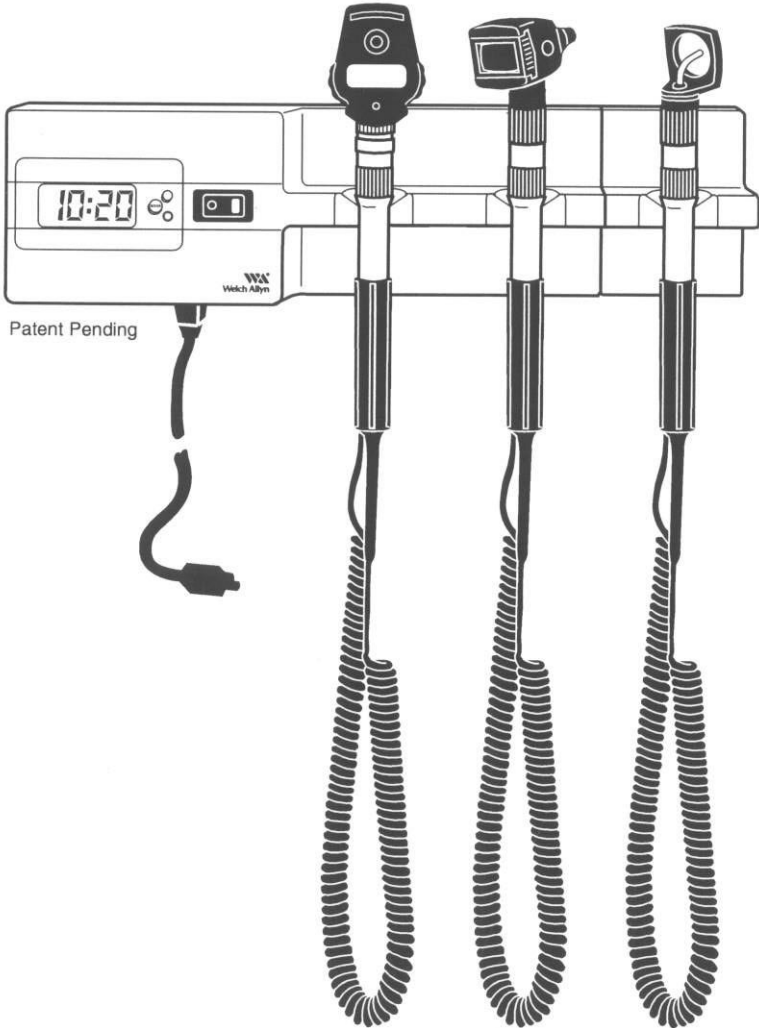


# Welch Allyn<sup>®</sup> 767 Diagnostic System

3.5v 767 Wall Transformer



Listed to:  
UL 544  
CSA C22.2 No. 125

  
**Welch Allyn**








Thank you for purchasing the Welch Allyn 3.5v 767 Wall Transformer. This manual is meant to provide product specifications and instructions for usage and maintenance. The instructions for use should be followed to ensure accurate and reliable service.

The 3.5v 767 Wall Transformer carries a lifetime warranty against all manufacturing defects. **The coiled cords carry a special 10-year warranty against breakage during normal usage.**

