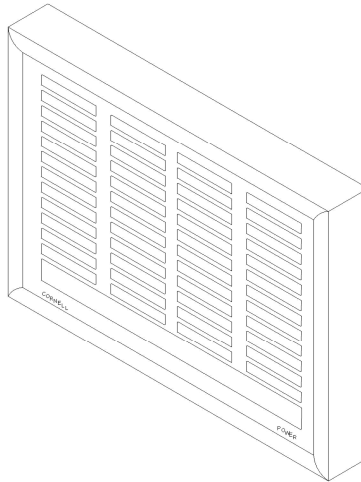


Installation Guide



CORNELL

800-558-8957 — www.cornell.com



Series A-4400 Annunciators

For use with the following:

- *Cornell 4000-Series Nurse Call – Single Status*
- *Cornell 4000-Series Nurse Call – Multi-Status*
- *Cornell 2000-Series Clinic Status indication*

CAUTION

**This system operates at 24 VDC
Insure that the Power Supply
Is set to this voltage**

CORNELL PART NUMBER = D-4400-I (Rev. 2)

A. OVERVIEW:

A1. GENERAL:

The A-4400 Series Annunciators are tabular, Tone/Visual-type indicator units.

Audible indication is provided via an internal sounder, in conjunction with an appropriate plug-in sounder control board.

Visual indication is provided via a tabular array of LEDs, which may be factory configured in a variety of arrangements and/or colors.

Electrically, the A-4400 Series Annunciators utilize 24 Volt DC, Common Positive circuitry.

Each A-4400 Series Annunciator may be configured to work in one of three ways:

- As a Single-Status Nurse Call Annunciator
- As a Multi-Status Nurse Call Annunciator
- As an LED-type Clinic-Status Annunciator

The A-4400 Series was intended to functionally replace the following Cornell products:

- 4000-Series Nurse Call Annunciators (Both Single and Multi-Status versions)
- 2000-Series Clinic Status Annunciators (replaces single and multi-color LED models)

A2. DESIGN GOALS:

The design goals for the A-4400 Series included, but were not limited to the following:

- Compatibility with existing 4000-Series Nurse Call Systems – the A-4400 Series Annunciators can be added to existing systems and combined with existing “old-style” annunciator equipment (both Single-Status and Multi-Status versions).
- Compatibility with existing 2000 Clinic Status Systems – Where indication, without control is required the A-4400 Series Annunciators can be added to existing systems and combined with existing “old-style” LED-type annunciator equipment. (However, please note that A-4400 Annunciators do not contain control switches / pushbuttons.)
- Improved aesthetics – Cornell wanted the A-4400 Series to have a clean, modern look, with sufficient room to label each unit in a neat, professional manner. The mounting system leaves no visible fasteners
- Flexible – The A-4400 product line can be factory-configured in a variety of ways, and has several field-configurable options. Creating a versatile product that does many things well allows Cornell to control our internal costs – a “win-win” for both you and us.
- Ease of installation – like its predecessors, the A-4400 product was designed to be simple to install and to configure in the field. Personnel who are familiar with our previous-generation Cornell annunciators should have little to no trouble adapting to the A-4400 Series.
- Reliability – like its predecessors, the A-4400 Series incorporates simple yet rugged circuitry.
- Competitive pricing – while meeting all of the other goals above, we wanted to keep it affordable.
- Secure Mounting – The mounting system utilized requires a special “key” for removal from the mounting surface, plus the fasteners are hidden. This results in a secure, tamper-resistant installation.
- User-customizable labeling – the A-4400 Series utilizes laser or inkjet-printable slipsheets, which can be replaced from the front of the unit without removing it from the wall. The slipsheets are also designed on a standard, readily-available 8.5 X 11-inch format, and can be printed from most standard office PC equipment and printers. This allows simple editing/customization by the installer and the end-user.

B. OPERATION:

B1. SINGLE-STATUS NURSE CALL OPERATION

When configured for Single-Status Operation – The A-4400 Series Annunciator provides IDENTICAL Audible and Visual indication for ALL associated field points, as follows:

When an Alarm is actuated at an associated Remote Station or Monitor Point:

- The Alarm is Visually indicated by a corresponding LED, which will illuminate in a Steady manner. Each such LED shall remain lit until the associated station or point is reset / cleared.
- The Alarm is Audibly indicated by via a pulsing tone (beep, pause, beep, pause ...)
The pulsing tone shall continue until ALL LEDs at the Annunciator are cleared.

B2. MULTI-STATUS NURSE CALL OPERATION

When configured for Multi-Status Operation – A Cornell 4000-Series Controller is also required (Cornell Model NC-101, NC-102A, or NC-102D).

(Refer to Manual / Documentation for associated Controller, and to field wiring drawings for Cornell 4000-Series Dual and Triple-Status Nurse Call Systems for more information.)

