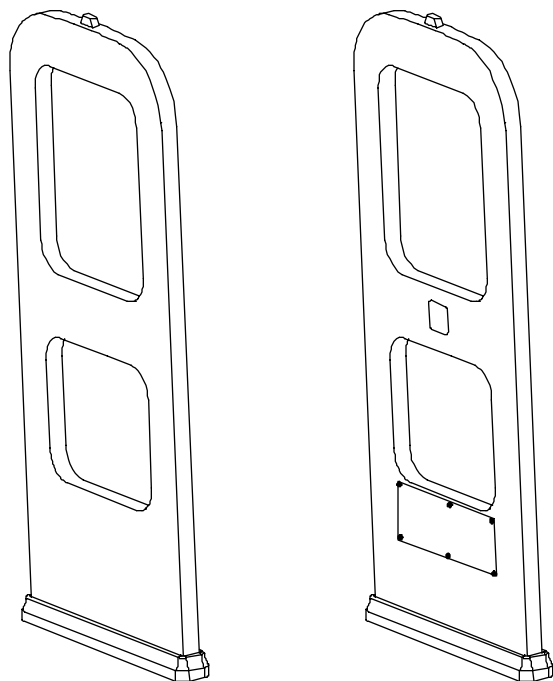


## ADS Pro•Max Pedestals (Alpha I Version)



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**PRELIMINARY 01/05/00**

### About this Guide

This installation guide explains how to install ADS Pro•Max™ pedestals. Other related documents are:

- Planning Guide, 8000-2693-01
- Installation Guide, ADS 216 Power Pack, 8000-2693-02
- Setup and Service Guide, 8000-2693-xx
- Reference Guide, 8000-2693-xx

**Note:** Because the placement of antenna components can vary depending on architectural and customer requirements, your Sensormatic representative will supply this information separately.

**If you need assistance...**

Call Sensormatic Customer Support at:

**1-800-543-9740**

### Limitation of Warranty

Any deviations from the materials or procedures specified herein shall void Sensormatic's warranty with the owner/buyer. In no event shall Sensormatic be liable for loss or damage caused by the use of materials or procedures that do not meet Sensormatic's specifications.

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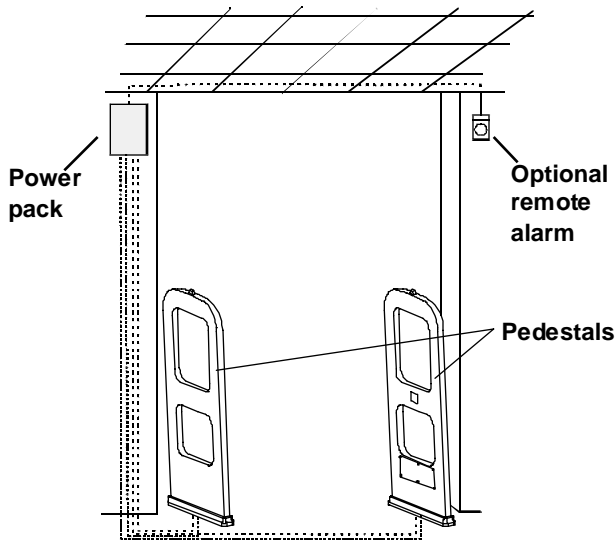
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## Pedestal Overview

ADS Pro•Max pedestals are part of an Ultra•Max<sup>®</sup> security label detector that deters theft. One or two ADS Pro•Max pedestals are attached to a power pack. Pedestals are positioned opposite each other at an exit.