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## Warnings

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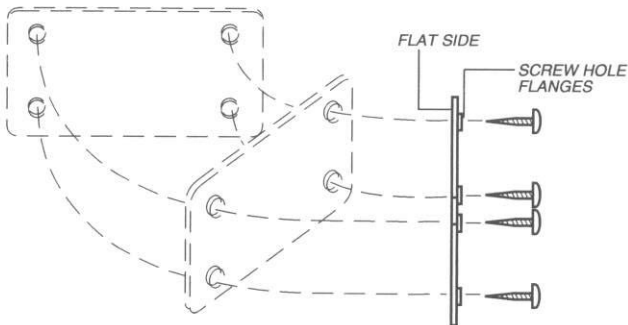
-  USE HOSPITAL-GRADE POWER INLET CORD ONLY.
-  REPLACE CLOCK BATTERY AS INSTRUCTED WITH Maxell 43 OR EQUIVALENT BATTERY.
-  GREEN PILOT LIGHT INDICATES THAT THE POWER MAINS IS CONNECTED TO APPLIANCE.
-  USE THIRD HANDLE MODULE (MODEL #76730) WITH WELCH ALLYN 3.5v 767 WALL TRANSFORMER ONLY.
-  SERVICE TO BE PERFORMED BY AUTHORIZED WELCH ALLYN REPAIR DEPARTMENT ONLY.
-  FUSE REPLACEMENT — TYPE T250, 250v SLOW BLOW 0.25 AMPERE (SHOULD BE REPLACED ONLY BY AUTHORIZED WELCH ALLYN REPAIR DEPARTMENT).
-  CAUTION: DISCONNECT THE SYSTEM FROM THE MAINS SUPPLY BEFORE CONNECTING THE THIRD HANDLE (MODEL #76730).

## Avertissements

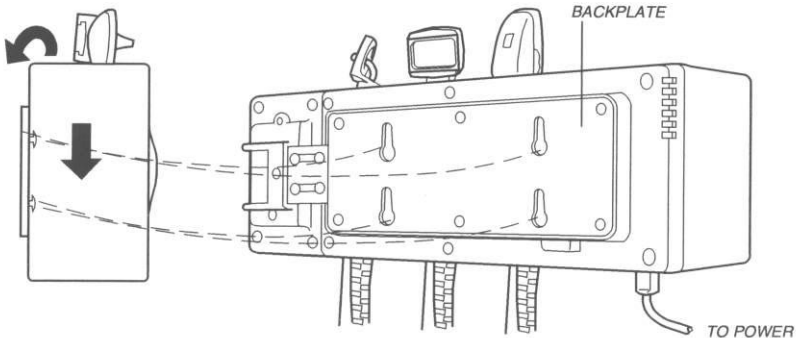
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-  N'UTILISER QUE LE CORDON D'ALIMENTATION DE QUALITE HOPITAUX.
-  REMPLACER LA BATTERIE DE L'HORLOGE SELON LES INSTRUCTIONS PAR UNE BATTERIE Maxell 43 OU EQUIVALENT.
-  LE VOYANT VERT INDIQUE QUE L'INSTRUMENT EST BRANCHE SUR L'ALIMENTATION SECTEUR.
-  N'UTILISER LE MODULE DE LA TROISIEME POIGNEE (MODELE NO. 6730) QU'AVEC LE TRANSFORMATEUR MURAL WELCH ALLYN 767 DE 3,5v.
-  ATTENTION : NE CONFIER LES REPARATIONS QU'AU DEPARTEMENT DE REPARATION AGREE WELCH ALLYN.
-  REMPLACEMENT DU FUSIBLE — TYPE T250, 250v, A ACTION RETARDEE 0,25 AMPERES (NE LE FAIRE REMPLACER QUE PAR LE DEPARTEMENT DE REPARATION AGREE WELCH ALLYN).
-  ATTENTION : DEBRANCHER LE SYSTEME DE L'ALIMENTATION SECTEUR AVANT DE RACCORDER LA TROISIEME POIGNEE (MODELE NO. 76730).

