

Teligent[®] 314 Series, Model 314-14

Home and Business
Communication System

Bluetooth Converter Manual

Installation and Basic Operations

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IMPORTANT SAFETY INSTRUCTIONS

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

1. Carefully read and understand all the instructions.
2. Follow all warnings and instructions marked on the product.
3. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this product near water, for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.
5. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
6. Slots and openings in the cabinet and the back or bottom are provided for ventilation, to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the product on the bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.
7. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your dealer or local power company.
8. This product is equipped with a three-wire grounding type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug.
9. Do not allow anything to rest on the power cord. Do not locate this product where persons walking on it will abuse the cord.
10. Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.
11. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
12. To reduce the risk of electric shock, do not disassemble this product, but take it to a qualified serviceman when some service or repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the appliance is subsequently used.
13. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. when the power supply cord or plug is damaged or frayed.
 - b. if liquid has been spilled into the product.
 - c. if the product has been exposed to rain or water.
 - d. if the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions because improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
 - e. if the product has been dropped or the cabinet has been damaged.
 - f. if the product exhibits a distinct change in performance.
14. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
15. Do not use the telephone to report a gas leak in the vicinity of the leak.

SAVE THESE INSTRUCTIONS

Note:  The symbol to the left (an exclamation point within an equilateral triangle) is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying this product.

ADDITIONAL SAFETY INSTRUCTIONS

1. Incorrect installation may cause damage to the equipment. Carefully and completely read the installation sections of this manual for details.
2. Only the power adapters that are supplied with the unit should be used. The system uses only CLASS 2 power adapters.
Note: Monitor Phones are line powered and do not require power adapters.
3. The case of this equipment is used to dissipate heat. To prevent overheating, place the Converter in an area with proper ventilation. Do not insulate this equipment by covering it with a blanket or any other material that could trap heat in the equipment.

FCC

FCC PART 15, INSTRUCTION TO THE USER

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment has been verified to comply with the limits for a Class B computing device, pursuant to FCC Rules. In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.

INTRODUCTION

This Converter enables you to connect any cellular phone that supports Bluetooth capability to standard telephones and telephone equipment such as answering machines. The Converter can be used alone, or also supports expansion of up to 13 stations or additional phone connections with up to 26 individual extension numbers and PBX features. The In-House Wire or expansion line supports unique System Phones or standard telephone equipment using Adapter Boxes.

FEATURE OVERVIEW

Easy Stand Alone Operation

Simply plug in a standard telephone into the "PHONE" connector, power the Converter, and pair the Converter to your Bluetooth cellular phone. The standard telephone can then answer cellular phone calls or call out on the cellular phone.

Supports Additional Standard Phone Equipment Up To 13 Additional Stations and 26 Extensions Using Adapter Boxes

The Adapter Box connected to the in-house wire can be used to expand the number of standard telephone equipment instruments used. Each additional instrument has two unique extension numbers for transferring calls and for internal COM calls.



NOTE: The Adapter Box is for use only with a Bluetooth Converter.

Supports Unique System Phones

The System Speaker Phone and the System Monitor Phone can be connected directly to the in-house wire. These phones have many one touch features. A System Phone assigned to Station 0, extension 800/900, can be used to enter advanced operator features as is described in the "System Operator Feature" section of this manual.



NOTE: The System Phones are for use only with a Bluetooth Converter.

Easy One Time Installation Using The In-House Wire

The system can be installed using the existing twisted pair telephone wire in the walls and ceiling of your building. Once the system is installed, you can unplug any station on the system and plug it in at any other location without changing any wiring or program settings.

Full Business Telephone Features

Hold, call transfer, line privacy, call ring back, and other useful telephone features.

Supports Door Phone

One or two 314-07 Door Phones can be installed with the system. The Door Phone can also control door/gate locks. The Door Phone is powered by the in-house wire and can be installed using existing doorbell wires.



NOTE: The 314-07 Door Phone is for use only with the Bluetooth Converter.

