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HYBRID TELEPHONE SYSTEM
GROUPHONE **TX-Z Series**

INSTRUCTION
AND
INSTALLATION MANUAL

Model 308/824/1232/2464

Nitsuko



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Manual abstract:

No part of this document may be photocopied or reproduced without prior written consent of Nitsuko. (C) 1998 by Nitsuko Corporation. All Rights Reserved. Printed in Japan This manual consists of eight parts: PART 1: INTRODUCTION PART 2: SPECIFICATIONS PART 3: SYSTEM INSTALLATION PART 4: FEATURE DESCRIPTION AND OPERATION PART 5: SYSTEM PROGRAMMING PART 6: PROGRAM RECORD FORM PART 7: OPTIONAL ITEMS (Caller-ID, FAXU, VAU) PART 8: HOW TO USE FOR SINGLE LINE TELEPHONE PART 1 INTRODUCTION The TX-Z 308/824/1232/2464 system is a microprocessor-based, state-of-the-art communications system which offers you superb service, and the flexibility and features which are usually only found on larger, more expensive systems. The TX-Z 308/824/1232/2464 system is designed to give you the best custom-designed services available, making it as easy to use as it is to install. The system can operate by itself or behind a Private Branch Exchange (PBX). The TX-Z 308 system is ideal choice for small or home office. It starts with three lines and eight extensions. TX-Z 824 system can grow in size from the basic four outside lines and eight extensions to eight outside lines and twenty-four extensions. Main Equipment for TX-Z 1232/2464 system is slot type expansion cabinet and expandable using one cabinet.

This system can grow in size from twelve outside lines and thirty-two extensions to twenty-four outside lines and sixty-four extensions only adding expansion mother board and power supply unit. With the touch of a few keys, you will have such sophisticated features as Abbreviated Dialing, Repeat Dialing, Conference Call, and Paging etc. at your fingertips. You can also have text message with display phone! The possibilities are almost limitless. The system offers you the flexible assignment of outside lines, and a toll restriction package that can be tailored to suit your needs.

Optional equipments (Doorphone, BGM/External MOH input, External Paging output, SMDR I/F, Fax Machine, Voice Mail) can be installed if you desire. Such options are guaranteed to expand and enrich the already wide horizons of your system. One of the excellent points about TX-Z 308/824/1232/2464 system are powerful features provided for single line telephone. Most of features provided for key telephone can be used on single line telephone. Also, you do not need exclusive interface unit to connect single line telephones to TX-Z 308/824/1232/2464 system.

It means that you can use the same interface unit as key telephone. This manual will provide you with step-by-step instructions for the installation of the basic equipment, the procedure for customizing your system so that it serves your office or company's particular needs, and the easy, almost effortless instructions for using your telephones. NOTE: Please read through this entire manual at least once before ordering any additional equipment or attempting any installation. PART 2 SPECIFICATIONS General Description System Configuration Visual Indication Audible Indication General Description System Capacity Items System Size Trunk Line Extension Key Telephone Single Line Telephone Intercom Talk Path Paging Path DTMF Receiver Doorphone Interface External Speaker Output External MOH Input PF Transfer Line TX-Z 308 System 308 3 8 Max. 7 (No. 10 to No. 16) Max. 6 (No. 12 to No. 17) 2 1 2 2 1 1 1 (Fixed to CO No.

1 to Ext. No. 17) Items System Size Trunk Line Extension Key Telephone Single Line Telephone DLS Console Intercom Talk Path Paging Path DTMF Receiver Doorphone Interface BGM Input External Speaker Output External MOH Input Ringer Unit PF Transfer Line 2 408 4 8 8 8 TX-Z 824 System 616 6 16 16 824 8 24 24 24 Max. 3 (Use DLS console as DSS console.) 6 2 4 2 1 2 1 1 4 6 ¾ 2-1 ¾ General Description System Capacity Items System Size Trunk Line Extension Key Telephone Single Line Telephone DSS Console Intercom Talk Path Paging Path DTMF Receiver Doorphone Interface BGM Input External Speaker Output External MOH Input Ringer Unit PF Transfer Line 1 12 8 2 1 2 1 2 TX-Z 1232/2464 System 1232 12 32 32 32 1 10 2 16 2464 24 64 64 64 2 Note: When one DSS Console is connected, one intercom talk path is occupied. When DSS Console, Paging Path or BGM Input is used, intercom talk path(s) will be used. ¾ 2-2 ¾ General Description Electrical Specifications Station Cable Length Limit Key Telephone Single Line Telephone Doorphone Box

* 300 m (0.5 f two-pair twisted cable). 1,125 m (0.5 f one-pair twisted cable). 150 m (0.5 f one-pair twisted cable). Off-premises extension is not allowed. In other words, do not run the wire in outdoor. Power Supplies 308M 90 V AC to 264 V AC, 50/60 Hz.

90 V AC to 134 V AC, 50/60 Hz. 180 V AC to 264 V AC, 50/60 Hz. 90 V AC to 264 V AC, 50/60 Hz. 40 VA maximum. 85 VA maximum. 195 VA maximum. 390 VA maximum. +5 V DC, +6 V DC, +12 V DC, +28 V DC. 824M-100 824M-200 2464M 308 Primary Power Power Consumption Secondary Power 824 1232 2464 External Equipment Specifications Background Music (BGM) /Specifications Input Impedance 600 W Input Level Nominal 250 mV (-10 dBm). Maximum Input 1 Vrms External Music On Hole (MOH) Specifications Input Impedance 600 W Input Level Nominal 250 mV (-10 dBm). Maximum Input 1 Vrms External Paging Speaker Specifications Output Impedance 600 W Output Level Nominal 250 mV (-10 dBm). Maximum Output 400 mV rms ¾ 2-3 ¾ General Description Mechanical specifications Items TX-Z 308 Main Equipment TX-Z 824 TX-Z 1232/2464 Display Type Key Telephone Standard Type Dimensions (W ´ D ´ H mm)/Weights (Kg) 335 ´ 265 ´ 90/1.9 475 ´ 325 ´ 104/5.00 494.6 ´ 362 ´ 230/6.

70 221 ´ 170 ´ 88/0.80 (TXD) 216 ´ 177 ´ 81/0.75 (BTXD) 221 ´ 170 ´ 88/0.75 (TD) 216 ´ 177 ´ 81/0.70 (BTD) 221 ´ 170 ´ 63/0.50 (64 D DSS) 216 ´ 177 ´ 59/0.50 (64 BD DSS) 221 ´ 62.5 ´ 63/0.20 (24 DL DLS) 212 ´ 60 ´ 59/0.20 (24 BDL DLS) 132 ´ 100 ´ 35/0.

20 DSS Console DLS Console Doorphone Box Environmental Specifications Items System Temperature Humidity Doorphone Environmental Requirements 0 to 45 degree C (32 to 113 degree F). -20 to 60 degree C (-4 to 140 degree F). 10% to 95% noncondensing. ¾ 2-4 ¾ System Configuration (TX-Z 308) Name Description Quantity /System Remarks CPU, Power Supply, battery charger, 3-Trunk/8extension interface, ringer, 1 PF transfer circuit included. NX. E-308M TXZ ME TX-Z 308 Main Equipment 1 NX.E-6TD TXZ KTS 6 Line keys, standard type Key Telephone NX.E-6TXD TXZ KTS 6 Line keys, display type Key Telephone NX.E-12TD TXZ KTS 12 Line keys, standard type Key Telephone NX.E-12TXD TXZ KTS 12 Line keys, display type Key Telephone NX. E-6BTD TXZ KTS 6 Line keys, standard type Key Telephone NX.E-6BTXD TXZ KTS 6 Line keys, display type Key Telephone NX.E-12BTD TXZ KTS 12 Line keys, standard type Key Telephone NX.E-12BTXD TXZ KTS 12 Line keys, display type Key Telephone NX7E-3SMDR-A1 NX7E-3DHXU-A1 NX7E-3FAXU-A1 NX7E-3CIDU-A1 SMDR interface card Doorphone I/F, relay contacts, EXMOH input, EXP output FAX Transfer /DUD Interface Card Caller-ID Interface Card 1st Model.



