Nitsuko TX Series User Guide

Table Contents

Trunk Outgoing Call

■ Specified Trunk Access

Description:
   Trunk (CO/PBX) lines can be group 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 dialling 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 (824/1232/2464).
      Dial 90 (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 (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

◆ **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

Operation:

To obtain 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.

◆ **Preselection**

Description:

This feature permits access to a 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 seconds.
   - Trunk Line or Intercom is seized.

Related System Data:
#15-E: Single Step Access.

■ **Last Number Dialling (LND)**

Description:
The last telephone number dialled on an outgoing call (Trunk line) can be redialled. 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 ley.

<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	Dial at Step 2
Dial Plan 1	-	-	60
Dial Plan 2	0	0	94
	1	9	04

Note 2:   Queuing group numbers are 0 to 6 (0: Any Line, 1-6: Queuing group No).

Related System Data:
#08-B: SLT Dial Plan Set
#33:   LND/Repeat Dial Hooking Time
#64-C: Trunk Line Seizing Order Selection

■ Saved Last Number Dialling (SLND)

Description:
  This feature permits saving the last number dialled for redialling at a later time. The saved telephone number remains in memory until another is stored in its 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 dialled 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. (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. (824/1232/2464).
Note 2: One Touch key #10 is set as SLND key initially.

Related System Data:
Not applicable.

■ Abbreviated Dialling

Description:
    The system provides common-use abbreviated dialling. Abbreviated Dialling 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

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 999).

<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	Dial at Step 2
Dial Plan 1	-	-	5
Dial Plan 2	0	0	93
	1	9	03

Note 2:   Queuing group numbers are 0-6 (0: Any line, 1-6 Queuing group No).

To store abbreviated number (Extension 10 Only):
1. Press SPK key.
2. Press ICM key (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 form Abbreviated Dialling entry.

Note 1:   If program #75-D is 0 (No Tone), skip step 2 (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 totalling the number of digits in a Abbreviated Dial Number. When stop is inserted, dialling will be stopped this position and can be continued by dialling.

Related System Data:
#08-B: SLT Dial Plan Set
#17-D: Storage Quantity of Abbreviated Dial
#18-C: Abbreviated Dialling Restriction

■ **One-Touch Dialling**

Description:
        One-Touch Dialling 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. Dial number to be stored is up to 18 digits including pauses (TRFR key), flashes (FLASH key) and stops (CONF key). The One-Touch Dial numbers are stored under the ten One-Touch keys (No.1 to No.10) as F01 to F10.

        When the number of common Abbreviated Dialling is set to 100 in Program #17-D, the memory for the remaining 100 numbers can be used for personal abbreviated dial numbers at 10 key telephones. The assigned Key Telephone user can store up to 10 more numbers under ten One-Touch keys as F11 to F20. When dialling, the user must press OPAC key before pressing an One-Touch key.

Station Application:
KTS

Operation:
<ALL KTS>
To place an outside call:
    1. Seize a Trunk line.
    2. Press On e Touch key which stores desired phone number.

To store a One Touch Dial number:
1. Press SPK key.
2. Press ICM key (824/1232/2464 only) (See note 1).
3. Press DC key and ✶
4. Press a One-Touch key to store a phone number.
5. Dial phone number to stored (One-Touch Key No.1 to No.10 store numbers in F01-F10).
6. Repeat steps 3 to 5.
7. Press SPK key to exit from One-Touch Dialling entry.

<Only assigned KTS>
To place an outside call:
1. Seize a Trunk line.
2. Press **OPAC** key.
3. Press One-Touch key which stores the desired phone number.

To store a One-Touch Dial number:
1. Press SPK key.
2. Press ICM key (824/1232/2464 only) (See note 1).
3. Press **OPAC** key.
4. Press DC key and ✶
5. Press a One-Touch key to store a phone number. (One-Touch Key No.1 to No.10 store numbers in F11-F20).
6. Dial phone number to be stored.
7. Go to Step 3 to enter another number.
   OR
   Hang up or press SPK to finish.

To check stored One-Touch Dial number:
(On-hook condition)
1. Press CHECH key.
2. Press SPK key.
3. Press DC key and **OPAC** key.
4. Press a One-Touch key which stores the phone number.
5. Press CLEAR key to finish.

Note 1:   If program #75-D is 0 (No Tone), skip step 2 (824/1232/2464).
Note 2:   If the above operations are taken without pressing OPAC key, the numbers stores in F1-F10 are called.

Related System Data:
#17-D: Storage Quantity of Abbreviated Dialling.
#75-B: Personal Abbreviated Dial.

Toll Restriction

Description:
  Toll Restriction determines extension's ability to make calls. Each extension can be assigned on of the following six classes per mode (Day/Night). Toll Restriction Class A is the highest and the Class F is the lowest.

Class-A: No dialling restrictions.
Class-B: Dials are restricted by DATA-B except dials matching PBX extension call or DATA-F.
Class-C: Dials are restricted by DATA-D2 except dials matching PBX extension call, DATA-C, or DATA-F.
Class-D: Dials are restricted by DATA-D2 or DATA-D1 except dials matching PBX extension call or DATA-F.
Class-E: Dials are restricted all outgoing Trunk calls except dials matching PBX extension call or DATA-F.
Class-F: Intercom calls only.

The DATA (restricted/permitted codes and number length limit) within the Classes must be entered in programming.
If there are PBX lies, PBX access code must be assigned in programming in order for Toll Restriction to be properly applied.
Toll restrictions are not applied to lines programmed as Unrestricted Lines.
When the system is placed in night mode by Night Service feature, the Toll Restriction class assignment for night mode is activated.

Station Application:
KTS, SLT

Operation:
  When an extension user dials a call that is not allowed by the assigned Class, the system automatically disconnects the line.

Related System Data:

#03-D:	Unrestricted Lines
#18-C:	Abbreviated Dialling Restricted
#35-A:	Toll Restriction Class (Day)
#35-B:	Toll Restriction Class (Night)
#36:	Permitted Codes (Data-C)
#37:	Number Length Limit (DATA-D1)
#38:	PBX CO Access Codes (DATA-E)
#39:	Common Unrestricted Codes (DATA-F)
#40:	Class-B Restricted Codes (DATA-B)
#41:	Class-C/D Restricted Codes (DATA-D2)

■ **Walking Toll Restriction**

Description:
Walking Toll Restriction lets you temporarily override an extension's dialling programmed security code at that extension. Dialling the code overrides the restrictions set up in Toll Restriction.

Station Application:
KTS, SLT

Operation:
<KTS>
1. Lift handset.
2. Press an idle Line key.
3. Press OPAC key.
4. Press DC key.
5. Dial security code.
6. Dial phone number.

<SLT>
1. Lift handset.
2. Dial 07 (or 97). => (See note)
3. Dial security code.
4. Dial 9 (or 0). => (See note)
5. Dial telephone number.

Note:

Program #20-D Data	Automatic Trunk Access Code for SLT	Dial at Step 2	Dial at Step 4
0	0	97	0
1	9	07	9

Related System Data:
#42:   Walking Toll Restriction Security Code
#43:   Toll Restriction Class Assignment on Security Code

■ **Dial Block**

Description:
      Dial Block allows you to temporally lock your extension by entering a 4 digit personal code so that other users can not make outside calls from your extension. To have this facility each extension has to be assigned by assigned by system programming.
At No Display Key Telephones, 3-Splash tone is emitted from built-in speaker if somebody tries to make an outside call while Dial Block is set.

Station Application:
KTS, SLT

Operation:
To set Dial Block:
<KTS>
    1. Press SPK key.
    2. Press ICM key (824/1232/2464 only) (See note 1)
    3. Dial ✶, # (824/1232/2464)
       Dial 95 (308)
    4. Dial 4-digit personal code (See note 3).
    5. Dial ✶
    − Confirmation tone when effective.
    − Error tone when not effective.

<SLT>
    1. Lift handset
    2. Dial function code (See note 2)
    3. Dial 4-digit personal code (See note 3)
    4. Replace handset

Note 1:   If program #75-D is 0 (No Tone), skip Step 2 (824/1232/2464).
Note 2:

	Program #20-D Data	Automatic Trunk Access Code for SLT	Dial at Step 2
Dial Plan 1	-	-	65
Dial Plan 2	0	0	955
	1	9	055

Note 3:   You can dial any number as a personal code.

To cancel Dial Block:
<KTS>
1. Press SPK key.
2. Press ICM key (824/1232/2464 only) (See note 1)
3. Dial ✱, # (824/1232/2464)
   Dial 95 (308)
4. Dial 4-digit code which is entered when setting Dial Block
5. Dial #
− Confirmation tone when effective
− Error tone when not effective

<SLT>
1. Lift handset
2. Dial function code (See note 2)
3. Dial 4-digit personal code which is entered when setting Dial Block
4. Replace handset.

Note 1:　　　　　　　　If program #75-D is 0 (Not tone), skip Step 2 (824/1323/2464).
Note 2:

	Program #20-D Data	Automatic Trunk Access Code for SLT	Dial at Step 2
Dial Plan 1	-	-	66
Dial Plan 2	0	0	956
	1	9	056

Related System Data:
35-C:　　　　　　Toll Restriction Class (Dial Block)

■ **Flash**

Description:
　　　　The flashing time can be set by system program (#26) to two different timings for CO lines and PBX lines. To send a flashing signal, just depress the FLASH key after seizing a CO/PBX line.

Station Application:
KTS, SLT

Operation:
<KTS>
1. On the CO/PBX line.
2. Press FLASH key.

\<SLT\>
(On the CO/PBX line)
1. Flash Hook-switch
2. Dial 90

Related System Data:
#26:   Flash Timer

■ **Pulse to Tone Conversion**

Description:
      Pulse to Tone Conversion allows you to change from Pulse to Tone dialling mode to access services such as computer-accessed long distance service.

Station Application:
KTS

Operation:
1. Dial phone number (pulse mode)
2. Dial #
3. Dial phone number (Tone mode)

Related System Data:
#01-B: Dial Mode

■ **Camp-On (Trunk Queuing)**

Description:
      When all trunk lines in a particular Queue Group are busy, Camp-On puts an extension user on a "waiting list" for an available line in the group. As soon as a line becomes free, the user's phone rings and a Line key flashes. Up to eight extension users can activate Camp-On in the same Queue Group. When signalled, the user must answer within 20 seconds, otherwise the line rings the extension on the "waiting list".

Station Application:
KTS, SLT

Operation:
To use Camp-On:
<KTS>
1. Lift handset
2. Press ICM key (824/1232/2464 only) (Se note)
3. Press HOLD key.
4. Dial Queuing Group number (0-6) (0: Same Group, 1-6: Group No.)
− If you hear busy tone, the extension can not use Camp-On for that group
5. Replace handset

<SLT>
1. Place an outside call. Hear busy tone
2. Dial Queuing Group number (0-6) (0: Same group, 1-6: Group No.)
3. Replace handset

Note: If program #75-D is 0 (No tone), skip step 2 (824/1232/2464)

When Camp-On rings an extension:
<KTS>
1. Lift handset
2. Press the flashing Line key.

<SLT>
1. Lift handset.

Related System Data:
#01-C: Queuing Group – Line Assignment
#16-B: Recall Trunk Off-Hook Access
■ **Key Touch Tone**

Description:
        The Key Touch Tone feature allows a toe to be emitted from the built-in speaker each time a Line, One-Touch or dial pad key is pressed. The tone confirms the key was fully pressed.

Station Application:
KTS

Operation:
To activate Key Touch Tone:
− Don not lift handset
1. Dial ✳

To cancel Key Touch Tone:
- Do not lift handset
1. Dial ✳. Final Key Touch Tone is heard.

Related System Data:
#13-A: Key Touch Tone

■ **Easy Trunk Access**

Description:
     Easy Trunk Access lets an extension user access an outgoing line without pressing Line key or dialling a two-digit number. A single-digit code automatically accesses an outgoing outside line from smaller number, large number, or rotated number

Station Application:
KTS, SLT

Operation:
To access the first available outgoing line:
<KTS>
1. (On-Hook and Speaker off condition)
2. Dial 0. a line is seized and dial tone comes over the speaker

<SLT>
1. Lift handset
2. Dial 9 or 0 (Refer to Program #20-D)

Related System Data:
#15-C: Automatic Trunk Access
#20-D: Automatic Trunk Access Code for SLT
#64-C: Trunk Line Seizing Order Selection

■ **Queuing Group Access**

Description:
     Queuing Group Access lets an extension user access the first available outgoing line in a Queuing Group without pressing a Line key or dialling a two-digit line number. A single-digit code automatically accesses an outgoing line from small number, large number, or rotated number.

Station Application:
KTS, SLT

Operation:
To access the first available line in a Queuing Group:
<KST>
1. press SPK key
2. Press ICM key (824/1232/2464) (See note)
   Dial 91 (308)
3. Dial Queuing Group number (1-6). A line is seized and dial tone comes over the speaker.

<SLT on Dial Plane 1)
1. Lift handset
2. Dial Queuing Group number (1-4)

<SLT on Dial Plan 2>
1. Lift handset
2. Dial 06 or 96 (Refer to #20-D)
3. Dial Queuing Group number (1-6)

Note: If program #75-D is 0 (No Tone), skip step 2 (824/1232/2464)

Related System Data:
#01-C:	Queuing Group – Line Assignment
#15-C:	Automatic Trunk Access
#20-D:	Automatic Trunk Access Code for SLT
#64-C:	Trunk Line Seizing Order Selection

■ **Automatic Repeat Dialling**

Description:
        If an extension user places a trunk call that is busy or unanswered, they can have Automatic Repeat Dialling try again later on. The user doesn't continually have to try the number again – hoping it will go through. Automatic Repeat Dialling automatically retries it until the called party answers. Moreover, while Automatic Repeat Dialling is set (waiting, busy or no-answer). Hurry-Up operation can be taken place for immediate redial.
While Automatic Repeat Dialling is set (waiting condition), 2-Splash tone (Mute-tone) is emitted from built-in Speaker in 5 second cycle.

Station Application:
KTS

Operation:
To use Automatic Repeat Dialling:
1. Place outside call.
   – Listen for busy tone or ring-no-answer
2. Press OPAC key
3. Dial 1
4. Replace handset or press SPK key
   – The system periodically redials the call.

To cancel Automatic Repeat Dialling:
1. Lifting the handset cancels Automatic Repeat Dialling

To use Hurry-Up operation:
1. Press OPAC key
2. Dial 2

Repeat Dialling and Hurry-Up Operation can be stored under One-Touch key.
On TX-Z 208 system, One-Touch Key No.99 is initially set as Automatic Repeat Dial key.

