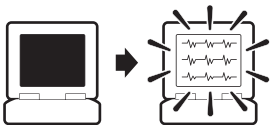
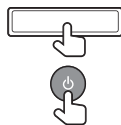




PageWriter TC70/TC50/TC30 Cardiograph QUICK HELP GUIDE



To wake up the cardiograph:



Lift the cover or press any key.
If the unit does not start, press the
On/Standby button.

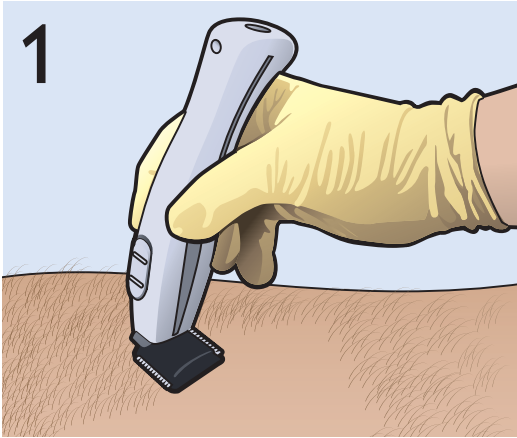
Contents

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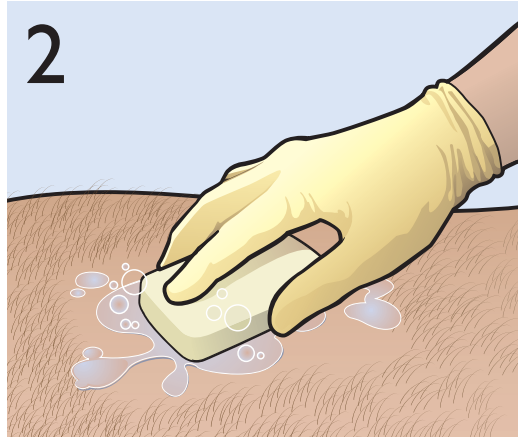
Skin Prep

⚠ Always follow good skin prep techniques for every patient. Proper skin prep helps to ensure a good quality ECG. Skin is a poor conductor of electricity and frequently creates artifact that distorts the ECG signal.

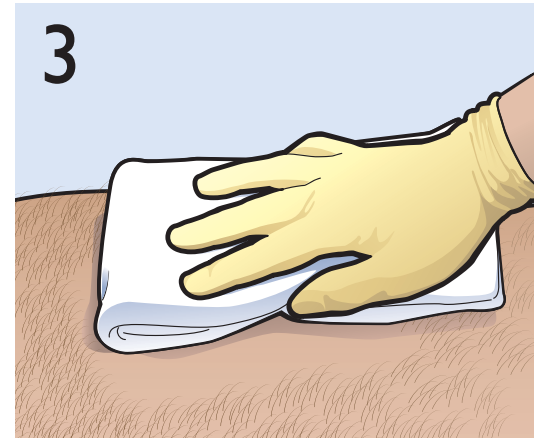
To prepare the skin for an ECG:



Clip hair from electrode sites if necessary. Excessive hair prevents a good connection.



Wash the skin thoroughly with soap and water.

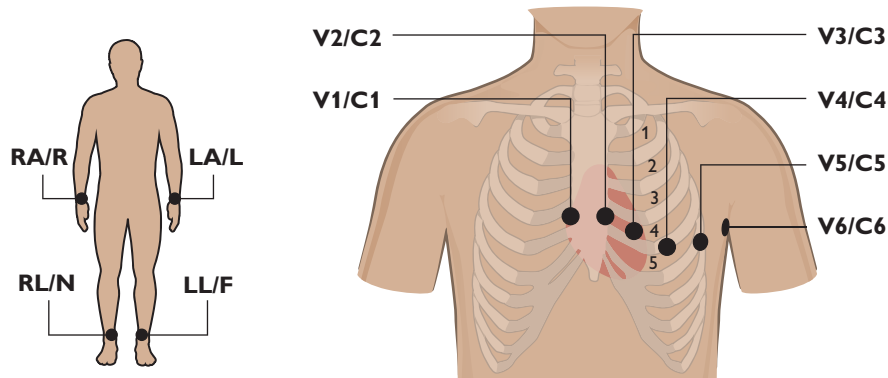


Dry the skin vigorously to increase capillary blood flow to the tissues and to remove the dead, dry skin cells and oil.

Do not use alcohol to clean the skin because it dries the skin. If there is no time, rub the electrode sites with gauze to remove the dead, dry skin and to increase capillary flow (adult patients only).

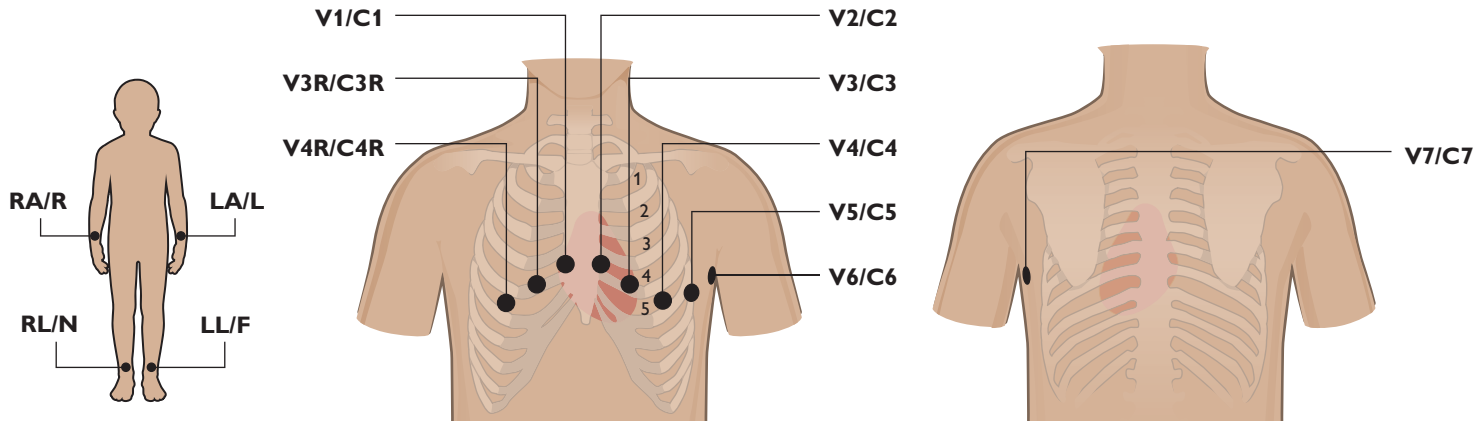
Attaching Electrodes and Lead Wires

Standard 12-Lead AAMI/IEC



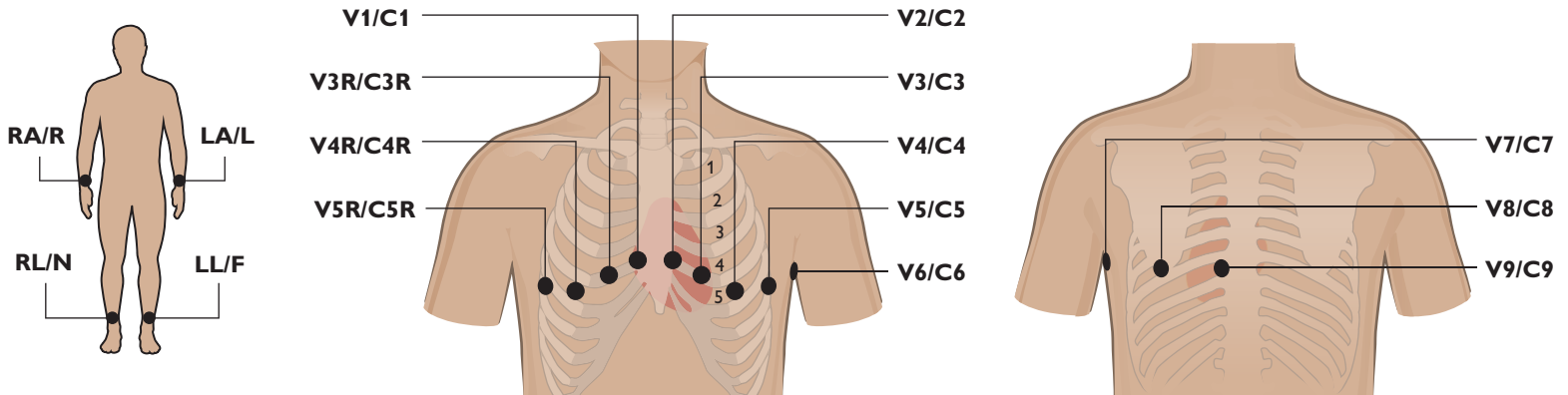
AAMI	Color	IEC	Color	Location
V1	Red	C1	Red	Right side of sternum in the 4th intercostal space
V2	Yellow	C2	Yellow	Left side of sternum in the 4th intercostal space
V3	Green	C3	Green	Midway between V2/C2 and V4/C4
V4	Blue	C4	Brown	On the 5th intercostal space at the left midclavicular line
V5	Orange	C5	Black	Anterior axillary line at same level as V4/C4 and V6/C6, midway between V4/C4 and V6/C6
V6	Purple	C6	Purple	Left mid-axillary line (middle of the arm pit) at the same level as V4/C4
RA	White	R	Red	Inside right arm between wrist and elbow
LA	Black	L	Yellow	Inside left arm between wrist and elbow
RL	Green	N	Black	Inside right calf between knee and ankle
LL	Red	F	Green	Inside left calf between knee and ankle

Pediatric 15-Lead AAMI/IEC (TC70/TC50 only)