When the proper combination of equipment is provided, the A-4400 Series Annunciator provides Audible and Visual signaling, which differentiates between up to three different status conditions as follows:

MULTI-STATUS VISUAL INDICATION:

When configured for Multi-Status Operation, the LED flash rate (Steady, Slow Flash, or Fast Flash) operates independently for each LED, based upon the priority of the associated Remote Station or Monitor Point.

- Steady LED (“S”) = Low Priority (Example: Bed Station Call)
- 1 Flash per second (“F”) = Mid Priority (Example: Bathroom Station Call)
- 2 Flashes per sec. (“P”) = High Priority (Example: Code Blue Station)

Where multiple Remote Stations are installed within the same room, the corresponding LED will indicate the highest priority call that exists within such rooms (provided that the stations are wired together properly).

Where multiple stations or points are being indicated simultaneously; different flash rates may be seen concurrently for different LEDs: some steady, some flashing slowly, some flashing rapidly. It operates in this manner because the human eye can distinguish between multiple simultaneous conditions, and the rapidly flashing LEDs will stand-out as being more “urgent”.

MULTI-STATUS AUDIBLE INDICATION:

When configured for Multi-Status Operation, the Sounder Pulse rate is controlled by the “HI” Output of the Controller.

- 1 Beep every 6 seconds= Low Priority (Example: Routine or Bed Station Call)
- 1 Beep per second = Mid Priority (Example: Bathroom Station Call)
- 2 Beeps per second = High Priority (Example: Code Blue Station)

When multiple points are being indicated simultaneously; the Controller only trigger the Pulse Rate for the Highest Priority Condition that currently exists

As higher-priority conditions are indicated, the Controller will cause audible indication to escalate accordingly.

Whenever all stations / points of a particular priority are reset or cleared, the controller will cause audible indication to de-escalate or silence accordingly.

It operates in this manner because the human ear can only effectively recognize one sound at a time, and more rapid pulsing will stand-out as sounding more “urgent”.

A-4400 SERIES ANNUNCIATOR TECHNICAL MANUAL

B3. CLINIC STATUS OPERATION

Cornell A-4400 Series Annunciators may be used for Display-Only or for Tone / Visual Indication, when used within a 2000-Series Clinic Status System.

It is important to note that since the A-4400 Series does not incorporate switches, it cannot be used for systems where lamps or other indicator need to be turned on/off from the annunciator - (In such cases, utilize the A-2100 Series).

It is also important to note that stations and components within a Clinic Status System may be arranged in very many different combinations, in order to meet the unique needs of each facility.

Because of this, there really is no “standard” operation scheme for Clinic Status - the contractor needs to carefully coordinate AND DOCUMENT the desired operation of the system with the end-user. Such documentation needs to be provided to the installer, and to Cornell, for the following purposes:

- For coordination of equipment selection and configuration
- For coordination of required wiring
- For proper labeling and programming of the equipment

(Refer to 2000-Series Design Guide – which may be obtained from www.Cornell.com .) Cornell also recommends reviewing the instructions for printing slip-sheets, as found elsewhere within this manual, prior to design discussions with the system end-user. Such background information may prove useful in discussing / designing the system.

The following information and features are applicable to many Clinic Status installations, and may be used as a general “guide”. However, all options that apply to each project may not have been included, and of the options listed here, many may not actually be utilized:

CLINIC STATUS OPERATION - LED COLORS:

Within most Clinic Status Systems, different color LEDs will be utilized. Each color is used to indicate a particular condition for the Examination Room etc., to which it corresponds. In most cases, if color-coded lamps are utilized outside each Exam Room, the LED colors selected and/or printed color-bands will correspond to such lamps.

In order to utilize such color schemes, the scheme needs to be carefully coordinated with the owner, and the A-4400 Annunciator needs to be ordered in the corresponding configuration. Custom configuration may be required – in such cases, contact your Cornell Sales Representative for assistance and/or a quote.

Example B3-1 – Dental Office:

- White = Patient waiting in room
- Yellow = X-ray needed
- Green = Room ready to be cleaned / re-set for next patient
- Blue = Dentist in Room
- Red = Hygenist in Room

Example B3-2 – Multi-Doctor Family Practice Clinic:

- White = Room Ready Status (also see Example B3-3 Flash Rates)
- Yellow = Nurse / Aide Status (also see Example B3-3 Flash Rates)
- Amber = Parent needed – bring them to the room
- Green = Doctor “A” Status (also see Example B3-3 Flash Rates)
- Blue = Doctor “B” Status (also see Example B3-3 Flash Rates)
- Red = Emergency in Room

CLINIC STATUS OPERATION – FLASH RATES:

Lamp & LED Flash Rates are sometimes used within Clinic Status Systems. Cornell utilizes Programmable Logic Controllers (IOC-Series PLCs), and sometimes P5000F Flasher Modules to provide such features.

