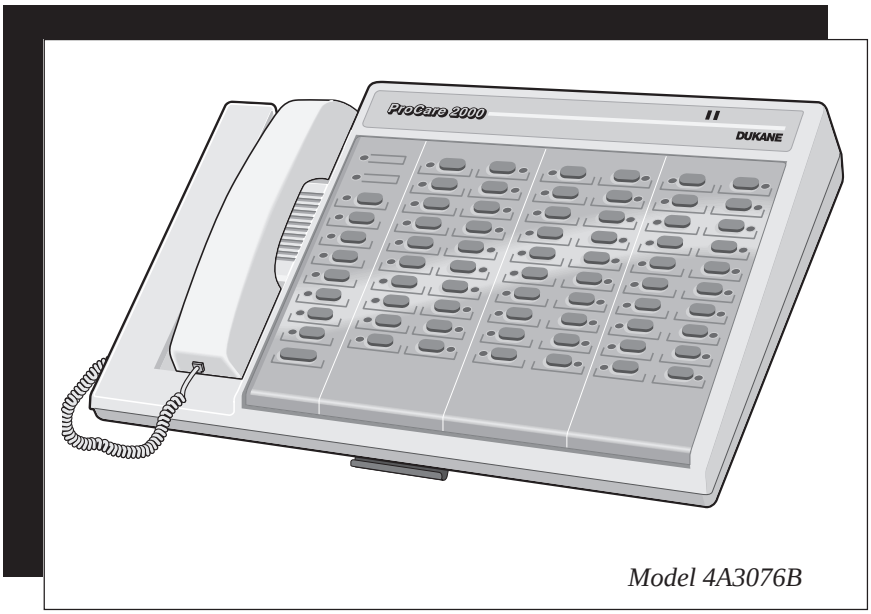
Communications Systems

DUKANE



Model 4A3076B

Operation Manual

ProCare

2000

Nurse Communications System

Document No. 427-07-00043 (05)

CSD TECH WRITING DOCUMENT CORRECTION FORM

Operating, installing, or servicing a communications product is often difficult without well-written, accurate documentation. Please help us ensure you get the best performance from your Dukane product by completing this form if you encounter any problems, or if you have any suggestions for the manual.

Please provide the following optional information so we can contact you if we need more feedback.

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Instructions

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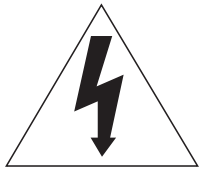
NOTICE

To ensure the performance of our products and systems, we may occasionally make technological changes and updates. Therefore, the model number suffixes (A, B, C, etc.) listed in the manual or in the drawings may not always match the model you are using. Unless specifically noted, this will not affect the product or its installation, operation, or service.

WARNING

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER OR BACK.

A lightning flash symbol within an equilateral triangle (see right) is a warning that dangerous, uninsulated voltage is present within the product's enclosure that may constitute an electric shock risk.



An exclamation point within an equilateral triangle (see right) tells the user that the accompanying text contains important equipment operating and maintenance (servicing) instructions.

Lithium Battery Warning

The lithium battery in the central processing unit may present a fire or chemical burn hazard if mishandled.

- Do not recharge, disassemble, incinerate, or heat the battery above 212° F.
- Dispose of used battery promptly.
- Replacement should be made by authorized personnel only.
- Replace the battery with the manufacturer's recommended replacement part only. Use of another battery may present a fire or explosion risk.

Equipment Handling Tips

General equipment safety handling tips should be followed.

- Do not open the unit, or remove covers or protective devices.
- Do not unplug any unit.
- Prevent flammables, water, and metallic objects from entering the unit.
- Do not subject any device to high levels of humidity, heat, or cold as these exposures may lead to functional problems and performance deterioration.
- Do not subject this equipment to excessive shock or vibration.
- Do not drop the master station or attempt to move it from its original, installed location.

Should any of these conditions occur, call authorized personnel.

continued

Safety Tips

Maintenance

Clean the unit by gently wiping with a soft cloth. The use of strong cleaning agents such as benzine or alcohol may damage the unit and should be avoided.

Special precautions should be taken to prevent cleaning agents from entering the unit.

Special Note

The operations and features described in this manual may not apply to every ProCare 2000 System. For a complete description of your system, consult with your hospital authority.

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Section 1
Features

General System

Microprocessor-Based Design
Use of the latest advancements in microprocessor technology ensures increased reliability and consistent, trouble-free operation.

System Coverage
A single system easily handles up to 80 stations (160 beds) to accommodate small to mid-size hospitals, and intermediate to long-term care facilities.

Quality Audio Performance
The sensitive speaker/microphone in the patient station, along with the responsive master station, results in clear, accurate, and intelligible communications.

Electrostatic Discharge (ESD) Protection
The system provides full protection against false calls and system failure resulting from electrostatic discharge.

Multiple Priority Levels
Two priority levels, normal and emergency, are easily distinguished at the master station by different tones and visual annunciations.

Nurse Follow
A staff member can leave the master station and have visual and audio annunciation of system calls forwarded to a selected room station.

Zone Monitor
The master station can monitor up to eight zones or groups of patient stations. Up to ten stations can be assigned to an individual zone. Rooms being monitored are alerted by the illumination of the privacy/monitor LED on their stations.

Zone Page (optional)
Optional paging equipment allows the master station operator to page multiple patient and staff stations simultaneously. The system can be configured for up to eight individual paging zones with up to ten stations per zone.

All Page (optional)
With the optional paging feature, paging can be distributed to all remote stations regardless of their specific zone assignments.

continued

(General System)

Assignable Emergency Priority (optional)
Stations in critical patients' rooms can be assigned emergency priority so that all calls from those stations annunciate as emergency calls. This option requires the 4A3100 Series enhanced patient station.

Master Station

Full Field LED Display
Selected system operations can be viewed quickly on this display.

Pushbutton Operation
Simple pushbutton operations, clearly labeled controls, and a built-in operational reference guide make this system easy to learn and use.

Multiple Parallel Masters
Each system provides increased staff communications through the use of up to four intercommunicating master stations. (The optional third and fourth masters require Model 437-00111 "B" firmware or greater.) The additional masters allow personnel to respond to calls in the system without returning to the main nursing station.

User-Changeable Button Designations
System function designations such as ERROR, BUSY, and SYSERR are preprinted on the unit. Labels for other button functions are included and can be changed as required. All label designations are protected by a clear plastic overlay.

Reminder (optional)
Stations can be placed on reminder when staff are not immediately available to answer non-critical patient calls. A new call is automatically placed when a programmable time from one to ten minutes has elapsed. This option requires the 4A3100 Series enhanced patient station and an extra lamp in the corridor light.

Remote Stations

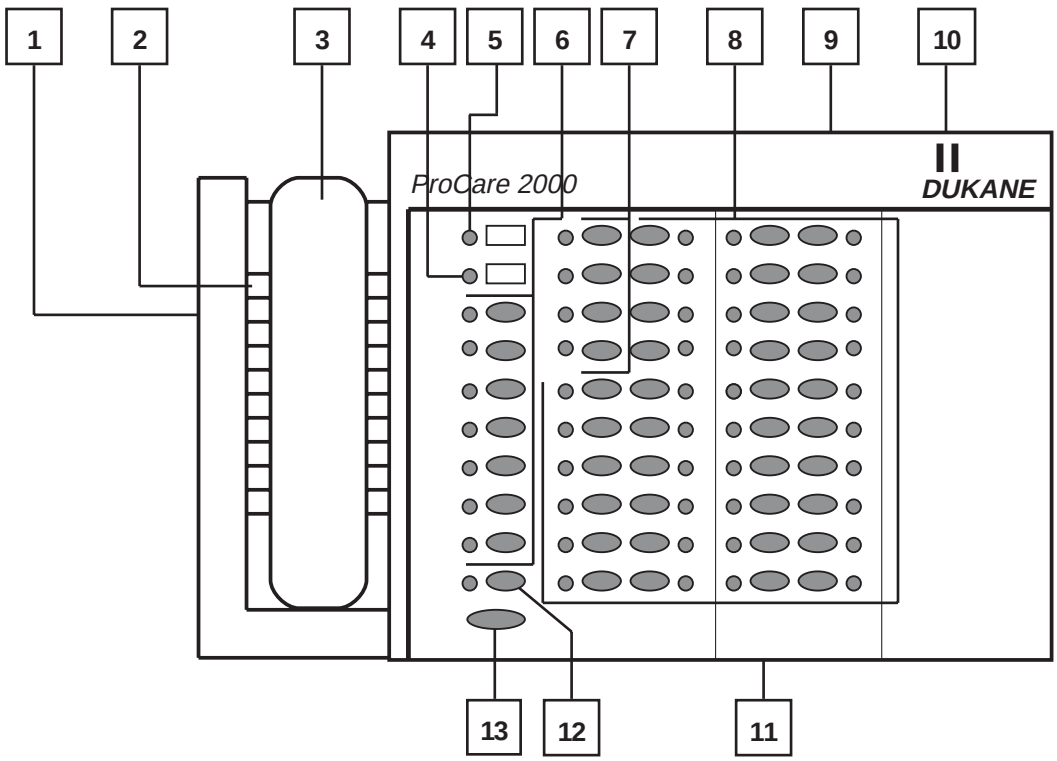
Sensitive Touch Pad Controls
The smooth, responsive touch pad controls resist wear.

LED Indicators
Large, bright LED indicators allow patients and staff to confirm that they have placed a call, or that they are in communication with a master station.

Entertainment Options
With the entertainment option, the pillow speakers control the radio/TV volume, channel selection, and low voltage lighting control as well as the nurse call functions.

Adjustable Duty Station Call Tone
The call tone volume level at the duty station can be adjusted for high or low level (night operation).

Section 2
Master Station Controls and Operation



Master Station Controls

1 **Speaker Volume Control**
Rotate this control until speaker volume is at the desired incoming audio level.
Note:
This adjustment has no effect on the handset volume.

2 **Speaker**
The speaker allows communication from, and monitoring of, remote stations.

3 **Handset**
The keyless handset allows direct, private interstation communication and optional paging. Returning the handset to its cradle ends communication with another station.

4 **BUSY Indicator**
This LED flashes slowly when the master station is idle to indicate that the master station is in normal operating condition. The LED stays lit when any master station in the system is communicating with another station.

continued

(Master Station Controls)

5 **ERROR Indicator**
This LED flashes briefly when an invalid operation is attempted at the master station.

The LED flashes rapidly when communication cannot be made between the master station and its central equipment cabinet. (Call authorized personnel for assistance.)

If the LED flashes slowly, it may be an indication that the backup battery in the central equipment cabinet is running low. If the LED is dim, call authorized personnel for assistance.

6 **Operation Mode Pushbuttons with LED Indicators**
IMPORTANT NOTE:
Some operation mode pushbuttons on your master station may not be labeled. These pushbuttons have no functions assigned to them at this time. This is not a master station defect.

SILENT/VOLUME Pushbutton and LED (see page 11, **Silencing Tones** and **Adjusting the Tone Level**)
This pushbutton lets you set the annunciate tone volume level or temporarily disable the tones for normal and emergency calls.

Pressing this pushbutton while the call annunciate tone is sounding silences the tone for the current call. The tone sounds again when a subsequent call is received. The SILENT/VOLUME LED is lit during the silencing period, and goes out when the silencing period expires.

Pressing the ALT/TEST pushbutton, then the SILENT/VOLUME pushbutton lets you adjust the annunciate tone volume level.

MASTER/SYSERR Pushbutton and LED (see page 12, **Calling Another Master Station in the Same System**)
When there is more than one master station in the same system, this pushbutton lets you begin and end communication with another master station.

The MASTER/SYSERR LED flashes when another master station in the system is calling in. It stays lit during active communication between master stations, and goes out when communication between masters is ended.

