

STARPLUS® STS



Quick Start Guide

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INSTALLING & PROGRAMMING STS TELEPHONE SYSTEM

INSTALLING & PROGRAMMING STS TELEPHONE SYSTEM

- References to Installation can be found in the STS Installation Manual.
- References to Programming can be found in the STS Programming Manual, Section F.
(Refer to list of Flash Codes and Flexible Buttons, or Feature Codes for page number reference.)

INSTALLATION

1. Remove system and all equipment from boxes.
2. Inspect equipment for damage or broken parts.
3. Inventory equipment.
4. Use the template to mount BKSU/EKSU and mount to plywood backboard.
5. Install all Cards into proper card slots on the BKSU/EKSU.
6. Connect ground wire from grounding lug on left side of KSU to approved ground point as indicated in the STS installation manual.
7. Connect male and female amp connector to connectors on right side of BKSU/EKSU and punch down other end of cable to a 66-type block.
8. Cross connect (Jumpers) as required to station cabling and CO Interface. Bridge clip as necessary.

CO Pin out: (BKSU Only)

Cable Pair 1 = CO 1

Cable Pair 2 = CO 2 through Cable pair 12

Cable Pair 12 = CO 12

Cable Pair 20 = Alarm

Cable Pair 22 = External Page

Cable Pair 23 = External Music

Cable Pair 25 = Dry Contact Relay

CO Pin out: (EKSU Only)

Cable Pair 1 = CO 13

Cable Pair 2 = CO 14 through Cable Pair 12 = CO 24

Station Pin out: (BKSU)

Cable Pair 1 = Station 100

Cable Pair 2 = Station 101 through Cable Pair 24 = Station 123

Cable Pair 24 is blank

Station Pin out: (EKSU)

Cable Pair 1 = Station 124

Cable Pair 2 = Station 125 through Cable Pair 24 = Station 147

Built-in Analog Station Ports are two RJ11 jacks located on the right side of BKSU only.

These RJ11 jacks are for Stations 148 and 149.

9. Looking into the BKSU in the upper left area above the battery is the Blue / Red battery switch (SW4). Turn switch ON (down).
10. To the left on the battery switch is an Orange switch (SW5) with 8 dip switches. Make sure all 8 switches are ON (down).
11. Turn power ON. Let the phones power up and display is normal. Turn Dip Switch 8 OFF on the Orange Switch (SW5). System is now defaulted and ready to program. With Dip Switch 8 Off on SW5, system will retain program memory.

PROGRAMMING

- 12.** At Station 100, enter programming: * * **3226**
- 13.** Flex Buttons are as follows: Top row left button is “Flex Button 1” and to the right are “Flexible Buttons 2, 3, and 4”. The second row is Flexible Buttons 5 through 8 and etc., through “Flexible Button 24”.
- 14.** Press FLASH button and dial 24 (Card Slot Programming).
- 15.** Flexible Button 1 is Card Slot “0”; Flex Button 2 is Slot 1 and so forth. Card Slots 0, 1, 2 are built-in (4x8x2). Flex Button 4 is Card Slot 3. Program Card Slots 3 through 13 as required.

Enter the valid number for the type of card plugged into the current card slot, then Press “**HOLD**”.

- | | |
|----------------------------|-------------------------------------|
| [00]= None | [13] = SL04 (SLIB w/4 ports) |
| [02]= DTIB | [15] = LCI4 (LCOBC) |
| [04]= SL02 (SLIB w/2ports) | [17] = VMD1 (flash-based VMIB) |
| [09]= T1IB (see below) | [17] = VMD2 (hard drive-based VMIB) |

If the T1IB option is selected, enter a valid number (1-5) to specify the desired cluster (partial) quantity.

- | | |
|-----------------|--------------------------------|
| [1]= Cluster 4 | [4] = Cluster 16 |
| [2]= Cluster 8 | [5] = Cluster 20 |
| [3]= Cluster 12 | [No Entry] = All CO lines (24) |

Press HOLD to save entry. A confirmation tone sounds and the display updates. When finished, the system must be reset for these changes to take effect. Only FLASH 24 requires system to be reset.

NOTE: T1IB is not applicable with the STS Residential KSU System.

- 16.** A normal programming setup is as follows:

Several stations ring on incoming CO and if not answered, the Auto Attendant will answer. When a call is transferred to a person’s phone, if they do not answer, the call goes to that person’s voicemail box to leave a message. Below are the steps to accomplish this function. (See Programming Manual section “F”, Flash Codes and Flex Button Codes, or Feature Codes for page reference.)

- a.** * * 3226
- b.** FLASH 40
- c.** Enter COs to be programmed and press HOLD, or press HOLD to program all CO lines.
- d.** Display shows “CO Programming” and the range of lines that are being programmed plus “Page A”.
- e.** Press Flexible Button 13. This displays the stations that are assigned to ring on those CO lines. The default display shows S100**A** (Station 100 rings **A**ll the time).

- f. To program CO Line Ringing, press Flexible Button 10 (Page A).

Display shows DDDR:

DDD = number (*example:* Station **100**; Voicemail **440**)

R = Ringing mode

1=Day 2=Night 3=Day Night 4=Special 5=Day Special
6=Night Special 7=All times 0=Remove ringing

Normal setup is S100D = Station 100 rings Day (100 1 HOLD)

V440N = Voicemail ring Night (440 2 HOLD)

- g. Always check ringing Flexible Button 13. Change ringing, programming Flexible Button 10, then check ringing display Flexible Button 13 again to insure data is correct.
- h. To program CO lines to go to the Auto Attendant if not answered by Operator (Station 100), press Flexible Button 20. Display now shows Page "B".
- i. Press Flexible Button 5 (Pre-set Fwd). Enter 440 and press HOLD. Calls that are not answered will now go to the auto-attendant. Set the number of rings before the calls go to the auto-attendant.
- j. Press Flexible Button 21. Display now shows Page "C".
- k. Press Flexible Button 8. (Preset FWD Timer). Enter how many times the CO lines should ring before they transfer. (Remember that 4 seconds equals approx. one ring. Standard could be 16 (Four rings) Dial 16 and press HOLD.
- l. If a CO port is available (not used), that port should be placed in CO Line Group 00. (Not Used)
 - i. Press FLASH and dial 40.
 - ii. Enter COs that are not being used. (*Example:* Line 4, enter 004004 HOLD)
 - iii. Press Flexible Button 8 (CO Line Group) by default this is Group 01.
 - iv. Dial 00 and press HOLD. CO Line Group is now 00.
- m. To allow programming from any station:
 - i. Press FLASH and dial 50. Display will show "Station Programming. Enter station numbers. Press HOLD for all stations or dial the first and last station to program. (*example:* 100106 for Stations 100 through 106)
 - ii. Display will show "Page A; Enter Button Number"
 - iii. Press Flexible Button 18. Display shows ADMIN Access "Disable".
 - iv. Dial one (1) and press HOLD. Display changes to enable. (Programming can now be done from any station.)
- n. While in programming press FLASH and dial 50.
- o. As with COs, enter the range to be programmed (*example:* HOLD for all stations or 100110 HOLD for Stations 100 through 110).
- p. Display will show page "A". Press Flexible Button 20, display shows "Page B".
- q. Press Flexible Button 11. (Flexible Button Programming)

- r. To program a Flexible Button, dial the **button number**, function, *function code* and press HOLD (see examples),

Examples: Button 1 is Station 100 (Enter **01** 4 100 HOLD)

Button 12 is CO Line 4 (Enter **12** 1 004 HOLD)

Button 18 is a Loop Button (Enter **18** 2 HOLD)

Button 19 is Pool Button for CO Line Group 1 (Enter **19** 3 01 HOLD)

Button 24 is Voicemail Button (Enter **24** 4 440 HOLD)

Button 16 is a “multi use button” programmed by user (Enter **16** 0 HOLD)

- s. Program Flexible Button 24 as a Voicemail Button (440).
- t. Press Flexible Button 14 to display Flexible Buttons.
(Pressing Flexible Button several times will display all 24 Buttons.)
- u. Press Flexible Button 21, display now shows, “Page C”
- v. Press Flexible Button 1 (Internal No Answer FWD), and dial 440, HOLD.
- w. Press Flexible Button 2 (Internal Busy FWD), and dial 440, HOLD.
- x. Press Flexible Button 3, (External No Answer FWD) and dial 440, HOLD.
- y. Flexible Button 4, (External Busy FWD) is programmed only if station does not ring on incoming CO Line Ringing.

NOTE: Stations that DO NOT Ring on Incoming CO Lines can also be programmed at the station. Follow the information in the user guide to Call FWD station to voicemail.

- z. Press Flexible Button 5, “No Answer Timer”. Add 4 to the number of Rings.
For 3 rings, enter 12, HOLD.

VOICEMAIL PROGRAMMING

TWO PROGRAMMING METHODS (TOUCH TONE TELEPHONE AND/OR LAPTOP)

Laptop requirements: straight through DB9 “Serial Cable” with “Female Gender Bender”.
Hyper-Terminal is a communications program.