**CAUTION:** Space pedestals no more than 2.4m (9') apart.

Figure 1. ADS Pro•Max Detector



## Component Part Numbers

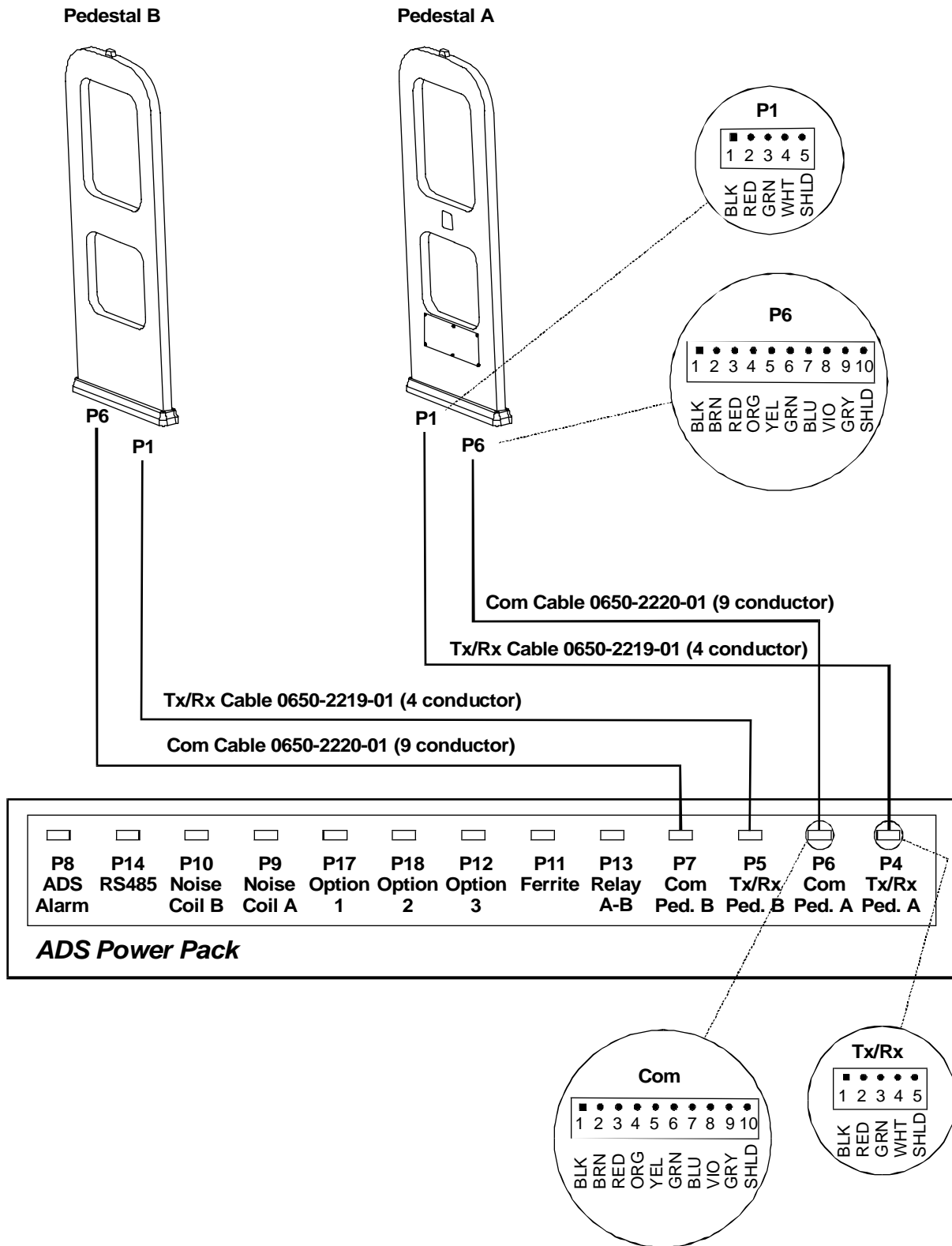
ADS Pro•Max Pedestal System, Single –  
xxxxxxx

- One ADS Pro•Max Pedestal (0300-2302-01)
- One Power Pack (ZEADS216)
- One Power Cord Option (0351-0547-xx)

ADS Pro•Max Pedestal System, Dual –  
xxxxxxx

- Two ADS Pro•Max Pedestals (0300-2302-01)
- One Power Pack (ZEADS216)
- One Power Cord Option (0351-0547-xx)

Figure 2. Wiring diagram



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## Installation Requirements

### Verifying Equipment and Unpacking

- ❑ Verify that all equipment has arrived. Make sure the system configuration is the right one for the installation site.
- ❑ Unpack major components in a back room. At the install site, lay out parts in the order you will need them. Do not clutter the aisle or cause a trip hazard.

