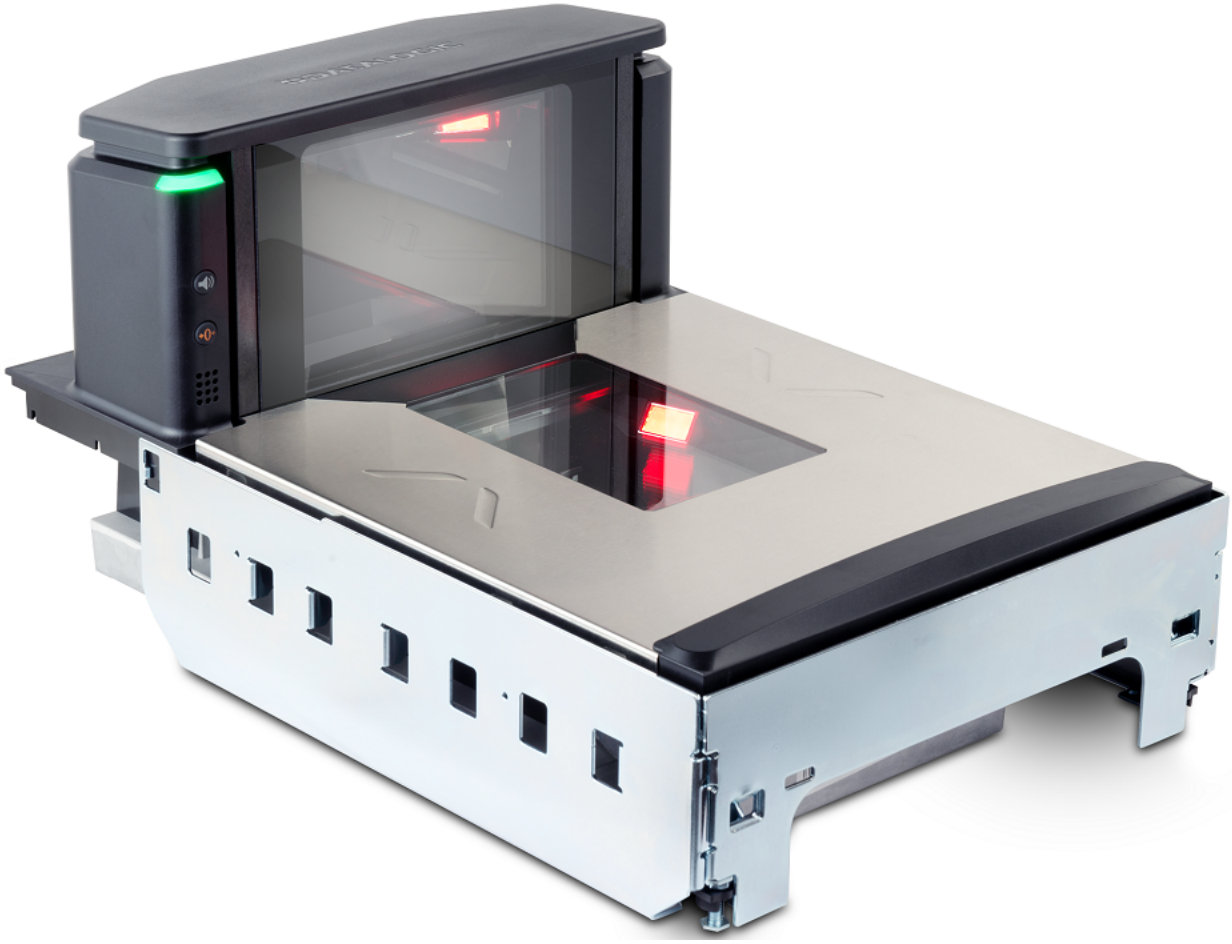
MAGELLAN™ 9550i

ADAPTIVE SCALE INTEGRATION GUIDE



Scanner and Scanner-Scale with Imaging Technology

DATALOGIC

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NOTES

OVERVIEW

The MGL9550i Scanner supports the addition of an adaptive scale for added weighing functions. This guide provides the basic information required to integrate an adaptive scale with the MGL9550i.