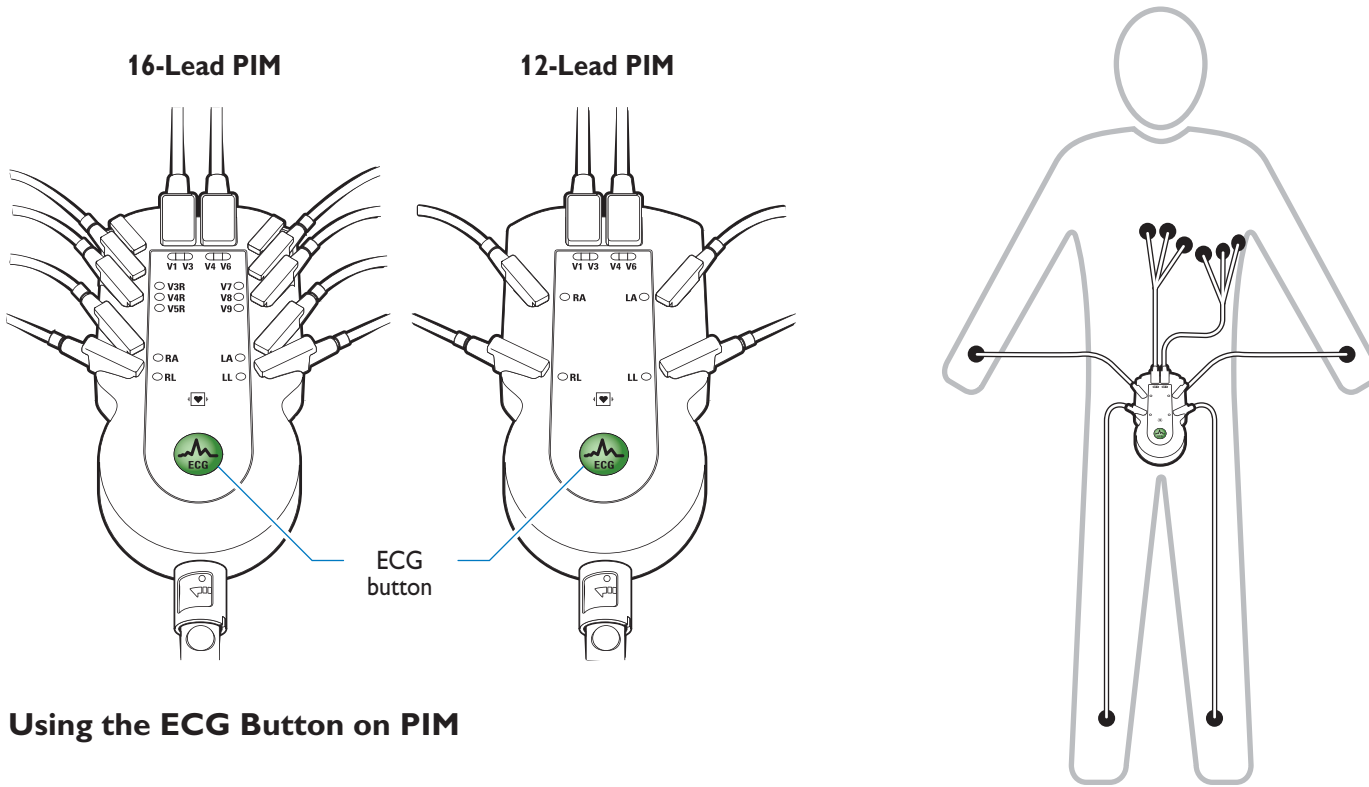
AAMI	Color	IEC	Color	Location
V1	Red	C1	Red	Right side of sternum in the 4th intercostal space
V2	Yellow	C2	Yellow	Left side of sternum in the 4th intercostal space
V3	Green	C3	Green	Midway between V2/C2 and V4/C4
V4	Blue	C4	Brown	On the fifth intercostal space at the left midclavicular line
V3R	Yellow	C3R	Pink	Midway between V1/C1 and V4R/C4R, right side of chest
V4R	Red	C4R	Gray	Midclavicular line in the 5th intercostal space, right side of chest
V5	Orange	C5	Black	Anterior axillary line at same level as V4/C4 and V6/C6, midway between V4/C4 and V6/C6
V6	Purple	C6	Purple	Left mid-axillary line (middle of the arm pit) at the same level as V4/C4
V7	Black	C7	Orange	Left posterior axillary line at the same level as V6/C6
RA	White	R	Red	Inside right arm between wrist and elbow
LA	Black	L	Yellow	Inside left arm between wrist and elbow
RL	Green	N	Black	Inside right calf between knee and ankle
LL	Red	F	Green	Inside left calf between knee and ankle

Adult Extended Lead AAMI/IEC (TC70/TC50 only)



AAMI	Color	IEC	Color	Location
V1	Red	C1	Red	Right side of sternum in the 4th intercostal space
V2	Yellow	C2	Yellow	Left side of sternum in the 4th intercostal space
V3	Green	C3	Green	Midway between V2/C2 and V4/C4
V4	Blue	C4	Brown	On the 5th intercostal space at the left midclavicular line
V3R	Yellow	C3R	Pink	Midway between V1/C1 and V4R/C4R, right side of chest
V4R	Red	C4R	Gray	On the 5th intercostal space at the left midclavicular line, right side of chest
V5	Orange	C5	Black	Anterior axillary line at same level as V4/C4 and V6/C6, midway between V4/C4 and V6/C6
V5R	Green	C5R	Green	Right anterior axillary line at same level as V4R/C5R
V6	Purple	C6	Purple	Left mid-axillary line (middle of the arm pit) at the same level as V4/C4
V7	Black	C7	Orange	Left posterior axillary line at the same level as V6/C6
V8	Blue	C8	Blue	Under the left mid-scapular line at the same level as V6/C6
V9	Yellow	C9	Yellow	Left paraspinal border at the same level as V6/C6
RA	White	R	Red	Inside right arm between wrist and elbow
LA	Black	L	Yellow	Inside left arm between wrist and elbow
RL	Green	N	Black	Inside right calf between knee and ankle
LL	Red	F	Green	Inside left calf between knee and ankle

Using the Patient Interface Module (PIM)



Using the ECG Button on PIM

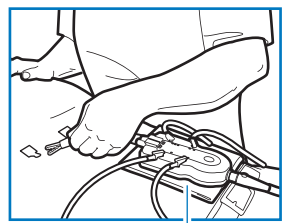


Button turns green when all required patient info is entered, and ECG signal quality is good.

1x to take routine ECG
2x to take STAT
(button does not have to be lit)

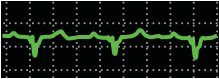

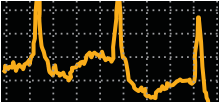

! The PIM is an electronic device and can feel warm if placed on bare skin.

If the PIM is placed on the patient's bare skin, always place a sheet or cloth between the PIM and the patient.




Checking Signal Quality

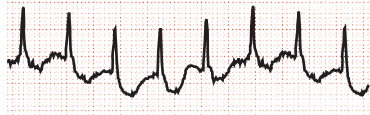
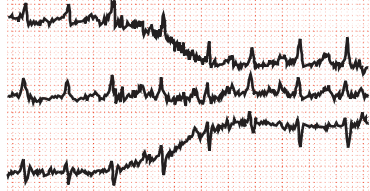
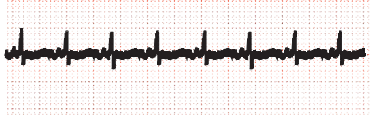
Check the color-coded waveforms on the Main screen. The color of the waveform indicates the lead signal quality.

Waveform Color	Indicates	Possible Causes
Green 	<ul style="list-style-type: none"> ▪ Good connection; when all leads are of good quality and all required patient information is entered, the ECG button is lit. ▪ Take the ECG. 	
Yellow 	<ul style="list-style-type: none"> ▪ Moderate noise level, artifact, electrode interference, or a poor electrode connection 	<ul style="list-style-type: none"> ▪ Dry gel on electrode ▪ Inadequate patient preparation ▪ Electrical interference from another device ▪ Moderate patient movement, tense patient
Orange 	<ul style="list-style-type: none"> ▪ Severe artifact, electrical interference, or a poor electrode connection ▪ One or more limb leads are disconnected (chest leads display orange) 	<ul style="list-style-type: none"> ▪ Electrical interference from another device ▪ Patient tremors, shivering patient, inadequate patient preparation ▪ Very poor electrode contact, dry electrodes ▪ Limb lead(s) are disconnected
Red dotted line 	<ul style="list-style-type: none"> ▪ Loose electrode connection ▪ ECG waveform data that cannot be analyzed 	<ul style="list-style-type: none"> ▪ Inoperative electrode, electrode that has fallen off of the patient ▪ Defibrillation has been performed too recently to take ECG measurements ▪ Other cause that renders waveform data useless



Touch the **Map** button to check for any loose or inoperative electrodes or lead wires. A red  mark identifies the location of a bad electrode or lead connection.


Signal Quality Troubleshooting

Waveform	Possible Cause	Solution
<p data-bbox="42 270 310 296">Wandering Baseline</p> 	<ul style="list-style-type: none"> ■ Inadequate patient preparation ■ Moderate patient movement ■ Very poor electrode contact ■ Patient respiratory interference 	<ul style="list-style-type: none"> ■ Reassure the patient and make sure that the patient is comfortable. If the patient has tremors, attach the limb electrodes higher on the patient (closer to torso). ■ Ensure that the lead wires are not pulling on the electrodes and that the electrodes are firmly attached. ■ Turn on the Baseline Wander filter.
<p data-bbox="42 560 277 585">Somatic Tremors</p> 	<ul style="list-style-type: none"> ■ Patient is cold and shivering ■ Patient has tremors 	<ul style="list-style-type: none"> ■ Place a blanket on the patient to warm the patient. ■ Assist with limiting patient movement.
<p data-bbox="42 850 260 875">AC Interference</p> 	<ul style="list-style-type: none"> ■ Electrical interference from another device (IV pump, microwave oven, cellular phone, wireless device) ■ An electrical device near the cardiograph that is improperly grounded ■ An improperly gelled electrode (dried gel) 	<ul style="list-style-type: none"> ■ Check for devices that could be causing electrical interference. Unplug the devices or switch to battery power. ■ Lay the lead wires alongside the limbs and away from any electrical devices. ■ Turn on the AC filter.