### Installer/Contractor

- ❑ Shall have electrical work comply with the latest national electrical code, national fire code, and all applicable local codes and ordinances.
- ❑ Shall coordinate all work with other trades to avoid interference.
- ❑ Shall verify existing site conditions and coordinate with the owner's representative and appropriate utilities as required.
- ❑ Shall obtain copies of all related plans, specifications, shop drawings and addenda to schedule and coordinate related work.
- ❑ Shall thoroughly review the project to ensure that all work meets or exceeds the above requirements. Any alleged discrepancies shall be brought to the attention of Sensormatic Electronics.

**WARNING!**

Do not install this product in hazardous areas where highly combustible or explosive products are stored or used.

### Antenna Placement and Cabling

- ❑ Whenever possible, keep the pedestals at least 2.4m (8') away from noise sources such as computer monitors, TV's, switching power supplies, and neon displays.
- ❑ Do not position pedestals more than 2.7m (9') apart.
- ❑ Maximum cable distance from the pedestals to the power pack is 12.2m (40').

### Tools and Equipment Required

For all ADS Pro•Max installations:

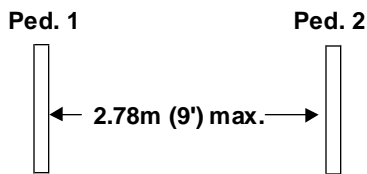
- 6 mil (minimum) plastic sheeting (to protect nearby items from dust)
- Permanent marker and/or pencil
- Floor saw
- Hammer drill with 6.5mm (1/4") and 9.6mm (3/8") masonry drill bits
- Power drill with 1.6mm (1/16"), 6.5mm (1/4"), and 9.6mm (3/8") drill bits
- Hammer
- Phillips and slotted screwdrivers
- 14-16 AWG and 16-22 AWG wire strippers
- 2.4mm (.093") Molex extractor tool
- Ratchet and socket set
- Hand vacuum and broom

# Installing ADS Pro•Max Pedestals

## 1. Position ADS Pro•Max pedestals at exact mounting location (Figure 3).

DO NOT space pedestals more than 2.7m (9') apart.

Figure 3. Pedestal spacing



## 2. If you need to trench the floor between the pedestals, do the following:

Using the floor saw and the appropriate blade, trench the floor from pedestal to pedestal. Trench depth is 1.5cm (3/4"); trench width is .5cm (1/4"). Trench depth allows for .5cm (1/4") of floor compound above the cable.

Make sure that the trench extends under the pedestal location so cables can directly enter the pedestal from underneath.

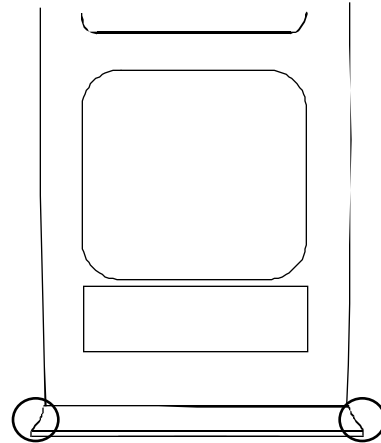
## 3. Route cables from pedestal to pack or pack to pedestal.

A four conductor Tx/Rx cable (0650-2219-01) and a nine conductor Com cable (0650-2220-01) attaches to each pedestal.

## 4. Prepare for cable entry (Figure 4).

Cables can enter the pedestal via a trench, surface Wiremold or buried conduit. Cut the shroud to fit the Wiremold if necessary.

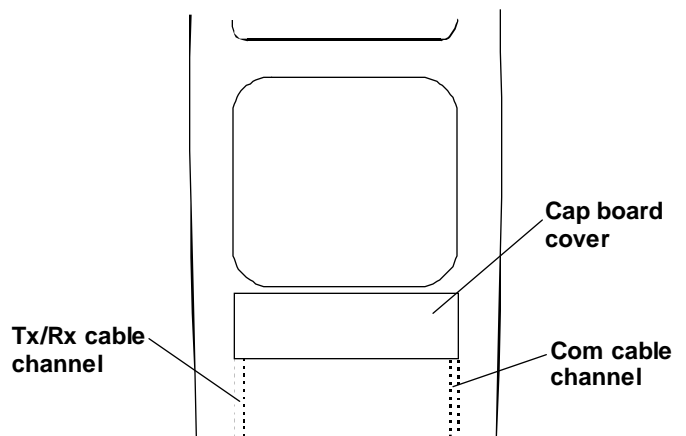
Figure 4. Cable entry points (circled)



## 5. Remove capacitor board cover and route Tx/Rx and Com cables up through base of pedestal (Figure 5).

- Remove screws holding capacitor board cover in place and remove cover.
- Push Tx/Rx cable up through channel in base on left side of capacitor board.
- Push Com cable up through channel in base on right side of capacitor board.