Appendix A provides mechanical information describing how to integrate an adaptive scale.

Appendix B has additional graphics illustrating the general procedure to integrate the adaptive scale.

Connection

The electrical connection to the Adaptive Scale is through the MGL9550i's Scale Host Port. This port is labeled on the back of the scanner, and is colored green for easy identification. The connection is an RJ45 10P10C connector. This is not to be confused with a standard CAT5 (RJ45 10P8C) connection, which is only 8 pins. Do not use a standard 10P8C cable as it will bend the outer contacts of the connector.

Power

The Adaptive Scale connection provides +12V power on the Scale Host port (see pinout for placement). This power is limited to 1.00W.

Signals

The Adaptive Scale interface consists of 3 signals. These are Scale Zero Button, Tare Button, and Zero LED indication.

Functional details are listed below:

- **Scale Zero Button**: This signal reflects the state of the Scale Zero button on the scanner's bonnet. This signal is an output from the scanner. This signal goes low when the button is pressed. It has an internal 1K pullup.
- **Tare Button**: See Scale Zero Button above.
- **Zero LED Indication**: The scanner has an LED indicator next to the scale zero button. The state of the Zero LED Indication signal will be reflected in the Scale Zero LED indicator. This signal is an input to the scanner. This indication is next to the Scale Zero button on the scanner's buttons and indication panel. The LED turns on when this signal is low. This signal should be driven with an open collector output. The signal has an internal 10k pullup to 3.3V. The choice of Scale Zero LED Indication is accessed with standard scanner configuration methods.

Pinout

The pinout of the RJ45 10P10C connector is shown below:

Pin Number	Name	Direction (Scanner Perspective)	Active	Open Collector?	Pullup Value	Pullup Voltage	Other
1	Reserved						
2	Reserved						
3	Tare Button	Output	Low	Has internal 1k Pullup		5V	
4	Reserved						
5	Reserved						
6	Reserved						
7	Zero LED Indication	Input	High		Has internal biased transistor with pull down	3.3V	
8	Power	Output					+12V +/- 10%
9	Ground	Ground					
10	Scale Zero Button	Output	Low	Has internal 1k Pullup		5V	

APPENDIX A
MECHANICAL CONSIDERATIONS

Prior to scale installation, remove the scanner-only platter supports from the underside of the platter and platter block (if present) from the top side of the bonnet as shown in Figure 1 and Figure 2.