Taking a STAT or Urgent ECG

1



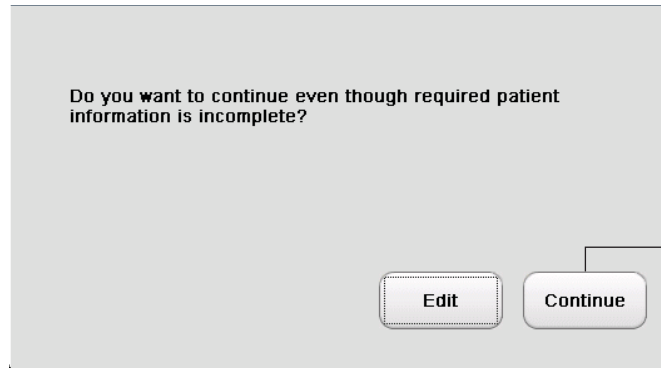
- Connect the patient.
- Check signal quality.
- Touch the **Map** button to display the location of any loose electrodes or leads. A loose electrode or lead is indicated by a red  mark.

2



x2

- Press the **ECG** button (on the PIM or above the keyboard) twice rapidly.
- The ECG is acquired and appears on the Preview screen. See page 17 for information.




If a message appears that patient information is missing, touch **Continue**.

Taking a Routine ECG

1



- Connect the patient.
- Check signal quality.
- Touch the **Map** button to display the location of any loose electrodes or leads. A loose electrode or lead is indicated by a red  mark.

2



- Once the patient is connected, the **ID** button is lit. Touch the **ID** button.
- Enter patient information. Required information is indicated in blue type and must be completed in full in order to transfer the ECG to TraceMaster or other remote system (if supported).



Touch the **Find Patient** tab to search for patient information.

Touch the **Worklist** tab to select a pending order or demographics. The number on the tab indicates how many patients are available in the Worklist. See page 27 for information.

3

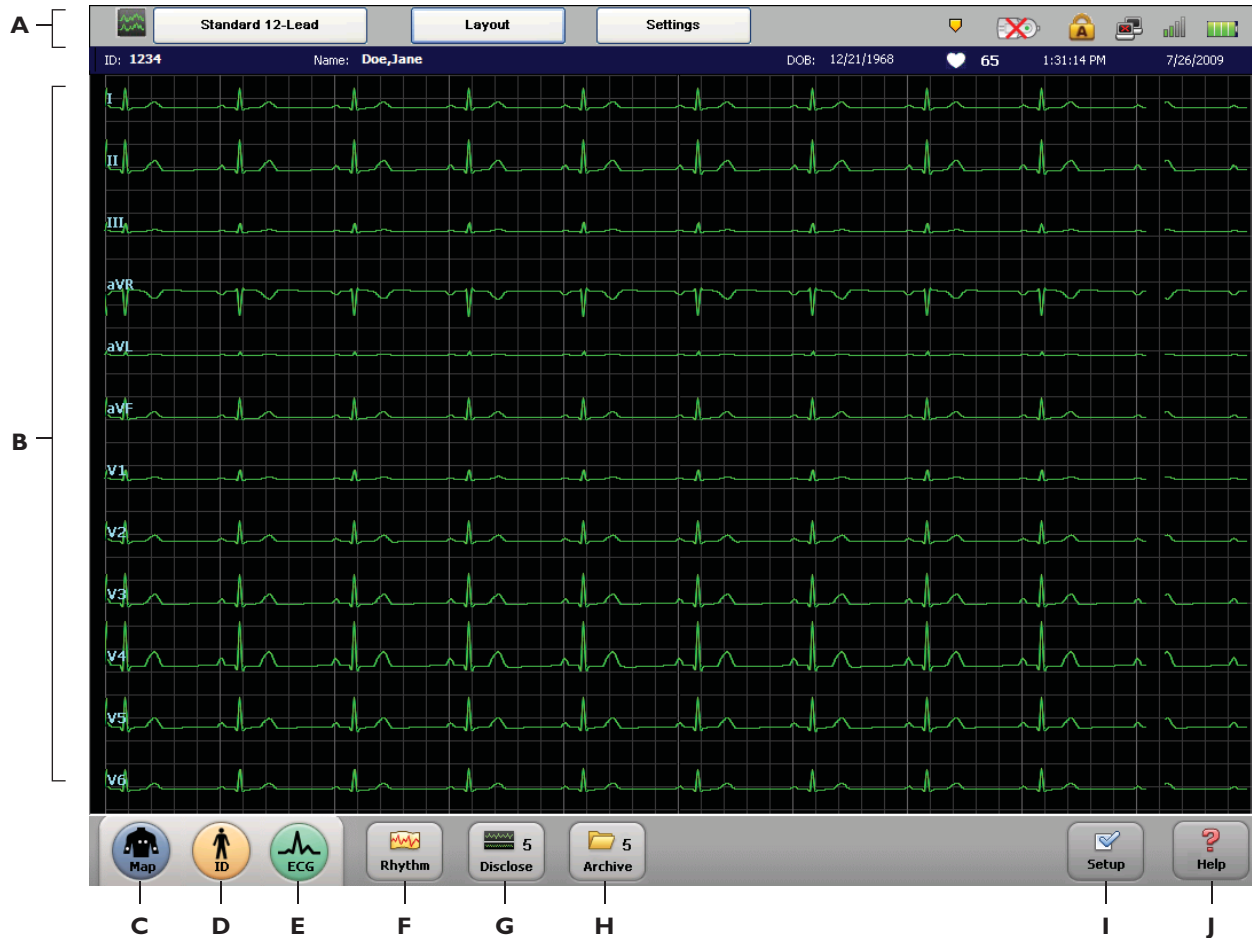


x1










- When all required patient information has been entered, and all leads are connected and are of good quality, the **ECG** button is lit. Touch the **ECG** button on the cardiograph or on the PIM.
- The ECG is acquired and appears on the Preview screen. See page 17 for information.

Using the Main Screen

Main Screen

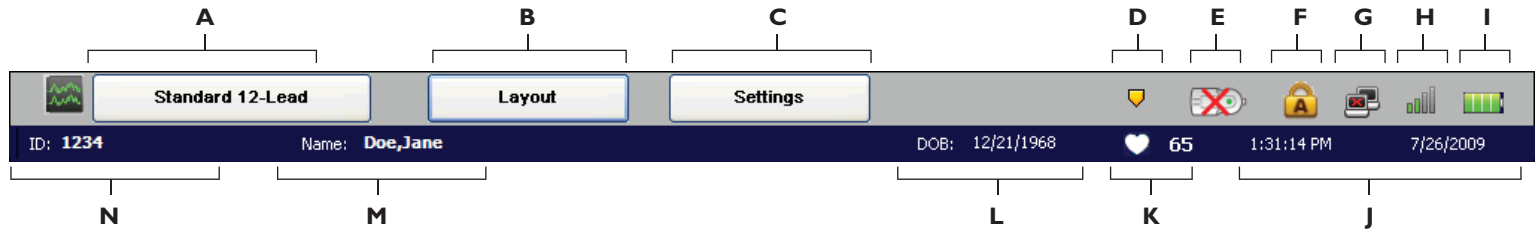








Main Screen

Name	Description
A Status Bar	<ul style="list-style-type: none"> ■ Displays operating information for the cardiograph ■ See page 13 for information
B Waveform Display area	<ul style="list-style-type: none"> ■ The display area for waveform data. The waveforms are color-coded to indicate signal quality. ■ See page 7 for information
C 	<ul style="list-style-type: none"> ■ Displays a map of electrode placement ■ A loose lead or electrode is indicated by a red  mark
D 	<ul style="list-style-type: none"> ■ Enter patient information for the current patient ■ Select patient information from the Worklist, see page 27 for information
E 	<ul style="list-style-type: none"> ■ Touch to take an ECG (after entering patient information) ■ Touch 2x to take a STAT or urgent ECG (no patient information is entered)
F 	<ul style="list-style-type: none"> ■ Record rhythm strips of up to 12 or 16 leads ■ See page 21 for information
G 	<ul style="list-style-type: none"> ■ View continuous data for a selected lead ■ View saved Events ■ See page 22 for information
H 	<ul style="list-style-type: none"> ■ View, print, and transfer ECGs saved to the Archive ■ See page 35 for information
I 	<ul style="list-style-type: none"> ■ Change cardiograph settings (may require a password) ■ Use Service Utilities (may require a password)
J 	<ul style="list-style-type: none"> ■ Get help with using the cardiograph






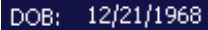
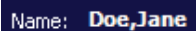
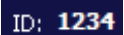
Using the Main Screen

Status Bar



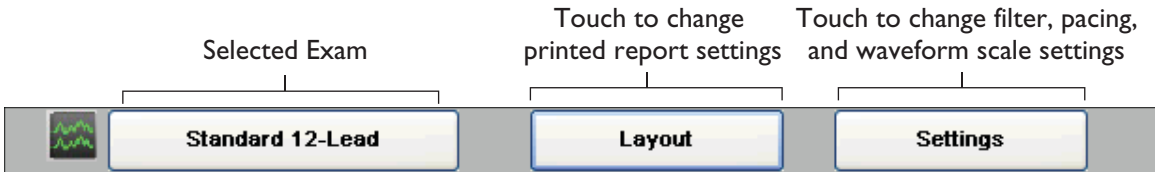
Name	Description
A Exam Settings	<ul style="list-style-type: none"> ■ Displays current selected Exam type ■ Changes the Exam setting ■ See page 15 for information
B 	<ul style="list-style-type: none"> ■ Changes printed ECG report settings ■ Changes the amount and type of interpretive information on the ECG report
C 	<ul style="list-style-type: none"> ■ Changes filter settings, pacing detection settings ■ Changes waveform size and scale settings
D 	<ul style="list-style-type: none"> ■ This flashing icon indicates that saved Event markers () have not yet been reviewed on the Disclose screen, and will be deleted within the next 5 minutes ■ Touch the Disclose button to review saved Events ■ See page 22 for information
E 	<ul style="list-style-type: none"> ■ Indicates that the Patient Interface Module (PIM) is disconnected from the cardiograph ■ Check the PIM cable
F 	<ul style="list-style-type: none"> ■ Indicates that the Caps Lock setting is enabled (keyboard types in all capital letters) ■ Touch the <i>Caps Lock</i> key (on keyboard) to disable the setting