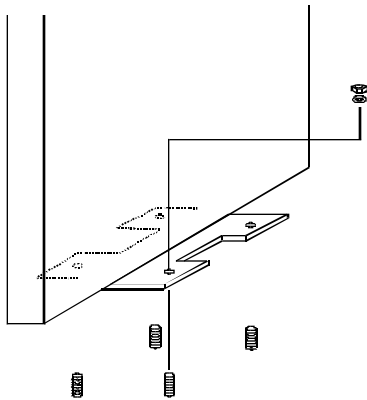
Figure 5. Cable routing in base



**6. Bolt the pedestal to the floor (Figure 6).**

- a. Using the base holes as a template, mark locations for four mounting holes.
- b. Drill 9.6mm (3/8") holes to a depth of 7cm (2.75") for each anchor. Tap an anchor into each hole, leaving 2.5cm (1") of exposed threads.
- c. Place the mounting holes over the four protruding anchors. Secure the base to the floor using anchor hardware provided.

**Figure 6. Bolting down the pedestal**



**7. For each pedestal, connect the Tx/Rx (4 conductor) and Com (9 conductor) cables to the capacitor board. Refer to Figure 2 and Figure 7.**

- a. Using a small screwdriver, attach the TX/Rx cable to connector 2109-0254-04 according to the following table:

Pin 1 -	Black
Pin 2 -	Red
Pin 3 -	Green
Pin 4 -	White
Pin 5 -	Shield
- b. Insert connector 2109-0254-04 into pluggable terminal block P1 on the capacitor board.

- c. Using a small screwdriver, attach the Com cable to connector 2109-0510-10 following the color-coded label:

Pin 1 -	Black
Pin 2 -	Brown
Pin 3 -	Red
Pin 4 -	Orange
Pin 5 -	Yellow
Pin 6 -	Green
Pin 7 -	Blue
Pin 8 -	Violet
Pin 9 -	Gray
Pin 10 -	Shield

- d. Insert connector 2109-0510-01 into pluggable terminal block P6 on the capacitor board.

**8. Connect Tx/Rx cables (4 conductor) to the power pack (Figure 2).**

**WARNING:** Do NOT hot plug cables. Turn off the power pack before connecting cables.

- a. Install Romex-type connectors or conduit fittings in knockouts on pack.
- b. Route each Tx/Rx cable through knockout.
- c. Using a small screwdriver, attach Tx/Rx cables to connectors 2109-0351-05 according to the following table:

Pin 1 -	Black
Pin 2 -	Red
Pin 3 -	Green
Pin 4 -	White
Pin 5 -	Shield
- d. Insert Tx/Rx cable for pedestal A into pluggable terminal block Tx/Rx A; insert transmit cable for pedestal B into pluggable terminal block Tx/Rx B.

**9. Connect Com cables (9 conductor) to the power pack.**

- a. Install Romex-type connectors or conduit fittings in knockouts on pack.
- b. Route each Com cable through knockout.
- c. Using a small screwdriver, attach connectors 2109-0510-10 to each Com cable following the color-coded label.