Related System Data:
#01-C: Queuing Group – Line Assignment
#33:   LND/Repeat Dialling Hooking Time
#34:   Repeat Dial Timers

■ **Loop Key Trunk Access**

Description:
        User can assign only one Loop Key to one undefined Line keys. The Loop Key should be assigned on an unused Line key in advance by using "one-Touch Feature Access". This feature permits access to an outgoing line by pressing a Loop Key. The trunk line is seized from small number, large number, or rotated number. This key provides user advantage as follows:
   – When the number of Trunk lines connected to the system is larger than the number of Line Keys at user's KTS, user can seize all the Trunk line by pressing the Loop Key.
   – User can use the Park Hold effectively.

There are 6 types of LED indication.
   – System Hold: 0.1 sec On/ 0.1 sec Off (BLF: Green)
   – Exclusive Hold: 0.1 sec On/ 0.1 sec Off/ 0.1 sec On/ 0.7 sec Off (BLF: Green)
   – I-Use: Light (BLF: Green)

- Conference standby:0.1 sec On/ 0.1 sec Off/ 0.1 sec On/ 0.7 sec Off (BLF: Green)
- Idle: Extinguish
- All line are Busy: Light (BLF: Red)

Station Application:
KTS

Operation:
To seize a Trunk line:
1. Press Loop Key (Dial Tone is heard)
* Refer to One-Touch Feature Access for how to assign Loop Key.

To answer the incoming call:
(This feature is available for KTS which is allowed Ringing Trunk Off-Hook Access Feature)
1. Incoming call to a Trunk line (Ringing)
2. Lift handset (Loop key lights Green)

Related System Data:
#64-C: Trunk Line Seizing Order Selection

■ **Automatic Off-Hook Truck Access**

Description:
        The assigned extension users can seize an idle Trunk Line by only lifting the handset. The operations such as pressing Line key or dialling Trunk Access Code become unnecessary. This feature is useful for Key Telephone users who mainly makes outside calls or to connect Fax Machines (Modems) instead of Single Line Telephones.

Station Application:
KTS, SLT

Operation:
<KTS>
1. Lift Handset or press SPK key (An idle Trunk Line will automatically be seized)
Note 1:   If all Trunk Lines are busy, no tine will be heard.
Note 2:   This disables the user to seize Intercom after lifting handset. **Press ICM key before lifting handset to seize Intercom.**
Note 3:   Lifting the handset when the extension is ringing answers Trunk Line or Intercom call.

<SLT>
1. Lift handset (An idle Trunk Line will automatically be seized)
Note 1:   If all Trunk Lines are busy, Busy Tone will be heard.

Note 2: Assigned SLT user **can not place Intercom Calls**. However, they can receive incoming Intercom Call and transferred Trunk Line Call. Transferring Trunk Line calls to another extension is possible.

Related System Data:
#64-C: Trunk Line Seizing Order Selection
#75-C: SLT Automatic Trunk Access
#75-D: KTS Off-Hook Mode Selection

■ **Account Code**

Description:
Account Code is useful to keep track of expenditures. Extension user dials Account Code before making outside calls. This code is shown on the SMDR print out.

Station Application:
KTS, SLT

Operation:
To enter the Account Code:
<KTS>
1. Seize an idle Trunk Line (Hear Dial Tone)
2. Dial ✶
3. Dial Account Code (Max. 8 Digits)
4. Dial ✶
5. Dial Telephone Number

<SLT>
1. Seize an idle Trunk Line (Hear Dial Tone)
2. Flash Hook-switch
3. Dial 99
4. Dial Account Code (Max. 8 Digits)
5. Flash Hook-switch
6. Dial Telephone Number

Related System Data:
#57-D: KTS Account Code
#58-B: SLT Account Code

■ Incoming Trunk Access

Description:
      Trunk lines can be grouped into a maximum of 30 groups. The line groups assigned to each extension can access for incoming calls and the audible assignments (day and/or night mode ringing) for the extensions. Up to two incoming line groups can be assigned to an extension. An extension user can answer an incoming call on a particular line group only if the extension has Incoming Trunk Access to that group. When an extension is assigned incoming access to a line group, the lines in the group appear under the Line Keys (KTS).

Station Application:
KTS, SLT

Operation:
<KTS>
To answer an outside call by Direct Pickup:
1. Lift handset or press SPK key.
2. Press flashing Line key.

To answer an outside call by Dial Pickup:
1. Lift handset or press SPK key (See note).
2. Dial 96 (824/1232/2464).
   Dial 92 (308).
Note: If program #75-D is 0 (No Tone), press ICM after Step 1 to seize Intercom (824/1232/2464).

<SLT>
1. Lift handset.
2. Dial 06 (or 96) => Check your dial plan.

Related System Data:
#02:   Line Group Assignment
#03-C: Common Use Line Assignment
#07:   Incoming Trunk Access/Audible
#16-A: Ringing Trunk Off-Hook Access

■ Trunk Off-Hook Signalling

Description:
 Trunk Off-Hook Signalling provides an extension user with an audible indication of an incoming Trunk call while already on a call: the busy extension user hears muted ringing if on a handset call or one short burst tones (0.5s On/15s Off) if on a Handsfree call.

Station Application:
KTS

Operation:
To answer a Trunk Off-Hook signal:
1. Press HOLD to put an outside call in progress on hold or hang up the call in progress. Intercom calls must be hung up since they cannot be put on hold.
2. Press the flashing Line key.

Related System Data:
#04-B: Trunk Off-Hook Signalling.

■ Ringing/Recall Trunk Off-Hook Access

Description:
 Ringing Trunk Off-Hook Access allows a ringing outside call to be answered by judt lifting the handset; a Line key does not have to be pressed. Recall Trunk Off-Hook Access lets a recalling (re-ringing) line be answered by just lifting the handset.

Station Application:
KTS, SLT

Operation:
1. Lift handset

Related System Data:
#16-A: Ringing Trunk Off-Hook Access
#16-B: Recall Trunk Off-Hook Access

■ Night Service (Manual/Auto)

Description:
      Night Service puts the night audible (ringing) assignment (Program #7) into effect manually or automatically. Incoming calls on a specific line group will ring at extensions that are assigned night audible for that line group. Night Service remains set even if the system power is turned off.

Night Service is available on a system basis or incoming line group basis according to Program #15-B.
1. Night audible assignments go into effect at all extensions in the system. Day audible assignments are ignored. The extension #10 can activate this Night Service (NT) mode unless DSS Console is connected.
On the TX-Z 1232/2464 System, Night Service assignment can be activated by the DSS Console. If DSS Console is not connected, the extension #10 can activate this mode assignment.
2. Night audible assignments go into effect for the extensions that have the same primary incoming line group as the extension that activates the NT mode. Extensions with a different primary incoming line group receive ringing according to their day audible assignments. Any extension can activate this mode.
This NT mode can be activated by any extension in each came primary incoming line group.

Automatic Mode Switching
      Automatic Mode Switching (Program #79) allows to switch Day/Night mode according to pre-programmed time routine for the system. When automatic Mode Switching places the system in Night Mode, TRFR blinks red at all key telephones. If the system mode is switched manually at No.10 telephone or DSS, it overrides Automatic Mode Switching assignment.

Station Application:
KTS, SLT, External Speaker, Doorphone

Operation:
To activate Night Service:
<KTS>
1. Press SPK key.
2. Press ICM key (824/1232/2464 only) (See note)
3. Press TRFR key.
4. Dial # TRFR lights red.
5. Hang up.

To activate Night Service:
<DSS>
1. Press NT key (LED lights red).

To cancel Night Service:
<KTS>
1. Press SPK key.
2. Press ICM key (824/1232/2464) (See note)
3. Press TRFR key.
4. Dial # TRFR extinguishes.
5. Hang up.

To cancel Night Service:
<DSS>
1. Press NT key (LED extinguishes)

This feature can be stored under the One-Touch key.

When NT mode 1 is enabled, the TRFR key lights steadily at all KTS's. When NT mode 2 is enabled, the TRFR key lights steadily at the activating extension and at all other KTS's with the same primary incoming line group.

Note: If program #75-D is 0 (No Tone), skip step 2 (824/1232/2464)

Related System Data:
#07:   Incoming Trunk Access/Audible
#15-B: Night Service
#79:   Automatic Mode Switching Time

■ **Call Forward**

Description:
        Call forward reroutes an extension user's incoming outside calls so they ring at a different extension. An extension user who activates Call Forward does not lose access to incoming calls. Incoming access is shared with the receiving (destination) extension, but only the destination extension rings. Calls cannot be rerouted to an extension in Do Not Disturb. There are four types of Call Forward:

−   **Call Forward Immediate**
    All calls transferred immediately to the destination.
−   **Call Forward when Busy**
    Calls are transferred only when the extension is busy.
−   **Call forward when Unanswered**
    Calls are transferred only if they are unanswered, and both the destination and the transferring extension rings.
−   **Call Forward when Busy/Unanswered**
    Calls are transferred only when the extension is busy or unanswered, and both the destination and the transferring extension ring.

Station Application:
KTS, SLT

Operation:
To activate Call Forward:
<KTS>
1. Press SPK key.
2. Press ICM key (824/1232/2464) (See note 1).
3. Press TRFR key.
4. Dial destination extension number.
5. Dial option code (0-3) (See note 3).
− One short beep sounds as confirmation.
− One long beep means calls cannot be rerouted to that extension (824).
− 3 Splash tone means calls cannot be rerouted to that extension (1232/2464).
6. Press SPK key.

<SLT>
1. Lift handset.
2. Dial function code (See note 2)
3. Dial Destination extension number.
4. Dial option code (0-3) (See note 3).
5. Hang up.

Note 1:   If program #75-D is 0 (No Tone), skip step 2 (824/1232/2464).
Note 2:

	Program #20-D Data	Automatic Trunk Access Code for SLT	Dial at Step 2
Dial Plan 1	-	-	63
Dial Plan 2	0	0	953
	1	9	053

Note 3:   Option codes are as follows:
0 => Call Forward Immediate
1 => Call Forward when Busy
2 => Call Forward when Unanswered
3 => Call Forward when Busy/Unanswered

To cancel Call Forward (at originating and destination extension):
<KTS>
1. Press SPK key.
2. Press ICM key (824/1232/2464 only) (See note 1)
3. Press TRFR key twice.
4. Press SPK key.

<SLT>
1. Lift handset.
2. Dial function code (See note 2).
3. Hang up.

Note 1: If program #75-D is 0 (No Tone), skip Step 2 (824/1232/2464)

Note 2:

	Program 320-D Data	Automatic Trunk Access Code for SLT	Dial at Step 2
Dial Plan 1	-	-	69
Dial Plan 2	0	0	953
	1	9	053

Related System Data:
#28: Unanswered Time

■ Follow Me

Description:
    When an extension user is away from his/her extension and has to use another extension, Follow Me reroutes the extension user's incoming outside calls to that extension. There are four types of Follow Me same as Call Forward.

− **Follow Me Immediate**
All calls transferred immediately to the destination.
− **Follow Me when Busy**
Calls are transferred only when the extension is busy.
− **Follow Me when Unanswered**
Calls are transferred only if they are unanswered, and both the destination and the transferring extension ring.

Station Application:
KTS, SLT

Operation:
To activate Follow Me (at another extension):
<KTS>
1. Press SPK key.
2. Press ICM key (824/1232/2464 only) (See note 1).
3. Press TRFR key and dial 0.
4. Dial originating extension number (your extension number).
5. Dial option code (0-3) (See note 3).
– One short beep sounds as confirmation.
– One long beep means calls cannot be rerouted to that extension. (824).
– 3 Splash tone means calls cannot be rerouted to that extension (1232/2464).
6. Press SPK key.

<SLT>
1. Lift handset.
2. Dial function code (See note 3).
3. Dial originating extension number (your extension number).
4. Dial option code (0-3) (See note 3).
5. Hang up

Note 1:   If program #75-D is 0 (no Tone), skip step 2 (824/1232/2464)
Note 2:

	Program #20-D Data	Automatic Trunk Access Code for SLT	Dial at Step 2
Dial Plan 1	-	-	630
Dial Plan 2	0	0	9530
	1	9	0530

Note 3:   Option codes are as follows:
0 => Follows Me Immediate
1 => Follow Me when Busy
2 => Follow Me Unanswered
3 => Follow Me when Busy/Unanswered

To cancel Follow Me (at originating and destination extension):
<KTS>
1. Press SPK key.
2. Press ICM key (824/1232/2464) (See note 1)
3. Press TRFR key twice.
4. Press SPK key.

<SLT>
1. Lift handset.
2. Dial function code (See note 2).
3. Dial originating extension number (your extension number).
4. Dial option code (0-3) (See note 3)
5. Hang up.

Note 1: If program #75-D is 0 (No Tone), skip step 2 (824/1232/2464).

Note 2:

	Program #20-D Data	Automatic Trunk Access Code for SLT	Dial at Step 2
Dial Plan 1	-	-	630
Dial Plan 2	0	0	9530
	1	9	0530

Note 3: Option codes are as follows:
0 => Follow Me Immediate
1 => Follow Me when Busy
2 => Follow Me when Unanswered
3 => Follow Mw when Busy/Unanswered

To cancel Follow Me (at originating and destination extension):

<KTS>
1. Press SPK key.
2. Press ICM key (824/1232/2464 only) (See note 1).
3. Press TRFR key twice.
4. Press SPK key.

<SLT>
1. Lift handset
2. Dial function code (See note 2).
3. Hang up.

Note 1: If program #75-D is 0 (No Tone), skip step 2 (824/1232/2464).

Note 2:

	Program #20-D Data	Automatic Trunk Access Code for SLT	Dial at Step 2
Dial Plan 1	-	-	69
Dial Plan 2	0	0	959
	1	9	059

Related System Data:
#28: Unanswered Time

■ **Executive DND**

Description:
Executive DND allows two extensions to be specially paired for the purpose of forwarding calls. The extension designated as the "executive" can forward incoming calls to the extension designated as the "secretary". Up to eight pairs can be formed. Up to all eight executive extensions can be paired with the same secretary extension, if desired. The executive extension must be programmed for a level of Do Not Disturb (DND). If, for example, DND level 1 is selected, the extension can forward its Trunk calls – access and audible – to the secretary extension. The secretary extension can reach the executive extension even while Executive DND is activated.