Figure 1. Platter Supports

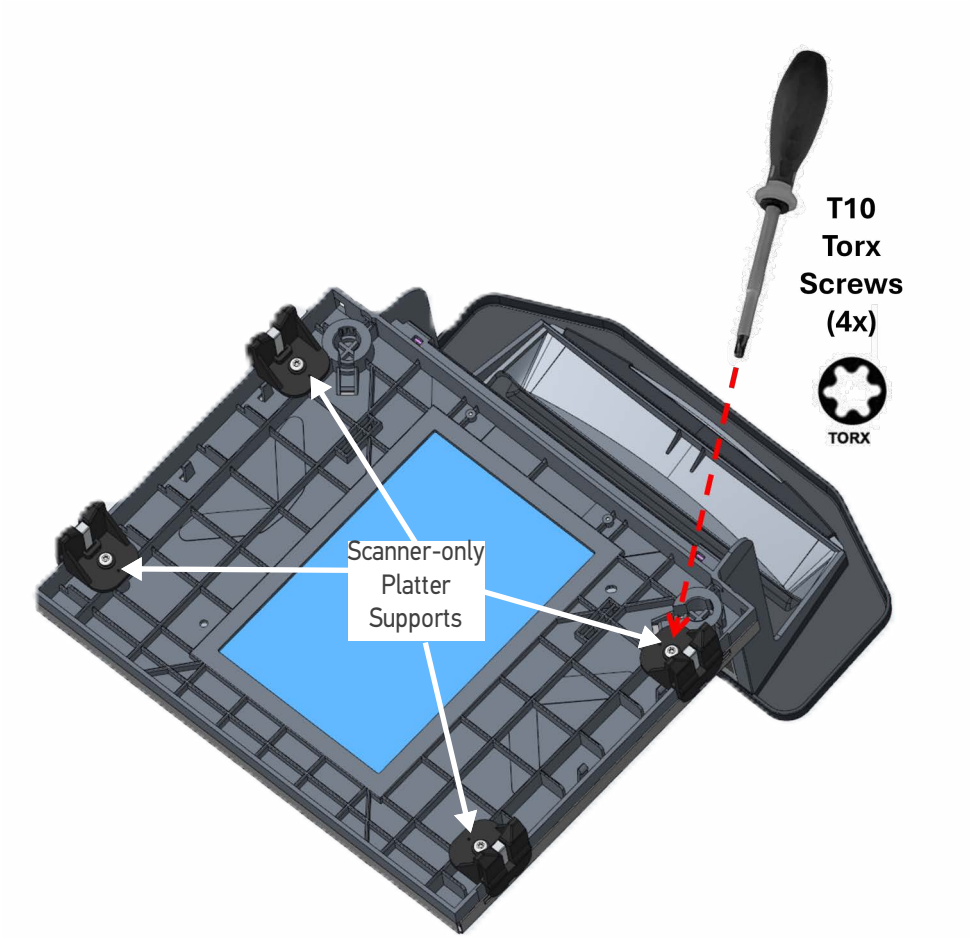
