

# **MAGELLAN 8500 Scanner Scale Service Guide for U-Scan**

**Version: North American  
Document Update: V2  
Date: October 14, 2005**

**U-SCAN<sup>®</sup>**

# Revision History

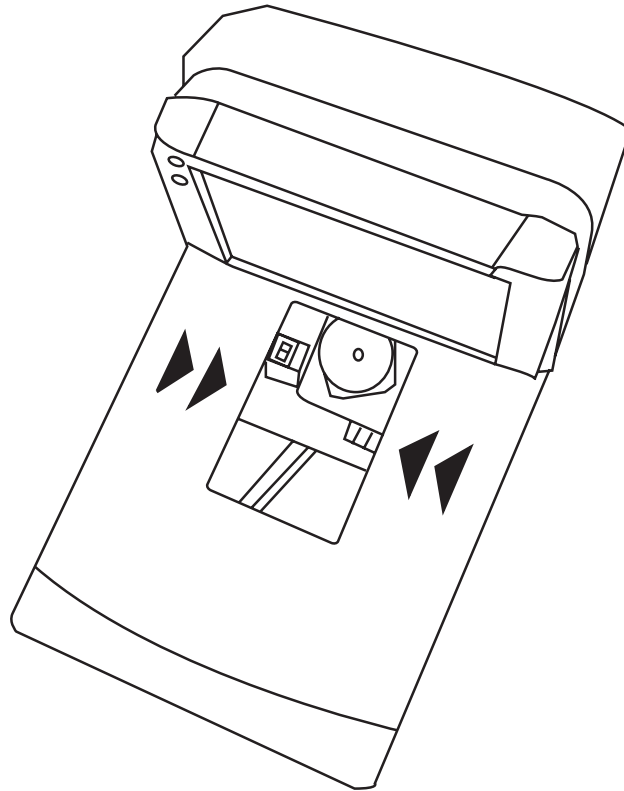
## Version 2:

- Added the bar code for disabling the diagnostic function of the **Volume** button (page 18) and added scenario to the “Common Problems and Solution” section (page 3).
- Added bar code for setting the interface to RS-232 (page 17) and added scenario to the “Common Problems and Solutions section (page 3).

## Version 1:

- Document creation.

# MAGELLAN 8500



**MAGELLAN 8500: Overhead View**

**Features:**

- Configurable sleep and wake-up mode
- First Strike™ decoding software that enables the Scanner to read torn and damaged bar codes
- SurroundScan™ technology scans all six sides of an item at once
- Produce rail
- EAS functionality
- 30 lb. (15 kg) weight capacity
- 0.1 lb. (0.005 kg) minimum increment
- 64 optical scan lines
- 6400 lines/sec. scan rate
- 360° x 2 scan zone

# Technical Specifications

## Environment

- Temperature: 50°F to 104°F (10° to 40°C)
- Relative Humidity: 5% to 95% non-condensing

## Power Supply Requirements

- Spectra-Physics power supply can operate within the following range of AC power levels:  
100 to 240 V ac at 50-60 Hz
- Input: 100 to 240 V ac  $\pm$ 10%, 50 to 60 Hz, 0.5 A @ 100 V
- Output: 5 V, 1 A; 12 V, 0.7 A; -12 V, 0.2 A

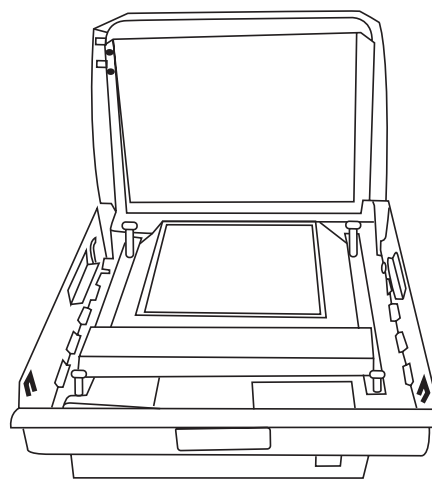
## Communication

- Standard RS-232 connection to DIGI Box or Edgeport

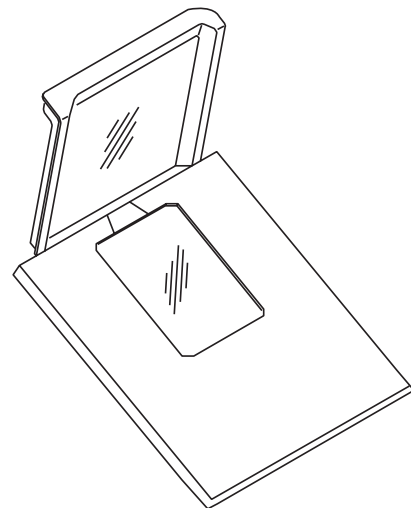
## Components of the MAGELLAN 8500

The MAGELLAN 8500 Scanner Scale includes the following components:

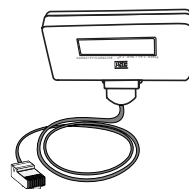
- MAGELLAN 8500 Scanner Scale
- Communication cable (RJ-45 to DB-25 female)
- Spectra-Physics AC/DC power supply
- Pole display (RJ-47 connector)  
**NOTE:** *The MAGELLAN SL power cable and pole display are not compatible with the MAGELLAN 8500.*



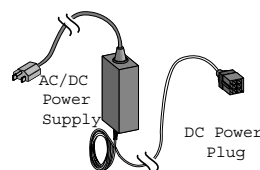
MAGELLAN 8500 Scanner Scale



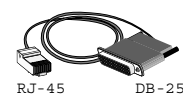
MAGELLAN Platter



RJ-47  
Pole Display



Power Supply



Data Cable

# MAGELLAN 8500 Common Problems and Solutions

This section provides basic steps for resolving common problems.