Status Bar

Name	Description
G 	<ul style="list-style-type: none">■ Current LAN connectivity status; a red “x” (as shown) indicates no connection■ Tap the icon to view full LAN connectivity status information
H 	<ul style="list-style-type: none">■ Current wireless LAN connectivity status■ Number of green bars indicates signal strength; the more bars the better the signal■ Tap the icon to view full wireless LAN connectivity status information
I 	<ul style="list-style-type: none">■ Current battery power status■ Tap the icon to view full battery operating information, and estimated remaining operating time for current battery charge
J 	<ul style="list-style-type: none">■ Current date and time■ Date and time can be changed in the Archive or in Setup (may require a password); on these screens, tap the displayed date and time to change it
K 	<ul style="list-style-type: none">■ Heart rate of the current patient in beats per minute (bpm)
L 	<ul style="list-style-type: none">■ Date of birth of the current patient
M 	<ul style="list-style-type: none">■ Name of the current patient
N 	<ul style="list-style-type: none">■ ID number of the current patient

Using the Main Screen

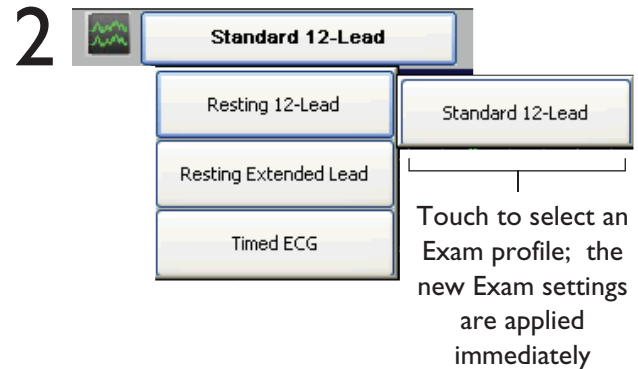
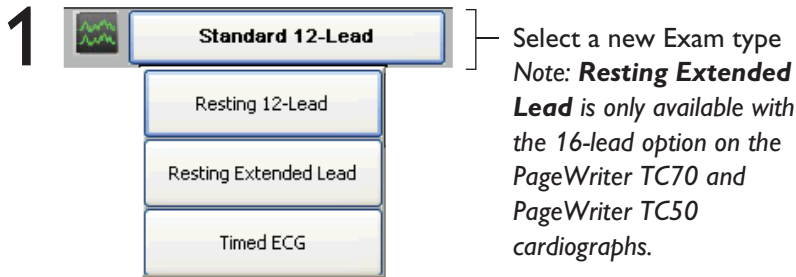
Working with Exams



Exam settings define:

- leads displayed on the screen
- leads printed on the ECG
- all printed ECG report settings

To change the Exam Type:



Using the Main Screen

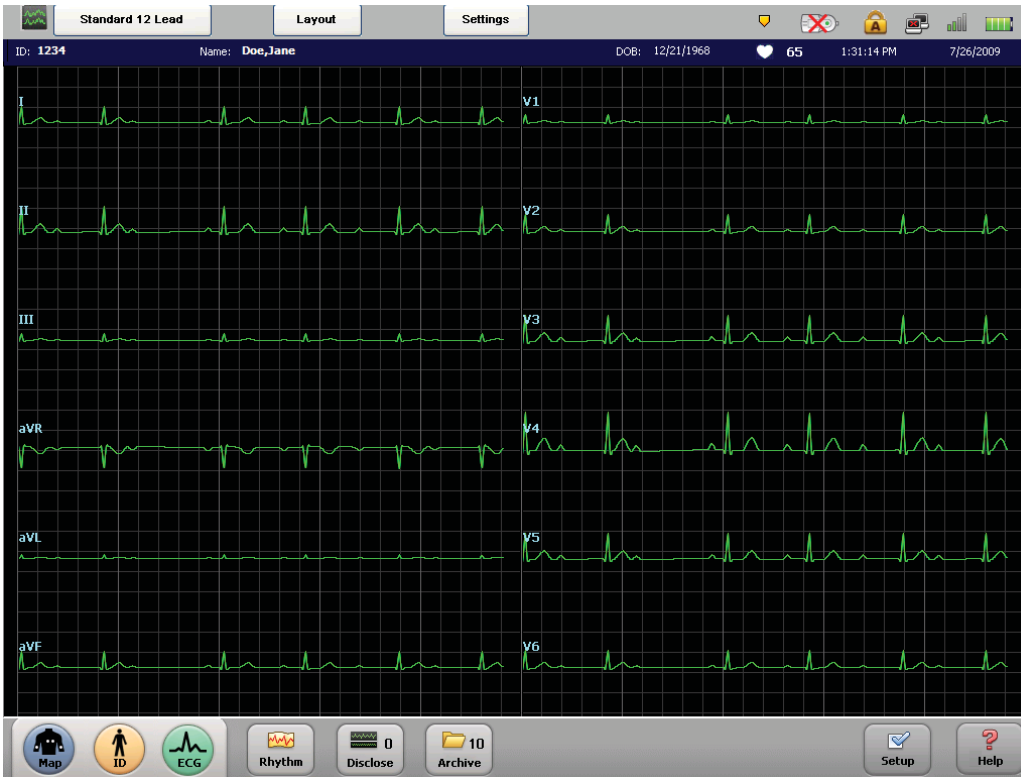
Changing the Waveform Display

The format of the waveforms displayed on the screen can be changed at any time.

Press the down arrow key  or the up arrow key  to change the lead format displayed on the screen.

Split Screen View

This split screen view shows 6 limb and augmented leads on the left, and all precordial and posterior leads on the right.



Note: 16-leads are only available on the TC70 and the TC50 cardiographs.

Using the Preview Screen

Preview Screen (continued on page 19)

The Preview screen displays how the ECG will appear when printed. The ECG may automatically print, save, or transfer to TraceMaster or other remote system, or you can touch the **Print**, **Save**, or **Transfer** buttons on this screen to manually perform these functions.







Critical Values Message

If any of these statements appear on this area of the ECG, get help immediately!

- Complete Heart Block
- Very High Heart Rate
- Acute MI
- Acute Ischemia

The screenshot shows the ECG preview interface. At the top, there are buttons for 'Layout' (A) and 'Settings' (B). The patient information bar includes ID: 12345, Name: Doe, DOB: 1/1/1966, and a heart rate of 80. The main display area shows patient details: 987654321, 6/28/2007, 2:14:17 PM, Doe, Jane(H), 195 lbs, 65 in, BP: Community Hospital (21), Dept: ER (45). The ECG interpretation text reads: 'Rate 35 . COMPLETE AV BLOCK WITH WIDE QRS COMPLEX.....V-rate<50, QRSd=140, AV dissoc'. A critical values message is highlighted in a blue box: '>>>> Complete Heart Block <<<<'. The ECG traces are displayed in a 6-lead format (I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6). On the right side, there are buttons for 'Print' (C), 'Save' (D), 'Transfer' (E), and 'Last ECG' (F). At the bottom, there are navigation buttons for 'Map', 'ID', 'ECG', and 'Page'.

Preview Screen

Name	Description
A 	<ul style="list-style-type: none"> ■ Change the format of the ECG report displayed on the screen ■ Change if the waveforms are displayed simultaneously or time sequentially ■ Change the rhythm lead, change the amount of interpretation that appears on the ECG report ■ The new settings are immediately applied
B 	<ul style="list-style-type: none"> ■ Change optional filter settings (Artifact, Baseline Wander) ■ Change pacing detection setting, speed setting, and the waveform scale setting ■ The new settings are immediately applied
C 	<ul style="list-style-type: none"> ■ Print the displayed ECG
D 	<ul style="list-style-type: none"> ■ Save the displayed ECG to the Archive
E 	<ul style="list-style-type: none"> ■ Send the ECG to TraceMaster or remote system for processing. <i>Note: Only ECGs with complete patient information can be transferred. Touch the ID button to complete any missing patient information that is required by your facility.</i>
F 	<ul style="list-style-type: none"> ■ Review on this Preview screen and print on the cardiograph the most recent previous ECG from the same patient ■ Requires active TraceMaster connection

Note: The **Print**, **Save**, **Transfer**, or **Last ECG** buttons may not appear on this screen, or may appear grayed out (cannot be selected) depending on how the cardiograph is configured. If the buttons are grayed out, the cardiograph automatically perform these functions. If the buttons do not appear, the cardiograph is not configured to support these functions.

Preview Screen, continued

Standard 12 Lead **Layout** **Settings**

ID: 12345 Name: Doe DOB: 1/1/1966 80 2:30:16 PM 5/27/2008

5/28/2008 1:04:26 PM

Rate 120 . AGE IS NOT ENTERED, ASSUMED TO BE 50 YEARS OLD FOR PURPOSE OF ECG INTERPRETATION Page 1 of 3
 . SINUS OR ECTOPIC ATRIAL TACHYCARDIA.....P axis (-45,135), U-rate> 99
 PR 92 . CONSIDER RIGHT VENTRICULAR HYPERTROPHY.....large R or R' V1/V2
 QRSd 86 . LEFT VENTRICULAR HYPERTROPHY.....(Sv1+Rv5)>3.5*(RaVL+Sv3)>2.80
 QT 392 . ABNORMAL T, CONSIDER ISCHEMIA, DIFFUSE LEADS.....T <-0.20mV, ant/lac/inf
 QTc 554

--AXIS--
 P 163
 QRS 12 - ABNORMAL ECG -
 T 12 Unconfirmed Diagnosis

Dev: Speed: 25 mm/sec Limb: 10 mm/mV Chest: 10.0 mm/mV F 60+ 0.15-100 Hz PR090A b LP?

