

A Ring Transferred station can answer an incoming outside call by simply lifting the handset.

SAMPLE LED INDICATIONS

CO/PBX green LED winks.

CO/PBX green LED winks intermittently.

ICM LED lights.

CO/PBX red LED lights.

ICM LED goes off.

CO/PBX green LED winks.

CO/PBX green LED winks intermittently.

ICM LED lights.

CO/PBX red LED blinks.

ICM LED goes off.

SAMPLE LCD INDICATIONS

00-59

10--C 0

10--C 150

1-25 11-598

00-59

15--C 0

15--C 160

15--C 0

1-25 11-598

2.5.4 Call Park

To Transfer

With a call in progress

- Depress **HOLD** key.
- Depress **RECALL** key.
- Restore handset.
- Inform the Transferred party of the Transfer.

To Answer

- Depress **SPKR** key.
- Dial 62 to converse with outside party.

NOTE: Call Park is available within the same tenant only. When the call placed on Call Park is not answered within the specified time, Recall tone is heard from the speaker of the originating station.

2.5.5 Automatic Hold

To Transfer

With a call in progress

- Depress **DSS** key.

NOTE: 1. DSS key is a Feature Access Key with a programmed extension number.
2. Depressing **DSS** key automatically holds an outside call.

SAMPLE LED INDICATIONS

CO/PBX green LED winks.

CO/PBX green LED flashes.

ICM LED lights.

ICM LED goes off.

CO/PBX red LED blinks.

ICM LED lights.

CO/PBX green LED winks.

ICM LED goes out.

CO/PBX green LED winks.

CO/PBX green LED flashes.

ICM LED lights.

SAMPLE LCD INDICATIONS

00-59

15--C 3

15--C 3

1-25 11-598

16--C 3

11

00-59

15==C 183

2.6 Conference

Possible Conferences are as follows:

- 3 stations - No CO/PBX lines
- 2 stations - 1 CO/PBX line
- 1 station - 2 CO/PBX lines.

NOTE: 1. When all Conference circuits are busy, CNF LED will light on all Key Telephones. No additional Conferences can be made at this time.
2. Conference calls cannot be transferred.

2.6.1 Three Party Conference

1 CO/PBX line and 2 internal stations

a. With an outside call in progress.

- With first call in progress, depress HOLD key to receive intercom dial tone.
- Originate second call and wait for called party to answer.
- Depress CNF key and establish a 3 party conference. Intrusion tone is sent to each party.

b. With an intercom call in progress.

- Depress Hold key.
- Depress idle line key and receive dial tone.

SAMPLE LED INDICATIONS

CO/PBX green LED winks.

CO/PBX green LED flashes.

ICM LED lights.

CNF LED lights.

CO/PBX green LED winks.

ICM LED goes off.

ICM LED lights.

CNF LED flashes.

CO/PBX LED winks.

ICM LED goes off.

SAMPLE LCD INDICATIONS

00-S9

10--C 3

10--C 153

C 153 00-S9

10--C 153

10--C 3

11

- Originate second call and wait for called party to answer.

- Depress CNF key. Intrusion tone is sent to each party.

2 CO/PBX lines and 1 station.

- With first call in progress, depress HOLD key.

- Depress another line key and originate second call, then wait for called party to answer.

- Depress CNF key and establish a 3 party Conference. Intrusion tone is sent to each party.

3 Internal stations and no CO/PBX lines.

- With first call in progress, depress HOLD key to receive intercom dial tone.

- Originate another call and wait for called party to answer.

- Depress CNF key and establish a 3 party conference. Intrusion tone is sent to each party.

SAMPLE LED INDICATIONS

CNF LED lights.

CO/PBX green LED winks.

CO/PBX green LED flashes.

ICM LED lights.

CO/PBX green LED winks.

ICM LED goes off.

Both **CO/PBX** green LEDs wink.

CNF LED lights.

ICM LED is lit steady.

CNF LED blinks intermittently.

CNF LED lights.

SAMPLE LCD INDICATIONS

S 1 6 7 5 3 7 0 0 0

0 0 - 5 9

C 1 5 3

0 0 - 5 9

1 0 - - C

L 1

S 1 6 7 5 3 7 0 0 0

L 1 L 2 0 0 - 5 9

1 0 - - C 1 1 3

1 0 - - C

1 0 - - C 1 5 3

C 1 1 3 C 1 5 3 C n F

2.6.3 Abandoning a Conference Call

a. Exiting from a Conference (more than one internal station)

- With conference call in progress.
- Restore handset.

Other internal stations stay in the Conference.

b. Abandoning (with a CO/PBX call)

- With conference call in progress.
- Restore handset.

SAMPLE LED INDICATIONS

ICM LED is lit steady.

CNF LED is lit steady.

ICM and **CNF** LEDs go off.

CNF and **CO/PBX** LEDs are lit steady.

CNF LED goes off.

SAMPLE LCD INDICATIONS

[1 1] [1 5] [C n F]

[1 - 2 5] [1 1 - 5 9 8]

[1 5] [0 0 - 5 9]

[1 - 2 5] [1 1 - 5 9 8]

2.7 Internal Zone Paging

To Originate

- Depress **SPKR** key.
- Dial access code ().
 - (70) - (All Call)
 - (71) - (Zone 1)
 - (72) - (Zone 2)
 - (73) - (Zone 3)
- Use handset to page.

— OR —

Depress the line key programmed for one of these access codes.

- Use handset to page.

To Answer (Meet-me)

NOTE: To use Meet-Me answer feature, a station must be in the same zone being paged.

- Depress **SPKR** key.
- Dial access code 74.
- Lift handset to converse with paging party.

— OR —

Depress the line key programmed for this access code.

- Lift handset to converse with paging party.

SAMPLE LED INDICATIONS

SPKR and **ICM** LEDs light.

SPKR LED goes off.

SPKR and **ICM** LEDs light.

SPKR LED goes off.

ICM and **SPKR** LEDs light.

SPKR LED goes off.

SPKR and **ICM** LEDs light.

SPKR LED goes off.

SAMPLE LCD INDICATIONS

10--C 3

10--C703 .P ALL

10--C713 .P

10E PAGE

15--C 3

15--C103

15--C103

2.3 External Zone Paging

To Originate

- Depress SPKR key.
- Dial access code.

Dialled access code is ().

- (75) - (All Zones)
- (76) - (Zone 1)
- (77) - (Zone 2)

- Use handset to page.

— OR —

Depress the line key programmed for one of these access codes.

- Use handset to page.

To Answer (Meet-Me)

- Depress SPKR key.
- Dial access code 74.
- Lift handset to converse with paging party.

— OR —

Depress Feature Access Key programmed for access code 74.

- Lift handset to converse with paging party.

SAMPLE LED INDICATIONS

ICM and **SPKR** LEDs light.

SPKR LED goes off.

ICM and **SPKR** LEDs light.

SPKR LED goes off.

ICM and **SPKR** LEDs light.

SPKR LED goes off.

ICM and **SPKR** LEDs light.

SPKR LED goes off.