As with Lamp Color Schemes, Flash Rates / Patterns produced at the A-4400 Annunciator LEDs will usually match the Flash Rates / Patterns utilized for any Corridor Lamps used outside of Examination Rooms, etc.

In order to utilize such Flash Rate Schemes, the scheme needs to be carefully coordinated with the owner, and the appropriate flasher and/or PLC equipment needs to be configured and ordered. In most cases where

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Flash Rates / Patterns will be used, Cornell suggests that you should contact your Cornell Sales Representative for assistance and/or a quote.

Example B3-3 – Multi-Doctor Family Practice Clinic (Example B3-2 Expanded):

- White = Room Ready Status
 - Off = Room Prepared for next patient
 - On = Room Dirty – needs to be cleaned
 - Flashing = Housekeeping in room
- Yellow = Nurse / Aide Status (also see Example B3-3 Flash Rates)
 - On = Nurse in Room
 - Slow Flash = Nurse Needed
 - Fast Flash = Nurse Needed (Urgent)
- Amber = Parent needed – bring them to the room (Simple On/Off)
- Green = Doctor “A” Status (Sequencing Option utilized)
 - On = Patient Waiting – (System remembers order, in which Patients were “Loaded” into the Exam Rooms)
 - Flash = Doctor Present (When Doctor leaves, presses Green button – this turns Lamp & LED Off - “Next” Green Lamp & LED flashes, indicating where this Doctor should go next.)
- Blue = Doctor “B” Status (Same as Green, but sequences separately)
- Red = Emergency in Room (Always flashes whenever actuated)

CLINIC STATUS OPERATION – SOUNDER OPERATION:

Sounder schemes utilized within Clinic Status Systems vary widely.

In some cases, where simple Sounder Operation is utilized – a simple, single-status tone scheme may work – even if some indications will be silent.

Example B3-4 (Simple System – no flashing or IOC Controllers):

Clinic with ten Exam Rooms

Four Status Conditions per Room (Green, Yellow, Red and Blue)
Sounder Operation only wanted for Red and Blue

In this particular case, the A-4400 Annunciator would be arranged with:

Each Exam Room = 1 horizontal Row of LEDs (There will be 2 “spare” rows)

Column A LEDs = GRN	-	Tone “A” Enable Jumper = Set to “OFF”
Column B LEDs = YEL	-	Tone “B” Enable Jumper = Set to “OFF”
Column C LEDs = RED	-	Tone “C” Enable Jumper = Set to “ENABLE”
Column D LEDs = BLU	-	Tone “D” Enable Jumper = Set to “ENABLE”

The Annunciator would be configured for Single-Status operation

In some cases, when a more complex Sounder Operation Scheme is required, the Sounder may be controlled via one or more IOC-Series PLC Outputs, wired to Sounder Input #3 on the Annunciator.

Examples of such Sounder Operation Schemes include, but are not limited to the following:

- “One-Shot” Operation - produces a single beep any time a switch is pressed
- Pulsing Tone Patterns - Different pulsing patterns for different status conditions

D. PRINTING SLIPSHEETS FOR A-4400 ANNUNCIATORS:

Printing Slipsheets for the A-4400 Series Annunciators is a relatively easy process.

IMPORTANT! - Although the process required to create a Slipsheet is relatively simple, it may require equipment may not be readily available at the job site.

Because of this, the installing contractor may want / need to perform this task at their office.

GETTING IT RIGHT:

In order to ensure a neat, professionally-created appearance, Cornell suggests using a procedure that is similar to the following:

- A. *Insert one of the blank velum sheets ON TOP of the plastic overlay (perhaps with a blank version of the appropriate template printed on it)*
- B. *Manually write-in the Room Numbers or other Legends*
- C. *Ensure that everything as noted is correct*
- D. *Use the hand-labeled slipsheet as a guide in creating the final, machine-printed version (You may want to have the Owner / End-User "sign-off" on an approved, full-color copy of the Slipsheet before inserting a duplicate of it into each A-4400 Annunciator)*

D1. (2) WAYS TO CREATE AND PRINT SLIPSHEETS FOR A-4400 ANNUNCIATORS:

Cornell has provided (2) relatively easy methods that may be used to create A-4400 Annunciator Slipsheets:

D1-1. Via Cornell's "Easy Label" Template Editor Software:

The "Easy Label" Software is included on the A-4400 Annunciator Installation CD, which is included with each A-4400 Annunciator Shipment.

Cornell has developed a relatively simple-to-use Software Package, which you may load onto nearly any Microsoft-compatible Personal Computer. (The software does not work with Apple Operating Systems.)

The "Easy Label" Software is configured to Auto-Install from the CD, and includes a variety of Help Files in order to assist you in creating and editing Custom Annunciator Slipsheets.

D1-2. Via Scaled Templates that have been created for use with Autodesk AutoCAD Software:

These Template Files are located within an "AutoCAD Files" Folder, at the root level of the Installation CD included with current A-4400 Annunciators.