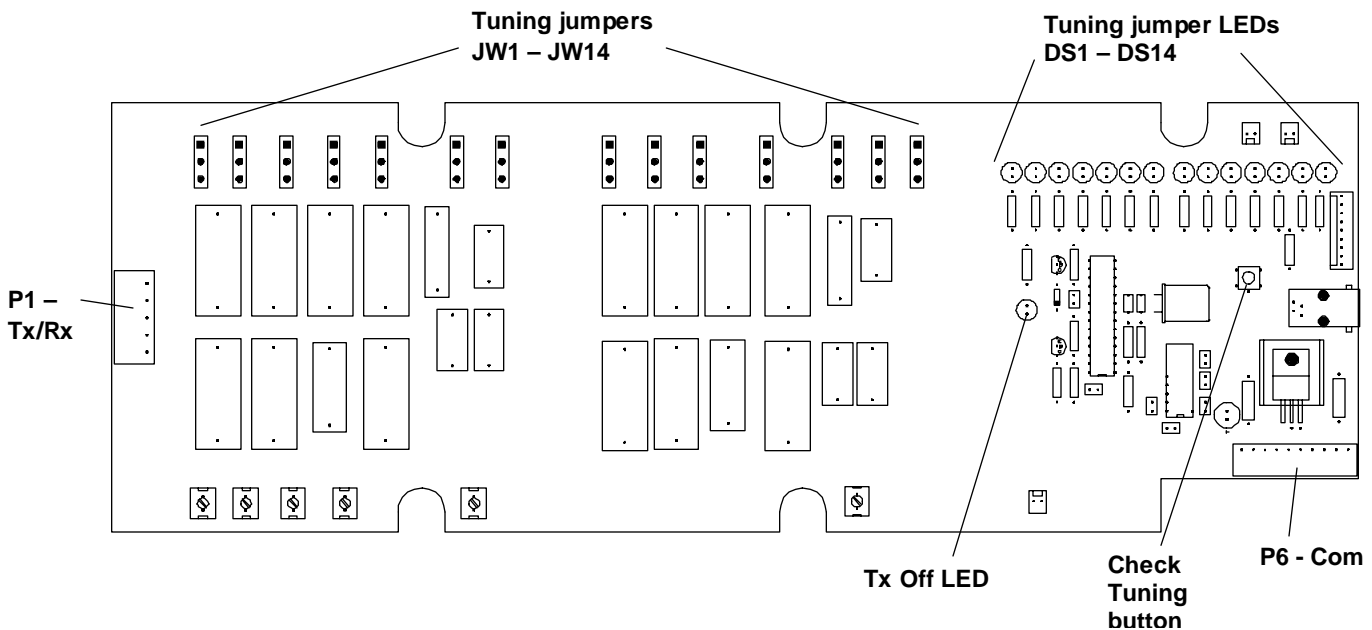
- Pin 1 - Black
- Pin 2 - Brown
- Pin 3 - Red
- Pin 4 - Orange
- Pin 5 - Yellow
- Pin 6 - Green
- Pin 7 - Blue
- Pin 8 - Violet
- Pin 9 - Gray
- Pin 10 - Shield

- d. Insert connectors into pluggable terminal blocks on the power pack. Connect pedestal A to Com A; connect pedestal B to Com B.

**CAUTION:** Be sure the Tx/Rx and Com cables for a pedestal are attached to corresponding connectors. Incorrect connections will cause incorrect alarm signaling.

**Proceed to Pedestal Tuning on page 8.**

Figure 7. Capacitor board 0301-1532-01



## Pedestal Tuning

The pedestal is shipped with default settings that are acceptable for most installations. However, the pedestal may require tuning to adjust for conditions at the installation site.

The pedestal is tuned by changing jumper settings on the capacitor board in each pedestal. The power pack assists tuning by lighting LEDs to indicate the correct jumper settings.

To tune the pedestal, do the following for each pedestal:

1. **If necessary, turn off the power pack.**
2. **Access the capacitor board in the pedestal. Refer to Figure 8.**
3. **Make sure the jumpers are set to the defaults.**

JW1 -	In (1-2)
JW2 -	Out (2-3)
JW3 -	In (1-2)
JW4 -	In (1-2)
JW5 -	In (1-2)
JW6 -	Out (2-3)
JW7 -	Out (2-3)
JW8 -	In (1-2)
JW9 -	Out (2-3)
JW10 -	In (1-2)
JW11 -	In (1-2)
JW12 -	In (1-2)
JW13 -	Out (2-3)
JW14 -	Out (2-3)

4. **Turn on the power pack.**
5. **Check the green status LED on the pedestal.**

**If the green status LED is ON continuously, the pedestal is tuned and pedestal installation is complete.**

**If the green status LED is blinking, the pedestal needs tuning. Proceed to step 6.**

6. **Change the jumpers on the capacitor board to the settings indicated by the yellow LEDs on the capacitor board. Refer to Figure 7.**



