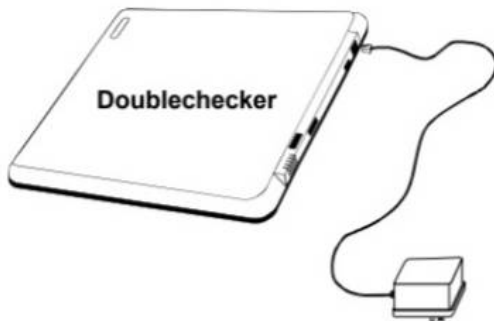


## Doublechecker

### Installation Guide



**US Transformer**  
(International transformer  
shown below)

ZB750XP (58/60/68kHz with Pad)	0100-0089-04
ZB749XP (58/60/68kHz w/o Pad)	0100-0300-04
ZB950XP (58/60/68kHz with Pad)	0100-0089-05
ZB949XP (58/60/68kHz w/o Pad)	0100-0300-05
Phase Adapter Kit	0351-0240-01

## Introduction

Sensormatic offers several Doublechecker models to address various application requirements. Major differences among models are as follows:

- **Frequency coverage.** Different models are available to detect the following label frequencies:

58, 60, and 68kHz (50 or 60Hz power).

Printed circuit board (PCB) P/N 0301-0366-03 is used to provide these frequency combinations.

- **Power supply.** Different models are available with US-only (domestic) or Universal (worldwide) power supplies.
- **Deactivation capability.** Models are available with or without an attached deactivation pad.

This guide provides installation instructions for all currently available Doublechecker models.

## Installation Procedure

Doublechecker installation involves four tasks:

1. Setting the label frequency and line power frequency,
2. Placing the unit on the counter,
3. Connecting power, and
4. Testing to confirm that it is operating properly.

## Select the Label and Line Power Frequency

Depending on the Doublechecker model ordered, you will have one of three label frequency and one of two line frequency configurations provided on one PCB.

- Label frequency can be set to 58, 60, or 68kHz.
- AC power frequency can be set to 50 or 60Hz.
- Label and AC power frequency selection is made via three jumpers and an 8-position switch block on the PCB.
- Jumpers and switch are accessible by removing a door on the underside of the unit.
- Volume can be set to maximum via a jumper on the PCB.

## Set Label and Line Frequency

1. Turn over the unit so the base is facing upward.
2. Remove the screw that holds the access cover in place.
3. Lift the cover off the base and set it and the screw aside.
4. Locate S1 on SW1 and jumpers JW8, JW9, JW10, and JW11 inside the opening (Figure 1). Set them according to Table 1 and Table 2.
5. Re-position the cover over the opening and replace the screw removed earlier.
6. Turn over the unit so the base is facing downward.

Figure 1. Setting Frequency

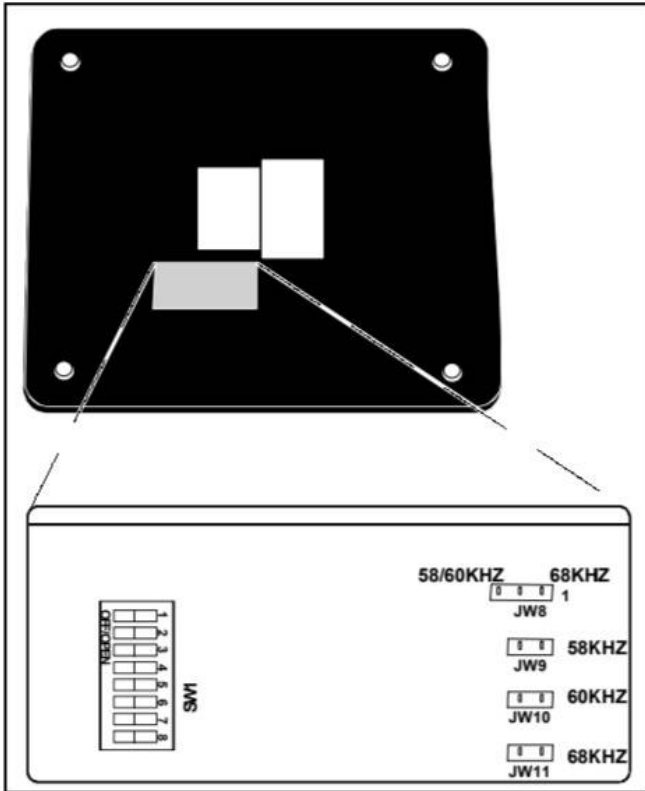


Table 1. SW1 settings

Frequency Options	S1	S2	S3	S4	S5	S6	S7	S8
60Hz/58KHz	ON	OFF	ON	OFF	OFF	ON	OFF	ON
60Hz/60KHz	ON	OFF	ON	ON	OFF	ON	OFF	ON
60Hz/68KHz	ON	OFF	ON	ON	ON	ON	OFF	ON
50Hz/58KHz	OFF	ON	ON	OFF	OFF	OFF	ON	ON
50Hz/60KHz	OFF	ON	ON	ON	OFF	OFF	ON	ON
50Hz/68KHz	OFF	ON	ON	OFF	OFF	ON	ON	ON