If an error has been detected in the system, pressing the ALT/TEST pushbutton, then the MASTER/SYSERR pushbutton lights an LED that indicates the specific error condition.

ZONE/SHIFT Pushbutton and LED (see page 14, **Paging a Zone**)
This button allows you to select a zone for zone paging and zone monitoring.

The ZONE/SHIFT LED lights to indicate that the master station is in the zone monitoring or zone paging mode.

(Master Station Controls)

ALL PAGE/TIME Pushbutton and LED (see page 14, **Paging**)
This pushbutton lets you use the handset to make a page announcement to all the audio-capable remote stations. It is also used to end the all page.

The ALL PAGE LED lights during an all page and goes out when paging is completed.

FOLLOW Pushbutton and LED (see page 15, **Staff Follow**)
This pushbutton lets you designate an audio-capable remote station to receive calls automatically transferred from an unattended master station. It can also be used to identify the follow station and to cancel a remote station follow designation.

The FOLLOW LED flashes when a remote station is designated as a follow station. When that station is removed from its follow station status, this LED goes out.

REMIND Pushbutton and LED (see page 16, **Reminder**)
This pushbutton places a remote station on reminder, which silences the call annunciate tone, and flashes the associated green corridor and zone lights for a programmed length of time. This pushbutton can also be used to review stations placed on reminder.

The REMIND LED flashes when any remote station call is placed on reminder. When all stations are removed from reminder status, this LED goes out.

PRIORITY/LOCK Pushbutton and LED (see page 17, **Programmed Emergency Priority**)
This pushbutton lets you program any enhanced patient station's calls to register as an emergency priority call at the master station. The patient station's associated corridor/zone lights flash white when a programmed emergency call is received. Stations can be previewed, set, and cleared at the master.

The PRIORITY LED flashes when any remote station is assigned an emergency priority status. When all stations are removed from programmed emergency status, this LED goes out.

7 **Tone Level Adjustment Pushbuttons** (See page 11, **Adjusting the Tone Level**)
When in the tone level adjustment mode, these four buttons can be used to set the volume level of the annunciation tones at the master station.

continued

(Master Station Controls)

8 **Remote Station Buttons and LEDs**

Pressing one of these pushbuttons begins or ends communication with the assigned remote station. These pushbuttons can also be used for:

- Monitoring a station or zone.
- Paging a zone.
- Forwarding a call's indication to another remote location.
- Setting the reminder feature.
- Setting and clearing the programmed emergency priority feature.

When a remote station call is being made to any master station in this system, that station's assigned LED flashes on and off. When the call to the master station is answered, the LED stops blinking and remains lit until communication with that station is completed, which causes the LED to go out.

9 **Reset Pushbutton**

Do not press this pushbutton without authorization. System operations will be interrupted.

10 **Microphone**

The microphone is used to communicate with remote stations when the handset is not used.

11 **Pull-Out Quick Reference Guide**

Step-by-step procedures of the most frequently used operations are provided in this handy pull-out drawer built into the master station.

12 **ALT/TEST Pushbutton with LED** (see page 11, **Adjusting the Tone Level**)

This button and LED combination is used during tone level adjustment and is used by service personnel to review specific system error conditions.

13 **PUSH TO TALK Pushbutton**

This pushbutton lets you toggle between listening and talking when using the microphone and speaker for communication.

Important Master Station Indicators

The BUSY Indicator:

- — flashes slowly when there are no calls present in the system, to indicate that the master station is functioning properly.
- — stays lit when there is active communication at either master station.

The ERROR Indicator:

- — flashes briefly when an invalid procedure is attempted at a master station.
- — flashes rapidly when a master station cannot communicate with the central equipment. Call authorized personnel for assistance.
- — flashes slowly when the central equipment backup battery is low or some other system error condition exists. Call authorized personnel for assistance.

Note:
If the ERROR LED is dimly lit, call facility maintenance.

Priority Levels

The master station recognizes two call priority levels: normal and emergency. Normal calls are annunciated with a slow tone and slow LED flash rate. Emergency priority calls are annunciated with rapid tone and flash rates. Emergency calls are the result of a lavatory station call, a call from an enhanced patient station programmed for emergency priority, or the removal of a call cord from a patient station.

Note:
The tone rates can be adjusted by the inclusion of B, C, or D firmware kits. If one of these kits are installed, refer to manual 427-18-00001 for operational information.

System Response Chart

ACTION IN PROGRESS	RESPONSE GENERATED					
	Master Station	**Patient Station**	**Duty Station**	**Corridor Light**	**Zone Light**	**Follow Station**
Normal Call to Master	Slow Tone Slow Flash	Steady Light	Slow Tone Slow Flash	Steady White	Steady White	Moderate Tone Moderate Flash
Emergency Call to Master	Rapid Tone Rapid Flash	Rapid Flash	Rapid Tone Rapid Flash	Flashing Red	Flashing Red	Rapid Tone Rapid Flash
Programmed Emergency Call to Master	Rapid Tone Rapid Flash	Rapid Flash	Rapid Tone Rapid Flash	Flashing White	Flashing White	Rapid Tone Rapid Flash
Silence Normal Call at Master	No Tone Slow Flash	Steady Light	Slow Tone Slow Flash	Steady White	Steady White	Moderate Tone Moderate Flash
Silence Emergency Call at Master	No Tone Rapid Flash	Rapid Flash	Rapid Tone Rapid Flash	Flashing Red	Flashing Red	Rapid Tone Rapid Flash
Silence Programmed Emergency Call at Master	No Tone Rapid Flash	Rapid Flash	Rapid Tone Rapid Flash	Flashing White	Flashing White	Rapid Tone Rapid Flash
Follow Station (no calls in system)	Follow Station LED flashes slowly	— —	— —	— —	— —	No Tone Slow Flash
Staff Emergency Calls	Very Rapid Tone Very Rapid Flash	Rapid Flash	Rapid Tone Rapid Flash	Flashing Green	Flashing Green	Very Rapid Tone Very Rapid Flash
Code Blue Calls	Very Rapid Tone Very Rapid Flash	Rapid Flash	Rapid Tone Rapid Flash	Flashing Amber	Flashing Amber	Very Rapid Tone Very Rapid Flash
Reminder	Remind LED flashes slowly	Slow Flash	—	Slow Flash Green	Slow Flash Green	—

Responding to a Call

Calls from remote stations are annunciated at the master station by an intermittent tone and a flashing LED alongside the corresponding station's pushbutton. The flash and tone rates indicate the call's priority. Emergency priority calls annunciate at a faster rate than normal calls.

Calls can be answered using either the master station microphone or the handset. Normal priority calls can be canceled at the master station; emergency priority calls must be canceled at the originating station.

Using the Microphone/Speaker

1. Make sure the handset is in its cradle.

2. Press the numbered pushbutton next to the flashing LED. The indicator LED stops flashing and remains lit.

3. To talk, press and hold the PUSH TO TALK button.

4. To listen, release the PUSH TO TALK button.

5. To end communication with that station, press its numbered pushbutton again. The indicator LED on the master station goes out.

   Note:
   If private conversation is desired, the handset can be picked up at any time during the call. To end the call, return the handset to its cradle.

Using the Handset

1. Remove the handset from its cradle.

2. Press the numbered pushbutton next to the flashing LED. The indicator LED stops flashing and remains lit.

3. Talk into the handset as you would a conventional telephone receiver.

4. To end communication, either return the handset to its cradle or press the calling station's pushbutton again. The indicator LED on the master station goes out.

   Note:
   Emergency priority calls can only be canceled at the originating station by pressing the CANCEL touchpad.

(Responding to a Call)

Responding to a Call from Another Master Station in the System

1. When the MASTER/SYSERR LED flashes, remove the handset from its cradle.
2. Press the pushbutton next to the flashing MASTER/SYSERR LED. The LED stops flashing and remains lit.
3. Talk into the handset as you would a conventional telephone receiver.
4. To end communication, either return the handset to its cradle or press the MASTER/SYSERR pushbutton again.

Responding to a Call from a Master Station in Another System (requires optional Inter-System Station)

1. When the INTER-SYSTEM LED flashes, remove the handset from its cradle.
2. Press the pushbutton next to the flashing INTER-SYSTEM LED. The LED stops flashing and remains lit.
3. Talk into the handset as you would a conventional telephone receiver.
4. To end communication, either return the handset to its cradle or press the INTER-SYSTEM pushbutton again.

Emergency Calls

Emergency calls are automatically placed whenever a bedside call cord is removed from its receptacle, when a call is placed from a patient station programmed to register as an emergency call, or when a lavatory call is placed. These calls are indicated at the master station by fast tone and indicator rates, and must be canceled at the originating station. To cancel an emergency call, replace the call cord (if necessary) and press the CANCEL touchpad at the station that placed the call.

Silencing Tones

1. Press the SILENT/VOLUME pushbutton once to temporarily disable all the sounding tones at the master station. The associated LED indicators continue to flash.

2. Press the SILENT/VOLUME pushbutton again to restore the tones.

Notes:
- The SILENT/VOLUME LED flashes when a call from any station is silenced.
- Silence is automatically canceled after a programmable length of time.
- When any audio communication is made at the master station, the silence option is canceled and the tones sound.
- Calls received after you press SILENT/VOLUME will sound.
- The duty station tone continues sounding when the tones have been silenced at the master station.
- The call assurance LEDs on the patient stations and the corridor/zone lamps remain lit until the calls are canceled.

Adjusting the Tone Level

The volume of the tones at the master station can be adjusted using the following procedure.

1. Press the ALT/TEST and SILENT/VOLUME pushbuttons on the master station to enter tone adjustment mode.

2. The first four pushbuttons at the top of the first row of stations illuminate. These pushbuttons control the tone levels. The brightest LED indicates the current tone level. The uppermost pushbutton is the lowest tone level; the fourth pushbutton is the highest level. Pushbuttons 2 and 3 provide intermediate tone levels. Select the pushbutton that provides the desired tone level.

3. When finished, press ALT/TEST or SILENT/VOLUME.

Placing Calls

You can call any audio-capable remote station. Calls can be made to patient stations, staff stations, staff/duty stations, another master station in the system, and master stations outside the system (when optional inter-system stations are present).

Calling a Remote Station

1. Lift the handset or use the microphone/speaker for intercom.

2. Press the button corresponding to the station you wish to call. The associated remote station LED on the master station lights. If calling a patient or staff station, that station's privacy LED lights.

continued

3. If using the microphone/speaker, press the PUSH TO TALK button to talk, and release it to listen. If using the handset, talk into it as you would a conventional telephone receiver.

4. When conversation is finished, return the handset to its cradle or press the station button again. The remote station LED on the master station goes out. The patient or duty station privacy LED goes out.

Calling Another Master Station in the Same System

1. Remove the handset from its cradle.

2. Press the MASTER/SYSERR pushbutton. The MASTER/SYSERR indicator LED lights.

3. Talk into the handset as you would a conventional telephone receiver.

4. When conversation is finished, return the handset to its cradle or press the MASTER/SYSERR pushbutton again. The MASTER/SYSERR indicator LED goes out.

Calling a Master Station in Another System (requires optional Inter-System Station)

1. Remove the handset from its cradle.

2. Press the desired INTER-SYSTEM pushbutton (each system can have more than one inter-system station). The indicator LED lights. Wait for the call to be answered.

3. Talk into the handset as you would a conventional telephone receiver.

4. When conversation is finished, return the handset to its cradle or press the INTER-SYSTEM pushbutton again. The indicator LED goes out.

Monitoring

Up to eight preassigned zones, with up to 10 remote (patient, staff, and staff/duty) audio stations in each zone, can be monitored from the master station. During monitoring, the LED indicators of the monitored stations light on the master station. The privacy LED lights on the remote stations being monitored. The volume level of the incoming audio can be adjusted at the master station (see **Volume Level Control** below).