Issue	Possible Cause	Solutions
The Scanner Scale is scanning items but the information is not sent to the POS application.	Scanner Scale is in diagnostic mode	<ul style="list-style-type: none"> <li>Press and hold the <b>Volume</b> button to reset the Scanner Scale.</li> <li>Scan the Disable Diagnostic Mode on Volume bar code (page 18) to prevent the store from accidentally putting the Scanner Scale into diagnostic mode.</li> </ul>
A newly installed Scanner Scale continues to cause an <b>OFFLINE</b> message in <b>Device Tester</b> even after it has been reprogrammed with the appropriate bar codes.	The interface type is not properly set	<ul style="list-style-type: none"> <li>Scan the Interface Type - RS-232 Single bar code to set the Scanner Scale to the correct interface type.</li> </ul>
An error code appears on the 7-segment LED inside the Scanner Scale.	Problem with Scanner Scale	<ul style="list-style-type: none"> <li>Refer to "Seven-Segment LED Display Error Messages" on page 3 for an explanation of individual error codes and troubleshooting procedures.</li> </ul>
An error code appears on the pole display.	Problem with Scanner Scale	<ul style="list-style-type: none"> <li>Refer to "Pole Display Error Messages" on page 5 for an explanation of individual error codes and troubleshooting procedures.</li> </ul>

## Seven-Segment LED Display Error Messages

Error	Cause	Solutions
Scrolling Identification numbers for the interface type, firmware, and configuration (example: <b>IF-05 r96-1234 r96-5593</b> )	Scanner Scale is in diagnostic mode.	<ul style="list-style-type: none"> <li>Press and hold the <b>Volume</b> button to reset the Scanner Scale.</li> <li>Scan the Disable Diagnostic Mode on Volume bar code (page 18) to prevent the store from accidentally putting the Scanner Scale into diagnostic mode.</li> </ul>

<b>Error</b>	<b>Cause</b>	<b>Solutions</b>
0 (Flashing)	Configuration	<ul style="list-style-type: none"> <li>• Scan the bar codes to reprogram the Scanner Scale.</li> </ul>
1	Configuration error	<ul style="list-style-type: none"> <li>• Scan the bar codes to reprogram the Scanner Scale.</li> </ul>
2	Interface board	<ul style="list-style-type: none"> <li>• Reset the Scanner Scale.</li> <li>• If the problem persists, contact Support Center. The Scanner Scale needs to be replaced.</li> </ul>
3	Motor	<ul style="list-style-type: none"> <li>• Reset the Scanner Scale.</li> <li>• If the problem persists, contact Support Center. The Scanner Scale needs to be replaced.</li> </ul>
4	Horizontal laser	<ul style="list-style-type: none"> <li>• No action is required. The Scanner Scale will operate until both the horizontal and vertical lasers fail.</li> </ul>
5	Vertical laser	<ul style="list-style-type: none"> <li>• No action is required. The Scanner Scale will operate until both the horizontal and vertical lasers fail.</li> </ul>
6	Digital board	<ul style="list-style-type: none"> <li>• Reset the Scanner Scale.</li> <li>• If the problem persists, contact Support Center. The Scanner Scale needs to be replaced.</li> </ul>
7	Scale	<ul style="list-style-type: none"> <li>• Check the pole display for errors. Refer to “Pole Display Error Messages” troubleshooting solutions.</li> </ul>
8	Pole display	<ul style="list-style-type: none"> <li>• Connect the pole display. If necessary, replace the cable or the pole display.</li> </ul>
.	3.3 V present	<ul style="list-style-type: none"> <li>• Scanner Scale is functioning normally.</li> </ul>

## Pole Display Error Messages

Error	Scale Status Lamp	Cause	Solutions
-0-	Off	<ul style="list-style-type: none"> <li>The Scanner Scale cannot zero when it is powered on.</li> <li>Weight remains on the Scanner Scale for more than 4 minutes.</li> </ul>	<ul style="list-style-type: none"> <li>Check the debris chutes.</li> <li>Ensure that the MAGELLAN platter moves freely.</li> <li>Remove any items from the Scanner Scale.</li> <li>Press the <b>Scale Zero</b> button.</li> </ul>
E_1	Strobe, pause, 1 blink, long pause, repeat.	Too much motion when the Scanner Scale powers up.	<ul style="list-style-type: none"> <li>Check for stable installation.</li> <li>Scan the bar codes in this section to reprogram the Scanner Scale, then restart the Scanner Scale.</li> <li>If the problem continues, recalibrate the Scanner Scale.</li> </ul>
E_2	Strobe, pause, 2 blinks, long pause, repeat.	Calibration lost.	<ul style="list-style-type: none"> <li>Recalibrate the Scanner Scale.</li> </ul>
E_3	Strobe, pause, 3 blinks, long pause, repeat.	<ul style="list-style-type: none"> <li>Communication problem.</li> <li>Internal Scanner Scale problem.</li> </ul>	<ul style="list-style-type: none"> <li>Contact Support Center. The Scanner Scale needs to be replaced.</li> </ul>
E_4	Strobe, pause, 4 blinks, long pause, repeat.	Scanner Scale module failure.	<ul style="list-style-type: none"> <li>Contact Support Center. The Scanner Scale needs to be replaced.</li> </ul>



