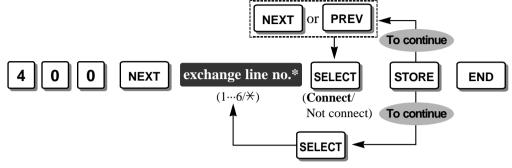
[400] Exchange Line Connection Assignment

Assigns which exchange line(s) is connected to the system or not.



* Exchange line number: 1 through 6 / * (All exchange lines)

Default All exchange lines – Connect



• Feature Reference Section 3, Features Outside Calling

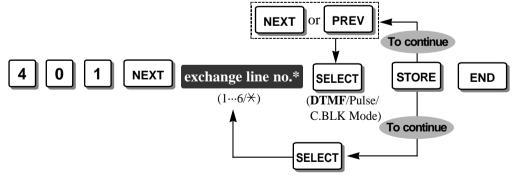
[401] Dial Mode

Selects the dialling mode, DTMF, Pulse or C. BLK (Call Blocking), for each exchange line.

DTMF: The dialling signals from an extension, either Tone or Pulse, are converted to Tone and transmitted to the Local Exchange. If the system is connected directly to the Local Exchange or installed behind a host PBX, which receives both Tone and Pulse, select this mode.

Pulse: The dialling signals from an extension, either Tone or Pulse, are converted to Pulse and transmitted to the Local Exchange.

C. BLK: If your Local Exchange can receive both DTMF and Pulse signals but the user are contracted for Pulse, select this mode. When dialling with a touch tone telephone, only Pulse signals are sent to the Local Exchange.



* Exchange line number: 1 through $6 / \times$ (All exchange lines)

Default All exchange lines – DTMF Mode

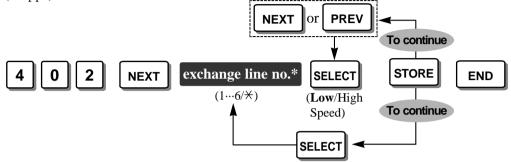


• Feature Reference Section 3, Features

Pulse to Tone Conversion

[402] Pulse Speed Selection

Selects a pulse rate for each exchange line which sets "Pulse Mode" or "Call block Mode" in program [401] "Dial Mode". There are 2 pulse rates, **Low Speed** (10 pps) and **High Speed** (20 pps).

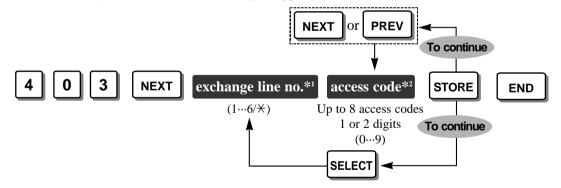


* Exchange line number: 1 through 6 / * (All exchange lines)

Default All exchange lines – Low Speed

[403] Host PBX Access Codes

If the system is installed behind a host PBX, each exchange line may require an access code to make an outside call. Up to 8 access codes can be stored for each exchange line. When the programmed codes are dialled, the pause time assigned in program [417] "Pause Time" is automatically inserted, and call barring is applied after the code.



- *¹ Exchange line number: 1 through 6 / ★ (All exchange lines)
- *2 Insert a "," for each code using the button on the overlay.

Example:

• Access codes 81, 82 on exchange line number 1

4 0 3 NEXT 1 8 1 , 8 2 STORE END

Default All exchange lines – Not stored

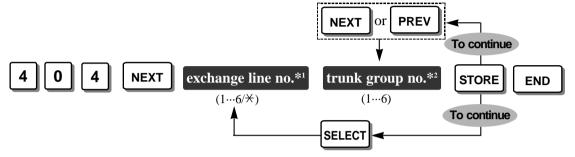
• To correct a wrong entry, press the CLEAR button and enter the new one.



• Feature Reference Section 3, Features Host PBX Access

[404] Trunk Group Assignment

Assigns a maximum 6 trunk groups. Each exchange line must be assigned to an trunk group. For example, if there are multiple telephone service companies available, exchange lines can be grouped by company.