INSTALLATION

This procedure assumes the cellular phone has been paired to the Converter. Refer to "Pairing The Cellular Phone To The Converter" for more information.

1. Power the cellular phone to be connected and be sure the Bluetooth feature is enabled.
2. Connect a standard telephone to the "PHONE" connector. Be sure NOT to connect the standard telephone into the "IN-HOUSE WIRE" connector.
3. Plug the power supply module into a 110 volt power receptacle.
4. Plug the power cord from the power module into the Converter box. The "Power" light should light immediately. After a short time the "Wireless Communication" light should light to indicate the Bluetooth connection has been established. A short time after that, the Line light on the Converter will flash. Wait until the flashing stops before using any instrument.
5. The standard telephone can now be used to call out over the cellular phone or to answer an incoming call from the cellular phone. To dial out, end the number dialed with the "#" key. For more information on the operation of the internal phone, see the "Using The Internal Phone" section of this manual.
6. By using a 1 to 2 splitter, two instruments can be connected to the "PHONE" connector.
7. The "IN-HOUSE WIRE" connector can be used to connect an Adapter Box or System Phone directly or can be used to connect to existing wiring. The In-House Wire can be extended up to 1000 feet using 24 gauge twisted pair telephone wire cable. The wiring can be any combination of serial and parallel connections. When using existing wire, make sure that NO other outside connections or standard telephone instruments are directly connected to the existing wire prior to installing the Converter.



WARNING: Installing the Converter on existing wire that may have connection to an outside line or that contains standard telephone instruments connected to it will damage the Converter.

8. If more standard telephone instruments are to be added, connect them to the in-house wire using an Adapter Box. DO NOT connect standard telephone instruments directly to the "IN-HOUSE WIRE" connector. Each Adapter Box must be set to a unique station number. The number assigned to the "PHONE" connector is Station 1 (extension 801/901), so Station 1 cannot be used for additional Adapter Boxes or System Phones. After the first Adapter Box is added, wait momentarily for the Converter to activate the "IN-HOUSE WIRE" connector. When installing multiple Adapter Boxes, add them one at a time. Further instructions are included in the Adapter Box user manual.
9. If using System Phones, install System Phones either to the "IN-HOUSE WIRE" connector or existing wire. Each System Phone must be set to a unique station number. When installing multiple System Phones, add them one at a time. If System Phones are used, assign one of them to

Station 0 (extension 800/900). This phone then becomes the Operator Phone and can be used to program advanced system features as described in the "System Operator Features" section of this manual. Further instructions are included in the System Phones user manuals.

10. If using Door Phones, install Door Phones following instructions included in the Door Phone user manual.

USING THE INTERNAL PHONE CONNECTION

One or two standard telephone instruments can be connected to the "PHONE" connector on the Converter to create the Internal Phone. The Internal Phone will ring when there is an incoming cellular phone call and can be answered as if it were a wired line call. The standard telephone instrument(s) connected to the "PHONE" connector is assigned Station 1. When other telephones are connected via the "IN-HOUSE WIRE" connector, those other telephones must dial extension 801 or 901 when transferring calls and making internal COM calls to the Internal Phone. For transferred calls and internal COM calls, calls to extension 801 will ring two times and calls to extension 901 will ring three times.

When reading the instructions, the FLASH key can be substituted with an on hook for approximately half a second and then back off hook. On hook is when the handset is in the cradle and off hook is when the handset is picked up.

PAIRING THE CELLULAR PHONE TO THE CONVERTER

A cellular phone with Bluetooth capability must be paired to the Converter before it can be connected. To pair a cellular phone, follow the procedure below.

- 1. Make sure the cellular phone with the Bluetooth connection to be paired to the Converter is on and in the Discoverable Mode.**
If the cellular phone is in Discoverable Mode for only a short time, get the cellular phone ready to enter into the Discoverable Mode. Only the cellular phone to be paired should be in the area. All other cellular phones with bluetooth capability should be turned off.
- 2. From the Internal Phone, press **1, then enter a four number passcode.**
For example **1 1234. The four number passcode is a sequence of any four numbers that the user enters to define what the passcode is.