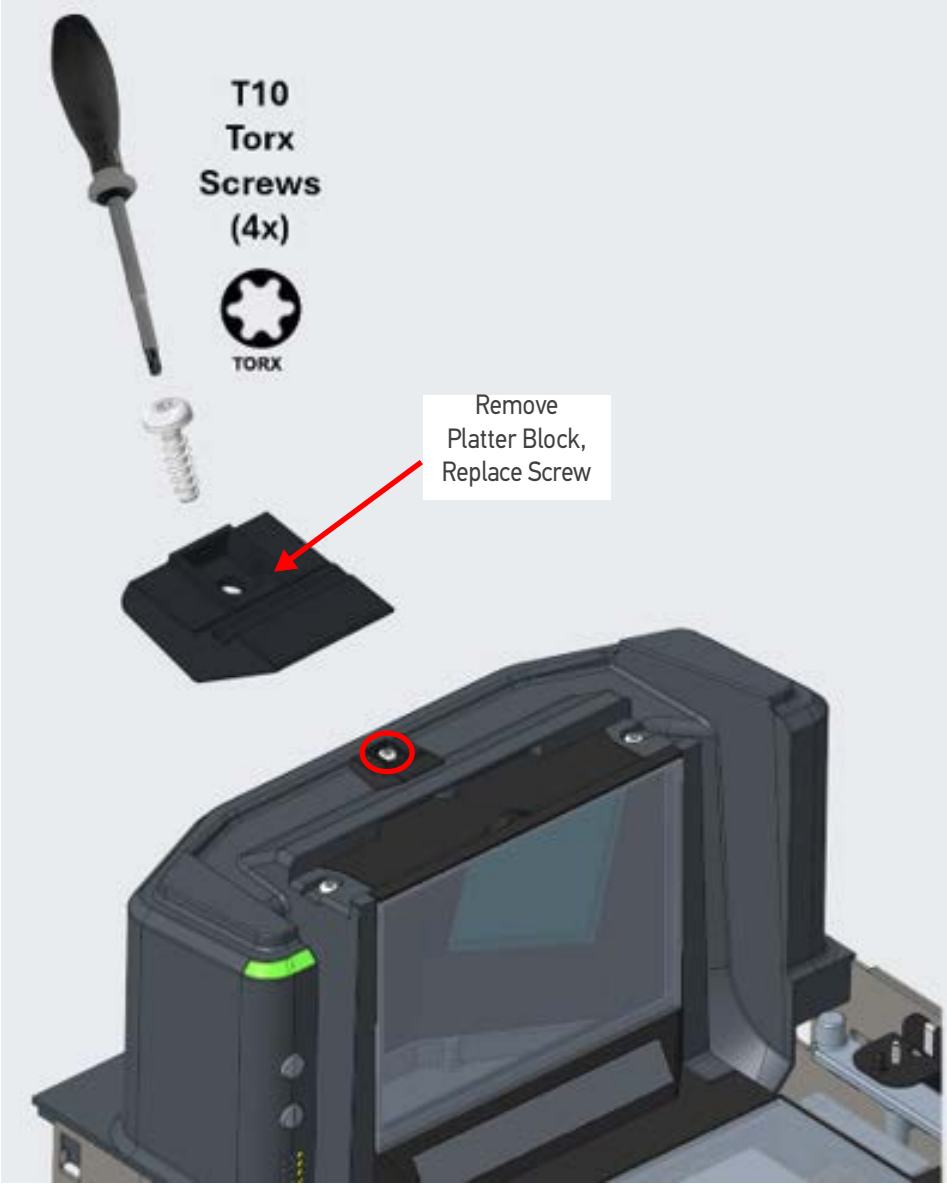
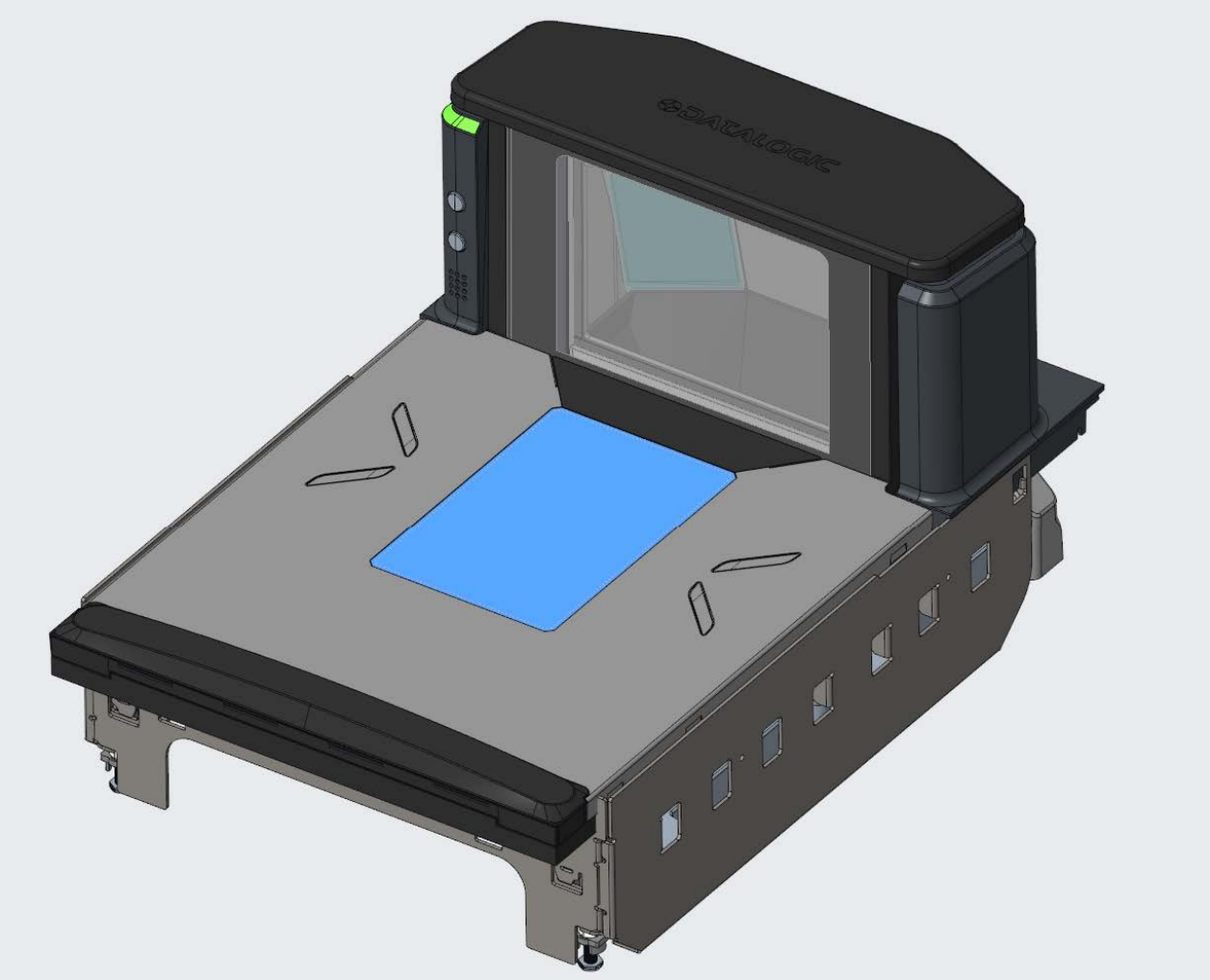