Some Laptop operating software may require the download of “Hyper-Terminal ver. 6.3 Private Edition” from Hilgreave.com (especially XP Professional).

Normal Voicemail Setup for a Day Greeting:

Thank you for calling _____ you have reached our voicemail system. If you know your party’s extension you may dial it now. If you know your parties name and not their extension press “4” for dial by name. If you do not know who to speak with press “0” and you will be connected with the operator. Thank you for calling _____ .

Normal Voicemail Setup for a Night Greeting:

Thank you for calling _____ you have reached our voicemail system. Our office is closed. Our normal office hours are Monday through Friday 8 AM to 5 PM Central Time. If you know your party’s extension you may dial it now. If you know you’re party’s name and not their extension press “4” for dial by name. If you do not know who to speak with press “0” (*Example only*; Mailbox 120) and you will be connected with our general mailbox. Thank you for calling _____ .

Set-up Hyper-Terminal following the instructions in the STS Programming Manual, Section “C”, Lap Top Programming or as listed below.

To set up Hyper-Terminal, select the following from Laptop:

1. Start; Programs; Accessories; Communications; Hyper-Terminal. Setup New Connection.
2. Name Connection and click **OK**.
3. Connect using “COM 1” and click **OK**.
4. Select Com Port Settings (9600, None, 8, 1, XON/XOFF) and click **OK**.
5. Click on File (top left) of Hyper-Terminal screen and select Properties.
6. Select Settings Tab, then choose Auto Detect as the Emulation.
7. Click on “ASCII Setup” button (lower right area on screen).
8. Uncheck Wrap Lines option and click **OK** (twice).
9. Exit Hyper-Terminal, then save entry.
10. Connect laptop to Voicemail through Hyper-Terminal using a straight through DB9 “**SERIAL** Cable”, with a “Female Gender Bender”.
11. At Hyper-Terminal window, press **ESC**. Enter password “0000”.
12. To move around programming the In-Skin voicemail the following keys are used:

ESC - TO exit a program.

ENTER In-Skin Voicemail Programming

To move around this program:

ENTER key - To save data

F1 key - To move to next page

F2 key - To moves back to previous page

F4 key - Deletes data

Arrow keys - to move up; down; left; and right

Type “Exit” to close Hyper-Terminal

13. Select Open & Close Schedule (item # 1).

- a. If Open Close time is correct, press **ESC**.
- b. If time needs to be changed, arrow to "Time" and press **F4**. Enter new time in military format. First Open, then Close. When finished press **ESC**.

14. Select Number Plan (item # 2)

NOTE: The CCR menu number at the top of the CCR Menu (1). Max of five (5) Menus F1 and F2 keys to move from one menu to another. "Y" next to first digit permission key is enabled. "N" key is disabled.

CCR Menu 1

- a. Digit 1 should be "Y"
- b. Digit 2, 3, 5, 6,7, 8, and 9 should be "N"
- c. Digit 4 should be "Y"
- d. Digit 0 should be "Y" and extension (0)
- e. Digit * and # should be "Y"
- f. Press **F1** for CCR Menu 2

CCR Menu 2

- g. Digit 1 should be "Y"
- h. Digit 2, 3, 5, 6,7, 8, and 9 should be "N"
- i. Digit 4 should be "Y"
- j. Digit 0 should be "Y" and Extension 120
- k. Digit * and # should be "Y"
- l. When finished press **ESC**.

15. Select Mailbox Assignments (item # 9)

- a. Arrow to Name & Name Mode.
- b. Enter the First then Last name of each user. Capitalize only the first letter of each name.
- c. To change Mode from Last name to First name, Arrow up to where cursor is under the "L" in Last. Press "F", then press **ENTER**. Last will change to "First".
- d. Arrow down to Mailbox 120.
- e. Arrow right to "Direct Xfer" column.
- f. The cursor is under the "O" in OFF.
- g. Press "1", then press **ENTER**. OFF changes to "ON".
NOTE: "ON" sends calls to mailbox, "OFF" sends calls to stations.
- h. Press **ESC**.

16. Type "Exit" from the Main Menu and press **ENTER.**

--- The voicemail system is now programmed. ---

Recording Auto Attendant Greeting

You are now ready to record your system (Auto Attendant) Greeting. You will need to record a greeting for the day mode (Greeting 1) and the night mode (Greeting 2)

1. To program via Telephone, access system administrator mailbox by dialing into the voicemail system (Station 150).
2. When voicemail answers, dial [*] + [#].
3. At the Prompt "Enter Your Mailbox Number".
4. Enter Administrator number [#] + [00].
5. System announces Mailbox 15-00, "Enter Your Password".
6. Enter System Admin password [9] + [#] + [56].
7. Press 1 for system greetings and follow instructions to record both the day and the night greeting. See example Greetings on previous pages, Day Greeting Number is – 1, Night Greeting Number is – 2

NOTE: The default greeting that follows your recorded greeting can be re-recorded by recording 5 seconds of silence. Recording 091= If you have a mailbox on this system press #. Recording 106 = Enter extension number of the party you are calling. For the directory press 4.

8. From Main Menu, press Item 8 to listen to Prompts. Press 7 to re-record Prompts.
9. When finished, hang-up.

--- The voicemail greetings are now recorded. ---

Programming Auto Attendant without using a Laptop

Refer to the previous greetings above. Omit the statement about pressing 4 for Dial by Name.

1. Enter programming the voicemail via telephone as listed above.
2. Record the Auto-Attendant greeting for both day and night.
3. Using the telephone the Main menu Item 8 allows you to listen to a system prompt and Item 7 allows you to re-record a system prompt.
4. To list a directory of users, verify (Item 8, listen to a prompt). Prompt 106 (enter extension number of the party you are calling. For the directory, press 4). Go to Item 7 (record a system prompt).
Re-record Prompt 106 (For Mary Jane dial 101, for Bill Martin dial 105, for Tim Brown dial 103, etc.).

This allows the customer to re-record names as required without having to re-record the main greetings.

NOTE: The default greeting that follows your recorded greeting can be re-recorded by recording 5 seconds of silence. Recording 091= If you have a mailbox on this system press #.

Program Telephones to Operate with the Voicemail

- References to Programming: See Programming Manual, Section F. (Refer to list of Flash Codes and Flexible Buttons, or Feature Codes for page reference.)

To program the voicemail (auto attendant) to answer incoming CO type calls, you must program CO Line Ringing and/or CO Line Preset Fwd.

1. Dial * * 3226.
2. Press FLASH and dial 40.
3. Enter the CO Lines to be programmed or press HOLD for all COs.
4. Display shows CO Line Programming Page "A".
5. Press Flexible Button 13 to display programmed ringing assignments.
6. Press Flexible Button 10 to program CO Line Ringing.

Display shows DDDR

DDD = number, Example Station **100**; Voicemail **440**

R = Ringing mode

1=Day, 2=Night, 3=Day Night, 4=Special, 5=Day Special, 6=Night Special, 7=All times, 0=Remove ringing

Normal setup is S100D = Station 100 rings Day (100 1 HOLD)

V440N = Voicemail ring Night (440 2 HOLD)

NOTE: If you haven't done so program Station Call Forward Busy/No Answer to voicemail box. Either accomplished at phone (see User Guide) or program FLASH 50, Page "C". If phones ring on incoming CO calls, program Call Fwd Busy and No Answer at FLASH 50, Page "C".

NOTE: Program Flexible Button 24 as a voicemail button. To program button from each telephone:

- a. Press the SPEED button twice.
- b. Press the flexible button to be programmed (Flexible Button 24).
- c. Dial 440.
- d. Confirmation tone heard. Button 24 is now programmed as personal voicemail button.

--- Programming is complete. ---

**COMMON
PROGRAMMING
ITEMS**

COMMON PROGRAMMING ITEMS

(References to Programming: See Programming Manual, Section F. Refer to list of Flash Codes and Flexible Buttons, or Feature Codes for page number reference.)

1. Admin Access

(To accomplish Flash programming from any telephone. By default Station 100).

At Station 100:

Dial * * 3226
FLASH 50
Enter station range to be programmed (display shows Page "A")
Press Flexible Button 18, "Admin Access".
Press 1, HOLD.

2. Attendant Display Timer

Time Display screen holds an item before it changes to the next screen. *Example:* Line 1 ringing; call answered, it changes to say Line 1. Changing this to a longer timer allows the operator to recognize the CO line she is on before the display changes to another screen.

* * 3226
FLASH 02, Button 2
(Default is 1 (sec). Suggested time 5 (sec))

3. Group Listening

Press **ON/OFF** while off hook. This turns on the speaker and turns off the microphone, so other people in the area can monitor the conversation. They can only listen, thus the term, "Group Listening".

* * 3226
FLASH 05, Button 9
(Default is disabled. Enter 1 to enable)

4. Attendant Station Assignment

Three max Attendant stations may be programmed on the system.

* * 3226
FLASH 10
(Default is station 100. Program as required.)