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Modular station cable included. 1 to 7 2nd Model. Modular station cable included. Note 2 Note 2 1 1 1 1 Music source is required for EXMOH. Note 2 Note 2 Complied with Bellcore Spec. NT-S-D6 DX2E-32i/NX7E BATTERY BOX NX.

E TXZ W.M.K NX.E TXZ ABB.CARD SET DX.E ABB.CARD SET 2-wire doorphone box External backup battery box Wall-mount bracket Pull-out type abbreviated dial number card (20 pcs) Stand type abbreviated dial number card (20 pcs) 2 1 As needed As needed As needed 1 pce. per key telephone. NP2.6 or equivalent batteries are required.

Note 1: The above list shows composition of a system with full capacity. Note 2: A maximum of 2 out of these 4 optional cards can be installed in TX-Z 308 Main Equipment. <Abbreviations used> EXMOH: External Music On Hold EXP: External Paging KTS: Key Telephone Set ME: Main Equipment SMDR: Station Message Detail Recording SLT: Single Line Telephone DUD: Direct Universal Dialing ¾ 2-5 ¾ System Configuration (TX-Z 824) Name NX.E-824M TXZ ME(1) NX.E-824M TXZ ME(2) NX.

E-6TD TXZ KTS Description TX-Z 824 Main Equipment for 100V TX-Z 824 Main Equipment for 200V 1 Quantity /System Remarks CPU, Power Supply, battery charger, and 4Trunk/8-extension interface included. 6 Line keys, standard type Key Telephone NX.E-6TXD TXZ KTS 6 Line keys, display type Key Telephone 12 Line keys, standard type Key NX.E-12TD TXZ KTS Telephone NX.E-12TXD TXZ KTS 12 Line keys, display type Key Telephone 6 Line keys, standard type Key NX.

E-6BTD TXZ KTS Telephone NX.E-6BTXD TXZ KTS 6 Line keys, display type Key Telephone 12 Line keys, standard type Key NX.E-12BTD TXZ KTS Telephone NX.E-12BTXD TXZ KTS 12 Line keys, display type Key Telephone NX7E-208E-A1 2-Trunk/8-extension card NX7E-008E-A1 8-extension card NX7E-4PFU-A1 NX7E-8DHEXU-A1 NX7E-8RGU-A1 NX7E-8SMDR-A1 NX7E-8SMCID-A1 NX7E-8CID ADAPTOR NX.E-24DL TXZ DLS NX.E-24BDL TXZ DLS NT-S-D6 NVM-2 Model 1 NVM-2 Model 2 NVM-22 Voice Mail I/F DX2E-32i/NX7E BATTERY BOX 4 PF transfer card Doorphone I/F, relay contacts EXMOH/BGM input, EXP output Ringer unit for Single Line Telephone SMDR interface card 1st Model. Modular station cable included. 24 2nd Model. Modular station cable included. 2 1 1 1 4 power failure transfer circuits for SLT.

Music sources are required for EXMOH, BGM. 1 pce. for a system when SLT is connected. Needed to use SMDR printer. Needed to use CallerID/SMDR 1 set for 8 Trunk lines Complied with Bellcore Spec. Connected to display type key telephone. 8DHEXU is required. 1 Voice Mail I/F is required for 2 ports. 1 Voice Mail I/F is required for 2 ports. 1 Voice Mail I/F is required per port.

Required for VM connection NP2.6 or equivalent batteries are required. 1 Caller-ID/SMDR interface card Caller-ID adapter 24 key DLS Console for 1st Model Key Telephone (used as DSS Console) 24 key DLS Console for 2nd Model Key Telephone (used as DSS Console) 2-wire doorphone box Voice Mail with 2 ports, 2 hour voice storage, 50 mailboxes. Voice Mail with 4 ports, 4 hour voice storage, 50 mailboxes. Voice Mail with 2-4 ports, 25 hour voice storage, 50-100 mailboxes.

Voice Mail Interface Unit External backup battery box 1 3 2 As needed As needed As needed 1 ¾ 2-6 ¾ System Configuration (TX-Z 824) Name NX.E TXZ W.M.K NX.E TXZ ABB.

CARD SET DX.E ABB. CARD SET Description Wall-mount bracket Pull-out type abbreviated dial number card (20 pcs) Stand type abbreviated dial number card (20 pcs) Quantity Remarks /System As needed As 1 pce. per key telephone. needed As needed NOTE: The above list shows composition of a system with full capacity. ¾ 2-7 ¾ System Configuration (TX-Z 1232/2464) Name Description Quantity /System 1232 2464 Remarks NX.E-2464M TXZ ME NX7E-12MB NX7E-12PS NX7E-24POWU NX7E-24EPMB-A1 NX7E-12PS NX7E-24CPU-B1 TX-Z 1232/2464 Main Equipment Basic mother board Power supply unit DC/DC power supply, battery charger Expansion mother board for 2464 Expansion power supply unit for 2464 System main processing unit 1 1 Factory equipped units 1 1 1 1 BGM and EXMOH input, 2 relay contacts, and CallerID software included. Can not be installed to Slot No.4 and No.8.

Daughter board for 24CPU Needed to use Caller-ID 1 set for 8 Trunk lines Complied with Bellcore Spec. 12 power failure transfer circuits for SLT. Common unit with TX-Z 824 NP2.6 or equivalent batteries are required. 24DHU is required. 1 Voice Mail I/F is required for 2 ports. 1 Voice Mail I/F is required for 2 ports. 1 Voice Mail I/F is required per port. Required for VM connection Connected to display type Key Telephone NX7E-408U-A1 NX300 IPM Flutter Trunk Line Incoming Call 60 IPM Flash Trunk Line Hold 120 IPM Flash DLS (1232) (2464) Trunk Line I-Hold 300 IPM Flutter Trunk Line Exclusive Hold 120 IPM Flicker Trunk Line Busy Steady ¾ 2-13 ¾ Audible Indication 1. Tone Interval Indication (KTS) Category Trunk Line Incoming Call Interval (sec) Location 600/450/16 Hz FM Trunk Line Off-Hook Signal Tone (Speaker Busy) 600/450/16 Hz FM Trunk Line Automatic Recall 600/450/16 Hz FM Three-Minute Tone 600 Hz 3 Splash Toll Restriction and Each Password Entry Failed 600 Hz 1 Splash Line Available in Trunk Queuing 600/450/16 Hz FM Paging/Doorphone Splash Tone 800 Hz 2 Splash Intercom Call (Voice) Splash Tone (MIC ON) 800 Hz 1 Splash Intercom Call (Voice) Splash Tone (MIC OFF) 800 Hz 2 Splash Intercom Signal Call 450/16 Hz AM Intercom Off-Hook Signaling Tone 450/16 Hz AM ¾ 2-14 ¾ Audible Indication Category Intercom Off-Hook Signaling Tone (DSS Console) Interval (sec) Location 450/16 Hz AM Intercom Ring-Back Tone 450/16 Hz AM Intercom Dial Tone 400 Hz Intercom Busy Tone 400 Hz Intercom DND Tone 400 Hz Intercom Unobtainable Tone 400 Hz Intercom Callback Recall 600/450/16 Hz FM Emergency Alarm 1 600 Hz (TEL) 800 Hz (EX-SPK) 600 Hz (TEL) 800 Hz (EX-SPK) Emergency Alarm 2 Alarm Clock 600 Hz Call Forward/Follow-Me Accepted 600 Hz 1 Splash ¾ 2-15 ¾ Audible Indication Category Key Touch Tone Interval (sec) Location 600 Hz 1 Splash Call Forward/Follow-Me Denied (Toll Restriction/Each Error Tone) 600 Hz 3 Splash Warning Tone when Dial Block is Set (No-LCD(TD, BTD) TEL) 600 Hz 3 Splash Automatic Repeat Dial Waiting Tone 600 Hz 2 Splash Break-In Notification Tone 400 Hz Message Playback Confirmation Tone (TX-Z 1232/2464) 400 Hz KTS Local Dial Tone 400 Hz KTS Local Busy Tone 400 Hz Long Conversation Cutoff Warning Tone 400 Hz ¾ 2-16 ¾ Audible Indication 2.