# Mounting Instructions

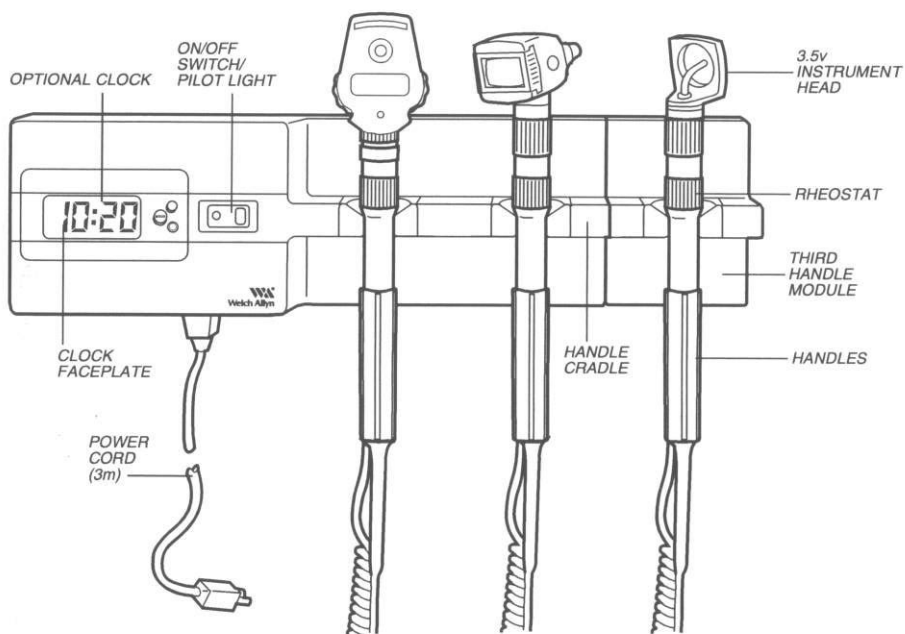


Fasten mounting plate to the wall with enclosed screws, making sure that the screw hole flanges face away from the wall and the smooth surface of the mounting plate is flush with the wall. Depending on the mounting surface, alternative screws may be needed. With the flat side of the plate on the mounting surface, level the plate as shown. Note that the plate should be mounted so that the widest portion of the plate is horizontal (as shown). When mounting screws are tightened, there will be a gap between the screw head and surface of the plate.



Mount the unit by fitting the round holes in the backplate over screw heads on the wall mounting plate, then push downward on the unit to secure it to the wall. This slides the tapered slots in the backplate over the shoulders in the mounting plate. **Plug into 108-125v, 60 Hz AC and unit is ready for use.**

# Operation



**Handles** Handles will accept any 3.5v Welch Allyn instrument head.

**Rheostat** Located on each handle. Turn clockwise to increase light output, turn counterclockwise to decrease light output.

**Handle cradle** Instrument lights automatically when handle is lifted from the cradle engaging the OptiSense™ Optical Sensor. When handle is returned to the cradle the OptiSense™ Optical Sensor is disengaged automatically turning the instrument off.

**ON-OFF switch/pilot light** Indicates the transformer is on (power mains is applied).

**Clock** Option on this model. Refer to page 4 for operating instructions.

**Third Handle Module** Option on this model. Refer to page 5 for mounting and operating instructions.

**Power cord** Can be plugged into any 108-125v., 60 Hz outlet.

# Operating Instructions

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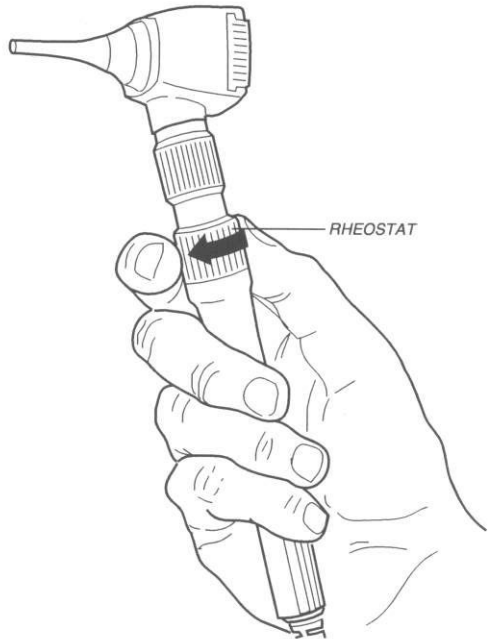
## Handles will accept any Welch Allyn 3.5v instrument head.

After plugging power cord into any 108-125v, 60 Hz outlet, turn power switch to ON position, illuminating the pilot light.