Volume Level Control

Incoming audio can be adjusted during monitoring by rotating the volume control on the left side panel of the master station until the sound coming through the speaker is at the desired level.

Note:
This adjustment has no effect on the handset volume.

Monitoring a Remote Station

1. To monitor a remote station, press the pushbutton corresponding to the desired remote station. The remote station LED on the master station lights. The red privacy LED on the patient (or staff, or staff/duty) station also lights.

2. Use either the handset or the microphone/speaker to monitor the station.

3. Return the handset to its cradle or press the remote station pushbutton again to end monitoring.

Monitoring a Zone of Remote Stations

1. Make sure the handset is in its cradle.

2. Press the ZONE pushbutton.

3. Press the numbered button of any remote station in the zone you wish to monitor. This lights the LEDs of all remote stations in that zone. You will now hear audio from all of these stations through the microphone/speaker.

4. Press ZONE again to end zone monitoring.

(Monitoring)

Locating a Station in Distress

Press the ZONE pushbutton to exit zone monitoring, if in operation, then press each remote station button sequentially while pausing briefly to monitor the activities of each station.

Monitoring Notes:

— You can talk to remote stations in the monitored zone by removing the handset from the cradle and speaking into the handset. Return the handset to its cradle when finished; zone monitoring is automatically canceled.

— Incoming calls annunciate normally during monitoring. Answer the call by pressing the ZONE button to cancel zone monitoring, then pressing the numbered button next to the flashing LED (or lifting the handset and pressing the numbered button next to the flashing LED).

— Incoming audio can be adjusted during monitoring. (See **Volume Level Control** on page 13.)

Paging

The handset on the master station can be used to page one zone or all remote stations in the system capable of receiving audio. The optional paging equipment must be present in the system, and the master station must be programmed for the paging functions.

Paging All Stations

1. Remove the handset from its cradle.
2. Press the ALL PAGE pushbutton. The LED next to the ALL PAGE pushbutton lights.
3. Make the page announcement using the handset.
4. Return the handset to its cradle or press the ALL PAGE pushbutton again when finished making the page. The LED next to the ALL PAGE pushbutton goes out.

Paging a Zone

1. Remove the handset from its cradle.
2. Press the ZONE pushbutton. The LED next to the pushbutton lights.
3. Press any remote station pushbutton within that zone. The LEDs of all remote stations in that zone will light (see **Monitoring Notes** above).

4. Make the page announcement using the handset.

5. Return the handset to its cradle or press the ZONE pushbutton again. The ZONE LED indicator goes out.

Zone Assignment Notes:
Stations can be reassigned to zones as needed. Consult with authorized personnel if this needs to be done.

Staff Follow

Staff follow lets staff members leave the master station and have incoming calls forwarded to another audio-capable remote station in the system.

Staff Follow Notes:
— A station placed on reminder cannot be set on follow.
— The follow feature is temporarily disabled when the system is busy (the master station is in communication with any station).

Placing a Remote Station on Follow

1. Press the FOLLOW pushbutton. The LED indicator lights.
   Note:
   If a station is already designated as a follow station, its indicator LED will light when the FOLLOW button is pushed. To remove a follow designation, see **Removing a Remote Station from Follow** page16.

2. Press the numbered pushbutton of the station to be placed on follow. That station's LED indicator lights.

3. Press the FOLLOW pushbutton again to return the master station to its normal functions. All incoming calls are now forwarded to the follow station.
   The follow station's red PRIVACY LED flashes slowly.

4. Any call placed in the system is forwarded to the follow station. The follow station's red PRIVACY LED flashes at a moderate rate for normal priority calls, and at a rapid rate for emergency calls. The appropriate tone sounds through the follow station speaker.

   The tone can be silenced by pressing the remote station's CALL pushbutton, then immediately pressing its CANCEL touchpad. This also removes the remote station from the follow designation.

continued

(Staff Follow)

5. To check the follow designation at the master station, press the FOLLOW pushbutton. The LED indicator next to the designated follow station pushbutton lights.

6. Press FOLLOW again to return the master station to normal operation.

Note:
The FOLLOW pushbutton LED at the master station flashes whenever any remote station is assigned as a follow station.

Removing a Remote Station from Follow

Note:
FOLLOW can be removed from either the master or the follow station. Only one of the following procedures should be performed.

At the master station:

1. Press the FOLLOW pushbutton. The LED indicator next to the follow station pushbutton lights.

2. Press the pushbutton of the follow station. The follow station LED indicator goes out.

3. Press the FOLLOW button again. The FOLLOW LED indicator goes out. The station is now removed from its follow designation.

At the follow station:
Press the CALL pushbutton. Within 2–3 seconds press the CANCEL pushbutton. The station is now removed from its follow designation.

Reminder

Reminder lets staff members delay answering non-critical calls by setting the calling remote station to place a new call after a programmed length of time. Only 4A3100 Series enhanced stations can be placed on reminder. The reminder feature can be disabled during system configuration.

Reminder Notes

— A station designated for FOLLOW cannot be set on reminder.
— Stations placing calls with a lavatory emergency priority or higher cannot be placed on reminder.

(Reminder)

Placing a Remote Station on Reminder

1. Connect to the calling station by pressing that station's numbered pushbutton.

2. Press the REMIND pushbutton. The REMIND LED lights, and the green sections in the corridor and zone lights flash. The calling station's call assurance LED flashes.

3. Press the calling station's pushbutton again to disconnect audio. The REMIND LED on the master flashes during the reminder time-out period.

4. If the call is not canceled before the reminder time-out period elapses (one to ten minutes), the station automatically places a new call to the master.

Reviewing the Stations Placed on Reminder

The REMIND LED flashes when the master is idle and one or more stations have been placed on reminder.

1. Press any station's numbered pushbutton. The REMIND indicator LED lights steadily if that station is on reminder.

   — or —

2. Press the REMIND pushbutton while the master is idle. The LED indicators of all stations placed on reminder will light. Stations cannot be removed from reminder in this state. Press REMIND again to return the master to idle.

Removing a Remote Station from Reminder

You can cancel a station's reminder at any time by pressing the CANCEL touchpad at the remote station originating the call.

Programmed Emergency Priority

This feature lets you assign emergency priority to any call placed from selected enhanced patient or staff stations. Only 4A3100 Series Enhanced Stations can be assigned emergency priority. You can assign any number of enhanced stations to place emergency priority calls. Every call placed by such a station is treated and annunciated as an emergency call by the system except that the corridor and zone lights flash white for these calls instead of red. Programmed emergency calls cannot be canceled from the master station; the originating station's CANCEL touchpad must be pressed. These calls can be placed on reminder like other calls.

Important Note:
Stations assigned programmed emergency priority cannot be set for follow.

(Programmed Emergency Priority)

Placing Stations on Programmed Emergency

1. Contact the calling station by pressing that station's numbered pushbutton. The PRIORITY/LOCK LED indicator lights if the called station already has emergency priority status.

2. Press the PRIORITY/LOCK pushbutton to change the station's emergency priority status. The PRIORITY/LOCK LED will either light or extinguish to reflect the status change.

3. Press the calling station's pushbutton again to disconnect from the station. The PRIORITY/LOCK LED on the master flashes while any station is set to emergency priority.

Reviewing the Stations Placed on Emergency Priority

The PRIORITY/LOCK LED flashes when the master is idle and one or more stations have emergency priority status.

1. Press any station's numbered pushbutton. The PRIORITY/LOCK LED lights steadily if that station has emergency priority.

   — or —

2. Press the PRIORITY/LOCK pushbutton while the master is idle. The LED indicators of all stations having emergency priority light. Press PRIORITY/LOCK again to return the master to idle.

Removing Stations from Programmed Emergency

1. Contact the station by pressing its numbered pushbutton. The PRIORITY/LOCK LED indicator lights if the called station has emergency priority status.

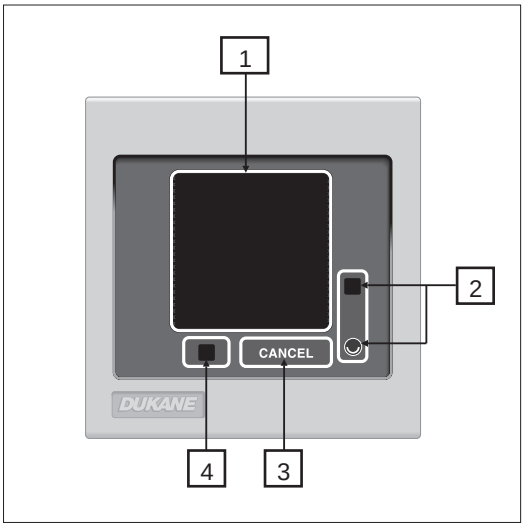
2. Press the PRIORITY/LOCK pushbutton to change the station's emergency priority status.

   — or —

1. Press the PRIORITY/LOCK pushbutton while the master is idle. The LED indicators of all stations having emergency priority light.

2. Press the pushbuttons of the stations you want to remove from emergency priority. Press PRIORITY/LOCK again to return the master to idle.

Section 3
Patient Station Controls and Operation



Single Patient Station

Models 4A3080 and 4A3180 Enhanced

A patient at this station uses a call cord to place a normal or emergency call to the master station. Calls are indicated at the master station and at the duty stations, and at the associated corridor and zone lights. The enhanced 4A3180 allows the use of the ProCare 2000 System's reminder and programmed emergency features.

1 **Speaker/Microphone**
This sensitive speaker/microphone allows two-way voice communications between a person in the room and the attendant at the associated master station. Hands-free operation provides direct interactive communication through the station panel.

2 **Call Cord Receptacle with Adjacent Amber Call Assurance LED**
This receptacle accommodates all standard Dukane call cord devices not requiring entertainment. Unplugging the call device from the receptacle automatically places an emergency priority call that can only be canceled by reinserting the call device and pressing the CANCEL touchpad.

The amber LED lights each time a call is placed from this station and remains lit until the call is answered from the master station or canceled at this patient station. Call priority is indicated by either a steady illumination of the amber LED for normal calls, or a rapidly flashing LED for emergency calls. The LED flashes slowly if the enhanced station is placed on reminder.

continued

(Single Patient Station

Models 4A3080 and 4A3180 Enhanced)

3 **CANCEL Touchpad**

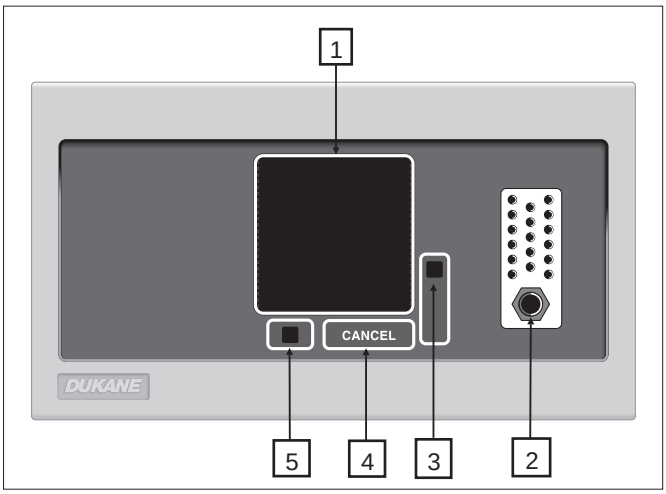
Pressing CANCEL cancels any pending call placed from this station, and/or removes the station from reminder status.

4 **Red Privacy LED**

This red privacy LED lights whenever this station is in the intercommunication mode or when it is being monitored by a master station.

Single Patient Station with Entertainment

Models 4A3081A and 4A3181A Enhanced



A patient at this station uses a call cord or pillow speaker to place a normal or emergency call to the master station. Calls are indicated at the master station and the duty stations, and at the associated corridor and zone lights. The enhanced 4A3181A allows use of the ProCare 2000 System's reminder and programmed emergency features. A front panel multi-pin receptacle allows this patient station to be used with call cords or with pillow speakers that control radio and TV functions.