Tone Interval Indication (SLT) Category SLT Local Dial Tone 1 Interval (sec) Location 400 Hz (#78-B=0) 400 Hz (#78-B=1) SLT Local Dial Tone 2 SLT Local Busy tone 400 Hz Hold Transfer to Busy SLT 400 Hz Break-In Start Tone 400 Hz Break-In Notification Tone 400 Hz MW SLT Dial Tone (When SLT is Set MW) 400 Hz DISA SLT Dial Tone 1 400 Hz (#78-B=0) 400 Hz (#78-B=1) DISA SLT Dial Tone 2 SLT Ringer 1 (Trunk Calls/Doorphone Calls) (TX-Z 308/824) SLT Ringer 1 Trunk Calls/Doorphone Calls) (TX-Z 1232/2464) 16 Hz 16 Hz ¾ 2-17 ¾ Audible Indication Category SLT Ringer 2 (Intercom Calls/ Hold Transfer/ Recall) (TX-Z 308/824) SLT Ringer 2 (Intercom Calls/Hold Transfer/ Recall) (TX-Z 1232/2464) 16 Hz 16 Hz Interval (sec) Location Message Playback Confirmation Tone (TX-Z 1232/2464) 400 Hz Long Conversation Cutoff Warning Tone 400 Hz ¾ 2-18 ¾ PART 3 SYSTEM INSTALLATION Precaution 3-1 Installation of TX-Z 308 System 3-2 Installation of TX-Z 824 System 3-3 Installation of TX-Z 1232/2464 System Precaution Please read the following notes concerning installation and connection before installing the system.



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3-1-2 Frame Ground Connection

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..... 3-1-2 Extension Connection

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..... 3-1-2 Trunk Line Connection ..

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3-1-4 Installation of 3SMDR and Printer/PC

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... 3-1-5 Installation of 3DHEXU ..

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..... 3-1-8 After Wiring.

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.. 3-1-10 24 V DC Battery Supply ...

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..... 3-1-11 Note: Refer to PART 7 for installation of 3CIDU-A1 and 3FAXU-A1. Name and Location Overview of the Main Unit Initialization Switch
Extension 4-pin Jacks Inside View of the Main Unit Power Indicator Front Cover Trunk 2-pin Jack AC cord Ground Terminal Cable Holders Wall Mounting

1. Place the template (included) on the wall to mark the four screw positions. 2. Install the four screws (included) into the wall.

3. Hook the main unit on the screw heads. $\frac{3}{4}$ 3-1-1 $\frac{3}{4}$ Opening Front Cover 1. Loosen the screw. 2.

Slide the cover to the direction of an arrow while pressing the marked position. Frame Ground Connection IMPORTANT!!! Connect the frame of the main unit to ground. To ground Extension Connection Wire Specification The wire specification are as follows: Wire Solid wire f 0.5 mm or 24AWG Diameter of conductor Cable Two-pair twisted or quad cable Cable Length between ME and Extension For key telephone: Not exceeding 300 m (985 ft) For single line telephone: Not exceeding 1125 m (3750 ft) Use a 4-pin plug (included) to connect extension lines. There are 8 plugs to connect extensions to TEL 1 through TEL 8 jacks.

1. Lift the transparent part. 2. Insert required telephone wires into the holes in a plug. Then press the transparent part into the black part. Note: Do not strip the wires. Insert the wires all the way into the plug. Connection $\frac{3}{4}$ 3-1-2 $\frac{3}{4}$ Extension Connection For key telephone For single line telephone Modular Adapter TEL 1 Key Telephone Notes: Y The key telephones can only be connected to the TEL 1 through TEL 7 jacks. Y The single line telephones can only be connected to the TEL 3 through TEL 8 jacks. Y A power failure transfer telephone (single line telephone) must be connected to the TEL 8 jack if you want a PF transfer extension.

Y Do not connect key telephone in parallel with a single line telephone. Y You can use the cable holders to fix the wires. (See illustration on page 3-1-10) Y Bridge taps are not allowed. $\frac{3}{4}$ 3-1-3 $\frac{3}{4}$ Trunk Line Connection Wire Specification The wire specifications are as follows: Solid wire Wire f 0.5 mm or 24AWG Diameter of conductor Use a 2-pin plug (included) to connect Trunk (CO/PBX) lines.



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There are 3 plugs to connect Trunk lines to CO1 through CO3 Jacks. 1. Lift the transparent part. 2. Insert required telephone wires into the holes in a plug. Then press the transparent part into the blue part. Note: Do not strip the wires. Insert the wires all the way into the plug. To CO/PBX Line Connection Note: You can use the cable holders to fix the wires. Power Failure When the AC power fails, CO1 directly switches to the Single Line Telephone connected to TEL8 jack.

¾ 3-1-4 ¾ Installation of 3SMDR and Printer/PC IMPORTANT NOTICE: The TX-Z 308 Main Equipment can accommodate only up to 2 optional cards due to the height. 1. Disconnect the AC cord from an AC outlet. 2. Loosen the screw and remove the front cover.

3. Loosen the two screws and remove the upper housing. Installation of 3SMDR Unit For use of the Station Message Detail Recording (SMDR) feature, NX7E-3SMDR-A1 unit must be installed in the main equipment. To install this unit in the main equipment: 1. Attach the 3SMDR unit to the connector labeled EXPCN on the main unit. 2. Secure the 3SMDR unit with metal spacer (included). Metal spacer ¾ 3-1-5 ¾ Installation of 3SMDR and Printer/PC 3. After installing the 3SMDR unit, connect the printer/PC and the main equipment using a RS232C cable. Removing the knock-out panel.

To printer 4. Set the SW1 on the 3SMDR unit to the proper bit rate position. NX7E-3SMDR-A1 unit SW1 5. Y Y Y Y Set the interface conditions of the printer/PC as follows: Word length: 7 bit Parity bit: Even parity Start bit: 1 bit Stop bit length: 2 bit 6. Put the housing and cover back and secure the screws. 7. Plug the AC cord into an AC outlet, Note: If the 3DHEXU unit has been installed in the main equipment, remove the 3DHEXU unit from the main unit and install the 3SMDR unit first. Then mount the removed 3DHEXU unit on the SMDR unit. ¾ 3-1-6 ¾ Installation of 3SMDR and Printer/PC RS-232C Cable Assembly To connect SMDR and Printer/PC, RS-232C cable is needed. How to make cable, refer to the following illustration.

Cable Length: Below the 15 m ¾ 3-1-7 ¾ Installation of 3DHEXU IMPORTANT NOTICE: The TX-Z 308 Main Equipment can accommodate only up to 2 optional cards due to the height. The NX7E-3DHEXU-A1 unit provides: Y Two doorphone interface Y One external speaker interface Y One external MOH input Y One alarm input To install this unit in the main equipment: 1. Attach the 3DHEXU unit to the connector labeled EXPCN on the main unit. 2. Secure the 3DHEXU unit with metal spacer (included).

Metal spacer Note: If the 3SMDR unit has been installed in the main equipment, mount the 3DHEXU unit on the 3SMDR unit as illustrated below. 3DHEXU unit 3SMDR unit This section provides information on installing the Doorphone Boxes in TX-Z 308 system. Specifications: 150 m wire maximum of 0.5 f twisted telephone cable. 1.

Connect wires to the terminal marked R and C on the back of the Doorphone Box, and connect the other end to DH1 on the 3DHEXU unit for Doorphone Box 1 or DH2 for Doorphone Box 2. (See illustration below) ¾ 3-1-8 ¾ Installation of 3DHEXU To doorphone box 1 Holes for screws Rear view left side DH1 DH2 2. Adjust the audio level with VR3 on the 3DHEXU unit for Doorphone Box 1 or VR4 for Doorphone Box 2. Note: The relay contacts RL1 and RL2 can be used as Door Unlock device control. The device must be connected to these contacts. (See Program No.56) This section provides information on the installation of external devices to the external zone. A zone can receive Trunk Audible and Paging. Speaker can be used to broadcast these signals at the zone. External page zone can be used to provide Meet-Me Paging.