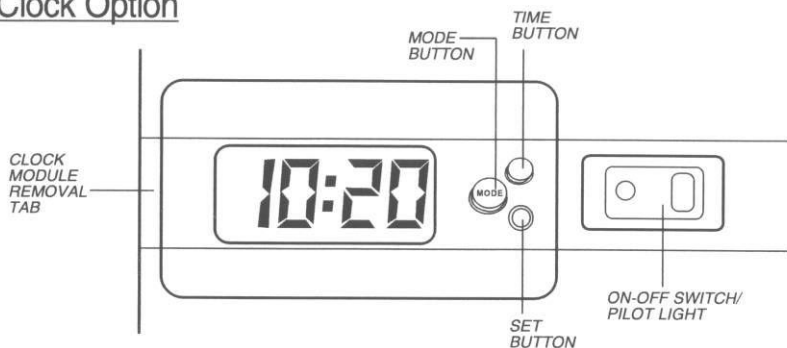
With power switch in ON position, instruments will automatically light when handles are lifted from the handle cradle and the OptiSense™ Optical Sensor is engaged. Adjust rheostat on handle until desired light output is obtained. Turning rheostat clockwise increases light output, counterclockwise decreases light output. Note: Rheostat does not turn instrument completely off. Returning handle to cradle will disengage the OptiSense™ Optical Sensor and turn the instrument completely off.

A built-in, automatic voltage regulator provides maximum illumination and lamp life.

Instruments will automatically turn off when the handle is placed back in the cradle. The Welch Allyn 767 Wall Transformer can be turned off by simply turning the power switch to the OFF position. Pilot light alone draws current when instruments are not in use. When unit is not in use for more than a few hours, turn power switch to OFF position to ensure longer operating life. Unit can remain plugged in permanently. The clock is powered by a battery and will keep time when power switch is turned off.



## Clock Option



**Mode button** Use this button to engage seconds mode. Press once to engage and a second time to start the seconds.

**Time button** Use this button to return from seconds mode to hour/minute by pressing once. Also used for setting time.

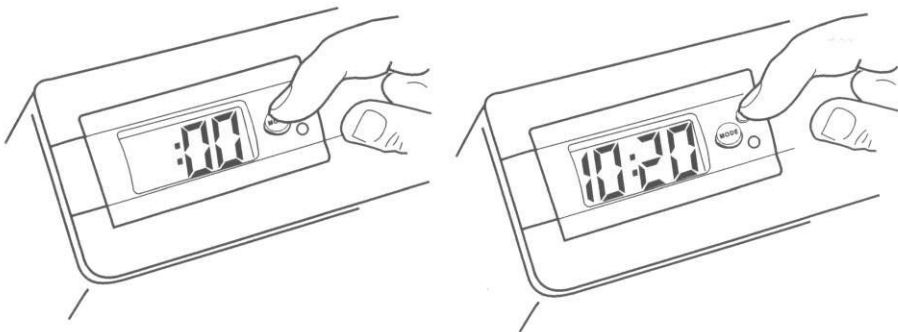
**Set button** Use this button to change time.

**Clock module removal tab** Pull forward to remove clock module and gain access for changing battery.

The clock, powered by a battery, operates separately from the main power supply. For this reason the time will be displayed when the main unit is turned OFF or unplugged from the wall power socket.

### Engage Seconds Mode:

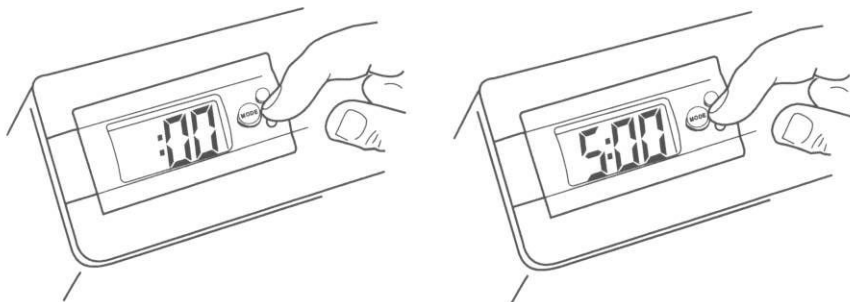
Press Mode Button to engage. Press Mode button a second time to begin seconds mode. Press the Time button to return the Hour/Minute display.