### **WARNING—RISK OF ELECTRIC SHOCK!**

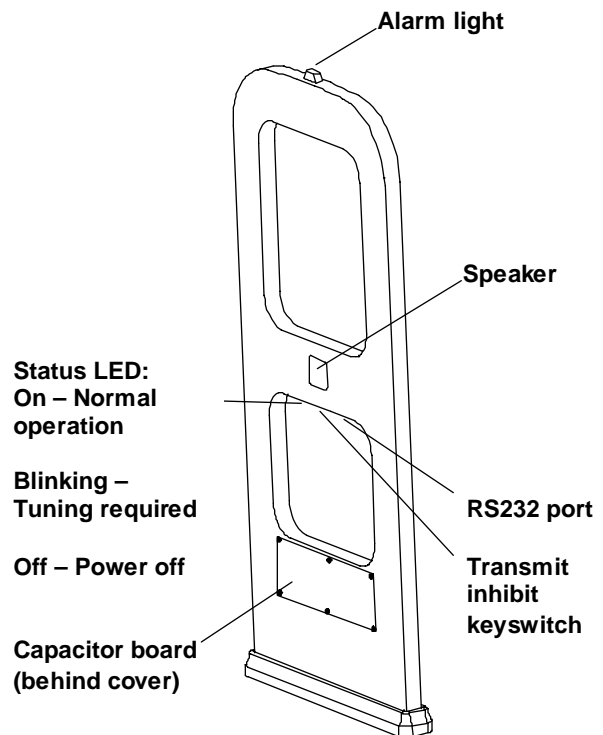
The green Tx Off LED on the capacitor board must be ON before changing jumpers. It indicates there are no high voltages on the board.

If a yellow jumper LED is on, place the corresponding jumper in the 1-2 position. If a yellow jumper LED is off, place the corresponding jumper in the 2-3 position.

7. **Press the Check Tuning button on the capacitor board and return to step 5.**

After repeating steps 5 and 6 several times, the pedestal should be tuned with the green status LED on continuously. If not, contact Sensormatic Customer Service.

Figure 8. Pedestal features





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# Specifications

## Electrical

### Power Supply (Non-European Power Pack)

Primary Input: .....100-120Vac or  
220-240Vac  
@ 50–60Hz  
Primary Power Fuse: .....5A, 250V slo-blow  
Current Draw: .....2.0A peak  
Input Power: .....<180W

### Transmitter

Outputs:.....2 ports (two antennas,  
multiplexed)  
Operating Frequency: .....58 or 60kHz ( $\pm 200$ Hz)  
Transmit Burst Duration.....1.6ms  
Transmit Current: .....16A peak  
Burst Repetition Rate:  
Based on 50Hz ac.....37.5Hz (Normal)  
75Hz (Validation)  
Based on 60Hz ac.....45Hz (Normal)  
90Hz (Validation)

### Receiver

Inputs: .....2 ports (two antennas,  
multiplexed)  
Center Frequency:.....58 or 60kHz  
Receive Coil Resistance: ...1.6 ohms ( $\pm 5\%$ )

### Alarm

Alarm Relay Output .....DPDT contacts  
Contact Switching Current .1.0A max.  
Contact Switching Voltage .28V max.  
Lamp/Audio Duration.....1–30 sec.  
(1 sec. increments)

## Environmental

Ambient Temperature:.....0°C to 50°C (32°F to  
122°F)  
Relative Humidity: .....0 to 90% non-  
condensing

## Mechanical

Height .....164cm (64 ½")  
Width.....70cm (27 5/8")  
Depth .....5cm (2")  
Weight.....21kg (46lbs.)

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# Declarations

## Regulatory Compliance (Non-European Power Pack)

Safety:..... UL 1950  
Can/CSA C22.2  
No. 950  
EMC:..... 47 CFR, Part 15

**FCC COMPLIANCE:** This equipment has been tested and found to comply with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.

**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.

## Other Declarations

**WARRANTY DISCLAIMER:** Sensormatic Electronics Corporation makes no representation or warranty with respect to the contents hereof and specifically disclaims any implied warranties of merchantability or fitness for any particular purpose. Further, Sensormatic Electronics Corporation reserves the right to revise this publication and make changes from time to time in the content hereof without obligation of Sensormatic Electronics Corporation to notify any person of such revision or changes.

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