- *1 Exchange line number: 1 through 6 / * (All exchange lines)
- *2 Trunk (TRK) group number: 1 through 6

Default Exchange line 1 through 6 – Trunk group 1 through 6



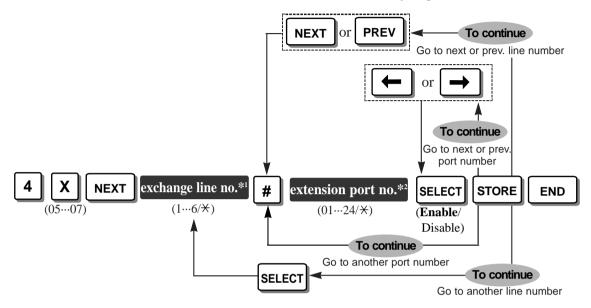
• Each exchange line can only belong to one trunk group.



• Feature Reference Section 3, Features Outside Calling

[405]-[407] Flexible Outward Dialling Assignment —Day/Night/Lunch

Determines which extension(s) can make an outside call in the day, night and/or lunch modes.



- **X** Program address selection number: 05 ([405] for day) / 06 ([406] for night) / 07 ([407] for lunch)
- *¹ Exchange line number: 1 through 6 / ★ (All exchange lines)
- *2 Extension port number: 01 through 24 / × (All extension ports)

Default All exchange lines – all extension ports – Enable

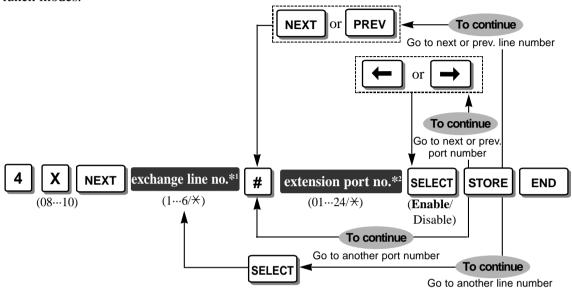


• Feature Reference

Section 3, Features
Outside Calling

[408]-[410] Flexible Ringing Assignment —Day/Night/Lunch

Determines which extension(s) will ring for incoming outside calls in the day, night and/or lunch modes.



- \mathbf{X} Program address selection number: 08 ([408] for day) / 09 ([409] for night) / 10 ([410] for lunch)
- *1 Exchange line number: 1 through 6 \times (All exchange lines)
- *2 Extension port number: 01 through 24 / × (All extension ports)

Default All exchange lines – all extension ports – Enable



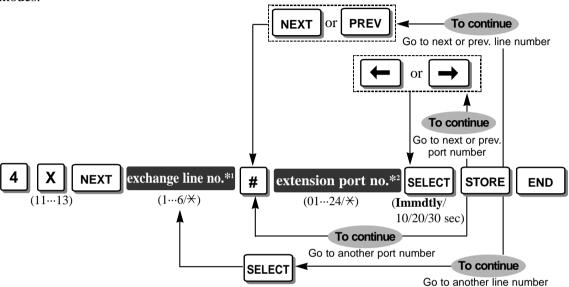
• Feature References

Section 3, Features

Exchange Line Ringing Selection, Uniform Call Distribution (UCD), Receiving Calls

[411]-[413] Delayed Ringing Assignment —Day/Night/Lunch

Assigns the ringing start time for extension(s) which were selected to ring in programs [408]-[410] "Flexible Ringing Assignment —Day/Night/Lunch" in the day, night and/or lunch modes.



- **X** Program address selection number: 11 ([411] for day) / 12 ([412] for night)/ 13 ([413] for lunch)
- *1 Exchange line number: 1 through $6 / \times$ (All exchange lines)
- *2 Extension port number: 01 through 24 / * (All extension ports)

Default All exchange lines – all extension ports – Immediately



• Feature Reference

Section 3, Features Receiving Calls

[414]-[416] Exchange Line Mode —Day/Night/Lunch

Selects the mode of an incoming outside call on each exchange Line in the day, night and lunch modes. There are the following 5 modes.