# Troubleshooting the MAGELLAN 8500 (Viper) Scanner Scale

**NOTE:** *The pole display, power cable, and programming bar codes for the MAGELLAN SL cannot be used for the MAGELLAN 8500.*

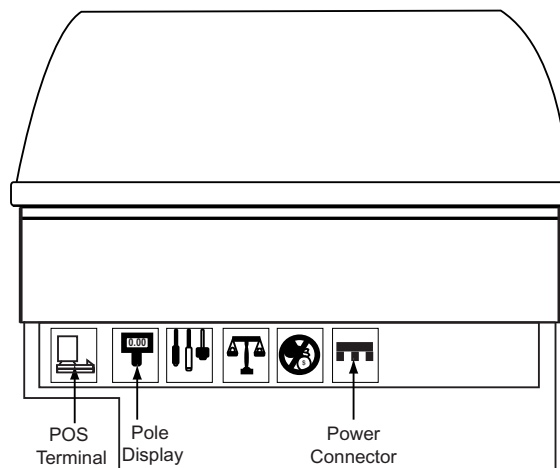
## 1. Follow the Testing Procedure

See “[Testing the Scanner Scale in the Device Tester.](#)”

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## 2. Check the Power

- 1 Remove the Scanner Scale from the Customer Station.
- 2 Ensure that the power cord is connected to the Scanner Scale.



Back of MAGELLAN 8500

- 3 Ensure that the power cord is connected to the power bar.
  - 4 Disconnect the power cable, and then reconnect it to cycle the power.
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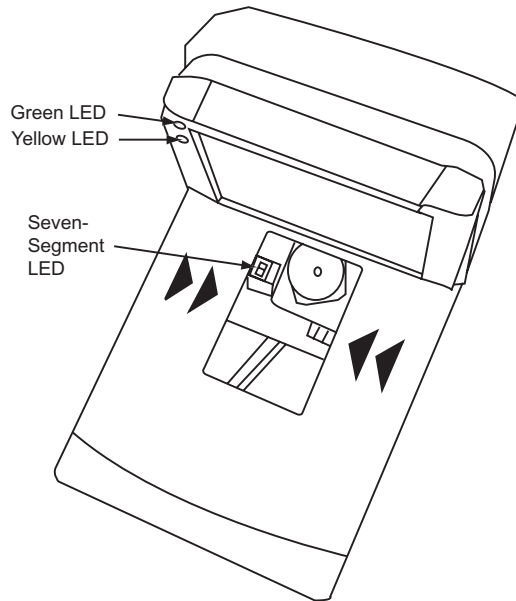
## 3. Inspect the Data Cable

- 1 Ensure that the data cable is connected to the underside of the Scanner Scale.
- 2 Ensure that the data cable is connected to port 3 on DIGI Box or Edgeport.

# Troubleshooting the MAGELLAN 8500 (Viper) Scanner Scale *(Cont'd)*

## 4. Zero the Scanner Scale

- 1 Press the **Zero** button.
- 2 Ensure that the yellow LED is on and steady (i.e. that it is **not** flashing).



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## 5. Reset the MAGELLAN

Press and hold the **Volume** button for 8-10 seconds until the motor slows down.

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## 6. Program the MAGELLAN

**NOTE:** 1. Refer to “Additional Information for the MAGELLAN 8500 (Viper) Scanner Scale” for programming bar codes.  
2. Scan tags in the order prescribed in these tasks.

- 1 Connect one end of the power cord to the Scanner Scale and the other end to an electrical outlet.  
The Scanner Scale completes a self-test and emits a tone.  
The green light blinks at a steady rate.
- 2 Scan the Switch label to put the Scanner Scale into programming mode.  
The green light flashes on and off in programming mode.

## Troubleshooting the MAGELLAN 8500 (Viper) Scanner Scale (Cont'd)

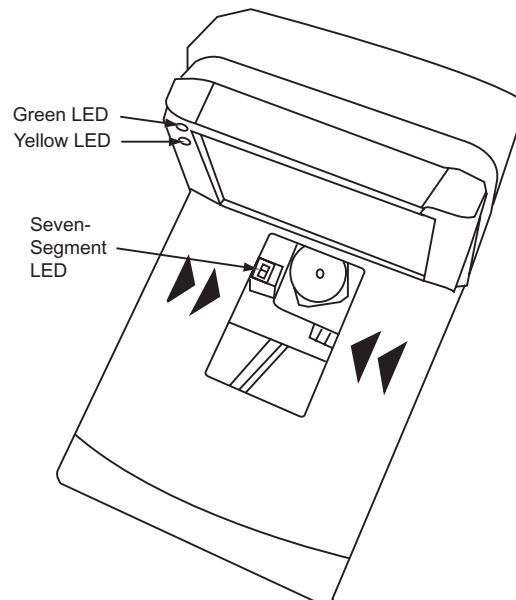
- 3 Scan the programming label for the feature being changed (e.g., Baud Rate).  
The Scanner Scale emits a 'good read' (high) tone to indicate that the label was read, and that the setting was stored in memory.
- 4 Scan the remaining programming labels as required.  
Ensure that all the desired programming labels have been scanned successfully.
- 5 Scan the Switch label again to save and exit programming mode.