Station Operation:
KTS

Operation:
To activate Executive DND:
  1. Activate DND on the executive extension (See "Do Not Disturb").

To cancel Executive Call Forward:
  1. Cancel DND on the executive extension (See "Do Not Disturb").

Related System Data:
#09:   Forwarding Pairs Assignment
#13-B: Do Not Disturb

■ **DISA (Extension Access)**

Description:
        Direct Inward System Access (DISA) lets someone outside the system call in on a DISA Line and directly access an extension or access the Group Hunt feature – in each case, bypassing the system operator. In case outside caller does not dial extension number within the time which is set in Program #66-2 or called extension is busy, or called extension does not answer within the time which is set in Program #66-3, this call will be transferred to the operator's telephone (pre-assigned extension in Program #51). Attendant extension can be assigned for Day mode and Night mode respectively. He DISA line are automatically terminated within the time which is set in Program #66-3 when calls are unauthorized, or calls transferred to operator are unanswered. The DISA caller must use a DTMF telephone.

When Automatic Answer Time (Program #66-1), the system indicates LED either busy (Not to answer) or Normal Ring (OK to answer) on DISA incoming call as #64-D. When data 1 is set, "Delayed DISA Answer function can be realized".

Voice Announce/Record Unit (VAU) (Optional Item) can be used to the TX-Z 1232/2464 system as voice announce device for DISA Line. VAU unit provides guidance messages by user-recorded voice on DISA feature (for outside party) and also for extensions.

Station Application:
System

Operation:
To use DISA to call an extension or access Group Hunt:
1. Call the DISA line. The system answers with dial tone or voice recorded message.
2. Dial desired extension number or dial 8, then the Hunting Group number (0-4). Music on Hold plays until the user answers.

To reuse the DISA line when called extension is busy:
1. Dial # and ✱. Hear dial tone.
2. Dial desired extension number or dial 8, then the Hunting Group number (0-4). Music on Hold plays until the user answers.

To answer a call on a DISA Line:
1. Lift handset.
2. Press flashing Line key.

Note: In case Night Mode is set and VAU unit is installed in TXZ 1232/2464 system, Night Announcement function has the priority. If no dialling is made by the outside caller during pre-programmed period after sending Night Message, the incoming call shall be terminated automatically. If the caller dials an extension number during pre-programmed period after Night Message, the system operates as normal DISA.

Related System Data:
#03-A: DISA Line
#03-B: DISA Line Access
#08-A: Instrument Type
#30:   Voice Recorded Message Time
#51:   Attendant Station for DISA
#64-D: LED Indication for DISA Incoming Call
#66:   DISA Timers

■ Hold

◆ System Hold

Description:
      System Hold puts an outside call on Hold so that it can be picked up from any extension in the system. If the System Hold Recall program is enabled, a call left on System Hold longer than a programmed period of time re-rings the extension that placed it on Hold.

Station Application:
KTS, SLT

Operation:
To put a call on System Hold:
<KTS>
    1. Press HOLD key.
    2. Hang up. Line key flashes at this KTS and slowly at the other KTS in the system.

<SLT>
    1. Flash Hook-switch.
    2. Dial 91.
    3. Hang up.

To retrieve a call on System Hold:
<KTS>
    1. Lift handset.
    2. Press flashing Line key.

<SLT>
    1. Lift handset.
    2. Dial function code (See note).

Note:

	Program #20-D Data	Automatic Trunk Access Code for SLT	Dial at Step 2
Dial Plan 1	-	-	69
Dial Plan 2	0	0	959
	1	9	059

Related System Data:
#16-B: Recall Trunk Off-Hook Access
#22:   System Hold Recall

◆ **Automatic Hold**

Description:
        Automatic hold lets the KTS put an outside call on System Hold quickly without pressing the HOLD key in order to place an internal call. If necessary, holding operation can be ignored within the assigned timer by programming after placing an outside call. In that case, assigned extension(s) can still hold calls in spite of the setting in #87.

Station Application:
KTS

Operation:
To put an outside call on System Hold using Automatic Hold:
    1. Press the ICM key to place an extension call. The call in progress is automatically put on Hold.

Related System Data:
#77:   Extension Assignment 6
#87:   Hold Disable Timer

◆ **Exclusive Hold**

Description:
        Exclusive Hold puts an outside call on Hold at an extension so that it can only picked up from that extension. If not picked up within a programmed interval of time, a call on Exclusive Hold recall (re-rings) the extension that placed it on Hold. On KTS, if the recall is not answered, the call reverts to System Hold and can be picked up from ant extension. On SLT, if the recall is not answered, the call reverts to extension No.10 (for attendant extension of each tenant), or cut-off.

Station Application:
KTS, SLT

Operation:
To put an outside call on Exclusive Hold:
<KTS>
    1. Press HOLD key twice.
    2. Hang up. Line key flashes fast. At all other KTS, the Line key is steadily lit (busy).

<SLT>
    1. Flash Hook-switch.
    2. Dial 92.
    3. Hang up.

To retrieve a call on Exclusive Hold:
\<KTS\>
1. Lift handset.
2. Press flashing Line key.

\<SLT\>
1. Lift handset.
2. Dial function code (See note).

Note:

	Program #20-D Data	Automatic Trunk Access Code for SLT	Dial at Step 2
Dial Plan 1	-	-	61
Dial Plan 2	0	0	951
	1	9	051

Related System Data:
#15-D: Exclusive Hold
#19-B: SLT Hold Transferring
#21:   Exclusive Hold Recall

■ **Music On Hold**

Description:
        Music on Hold sends synthesized music to an outside party on System or Exclusive Hold. The system provides a synthesized melody "Home sweet home".

Station Application:
KTS, SLT

Operation:
Not applicable.

Related System Data:
Not applicable.

■ **External Music On Hold**

Description:
        An external MOH (Music On Hold) music source (e.g. radio, tape player) can be used for MOH instead of internal synthesized melody.
An optional unit for External Music On Hold is required for TX-Z 308/824 systems.

Station Application:
KTS, SLT

Operation:
Not applicable

Related System Data:
#56:   Relay Contact Assignment

■ **Transfer**

Description:
        Unannounced Transfer lets an extension user transfer (send) a call directly to another extension- that is, without first notifying the receiving extension of the call. An Unannounced Transfer rings the receiving extension. If the receiving extension does not answer within the Unannounced Transfer Recall interval, the call recalls (re-rings) the transferring extension.

Station Application:
KTS, SLT

Operation:
To make an Unannounced Transfer:
<KTS>
    1. Press ICM key, then dial extension number.
    2. Press TRFR key or hang up. (According to #80-01-E).

<SLT>
    1. Flash Hook-switch.
    2. Dial extension number.
    3. Hang up.

To receive an Unannounced Transfer:
<KTS>
    1. Lift handset. If Recall Trunk Off-Hook access is programmed, this single step answers the call.
    2. Press the flashing Line key (Key flashes green).

<SLT>
    1. Lift handset.

Related System Data:
#16-B: Recall Trunk Off-Hook Access
#23:   Unannounced Transfer Recall
#80-01-E: On-Hook Transfer

◆ **Announced Transfer**

Description:
Announced Transfer automatically puts the call on System Hold so that the transferring extension can notify the receiving extension before actually sending the call. To receive an Announced Transfer, receiving extension just wait on the line to be automatically connected to the transferred caller. Both the transferring and receiving extensions receive a "fast flash" Hold indication, making the call easy to identify while all the other KTS' see a "slow flash". If the call is not sent within the Announced Transfer Recall interval, the call then shows a "slow flash" at the receiving extension, and re-rings the transferring extension.

Station Application:
KTS, SLT

Operation:
To make an Announced Transfer:
<KTS>
1. Press ICM key, then dial extension number.
2. Announce the call.
3. Press TRFR key or hang up (according to #80-01-E)

<SLT>
1. Flash Hook-switch.
2. Dial extension number.
3. Announce the call.
4. Hang up.

To receive an Announced Transfer:
<KTS>
1. Lift handset when notified of the call.
2. Just wait on the line to be automatically connected to the transferred caller.

<SLT>
1. Lift handset to answer a call.
2. Just wait on the line to be automatically connected to the transferred caller.

Related System Data:
#24:   Announced Transfer Recall
#80-01-E: On-Hook Transfer

♦ **Attendant Reverting**

Description:
　　　　When hold transfer is failed because the destination telephone did not answer and returned back to originating telephone, then the originating telephone did not answer, the next action is selected by system data (Program #19-E) as follows:
　1) The cal will be cut off pre-set timer (Program #29) is over.
　2) The call will be transferred to the Attendant telephone.
　　　Attendant Telephone:　　　TX-Z 1232/2464　　The pair extension of DSS console, extension No.10 or operator station of each tenant.
　　　　　　　　　　　　　　TX-Z 824　　　　　Extension No.10 or operator extension of each tenant.
　　　　　　　　　　　　　　TX-Z 308　　　　　Extension No.10.
This timer (Program #29) will be activated as below condition.
　1. Put an outside call on System Hold.
　2. Announced Transfer Recall timer is released.
　3. Unannounced Transfer Recall timer is released.
　4. Exclusive Hold Recall timer is released.

Station Application:
KTS, SLT

Operation:
Not applicable.

Related System Data:
#08-D:　　　Tenant Group
#19-E:　　　SLT Hold Transferring
#29:　　　　Attendant Reverting
#52:　　　　Tenant Feature
#54:　　　　Tenant Attendant
#62:　　　　DSS Console Port Assignment

◆ **Recall Trunk Display**

Description:
　　　　Executive telephone can be set to the Recall Trunk Display Mode. When Hold Recall tone is heard, the telephone will display the held Trunk line and the telephone number.

Station Application:
KTS with LCD

Operation:
To set/reset:
1. Press SPK key.
2. Press ICM key (824/1232/2464 only) (See note)
3. Press OPAC key.
4. Press Check key.
Note:　　If program #75-D is 0 (No Tone), skip step 2 (824/1232/2464)

Related System Data:
Not applicable.

■ **Park Hold (TX-Z 824/1232/2464)**

Description:
　　　　This feature permits transferring of a call placed on temporary hold on a Park Hold key. It is used to transfer an outside call to KTS' that do not appear under a key in order to answer a call on that line. Park Hold key can be assigned on Line keys. The system has four Park Hold groups. An extension can be assigned to only one Park Hold group. A line group can contain any number of lines. An extension user can answer a call placed on Park Hold only if the extension is in the same Park Hold group. If the line seized by loop key is put on Park Hold, the loop key's LED goes off, and an idle Trunk line can be seized by pressing the Loop key.

Station Application:
KTS

Operation:
To place a call on Park Hold:
－ While on an outside call.
1. Press Park Hold key.

To answer a call on Park Hold:
1. Lift handset.
2. Press Park Hold Key.

To answer a call on Hold (the call placed on System Hold or Exclusive Hold by the extension user itself) in case the line which does not appear under Line key is held.
1. Lift handset.
2. Press ICM key (824/1232/2464 only) (See note).
3. Press OPAC key.
4. Dial 3.

Note:　　　If program #75-D is 0 (No Tone), skip step 2 (824/1232/2464).

Related System Data:
#08-E:　　　Park Hold Group
#55:　　　Park Hold Key Assignment

■ **Conference**

◆ **Add-On Conference**

Description:
　　　Add-On Conference lets an extension user establish an outside call and then add up to five other inside parties to the conversation. If Multi-Line Conference is enabled in programming, a second outside call can be added to the conversation.

Station Application:
KTS, SLT

Operation:
<Method 1>
To establish an outside call:
<KTS>
1. Establish an outside call.
2. Press CONF key.
3. Press ICM key.
4. Dial extension number of invited party. This party must answer using the handset.
5. Press CONF key. Conference established. To add more inside parties, repeat steps 2-5.

<SLT>
1. Establish an outside call.
2. Flash Hook-switch.
3. Dial 93.
4. Dial extension number of invited inside party.
5. Flash Hook-switch.
   Conference established. To add more inside parties, repeat step 2-5.

<KTS/SLT>
To join an Add-On Conference when invited:
    1. Lift handset.

<Method 2>
To establish an Add-On Conference:
<KTS Only>
    1. Establish outside call.
    2. Press CONF key.
    3. Press ICM key and call the other telephones by paging and tell the Line key number. The called parties must press the Line key to join.
    4. Press CONF key.

To join an Add-On Conference when invited:
    1. Lift handset.
    2. Press Line key.

Related System Data:
#16-D: Add-On Conference Set up Mode.

◆ **Multi-Line Conference**

Description:
    Multi-Line Conference allows an extension user to establish an outside call and then add another outside party to the conversation.
    – If desired, the user can add five more inside parties to the conversation (for a total of six inside and two outside parties).
    – Another extension user can join (break into) the Conference using Break-In as long as the total number of inside parties does not exceed six.

Station Application:
KTS, SLT

Operation:
To establish a Multi-Line Conference:
<KTS>
    1. Establish first outside call.
    2. Press CONF key. Call is put on Hold.
    3. Establish second outside call.
    4. Press CONF key. Conference is established.

<SLT>
1. Establish first outside call.
2. Flash Hook-switch.
3. Dial 94 and press 2-digit line number.
4. Establish second outside call.
5. Flash Hook-switch. Conference established.

To add inside parties to a Multi-Line Conference:
<KTS>
1. Press CONF key. Conference is put on Hold.
2. Press ICM key. Hear dial tone.
3. Dial extension number. Called party must lift the handset to answer.
4. Press CONF key. Conference is re-established. To add more inside parties, repeat steps 1-4.

<SLT>
1. Establish outside call.
2. Flash Hook-switch.
3. Dial 93.
4. Dial extension number of invited party. Called party must lift the handset to answer.
5. Flash Hook-switch. Conference established. To add more inside parties, repeat steps 2-5.

Related System Data:
#16-E: Multi-Line Conference

◆ **Internal Conference**

Description:
    Internal Conference allows a multi-party Intercom conversation. An extension user can establish an Internal Conference will up to five other extension users (i.e., for a total of six internal parties).

Station Application:
KTS, SLT

Operation:
To establish an Internal Conference:
<KTS>
1. Establish Intercom call. The called party must answer using the handset.
2. Press CONF key. Hear dial tone.
3. Dial extension number of another internal party. The called party must answer using the handset.
4. Once the called party answers, Conference is established. To add more internal parties, repeat steps 2-4.

Note: If Manual Mode (Program #80-01-D = 0) is assigned, Conference initiator must flash Hook-switch after the called party answers to established an internal conference.