4.2

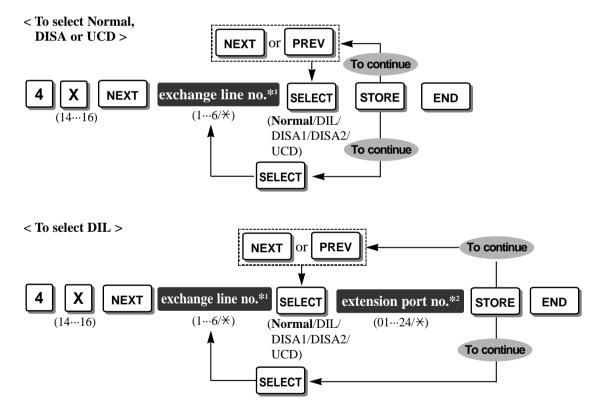
Normal: An incoming outside call will be received at the extension(s) assigned in programs [408]–[410] "Flexible Ringing Assignment — Day/Night/Lunch".

DIL: An incoming outside call will be received at the assigned extension in this program.

DISA1: An incoming outside call will be received at an extension through the DISA feature. A caller will hear a tone or an outgoing message.

DISA2: An incoming outside call will be received at an extension through the DISA feature. A caller might hear OGM 2; for various configurations please see Cases 2, 3 and 4 in Section 3, Features "Outgoing Message (OGM).

UCD: An incoming outside call will be received at an extension through the UCD feature.



X – Program address selection number: 14 ([414] for day) / 15 ([415] for night)/ 16 ([416] for lunch)

*¹ Exchange Line number: 1 through 6 / ★ (All exchange lines)

*2 Extension port number: 01 through 24 / \times (All extension ports)

Default All exchange lines – Normal

4.2 System Programming



- You must select "DISA1" when the optional OGM/FAX Detection card is not installed and if you want to use the internal DISA.
- When you select "UCD", assign program [520] "UCD Group" to determine which extension group is assigned to the UCD group.
- When you select "DISA1", "DISA2" and/or "UCD", assign program [502] "OGM Mode Selection" to determine which OGM will be used.



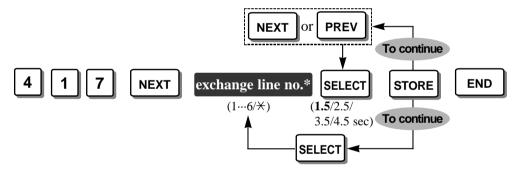
• Feature References

Section 3, Features

Direct In Line (DIL), Direct Inward System Access (DISA), Outgoing Message (OGM), Uniform Call Distribution (UCD)

[417] Pause Time

Assigns the length of the pause time. The programmed pause time is automatically inserted after a line access code, a host PBX access code programmed in [403] "Host PBX Access Codes" or a pause code assigned in [311] "Automatic Pause Insertion Codes" or can be manually inserted by the user using the PAUSE button.



* Exchange line number: 1 through $6 / \times$ (All exchange lines)

Default All exchange lines – 1.5 seconds

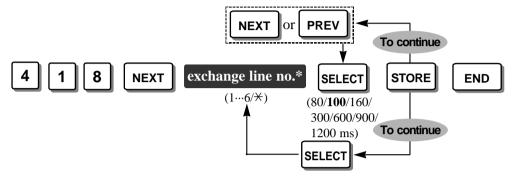


• Feature Reference

Section 3, Features Host PBX Access

[418] Recall Time

Assigns the length of the recall time. If your system is installed behind a host PBX, External Feature Access is necessary to obtain its services. To enable it, select the required recall signal sending time for an exchange line.



* Exchange line number: 1 through 6 / * (All exchange lines)

Default All exchange lines – 100 milliseconds



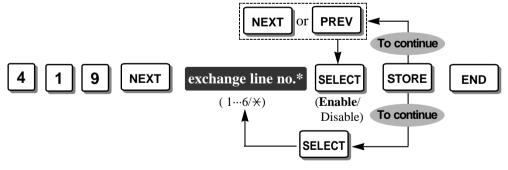
• Feature References

Section 3, Features

External Feature Access, Recall

[419] Automatic Designated Exchange Line Access

Selects which exchange line can be seized automatically when an extension user dials the Automatic Line Access number (0 or 9) assigned in program [121] "Automatic Exchange Line Access Number Selection".



