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# ***Strata***<sup>®</sup> ***DK***

Digital Business Telephone Solutions

## **System Record Sheets**

***DK14***

**Software Release 3.1**

***DK40i***

**Software Release 4.1**

***DK424***

**Software Release 4.1  
and ACD**

# Strata DK

## General End User Information

The Strata DK Digital Business Telephone System is registered in accordance with the provisions of Part 68 of the Federal Communications Commission's Rules and Regulations.

### FCC Requirements

Means of Connection: The Federal Communications Commission (FCC) has established rules which permit the Strata DK system to be connected directly to the telephone network. Connection points are provided by the telephone company—connections for this type of customer-provided equipment will not be provided on coin lines. Connections to party lines are subject to state tariffs.

Incidence of Harm: If the system is malfunctioning, it may also be disrupting the telephone network. The system should be disconnected until the problem can be determined and repaired. If this is not done, the telephone company may temporarily disconnect service. If possible, they will notify you in advance, but, if advance notice is not practical, you will be notified as soon as possible. You will be informed of your right to file a complaint with the FCC.

Service or Repair: For service or repair, contact your local Toshiba telecommunications distributor. To obtain the nearest Toshiba telecommunications distributor in your area, call Toshiba America Information Systems, Inc., Telecommunication Systems Division in Irvine, CA (949) 583-3700.

Telephone Network Compatibility: The telephone company may make changes in its facilities, equipment, operations, and procedures. If such changes affect the compatibility or use of the Strata DK system, the telephone company will notify you in advance to give you an opportunity to maintain uninterrupted service.

Notification of Telephone Company: Before connecting a Strata DK system to the telephone network, the telephone company may request the following:

1. Your telephone number.
2. FCC registration number:
  - ♦ Strata DK may be configured as a Key or Hybrid telephone system. The appropriate configuration for your system is dependent upon your operation of the system.
  - ♦ If the operation of your system is only manual selection of outgoing lines, it may be registered as a Key telephone system.
  - ♦ If your operation requires automatic selection of outgoing lines, such as dial access, Least Cost Routing, Pooled Line Buttons, etc., the system must be registered as a Hybrid telephone system. In addition to the above, certain features (tie Lines, Off-premises Stations, etc.) may also require Hybrid telephone system registration in some areas.
  - ♦ If you are unsure of your type of operation and/or the appropriate FCC registration number, contact your local Toshiba telecommunications distributor for assistance.  
**DK14 and DK40i**  
Key system: **CJ6MLA-74479-KF-E**  
Hybrid: **CJ6MLA-74478-MF-E**  
**DK424**  
Hybrid: **CJ69XA-10243-MF-E**  
Key system: **CJ69XA-10242-KF-E**  
PBX: **CJCHN-22757-PF-E**
3. Ringer equivalence number: 0.3B. The ringer equivalence number (REN) is useful to determine the quantity of devices which you may connect to your telephone line and still have all of those devices ring when your number is called. In most areas, but not all, the sum of the RENs of all devices connected to one line should not exceed five (5.0B). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to ascertain the maximum REN for your calling area.

4. Network connection information USOC jack required: RJ1CX, RJ2EX, RJ2GX, RJ48C, RJ48X, RJ11, RJ14C, RJ21X (see Network Requirements in this document). Items 2, 3 and 4 are also indicated on the equipment label.

### Radio Frequency Interference

Warning: This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the manufacturer's instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case, the user, at his/her own expense, will be required to take whatever measures may be required to correct the interference.

This system is listed with Underwriters Laboratory.

UL Requirement: If wiring from any telephone exits the building or is subject to lightning or other electrical surges, then secondary protection is required. Secondary protection is also required on DID, OPS, and tie lines. (Additional information is provided in this manual.)



### Important Notice — Music-On-Hold

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CP01, Issue 8, Part I Section 14.1

Notice: The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The Department does not guarantee the Equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

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**CAUTION!** Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

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CP01, Issue 8, Part I Section 14.2

Notice: The Ringer Equivalence Number (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The terminal on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the Devices does not exceed 5.

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DKA-SR-SYSRECVE  
4010920

Version E, May 1999  
Version D.1, September 1998  
Version D, May 1998  
Version C.1, January 1998  
Version C, October 1997  
Version B, April 1997  
Version A.1, February 1997 (Update TB16-0003)  
Version A, December 1996

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*Chapter 7 – E911*

# Introduction

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These record sheets enable you to program the Strata DK14, DK40i, and DK424 digital business telephone systems. They are intended for qualified service technicians and system programmers. At the time of this printing, this book contains Release 4.1 information for the DK424. It also contains some pre-release information for software beyond Release 4.1.

**Important!** *Information beyond Release 4.1 is preliminary and given prior to product release. Be careful when using this information as the software will change and updates/additions will be required upon final release.*

Record sheets and detailed information about each program can be found in the *Strata DK Programming Manual*. The DK Installation and Maintenance Manual also contains useful information. Both of these books can also be found on the Strata DK Library CD-ROM.

## Organization

This manual is organized as follows for your convenience:

- ♦ **Chapter 1 – Initialization & Test** includes information for initializing and test programs.
- ♦ **Chapter 2 – System & Station** includes programming information for the entire system and individual stations.
- ♦ **Chapter 3 – Toll Restriction** includes programming information for Toll Restriction.
- ♦ **Chapter 4 – Least Cost Routing** includes programming information for Least Cost Routing.
- ♦ **Chapter 5 – Automatic Call Distribution** includes ACD programming for DK424 (ACD does not apply to the RCTUA processor).
- ♦ **Chapter 6 – ISDN** includes programming instructions and record sheets for Integrated Systems Digital Networking features for the DK424 and DK40i.
- ♦ **Chapter 7 – E911** includes programming information for connecting the DK424 to Enhanced 911 CAMA trunks.

The programs in each chapter are given in numerical order (except Initialization and Test which is given in order of importance). The “\*” programs are located behind the program of the same name (e.g., Program \*09 follows Program 09).

## Conventions

Conventions	Description
<b>Note</b>	Elaborates specific items or references other information. Within some tables, general notes apply to the entire table and numbered notes apply to specific items.
<b>Important!</b>	Calls attention to important instructions or information.
<b>CAUTION!</b>	Advises you that hardware, software applications, or data could be damaged if the instructions are not followed closely.
<b>WARNING!</b>	Alerts you when the given task could cause personal injury or death.
[DN]	Represents any Directory Number button, also known as an extension or intercom number.
[PDN]	Represents any Primary Directory Number button (the extension number for the telephone).
[SDN]	Represents any Secondary appearance of a PDN. A PDN which appears on another telephone is considered an SDN.
[PhDN]	Represents any Phantom Directory Number button (an additional DN).
\$ UDC#/ROG	Represents telephone buttons.
<b>Courier</b>	Shows a computer keyboard entry or screen display.
“Type”	Indicates entry of a string of text.
“Press”	Indicates entry of a single key. For example: Type <b>prog</b> then press <b>Enter</b> .
Plus (+)	Shows a multiple PC keyboard or phone button entry. Entries without spaces between them show a simultaneous entry. Example: <b>Esc + Enter</b> . Entries with spaces between them show a sequential entry. Example: <b># + 5</b> .
Tilde (~)	Means “through.” Example: 350 ~ 640 Hz frequency range.
➤	Denotes the step in a one-step procedure.
➤	Denotes a procedure.
	Used in a programming sequence to denote a variable LED button. A number on the black button represents a specific LED button.
• • •	Indicates continuation of a series of numbers entered.
<a href="#">See Figure 10</a>	Grey words within the printed text denote cross-references. In the electronic version of this document (Library CD-ROM or FYI Internet download), cross-references appear in blue hypertext.

## Related Documents/Media

**Note** Some documents listed here may appear in different versions on the CD-ROM, FYI or in print. To find the most current version, check the version/date in the Publication Information on the back of the document's title page.

The following documents and CD-ROMS can be used to reference further information about the Strata DK systems.

- ♦ **Digital Telephone User Guide** provides all the procedures necessary to operate Toshiba-proprietary digital telephones, including Liquid Crystal Display (LCD) features. It also includes instructions for using the add-on module/DSS console.
- ♦ **Digital Telephone Quick Reference Guide** provides a quick reference for frequently-used digital telephone features.
- ♦ **Digital Single Line Telephone User Guide** provides all the procedures necessary to operate Toshiba-proprietary digital single line telephones.
- ♦ **Electronic Telephone User Guide** explains all the procedures necessary to operate Toshiba-proprietary electronic telephones, including all LCD features. Does not apply to the Strata DK14 system. It also includes instructions for using the electronic DSS console.
- ♦ **Electronic Telephone Quick Reference Guide** provides a quick reference for frequently-used electronic telephone features. Does not apply to the Strata DK14 system.
- ♦ **Standard Telephone User Guide** explains all the procedures necessary to operate rotary dial and push-button standard telephones.
- ♦ **Strata AirLink External Wireless Handset User Guide** shows how to use the wireless handset configured to standard ports of the Strata DK telephone system and many non-Toshiba systems.
- ♦ **Strata AirLink External Wireless Quick Reference Guide** contains instructions for operation of commonly used Strata AirLink External Wireless Handset features.
- ♦ **Strata AirLink Integrated Wireless Handset User Guide** shows how to use the wireless handset configured to digital ports of the Strata DK telephone system.
- ♦ **Strata AirLink Integrated Wireless Quick Reference Guide** contains instructions for operation of commonly used Strata AirLink Integrated Wireless Handset features.
- ♦ **System Administrator Guide** gives instructions for the System Administrator to manage the system. Contains instructions for Station Relocation, System Speed Dial, and other features only activated by the System Administrator.
- ♦ **PC/Data Interface User Guide** explains all the procedures necessary to operate stand-alone data interface units while in the data mode for printer sharing and modem pooling. Also provides instructions on connecting to a Personal Computer with Telephone Application Programming Interface (TAPI).
- ♦ **Cordless Telephone User Guide** provides instructions on using the DKT2004-CT cordless digital telephone as a single unit or in conjunction with a digital telephone.
- ♦ **PC-DKT User Guide** provides installation and operation information for the Personal Computer Digital Key Telephone system.
- ♦ **Strata DK Feature Description Manual** describes each feature associated with the Strata DK424, DK40i and DK14. Also provides descriptions of compatible Toshiba-proprietary telephones and peripherals.

- ♦ **Keyprint 2000 User Guide** provides instructions for the Keyprint 2000 software printing package which allows you to print and store custom button label keystrips for Strata DK 2000-series 10-button or 20-button digital telephones, 20-button add-on modules, and 60-button digital DSS consoles.
- ♦ **Strata DK Programming Manual** provides all instructions necessary to program the system and system record sheets, including ACD.
- ♦ **Strata DK Installation & Maintenance Manual** provides installation instructions for configuring and installing the Strata DK14, DK40i and DK424. It also includes T1/DS-1 interface installation and configuration instructions, as well as fault finding flowcharts to troubleshoot the systems. An ACD Section provides instructions for installing ACD into the Strata DK424.
- ♦ **Strata AirLink External Wireless System Installation Guide** provides step-by-step hardware and software installation instructions. It includes examples of system configurations, information on performing a site survey, and troubleshooting techniques.
- ♦ **Hospitality Management Information System (HMIS) General Description** provides an overall view of the system's hardware, software, applications and features. The HMIS is a PC-based solution, designed to meet the specific operational needs of small- to medium-sized hotel/motels and includes both the PC and software.
- ♦ **Hospitality Management Information System (HMIS) User Guide** describes the product's many software features and gives step-by-step instructions for using them.
- ♦ **Strata DK Library CD-ROM** enables you to view, print, navigate and search publications for Strata DK14, DK40 and DK424 digital business telephone systems. It also includes Strata DK424 ACD Documentation, including the *DK424 Call Center Solutions General Description*, *ACD Agent Guide*, *ACD Supervisor's Guide*. ACD Installation and Programming instructions are included in the *Strata DK Installation and Maintenance Manual* and *Programming Manual*.
- ♦ **Strata DK HMIS CD-ROM** contains a copy of all HMIS documentation/bulletins and enables you to view, print, navigate and search publications.
- ♦ **StrataControl CD-ROM** contains the StrataControl software, that enables viewing, downloading, editing, and uploading Strata DK programmed data on a PC. This software also provides a method of creating custom lists and user guides based on information from the Strata DK system. The CD-ROM contains the *StrataControl User Guide*.
- ♦ **DKQuote CD-ROM** contains the DKQuote application and the DKQuote User Guide, that shows how to use this interactive software to assist you with Strata DK Systems configuration and pricing worksheets.
- ♦ **DKAdmin/DKBackup CD-ROM** includes the programs that let you easily and quickly custom program and/or update the Strata DK14/DK40/DK424 with a user-friendly PC display. The CD-ROM also contains the *DKAdmin/DKBackup User Guide*, that explains how to use the DKAdmin/DKBackup interactive software applications. The current version does not work with DK40i.

The following documentation and media applies to the Strata DK424 system only.

- ♦ **Strata DK424 Call Center Solutions General Description** provides a system overview, including hardware and feature information. Highlights the technology employed in operating the ACD Strata DK424 system.
- ♦ **ACD Agent Guide** describes the ACD agent feature operation along with step-by-step procedures for using features.
- ♦ **ACD Supervisor Guide** provides instruction on how to use the ACD supervisor features.

- ♦ **Insight DK CD-ROM** which includes training, all Insight DK documentation, Insight DK software and the upgrade to Insight DK Plus, and Demo software.
- ♦ **Insight DK Installation Guide** explains how to set up the network, install the server software, install clients and explains how the data files are organized.
- ♦ **Insight DK Supervisor Guide** provides instructions for using the Strata DK Insight and Insight DK Plus MIS for the Supervisor of a call center. Instructions for creating and using Real Time Displays, Reports, Alarms, and Wallboards are also included.
- ♦ **Insight DK inView Quick Reference Guide** provides instructions for viewing and customizing the on-screen wallboard and large character views of the real time call center data.
- ♦ **PC Attendant Console User Guide** explains the procedures necessary to operate the PC Attendant Console.
- ♦ **PC Attendant Console Quick Reference Guide** provides a quick reference for frequently-used PC Attendant Console features.
- ♦ **Call Center Viewer User Guide** describes how to install and operate the Call Center Viewer application on a PC. It explains how to view and customize ACD group and agent status information.
- ♦ **Software MIS (SMIS) Supervisor Manual** provides descriptions, examples, and instructions on using the Software MIS application.

For authorized users, Internet site FYI (<http://fyi.tsd.toshiba.com>) contains all current Strata DK documentation and enables you to view, print, and download current publications.

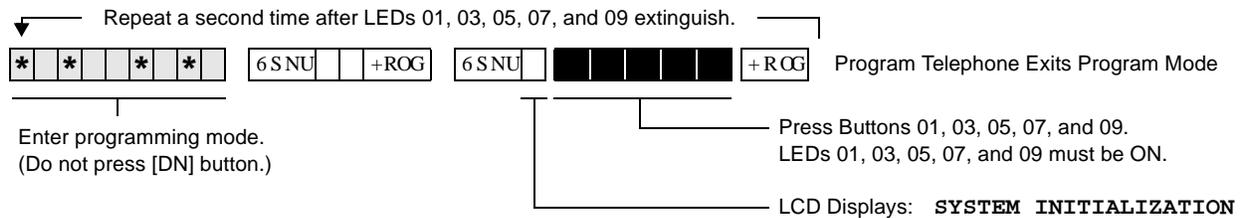


## Program 91-9 – System Initialization

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Initialization

**Initialized Default:** See individual programs

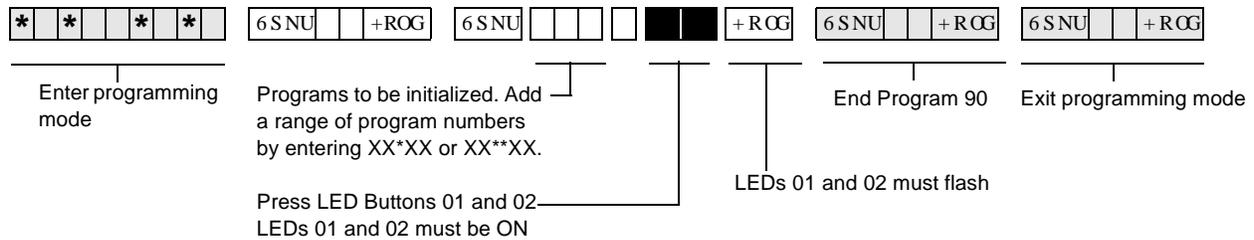


## Program 90 – Initialize Programs 00~\*99

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Initialization

**Initialized Default:** See individual programs

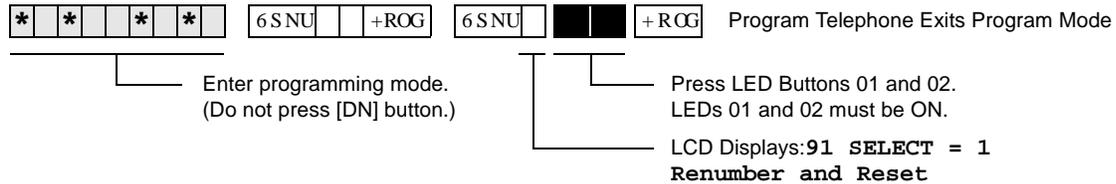


# Program 91-1 – Automatic PCB Recognition and Port Renumber

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Initialization

**Initialized Default:** None

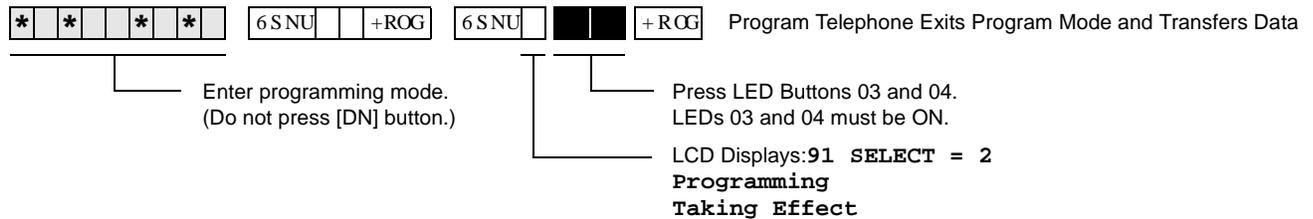


# Program 91-2 – Data Transfer from Temporary Memory to Working Memory

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Initialization

**Initialized Default:** See individual programs

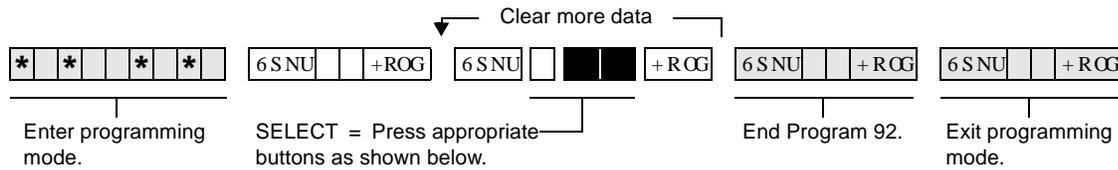


# Program 92 – Initializing Misc. Backup RAM

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Initialization - Includes: Initializing Speed Dial Number, VM ID Codes, Character Message Memory, Timed Reminders, Digital Telephone Volume, Called ID, ANI, and Call Forward Backup RAM

**Initialized Default:** See individual programs



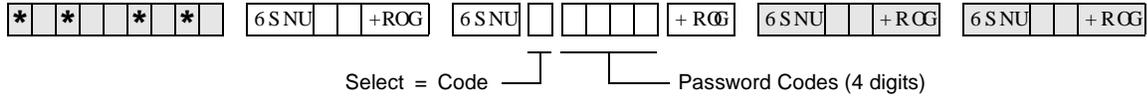
- [blank] [blank] [blank] Clears Station Speed Dial, Voice Mail ID Codes, and LCD memos assigned to Station Speed Dial numbers.
- [blank] [blank] [blank] Clears System Speed Dial and LCD memos assigned to System Speed Dial numbers.
- [blank] [blank] [blank] Clears Character Message Memory (Station and System) and User Name/Number Display.
- [blank] [blank] [blank] Clears Timed Reminders.
- [blank] [blank] [blank] Resets digital telephone volume levels to initialized settings, specifically, speaker volume levels for Internal Calls [DN], Tone/BGM, Busy Override (muted ring), and Ring volume to approximately mid-range on all DKTs. Program 92-5 does not affect digital telephone handset receiver volume levels. Use Program 27 to set off-hook digital telephone handset receiver volume levels.
- [blank] [blank] [blank] [+ROG] Power OFF 5 seconds; then Power ON Clears Call Forward and Message Waiting Memory (all stations). Program 92-9 does not affect Call Forward External or Fixed Call Forward settings.

# Program 00 – Part 1: Software Check

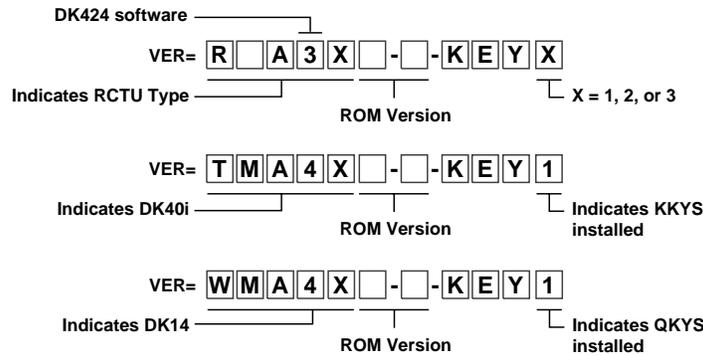
**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Test - Includes: Remote Maintenance Security Code Assignments

**Initialized Default:** None



Select = Code	Item	Password or S/W Check Codes	LCD Display
0	ROM Version (not programmable)		Version =
1	1st Level Password		Password =
2	2nd Level Password		Password =
8	Software RAM Checksum (not programmable)		Sum =
9	Power Cycle Counter (not programmable)		Counter =



DKT LCD Display	RCTU Type
WMA4	DK14
TMA4	DK40i
RAA3X	RCTUA3
RBA3X	RCTUBA3/RCTUBB3
RCA3X	RCTUC3/D3
REA3X	RCTU E3/F3

Key Type	Description
KEY 1	AA: Indicates built-in Auto Attendant software (RKYS1, KKYS, or QKYS installed).
KEY 2	ACD: Indicates Automatic Call Distribution software and AA (RKYS2 installed).
KEY 3	ACD/MIS: Indicates Automatic Call Distribution, Management Information System Software, plus AA and ACD (RKYS3 installed).

# Program 00 – Part 2: Processor RAM Test

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Test - Includes: Remote Maintenance Security Code Assignments

**Initialized Default:** None

## General RAM Test

\* \* \* \* 6 SNU +ROG 6 SNU +ROG Tests RAM (15 seconds downtime)

Programming Telephone LCD Displays: \_\_\_\_\_  
**GENERAL RAM TEST**

## Display General RAM Test Results

\* \* \* \* 6 SNU +ROG 6 SNU Programming Telephone LCD Displays:

**DK424**

**TEST 1 X=OK Y=OK**

or...

**TEST 1 X=NG Y=NG  
 X=00000 X=00000**

**DK14/DK40i**

**TEST 1 =OK**

or...

**TEST 1 =NG**

Where:

X = RCTUA, RCTUBA, RCTUC

Y = RCTUD3, RCTUF

OK = RAM is good

NG = RAM is defective

An **X=NG** or **Y=NG** RAM test result indicates a defective RCTU PCB; change the appropriate (X or Y) RCTU PCB and retest RAM on the newly installed RCTU.

Replace the DK14 KSU or DK40i Base KSU if **Test 1=NG**.

## Backup RAM Test

\* \* \* \* 6 SNU +ROG 6 SNU +ROG RCTU Tests RAM (15 seconds downtime)

Programming Telephone LCD Displays: \_\_\_\_\_  
**BACKUP RAM TEST**

## Initialization & Test

Program 00 – Part 2: Processor RAM Test

### Display Backup RAM Test Results

\* \* \* \*

6 SNU +ROG

6 SNU

Programming Telephone LCD Displays:

#### DK424

TEST 2 X=OK Y=OK

or...

TEST 2 X=NG Y=NG  
X=00000 X=00000

#### DK14/DK40i

TEST 1 =OK

or...

TEST 2 =NG

Where:

X = RCTUA, RCTUBA, RCTUC

Y = RCTUD3, RCTUF

OK = RAM is good

NG = RAM is defective

An **X=NG** or **Y=NG** RAM test result indicates a defective RCTU PCB; change the appropriate (X or Y) RCTU PCB and retest RAM on the newly installed RCTU.

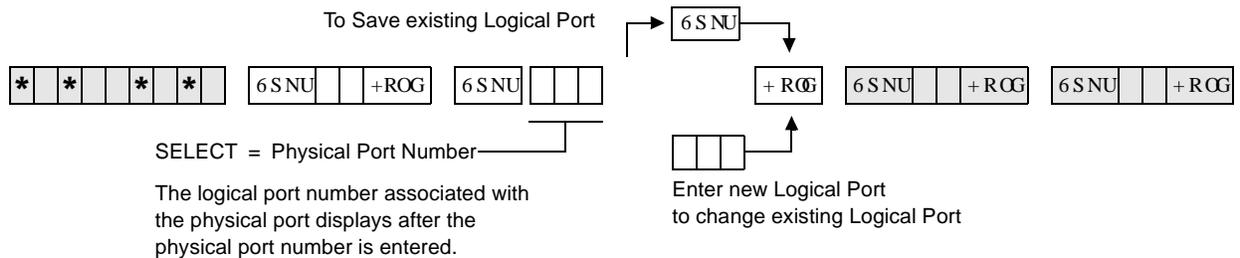
Replace the DK14 or DK40i Base KSU if **Test 1=NG**.