Note: If the cellular phone stays in the Discoverable Mode for only a short time after pressing the button on the cellular phone to enter into Discoverable Mode, enter the passcode first and then press the button on the cellular phone to enter into Discoverable Mode.
- 3. If the cellular phone is in the Discoverable Mode, the cellular phone will recognize that the Converter is attempting to pair and ask if you want to accept. Press "OK" and the cellular phone will ask for the passcode.**
- 4. Enter the four number passcode.**

The cellular phone should indicate that the pairing was successful. Hang up the Internal Phone and the cellular phone should connect and the "WIRELESS COMMUNICATION" light on the Converter should be on. The cellular phone display will ask if you wish to connect. In rare cases, the Bluetooth Converter will need to have the power cycled before the cellular phone will connect.
- 5. If the pairing procedure is not successful within two minutes, hang up and try again. To try again, repeat the above procedure.**
- 6. If the sound is not active after the cellular phone is paired and the wireless communication light is lit, press **8 on the Internal Phone.**

FEATURE OVERVIEW

<u>FEATURE</u>	<u>DESCRIPTION</u>
Selecting Line	Selects the line number.
Making Internal (COM) Calls	Places a call to an inside extension number.
Making Outside Calls	Places a call to an outside number.
Global Hold	Places a call on hold that can be retrieved from any station.
Private Hold	Places a call on hold that can only be retrieved from that station.
Call Transfer	Transfers an incoming call to another extension.
Ring Paging	Causes all non-busy telephones to ring.
Broadcast	Broadcasts on the COM line to all System Phones.
Conference Calls	Connects multiple parties together in a telephone conversation.
Extension Callback/Camp-On	Rings back when the busy extension number becomes free.
COM Callback/Camp-on	Rings back when the COM line becomes free.
Do Not Disturb (DND)	Turns off all rings to a particular station.
Flash Time Adjust	Adjusts FLASH timing.
Set Up - Line Ring Preference	Selects which telephone lines will ring at a particular station.
System Reset	Resets the system back to system defaults.
Using The Door Phone	Allows connection to the Door Phone and activate the optional door-lock.

SELECTING LINE

Selects the line number.

1. **Go off hook and listen for dial tone.**
2. **Press # and using the touch-tone keypad, enter the line number.**

Note: If you do not select a line, an available line will automatically be selected. By default the system will select the following order: Line 1, COM.

MAKING INTERNAL (COM) CALLS

Places a call to an inside extension number.

1. **Check if the COM line is free.**
The red COM light will be off.
2. **Go off hook and press #4.**
The red COM light on the Converter will light up and you should hear dial tone.
3. **Using the touch-tone keypad, enter the extension number.**
If you receive a fast busy signal after dialing a valid extension number, then the extension you are calling is in the "Do Not Disturb" mode. See *Do Not Disturb* for details.

MAKING OUTSIDE CALLS

Places a call to an outside number.

1. **Go off hook. Before dialing, the outside line must be selected.**
If the red Line light is on, then that line is not available.
2. **Dial the number and then press #.**

GLOBAL HOLD

Places a call on hold that can be retrieved from any station.

1. **Press FLASH.** (If your telephone is not equipped with a FLASH key then hold down the hook switch in the receiver cradle for approximately half a second.)
The red line light will blink slowly on all stations to indicate that the call has been placed on Global Hold.

Retrieve Global Hold Call

1. **Go off hook.**
2. **Press # and select the line number that the call is held on.**

PRIVATE HOLD

Places a call on hold that can only be retrieved from that station.

1. **Press FLASH. Wait approximately two seconds, and then press FLASH slowly again.** (If your telephone is not equipped with the FLASH key then hold down the hook switch in the receiver cradle for approximately half a second.) Verify that the call has been placed on Private Hold by checking to make sure that the red line light is blinking quickly. All other stations will have a solid red line light.