* Exchange line number: 1 through 6 / * (All exchange lines)

Default All exchange lines – Enable



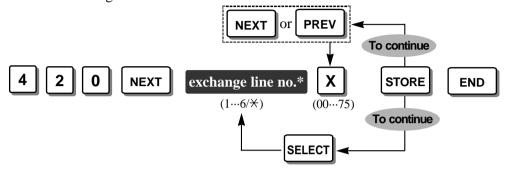
• Feature References

Section 3, Features

Automatic Exchange Line Access Number, Outside Calling

[420] Calling Party Control (CPC) Signal

Assigns the required minimum duration of the Calling Party Control (CPC) signal from the Local Exchange for incoming outside calls. If programmed, the system disconnects the line when the CPC signal is detected.



- * Exchange line number: 1 through 6 / × (All exchange lines)
- **X** CPC signal detect time selection number: **No.** = selection number

 Detect time (milliseconds)

No.	Detect time	No.	Detect time	No.	Detect time	No.	Detect time
00	Disable	19	166	38	318	57	470
01	22	20	174	39	326	58	478
02	30	21	182	40	334	59	486
03	38	22	190	41	342	60	494
04	46	23	198	42	350	61	502
05	54	24	206	43	358	62	510
06	62	25	214	44	366	63	518
07	70	26	222	45	374	64	526
08	78	27	230	46	382	65	534
09	86	28	238	47	390	66	542
10	94	29	246	48	398	67	550
11	102	30	254	49	406	68	558
12	110	31	262	50	414	69	566
13	118	32	270	51	422	70	574
14	126	33	278	52	430	71	582
15	134	34	286	53	438	72	590
16	142	35	294	54	446	73	598
17	150	36	302	55	454	74	606
18	158	37	310	56	462	75	614

Default All exchange lines – Disable (No. 00)



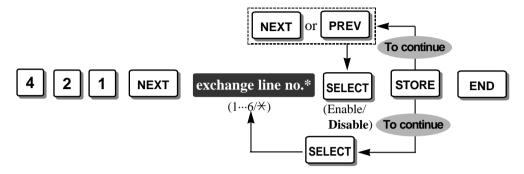
• Feature Reference

Section 3, Features

Calling Party Control (CPC) Signal Detection

[421] CPC Detection for Outgoing Calls

Enables or disables the CPC signal detection during an outgoing outside call. If disabled, the CPC signal detection is only activated during an incoming outside call or after call hold.



* Exchange line number: 1 through 6 / * (All exchange lines)

Default All exchange lines – Disable



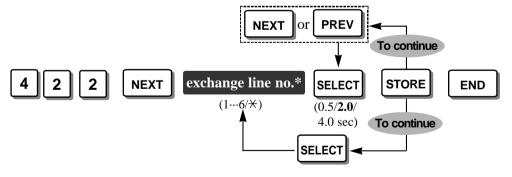
• Feature Reference

Section 3, Features

Calling Party Control (CPC) Signal Detection

[422] Disconnect Time

Determines the amount of time to send the disconnect signal from the system to the Local Exchange or host PBX. The time you select must be longer than the requirement of your Local Exchange or host PBX.



* Exchange line number: 1 through 6 / * (All exchange lines)

Default All exchange lines -2.0 seconds



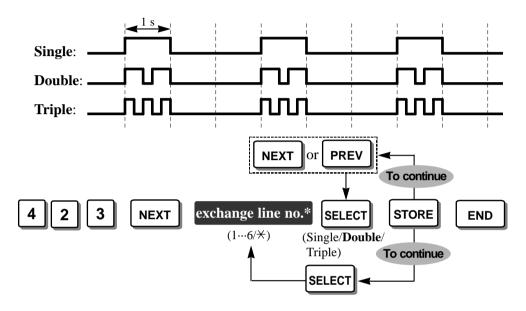
Feature Reference

Section 3, Features

Recall

[423] Exchange Line Ringing Pattern Selection

Selects the incoming outside call ringing pattern, **Single**, **Double** or **Triple**, for each exchange line. This is useful for distinguishing private calls from business calls.