If you do not have access to a copy of this CD, you may request copies of the files from Cornell Technical Support.

Use of these files assumes that you have a basic working knowledge of AutoCAD Software.

These Template Files include alignment marks and notes that will assist you in plotting the edited template files at the proper scale. (By default, these notes WILL NOT appear on the finished plot)

Utilize the "layers" utilities to easily change a variety of features for the AutoCAD Templates.

D2. REQUIRED EQUIPMENT AND SUPPLIES:

When preparing to print the "finalized" slipsheet for each annunciator, the installing contractor should be sure to have the following materials on-hand:

- **LASER OR INK-JET PRINTABLE VELUM STOCK:**

Velum is a special, translucent type of paper, which is less prone to discoloration and fading.

 - For Standard, Office-Type Printers – you will want:

Standard US Letter size – (8.5 X 11 inches)
Ink-Jet or Laser-Jet Type – (Suitable for the Printer that you will actually be using)
 - For Wide-Format Plotters (if you will be using AutoCAD) - you will want:

Roll-Feed or Sheet-Feed Stock – (Suitable for the Printer that you will actually be using)
Ink-Jet or Laser-Jet Type – (Suitable for the Printer that you will actually be using)

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- Several blank sheets are included with each A-4400 Series Annunciator
 - Additional sheets are available from Cornell as part of the A-4461 Legend Kit
 - Packages of Velum are available from some office-supply firms – make sure that what you purchase is compatible with the printer that you plan to use
- PC EQUIPPED WITH SUITABLE SOFTWARE:
You will need a suitable PC

The Cornell “Easy Label” Software will run on most common Laptop or Desktop Microsoft-Windows-Compatible Personal Computers)

If you are planning to use AutoCAD – you probably already have it installed on a suitable office PC.
- PRINTER (Laserjet or Ink-Jet type) – once each applicable template file is edited for your particular installation, you will need to print it.
 - For Black & White or grey-scale print-outs, a Laser or Ink-Jet printer will usually suffice
 - If the Slipsheet will need to be printed in color, then either a Color Laser or Color Inkjet printer is recommended

D3. INSERTING / REMOVING THE SLIPSHEET:

The Printed Velum Slipsheet (refer to Fig. A1 – Item “F”) may be inserted, removed, or replaced from the front of the annunciator, without removing the annunciator from the wall.

Page 24 of this Manual illustrates how to insert and remote A-4400 Slipsheets.

The Slipsheet is held in place by a clear, polycarbonate Cover Sheet.

Both sheets fit into slots between the metal sub-plate and the front edges of the frame, , which acts as a “backer” for the Slipsheet / Cover Sheet.

NOTE: When inserting or re-installing a Slipsheet, be sure to keep it “paired-up” with the Clear Cover Sheet. This minimizes chances of marring the Slipsheet, and should result in a clean, flat installation.

Refer to Drawing “Slipsheet Insertion and Removal”, located near the end of this manual.

E. SERVICE / TROUBLESHOOTING:

Most of the Service and Troubleshooting techniques that work with standard A-4000 Series Annunciators will also work with the A-4400 Series.

The following list does not include every possibility, but it should cover most of the more frequent problems, and methods that can be used to test or correct the problem:

• **E1. DEAD ANNUNCIATOR:**

If your annunciator is completely inoperable, the "Power" LED (Fig. A1-H) should not be illuminated. If this is the case, check the following:

- CHECK POWER SOURCE – Check both the circuit-breaker feeding the power supply and the Output of the Power Supply. The Power Supply should be providing an output voltage of 24-Volts D.C. (Also check any fuses in the power supply.)
- CHECK POWER CONNECTIONS - between Power Supply & Annunciator

If you actuate the Lamp Test feature (via the magnetic test switch – Fig. A1-I, or via the rear-mounted "Lamp Test" Switch – Fig. A2-R) and ALL of the LEDs illuminate; go to "INOPERABLE LEDs".

• **E2. DEAD SOUNDER (BUT SOME / ALL LEDs ARE WORKING):**

- MEASURE POWER SUPPLY OUTPUT - Check it with a Voltmeter - The most likely culprit in this case is the Power Supply Voltage. Newer Cornell Power Supplies are convertible between 12 and 24 Volts DC. A-4400 Series Annunciators (and ALL Cornell 2000-Series Clinic Status Systems and 4000-Series Nurse Call Systems) are designed to operate in the range of 24-28 Volts DC.
- TONE CARD - Make sure that you have a Tone Card (Fig. A2-T), and that it is properly seated - If the tone card is properly inserted, the Green "Power" LED on it should illuminate (Fig. A2-W)
- CHECK VOLUME SETTING – Check the Sounder Volume Control (Fig. A2-U) – if it is turned-down all the way, it may be inaudible.
- TEST TONE CARD – If operation of the Tone Card is in question, it can be triggered in Single Status Mode by temporarily touching a jumper wire between:
 - Negative Power Connection (Fig. A2-O "NEG") -and-
 - TG Sounder Input (Fig. A2-S, terminal #1)

When this is done, the sounder should operate in Single Status Mode – a series of repeating pulses should be produced by the sounder.