SAMPLE LCD INDICATIONS

10--C 3

10--C753 EP ALL

10--C763 EP

15--C 3

15--C103

15--C103

SAMPLE LED INDICATIONS

SAMPLE LCD INDICATIONS

2.9 Step Call Intercom

If the dialled extension is busy, the next idle station within the same tens group will be called. It can be a higher or lower number depending on status of stations within the group.

When the called party's extension is busy, call waiting tone is heard.

- Dial 1.

NOTE: If the called STA is the highest number in the extension group, dialling 1 will step the call to the lowest STA.

10--C153

10--C163

2.10 Call For Attendant

- Depress SPKR key.
- Dial access code ().

Attendant access codes are as follows:

- (86) - (DSS Console 1)
- (87) - (DSS Console 2)

- Lift handset to converse with the Attendant.

SAMPLE LED INDICATIONS

ICM and **SPKR** LEDs light.

SPKR LED goes off.

SAMPLE LCD INDICATIONS

IS--C J

IS--C 103

Example : DSS Console 1

IS=C 103

2.11 Call Pickup

2.11.1 Outside Calls

With incoming CO/PBX Call

- Depress **SPKR** key
- Dial access code ().

Call Pickup access codes are as follows;

- (60) - For other tenants.
- (66) - For same tenant.
- (68) - For PBX line.
- (69) - For CO line.

- Lift handset to converse.

— OR —

Depress **Feature Access Key** programmed for this access code.

- Lift handset to converse.

2.11.2 Extension Calls

With incoming Internal Call

- Depress **SPKR** key.
- Dial access code 61.
- Lift handset to converse.

SAMPLE LED INDICATIONS

CO/PBX red LED blinks.

ICM and **SPKR** LEDs light.

CO/PBX green LED winks.

ICM LED goes off.

SPKR LED goes off.

SPKR LED goes off.

ICM and **SPKR** LEDs light.

SPKR LED goes off.

SAMPLE LCD INDICATIONS

1-25 11-598

IS--C 3

LI

00-59

1-25 11-598

IS--C 3

IS=C203

— OR —

Depress **Feature Access** key programmed for this access code.

- Lift handset to converse.

SAMPLE LED INDICATIONS

SPKR LED goes off.

SAMPLE LCD INDICATIONS

1	5	=	=	[2	0]							
---	---	---	---	---	---	---	---	--	--	--	--	--	--	--

2.12 Security Alarm

Two alarm circuits are provided in the system as an option.

When the alarm circuit is activated, this option provides an audible alarm through all idle Key Telephone speakers.

And the alphanumeric display on all Key Telephones with display indicates which alarm circuit has been activated.

Only the port number 10 and 11 Key Telephone can cancel the alarm signal. See System Programming (Section 4) for procedure to cancel alarm.

S	E	C		A	L	1								
---	---	---	--	---	---	---	--	--	--	--	--	--	--	--

e.g. Security Alarm 1 activated

2.14 Door Phone Calls/Door Lock Release

2.14.1 Door Phone Calls

- Calling Door Phone number appears on LCD and chime tone is provided.

- Lift the handset.

- Answer the Door Phone by dialling the access code.

81 --- Door Phone 1

82 --- Door Phone 2

2.14.2 Door Lock Release

A Door Lock can be released by dialling the specified operation code.

With Door Phone call in progress.

- Depress FNC key.
- Dial 6.
- Door Lock release timesout after 5 seconds.

SAMPLE LED INDICATIONS

ICM LED lights.

ICM LED lit.

FNC LED lights.

FNC LED goes off.

SAMPLE LCD INDICATIONS

dr PH I

IQ--C J

IQ==dr PH I

IQ==dr PH I

door I r L S

IQ==dr PH I

2.15 Tone Override

To Originate

Upon receiving call waiting tone when placing an extension call.

- Dial access code * , and receive Override Tone.
- Talk to party when answered.

To Answer

a. With an intercom call in progress.

Upon receiving Override Tone

- Depress HOLD key.

b. With an outside call in progress

Upon receiving Override Tone.

- Depress HOLD key.

SAMPLE LED INDICATIONS

ICM LED is lit steady.

ICM LED is lit steady.

CNF LED flashes.

CO/PBX green LED winks.

ICM LED blinks.

CO/PBX green LED flashes.

ICM LED lights.

SAMPLE LCD INDICATIONS

10--C1S3

10--C1S3 8-0

10=C=C1S3

1S--C103 8-0

1S=C=C103

1S--C103 8-0

1S=C=C103

SAMPLE LED INDICATIONS

SAMPLE LCD INDICATIONS

2.16 Call Waiting

A station calling a busy station receives Call Waiting tone. The calling station can remain off-hook (or monitor mode) and, when the called station becomes idle, the intercom call will automatically be processed.

- Call Waiting tone is heard when the called party is busy.
- Remain off-hook.
- When the calling party becomes idle, an ICM ringing tone is sent.
- After the called party answers, converse.

ICM LED lights.

IS--C18J

IS=C18J

NOTE: 1. The ICM LED on the called station continuously flashes to indicate that a Call is Waiting.

2. If an intercom call is directed to a station which is in the talking state while another call is waiting, a busy tone, not a call waiting tone, is returned to the station that has placed the intercom call.

2.17 Automatic Callback

To Set

Upon receiving Call Waiting tone when placing an extension call.

- Dial access code 0.
- Receive confirmation tone and hang up.
- A Callback tone is provided to the originating station when the called station becomes idle.
- Lift handset.
- Use handset to talk when answered.

NOTE: Automatic Callback will be cancelled if the Callback is not answered within a predetermined time.

To Cancel

When set in system programming Automatic Callback will time out if the called party does not become idle within a predetermined time.

SAMPLE LED INDICATIONS

ICM LED is lit steady.

ICM LED goes off.

ICM LED blinks.

ICM LED lights.

SAMPLE LCD INDICATIONS

10--C1S3

10--C1S3 RE CB

1-25 11-598

10--C1S3

10--C1S3

2.18 Save/Stock and Repeat

NOTE: If the number is newly registered using Save/Stock and Repeat features, the previously registered number is erased.

To Save

Number just dialled is stored into the memory.

With originating CO/PBX call in progress:

- Depress FNC key.
- Depress # key.
- Number dialled is stored into the memory.

To Stock

Any telephone number is stored into the memory

With originating CO/PBX call in progress.

- Depress FNC key
- Depress* key.
- Dial desired number to be stored into the memory
- Depress FNC key:

NOTE: For Stock dial, pauses can be inserted between desired digits by depressing the LNR/SPD key.

SAMPLE LED INDICATIONS

- CO/PBX** green LED winks.
- FNC** LED lights.
- FNC** LED goes off.

- CO/PBX** green LED winks.
- FNC** LED lights.
- FNC** LED blinks.

- FNC** LED goes off.

SAMPLE LCD INDICATIONS

□ □ □ □ □ □ □ □ □ □ 00-59

Sr=5167537000 □ □

□ □ □ □ □ □ □ □ □ □ 00-59

Sd= □ □ □ □ □ □ □ □ □ □

Sd=5167537000 □ □

SAMPLE LED INDICATIONS

SAMPLE LCD INDICATIONS

To Repeat

- Depress LNR/SPD key.
- Depress * key.
- Lift handset and wait for called party to answer.