^{*} Exchange line number: 1 through $6 / \times$ (All exchange lines)

Default All exchange lines – Double



• When selecting the ring pattern illustrated above, we recommend that other ring patterns of the system be considered. Namely, please consider the settings of [115] "Extension Ringing Pattern Selection" and [706] "Doorphone Ringing/Tone Pattern Selection".



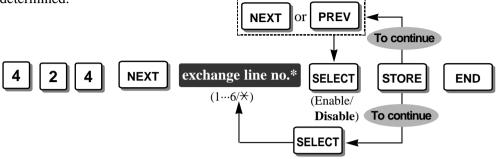
• Feature Reference

Section 3, Features

Ringing Pattern Selection

[424] Reverse (Polarity) Circuit Assignment

Enables or disables detecting the reverse signal for each exchange line's polarity from the Local Exchange when making a call. If enabled, the outside call duration can be determined.



* Exchange line number: 1 through 6 / × (All exchange lines)

Default All exchange lines – Disable



• Feature Reference

Section 3, FeaturesPolarity Reverse Detection

[500] DISA Incoming Dialling Mode Selection

Selects the destination of an incoming outside call via the DISA feature when you select "DISA 1" or "DISA 2" in programs [414]-[416] "Exchange Line Mode –Day/Night/Lunch", **Without AA** (auto attendant) or **With AA**. If you select "With AA", assign the next program [501] "DISA Built-in Auto Attendant".

Without AA: Available destinations are: extension numbers assigned in program [009] "Extension Number Assignment" and the operator number (0 or 9).

With AA: Available destinations are: numbers available in the "Without AA" mode, and numbers (0 through 9) assigned in program [501].



Default Without AA



- For example: in the "With AA" mode, if a number is not dialled within the programmed time in [517] "DISA AA Wait Time" after dialling 1, the call is received at the DISA built-in auto attendant number 1.
- In the "With AA" mode, if 0 or 9 is not assigned in program [501], the system recognises them as a the operator number.



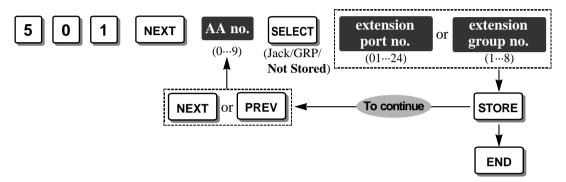
• Feature Reference

Section 3, Features

[501] DISA Built-in Auto Attendant

Assigns a maximum of 10 DISA built-in auto attendant numbers when "With AA" is selected in program [500] "DISA Incoming Dialling Mode Selection". The extension numbers assigned in program [009] "Extension Number Assignment", and the extension group numbers assigned in program [600] "Extension Group Assignment" can be assigned as a 1 digit number and used as DISA built-in auto attendant numbers.

4.2



Default All auto attendant numbers – Not stored



• If you would like to use the operator number in the "With AA" mode, do not assign auto attendant number(s) which correspond to the operator number (0 or 9).



• Feature Reference

Section 3, Features

[502] OGM Mode Selection

Selects how the 2 outgoing messages (OGM1 and OGM2) are used, **MODE1** through **MODE6**.

Mode	OGM1	OGM2	Description
1	DISA1	DISA1	The system can receive 2 incoming calls via the DISA feature at the same time. This is useful when receiving many calls.
2	DISA1	DISA2	An example: DISA1 is used in the day mode and DISA2 is used in the night mode.
3	UCD	UCD	The system can hold up to 2 incoming calls via the UCD feature at the same time until any extension is available.
4	UCD	UCD- END	The system disconnects an incoming call via the UCD feature when the assigned waiting time in [521] "UCD Busy Waiting Time" expires.
5	UCD	DISA1	An example: UCD is used in the day mode and DISA1 is used in the night mode.
6	UCD	DISA	The system leads an incoming call via the UCD feature to the DISA feature by OGM2 when the assigned waiting time in [521] "UCD Busy Waiting Time" expires and "Intercept" is selected in [523] "UCD Busy Mode".