SINGLE-STATUS OPERATION - If the Annunciator is being used in Single-Status Mode, and if it passes the test above, double-check:

The jumper between Sounder Input #1 (Fig. A2-O, terminal #1) and the "Tone" Output (Fig. A2-O, terminal #4).

Make sure that all of the Tone Enable Jumpers (Fig. A2-Q) are in the "ENABLE" position.

MULTI-STATUS OPERATION - If the Annunciator is being used in Multi-Status Mode, and if it passes the test above, certain components may still be damaged on the Tone Card – make the following additional observations:

If the Nurse Call System contains other annunciators or Duty Stations and they are working properly, then the most likely culprit is a damaged Tone Card.

If all sounders on the system are not functioning, the most likely culprit is the "HI" Output of the Controller (check these connections before assuming that this is the case)

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If the project only has (1) Annunciator and (1) Controller – you may perform the following test: (This test uses the Green “Power” LEDs to simulate the Annunciator Sounder Circuit)

- Temporarily disconnect the Positive 24-Volt wire from the Annunciator (Figure A2 – “O”)
- Temporarily disconnect the “HI” wire at the Annunciator from its usual connection (Figure A2-“S”, terminal 3), and temporarily re-connect it to the Positive 24-Volts Terminal.
- Trigger a call, and observe the Green “Power” LEDs on the Annunciator:
 - LEDs Blink when sounder should normally be “beeping” = Controller is working; replace Sounder Board
 - LEDs Not Blinking or staying on steady = HI Output of Controller is damaged; replace or repair Controller

CLINIC STATUS OPERATION WITH PLC OR RELAY BOARD - If the Annunciator is being used in a Clinic Status System, and if the Tone Card passes the test above, certain components may still be damaged on the Tone Card – make the following additional observations:

Remove the first test jumper, (NEG to TG)

Touch a new jumper between:

- Negative Power Connection (Fig. A2-O “NEG”) -and-
- PLC Sounder Input (Fig. A2-S, terminal #2)

If this works, then the externally-triggered PLC Sounder Input and Tone Card are functioning properly. In this case, your problem likely lies in the wiring between the PLC or Relay Board and the Annunciator, or within the PLC or Relay Board itself.

- **INOPERABLE LEDs (Sounder is working):**

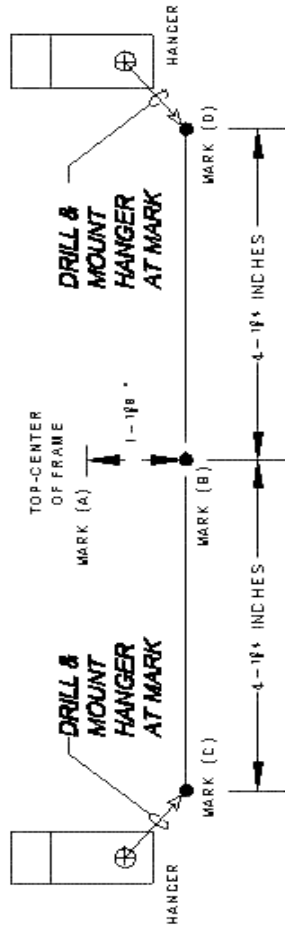
- ACTUATE “LAMP TEST” – try this first (See Fig. A1-I & Fig. A2-R). If the particular LED(s) still do not illuminate, Cornell recommends sending the annunciator in for service.
- CHECK CONNECTIONS TO ASSOCIATED STATION – If Lamp Test works, but the LED does not respond to the station, the problem most likely lies in the wiring to the associated station, or within the station itself.

IF YOU ARE UNABLE TO REMEDY THE PROBLEM BASED ON THE INFORMATION PROVIDED ABOVE, PLEASE CONTACT CORNELL TECHNICAL SUPPORT AT:

- Phone: (800) 558 – 8957
- Fax: (800) 541 – 9946
- E-mail: sales@cornell.com

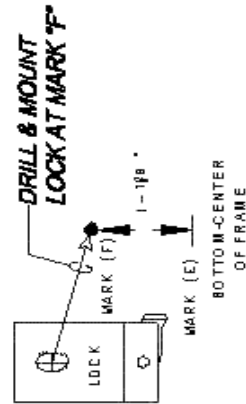
STEP 1 - MARK & INSTALL THE HANGER (TOP) BRACKETS:

- 1A. TEMPORARILY HOLD THE ANNUNCIATOR AT THE DESIRED LOCATION. MAKE A SMALL PENCIL MARK (A) ON THE WALL, AT THE CENTER OF THE FRAME.
- 1B. FROM THAT CENTER MARK, MEASURE DOWN 1-1/8 INCHES, AND MAKE A SECOND MARK (B)
- 1C. MEASURE 1-1/4 INCHES TO THE LEFT AND RIGHT OF MARK (B). THESE ARE MARKS (C) & (D)
- 1D. CONFIRM THAT A LINE BETWEEN MARKS (C) & (D) IS LEVEL.
- 1E. DRILL HOLES FOR MOUNTING SCREWS OR SUITABLE ANCHORS CENTERED ON MARKS (C) & (D)
- 1F. SECURELY MOUNT THE HANGER BRACKETS TO THE WALL.