Figure 2. Removing the Platter Block

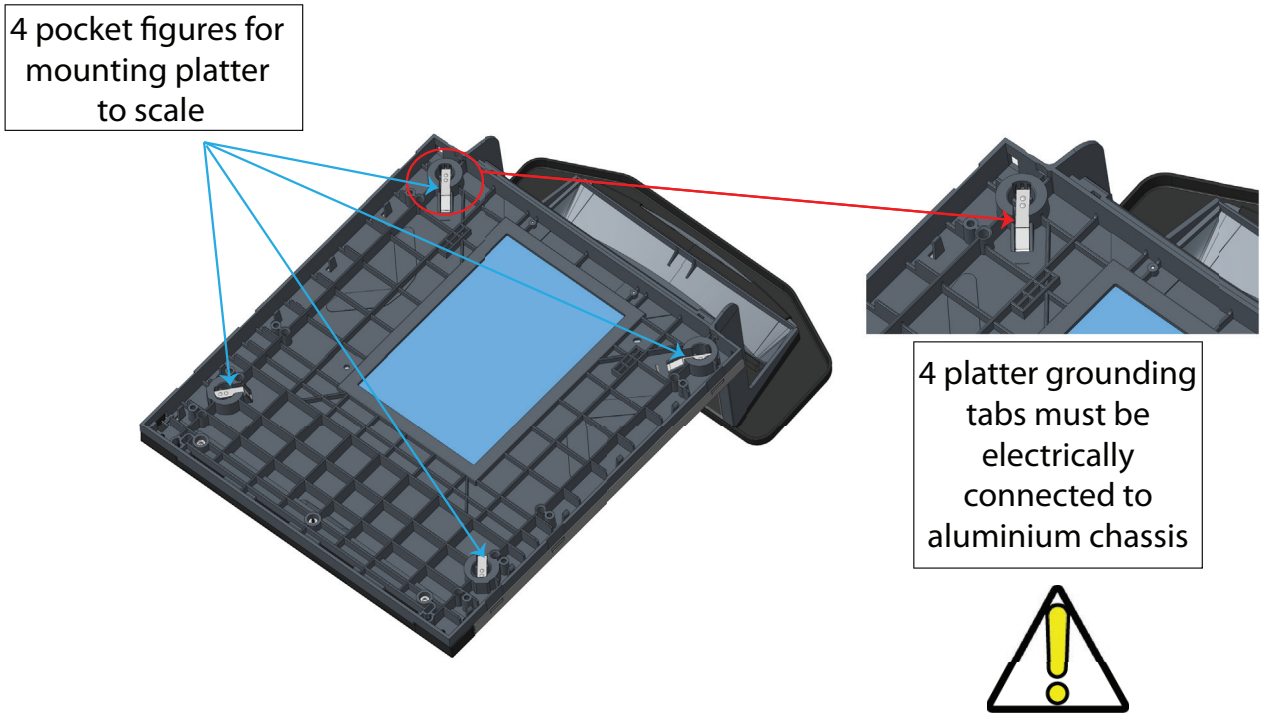


APPENDIX B