Default MODE1



- Programs [414]-[416] "Exchange Line Mode Day/Night/Lunch" are used to assign "DISA1", "DISA2" or "UCD" to each exchange line according to this assignment.
- UCD-END is automatically used when "UCD" is assigned in programs [414]-[416], "Disconnect" is selected in program [523] "UCD Busy Mode", and "MODE4" is selected in this program.
- DISA is automatically used when "UCD" is assigned in programs [414]-[416], "Intercept" is selected in program [523], and "MODE6" is selected in this program.
- If the optional OGM/FAX Detection card is not installed, this assignment should be "MODE1".



• Feature References

Section 3, Features

Direct Inward System Access (DISA), Outgoing Message (OGM), Uniform Call Distribution (UCD)

[503] FAX Connection *1

Assigns one extension which can receive facsimile data when the system receives a FAX (CNG) tone via the DISA feature.

5 0 3 NEXT extension port no. STORE END

Default Disable (Not assigned)



- The assigned extension will automatically have the Data Line Security feature set.
- To unassign an extension port number, press the CLEAR button in the extension port number step.



• Feature References

Section 3, Features

Data Line Security, Direct Inward System Access (DISA)

[504] DISA Delayed Answer Time

Sets the time from a call being received and answered with the DISA feature.

5 0 4 NEXT SELECT STORE END

Default 3 seconds



• Feature Reference

Section 3, Features

Direct Inward System Access (DISA)

[505] DISA Waiting Time after OGM *1

Assigns the length of time the system keeps detecting the DTMF signals or FAX (CNG) tone after the DISA outgoing message is completed.

5 0 5 NEXT SELECT STORE END

Default 5 seconds



• Feature Reference

Section 3, Features

[506] DISA Busy Mode

Selects the operation when a called extension or all called extensions in an extension group enabled in program [100] "Hunting Group Set" via the DISA feature is/are busy.

Disconnect, Call Waiting or DISA2 is available.

Disconnect: The call is disconnected after the busy tone.

Call Waiting: A call waiting tone is sent to the called extension or first called extension

in the hunting group.

DISA2: OGM2 is sent to the caller and the system waits for another destination

when the first destination is busy.

5 0 6 NEXT SELECT STORE END

Call Waiting/ DISA2)

Default Disconnect

!

• Program [502] "OGM Mode Selection" should be "MODE2", if "DISA2" was selected in this program.

• Feature References

Section 3. Features

Direct Inward System Access (DISA), Outgoing Message (OGM)

[507] DISA Intercept Mode

Selects the operation when a called extension or extension group via the DISA feature does not answer a call within the length of time programmed in [508] "DISA Ringing Time before Intercept". **Intercept** or **Disconnect** is available.

Intercept: The call is redirected depending on [408]-[410] "Flexible Ringing

Assignment–Day/Night/Lunch" (Intercept Routing – No Answer feature). This is useful for business use. For example, the call is forwarded to the

operator or a Voice Processing System automatically.

Disconnect: The call is disconnected. This is useful for users who do not want to forward the call, for example, to a home.

5 0 7 NEXT SELECT STORE END

(Intercept/
Disconnect)

Default Intercept



• Feature References

Section 3, Features

Direct Inward System Access (DISA), Intercept Routing, Voice Mail Integration for KX-TVP100

[508] DISA Ringing Time before Intercept

Assigns the length of time for the Intercept Routing – No Answer feature ([507] "DISA Intercept Mode", Intercept). When the time expires the system starts to redirect the call to the programmed extension(s).