STEP 2 - MARK & INSTALL THE LOCK (BOTTOM) BRACKET:

- 2A. TEMPORARILY HANG THE ANNUNCIATOR FROM THE HANGERS (SEE 'STEP 3' DIAGRAM AT RIGHT)
- 2B. MAKE A PENCIL MARK (E) CENTERED AT THE BOTTOM OF THE FRAME.
- 2C. MEASURE 1-3/16 INCHES UP FROM MARK (E). THIS IS MARK (F)
- 2D. DRILL A HOLE FOR A MOUNTING SCREW OR SUITABLE ANCHOR CENTERED ON MARK (F)
- 2E. DRILL HOLES FOR MOUNTING SCREWS OR SUITABLE ANCHORS CENTERED ON MARKS (C) & (D)
- 2F. SECURELY MOUNT THE HANGER BRACKETS TO THE WALL.



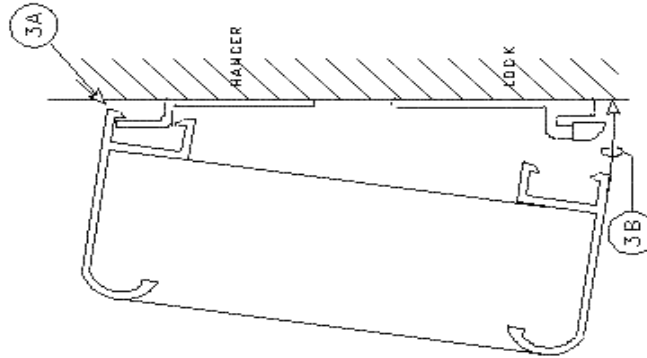
NOTE 1. USE OF CORNELL PART NUMBER D-4400-MT MOUNTING TEMPLATE MAY SIMPLIFY STEPS 1 & 2. IT IS PRE-MARKED AND MEASURED.

NOTE 2. HANGER KIT = CORNELL PART NUMBER A-4452

STEP 3 - HANG THE FRAME:

- 3A. PLACE THE TOP OF THE FRAME ONTO THE HANGERS, AS SHOWN
- 3B. GENTLY PRESS THE BOTTOM OF THE FRAME TOWARDS THE WALL, UNTIL THE LOCK PAWL "CLICKS" INTO PLACE
- 3C. IF IT DOES NOT "CLICK" INTO PLACE, LOOSEN LOCK SCREW, ADJUST UP OR DOWN SLIGHTLY, RE-TIGHTEN, AND REPEAT STEP "3B".

CAUTION! ENSURE THE FRAME IS CENTERED AND ENGAGES THE HANGERS PROPERLY. PRIOR TO LOWERING THE FRAME TO THE WALL, IMPROPER ALIGNMENT WILL CAUSE DAMAGE TO THE HANGERS.



PRESS BOTTOM OF FRAME AGAINST WALL UNTIL THE LOCK PAWL "CLICKS" INTO PLACE.