4. Attendant setting Time and Date

* * 3226
FLASH 11
Enter two digit format as listed below. The time is military time.
Enter YY MM DD HH MM (Year, Month, Hour, Minute)

Or dial feature code 692 from the attendant phone (Station 100 by default).
Enter YY MM DD HH MM

5. Set-up Modem Dialing to Voicemail (498)

** 3226
FLASH 67
Press Flex Button 6, then press 1 and HOLD.
Voicemail port is now enabled.

Use a null modem cable from Serial Port 2 (lower RS232) to the serial port on the voicemail.
Set up Hyper-Terminal to dial number into phone system.
Call must be answered and transferred to 498.
When 498 answers, press **ESC**. At password screen enter password (0000) and program as required.

** 3226
FLASH 24
Press Flex Button starting with Flex Button 4 (Card slot 3).
Enter proper Code for card installed in each card slot and press HOLD to save.

After all card slots are programmed, the system must be reset for those changes to take effect.

[00]= None	[13] = SL04 (SLIB w/4 ports)
[02]= DTIB	[15] = LCI4 (LCOBC)
[04]= SL02 (SLIB w/2ports)	[17] = VMD1 (flash-based VMIB)
[09]= T1IB (See Next Slide)	[17] = VMD2 (Pentium-based VMIB)

If the T1IB option is selected then enter a valid number (1-5) to specify the desired cluster (partial) quantity.

[1]= cluster 4	[4] = cluster 16
[2]= cluster 8	[5] = cluster 20
[3]= cluster 12	[No Entry] = All CO lines

6. CO Line Programming

** 3226
FLASH 40
Enter range to program (*example*: 001003 = Lines 1 through 3, press HOLD).
Just pressing HOLD is for all CO lines (001-028).

7. CO Line Ringing

** 3226
FLASH 40
Enter CO Line range to program.
To program CO Line Ringing, see page "A", Button 10.
To view CO Line Ringing Display, see page "A", Button 13.

DDDR:
(DDD = number, *example*: Station 100; Voicemail 440)
(R = Ringing mode): 1=Day; 2=Night; 3=Day Night; 4=Special; 5=Day Special; 6=Night Special; 7=All times; 0=No ringing

8. Preset Call Forward

Incoming CO Line rings on a phone or group of phones and if not answered the call would then be transferred to the Auto-Attendant based on the number on rings prior to transfer.

** 3226
FLASH 40
Enter CO Line Range to be programmed.
Page "B", (Flexible Button 20)
Press Flexible Button 5, Preset Forward Destination.
Enter 440 and Press HOLD. (440=Voicemail)

Next press Flexible Button 21, Page "C".
Press Flexible Button 8, Preset Forward Timer.
Enter data as required. (Example: 4 rings would be entry 16, press HOLD.)

9. CO Line Group

To remove CO Line ports in the system that do not have dial tone and is not used.

** 3226
FLASH 40
Enter CO Line range to be programmed.
Display shows Page "A".
Press Flexible Button 8, CO Line Group.
If CO port is not used, enter "00" and press HOLD.

10. Ring Delay Timer

Ring Delay is programmed to "06" on All CO Lines that use Caller ID. This allows the Caller ID data to appear on the telephone and the telephone to ring at the same time.

** 3226
FLASH 40
Enter CO Line range to program.
Press Flexible Button 21 Page "C".
Press Flexible Button 2, Ring Delay Timer.
Change to "06" and press HOLD.

Next Caller ID Name/Number Display

A Flexible Button must be programmed for Name/Number to appear on incoming calls. The feature code is 653. If the Button is pressed and the LED is ON, the display will show both Name and Number. Otherwise the button must be pressed to show the Name.

At telephone, press SPEED twice. Press the Flexible Button to be used. Dial 653. Confirmation tone should be heard.

11. Station Programming

** 3226
FLASH 50
Enter a range to be programmed (*example*:100102 for Stations 100 through 102, press HOLD or press HOLD to program all stations).

12. Flexible Button Programming

Examples:

- Dial 24 4 440 (This makes Button 24 Voicemail 440)
- Dial 06 1 001 (This makes Button 6 CO Line 1)
- Dial 20 2 (This makes Button 20 Loop Button)
- Dial 19 3 01 (This makes Button 19 Pool Line group 1)
- Dial 15 0 (This makes Button 15 Flex button user changeable, "Open")

13. Headset Mode

Change Speakerphone from Full Speakerphone to Disable. This does not disable the speakerphone it only allows it to be disabled when in the headset mode.

a. Speakerphone Mode

- * * 3226
- FLASH 50
- Enter the Station range to be programmed.
- Press Flexible Button 20 Display shows Page "B".
- Press Flexible Button 4, "Speakerphone".
- Default is 0 (Full Speakerphone). Change code to "2" (Disable).

b. Headset Mode

- (Still on Page "B")
- Press Flexible Button 18, "Headset Mode", (default is "0").
- 1 = 2.5mm jack located on top left side of phone.
- 0= Normal handset jack on side of phone.

c. Light Control

- The LED light above the display may be programmed for 5 separate functions.
- (Still on Page "B")
- Press Flexible Button 15, "Light Control".
- (Default is None. Change as required below and press HOLD.)
- 0= None
- 1= Button Incoming Ringing
- 2= Voicemail
- 3= Message Wait
- 4= Headset in use

d. Headset On/Off Button located on the phone

- Headset Feature Code is 634. This can be accomplished in Flash 50 Flexible Button Programming or at each phone press the Speed button twice and then press a Flexible Button to be to be used as the Headset Button (On/Off Mode) and dial 634).
- To place the phone in headset mode press the Headset Button (LED On) and use the phone ON/OFF Button to answer calls or disconnect from calls. While in the Headset Mode you can still use the Handset. Only the Speaker has been turned "OFF".
- To remove Headset Mode press the headset button again (LED off).

15. Name in Display

- Dial Feature code 690
- Enter a name up to seven digits. Letters are two digit input.
- (example: "A" = Dial 2 and 1; "B" = Dial 2 and 2; "C" = Dial 2 and 3. Space = 11)

16. Off Hook Preference

** 3226
FLASH 50
Enter stations to be programmed.
Press Flexible Button 20, Page "B".
Press Button 10.
Dial Button number (*example*: the Pool Button, Button 20 by default is a Pool Button).
Press 1 to enable, then press HOLD (*example*: 201).

17. Flexible Button Programming Station User Level

Press SPEED (twice).
Press desired Flexible Button to be programmed. Dial feature code (See Programming Manual).
(*Example*: SPEED, SPEED; press Flexible Button 24; dial 440) Flexible Button 24 = Voicemail Button.

18. Call Coverage

Press SPEED twice; Press Flexible Button to program and dial: 646 = Ringing (*example*: 646100)
647 = Non-Ringing (*example*: 647100)

Example: This was accomplished on Station 105. Then Station 105 would ring if Station 100 did not answer a ringing call and the call coverage system timer expired. This only covers the ringing of a station (100) and does not affect the other timers like no answer or etc.

19. Speed Dial Numbers

Each phone has 20 Bin Numbers for their personal numbers. (Bins 9000 through 9019). The system has 80 numbers for everyone to use. The last twenty Bin numbers are not Toll Restricted.

20. Multi Voicemail Buttons

Different mailbox buttons can be assigned to phones, like General Mailbox's and etc. When a message is in these mailbox's it light the LED also.

SPEED, SPEED, press desired Flexible Button and dial 460 + VMID (*example*: 460 150 for Mailbox 150)

21. Call Forward Busy / No Answer to Voicemail

This can be accomplished either at the phone (See user Guide for Call Forward Busy; No Answer; Busy/No Answer). If Incoming CO calls **DO NOT** ring on the phone, one way to program the phone for calls to go to your mailbox if away or on the phone. **IF** CO calls ring on the phone then they would need to be accomplished as below:

**3226
FLASH 50
Enter station range to be programmed.
Press Flexible Button 21, Page "C".
Flexible Button 1, Internal No Answer: Enter (440, HOLD)
Flexible Button 2, Internal Busy: Enter (440, HOLD)
Flexible Button 3, External No answer (440, HOLD)
Flexible Button 4, External Busy (Do Not Use)
Flexible Button 5 No answer timer (as required)

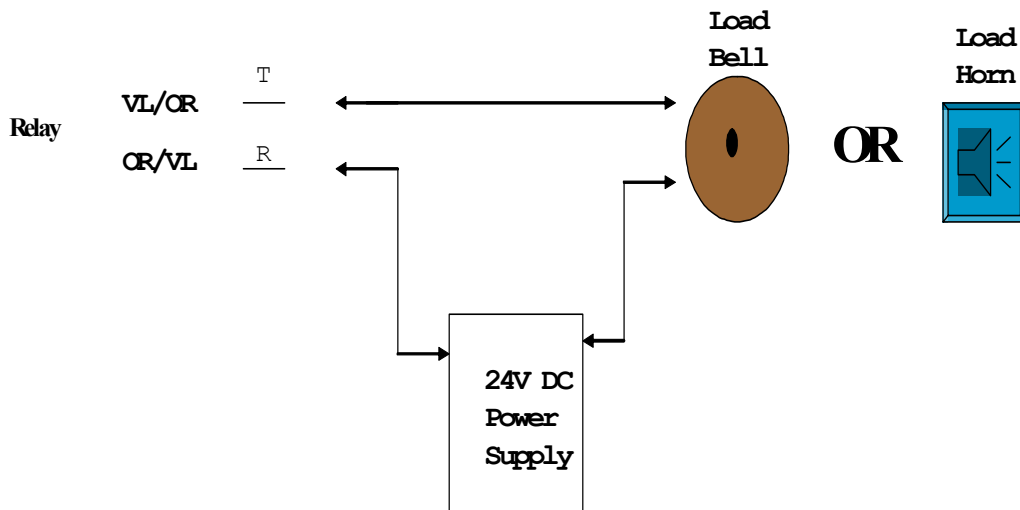
NOTE: Button 4 depends on stations that ring on Incoming CO calls.