Table 2. Jumper settings

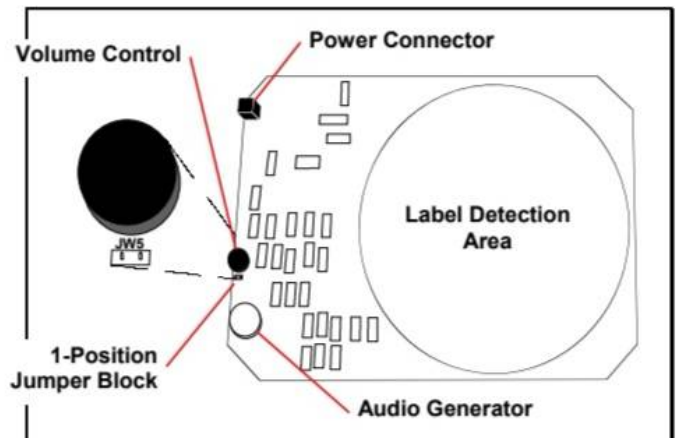
Frequency Options	JW8	JW9	JW10	JW11
60Hz/58KHz	2-3	CLS	OPN	OPN
60Hz/60KHz	2-3	OPN	CLS	OPN
60Hz/68KHz	1-2	OPN	OPN	CLS
50Hz/58KHz	2-3	CLS	OPN	OPN
50Hz/60KHz	2-3	OPN	CLS	OPN
50Hz/68KHz	1-2	OPN	OPN	CLS

## Set Volume to Maximum (Optional)

PCB P/N 0301-0366-03 has a jumper for setting the unit to maximum volume, if desired. This setting is made as follows:

1. Turn over the unit so the base is facing upward.
2. Remove the screws from each corner and the center of the base and lift it off the unit to expose the PCB. Set the base and screws aside.
3. Locate Jumper Block JW5, next to the volume control, as shown in Figure 2. Set it closed.
4. Re-position the base on the unit and replace the five screws removed earlier.
5. Turn over the unit so the base is facing downward.

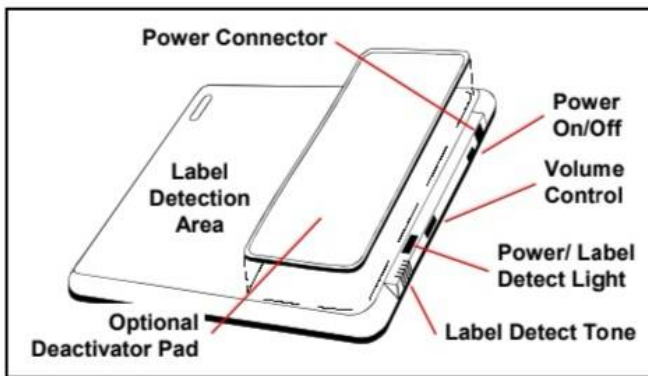
Figure 2. Setting Maximum Volume



## Position the Unit

1. Review Figure 3 to become acquainted with Doublechecker's features.
2. Place the Doublechecker on the countertop. Make sure its power switch is off.
3. If a deactivation pad is included with the unit, attach it to the Doublechecker as shown in Figure 3, using the provided adhesive pads.
4. DO NOT place the Doublechecker:
  - Within .5m (1.5ft) of computer monitors, video displays, or television receivers.
  - Within 1m (3ft) of Ultra•Max pedestals spaced 1.8m (6ft) apart, or within 2.1m (7ft) of pedestals spaced 2.7m (9ft) apart.
  - Within .3m (1ft) of cash registers or credit card verifiers.

Figure 3. Attaching the Optional Deactivator Pad

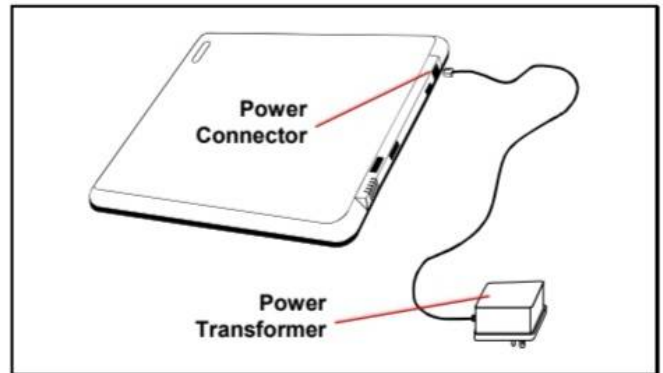


## Attach Power

### Power Transformer (US only)

1. Plug the transformer's cable connector into the Doublechecker's power input.
2. Plug the transformer into an AC receptacle.