## Program 01 – Station Logical Port Display and/or Change

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Station

**Initialized Default:** Logical port number = physical port number  
 Program 90, 91-1, or 91-9 initializes Program 01



Processor	[PDN] Port Range
DK14	000-009
DK40i	000-027
RCTUA	000-031

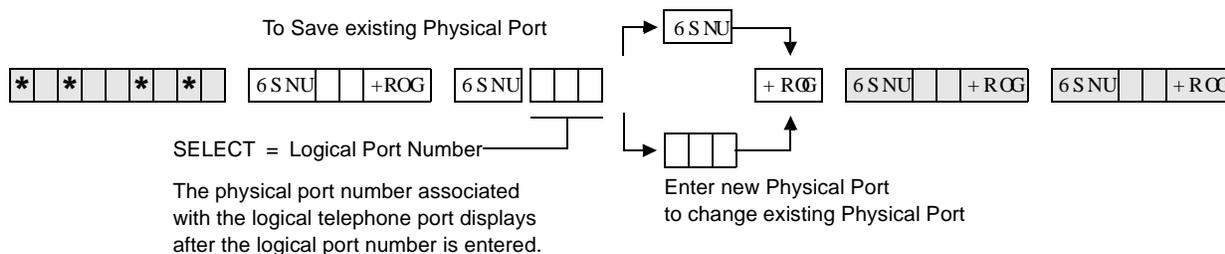
Processor	[PDN] Port Range
RCTUBA/BB	000-079
RCTUC/D	000-239
RCTUE/F	000-335

# Program 02 – Station Physical Port Display and/or Change

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Station

**Initialized Default:** Logical port number = physical port number  
Program 90, 91-1, or 91-9 initializes Program 02



Processor	[PDN] Port Range
DK14	000-009
DK40i	000-027
RCTUA	000-031

Processor	[PDN] Port Range
RCTUBA/BB	000-079
RCTUC/D	000-239
RCTUE/F	000-335

## Program 03 for DK14 – Slot Assignments

When DK14 is powered ON, Program 03 automatically assigns the correct codes for installed PCBs. No record sheet is needed. Refer to the following table for PCB slot and slot code information:

### DK14 Base KSU

	WMAU	DKU	COU and QCDU2	QSTU2	None
Slot Number	00	11	12	13	14
PCB Code	91 or 92	62	11	00 or 31	00
PCB Type	QRCU3				
Options		OCA/DIU			
Station Numbers		000-007		008-009	
CO Line Numbers			001-004		

### Notes

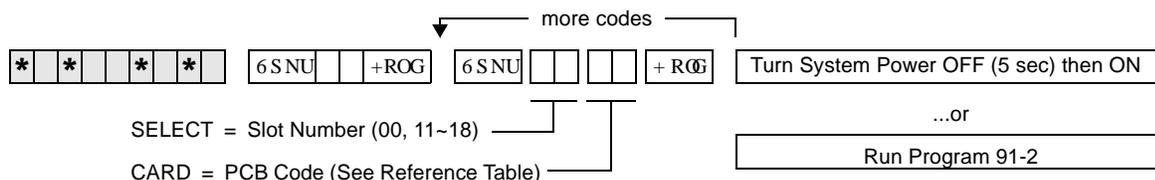
- In the DK14 software: QCDU2 digital ports are considered to be installed in slot 11. QCDU2 CO lines are considered to be installed in slot 12.
- opt=QRCU3
- opt=Always assigns 8 ports (000~007), digital ports (OCA/DIU). No DSS allowed.
- Always assigns 4 CO lines
- Always assigns 2 ports (008, 009) standard telephone ports

# Program 03 for DK40i – Flexible PCB Slot Assignments

Processor Type: *DK40i*

Program Type: *System*

Initialized Default: *PCB codes of PCBs installed prior to running Program 91-1 or Program 91-9 Code 00 for empty slots (15-18), Base KSU has codes for PCBs*



## DK40i Base KSU

	TMAU2	DKU	TBSU, TCOU or TDDU	KSTU2	TCIU2
Slot Number	00	11	12	13	14
PCB Code	91, 92 or 98	62 or 64	00, 11, 16, or 77	00 or 31	00 or 81
PCB Type					
Options					
Station/BRI Port Numbers					
CO/DID/BRI Line Numbers					

## PCB Code Reference Table

PCB Fixed Slot	Code	Ports/Type
Common Control	91	None
Common Control w/K4RCU3	92	4 DTMF/ABR
Common Control w/K5RCU or K5RCU2	98	5 DTMF/ABR
PIOU/PIOUS/RSSU/PEPU	41	None
PEKU	21	8 EKT
PEKU with EOCU	22	8 EKT
PEKU with DSS	23	8 EKT
PEKU with EOCU, DSS	24	8 EKT
PESU	25	2 SLT/4 EKT
PESU with EOCU	26	
KSTU2/RSTU2/Strategy DK	31	4 SLT/8 SLT/8VM
TCOU/PCOU/RCOU/RGLU2	11	4/CO
RCOU + RCOS	17	8 Loop CO
Base Unit DKT CKTs, PDKU, and RWIU	61	8 DKT
Base Unit DKT CKTs & PDKU w/ DIU or SP-OCA	62	8 DKT
Base Unit DKT CKTs and PDKU with DSS (w/ or w/o DIU or SP-OCA)	64	8 DKT
KCDU	65	2/CO, 4 DKT
KCDU SP-OCA or DIU	66	2/CO, 4 DKT
RDSU (RSTS)	27	4 DKT/4 SLT
RDSU (RSTS) with DIU or SP-OCA	28	4 DKT/4 SLT
RDDU/TDDU	16	4 DID Lines
REMU	13	4 Tie Lines
RCIU2/RCIS/TCIU2	81	4 or 8 Caller ID
TBSU or RBSU	77	2 BRI S/T
RBSU/RBSS	78	4 BRI S/T
TSIU		No Code Required
None	00	None

## DK40i Expansion KSU

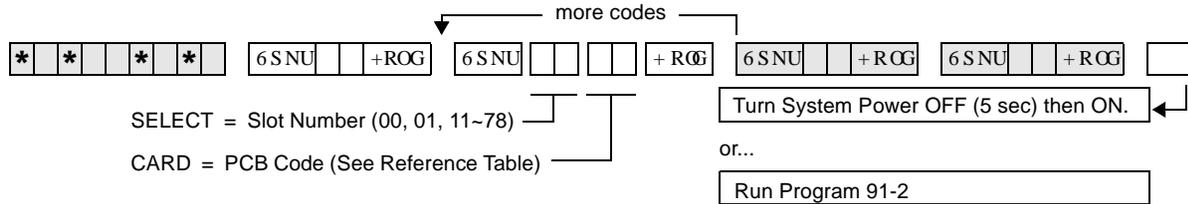
Cabinet Label	04	05	06	07
Slot Number	15	16	17	18
PCB Code				
PCB Type				
Options				
Station/BRI Port Numbers				
CO/Tie/DID/BRI Line Numbers				

# Program 03 for DK424 – Flexible PCB Cabinet Slot Assignments

**Processor Type:** All RCTUs

**Program Type:** System

**Initialized Default:** PCB codes of PCBs installed prior to running Programs 91-1 or 91-9;  
Code 00 for empty slots



## DK424 Base Cabinet 1

Slot Number	00 (R11)	01 (RCTU)	S11	S12	S13	S14	S15	S16
PCB Code								
PCB Type								
Options								
Station/Tie/DID/ISDN Port Numbers								
CO/Tie/DID/ISDN Line Numbers								

## DK424 Expansion Cabinet 2

Slot Number	S21	S22	S23	S24	S25	S26	S27	S28
PCB Code								
PCB Type								
Options								
Station/Tie/DID/ISDN Port Numbers								
CO/Tie/DID/ISDN Line Numbers								

## DK424 Expansion Cabinet 3

Slot Number	S31	S32	S33	S34	S35	S36	S37	S38
PCB Code								
PCB Type								
Options								
Station/Tie/DID/ISDN Port Numbers								
CO/Tie/DID/ISDN Line Numbers								

## DK424 Expansion Cabinet 4

Slot Number	S41	S42	S43	S44	S45	S46	S47	S48
PCB Code								
PCB Type								
Options								
Station/Tie/DID/ISDN Port Numbers								
CO/Tie/DID/ISDN Line Numbers								

**DK424 Expansion Cabinet 5**

Slot Number	S51	S52	S53	S54	S55	S56	S57	S58
PCB Code								
PCB Type								
Options								
Station/Tie/DID/ISDN Port Numbers								
CO/Tie/DID/ISDN Line Numbers								

**DK424 Expansion Cabinet 6**

Slot Number	S61	S62	S63	S64	S65	S66	S67	S68
PCB Code								
PCB Type								
Options								
Station/Tie/DID/ISDN Port Numbers								
CO/Tie/DID/ISDN Line Numbers								

**DK424 Expansion Cabinet 7**

Slot Number	S71	S72	S73	S74	S75	S76	S77	S78
PCB Code								
PCB Type								
Options								
Station/Tie/DID/ISDN Port Numbers								
CO/Tie/DID/ISDN Line Numbers								

**DK424 PCB Codes**

PCB	Code	Ports/Type
RCOU, RGLU2	11	4 Gnd./Loop Lines
RCOU/RCOS	17	8 Loop CO Lines
RDDU	16	4 DID Lines/4 Stations
REMU	13	4 Tie Lines/4 Stations
PEKU	21	8 Stations
PEKU (EOCU)	22	8 Stations
PEKU w/DSS	23	8 Stations
PEKU (DSS, EOCU)	24	8 Stations
PESU	25	6 Stations
PESU (OCA)	26	6 Stations
RDSU/RSTS	27	8 Stations
RDSU/RSTS (OCA, DIU)	28	8 Stations
RSTU2	31	8 Stations
PIOU, PIOUS/ RSSU, PEPU	41	Remote Maintenance (TTY)
PIOU/PIOUS/RSSU	42	MIS for ACD (TTY)
PIOU/PIOUS/RSSU	43	SMDI VM Interface (TTY)
PDKU2, RWIU	61	8 Stations
PDKU2 (OCA, DIU)	62	8 Stations
PDKU2 (DSS, OCA, DIU)	64	8 Stations

PCB	Code	Ports/Type
RDTU	71	8 T1 Channels
RDTU	72	16 T1 Channels
RDTU	73	24 T1-channels
RCTU	91	None
RCTU (with 4-CKT RRCS)	92	None
RCTU (with 8-CKT RRCS)	93	None
RCTU (with 12-CKT RRCS)	94	None
NONE	00	00
RATU	51	4 Stations
RSIU	49	I/O Interface
RCIU2/RCIS	81	8 CKT, Caller ID
Stratagy DK	31	8 VM Ports
RBUU without RBUS	75	2 U Interfaces (4 stations/4 CO lines)
RBUU with RBUS	76	4 U Interfaces (8 stations/8 CO lines)
RBSU without RBSS	77	2 S/T Interfaces (4 stations/4 CO lines)
RBSU with RBSS	78	4 S/T Interfaces (8 stations/8 CO lines)
RPTU Interface Card	79	PRI Interface (24 CO lines)

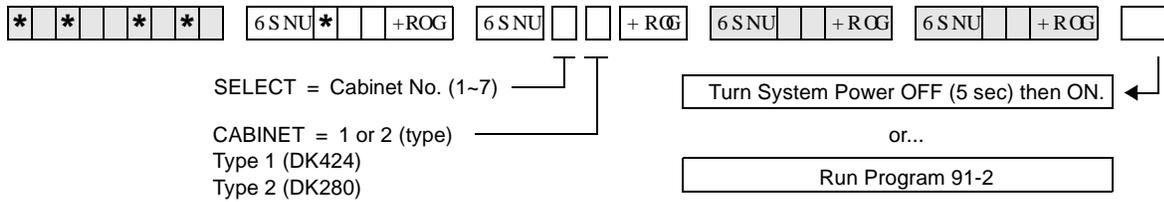
See the following text for specific installation rules on the above PCBs.

# Program \*03 for DK424 – Cabinet Type Identification

**Processor Type:** RCTUE/F only

**Program Type:** System

**Initialized Default:** All cabinets = 1



SELECT = (Cabinet No. 1~7)	Cabinet Type (1 or 2)
1 (Base)	
2 (1st Expansion)	
3 (2nd Expansion)	
4 (3rd Expansion)	
5 (4th Expansion)	
6 (5th Expansion)	
7 (6th Expansion)	1 only

## Expansion Cabinet Universal PCB Slot Availability

### Case 1

RCTUE/F in DK424 Base Cabinet with MBJU removed

Expansion Cabinet (max 6)	Universal PCB Slots
DK424	1~8 available
DK280	1~6 available

### Case 2

RCTUE/F in DK280 Base Cabinet

Expansion Cabinet (max 5)	Universal PCB Slots
DK424	1~6 available
DK280	1~6 available









# Program 05 – Flexible Access Code Numbering

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** System

**Initialized Default:** See record sheet



SELECT = Access Code (1-9) ——— SPECIAL DIAL = New Access Codes  
See the table below for standard access codes.

The first digit of access codes can be replaced by 2 digits.

Press LED Button 01 to enter blanks.

Default Access Code	Features Affected (N/A = Not Affected/ Cannot Change)	New Access Codes
0	Unused	
1	Voice First/Tone First (Dial 1-N/A) Door Phones: (#151-#159; #161-#163) IMDU or RMDS Access: DK424 and DK40i (#19) Default [PDNs] and Park Orbits (see Program 04)	Station LCD Messages (10-19-N/A) Station Speed Dial (100-139-N/A) RCTUE/F Station Speed Dial Set (10-49-N/A) RCTUA, BA/BB, C/D
2	Default [PDNs] and Park Orbits (see Program 04) Busy Override (Dial 2-N/A) Do Not Disturb Override (Dial 2-N/A)	ACD Ports (*04, *09, 71) Off-hook Call Announce (2-N/A) RCTUE/F System Speed Dial (200-999)
3	Default [PDNs] and Park Orbits (see Program 04) Executive Override (Dial 3-N/A) All Call Voice Page (#30) All Call Voice Page with External Spkrs (#39) RCTUE/F Ext Page Zones #351-#358	RCTUA-C/D External Page Zones 1-4 (#35-#38) Group Page (Internal) (#311-#318) Park + Page (Cnf+#331) Park Pick Up [DN]+#331 (see Program *05) Park + Hold (Cnf+#332)
4	Default [PDNs] and Park Orbits (see Program 04) Default [PhDNs] (see Program *04) Automatic Callback (Dial 4-N/A) CO Line Queuing (Dial 4-N/A) Station Number Display (#401) Port Number Display (#402) Hold (#41) Hold Pickup (#42) Automatic Busy Redial (Conf + #44) Automatic Busy Redial Cancel (Int + #44) Message Waiting Answer (#408) from INT, [PDN], or [PhDN] Display [PDN], [SDN], or [PhDN] on LCD (#407) Emergency Call to Attendant Console (#400) Standard telephone Redial (44) or dial # for feature access code Flash (Cnf + #45) Account Code Input (Cnf + #46)	T.R. Override/T. Class Code Input (Cnf + #47) BGM Over Stations ON (#481) BGM Over Stations OFF (#480) BGM Over External Speakers ON (#491)(Station Port 000 only) BGM Over External Speakers OFF (#490)(Station Port 000 only) Cancel Message Waiting at Station (#409) from [PDN] or [PhDN] Retrieve Message Waiting (#408) Access Code/Speed Dial Prefix (44 or #) To store a CO line or feature access code in Speed Dial memory from rotary phones or phones without the Speed Dial and Redial buttons, enter 44 + 7XXX instead of # + 7XXX. Start Trace #489 (Station Port 000 only) Stop Trace #488 (Station Port 000 only) Cancel Auto Call Back (#43)

System & Station

## System & Station

### Program 05 – Flexible Access Code Numbering

Default Access Code	Features Affected (N/A = Not Affected/ Cannot Change)	New Access Codes
<b>5</b>	<p>Call Pickup Station (#5+Station No.), Ringing CO or DID line (#59)</p> <p>Directed Pickup of CO Line on Hold (#5+#7 XXX, XXX = 001~200),</p> <p>Pick-up External Page (#5 + #30 or for Zone Page #5+#35~#38)</p> <p>#5#79 Pick up Tandem Connection (Release 3.2 and above)</p>	<p>Selected Group Pickup (#5+#320~#339)</p> <p>Own Group(s) Pickup (#5+#34)</p> <p>Pickup Ringing Line (#59)</p> <p>[DN] Pickup #5#2+XXX (XXX=[PDN] or [PhDN], DK Release 3.1 and above)</p> <p>Verified Account Codes (DK14, DK40i, RCTUA~C/D: Speed Dial + 50; RCTUE/F Speed Dial + 050)</p>
<b>6</b>	<p>Call Forward (#601, #602, #603, #604)</p> <p>Timed Reminder (#605~#609)</p> <p>M/W for Voice Mail ON (#63+Station No.)</p> <p>M/W for Voice Mail OFF (#64+Station No.)</p> <p>Voice Mail ID Code Set (Call Fwd, #656)</p> <p>Voice Mail ID Code Set (Ans. MW, #657)</p> <p>LCD Message Set (#68)</p> <p>DKT Mute Ring Adjust (#6101)</p> <p>DKT Ring Level Adjust (#6102)</p> <p>Port Swap/Station Relocation OFF (#6281)</p> <p>Station Relocation ON (#6282)</p> <p>Logical Port Swap ON (#6283)</p> <p>Call Forward Ext Set or Remote Change Code (#670)</p> <p>Date Set (#651)</p> <p>Time Set (#652)</p> <p>Weekday Set (#653)</p>	<p>T.R. Override Code Change (#654, #655)</p> <p>System Speed Dial</p> <p>(N/A 600~699 RCTUB, RCTUBA/BB, &amp; RCTUC/D)</p> <p>System Speed Dial Set (N/A 60~99 - DK14, DK40i and RCTUA)</p> <p>LCD User Name (#621-Set, #620-Reset, TR dial plan Set #650 +6267 +7/8/9 Change)</p> <p>DISA Security Code Change (#658)</p> <p>Verified Account Code Change (#659)</p> <p>Set LCD Messages (#68)</p> <p>System LCD Messages (N/A 60-99)</p> <p>Traveling Class Code 1~8 Change (#691~#698)</p> <p>Logical Port Swap (#627 + Destination Intercom No.)</p> <p>Physical Port Calling (#629 + Physical Port No.)</p> <p>Message Waiting Set/Cancel (N/A) (7) (77)</p> <p>Night Lock Password Change (#622)</p>
<b>7</b>	<p>CO Line Outgoing Calls (#7001~#7200)</p> <p>To store a CO line or feature access code in Speed Dial memory from rotary telephones or telephones without the Speed Dial and Redial buttons, enter 44 + 7XXX instead of # + 7XXX.</p>	
<b>8</b>	<p>CO Group Outgoing Calls (801~816)</p>	<p>Default Distributed Hunt [DNs] (850~ 865)</p> <p>See Program *04</p>
<b>9</b>	<p>Least Cost Routing or CO Group (9), Distributed Hunt Group Prog *04 Port Ref. (900~915)</p>	

# Program \*05 – Call Park Pickup Abbreviated Dialing

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** System

**Initialized Default:** Blank



SELECT = 1 ——— DATA = 1 or 2 digit abbreviated dialing for Call Park Pickup.

SELECT = Call Park type:  
 1 = Change #331 Call Park Pickup Code  
 2 = Change #332 Call Park Pickup Code

It is only necessary to change one code, but each code can be changed to the same or

# Program 09 – Built-in Auto Attendant Prompt / Station Assignments

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** System and ACD

**Initialized Default:** Blank



SELECT = Prompt ——— AUTO ATT DIAL = (1-4 digits)  
 Press prompt number offered to caller. First or second digit. Enter the station numbers, [PDNs], [PhDNs], DH [DNs], or #4 plus the ACD Group No. which will receive Auto Attendant calls. Could be \* if establishing the first digit.

Press LED Button 01 to delete data.

Dialed Digit (Menu Prompts)	Station Number [PDN]	Department, Division, Etc.
0		
1		
2		
3		
4		
5		
6		
7		
8		
9		

System & Station



# Program 10-1 – System Assignments, Part 1 of 3

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** System

**Initialized Default:** LEDs 07, 08, 09, 16, 18, 19 and 20 are ON



SELECT = 1  Light the LED Buttons that are marked with an X in the table below.

Button/ LED	X	LED ON	LED OFF
20		Two-CO Line Conference/Allowed	Not Allowed  Two-CO line Conference must be allowed for Tandem Line, DISA, CF-EXT, and DNIS external routing operation. Also See Program 15, Code 5.
19		Conference/Allowed	Not Allowed
18		Ring Detect Time-Normal	Ring Detect Time-Short Rings
17		Station to Station Call Volume PAD (-8db)	No Station to Station Call PAD
16		BRI Standard Initialization (2 TEIs)	None (TEI = 0)
15-13		Not Used	Not Used
12		ABR Cycles/10 times	15 times
11		ABR Redial time/30 sec.	1 min.
10		System Speed Dial Override, Toll Restriction	Restricted
09		Exclusive Hold/Allowed	Not Allowed
08		Alternate Point Answer	Transfer Privacy
07		Ring Transfer of CO Line Allowed	Not Allowed  If Ring Transfer is allowed, set Ring Transfer Recall time in Program 37; if ring transfer is not allowed (LED 07 OFF), the station recalls immediately if transfer is attempted.
06		CO Line Repeat Ringing	Standard Ring  Standard ring pattern is 1 sec. on, 3 sec. off.
05		Incoming Call Abandon 8 sec.	6 sec.
04		CO Line DTMF Signal Time 160 msec.	80 msec.  LED 04 DTMF Signal Time applies to manual and speed dial tones sent out of the system via CO lines. This applies when dialing from any Toshiba telephone, including the 2000-series Digital Telephone. LED 04 does not apply to Call Forward or Voice Mail ID DTMF tones sent to voice mail ports. (See Program 10-2, LED 06, for tones sent to Voice Mail ports.)
03		Dial Pulse Make Ratio 33%	40%
02		0.45 or 1.5 sec. per Program 42-0	CO Line Re-seize guard time 0.45  CO line guard time is the time interval the system requires to release a CO line and re-seize it. If LED 02 is off, all lines are set with 0.45 second guard time; if LED is on, guard time is 0.45 or 1.5 seconds per Program 42-0.
01		Tone First (from SLTs, DKTs and EKTs)	Voice First (from SLTs, DKTs and EKTs)  This applies to [PDNs] not [PhDNs]; [PhDNs] are always tone first.

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# Program 10-2 – System Assignments, Part 2 of 3

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** System

**Initialized Default:** LEDs 02, 14, 15, and 16 are ON



SELECT = 2  Light the LED Buttons that are marked with an X in the table below.

Button/ LED	X	LED ON	LED OFF
20		Padded DTMF Tone Return When Dialing	DTMF/No DTMF Per Prog 10-2, LED 11
19		External Conference Amp Connected to PEKU	No External Amplifier Connected
18		External Conference Amp Connected to PEKU	No External Amplifier Connected
17		"TRNS" Soft Key—Immediate	"TRNS" Soft Key—Normal
16		Executive Override Warning Tone/ON	Executive Override Warning Tone/OFF
15		External Page included with All Call Page	Not Included - see Button/LED 20 note.
14		Privacy Override/Attendant/Supervised Loop Warning Tone/ON	Privacy/Attendant Supervised Loop Override Warning Tone/OFF
13		Send Auto Callback Camp-on Tone	No Callback Tone. Called party receives notification tone when calling party activates Auto Call Back.
12		CO Line 3 min Beep Tone	No Beep Tone
11		No DTMF Tone Return When Dialing	DTMF tone return when dialing
10		BGM connected to PESU, Circuit 8	EKT connected to PESU, CKT 8
09		BGM connected to PEKU, Circuit 3	EKT connected to PEKU, CKT 3
08		Elapsed Time Display 1 min. After Access or Answer a CO line	Elapsed Time Display 15 sec. After Access or Answer a CO Line
07		Standard Tel. CO Ring per Prog. 10-1, LED 06	Standard Tel. CO Ring Distinctive
06		VM ID Code DTMF Signal Time 80 ms	160 ms
05		Send Music-on-hold.	Send Ringback Tone to the transferred party.
04		MW cancel from VM: RS-232 or dial #64 + [DN]	MW cancel from VM: Automatic When Answer
03		3 Ringing Modes	2 Ringing Modes
02		Hunt/C.F. override from DSS console's phone	Hunt/C.F. override from DSS console
01		Tone First (from DSS Console)	Voice First (from DSS Console) This applies to [PDNs] not [PhDNs]; [PhDNs] are always tone first.

# Program 10-3 – System Assignments, Part 3 of 3

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** System

**Initialized Default:** LEDs 11, 13 and 20 ON, all other LEDs OFF



SELECT = 3 Light the LED Buttons that are marked with an X in the table below.

Button/ LED	X	LED ON	LED OFF
20		SMDI Message Desk Number (001) is sent in SMDI packet.	CO line number is sent in SMDI packet.
19		Speed Dial Entry Timeout- 3 minutes	Speed Dial Entry Timeout - 1 minute
18		Auto Attendant: Normal Ringing Pattern After Camp-on	Auto Attendant: Back to Announcement After Camp-on
17		Auto Attendant: Ring Before Disconnect time	Auto Attendant: Ring Before Disconnect time
16		Auto Attendant: Ring Before Disconnect time	Auto Attendant: Ring Before Disconnect time
15		Auto Attendant: Sends MOH to Caller	Auto Attendant: Sends RBT to Caller
14		SMDI-Bellcore Standard VM Interface, per LED 09 Below	Not used
13		SMDI-Station Number Digit Length (HEX-8)	SMDI-Station Number Digit Length (HEX-0)
12		SMDI-Station Number Digit Length (HEX-4)	SMDI-Station Number Digit Length (HEX-0)
11		SMDI-Station Number Digit Length (HEX-2)	SMDI-Station Number Digit Length (HEX-0)
10		SMDI-Station Number Digit Length (HEX-1)	SMDI-Station Number Digit Length (HEX-0)
09		Bellcore Standard 1985 Version (1-space)	Bellcore Standard 1985 Version (2-space)
08		Caller ID/ANI numbers are sent out the SMDI port	Caller ID/ANI numbers are not sent out the SMDI port.
07			
06			
05			
04		PEKU Ports 33, 34-Amp, connected (RCTUBA/BB or higher)	PEKU Ports 33, 34-stations connected
03		PEKU Ports 25, 26-Amp, connected	PEKU Ports 25, 26-stations connected
02		PEKU Ports 17, 18-Amp, connected	PEKU Ports 17, 18-stations connected
01		PEKU Ports 09, 10-Amp, connected	PEKU Ports 09, 10-stations connected

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# Program \*10 – Enhanced 911 Operation

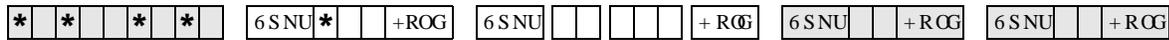
**Processor Type:** DK14, DK40i, all RCTUs

**Program Type:** System

**Initialized Default:** See each program

## Programs \*10-11 and \*10-12 – E911 Standard Telephone Ports Assignment

**Initialized Default:** Blank



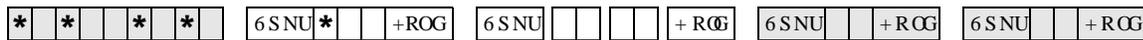
First E911 Port = 11 — E911 RSTU/KSTU2 Port Number

Second E911 Port = 12

E911 RSTU/KSTU2/QSTU2 Port Number	
First Standard Port	
Second Standard Port	

## Program \*10-91 – E911 Interdigital Time

**Initialized Default:** 15 seconds



Interdigit Timer = 91 — 01-15 seconds

Interdigit Timer		seconds
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## Program \*10-92 – E911 Pause Before Send Timer

**Initialized Default:** 0 - No pause



Pause Timer = 92 — 0 = No pause  
1 = 1.5 second pause  
2 = 3 second pause

Pause Timer		seconds
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# Program 12 – System Assignments, Basic Timing

Processor Type: *DK14, DK40i, All RCTUs*

Program Type: *Station*

Initialized Default:

Program Timing	
Code 1	15 secs.
Code 3	1
Code 4	2
Code 5	0
Code 8	1
Code 9	4

\* \* \* \* \* 6 SNU +ROG 6 SNU +ROG 6 SNU +ROG 6 SNU +ROG

SELECT = 1, 3-5, 8, 9 DATA = Enter ring down time (00-60)

Enter program code from the table below.