**NOTE:** *If you scan a label that is not a valid programming label, the Scanner Scale emits a rapid series of beeps.*

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### 7. Inspect the Seven-Segment LED Display

- 1 Locate the seven-segment LED display beneath the MAGELLAN platter.



- 2 Check the seven-segment LED for any error messages. If the Scanner Scale is functioning normally, a decimal point (.) displays.
- 3 If necessary, refer to [“Seven-Segment LED Display Error Messages”](#) in [“MAGELLAN 8500 Common Problems and Solutions”](#) for troubleshooting solutions.

# Troubleshooting the MAGELLAN 8500 (Viper) Scanner Scale *(Cont'd)*

## 8. Inspect the Pole Display

- 1 Locate the pole display.
- 2 Check the pole display for any error messages.
- 3 If necessary, refer to [“Pole Display Error Messages”](#) in [“MAGELLAN 8500 Common Problems and Solutions”](#) for troubleshooting solutions.

# MAGELLAN 8500 Maintenance

## Cleaning the Scanner Scale

- 1 Remove all items from the Scanner Scale.
- 2 Prepare a solution of one part glass cleaner and one part water.
- 3 Spray the solution on a lint-free cleaning pad or cloth, then wipe the device. Take care to avoid scratching the device surface.

**NOTES:** *Do **not** spray the cleaning solution directly on any surface.*

*Do **not** use alcohol, acetone, abrasive cleaning products or abrasive pads.*

- 4 If necessary, remove the top platter of the Scanner Scale to clean the underside of the glass.
- 5 Replace the platter.

# Additional Information for the MAGELLAN 8500 (Viper) Scanner Scale

This section contains the following information:

- [Volume/Tone Button Functions](#) (page 13): Table explaining the functions of the **Volume/Tone** button (i.e. how to set the volume, wake the Scanner Scale from sleep mode, etc.).
- [Zero Button Functions](#) (page 14): Table explaining the functions of the **Zero** button.
- [Yellow and Green LED Indications](#) (page 15): Table explaining the status (i.e. steady, flashing, etc.) of the yellow and green LEDs.
- [Restoring the Factory Default Settings](#) (page 16): Bar code for restoring the factory default settings.
- [Setting the Interface Type to RS-232](#) (page 17): Bar code for setting the interface type to RS-232.
- [Disabling the Diagnostic Function of the Volume Button](#) (page 18): Bar code for disabling the diagnostic function of the **Volume** button.
- [Enabling the Pole Display](#) (page 19): Bar code sequence for enabling the pole display.
- [Disabling the Pole Display](#) (page 22): Bar code sequence for disabling the pole display.
- [Converting the Scale from Imperial to Metric](#) (page 25): Bar code sequence for converting the Scale from Imperial (English) to Metric.
- [Converting the Scale from Metric to Imperial](#) (page 28): Bar code sequence for converting the Scale from Metric to Imperial (English).
- [Calibrating the MAGELLAN 8500](#) (page 31): Procedure for calibrating the MAGELLAN 8500.
- [Modifying the Double Read Timeout Setting](#) (page 35): Bar code sequences to set the Double Read Timeout Setting to 160ms, 400ms, or 600ms.

## Volume/Tone Button Functions

Duration	Function	Additional Information
Momentary (when Scanner Scale is in sleep mode)	Wakes Scanner Scale from sleep mode.	The Scanner Scale can also be brought out of sleep mode by: <ul style="list-style-type: none"> <li>• Moving an object through the scan zone.</li> <li>• Changing the weight on the weighing platform.</li> </ul>
Momentary (when the Scanner Scale is in scanning mode)	Increases volume	<ul style="list-style-type: none"> <li>• When the loudest volume is reached, press the button again to bring the volume to the lowest setting.</li> <li>• Five volume levels are available.</li> </ul>
Hold until a beep sounds (approximately 2 seconds)	Changes tone	<ul style="list-style-type: none"> <li>• Three tones (high, medium, or low) are available.</li> </ul>
8 seconds	Resets Scanner Scale	N/A

## Zero Button Functions

Duration	Function	Additional Information
Momentary (while in scanning mode)	Zeros the Scale.	N/A
4 seconds	Accesses diagnostic mode.	<ul style="list-style-type: none"> <li>• The Scanner Scale beeps six times when it enters diagnostic mode.</li> <li>• A <b>1</b> displays on the pole display while the diagnostic routine runs.</li> <li>• After the diagnostic routine runs, the pole display shows how many times the Scanner Scale has been zeroed and recalibrated.  <b>EXAMPLE: C XXX</b> where <b>XXX</b> represents the number of times the Scanner Scale has been calibrated.  <b>ZERO XXX</b>, where <b>XXX</b> represents the number of times the Scanner Scale has been zeroed.</li> </ul>
Momentary (while in diagnostic mode)	Exits diagnostic mode.	N/A