PROGRAMMING & INSTALLING ACCESSORY DEVICES

External CO Line Ringing

CO Lines can be programmed to ring through the relay contact located on the COChamp connector pins VL/OR, OR/VL. Programming the relay is found in FLASH 14 and programming the CO Lines is found in FLASH 40. (See UDA or UNA)

Installation of external ringing:



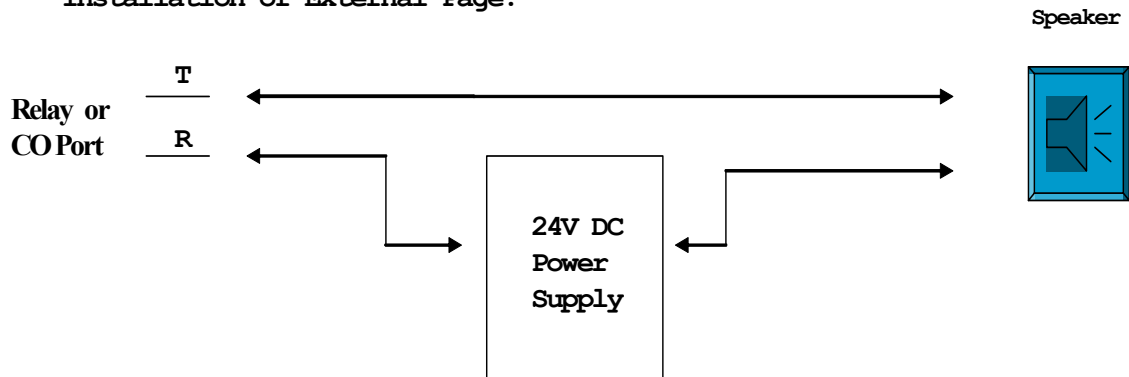
External Paging

The relay contact can be used for external paging. The dial code for external paging is 761. Programming the relay is found in FLASH 14. Installation of external page is the same as previous slide.

External page can also be programmed through a CO port. This is normal when a page control unit is used for several different page zones. When this procedure is used program the CO port (used for paging) to a CO line group other than the CO line group used for active CO lines (example CO line group 2). Programming of CO Line group found in FLASH 40. Identify the CO port on a flexible button as external page.

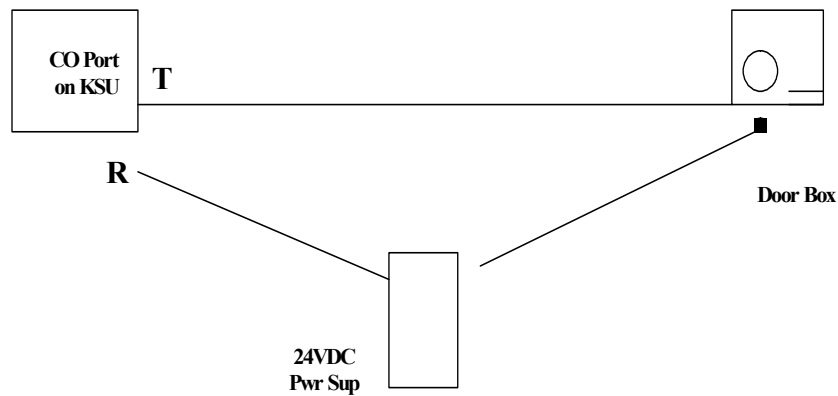
NOTE ... Stations allowed to external page must be allowed access to the Line group identified for external page, FLASH 50. (See Multi-Zone Page Control slide also.)

Installation of External Page:



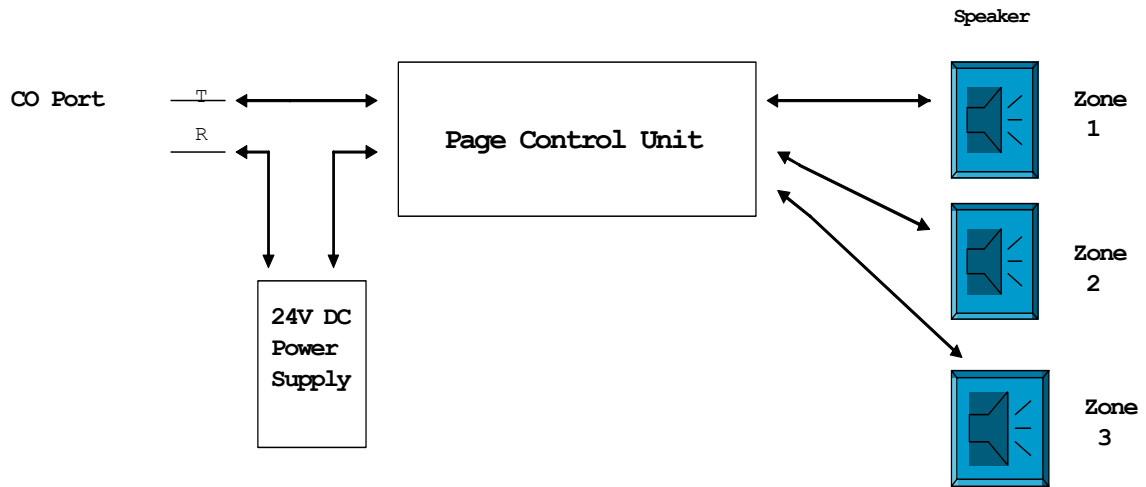
Door Box

The Viking W1000 is a door two way SEK box. Use an unused CO Line port. Put that CO line in another line group (Line Group 2) Allow all stations that have access to the door box to access to CO Line Group (2) also. Assign CO Line to ring on all phones where assigned. Connect CO line "Tip" to one connection on the Door box. The "Ring" will be connected to one side of a 24 V power supply (Example: Valcom VP624B Power Supply) then from the other side of the power supply to the other connection on the door box. Operation: When someone pushes the button on the door box it will ring the assigned CO Line and you can answer the ringing line and talk to the outside person. To monitor the door you just press the Assigned CO Line and to hear what is outside.



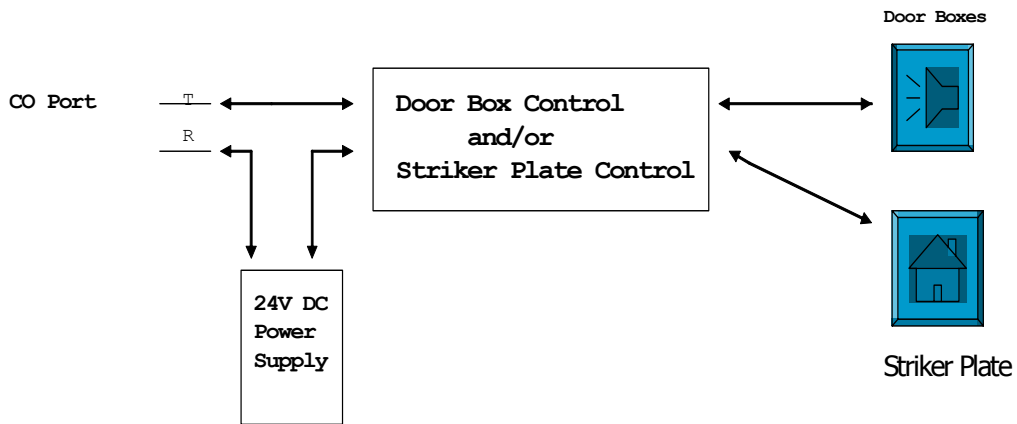
Multi-Zone Page Control

CO Lines can also be used for Multi-Zone Paging.