5 0 8 NEXT SELECT STORE END
(10/20/30/
40/60/120 sec)

Default 20 seconds



• Feature References

Section 3, Features

Direct Inward System Access (DISA), Intercept Routing

[509] DISA Ringing Time after Intercept

Assigns the length of time to call the extension(s) where a call is redirected by the Intercept Routing – No Answer feature([507] "DISA Intercept Mode", Intercept) after the time programmed in [508] "DISA Ringing Time before Intercept" expires. If the call is not answered within the programmed time, the call will be disconnected.

5 0 9 NEXT SELECT STORE END
(10/20/30/
40/60/120 sec)

Default 20 seconds



• Feature References

Section 3, Features

Direct Inward System Access (DISA), Intercept Routing

[510] DISA No Dial Mode

Selects the operation when the system does not receive either DTMF signals or a FAX (CNG) tone after a programmed length of time. If the optional card is installed, then use program [505] "DISA Waiting Time after OGM". If the optional card is not installed, then use program [515] "Intercept Time for Internal DISA". **Intercept** or **Disconnect** is available.

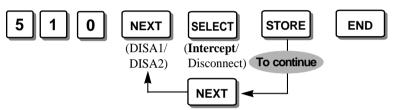
Intercept: The call is directed depending on programs [408]-[410] "Flexible Ringing

Assignment—Day/Night/Lunch" (Intercept Routing – No Answer feature).

The destination telephone(s) will ring for the time programmed in

[509] "DISA Ringing Time after Intercept".

Disconnect: The call is disconnected.



Default DISA 1 and DISA 2 – Intercept



• Feature References

Section 3, Features

Direct Inward System Access (DISA), Intercept Routing

[513] Cyclic Tone Detection*1

Assigns the number of times a cyclic tone is detected while the DISA outgoing message is sent so that the system can recognise the end of the DISA call.



* Disable (Does not detect)

Default 4 Times



• Feature References

Section 3, Features

Direct Inward System Access (DISA), Uniform Call Distribution (UCD)

[514] FAX Tone Detection*1

Sets the number of times the FAX (CNG) tone must be detected while the DISA outgoing message is sent before the system recognises the incoming signal as facsimile data.

5 1 4 NEXT SELECT STORE END

(1 Time/2 Times)

Default 1 Time

• The extension which can receive facsimile data must be assigned in program [503] "FAX Connection"

• Feature Reference Section 3, Features

Direct Inward System Access (DISA)

[515] Intercept Time for Internal DISA

Assigns the length of time the system keeps detecting DTMF signals after a call is received at the internal DISA. If the system does not receive DTMF signals within the programmed time, the call will be intercepted or disconnected according to program [510] "DISA No Dial Mode".

5 1 5 NEXT SELECT STORE END

Default 3 seconds

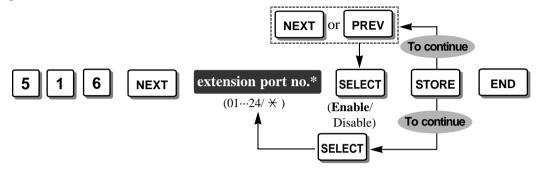
• A cyclic tone and FAX (CNG) tone cannot be detected by the internal DISA.

• Feature Reference

Section 3, Features

[516] DISA Incoming Assignment

Enables or disables each extension to receive an outside call via the DISA feature. If a DISA call is received at a disabled extension, the DISA caller will hear a reorder tone and the call will be disconnected automatically. For example, it may be convenient to disable the president's extension.



* Extension port number: 01 through 24 / × (All extension ports)

Default All extension ports – Enable



• If a call via the DISA feature is received by an extension group, this program will not work for extensions in that extension group. In this case, disabled extensions will still ring.



• Feature Reference

Section 3, Features

Direct Inward System Access (DISA)

[517] DISA AA Wait Time

Selects the time that the system waits for a second digit entry. If the programmed time expires, the system will assume that the first digit is a DISA built-in auto attendant number, if a number is assigned in program [501] "DISA Built-in Auto Attendant". For example, if a number is not dialled within the programmed time after dialling 1, the system will assume that "1" is the auto attendant number.