To join an Internal Conference when invited:
<KST/SLT>
1. Lift handset and wait.

Related System Data:
#80-01-D: Internal Conference Mode

■ **Long Conversation Warning (Three Minutes)**

Description:
Long Conversation Warning is a signal reminder that sounds every three minutes while an extension is on an outgoing call. The signal reminder is a series of three short tones that sound over the speaker of the phone.

Station Application:
KTS

Operation:
Not applicable

Related System Data:
#18-A: Three Minutes Warning Tone

■ **Long Conversation Cut-Off**

Description:
A conversation on an external call (only Outgoing Call) can be forcibly terminated by the system after a pre-programmed period has lapsed. Before terminating the call, a warning tone will be sent to the caller within a pre-programmed period. Theis feature is enabled or disabled on an extension basis.
This feature permits the restriction of long conversations on certain extensions.

Station Application:
KTS, SLT

Operation:
Not applicable

Note 1: "Conversation Timer" (#82-1) will be activated even if the assigned extension places an outgoing call then transfers that Trunk line to another extension. (Conversation Timer will also be activated even if transferred extension is set to 0 by Program #75-E).

Note 2: In the event of Multi-Line Conference being established by the assigned extension, only outgoing Trunk line will be forcibly terminated after the pre-programmed period has lapsed. The conversation between Incoming Trunk line and the assigned extension will be maintained.

Related System Data:

#75-E: Long Conversation Cut-Off

#82:   Long Conversation Cut-Off Timer

■ **Break-In**

Description:

Break-In lets an extension user override the system's privacy feature – a key telephone user can break into an outside call at another extension, including a call on a Private Line. The intrusion may or may not be preceded by a warning tone, depending on programming (Program #-04-A), and the warning tone comes over the speaker of both extensions. A warning intrusion tone can be sent in every 2 seconds by programming (Program #78-C).

Station Application:

KTS

Operation:

1. Lift handset or press SPK key.
2. Press steadily lit line key. This breaks into the telephone conversation on that line.

Other System Data:

#04-A: Break-In

#78-C: Break-In Warning Tone

Other Trunk Features

■ PBX Compatibility

Description:
　　　The system can accommodate Central Office (CO) lines or lines from a Private Branch Exchange (PBX) already installed at the customer site. The lines are similar in the way incoming calls are answered, but different in the way outgoing calls are placed – an outgoing call on PBX line requires an access code before dialling, while an outgoing call on a CO line does not. System/telephone features are available to both types of lines, and PBX features are available to the PBX lines via the Flash feature (See Flash).

PBX Night Mode
　　　If any of the lines are from a PBX, and when the PBX is set in night mode, the lines connected to PBX are switched to real CO lines, provision is made for such things as abbreviated dialling. If you have a PBX CO Access Code programmed with a dialled number for abbreviated dialling, such as "9 pause 81448111111", when your system is in the night mode the 9 and the pause will be omitted when using the abbreviated dialling in night mode.

Station Application:
KTS, SLT

Operation:
Not applicable.

Related System Data:
#01-A:　　　Line Type
#26:　　　Flash Timer
#38:　　　PBX CO Access Codes
#01-D:　　　PBX Night Mode
#15-B:　　　Night Service

■ Dial Mode (Tone/Pulse) Selection

Description:
　　　Allows the user to select the dialling mode (tone or pulse) of each CO/PBX line.
　　　– **Tone (DTMF) Dial Mode**
　　　　　The dial signal form the extension (with tone or pulse dial mode) will be converted to TONE. TONE will then be transmitted to the CO/PBX.
　　　– **Pulse Dial Mode**
　　　　　The dial signal from the extension (with tone or pulse dial mode) will be converted to PULSE. PULSE will then be transmitted to the CO/PBX.
The assigned Dial Mode must conform to the Dial Mode of the CO lines ordered from the Telstra or the Dial Mode of the PBX.

Station Application:
KTS, SLT

Operation:
Not applicable.

Related System Data:
#01-B: Dial Mode
#17-A: Dial Pulse Sender Speed
#17-B: Make/Break Ratio
#17-C: DTMF Minimum Pause Time

■ **Private Line**

Description:
  The Private Line feature allows an incoming and/or outgoing outside line to be assigned to only one extension for exclusive use by that extension. Any outside line can be designated as a Private Line. All features involving outside lines apply to Private Lines as well – for example, calls placed and answered on a Private Line as they are on any other line.

 1) Private Line is assigned to an extension as follows:
  – A line group must be formed that contains only the Private Line. For example, if line 3 is to be used as a Private Line, line group XX must have the following entry in Program #02: 02-XX-03-03(i.e., line 03 is the lowest and highest numbered line in the group).
  – The line group must be assigned to only one extension in Program #06 and/or Program #07 for outgoing and/or incoming access, respectively.
 2) An extension programmed for the Break-In feature can break into a call on a Private Line.

Station Application:
KTS, SLT

Operation:
Not applicable.

Related System Data:
#02:   Line Group
#06:   Outgoing Trunk Access
#07:   Incoming Trunk Access/Audible

■ Tenant Service

Description:
Tenant Service allows two or more independent businesses to share the system. Each tenant can be assigned incoming and/or outgoing outside lines dedicated for its own use. Some features (Extension calls, Paging calls, Abbreviated Dialling, Attendant Reverting) can be partitioned among the tenants. Night Transfer can be independently used by each tenant if a "1" is entered in program #15-B.

Station Application:
KTS, SLT

Operation:
Not applicable.

Related System Data:
#02:   Line Group Assignment
#06:   Outgoing Trunk Access
#07:   Incoming Trunk Access/Audible
#08-D: Tenant Group
#15-B: Night Service
#52:   Tenant Feature
#53:   Tenant Abbreviated Dial
#54:   Tenant Attendant

■ Unsupervised Conference

Description:
Unsupervised Conference allows an extension user to establish a Conference with two outside parties, then hang up, leaving the outside parties connected. The extension user can later join the Unsupervised Conference if desired. The system can accommodate up to four Unsupervised Conference at a time, and each **Unsupervised Conference must be assigned an unused extension port in Unsupervised Conference Port Assignment (Program #05)**. And Multi-Line Conference must be enabled in programming.

Station Application:
KTS

Operation:
To establish an Unsupervised Conference:
1. Establish first outside call.
2. Press CONF key. The call is put on Hold.
3. Establish second outside call.
4. Press CONF key.
    - Three-party Conference is established.
5. Press CONF key.
    - Both outside parties are put on hold.
6. Hang up.
    - Unsupervised Conference is established.

To later join an Unsupervised Conference:
1. Lift handset.
2. Press either Line key of the Conference.

To terminate:
1. Established Three-party Conference.
2. Hang up.
    - Both outside lines become idle.

Note: **When both outside parties finish the call, <u>unsupervised conference must be manually terminated by the telephone which sets up the call.</u>**

Related System Data:
#05:   Unsupervised Conference Port Assignment
#16-E: Multi-Line Conference

■ **Call Timer**

Description:
        Call Timer is an automatic stopwatch features that timer outgoing outside calls on Display phones. The display changes to a stopwatch at the programmed Call Duration Start Time and the timing stops when the extension user hangs up. The display shows the duration of the call for approximately eight seconds, then changes to the date and time.

Station Application:
KTS with LCD'

Operation:
Not applicable.

Related System Data:
#25:   Call Duration Start Time

■ **DISA (Trunk – To – Trunk)**

Description:
    Direct Inward System Access (DISA) lets someone outside the system call in on a DISA LINE and place a call on a system line, bypassing the system operator. A security code is required t place an outside call (Trunk-To-Trunk), and the Toll Restriction Class assigned to a security code determines the type of calls that can be placed. The DISA caller must use DTMF telephone.
    When Trunk Line is assigned as DISA Line in Program 03-A, **DISA port can be allocated to any one of DISA line which must be programmed In Program #08-A with data 1.**
    Voice Announce/Record Unit (VAU) (Optional Item) can be used to the TX-Z 1232/2464 system as voice announce device for DISA Line. VAU unit provides guidance messages by user-recorded voice on DISA feature (for outside party) and also for extensions.

Station Application:
System

Operation:
To use DISA to place a call on a system line (Trunk-To-Trunk):
1. Call the DISA line. The system answers with dial tone or voice recorded message.
2. Dial #.
3. Dial DISA security code. Receive confirmation tone.
4. Dial Queue Group number (1-6) for desired line or dial 9, then two-digit line number. If busy tone is heard, use either procedure below to disconnect.
5. Dial telephone number including PBX Access Code if required.
6. Dial #. The call rings through.

To hang up the outside call and reuse the DISA line:
1. Dial # and ✶. Hear dial tone.
2. Dial #.
3. Dial DISA security code. Receive confirmation tone.
4. Dial Queue Group number (1-6) for desired line or dial 9, then two-digit line number. If busy tone is heard, use either procedure below is disconnect.
5. Dial telephone number including PBX Access Code if required.
6. Dial #. The call rings through.

To disconnect both the DISA line and the system line:
(Polarity Reverse Detection in not available)
1. Dial #,#.

This procedure must be used before hanging up.

(Polarity Reverse Detection is available)
2. Hang up.

Related System Data:

#03-A: DISA Line
#03-B: DISA Line Access
#08-A: Instrument Type
#30:   Voice Recorded Message Time
#31:   Trunk-To-Trunk
#46:   DISA Security Codes
#47:   DISA Security Code Extension Assignment
#48:   DISA Toll Restriction Class
#64-D: LED Indication for DISA Incoming Call
#66:   DISA Timers

Intercom Outgoing Call

■ Intercom Link Increase

Description:

        There are 2 intercom links provided in the TX-Z 308, 6 intercom links on the TX-Z 824 System, and 10 intercom links in the TX-Z 1232/2464 System. One link is reserved if Background Music is used in TX-Z 824/1232/2464 system. If a DSS console is connected to TX-Z 1232/2464, it also occupies a link. Intercom Link Increase allows unused Trunk line circuits to be used as Intercom links, providing increased Intercom calling capabilities. The Intercom Hold/Conference feature is disabled when Intercom links are increased.

System Application:
System

Operation:
Not applicable

Related System Data:
#45:   Intercom Link Increase

■ Intercom Call

Description:
      Intercom Call allows extension-to-extension conversation. The system can be programmed for one of two Intercom Signalling modes: ringing or voice announce. When voice announce is programmed, an Intercom call signals the called extension with a beep (not ringing). After the beep sounds, the caller can make a voice announcement over the speaker of the called extension.
      Regardless of the signalling mode programmed, an extension user can change it on a per call basis. For example, a ringing Intercom call cab be changed to a voice announced call by dialling a code.

Station Application:
KTS, SLT

Operation:
To place an Intercom call:
<KTS>
1. Lift handset or press SPK key (See note 1).
2. Dial extension number.
To convert a ringing call into a voice announced call, or vice versa, dial 1.

<SLT on Dial Plan 1>
1. Lift handset.
2. Dial 7, wait for dial tone.
3. Dial extension number.
To convert a ringing call into a voice announced call, or vice versa, dial 1.

<SLT on Dial Plan 2>
1. Lift handset.
2. Dial extension number.
To convert a ringing call into a voice announced call, or vice versa, dial 1.

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:   Call Monitor, Speaker-phone and Single Step Access provides ways to place intercom calls without lifting the handset.

Related System Data:
#19-B: Intercom Call Type
#75-D: Key Telephone Off-Hook Mode Selection

■ Direct Station Selection

Description:

      Direct Station Selection (DSS) provides an extension user with one-button access to other extensions in the system. Each of the ten One-Touch keys on a key telephone can be programmed to call a particular extension. The One-Touch keys can also be programmed to access any Page Zone (See Paging) or Doorphone using the steps below.

Station Application:

KTS

Operation:

To program a One-Touch key for DSS:
1. Lift handset.
2. Press ICM key (TX-Z 824/1232/2464 only) (See note).
3. Press DC.
4. Dial #.
5. Press One-Touch key.
6. Dial extension number.
   Or
   To program a Page Zone, dial 80-87 (80-85 for TX-Z 308).
   To program a Doorphone, dial 88 or 89.
7. To program more keys, repeat steps 3-6.
8. Hang up.

Note: If program is #75-D (No Tone) skip step 2 (TX-Z 824/1232/2464).

To use a DSS key:
1. Lift handset. If Single Step Access is programmed and the phone is equipped with a speakerphone, this step can be skipped.
2. Press One-Touch key set as DSS key.

To hold and transfer a Trunk call using a DSS key:
- Make conversation with outside party.
1. Press a desired One-Touch key set as DSS key.
   - The Trunk line will automatically be held, then intercom call will be established.
2. Make announcement (if desired).
3. Press TRFR key or hang up to transfer.

To display the number programmed under a DSS/One-Touch key:
- Do not lift handset.
1. Press CHECK key.
2. Press ICM key.
3. Press One-Touch key.
   - Key number displays, the stored number.
4. Press CLEAR to return to normal display.

On TX-Z 308 System, One-Touch keys 1-8 are initially programmed as DSS keys for extension 10-17, One-Touch key 10 for All Call Paging (80).
On TX-Z 824/1232/2464 System, One-Touch keys 1-9 are initially programmed as DSS for extensions 10-18, One-Touch key 10 for All Call Paging (80).

Related System Data:
Not applicable.

■ **Intercom Off-Hook Signalling**

Description:
Intercom Off-Hook Signalling lets an extension user send a signal to a busy extension. Then wait for a reply. The signal is one short burst of tones, which comes over the speaker of the busy extension. In addition, the ICM key at the busy extension flashes. The busy extension user can choose not to reply to the signal if it is inconvenient to do so.
An extension can be programmed to send Intercom Off-Hook Signalling in one of two ways: manually or automatically. The manual-type requires the user to dial a code to send the signal, while the automatic-type sends the signal automatically any time a user calls a busy extension. Intercom Off-Hook signalling cannot be sent to a busy extension when it is using Handsfree Answerback. Single Line Telephones (SLT) can send and receive the signals. Extensions programmed for Automatic Intercom Off-Hook Signalling cannot use the Camp-On or Call-back features.

Station Application:
KTS, SLT

Operation:
To manually send Intercom Off-Hook Signalling:
<KTS/SLT>
1. Place Intercom call. Hear busy tone.
2. Dial 1, hear one short burst of tones.
3. Wait for a reply. To send more tones, dial 1 again.

To use automatic Intercom Off-Hook Signalling:
<KTS/SLT>
1. Place Intercom call. When the called extension is busy, one short burst of tones is heard instead of busy tone.
2. Wait for a reply. To manually send more tones, dial 1.