External zone has normally open contact. A relay for zone is energized when Paging amplifier is in use, including Trunk audible. Specifications: Y Output Impedance: Y Output Level: Y Maximum Output: Y Relay Contact: 600 ohms Nominal 250 mV (-10 dBm) 400 mV RMS 1.25 amps for 24 V DC resistive loads 1. Connect wires from the connector on the 3DHEXU unit labeled SPK to an amplifier for External zone. The amplifier input must match the specifications above. Attach the speaker to your amplifier. 2. Connect wires from the connector on the 3DHEXU unit labeled CTR to the device for External Zone. 3. Adjust the volume level of External Zone with VR1 on the 3DHEXU unit. ¾ 3-1-9 ¾ Installation of 3DHEXU This section provides information on installing External Music On Hold in the TX-Z 308 system. Specifications: Y Input Impedance: 600 ohms Y Input Level: Nominal 250 mV (-10 dBm) Y Maximum Input: 1 Vrms 1. Connect input from external MOH source to the connector on the 3DHEXU unit labeled EXMOH. 2.

Set SW1 strap to the EXT position. (If the External MOH is not required, set to the INT position.) 3. Adjust the output level of External MOH Source. Note: The relay contacts RL1 and RL2 can be used as MOH device control.

The remote control terminal on the device must be connected to these contacts. (See Program No. 56) This section provides information on the installation of an external alarm. An alarm can be connected to the system. Programming determines if the alarm inputs require an open or a closed circuit. Specifications: Y Loop Resistance: Less than 100 ohms. (Do not supply external power.) Y Open Resistance: More than 5 kohms. (Do not supply external power.)

NX7E-3DHEXU-A1 unit VR4 VR3 VR1 SW1 After Wiring 1.

Put the housing and cover back and secure the screws. 2. Plug the AC cord into an AC outlet. Removing the knock-out panel. The cable holder to fix the wires. ¾ 3-1-10 ¾ 24 V DC Battery Supply Connecting external battery with main equipment, the TX-Z 308 system can start even in the case of a power supply failure. If the external battery has been connected in advance, the main equipment automatically switches to battery power when a power failure occurs. Required Battery: Yuasa NP2.6-12 (rated at 12 volts, 2.6 amp-hours) 2 piece Note: A battery storage box (DX2E-32i/NX7E Battery Box) must be required to accommodate above batteries.

To install batteries in the battery box: 1. Loosen the screw and remove the front cover of battery box. 2. Insert one pair of batteries. 3. Secure batteries with tie-wraps attached. 4. Connect attached wires to the battery terminals correctly. (See the following illustration) 5. Put the cover back and secure the screws.

To connect the battery box with main equipment: 1. Disconnect the AC cord of main equipment from an AC outlet. 2. Loosen the screw and remove the front cover of main equipment. 3. Loosen the screw and remove the upper housing of main equipment. 4. Connect the battery box and the main equipment (insert plug into connector made CN201) using a cable attached with battery box. Battery cable CN201 280 mm 155 mm Red Blue Orange Battery Box ¾ 3-1-11 ¾ PART3-2 INSTALLATION OF TX-Z 824 SYSTEM Table of Contents Installing the Main Equipment.



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..... 3-2-1 The Card Locations.

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..... 3-2-2 Grounding Requirements...

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... 3-2-2 Connector Assembly

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... 3-2-3 Trunk Line Connection .

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. 3-2-3 Extension Connection

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.... 3-2-4 Cable Routing and Cramping.....

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. 3-2-5 Installing Expansion PCBs....

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.. 3-2-5 Installing DLS Console.....

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.... 3-2-5 Installing the Ringer Unit.....

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... 3-2-6 Installing the SMDR and Printer/PC ..

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.... 3-2-6 Installing 4PFU-A1 PCB.

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.... 3-2-7 Installing 8DHEXU-A1 PCB

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... 3-2-7 Installing the Doorphone Box..

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3-2-8 Installing External Paging Output

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..... 3-2-9 Installing External MOH and BGM.....

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..... 3-2-10 Installing External Alarm Sensor...

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.. 3-2-11 Lithium Battery Installation...

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..... 3-2-11 Backup Battery Connection

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..... 3-2-12 Note: Refer to PART 7-1 for installation of 8SMCID-A1 Installing the Main Equipment The Main Equipment should be installed in a clean, dry, centrally-located spot (such as a closet), where it is out of direct sunlight. The area should be free of moisture (water, dampness, etc.), and away from any equipment which might vibrate. You should choose a location that is well-ventilated, where the temperature does not exceed that of a normal room. Step 1: Before wall mounting the TX-Z 824 Main Equipment, the top cover of Main Equipment must be removed. Loosen the two screws and remove the top cover as illustration. Step 2: Tack-fasten two of the four wood screws (provided with Main Equipment) on the wall at about 430 mm apart. Step 3: Place the two holes of the main unit over the tacked wood screws to hang the Main Equipment on the wall and then fully tighten the wood screws. Step 4: Fasten another two screws on the wall through the two bottom holes of the Main Equipment. PRECAUTIONARY SAFEGUARDS 1. Never install the Main Equipment where it may be exposed to water (near a bathtub, pool, sink, etc.). 2. Never mount the Main Equipment on an unstable surface, where it might fall. 3. Never block the vents on the Main Equipment. These vents prevent the unit from overheating. Proper ventilation must be supplied for the unit. 4. Never place any objects inside the vents of the Main Equipment. 3/4 3-2-1 3/4 The Card Locations The card locations for the Main Equipment are shown in the following illustration. Grounding Requirements The Main Equipment must be properly grounded.

If circuit ground is not available at the dedicated AC outlet, the following steps should be taken: Step 1: Provide a suitable metal pipe ground in accordance with the local operating telephone company procedures. Step 2: If no metal pipe ground is available, a ground rod should be installed in accordance with the local operating telephone company procedures. Step 3: Where a ground is used, a grounding terminal is provided on the Main Equipment. 3/4 3-2-2 3/4 Connector Assembly When connecting the wiring cables to the connectors mounted on the units. Insert the wires of each cable into the connector and insert this connector to female connector on the unit (see illustration). Step 1: As indicated in the illustration, insert twisted or quad telephone wire (0.5 to 0.67 mm f) into the upper section of the connector. Ensure that the lead wire ends do not protrude beyond the rear surface of the connector. Step 2: Install the upper section of connector over the lower, and then compress the assembled connector with pliers or the like. Verify that the upper section of connector will not come off the lower section. Trunk Line Connection The Trunk (CO/PBX) lines shall be connected as illustration. Make connection from Telecom provided connector to one of the connector on the 408M-A1 or 208E-A1 units labeled COCN. The TX-Z 824 system can be installed eight Trunk lines maximum. The basic system is equipped to accept four Trunk lines. If two expansion units (NX7E-208E-A1 PCB) are installed, four more Trunk lines may be installed (see System Configuration Table). 3/4 3-2-3 3/4 Extension Connection The extension (Key Telephone and Single Line Telephone) shall be connected as illustration. Insert the connector from the extension into the female connector on the units (NX7E-408M-A1, NX7E-208E-A1, NX7E-008E-A1) labeled STCN. The basic system is equipped eight extension ports. If two expansion units (NX7E-208E-A1 and/or NX7E-008E-A1) are installed, Up to twenty-four extensions can be connected to the system. 4-conductor wiring is required for each extension when connecting Key Telephone Set to the system. Use 2-conductor wiring for each extension when connecting Single Line Telephone to the system. In other words, L (Low) and H (High) will not be used for Single Line Telephone. 3/4 3-2-4 3/4 Cable Routing and Cramping All cabling should exit from the right side of the Main Equipment. Route and cramp the cable for the Main Equipment as illustrated on the right side. Installing Expansion PCBs The NX7E-208E-A1 PCB is CO/PBX and station interface card which provides two CO/PBX interface, eight station

interface. The NX7E-008E-A1 PCB is station interface card which provides eight station interface. This two cards are required when expanding the your system. Install NX7E-208E-A1 and/or NX7E-008E-A1 PCB into the Main Equipment as illustrated below. An earth ground (ETH) connection is required whenever the NX7E-208E-A1 PCB is installed in the system.