Retrieve Private Hold Call

1. **Go on hook, and then go off hook.**
When you go back off hook you will automatically be connected unless the call is being transferred. If the call is being transferred, retrieve Private Hold the same as Global Hold as described above.

CALL TRANSFER

Transfers an incoming call to another extension.

1. **Press the FLASH key.**
The red line light will blink slowly to indicate that the call has been placed on Global Hold.
2. **Using the touch-tone keypad, enter the extension number.**
The call is automatically placed on Private Hold.
3. **Option 1: Hang up.**
If the call is not picked up, the call will ring back at your extension.
Option 2: Stay on the line, announce the transfer and hang up.
When you hang up, the caller will automatically be connected to the extension you entered.

RING PAGING

Causes all non-busy telephones on the system to ring.

1. **Select the COM line by pressing # 4.**
2. **Press *2.**
If no telephones are available, then a busy signal will sound in the earpiece.

Ringling stops when any station answers the call. This feature can be used to see if you are the only person in the building.

BROADCAST

Broadcasts on the COM line to all System Phones.

1. **Go off hook on the COM line.**
If the COM line is in use a busy signal will be heard and this feature cannot be performed. Hang up and try again later.
2. **Press *6.**
All System Phones will emit a tone, then your voice will be broadcast through the speakers of all System Phones.

CONFERENCE CALL

Connects multiple parties together in a telephone conversation.

1. **While connected to an outside line, press the FLASH key.**
2. **Using the touch-tone keypad, enter the extension number of the station you wish to add to the conversation.**
3. **After the extension answers, press the FLASH key.**
Conference is now active.

Multiple stations can be conferenced by repeating steps 1-3.

EXTENSION CALLBACK/CAMP-ON

Rings back when the busy extension number becomes free.

Enable Extension Callback/Camp-On

1. **While receiving the busy signal in the earpiece, press *8.**
The telephone will beep once in the earpiece and the red COM light will blink quickly to notify you that Callback/Camp-On is enabled.
2. **Go on hook.**
The telephone will ring back when the extension becomes free. When you go off hook the other extension will ring.

Note that only one extension can be camped-on at one time.

COM CALLBACK/CAMP-ON

Rings back when the COM line becomes free.

Enable COM Callback/Camp-On

1. **Go off hook and listen for dial tone.**
2. **Press ***.
3. **Press 8.**
The telephone will beep once in the earpiece and the red COM light will blink quickly to notify you that COM Callback/Camp-On is enabled.
4. **Go on hook.**
The telephone will ring back when the COM line becomes free. Then you can go off hook (you will hear a dial tone) and dial the extension number.

Note: To enable COM Callback after getting a busy on the COM line, first go back on hook, then go off hook again and press *8.

Disable COM Callback/Camp-On

1. **Go off hook and listen for dial tone.**
2. **Press *.**
3. **Press 8.**
The telephone will beep twice in the earpiece and the red COM light will stop blinking to notify you that COM Callback/Camp-On is disabled.

DO NOT DISTURB (DND)

Turns off all rings at a particular station. This will affect both primary (8XX) and secondary (9XX) extensions.

Enable Do Not Disturb

1. **Go off hook and listen for dial tone.**
2. **Press *9.**
The telephone will beep once in the earpiece to notify you that DND is enabled.

Disable Do Not Disturb

1. **Go off hook and listen for dial tone.**
2. **Press **9.**
The telephone will beep twice in the earpiece to notify you that DND is disabled.

FLASH TIME ADJUST

Adjusts FLASH timing when using your telephone's FLASH key (if applicable).

1. **Go off hook and listen for dial tone.**
2. **Press **6.**
The telephone will beep once in the earpiece to notify you that a shorter FLASH time has been programmed. The telephone will beep twice in the earpiece to notify you that a longer FLASH time has been programmed. To change the current setting, press **6 again. There are only two settings.