1 **Speaker/Microphone**
This sensitive speaker/microphone allows two-way voice communications between a person in the room and the attendant at the associated master station. This hands-free operation provides direct interactive communication through the station panel.

2 **Entertainment Option Receptacle**
This multi-pin connector accommodates all standard Dukane call cords and allows the use of a pillow speaker. The pillow speaker allows the patient to place a call to the associated master station and control TV functions. Intercommunication takes place through the patient station speaker/microphone.

Unplugging the call device from the receptacle automatically places an emergency priority call that can only be canceled by reinserting the call device and pressing the CANCEL touchpad.

3 **Amber Call Assurance LED**
The amber LED lights each time a call is placed from this station and remains lit until the call is answered from the master station or canceled at this patient station. Call priority is indicated by either a steady illumination of the amber LED for normal calls, or a rapidly flashing LED for emergency calls. The LED also flashes slowly if the enhanced station is placed on reminder.

continued

(Single Patient Station with Entertainment

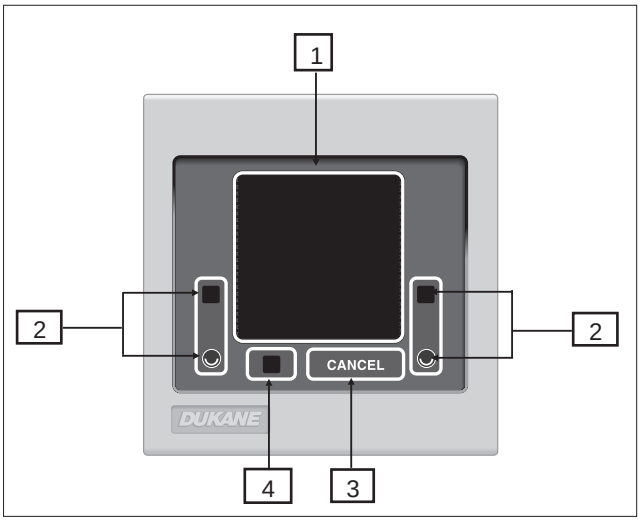
Models 4A3081A and 4A3181A Enhanced)

4 **CANCEL Touchpad**
Pressing CANCEL cancels any pending call placed from this station, and/or removes the station from reminder status.

5 **Red Privacy LED**
This red privacy LED lights when this station is in the intercommunication mode or when it is being monitored by a master station.

Dual Patient Station

Models 4A3085A and 4A3185 Enhanced



Two patients can place normal or emergency calls to the master station using individual call cords. A call from either patient is indicated as a single station call at the master and duty stations. Placing a call illuminates the room's associated corridor and zone lights. The enhanced 4A3185 allows use of the ProCare 2000 System's reminder and programmed emergency features. Also with the enhanced model only, if both patients call at the same time, the calls will be handled in the order that they were placed.

1 **Speaker/Microphone**

The speaker/microphone allows two-way voice communication between a person in the room and the attendant at the master station. This hands-free operation provides direct, interactive communication through the station panel.

2 **Call Cord Receptacle with Adjacent Amber Call Assurance LED**

The two call cord receptacles (one for each patient) accommodate all standard Dukane call cord devices without entertainment. Unplugging a call cord from a receptacle automatically places an emergency priority call that can be canceled only by reinserting the call cord and pressing the CANCEL touchpad.

The amber LED lights each time a call is placed and remains lit until the call is answered at the master station or canceled at the originating patient station. It illuminates for a normal call and flashes rapidly to signify an emergency call. The LED also flashes slowly if the enhanced station is placed on reminder.

3 **CANCEL Touchpad**

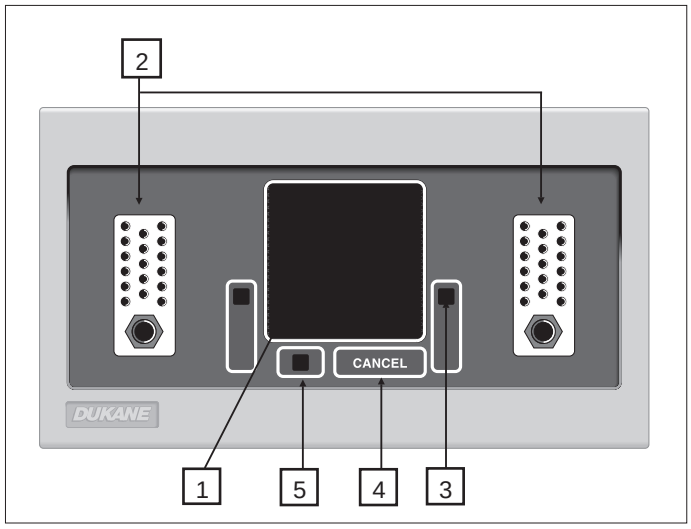
Press to cancel any call placed from this station or to remove the station from reminder status.

4 **Red Privacy LED**

The red privacy LED lights when this station is in the intercommunication mode or when it is being monitored by a master station.

Dual Patient Station with Entertainment

Models 4A3086A and 4A3186A Enhanced



Two patients can use individual call cords or pillow speakers to place a normal or emergency call to the master station. A call from either patient is indicated as a single station call at the master station, at the duty stations, and at the associated corridor and zone lights. The enhanced 4A3186A allows use of the ProCare 2000 System's reminder and programmed emergency features. A front panel multi-pin receptacle allows this patient station to be used with switch plugs and call cords, or with pillow speakers that control TV and radio functions.

1 **Speaker/Microphone**

This sensitive speaker/microphone allows two-way voice communication between a person in the room and the attendant at the associated master station. This hands-free operation provides direct, interactive communication through the station panel.

2 **Entertainment Option Receptacles**

These multi-pin connectors accommodate all standard Dukane call cords and allow the use of a pillow speaker. The patient can use the pillow speaker to place a call to the associated master station or to control TV functions. Intercommunication takes place through the patient station's speaker/microphone.

Unplugging the call device from the receptacle automatically places an emergency priority call that can only be canceled by reinserting the call device and pressing the CANCEL touchpad.

3 **Amber Call Assurance LED**

The amber LED lights each time a call is placed from this station and remains lit until the call is answered from the master station or canceled at this patient station. Call priority is indicated by either a steady illumination of the amber LED for normal calls, or a rapidly flashing LED for emergency calls. The LED flashes slowly if the enhanced station is placed on reminder.

4 **CANCEL Touchpad**
Press this touchpad to cancel any pending call placed from this station or to remove the station from reminder status.

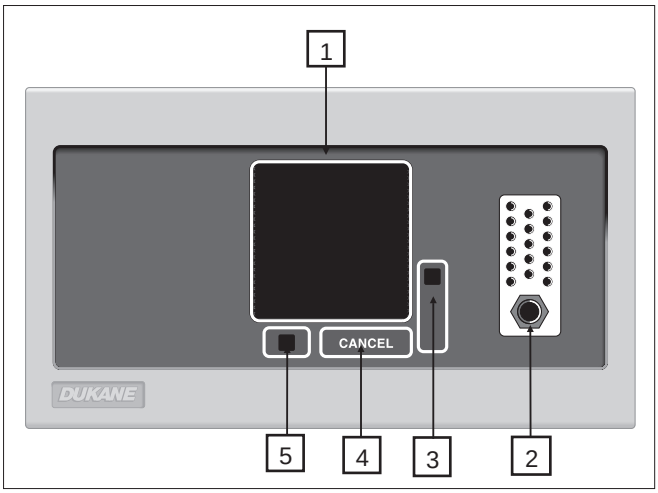
5 **Red Privacy LED**
The red privacy LED lights when this station is in the intercommunication mode or when it is being monitored by a master station.

(Dual Patient Station with Entertainment

Models 4A3086A and 4A3186A Enhanced)

Single Patient Station with Pillow Speaker Intercom

Model 4A3182 Enhanced



A patient at this station uses a call cord or pillow speaker to place a normal or emergency call to the master station. Calls are indicated at the master station and at the duty stations, and at the associated corridor and zone lights. The enhanced 4A3182 allows use of the ProCare 2000 System's reminder and programmed emergency features. A front panel multi-pin receptacle allows this patient station to be used with call cords or with pillow speakers that control TV functions. While the pillow speaker is unplugged, two-way communication automatically reverts to the station speaker/microphone.

1 **Speaker/Microphone**

The speaker/microphone allows two-way voice communication between a person in the room and the attendant at the associated master station when a pillow speaker is not used. Hands-free operation provides direct interactive communication through the station panel.

2 **Entertainment Option Receptacle**

This multi-pin connector accommodates all standard Dukane call cords and allows the use of a pillow speaker. Using the pillow speaker the patient can place a call to the associated master station and control TV functions. When a pillow speaker is installed, intercommunication takes place through the pillow speaker, and entertainment audio is muted.

Unplugging the call device from the receptacle automatically places an emergency priority call that can only be canceled by reinserting the call device and pressing the CANCEL touchpad.

3 **Amber Call Assurance LED**

The amber LED lights each time a call is placed from this station and remains lit until the call is answered from the master station or canceled at this patient station. Call priority is indicated by either a steady illumination of the amber LED for normal calls or a rapidly flashing LED for emergency calls. The LED flashes slowly if the station is placed on reminder.

4 **CANCEL Touchpad**
Press this touchpad to cancel any pending call placed from this station or to remove the station from reminder status.

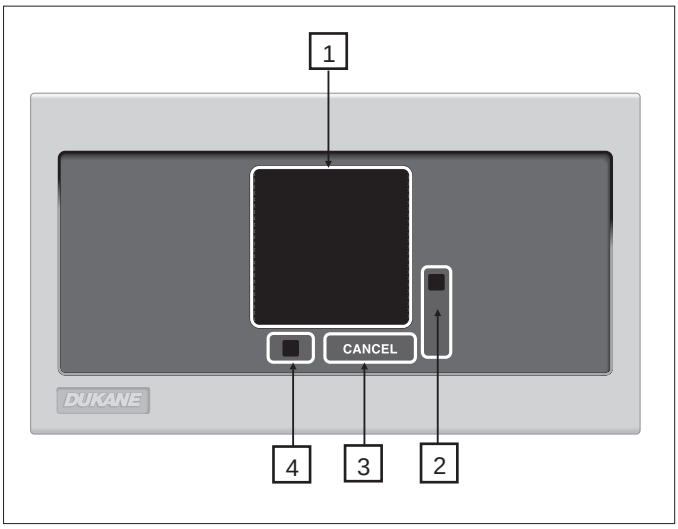
5 **Red Privacy LED**
The red privacy LED lights when this station is in the intercommunication mode or when it is being monitored by a master station.

(Single Patient Station with Pillow Speaker Intercom

Model 4A3182 Enhanced)

Special Purpose Single Patient Station

Model 4A3183



This patient station is normally used in conjunction with a bed safety rail communication system. A pillow speaker can be substituted for the bed rail communication system. The patient can place a normal call or emergency call to the master station through the bed rail system or through the pillow speaker. All calls made from this station are indicated at the master station, at the duty stations, and at the corresponding corridor and zone lights. A call is canceled by pressing the CANCEL touchpad at the patient station, or by answering the call at the master station and communicating with the patient through the bed communications panel.

Removal of the bed communications cord is received as an emergency call at the master station. This call is canceled by replacing the bed communications cord, pillow speaker, or dummy plug (supplied by the bed manufacturer) and pressing the CANCEL touchpad. While the cord is unplugged, two-way communication automatically reverts to the station speaker/microphone.

1 **Speaker/Microphone**

The speaker/microphone allows two-way voice communications between a person in the room and the attendant at the associated master station when the bed rail communications system is unplugged. Hands-free operation provides direct interactive communication through the station panel.