Installing DLS Console The TX-Z 824 system can accommodate up to 3 DLS Consoles used as DSS (Direct Station Selection) console. Refer to "Installing DLS Console" in page 3-3-10. ^{3/4} 3-2-5 ^{3/4} *Installing the Ringer Unit* The ring generator source unit (NX7E-8RGU-A1 PCB) must be installed in the system when connected the Single Line Telephone as system extension. To install NX7E-8RGU-A1 PCB, mount the PCB on the right position of the Main Equipment, and connect an attached cable to the connector mounted on the NX7E-408M-A1 PCB labeled RGUCN. (See the following illustration.) *Installing the SMDR and Printer/PC* For use of the Station Message Detail Recording feature, NX7E-8SMDR-A1 PCB must be installed in the system. To install the NX7E-8SMDR-A1 in the Main Equipment: Step 1: Insert the NX7E-8SMDR-A1 PCB into the connector labeled EXPCN on the units (NX7E-408MA1, NX7E-208E-A1 or NX7E-008E-A1). Step 2: Mount the SMDR Jack and Cable Assembly on the bottom side of the Main Equipment, and then insert the cable attached with RS232C Jack into the RSCN connector on the NX7E-8SMDR-A1 PCB. Refer to RS-232C Cable Assembly in Installation of TX-Z 308 System (P 3-1-7). Step 3: After installing the NX7E-8SMDR-A1 PCB, using a RS232C cable, plug the printer/PC to the SMDR Jack Assembly. Set the interface conditions of the printer as follows: Word length: 7 bit, Parity bit: Even parity, Start bit: 1 bit, Stop bit length: 2 bit. Set SW1 to the proper Bit Rate position. ^{3/4} 3-2-6 ^{3/4} *Installing 4PFU-A1 PCB* The NX7E-4PFU-A1 PCB provides 4 power failure cut through circuits to single line telephone. To install PCB and connect the wires, refer to following a illustration. *Installing 8DHEXU-A1 PCB* The NX7E-8DHEXU-A1 PCB provides: - Connections for two alarm sensors - Connections for customer supplied MOH and BGM - Two Doorphone Box interfaces - Two external paging outputs - Two common-use relay contact Step 1: Insert the card holders attached with the PCB into the specified holes of the Main Equipment.



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Step 2: Insert a 8DHEXU-A1 PCB along the card holders. Step 3: Connect the ribbon cable attached with the PCB to the DHUCN connector on the NX7E-408M-A1 PCB. ¾ 3-2-7 ¾ Installing the Doorphone Box This section provides information on installing the Doorphone Boxes in a TX-Z 824 system.

Specifications: 150 m wire maximum of 0.5 f twisted telephone cable.

Step 1: Mount the 8DHEXU-A1 PCB on the base unit of the Main Equipment (see "Installing 8DHEXUA1 PCB" on page 3-2-7). Step 2: Connect wires to the terminal marked R and C on the back of the Doorphone Box, and connect the other end to DH1 on the 8DHEXU-A1 PCB for Doorphone Box 1 or DH2 for Doorphone Box 2. (See illustration below) Step 3: Adjust the audio level with VR3 on the 8DHEXU-A1 PCB in the Main Equipment for Doorphone Box 1 or

VR4 for Doorphone Box 2. ¾ 3-2-8 ¾ Installing External Paging Output This section provides information on the installation of external devices to the external zone(s). Each zone can receive Trunk Audible, BGM and Paging. Speakers can be used to broadcast these signals at the zone. External page zones can be used to provide Meet-Me Paging. External zones have normally open contacts. The relays for each zone are energized when Paging amplifiers are in use, including Trunk audible and BGM (if programmed). Specifications: Output Impedance: Output Level: Maximum Output: Relay Contact: 600 ohms Nominal 250 mV (-10 dBm) 400 mV RMS 1.

25 amps for 24 V DC resistive loads Step 1: Mount the 8DHEXU-A1 PCB on the base unit of the Main Equipment (see "Installing 8DHEXUA1 PCB" on page 3-2-7). Step 2: Connect wires from the connector on the 8DHEXU-A1 PCB labeled SPK1 to an amplifier for External Zone 1. The amplifier inputs must match the specifications above. Attach the speaker to your amplifier. Step 3: Connect wires from the connector on the 8DHEXU-A1 PCB labeled CTR1 to the device for External Zone 1. Step 4: Connect wires from the connector on the 8DHEXU-A1 PCB labeled SPK2 to an amplifier for External Zone 2. The amplifier inputs must match the specifications above. Attach the speaker to your amplifier. Step 5: Connect wires from the connector on the 8DHEXU-A1 PCB labeled CTR2 to the device for External Zone 2. Step 6: Adjust the volume level of External Zone 1 with VR1 on the 8DHEXU-A1 PCB.

Step 7: Adjust the volume level of External Zone 2 with VR2 on the 8DHEXU-A1 PCB. ¾ 3-2-9 ¾ Installing External MOH and BGM This section provides information on installing Background Music (BGM) and External Music On Hold in the TX-Z 824 system. Specifications: Input Impedance: 600 ohms Input Level: Nominal 250 mV (-10 dBm) Maximum Input: 1 Vrms Mount the 8DHEXU-A1 PCB on the base unit of the Main Equipment (see "Installing 8DHEXU-A1 PCB" on page 3-2-7). Installation of External Source of MOH (Music On Hold): Step 1: Connect inputs from external MOH source to the connector on the 8DHEXU-A1 PCB labeled EXMOH. Step 2: Set SW2 strap to the EXT position.

(If the External MOH is not required, set SW2 to the INT position.) Step 3: Adjust the output level of External MOH Source. Installation of BGM (Background Music) Source: Step 1: Connect inputs from external BGM source to the connector on the 8DHEXU-A1 PCB labeled BGM. Step 2: Set SW1 strap to the ON position. (If the BGM is not required, set SW2 to the OFF position.)

) Step 3: Adjust the output level of External BGM Source. ¾ 3-2-10 ¾ Installing External Alarm Sensor This section provides information on the installation of an external alarm. Two alarms can be connected to the system. Programming determines if the alarm inputs require an open or a closed circuit. Specifications: When using internal power. Loop Resistance: Less than 100 ohms. When using external DC power. Supplied DC power to system: 5 to 24 V DC with 0.65 mA to 4.5 mA.

Step 1: Connect wires form External Alarm 1 to the connector on the 8DHEXU-A1 PCB labeled ALM1. Step 2: Connect wires form External Alarm 2 to the connector on the 8DHEXU-A1 PCB labeled ALM2. NOTE: When using internal power to connect the dry contact of alarm-detecting device to the system, set SW3 for Alarm 1 or SW4 for Alarm 2 to the INPOW position. Lithium Battery Installation Locate and remove the lithium battery in the upper lefthand corner of NX7E-408M-A1 PCB. Remove the old battery and replace it with the new battery as illustration. The battery, when fully charged, will retain memory contents for approximately 24 months. Battery Type: SONY CR2032 Lithium Battery CAUTION - The battery may explode if they are not replaced properly. - Never replace with battery other than the ones specified by the manufacturer (battery of the same type or the equivalent). - Dispose of spent batteries as instructed by the manufacturer of the battery. * "B" flashes on the display of the Key Telephone when system battery is low.

Replace it with the new battery. (If battery is not installed in the system, "B" is not indicated on the display.) ¾ 3-2-11 ¾ Backup Battery Connection The Battery Backup Box provides power during a power failure. Backup Duration: Approximately 1 hr. (depending on traffic) Battery: Yuasa NP2. 6-12 (rated at 12 volts, 2.6 amp-hours) The Battery Backup Box may be wall- or floor-mounted. After mounting Battery Backup Box, follow these steps to install batteries and connect the cable: Step 1: Insert one pair of batteries. (Batteries should always be installed and replaced in pairs). Step 2: Secure batteries with tie-wraps supplied.