To answer an Intercom Off-Hook Signalling:
<KTS>
1. Press flashing ICM. This answers the waiting call and puts an outside call in progress on Hold. This step will, however, terminate in Intercom call in progress; Intercom calls cannot be put on Hold.

<SLT>
1. Flash Hook-switch (On-Hook → Off-Hook). This answers the waiting call and terminates an Intercom call in progress.

Related System Data:
#04-C: Intercom Off-Hook Signalling

■ **Group Hunt**

Description:
        Group Hunt searches for an idle extension among all the extensions in a particular Hunting Group. Extensions are assigned to Hunting Groups in programming – for example, all the extensions in a sales department might be assigned to Hunting Group 4. when an extension user dial a Hunting Group number, the Group Hunt feature automatically calls the first idle one it finds. When all extensions in a Hunting Group are busy, a user receives busy tone and can activate Call-back or Camp-On. These features automatically connect the user to the first extension programmed into that group as soon as it becomes available. When the called extension does not answer in the pre-programmed time, the system automatically calls the next idle extension in the same Hunting Group according to the order in the Hunting Group. The caller can also call the next idle extension by manual operation. The extension to be searched first in the Hunting Group can be fixed or circulated (Program #80-2A). When all extensions in the same Hunting Group are searched and no extension answers. Group Hunt is cancelled.

Station Application:
KTS, SLT

Operation:
\<KTS>
1. Lift handset (See note 1).
2. Dial # (TX-Z 824/1232/2464).
3. Dial Hunting Group number (0-4).
    - The first idle extension is called. If the extension does not answer in the pre-programmed time, the system calls the next idle extension, or the next idle extension, or the caller can dial # to call next idle extension.

\<SLT on Dial Plan 1>
1. Lift handset.
2. Dial 7, and wait for dial tone.
3. Dial #.
4. Dial Hunting Group number (0-4).
    - The first idle extension is called. The extension does not answer in the pre-programmed time, the system calls the next idle extensions, or the caller can dial # to call the next idle extension.

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:   SLT on Dial Plan 2 can not use this feature.
Note 3:   When Program #80-2-A = 1, the extension of the first order number is called after the extension of the last order number is called first. If the Hunting Group calling timer expires, Group Hunt is used again, or Step Call (pressing #) is used.

Related System Dial:
#11:   Hunting Group
#84:   Hunting Group Calling Timer
#80-2A: Group Hunt Mode

■ **Step Calling**

Description:
        When an extension user makes an Internal call and receives a busy signal or no answer, Step Calling lets the user call the other extensions, in ascending order, by just dialling a code. For example, if extension 12 is busy, Step Calling tries extension 13. If there is no answer at extension 13, Step Calling tries extension 14, and so on. Step Calling is cancelled if it reaches an extension that is not installed.

Station Application:
KTS, SLT

Operation:
1. Place Intercom call.
   – Receive busy tone or no answer.
2. Dial #
   – Next extension is automatically called. To call the next extension, dial # again.

Related System Data:
Not applicable.

■ **Camp-On (Call-Back)**

Description:
    Instead of hanging up after calling a busy extension, Camp-On lets an extension user dial a code and wait off-hook until the extension becomes available. As soon as the extension becomes free, the call automatically goes through. Or, if the extension user hangs up after dialling the code. Call-Back automatically redials a busy extension. When the busy extension becomes free. Call-back signals (rings) the extension that activated it. When the Call-back signal is answered, an intercom call is automatically placed to the previously busy extension. Calls can be placed while waiting for the Call-back signal, and Call-back can be activated for more than one busy extension at a time. Camp-On/Call-back cannot be activated by an extension that is programmed for Automatic Intercom Off-Hook Signalling (Program #04-C). Camp-On/Call-back can also be activated when a user calls a busy Hunting Group (See Group Hunt).

Station Application:
KTS, SLT

Operation:
To activate Camp-On:
1. Place Intercom call. Hear busy tone.
2. Dial✳. Busy tone stops.
3. Do not hang up.
4. Wait for the call to go through. Ringing is heard as soon as the extension becomes free.

To activate Call-back:
1. Place Intercom call. Hear busy tone.
2. Dial✳. Busy tone stops. One beep sounds over the speaker as confirmation.
3. Hang up.

To answer the Call-back signal:
   – The signal sounds like an Intercom ring, but the ICM key does not flash.
1. Lift handset. Extension is called.

To cancel Call-back:
1. Lift handset to cancel Call-back before receiving the Call-back signal.
2. Hang up.

Related System Data:
Not applicable.

■ **Message Waiting**

Description:
      When an extension user makes an Intercom call and receives a busy signal or no answer. Message Waiting lets this user leave a visual indication (flashing MW/Indicator light) at the busy/unattended phone requesting a return call. An extension user can leave Message Waiting indications at several different extensions.

Station Application:
KTS, SLT

Operation:
To leave a Message Waiting:
<KTS/SLT>
1. Place Intercom call. Busy or no answer.
2. Dial 0. MW/Indicator flashes intermittently as confirmation (KTS).
3. Hang up.

To call the extension that left a Message Waiting indication:
<KTS>
1. Seize intercom.
2. Dial ✳ (TX-Z 824/1232/2464).
   Dial 87 (TX-Z 308). The extension is called.
3. To call the next extension that left a Message Waiting indication, dial ✳ again.

<SLT on Dial Plan 1>
1. Lift handset. (Hear Message Waiting dial tone).
2. Dial 7, wait dial tone (See note 2).
3. Dial ✳

<SLT on Dial Plan 2>
1. Lift handset (Hear Message Waiting dial Tone).
2. Dial ✳

To cancel all Message Waiting indications:
<KTS>
1. Lift handset.
2. Press ICM key (TX-Z824/1232/2464 only) (See note 1).
3. Dial✳, 0, ✳ (TX-Z 824/1232/2464).
   Dial 94, 0, ✳ (TX-Z 308).
4. Hang up.

<SLT>
1. Lift handset.
2. Dial function code (See note 3).

Note 1:　　　If Program #75-D is 0 (No Tone), skip step 2 (TX-Z 824/1232/2464).
Note 2:　　　When SLT is set this feature, the SLT's dial tone changes from continual tone to 0.4 sec.
on/0.1 sec. off.
Note 3:

	Program #20-D Data	Automatic Trunk Access Code for SLT	Dial at Step 2
Dial Plan 1	-	-	69
Dial Plan 2	0	0	959
	1	9	059

To cancel an individual Message Waiting:
<KTS only>
1. Lift handset.
2. Press ICM key (TX-Z 824/1232/2464 only) (See Note 1).
3. Dial✳, destination number, ✳ (TX-Z 824/1232/2464).
   Dial 94, destination extension number, ✳ (TX-Z 308).
4. Hang up.

<KTS with LCD only>
   − Do not lift handset −
1. Press OPAC key.
2. Press CLEAR key (See note 2).

Note 1:　　　If Program #75-D is (No Tone) skip step 2 (TX-Z 824/1232/2464).
Note 2:　　　This operation can be available at extension which MW is set. The extension has to be
only KTS with LCD.

To display the extension number that left a Message Waiting:
<KTS with LCD>
- Do not lift handset.
1. Press CHECK key.
2. Dial✳. Extension number is displayed.
3. Press Hold key to clear the Message Waiting Indication.
4. Press ICM key to call back Message Waiting originating extension.
5. To display the next extension that left a Message Waiting indication, dial ✳ again.
6. Press CLEAR to return to normal display.

Related System Data:
#80-01-A: Message Waiting

■ **Paging**

Description:
Internal Paging lets an extension user make a paged announcement over the speaker of the other telephones in the system. Any extension can make a page, but only key telephone that are assigned to Internal Page Zone can receive a page. There are four types of Internal Paging:
- **Internal Zone Paging** lets an extension user page all telephones assigned to a particular Internal Page Zone.
- **All Call Paging** lets an extension user page all Internal Page Zone.
- **Meet-Me Answer/Conference Paging** allows an extension user to page one or more persons, then reserve an Intercom circuit for 30 seconds so that the paged party/parties can reply. Meet-Me Answer lets one party reply, while Meet-Me Conference lets up to five people reply and jointly converse.

The system has four zones, numbered 1-4. The system can be programmed to broadcast All Call Paging over external speakers.

External Zone Paging allows customer-provided paging equipment (speakers, amplifiers, etc.) to be installed in large, noisy areas (zones) so that extension users can make paged announcements to these zones. In the system, two external zones are available.

Station Application:
KTS, SLT

Operation:
To make a page:
<KTS>
1. Seize Intercom.
2. Dial code.
   - 80 for All Call.
   - 81-84 for zones 1-4.
   - 85 for all external zones.
   - 86 for external zone 1 (TX-Z 824/1232/2464 only).
   - 87 for external zone 2 (TX-Z 824/1232/2464 only).
3. Make announcement.
4. Hang up.

<SLT>
1. Lift handset.
2. Dial 7, wait for dial tone (See note).
3. Dial code.
   - 80 for All Call.
   - 81-84 for zones 1-4.
   - 85 for all external zones.
   - 86 for external zone 1 (TX-Z 824/1232/2464 only).
   - 87 for external zone 2 (TX-Z 824/1232/2464 only).
4. Make announcement.
5. Hang up.

Note: If SLT set on Dial Plan 2, skip step 2.

To initiate Meet-Me Answer:
<KTS>
1. Seize Intercom.
2. Dial Code.
   - 80 for All Call.
   - 81-84 for zones 1-4.
   - 85 for all external zones.
   - 86 for external zone 1 (TX-Z 824/1232/2464 only).
   - 87 for external zone 2 (TX-Z 824/1232/2464 only).
3. Page person, announce code.
   - 80-87: TX-Z 824/1232/12464
   - 930-935: TX-Z 308
4. Dial # for Meet-Me Answer.
5. Do not hang up. Wait for a reply.

\<SLT>
1. Lift handset.
2. Dial 7, wait for dial tone (See note).
3. Dial code.
   – 80 for All Call.
   – 81-84 for zones 1-4.
   – 85 for all external zones.
   – 86 for external zone 1 (TX-Z 824/1232/2464 only).
   – 87 for external zone 2 (TX-Z 824/1232/2464 only).
4. Page person, announce code.
   – 80-87: TX-Z 824/1232/2464.
   – 80-85: TX-Z 308.
5. Dial # for Meet-Me Answer.
6. Do not hang up. Wait for reply.

Note: If SLT set on Dial Plan 2, skip step 2.

To reply to Meet-Me Answer:
\<KTS>
1. Lift handset or press SPK at a phone that received the page.
2. Press ICM key (TX-Z 827/1232/2464 only) (See note 1).
3. Dial announced code.
   – 80-87, or 88 (same zone): TX-Z 824/1232/2464
   – 930-935, or 938 (same zone): TX-Z 308.

\<SLT>
1. Lift handset at a phone that receives the page.
2. Dial function code (See note 2).
3. Dial announced code.
   – 80-87, or 88 (same zone): TX-Z 824/1232/2464
   – 80-85, or 88 (same zone): TX-Z 308.

Note 1:   If Program #75-D is 0 (No Tone) skip step 2 (TX-Z 824/1232/2464).
Note 2:

Program #20-D Data	Automatic Trunk Code for SLT	Dial at Step 2
0	0	98
1	9	08

To initiate Meet-Me Conference:
<KTS>
1. Seize ICM.
2. Dial code 81-84 for zones 1-4; 80 for All Call.
3. Page person, announce that pressing CONF key will join Meet-Me Conference.
4. Press CONF key for Meet-Me Conference.
5. Do not hang up. Wait for a reply.

To reply to Meet-Me Conference:
<KTS>
1. Lift handset or press SPK at a phone that received the page.
2. Press ICM key TX-Z 824/1232/2464 only) (See note).
3. Press CONF key for Meet-Me Conference.

Note:　　　If Program #75-D is 0 (No Tone) skip step 2 (TX-Z 824/1232/2464).

Related System Data:
#08-C:　　　Internal Page Zone
#19-A:　　　All Call to External Zone
#20-B:　　　Paging Splash Tone

■　**Flexible Station Numbering**

Description:
　　　Flexible Station Numbering allows any extension number, within a specific range, to be assigned to each telephone port in the system. Originally, extension numbers match telephone port numbers. Refer to the chart below for the range of extension number available to the telephone ports. Three-digit extension numbers are available only for TX-Z 824/1232/2464.

System Port	Available Extension Numbers (2 Digit)	Available Extension Numbers (3 Digit)
10-33	**10-79**	**100-799**

Station Application:
KTS, SLT

Operation:
Not applicable

Related System Data:
#14:　　　　Station Numbering

■ Dual Handsfree Hotline

Description:
     Dual Handsfree Hotline allows one extension to simultaneously call two other extensions. The "secretary" extension can make a voice announced intercom call over the speaker of both "executive" extensions. The users at the extensions can reply Handsfree (i.e. by just speaking toward the phone) and all three parties can converse. The simultaneous call goes through only if both executive extensions are idle and an executive extension has not forwarded intercom calls. In order to reply Handsfree, the microphone at an executive extension must be on. When an executive replies by lifting the handset, the other executive is disconnected. The secretary can make a ringing intercom call to both executives; however, an executive must lift the handset to reply, which disconnects the other executive.

Station Application:
KTS

Operation:
1. Seize Internal at secretary extension.
2. Dial either executive extension number. Both are called. If ringing is heard, the secretary can dial 1 to convert the call into a voice announced call. If busy tone is heard, the secretary can still contact the other executive by dialling the other executive number after pressing ICM.

Related System Data:
#10:   Dual Handsfree Hotline

■ Intercom Answer

Description:
     Intercom Answer (just lifting the handset) lets an extension user answer either signal intercom call or voice announced intercom call in a single step.
     Handsfree Answerback lets key telephone extension user answer a voice announced intercom call without touching the phone.

Station Application:
KTS, SLT

Operation:
To answer an intercom call:
<KTS/SLT>
1. Lift handset.

To answer a voice announced call using Handsfree Answerback:
<KTS only>
1. Speak toward the phone. The microphone must be on.

Related System Data:
Not applicable

■ **Call Pickup**

Description:
Call Pickup provides two distinct functions: one function applies to intercom calls and the other to outside calls.
–   Call Pickup allows the extension users to answer intercom call and Doorphone call. An intercom call that is ringing (or voice-announced) at a particular extension can be answered from any other extension in the system.
–   Call Pickup also allows the extension users to answer a Trunk incoming call, incoming call on a DISA line, and announced Transfer.
In order to pick up someone else's intercom call, an extension user must know the number of the extension that is ringing. If the ringing and answering extensions are in the same Internal Page Zone (Program #08-C), the # key can be used to pick up the internal call.