## Yellow and Green LED Indications

LED Status	Explanation
Yellow LED on steady	The Scanner Scale is reset (zeroed) and reads zero weight.
Green LED on steady and dim	The Scanner Scale is ready to scan items.
Green LED flashes brightly	The Scanner Scale has read and decoded a bar code.
Green LED flashes continuously	The Scanner Scale is in programming mode. Cycle the power to exit programming mode.
Green LED blinks at 2-second rate	The Scanner Scale motor and/or laser have automatically shut off. The Scanner Scale is in sleep mode because it has been inactive for an extended period of time.
1 second off, 1/10 second on	The host (U-Scan system) has disabled scanning.
Audible low tone for 3 seconds. Alternating green/yellow LED flashes continuously.	Fatal Field Replaceable Unit (FRU) failure has been detected. The Scanner Scale can still function in a reduced capacity if the LED does not flash continuously when the low tone sounds. Call the U-Scan Support Center.
Green LED flashes and speaker beeps a coded sequence.	Occurs when you push the <b>Volume/Tone</b> button after an FRU failure has been detected. The code enables service technicians to identify FRU failures. Turn the Scanner Scale off, then on again to exit the diagnostic mode.

## Restoring the Factory Default Settings

Scan the following bar code to restore the factory default settings. Scan this bar code in the following instance:

- The Scanner Scale is not working properly.

**NOTE:** *Disregard the message **MECHANICAL\_ERROR**.*

*You do **not** need to scan the Switch Label before or after this bar code.*



## Setting the Interface Type to RS-232

If an newly installed Scanner Scale continues to generate a **Scanner Scale::OFFLINE** message in **Device Tester** after it has been reprogrammed with the correct bar codes, the interface type may not be set correctly.

Scan the following bar code to set the interface to RS-232 **and then rescan the programming bar codes.**



INTERFACE TYPE = RS-232 SINGLE CABLE

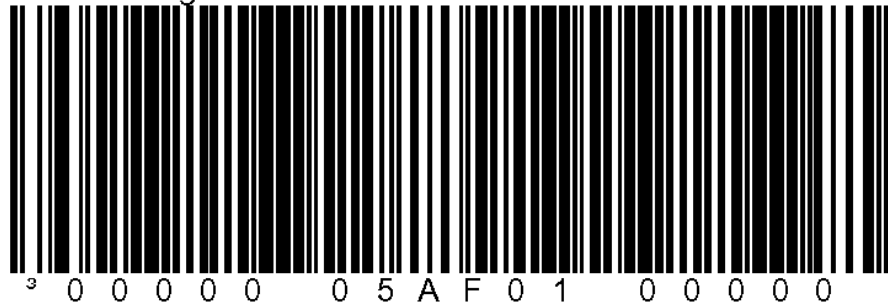
## Disabling the Diagnostic Function of the Volume Button

If the diagnostic function is not disabled, the Scanner Scale will enter diagnostic mode if the user presses and holds **Volume** button for 5 seconds.

In diagnostic mode, the Scanner Scale continues to scan bar codes, but the data is not sent to the POS application. Identification numbers for the interface type, firmware, and configuration (example: IF-05 r96-1234 r96-5593) scroll continually across the 7-segment LED when the Scanner Scale is in diagnostic mode.

Scan the bar code below to disable the diagnostic function of the **Volume** button and prevent the store from accidentally putting the Scanner Scale into diagnostic mode.

Disable Diagnostics on Volume Button



## Enabling the Pole Display

The Scanner Scale can operate with or without a pole display. Scan the bar codes below to enable the pole display. You must perform this procedure in the following instance:

- If you wish to add a pole display to a Scanner Scale that is currently being used without a pole display.

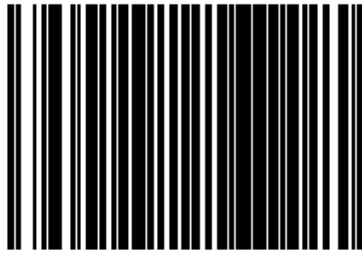
**NOTE:** *If the pole display is enabled but not connected to the Scanner Scale, the Scanner Scale sounds a long, low tone on power-up, and the message 8 appears on the LED display under the MAGELLAN platter. To clear this message:*

- 1 Connect the pole display.
- 2 Turn the Scanner Scale off, then on again.  
The message is cleared.

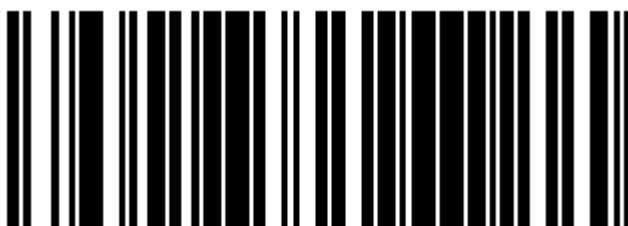
OR

Refer to “Disabling the Pole Display” to disable the pole display.

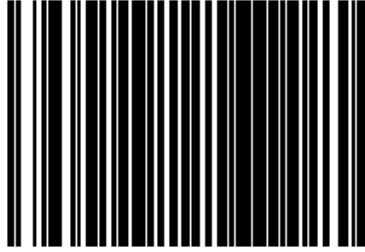
Switch Label



Remote Display = Enable



Switch Label



## Disabling the Pole Display

Scan the following bar codes to disable the pole display. Disable the pole display in the following instances:

- If the Scanner Scale does not require a pole display.
- If error message **8** appears on the LED display under the MAGELLAN platter and the Scanner Scale does not require a pole display.