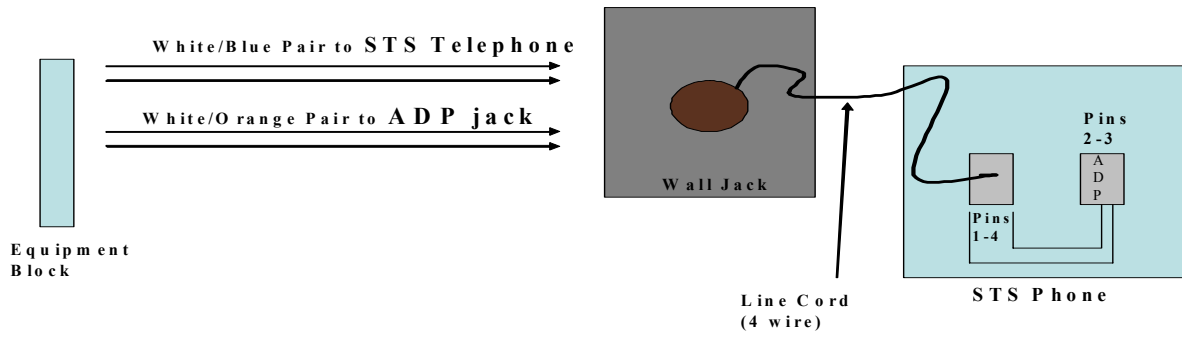
Door Box and Door Striker Plate Control

CO Lines can also be used for Door Boxes and Door entrance locks. The CO port used for a Door Box should be programmed on the stations to ring when the door bell button is activated. (FLASH 40 CO Line Ringing). Flexible buttons on the phones are programmed for CO Line port and marked as door Box. Installation and CO Line programming is same as previous slide.



STS Telephone ADP (Additional Device Port)

The ADP jack on the STS is a pass through of pins 1 & 4 from the Line input jack.



UPGRADING SOFTWARE

UPGRADING SOFTWARE

KSU

1. Backup KSU programming, using WinDBA or a .dnl-type file with Procom or Hyper-Terminal.
2. Turn power "OFF" and unplug BKSU.
3. Ground your body with a "Static Wrist Band".
4. Remove BKSU cover.
5. Remove two EPROMS (U2 and U3) with a chip extractor.
6. Install new EPROMS (U2 and U3).
 - (a). Install correct chips into slots U2 and U3.
 - (b). Insure that the chip notch matches the notch on the socket.
7. Re-install any cards that were removed while installing EPROM chips.
8. Reconnect power to BKSU and initialize system as listed in Initialization procedures.
9. Re-enter programming data.
10. Check and test system for proper operation.

--- Installation of EPROMS is complete. ---

In-Skin Voicemail

1. Download file from www.vodavi.com.

If you do not have a copy of ECOM, also download it now. ECOM can be found under "Software Downloads", "Voicemail Analog/Digital". Download file: "[Analog and Digital Voicemail Administration Programming Software 346/486 Ver 3.12 Software](#)". ECOM is one of the two applications that are on this download. Unzipping the download using the Wizard will open both programs: ADMIN and ECOM.

2. Unzip the "In Skin" upgrade file to your desktop.
3. Copy file to "A" drive.
4. Connect your PC to the In Skin Voicemail card using a straight through DB9 "Serial Cable" with a "Female Gender Bender". (This will give you two female DB9 connectors.)
5. Using your PC, access ECOM.
6. Set up ECOM connections by pressing "Alt P".
 - a. Baud rate - 9600
 - b. Parity - None
 - c. Data Bits - 8
 - d. Stop Bits - 1
 - e. Flow Control - No Flow Control (This means that all boxes are unchecked)
7. Press **ENTER**.
8. At password prompt, enter "0000".
9. At the menu prompt, "Dial 18 and press **ENTER**".
10. At the Programming Flash prompt, type "Y" and press **ENTER**.
11. Select upload icon. The upload icon can be identified by positioning the cursor over the symbol.
12. Select protocol - set to ASCII and click **OK**.
13. Select file to upload from floppy disk inserted in drive "A".
14. Once file is selected (highlighted), click **OK** or press **ENTER**.
15. The process will begin and sometimes a progress bar will appear at the bottom of the screen to also indicate in process has started. When the process is completed, the screen will change to reflect the Programming Flash prompt.
16. Type "Y" and press **ENTER**.
17. Wait for the "Main Menu" to return.

NOTE: This process could take a long time. In some cases, over 30 minutes.

When the Main Menu returns, type "Exit". Power down the BKSU and then power the BKSU back-up. Connect to the In-Skin using Hyper-Terminal and check the Version item to confirm the software has been updated. The software on the In-Skin Voicemail has been successfully upgraded.

WIN DBA

WIN DBA

Download WIN DBA Software from Vodavi Website

1. Go to the Vodavi web page, www.vodavi.com.
2. On the left, click on "Dealer Sign-In".
3. Enter Login Name and Password, then press the Login button. "If you are not a registered member, sign up by clicking on [click here](#) in the "Need to Register" area. (Within approximately 24 hours you will be emailed with your Login Name and Password).
4. Click on Starplus product line. And then click "Next".
5. Click on Software Downloads.
6. Go to the WIN DBA block.
7. At WIN DBA, click on WIN DBA for the STS system. (Note: software version: 0.08 is a "Field Trail" version. Report any problems to Vodavi Tech Support.
8. At "File Download" screen click, Save.
9. At "Save As" screen, save file to Save in _____ and File Name _____ and click on "Save".
(*example*: Save in: Desktop; File Name: STS DBA 008)
10. When Download is complete. Click the "Open" button.
11. Look for ICON that resembles a 3.5" floppy disk and reads "SETUP". Double-click the setup ICON.
12. Follow the Wizard and click Next; Next; Next; Next. When the Wizard is finished, a folder called WINDBA_STS is established with an ICON (WinDbaV72 Shortcut).

To Start a New File Using WIN DBA Software:

1. Click on the WinDba72 Icon.
2. Click on "File".
3. Click on "New."
4. Select a default configuration.
5. Enter Password, "SECRET".
6. At Select Directory window, in the Directory Name block: place cursor at the end of existing Path name and enter "V", followed by file name you want to establish (*example*: \Mike), then click **OK**.
7. When system is finished building program, click "Edit". (Notice that Program codes are listed from top to bottom, and Icons are from left to right).
8. Note the following folders:
 - a. File (Open, New, Close, Delete, Copy, Report, and Exit)
 - b. Edit (14 programming sections up and down and their Icons appear left to right)
 - c. Tools (Connect, Disconnect, Upload to KSU, Download from KSU, Download from File Modem/RS-232, Monitor).
 - d. Help (Contents, How To Use Help, About)
9. Review the Help folder for using this program. Also, make note of software version number.
10. To "Exit". Click on File, Close, then Exit. Always save program.

To Open an Existing File Using WIN DBA Software:

1. Double click, WinDbaV70 shortcut Icon.
2. Click "File", then "Open".
3. Double click "Directories: (file). (*example*: Mike)
4. Click **OK**.
5. Enter Password, "secret". Click **OK**.
6. Click "No" at the "Do you wish to backup this database" prompt.
7. Click "Edit". Note Icons and program section names.
8. To exit, click "File" and "Exit", then "X" to close.

Review Programming Sections in the WIN DBA Software:

1. Select "Account Codes". (See Programming Manual, Section F, Flash 05 Flex Button 8; Flash 06 Flex Button 3; Flash 31 for programming information.)
 - a. Enter Account code, Day and Night COS.
 - b. Click either Verified or Forced and the will take you to System feature codes. Click (check) either Verified, Forced or Both. Click Save and the "X" block to exit.
 - c. Complete Account codes if needed. (Not a normal item to use on the average STS system.)
 - d. Select "Cards". (See Programming Manual, Section F, Flash 24 for programming information.)

NOTE: Slot 0 and 1 are fixed. Slot 2 should be also, since this is the 2 port analog card. To add a card to a slot; first click on slot (Note: The Block "Card Type" will indicate what that card slot is programmed for). Use the Arrow down icon to find the card name to select and click on name. Card name is now in the Card Type block. Click on that card slot again. Now the card is identified for that card slot. Continue until all card slots are programmed as required.

NOTE: Remember when program is up loaded that the system must be reset for Card Slot programming to take effect.

- e. Click the "X" block to save and exit this section.
2. Select "CO Lines". (See Programming Manual, Section F, Flash 40 for programming information)
 - a. Note you are on CO # 1. By clicking on the > < buttons you can move from one CO to another.
 - b. Note the folders (CO, Timers, Features, Ring Assign, Grid, Copy, and Report).
 - c. Program each CO as required.
 - d. Note the copy folder you can copy blocks of CO Lines in three groups and also ringing assignments either "Yes or No".
 - e. When complete, click Save then "X" to exit.
3. Select "DID". (See Programming Manual, Section F, Flash 43 & Flash 44 for programming information)
 - a. Program as required
 - b. When complete Click Save and "X" to exit.
4. Select "Hunt Groups". (See Programming Manual, Section F, Flash 30 for programming information.)
 - a. Note: Three types of hunt in, Group Type.
 - b. Enter members (station numbers) up to 8 maximum.
 - c. When complete, save and click on "X" to exit.
5. Select "LCR Programming". (See Programming Manual, Section F, Flash 75, Flash 50 Flex Button 9, Flash 05 Flex Button 7 for programming information.)
 - a. Program as required.
 - b. When completed, save and click on "X" to exit.
6. Select "Passwords". This is the password for WINDBA. Note there is no back door password if you change it, so **DO NOT** loose password.
7. Select "Ports". (See Programming Manual, Section F, Flash 42 & 52 for programming information.)
 - a. Program as required. Note under **most cases**, do not make any changes in this section. Keeping it simple is the best. If you change a port around and then went to work on CO Line 1 and now it was on Port 24 it would be confusing. Correct?
 - b. Click Save and "X" to exit.