SELECT CODE = Enter the 1 digit code which corresponds to the time listed in the table below.

For Program Codes 8 and 9, the LCD responds with LINE TIME =, instead of SELECT CODE =.

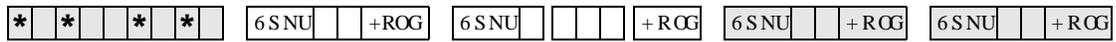
Program Code	Function	Code	Time	Required Code
1	Standard Telephone Ring Down Timer (Release 4.0)	XX	XX = 2 digits. 00-60 secs.	
3	Pause Timing (Speed Dial)	1	1.5 sec	
		2	3.0 sec.	
4	Flash Timing	1	0.5 sec.	
		2	2.0 sec. (Not used in U.S.)	
		4	0.2 sec.	
5	Pause After Flash (Voice Path Delay)	0	no pause	
		1	1.5 sec.	
		2	3.0 sec.	
8	DNIS Ext. Network, External Call Forward, and DISA Disconnect Timer for Loop Start Lines	0	no disconnect timer	
		1	4 min. disconnect	
		2	10 min. disconnect	
		3	20 min. disconnect	
9	QRCU3/K4RCU3/RRCS DTMF Inter-digital Release Time (Standard Phone)	1-9	1-9 secs.	

# Program 13 – Defining the Message Center

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Station

**Initialized Default:** No port assigned



SELECT = 1 ———— PORT = Station Logical Port Number

Enter the station logical port number of the station to be defined as the Message Center.

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Port Number

For RS-232 SMDI and In Band (DTMF) voice mail integration, enter the lowest QSTU2/KSTU2/RSTU2 standard telephone port connected to the VM device (see notes below.)

# Program 15 – Ground/Loop/Tie/DID Line Options

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** System

**Initialized Default:** All LEDs are OFF



SELECT = Program Code

LED Buttons = CO line

Press 6FUR0 to advance or 3DJ H to go back.

Specify CO line by setting LEDs as defined by the table below. When you are finished, all LEDs with an "X" should be lit.

To advance the CO line range, press 6FUR0 located beneath the LCD. Press 3DJ H for a lower range.

Processor Type	CO Line Range
DK14	001-004
DK40i	001-012
RCTUA	001-016

Processor Type	CO Line Range
RCTUBA/BB	001-048
RCTUC/D	001-144
RCTUE/F	001-200

Program Code	Program	LED ON	LED OFF	Line																			
				LED																			
				01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
0	CPC on AR VM Calls and Voice Calls	Detect	Ignore																				
1	CO/DID/Tie Line Signal	DP	DTMF																				
2	CO/DID/Tie Dial Pulse Rate (Pulse per sec.)	20 PPS	10 PPS																				
3	AR Hold	Detect	Ignore																				
4	AR Timing	Crossbar 95 msec.	ESS (electronic) 450 msec.																				
5	Tandem CO Line Connection with Station Dropout	Enabled	Not Enabled																				
7	Forced Account Code	Enabled	Not Enabled																				
8	Operation After CO Line Flash	No DTMF receiver After Flash	DTMF receiver After Flash																				

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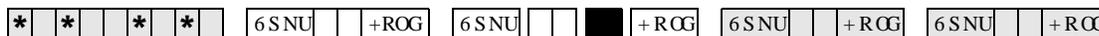


# Program 16 – Assign CO Line Groups (or Dial 9)

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** System

**Initialized Default:** All CO lines assigned to the Dial 9 group



SELECT = CO Line Group (see legend)

LED Buttons = CO line

Only enter the last two digits of the CO line Group, or enter for Dial 9 group.

Specify CO line by setting LEDs as defined by the table below. When you are finished, all LEDs with an "X" should be lit.

Press 6FURD to advance or 3DJH to go back.

To advance the CO line range, press 6FURD located beneath the LCD. Press 3DJH for a lower range.

Processor Type	CO Line Range	CO Line Groups
DK14	001~004	01~04
DK40i	001~012	01~08
RCTUA	001~016	01~08

Processor Type	CO Line Range	CO Line Groups
RCTUBA/BB	001~048	01~08
RCTUC/D	001~144	01~16
RCTUE/F	001~200	01~16

LED	Line Number	CO Line Groups														Dial 9(00)	
20																	
19																	
18																	
17																	
16																	
15																	
14																	
13																	
12																	
11																	
10																	
09																	
08																	
07																	
06																	
05																	
04																	
03																	
02																	
01																	

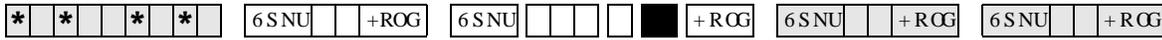
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# Program 17 – DID/Tie Line Options

**Processor Type:** DK40i, All RCTUs

**Program Type:** System

**Initialized Default:** LED 01/02 OFF, LED 03/04 ON



Enter Line No. that will be DID or Tie line. \_\_\_\_\_ Light LED Buttons 01~08 as noted in table below

To add a port range, enter XXX\*XXX (low port \* high port).

**Line Numbers:**

LED/Button	X	LED ON	LED OFF
09, 10, and 14-20		Not used at this time.	
08		DID/Tie line DTMF digits with * tones	DID/Tie line DTMF digits without * tones
07		DID/Tie line receives ANI and routes per Programs 71 and 72	DID/Tie line does not receives ANI (DID Program *09 and Tie Program 04)
06		Telephone LCD priority is ANI	Telephone LCD priority is DNIS
05		DID/Tie line routes per DNIS assignments: (Programs 71 and 72)	DID/Tie line routes per Non-DNIS assignments: (DID Program *09 and Tie Program 04)
04		DID/Tie no second dial tone	DID/Tie second dial tone
03		DID line Auto Camp-on busy	DID line no Camp-on busy
02		Wink Start for Tie or DID	Immediate Start for Tie or DID
01		Page and Voice Announce on incoming Tie line Page access for Tie/DID DNIS lines	No Page and Voice Announce on incoming Tie line No Page access for Tie/DID DNIS lines

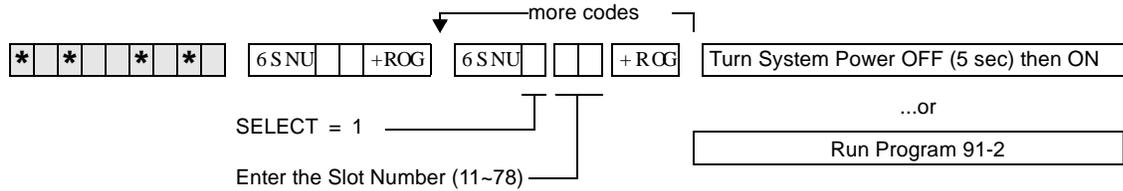


# Program 19 – Alternate Background Music Source Slot Assignment

**Processor Type:** DK40i, All RCTUs (not used for DK14. See Program 10-2, LED 10)

**Program Type:** System

**Initialized Default:** Slot 11

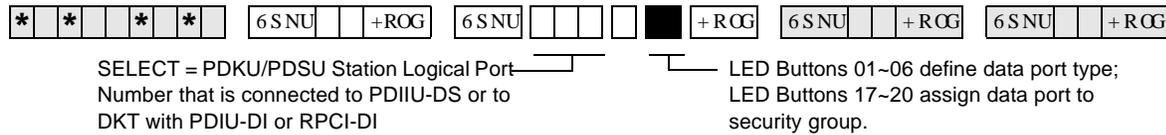


# Program 20 – Computer and Data Interface Unit Configuration

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Station

**Initialized Default:** LED 17 ON, all others OFF



Processor Type	Port Range
DK14	000-009
DK40i	000-027
RCTUA	000-031

Processor Type	Port Range
RCTUBA/BB	000-079
RCTUC/D	000-239
RCTUE/F	000-335

DK40i Base, PDKU, RDSU, KCDU Digital Port Number

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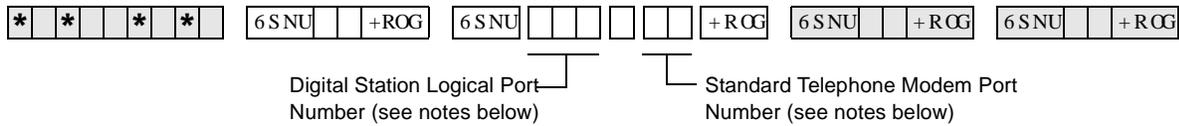
LED	X	LED ON	LED OFF
20		Data Security Group 4	Not Included
19		Data Security Group 2	Not Included
18		Data Security Group 3	Not Included
17		Data Security Group 1	Not Included
12~16	Not Used		
11		RPCI-DI DNIS Sent	RPCI-DI DNIS Not Sent
10		RPCI-DI Caller ID/ANI Sent	RPCI-DI Caller ID/ANI Not Sent
07~09	Not Used		
06		DTR Pulse with Data Release	No DTR Pulse
05		Auto Pause Behind PBX	No Auto Pause
04		PDIU-DS Connected	PDIU-DI/RPCI-DI Connected
03		PDIU-DS to Modem Connection	PDIU-DS to other type DCE or DTE
02		AT Commands and Result Codes	AT Commands Only
01		PDIU-DS or RPCI Connected	No PDIU-DS or RPCI Connected

# Program 21 – Modem Pool Port Assignments

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Station

**Initialized Default:** Blank



Processor Type	Port Range
DK14	008-009
DK40i	008-027
RCTUA	008-031

Processor Type	Port Range
RCTUBA/BB	008-079
RCTUC/D	008-239
RCTUE/F	008-335

	Logical Port No.		
Assignment 1			
Assignment 2			
Assignment 3			
Assignment 4			
Assignment 5			
Assignment 6			
Assignment 7			
Assignment 8			
Assignment 9			
Assignment 10			

Modem Port No.	

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# Program 22 – RPCI and DIU Station Hunting for Data Calls

**Processor Type:** DK14, DK40i, All RCTU's

**Program Type:** Station

**Initialized Default:** Does not assign "hunt-to" ports to any port

*	*		*	*		6 SNU			+ROG	6 SNU						+ROG	6 SNU			+ROG	6 SNU			+ROG
---	---	--	---	---	--	-------	--	--	------	-------	--	--	--	--	--	------	-------	--	--	------	-------	--	--	------

SELECT = Port Number (see legend below)

HUNT TO = (see legend below)

Enter the RPCI/DIU digital port number of the "hunt-from" station.

Enter the "hunt-to" RPCI/DIU digital port number.

Enter the port number(s) to which class of service must be assigned. To add a port range, enter XXX\*XXX (low port \* high port).

LED Button 01 deletes a digit from the "hunt-to" port.

Processor Type	Port Range
DK14	000-007
DK40i	000-027
RCTUA	000-031

Processor Type	Port Range
RCTUBA/BB	000-079
RCTUC/D	000-239
RCTUE/F	000-335

Hunt From Port	Hunt To Port						

# Program 23 – Built-in Auto Attendant (AA) Primary Announcement Assignments

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** System

**Initialized Default:** No ports assigned

\* \* \* \* \* 6 SNU +ROG 6 SNU + ROG 6 SNU + ROG

SELECT = 1-4 AUTO ATT 1 NO. = Port

Select the Auto Attendant device (digital announcer).

Enter the standard station logical port number to which the device will be assigned.

Processor Type	Port Range	Processor Type	Port Range
DK14	008-009	RCTUBA/BB	008-079
DK40i	008-027	RCTUC/D	008-239
RCTUA	008-031	RCTUE/F	008-335

Announcement Device	Port Number
1	
2	
3	
4	

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# Program 24 – Built-in AA Secondary Announcement Assignments

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** System

**Initialized Default:** No ports assigned

\* \* \* \* \* 6 SNU +ROG 6 SNU + ROG 6 SNU + ROG

SELECT = 1-4 AUTO ATT 2 NO. = Port

Select the Auto Attendant device (digital announcer).

Enter the standard station logical port number to which the device will be assigned.

**Note** See Program 23 legend for port ranges.

Announcement Device	Port Number
1	
2	
3	
4	

# Program 25-1 – Built-in AA Incoming Call Overflow Time

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** System

**Initialized Default:** 20 seconds before overflow

*	*		*	*		6	S	N	U			+	R	O	G	6	S	N	U					+	R	O	G	6	S	N	U					+	R	O	G	6	S	N	U					+	R	O	G
---	---	--	---	---	--	---	---	---	---	--	--	---	---	---	---	---	---	---	---	--	--	--	--	---	---	---	---	---	---	---	---	--	--	--	--	---	---	---	---	---	---	---	---	--	--	--	--	---	---	---	---

SELECT = 1 ——— AATT TIME = Seconds before overflowing

Enter the number of seconds, 12~24.





# Program 28 – DSS Console/Attendant Telephone Assignments

**Processor Type:** *DK40i, All RCTUs*

**Program Type:** *Station*

**Initialized Default:** *Assigns Console #1 to Attendant Telephone #1; Console #2 to Attendant Telephone #2; etc.*



SELECT = 1-8

DSS ATT = 1-8

Enter the DSS console number.

Enter the attendant digital or electronic telephone number.

Digital DSS consoles (DDSS) should be assigned to digital telephones, and electronic consoles (HDSS) should be assigned to electronic telephones.

Processor	DSS Consoles	HDSS Consoles
DK14	0	0
DK40i	1-3	1-3
RCTUA	1-3	1-3
RCTUBA/BB	1-4	1-4
RCTUC/D	1-8	1-8
RCTUE/F	1-8	1-8

DDSS PDKU/HDSS PEKU PCBs (Lowest to Highest)	DDSS/HDSS Console Number	Attendant DKT/EKT Number (1-8)
Low Slot Number:	1	
Slot Number:	2	
Slot Number:	3	
Slot Number:	4	
Slot Number:	5	
Slot Number:	6	
Slot Number:	7	
High Slot Number:	8	

# Program 29-1~8 – DSS Console and Number Button Assignments

**Processor Type:** DK40i, All RCTUs

**Program Type:** Station

**Initialized Default:** See "Program 29 - Initialized Default DSS Console Button Assignments" on [Page 41](#)



SELECT = DDSS/HDSS console number 1~8

DDSS/HDSS LED Button Group 1~3  
Each console has three groups of 20 LED buttons.

DKT LEDs 01~20  
Press the DKT LED that is in the same position as the console button being assigned. The LED lights and the LCD displays the console button's number.

CODE =  
Assign Speed Dial, trunk access, or DSS access to this button chosen. See code table below.

The 1 LJ KW7 UDQVIHU and 00&000 3DJ H buttons may be changed to 66, / LQH (CO) or 6 buttons, but they may not be reassigned to other button locations.

Initialized key assignments are shown following the Program 29 System Record Sheets.

## Code Table and Legend

Button Type	Code
All Call	489
Night Transfer 1	439
Night Transfer 2	440
Night Transfer 3	441
Night Transfer 4	442

Processor	Personal Speed Dial Bin Numbers	System Speed Dial Bin Numbers	CO Line Range	DSS Button Range
DK40i	* 10~ * 49	* 60~ * 99	001~012	#000~#027
RCTUA	* 10~ * 49	* 60~ * 99	001~016	#000~#031
RCTUBA/BB	* 10~ * 49	* 600~ * 699	001~048	#000~#079
RCTUC/D	* 10~ * 49	* 600~ * 699	001~144	#000~#239
RCTUE/F	* 100~ * 139	* 200~ * 999	001~200	#000~#335

### Console Number \_\_\_\_\_

Group Number 1	
Button/Code	Button/Code
10	20
09	19
08	18
07	17
06	16
05	15
04	14
03	13
02	12
01	11

Group Number 2	
Button/Code	Button/Code
10	20
09	19
08	18
07	17
06	16
05	15
04	14
03	13
02	12
01	11

Group Number 3	
Button/Code	Button/Code
10	20
09	19
08	18
07	17
06	16
05	15
04	14
03	13
02	12
01	11

### Program 29 - Initialized Default DSS Console Button Assignments

Group 1

DSS Button No.	DK40i	RCTUA	RCTUB RCTUC/D RCTUE/F
01	#000	#000	#000
02	#001	#001	#001
03	#002	#002	#002
04	#003	#003	#003
05	#004	#004	#004
06	#005	#005	#005
07	#006	#006	#006
08	#007	#007	#007
09	#008	#008	#008
10	#009	#009	#009
11	#010	#010	#010
12	#011	#011	#011
13	#012	#012	#012
14	#013	#013	#013
15	#014	#014	#014
16	#015	#015	#015
17	#016	#016	#016
18	#017	#017	#017
19	#018	#018	#018
20	#019	#019	#019

Group 2

DSS Button No	DK40i	RCTUA	RCTUB RCTUC/D RCTUE/F
01	#020	#020	#020
02	#021	#021	#021
03	#022	#022	#022
04	#023	#023	#023
05	#024	#024	#024
06	#025	#025	#025
07	#026	#026	#026
08	#027	#027	#027
09	* 10	#028	#028
10	* 11	#029	#029
11	* 12	#030	#030
12	* 13	#031	#031
13	* 14	*10	#032
14	* 15	*11	#033
15	* 16	*12	#034
16	* 17	*13	#035
17	* 18	*14	#036
18	* 19	*15	#037
19	* 20	*16	#038
20	* 21	*17	#039

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Group 3

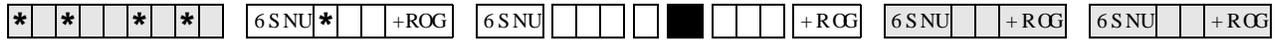
DSS Button No	DK40	RCTUA	RCTUB RCTUC/D RCTUE/F
01	* 22	*18	#040
02	* 23	*19	#041
03	* 24	*20	#042
04	* 25	*21	#043
05	* 26	*22	#044
06	* 27	*23	#045
07	* 28	*24	#046
08	* 29	*25	#047
09	* 30	*26	#048
10	* 31	*27	#049
11	* 32	*28	#050
12	* 33	*29	#051
13	* 34	*30	#052
14	* 35	*31	#053
15	* 36	*32	#054
16	* 37	*33	#055
17	* 38	*34	#056
18	* 39	*35	#057
19	AC (489)	AC (489)	AC (489)
20	NT 1 (439)	NT 1 (439)	NT 1 (439)

# Program \*29 – Add-on Modules Button Assignments

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Station

**Initialized Default:** See “Program 29 - Add-on Modules Button Assignments” on Page 3-74



Enter the station logical port of the telephone which will have buttons assigned to its attached Add-on.

Enter the Add-on Module which will have buttons assigned to it (0, 1, or 2). Enter 0 when removing ADMs.

CODE= See the Code Table below.

LED 01~20 Press the LED that is in the same position as the Add-on Module button being assigned.

Processor	Personal Speed Dial Bin Numbers	System Speed Dial Bin Numbers	CO Line Range	DSS Button Range
DK14	* 10- * 49	* 60- * 99	001-004	#000-#009
DK40i	* 10- * 49	* 60- * 99	001-008	#000-#027
RCTUA	* 10- * 49	* 60- * 99	001-016	#000-#031
RCTUBA/BB	* 10- * 49	* 600- * 699	001-048	#000-#079
RCTUC/D	* 10- * 49	* 600- * 699	001-144	#000-#239
RCTUE/F	* 100- * 139	* 200- * 999	001-200	#000-#335

Port \_\_\_\_\_

Add-on Module 1				Add-on Module 2			
Button	Code	Button	Code	Button	Code	Button	Code
10		20		10		20	
09		19		09		19	
08		18		08		18	
07		17		07		17	
06		16		06		16	
05		15		05		15	
04		14		04		14	
03		13		03		13	
02		12		02		12	
01		11		01		11	

Port \_\_\_\_\_

Add-on Module 1				Add-on Module 2			
Button	Code	Button	Code	Button	Code	Button	Code
10		20		10		20	
09		19		09		19	
08		18		08		18	
07		17		07		17	
06		16		06		16	
05		15		05		15	
04		14		04		14	
03		13		03		13	
02		12		02		12	
01		11		01		11	

Processor	ADMs	Number of System Speed Dial Numbers	Number of Personal Speed Dial Numbers
DK14	8	40	40
DK40i	12	40	40
RCTUA	12	40	40
RCTUBA/BB	40	100	40
RCTUC/D	120	100	40
RCTUE/F	200	800	40

### Button Assignments

Add-on Module 1 Button No.	DK14	DK40i	RCTUA	RCTUB RCTUC/D RCTUE/F
01	#000	#000	#000	#000
02	#001	#001	#001	#001
03	#002	#002	#002	#002
04	#003	#003	#003	#003
05	#004	#004	#004	#004
06	#005	#005	#005	#005
07	#006	#006	#006	#006
08	#007	#007	#007	#007
09	#008	#008	#008	#008
10	#009	#009	#009	#009
11	* 10	#010	#010	#010
12	* 11	#011	#011	#011
13	* 12	#012	#012	#012
14	* 13	#013	#013	#013
15	* 14	#014	#014	#014
16	* 15	#015	#015	#015
17	* 16	#016	#016	#016
18	* 17	#017	#017	#017
19	* 18	#018	#018	#018
20	* 19	#019	#019	#019

Add-on Module 2 Button No.	DK14	DK40i	RCTUA	RCTUB RCTUC/D RCTUE/F
01	* 20	#020	#020	#020
02	* 21	#021	#021	#021
03	* 22	#022	#022	#022
04	* 23	#023	#023	#023
05	* 24	#024	#024	#024
06	* 25	#025	#025	#025
07	* 26	#026	#026	#026
08	* 27	#027	#027	#027
09	* 28	* 10	#028	#028
10	* 29	* 11	#029	#029
11	* 30	* 12	#030	#030
12	* 31	* 13	#031	#031
13	* 32	* 14	* 10	#032
14	* 33	* 15	* 11	#033
15	* 34	* 16	* 12	#034
16	* 35	* 17	* 13	#035
17	* 36	* 18	* 14	#036
18	* 38	* 19	* 15	#037
19	* 39	* 20	* 16	#038
20	* 40	* 21	* 17	#039

System & Station

# Program 30 – Station Class of Service

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Station

**Initialized Default:** LEDs 01, 05 and 07 for all ports

\*  \*  \*  \*  6 SNU  +ROG  6 SNU     +ROG  6 SNU  +ROG  6 SNU  +ROG

SELECT = Station Logical Port Number(s)

Enter the port numbers to which class of service must be assigned. To add a port range, enter XXX\*XXX (low port \* high port).

Light LEDs for the port specified in the last step. All LEDs marked with an "X" in the table below should be lit.

Processor Type	Port Range	DISA Port
DK14	000-009	010
DK40i	000-027	035
RCTUA	000-031	039

Processor Type	Port Range	DISA Port
RCTUBA/BB	000-079	089
RCTUC/D	000-239	249
RCTUE/F	000-335	344

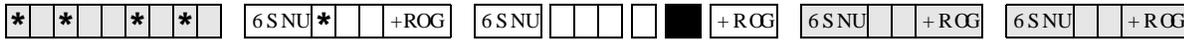
Feature	LED	Port									
SLT/ISDN Terminal "#" Dial	20										
Privacy Override	19										
Executive Override	18										
DND Override	17										
Change TR Traveling Class Code	16										
Change Verified Account Code	15										
Verified Account Codes	14										
	13										
SLT-Hook Flash Anti-Bounce Guard	12										
Dial Pulse - DTMF OFF	11										
Change DISA Security Code	10										
Change TR Override Code	09										
Forced Account Code	08										
OCA Automatic (originating OCA)	07										
ABR Access	06										
Speed Dial Allowed	05										
#5#30 Pickup AC Page Only (Release 3.2 and higher)	04										
Microphone Button on at Start of Call	03										
MIC Button Locked	02										
Speakerphone	01										

# Program \*30 – Telephone Group Page Assignments

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Station

**Initialized Default:** All LEDs OFF



Enter the station logical port which will be assigned to page a group or groups. To add a port range, enter XXX\*XXX (low port \* high port).

Press LED Buttons 01~08 to light LEDs for the port specified in the last step. In the table below, "X" all LED Buttons which should be lit.

Processor Type	Port Range	Number of Page Groups
DK14	000~007	4
DK40i	000~027	4
RCTUA	000~031	4

Processor Type	Port Range	Number of Page Groups
RCTUBA/BB	000~079	4
RCTUC/D	000~239	8
RCTUE/F	000~335	8

Feature	LED	Port															
Page Group H	08																
Page Group G	07																
Page Group F	06																
Page Group E	05																
Page Group D	04																
Page Group C	03																
Page Group B	02																
Page Group A	01																

Shaded groups apply to RCTUC/D and RCTUE/F only.

System & Station

# Program 31 – Station Class of Service

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Station

**Initialized Default:** LED 10 ON for Ports 000~119; LED 11~13 ON for all ports.

\*  \*  \*  \* 
 6 SNU  +ROG  6 SNU    +ROG  6 SNU  +ROG  6 SNU  +ROG

SELECT = Station Logical Port Number(s)  
 Enter the port numbers to which class of service must be assigned.

Light LED Buttons for the port specified in the last step. All LED Buttons marked with an "X" in the table below should be lit.