Station Application:
KTS, SLT

Operation:
To use Call Pickup to answer an intercom call, incoming call on a DISA line Unannounced Transfer, and Trunk incoming call on a extension in own pick-up group:
<KTS>
1. Lift handset or press SPK key.
2. Press ICM key (TX-Z 824/1232/2464 only) (See note 1).
3. Dial #. If more than one extension is ringing, this code answers intercom call, unannounced transfer, incoming call on a DISA line, and trunk incoming call.

<SLT on Dial Plan 1/2>
1. Lift handset.
2. Dial #.

<SLT on Dial Plan 1 only>
1. Lift handset.
2. Dial 8.

To use Call Pickup to answer an intercom call, incoming call on a DISA line Unannounced Transfer, and Trunk incoming call on a particular extension:

<KTS>
1. Lift handset or press SPK key.
2. Press ICM key (TX-Z 824/1232/2464 only).
3. Dial extension number of ringing phone (TX-Z 824/1232/2464).
   Dial ✳ and extension number (TX-Z 308).

<SLT>
1. Lift handset.
2. Dial 08(98) (See note 2).
3. Dial extension number of ringing phone.

To use Call Pickup to answer a Doorphone call:
<KTS>
1. Lift handset.
2. Press ICM key (TX-Z 824/1232/2464 only) (See note 1).
3. Dial 9 (TX-Z 824/1232/2464).
   Dial 939 (TX-Z 308).

<SLT>
1. Lift handset.
2. Dial 08(98) See note 2).
3. Dial 9.

Note 1: IF Program #75-D is 0 (No Tone), skip step 2 (TX-Z 824/1232/2464).
Note 2:

Program #20-D Data	Automatic Trunk Access Code for SLT	Dial at Step 2
0	0	98
1	9	08

Related System Data:
#08-C: Internal Page Zone

■ **Meet-Me Answer Paging**
   Description:
   (See "Paging")

■ **Meet-Me Conference Paging**
   Description:
   (See "Paging")

■ Do Not Disturb (DND)

Description:
     Do Not Disturb (DND) blocks incoming calls and Intercom Off-Hook Signalling. An extension user can activate DND while on a call or while the extension is idle.
There are four levels of DND:
     Level 0=>   No DND capability
     Level 1=>   Blocks Trunk call ringing
     Level 2=>   Blocks Trunk call ringing and Intercom calls
     Level 3=>   Blocks Trunk call ringing and Intercom calls or just Trunk call ringing
An extension user can still place calls and answer outside calls while the phone is in DND. Outside calls can be answered since access to the line is not blocked and the Line key still flashes.

Station Application:
KTS, SLT

Operation:
   A. To activate DND while the phone is idle:
<KTS>
1. For level 1: Press DND once. DND flashes.
2. For level 2: Press DND once. DND lights steadily.
3. For level 3: Press DND once to block Trunk call ringing and intercom and intercom calls.
                  Press DND twice to block just Trunk call ringing. DND flashes.

<SLT>
1. Lift handset.
2. Dial function code (See note).
SLT can be set for Level 2 only.

Note:

	Program #20-D Data	Automatic Trunk Access Code for SLT	Dial at Step 2
Dial Plan 1	-	-	62
Dial Plan 2	0	0	952
	1	9	052

To cancel DND while the phone is idle:
<KTS>
- Do not lift handset.
1. Press DND once or twice.
- Whichever makes DND extinguish.

\<SLT\>
1. Lift handset.
2. Dial function code (See Note)

Note:

	Program #20-D Data	Automatic Trunk Access Code for SLT	Dial at Step 2
Dial Plan 1	-	-	69
Dial Plan 2	0	0	959
	1	9	059

    B. To activate DND while on a call:

\<KTS\>
1. For level 1: Press OPAC, DND once. DND flashes.
   For level 2: Press OPAC, DND once. DND lights steadily.
   For level 3: Press OPAC, DND once to block Trunk call ringing and intercom calls.
   Or
   Press OPAC, DND twice to block just Trunk call ringing. DND flashes.

To cancel DND while on a call:

\<KTS\>
1. Press OPAC, DND once or twice.
– Whichever makes DND extinguish.

Related System Data:
#13-B: Do Not Disturb

■ **Intercom Hold**

Description:
      It is possible to place an intercom call on hold. While on hold, music is sent to the held party. Unlike Trunk line hold, when an ICM call is held, no other action can be taken by the holding party. Only the hold-originating station can re-answer this line by pressing the ICM key.

Station Application:
KTS

Operation:
To put an intercom call on hold:
1. Press Hold (See Note).

Note: Do not hang up while an intercom call is on Hold. If you hang up the handset, your intercom call is terminated.

To retrieve an intercom call on Hold:
1. Press ICM key.

Related System Data:
Not applicable

■ **Intercom Call Transfer**

Description:
      Intercom calls may be transferred to any extension manually.
There are two methods of transferring intercom calls.

Station Application:
KTS, SLT

Operation:
<KTS>
  A. To make an Intercom Call Transfer using Intercom Hold:
1. Intercom call between A and B.
2. Press Hold key to put B on Hold.
3. Extension C dials extension number of A (TX-Z 824/1232/2464)
   Extension C dials ✷ and extension number of A (TX-Z 308).
   − If extension C is SLT, dial access code 08 or 98 then dial extension number of A (See Note).
4. Intercom call between B and C is established.

Note:

Program #20-D Data	Automatic Trunk Access Code for SLT	Dial at Step 3
0	0	98
1	9	08

<KTS, SLT>
  B. To make an Intercom Call Transfer using Internal Conference (See Conference)
1. Intercom call between A and B.
2. Establish an Internal Conference with C.
3. Extension A hangs up.

Related System Data:
Not applicable

■ **Call Forward**
   Description:
   (See "Call Forward")

■ **Follow Me**
   Description:
   (See "Follow Me")

■ **Executive DND**
   Description:
   (See "Executive DND")

■ **BGM (TX-Z 824/1232/2464)**

Description:
   Background Music (BGM), from a customer-provided music source such as radio, can be broadcast over the speakers of the KTS. BGM plays while an extension is not in use. When Program #49 is enabled, BGM can also be broadcast over speakers in the external page zones. If BGM is enabled, one intercom link is used exclusively for BGM.

Station Application:
KTS

Operation:
To turn BGM on or off while an extension is not in use:
   − Do not lift handset.
   1. Press #.

Related System Data:
#49:   External Zone BGM/Alarm
#56:   Relay Contact Assignment

■ External Paging

Description:
　　External Page Output allows incoming Trunk audible, BGM from external source, and/or alarm signals to be broadcast over speakers that are installed in the external page zone(s).

Station Application:
External Speaker

Operation:
Not applicable

Related System Data:
#02:　　　　Line Group Assignment
#49:　　　　External Zone BGM/Alarm
#50:　　　　External Zone Trunk Audible

■ Doorphone

Description:
　　A Doorphone, usually placed next to an entrance door, is a combination of doorbell and intercom. When someone presses the CALL button on the Doorphone, chime tones are sent to the designated extensions. When an extension user answers the chimes, a two-way conversation is possible with the person at the door. An extension user can also call a Doorphone. The system can accommodate up to two Doorphones; both boxes can be used at the same time. Doorphone 1 sends different types of chime tones than Doorphone 2. When the chime is ringing or answered, an intercom link is used.
The extension(s) assigned in #61-E shall be out of service for Doorphone facilities (not call/not answer/not pickup Doorphone).

Station Application:
KTS, SLT

Operation:
To answer the chime tones from phone that receives them:
<KTS/SLT>
1. Lift handset. Connection established.

To answer the chime tones form a phone that does not receive them (Call Pickup):
<KST>
1. Lift handset.
2. Press ICM key (TX-Z 824/1232/2464 only) (See Note 1)
3. Dial 9 (TX-Z 824/1232/2464).
   Dial 939 (TX-Z 308)
4. Connection established.

<SLT>
1. Lift handset.
2. Dial access code 08 or 98 (See Note 2)
3. Dial 9

Note 1:   If Program #75-D is 0 (No Tone), skip step 2 (TX-Z 824/1232/2464).
Note 2:

Program #20-D Data	Automatic Trunk Access Code for SLT	Dial at Step 3
0	0	98
1	9	08

To call a Doorphone:
<KTS>
1. Seize intercom.
2. Dial 88 for box 1, 89 for box 2.

Note: If SLT set on Dial Plan 2, skip step 2.

Related System Data:
#12:   Doorphone Call
#20-A: Door Chime Tone Duration
#20-C: Door Alert Tone
#20-E: Existence of Doorphone box
#61-E: Doorphone Call/Answer

■ **Door Lock Control**

Description:
        A customer-provided Door Lock Control device can be installed with one of the Doorphones so that the extension users can lock/unlock that door using their phones. The door can be locked/unlocked while an extension user is talking to the door box. Relay Contact Assignment must be programmed for the device. Door relay can be changed to lock/unlock manually, or once the door is unlocked, automatic-lock is provided according to the assigned timer.

Station Application:
KTS, SLT

Operation:
To unlock/lock the door after contacting the Doorphone:
<KTS>
1. Flash Hook-switch to unlock the door.
2. Flash Hook-switch again to lock the door.

The door can be locked automatically when Doorphone call is terminated. When using the automatic lock feature, skip step 2.

Note: If you use Recall key on the SLT, you must enter the system data (#95-1) for the Flash time of SLT.

Related System Data:
#56:   Relay Contact Assignment
#88:   Door Relay Timer
#95-1:   SLT Hook Detection Time

■ **Room Monitor**

Description:
        Room Monitor lets one extension monitor (listen to) the environmental sounds in an area or room containing another extension, several extensions can monitor the same extension; however, only one monitored extension can be assigned in a system.

Station Application:
KTS

Operation:
To activate or cancel Room Monitor at the extension to be monitored:
1. Lift handset.
2. Press ICM key (TX-Z 824/1232/2464 only) (See Note).
3. Press OPAC.
4. Press FLASH.
    – MON flashes fast on TD/TXD type telephones while Room Monitor is activated.
    – MIC flashes fas on BTD/BTXD type telephone while Room Monitor is activated.
5. Hang up.

Note: If Program #75-D is 0 (No Tone), skip step 2 (TX-Z 824/1232/2464).

To activate or cancel Room Monitor at the monitoring extension:
- Do not lift handset.
1. Press OPAC.
2. Press FLASH.
   - MON flashes intermittently on TD/TXD type telephone while Room Monitor is activated.
   - MIC flashes intermittently on BTD/BTXD type telephone while Room Monitor is activated.

This feature can be stored under the One-touch key.

Related System Data:
#19-D: Room Monitor

■ DSS Console (TX-Z 1232/2464)

Description:
   DSS Console gives an extension user a Busy Lamp Field (Idle/Busy/DND/MW) and one-button access to extension, Doorphone or Paging. This saves time for users that do a lot of processing (e.g. Operator). TX-Z 1232 System can connect one DSS Console. TX-Z 2464 System can connect Maximum 2 DSS Consoles. Pair extension of each DSS Console is assigned in Program. When a DSS Console is connected, an intercom link is used exclusively for DSS Console. The Pair extension must be KTS. (It is recommended to be KTS with LCD). Each DSS Console must be connected to the LAST PORT of each unit.
DSS Console feature and operations are as follows:

1. **DSS Call (One-Touch Extension Access)**
   Description:
   User can make intercom conversation by only pressing the DSS key. Each DSS key is assigned following extension number (which is set the in Program 14) accordingly. **(Not by physical port)** Pair extension operated DSS Call can not use CONF, TRFR, HOLD keys within intercom conversation.

   Operation:
   1) On the Trunk Line call.
   2) Press one of DSS key.

   Related System Data:
   Intercom Calls
   Flexible Station Numbering

2. **Automatic Hold of Trunk Line**
   Description:
   When DSS Console user make conversation with Outside Caller, user can transfer this line for the other extension. When user is transferring the Trunk Line, the Trunk Line is held automatically.

   Operation:
   1) On the Trunk Line call.
   2) Press one of DSS key.

   Related System Data:
   Hold-Automatic Hold

3. **Paging**
   Description:
   External and Internal Paging is possible by the single button operation. The following keys are used for paging for a DSS position. When this feature is activated, Meet-Me Answer and Meet-Me Conference are disabled.

AC:	All Call
IZ1:	Internal Paging (For Zone 1)
IZ2:	Internal Paging (For Zone 2)
IZ3:	Internal Paging (For Zone 3)
IZ4:	Internal Paging (For Zone 4)
EAZ:	External All Paging
EZ1:	External Paging (For Zone 1)
EZ2:	External Paging (For Zone 2)

   Operation:
   1) Lift handset or press SPK.
   2) Press one of paging key.
      (Refer to previous table)

   Related Features
   Paging

4. **Doorphone Call**
   Description:
   User can make Doorphone Call only pressing the DOOR key. DSS Console has 2 DOOR keys (DOOR1 and DOOR2). These keys are assigned to each Doorphone. DSS Console can also have Door Lock Control feature.

   Operation:
   1) Lift handset or press SPK.
   2) Press one of DOOR key.

Related Features
Doorphone
Door Lock Control

5. **Message Waiting**
   Description:
   DSS Console has a MW Lamp same as the other extension. When the MW Lamp is flashing, it means a Message is waiting for you to call back.

   Operation:
   To set the Message Waiting:
   1) Dial extension number or press one of DSS key.
      (This extension is Busy or No-Answer).
   2) Press MW key on the DSS Console.
      (The MW Lamp and the message waiting extension LED on the console flash slowly).
      (The MW Lamp/Indicator on the message waiting extension flashes quickly).

   To clear the message waiting:
   1) On-Hook condition.
   2) Press MW key and DSS key which is set the MW.

   Related System Data:
   Message Waiting

6. **Unannounced Transfer**
   Description:
   When transferring a Trunk Line call, pressing the TRFR key sends a calling tone to the transferred extension until the held line is picked up by the transferred party.

   Operation:
   To transfer the call:
   1) On the Trunk Line call.
   2) Press one of DSS key.
      (Trunk Line is held and calls the other extension).
   3) Press TRFR key on DSS Console (or hang up).
      (Called extension is ringing).

   At the called extension:
   1) Lift handset.