8. Select "Stations". (See Programming Manual, Section F, Flash 50 for programming information.)
 - a. Note folders (Stations, Features, Buttons, Speed, Volume, Preset Fwd, Grid, Copy, and report)
 - b. Use the > < keys to move from station to station.
 - c. Note Copy allows you to copy from one station to three block of a group of station numbers to include copying buttons "Yes or No".
 - d. The Button Folder is like the Card slot programming. First select either Button number or Type. Then select feature under Type block. Then click button to make change.
 - e. When completed, save and click on "X" to exit.

9. Select "System Features". (See Programming Manual, Section F, Flash 01, 02, 05, 06, 07, 09, 10, 11, 12, 13, 14, 15, 20, 21, 22, 23, 39, and 52 for programming information.)
 - a. Note the "Flexible Numbering Plan". Remember, if changes are made here make sure it does not conflict with some other code, the user guide and you must be able to maintain these changes.
 - b. When completed, save and click on "X" to exit.

10. Select "Toll Restriction Programming". (See Programming Manual, Section F, Flash 70, and Flash 50 Page B Flex buttons 2 and 3 for programming information.)
 - a. Note three folders (Allow/Deny Table A, Allow/Deny Table B, and Special Tables)
 - b. If a Station is in Class of Service (COS) 2, 3 or 4, the system would go check Toll restrictions Table A Allow. If found call would be allowed. If no found in the Allow it would go to the Denied Table. If found in the Deny Table call is Denied. If not found in either table call is allowed.
 - c. Program as required.
 - d. When finished, save and click on "X" to exit.

11. Select "T1". (See Programming Manual, Section F, Flash 47 for programming information.)
 - a. Program as required
 - b. When finished save and click "X" to exit.

12. Select "UCD". (See Programming Manual, Section F, Flash 60, 61 and 62 for programming information.)
 - a. Program as required
 - b. When finished save and click "X" to exit.

13. Select "Voice Mail Programming". (See Programming Manual, Section F, Flash 65, 66, and 76 for programming information.)
 - a. No programming is required if you are using the STS In-Skin Voicemail system.
 - b. If you are using the Dispatch Voicemail system only the station members need to be changed to stations connected to the Dispatch.
 - c. When completed save and click "X" to exit.

To Connect to STS to Upload or Download Data Using WIN DBA Software:**Download from KSU to Laptop (PC)**

1. Connect a Straight Serial Cable as pervious explained to the top Serial port on the Left side of the KSU to the Serial port on the Laptop (PC).
2. Select drop down selection "Tool".
3. Click on "Connect".
4. Select Direct RS-232 Connect
5. Click on "Connect".
6. Process takes approximately 30 seconds to connect at 9600 bd.
7. Click **OK**.
8. Select Tools folder again.
9. Select "Download From KSU".
10. At "do you wish to download database from KSU? Click "YES"
11. At "Overwrite existing file c:\winbda~1\xxxx.dnl (*example* xxxx = Mike). Click "YES".
12. Wait till program is downloaded. This can take several minutes and you may never see activity in the progress block. Patience is needed here.
13. When download is completed click **OK**.
14. Select the Tools folder and click "Disconnect".
15. Be sure to save file.

Upload from Laptop (PC) to KSU

1. Connect a Straight Serial Cable as pervious explained to the top Serial port on the Left side of the KSU to the Serial port on the Laptop (PC).
2. Select drop down selection "Tool".
3. Click on "Connect".
4. Select Direct RS-232 Connect.
5. Click the "CONNECT" button.
6. Process takes approximately 30 seconds to connect at 9600 baud.
7. Click **OK**.
8. Select Tools folder again.
9. Select "Upload to KSU".
10. At "Do you wish to upload database to KSU?", click "YES".
11. At "The target system will be initialized to a default. Continue?", click "YES".
12. At "Overwrite existing file: c:\windba~1\xxxx.dnl" (*example* xxxx = Mike), click "YES".
13. Wait this will take several minutes based on amount of data. The progress bar will start to show data flow.
14. When finished the window will ask to reset system, click "YES".
15. Be sure you have saved file before WINDBA is closed.

Program STS System Using WIN DBA Software

(Refer to “Programming STS Telephone System” for programming steps.)

To start a New File using WIN DBA Software:

1. Click the Edit folder.
2. Click on “Cards or the Cards Icon. Configure card slots as required.
3. Click CO Line Programming or CO Line Icon. Program Ringing Assignments for each CO as required. (Note the copy feature).
4. Click the CO folder and select “Preset Forward”: Change “None” to “Voice_Mail”. In block to right, enter the number “1” and press **ENTER**.
5. Click the Timers folder and enter timer for “Preset Forward”. Preset Forward is now set, so the Auto-attendant would answer call if no one answers a CO line.
6. Save data and click on the “X” to exit.
7. Click on Station Programming or the Icon.
8. Select the Buttons folder and program the buttons for each phone. (Note the copy feature also).
9. Select the Preset Fwd folder. Enter “Voicemail” for Internal No Answer; External No Answer; and Internal Busy. Do not use External Busy if phone rings on Incoming CO calls. In block to right of each item, enter “1”. At top is timer for No Answer, enter time as required.
10. Save and click on “X” to exit.
11. If CO Port is available but not used, select CO Line Programming. Select CO Line that is not used and change CO Group to “0”.
12. Save and click on “X” to exit.
13. Refer to “Connecting to KSU” and upload data from Laptop (PC) to KSU and follow procedures to upload data.

**QUICK
REFERENCE**

Default Numbering Plan

FUNCTION	CODE
911 Alert View/Delete (requires button)	608/608+FLASH
Account Code (requires button)	627
Answering Machine Ring	654+[0]
Answering Machine Speaker	654+[1]
Attendant	0
Attendant Clear Alarm	606
Attendant CO Line Extl (Off-Net) Fwd	603+[NNN]+[YYYY]
Attendant Custom Message	694+[XX]+message
Attendant Day/Night/Special (requires button)	631 (DND key)
Attendant Directory List Programming	693
Attendant Disable Outgoing CO Line	602+press CO line button
Attendant Override (requires button)	601
Attendant Setting Time and Date	692+date and time entry
Attendant Unavailable	607
Attendant Voice Mail Alarm Clear	656
Background Music	632+[0 (off), 1, or 2]
Call Back	622
Call Coverage - Non-Ringing (requires button)	647+[XXX]
Call Coverage - Ringing (requires button)	646+[XXX]
Call Forward	640+[C]
Call Forward - External (Off-Net)	[640]+[*]+[YYYY]
Call Forward - Follow Me	642+[XXX]+[C]+destination
Call Park (location 1-8)	430-437
Call Park - Personal	438
Call Park - Station	439+[XXX]
Call Park Pickup - Station	#6+[XXX]
Call Park Pickup - System (location 1-8)	#430-#437
Call Pickup (reqs btn)	#0
Caller ID Display (Answered Calls)	659
Caller ID Display (Unanswered Calls)	635
Caller ID Name/Number (requires button)	653
Calling Forward Override	5#[XXX]+press[B]
Calling Station Handsfree Mode Override	7#[XXX]
Calling Station Tone Mode Override	6#[XXX]
Clear Call Forward, DND, Personal Msg	662
CO Line (Idle) Direct Access	88+[LLL]
CO Line Group Access Code (group 1-23)	801-823
CO Line Group Access Code (all groups)	824

FUNCTION	CODE
CO Line Queue	621
CO Line Queue Cancel	626
Dial-By-Name	6*
Directory Dial	680
Do Not Disturb	631
DTMF Receiver Test	657
Executive Override	625
Flash (Centrex)	660
Headset Mode	634
Hunt Group (group 1-8)	450-457
In and Out Button (requires button)	644
Intercom Button (requires button)	645
Keypad Mode	648+[#,*]
Last Number Redial	[SPEED]+[#]
LCR (E911 active on CO Line)	800
LCR (if active) or CO Line Group 1	9
Loop Key (requires button)	89
Message Wait Answer	663
Modem	499
Modem - Voice Mail Access	498
Name in Display	690
Night Service (requires button)	604
Off Hook Voice Over (requires button)	628
Page - All Call	700
Page - External Zone	760 or 761
Page - Internal Zones 1-8, All	701-709
Page - Meet Me (Answer)	770
Personal Messages	633+[ZZ]
Release Button (requires button)	641
Repeat Redial	643
Ring Down / Hot Line / Off-Hook Preference	691+[BB]
Ring Tone	695+[RR]
Save Number Redial	[SPEED]+[*]
School Zone	630
SLT Conference Park	664
SLT Directed Call Pickup	#1
SLT Message Wait	623
SLT Speed Programming	661+[YYYY]
SLT Volume	638+[V]
Software Version	605