2 **Amber Call Assurance LED**

The amber LED lights each time a call is placed from this station and remains lit until the call is answered from the master station or canceled at this patient station. Call priority is indicated by either a steady illumination of the amber LED for normal calls or a rapidly flashing LED for emergency calls. The LED flashes slowly if the station is placed on reminder.

3 **CANCEL Touchpad**
Press this touchpad to cancel any pending call placed from this station or to remove the station from reminder status.

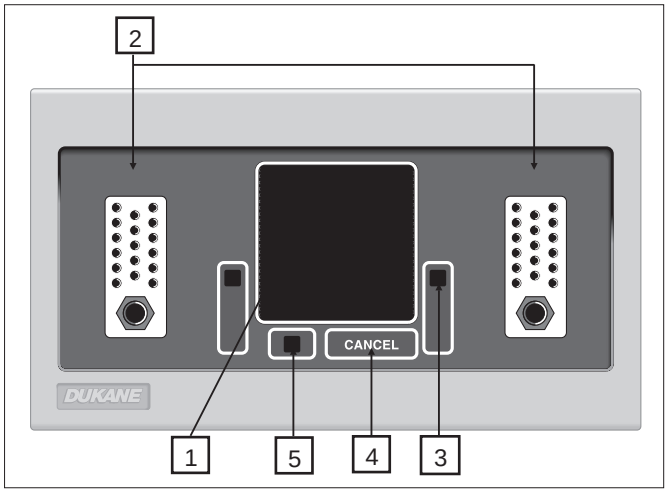
4 **Red Privacy LED**
The red privacy LED lights when this station is in the intercommunication mode or when it is being monitored by a master station.

(Special Purpose Single Patient Station

Model 4A3183)

Dual Patient Station with Pillow Speaker Intercom

Model 4A3187 Enhanced



Two patients can use individual call cords or pillow speakers to place a normal or emergency call to the master station. A call from either patient is indicated as a single station call at the master station and at the duty stations, and is visually indicated at the associated corridor and zone lights. The 4A3187 allows the use of the ProCare 2000 System's reminder and programmed emergency features. A front panel multi-pin receptacle allows this patient station to be used with standard call cords, or with pillow speakers that control TV functions. While the pillow speaker is unplugged, two-way communication automatically reverts to the station speaker/microphone.

1 **Speaker/Microphone**

The speaker/microphone allows two-way voice communication between a person in the room and the attendant at the associated master station when a pillow speaker is not used. Hands-free operation provides direct, interactive communication through the station panel.

2 **Entertainment Option Receptacles**

These multi-pin connectors accommodate all standard Dukane call cords and allow the use of a pillow speaker. The patient can use the pillow speaker to place a call to the associated master station, control TV functions, and select available audio programs. When a pillow speaker is being used by a patient to place a call, communication takes place through the pillow speaker, and the entertainment audio is muted.

Unplugging the call device from the receptacle automatically places an emergency priority call that can only be canceled by reinserting the call device and pressing the CANCEL touchpad.

3 **Amber Call Assurance LED**
The amber LED lights each time a call is placed from this section and remains lit until the call is answered from the master station or canceled at this patient station. Call priority is indicated by either a steady illumination of the amber LED for normal calls, or a rapidly flashing LED for emergency calls. The LED flashes slowly if the station is placed on reminder.

4 **CANCEL Touchpad**
Press to cancel any pending call placed from this station or to remove the station from reminder status.

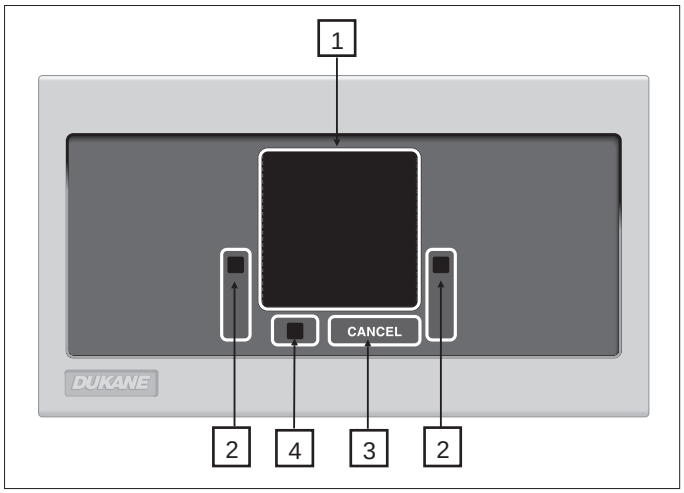
5 **Red Privacy LED**
The red privacy LED lights when this station is in the intercom mode or when it is being monitored by a master station.

(Dual Patient Station with Pillow Speaker Intercom

Model 4A3187 Enhanced)

Special Purpose Dual Patient Station

Model 4A3188



The special purpose dual patient station is used with a bed safety rail communication system. A pillow speaker can be substituted for the bed communication system. The patient can place a call to the master station through the bed rail system. Calls from this station are indicated at the master station, the duty stations, and the corresponding corridor and zone lights. A call is canceled by pressing the CANCEL touchpad at the patient station, or by answering the call at the master station and communicating with the patient through the bed communications panel.

Removal of the bed communications cord sets off an emergency call at the master station. The call is canceled by replacing the bed communications cord, pillow speaker, or dummy plug (supplied by the bed manufacturer) and pressing CANCEL touchpad. When the cord is unplugged, two-way communication reverts to the station's speaker/microphone.

1 **Speaker/Microphone**
The speaker/microphone allows communication between a person in the room and a master station attendant when the bed rail communications system is unplugged. Hands-free operation provides communication through the station panel.

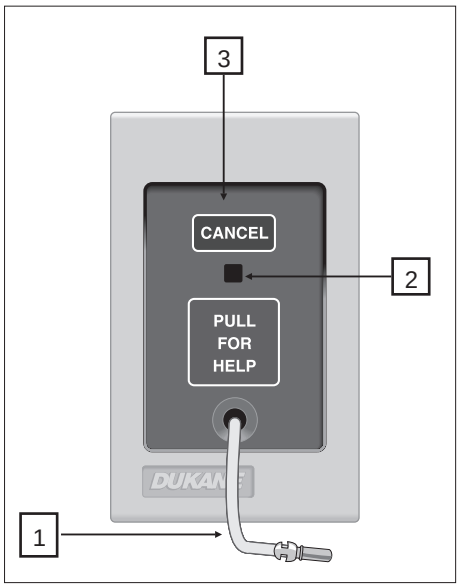
2 **Amber Call Assurance LED**
The amber LED lights when a call is placed from this station. It stays lit until the call is answered from the master station or canceled at the patient station. Call priority is indicated by a steady illumination of this LED for normal calls, rapid flashing for emergency calls, or flashes slowly if set on reminder.

3 **CANCEL Touchpad**
Press to cancel any pending call placed from this station or to remove the station from reminder status.

4 **Red Privacy LED**
This red privacy LED lights when this station is in the intercommunication mode or when it is being monitored by a master station.

Lavatory/ Emergency Station

Model 9A3005



This station is activated by pulling the call cord, which places an emergency call to a master station. The call can only be canceled from the originating station by pressing the CANCEL touchpad, causing the LED indicator to go out.

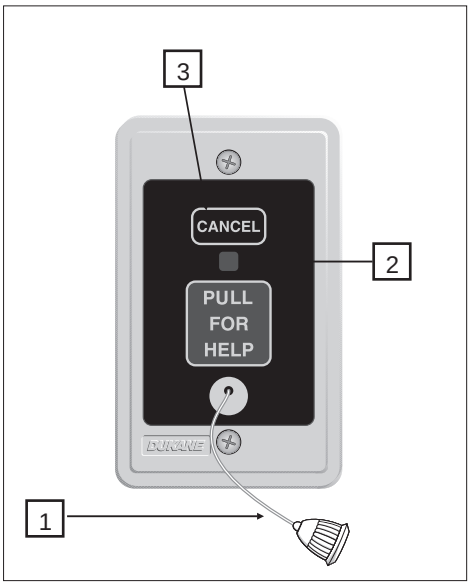
1 **Call Cord**
Pulling the call cord places an emergency call to the master station and causes the red section of the associated corridor and zone lights to flash.

2 **Call Assurance LED**
The call assurance LED flashes any time a call is placed from this station and continues flashing until the call is canceled at the originating station.

3 **CANCEL Touchpad**
Press to cancel any pending call made from this station.

Shower Emergency Station

Model 9A3006



This water-resistant station is designed for use in patient showers. It is activated by pulling the call cord, which places an emergency call to a master station. The call can only be canceled from the originating station by pressing the CANCEL touchpad, causing the LED indicator to go out.

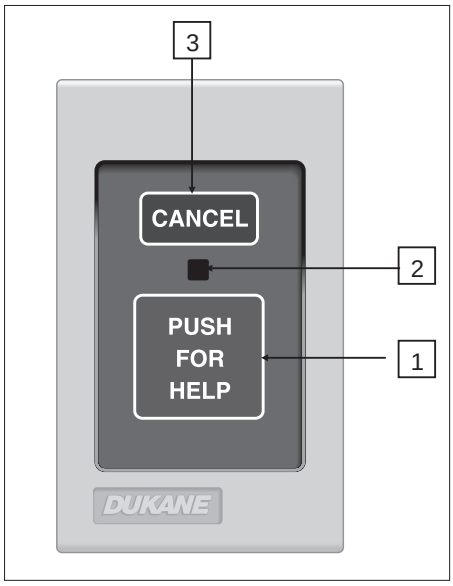
1 **Call Cord**
Pulling the call cord places an emergency call to the master station and causes the red section of the associated corridor and zone lights to flash.

2 **Call Assurance LED**
The call assurance LED flashes any time a call is placed from this station and continues flashing until the call is canceled at the originating station.

3 **CANCEL Touchpad**
Press to cancel any pending call made from this station.

Lavatory/ Emergency Station

Model 9A3010



This station is activated by pressing the large red touchpad, which places an emergency call to the master station. The call can only be canceled from the originating station by pressing the CANCEL touchpad, causing the LED indicator to go out.

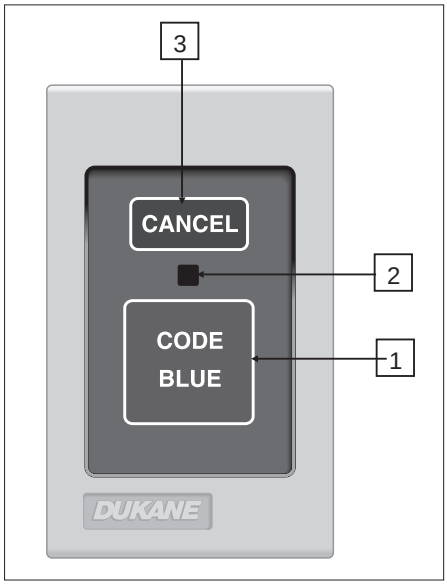
1 **PUSH FOR HELP Touchpad**
Pressing this touchpad places an emergency call to the master station and causes the red section of the associated corridor and zone lights to flash.

2 **Call Assurance LED**
The call assurance LED flashes any time a call is placed from this station and continues flashing until the call is canceled at the originating station.

3 **CANCEL Touchpad**
Pressing this touchpad cancels any pending call made from this station.

Code Blue Station

Model 9A3015



This station is activated by pressing the large blue touchpad, which places an emergency call to the master station. The call can only be canceled from the originating station by pressing the CANCEL touchpad, causing the LED indicator to go out.

Distinct tone and visual annunciation at the master, duty, and follow stations is available only if 437-00112 Option C or 437-00182 Option D firmware is installed and the call point is programmed as code blue at the master station.