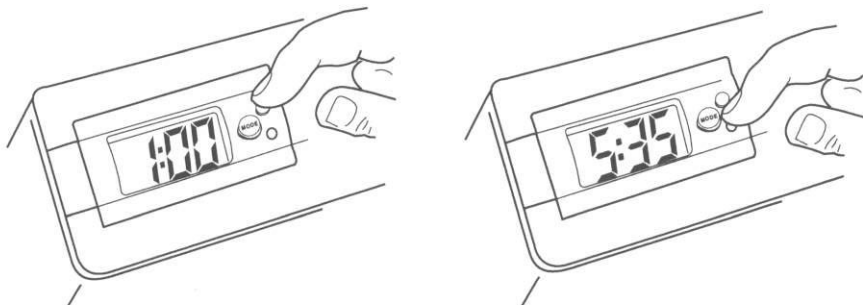
### Change Time:

The following steps should be followed when resetting the time:

1. Press Set button until mode needing change appears (either hour or minute).



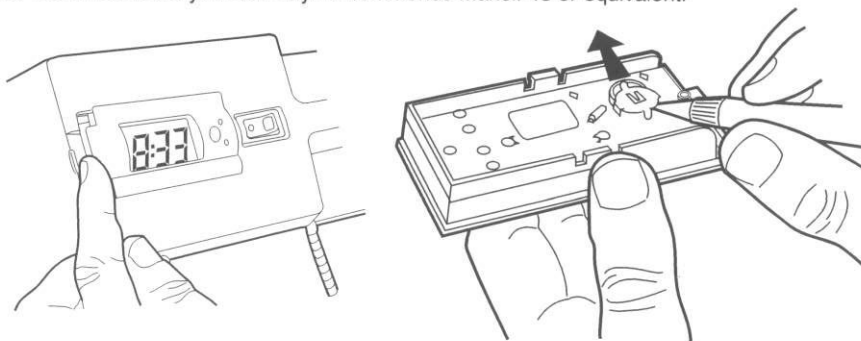
2. Press Time button until desired setting appears.
3. If another mode needs changing, press Set button until desired mode appears and follow step 2. If complete after step 2, then move to step 4.
4. Press Set button until hour and minutes are displayed.



5. Press Time button once to start clock. The ":" symbol will blink when clock is operating.

### Change Clock Battery:

1. Remove clock module by prying the clock faceplate from unit housing.
2. Remove battery by pushing battery out of retaining sleeve. For best results use a pen or pencil to pry against the faceplate housing wall.
3. Insert new battery. Welch Allyn recommends Maxell 43 or equivalent.





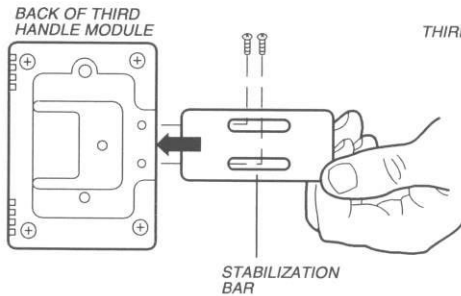
# Mounting the Third Handle Module

A Phillips screwdriver is needed to connect the Third Handle Module.

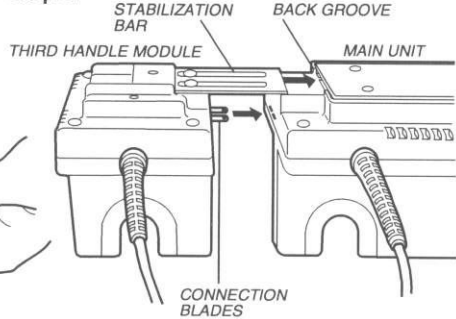
## Mounting the Third Handle Module:

1. Disconnect main unit power supply.
2. Remove main unit from the wall by lifting up and out (instructions found on page one of this manual).
3. Attach stabilization bar to back of Third Handle Module (as shown using two enclosed screws).