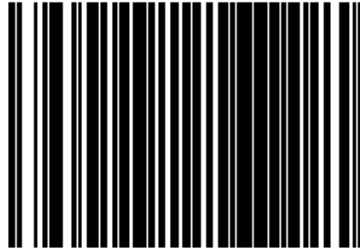
**NOTE:** *If the pole display is enabled but not connected to the Scanner Scale, the Scanner Scale sounds a long, low tone on power-up, and the message **8** appears on the LED display under the MAGELLAN platter. To clear this message:*

- 1 Connect the pole display.
- 2 Turn the Scanner Scale off, then on again.  
The message is cleared.

OR

Scan the following bar codes to disable the pole display.

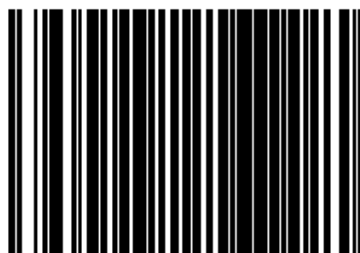
Switch Label



Remote Display = Disable



Switch Label

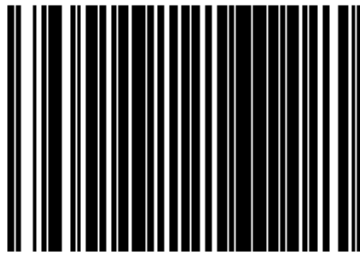


## Converting the Scale from Imperial to Metric

Scan the following bar codes if you need to convert a Scale from Imperial (pounds) to metric (kilograms). **After you scan these bar codes, you must calibrate the Scanner Scale.**

**NOTE:** *Once the Scale is set to Metric, the default bar code will not set the Scale to Imperial.*

Switch Label

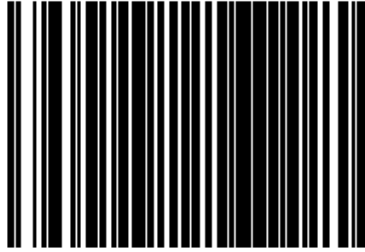


Scale Data = METRIC



**Press and hold the Calibration button while you scan the Scale Data = METRIC bar code.**

Switch Label

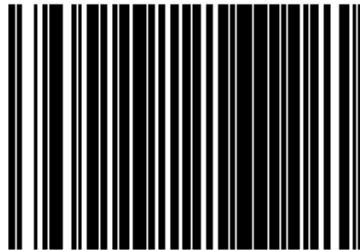


Calibrate the Scanner Scale. Refer to “[Calibrating the MAGELLAN 8500.](#)”

## Converting the Scale from Metric to Imperial

Scan the following bar codes if you need to convert the Scale from Metric (kilograms) to Imperial (pounds). **After you scan these bar codes, you must calibrate the Scanner Scale.**

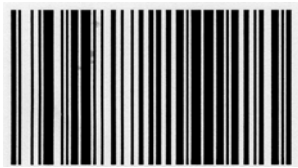
Switch Label



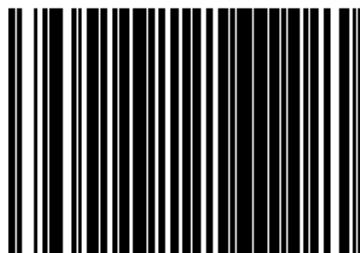


**Press and hold the Calibration button while you scan the Scale Data = ENGLISH bar code.**

Scale Data = ENGLISH



Switch Label



Calibrate the Scanner Scale. Refer to [“Calibrating the MAGELLAN 8500.”](#)

# Calibrating the MAGELLAN 8500

## When to Calibrate the MAGELLAN 8500

The Scanner Scale may need to be calibrated if:

- It cannot be reset to zero.
- The weight measure has been changed from pounds to kilograms or vice versa.
- The diagnostics indicate a calibration error.
- The weight module has been replaced.

Continue with the following steps to ensure that the Scanner Scale meets the Office of Weights and Measures' requirements.

### LEGAL NOTE

**Certification of the Scanner Scales weighing apparatus is subject to federal, state and local Weights and Measures statutes and is restricted to authorized government agencies and/or duly registered agents thereof. Anytime a scale is calibrated, it should be properly sealed with a lead, wire or paper seal before being placed into service.**

**It is the user's responsibility to verify with the appropriate authorities in the area to ensure compliance with pertinent regulations before removing official seals or putting a newly calibrated Scanner Scale into service.**

## Description of Calibration Sequence

The Calibration Sequence sets the Scanner Scale to an accurate reference point for weighing. This process involves the use of a Field Standard Weight Set for calibration in pounds (31.5 pounds), 18.5 kilograms for Metric calibration. Once calibration is successfully completed, the Scanner Scale uses the certified weight as a reference for subsequent weighing.

These verification procedures follow the U.S. National Institute of Standards and Technology 44 Handbook guidelines for bench/counter scale installations.

If any of these tests fail to meet the required weight indications, the MAGELLAN Scanner Scale must be calibrated. Refer to the calibration procedures in this section for the proper procedures.

You may be required by state and/or local regulations to have procedures other than those performed by a certified technician or verification official.

## Calibrating the MAGELLAN 8500 (Cont'd)

If required by the local regulatory agency, restrict access to the calibration switch with a paper or a wire and lead seal after the calibration is complete.