   Related Features
   Unannounced Transfer

7. **Announced Transfer**
   Description:
   When transferring a Trunk Line call, user can transfer automatically after intercom call.

   Operation:
   To transfer the call:
   1) On the Trunk Line call.
   2) Press one of DSS key.
      (Trunk Line is held and calls the other extension).
   3) Make announcement.
   4) Press TRFR key on DSS Console (or hang up).
      (Trunk Line call is transferred).

   Related Features
   Announced Transfer

8. **Night Service**
   Description:
   This feature is available only at station 10. But if DSS Console is connected to the System, this feature is available only at DSS Console. Refer to the "Night Service".

   Operation:
   To activate Night Service:
   1) Press NT key (LED lights).

   To cancel Night Service:
   1) Press NT key (LED extinguishes).

   Related Features
   Night Service

9. **Changing Voice/Signal Call**
   Description:
   DSS Console can change the intercom calling mode simply by depressing the SG/VC key alternatively. For example, when call mode is Signal Call mode, user can change to Voice Call mode by pressing this key.

   Operation:
   1) Call to the other extension.
   2) Press SG/VC key.

   Related Features
   Intercom Call

10. **Intercom Off-Hook Signalling**
   Description:
   DSS Console can activate the Off-Hook Signalling mode by pressing the SG/VC key after getting a busy tone.

   Operation:
   1) Call to the other extension.
      (This extension is Busy or No-Answer).
   2) Press SG/VC key.

   Related Features
   Intercom Off-Hook Signalling

11. **DND Override**
   Description:
   DSS Console can call to intercom even if the extension is set DND.

   Operation:
   1) Press one of DSS key.

   Related Features
   Do Not Disturb

12. **Mode Switching**
   Description:
   In Hotel/Motel environment, DSS console can indicate extension status in three mode (Business, Room Status, and Wakeup).

13. **Dial Block/Wakeup Call Status Confirmation**
   Description:
   In Hotel/Motel environment, DSS console can indicate the setting status of Dial Block and Wakeup Call on the display of paired extension.

   Related System Data:
   #52:   Tenant Feature
   #62:   DSS Console Port Assignment
   #63-A: Automatic Hold of Line
   #63-B: DND Override

Alphanumeric Display TEL Features

■ Text Message

◆Message Edit Mode

Description:
TXD/BTXD type Key Telephones are equipped with a 2-line, 16-character Liquid Crystal Display (LCD). These displays are used to provide information such as: data/time, elapsed call time on outside calls, digits dialled, internal calling party number and Abbreviated Dialling entries, but can also perform sending and receiving of messages. The one-touch keys and dial keys allows the user to create message and identification name for each Trunk lines, extensions and abbreviated numbers. Each dial key (0-9) contains three letters or symbols. A message and a name can be up to 8 digits long, consisting of alphanumeric characters, symbol marks and spaces.

Station Application:
KTS with LCD

Operation:
<Pattern 1>
(1st Model KTS)
- Dial key (0-9): Numbers
- One-touch key (1-3) with Dial key (0-9): Letters and symbols
- One-touch key 4: Space
- One-touch key 5: Delete a character
- One-touch key 6: Delete all characters

<Pattern 2>
(Complied with ITU-T Rec.E.161)
(2nd Model KTS)
- Dial key (0-9): Numbers
- One-touch key (1-4) with Dial key (0-9): Letters and symbols
- One-touch key 5: Space
- One-touch key 6: Delete a character
- One-touch key 7: Delete all characters

Related System Data:
#61-A: Alphanumeric Key Pad Assignment

◆ **Selectable Display Messaging**

Description:

An extension user can select a pre-programmed Selectable Display Message for their extension. Display telephone callers see the selected message when they call the user's extension. Selectable Display Messaging provides personalized messaging. For example, an extension user could select the message "LEFT FOR THE DAY". Any display telephone user calling the extension would see the message. Other than displaying the message, the system puts the call through normally. See twenty-three Default Setting Messages (00-19, 47-49) below for a list of the standard message. The system has fifty Selectable Display Messages (00-49) and two Personal Display Messages (One-touch key number 1 & 2) for each extension. An extension user can add digits for date, time or phone number after messages 00, 01, 02, and 13. For example, an extension user could select the message 13 "OUT UNTIL _/_" and then enter the date on "_/_". Callers see the original message followed by the appended date. They then be able tell when the user was coming back to the office.

The default messages are:
00:     CALL _
01:     CALL AFTER _:_
02:     CALL EXT. ____
03:     CALL ME ASAP
04:     DO NOT DISTURB
05:     IN CONFERENCE
06:     IN MEETING
07:     LEFT FOR THE DAY
08:     ON BREAK
09:     ON VACATION
10:     OUT OF OFFICE
11:     OUT TO LUNCH
12:     OUT UNTIL __:__
13:     OUT UNTIL __/__
14:     PAGE ME
15:     PLEASE SEE ME
16:     SEE ME ASAP
17:     WITH A CLIENT
18:     WITH A PATIENT
19:     WITH A VISITOR
47:     TAKE MESSAGE
48:     PLEASE HOLD
49:     CALL BACK LATER

Station Application:
KTS with LCD

Operation:
To store text in one-touch key number 1 and 2:
1. Press CHECK and OPAC.
2. Dial message number (00-49).
3. Dial✳.
4. Edit your own message by Message Edit Mode.
5. Press CHECK.
6. Press One-touch key No.1 or No.2 to store.
7. Dial✳.
8. Enter message number for next storing.
   Or
   Press CLEAR to finish.

To store system message (No.10 telephone only):
1. Press CHECK an OPAC.
2. Dial message number (00-49).
3. Dial✳.
4. Edit message by Message Edit Mode.
5. Press CHECK.
6. Dial message number to store.
7. Dial✳.
8. Dial message number to next storing.
   Or
   Press CLEAR to finish.

Related System Data:
Not applicable.

◆ **Broadcasting the Message at Later Time**

Description:
      Text message can be set to indicate on display telephones in hunt group at programmed time. If it is set, and time comes, the message will appear on display in 1 minute with alarm tone.

Station Application:
KTS with LCD

Operation:
To set send-later message:
1. Press CHECK and OPAC.
2. Dial message number (00-49), dial ✳
   Or
   Press One-touch key No.1 or No.2 for personal message, then dial ✳.
3. Edit message if required.
4. Press ICM.
5. Dial an extension number or hunt group number (00-04).
6. Press ICM key to set more extension if required. (This step is only available when extension number is dialled at step 5).
7. Dial✳.
8. Enter the time of indication with 4 digits
   (e.g. PM3:00 => 15:00).
9. Dial✳.

To cancel send-later message:
1. Press CHECK key.
2. Press TRFR key.

To stop the alarm tone and clear the display:
1. Press CLEAR key.

Related System Data:
Not applicable.

◆ **DND Message**

Description:
DND Message sends a message to a calling extension when your telephone have activated DND for intercom calls.

Station Application:
KTS with LCD

Operation:
To set DND message using preset message:
1. Press TRFR.
2. Dial message number (00-49), dial ✳.
   Or
   Press One-touch key No.1 or No.2 for personal message, then dial ✳.
   − DND flashes intermittently as confirmation.

To set DND message that edited by Message Edit Mode:
1. Press TRFR and FLASH.
2. Edit message by Message Edit Mode.
3. Press FLASH and ✶. DND flashes intermittently as confirmation.

To cancel message on the telephone:
1. Press CLEAR.

To activate/cancel previous message (last time you set message for DND):
1. Press TRFR and ✶.
   - When DND message is activated, DND flashes intermittently.

Related System Data:
Not applicable.

◆ **Leave Message with MW**

Description:
   When an extension user makes an intercom call to display phone and receives a busy signal or no answer, this user can leave a text message with Message Wait (MW).

Station Application:
KTS with LCD

Operation:
To leave a Message:
1. Place intercom. Busy or no answer.
2. Dial 0. MW flashes intermittently as confirmation.
   - Display shows "LEAVE MESSAGE?", then you can enter a message. If you replace handset after this step operation, it is simple message waiting procedure.
3. Dial✶.
4. Dial message number (00-49), dial ✶.
   Or
   Press One-touch key No.1 or No.2 for personal message, then dial✶.
   Or
   Press FLASH, edit a message by Message Edit Mode, then press FLASH again and dial✶.
   - A text message is left on called display phone.

To cancel message at message-originated telephone:
1. Press CHECK and #.
   – First message appears on the display.
2. Use ✳ to advance and use # to go backwards.
3. Press Hold to cancel message.
   Or
   Press CLEAR to return to idle condition.

To call back or delete message at message-received telephone:
1. Press CHECK and ✳.
   – First message appears on the display.
2. Use ✳ to advance and use # to go backwards.
3. Press ICM to call back.
   Or
   Press HOLD to delete message.
   Or
   Press CLEAR to return to idle condition.

Related System Data:
Not applicable.

◆ **Camp-On Message**

Description:
When an extension user makes an intercom call to display phone and receives a busy signal call can not be connected. This user can send a text message. Intercom Off-Hook Signalling (#04-C) must be enabled at the called extension.

Station Application:
KTS with LCD

Operation:
To set Camp-On message:
1. Place intercom call. Hear busy tone.
2. Activate Intercom Off-hook Signalling (See Intercom Off-hook Signalling).
3. Press ✳.
4. Dial message number (00-49) and ✳.
   Or
   Press One-touch key No.1 or No.2 for personal message, then dial ✳.
   Or
   Press FLASH, edit a message by Message Edit Mode, then press FLASH again and dial ✳.

–   Confirmation tone is heard when message is sent.

Related System Data:
#04-C: Intercom Off-hook Signalling.

◆ **Reverse Message**

Description:
The extension received "Intercom Off-hook Signalling" can send a text message to calling extension is the extension user is inconvenient to reply to the signal. For example user could select the message 49 "CALL BACK LATER".

Station Application:
KTS with LCD

Operation:
–   On conversation, "Intercom Off-hook Signal" received.
1. Press TRFR.
2. Dial message number (1-3).
          Dial 1:   System common message No.47
          Dial 2:   System common message No.48
          Dial 3:   System common message No.49
   The default value of 47, 48 and 49 are:
          No.47:   TAKE MESSAGE
          No.48:   PLEASE HOLD
          No.49:   CALL BACK LATER

Related System Data:
#04-C: Intercom Off-hook Signalling.

■ **Time and Date**

Description:
A Display phone connected to port 10 can be used to set the date and time for all Display phones in the system and for SMDR.

Station Application:
KTS with LCD

Operation:
To set the date and time (the entire procedure must be performed):
1. Press SPK.
2. Press ICM key (TX-Z 824/1232/2464 only) (See Note).
3. Press OPAC.
4. Press CLEAR.
THE YEAR
5. Dial four digits for the year. For example, 1998.
6. Dial ✳.
THE DATE
7. Dial two digits (01-12) for the month. Jan=01, Feb=02, etc.
8. Dial two digits (01-31) for the date.
9. Dial ✳.
THE DAY
10. Dial a single digit (0-6) for the day. Sun=0, Mon=1, etc.
11. Dial ✳.
THE TIME
12. Dial four digits for the time (24 hour clock). For example, dial 1035 for 1:05pm.
13. Dial ✳.
14. Press SPK. The display shows the new date and time.

Note: If Program #75-D is 0 (No Tone), skip step 2 (TX-Z 824/1232/2464).

Related System Data:
#18-E: Time Indication

■ **Name Storing (Trunk & Station)**

Description:
        Each Trunk line has an alphanumeric filed for easy i9dentification such as LOCAL,
SERIVCE, SALES, etc. On the TX-Z 1232/2464 System, when System has DLS Console, each
DLS key can store the characters same as each Trunk line.
Extensions can also have names instead of just station numbers. These names show on an
extension's display when the user places or answer's calls. Station Names make it easier to
identify callers. The user does not have to refer to a directory when processing calls.
The storing operation (Trunk and Station) is possible only from #10 extension.

Station Application:
KTS with LCD, DLS (TX-Z 1232/2464)

Operation:
To store names for each Trunk line:
1. Press DC key twice.
2. Press relative line key.
3. Dial ✶.
4. Input the letters if the name by Message Edit Mode.
5. Press next line key and dial ✶ for next storing.
   Or
   Press Line key and CLEAR key to finish.

To store names for each extension:
1. Press DC key twice.
2. Press ICM.
3. Dial extension number to store.
4. Dial ✶.
5. Input letters of the name by Message Edit Mode.
6. Press ICM.
7. Dial next extension number to store.
   Or
   Press CLEAR key to finish.

Related System Data:
Not applicable.

■ **Directory Dialling**

Description:
Directory Dialling allows display telephone to place extension or Abbreviated Dialling call using the directory (list of name). Select a station or Abbreviated Dialling name form the directory on the display telephone and then press a Line key or ICM key to place a call.

Station Application:
KTS with LCD

Operation:
To store name for each abbreviated number:
1. Press DC twice.
2. Press HOLD.
3. Dial abbreviated number (00-99 or 000-199).
4. Dial ✳.
5. Input the letters of the name by Message Edit Mode.
6. Press HOLD.
7. Dial next abbreviated number to store.
   Or
   Press CLEAR key to finish.

Note: The storing operation is possible only from the #10 extension.

To use Directory Dialling to place Abbreviated Dialling call:
1. Press DC, dial 6.
2. Enter the first letter of the name by Message Edit Mode or Press ✳ (referring to all names).
3. Find the name using # or ✳
   #: Scroll backward.   ✳: Scroll forward.
4. Press idle Line key.

To use Directory Dialling to place intercom call:
1. Press DC, dial 4.
2. Enter the first letter of the name by Message Edit Mode or press ✳ (referring to all names).
3. Find the name using # or ✳
   #: Scroll backward.   ✳: Scroll forward.
4. Press ICM key.

Related System Data:
Not applicable.

■ **Alarm Clock**

Description:
    The Alarm Clock feature lets Display phone user set two alarms at their phones as a reminder for appointments, meetings, etc. the alarm sounds every day at the set time unless thet are cancelled.

Station Application:
KTS with LCD

Operation:
To set an alarm:
1. Press SPK.
2. Press ICM key (TX-Z 824/1232/2464 only) (See Note).
3. Press OPA, dial 50.
4. Dial 1 to set first alarm or dial 2 to set second alarm.
5. Dial time in terms of 24 hour clock. For example, dial 1545 for 3:45pm.
6. Dial ✳
7. Press SPK.