This feature is used to adjust the length of the FLASH time on your telephone when the system is not responding properly. Due to the manufacturer definition of the FLASH function for their product, the FLASH key on some telephones may not work when used with the 314 System. In rare instances, your particular telephone's FLASH function is incompatible with the system. In this case, you can FLASH manually by using your telephone's hook switch. The 314 System comes configured with the shorter FLASH time.

SET UP – LINE RING PREFERENCE

Selects which telephone lines will ring at a particular station.

1. **Go off hook.**
2. **Press **4.**
The red line light will blink for Line 1.
3. **Using the touch-tone keypad, enter the number of rings to delay.**
The number key corresponds to the number of rings to delay before ringing your telephone on Line 1 (see the table below).

Number Key	Ring Delay
0	Ring immediately
2	Short delay (approx. one ring delay)
4	Long delay (approx. two ring delay)
9	Never rings

4. **Press 9, then 9 again.**
After these keys are pressed, the set up is complete.

Ring delay does not affect transferred calls and COM line calls. Ring delay is useful when you want certain telephones to ring before other telephones.

SYSTEM RESET

Resets the system back to system defaults.

1. **Go off hook.**
2. **Press **2.**
3. **Go on hook.**
After a short time, the red COM and LINE1 lights on the right side of the front panel will begin to blink. When the lights stop blinking, the system is ready to use again.

USING THE DOOR PHONE

Allows connection to one or two Door Phones and activates optional door locks from any phone. The COM line must be available in order to connect to the Door Phone.

To Answer a Door Phone

When the button on Door Phone 1 is pressed, all non-busy phones will emit three tones or short rings. When the button on Door Phone 2 is pressed, all non-busy phones will emit two tones or short rings.

1. **Go off hook and press *5.**
The system will automatically connect to the Door Phone that initiated the call. Two-way conversation through the Door Phone is now possible.
2. **If an optional door lock is installed, press *5 again to activate the door lock release mechanism.**
The door lock release mechanism will be activated for two seconds and then will relock. If required press *5 again to activate the door lock release mechanism subsequent times.
3. **To disconnect, hang up.**

To Call a Door Phone

1. **Go off hook and press #4 to access the COM line.**
2. **Press *5.**
The Door Phone (if two are installed, both Door Phones) will emit a tone and will automatically connect. Two-way conversation is now possible.
3. **To disconnect, hang up.**

SYSTEM OPERATOR FEATURES

The Operator Features describes those advanced system functions that can only be programmed and accessed by Station 0, extension 800, 900, or 0. "Operator Features" are those system functions that you would not want unauthorized users to access or change such as system configuration.

This section describes only the operator specific features for the Operator Phone. In addition, the Operator Phone has access to all of the standard user features listed in the various System Phone user manuals.

Note: The Operator Phone must be configured using a System Phone with the station number set to 0 (all switches down), NOT a standard telephone connected through an Adapter Box.

FEATURE OVERVIEW

<u>FEATURE</u>	<u>DESCRIPTION</u>
Hold Time Adjust	Sets the amount of time a call is placed on hold before it rings back.
Line Privacy Override	Allows one or more stations to interrupt/join calls on busy lines.
System/Station Reset	Resets the system or individual stations back to system defaults.

HOLD TIME ADJUST

Sets the amount of time a call is placed on hold before it rings back.

1. **While on hook, press FEATURE.**
2. **Press 0, press 3, then press 2.**
The telephone will beep once and the PROGRAM light will turn on.
3. **Using the touch-tone keypad, enter a single key, 0 - 9, for the amount of time (in minutes) a caller will be kept on hold. If set to 0, a call placed on hold will never ring back.**
The telephone will beep once and the PROGRAM light will turn off. If an invalid number is entered you will hear an error tone.

The system comes configured with the Hold Time set at one minute, the system default.

LINE PRIVACY OVERRIDE

Allows one or more stations the authority to interrupt/join calls on busy lines.