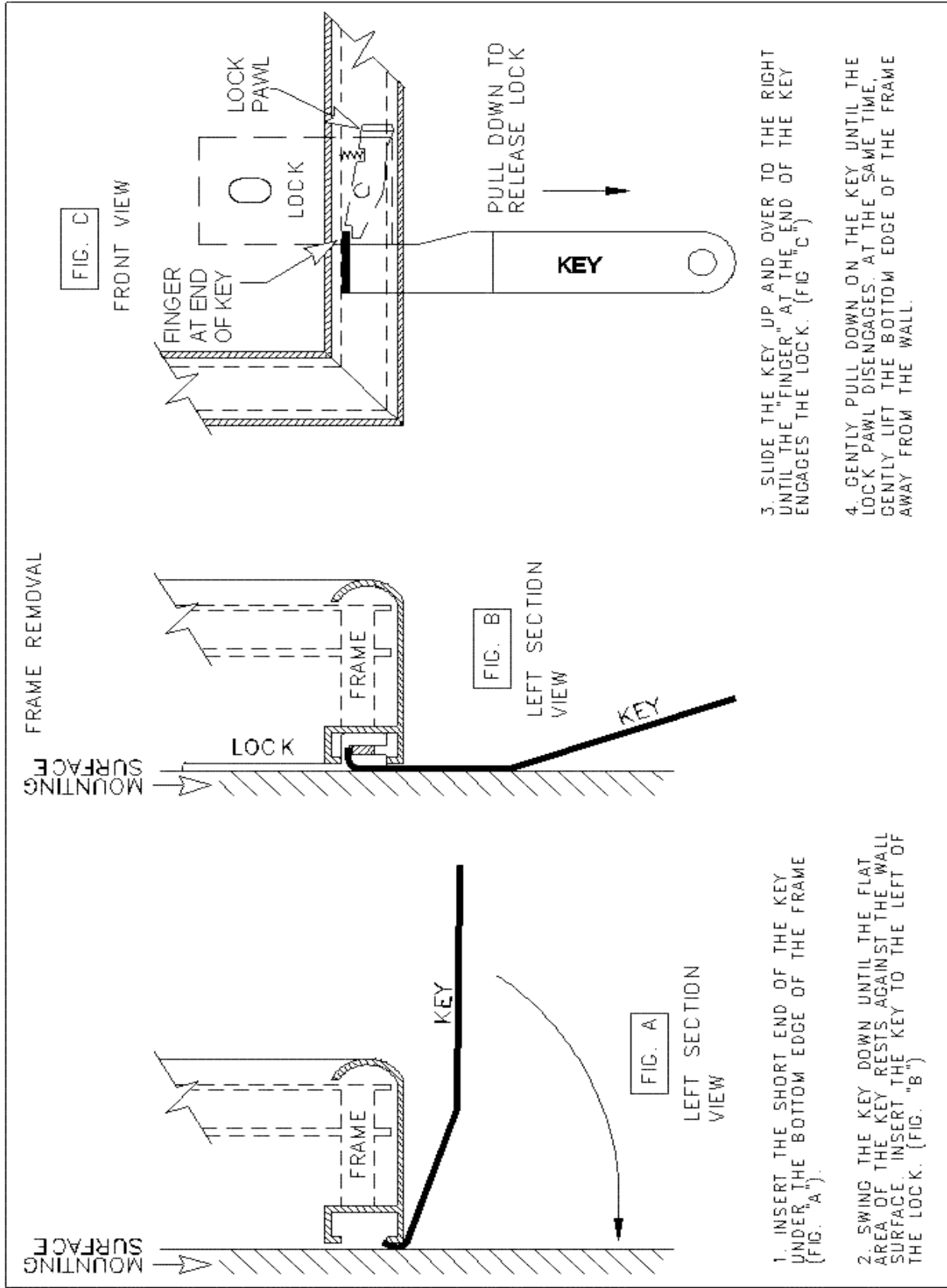
CORNELL Communications, Inc.
 sales@cornell.com 414-351-4660
 Web: www.cornell.com 414-351-4657(fax)

DATE: AUGUST 26, 2008


TITLE: FRAME MOUNTING INSTRUCTIONS

SYSTEM: NURSE/CLINIC

4400 ANNUNCIATOR



1. INSERT THE SHORT END OF THE KEY UNDER THE BOTTOM EDGE OF THE FRAME (FIG. "A").
2. SWING THE KEY DOWN UNTIL THE FLAT AREA OF THE KEY RESTS AGAINST THE WALL SURFACE. INSERT THE KEY TO THE LEFT OF THE LOCK. (FIG. "B")
3. SLIDE THE KEY UP AND OVER TO THE RIGHT UNTIL THE "FINGER" AT THE END OF THE KEY ENGAGES THE LOCK. (FIG. "C")
4. GENTLY PULL DOWN ON THE KEY UNTIL THE LOCK PAWL DISENGAGES. AT THE SAME TIME, GENTLY LIFT THE BOTTOM EDGE OF THE FRAME AWAY FROM THE WALL.

	CORNELL Communications, Inc. sales@cornell.com 414-351-4660 Web: www.cornell.com 414-351-4657(fax)	
	DATE: AUGUST 26, 2008	SYSTEM: NURSE/CLINIC
TITLE: FRAME REMOVAL INSTRUCTIONS		4400 ANNUNCIATOR