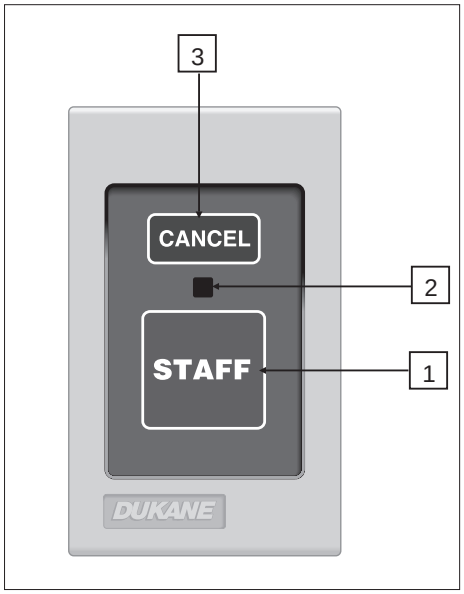
1 **CODE BLUE Touchpad**
Pressing this touchpad places an emergency call to the master station and causes the amber section of the associated corridor and zone lights to flash.

2 **Call Assurance LED**
The call assurance LED flashes any time a call is placed from this station and continues flashing until the call is canceled at this station.

3 **CANCEL Touchpad**
Pressing this touchpad cancels any pending call made from this station.

Staff Emergency Station

Model 9A3020



This station is activated by pressing the large green touchpad, which places an emergency call to the master station. The call can only be canceled from the originating station by pressing the CANCEL touchpad, causing the LED indicator to go out.

Distinct tone and visual annunciation at the master, duty, and follow stations is available only if 437-00112 Option C or 437-00182 Option D firmware is installed and the call point is programmed as staff emergency at the master station.

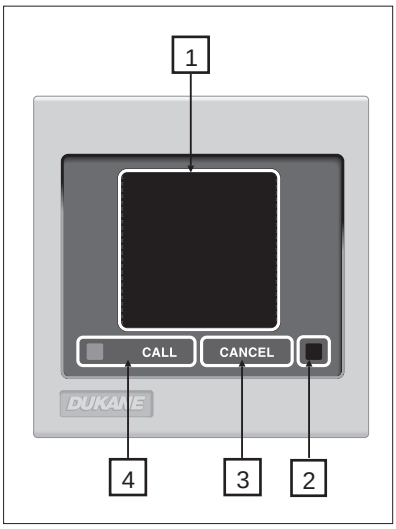
1 **STAFF Touchpad**
Pressing this touchpad places a staff emergency call to the master station and causes the green section of the associated corridor and zone lights to flash.

2 **Call Assurance LED**
The call assurance LED flashes any time a call is placed from this station and continues flashing until the call is canceled at the originating station.

3 **CANCEL Touchpad**
Pressing this touchpad cancels any pending call made from this station.

Staff Station

Model 4A3090



This station provides call-in to the master station, intercommunication between this station and the master station, and monitoring of this station by the master station.

1 **Speaker/Microphone**
This speaker/microphone allows hands-free, two-way voice communications between the staff (or anyone else in the room) and the attendant at the associated master station without the person directing his/her voice toward the station panel or operating any controls.

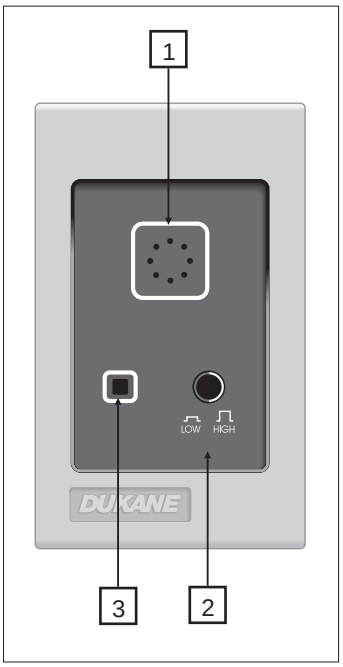
2 **Red Privacy LED**
The red privacy LED lights whenever this station is in the intercommunication mode or when being monitored from its associated master station.

3 **CANCEL Touchpad**
Press this touchpad to cancel any pending call made from this station or to remove the station from reminder or follow status.

4 **Call Touchpad with Call Assurance LED**
Pressing this touchpad places a call to the master station, lights the call assurance LED, and illuminates the associated corridor and zone lights. The station's associated LED on the master station also lights. The call assurance LED remains on until the call is answered at the master station or canceled at this station.

Duty Station

Model 4A3091A



This station transmits audio tones and visual indications of calls placed (normal or emergency) from any station within the system. The duty station allows staff to monitor incoming calls.

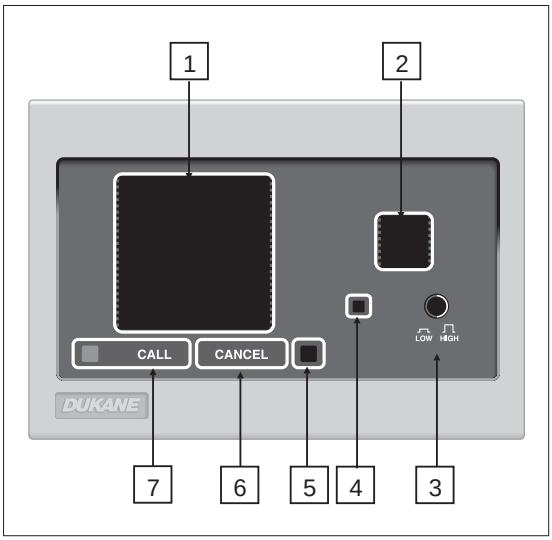
1 **Tone Sounder**
The tone sounder emits a tone to indicate incoming calls in the system.

2 **Tone Level Adjustment**
The LOW/HIGH tone level control allows two levels of tone volume at the station. The tone can never be completely silenced.

3 **LED Annunciation**
This LED visually announces incoming calls in the system. Its flash rate indicates the call's priority.

Staff/Duty Station

Model 4A3092A



This station provides call-in to the master station, intercommunication between this station and the master station, and monitoring of this station by the master station. The staff/duty station transmits audio tones and visual indications for the type of call placed (normal or emergency) by a patient, staff, or emergency station in the system.

1 **Speaker/Microphone**
The speaker/microphone allows hands-free, two-way voice communications between the staff (or anyone else in the room) and the attendant at the associated master station without the person operating controls or directing his/her voice toward the station panel.

2 **Tone Sounder**
The tone sounder emits a tone to announce incoming calls in the system. This tone is disabled during audio communication.

3 **Tone Level Adjustment**
The LOW/HIGH tone level control allows two levels of tone volume at the station. The tone can never be completely silenced.

4 **LED Annunciator**
This LED visually announces incoming calls in the system. Its flash rate indicates the call's priority.

5 **Red Privacy LED**
The red privacy LED lights when this station is in the intercommunication mode or when it is being monitored from its associated master station.

6 **CANCEL Touchpad**
Press to cancel any pending call placed from this station or to remove the station from reminder or follow status.

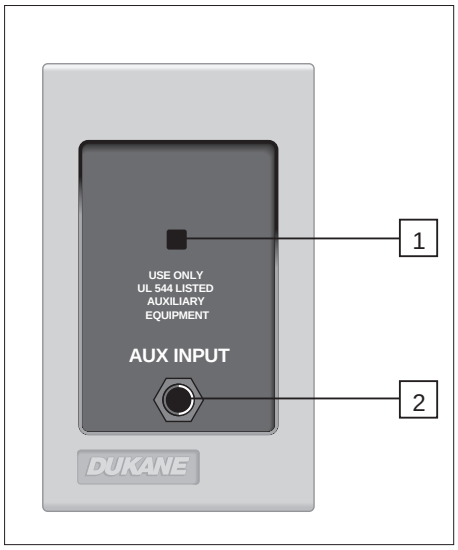
7 **Call Touchpad with Call Assurance LED**
Pressing this touchpad places a call to the master station and lights the call assurance LED, the station's associated corridor and zone lights, and the associated LED indicator on the master station. The call assurance LED remains lit until the call is answered at the master station or canceled at this station.

(Staff/Duty Station

Model 4A3092A)

Auxiliary Station

Model 9A3025



The auxiliary input station is used to connect a monitor device, such as a portable ventilator unit or bed exit unit, to the nurse call system. When the monitor device is in alarm mode, a call is placed to the master station. The call remains in the system until the alarm on the monitor device is manually or automatically reset.

1 **Call Assurance LED**

The call assurance LED lights when the attached monitor device is in alarm mode, to indicate that the alarm has placed a call in the system. The LED does not extinguish until the alarm is reset.

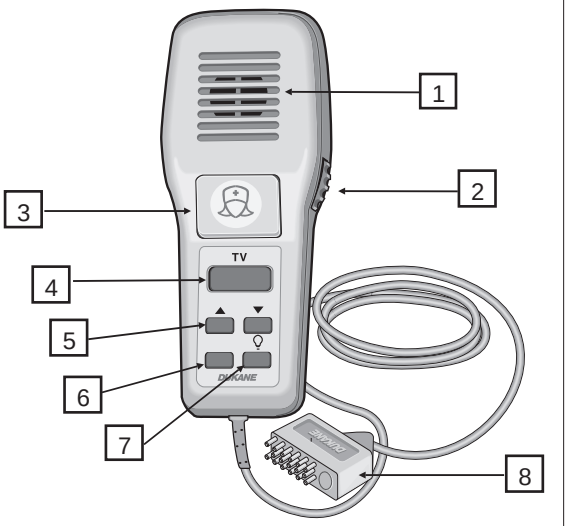
2 **AUX INPUT Jack**

A monitor device can be plugged into the AUX INPUT jack.

Note:

Only those devices that have maintained dry contacts when in alarm mode, that have a standard 1/4-inch (0.64 cm) diameter phone plug, and that are UL 544 Listed should be connected to this station.

Section 4
Call Cord Controls and Operation



Model 7A2011

Pillow Speaker

Models 7A2010 and 7A2011

The 7A2010 and 7A2011 pillow speakers can be used only with a Dukane ProCare 2000 Patient Station equipped with the gray 17-pin entertainment connector. The patient can control entertainment functions through the pillow speaker. The pillow speaker is also used to place a normal or assigned priority calls to the master station.

The 7A2010 and 7A2011 pillow speakers share several features. Both pillow speaker models provide nurse call and basic TV controls except that the LEDs are not operative. In addition, when the call is answered at the master station, the red privacy LED lights on the 7A2010 and 7A2011 models.

Both pillow speaker models are provided with a bedsheet clamp that attaches to the patient's bedsheet or other secure bed item to keep the pillow speaker within comfortable reach of the patient.

An eight-foot, gray flexible cord assembly and a multi-pin plug connect the pillow speaker to the wall station.

continued

(Pillow Speaker Models 7A2010 and 7A2011)

1 **Speaker**
This sensitive speaker provides entertainment audio.
Note:
Communication between this station and the master takes place through the pillow speaker on stations equipped with pillow speaker intercom. On stations not equipped with pillow speaker intercom, communication takes place through the station's speaker/microphone.

2 **Volume Control**
Turn counter-clockwise to increase entertainment volume. Turn clockwise to decrease entertainment volume.

3 **Nurse Call Pushbutton**
Pressing the nurse call pushbutton places a call to the master station and lights the station call assurance LED, the associated corridor and zone lights, and the associated LED indicator on the master station. The station call assurance LED remains on until the call is answered at the master station or canceled at the patient station.

4 **TV Channel Pushbutton**
This pushbutton is used to turn the TV on and to change TV channels.

5 **Optional Control Pushbuttons** (7A2011 only)
These pushbuttons operate optional control such as up light and down light or TV channel up and down. These features require special wiring.