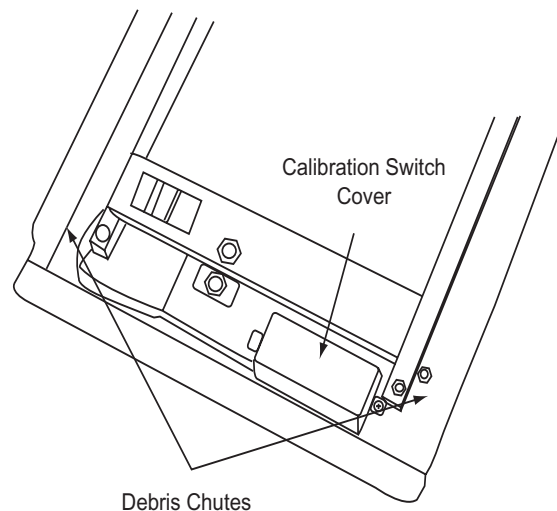
**NOTE:** *Do not remove the Scanner Scale when you perform the calibration sequence.*

**The calibration requires the following tools and supplies:**

- 31.5 pound Field Standard Weight Set (English calibration only)
- 18.5 kilogram Field Standard Weight Set (Metric calibration only)
- Lead/Wire or Paper Seal (as required by law).

**NOTE:** *You can use a combination of weights for the specified weights in the calibration procedures. For example, 20 lbs. can consist of one 10 lb. and two 5 lb. weights; 10 kg can consist of two 5-kg weights.*

- 1 Ensure that the Scanner Scale is stable, secure and properly installed.
- 2 Turn on the Scanner Scale.
- 3 Allow the device to reach temperature equilibrium. This takes approximately one hour. If the Scanner Scale is already at room temperature, allow at least 15 minutes for acclimatization.
- 4 Place the Field Standard Weight set and its case on the Scanner Scale to prestress the Scale before calibration.  
The message [ \_--- ] displays to indicate that there is too much weight on the Scanner Scale.
- 5 Remove the weight set from the Scanner Scale.
- 6 Remove the MAGELLAN platter.
- 7 Check that the debris chutes are clear.
- 8 Locate the calibration switch cover.

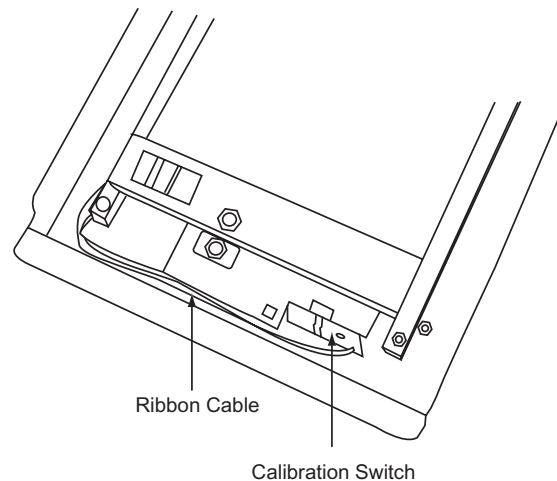


## Calibrating the MAGELLAN 8500 (Cont'd)

- 9 Cut and remove the seal that secures the calibration switch cover.

**NOTE:** *This seal may not be present if this is the initial installation of the Scanner Scale.*

- 10 Remove the screw that holds the cover in place.
- 11 Carefully remove the cover so that you do not damage the ribbon cable.



- 12 Press and release the **Calibration** switch to place the Scanner Scale in **Calibration Mode**.

The Scanner Scale beeps to indicate that it is in **Calibration Mode**. If the motor is spinning when **Calibration Mode** is initiated, the motor stops and the yellow LED begins to flash indicating that the device is in **Calibration Mode**. The display shows the **ESCL** message (empty Scale).

- 13 Replace the MAGELLAN platter.
- 14 Press the **Zero** button.  
The yellow (zero) LED goes out for approximately 10 seconds, and the pole display alternately shows [---] and [\_\_\_] until the Scanner Scale is ready to proceed.
- 15 Wait until the yellow LED begins to flash again and the display shows the message **Ad20lb** or **Ad10kg**.

**NOTE:** *If there is no pole display, the Scanner Scale beeps once if it is weighing in kilograms and twice if it is weighing in pounds.*

- 16 Place the correct weight from the Field Standard Weights - 20 lbs. for Imperial or 10 kg for Metric - on the center of the weighing area.

## Calibrating the MAGELLAN 8500 (Cont'd)

- 17** Press the **Zero** button.  
The yellow LED goes out for approximately 10 seconds and the pole display alternately displays [---] and [\_\_\_] until the Scanner Scale is ready to proceed.

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<b>IF</b>	<b>THEN</b>
Calibration is successful	the speaker sounds a single tone, the green LED begins to flash, and the message <b>End-</b> appears on the pole display. Go to step <b>18</b> .
Calibration fails	the speaker sounds five tones indicating a Scale failure and the green <b>LED</b> flashes twice, strobos (fast flashes) and continually repeats this sequence until it is reset. Remove all weight from the weigh platter and repeat step <b>9</b> to step <b>17</b> .

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- 18** Press the **Zero** button.  
This permanently stores the calibration data and exits Calibration Mode. The calibration of the Scanner Scale is complete.
- 19** Replace the calibration switch cover.
- 20** Ask the store manager to contact the Office of Weights and Measures to verify the calibration.