CO/PBX green LED slow blinks.

SPKR LED lights.

SPKR LED goes off.

L n r - S P d - -

S r = S 1 6 7 S 3 7 0 0 0

2.19 Do Not Disturb

To Set

- Depress the Feature Access Key programmed for this access code 65.

To Cancel

- Depress the Feature Access Key programmed for this access code 65.

NOTE : Set and Cancel is made alternately each time the PFA key is depressed.

-OR-

To Set

- Depress FNC key.
- Dial access code 65.
- Depress FNC key.

SAMPLE LED INDICATIONS

PFA LED lights.

PFA LED goes off.

FNC LED lights.

FNC LED blinks.

FNC LED winks.

SAMPLE LCD INDICATIONS

DNB SEE

DNB CLEAR

1-25 11-59R

DNB SEE

2.20 Call Forward

To Set

- Depress the Feature Access Key for which this access code and "forward to" number have been stored.

To Cancel

- Depress the Feature Access Key for which this access code and "forward to" number have been stored.

- OR -

To Set

- Depress FNC key.
- Dial access code 60.
- Dial extension number where incoming calls to your extension are to be forwarded to.
- Depress FNC key.

SAMPLE LED INDICATIONS

PFA LED lights.

PFA LED goes off.

FNC LED lights.

FNC LED blinks.

FNC LED goes off.

SAMPLE LCD INDICATIONS

CF			10--	153	
		1-25		11-598	

CF	CLEAR				
		1-25		11-598	

		1-25		11-598	
--	--	------	--	--------	--

CF			10--	C	3
----	--	--	------	---	---

CF			10--	153	
----	--	--	------	-----	--

		1-25		11-59	
--	--	------	--	-------	--

SAMPLE LED INDICATIONS

SAMPLE LCD INDICATIONS

To Cancel

- Depress FNC key and dial access code 60.
- Dial extension number where incoming calls to your extension are to be forwarded to.
- Depress FNC key.

FNC LED lights.

FNC LED blinks.

FNC LED goes off.

				1	-	2	5					1	1	-	5	9	R	
--	--	--	--	---	---	---	---	--	--	--	--	---	---	---	---	---	---	--

				C	F			C	L	E	R							
				1	-	2	5					1	1	-	5	9	R	

NOTE: 1. If there are plural "forwarded to" destinations, assign them to plural Feature Access keys(PFA keys).

2. The PFA key is placed alternately in the set and cancel modes when it is pressed.

3. If an attempt is made to store Call Forward data without entering any "forward to" number, it is treated as Do Not Disturb(for intercom calls only)

2.21 Programming Station Speed Dial

To Program

a. Speed Dialling

- Depress FNC key.
- Depress LNR/SPD key.
- Dial Speed Dial buffer number (00 - 19).
- Dial telephone number to be stored.
- Depress FNC key.

- b. To program last dialled number as station speed dial number, depress SPKR key instead of dialling telephone number.

NOTE: 1. When System Speed Dial numbers are to be entered into a Station Speed Dial buffer, depress **HOLD** and enter the System Speed Dial buffer number (20 - 99) into the Station Speed Dial buffer.

2. Pauses can be inserted into Speed Dial number by depressing the **LNR/SPD** key. Each pause entered counts as a digit.

3. Hook flash can be entered as the first digit by depressing the **RECALL** key.

SAMPLE LED INDICATIONS

FNC LED lights.

FNC LED slow blinks.

FNC LED blinks.

FNC LED goes off.

SAMPLE LCD INDICATIONS

			1	-	2	5				1	1	-	5	9	8			
			=															
0	0	=																
0	0	=	5	1	6	7	5	3	7	0	0	0						
			1	-	2	5				1	1	-	5	9	8			

SAMPLE LED INDICATIONS

SAMPLE LCD INDICATIONS

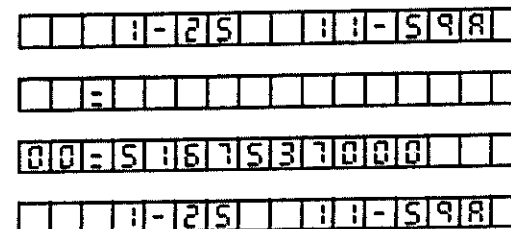
To Verify (Only from Key Telephone with LCD)

a. Speed Dialling

- Depress CNF key.
- Depress LNR/SPD key.
- Dial Speed Dial buffer number (00 - 19) to be verified.
- Check the contents of the buffer with LCD. (The LCD automatically returns to clock/calendar display in about 5 seconds.)

CNF LED flashes.

CNF LED goes off.

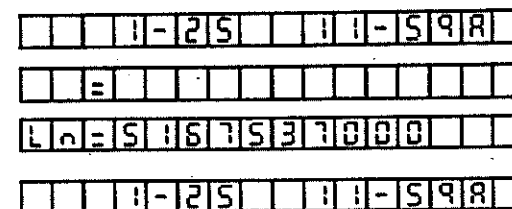


b. Last dialled number

- Depress CNF key.
- Depress LNR/SPD key.
- Dial #.
- Check the contents of the buffer with LCD. (The LCD automatically returns to clock/calendar display in about 5 seconds.)

CNF LED flashes.

CNF LED goes off.



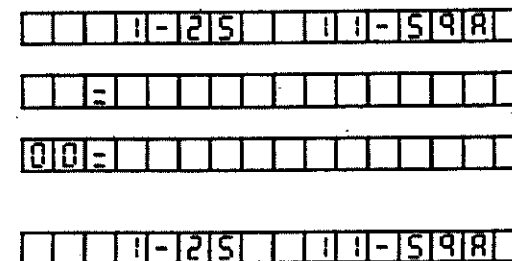
To Clear

- Depress FNC key.
- Depress LNR/SPD key.
- Dial Speed Dial buffer number (00 - 19) to be cleared.
- Depress FNC key.

FNC LED lights.

FNC LED slow blinks.

FNC LED goes off.



2.22 Programming Feature Access Codes

See section 5, Feature Access Code List.

To Program

a. DSS/Speed Dialling

- Depress FNC key.
- Depress LNR/SPD key.
- Depress desired Feature Access key.
- Dial 0 or 1.
(0 : CO/PBX call, 1 : Internal call)
- Depress Speed Dial buffer number (00 - 99) or extension number (10 - 59).
- Depress FNC key.

NOTE: 1. Line key without accommodating CO/PBX line can be programmed as a Feature Access key.
2. Paging, Call Pickup, and Door Phone Call can also be programmed as internal calls.

b. Storing a Feature Access Code

- Depress FNC key.
- Depress LNR/SPD key.
- Depress desired Feature Access key.
- Dial # and desired feature access codes.
- Depress FNC key.

SAMPLE LED INDICATIONS

- FNC** LED lights.
- FNC** LED flashes.
- FNC** LED goes off.

- FNC** LED lights.
- FNC** LED flashes.
- FNC** LED goes off.