Step 3: Using battery terminal screws, connect the wiring to the battery terminals. Use the red wire to connect the positive terminal of one battery to the negative terminal of the other battery. (See illustration below) Step 4: With 2-wire connecting cable, connect Battery Backup Box to the connector marked "BATCN1" on the NX7E-408M-A1 PCB installed in the Main Equipment. ¾ 3-2-12 ¾ PART3-3 INSTALLATION OF TX-Z 1232/2464 SYSTEM Table of Contents Installing the TX-Z 2464 Main Equipment.....

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.. 3-3-10 Installing Optional Equipment

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. 3-3-12 TX-Z 1232/2464 Backup Battery Connection

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..... 3-3-16 Note: Refer to PART 7 for installation of 24SMCID-A1, 8CID Adaptor, and 24VAU-A1. Installing the TX-Z 2464 Main Equipment The Main Equipment should be installed in a clean, dry, centrally located spot (such as a closet), where it is out of direct sunlight. The area should be free of moisture (water, dampness, etc.), and away from any equipment which might vibrate.



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You should choose a location that is well ventilated, where the temperature does not exceed that of a normal room. Step 1: Remove the wall mounting brackets after loosening their two retaining screws. Step 2: Reinstall the mounting brackets, upside down, and screw them. Step 3: Tack-fasten two of the four wood screws (provided with Main Equipment) on the wall at about 356 mm apart. Step 4: Place the two holes of the main unit over the tacked wood screws to hang the Main Equipment on the wall and then fully tighten the wood screws. Step 5: Fasten another two screws on the wall through the two bottom holes of the Main Equipment. Note: The wall where the TX-Z 2464 Main Equipment is to be mounted must be able to support a weight of TX-Z 2464 Main Equipment.

3/4 3-3-1 3/4 The Card Locations of TX-Z 2464 ME The card locations for the TX-Z 2464 Main Equipment are shown in the following illustration. **3/4 3-3-2 3/4 TX-Z 2464 ME Grounding Requirements** The Main Equipment must be properly grounded. If circuit ground is not available at the dedicated AC outlet, the following steps should be taken: Step 1: Provide a suitable metal pipe ground in accordance with the local operating telephone company procedures. Step 2: If no metal pipe ground is available, a ground rod should be installed in accordance with the local operating telephone company procedures. Step 3: Where a ground is used, a grounding terminal is provided on the Main Equipment. **Trunk Line Connection** The Trunk (CO/PBX) lines shall be connected as illustration. Make connection from Telecom provided connector to one of the connector on the NX7E-408U-A1 units labeled COCN. The TX-Z 2464 Main Equipment can be installed twenty-four Trunk lines maximum.

One NX7E-408U-A1 unit provides four interface circuits for Trunk lines. The maximum number of NX7E-408U-A1 units that can be installed in a system is as follows: Basic System (TX-Z 1232): Expanded System (TX-Z 2464): 3 units maximum 6 units maximum (NX7E-24EPMB is required) **3/4 3-3-3 3/4 Trunk Line Connection Extension Connection** The extension (Key Telephone or Single Line Telephone) shall be connected as illustration. Insert the connector from the extension into the female connector on the units (NX7E-408U-A1, NX7E-008U-A1) labeled STCN. The TX-Z 2464 Main Equipment can be installed sixty-four extension ports maximum. A unit (NX7E408U-A1 or NX7E-008U-A1) provides eight interface circuits for extension.

The maximum number of NX7E-408U-A1 and NX7E-008U-A1 units that can be installed in a system is as follows: Basic System (TX-Z 1232): Expanded System (TX-Z 2464): 3 units of 408U-A1 (or 008U-A1) and 1 unit of 008U-A1. 6 units of 408U-A1 (or 008U-A1) and 2 units of 008U-A1. (NX7E-24EPMB is required) 4-conductor wiring is required for each extension when connecting Key Telephone Set to the system. Use 2-conductor wiring for each extension when connecting Single Line Telephone to the system. In other words, L (Low) and H (High) will not be used for Single Line Telephone. **3/4 3-3-4 3/4 Extension Connection** The max. length of the extension line cord that connects the Main Equipment and the extension is shown below. Key Telephone DSS Console Single Line Telephone Key Telephone DSS Console Single Line Telephone (DTMF/DP) 300 m (0.5 f two-pair twisted or quad cable). 1,125 m (0.5 f twisted cable). **3/4 3-3-5 3/4 Cable Routing and Cramping** All cabling should exit from the right and left side of Main Equipment. Route and cramp the cable for the Main Equipment as illustrated below. **Installing the Expansion Mother Board** The NX7E-24EPMB is the expansion mother board which increases the capacity of the system from 1232 (12 lines and 32 stations) to 2464 (24 lines and 64 stations). When you expand the system, note that the expansion power supply (NX7E-12PS) is also required. The NX7E-24EPMB can accommodate three NX7E408U-A1 units and one NX7E008U-A1 unit. Step 1: Mount the NX7E24EPMB board in the Main Equipment and joint the EXP connector to another EXP connector on the main mother board (NX7E-12MB). Step 2: Insert the four screws, and screw the board to Main Equipment. **3/4 3-3-6 3/4 Installing the Expansion Power Supply Unit** The NX7E-12PS (Expansion power supply unit) is required when the expansion mother board (NX7E24EPMB) is installed in the system. Step 1: Loosen the two screws and pull the Power Supply Box out of the Main Equipment.

Step 2: Loosen the six screws and remove the left side panel. Step 3: Mount the NX7E-24PS unit on the removed panel, and screw the unit as illustrated below. Step 4: Connect the cables as illustrated below. **Back side view Installing the Ringer Unit** The ring generator source unit (NX7E8RGU-A1 PCB) must be installed in the system when connected the Single Line Telephone as system extension. The unit connected with RGU1 connector is needed for Basic System.

When expansion mother board is installed, 2nd unit connected with RGU2 is required for single line telephone. To install NX7E-8RGU-A1 PCB, loosen the two screws and pull the Power Supply Box out of the Main Equipment, then mount the PCB on the Power Supply Box, and connect an attached cable to the connector mounted on the NX7E-24POWU PCB labeled RGU1 or RGU2. (See the following illustration.) **To Backup Battery Box 3/4 3-3-7 3/4 Installing 24DHU-A1 PCB** The NX7E-24DHU-A1 PCB is a daughter board for the NX7E-24CPU-B1. The NX7E-24DHU-A1 PCB provides: Connections for two alarm sensors Two Doorphone Box interfaces Two external paging outputs Mount the NX7E-24DHU-A1 PCB on the 24CPU-B1 and joint the DHUCN connector to another DHUCN on the NX7E-24CPU-B1 unit.

3/4 3-3-8 3/4 Installing NX7E-12PFU-A1 PCB The NX7E-12PFU-A1 and NX7E-12EPFU-A1 PCBs provide 12 power failure cut through circuits for Single Line Telephones. To install PCBs and connect the wires, refer to the illustration. **Installing NX7E-24SMDR-A1 PCB and Printer/PC** Make cables so that the printer /PC will be connected to the NX7E-24SMDR-A1 as shown in the illustration. Refer to RS-232C Cable Assembly in Installation of TX-Z 308 System (P 3-1-7). **3/4 3-3-9 3/4 Installing DLS Console** The TX-Z 1232/2464 system can accommodate DLS Console for operator use. The maximum number of DLS Consoles that can be installed in a system is as follows: Basic System (TX-Z 1232): Expanded System (TX-Z 2464): 8 set maximum 16 set maximum To install the DLS Consoles (DL DLS for 1st Model TEL): Step 1: Remove the four screws on the bottom of the telephone. Step 2: Insert ribbon cable into connector CN3 on NX7E-KYU PCB. Step 3: Replace base plate of telephone and screws on bottom. **3/4 3-3-10 3/4 Installing DLS Console** To install the DLS Consoles (BDL DLS for 2nd Model TEL): Step 1: Turn the telephone upside down and remove the four screws from each corner. Step 2: Lift the upper housing off the telephone base.

Step 3: On the lower housing, use a blunt object to remove the plastic filter piece that covers the hole for DLS connector.