## Modifying the Double Read Timeout Setting

The factory default setting for the Double Read Timeout is 600ms. This setting should be set to **160ms**. Refer to “Setting the Double Read Timeout to 160ms” for the bar codes to scan.

However, if you discover that 160ms is too short a time for this setting:

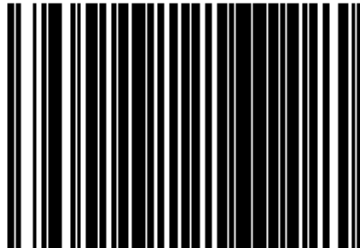
- Set the Double Read Timeout to 400ms. Refer to “[Setting the Double Read Timeout to 400ms.](#)”
- Test the Scanner Scale. If you experience any problems with the Scanner Scale, restore the default setting (600ms). Refer to “[Setting the Double Read Timeout to 600ms \(Default Setting\).](#)”

### Setting the Double Read Timeout to 160ms

Scan the following bar codes in the order below to set the Double Read Timeout setting to 160ms. Perform this procedure in the following instances:

- When you install a new MAGELLAN 8500 Scanner Scale for the first time (i.e. out of the box).
- When the Double Read Timeout feature is set to 600ms. In this scenario, if a customer scans an item, does not put it in the bag, then attempts to scan another item, a delay occurs between the time the violation is cleared and time the next item can be scanned. Set the **Double Read Timeout** feature to 160ms to reduce the delay.

Switch Label

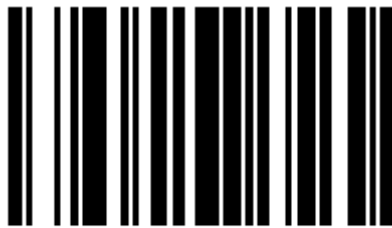


## Set Double Read Timeout



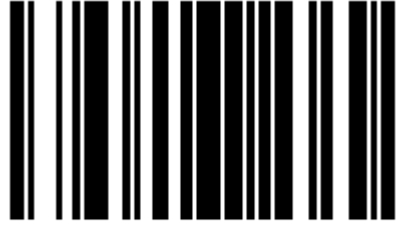
SET DOUBLE READ TIMEOUT

0 bar code



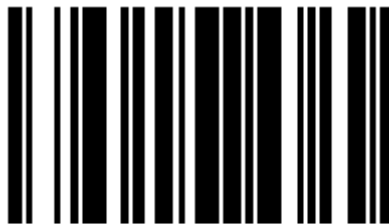
0

1 bar code



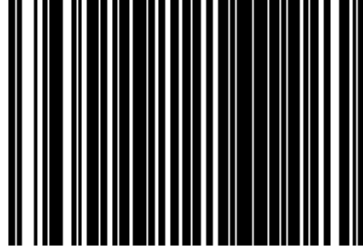
1

6 bar code



6

Switch Label

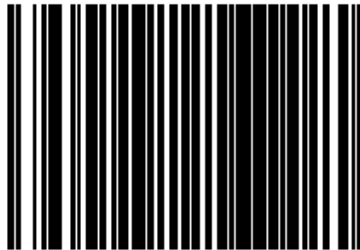


**Setting the Double Read Timeout to 400ms**

Scan the following bar codes if the Double Read Timeout setting is too short at 160ms.

**NOTE:** *Only set the Double Read Timeout to 400ms if the delay is too long at 600ms.*

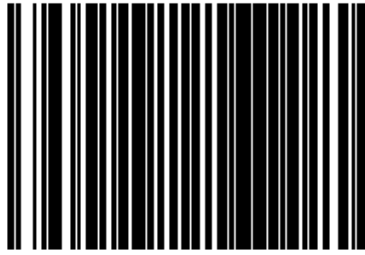
Switch Label



Double Read Timeout = 400ms



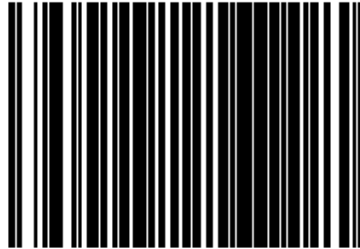
Switch Label



**Setting the Double Read Timeout to 600ms (Default Setting)**

Scan the following bar codes if you experience problems when the Double Read Timeout is set to 160ms AND when it is set to 400ms.

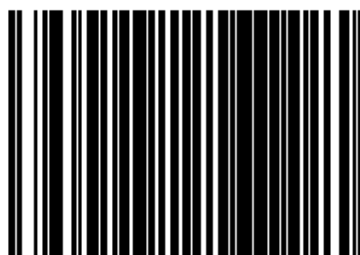
Switch Label



Double Read Timeout = 600ms



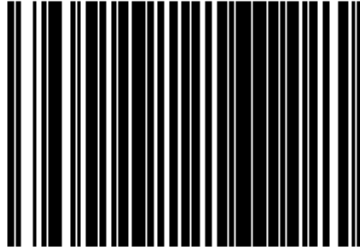
Switch Label



## **Extending the Minimum Digit Read for Code 39 Bar Codes**

Scan the following bar code sequence if the MAGELLAN 8500 is receiving repeated bar code scans when there is no bar code near the Scanner Scale.

Switch Label



Code 39 Min. Length = 6



Switch Label