Print
Save
Transfer
Last ECG

Close

Map **ID** **ECG** **Page**





J

G

H

I

Preview Screen, continued

G 	<ul style="list-style-type: none">■ View additional pages of the ECG report
H 	<ul style="list-style-type: none">■ Close the Preview screen and return to the Main screen
I 	<ul style="list-style-type: none">■ Advance the printer paper to the beginning of the next page
J 	<ul style="list-style-type: none">■ Enter missing patient information, or edit existing patient information for the displayed ECG (not available with Last ECG feature). <i>Note: On the Preview screen, this feature is not used to enter patient information for a new patient.</i>

Using Rhythm



Touch (from Main screen) to print recordings of up to 12 or 16 leads



Change pacing, or scale settings,
or to enable or disable the Artifact filter



Stop printing the Rhythm recording



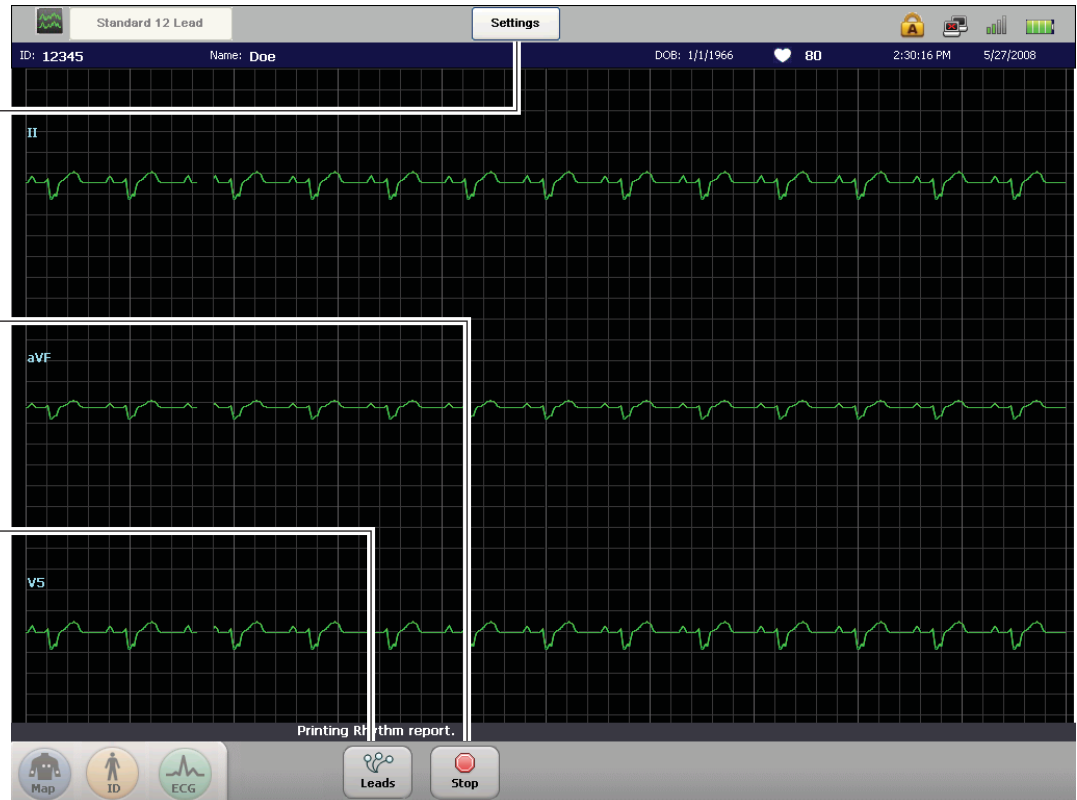
Change the Rhythm leads



Advance the printer paper
to the beginning of the
next page



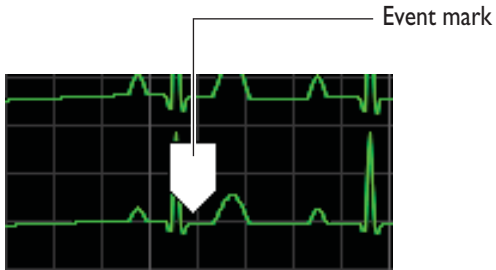
Exit Rhythm and return
to the Main screen



Using Event Markers and Disclose

Using Event Markers (Main or Rhythm screen)

- 1 Main or Rhythm screen:** if an event of interest is viewed, touch and hold directly above the waveform for two seconds to capture the significant data for future review and processing.



Once the data is captured, a white **Event** mark appears above the waveform.

As the waveform data on the screen refreshes, additional Events can be captured as necessary. Even though an Event scrolls off of the screen, it is saved for review on the Disclose screen.

Maximum Number of Events

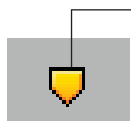
TC70: 15 Events

TC50: 10 Events

TC30: 6 Events



The **Disclose** button (on bottom toolbar) displays the number of Events (**5**) captured for the current patient session.




If this icon flashes on the Status Bar (top of screen) touch **Disclose** button immediately, or saved Events will be deleted.

- 2** The captured Event(s) can be fully reviewed from the Disclose screen. Touch the **Disclose** button to open the screen. The Disclose screen displays continuous waveform data for a selected lead. For the TC70, up to 20 minutes is displayed. For the TC50, up to 12 minutes is displayed. For the TC30, up to 6 minutes is displayed.

Using Disclose, Default View (continued on page 24)

Use the Disclose screen to review Events, or to view continuous waveform data for a selected lead.

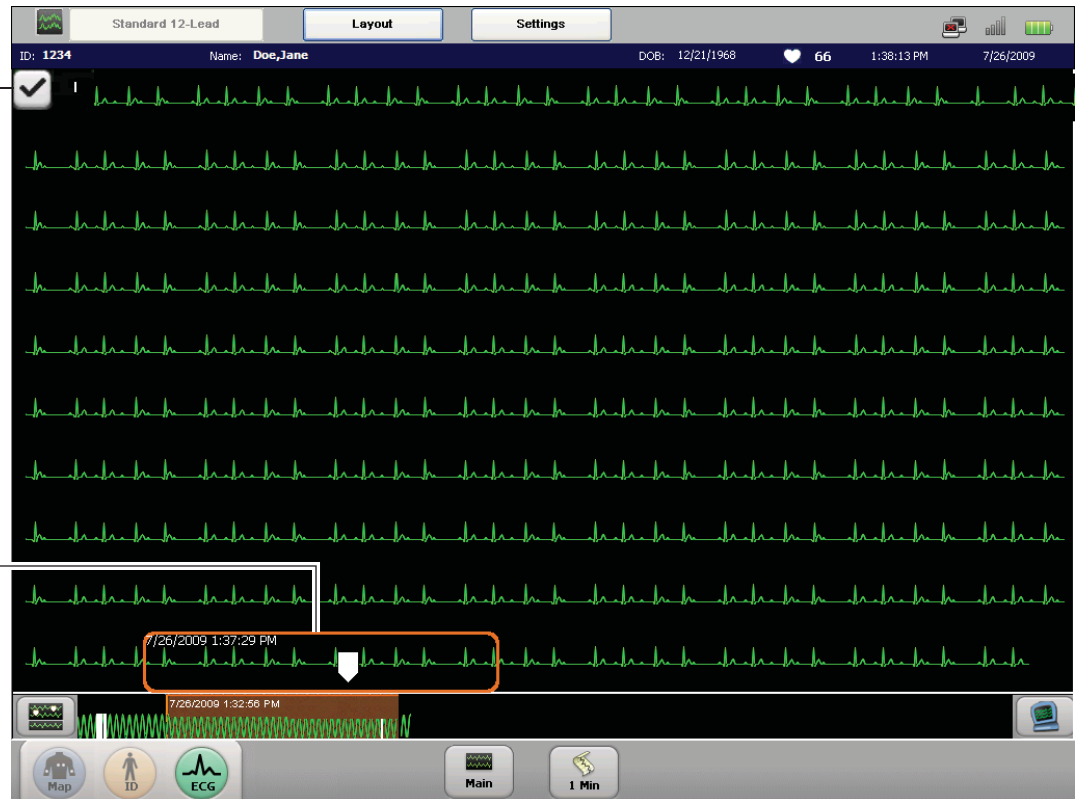
 5 Touch button on the Main screen. The Disclose screen appears and displays static waveform data for the selected lead. This is the default Disclose view. See page 25 for information on viewing live waveform data.



Touch to change the displayed Disclose lead.



This box contains 10 seconds of data that can be printed as an ECG; touch a spot on the screen to move it.



Using Disclose, Default View, continued

Use the Disclose screen to review Events, or to view continuous waveform data for a selected lead.