SAMPLE LCD INDICATIONS

```

| | | 1-25 | | | 11-598 | | | |
| | = | | | | | | | |
| 05 = | | | | | | | |
| 05 = 0 = | | | | | | | |
| 05 = 0 = 78 | | | | | | |
| | | 1-25 | | | 11-598 |
  
```

```

| | | 1-25 | | | 11-598 | | | |
| | = | | | | | | | |
| 05 = | | | | | | | |
| 05 = = 2 | | | | | | | |
| | | 1-25 | | | 11-598 |
  
```

To Verify

- Depress FNC key.
- Depress Feature Access key to check the contents of Feature Access key with LCD. (The LCD automatically returns to clock/calendar display in about 5 seconds.)

To Clear

- Depress FNC key.
- Depress LNR/SPD key.
- Depress desired Feature Access key.
- Depress FNC key.

To Originate

- Depress Feature Access key programmed for DSS/Speed Dial.

SAMPLE LED INDICATIONS

FNC LED lights.

FNC LED goes off.

FNC LED lights.

FNC LED flashes.

FNC LED goes off.

CO/PBX green LED winks.

SPKR LED lights.

SAMPLE LCD INDICATIONS

11-25 11-598

05=0=78

11-25 11-598

=

05=

11-25 11-598

11

78=5167537000

NOTE: Red LEDs of Feature Access Keys programmed for Direct Station Selection console, Microphone, Do Not Disturb and Call Forward when those features are in use.

2.23 Nesting Dial

Up to five Speed Dialling buffers can be stored into one Speed Dial buffer. These numbers can be sent successively by depressing the LNR/SPD key and then dialling the Speed Dial buffer number. Confirm if desired Speed Dial buffer number has already been programmed.

To Set

- Depress FNC key.
- Depress LNR/SPD key.
- Dial vacant buffer number.
- *Depress HOLD key.
- Dial desired Speed Dialling buffer number (When successive programming is needed, go back to *).
- Depress FNC key.

To Verify

See section 2.21 of this manual (Speed Dialling).

To Originate

See section 2.21 of this manual (Speed Dialling).

NOTE: Some combinations of Nesting Dial can not be performed.

Possible Combinations

Speed Dialling buffer A

B	C	D	E	F
---	---	---	---	---

: Up to 5 (buffers can be set)

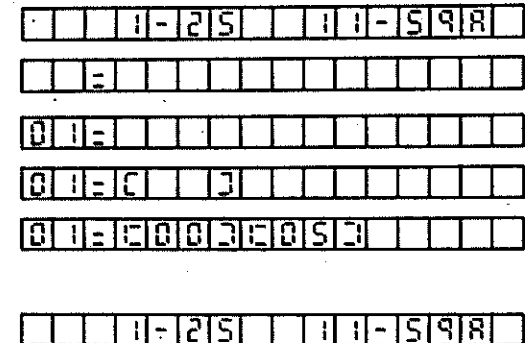
SAMPLE LED INDICATIONS

FNC LED lights.

FNC LED blinks.

FNC LED goes off.

SAMPLE LCD INDICATIONS



SAMPLE LED INDICATIONS

SAMPLE LCD INDICATIONS

Impossible Combinations

Speed Dialling buffer A

A	
---	--

 : Speed Dialling buffer A cannot be stored within its own buffer.

Speed Dialling buffer A Speed Dialling buffer B

B	
---	--

C	
---	--

Speed Dial buffer B cannot be stored in buffer A because buffer B already contains a Nesting Dial sequence (C).

NOTE: Station Speed Dial buffer cannot be nested in System Speed Dial buffer.

2.24 Station Background Music

To Set

- Depress FNC key.
- Dial access code 93 for BGM.
- Depress FNC key.
- Background Music is heard over station speaker.

To Cancel

- Depress FNC key.
- Dial access code 93 for BGM.
- Depress FNC key.
- Make sure that Background Music is no longer heard over station speaker.

NOTE: 1. This Feature Access Code is valid only when the data indicating that B.G.M is available is pre-stored in the system data base.

2. BGM sounds only when the station is idle or not rung when the call is terminated.

SAMPLE LED INDICATIONS

FNC LED lights.

FNC LED blinks.

FNC LED goes off.

FNC LED lights.

FNC LED blinks.

FNC LED goes off.

SAMPLE LCD INDICATIONS

1-25 11-598

bRC Snd on

1-25 11-598

bRC Snd OFF

2.25 Ringing Tone Variation Assignment

- Depress FNC key.
- Depress LNR/SPD key.
- Dial *.

- Dial 1.
- Dial ().

Tone Frequency:

- (1) = (low)
- (2) = (medium)
- (3) = (high)

- Depress FNC key.

SAMPLE LED INDICATIONS

- FNC** LED lights.
- FNC** LED flashes.
- FNC** LED goes off.
- SPKR** LED blinks.

- FNC** LED blinks.

FNC and **SPKR** LEDs go off.

SAMPLE LCD INDICATIONS

		1	-	2	5			1	1	-	5	9	8
		:											
		r	.	0	9			R	S	S	.	9	0

		1	-	2	5			1	1	-	5	9	8
--	--	---	---	---	---	--	--	---	---	---	---	---	---

2.27 Off Hook Ringing Assignment

- Depress FNC key.
 - Depress LNR/SPD key.
 - Dial *.

 - Dial 3.
 - Dial ().
- (0) - (No Ring)
(1) - (Ring)
- Depress FNC key.

2.28 Self Extension Number Confirmation

(Display phone only)

- Depress FNC key.
- Dial 4.

LCD displays Extension Number and Port Number at left and right sides, respectively. LCD goes back to clock/calendar display in about 5 seconds.

SAMPLE LED INDICATIONS

- FNC** LED lights.
- FNC** LED flashes.
- FNC** LED goes off.
- SPKR** LED blinks.
- FNC** LED blinks.

FNC and **SPKR** LEDs go off.

- FNC** LED lights.
- FNC** LED goes off.

SAMPLE LCD INDICATIONS

1-25 11-598

15 10

ring R S S . 9 n

OFF N r u g i n g

1-25 11-598

15 10

1-25 11-598

- After called station has answered, both parties

Depress **FNC** key

Dial 7

- Now operate modem/PC to initiate data transfer.
- When data transmission is complete, press **SPKR** key to return telephone to an idle condition (both parties).

NOTE: 1. See Chapter 2 in the Installation and Maintenance Manual for modem/PC connection.

2. Use only Telecom Approved, NEC recommended modems.

3. The modem must be set up to send DTMF (Tone) dialling.

4. The telephone number can be dialled before pressing the **FNC 7** sequence (press **FNC 7** after carrier signal has been received).

5. When **FNC 7** has been dialled and the modem has been used to dial the number, the SMDR does not record the dialled digits and toll restriction does not apply.

6. After the line has been switched to the data connection by dialling **FNC 7**, the following operations are inhibited until the CO/PBX line is disconnected:

- (1) Re-dialling a special number to re-switch the line to normal voice connection.
- (2) Hold
- (3) Hook flash (RECALL)

SAMPLE LED INDICATIONS

FNC LED lights.

FNC LED goes off

SPKR LED goes off.

SAMPLE LCD INDICATIONS

10 == (153) | | | | | | | |

| | 1-25 | | 11-598 |

To Hear Sent Message.