Processor Type	Port Range
DK14	000~009
DK40i	000~027
RCTUA	000~031

Processor Type	Port Range
RCTUBA/BB	000~079
RCTUC/D	000~239
RCTUE/F	000~335

Feature	LED	Port									
Toshiba Strategy/VP (B + Station No.)	20										
Toshiba Strategy/VP (B No Station)	19										
Executive & Privacy Override Blocking	18										
End/End Signal Rcv (VM)	17										
Receive VM ID Code	16										
Toshiba Strategy/VP Integration (A/D)	15										
Handset OCA	14										
Handset OCA Warning Tone	13										
Pooled Line Key - No Flash if No Ring	12										
Busy Override Tone - Continuous	11										
All Call Page Allowed - EKTs/DKTs	10										
VM (No Conference)	09										
VM Group 4 (does not apply to DK14)	08										
VM Group 3 (does not apply to DK14)	07										
VM Group 2	06										
VM Group 1	05										
VM to VM Call Blocking Called/Calling	04										
OCA Enabled (To Receive)	03										
Handsfree No Warning Tone	02										
Handsfree Disabled	01										

# Program \*31 – Group Pickup Assignments

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Station

**Initialized Default:** All LEDs OFF

\* \* \* \* \* \*
 6 SNU\* +ROG 6 SNU     +ROG 6 SNU  +ROG 6 SNU  +ROG

Station Logical Port Number

Enter the station logical port which will be assigned to a pickup group or groups. To add a port range, enter XXX\*XXX (low port \* high port).

Light LED Buttons for the port specified in the last step. In the table below, mark an "X" for all LED Buttons which should be lit.

Processor Type	Port Range	Pickup Groups
DK14	000-009	8
DK40i	000-027	16
RCTUA	000-031	20

Processor Type	Port Range	Pickup Groups
RCTUBA/BB	000-079	20
RCTUC/D	000-239	20
RCTUE/F	000-335	20

Pickup Group	LED	Port											
Pickup Group 20	20												
Pickup Group 19	19												
Pickup Group 18	18												
Pickup Group 17	17												
Pickup Group 16	16												
Pickup Group 15	15												
Pickup Group 14	14												
Pickup Group 13	13												
Pickup Group 12	12												
Pickup Group 11	11												
Pickup Group 10	10												
Pickup Group 9	09												
Pickup Group 8	08												
Pickup Group 7	07												
Pickup Group 6	06												
Pickup Group 5	05												
Pickup Group 4	04												
Pickup Group 6	03												
Pickup Group 2	02												
Pickup Group 1	01												

System & Station











# Program \*34 – Station Class Of Service

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Station

**Initialized Default:** LED 01 ON for all ports

\* \* \* \* 6 SNU \* +ROG 6 SNU +ROG 6 SNU +ROG 6 SNU +ROG

SELECT = Station Logical Port Number

Enter the port number(s) being defined.

To add a port range, enter XXX\*XXX  
(low port \* high port).

LED = Select LEDs to light for the port specified in the last step. Mark an "X" in the table below for all LEDs which should be lit.

Processor	Port Range
DK14	000-009
DK40i	000-027
RCTUA	000-031

Processor	Port Range
RCTUBA/BB	000-079
RCTUC/D	000-239
RCTUE/F	000-335

Feature	LED	Port											
	20												
	19												
	18												
	17												
	16												
	15												
	14												
	13												
	12												
	11												
	10												
	09												
	08												
	07												
	06												
	05												
	04												
	03												
	02												
Camp-on Tone to standard telephone, DKT, or EKT handset/Spkr	01												

System & Station

# Program 35 – Station Class of Service

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Station

**Initialized Default:** LED 01, 02, 04, 05, 16 are ON, all other LEDs OFF.

\* \* \* \* 6 SNU +ROG 6 SNU +ROG 6 SNU +ROG 6 SNU +ROG

SELECT = Station Logical Port Number

Enter the port number(s) being defined.

To add a port range, enter XXX\*XXX  
(low port \* high port).

LED = Select LEDs to light for the port specified in the last step. Mark an "X" in the table below for all LEDs which should be ON.

Processor	Port Range	Maximum LCD Phones With Personal Messages
DK14	000-009	8
DK40i	000-027	16
RCTUA	000-031	16

Processor	Port Range	Maximum LCD Phones With Personal Messages
RCTUBA/BB	000-079	32
RCTUC/D	000-239	96
RCTUE/F	000-335	96

Feature	LED	Port											
Busy Station Transfer	20												
Busy Station Ringing	19												
Automatic Hold	18												
DKT 2000 Telephone Continuous DTMF Tones OFF	17												
No CF/NA Handsfree or OCA	16												
Not used	15												
Toll Restriction After Answer	14												
Toll Restriction After Answer	13												
Not used	12-07												
Disable Hold Display Scrolling (Release 3.2 and higher)	06												
LCD Personal Message (10-19) Allowed	05												
Message Waiting (RCV)	04												
Message Waiting Lamp Standard. Telephones	03												
LCD Type/32-ON/12-OFF	02												
LCD Display	01												



**System & Station**

Program \*36 – System NT Button Lock Password Changing Station Assignment

# Program \*36 – System NT Button Lock Password Changing Station Assignment

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Station

**Initialized Default:** 000



Tenant Number 1-4 DATA = Station port designated as Night Transfer Lock Password Change Station for selected tenant.

Processor	Port Range
DK14	000-009
DK40i	000-027
RCTUA	000-031

Processor	Port Range
RCTUBA/BB	000-079
RCTUC/D	000-239
RCTUE/F	000-335

Tenant Number	NT Lock Station or Console Port
1	
2	
3	
4	







## Assignments for 2000-Series Digital Telephone Keystrips

Speed Dial <sup>1</sup>
Do Not Disturb
Line 7
Line 6
Line 5
Line 4
Line 3
Line 2
Line 1
[PDN]

Code 21 – 10-Button

All Call Voice Page (for DK40i only) ...or Line 9	Speed Dial <sup>1</sup>
Line 8	Do Not Disturb
Line 7	Line 17 <sup>2</sup>
Line 6	Line 16
Line 5	Line 15
Line 4	Line 14
Line 3	Line 13
Line 2	Line 12
Line 1	Line 11
[PDN]	Line 10

Code 31 (Default) – 20-Button (A)

Line 9	Speed Dial <sup>1</sup>
Line 8	Do Not Disturb
Line 7	SD 14
Line 6	SD 13
Line 5	SD 12
Line 4	SD 11
Line 3	SD 10
Line 2	Line 12
Line 1	Line 11
[PDN]	Line 10

DK424 and DK40i  
Code 32 – 20-Button (B)

SD14	Speed Dial <sup>1</sup>
SD13	Do Not Disturb
SD12	SD 22
SD11	SD 21
SD10	SD 20
Line 4	SD 19
Line 3	SD 18
Line 2	SD 17
Line 1	SD 16
[PDN]	SD 15

DK14  
Code 32 – 20-Button (B)

SD10	Flash
Line 8	Do Not Disturb
Line 7	Speed Dial
Line 6	Redial
Line 5	Speed Dial Pause
Line 4	SD 15
Line 3	SD 14
Line 2	SD 13
Line 1	SD 12
[PDN]	SD 11

DK424  
Code 33 – 20-Button (C)  
(Keystrip not provided, but can be assigned)

Line 9	Flash
Line 8	Do Not Disturb
Line 7	Speed Dial
Line 6	Redial
Line 5	Speed Dial Pause
Line 4	Line 12
Line 3	Line 11
Line 2	Line 10
Line 1	
[PDN]	

DK40i  
Code 33 – 20-Button (C)

## Assignments for 1000-Series Digital Telephone Keystrips

CO15	CO16	CO17	DND	SDS
CO10	CO11	CO12	CO13	CO14
CO5	CO6	CO7	CO8	CO9
[PDN]	CO1	CO2	CO3	CO4

Code 31 (Default) – 20-Button (A)

SD12	SD13	SD14	DND	SDS
CO10	CO11	CO12	SD10	SD11
CO5	CO6	CO7	CO8	CO9
[PDN]	CO1	CO2	CO3	CO4

Code 32 – 20-Button (B)

PAU	RDL	SDS	DND	FLASH
SD11	SD12	SD13	SD14	SD15
CO5	CO6	CO7	CO8	CO9
[PDN]	CO1	CO2	CO3	CO4

Code 33 – 20-Button (C)

### Assignments for Electronic Telephone Keystrips

MW/FL <sup>1</sup>
Do Not Disturb
CO7
CO6
CO5
CO4
CO3
CO2
CO1
[PDN]

Code 21 – 10-Button

CO9	MW/FL <sup>1</sup>
CO8	Do Not Disturb
CO7	CO17 <sup>2</sup>
CO6	CO16
CO5	CO15
CO4	CO14
CO3	CO13
CO2	CO12
CO1	CO11
[PDN]	CO10

Code 31 (Default) – 20-Button (A)

CO9	MW/FL <sup>1</sup>
CO8	Do Not Disturb
CO7	SD14
CO6	SD13
CO5	SD12
CO4	SD11
CO3	SD10
CO2	CO12
CO1	CO11
[PDN]	CO10

Code 32 – 20-Button (B)

SD10	MW/FL <sup>1</sup>
CO8	Do Not Disturb
CO7	SDS
CO6	RDL
CO5	PAU
CO4	SD15
CO3	SD14
CO2	SD13
CO1	SD12
[PDN]	SD11

Code 33 – 20-Button (C)

1. The 6 SHHG LDO button is the same as the 6 6 or 5 ( 3 buttons in previous Strata systems (Program 39, Code 97). Also, if changing PEKU PCBs (electronic telephone) to PDKU PCBs (digital telephone), or vice versa, always check that the 6 SHHG LDO or 0 : ) / button is set appropriately in Program 39.
2. This button is initialized as 6 with RCTUA since there are only 16 CO lines.

# System & Station

## Program 38 – Digital and Electronic Telephone Keystrip Type

<b>10</b> 30, 50, 70 90, 110, 130, 150, 170, 190	<b>9</b>	<b>20</b> 40, 60, 80 100, 120, 140, 160, 180, 200	<b>9</b>
<b>09</b> 29, 49, 69 89, 109, 129, 149, 169, 189	<b>8</b>	<b>19</b> 39, 59, 79 99, 119, 139, 159, 179, 199	<b>8</b>
<b>08</b> 28, 48, 68 88, 108, 128, 148, 168, 188	<b>7</b>	<b>18</b> 38, 58, 78 98, 118, 138, 158, 178, 198	<b>7</b>
<b>07</b> 27, 47, 67 87, 107, 127, 147, 167, 187	<b>6</b>	<b>17</b> 37, 57, 77 97, 117, 137, 157, 177, 197	<b>6</b>
<b>06</b> 26, 46, 66 86, 106, 126, 146, 166, 186	<b>5</b>	<b>16</b> 36, 56, 76 96, 116, 136, 156, 176, 196	<b>5</b>
<b>05</b> 25, 45, 65 85, 105, 125, 145, 165, 185	<b>4</b>	<b>15</b> 35, 55, 75 95, 115, 135, 155, 175, 195	<b>4</b>
<b>04</b> 24, 44, 64 84, 104, 124, 144, 164, 184	<b>3</b>	<b>14</b> 34, 54, 74 94, 114, 134, 154, 174, 194	<b>3</b>
<b>03</b> 23, 43, 63 83, 103, 123, 143, 163, 183	<b>2</b>	<b>13</b> 33, 53, 73 93, 113, 133, 153, 173, 193	<b>2</b>
<b>02</b> 22, 42, 62 82, 102, 122, 142, 162, 182	<b>1</b>	<b>12</b> 32, 52, 72 92, 112, 132, 152, 172, 192	<b>1</b>
<b>01</b> 21, 41, 61 81, 101, 121, 141, 161, 181	<b>0</b>	<b>11</b> 31, 51, 71 91, 111, 131, 151, 171, 191	<b>0</b>

16, 36, 56, 76 96, 116, 136, 156, 176, 196	17, 37, 57, 77 97, 117, 137, 157, 177, 197	18, 38, 58, 78 98, 118, 138, 158, 178, 198	19, 39, 59, 79 99, 119, 139, 159, 179, 199	20, 40, 60, 80 100, 120, 140, 160, 180, 200
11, 31, 51, 71 91, 111, 131, 151, 171, 191	12, 32, 52, 72 92, 112, 132, 152, 172, 192	13, 33, 53, 73 93, 113, 133, 153, 173, 193	14, 34, 54, 74 94, 114, 134, 154, 174, 194	15, 35, 55, 75 95, 115, 135, 155, 175, 195
06, 26, 46, 66 86, 106, 126, 146, 166, 186	07, 27, 47, 67 87, 107, 127, 147, 167, 187	08, 28, 48, 68 88, 108, 128, 148, 168, 188	09, 29, 49, 69 89, 109, 129, 149, 169, 189	10, 30, 50, 70 90, 110, 130, 150, 170, 190
01, 21, 41, 61 81, 101, 121, 141, 161, 181	02, 22, 42, 62 82, 102, 122, 142, 162, 182	03, 23, 43, 63 83, 103, 123, 143, 163, 183	04, 24, 44, 64 84, 104, 124, 144, 164, 184	05, 25, 45, 65 85, 105, 125, 145, 165, 185

1843



**1000-series digital telephone strip** - shows programming button/LED assignment locations. Shown as reference only - not available as an individual strip.

**LED Buttons and CO line numbers (01~20)**

**Last digit of EK port number for programs with a format like \*71, \*72, and \*73**

**CO line numbers (21~200)**

**2000-series digital telephone strip** - supplied with each *Strata DK Programming Manual* and each Documentation Package that ships with the system. Can also be used with 6000- and 6500-series electronic telephones.

**Note** Button numbers 01~200 on electronic telephones (6000, 6500 series, etc.) are in the same position as shown on the 2000-series digital telephone programming keystrip.



# Program 39 – Flexible Button Assignments

Processor Type: DK14, DK40i, All RCTUs

Program Type: Station

Initialized Default: See Program 38

\* \* \* \* 6 SNU +ROG 6 SNU +ROG 6 SNU +ROG 6 SNU +ROG

SELECT = Port Number

Code

Press LED Button to be defined.

Enter the port number(s) to which class of service must be assigned.  
To add a port range, enter XXX\*XXX (low port \* high port).

Port No.	10 20	LCD DIU	
Location:			
Button	Code	Button	Code
10		20	
09		19	
08		18	
07		17	
06		16	
05		15	
04		14	
03		13	
02		12	
01		11	

Port No.	10 20	LCD DIU	
Location:			
Button	Code	Button	Code
10		20	
09		19	
08		18	
07		17	
06		16	
05		15	
04		14	
03		13	
02		12	
01		11	

Port No.	10 20	LCD DIU	
Location:			
Button	Code	Button	Code
10		20	
09		19	
08		18	
07		17	
06		16	
05		15	
04		14	
03		13	
02		12	
01		11	

Port No.	10 20	LCD DIU	
Location:			
Button	Code	Button	Code
10		20	
09		19	
08		18	
07		17	
06		16	
05		15	
04		14	
03		13	
02		12	
01		11	

Port No.	10 20	LCD DIU	
Location:			
Button	Code	Button	Code
10		20	
09		19	
08		18	
07		17	
06		16	
05		15	
04		14	
03		13	
02		12	
01		11	

Port No.	10 20	LCD DIU	
Location:			
Button	Code	Button	Code
10		20	
09		19	
08		18	
07		17	
06		16	
05		15	
04		14	
03		13	
02		12	
01		11	

Port No.	10 20	LCD DIU	
Location:			
Button	Code	Button	Code
10		20	
09		19	
08		18	
07		17	
06		16	
05		15	
04		14	
03		13	
02		12	
01		11	

Port No.	10 20	LCD DIU	
Location:			
Button	Code	Button	Code
10		20	
09		19	
08		18	
07		17	
06		16	
05		15	
04		14	
03		13	
02		12	
01		11	

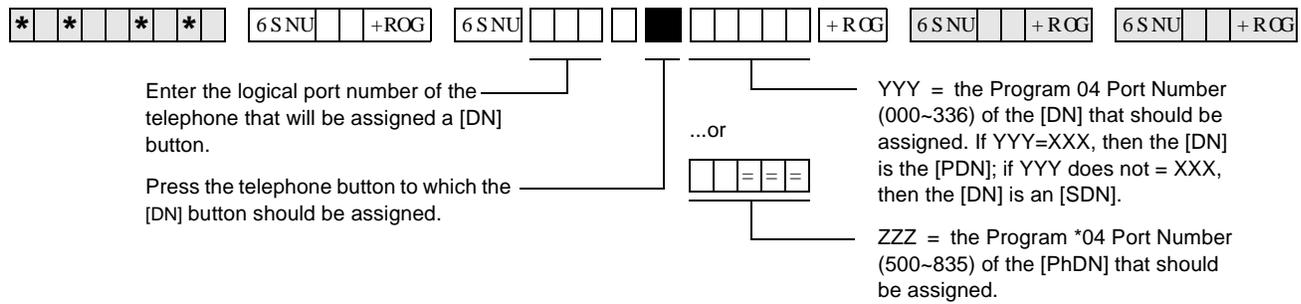
Port No.	10 20	LCD DIU	
Location:			
Button	Code	Button	Code
10		20	
09		19	
08		18	
07		17	
06		16	
05		15	
04		14	
03		13	
02		12	
01		11	

Port No.	10 20	LCD DIU	
Location:			
Button	Code	Button	Code
10		20	
09		19	
08		18	
07		17	
06		16	
05		15	
04		14	
03		13	
02		12	
01		11	

Port No.	10 20	LCD DIU	
Location:			
Button	Code	Button	Code
10		20	
09		19	
08		18	
07		17	
06		16	
05		15	
04		14	
03		13	
02		12	
01		11	

Port No.	10 20	LCD DIU	
Location:			
Button	Code	Button	Code
10		20	
09		19	
08		18	
07		17	
06		16	
05		15	
04		14	
03		13	
02		12	
01		11	

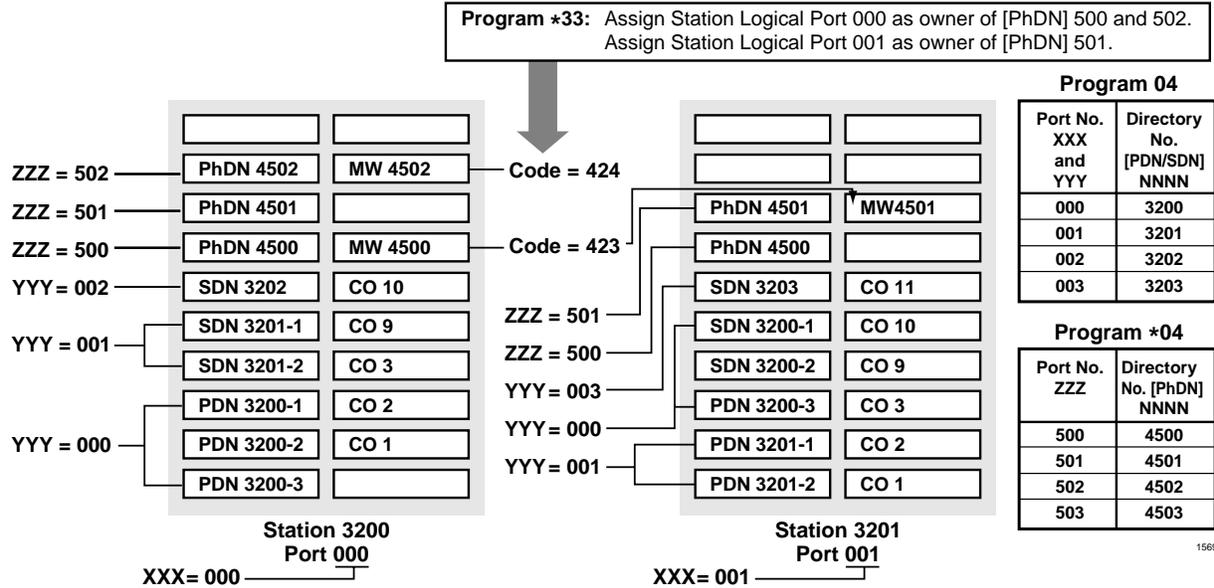
## Directory Number Button Assignments



Button Type	Button Labels	Code	Notes
Primary Directory Numbers [PDNs] 4-Maximum of same [PDN] per telephone	[PDN] NNNN - 1, Highest button [PDN] NNNN - 2, next highest [PDN] NNNN - 3, next highest [PDN] NNNN - 4, Lowest button	##YYY ##YYY ##YYY ##YYY	YYY = the Program 04 station logical port number of the [DN] that should appear as a [PDN]. YYY should be the same port number as the port number (XXX) of the telephone to which the [PDN] is assigned. NNNN is the actual [DN] assignment for Port YYY in Program 04.
Secondary Directory Numbers [SDNs] 16 total [PDNs] + [SDNs]; 4-Maximum of same [SDN] per telephone	[SDN] NNNN - 1, Highest button [SDN] NNNN - 2, next highest [SDN] NNNN - 3, next highest [SDN] NNNN - 4, Lowest button	##YYY ##YYY ##YYY ##YYY	YYY = the Program 04 station logical port number of the [DN] that should appear as a [SDN]. YYY should not be the same port number as the port number (XXX) of the telephone on which the [SDN] is assigned. NNNN is the actual DN assignment for Port YYY in Program 04.
Phantom Directory Numbers [PhDNs] 8-Maximum unique [PhDNs] 1-Maximum of same [PhDN] per telephone	[PhDN] NNNN	##ZZZ	ZZZ = the Program *04 Port ref. number of the [PhDN]. NNNN is the actual [DN] assignment for Port ZZZ in Program *04. Each [PhDN] must have an owner telephone assigned in Program *33. If an owner is not assigned, the [PhDN] can originate but cannot receive calls.
Phantom Directory Number Message Waiting button [PhDN] 4- maximum [PhDN/MW] per telephone	[PhDN/MW] - 1 Lowest [PhDN] [PhDN/MW] - 2 Next Highest [PhDN/MW] - 3 Next Highest [PhDN/MW] - 4 Highest [PhDN]	423 424 425 426	Message Waiting Key for [PhDNs] assigned to telephone. Telephone must be assigned as [PhDN] owner in Program *33 to allow it to be equipped with a [PhDN/MW] button.

System & Station

**Directory Number Programming Example**



**Table 1 Feature Button Codes for Digital, Electronic, and Strata AirLink Wireless Telephones**

Button Function	Button Labels	Code	Notes
Account Code	Account Code or ACCNT	450	Allows a Voluntary Account Code entry.
Alarm <sup>1</sup>	Alarm Reset or ALRM	477	Resets alarm condition system-wide.
Alert Signaling (see following pages) <sup>1</sup>			
All Call Voice Page	All Call Page or AC	489	Pages up to 120 idle electronic or digital telephones over speaker.
Automatic Busy Redial	Auto Busy Redial or ABR	470	Sets ABR of busy outgoing number.
Automatic Callback Busy	Auto Callback or ACB	494	Sets ACB for station recalled by busy line.
Background Music <sup>1</sup>	Tel Set Music or BGM	478	Turns BGM ON or OFF through station speaker.
Call Forward All Calls	Call Frwd All Calls or CFAC	487	All calls forward to selected station.
Call Forward A.C. Fixed	Call Frwd to: or CFF	486	Forwards all calls to pre-defined destination. See Program 36.
Call Forward Busy	Call Frwd Busy or CFB	459	Forwards calls to selected station if station is busy.
Call Forward Busy/No Answer	Call Frwd Busy/NAAns or CFB/NA	457	Forwards calls to selected station if station is busy or does not answer.
Call Forward External	Call Frwd External or CF-EXT	460	Forward calls externally.
Call Forward No Answer	Call Frwd No Answer or CFNA	458	Forwards calls to selected station if station does not answer.
Call Park <sup>2</sup>	Park in Orbit or PARK (R3)	464	Call Park Only.
Call Park LCD Display <sup>1</sup>	Park Orbit Display or CPD (R3)	465	CP Display Button and Mode 64 can be used interchangeably. Displays call parked via telephone LCD.
Call Park and Page	Call Park/Page or CP/PG (R3)	463	Parking and Paging Park Pickup.
Call Pickup (Directed)	Directed Pickup or PKUP	484	Picks up ringing or held intercom, trunk calls, and page.
Call Pickup Tenant 4 <sup>3</sup>	PKUP 4	435	Picks up tenant's ringing CO calls. See Program *15 for Tenant Group assignments.
Call Pickup Tenant 3 <sup>3</sup>	PKUP 3	436	
Call Pickup Tenant 2 <sup>3</sup>	PKUP 2	437	
Call Pickup Tenant 1 <sup>3</sup>	PKUP 1	438	
Call Pickup (Group) <sup>2</sup>	Group Pickup	480	Picks up a call to any group to which station is assigned in *31.
Unanswered Caller ID and/or ANI Stored Number Auto Dial <sup>1</sup>	Lost Call Auto Dial (R3) or LCAD	462	Will Auto Dial a Caller ID and/or Automatic Number Identification (ANI) telephone number that was stored in station Caller ID/ANI memory.