### Step 3:

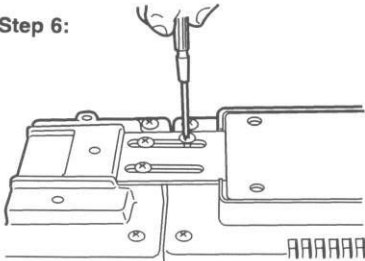


### Step 5:



4. Line up the metal stabilization bar with the groove on the back of the main unit. Also, line up the connecting blades with the blade openings on the side of the main unit housing.
5. Slide Third Handle Module into the main unit until firmly in place.

### Step 6:



6. Secure Third Handle Module in place (as shown using two enclosed screws).
7. Place unit on the wall following the instructions found on page 1 of this manual and reconnect main unit power supply.
8. Place instrument on third handle and lift from cradle. This will test for correct attachment.

# Maintenance

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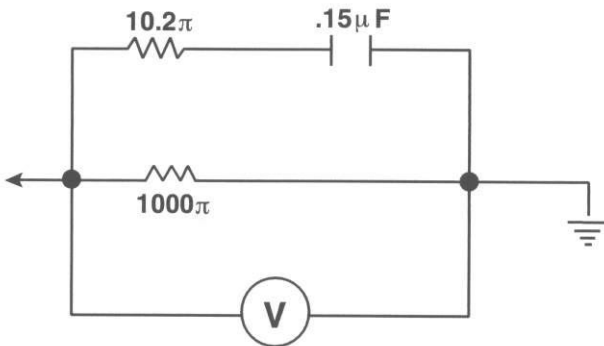
Like any other piece of electrical equipment, periodic electrical inspections should be performed by qualified personnel. Welch Allyn recommends inspections every six months, more often if used under adverse conditions.

## Leakage Current:

The leakage current measured from either the handles to ground should be less than 100 microamps (equivalent to 95mv in the following circuit) when unit is plugged into a properly grounded outlet.

## Dielectric Breakdown:

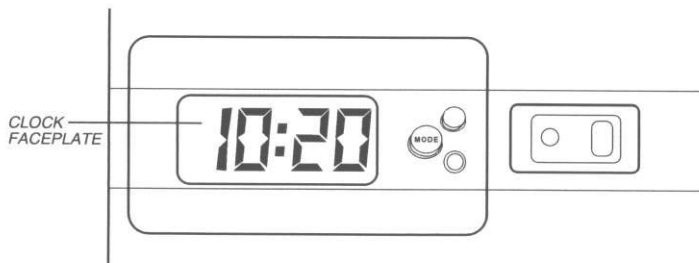
Isolation between power pins and backplate (dead accessible metal) should withstand 1500VAC for one second without exceeding 12.5 mA of trip current.



# Cleaning and Repair

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Do *not* sterilize. May be cleaned by wiping with a dry cloth. Avoid using abrasive cleaning materials on clock faceplate.



## REPAIR:

For all repairs, send unit to: Technical Service Department, Welch Allyn, Inc., 4341 State Street Road, Skaneateles Falls, New York 13153, or in the U.S.A. call 1-800-535-6663. Fax: 315-685-4653 (Technical Services).

In Canada call: 1-800-561-8797. Fax: 905-890-0008.

# Specifications

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- Model No. **76720** 3.5v 767 Wall Transformer  
(two-handle model with clock, instrument heads not included),  
**76710** 3.5v 767 Wall Transformer  
(two-handle model without clock, instrument heads not included),  
**76730** 3.5v 767 Wall Transformer  
Third Handle Module (instrument heads not included).

Power Cord:

**Input:** 108-125v., 60Hz.

**Output: Model Nos. 76720, 76710 — 3.00-3.90v, .700-1.05A at 120 VAC**

Supplied with two coiled cords, two handles, and power cord.

Leakage current is less than 100 microamps from any exposed metal part.

**Weight:** Weight with mounting plate is 4.5 pounds (2.04kg). (NOTE: This is weight without instrument heads.)

**Dimensions:** H=4" (10.16cm)      D=4" (10.16cm)      W=12" (30.48cm)



Listed to UL544



Certified to CSA 22.2 No.125