LCD shows Voice Mail.

- Depress **SPKR** key.
(or lift handset)
- Depress **FNC** key.
- Dial #.

Hear sent message twice over speaker (or by handset).

End of message

- Depress **SPKR** key.
(or restore handset)

SAMPLE LED INDICATIONS

FNC LED slow blinks.

ICM and **SPKR** LEDs light.
(or **ICM** LED lights).

FNC LED lights.

FNC LED blinks slowly

FNC LED goes off.

ICM and **SPKR** LEDs go off.
(or **ICM** LED goes off).

SAMPLE LCD INDICATIONS

12 53 26

10 - - 0 0

VOICE PLAY 0120

BUSY

53 26

1-25 11-598

NOTE: Voice Mail message is erased automatically after playback.

SAMPLE LED INDICATIONS

SAMPLE LCD INDICATIONS

To Clear

- Depress FNC key.
- Dial 79.
- Dial extension number to which Voice Mail is sent.
- Depress FNC key.

FNC LED lights.

FNC LED blinks.

FNC LED goes off.

LCD goes back to clock/calendar display in about 5 seconds.

				1	-	2	5					1	1	-	5	9	8	
--	--	--	--	---	---	---	---	--	--	--	--	---	---	---	---	---	---	--

				U	o	.	C	E		C	L	r			C			
--	--	--	--	---	---	---	---	---	--	---	---	---	--	--	---	--	--	--

				U	o	.	C	E		C	L	r			C	1	7	
--	--	--	--	---	---	---	---	---	--	---	---	---	--	--	---	---	---	--

				U	o	.	C	E		C	L	E	R	r	E	d		
--	--	--	--	---	---	---	---	---	--	---	---	---	---	---	---	---	--	--

				1	-	2	5					1	1	-	5	9	8	
--	--	--	--	---	---	---	---	--	--	--	--	---	---	---	---	---	---	--

NOTE: 1. Dial 98 instead of 79 will erase all Voice Mail messages in the system (Ports 10 and 11 only).

2. Backup Battery is provided to retain the recorded messages during power outages for up to one hour when fully charged.

2.32 Manual Answering Message

- When the called party cannot answer the incoming CO call immediately, an answering message (1 type) is sent out by operation on the telephone of the called party.
- After the message has been sent once, ordinary hold tone is sent from the system automatically.
- While sending an answering message, hold message or voice mail cannot be sent.

To send

with CO/PBX call in progress and another call incoming

- Depress FNC key.
- Depress CO/PBX line key associated with flashing LED.

To Answer the Held Line

- Depress CO/PBX Line key associated with flashing LED.
- Use handset to respond.

SAMPLE LED INDICATIONS

FNC LED lights.

CO/PBX green LED winks.

CO/PBX green LED winks.

SPKR LED lights.

SPKR LED goes off.

CO/PBX green LED lights.

SAMPLE LCD INDICATIONS

00-09

12

12

00-09

2.33 Message Waiting

Each Direct Station Selection/Busy Lamp Field (DSS/BLF) Console can be programmed to provide Message Waiting indication to the Key Telephones within the system. A Message Waiting Indication is provided on the FNC key of the Key Telephone.

To Answer a Message Waiting call

- With station in idle position
- Press SPKR key
- Press # key
- Lift handset to converse with attendant

NOTE: To set Message Waiting Indication, see Attendant Operation Section 3.6.

SAMPLE LED INDICATIONS

FNC red LED flashes.

ICM and **SPKR** LEDs light.

FNC red LED goes off.

SPKR LED goes off.

SAMPLE LCD INDICATIONS

			1	-	2	5		1	1	-	9	9	R
--	--	--	---	---	---	---	--	---	---	---	---	---	---

			1	5	-	-	[]				
--	--	--	---	---	---	---	---	--	---	--	--	--	--

			1	5	-	-	[1	0]			
--	--	--	---	---	---	---	---	---	---	---	--	--	--

			1	5	=	=	[1	0]			
--	--	--	---	---	---	---	---	---	---	---	--	--	--

SAMPLE LED INDICATIONS

SAMPLE LCD INDICATIONS

3 ATTENDANT OPERATION

DSS/BLF Consoles can be connected to any type of station (display type is recommended), maximum of 2 Consoles.

3.1 CO/PBX (Outside) Calls

See Section 2.1 of this manual.

3.2 Extension (Internal) Calls

3.2.1 Originating

- Lift handset.
- Depress DSS key on the DSS/BLF Console, to call the desired extension.
- If the call is not answered, another DSS key can be depressed to place another extension call (chain calling).

ICM LED lights.

DSS red LED lights.

DSS red LED goes off and another

DSS red LED lights.

10--C 3

10--C 153

10--C 203

3.2.2 Answering, Hold, Abandoning

See Section 2.2 of this manual.

3.3 Attendant Transfer

With call in progress

- Depress **DSS** key on the **DSS/BLF** Console, to Transfer the call; call on nonexclusive hold.
- Voice Announcement or ring back tone is heard.
- Depress **RECALL** key on the Key Telephone before party answers.

When transferring a call to an extension, the line key will remain reserved (on hold) until answered at called extension.

- OR -

- Depress **RECALL** key on the Key Telephone after party answers.

Upon completing Transfer, the line key LED indication changes as follows:

- **CO/PBX** line key:
I-Hold (green) → Lit (red)

SAMPLE LED INDICATIONS

CO/PBX green LED winks.

CO/PBX green LED winks intermittently.

DSS red LED lights.

CO/PBX red LED blinks.

DSS red LED remains lit.

CO/PBX red LED lights.

DSS red LED remains lit.

SAMPLE LCD INDICATIONS

00-59

10--CISJ

10--C J

10--C J

3.4. Originating Internal Zone Paging

- Depress SPKR key.
- Depress Internal Zone Paging key on the DSS/BLF Console.
- Lift handset to page.

ALL Key
Telephones : DSS/BLF key No. 25

Zone 1 : DSS/BLF key No. 26

Zone 2 : DSS/BLF key No. 27

Zone 3 : DSS/BLF key No. 28

SAMPLE LED INDICATIONS

SPKR , **ICM** and **DSS**

LEDs light.

DSS red LED lights.

SPKR LED goes off.

SAMPLE LCD INDICATIONS

10--C 3

10--C 703 .P 8LL

3.5 Originating External Zone Paging

- Depress **SPKR** key.
- Depress **External Zone Paging** key on the DSS/BLF Console.
- Lift handset to page.

NOTE : External Zone Paging key on DSS/BLF Console enables only All Zones.

SAMPLE LED INDICATIONS

SPKR , **ICM** and **DSS**

LED lights.

EP red LED lights.

SPKR LED goes off.

SAMPLE LCD INDICATIONS

10--[] [] [] [] [] [] [] []

10--[75] EP ALL

3.6 Message Waiting

SAMPLE LED INDICATIONS

SAMPLE LCD INDICATIONS

To Set

- Depress **MSG** key on the DSS/BLF Console.
- Depress **DSS** key(s) on the DSS/BLF Console where you want to leave a message.
- Depress **MSG** key on the DSS/BLF Console.