**Table 1 Feature Button Codes for Digital, Electronic, and Strata AirLink Wireless Telephones (continued)**

Button Function	Button Labels	Code	Notes
CO Line Appearance	Line 1~200 or CO 001~CO 200	001~200	CO line access of appearing calls.
Data <sup>1</sup>	Data Call or DATA	456	Used to place data call.
Data Release <sup>1</sup>	Data Release or DRLS	454	Releases data call.
Direct Station Selection	DSS	#000~#239	Assigns DSS hotline keys to port number.
Directory Numbers (see following pages)			
Do Not Disturb <sup>4</sup>	Do Not Disturb or DND	498	Prevents calls to station.
Door Lock 0 ~4 (DDCB/HDCB) <sup>1</sup>	Unlock Door 0 or DRLK 0 Unlock Door 1 or DRLK 1 Unlock Door 2 or DRLK 2 Unlock Door 3 or DRLK 3 Unlock Door 4 or DRLK 4	471 472 473 474 475	Momentarily unlocks door (3 or 6 seconds). See Program 77-1 and 77-2.
Handset Off-Hook Call Announce <sup>1</sup>	HS-OCA	468	Activates 2-way voice path to Off-Hook Call Announce caller. (R3)
ISDN Sub-address	Sub-address	467	Separates the called party's ISDN sub-address from the called party number. The digit performs this function on standard telephones.
ISDN Start	Start	469	Initiates DK to send dialed digits to the ISDN network when this button is pressed from a digital or electronic telephone. Program *63-2 invokes the same function when the Dial Timer expires. Also see Tone Button in this table.
LCD Message Select	LCD Msg Select or LCD M	481	Begins LCD message selection.
Message Waiting and Flash	Msg Wait, Flash or MW/FL	499	Provides message waiting LED for EKT and Flash Button.
Microphone Cutoff <sup>5</sup>	Microphn Cut-off or MCO	488	Sets microphone ON/OFF for incoming handsfree Directory Number [DN] calls.
Modem <sup>1</sup>	Modem or MODEM	455	Used to reserve modem in modem pool.
Night Transfer Tenant 1 <sup>3</sup>	Night Transfer1 or NT1	439	Sets Tenant CO line DAY/NIGHT ring mode.
Night Transfer Tenant 2 <sup>3</sup>	Night Transfer2 or NT2	440	
Night Transfer Tenant 3 <sup>3</sup>	Night Transfer3 or NT3	441	
Night Transfer Tenant 4 <sup>3</sup>	Night Transfer4 or NT4	442	
Night Transfer Lock Tenant 1	Night Lock1 or NT1 L1	431	Available with RCTUA3, RCTUBA3/RCTUBB3 or RCTUC/D3 Release 3 or above only. Used to lock system ringing mode: DAY, DAY2, NIGHT See Programs 74 and *36 for NT Lock Password assignments.
Night Transfer Lock Tenant 2	Night Lock2 or NT2 L2	432	
Night Transfer Lock Tenant 3	Night Lock3 or NT3 L3	433	
Night Transfer Lock Tenant 4	Night Lock4 or NT4 L4	434	
Pause <sup>1</sup>	Spd Dial Pause or PAU	495	Sets pause in Speed dial See Program 12-3.
Pause (Long) <sup>1</sup>	Spd Dial Lng Pause or PAU/L	493	Sets a 10-second pause in Speed Dial.
Pooled Line	Pooled Line Grp or PL	301~316	Multiple CO line may appear under one button.
Privacy	Privacy On Line or PRIV	453	Prevents Privacy Override (not Executive Override).
Privacy Release	Privacy Release or PRV RLS	479	Changes station Privacy mode to Non-private for CO lines.
Redial Last Number (# Button)	Redial or RDL	496	Redials the last number.
Release to Idle	Release Call or RLS	476	Releases current call and makes station idle.
Release and Answer	Release and Ans or RLS/ANS	466	Simulates On-hook/Off-hook operation to release an existing call and answer new incoming/ringing call.
Save Last Dialed Number	Save Last Number on SAVE	485	Saves last number dialed for future speed dial.
Speed Dial Select (* Button) <sup>6</sup>	Speed Dial or SDS	497	Begins speed dial selection.
Station Speed Dial Codes <sup>6</sup>	SD (All DK systems)		Reserves button for station speed dial. Station Speed Dial code ranges vary per processor:
		*10~*49	DK14, DK40i, RCTUA
		*10~*49	RCTUBA/BB, RCTUC/D
		*100~*139	RCTUE/F

**Table 1 Feature Button Codes for Digital, Electronic, and Strata AirLink Wireless Telephones (continued)**

Button Function	Button Labels	Code	Notes
System Speed Dial Codes <sup>6</sup>	SD		Speed dial number set by station port 000. System Speed Dial code ranges vary per processor:
		*60~ *99	DK14, DK40i, RCTUA
		*600~ *699	RCTUBA/BB, RCTUC/D
		*200~ *999	RCTUE/F
Tone <sup>1</sup>	Tone Dial Select or TONE	490	CO dial signals set to tone or pulse.

1. Unavailable to Strata AirLink handsets (RWIU/WWIS interface).
2. Picks up calls to telephones in any call pickup group to which the telephone is assigned in Program \*31.
3. See Program \*15 for Tenant Group assignments.
4. The Strata AirLink handset (RWIU/WWIS interface) displays DND, but no warning tone is enabled for Executive or Busy Override.
5. The Strata AirLink handset (RWIU/WWIS interface) has mute only.
6. Both wireless system handsets (RWIU and Base Station Interface Adapter) only have an internal memory Speed Dial capability.

The Strata AirLink “call” button is set using Program 39, key 01. It must be set as the PDN of the handset.

Strata AirLink handset buttons 1~6 when used with the FCN button are set using Program 39, keys 02~07 respectively.

### Alert Signal Button Assignments



Enter the logical port number of the telephone that will be assigned an OHUW6LJ QDD button.

YYY = the Program 39 code for the OHUW 6LJ QDD button that should be installed.

Press the telephone button to which OHUW 6LJ QDD should be assigned.

Station Number: \_\_\_\_\_

Alert Signal Button		Button Number (01~20)	Speed Dial Number	Alert Signal Button Partner Station Number
No.	Code			
1	427			
2	428			
3	429			
4	430			

Station Number: \_\_\_\_\_

Alert Signal Button		Button Number (01~20)	Speed Dial Number	Alert Signal Button Partner Station Number
No.	Code			
1	427			
2	428			
3	429			
4	430			

System & Station



# Program \*41 for DK424 – T1 Assignment Series (Part 1)

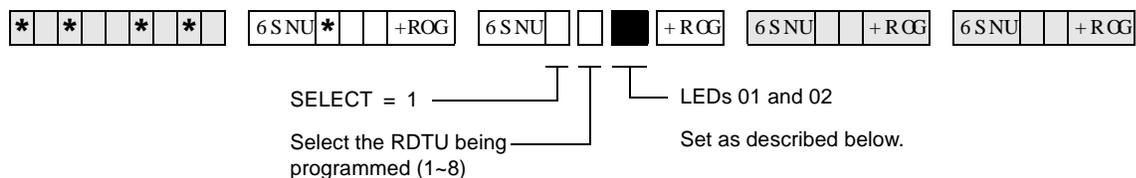
**Processor Type:** RCTUBA/BB, RCTUC/D and RCTUE/F

**Program Type:** System

**Initialized Default:** See each program

## Program \*41-1 – T1 Span (RDTU) Frame and Line Code Assignments

**Initialized Default:** LED 01 and LED 02 OFF for all T1 span lines



T1 Span	Extended Superframe LED 01 ON	Superframe LED 01 OFF	B8ZS LED 02 ON	AMI Code LED 02 OFF
1 RDTU				
2 RDTU				
3 RDTU				
4 RDTU				
5 RDTU				
6 RDTU				
7 RDTU				
8 RDTU				

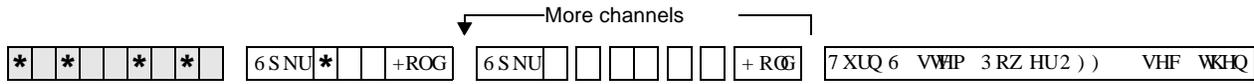
System & Station

**System & Station**

Program \*41 for DK424 – T1 Assignment Series (Part 1)

**Program \*41-2 – T1 Channel Assignments**

Initialized Default: 1 = Loop Start



SELECT = 2

Enter the RDTU being programmed (1-8).  
Enter the RDTU channel number (01-24) to be assigned a line type.

To add a port range, enter XXX\*XXX (low port \* high port).

Enter the line type to be assigned to the RDTU channel:

- 1 = Loop Start (initialized)
- 2 = Ground Start
- 3 = Tie (immediate)
- 4 = Tie (Wink)
- 5 = DID (immediate)
- 6 = DID (Wink)

See Programs 17 and 71 for other Tie/DID assignments;

See Program \*17 and Program \*09 for other DID assignments.

or...  
Run Program 91-2

Processor	Line Range
RCTUBA/BB	001-048
RCTUC/D	001-144
RCTUE/F	001-200

RDTU: \_\_\_\_\_ Slot: \_\_\_\_\_

RDTU Channel No.	Line Type
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	

RDTU: \_\_\_\_\_ Slot: \_\_\_\_\_

RDTU Channel No.	Line Type
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	

RDTU: \_\_\_\_\_ Slot: \_\_\_\_\_

RDTU Channel No.	Line Type
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	

### Program \*41-3 – T1 Span Transmit Level Pad Assignments

Initialized Default: 5 (-6dB)



SELECT = 3  
Enter the RDTU being programmed (1-8).  
Enter one of the following pad codes for the transmission of path:

RDTU No.	1	2	3	4	5	6	7	8
PAD Code								

- 1 = +6 dB pad
- 2 = +3 dB pad
- 3 = 0 dB pad
- 4 = -3 dB pad
- 5 = -6 dB pad (Initialized: PAD\_S = 5)
- 6 = -9 dB pad
- 7 = -12 dB pad
- 8 = -15 dB pad

### Program \*41-4 – T1 Span Receive Level Pad Assignments

Initialized Default: 4 (-3dB)



SELECT = 4  
Enter the RDTU being programmed (1-8).  
Enter one of the following pad codes for the transmission of path:

RDTU No.	1	2	3	4	5	6	7	8
PAD Code								

- 1 = +6 dB pad
- 2 = +3 dB pad
- 3 = 0 dB pad
- 4 = -3 dB pad
- 5 = -6 dB pad (Initialized: PAD\_R = 4)
- 6 = -9 dB pad
- 7 = -12 dB pad
- 8 = -15 dB pad

### Program \*42 for DK424 – T1 Assignment Series (Part 2)

See “Program \*42 – Clock Source” on Page 162.







# Program 58 – DK424 Attendant Console Series (Part 1)

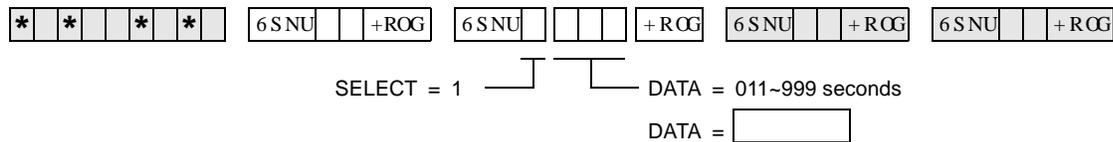
Processor Type: RCTUBA/BB, RCTUC/D and RCTUE/F

Program Type: Station

Initialized Default: see each program

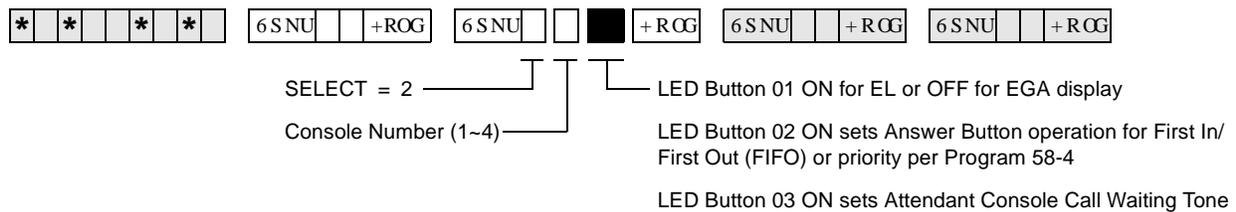
## Program 58-1 – Attendant Console Overflow Timer

Initialized Default: 32 seconds



## Program 58-2 – Attendant Console Display Type

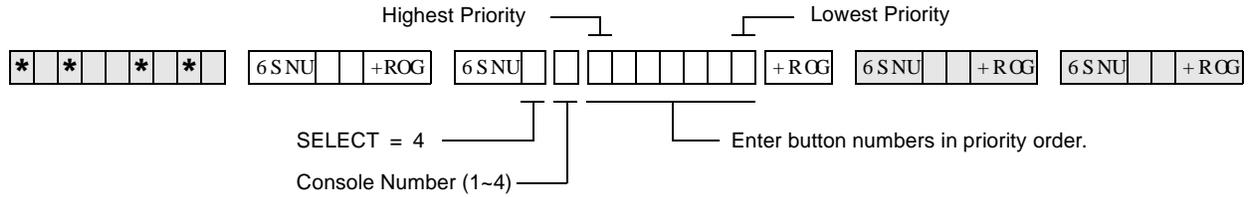
Initialized Default: All LEDs OFF



Attendant Console	Button 01 LED		Button 02 LED		Button 03 LED	
	ON (EL)	OFF (EGA)	ON (FIFO)	OFF (58-4)	ON (Call Waiting Tone)	OFF (No Call Waiting Tone)
1						
2						
3						
4						

### Program 58-4 – Attendant Console Answer Button Priority Assignments

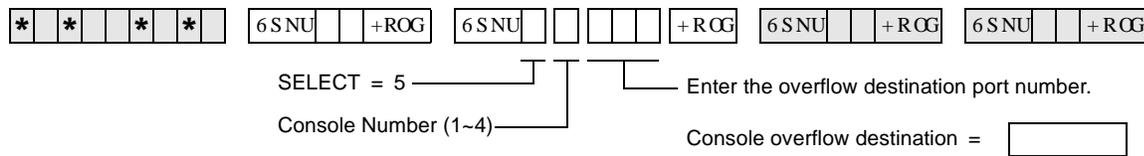
Initialized Default: 0, 1, 2, 3, 4, 5, 6



Button Name	Park-RC	Trans RC	Hold-RC	In-Trans	LINE	In Dial "O"	[PDN]
Button Number	0	1	2	3	4	5	6

### Program 58-5 – Attendant Console Overflow Destination Assignments

Initialized Default: Blank



Processor	[PDN] Port Range	Max. Consoles
RCTUBA/BB	000-079	2
RCTUC/D	000-239	4
RCTUE/F	000-335	4

# Program 59 – Attendant Console Flexible Button Codes

**Processor Type:** RCTUBA/BB, RCTUC/D, RCTUE/F

**Program Type:** Station

**Initialized Default:** Given throughout this section



Attendant Console (1-4)

1 = Left  
2 = Right

DATA = Button Code  
See legend.

Press LED Buttons 01-12 on Programming Telephone to enter data for corresponding console button.

**Codes (Left Buttons 1-12)**

Split (295)	Join Loop (239)	Sup. Loop (296)
In-Emrg (261)	In-DN (257)	In-Dial "0" (262)
In-Trans (258)	Trans-RC (260)	Hold-RC (259)
In-LG3 (243)	In-LG2 (242)	In-LG1 (241)

**Codes (Right Buttons 1-12)**

Conf (297)	Overflow (299)	Night (439)
Redial (496)	Spdial (497)	SD13 (*13)
BLF (298)	Out Dial (294)	SD12 (*12)
Attd Call (000)	SD10 (*10)	SD11 (*11)

## Console 1

**Left**

10	11	12
07	08	09
04	05	06
01	02	03

**Right**

10	11	12
07	08	09
04	05	06
01	02	03

## Console 2

**Left**

10	11	12
07	08	09
04	05	06
01	02	03

**Right**

10	11	12
07	08	09
04	05	06
01	02	03

## Console 3

**Left**

10	11	12
07	08	09
04	05	06
01	02	03

**Right**

10	11	12
07	08	09
04	05	06
01	02	03

## Console 4

**Left**

10	11	12
07	08	09
04	05	06
01	02	03

**Right**

10	11	12
07	08	09
04	05	06
01	02	03

**Table 2 Required PC Attendant Console Button Codes**

Button Function	Button Labels	Code	Notes
Conference	Conf	297	Starts conference calls.
Hold Recall	Hold-RC	259	Held calls recall on this button.
Incoming Dial "0"	In-Dial "0"	262	Dial "0" calls ring in on this button.
Incoming Directory Number	In-DN	257	Incoming calls to the console DN ring on this button. The console [DN] is the Prog 04 assignment of the Prog 04 console port number.
Incoming Ring Transfer	In-Trans	258	Receive call transfer.
Join-Loop	Join-Loop	293	Connects any held call to an existing call.
Out Dial	Out Dial	294	Switches ATTD consoles dial pad from digital to tone mode.
Redial Last Number ( Button)	Redial or RDL	496	Redials the last number.
Release to Idle	Release Call or RLS	476	Releases current call and makes station idle.
Speed Dial Select ( * Button)	Speed Dial or SDS	497	Begins speed dial selection.
Split Call	Split	295	Allows attendant to talk to either party separately on a conference call.
Supervised Loop	Sup Loop	296	Places call on attendant hold loop key so attendant can supervise call.
Transfer Recall	Trans-RC	260	No answer transferred calls, recall on this button.
Attendant Call	Attd Call	000	Can originate calls on this button. The Attendant Call LED is lit red any time the attendant talk path is connected.

**Table 3 Recommended PC Attendant Console Button Codes**

Button Function	Button Labels	Code	Notes
Display BLF	BLF	298	Displays BLF on CRT or EL display.
Incoming Emergency	In-Emrg	261	Indicates to all consoles an incoming emergency call.
Message Waiting/Flash	Msg Wait, Flash or MW/FL	499	Indicates a message from station or VM device to Attendant. Disconnects and recalls dial tone on CO line; accesses Centrex or PBX features; enters pause or flash during speed dial programming.
Overflow	Overflow	299	Places console in the call overflow mode.
Park Recall	Park-RC	263	Parked calls recall on this button.

**Table 4 Incoming Line Group Button Assignments**

In-LG1~241	In-LG5~245	In-LG9~249	In-LG13~253
In-LG2~242	In-LG6~246	In-LG10~250	In-LG14~254
In-LG3~243	In-LG7~247	In-LG11~251	In-LG15~255
In-LG4~244	In-LG8~248	In-LG12~252	In-LG16~256

**Table 5 Optional Attendant Console Button Codes**

Button Function	Button Labels	Code	Notes
Alarm	Alarm Reset or ALRM	477	Resets alarm condition system-wide.
Call Pickup Tenant 1~Call Pickup Tenant 4	PKUP 1~PKUP 4	435~438	Picks up tenant 3's ringing CO calls.
CO Line Appearance	Line 1~48 Line 1~144 Line 1~200	001~048 001~144 001~200	CO line access of appearing calls. CO line ranges vary according to processor: RCTUBA/BB RCTUC/D RCTUE/F
Door Lock 0~Door Lock 4 (DDCB/HDCB)	DRLK 0~4	471~475	Momentarily unlocks door (3 or 6 seconds). The PC attendant activates these options when these buttons are assigned.
Emergency Page Access	Emrg Page	292	Activates ALL CALL Paging to telephone speakers (not EXTR Page). Overrides any existing ALL CALL page.
Night Transfer Tenant 1~Tenant 4	Night Transfer1 or NT1~Night Transfer4 or NT4	439~442	Sets Tenant 1 CO line DAY/NIGHT ring mode.
Privacy	Privacy On Line or PRIV	453	Prevents Privacy Override (not Executive Override).
Privacy Release	Privacy Release or PRV RLS	479	Changes station Privacy mode to Non-private for CO lines.
Pause	Spd Dial Pause or PAU	495	Sets pause in Speed dial (see Program 12-3.)
Pause (Long)	Spd Dial Lng Pause or PAU/L	493	Sets a 10-second pause in Speed Dial.
Unanswered Caller ID and/or ANI Stored Number Auto Dial	Lost Call Auto Dial or LCAD	462	Will Auto Dial a Caller ID and/or Automatic Number Identification (ANI) telephone number that was stored in station Caller ID/ANI memory.

**System & Station***Program 59 – Attendant Console Flexible Button Codes***Table 6 Additional Feature Button Codes**

Button Function	Button Labels	Code	Notes
Account Code	Account Code or ACCNT	450	Allows a Voluntary Account Code to be entered.
Alert Signaling	Alert 1~4	427~430	Console can alert another station but another station cannot alert the console. See Program 39 for more information.
All Call Voice Page	All Call Page or AC	489	Pages up to 120 idle electronic or digital telephones over speaker.
Automatic Busy Redial	Auto Busy Redial or ABR	470	Sets ABR of busy outgoing number.
Automatic Callback Busy	Auto Callback or ACB	494	Sets ACB for station recalled by busy line.
Call Forward All Calls	Call Frwd All Calls or CFAC	487	All calls forward to selected station.
Call Forward A.C. Fixed	Call Frwd to: or CFF	486	Forwards all calls to pre-defined destination. See Program 36.
Call Forward Busy	Call Frwd Busy or CFB	459	Forwards calls to selected station if station is busy.
Call Forward Busy/ No Answer	Call Frwd Busy/NAAns or CFB/NA	457	Forwards calls to selected station if station is busy or does not answer.
Call Forward External	Call Frwd External or CF-EXT	460	Forward calls externally.
Call Forward No Answer	Call Frwd No Answer or CFNA	458	Forwards calls to selected station if station does not answer.
Call Park	Park in Orbit or PARK	464	Call Park Only.
Call Park LCD Display	Park Orbit Display or CPD	465	CP Display Button and Mode 64 can be used interchangeably. Displays call parked via telephone LCD.
Call Park and Page	Call Park/Page or CP/PG	463	Parking and Paging Park Pickup.
Call Pickup (Directed)	Directed Pickup or PKUP	484	Picks up ringing or held intercom, trunk calls, and page.
Call Pickup (Group)4	Group Pickup	480	Picks up a call to any group to which station is assigned in *31.
Do Not Disturb	Do Not Disturb or DND	498	Prevents calls to station.
ISDN Sub-address	Sub-address	467	Separates the called party's ISDN sub-address from the called party number. The digit performs this function on standard telephones.
ISDN Start	Start	469	Initiates DK to send dialed digits to the ISDN network when this button is pressed from a digital or electronic telephone. Program *63-2 invokes the same function when the Dial Timer expires. Also see Tone Button in this table.
LCD Message Select	LCD Msg Select or LCD M	481	Begins LCD message selection.

**Table 6 Additional Feature Button Codes (continued)**

Button Function	Button Labels	Code	Notes
Night Transfer Lock Tenant 1~Night Transfer Lock Tenant 4	Night Lock1 or NT1 L1~Night Lock4 or NT4 L4	431~434	Used to lock system ringing mode: DAY, DAY2, NIGHT See Programs 74 and *36 for NT Lock Password assignments.
Release and Answer	Release and Ans and RLS/ANS	466	Simulates On-hook/Off-hook operation to release an existing call and answer new incoming/ringing call.
Save Last Dialed Number	Save Last Number or SAVE	485	Saves last number dialed for future speed dial.
Station Speed Dial Codes	SD	*10~*49  *10~*49  *100~*139	Reserves button for station speed dial for the following processors:  RCTUBA/BB  RCTUC/D  RCTUE/F
System Speed Dial Codes	SD	*600~*699  *600~*699  *200~*999	Speed dial number is set by station port 000.  RCTUBA/BB  RCTUC/D  RCTUE/F
Tone	Tone Dial Select or TONE	490	CO dial signals set to tone or pulse.  For ISDN applications, after the user presses the Tone Dial Select button, any digits dialed after it will be sent using DTMF tones.

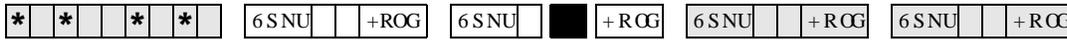
System & Station

# Program 60-1 – SMDR Data Output Options

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** System

**Initialized Default:** LED 01 OFF



SELECT = 1 Light the LED Buttons that are marked with an X in the table below.

LED/Button	X	LED ON	LED OFF
20			
19			
18			
17			
16			
15			
14			
13			
12			
11			
10			
09			
08			
07			
06			
05			
04			
03			
02			
01		Caller ID, ANI and DNIS data will be sent from the system SMDR port	Account code data will be sent from the system SMDR port

# Program 60-2~7 – SMDR Output/Account Code Digit Length

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** System

**Initialized Default:** Item 2: 10 seconds  
 Item 3: SMDR output is enabled for answered incoming/outgoing calls  
 Item 4: a 6-digit length is assigned to all Forced/Voluntary Account Codes  
 Item 7: 21 digits



SELECT = 2-7 (Item) ——— See table below.

Make a selection from the table below.

Item	Description	Data
2	<b>SMDR Threshold Time</b> 0 = 1 second 1 = 10 seconds	Time
3	<b>SMDR Output when a call is completed</b> 0 = Outgoing Only 1 = Incoming and Outgoing	SMDR COR
4	<b>Forced/Voluntary Account Code Digit Length 04-15</b> (See Program 69 for Verified Account Codes) Digits are verified per Program 30, Button/LED 14 and Program 69	Account
5	<b>SMDR Printout Options</b> <b>Toll Dial:</b> 0 = All Calls (item 3, printout outgoing call only is still available) 1 = Dial "0" calls only 2 = Dial "1" calls only 3 = Dial "00" calls only 4 = Dial "1", "0" calls only 5 = Dial "1", "00" calls only	Toll Dial Data
6	<b>DISA Security Code</b> 01-15 digits, may be changed from station, per Program 30 If a security code is not programmed, outgoing trunk access via DISA will not require a security code when dialing.	Data Button 01 = blank Button 02 is wild card (any digit from 1-9)
7	<b>Credit Card Call Digit Length, 01-30 digits</b> (see Program 43)	Credit Number of digits required when "0" is the first digit dialed; if this number of digits is not dialed, the system will disconnect the call after 20 seconds. "0" is counted as a digit. Example: 0 + 714 + 583 - 3700 = 11 digits; 11 should be programmed as a minimum in this case.