FUNCTION	CODE
Speed Dial	[SPEED]+[YYYY]
Speed Dial for SLT (digital only for Admin Prog)	668+[YYYY]
Station Numbers (Fixed)	100-149
Station/Port Fixed Number	611
Station Relocate	636+[XXX]
Stop Trace	658
UCD Available/Unavailable	566
UCD Calls In Queue Status Display (any group)	567+[UUU]
UCD Group (group 1-16)	550-565
UCD Wrap-up End Button	584
Unanswered CO Call Transfer	639
Universal Day/Night Answer	#5
Voice Mail Group (group 1-8)	440-447
Voice Mail Message Cancel (VM Port only)	421+[MMMM]
Voice Mail Message Set (VM Port only)	420+[MMMM]
Voice Mail Message Set w/count (VM Port only)	422+[MMMM]
Voice Mail One Touch Recording (requires button)	649+[VVV]
Voice Mailbox Button (requires button)	460-467+[VMID]

TABLE LEGENDS:		
B	=	Button w/ feature code: 622 = Call Back, 620 = Camp On, 625 = Executive Override, 623 = Message Wait, 628 = OHVO
BB	=	Button Number
C	=	Call Forward Condition Code: (6-9 = All Calls, No Answer, Busy, Busy/No Answer; * = Off-Net)
LLL	=	CO Line Number (001-028)
MMMM	=	2- to 4-digit Mailbox Number
NNN	=	CO Line Group Access Code of group to be forwarded: (801-823 = CO Group; 1-23, 824 = All CO Groups)
RR	=	Ring Tone Number (00-36)
V	=	Volume Control Level (0-9)
VVV	=	Voice Mail Group Number (440-447)
XX	=	Custom Message Number (21-30)
XXX	=	Intercom Station Numbers
YYYY	=	Speed Dial Bin Numbers (9000-9099)
ZZ	=	Personalized Messages

FLASH CODE PROGRAMMING

At Station 100 ... dial **3226 > press FLASH button > dial Flash Code

PROGRAM CODE	FEATURE	FLEXIBLE BUTTON
FLASH 01	SYSTEM TIMERS	
	System Hold Recall Timer	1
	Exclusive Hold Recall Timer	2
	Attendant Recall Timer	3
	Transfer Recall Timer	4
	Pause Timer	7
	Call Park Recall Timer	8
	Conference/DISA Timer	9
	Paging Time-Out Timer	10
	CO Ring Detect Timer	11
	SLT DTMF Receiver Timer	12
	Message Wait Reminder Tone Timer	13
	SLT Hook Switch Timer	14
	SLT Hook Switch Bounce Timer	15
	SMDR Call Qualification Timer	16
	Automatic Call Back Timer	17
	Reminder Ring Timer	18
	Inter-Digit Time-Out	20
FLASH 02	ADDITIONAL SYSTEM TIMERS	
	Repeat Redial Timer	1
	Attendant Display Timer	2
	Call Coverage Ring Timer	3
	Modem Answer Timer	4
	Pulse Dial Inter-Digit Timer	5
	DTMF On/Off Time Operation	6
FLASH 05	SYSTEM FEATURES 1 PROGRAMMING	
	Attendant Override	1
	Hold Preference	2
	External Night Ring	3
	Executive Override Warning Tone	4
	Page Warning Tone	5
	Background Music	6
	Least Cost Routing (LCR)	7
	Account Codes – Forced	8
	Group Listening	9
	Idle Speaker Mode	10

PROGRAM CODE	FEATURE	FLEXIBLE BUTTON
FLASH 05	Call Cost Display	11
	Music-On-Hold	12
	CO Line Loop Superv - Forced Disconnect	14
FLASH 06	SYSTEM FEATURES 2 PROGRAMMING	
	Barge In Warn Tone	1
	CO Ring Tones	2
	Verified Account Codes	3
	Call Forward Display	4
	External Day Ring	5
	Overflow Station Forward	6
	Direct Transfer Mode	7
	Station ID Lock	8
	LCR Call Progress	9
	One-Touch Recording Warn Tone	10
	Ringback on Transfer	11
	911 Feature	13
	Enhanced 911	14
	VMID Same As Station Numbers	15
FLASH 07	FLASH RATES (Programmable)	
	Incoming CO Line Ringing	1
	Incoming Intercom Ringing	2
	Call Forward Button	3
	Message Wait/VM Button	4
	Do Not Disturb – DSS/BLF	6
	Auto Call Back – BLF	7
	UCD Available/Unavailable – DSS/BLF	8
	Transfer CO Ringing	9
	Recall CO Ringing	10
	Queued CO Ringing	11
	Exclusive Hold	12
	System Hold	13
	In-Use Hold (I-Hold)	14
	Camp On Button	15
	Call Back Button	16
	Line Queue Button	17
Do Not Disturb Button	18	
UCD Wrap-up End Button	20	
Page Block (DND Button)	21	
In and Out Button	22	

PROGRAM CODE	FEATURE	FLEXIBLE BUTTON
FLASH 09	SYSTEM PARAMETERS PROGRAMMING	
	MOH Assignments (Channels 3-8)	1-6
	E911 Power Failure Station	7
	Leading Digit	9
	School Mode	10
	School Forward Destination	11
	Muted Ring	12
FLASH 10	ATTENDANT STATION ASSIGNMENT	
FLASH 11	SYSTEM TIME AND DATE	1
FLASH 12	PBX DIALING CODES	--
FLASH 13	EXECUTIVE/SECRETARY PAIRS	1-4
FLASH 14	RELAY PROGRAMMING	1
FLASH 15	BAUD RATE ASSIGNMENTS	
	Port #1 (RS-232C on the BKSU)	1
	Port #2 (RS-232C on the BKSU)	2
	Port #3 (optional modem - baud auto-negotiated)	3
FLASH 20	ACCESS CODES	
	DISA Access Code	1
	Database Admin Password	2
FLASH 21	STATION MESSAGE DETAIL RECORDING	
	SMDR Enable/Disable	1
	Long Distance/All Calls	2
	Character Print Assignment	3
	SMDR Port Assignments	5
FLASH 22	WEEKLY NIGHT MODE SCHEDULE	
	Automatic/Manual Operation	1
	Day of Week Programming	2-8
FLASH 23	DIRECTORY DIALING	
	Bin/ICM Numbering	1
	Name Changes	2
	Clearing An Entry	3
	Backspace To Correct Error	4
	Scroll to next Entry	18
	Scroll to previous Entry	19
	Select a Specific Directory List Entry	20
FLASH 24	CARD SLOT PROGRAMMING	
	Card Slots (0-13)	1-14
FLASH 30	HUNT GROUPS	
	Hunt Group Programming	1-12

PROGRAM CODE	FEATURE	FLEXIBLE BUTTON
FLASH 30	Station/Pilot/Pilot Ring All -- Hunting Assignments	13
	Overflow Destination - Day	14
	Overflow Destination - Night	15
	Overflow Destination - Special	16
	Overflow Destination - VMID	17
	Overflow Timer	18
	Queue	19
FLASH 31	VERIFIED ACCOUNT CODES	
	Account Code	1
	Class of Service	2
	Delete Code	3
	Erase Digits	4
FLASH 39	CO LINE GROUP QUEUING	1-24
FLASH 40	CO LINE ATTRIBUTES PAGE A PROGRAMMING	Btn 19
Page A	DTMF/Dial Pulse Programming	1
	CO/PBX Programming	2
	Universal Night Answer (UNA)	3
	DISA CO-to-CO	4
	Privacy	5
	Loop Supervision Programming	6
	DISA Programming	7
	CO Line Group Programming	8
	Class of Service (COS) Programming	9
	CO Line Ringing Assignments	10
	CO Line Identification Display	11
	CO Direction	12
	Display Ring Assignments	13
	DID/TIE Signal	14
	Lines for 911Use	15
	Scroll to next CO Line	22
	Scroll to previous CO Line	23
Return to Flash 40 "Select a CO Line Range" Display	24	
FLASH 40	CO LINE ATTRIBUTES PAGE B PROGRAMMING	Btn 20
Page B	T-1 Signal Type	1
	T-1 Ringback	2
	T-1 Dial Tone	3
	Transmit Volume	4
	Preset Call Forward Destination	5
	Preset Forward Voice Mail ID	6

PROGRAM CODE	FEATURE	FLEXIBLE BUTTON
FLASH 40	Universal Day Answer (UDA)	7
Page B	Music-On-Hold (per CO Line)	8
	Ring Tone (per CO Line)	9
	Scroll to next CO Line	22
	Scroll to previous CO Line	23
	Return to Flash 40 "Select a CO Line Range" Display	24
FLASH 40	CO LINE ATTRIBUTES PAGE C PROGRAMMING	Btn 21
Page C	Flash Timer Programming	1
	Ring Delay Timer	2
	Wink Timer	3
	Release Timer	4
	Reseize Timer	5
	Guard Timer	6
	Seize Timer	7
	Preset Forward Timer	8
	DID Collect Timer	9
	T-1 Collect Timer	10
	Scroll to next CO Line	22
	Scroll to previous CO Line	23
	Return to Flash 40 "Select a CO Line Range" Display	24
FLASH 41	DID-TIE PARAMETERS	
	Dial Pulse Parameters	1
	DID Digits	3
	DID Incoming Signal	5
	T-1 Incoming Signal	6
	T-1 Framing Type	7
	LCOB Loop Length	8
	Display PRI Name	9
	CO Tolerance	11
FLASH 42	CO FLEXIBLE PORT ASSIGNMENT	1-7
FLASH 43	ICLID PROGRAMMING	
	ICLID Ringing Assignment(s)	1
	View ICLID Ringing Assignments	17
	Next ICLID Route Number	18
	Previous ICLID Route Number	19
	Select Route Number	20
FLASH 44	DID PROGRAMMING	
	Route Number	1
	DID Phone Number	2