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Step 4: Install the DLS connector cable from the back of lower housing. Step 5: Insert the connectors on the DLS cable into the connectors DLCN1 and DLCN2 on the NX7EANU-B PCB in the upper housing. Step 6: Reassemble the telephone and reinsert the four screws removed in step 1. Step 7: Mount the metal bracket between the telephone and DLS console and secure it with four screws provided. Remove the plastic filter DLS Console DLCN2 DLCN1

3-3-11 ¼ Installing Optional Equipment Installing the Doorphone Box: This section provides information on installing the Doorphone Boxes in TX-Z 1232/2464 system. Specifications: 150 m wire maximum of 0.5 f twisted telephone cable. Step 1: Connect wires to the terminal marked R and C on the back of the Doorphone Box, and connect the other end to DH1 on the 24DHU-A1 PCB for Doorphone Box 1 or DH2 for Doorphone Box 2. Step 2: Adjust the audio level with VR3 on the 24DHU-A1 PCB for Doorphone Box 1 or VR4 for Doorphone Box 2.

Installing External Paging Output: This section provides information for the installation of external devices to the external zone(s). Each zone can receive Trunk Audible, BGM and Paging. Speakers can be used to broadcast these signals at the zone. External page zones can be used to provide Meet-Me Paging. External zones have normally open contacts.

The relays for each zone are energized when Paging amplifiers are in use, including Trunk audible and BGM (if programmed). Specifications: Output impedance: Output Level: Maximum Output: Relay Contact: 600 ohms Nominal 250 mV (-10 dBm) 400 mV RMS 1.25 amps for 24 V DC resistive loads Step 1: Connect wires from the connector on the 24DHU-A1 PCB labeled SPK1 to an amplifier for External Zone 1, or connector labeled SPK2 to an amplifier for External Zone 2. The amplifier inputs must match the specifications above. Attach the speaker to your amplifier.

Step 2: Connect wires from the connector an the 24DHU-A1 PCB labeled CTR 1 to the device for External Zone 1, or connector labeled CTR2 to the device for External Zone 2. Step 3: Adjust the volume level of External Zone 1 with VR1, or adjust the volume level of External Zone 2 with VR2 on the 24DHU-A1 PCB. Installing External Alarm Sensor: This section provides information on the installation of an external alarm. Two alarms can be connected to the system. Programming determines if the alarm inputs require an open or a closed circuit. Specifications: When using internal power. Loop Resistance: Less than 100 ohms. When using external DC power. Supplied DC power to system: 5 to 24 V DC with 0.65 mA to 4.

5 mA. Step 1: Connect wires form External Alarm 1 to the connector on the 24DHU-A1 PCB labeled ALM1. Step 2: Connect wires form External Alarm 2 to the connector on the 24DHU-A1 PCB labeled ALM2. NOTE: When using internal power to connect the dry contact of alarm-detecting device to the system, set SW1 for Alarm 1 or SW2 for Alarm 2 to the INPOW position. ¼ 3-3-12 ¼ Installing Optional Equipment Holes for Screws ¼ 3-3-13 ¼ Installing Optional Equipment Installing External MOH and BGM: This section provides information on installing Background Music (BGM) and External Music On Hold in the TX-Z 1232/2464 system. Specifications: Input Impedance: 600 ohms Input Level: Nominal 250 mV (-10 dBm) Maximum Input: 1 Vrms Installation of External Source of MOH (Music On Hold): Step 1: Connect inputs from external MOH source to the connector on the 24CPU-B1 PCB labeled EXMOH. Step 2: Set SW2 strap to the EXT position. (if the External MOH is not required, set SW2 to the INT position.) Step 3: Adjust the output level of External MOH Source. Installation of BGM (Background Music) Source: Step 1: Connect inputs from external BGM source to the connector on the 24CPU-B1 PCB labeled BGM. Step 2: Set SW1 strap to the ON position. (If the BGM is not required, set SW2 to the OFF position.) Step 3: Adjust the output level of External BGM Source. ¼ 3-3-14 ¼ Installing Optional Equipment ¼ 3-3-15 ¼ TX-Z 1232/2464 Backup Battery Connection The Battery Backup Box provides power during a power failure. Backup Duration: 1232.

Approximately 1 hr. (depending on traffic) 2464.....Approximately 0.5 hr. (depending on traffic) Battery: Yuasa NP2.

6-12 (rated at 12 volts, 2.6 amp-hours) The Battery Backup Box may be wall- or floor-mounted. After mounting Battery Backup Box, follow these steps to install batteries and connect the cable: Step 1: Insert four batteries. (Batteries should always be installed and replaced in fours). Step 2: Secure batteries with tie-wraps supplied. Step 3: Using battery terminal screws, connect the wiring to the battery terminals. Use the red wire to connect the positive terminal of one battery to the negative terminal of the other battery. (see illustration below) Step 4: With 2-wire connecting cable, connect Battery Backup Box to the connector marked "BAT1" on the NX7E-24POWU-A PCB installed in the Power Supply Box. ¼ 3-3-16 ¼ PART 4 FEATURE DESCRIPTION AND OPERATION Table of Contents Trunk Outgoing Call ..

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.....4-1 Specified Trunk Access .

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...4-1 Last Number Dialing (LND).....

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..4-2 Saved Last Number Dialing (SLND)

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.....4-3 Abbreviated Dialing ...

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.....4-3 One-Touch Dialing ..

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4-4 Toll Restriction

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.....4-5 Walking Toll Restriction ..

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..4-6 Dial Block

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..4-7 Flash..

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..4-8 Pulse to Tone Conversion...

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..4-8 Camp-On (Trunk Queuing)

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..4-9 Key Touch Tone.....

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.....4-9 Easy Trunk Access ..

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.....4-10 Queuing Group Access...

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4-10 Automatic Repeat Dialing

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.....4-11 Loop Key Trunk Access .

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.4-12 Automatic Off-Hook Trunk Access.....

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4-13 Trunk Incoming Call

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...4-14 Incoming Trunk Access.

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.....4-14 Trunk Off-Hook Signaling...

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.....4-14 Ringing/Recall Trunk Off-Hook Access ...

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.....4-15 Night Service (Manual/Auto)

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4-15 Call Forward

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4-16 Follow Me

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...4-18 Call Pickup

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.4-19 Do Not Disturb (DND)

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.4-19 Executive DND....

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..4-19 DISA (Extension Access)...

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.....4-20 Hold/Transfer/During Conversation ...

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.....4-21 Hold ..

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.4-21 Music On Hold.....

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.....4-22 External Music On Hold ..

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4-23 Transfer

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..4-23 Park Hold (TX-Z 824/1232/2464)...

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.....4-26 Conference.....

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.....4-26 Long Conversation Warning (Three Minutes)...

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.....4-29 Long Conversation Cut-Off....

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...4-29 Break-In..

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4-29 Other Trunk Features

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.....4-31 PBX Compatibility ...

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.....4-31 Dial Mode (Tone/Pulse) Selection ..

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....4-31 Private Line

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4-32 Tenant Service

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4-32 Unsupervised Conference

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.....4-33 Call Timer .

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...4-33 DISA (Trunk-to-Trunk).....

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...4-34 Intercom Outgoing Call ..

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.4-35 Intercom Link Increase...

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....4-35 Intercom Call

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....4-35 Direct Station Selection.

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.....4-36 Intercom Off-Hook Signaling...

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4-45 Call Pickup

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..4-45 Meet-Me Answer Paging.....

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...4-46 Meet-Me Conference Paging ..

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.....4-46 Do Not Disturb (DND) ...

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..4-46 Intercom Hold.....

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4-47 Intercom Call Transfer.....

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.....4-48 Call Forward

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.....4-48 Follow Me

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.....4-48 Executive DND.

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.....4-49 Other Intercom Features

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.....4-50 BGM (TX-Z 824/1232/2464)

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.....4-50 External Paging.....

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.....4-50 Doorphone.....

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....4-50 Door Lock Control .
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4-51 Room Monitor.....

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.....4-52 DSS Console (TX-Z 1232/2464).



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.....4-53 Alphanumeric Display TEL Features ...

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.....4-57 Text Message....

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....4-57 Time and Date.

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.4-62 Name Storing (Trunk & Station).....

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.4-63 Directory Dialing.....

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.....4-64 Alarm Clock

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.4-65 Stopwatch....