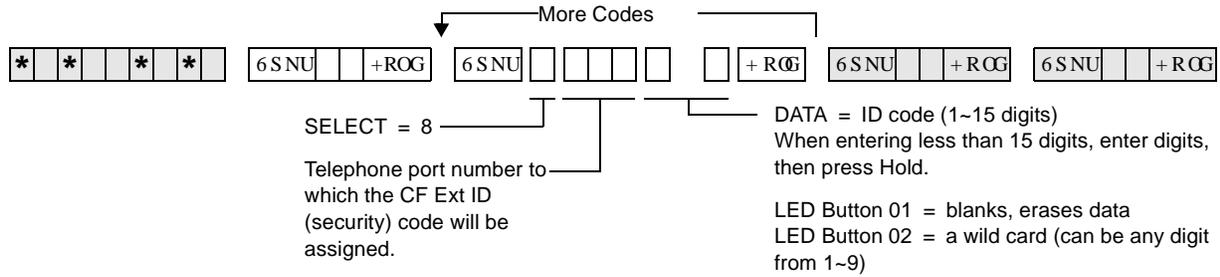
System & Station

# Program 60-8 – Call Forward External (Remote Change, Security) ID Code

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** System

**Initialized Default:** No digits



Processor	[PDN] Port Range
DK14	000-009
DK40i	000-027
RCTUA	000-031

Processor	[PDN] Port Range
RCTUBA/BB	000-079
RCTUC/D	000-239
RCTUE/F	000-335

Telephone Port Number	CF/EKT ID Code (1-15 digits)

Telephone Port Number	CF/EKT ID Code (1-15 digits)

Telephone Port Number	CF/EKT ID Code (1-15 digits)





# Program 71 DNIS

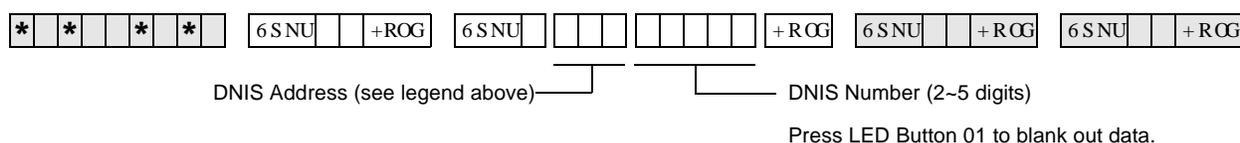
Processor Type: DK40i, all RCTUs  
 Program Type: System  
 Initialized Default: All Programs blank

## DNIS Addresses

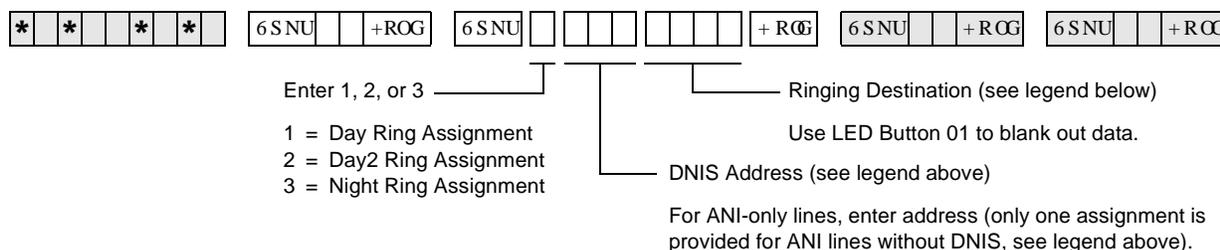
Processor	DNIS Address	ANI Address
DK14	NA	NA
DK40i	000~199	199
RCTUA	000~199	199

Processor	DNIS Address	ANI Address
RCTUBA/BB	000~349	349
RCTUC/D	000~499	499
RCTUE/F	000~499	499

## Program 71-0: DID / Tie / DNIS / ANI Lines



## Program 71-1~3: DNIS Number and ANI Line Routing Assignments

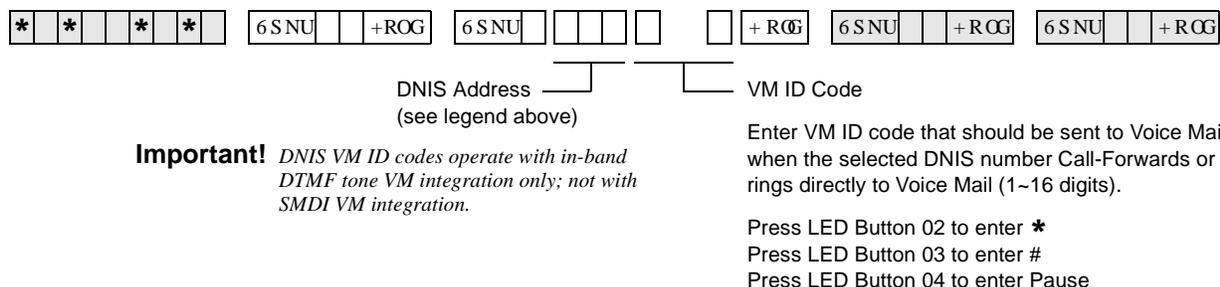


## DNIS/ANI Routing Destinations

Route to Ports	[PDN]	[PhDN]	DH [DN]	ACD	IMDU/RMDS	Network Table
DK40i	0000~0027	0500~0527	0900~0915	NA	#031	#300~#399
RCTUA	0000~0031	0500~0531	0900~0915	NA	#035	#300~#399
RCTUBA/BB	0000~0079	0500~0589	0900~0915	#090~#097	#085	#300~#499
RCTUC/D	0000~0239	0500~0739	0900~0915	#250~#265	#245	#300~#599
RCTUE/F	0000~0335	0500~0835	0900~0915	#345~#360	#340	#400~#699

All Processors: External Page = #039  
 All processors except RCTUE/F: Night Ring Over External Page = #271  
 Night Ring Over External Page for RCTUE/F = #366

## Program 71-4: DNIS and ANI Only Lines Voice Mail ID Assignments



System & Station





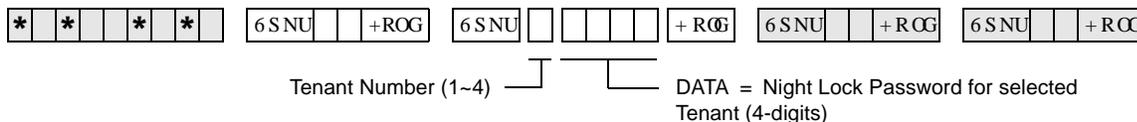


# Program 74 – System NT Button Lock Password

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** System

**Initialized Default:** Port 000 for all tenants



Tenant Number	NT Lock Password (4 Digits)			
1				
2				
3				
4				

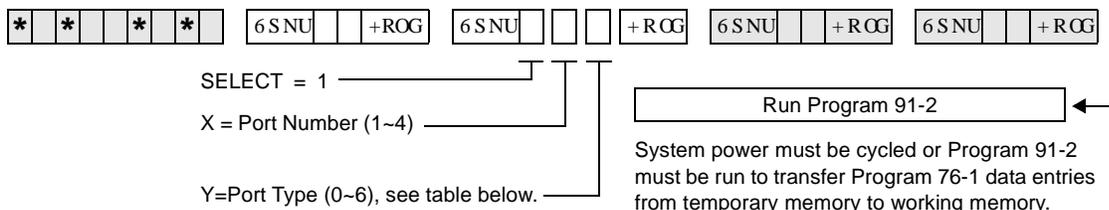
System & Station

# Program 76-1(X-Y) WSIU, TSIU and RSIU / RSIS / RMDS Transmission Rates

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** System

**Initialized Default:** Port 1 (Type 1), Ports 2~4 (Type 0)



Port Number	Port Type (0~6)
1	
2	
3	
4	

**System & Station**

Program 76-2 (X-Z) – WSIU, TSIU and RSIU / RSIS / RMDS Transmission Rates

# Program 76-2 (X-Z) – WSIU, TSIU and RSIU / RSIS / RMDS Transmission Rates

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** System

**Initialized Default:** All ports 2400 bps



SELECT = 2 ———┐  
                  ├───┐  
                  └───┘ Z=Transmission Rate (1~4):  
X=Port (1~4) ———┘  
                  ├───┐  
                  └───┘  
                  ├───┐  
                  └───┘  
                  ├───┐  
                  └───┘

1 = 9600 bps  
2 = 4800 bps  
3 = 2400 bps  
4 = 1200 bps

Port Number (x)	Data Transmission Rate (z)
1	
2	
3	
4	
	Total
	<b>Note</b> Total must be ≤ 9600 bps.

# Program 77-1 – Peripheral Options (Door Phones)

## RSIU / RSIS / RMDS, PIOUS/PIOUS / IMDU, PEPU

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** System

**Initialized Default:** All LEDs are OFF

\* \* \* \* \* 6 SNU +ROG 6 SNU +ROG 6 SNU +ROG 6 SNU +ROG

SELECT = 1  Light the LED Buttons that are marked with an X in the table below.

LED/ Button	X	LED ON	LED OFF
20		Door Lock Time/6 seconds	Door Lock Time/3 seconds
19		Port 028/DDCB 4 or HDCB 4 (DK424)	Port 028/Telephone (DK424)
18		Port 020/DDCB 3 or HDCB 3 (DK40i/DK424)	Port 020/Telephone (DK40i/DK424)
17		Port 012/DDCB 2 or HDCB 2 (DK424) Port 012/DDCB 2 or HDCB 2 (DK40i Expansion Unit) Port 003/DDCB 2 (DK14)	Port 012/Telephone (DK40i Expansion Unit, DK424). Port 003/Telephone (DK14).
16		Port 004/DDCB 1 or HDCB 1 (DK424) Port 004/DDCB 1 (DK40i) Port 002/DDCB 1 (DK14)	Port 004/Telephone (DK40i, DK424). Port 002/Telephone (DK14).
15		RMDS Modem Protocol CCIT (2400 bps)	RMDS Modem Protocol Bell212A (1200 bps)
14		RMDS/IMDU Modem (DN #19)/Enabled	RMDS/IMDU Modem (DN #19)/Disabled
10		Enable DKAdmin/Backup ACK/NAC Protocol	Disable DKAdmin/Backup ACK/NAC Protocol
08		Door Phone Ring on External Page in Night Mode	No Ring on External Page in Night Mode
07		Door Lock Relay Enabled	External Page Relay Enabled
06		NT Relay with NT1 and NT2 Button and Ringing CO Line	NT Relay Steady with NT1 Button (DK424 only)
05		MOH Relay Enabled	NT Relay Enabled
04		—	—
03		—	—
02		LED 02 applies to DK14/DK40i only. LED 01 has priority.	External Page on Base Unit Relay Enabled
01		LED 01 applies to DK14/DK40i only. MOH on Base Unit Relay Enabled	NT on Base Unit Relay Enabled

# Program 77-2 – Door Phone Busy Signal/Door Lock Assignments

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Station

**Initialized Default:** All LEDs are OFF



SELECT = 2  Light the LED Buttons that are marked with an X in the table below.

LED/ Button	X	LED ON	LED OFF
20		One Door Phone Ring	Five Door Phone Rings
19		—	—
18		—	—
17		—	—
16		DDCB4/HDCB4 B-jack is Lock Control #4 (DK424)	B is connected to Door Phone 4B
15		Door phone 4C Busy Out	No Busy Signal
14		Door phone 4B Busy Out	No Busy Signal
13		Door phone 4A Busy Out	No Busy Signal
12		DDCB4/HDCB3 B-jack is Lock Control #3 (DK40i/ DK424)	B is connected to Door Phone 3B
11		Door phone 3C Busy Out	No Busy Signal
10		Door phone 3B Busy Out	No Busy Signal
09		Door phone 3A Busy Out	No Busy Signal
08		DDCB4/HDCB2 B-jack is Lock Control #2 (DK424) DDCB2 B-jack is Lock Control #2 (DK40i, DK14)	B is connected to Door Phone 2B
07		Door phone 2C Busy Out	No Busy Signal
06		Door phone 2B Busy Out	No Busy Signal
05		Door phone 2A Busy Out	No Busy Signal
04		DDCB4/HDCB1 B-jack is Lock Control #1 (DK424) DDCB1 B-jack is Lock Control #2 (DK40i, DK14)	B is connected to Door Phone 1B
03		Door phone 1C Busy Out	No Busy Signal
02		Door phone 1B Busy Out	No Busy Signal
01		Door phone 1A Busy Out	No Busy Signal

# Program 77-3 – Night Ringing Over PIOUS External Page Zones

**Processor Type:** DK40i, All RCTUs

**Program Type:** System

**Initialized Default:** Zones 1~4 assigned to tenant 1

\* \* \* \* \*    6 SNU    +ROG    6 SNU       +ROG    6 SNU    +ROG    6 SNU    +ROG

SELECT = 3  
 Enter a PIOUS external  
 page zone relay (1~4).

Enter the tenant (1~4) to be assigned with  
 the zone entered in the preceding step.

These assignments apply to ground and  
 loop start lines only; they do not apply to DID  
 and Tie lines.

Tenant	Zone 1	Zone 2	Zone 3	Zone 4
Tenant 1 CO Lines				
Tenant 2 CO Lines				
Tenant 3 CO Lines				
Tenant 4 CO Lines				

System & Station

# Program 77-4 – RSIU Open Architecture Interface (OAI) Data Output Assignments

**Processor Type:** All RCTUs (Release 3.2 and above)

**Program Type:** System

**Initialized Default:** All LEDs are OFF



SELECT = 4 Light the LED Buttons that are marked with an X in the table below.

LED/ Button	X	LED ON	LED OFF
20			
19			
18			
17			
16			
15			
14			
13			
12			
11			
10			
09			
08			
07			
06			
05			
04			
03			
02		DNIS Number will be sent from OAI port	DNIS Number will not be sent from OAI port
01		Caller ID/ANI will be sent from OAI port	Caller ID/ANI will not be sent from OAI port





# Program \*79 – Door Phone to [DN] Flashing Assignments

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Station

**Initialized Default:** No [DNs] assigned to ring for any door phone

\* \* \* \* 6 SNU \* +ROG [ ] [ ] [ ] [ ] 6 SNU +ROG 6 SNU +ROG

Door Box Number (1-4) ————  
 Door Box Circuit Number (1-3) ————

Enter a [DN] Port Reference  
 (Port Number of the [DN] that should flash when the door phone button is pressed.)

[DN] = [PDN] or [PhDN] port (see Legend below)

Processor	[PDN] Port Range	[PhDN] Port Range
DK14	000-009	500-509
DK40i	000-027	500-527
RCTUA	000-031	500-531

Processor	[PDN] Port Range	[PhDN] Port Range
RCTUBA/BB	000-079	500-579
RCTUC/D	000-239	500-739
RCTUE/F	000-335	500-835

Door Phone Number/Location	Door Phone Box Number	Door Box Circuit Number	[DN] Port Reference Number
1	1	1	
2		2	
3		3	
4	2	1	
5		2	
6		3	
7	3	1	
8		2	
9		3	
10	4	1	
11		2	
12		3	

System & Station



# Program \*80 – Call Forward Station Ring Assignment

**Processor Type:** All RCTUs with Release 3.2 and above

**Program Type:** Station

**Initialized Default:** LED 01, 04, and 07 ON for all lines

\* \* \* \* \* 6 SNU \* +ROG 6 SNU + ROG 6 SNU + ROG 6 SNU + ROG

SELECT = CO Line Number

LED buttons = ringing assignment in which calls should Call Forward

To specify a CO line range, enter XXX\*XXX (low line \* high line).

Processor	CO Line Range
DK14	NA
DK40i	NA
RCTUA	001-016

Processor	CO Line Range
RCTUBA/BB	001-048
RCTUC/D	001-144
RCTUE/F	001-200

System Ring Mode	Call Forward Station Ring Assignment	LED	CO Lines															
Night	Delay 2 (89)	09																
	Delay 1 (88)	08																
	Immediate (87)	07																
Day 2	Delay 2 (86)	06																
	Delay 1 (85)	05																
	Immediate (84)	04																
Day	Delay 2 (83)	03																
	Delay 1 (82)	02																
	Immediate (81)	01																

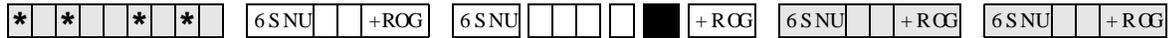
System & Station

# Programs 81~89 – Ground/Loop Start/CO Line Station Ringing

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** System

**Initialized Default:** All LEDs ON for Port 000 (81), Port 001 (87), all other LEDs OFF



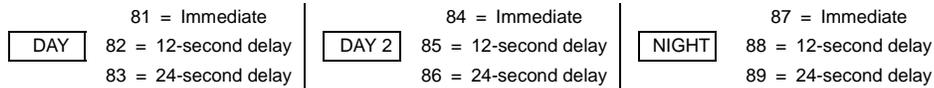
SELECT = 1-9  
(for type of ringing)

SELECT = Station or DH port  
(see legend below)

LED Buttons = CO line assigned to ring selected station port or DH Group number(s).

Press 6 FURD to advance or 3 DJ H to go back.

Selected trunks ring selected station ports as follows:



Processor	Station Port Range	DH Port	CO Line
DK14	000-009	900-909	001-004
DK40i	000-027	900-915	001-012
RCTUA	000-031	900-915	001-016

Processor	Station Port Range	DH Port	CO Line
RCTUBA/BB	000-079	900-915	001-048
RCTUC/D	000-239	900-915	001-144
RCTUE/F	000-335	900-915	001-200

CO Line	LED	Station or DH Port											
	20												
	19												
	18												
	17												
	16												
	15												
	14												
	13												
	12												
	11												
	10												
	09												
	08												
	07												
	06												
	05												
	04												
	03												
	02												
	01												



# Program 93 – CO Line Identification

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** System

**Initialized Default:** Blank



SELECT = 1

LED Button for CO line being named.

To advance the line range, press Scroll.  
Press Page for a lower range.

CO Line Identification

Enter the CO line identification. (See next page for data entry procedures.)

Processor	CO Line Range
DK14	001~004
DK40i	001~012
RCTUA	001~016

Processor	CO Line Range
RCTUBA/BB	001~048
RCTUC/D	001~144
RCTUE/F	001~200

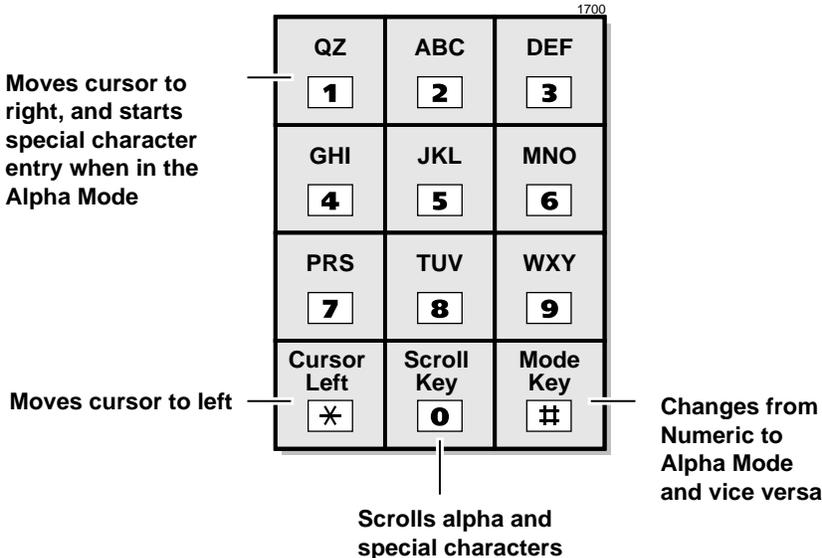
LED	Line	CO Line Identification (16 Characters Max. Enter One per Rectangle)															
20																	
19																	
18																	
17																	
16																	
15																	
14																	
13																	
12																	
11																	
10																	
09																	
08																	
07																	
06																	
05																	
04																	
03																	
02																	
01																	

## Numeric Mode

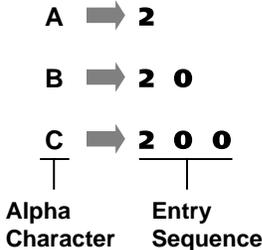
**0~9** are treated as numerals.

Dial pad starts in numeric mode. Press **#** to switch to alpha mode.

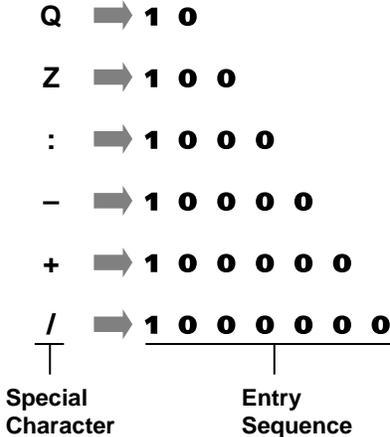
**Alpha Mode**



**Alpha Entry (Example):**

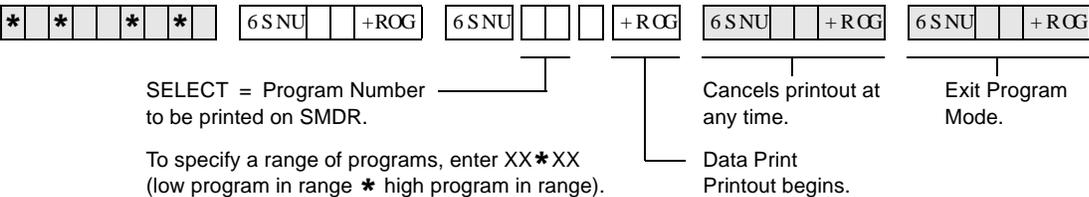


**Special Character Entry:**



**Program 97 – Printing Program Data through SMDR**

**Processor Type:** DK14, DK40i, All RCTUs  
**Program Type:** System  
**Initialized Default:** Prints out customer database



**System & Station**

*Program 93 – CO Line Identification*

# Toll Restriction

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3

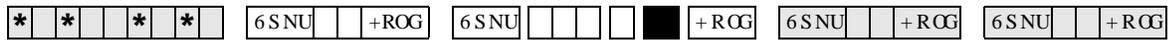
Toll Restriction

# Program 40 – Station CO Line Access

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Toll Restriction

**Initialized Default:** All LEDs ON for all CO lines (all stations can access all lines)



SELECT = Station Logical Port Numbers

To add a port range, enter XXX\*XXX (low port \* high port).

Press 6FUR00 to advance or 3DJ H to go back.

LED Buttons = CO Lines

Light LEDs for the port(s) that are allowed access.

To turn all CO LEDs ON or OFF, after the port number and is entered, press 9R0▲ (all LEDs ON) or 9R0▼ (all LEDs OFF).

To check a particular CO line, after the port number is entered, press 0RGH and enter the CO line number, then use the button to display and advance.

Processor	CO Line Range	[PDN] Port Range	DISA Port
DK14	001~004	000~009	10
DK40i	001~012	000~027	035
RCTUA	001~016	000~031	039

Processor	CO Line Range	[PDN] Port Range	DISA Port
RCTUBA/BB	001~048	000~079	089
RCTUC/D	001~144	000~239	249
RCTUE/F	001~200	000~335	344

CO Line	LED	Port											
	20												
	19												
	18												
	17												
	16												
	15												
	14												
	13												
	12												
	11												
	10												
	09												
	08												
	07												
	06												
	05												
	04												
	03												
	02												
	01												

# Program 41 – Station Outgoing Call Restriction

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Toll Restriction

**Initialized Default:** All LEDs OFF for all CO lines (all stations can access all lines)



SELECT = Station Logical Port Numbers

To add a port range, enter XXX\*XXX (low port \* high port).

Press 6FURD to advance or 3DJH to go back.

After programming, press:

- 9RO▲ to turn all LEDs ON
- 9RO▼ to turn all LEDs OFF
- 0RGH + CO line number, then to display and advance

LED Buttons = CO Lines  
Light LEDs for the port(s) that are allowed access.

Processor	CO Line Range	[PDN] Port Range	DISA Port
DK14	001~004	000~009	010
DK40i	001~012	000~027	035
RCTUA	001~016	000~031	039

Processor	CO Line Range	[PDN] Port Range	DISA Port
RCTUBA/BB	001~048	000~079	089
RCTUC/D	001~144	000~239	249
RCTUE/F	001~200	000~335	344

CO Line	LED	Port											
	20												
	19												
	18												
	17												
	16												
	15												
	14												
	13												
	12												
	11												
	10												
	09												
	08												
	07												
	06												
	05												
	04												
	03												
	02												
	01												

Toll Restriction

# Program 42-0 – CO Line to PBX/Centrex Connection & Access Codes

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Toll Restriction

**Initialized Default:** All LEDs OFF for all CO lines. Assigns no access codes to PBX groups.



SELECT = 0

Specify CO Lines by setting LED Buttons as defined by the table below.

Press 6 FURD to advance or 3 DJH to go back.

After programming, press:

- 9 RO▲ to turn all LEDs ON
- 9 RO▼ to turn all LEDs OFF
- Mode and CO line number, then # to display and advance

Processor	CO Line Range
DK14	001~004
DK40i	001~012
RCTUA	001~016

Processor	CO Line Range
RCTUBA/BB	001~048
RCTUC/D	001~144
RCTUE/F	001~200

Button LED	Line (Trunk)	Set Button LEDs	
		Centrex/PBX Connection (LED ON)	Normal (LED OFF)
20			
19			
18			
17			
16			
15			
14			
13			
12			
11			
10			
09			
08			
07			
06			
05			
04			
03			
02			
01			

# Program 42-1~8 – PBX/Centrex Access Codes

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Toll Restriction

**Initialized Default:** Assigns no access codes to PBX groups



SELECT = 1~8 PBX Access Code Group  
Enter the PBX Group Number 1~8 that needs an access code assigned.

ACCESS CODE = Enter a 2-digit access code for the group, as defined by the table below.

- If access code is single digit, enter the first digit and press LED Button 01 as second digit.
- Press LED Button 01 to delete digit.
- Press LED Button 02 for Wild Card digit (any digit, 0~9). For example, pressing + LED Button 02 allows 80~89.

PBX/Centrex Access Code Number	PBX/Centrex Outgoing CO Line Access Code(s)	
	1st Digit	2nd Digit
1		
2		
3		
4		
5		
6		
7		
8		

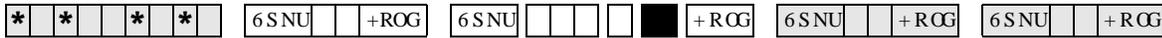
Toll Restriction

# Program 43 – 0 + Credit Card Dialing Option

**Processor Type:** DK14, DK40i, All RCTUs

**Processor Type:** Toll Restriction

**Initialized Default:** All LEDs OFF



SELECT = Station Logical Port Numbers

LED Buttons = CO lines  
Assigned to allow dial 0+ calls with selected stations.

Press 6FUR00 to advance or 3DJH to go back.

After programming, press:

- 9RO▲ to turn all LEDs ON
- 9RO▼ to turn all LEDs OFF
- 0RGH + CO line number, then to display and advance

Processor	CO Line Range	[PDN] Port Range
DK14	001-004	000-009
DK40i	001-012	000-027
RCTUA	001-016	000-031

Processor	CO Line Range	[PDN] Port Range
RCTUBA/BB	001-048	000-079
RCTUC/D	001-144	000-239
RCTUE/F	001-200	000-335

CO Line	LED	Port											
	20												
	19												
	18												
	17												
	16												
	15												
	14												
	13												
	12												
	11												
	10												
	09												
	08												
	07												
	06												
	05												
	04												
	03												
	02												
	01												

# Program 44-1~8 – Toll Restriction/Traveling Class Override Codes

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Toll Restriction

**Initialized Default:** All Classes Blank (no code)



SELECT = Toll Restriction Class 1~8      DATA = Toll Restriction Code for Selected Class (1~4 digits)

Processor	Toll Restriction Class
DK14	1~4
DK40i	1~4
RCTUA	1~4

Processor	Toll Restriction Class
RCTUBA/BB	1~4
RCTUC/D	1~8
RCTUE/F	1~8

Toll Restriction Class SELECT =	DATA = (1~4 Digit Code)
1	
2	
3	
4	
5	
6	
7	
8	

Toll Restriction

# Program 44-91~93 – Emergency Bypass of Forced/Verified Account Codes

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Toll Restriction

**Initialized Default:** Code 91 = 911, Codes 92 and 93 are blank



SELECT = 91-93 to set Emergency Number 1~3  
 DATA = Emergency Telephone Number (1~4 digits)  
 To enter blanks, press LED Button 01.