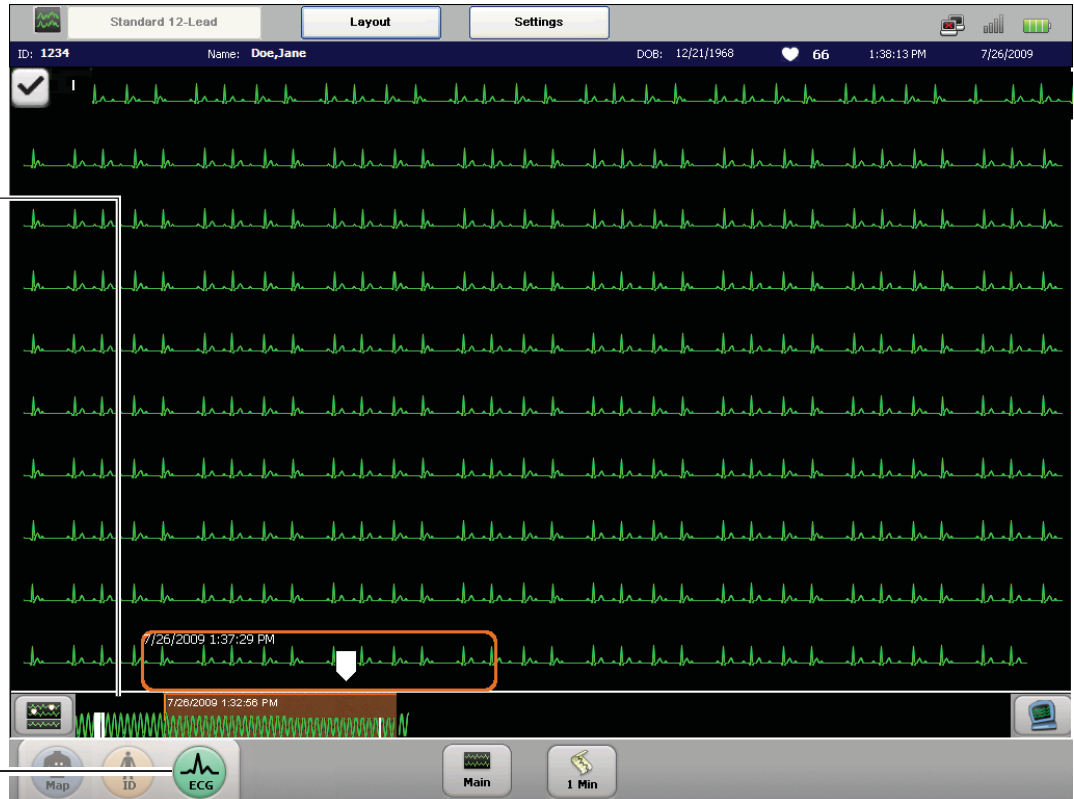
Data timeline



- Orange block indicates data displayed above the timeline
- Tap the timeline to move the orange block
- White lines are individual Events



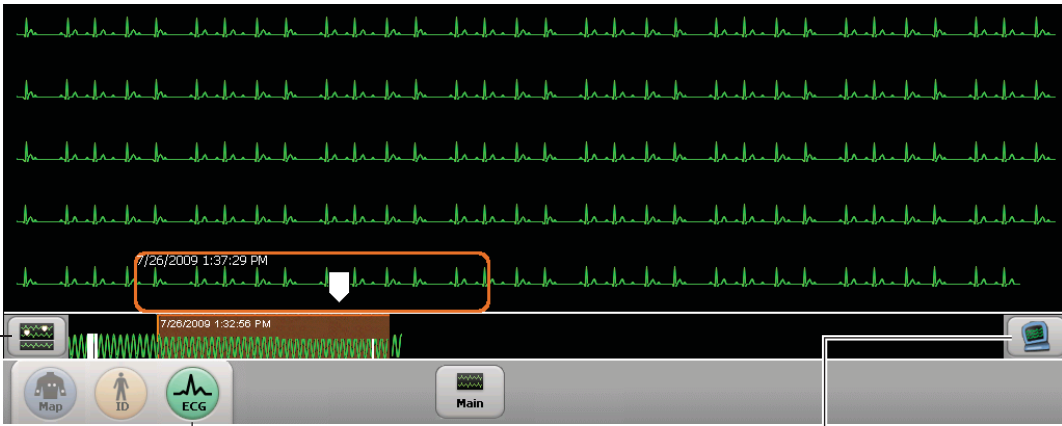
Touch the **ECG** button to take an ECG of the data inside the box.



Touch to print a 1-minute continuous report of the selected Disclose lead. The 1-minute report begins at the time displayed in the orange box.

Using Disclose, Live Patient View

The Disclose screen can also display live continuous patient ECG data for a selected lead.



The screenshot displays a live ECG waveform on a black background. A white arrow points to a specific event on the waveform, which is highlighted by an orange box. Below the waveform, a grey bar contains several icons: a small ECG icon, a 'Map' icon, an 'ID' icon, a larger 'ECG' icon, and a 'Main' icon. A date and time stamp '7/26/2009 1:32:56 PM' is visible above the 'ECG' icon. A callout box on the left shows a zoomed-in view of the event on the waveform. A callout box on the right shows a small icon of a patient monitor.

Touch this button to review Events that have scrolled off of the data timeline.

Touch this button to take an ECG of the most recent 10 seconds of waveform data.

Touch this button to display live patient waveforms. Touch again to return to a static view.

Using Disclose, Saved Event Markers

Events that occurred more than 20 minutes in the past (TC70), 12 minutes in the past (TC50) or 5 minutes in the past (TC30) are saved as 30-second segments that can be reviewed on the screen and printed as ECG reports.



Touch to change the displayed Disclose lead.

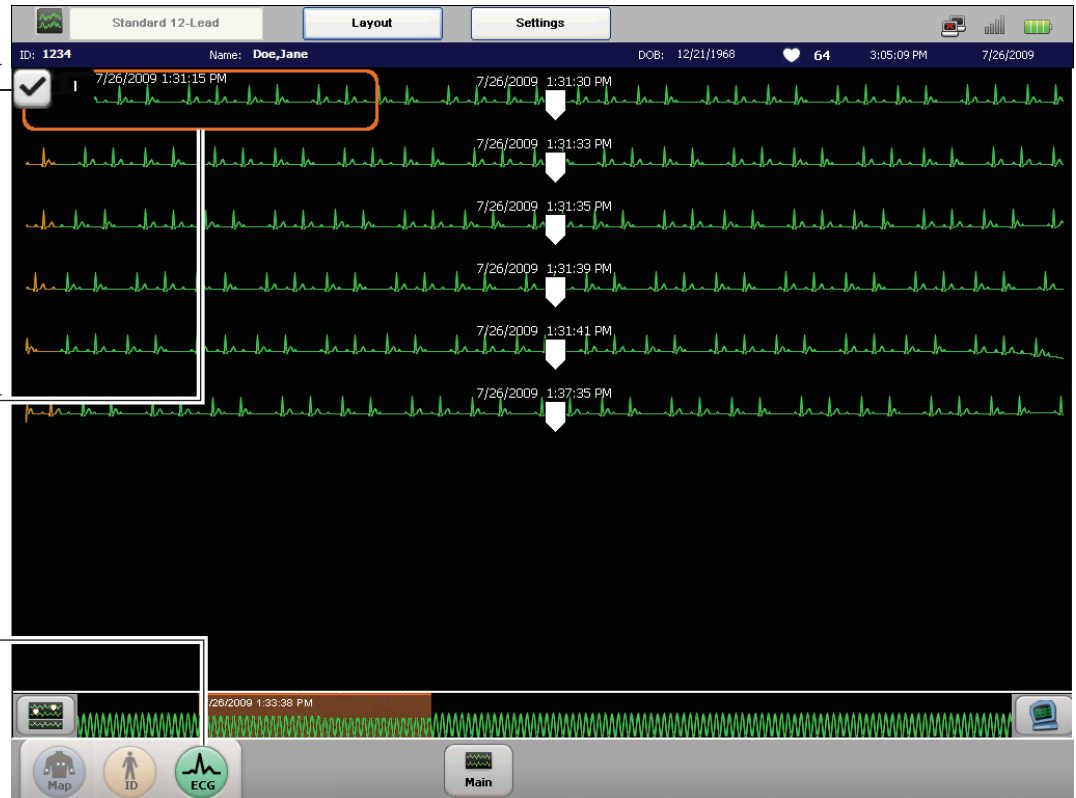
Individual Events that occurred in the past are saved in 30-second segments that can be reviewed and printed as ECG reports.



Touch a spot on the 30-second segment to move the box. The box contains 10 seconds of ECG data.



Touch this button to print an ECG of the data captured in the box.



Using the Worklist

Worklist Screen (continued on page 29)

A — [New Patient] [Worklist 130] [Find Patient] [Edit Patient ID]

B — [Outpatient_sur] [Get Orders]

C — [Table Headers]

D — [Table Row 2]

E — [Get Orders]

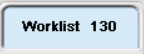
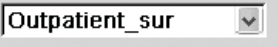



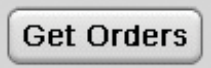
Select	Admit Date/Time	Alternate PatID	Visit ID	Patient ID	Last name	First name
<input type="checkbox"/>	4/25/2010	5353305165	2943552844	5582025154	Aguilar	Theodore
<input checked="" type="checkbox"/>	4/25/2010	6222012287	6483256599	8165912176	Alvarado	Phyllis
<input type="checkbox"/>	4/26/2010	7173787789	2815457878	3734752157	Baldwin	Russell
<input type="checkbox"/>	4/25/2010	8411340633	3724919239	9613264511	Baldwin	Jeffery
<input type="checkbox"/>	4/24/2010	9111325056	5564597415	5599512414	Baldwin	Robin
<input type="checkbox"/>	4/25/2010	3585213236	7886769869	7528407175	Ballard	Cindy
<input type="checkbox"/>	4/26/2010	4830998232	4914584043	8075144441	Barber	Üÿÿ
<input type="checkbox"/>	4/25/2010	3924516576	9337973169	4377997058	Benson	Pauline
<input type="checkbox"/>	4/24/2010	7527655369	2914373716	4890991483	Benson	Cindy
<input type="checkbox"/>	4/25/2010	4968585020	1075898089	9214667208	Benson	Leroy
<input type="checkbox"/>	4/25/2010	6387595689	6980225980	3862298736	Blair	Danny

Available: 70 Selected: 1

[Delete] [Select] [Cancel]

Downloading Patient Information, Please Wait... [Stop]

Worklist Screen

Name	Description
A 	<ul style="list-style-type: none">▪ Touch a tab to select it. The selected tab is highlighted in blue.▪ The number on the Worklist tab (130) is how many pending orders or patient demographics are available on the cardiograph.
B Selected Inbox 	<ul style="list-style-type: none">▪ The currently selected Inbox. Touch the dropdown arrow button () to open the dropdown list and to select a different Inbox.▪ Select USB to view orders saved to the USB memory stick. Ensure that the USB memory stick is fully inserted into the USB connector (front right side of cardiograph).
C Patient Information Bar	<ul style="list-style-type: none">▪ Each column on the bar contains a category of patient information included in orders or patient demographics. Touch any column to sort the patient information for that column in ascending or in descending order. The selected column is indicated with an arrow ().▪ Touch the Select column header to select or to deselect all displayed entries.
D Selected Entry	<ul style="list-style-type: none">▪ Touch an entry to select it. A checkmark in the box underneath the Select column () indicates that an order is selected. The most recently selected entry is highlighted in blue.▪ Touch, press, and hold down on any field in an entry to view all of the patient information contained in an entry in a separate window. Touch the window when done to close it.
E 	<ul style="list-style-type: none">▪ Touch this button to download orders from the selected Inbox (B). <i>Note: this feature is not available with the ADT option.</i>

Worklist Screen, continued

The screenshot displays a medical worklist interface. At the top, there are tabs for 'Standard 12-Lead', 'Layout', and 'Settings'. Below these, a status bar shows 'ID:', 'Name:', a heart icon with '60', the time '11:22:19 AM', and the date '5/25/2010'. A green ECG waveform is visible in the background.