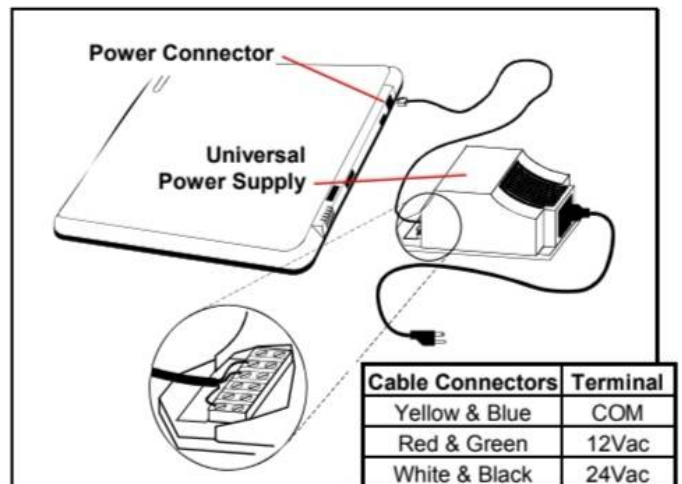
Figure 4. Attaching a Power Transformer



### Universal Power Supply (International)

1. Connect the 6-conductor cable (0650-0867-02) to the Universal Power Supply as shown in Figure 5.

Figure 5. Attaching a Universal Power Supply

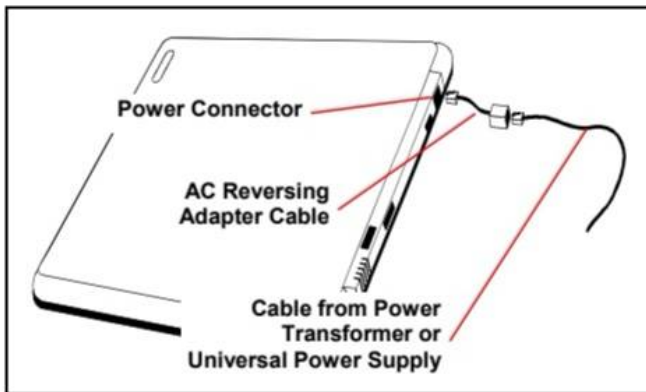


2. If the unit comes with a separate power cord, plug it into the Universal Power Supply's power connector.
3. Mount the power supply under the retail counter in a dry location near an AC power receptacle.
4. Plug the 6-conductor cable's connector into the Doublechecker's power input.
5. Plug the power cord into an AC receptacle.

## Test the Unit

1. Turn on the Doublechecker. The lamp should light.
2. If the Doublechecker false alarms, look for labels within .3m (1ft) of the Doublechecker.
3. If the Doublechecker does not respond to active labels, turn up the volume control.
4. If the Doublechecker does not respond to active labels, connect the AC reversing adapter cable (6003-0028-01) between the 6-conductor cable and Doublechecker's power input. See Figure 6.

Figure 6. Attaching the AC Reversing Adapter Cable



## If you need assistance, call...

### For the United States:

Sensormatic Solutions support line:  
1-800-543-9740  
Email: [easts@sensormatic.com](mailto:easts@sensormatic.com)

### For Europe:

Technical Support Centre, Echt, The Netherlands  
+800 CALL TYCO (+800 22 55 8926)  
From the UK: 08701 238 787  
[tspeuropesupport@tycoint.com](mailto:tspeuropesupport@tycoint.com)

## Declarations

### Regulatory Compliance

Emissions.....	47 CFR, Part 15
	EN 61000-3-2
	EN 61000-3-3
	EN 300 330
	EN 300 683
Safety (Reg ID: ZB150XP) .....	EN 60950-1
	EN 50364
	UL 1950
	UL 1037



**FCC COMPLIANCE:** This equipment complies with Part 15 of the FCC rules for intentional radiators and Class A digital devices when installed and used in accordance with the instruction manual. Following these rules provides reasonable protection against harmful interference from equipment operated in a commercial area. This equipment should not be installed in a residential area as it can radiate radio frequency energy that could interfere with radio communications, a situation the user would have to fix at their own expense.

**EQUIPMENT MODIFICATION CAUTION:** Equipment changes or modifications not expressly approved by Sensormatic Electronics Corporation, the party responsible for FCC compliance, could void the user's authority to operate the equipment and could create a hazardous condition.

CSD/07/2006