Enable Line Privacy Override

1. **While on hook, press FEATURE.**
2. **Press 0, press 2, then press 5.**
The telephone will beep once.
3. **Using the touch-tone keypad, enter the station number (00 - 13) that you want to have Line Privacy Override available on.**
The telephone will beep after a valid station number is entered.

Note: One-digit station numbers are preceded by 0. To modify all telephones at the same time, enter '99'.

4. **Press 1.**
The telephone will beep once to notify you that Line Privacy Override is enabled.

Disable Line Privacy Override

1. **Repeat the above steps 1-3.**
2. **Press 0.**
The telephone will beep twice to notify you that Line Privacy Override is disabled.

The system comes configured with Line Privacy Override disabled for all stations, system default. For example, if you enter station 03, then station 03 can interrupt/join any conversation on any line whether it is busy or not.

SYSTEM OR STATION RESET

Resets the system or individual stations back to system defaults.

1. **While on hook, press FEATURE.**
2. **Press 0, press 2, then press 7.**
The telephone will beep once and the PROGRAM light will turn on.
3. **Using the touch tone keypad, enter the following:**

Two-Digit	Description
00-13	Resets the specified station to system defaults. Speed dial memory locations are not affected.
66	Resets the Operator Features to system defaults.
99	Reset all stations & Operator Features to system defaults including speed-dial memory locations.*

The telephone will beep twice and the PROGRAM light will turn off.

Note: The system reset (99) can also be initiated by entering **2 on Station 1, the phone attached to the PHONE connector, see *Using the Internal Phone, System Reset*.

*This feature is completed when the red COM and LINE1 lights on the right side of the front panel stop blinking.

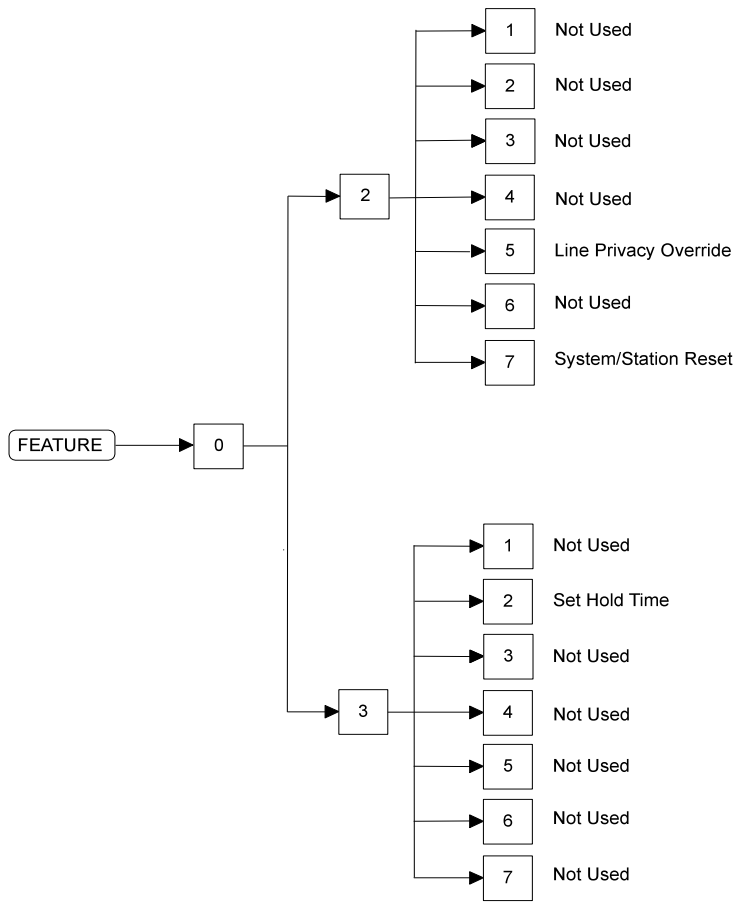
EEPROM BACKUP SETTING

Some system settings and memory numbers are stored in EEPROM. The following table shows which settings are backed up in EEPROM and the system default values the first time the system is powered up or after a full system reset.