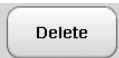
The main area contains a navigation bar with 'New Patient', 'Worklist 130', 'Find Patient', and 'Edit Patient ID'. Below this is a search field containing 'Outpatient_sur' and a 'Get Orders' button.

The central part of the screen is a table with the following columns: Select, Admit Date/Time, Alternate PatID, Visit ID, Patient ID, Last name, and First name. The table contains 11 rows of patient data. Row 2 is selected, indicated by a checkmark in the 'Select' column and a blue highlight.

At the bottom of the table, there are navigation arrows and a status bar showing 'Available: 70' and 'Selected: 1'. Below the status bar are three buttons: 'Delete', 'Select', and 'Cancel'. At the very bottom, there is a 'Stop' button and a progress indicator showing 'Downloading Patient Information, Please Wait...'. Callouts F, G, H, I, J, and K point to various UI elements.

Select	Admit Date/Time	Alternate PatID	Visit ID	Patient ID	Last name	First name
<input type="checkbox"/>	4/25/2010	5353305165	2943552844	5582025154	Aguilar	Theodore
<input checked="" type="checkbox"/>	4/25/2010	6222012287	6483256599	8165912176	Alvarado	Phyllis
<input type="checkbox"/>	4/26/2010	7173787789	2815457878	3734752157	Baldwin	Russell
<input type="checkbox"/>	4/25/2010	8411340633	3724919239	9613264511	Baldwin	Jeffery
<input type="checkbox"/>	4/24/2010	9111325056	5564597415	5599512414	Baldwin	Robin
<input type="checkbox"/>	4/25/2010	3585213236	7886769869	7528407175	Ballard	Cindy
<input type="checkbox"/>	4/26/2010	4830998232	4914584043	8075144441	Barber	Üyy
<input type="checkbox"/>	4/25/2010	3924516576	9337973169	4377997058	Benson	Pauline
<input type="checkbox"/>	4/24/2010	7527655369	2914373716	4890991483	Benson	Cindy
<input type="checkbox"/>	4/25/2010	4968585020	1075899809	9214667208	Benson	Leroy
<input type="checkbox"/>	4/25/2010	6387595689	6980225980	3862298736	Blair	Danny

Worklist Screen, continued

Name	Description
F Order or Patient Demographics Storage Information	<ul style="list-style-type: none"> Displays storage information including: New Appended or New: this is the number of orders or demographics most recently downloaded to the cardiograph. Available is the total number of additional orders or demographics that can be stored in the Worklist. Up to 200 total orders or demographics can be stored in the Worklist. Selected is the number of orders or demographics currently selected.
G Message Bar	<ul style="list-style-type: none"> Status messages appear here when actions are occurring
H 	<ul style="list-style-type: none"> Touch this button to stop the downloading of entries, or stop the deletion of entries.
I 	<ul style="list-style-type: none"> Touch this button to exit the Worklist screen.
J 	<ul style="list-style-type: none"> Touch this button to select the blue highlighted order or demographic in the Worklist and apply it to the current patient. <i>Note: only 1 order or demographic can be selected.</i>
K 	<ul style="list-style-type: none"> Touch this button to delete the selected orders or demographics (<input checked="" type="checkbox"/>) from the Worklist.

Finding Patient Information (continued on page 33)

Standard 12-Lead Layout Settings

ID: Name: 66 1:13:28 PM 5/25/2010

New Patient Worklist 11 Find Patient Edit Patient ID

Location: Worklist

Patient ID: _____

Last Name: _____

First Name: _____

Date of Birth: MM DD YYYY

Room: _____

Order number: _____




Select	Priority	Status	Patient ID	Last name	First name	Gender	Date of birth	Department	Room
<input type="checkbox"/>	1	STAT	D	N73528	FINK	JOHN	Male	1925-06-22	R3
<input type="checkbox"/>	2	STAT	D	N73528	FINK	JOHN	Male	1925-06-22	R3
<input type="checkbox"/>	3		D	\$\$\$300060	BONNEVILLE		Female	1948-07-29	
<input type="checkbox"/>	4		D	\$\$\$560565	FURMAN	JOHN	Female	1920-09-01	7309
<input type="checkbox"/>	5		D	\$\$\$457567	FROMBERG	JAMES	Male	1957-01-17	
<input type="checkbox"/>	6		D	\$\$\$15906	HALFERSTON	MARY	Female	1970-12-22	
<input type="checkbox"/>	7		D	\$\$\$107826	KENDALL	JAMES	Female	1923-05-04	

Found: 9
Listed: 9 Selected: 0

Find Select Download Cancel

Map ID ECG

Finding Patient Information

Name	Description
A Search Location	<ul style="list-style-type: none"> ▪ The current selected search location. ▪ Touch the dropdown arrow () to open the dropdown list of available search locations. Touch a location to select it.
B Search Fields	<ul style="list-style-type: none"> ▪ Enter patient information into these fields. The entered information will be used to search for specific patients. Press the <i>Tab</i> key (on keyboard) to move to the next field, or press <i>Tab</i> and <i>Shift</i> keys to move back to the previous field. ▪ To scan barcode data into a search field, place the cursor in the field. Scan the barcode data. ▪ Enter * into a field to search using a wildcard (see box below).
C Order Information Bar	<ul style="list-style-type: none"> ▪ Each column on the bar contains a category of patient information. Touch any column to sort the patient information for that column in ascending or in descending order. The selected column is indicated with an arrow (). ▪ Touch the Select column header to select or to deselect all displayed entries.
D Selectable Search Field	<ul style="list-style-type: none"> ▪ Touch the dropdown arrow () to open the dropdown list of additional search fields. Touch a search field to select it. <i>Note: The selected search field must be enabled as part of your patient management system.</i> ▪ The available search fields include: Order Number, Account Number, Gender, Unit Number, and Priority (STAT). These search fields can be used to refine a search if too many entries are returned from an initial search. ▪ Enter * into a field to search using a wildcard (see box below).

Wildcard Search

To search for an order or demographic using a wildcard, enter * into the field. For example, to search for a patient name that may be entered as *Jane Doe* or *Janey Doe* in the management system, enter the last name (**Doe**), and then enter **Jan*** into the first name field.

Finding Patient Information, continued

Standard 12-Lead Layout Settings

ID: Name: 66 1:13:28 PM 5/25/2010

New Patient Worklist 11 **Find Patient** Edit Patient ID

Location:

Patient ID:

Last Name:

First Name:

Date of Birth: MM DD YYYY

Room:

Order number:

Select	Priority	Status	Patient ID	Last name	First name	Gender	Date of birth	Department	Room
<input type="checkbox"/>	1	STAT	D	N73528	FINK	JOHN	Male	1925-06-22	R3
<input type="checkbox"/>	2	STAT	D	N73528	FINK	JOHN	Male	1925-06-22	R3
<input type="checkbox"/>	3		D	\$\$\$300060	BONNEVILLE		Female	1948-07-29	
<input type="checkbox"/>	4		D	\$\$\$560565	FURMAN	JOHN	Female	1920-09-01	7309
<input type="checkbox"/>	5		D	\$\$\$457567	FROMBERG	JAMES	Male	1957-01-17	
<input type="checkbox"/>	6		D	\$\$\$15906	HALFERSTON	MARY	Female	1970-12-22	
<input type="checkbox"/>	7		D	\$\$\$107826	KENDALL	JAMES	Female	1923-05-04	

Found: 9 Listed: 9 Selected: 0

Find **Select** **Download** **Cancel**

Map ID ECG

E

F





G

H

I

J

Finding Patient Information, continued

Name	Description
E Patient Search Information	<ul style="list-style-type: none"> Displays information about search results. Found is the number of total entries that match the entered search information. Listed is the number of entries displayed on the screen; a maximum of 200 entries can be displayed. Selected is the number of entries currently selected.
F 	<ul style="list-style-type: none"> Touch this button to search for patients using the entered search information.
G 	<ul style="list-style-type: none"> Touch this button to select the blue highlighted entry for the current patient session. <i>Note: only 1 entry can be selected.</i>
H 	<ul style="list-style-type: none"> Touch this button to download the selected patient(s) to the Worklist so that they may be selected for future patient sessions.
I 	<ul style="list-style-type: none"> Touch this button to exit the Search screen.
J Patient Search Results	<ul style="list-style-type: none"> This area displays patients that match the entered search information.

Transferring ECGs

Archive Screen (continued on page 37)

The Archive screen is used to transfer completed ECGs (as either a PDF or XML file) to TraceMaster or other remote system, or to a USB memory stick. It is also used to delete ECGs, to print a list of saved ECGs, and to download ECGs from a TraceMaster to the cardiograph (if supported).