To check an alarm setting:
1. Press SPK.
2. Press ICM key (TX-Z 824/1232/2464 only) (See Note).
3. Press OPAC, dial 50.
4. Dial 1 to check first alarm or dial 2 to check second alarm.
5. Press SPK.

To stop the alarm tone:
1. Press CLEAR.

To cancel an alarm:
1. Press SPK.
2. Press ICM key (TX-Z 824/1232/2464 only) (See note).
3. Press OPAC, dial 50.
4. Dial 1 to cancel first alarm or dial 2 to cancel second alarm
5. Dial ✳
6. Press SPK.

This feature can be under the One-touch key.

Note: If Program #75-D is 0 (No Tone), skip step 2 (TX-Z 824/1232/2464).

Related System Data:
Not applicable

■ **Stopwatch**

Description:
The clock on a Display phone can be used as a Stopwatch to time events. For example, the Stopwatch can be used to time the duration of a phone call.

Station Application:
KTS with LCD

Operation:
To activate the Stopwatch:
      1. Press OPAC, dial 51 to start timing.
      2. Press OPAC, dial 51 again to stop timing.
      3. Press CLEAR to return to the date and time.

This feature can be stored under the One-touch key.

Related System Data:
Not applicable.

■ **Busy Lamp Field**

Description:
      The Busy Lamp Field (BLF) feature provides a light (LED) indication under a One-touch key used as Direct Station Selection (DSS) key to indicate the status (mode) of the associated extension.
This feature applies to the One-touch key on a Display phone.

Station Application:
KTS with LCD

Operation:
Not applicable

Related System Data:
Not applicable

<div align="center">

Other Features
</div>

■ **Handsfree (Speaker & Microphone)**

◆ **Speakerphone**

Description:
Speakerphone, a feature of Display phones, allows a user to place calls and answer ringing calls without lifting the handset – a key is pressed instead. To converse on a Speakerphone call, an extension user just speaks towards the phone; the phone's microphone picks up the extension user's voice (also see Microphone On/Off). A user can also change to the Speakerphone during a handset call.

Station Application:
KTS

Operation:
To place a call using Speakerphone:
1. Press SPK key. SPK lights. If Single Step Access is programmed, this step can be skipped.
2. Obtain outside or intercom dial tone in usual way. Dial tone is heard over the speaker.
3. Dial number.
4. Speak toward phone when call is established.

To answer an outside call using Speakerphone:
1. Press SPK key. SPK lights. If Ringing Trunk Off-Hook Access is programmed, this single step answers the call.
2. Press flashing Line key.
3. Speak towards the phone.

To change to Speakerphone during a handset call:
1. Press SPK key. SPK lights.
2. Replace handset.

To hang up a Speakerphone call:
1. Press SPK key.

To change to the handset during a Speakerphone call:
1. Lift handset. SPK extinguishes.

Note: For almost all feature instruction that says, "Lift handset", the SPK key can be pressed instead. SPK must be pressed again to hang up.

Related System Data:
Not applicable

◆ Microphone On/Off

Description:
     Microphone On/Off lets an extension user turn the phone's microphone on or off. The microphone can be turned on or off while an extension is idle or during a Speakerphone/Handsfree call.

- − When the microphone is on, a user can conduct a Speakerphone/Handsfree conversation as usual – by just speaking toward the phone – and the microphone picks up the user's voice.
- − When a user turns the microphone off during a Speakerphone/Handsfree call, the microphone will not pick up the user's voice. This prevents the party on the line from hearing the user, but does not prevent the user from hearing the party on the line.
- − When a user turns the microphone off while the extension is idle, this prevents am intercom caller, whose voice comes over the speaker, from being able to hear a conversation taking place in the vicinity of the extension at the moment the call comes through.

The Microphone On/Off program determines whether the microphone is "normally on" or "normally off" at all extensions in the system.

Station Application:
KTS

Operation:
Not applicable

Related System Data:
#19-C: Microphone On/Off

■ Lamp Shift Mode (TX-Z 824/1232/2464)

Description:
     Lamp Shift Mode allows an incoming line group (assigned to Program #07) to shift appearance so that the lowest numbered line group (regardless of the number) appears under Line key 1, and the rest follow on keys 2, 3, 4, etc. For example, an incoming line group containing lines 4-8 can appear under Line keys 1-4. lamp Shift Mode shifts exactly one incoming line group at every extension automatically provides each extension with both incoming and outgoing access to that line group.

Station Application:
KTS

Operation:
Not applicable

Related System Data:
#02:   Line Group Assignment
#07:   Incoming Trunk Access/Audible
#15-A: Lamp Shift Mode

■ **Remind Call on SLT**

Description:
  Remind Call feature lets single line telephone users set time reminder at their phones. If a BGM source is installed, BGM play at an SLT extension when pick up a Remind Call.

Station Application:
SLT

Operation:
To set Remind Call on SLT:
 1. Lift handset.
 2. Dial function code (See Note 1)
 3. Dial time in terms of 24 hour clock. For example, dial 1545 for 3:45pm.
 4. Hang up.

To cancel Remind Call on SLT:
 1. Lift handset.
 2. Dial function code (See Note 2).
 3. Hang up.

Note 1:

	Program #20-D Data	Automatic Trunk Access Code for SLT	Dial at Step 2
Dial Plan 1	-	-	64
Dial Plan 2	0	0	954
	1	9	054

Note 2:

	Program #20-D Data	Automatic Trunk Access Code for SLT	Dial at Step 2
Dial Plan 1	-	-	69
Dial Plan 2	0	0	959
	1	9	059

Related System Data:
Not applicable

■ **Station Message Detail Recording (SMDR)**

Description:
      Station Message Detail Recording (SMDR) provides a printed record of the outside calls placed and answered at each extension in the system. The SMDR printout shows data such as class of call, date and time, line number, duration, extension number, and number dialled. SMDR also provides an Account Code feature. An extension user can enter an eight-digit Account Code before or after dialling a call to identify and categorize calls. The Account Code prints with the other call information on SMDR output, the last digits can be masked by "X" at Program #58-E. outgoing information on SMDR such as OTG (Outgoing Call), OTR (Transfer of Outgoing Call) and BRD (Toll Restriction) can be controlled (print/not print) at Program #61-D on an extension basis.
An optional Unit for SMDR is required to use the feature.

Station Application:
System

Operation:
Not applicable

Related System Data:
#27:	SMDR Timers
#57-A:	Dial Digits Option
#57-B:	Outgoing/Incoming Transfer
#57-C:	No Answer
#57-D:	KTS Account Code
#57-E:	Incoming Call
#58-A:	Barred Outgoing
#58-B:	SLT Account Code
#58-C:	Dialled Number
#58-E:	SMDR Masking Digit
#59:	SMDR Printout Digit
#61-D:	SMDR Outgoing Information

■ **Polarity Reverse Detection (TX-Z 1232/2464)**

Description:
      The system can detect the Polarity Reverse signals sent from public exchange lines. By the feature, following features are controlled.
– Time indication of Trunk line conversation: Start/End.
– Outgoing call duration time count by SMDR: Start/End.
– Open the DTMF Receiver.
– Finish the Conversation on the Trunk-to-Trunk.

Station Application:
KTS, SLT

Operation:
Not applicable

Related System Data:
#01-E: Polarity Reverse Detection
#60:   Polarity Reverse Detect Time
#83-A: Trunk Disconnection when detected polarity reverse

■ **DISA with Audio Guidance**

Description:
         The automatic answering machine (customer-provided) can be connected to the system as voice announce device for DISA line.
Also Endless Tape (customer-provided) can be connected to the system as voice announce device for DISA line. The feature allows incoming calls on DISA lines to be automatically answered by a voice recorded message.

System Application:
System

Operation:
Refer to DISA (Extension Access) and DISA (Trunk-to-Trunk)

Related System Data:
#08-A: Instrument Type
#13-D: Voice Announce Device Port

■ **External Call Forward on DISA**

Description:
         External Call Forward (Trunk to Trunk) allows outside parties calling on the DISA Line to transfer the call to other outside parties automatically when system is set to the External Call Forward Mode. The destination of the telephone number must be set on the abbreviated dial No.99.

Station Application:
System

Operation:
To set the External Call Forward Mode (#10 KTS only):
1. Press SPK.
2. Press ICM key (TX-Z 824/1232/2464 only) (See Note).
3. Press OPAC, dial 70.
4. Press SPK.

To cancel the External Call Forward Mode (#10 KTS only):
1. Press SPK.
2. Press ICM key (TX-Z 824/1232/2464 only) (See Note).
3. Press OPAC, dial 70.
4. Press SPK.

Note: If Program #75-D is 0 (No Tone), skip step 2 (TX-Z 824/1232/2464).
Refer to DISA (Extension Access) and DISA (Trunk-To-Trunk).

Related System Data:
#03-A: DISA Line
#03-B: DISA Line Access
#08-A: Instrument Type
#31:   Trunk-To-Trunk Cut-Off Timer Assignment

■ **One-Touch Feature Access**

Description:
        This feature permits to store the features under the One-Touch, Line or DLS keys so they can be used to access the following features instead of dialling/pressing function code in [ ]. See descriptions and operations of each feature for detailed procedure. **Loop Key (No.14) can be assigned only to** <u>**Line key which is not defined.**</u>

01:     Alarm   [OPAC-50]
02:     Timer   [OPAC-51]
03:     Day/Night Mode   [SPK-ICM (TX-Z 824/1232/2464 only)-TRFR-#] (See Note)
04:     Monitor   [OPAC-FLASH]
05:     Monitored   [SPK-ICM (TX-Z 824/1232/2464 Only)-OPAC-FLASH] (See Note)
06:     Recall Trunk Display: [SPK-ICM (TX-Z 824/1232/2464 only)-OPAC-CHECK] (See Note)
07:     Repeat Dial key: [OPAC-1]
08:     Repeat Dialling (Hurry Up) [OPAC-2]
09:     Directory Dialling (Line): [DC-6]
10:     Directory Dialling (ICM):   [DC-4]
11:     I-Hold Release   [SPK-ICM (TX-Z 824/1232/2464 only)-OPAC-3] (See Note)
12:     Restriction Release   [OPAC-DC]

13:     External Call Forward Mode (DISA)   [OPAC-70]
14:     Loop Key   [None]
22:     Conversation Record (TX-Z 824)   [CONF-95]
23:     Conversation Record (TX-Z 1232/2464)   [CONF-95]
24:     DSS Console Business Mode (TX-Z 1232/2464)   [SPK-ICM-OPAC-74]
25:     DSS Console Room Status Mode (TX-Z 1232/2464)   [SPK-ICM-OPAC-74]
26:     DSS Console Wakeup Mode (TX-Z 1232/2464)   [SPK-ICM-OPAC-75]

Note: If Program #75-D is 0 (No Tone), skip pressing ICM (TX-824/1232/2464).

Station Application:
KTS

Operation:
To store a feature under a One-Touch or Line key:
1. Press SPK.
2. Press ICM key (TX-Z 824/1232/2464 only) (See Note 1).
3. Press OPAC, dial 4.
4. Press a desired One-Touch or Line key.
5. Dial feature number (01-14).
6. Dial ✳
7. Press SPK.

To clear a feature stored on a One-Touch or Line key:
1. Press SPK.
2. Press ICM key (TX-Z 824/1232/2464 only) (See Note 1).
3. Press OPAC, dial 4.
4. Press a One-Touch or Line key stored feature.
5. Dial 00 to delete a feature stored.
6. Dial ✳
7. Press SPK.

To check a feature store under One-Touch or Line key:
− Do not press SPK key.
1. Press CHECK.
2. Press a One-Touch or Line key stored feature.
3. The number set feature display.

Note 1:   If Program #75-D is 0 (No Tone), skip pressing ICM (TX-Z 824/1232/2464).
Note 2:   One-Touch key No.9 (TX-Z 308) is set as Repeat Dial key initially. To store another feature, clear the feature first.

Related System Data:
Not applicable

■ Volume Control

Description:
      The Volume Control, which is provided with all KTS, allows easy changes to the following: LCD contrast on KTS with LCD, station ringing volume, handset receiver volume, and station speaker volume control.

Station Application:
KTS

Operation:
To adjust LCD contrast for KTS with LCD:
      –   Do not lift handset.
  1. Press the Vol (up) or Vol (down) to increase/decrease LCD contrast while the phone is handsfree mode.

To adjust Speaker Volume:
  1. Press the Vol (up) or Vol (down) to increase/decrease speaker volume while the phone is handsfree mode.

To adjust Handset Receiver Volume:
  1. Press the Vol (up) or Vol (down) to increase/decrease handset receiver volume.

To adjust Ringing Volume:
  1. Press the Vol (up) or Vol (down) to increase/decrease ringing volume while the phone is ringing or idle mode.

Related System Data:
#18-D: Handset Receiver Volume

■ DLS Console (TX-Z 824/1232/2464)

Description:
      DLS (Direct Line Selection) Console has 24 DLS keys. Each DLS key is assigned as Trunk Line or Feature Access key. **DLS Console should be connected to KTS with LCD extension.**
On the TX-Z 824 System, this DLS Console is used as DSS (Direct Station Selection) Console. Each DLS key is assigned to physical port number accordingly. **(Not by extension number which is set in Program 14).** DLS Console user can call the other extension only pressing DLS key. TX-Z 824 System can connect Maximum 3 DLS Consoles.
On the TX-Z 1232/2464 System, Each DLS Console key can be used as Trunk Line or Feature Access key. Each DLS key is assigned from Trunk Line number 1 to Trunk Line number 24 on the initial condition. DLS Console user can assign the unused DLS keys as feature Access key.

TX-Z 1232 System can connect Maximum 8 DLS Consoles. TX-Z 2464 System can connect Maximum 16 DLS Consoles.

Station Application:
KTS with LCD

Operation:

TX-Z 824

1) DSS Call (One-Touch Extension Access)
1. Do not lift handset.
   Or
2. Press one of DLS key.

2) Automatic Hold of Trunk Line
1. On the Trunk line call.
2. Press one of DLS key.

3) Unannounced Transfer
1. On the Trunk line call.
2. Press one of DLS key.
   (Trunk Line is held and the other extension is called).
3. Hang up or press TRFR key.
   (Called extension is ringing).

4) Announced Transfer
1. On the Trunk Line call.
2. Press one of DLS key.
   (Trunk Line is held and the other extension is called).
3. Make announcement.
4. Hang up or press TRFR key.
   (Trunk Line is transferred).

TX-Z 1232/2464

To seize the Trunk Line:
1. Press an idle DLS key.

Related System Data:
Not applicable