- MSG** LED lights.
- DSS** green LED(s) will light.
- MSG** LED goes off.

To Cancel

- Depress **MSG** key on the DSS/BLF Console.
- Depress the **DSS** key(s) on the DSS/BLF Console.
- Depress **MSG** key on the DSS/BLF Console.

- MSG** LED lights.
- DSS** green LED(s) will go off.
- MSG** LED goes off.

NOTE: To answer Message Waiting Calls, see Key Telephone Operation Section 2.33.

3.7 Night Transfer

To Set

- Depress NT key on the DSS/BLF Console during day mode.

LCD goes back to clock/calendar display in about 5 seconds.

To Cancel

- During night mode.
- Depress NT key on the DSS/BLF Console.

LCD goes back to clock/calendar display in about 5 seconds.

SAMPLE LED INDICATIONS

NT LED lights.

NT LED is lit steady.

NT LED goes off.

SAMPLE LCD INDICATIONS

nt SET

1-24 10-59P

1-25 10-59P

nt CLEAR

1-25 10-59P

4 SYSTEM PROGRAMMING

Station programming is available to the assigned stations (Telephone Port No. 10 and 11).

4.1 Night Transfer

To Set

- Depress FNC key during day mode.
- Dial access code 80 for night mode.
- Depress FNC key.

FNC LED lights.

FNC LED flashes.

FNC LED goes off.

SAMPLE LCD INDICATIONS

			1	-	2	5			1	1	-	5	9	8	
--	--	--	---	---	---	---	--	--	---	---	---	---	---	---	--

			8	0											
--	--	--	---	---	--	--	--	--	--	--	--	--	--	--	--

To Cancel

- Depress FNC key during night mode.
- Dial access code 80 for day mode.
- Depress FNC key.

FNC LED lights.

FNC LED flashes.

FNC LED goes off.

			8	0					1	1	-	2	5		
--	--	--	---	---	--	--	--	--	---	---	---	---	---	--	--

			8	0											
--	--	--	---	---	--	--	--	--	--	--	--	--	--	--	--

SAMPLE LED INDICATIONS

SAMPLE LCD INDICATIONS

4.2 Call Forwarding

4.2.1 To Set/Verify

- See Section 2.20 of this manual.

4.2.2 To Cancel System Wide Call Forwarding

- Depress FNC key.
- Dial access code 68.
- Depress FNC key.

- FNC** LED lights.
- FNC** LED flashes.
- FNC** LED goes off.

4.3 Call Back Request

To Cancel System Wide Callback Requests

- Depress FNC key.
- Dial 88.
- Depress FNC key.

- FNC** LED lights.
- FNC** LED blinks.
- FNC** LED goes off.

CF SYS CLR

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CF SYS CLR

4.4 Programming System Speed Dial

An Attendant can program, erase and verify System Speed Dial. All Key Telephones can be programmed to verify System Speed Dial by system programming.

See Section 2.21 (Station Speed Dialing) of this manual. For System Speed Dial buffers use numbers (20 - 99).

SAMPLE LED INDICATIONS

SAMPLE LCD INDICATIONS

(9) Day of Week Setting : Dial 1
(See Note)

(10) Year Setting : Dial 1,9,8,8

(11) Depress FNC key.

FNC LED goes off.

2-09 1988

2-09 1988

2-09 10-15P

NOTE: The day of the week is shown by number as follows.

0 : SUN	4 : THU
1 : MON	5 : FRI
2 : TUE	6 : SAT
3 : WED	

4.6 Security Alarm

Two alarm circuits are provided in the system as an option.

When the alarm circuit is activated, this option provides an audible alarm through all idle Key Telephone speakers.

The alphanumeric display on all Key Telephones with displays indicates which alarm circuit has been activated.

Only the port number 10 and 11 Key Telephone can cancel the alarm signal.

To cancel the audible signal.

- Depress FNC key.
- Dial 78.
- Depress FNC key.
- Sensor input returns to normal condition.

NOTE: The alarm sound can be cancelled by this operation, but the visual alarm indication continues until the sensor input returns to a normal condition.

SAMPLE LED INDICATIONS

FNC LED lights.

FNC LED blinks.

FNC LED goes off.

SAMPLE LCD INDICATIONS

SEC ALI

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SAMPLE LED INDICATIONS

SAMPLE LCD INDICATIONS

4.7 Automatic/Manual Answering Message

(1) Automatic answering messages

- Any incoming CO call during the early morning, night-time or a holiday is automatically answered and a message is sent out. The line is automatically cut after the message has been sent.
- Automatic answering is used in three modes such as the night mode and early morning mode for weekdays and the holiday mode for holidays and one message can be recorded in each mode. (When the times are set at the installation stage, the mode is switched automatically.)
- Setting the holiday mode resets the night mode.

(2) Manual answering mode

- When the called party cannot answer the incoming CO call immediately, an answering message (1 type) is sent out by operation on the telephone of the called party.
- After the message has been sent, ordinary hold tone is sent from the system automatically.

SAMPLE LED INDICATIONS

SAMPLE LCD INDICATIONS

- (3) Only the port number 10 and 11 key Telephones can set, verify, and cancel these features.
- (4) Backup Battery is provided to retain the recorded messages during power outages for up to one hour when fully charged.

SAMPLE LED INDICATIONS

SAMPLE LCD INDICATIONS

4.7.1 Night Mode/Holiday Mode

To Set

- Depress FNC Key.
- Dial 8.
- Dial access code.
 - (1) - (for night mode)
 - (2) - (for holiday mode)

FNC LED lights.

FNC LED blinks.

- Depress FNC key.

When the night mode or holiday mode is set,

FNC LED goes off.

CO/PBX LEDs assigned at the time of installation blinks.

To Reset

- Repeat the Setting operation.

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ROUTER RNS 1 SET

or

ROUTER RNS 2 SET

ROUTER RNS 1 CLR

or

ROUTER RNS 2 CLR

To Verify

- Depress **SPKR** Key (or lift handset).
- Depress **FNC** key.
- Dial 71.
- Dial access code.
 - 1 for Automatic Answering Message night mode
 - 2 for Automatic Answering Message early morning mode
 - 3 for Automatic Answering Message holiday mode
 - 4 for Manual Answering mode.
- Depress **FNC** key.
- Playback recorded message through built-in speaker (or handset).
- Playback is over.
- Depress **SPKR** Key (or restore handset).

NOTE: 1. Playback of the message can be forcibly stopped by going on-hook or by depressing the **SPKR** key to OFF.
2. You can freely switch between the handset and speaker.

SAMPLE LED INDICATIONS

ICM and **SPKR** LEDs light.
(or **ICM** LED lights.)

FNC LED lights.

FNC LED blinks.

FNC LED lights.

FNC LED goes off.

FNC LED lights.

ICM and **SPKR** LEDs go off.
or **ICM** LED goes off.