Emergency Number (1~3) SELECT =	DATA = (1~4 Digit Telephone Number)
91	911 (default)
92	
93	

If CO lines are behind PBX or Centrex, program the PBX/Centrex outside CO line access code. Example: "9". A pause is automatically inserted following the first 9.

See Programs \*45-2 to assign the CO line and access code for behind PBX/Centrex operation.

Also, if the system CO lines are behind Centrex/PBX, the Centrex/PBX CO line access codes must be programmed in front of the emergency telephone number. Example: If the Centrex/PBX access code is "9", then enter 9911 in Program 44-91.

# Program 45-1 – LCR/Toll Restriction Dial Plan

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Toll Restriction

**Initialized Default:** Assigns Dial Plan 7 to the system (current North American Numbering Plan)

\* \* \* \* \* 6 SNU +ROG 6 SNU +ROG 6 SNU +ROG 6 SNU +ROG

SELECT = 1 DATA = Plan 1-9  
Enter Codes 1-9 to indicate the dial plan for the system.

X	Plan	Toll Restriction/LCR Dial Plans
	9	(101XXXX)+1+NXX+NXX/NXX
	8	(101YXXX)+1+NXX+NXX/NXX
	7	(10XXX)+1+NXX+NXX/NXX
	6	For UK only.
	5	0+ (0+ and universal (Codes 5 and 4) are not used in USA.)
	4	Universal (0+ and universal (Codes 5 and 4) are not used in USA.)
	3	(10XXX)+1+AC+NXX/NXX
	2	(10XXX)+1+AC+NXX/1+NNX
	1	(10XXX)+AC+NXX/1+NNX

Where:

- In NXX and NNX,
  - X = 0-9
  - N = 2-9
- NXX = Office code (interchangeable with area and office codes; second digit can be 0-9)
- NNX = Office code (not interchangeable; second digit cannot be 1 or 0)
- AC = Area Code
- 1+ NNX = 1 may be dialed before office codes
- 10XXX = old 5-digit Carrier Access Codes
- 101YXXX/101XXXX = new 7-digit Carrier Access Codes
- Y = 0, 5 or 6

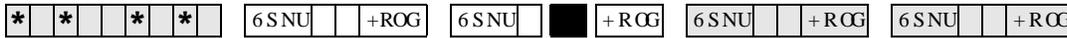
Toll Restriction

# Program 45-2 – Toll Restriction Disable

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Toll Restriction

**Initialized Default:** All LEDs OFF for all CO lines (all lines apply Toll Restriction)



SELECT = 2

Press 6FURD to advance or 3DJH to go back.

After programming, press:

- 9RO▲ to turn all LEDs ON
- 9RO▼ to turn all LEDs OFF

LEDs/Buttons

Specify CO lines by setting LED Buttons as defined by the table below. All LEDs with an X should be lit when finished.

ON = Disable Toll Restriction

Processor	CO Line Range
DK14	001~004
DK40i	001~012
RCTUA	001~016

Processor	CO Line Range
RCTUBA/BB	001~048
RCTUC/D	001~144
RCTUE/F	001~200

LED	CO Line	X
20		
19		
18		
17		
16		
15		
14		
13		
12		
11		
10		
09		
08		
07		
06		
05		
04		
03		
02		
01		

LED	CO Line	X
20		
19		
18		
17		
16		
15		
14		
13		
12		
11		
10		
09		
08		
07		
06		
05		
04		
03		
02		
01		

LED	CO Line	X
20		
19		
18		
17		
16		
15		
14		
13		
12		
11		
10		
09		
08		
07		
06		
05		
04		
03		
02		
01		

# Program 45-3~6 – Special Common Carrier Numbers and Authorization Code Digit Length

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Toll Restriction

**Initialized Default:** Assigns blank data to Items 3 and 5 and "00" data to Items 4 and 6.



**SELECT =** Item 3~6  
Enter the Item number  
3~6 from the table below.

**DATA =**  
First five digits of the SPCC number, or digit length  
specified in the table below.

When editing:

- Press  to move cursor.
- Press LED Button 01 to delete or leave a blank.
- Press LED Button 02 to allow all digits to work.

# Program 45-8~9 – Toll Restriction Override Code

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Toll Restriction

**Initialized Default:** Leaves code assignments blank



**SELECT =** Item 8 or 9  
Enter 8 to select Code 1.  
Enter 9 to select Code 2.

**DATA =** Code  
Enter 1 to 4-digit code from the table below.  
Press LED Button 01 to delete or leave a blank.  
Press LED Button 02 to allow all digits to work.

SELECT =	Description	DATA = (1 to 4 Digits)
8 (Code 1)		
9 (Code 2)		

Toll Restriction

**Toll Restriction**

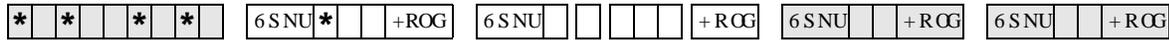
Program \*45-1 (1~4) – Toll Restriction for Office Codes

# Program \*45-1 (1~4) – Toll Restriction for Office Codes

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Toll Restriction

**Initialized Default:** Assigns 976 to first office code - blank for other three office codes



SELECT = 1 — DATA = Office Code (3 digits)  
 SELECT = 1~4 — Press LED Button 01 to delete a digit.

SELECT =	DATA = Office Code
1	976
2	
3	
4	

# Program \*45-2 (1~6) – LCR/Toll Restriction Bypass for Special Numbers that Do Not Begin with \*/#

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Toll Restriction

**Initialized Default:** All data blank



SELECT = 2 — DATA = 1~5 Digit Code  
 (that are not subject to toll restriction)  
 SELECT = 1~6 —

First Digit: 0~9 only  
 Non-first Digits: 0~9, \*,

When editing:

- Press LED Button 01 to delete or leave a blank.
- Press LED Button 02 to allow all digits to work.

SELECT =	DATA = 1~5 Digits
1	
2	
3	
4	
5	
6	

# Program \*45-3 (1~9) – LCR/Toll Restriction Bypass For Special Numbers that Begin with \*/#

**Processor Type:** DK14, DK40i, All RCTUs (Release 4.15 applies to DK424 RCTUs only)

**Program Type:** Toll Restriction

**Initialized Default:** All data blank



SELECT = 3  
SELECT = 1~9

OPTION = 0~4 (Release 4.15)  
0 = Code is not valid in ISDN; is valid in analog line  
1 = Privacy Change for ISDN; valid analog line  
2 = Privacy Change for ISDN; not valid analog line  
3 = No Privacy Change for ISDN; valid analog line  
4 = No Privacy Change for ISDN; analog line not valid

OPTION = 0~3  
0 = No Toll Restriction after Special Code  
1 = Toll Restriction after Special Code  
2 = Special Code Restricted  
3 = LCR + Toll Restriction after Special Code (R3.2)

DATA = Digit String (1~3 digits)  
Do not enter \* or .

When editing:

- Press LED Button 01 to end the digit string.
- Press LED Button 02 to allow all digits to work.

SELECT =	DATA =	OPTION =	OPTION =
1			
2			
3			
4			
5			
6			
7			
8			
9			

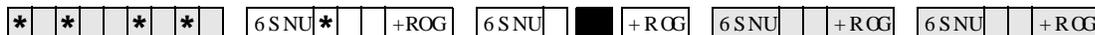
Toll Restriction

# Program \*45-4 – Special Code Dialing Sequence with LCR

**Processor Type:** DK424, all RCTUs (Release 4.15 and higher)

**Program Type:** Toll Restriction and LCR

**Initialized Default:** All LEDs OFF



SELECT = 4  
Light the LED Buttons that are marked with an X in the table below.

Button/LED	X	LED ON	LED OFF
20~3		Not used.	Not used.
02		Sends the digits from Program *45-3 before the Programs 55-1 Modified Digits Table (MDT) digits.	Sends the Programs 55-1 Modified Digits Table (MDT) digits before the digits from Program *45-3.
01		Inserts a pause into the dialing sequence.	Does not insert a pause into the dialing sequence.

**Toll Restriction**

Program 46-2~4 – Toll Restriction Allowed/Denied Area Codes by Class

# Program 46-2~4 – Toll Restriction Allowed/Denied Area Codes by Class

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Toll Restriction

**Initialized Default:** Includes all area codes in all classes

\* \* \* \* \* 6 SNU +ROG 6 SNU + ROG 6 SNU + ROG 6 SNU + ROG

SELECT = Toll Restriction Class  
(see Legend below)  
Enter: 2, 3, 4#  
2 = add to memory  
3 = Delete from memory  
4# = Display allowed codes in memory (press # to scroll)

DATA = Area Codes  
Enter or display area codes.  
To add a range, enter XXX\*XXX (low area code \* high area code).  
Several ranges or individual area codes may be entered by separating them with the # button.

Processor	Toll Restriction Class
DK14	1-4
DK40i	1-4
RCTUA	1-4

Processor	Toll Restriction Class
RCTUBA/BB	1-4
RCTUC/D	1-8
RCTUE/F	1-8

Class:  (Check one) Allowed  Denied

DATA = Area Codes						

Class:  (Check one) Allowed  Denied

DATA = Area Codes						

- Tables with deny box checked do not represent memory. All area codes in memory are allowed.
- International calls may be allowed/denied by entering 011 as the area code. See Program 47 for International Call Restriction by Country Codes.

# Program 46-6~8 – Toll Restriction Allowed/Denied Local Office Codes Assigned by Class

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Toll Restriction

**Initialized Default:** Includes all office codes in all classes

\* \* \* \* 6 SNU +ROG 6 SNU + ROG 6 SNU + ROG 6 SNU + ROG

SELECT = Toll Restriction Class  
(see Legend below)

Enter: 6, 7, 8#  
 6 = add to memory  
 7 = Delete from memory  
 8# = Display allowed codes in memory (press # to scroll)

DATA = Office Codes  
Enter or display office codes.

To add a range, enter XXX\*XXX (low office code \* high office code).

Several ranges or individual office codes may be entered by separating them with the # button.

Processor	Toll Restriction Class
DK14	1-4
DK40i	1-4
RCTUA	1-4

Processor	Toll Restriction Class
RCTUBA/BB	1-4
RCTUC/D	1-8
RCTUE/F	1-8

Class:  (Check one) Allowed  Denied

DATA = Office Codes						

Class:  (Check one) Allowed  Denied

DATA = Office Codes						

- Tables with deny box checked do not represent memory. All office codes in memory are allowed.
- International calls may be allowed/denied by entering 011 as the area code. See Program 47 for International Call Restriction by Country Codes.

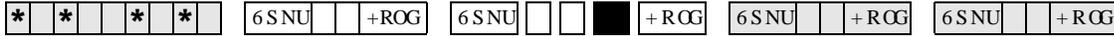
Toll Restriction

# Programs 46-10~80 – Toll Restriction Class Parameters

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Toll Restriction

**Initialized Default:** All LEDs OFF



Select Class from Legend below. \_\_\_\_\_ Turn LEDs 01, 02, 03, or 04 ON to select restriction option.

Processor	Toll Restriction Class
DK14	1-4
DK40i	1-4
RCTUA	1-4

Processor	Toll Restriction Class
RCTUBA/BB	1-4
RCTUC/D	1-8
RCTUE/F	1-8

Class Number	Button 01 LED		Button 02 LED		Button 03 LED		Button 04 LED	
	ON	OFF	ON	OFF	ON	OFF	ON	OFF
	Dial 0 Restricted	Dial 0 Allowed	Dial 01 Restricted	Dial 01 Allowed	A/C+555 or 1+A/C+555 Allowed for all A/Cs	555 Allowed or Denied per A/C Restriction Table	Restrict Numbers that contain * or # within the first 4 digits	Allow Numbers that contain * or # within the first 4 digits
1								
2								
3								
4								
5								
6								
7								
8								

# Programs 46-11~46-81 – Toll Restriction Class (1~8) Parameters

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Toll Restriction

**Initialized Default:** Leaves all LEDs OFF

\*  \*  \*  \* 
 6 SNU  +ROG  6 SNU   +ROG  6 SNU  +ROG  6 SNU  +ROG

Select Class from Legend below.

Light LED Buttons as required to assign Table to Class.

Processor	Toll Restriction Class	Exception Table
DK14	1~4	8
DK40i	1~4	8
RCTUA	1~4	8

Processor	Toll Restriction Class	Exception Table
RCTUBA/BB	1~4	8
RCTUC/D	1~8	16
RCTUE/F	1~8	16

LED	X	LED ON	LED OFF
20~17		Not Used	
16		Table 16 Area/Office Exception	Not Selected
15		Table 15 Area/Office Exception	Not Selected
14		Table 14 Area/Office Exception	Not Selected
13		Table 13 Area/Office Exception	Not Selected
12		Table 12 Area/Office Exception	Not Selected
11		Table 11 Area/Office Exception	Not Selected
10		Table 10 Area/Office Exception	Not Selected
9		Table 09 Area/Office Exception	Not Selected
8		Table 08 Area/Office Exception	Not Selected
7		Table 07 Area/Office Exception	Not Selected
6		Table 06 Area/Office Exception	Not Selected
5		Table 05 Area/Office Exception	Not Selected
4		Table 04 Area/Office Exception	Not Selected
3		Table 03 Area/Office Exception	Not Selected
2		Table 02 Area/Office Exception	Not Selected
1		Table 01 Area/Office Exception	Not Selected

Toll Restriction





**Toll Restriction**

*Program 48 – Station Toll Restriction Classification*

# Least Cost Routing

# 4

## Program 50-1 – LCR Parameters

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Least Cost Routing

**Initialized Default:** All LEDs OFF

\* \* \* \* 6 SNU +ROG 6 SNU +ROG 6 SNU +ROG 6 SNU +ROG

SELECT = 1  Press LED Buttons for each LCR parameter

LED	ON		OFF	
01		Enable System LCR		No LCR
02		Not Used		Not Used
03		555 LDI Route per Program 50-4		Per Area Code Table
04		Dial Tone After LCR Access		Silent
05		Warning Tone Last Choice Route Number		No Warning Tone
10		No CO Dial Tone After Line Access		CO Dial Tone (R4.15)

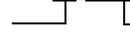
## Program 50-2 – LCR Home Area Code

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Least Cost Routing

**Initialized Default:** Leaves the home area code blank

\* \* \* \* 6 SNU +ROG 6 SNU +ROG 6 SNU +ROG 6 SNU +ROG

SELECT = 2  DATA = Home (local) area Code

## Programs 50-3 (1~5) – LCR Special Codes

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Least Cost Routing

**Initialized Default:** 911 in 31, all other codes blank

*	*		*	*		6	S	N	U							+	R	O	G	6	S	N	U							+	R	O	G	6	S	N	U							+	R	O	G	6	S	N	U							+	R	O	G
---	---	--	---	---	--	---	---	---	---	--	--	--	--	--	--	---	---	---	---	---	---	---	---	--	--	--	--	--	--	---	---	---	---	---	---	---	---	--	--	--	--	--	--	---	---	---	---	---	---	---	---	--	--	--	--	--	--	---	---	---	---

SELECT = 31~35  
Enter 31~35 to indicate the special code.

DATA = Special Code  
Enter the code from the table below.

Key 01 = blank

SELECT =	Special Code (4 Digits)	Examples
31		911
32		411
33		
34		
35		

## Program 50-4 – LCR Long Distance Information (LDI) Plan Number

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Least Cost Routing

**Initialized Default:** See the legend below

*	*		*	*		6	S	N	U							+	R	O	G	6	S	N	U							+	R	O	G	6	S	N	U							+	R	O	G	6	S	N	U							+	R	O	G
---	---	--	---	---	--	---	---	---	---	--	--	--	--	--	--	---	---	---	---	---	---	---	---	--	--	--	--	--	--	---	---	---	---	---	---	---	---	--	--	--	--	--	--	---	---	---	---	---	---	---	---	--	--	--	--	--	--	---	---	---	---

SELECT = 4 DATA = LDI Route Plan (see Legend below)

Processor	LDI Route Plans	LDI Route Plans Default
DK14	01~08	08
DK40i	01~08	08
RCTUA	01~08	08

Processor	LDI Route Plans	LDI Route Plans Default
RCTUBA/BB	01~08	08
RCTUC/D	01~16	16
RCTUE/F	01~16	16

## Program 50-5 – LCR Local Call Plan Number

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Least Cost Routing

**Initialized Default:** See the legend below

\* \* \* \* 6 SNU +ROG 6 SNU +ROG 6 SNU +ROG 6 SNU +ROG

SELECT = 5 DATA = Local Call Plan (see Legend below)

Processor	Local Call Plan Number	Local Call Plan Default
DK14	01~08	08
DK40i	01~08	08
RCTUA	01~08	08

Processor	Local Call Plan Number	Local Call Plan Default
RCTUBA/BB	01~08	08
RCTUC/D	01~16	16
RCTUE/F	01~16	16

## Program 50-6 – LCR Dial 0 (Zero) Time-out

**Processor Type:** DK14, DK40i, All RCTUs

**Program Type:** Least Cost Routing

**Initialized Default:** Assigns an LCR Dial Zero Time-out value of 06

\* \* \* \* 6 SNU +ROG 6 SNU +ROG 6 SNU +ROG 6 SNU +ROG

SELECT = 6 DATA = Time-out Value

Enter a time-out value from 04~10 seconds long.



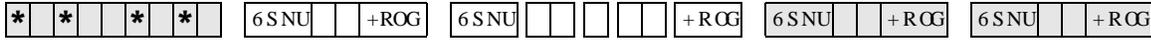






# Program 55-0 – Delete Number of Digits From the Front of Dialed Number

Initialized Default: All tables blank



SELECT = Modified Digits Table (see Program 55 Legend)      FIGURE = Quantity of Digits (00~10) to be deleted.

**Program 55-0  
Delete Digits Table**

Table Number	Quantity of Digits (01~10 max)
01	
02	
03	
04	
05	
06	
07	
08	
09	
10	
11	
12	

# Program 55-1 and 2 – Add Digits Before and/or After the Dialed Number

**Initialized Default:** Leaves all tables blank except Delete Digits, which are all 00



SELECT = Modified Digits Table

CODE = Digits added (up to 22)

- 1 = Add digits in front of number dialed (F-MDT)
- 2 = Add digits at the end of number dialed (E-MDT)  
(see Program 55 and \*45-4 Legend)

Enter the digits to be added. Pauses may be coded as described in the pause entry reference table below.

### Pause Entry Reference (Programs 55-1, 55-2)

Key/LED	Pause (Seconds)	Record Entry	Special Functions
08	16	P8	LED Button 09 (R4.15) ISDN Start Key, LCD = G Key/LED 11: Clear All
07	14	P7	
06	12	P6	Key/LED 10: Convert DP to DTMF, LCD = T
05	10	P5	
04	8	P4	
03	6	P3	Key/LED 12: Code for ISDN Sub-address Separator LCD = S
02	4	P2	
01	2	P1	

### Modified Digits Table (MDT)

#### Add to FRONT of Dialed Number (Program 55-1)

Table No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
01																							
02																							
03																							
04																							
05																							
06																							
07																							
08																							
09																							
10																							
11																							
12																							

### Modified Digits Table (MDT)

#### Add to END of Dialed Number (Program 55-2)

Table No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
01																							
02																							
03																							
04																							
05																							
06																							
07																							
08																							
09																							
10																							
11																							
12																							



## Program 03 – RSIU, RSSU, PIOU, PIOUS ACD/MIS Slot Assignments

Initialized Default: *n/a*

\* \* \* \* 6 SNU +ROG 6 SNU +ROG 6 SNU +ROG Power OFF (5 sec.) then ON

PIOU, PIOUS, or RSSU Slot Number (12~78) ———— Enter 42 to assign the PIOU, PIOUS, or RSSU  
...or RSIU Slot Number 11 TTY Port as MIS port, or enter 49 to assign RSIU  
to slot 11 (see Program 76 if installing RSIU).

### Program 03 Overview

This program is for specifying RSIU, RSSU, PIOU, or PIOUS ACD/MIS Slot Assignments.

If MIS output is required for ACD, set Code 42 for the slot in which the RSSU, PIOU or PIOUS is installed, or Code 49 if RSIU is installed in slot 11 (that connects to the SMIS personal computer). If you use RSIU/RSIS for MIS output, you must set the appropriate port for MIS operation/speed using Program 76.

# Program 09 – Auto Attendant Prompt/ACD Group Assignments

Initialized Default: *n/a*

\*  \*  \*  \* 
 6 SNU   +ROG  6 SNU     +ROG  6 SNU   +ROG  6 SNU   +ROG

SELECT = Dialed Digit(s)  
Menu prompts offered to  
caller (1 or 2 digits)

AUTO ATT DIAL = ACD Group No.  
Enter the ACD Group numbers which will receive  
Auto Attendant calls. Press \* if establishing the  
first digit of a two digit dialing format.

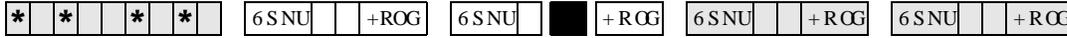
Processor	ACD Group Numbers
RCTUBA/BB	01-08
RCTUC/D	01-16
RCTUE/F	01-16

Dialed Digit (Menu Prompts)	ACD Group Number	Department, Division, Etc.
0		
1		
2		
3		
4		
5		
6		
7		
8		
9		



# Program 10-4 – ACD/ISDN Parameters

Initialized Default: LEDs 12 and 14 are ON



SELECT = 4  Light Button/LEDs as defined by the table below. If the X column is checked, the LED should be ON.

Button/ LED	X	LED ON	LED OFF
20			
19			
18			
17			
16			
15			
14		ISDN "Start" access code is sent when the Speed Dial (SDS) button is pressed (initialized).	ISDN Start access code is not sent.
13		Receive 3.1kHz audio calls as speech calls only if a progress indicator is sent.	Always receives 3.1kHz calls.
12		BRI T-Wait ON (initialized)	BRI T-Wait OFF
11		PRI T-Wait ON	PRI T-Wait OFF (initialized)
10			
09			
08			
07			
06			
05			
04		All Agents Unavailable Route: Per Prog. 14-5 (Overflow Point Destination)	All Agents Unavailable Route: Per Prog. 14-6 (After Shift Destination)
03		Agent receives Supervisor Monitor Tone/LCD display when being monitored	Agent does not receive Supervisor Monitor Tone/LCD display when being monitored
02			
01		ACD Mode: Most idle Agent receives next call	ACD Mode: Next Available Agent receives next call

# Program 11 – ACD Timing Assignments

Initialized Default: See table below



Code (1-9) \_\_\_\_\_  
 ACD Group No. \_\_\_\_\_  
 Music Timer (1-3) \_\_\_\_\_  
 (used only with Code 5, skip this entry for all other codes)

DATA = Time (min. or sec.)

Processor	ACD Group Numbers
RCTUBA/BB	01-08
RCTUC/D	01-16
RCTUE/F	01-16

Code	Time	Initialized Data	Notes
1	0000-3600 sec.	0030 sec.	0000 = No Overflow
2	000-255 sec.	030 sec.	
3	000-255 sec.	060 sec.	
4	000-120 sec.	001 sec.	
5	000-999 sec.	030 sec.	
6	000-255 sec.	120 sec.	
7	000-600 sec.	240 sec.	
8	00-30 min.	01 min.	00 Disables Alarm Guard Timer; blocks Alarm Reset
9	00-60 min.	00 min.	00 Disables Timer

ACD Group No.	Code 1	Code 2	Code 3	Code 4	Code 5			Code 6	Code 7	Code 8	Code 9
	Queue Overflow Timer	Ring Agent Timer	Wrap-up Timer	RBT before Announce Timer	Connect to Music Timer			Call Waiting Alarm Timer 1	Call Waiting Alarm Timer 2	Alarm Guard Timer	Disconnect of ACD Call Timer
					1	2	3				
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											







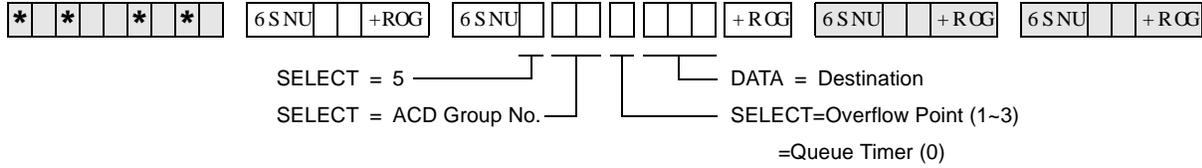






# Program 14-5 – Overflow Point and Ring No Answer Routing Destination

Initialized Default: *Overflow point=0, no overflow point*



Processor	ACD Group Numbers	[PDN] Port Range	[PhDN] Port Range
RCTUBA/BB	01-08	000-079	500-079
RCTUC/D	01-16	000-239	500-739
RCTUE/F	01-16	000-335	500-835

DATA	Destination
OP0, OP1, OP2, OP3	Overflow Point (OP) Destination (Incoming Port 000). Only one OP can be programmed. For No Overflow, select DATA=0.
See [PDN] Port Range	Station or Attendant Console [PDN] Program 04 Port No.
301-316	ACD Group (RCTUBA/BB, RCTUC/D)
401-416	ACD Group (RCTUE/F)
320 (RCTUBA/BB, C/D) 420 (RCTUE/F)	Auto Attendant (DK Built-in)
321 (RCTUBA/BB, C/D) 421 (RCTUE/F)	Normal CO line; Ring assignments not including delayed ringing assignments
See [PhDN] Port Range	[PhDN] Program *04 Port No.
900-915	Distributed Hunt Group Program *04 Port No.

ACD Group No.	Overflow Point	RNA and Overflow Point Destination

ACD Group No.	Overflow Point	RNA and Overflow Point Destination











## **Program 15 – Ground/Loop/Tie/DID Line Options**

If loop start lines are routed to ACD Groups, set each line to automatically release when the CO sends the AR signal after the outside party hangs up. Use Program 15 Code 1 and Code 3 to set auto release detection for each CO line.