Default 2 seconds



• Feature Reference

Section 3, Features

[519] DISA OGM Mute Time

Assigns the length of time from answering a call with the DISA feature and sending the DISA outgoing message or a beep. During the assigned length of time, the system will not receive DTMF signals.

5 1 9 NEXT SELECT STORE END

Default 0 second



• Feature Reference

Section 3, Features

Direct Inward System Access (DISA)

[520] UCD Group*1

Assigns one extension group which works as the UCD group.

5 2 0 NEXT extension group no. STORE END

Default Extension group number 1



• Feature Reference

Section 3, Features

Uniform Call Distribution (UCD)

[521] UCD Busy Waiting Time*1

Assigns the length of time the system holds an incoming outside call via the UCD feature when all extensions in the UCD group are busy. When the programmed time expires, the call will be intercepted or disconnected according to program [523] "UCD Busy Mode".

5 2 1 NEXT waiting time* SELECT STORE END

* Waiting time: 1 through 32 (minutes) / 1 through 59 (seconds)

Default 10 minutes



• Feature Reference

Section 3. Features

Uniform Call Distribution (UCD)

[522] UCD OGM Message Interval Time*1

Assigns interval time between sending UCD outgoing messages to an incoming outside call via the UCD feature when all extensions in the UCD group are busy. The UCD outgoing message is repeated during the time programmed in [521] "UCD Busy Waiting Time".

5 2 2 NEXT SELECT STORE END

(30 sec/1/
1.5/2 min)

Default 1 minute



• Feature Reference

Section 3, Features

Uniform Call Distribution (UCD)

[523] *UCD Busy Mode**1

Selects the operation when the length of time programmed in [521] "UCD Busy Waiting Time" expires. **Intercept** or **Disconnect** is available.

Intercept: The call will be redirected depending on programs [408]-[410] "Flexible

Ringing Assignment–Day/Night/Lunch" (Intercept Routing feature). The extension which receives a redirected call rings during the length of time

programmed in [526] "UCD Ringing Time after Intercept".

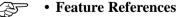
Disconnect: The call will be disconnected immediately.

5 2 3 NEXT SELECT STORE END

(Intercept/
Disconnect)

Default Intercept

• The above-mentioned intercept only occurs when "MODE 3" or "MODE 5" is selected in program [502] "OGM Mode Selection". If "MODE 4" is selected, the call will be disconnected after the UCD-END outgoing message. If "MODE 6" is selected and "Intercept" is assigned in this program, the call will go to the DISA and OGM2 will be heard by the caller.



Section 3, Features

Intercept Routing, Uniform Call Distribution (UCD)

[524] UCD Intercept Mode*1

Selects the operation when all extensions in the UCD group do not answer an outside call via the UCD feature within the length of time programmed in [525] "UCD Ringing Time before Intercept". **Intercept** or **Disconnect** is available.

Intercept: The call is redirected depending on programs [408]-[410] "Flexible Ringing Assignment–Day/Night/Lunch" (Intercept Routing – No Answer feature).

Disconnect: The call is disconnected.

5 2 4 NEXT SELECT STORE END

(Intercept/
Disconnect)

Default Intercept



• Feature References

Section 3, Features

Intercept Routing, Uniform Call Distribution (UCD)

[525] UCD Ringing Time before Intercept*1

Assigns the length of time for the Intercept Routing – No Answer feature ([524] "UCD Intercept Mode", Intercept). When the time expires, the system starts to redirect the call to the programmed extension(s).

5 2 5 NEXT SELECT STORE END

(10/20/30/
40/60/120 sec)

Default 20 seconds



• Feature References Section 3. Features

Intercept Routing, Uniform Call Distribution (UCD)

[526] UCD Ringing Time after Intercept*1

Assigns the length of time to call the extension(s) where a call is redirected by the Intercept Routing – No Answer feature ([524] "UCD Intercept Mode", Intercept) after the time programmed in [525] "UCD Ringing Time before Intercept" expires.

5 2 6 NEXT SELECT STORE END (10/20/30/40/60/120 sec)

Default 20 seconds



• Feature References

Section 3, Features

Intercept Routing, Uniform Call Distribution (UCD)