SAMPLE LCD INDICATIONS

HO--C J

VOICE PLAY C J

VOICE PLAY C J

655

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SAMPLE LED INDICATIONS

SAMPLE LCD INDICATIONS

To Clear

- Depress FNC key.
- Dial 72.
- Dial access code.
 - 1 for Automatic Answering Message night mode.
 - 2 for Automatic Answering Message early morning mode
 - 3 for Automatic Answering Message holiday mode
 - 4 for Manual Answering mode.
- Depress FNC key.

LCD goes back to clock/calendar display in about 5 seconds.

FNC LED lights.

FNC LED blinks.

FNC LED goes off.

				1	-	2	5					1	1	-	5	9	8	
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				W	.	.	C	E		C	L	E	R		E	D		
--	--	--	--	---	---	---	---	---	--	---	---	---	---	--	---	---	--	--

				W	.	.	C	E		C	L	E	R		E	D		
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				W	.	.	C	E		C	L	E	R		E	D		
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				1	-	2	5					1	1	-	5	9	8	
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4.8 Voice Mail System Clear

- Depress FNC key.
- Dial 98.
- Dial FNC key.

LCD goes back to clock/calendar display in about 5 seconds.

NOTE: 1. Dialling 79 instead of 98 will erase a specified Voice Mail message only.
2. When the system data "Answering Message (Yes/No)" or "Hold Message (Yes/No)" is changed while there are recorded messages in the system, all of the messages will be erased.

SAMPLE LED INDICATIONS

- FNC** LED lights.
- FNC** LED blinks.
- FNC** LED goes out.

SAMPLE LCD INDICATIONS

11-25 11-59R

VOICE SYS CLR

11-25 11-59R

4.9 Hold Message for MOH

- Backup Battery is provided to retain the recorded messages during power outages for up to one hour when fully charged.
- When the incoming CO call has been placed on hold, a message, which is recorded in advance, is sent to the calling party once.
- After the message has been sent, ordinary hold tone is sent from the system automatically.
- Only the port number 10 and 11 key Telephones can set, verify, and cancel this feature.

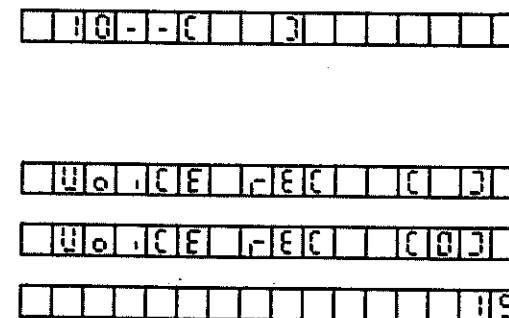
To Set

- Depress **SPKR** key (or lift handset).
- Depress **FNC** key.
- Dial 70.
- Dial 0.
- Depress **FNC** key.
- Record message through built-in microphone (or handset) (See Note 2).

SAMPLE LED INDICATIONS

- ICM** and **SPKR** LEDs light.
(or **ICM** LED lights.)
- FNC** LED lights.
- FNC** LED blinks.
- MIC** LED lights.
- FNC** LED lights.

SAMPLE LCD INDICATIONS



- Recording over (See Note 1).
- Depress SPKR key (or restore handset).

NOTE: 1. Recording of the message can be forcibly stopped by going on-hook or by pressing the SPKR key.
2. You can freely switch between the handset and microphone.

SAMPLE LED INDICATIONS

FNC and **MIC** LEDs go off.
ICM and **SPKR** LEDs go off.
(or **ICM** LED goes off.)

SAMPLE LCD INDICATIONS

6058
1-25 11-59R

SAMPLE LED INDICATIONS

SAMPLE LCD INDICATIONS

To Verify

- Depress SPKR key (or lift handset).
- Depress FNC key.
- Dial 71.
- Dial 0.
- Depress FNC key.
- Playback recorded message through built-in speaker (or handset) (See Note 2).
- Playback is over (See Note 1).
- Depress SPKR key (or restore handset).

ICM and **SPKR** LEDs light.
(or **ICM** LED lights.)

FNC LED lights.

FNC LED blinks.

FNC LED lights.

FNC LED goes off.

ICM and **SPKR** LEDs go off.
(or **ICM** LED goes off.)

1	0	-	-	7	1										
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W	o	.	C	E	P	L	A	Y	C	O					
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W	o	.	C	E	P	L	A	Y	C	O					
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b	u	S	y												
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		1	-	2	5			1	1	-	5	9	9		
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NOTE: 1. Playback of the message can be forcibly stopped by going on-hook or by pressing the SPKR key to OFF.
2. You can freely switch between the handset and speaker.

SAMPLE LED INDICATIONS

SAMPLE LCD INDICATIONS

To Clear

- Depress FNC key.
- Dial 72.
- Dial 0.
- Depress FNC key.

LCD goes back to clock/calendar display in about 5 seconds.

FNC LED lights.

FNC LED blinks.

MIC LED goes off.

11-25 11-598

W.O.C.E. CLEAR C D

W.O.C.E. CLEAR C D

W.O.C.E. CLEAR E d

11-25 11-598

5. FEATURE ACCESS CODE LIST

- Ⓐ : When key Telephone is idle:
- Ⓑ : When key Telephone has an intercom call in progress:
- Ⓒ : When key Telephone has a CO/PBX line call in progress:

<u>FEATURE</u>	<u>ACCESS CODE</u>	<u>STATUS</u>
(1) MIC ON/OFF	FNC → 1	Ⓐ
(2) Receiving Volume Control	FNC → 2	Ⓒ
(3) Seized Self CO/PBX line number display	FNC → 3	Ⓒ
(4) Self Station Number Confirmation	FNC → 4	Ⓐ
(5) Manual Pause	FNC → 4	Ⓐ
(6) Last CO/PBX Destination Number Redial	LNR/SPD → # or FNC → 5	Ⓒ
(7) Door Lock Release	FNC → 6	Ⓑ
(8) PC Connection	FNC → 7 → XX	Ⓒ
(9) Call Forward : Set/Cancel	FNC → 60 → Transferred Tel No. → FNC	Ⓐ
System Clear	FNC → 68 → FNC	Ⓐ from Ports 10 and 11
(10) Do Not Disturb(DND) Set/Reset	FNC → 65 → FNC	Ⓐ

<u>FEATURE</u>	<u>ACCESS CODE</u>	<u>STATUS</u>
(11) Hold Message for MOH	Set FNC → 700 → FNC	ⓑ, from Ports 10 and 11
	Verify FNC → 710 → FNC	ⓑ, from Ports 10 and 11
	Clear FNC → 720 → FNC	Ⓐ, from Ports 10 and 11
(12) Automatic Answering Message :	Set FNC → 701 → FNC (Night Mode)	ⓑ, from Ports 10 and 11
	FNC → 702 → FNC (Early Morning mode)	ⓑ, from Ports 10 and 11
	FNC → 703 → FNC (Holiday Mode)	ⓑ, from Ports 10 and 11
	Verify FNC → 711 → FNC (Night Mode)	ⓑ, from Ports 10 and 11
	FNC → 712 → FNC (Early Morning mode)	ⓑ, from Ports 10 and 11
	FNC → 713 → FNC (Holiday Mode)	ⓑ, from Ports 10 and 11
	Clear FNC → 721 → FNC (Night Mode)	Ⓐ, from Ports 10 and 11
	FNC → 722 → FNC (Early Morning Mode)	Ⓐ, from Ports 10 and 11
	FNC → 723 → FNC (Holiday Mode)	Ⓐ, from Ports 10 and 11