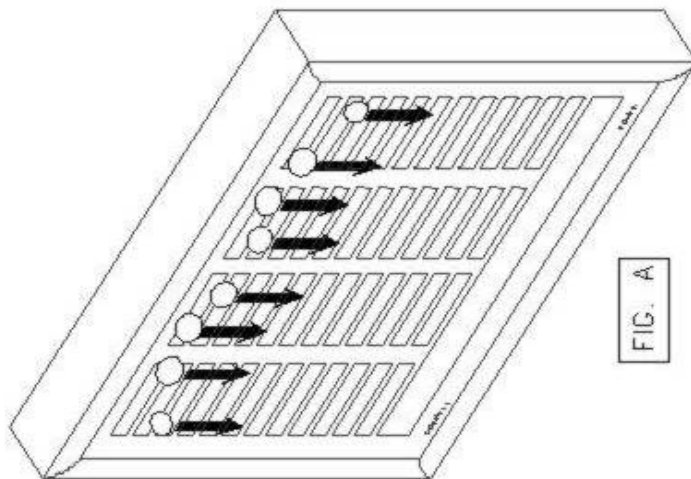


FIG. A

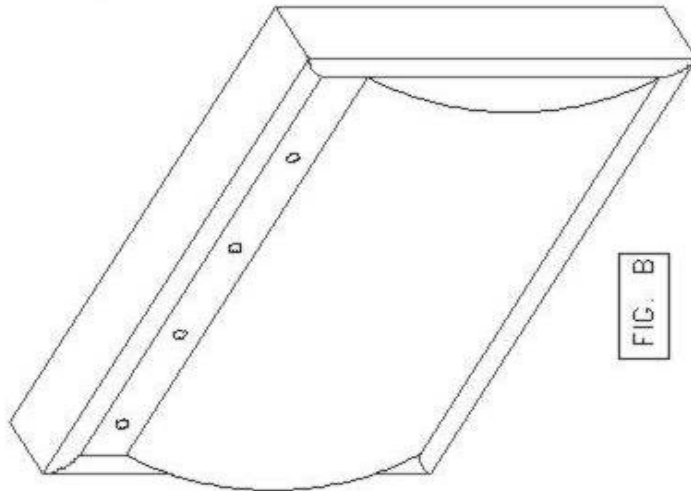


FIG. B

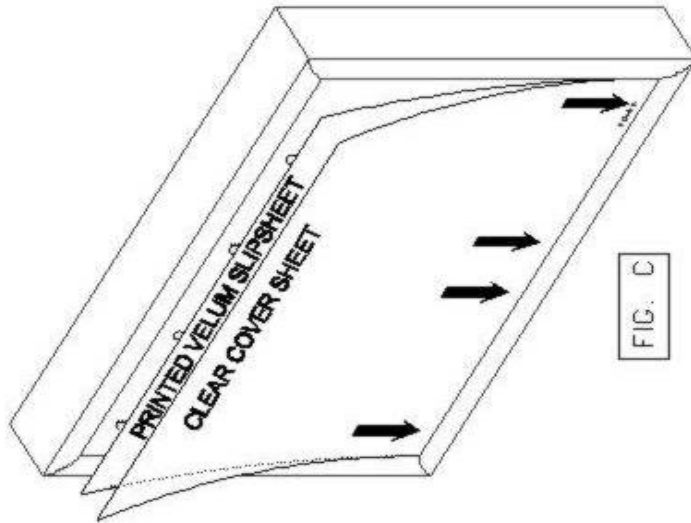


FIG. C

SLIPSHEET REMOVAL:

1. PLACE FINGERTIPS OF BOTH HANDS NEAR TOP OF OVERLAY SHEET, PRESS GENTLY TO SLIDE TOP OF OVERLAY DOWNWARD (FIG. "A").
2. OVERLAY SHEET WILL BOW OUTWARD AS SHOWN IN (FIG. "B").
3. SLIDE THE BOTTOM EDGE OF THE OVERLAY AND SLIPSHEET OUT FROM UNDER THE BOTTOM EDGE OF THE FRAME.

IMPORTANT - WHEN INSERTING THE SLIPSHEET, KEEP IT STACKED / ALIGNED WITH THE COVER SHEET (KEEP BOTH SHEETS TOGETHER & TREAT THEM AS A SINGLE PIECE).

SLIPSHEET INSERTION:

1. SLIDE BOTTOM EDGE OF SLIPSHEET AND OVERLAY INTO "SLOT" BETWEEN METAL FACEPLATE AND BOTTOM EDGE OF FRAME (FIG. "C" - ARROWS).
2. CATCH TOP EDGE OF OVERLAY SHEET AND SLIPSHEET WITH FINGERTIPS / FINGERNAILS. GENTLY PULL DOWNWARDS AT TOP EDGE. SHEETS SHOULD BOW OUTWARD, AS SHOWN IN (FIG. "B")
3. GENTLY PRESS TOP EDGE OF SHEETS FLAT AGAINST METAL FACEPLATE, AND ALLOW TOP EDGES OF BOTH SHEETS TO "SPRING" UPWARD, INTO SLOT BETWEEN METAL FACEPLATE AND TOP EDGE OF FRAME (FIG. "A" - OPPOSITE ARROWS). SMOOTH-DOWN IF NEEDED.



CORNELL Communications, Inc.
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 Web: www.cornell.com 414-351-4657(fax)

DATE: DECEMBER 11, 2008

TITLE: SLIPSHEET REMOVAL / INSERTION

SYSTEM: NURSE/CLINIC

4400 ANNUNCIATOR