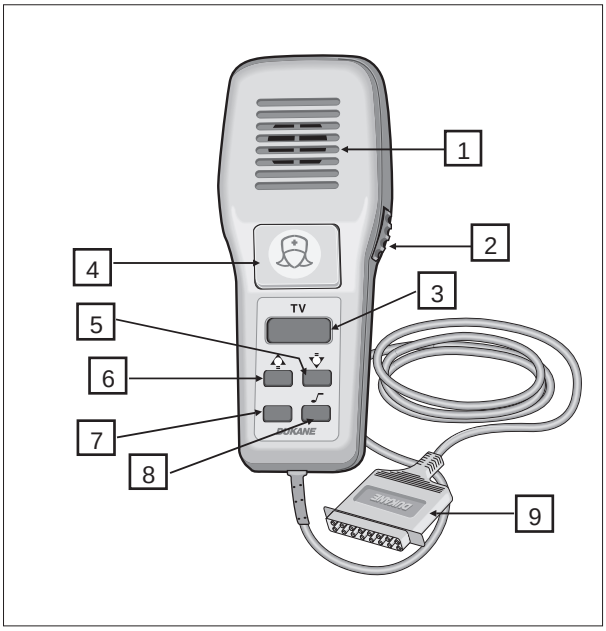
6 **Not used**
This pushbutton is not used.

7 **Ancillary Control** (7A2011 only)
This pushbutton may be designated to control other ancillary equipment such as low voltage lighting. This feature requires special wiring.

8 **Entertainment Option Connector**
This multi-pin connector plugs into the gray entertainment receptacle on patient stations that have the entertainment option.

Pillow Speaker

Model 7A2031



The 7A2031 pillow speaker can be used with any Dukane ProCare 2000 special purpose patient station. This pillow speaker provides nurse call, basic TV, radio, and lighting controls for the patient. The pillow speaker is also used to place normal or assigned priority calls to the master station.

The 7A2031 pillow speaker/patient station plug is a 37-pin “D” connector that connects to a mating socket in the wall near the floor. An eight-foot, gray flexible cord assembly and a multi-pin plug connect the pillow speaker to the wall station. This model is normally used for bed communications, and is Stryker® and Hill-Rom® bed receptacle compatible.

This pillow speaker model is provided with a bedsheet clamp that attaches to the patient’s bedsheet or other secure bed part to keep the pillow speaker handy for the patient.

continued

(Pillow Speaker Model 7A2031)

1 **Speaker**
This sensitive speaker provides entertainment audio.
Note:
Communication between this station and the master takes place through the pillow speaker on stations equipped with pillow speaker intercom. On stations not equipped with pillow speaker intercom, communication takes place through the station's speaker/microphone.

2 **Volume Control**
Turn counter-clockwise to increase entertainment volume. Turn clockwise to decrease entertainment volume.

3 **TV Channel Pushbutton**
This pushbutton is used to turn the TV on and to change TV channels.

4 **Nurse Call Pushbutton**
Pressing the nurse call pushbutton places a call to the master station and lights the station call assurance LED, the associated corridor and zone lights, and the associated LED indicator on the master station. The station call assurance LED remains on until the call is answered at the master station or canceled at the patient station.

5 **Down (Reading) Light Control**
This pushbutton allows patient to set reading light on or off .

6 **Up (Ceiling/Room) Light Control**
This pushbutton allows patient to set overhead room lighting on or off.

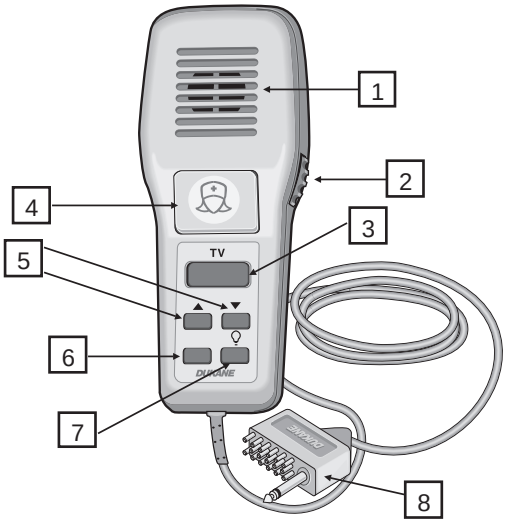
7 **Not used**
This pushbutton is not used.

8 **Radio Control**
This pushbutton is designated to control radio entertainment operation. This feature requires special wiring.

9 **Entertainment Option Connector**
This multi-pin connector plugs into a mating socket in the wall near the floor.

Pillow Speaker

Models 7A2005 and 7A2006



Model 7A2006

The 7A2005 and 7A2006 pillow speakers are normally used with any Dukane ProCare 2000 patient station equipped with the white 13-pin entertainment connector receptacle. (These pillow speakers can also be used with a gray 17-pin receptacle for a mixed system.) Both pillow speaker models provide nurse call and basic TV controls except that the LEDs are not operative.

Both pillow speaker models are provided with a bedsheet clamp that attaches to the patient's bedsheet or other secure bed item to keep the pillow speaker within comfortable reach of the patient.

An eight-foot, gray flexible cord assembly and a multi-pin plug with one extended prong connect the pillow speaker to the wall station.

continued

(Pillow Speaker Models 7A2005 and 7A2006)

1 **Speaker**
This sensitive speaker provides entertainment audio.
Note:
Communication between this station and the master takes place through the pillow speaker on stations equipped with pillow speaker intercom. On stations not equipped with pillow speaker intercom, communication takes place through the station's speaker/microphone.

2 **Volume Control**
Turn counter-clockwise to increase entertainment volume. Turn clockwise to decrease entertainment volume.

3 **TV Channel Pushbutton**
This pushbutton is used to turn the TV on and to change TV channels.

4 **Nurse Call Pushbutton**
Pressing the nurse call pushbutton places a call to the master station and lights the station call assurance LED, the associated corridor and zone lights, and the associated LED indicator on the master station. The station call assurance LED remains on until the call is answered at the master station or canceled at the patient station.

5 **Optional Control Pushbuttons** (7A2006 only)
These pushbuttons operate optional control such as room lighting (up arrow) and reading light (down arrow), or TV channel up and down. These features require special wiring.

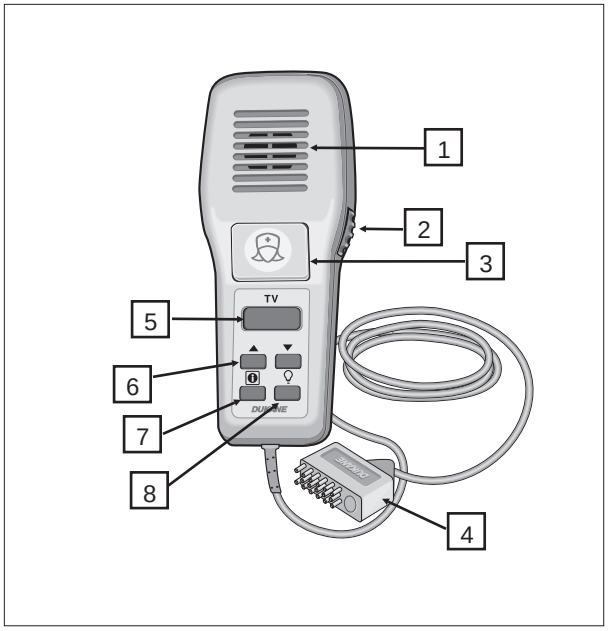
6 **Not used**
This pushbutton is not used.

7 **Ancillary Control** (7A2006 only)
This pushbutton may be designated to control other ancillary equipment such as low voltage lighting. This feature requires special wiring.

8 **Entertainment Option Connector**
This multi-pin connector plugs into the white or gray entertainment receptacle on patient stations that have the entertainment option.

Smart Pillow Speaker

Model 7A/B/C2111



The Model 7A/B/C2111 Smart Pillow Speaker is used only with a Dukane ProCare 2000 patient station (Models 4A3081A, 4A3086A, 4A3181A, 4A3182, 4A3186A, and 4A3187) equipped with a gray 17-pin entertainment connector.

The smart pillow speakers provide nurse call, TV, and lighting controls, plus control of the on/off, channel up/down, closed caption functions, and audio level of designated “Smart” RCA (7A2111), Zenith (7B2111), and Philips (7C2111) televisions through a minimum of three conductors.

Smart pillow speaker models include an internationally recognized “ i ” button for gaining control of the TV closed-caption function, and for turning the function on and off. In addition, a single button, low voltage, light control is provided on all models to optionally operate either one light fixture or two sequentially, as authorized by Dukane.

continued

(Smart Pillow Speaker

Model 7A/B/C2111)

1 **Speaker**
This sensitive speaker provides entertainment audio.
Note:
Communication between this station and the master takes place through the pillow speaker on stations equipped with pillow speaker intercom. On stations not equipped with pillow speaker intercom, communication takes place through the station's speaker/microphone.

2 **Volume Control**
Turn counter-clockwise to increase entertainment volume. Turn clockwise to decrease entertainment volume.

3 **Nurse Call Pushbutton**
Pressing the nurse call pushbutton places a call to the master station and lights the station call assurance LED, the associated corridor and zone lights, and the associated LED indicator on the master station. The station call assurance LED remains on until the call is answered at the master station or canceled at the patient station.

4 **Entertainment Option Connector**
This multi-pin connector plugs into the gray entertainment receptacle on patient stations that have the entertainment option.

5 **TV Pushbutton**
This pushbutton is used to turn the TV on and off.

6 **Up/Down Pushbuttons**
These pushbuttons operate the controls to change the TV channels up and down.

7 **"i" Pushbutton**
The internationally recognized "i" button is used for gaining control of the TV closed-caption function, and for turning the function on and off.

8 **Ancillary Control**
This pushbutton can be designated to control other ancillary equipment such as low voltage lighting. This feature requires special wiring.

Smart Pillow Speaker

Model 7A/B/C/2131

The Model 7A/B/C2131 Smart Pillow Speaker can be used with Dukane ProCare 2000 Special Purpose Patient Stations installed with a 37-pin connector wallplate receptacle connected to an electronically controlled bed manufactured by Stryker or Hill-Rom.

The smart pillow speakers provide nurse call, TV, and lighting controls, plus control of the on/off, channel up/down, closed caption functions, and audio level of designated “Smart” RCA (7A2131), Zenith (7B2131), and Philips (7C2131) televisions through a minimum of three conductors.

Smart pillow speaker models include an internationally recognized “ i ” button for gaining control of the TV closed-caption function, and for turning the function on and off. In addition, a single button, low voltage, light control is provided on all models to optionally operate either one light fixture or two sequentially, as authorized by Dukane.

continued

(Smart Pillow Speaker

Model 7A/B/C2131)

1 **Speaker**
This sensitive speaker provides entertainment audio.
Note:
Communication between this station and the master takes place through the pillow speaker on stations equipped with pillow speaker intercom. On stations not equipped with pillow speaker intercom, communication takes place through the station's speaker/microphone.

2 **Volume Control**
Turn counter-clockwise to increase entertainment volume. Turn clockwise to decrease entertainment volume.

3 **Nurse Call Pushbutton**
Pressing the nurse call pushbutton places a call to the master station and lights the station call assurance LED, the associated corridor and zone lights, and the associated LED indicator on the master station. The station call assurance LED remains on until the call is answered at the master station or canceled at the patient station.

4 **Entertainment Option Connector**
This multi-pin connector plugs into a mating socket in the wall near the floor.

5 **TV Pushbutton**
This pushbutton is used to turn the TV on and off.