A **B** **C**

Selected Archive: Main Archive Transfer Destination: USB memory stick Transfer Option: Do not delete after transfer

D

Select	ECG Date/Time	Last Xmt. Date/Time	Transfer dest.	Patient ID	Last name	Age	Date of birth	Gender
<input type="checkbox"/>	10/13/2008 9:54:57 PM	---					---	Unkn
<input type="checkbox"/>	9/7/2008 9:53:22 PM	---					---	Unkn
<input type="checkbox"/>	9/7/2008 8:23:52 PM	---		66666	Patient	66 Years	---	Male
<input type="checkbox"/>	9/1/2008 5:06:06 PM	---					---	Unkn
<input type="checkbox"/>	8/30/2008 8:59:50 PM	10/27/2008 8:20:49 PM	Don`s server	34567	sdfg		5/3/1956	Femal
<input type="checkbox"/>	8/30/2008 8:58:22 PM	---		1234	Doe	36 Years	---	Femal
<input type="checkbox"/>	8/18/2008 5:29:41 PM	---					---	Unkn
<input type="checkbox"/>	8/5/2008 10:08:29 PM	---					---	Unkn
<input checked="" type="checkbox"/>	8/5/2008 10:03:01 PM	6/2/2008 6:17:17 PM	USB Drive	9999	Stollar	2 Years	---	Femal






E

Stored ECGs: 9 ID Complete
 Available ECGs: 191 ID Incomplete
 Selected ECGs: 1

Print List Delete Transfer

Map ID ECG Main

Archive Screen

Name	Description
A Selected Archive List	<ul style="list-style-type: none">▪ The currently selected Archive. Touch the dropdown arrow button () to open the dropdown list of available Archives. Touch an Archive to select it.
B Transfer Destination	<ul style="list-style-type: none">▪ The currently selected ECG transfer destination. Touch the dropdown arrow button () to open the dropdown list of available transfer destinations. Touch a transfer destination to select it.
C Transfer Delete Option	<ul style="list-style-type: none">▪ The currently selected transfer delete option for ECGs. Touch the dropdown arrow button () to open the dropdown list of available options. Touch an option to select it.▪ <i>Note: Once ECGs are deleted from the Archive they cannot be retrieved.</i>
D ECG Information Bar	<ul style="list-style-type: none">▪ Each column on the bar contains a category of patient information associated with the ECGs. Touch any column to sort the patient information for that column in ascending or in descending order based on the column heading. The selected column is indicated with an arrow (). Touch the Select column header to select or to deselect all ECGs displayed in the list.
E Selected ECGs	<ul style="list-style-type: none">▪ A checkmark in the box underneath the Select column () indicates that an ECG is selected. A selected ECG is highlighted in blue. Touch the Select column header to select or to deselect all ECGs displayed in the list.▪ Touch, press, and hold down on any field in a selected ECG to view all of the information associated with the ECG in a separate window. Touch the window when done to close it.

Archive Screen, continued

Selected Archive: Transfer Destination: Transfer Option:




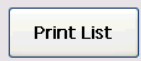


Select	ECG Date/Time	Last Xmt. Date/Time	Transfer dest.	Patient ID	Last name	Age	Date of birth	Gender
<input type="checkbox"/>	10/13/2008 9:54:57 PM	-----:--					----	Unknc
<input type="checkbox"/>	9/7/2008 9:53:22 PM	-----:--					----	Unknc
<input type="checkbox"/>	9/7/2008 8:23:52 PM	-----:--		66666	Patient	66 Years	----	Male
<input type="checkbox"/>	9/1/2008 5:06:06 PM	-----:--					----	Unknc
<input type="checkbox"/>	8/30/2008 8:59:50 PM	10/27/2008 8:20:49 PM	Don's server	34567	sdfg		5/3/1956	Femal
<input type="checkbox"/>	8/30/2008 8:58:22 PM	-----:--		1234	Doe	36 Years	----	Femal
<input type="checkbox"/>	8/18/2008 5:29:41 PM	-----:--					----	Unknc
<input type="checkbox"/>	8/5/2008 10:08:29 PM	-----:--					----	Unknc
<input checked="" type="checkbox"/>	9/5/2008 10:03:01 PM	6/2/2008 6:17:17 PM	USB Drive	9999	Stollar	2 Years	----	Femal

Stored ECGs: 9
 Available ECGs: 191
 Selected ECGs: 1

ID Complete
 ID Incomplete

F — G — H — I — J — K — L — M

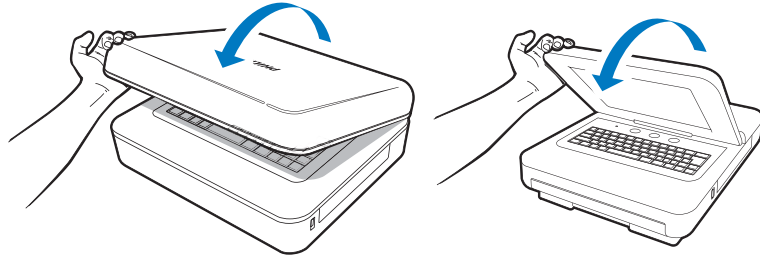
Archive Screen, continued

Name	Description
F Archive Storage Information	<ul style="list-style-type: none"> Displays ECG storage information for the selected Archive. Stored ECGs is total number of ECGs stored in the selected Archive. Available ECGs is the number of additional ECGs that can be saved to the selected Archive before ECGs will need to be deleted to free up space. Selected ECGs is the number of currently selected ECGs (highlighted in blue).
G 	<ul style="list-style-type: none"> Touch to enter missing patient information for the selected ECG (highlighted in blue). <i>Note: patient information may only be entered for one ECG at a time. This feature is not used to enter patient information for a new patient.</i>
H 	<ul style="list-style-type: none"> Touch to view the selected ECG (highlighted in blue) on the Preview screen. From the Preview screen, the ECG may be viewed and printed in a variety of different report formats.
I Complete ID Information	<ul style="list-style-type: none"> ECGs displayed in the list that are highlighted in white have complete patient information and may be transferred. ECGs displayed in the list that are highlighted in orange are missing required patient information and cannot be transferred. Touch the ID button to complete the required patient information fields.
J 	<ul style="list-style-type: none"> Touch to exit the Archive and to return to the Main screen.
K 	<ul style="list-style-type: none"> Touch to print a list of the ECGs saved to the selected Archive.
L 	<ul style="list-style-type: none"> Touch to delete selected ECGs (<input checked="" type="checkbox"/>).
M 	<ul style="list-style-type: none"> Touch to transfer selected ECGs (<input checked="" type="checkbox"/>). <i>Note: only ECGs with complete required patient information can be transferred. Touch the ID button to enter missing patient information that is required by your facility.</i>

Using the Cardiograph and Cart

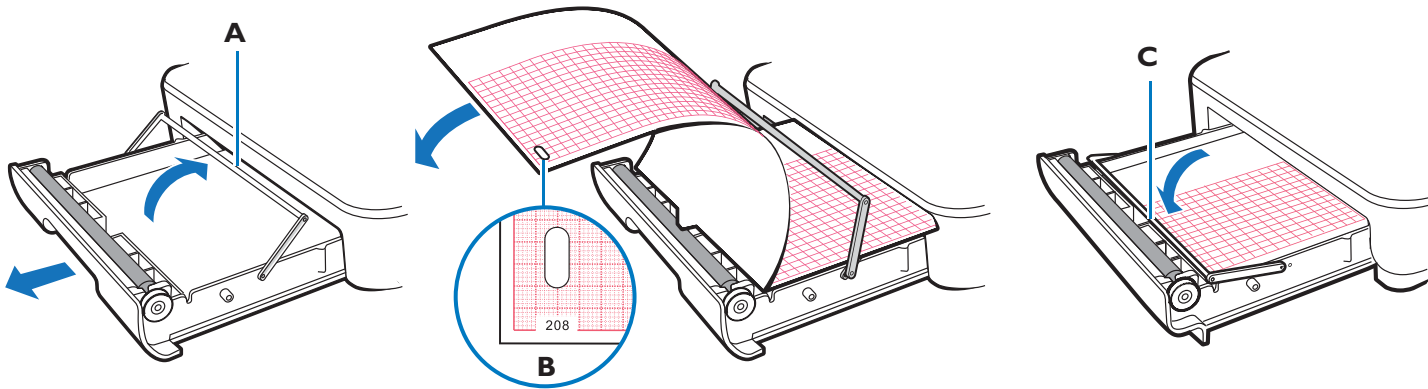
Protecting Patient Data (TC70/TC50 only)

To protect patient privacy, close display to put cardiograph into Standby. Patient information is not visible in open environments. All patient information is saved. Lift the display to return the cardiograph to active use.



Loading Paper

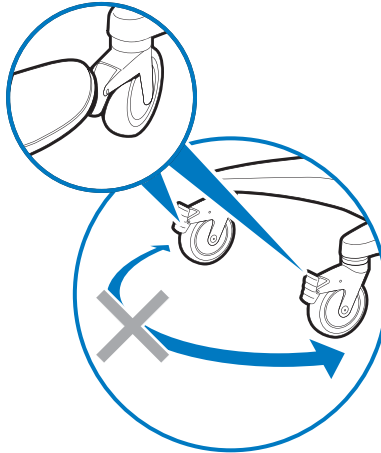
- 1 Open paper drawer and lift up the hold down bar (A).
- 2 Load paper so that alignment hole is at lower left (B).
- 3 Lower hold-down bar (C).



Using the Cart Wheel Positioners

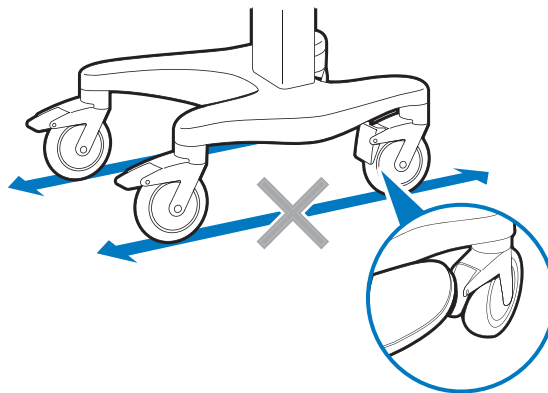
- 1 Align the front wheels so they are straight.
- 2 Step down on both wheel positioners.
- 3 Move cart forward until the wheels “lock.”

Cart will move forward or backward in a straight line and will maneuver better in tight spaces.



Using the Cart Brake

Step on gray rear wheel brake to lock the cart wheels. The cart will not move. Step on the wheel brake again to unlock the wheels.



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