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4-66 Busy Lamp Field

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...4-66 Other Features

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..4-67 Handsfree (Speaker & Microphone) ...
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4-67 Lamp Shift Mode (TX-Z 824/1232/2464)
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.4-68 Remind Call on SLT
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.....4-69 Station Message Detail Recording (SMDR) .
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4-69 Polarity Reverse Detection (TX-Z 1232/2464).....
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...4-70 DISA with Audio Guidance..
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.....4-71 External Call Forward on DISA

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..4-71 One-Touch Feature Access ...

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...4-72 Volume Control

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.....4-73 DLS Console (TX-Z 824/1232/2464) ..

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4-74 Headset Operation

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4-75 Hotel/Motel Features(TX-Z 1232/2464)

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.....4-76 Single Line Extension Dial Tone ..

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..4-85 Special User Password ...

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4-85 Voice Mail Connection (TX-Z 824/1232/2464)

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.....4-86 Caller-ID ...

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...4-86 VAU (TX-Z 1232/2464) ..
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.....4-86 DUD (TX-Z 308)
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4-86 FAX Transfer (TX-Z 308)
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4-86 List of Information Display
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..4-87 List of Dial Number Plan ...
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.....4-102 List of SMDR Printout Data....

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.4-111 DISA Operation Flowchart

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.....4-113 Trunk Outgoing Call n Specified Trunk Access DESCRIPTION: Trunk (CO/PBX) lines can be grouped into a maximum of 30 groups. The line groups assigned to each extension can be used for outgoing calls. Up to two outgoing line groups can be assigned to an extension.

An extension user can place outside calls on a particular line group by pressing Line key or dialing line number. STATION APPLICATION: KTS, SLT OPERATION: To make an outside call on a particular line: <KTS> When the trunk line appears under a Line key: 1. Lift handset or press SPK key. 2. Press a Line key.

Hear dial tone. 3. Dial telephone number. When the trunk line does not appear under a Line key: 1. Lift handset or press SPK key.

(See Note 1) 2. Dial 9 (TX-Z 824/1232/2464). Dial 90 (TX-Z 308). 3. Dial two-digit line number. Hear dial tone. 4. Dial telephone number. <SLT> 1. Lift handset.

Listen for dial tone. 2. Dial 0 or 9. (See Note 2) 3. Dial two-digit line number. Hear dial tone. 4. Dial telephone number. Note 1: If Program #75-D is 0 (No tone), press ICM key after Step 1 to seize Intercom. (TX-Z 824/1232/2464) Note 2: Program #20-D Data Automatic Trunk Access Code for SLT Dial at Step 2 0 0 9 1 9 0 Note 3: Easy Trunk Access, Queuing Group Access, Loop Key Trunk Access, Automatic Off-Hook Trunk Access features provide other ways to access a Trunk Line.

RELATED SYSTEM DATA: #02: Line Group Assignment #03-C: Common Use Line Assignment #06: Outgoing Line Access #75-D: KTS Off-Hook Mode Selection u Single Step Access DESCRIPTION: Single Step Access allows a key telephone user to obtain outside or intercom dial tone for an outgoing call in a single step, without lifting the handset or pressing the SPK key. STATION APPLICATION: KTS ¼ 4-1 ¼ Trunk Outgoing Call OPERATION: To obtain outside dial tone using Single Step Access: - Do not lift handset. 1. Press a Line key. The Line key and SPK key light.

- Dial tone comes over the speaker. To obtain intercom dial tone using Single Step Access: - Do not lift handset. 1. Press ICM key. ICM and SPK key light.

- Dial tone comes over the speaker. RELATED SYSTEM DATA: #15-E: Single Step Access u Preselection DESCRIPTION: This feature permits access to an

Trunk or ICM call by lifting the handset or pressing the SPK key within three seconds of pressing a Line or ICM key. STATION APPLICATION: KTS OPERATION: 1. Press a Line or ICM key. 2. Lift handset or press SPK key within 3 sec. - Trunk Line or Intercom is seized. RELATED SYSTEM DATA: #15-E: Single step access n Last Number Dialing (LND) DESCRIPTION: The last telephone number dialed on an outgoing call (trunk line) can be redialed. A maximum of 18 digits are stored. STATION APPLICATION: KTS, SLT OPERATION: <KTS> 1.

Lift handset or press SPK key. 2. Press a Line key. 3. Press LND key. <SLT> 1. Lift handset. 2. Dial function code. (See Note 1) 3.

Dial queuing group number. (See Note 2) Note 1: Program #20-D Data Automatic Trunk Access Code for SLT 0 0 Dial Plan 2 1 9 Note 2: Queuing group numbers are 0 to 6 (0: Any line, 1-6: Queuing group No). Dial Plan 1 Dial at Step 2 60 94 04 ¼ 4-2 ¼ Trunk Outgoing Call RELATED SYSTEM DATA:

#08-B: SLT Dial Plan Set #33: LND/Repeat Dial Hooking Time #64-C: Trunk Line Seizing Order Selection n Saved Last Number Dialing (SLND)

DESCRIPTION: This feature permits saving the last number dialed for redialing at a later time. The saved telephone number remains in memory until another is stored in it's place. STATION APPLICATION: KTS OPERATION: To place an outside call using saved last number: 1.

Lift handset or press SPK key. 2. Press a Line key. 3. Press DC key and #.

or Press One Touch key. To store dialed number as saved last number: 1. While talking on trunk line. 2. Press DC key twice before terminating a call. or Press One Touch key before terminating a call. To set One-Touch key as SLND key: 1. Press SPK key. 2. Press ICM key.

(TX-Z 824/1232/2464 Only) (See Note 1) 3. Press DC key and *. 4. Press One Touch key. 5. Press OPAC key and #. 6. Press SPK key. Note 1: If Program #75-D is 0 (No tone), skip Step 2. (TX-Z 824/1232/2464) Note 2: One Touch key #10 is set as SLND key initially.

RELATED SYSTEM DATA: Not applicable. n Abbreviated Dialing DESCRIPTION: The system provides common-use abbreviated dialing. Abbreviated

Dialing allows storage of up to 100 or 200 locations 18 digit telephone number under 2 or 3 digit codes (00 to 99 or 000 to 199). The user can select the storage quantity of Abbreviated Dial in Program #17-D. STATION APPLICATION: KTS, SLT ¾4-3 ¾4 Trunk Outgoing Call OPERATION: To place an outside call: <KTS> 1.

Lift handset or press SPK key. 2. Press an idle Line key. 3. Press DC key.

4. Dial abbreviated number. (00 to 99) or (000 to 199) <SLT> 1. Lift handset. 2. Dial function code. (See Note 1) 3. Dial queuing group number (0 to 6). (See Note 2) 4. Dial abbreviated number.

(00 to 99) or (000 to 199) Note 1: Program #20-D Data Automatic Trunk Access Code for SLT 0 0 Dial Plan 2 1 9 Note 2: Queuing group numbers are 0 - 6 (0: Any line, 1-6: Queuing group No). Dial Plan 1 Dial at Step 2 5 93 03 To store abbreviated number (Extension #10 only): 1. Press SPK key. 2. Press ICM key. (TX-Z 824/1232/2464 only) (See Note 1) 3. Press DC key and *. 4. Dial abbreviated number. (00 to 99) or (000 to 199) 5.

Dial phone number to be stored. (see Note 2) 6. Repeat steps 3 to 5. 7. Press SPK key to exit from Abbreviated Dialing entry.

Note 1: If Program #75-D is 0 (No tone), skip Step 2. (TX-Z 824/1232/2464) Note 2: You can enter pauses (TRFR key), flashes (FLASH key) and stops (CONF key) when storing a Abbreviated Dial number. Each pause, stop or flash counts as a digit when totaling the number of digits in a Abbreviated Dial number. When stop is inserted, dialing will be stopped this position and can be continued by dialing. RELATED SYSTEM DATA: #08-B: SLT Dial Plan Set #17-D: Storage Quantity of Abbreviated Dial #18-C: Abbreviated Dialing Restriction n One-Touch Dialing DESCRIPTION: One-Touch Dialing allows you to store ten of your most frequently called outside numbers as personal abbreviated dial numbers at your extension so you can call them with just a single touch.



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