<u>FEATURE</u>	<u>ACCESS CODE</u>	<u>STATUS</u>
(13) Automatic Answering Night Mode Set/Reset	FNC → 81 → FNC	Ⓐ, from Ports 10 and 11
(14) Automatic Answering Holiday Mode Set/Reset	FNC → 82 → FNC	Ⓐ, from Ports 10 and 11
(15) Manual Answering Message : Set	FNC → 704 → FNC	Ⓑ, from Ports 10 and 11
Verify	FNC → 714 → FNC	Ⓑ, from Ports 10 and 11
Clear	FNC → 724 → FNC	Ⓐ, from Ports 10 and 11
Send	FNC → Line key	Ⓒ
(16) Voice Mail : Set	FNC → 77 → Destination Tel No. → FNC	Ⓑ, from Ports 10 and 11
Verify	FNC → * → Destination Tel No. → FNC	Ⓑ, from Ports 10 and 11
Retrieve	FNC → #	Ⓒ
Clear	FNC → 79 → Destination Tel No. → FNC	Ⓐ
System clear	FNC → 98 → FNC	Ⓐ, from Ports 10 and 11
(17) Security Alarm Reset	FNC → 78 → FNC	Ⓐ, from Ports 10 and 11

<u>FEATURE</u>	<u>ACCESS CODE</u>	<u>STATUS</u>
(18) Night Transfer Set/Cancel	FNC → 80 → FNC	Ⓐ
(19) Callback Request Cancel - System clear	FNC → 88 → FNC	Ⓐ, from Ports 10 and 11
(20) Printer Test	FNC → 9* → FNC	Ⓐ, from Ports 10 and 11
(21) Background Music Selection (ON/OFF)	FNC → 93 → FNC	Ⓐ
(22) FNC Lamp Reset	FNC → 99 → FNC	Ⓐ
(23) Storing Speed Dial Number into Memory	FNC → LNR/SPD → XX → YYY → FNC (20~99)	Ⓐ, from Ports 10 and 11
(24) Storing Speed Dial Number into Memory - Station	FNC → LNR/SPD → XX → YYY → FNC (00~19)	Ⓐ
(25) Speed Dial Number Confirmation	CNF → LNR/SPD → XX	Ⓐ
(26) Speed Dial Number Clear - System	FNC → LNR/SPD → XX → FNC (00~99)	Ⓐ, from Ports 10 and 11
(27) Speed Dial Number Clear - Station	FNC → LNR/SPD → XX → FNC (00~19)	Ⓐ
(28) Speed Dial Number Origination	LNR/SPD → XX (00~99)	Ⓐ
(29) Save Dial	FNC → #	Ⓒ
(30) Stock Dial	FNC → * → XXXX → FNC	Ⓐ
(31) Originating Save/Stock Dial	LNR/SPD → *	

<u>FEATURE</u>	<u>ACCESS CODE</u>	<u>STATUS</u>
(32) Speed Dial	LNR/SPD → XX	Ⓐ
(33) Storing Last CO/PBX Redial into Memory	FNC → LNR/SPD → XX → SPKR → FNC	Ⓐ
(34) Last CO/PBX Number Redial Confirmation	CNF → LNR/SPD → #	Ⓐ
(35) Ringing Tone Selection	FNC → LNR/SPD → * → 1 → X → FNC (X: 1:low, 2:Mid, 3:High)	Ⓐ
(36) Ringing Assignment (Day)	FNC → LNR/SPD → * → 2 → Line keys (0 or 1) → FNC	Ⓐ
(37) Off-Hook Ringing Assignment	FNC → LNR/SPD → * → 3 → Line keys (0 or 1) → FNC	Ⓐ
(38) Storing a DSS/Speed Dialling	FNC → LNR/SPD → Feature Access Key → X → XX	

(0 : CO/PBX Call) (Speed Dial buffer number)
(1 : Internal Call) (or extension number)

<u>FEATURE</u>	<u>ACCESS CODE</u>	<u>STATUS</u>
(39)DSS/Speed Dialling or Feature Access Code Confirmation	FNC → Feature access Key	A
(40)DSS/Speed Dialling or Feature Access Code clear	FNC → LNR/SPD → Feature Access Key → FNC	A
(41)Storing a Feature Access Code	FNC → LNR/SPD → Feature Access Key → # or 1 → Feature Access Codes → FNC (#: FNC + XX, 1: SPKR + XX)	A
(42)Nesting Dial:	Set FNC → LNR/SPD → XX (Vacant buffer Number) → *HOLD → Speed Dialling Buffer Number (When successive programming is needed, go back to*) → FNC	A
Verify	CNF → LNR/SPD → XX	A
Clear	FNC → LNR/SPD → XX → FNC	A
Originate	LNR/SPD → XX	A

<u>FEATURE</u>	<u>ACCESS CODE</u>	<u>STATUS</u>
(43) Interrupting and Call on CO/PBX	FNC → CNF → Line Key	(A)
(44) Switching DP to DTMF	* → #	(C)
(45) Callback Request	#	(B)
(46) Tone Override from Call Waiting	*	(B)
(47) Automatic Callback from Call Waiting	0	(B)
(48) Step Call from Call Waiting, Voice / Tone Calling	1	(B)
(49) CO/PBX Line Access	9	(B)
(50) Call Pickup - Incoming CO/PBX Call from Outside of group	60	(B)

<u>FEATURE</u>	<u>ACCESS CODE</u>	<u>STATUS</u>
(51) Call Pickup-Intercom	61	ⓑ
(52) Selection of a Designated CO/PBX Line	63 → x	ⓑ
(53) Trunk Queueing		
Set	64	Ⓐ
Reset	SPKR → 65	Ⓐ
(54) Call Pickup-Intercoming CO/PBX Line Inside of Group	66	ⓑ
(55) Call Pickup-Incoming PBX Line Inside of Group	68	ⓑ
(56) Call Pickup-Incoming CO Line Inside of Group	69	ⓑ
(57) Internal Paging-All Call	70	ⓑ

<u>FEATURE</u>	<u>ACCESS CODE</u>	<u>STATUS</u>
(58) Internal Zone Paging-Zone 1	71	Ⓟ
(59) Internal Zone Paging-Zone 2	72	Ⓟ
(60) Internal Zone Paging-Zone 3	73	Ⓟ
(61) Meet-Me, Internal and External	74	Ⓟ
(62) External Page-All Zones	75	Ⓟ
(63) External Page-Zone 1	76	Ⓟ
(64) External Page-Zone 2	77	Ⓟ
(65) PBX Line Access	80	Ⓟ
(66) Call Door Phone 1	81	Ⓟ
(67) Call Door Phone 2	82	Ⓟ

<u>FEATURE</u>	<u>ACCESS CODE</u>	<u>STATUS</u>
(69) Call for an Attendant (DSS/BLF) 1	86	ⓑ
(70) Call for an Attendant (DSS/BLF) 2	87	ⓑ