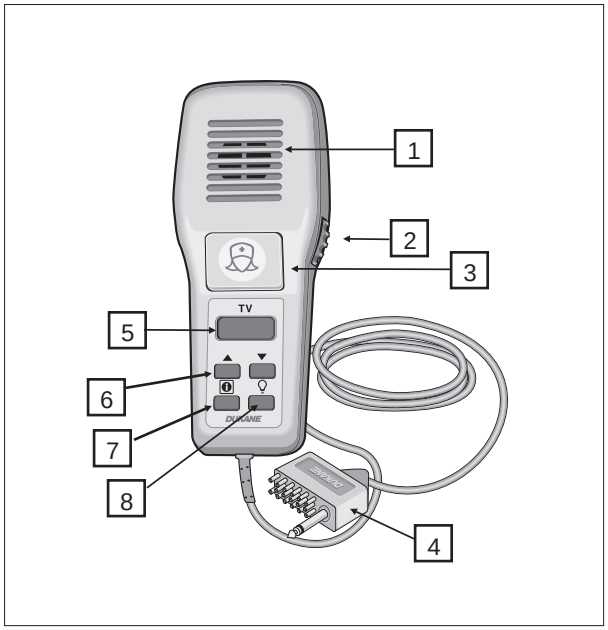
6 **Up/Down Pushbuttons**
These pushbuttons operate the controls to change the TV channels up and down.

7 **"i" Pushbutton**
The internationally recognized "i" button is used for gaining control of the TV closed-caption function, and for turning the function on and off.

8 **Ancillary Control**
This pushbutton can be designated to control other ancillary equipment such as low voltage lighting. This feature requires special wiring.

Smart Pillow Speaker

Model 7A/B/C2106



The Model 7A/B/C2106 Smart Pillow Speaker is used with a Dukane ProCare 2000 patient station (Models 4A3081A, 4A3086A, 4A3181A, 4A3182, 4A3186A, and 4A3187) equipped only with a white13-pin entertainment connector.

The smart pillow speakers provide nurse call, TV, and lighting controls, plus control of the on/off, channel up/down, closed caption functions, and audio level of designated “Smart” RCA (7A2106), Zenith (7B2106), and Philips (7C2106) televisions through a minimum of three conductors.

Smart pillow speaker models include an internationally recognized “ i ” button for gaining control of the TV closed-caption function, and for turning the function on and off. In addition, a single button, low voltage, light control is provided on all models to optionally operate either one light fixture or two sequentially, as authorized by Dukane.

continued

(Smart Pillow Speaker

Model 7A/B/C2106)

1 **Speaker**
This sensitive speaker provides entertainment audio.
Note:
Communication between this station and the master takes place through the pillow speaker on stations equipped with pillow speaker intercom. On stations not equipped with pillow speaker intercom, communication takes place through the station's speaker/microphone.

2 **Volume Control**
Turn counter-clockwise to increase entertainment volume. Turn clockwise to decrease entertainment volume.

3 **Nurse Call Pushbutton**
Pressing the nurse call pushbutton places a call to the master station and lights the station call assurance LED, the associated corridor and zone lights, and the associated LED indicator on the master station. The station call assurance LED remains on until the call is answered at the master station or canceled at the patient station.

When the pillow speaker is used with patient station Models 4A3182 and 4A3187 only, a green call assurance LED lights in a lower left corner of the Nurse Call button when a patient places a call. Then a red LED lights in the lower left corner of the same button when communication is established between the master station and the patient station.

4 **Entertainment Option Connector**
This multi-pin connector plugs into the white entertainment receptacle on patient stations that have the entertainment option.

5 **TV Pushbutton**
This pushbutton is used to turn the TV on and off.

6 **Up/Down Pushbuttons**
These pushbuttons operate the controls to change the TV channels up and down.

7 **"i" Pushbutton**
The internationally recognized "i" button is used for gaining control of the TV closed-caption function, and for turning the function on and off.

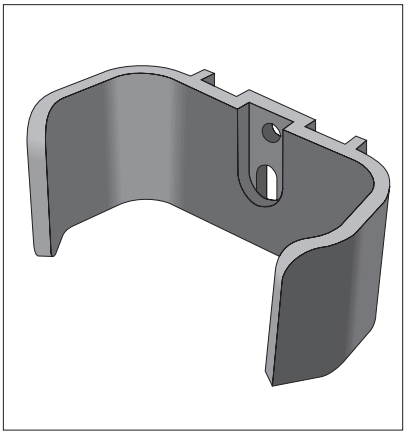
8 **Ancillary Control**
This pushbutton can be designated to control other ancillary equipment such as low voltage lighting. This feature requires special wiring.

Pillow Speaker Hanger

Model 438-707 (optional)

This hanger, available as an optional accessory, is secured on the wall near the patient station and cradles the pillow speaker when it is not in use.

Important Note: To help prevent damage, always place an unused pillow speaker in its hanger.



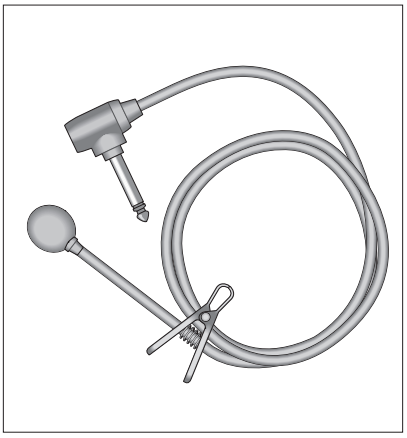
Single Air Cord Assembly

Models 200-446 and 200-447

These assemblies provide nurse call capabilities to a patient with one patient station. Exclusively designed for patients undergoing oxygen therapy.

Model 200-446 is 6 feet (1.8 m) long.

Model 200-447 is 10 feet (3.0 m) long.



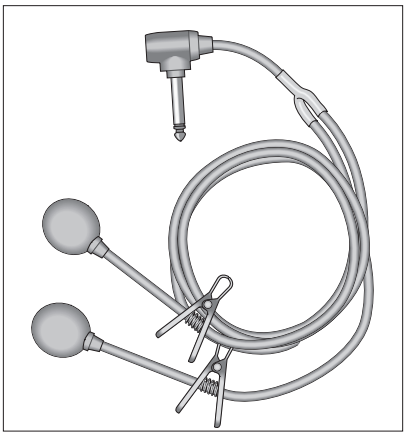
Dual Air Cord Assembly

Models 200-448 and 200-449

These assemblies provide nurse call capabilities to two patients with one patient station. Exclusively designed for patients undergoing oxygen therapy.

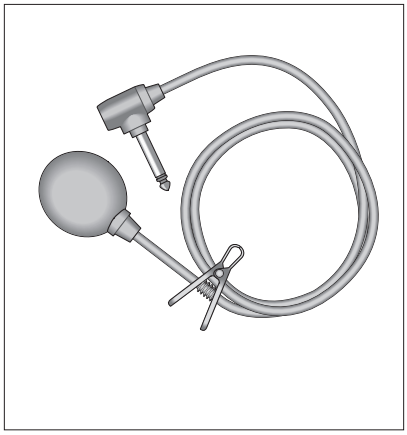
Model 200-448 is 6 feet (1.8 m) long.

Model 200-449 is 10 feet (3.0 m) long.



Air Cord Assembly

Models 200-1071 and 200-1073



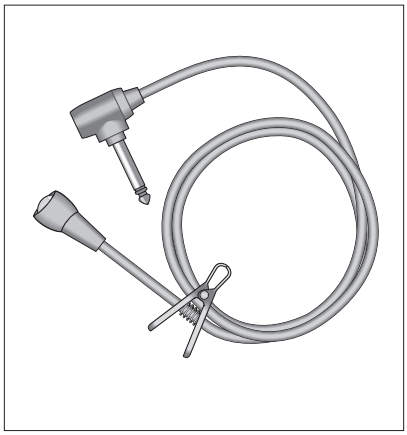
These assemblies provide nurse call capabilities to a patient with one patient station. Exclusively designed for patients undergoing oxygen therapy. Both assemblies have a large squeeze pad actuator for patients with impaired dexterity.

Model 200-1071 is 6 feet (1.8 m) long.

Model 200-1073 is 10 feet (3.0 m) long.

Air Cord Assembly

Model 200-1072

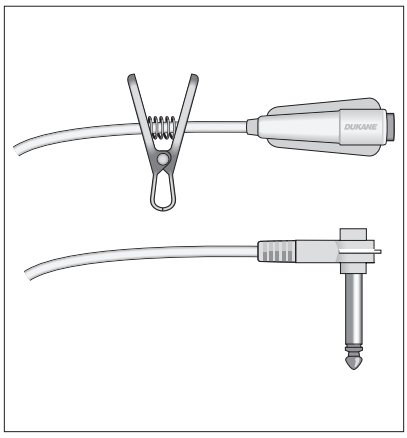


This assembly provides nurse call capabilities to a patient with one patient station. Exclusively designed for patients undergoing oxygen therapy. This assembly has a large bulb actuator for patients with impaired dexterity.

Model 200-1072 is 8 feet (2.4 m) long.

Call Cord Assembly

Models 200-1171 and 200-1172



These assemblies provide nurse call capabilities to a patient with one patient station.

Model 200-1171 is 6 feet (1.8 m) long.

Model 200-1172 is 12 feet (3.7 m) long.

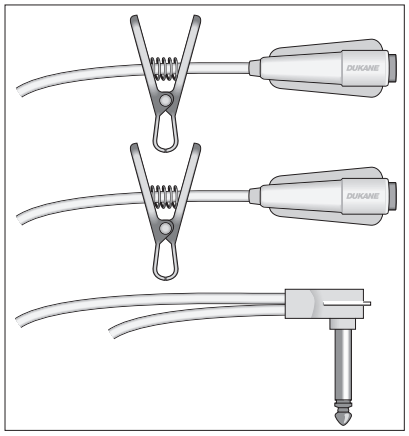
Dual Call Cord Assembly

Models 200-1173 and 200-1174

These assemblies provide nurse call capabilities to two patients with one patient station.

Model 200-1173 is 6 feet (1.8 m) long.

Model 200-1174 is 12 feet (3.7 m) long.



Switch Plug

Model 570-130

This switch plug inserts into the front panel receptacle on a patient station for pushbutton nurse call capabilities.

Note:
This device cannot be used on patient stations with pillow speaker receptacles.

Dummy Plug

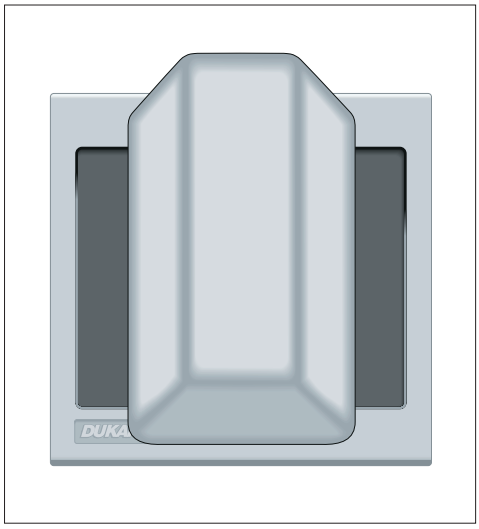
Model 570-131

This dummy plug inserts into all unused front panel receptacles on patient stations, to prevent the placement of calls from vacant receptacles.

Note:
This device cannot be used on patient stations with pillow speaker receptacles.

Notes

Section 5
Lamp Operation



Corridor Lamp

Models
18A521 (1 bulb),
18A522 (2 bulb),
18A523 (3 bulb),
and
18A524 (4 bulb)

Corridor lamps are usually located on the wall or ceiling outside a patient's room. They light when a call is placed from that room to the master station, and go out when that call is answered. The lamps are segmented to provide color and flash rates that indicate the priority of the call placed (normal or emergency).

Zone Lamp

Models
18A522 (2 bulb),
18A523 (3 bulb),
and
18A524 (4 bulb)

Zone lamps are usually located at corridor intersections and represent single or multiple remote station zones. When a call is made from a station, its designated zone lamp lights. The zone lamp may light steadily, flash, or appear in color to indicate the priority of the call placed. The light goes out when the call is answered.

Notes

DUKANE CORPORATION

COMMUNICATIONS SYSTEMS DIVISION - 2900 Dukane Drive, St. Charles, Illinois 60174

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