SETTINGS/FEATURES	EEPROM BACKED	SYSTEM DEFAULT
Call Forwarding	No	Off
Callback/Camp-on	No	Off
Do Not Disturb (DND)	No	Off
Line Ring Preference	Yes	L1, L2, L3, COM
Headset Mode	Yes	Off
Flash Time	Yes	Normal (0.5 Sec)
Tone/Pulse	No	Tone
Memory/One Touch/Speed Dialing	Yes	None

SYSTEM OPERATOR FEATURES		
SETTINGS/FEATURES	EEPROM BACKED	SYSTEM DEFAULT
Hold Time Adjust	Yes	1 Minute
Line Privacy Override	Yes	None
Line and Toll Restriction	Yes	None
Allowed Toll Numbers	Yes	None
Line and Toll Password	Yes	None
Call Blocking	Yes	None
Area Codes and Prefix	Yes	No Area Code, Prefix=1

OPERATOR FEATURE FLOW CHART



REPLACING THE EPROM

1. **Unplug the Converter's power transformer from the wall outlet.**



CAUTION: Be careful to avoid casual and incidental contact with the heat sink as it may be hot.

2. **Remove the cover of the Converter by removing the 4 Phillips screws on the sides and then sliding the cover off.**
3. **Locate the EPROM, which is the only IC with a socket.**
Take special note of the direction of the notch on the EPROM. The notch is marked on the PC board.

Note: **Static control is required for handling all electronic equipment.** Both the Converter electronics and the EPROM can be damaged by static discharge. If a grounding strap is not available, **touch a metal portion of the Converter to drain any static charge** from your hands prior to handling the EPROM. Remove the old EPROM by gently prying at both ends with a very small screwdriver or use an electronic chip-pulling tool. Avoid touching other components on the PC board.

4. **Remove the new EPROM from the static protective case. Insert the new EPROM into the socket, MAKING SURE THE NOTCH ON THE CHIP IS IN THE CORRECT DIRECTION.**

Note: If the pins on the EPROM are not lined up with the insertion holes on the socket, it may be necessary to bend them slightly inward. To do this, grasp the EPROM by the ends being careful not to touch the pins. Place one pin side of the EPROM on a table with the pins pointing away from you. Apply firm pressure where the pins are attached to the EPROM, gently roll outward toward the ends of the pins. Repeat this process to bend the other row of pins.

GLOSSARY OF TERMS

DTMF – or "touch-tone" is an acronym for Dual Tone Multi-Frequency.

Error Tone - One low tone.

Extension Number - The number that is used to reference a particular station on the system. There are two extensions for each station, a primary and a secondary. The primary begins with '8' and the secondary begins with '9'. Each station has a unique lower two digits, varying from 0-13.

Flash - A flash occurs when the telephone is placed on hook for about half a second and then taken off hook again. Many telephones come with a key that does the equivalent.

Hook Switch - The switch that senses whether the telephone is hung up or not.

In-House Wire - The shared single twisted pair wire or telephone type cable that connects the Controller to all of the Adapter Boxes and System Phones.

Internal Line or COM Line - Communication channel used between two stations on the system.

Off hook - The state when the telephone handset is off the cradle. Going "off hook" means lifting the handset, or pressing the SPEAKER button or pressing a LINE SELECT KEY.

On hook - The state when the telephone handset is in the cradle. Going "on hook" means hanging up the handset or pressing the SPEAKER button.

Operator Features - Features that are only available at the Operator Phone, station 0.

Station - Either a System Phone or an Adapter Box.

System Phone – Either a Speaker Phone or a Monitor Phone.

Touch-Tone - The sounds that are created when a key is pressed on the standard telephone keypad.

REPAIR SERVICE

If you experience trouble with this telephone equipment, please contact Creative Integrated Systems, Inc., at 949-261-6577 for information on obtaining service or repairs. The telephone company may ask that you disconnect this equipment from the network until the problem has been corrected or until you are sure that the equipment is not malfunctioning.