PROGRAM CODE	FEATURE	FLEXIBLE BUTTON
FLASH 44	Name Assigned to Number	3
	Erasing a DID Table Entry	4
	Scroll to next Route	18
	Scroll to previous Route	19
FLASH 45	ISDN PAGE A PROGRAMMING	Btn 19
Page A	PRI CO Type	2
	Framing	3
	Power	5
	Directory Number (PRI)	6
	Max Out I-Frames	7
	Leading 1	8
	Leading 011	9
	PRI 7-11 Digit Number Plan	10
	Calling Number	11
	Loopback	12
	FLASH 45	ISDN PAGE B PROGRAMMING
Page B	Maximum Number Retransmission	1
	Maximum Octets	2
	Maximum TEI ID Request	3
	Maximum XID Retransmission	4
	T-200	5
	Minimum TEI ID Check Message	6
	Minimum TEI ID Request	7
	Message Exchange Timer	8
	Minimum XID Retransmission	9
	Inter Digit T/O	10
	Set-up Timer	11
	Disconnect Timer	12
	Release Request	13
	Link Disconnect	14
	Call Proceeding	15
	Connect Request	16
Restart Request Timer	17	
FLASH 47	T-1 ALARM PROGRAMMING	
	Carrier Loss Alarm	1
	Blue Alarm	2
	Yellow Alarm	3
	Red Alarm	4
	Bipolar Alarm	5

PROGRAM CODE	FEATURE	FLEXIBLE BUTTON
FLASH 47	Frame Slip Alarm	6
	Data Errors Alarm	7
	Enable/Disable	11
	Clear Alarm	12
	Minor Alarm	13
	Major Alarm	14
	Time Period	15
	Attendant Display	16
FLASH 50/51	STATION ATTRIBUTES PAGE A PROGRAMMING	Btn 19
Page A	Paging Access	1
	Do Not Disturb	2
	Conference Enable/Disable (Per Station)	3
	Executive Override	4
	Privacy (Per Station)	5
	System Speed Dial Access	6
	Line Queuing	7
	Preferred Line Answer	8
	Off-Hook Voice Over (OHVO)	9
	Call Forward - Enable/Disable	10
	Forced Least Cost Routing	11
	Executive Override Blocking	13
	CO Line Ringing Options	14
	Name/Number Display at Idle	15
	CO Line, Loop, and Pool Buttons	17
	Admin Access	18
		Return to Flash 50/51 "Select a Station Range" or "Enter Station Number" Display
FLASH 50/51	STATION ATTRIBUTES PAGE B PROGRAMMING	Btn 20
Page B	Station Identification	1
	Station Day Class of Service (COS)	2
	Station Night Class of Service (COS)	3
	Speakerphone Programming	4
	Pickup Group(s) Programming	5
	Paging Zone(s) Programming	6
	School Zone	7
	Line Group Access - Station	8
	LCR Class of Service (COS)	9
	Off-Hook Preference Programming	10
	Flexible Button Programming	11
	Keyset Mode	12

PROGRAM CODE	FEATURE	FLEXIBLE BUTTON
FLASH 50/51	Voice Mail ID Translation	13
Page B	Display Flexible Buttons	14
	Light Control	15
	Cordless Key Telephone Unit (CKTU) Button	17
	Headset Mode	18
	Return to Flash 50/51 "Select a Station Range" or "Enter Station Number" Display	24
FLASH 50/51	STATION ATTRIBUTES PAGE C PROGRAMMING	Btn 21
Page C	Internal No Answer Forward	1
	Internal Busy Forward	2
	External No Answer Forward	3
	External Busy Forward	4
	No Answer Timer	5
	SLT Loop Supervision	7
	Outbound DID Number	8
	Distinctive Ring Tone - Station	13
	Backlight Display	14
	Return to Flash 50/51 "Select a Station Range" or "Enter Station Number" Display	24
FLASH 52	FLEXIBLE NUMBERING ASSIGNMENT	
	Changing a Flexible Code	1
	Erasing a Flexible Code	2
	Selecting a Flexible Code	21
	Next Code Entry	22
	Previous Code Entry	23
	Selecting a Fixed Code	24
FLASH 55	NAME/NUMBER TRANSLATION TABLE	
	Route Number	1
	Phone Number	2
	Name	3
	Clear Entry	4
	Scroll to next Table	18
	Scroll to previous Table	19
	Locate a specific Table	20
FLASH 56	ICLID FEATURES	
	Enable/Disable	1
	Name in Display	2
	Baud Rate Display	3
	Port Assignment	4

PROGRAM CODE	FEATURE	FLEXIBLE BUTTON
FLASH 60	UCD GROUP PROGRAMMING	
	Alternate UCD Group Assignment	2
	UCD Overflow Station Assignment	3
	UCD Primary Agent Assignments	7
	UCD Primary RAN	10
	UCD Secondary RAN	11
	Scroll to next Group	22
	Scroll to previous Group	23
	Return to Flash 60 "Select a Group" Display	24
FLASH 61	UCD TIMERS	
	UCD Ring Timer	1
	UCD Message Interval Timer	2
	UCD Overflow Timer	3
	UCD Wrap-up Timer	4
	UCD No-Answer Recall Timer	5
	UCD No-Answer Retry Timer	6
FLASH 62	UCD ANNOUNCEMENT TABLES (RAN)	1-8
FLASH 65	VOICE MAIL PROGRAMMING	
	Voice Mail Groups (440-447)	1-8
	Alternate Voice Mail Group	9
	Standard Leave Mail Index Entry	10
	Retrieve Mail Index Entry	11
	Station Assignment(s)	12
	No Answer Leave Mail Index Entry	13
	Busy Leave Mail Index Entry	14
FLASH 66	VOICE MAIL OUTPULSING TABLE	
	Voice Mail In-Band Signaling	
	(Table 0)	1
	(Table 1)	2
	(Tables 2-6)	3-7
	(Table 7)	8
	Voice Mail Disconnect Table	9
FLASH 67	VOICE MAIL IN-BAND FEATURES	
	Voice Mail In-Band Digits	1
	Voice Mail Transfer/Forward	2
	Voice Mail Broker	3
	VMID Digit Length	4
	VM Port	6
	VM Port Number	7

PROGRAM CODE	FEATURE	FLEXIBLE BUTTON
FLASH 70	TOLL RESTRICTION PROGRAMMING	
	Allow Table A Programming	1
	Deny Table A Programming	2
	Allow Table B Programming	3
	Deny Table B Programming	4
	Special Table 1 Programming	5
	Special Table 2 Programming	6
	Special Table 3 Programming	7
	Special Table 4 Programming	8
	Area Code for Special Table 1	9
	Area Code for Special Table 2	10
	Area Code for Special Table 3	11
	Displaying Toll Table Entries	12
FLASH 75	LCR TABLES PROGRAMMING	
	3-Digit Area/Office Code Table	1
	6-Digit Area/Office Code Table	2
	Exception Code Table	3
	Route List Table	4
	Digit Insert/Delete Table	5
	Daily Start Time Table	6
	Weekly Schedule Table	7
	LCR Routing for Toll Information	8
FLASH 80	INITIALIZE DATABASE PARAMETERS	
	Initialize System Parameters	1
	Initialize CO Line Attributes	2
	Initialize Station Attributes	3
	Initialize CO Port Assignments / Codes	4
	Initialize Exception Tables	5
	Initialize System Speed Numbers	6
	Initialize LCR Tables	7
	Initialize ICLID - DID Tables	8
	Initialize Directory Dialing Table Parameters	9
	Initialize Hunt Group Parameters	10
	Initialize UCD Group Parameters	11
	Initialize Voice Mail* Group Parameters	12
	Initialize DID-TIE Parameters	13
	Initialize Verified Account Code Table	14
	Initialize ISDN Parameters	15
	System Reset	20

PROGRAM CODE	FEATURE	FLEXIBLE BUTTON
FLASH 85	PRINT SYSTEM DATABASE PARAMETERS	
	Print System Parameters	1
	Print CO Line Attributes	2
	Print Station Attributes	3
	Print CO Port Parameters / Codes	4
	Print Exception Tables	5
	Print System Speed Numbers	6
	Print LCR Tables	7
	Print Entire System Database	8
	Print ICLID - DID Tables	9
	Print Directory Dial Table Parameters	10
	Print Hunt Group Parameters	11
	Print UCD Group Parameters	12
	Print Voice Mail* Group Parameters	13
	Print DID-TIE Parameters	14
	Print Verified Account Codes	15
	Print ISDN Parameters	16
FLASH 86	LOAD DATABASE ROUTINE	
	Upload Database	1
	Download Database	2