See [Page 27](#) for the programming record sheet.

## **Program 17 – DID/Tie Line Options**

If DID/Tie lines must be routed to ACD Groups, use Program 17 to set the appropriate options for each DID/Tie line.

See [Page 30](#) for the programming record sheet.

## **Program 35 – Station Class of Service**

To allow Agent Help (assistance) calls to busy Supervisor telephones, enable Busy-Station-Transfer (LED 20-ON) on Agent telephones and Busy-Station-Ring (LED 19-ON) on Supervisor telephones. Supervisor telephones should have more than one [PDN] (Program 39) to receive Agent Help calls when the Supervisor telephone is busy.

See [Page 54](#) for the programming record sheets.

## **Program 71 – DID/Tie/DNIS/ANI Lines**

If DID/Tie/DNIS/ANI lines route to ACD Groups and provide DNIS line features (such as the DNIS name, night/day routing, etc.), use Program 71 to assign the DID/Tie/DNIS digits or ANI lines to route the appropriate ACD Group (see Program 17, LED 05).

Also see [Page 89](#).



## Automatic Call Distribution

### Program 39 – Flexible Button Assignments for ACD Telephones

ACD Feature Button Designation	Feature Code	Program on Agent Telephone	Program on Supervisor Telephone	Notes
& +HOS		X		Rings a Supervisor [DN] button, enabling an Agent to request assistance while talking on an ACD call. Calls the highest numbered Supervisor telephone or [PDN]
( QG IWHU &DD : RUN 7LPH		X		Manually cancels unused wrap-up time. This enables an Agent to receive another ACD call.
( QG 2I & 6KLIW			X	Enables the Supervisor to stop new calls from entering the ACD Group queue or from ringing Agents. The End of ACD Shift mode routes new calls to the After Shift destination set in Program 14-6. A Supervisor must be logged in to use this button.
7 UDQM HUWR & * URXS	&RQ 7 UQ	X	X	Program this Speed Dial sequence on telephones that must transfer calls to ACD Groups. This enables one-touch transfer of CO lines (ground/loop start or DID/Tie) to ACD Group . = ACD Group 01-16.  Transfer to an ACD Group is always blind and immediate and does not recall the transferring station.  If the ACD Group shift is ended or all Agents are unavailable, the transferred call is routed per the called Group's After Shift or All Agents Unavailable destination.
0 RQLWRU & &D00			X	Used by Supervisor to monitor Agent calls (Supervisor telephone only). Enables the Supervisor to listen to any Agent's ACD calls (not non-ACD or PBX calls) by pressing the Monitor ACD Call button and then entering the Agent's ID code.  During Agent monitoring, a one-way talk path enables the Supervisor to listen to the Agent/outside party conversation without the Agent/caller hearing the Supervisor.  An optional "Call Monitor" tone (dial tone burst) can be sent to the Agent/caller every 15 seconds (see Program 10-4, LED 03) while the Supervisor is monitoring the ACD call. The Agent LCD displays MONITOR BY SUPRV when this option is enabled.
4 XHXH 6 WDWXV	[PDN] +		X	Program these speed dial buttons on the Supervisor's telephone to enable quick access to Queue Status, Agent Status, and one-touch Supervisor log in.  (XX = ACD Group 01-16)
J HQW 6 WDWXV	[PDN] +		X	
5 HVHW4 XHXH CLP	448		X	Used to reset a queue alarm that is sent to the Supervisor telephone when the number of calls in queue exceeds the limits of queue alarm parameters (see Programs 14-71-73, 14-8, 11-6, and 11-7 for queue alarm parameters).

ACD Feature Button Designation	Feature Code	Program on Agent Telephone	Program on Supervisor Telephone	Notes
6 XSHUYLRU &DDD	Program [PDN] in Program 39		X	<p>This is the [PDN] of the Supervisor telephone. Supervisor telephones do not require a unique [PhDN] like Agent telephones.</p> <p>Toshiba recommends programming more than one [PDN] onto Supervisor telephones to enable Agent Help (assistance) calls to ring busy Supervisor telephones.</p> <p>Also program Agents with Busy Station Transfer and Supervisors with Busy Station Ring (see Program 35 BST and BSR).</p>

Speed Dial Codes	Speed Dial Code	Program on Agent Telephone	Program on Supervisor Telephone	Notes
RCTUBA/BB, C/D (station)	* ~*	X	X	All of the above ACD Features can be programmed onto SD buttons or onto speed dial codes. This table shows the range of Station and System Speed Dial Codes by processor.
RCTUBA/BB, C/D (system)	* ~*	X	X	
RCTUE/F (station)	* ~*	X	X	
RCTUE/F (system)	* ~*	X	X	

**Automatic Call Distribution**

*Program 39 – Flexible Button Assignments for ACD Telephones*

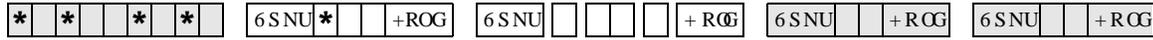


# Program \*42 – Clock Source

**Processor Type:** DK40i, All RCTUs (Release 4.0 or higher). For Release 3.1 and earlier programming, see below.

**Program Type:** System, T1, PRI, BRI

**Initialized Default:** Blank



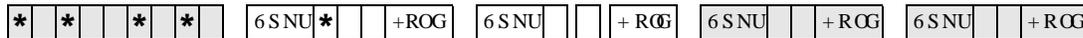
SEL = 1 or 2  
 1 - Primary Source  
 2 - Secondary Source

Circuit Number  
 PRIMARY = or SECONDARY =  
 Slot Number (Release 4.0 entry. Not used for release 3.1 or earlier versions.)

Clock Source	Slot Number	Circuit No.
Primary		
Secondary		

# Program \*42-1 – Primary Timing Reference Assignments (Release 3.1 and earlier)

**Initialized Default:** Primary = 1, Secondary = 2



SEL = 1 or 2  
 1 - Primary Source  
 2 - Secondary Source

RDTU PCB Number (1~8)  
 Enter the RDTU PCB number that is connected to the primary reference T1 (span line) clock source.  
 Press LED Button 01 (blank) if the DK424 T1 is the master (free run) clock source.

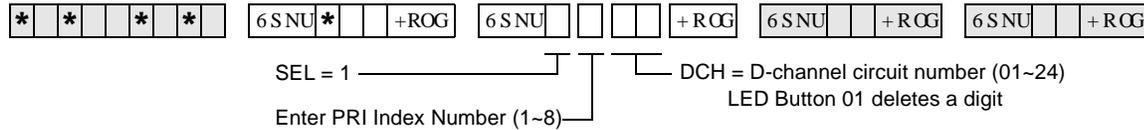
Select	RDTU PCB Number
Primary	
Secondary	

# Program \*43-1~3 – D-Channel Control and NFAS Assignments

**Processor Type:** All RCTUs (Release 4.0 or higher)

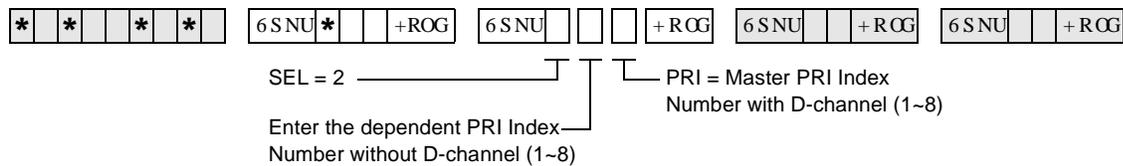
**Program Type:** System, PRI

**Initialized Default:** Blank (see Important! below)

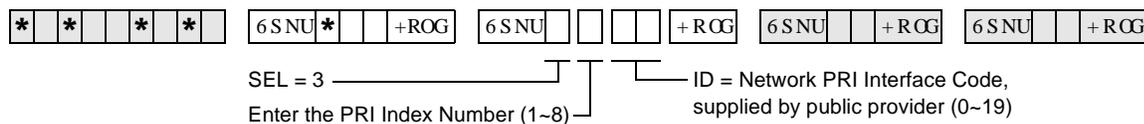


PRI Index	*43-1 D-Channel Circuit No.	*43-2 Master PRI Index	*43-3 Network PRI Interface ID Code

## Program \*43-2 – Non-Facility Associated Signaling (NFAS) Assignment



## Program \*43-3 – Network PRI Interface Assignment



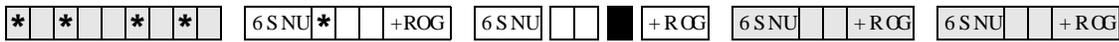


# Program \*60 – BRI Line/Station Operation Assignment

**Processor Type:** DK40i, All RCTUs (Release 4.0 or higher)

**Program Type:** System, BRI

**Initialized Default:** All LEDs OFF



SEL = Slot No. LEDs 1~4 = Circuits 1~4 (see legend below)

LED	RBSU Circuit	LED ON	LED OFF
1	1	CO Line (TE)	Station Operation (NT) (default)
2	2	CO Line (TE)	
3	3	—	
4	4	—	

**Note** Power must be cycled OFF, then ON before changes take effect.

LEDs	Slot 1				Slot 2				Slot 3				Slot 4				Slot 5				Slot 6				Slot 7			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
1																												
2																												
3																												
4																												







# Program \*63 – ISDN Dialing Parameters

**Processor Type:** DK40i, All RCTUs (Release 4.0 or higher)

**Program Type:** System, PRI and BRI

**Initialized Default:** 4 seconds



SEL = 1 or 2 (see table below) DATA = Seconds (see table below)

Select	Timeout Parameter	Value	Comments
1	Sub-address dialing		Value 00 to 10 seconds (default 04)
2	Outdialing		Value 02 to 10 second (default 04)

# Program \*64-1 – Direct Inward Dialing Parameters

**Processor Type:** DK40i, All RCTUs (Release 4.0 or higher)

**Program Type:** Trunk, PRI and BRI

**Initialized Default:** LED 01 ON for DID or DNIS programming



SEL = 1 Enter the trunk group(s) To add a range of trunk groups, enter XX\*XX (low trunk group \* high trunk group)

LED 01: ON = Use DID/DNIS tables in Programs \*09 or 71  
OFF = Use direct ringing tables in Programs 81-89, \*81, \*84, \*87

LED	LED ON	LED OFF
01	Use DID/DNIS for incoming calls.	Direct ring the called station.

Trunk Groups	Ports	LEDs
		01
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		

# Program \*64-2 – Number of DID/DNIS Digits for Trunk Groups

**Processor Type:** DK40i, All RCTUs (Release 4.0 or higher)

**Program Type:** System, PRI and BRI

**Initialized Default:** Blank

\*\*\*\*
6 SNU\*+ROG
 6 SNU+ROG
 6 SNU+ROG
 6 SNU+ROG

SEL = 2  
Enter Trunk Group Number

DATA = Enter the number of digits to use for incoming call DID digits (2-5)

To add a range of trunk groups, enter XX\*XX (low trunk group \* high trunk group)

Trunk Groups	Number of DID Incoming Call Digits per Trunk Group
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	



# Program \*65 – ISDN Channel Group Assignment

**Processor Type:** All RCTUs (Release 4.0 or higher)

**Program Type:** System, PRI

**Initialized Default:** All LEDs OFF (see Important! below)

**Note** Program \*65 must be assigned before entering Program\*66.



SEL = Channel Group (1~8)      GRP = Light LEDs to select PRI B-channels for the channel group.  
 Press 6FUR to advance or 3DJ H to go back.

ISDN B-channel Lines	RCTUA	RCTUBA/BB	RCTUC/D	RCTUE/F
PRI (T)	23	47	141	188

Channel Group	CO Line Ports (B-Channels)																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				

# Program \*66-1 – Channel Group Number Parameters

**Processor Type:** All RCTUs (Release 4.0 or higher)

**Program Type:** Trunk, PRI

**Initialized Default:** Blank

**Note** Program \*65 must be assigned before entering Program \*66. If Program \*65 changes, then this program will be affected. Program \*66 defaults back to the settings in Program \*65.

\*\*\*\*
6 SNU\*+ROG
 6 SNU+ROG
 6 SNU+ROG
 6 SNU+ROG

SEL = 1 ————┐  
 Enter the ISDN Trunk —┐  
 Group Number ———┘ CHGP = Channel Group Number (1~8)

Trunk Groups															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

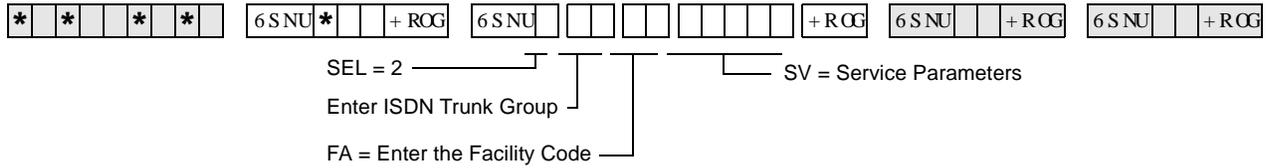


# Programs \*66-2 and \*66-4 – Call-by-Call Trunk Group Codes and Network ID

**Processor Type:** All RCTUs (Release 4.0 or higher)

**Program Type:** Trunk, PRI

**Initialized Default:** Blank



Trunk Group	Facility Code	Service Parameters	Carrier Code (Prog. *66-4)
1			
2			
3			
4			
5			
6			
7			
8			

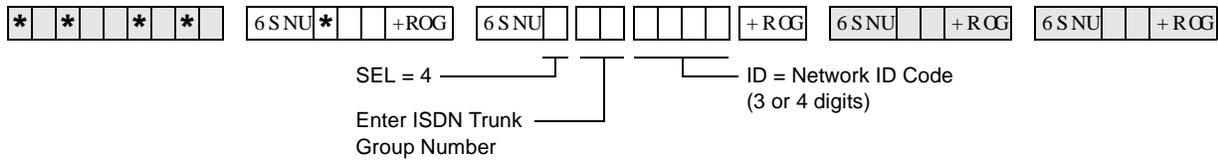
Trunk Group	Facility Code	Service Parameters	Carrier Code (Prog. *66-4)
9			
10			
11			
12			
13			
14			
15			
16			

## Program \*66-4 Call-by-Call Network ID

**Processor Type:** All RCTUs (Release 4.0 or higher)

**Program Type:** Trunk, PRI

**Initialized Default:** Blank



### Record Sheet

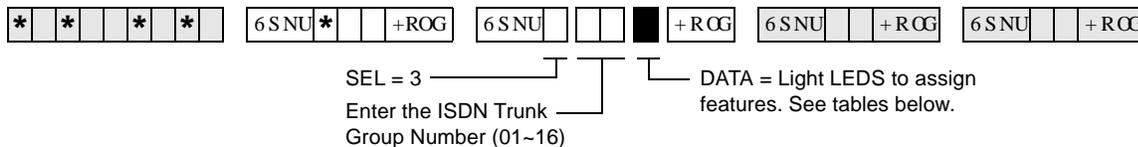
Use the record sheet for Program \*66-2.

# Program \*66-3 – Channel Group/Trunk Parameters

**Processor Type:** All RCTUs (Release 4.0 or higher)

**Program Type:** Trunk, PRI

**Initialized Default:** Blank



LEDs 03~06 specify the trunk types shown in the following table.

LEDs	POTS	FX	Tie (senderized)	Tie (cutthrough)	OutWATS (IntraLATA)	OutWATS (InterLATA)	InWATS
03		ON			ON	ON	
04			ON	ON	ON	ON	
05							ON
06				ON		ON	

LEDs	Setting	Trunk Groups																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
01	ON: Operator Calls Allowed/ OFF: Not allowed																	
02	ON: Carrier Access allowed OFF: Not allowed																	
03	Trunk Group Type (see above table).																	
04	Trunk Group Type (see above table).																	
05	Trunk Group Type (see above table).																	
06	Trunk Group Type (see above table).																	
07~10	Not Used																	
11	ON: Called Party Number Type Unknown OFF: Standard Called Party Number Type																	
12	ON: DK sends Ringback Tone to Network OFF: No RBT to Network. (Default is ON.)																	
13	ON: DMS CO switches only OFF: Belcore (default is OFF.)																	

ISDN





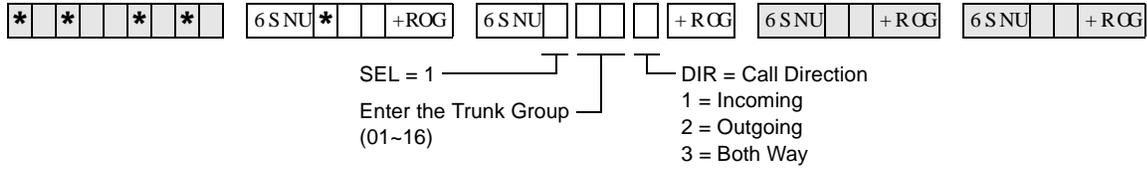


# Program \*67-1 – Trunk Group Call Direction

**Processor Type:** All RCTUs (Release 4.0 or higher)

**Program Type:** Trunk, PRI

**Initialized Default:** Both Way



Value	Trunk Groups																Call Direction
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1																	Incoming
2																	Outgoing
3																	Both Way

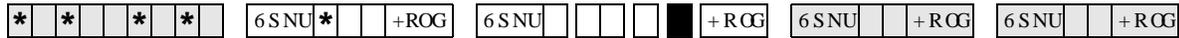


# Program \*67-2 – Call Types for ISDN Trunk Group Supported

**Processor Type:** All RCTUs (Release 4.0 or higher)

**Program Type:** Trunk, PRI

**Initialized Default:** Blank



SEL = 2 —————

Enter the Trunk Group (01~16) —————

Enter the Time Zone (1~3)  
For Rel. 4.0, enter 1 —————

Turn on LEDs 01~04 to select the call type. See table below.

Trunk Groups	Time Zone	Speech LED 01	3.1 kHz Audio LED 02	64 kbps. Data LED 03	56 kbps. Data LED 04
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

# Program \*67-3 – ISDN Trunk Group Minimum Channel Reservation

**Processor Type:** All RCTUs (Release 4.1)

**Program Type:** Trunk, PRI

**Initialized Default:** Default = 00



SEL = 3 ————

Enter the Trunk Group (01-16) ————

Enter the Time Zone (1-3) ————  
For Rel. 4.0, enter 1

MIN = Minimum number of B-channels reserved.  
Max. 47 when sharing D-channels.

Trunk Groups	Time Zone 1 B-channels reserved		Time Zone 2 B-channels reserved		Time Zone 3 B-channels reserved	
	Min.	Max.	Min.	Max.	Min.	Max.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

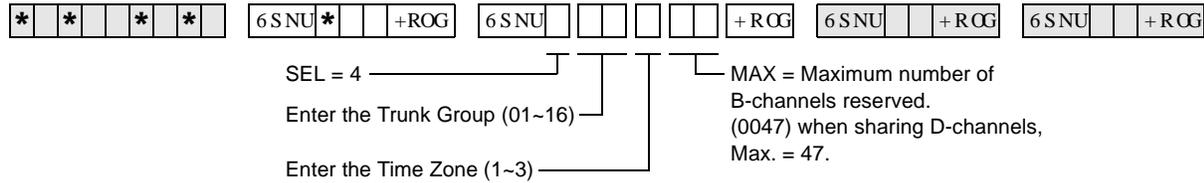


# Program \*67-4 – ISDN Trunk Groups Maximum Channel Reservation

**Processor Type:** All RCTUs (Release 4.1 or higher)

**Program Type:** Trunk, PRI

**Initialized Default:** 23 maximum default channels

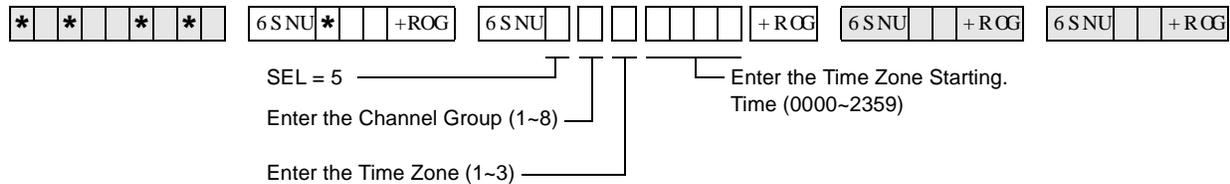


# Program \*67-5 – Multiple Time Zone Settings

**Processor Type:** All RCTUs (Release 4.15 or higher)

**Program Type:** Trunk, PRI

**Initialized Default:** Default = 0000

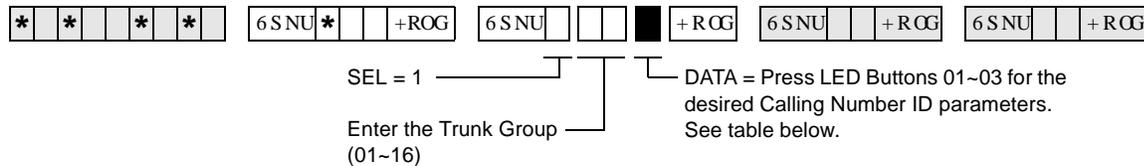


# Program \*68-1 – Calling Number ID Presentation Parameters

**Processor Type:** DK40i, All RCTUs (Release 4.0 or higher)

**Program Type:** Trunk, PRI and BRI

**Initialized Default:** all LEDs OFF



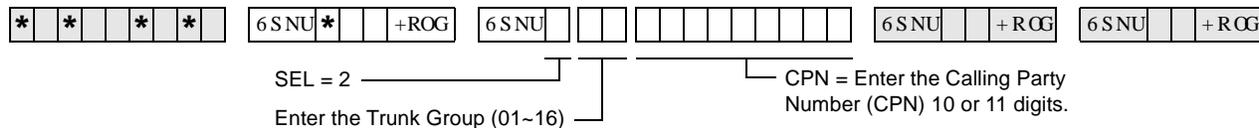
LED	Caller ID Setting	Trunk Groups															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Outgoing Caller ID (ON = Allowed / OFF = Not Allowed)																
2	Outgoing Caller ID Status Change: ON = Allowed / OFF = Not Allowed																
3	Incoming Caller ID Source: ON = Network Provided OFF = Caller Provided																

# Program \*68-2 – Outbound CNIS Parameters

**Processor Type:** DK40i, All RCTUs (Release 4.0 or higher)

**Program Type:** Trunk, PRI and BRI

**Initialized Default:** Blank



Trunk Groups	Calling Party Number
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	







**ISDN**

*Program \*69-2 – Special Number Assignment*

## Program \*11-0 – E911/CAMA Trunk Assignments

**Processor Type:** All RCTUs (Release 4.0)

**Program Type:** System

**Initialized Default:** all LEDs OFF



SELECT = 0 Light the LED Buttons that are marked with an X in the table below.  
ON=Enabled. OFF=Disabled.

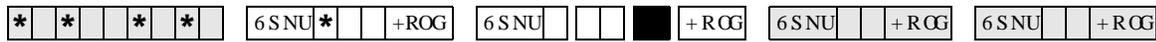
LED/ Button	X	LED ON	LED OFF
11		E911 enabled	E911 disabled
10		CAMA trunk 4 not used	CAMA trunk 4 used
09		CAMA trunk 3 not used	CAMA trunk 3 used
08		CAMA trunk 2 not used	CAMA trunk 2 used
07		CAMA trunk 1 not used	CAMA trunk 1 used
06			
05			
04			
03		No internal notification	Internal notification provided
02		CAMA trunk Control Disconnect	Normal disconnect
01		Seven CESID Digits	Ten CESID Digits

# Program \*11-1 – CAMA Trunk Group Line Assignments

**Processor Type:** All RCTUs (Release 4.0)

**Program Type:** System

**Initialized Default:** all LEDs OFF



CAMA Trunk Group (01-08) Line circuit number of CAMA trunk: Turn ON LED of line that corresponds to the CAMA trunk position in the system.

Processor	CO Line Range
DK14	001~004
DK40i	001~012
RCTUA	001~016

Processor	CO Line Range
RCTUBA/BB	001~048
RCTUC/D	001~144
RCTUE/F	001~200

CAMA Trunk Group	CO Line Numbers of CAMA Trunks			
01				
02				
03				
04				
05				
06				
07				
08				

# Program \*11-2 – CAMA Trunk Group Hunting Assignments

**Processor Type:** All RCTUs (Release 4.0)

**Program Type:** System

**Initialized Default:** Blank



Hunt from CAMA Trunk Group (01-08) DATA = Hunt to CAMA Trunk Group (01-08)

Hunt from CAMA Trunk Group	Hunt to CAMA Trunk Group
01	
02	
03	
04	
05	
06	
07	
08	

# Program \*11-5 – CAMA Digits Sent on 911 Calls

**Processor Type:** All RCTUs (Release 4.0)

**Program Type:** System

**Initialized Default:** 911

\* \* \* \* 6 S N U \* + R O G 6 S N U + R O G 6 S N U + R O G 6 S N U + R O G

SELECT = 5   CAMA digits sent if user dials 911 (911, 11, 1)  
Use LED button 01 to blank out 9 or 91

X (choose 1)	CAMA Digits Sent
	911
	11
	1

# Program \*11-6 – E911 Interdigital Timer

**Processor Type:** All RCTUs (Release 4.0)

**Program Type:** System

**Initialized Default:** Data, 2 seconds

\* \* \* \* 6 S N U \* + R O G 6 S N U + R O G 6 S N U + R O G 6 S N U + R O G

SELECT = 6   DATA = interdigital time delay before routing calls after 9XX (01~15 seconds).  
If X=1, timer resets  
If X=0, 2~9, digits are routed/sent normally

DATA (01~15 secs.)

E911

# Program \*11-8 – 911 Special [DN] Notification Assignments

**Processor Type:** All RCTUs (Release 4.0)

**Program Type:** System

**Initialized Default:** Data, Blank



SELECT = 8 ———— [PDN] or [PhDN] port number that should ring to be notified when 911 is dialed by a station (\*71, \*72 or \*73 required for ringing)

1 = Day Mode ————

4 = Day2 Mode

7 = Night Mode

Processor	[PDN] Port Range	[PhDN] Port Range
DK14	000-009	500-509
DK40i	000-027	500-527
RCTUA	000-031	500-531

Processor	[PDN] Port Range	[PhDN] Port Range
RCTUBA/BB	000-079	500-579
RCTUC/D	000-239	500-739
RCTUE/F	000-335	500-835

Mode	[DN] Port Number
Day	
Day2	
Night	