ILLUSTRATIONS

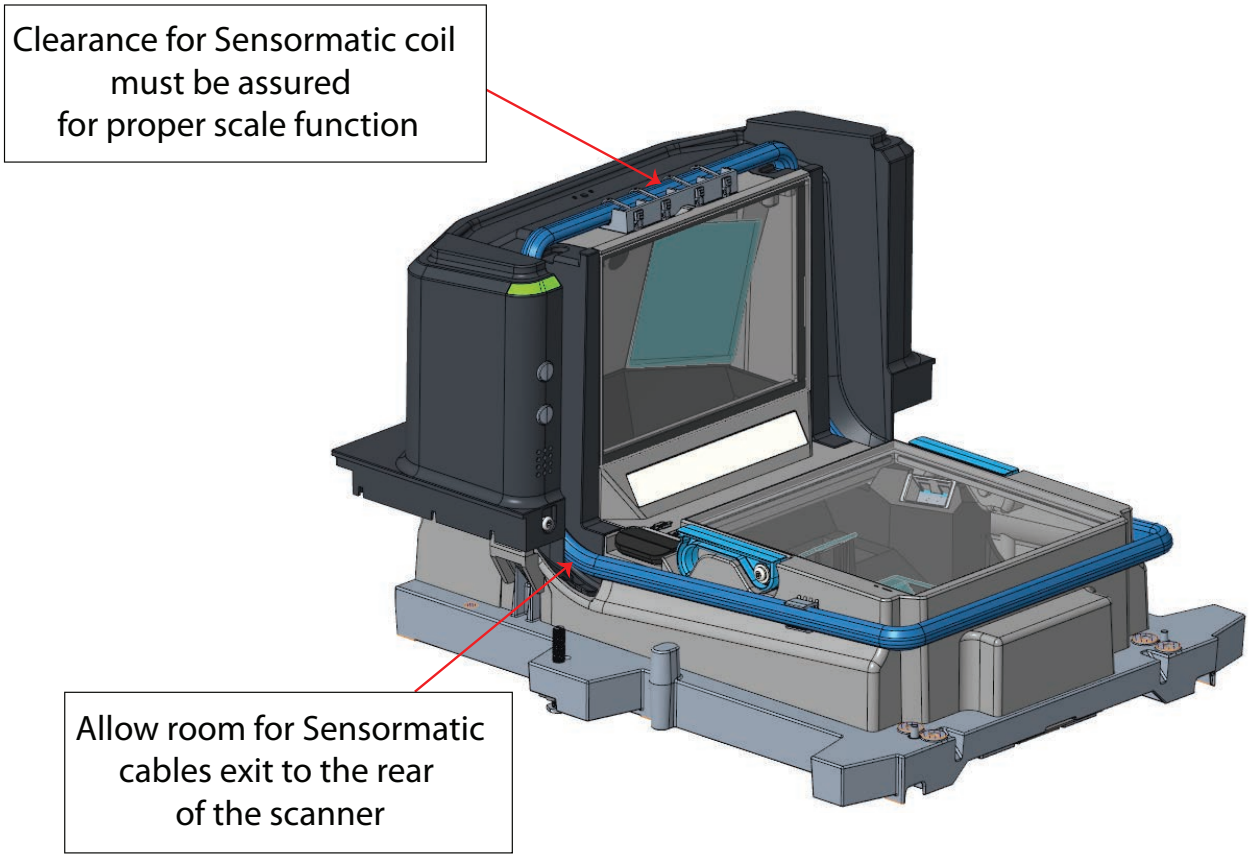
MAGELLAN 9550I ADAPTIVE SCALE INTEGRATION



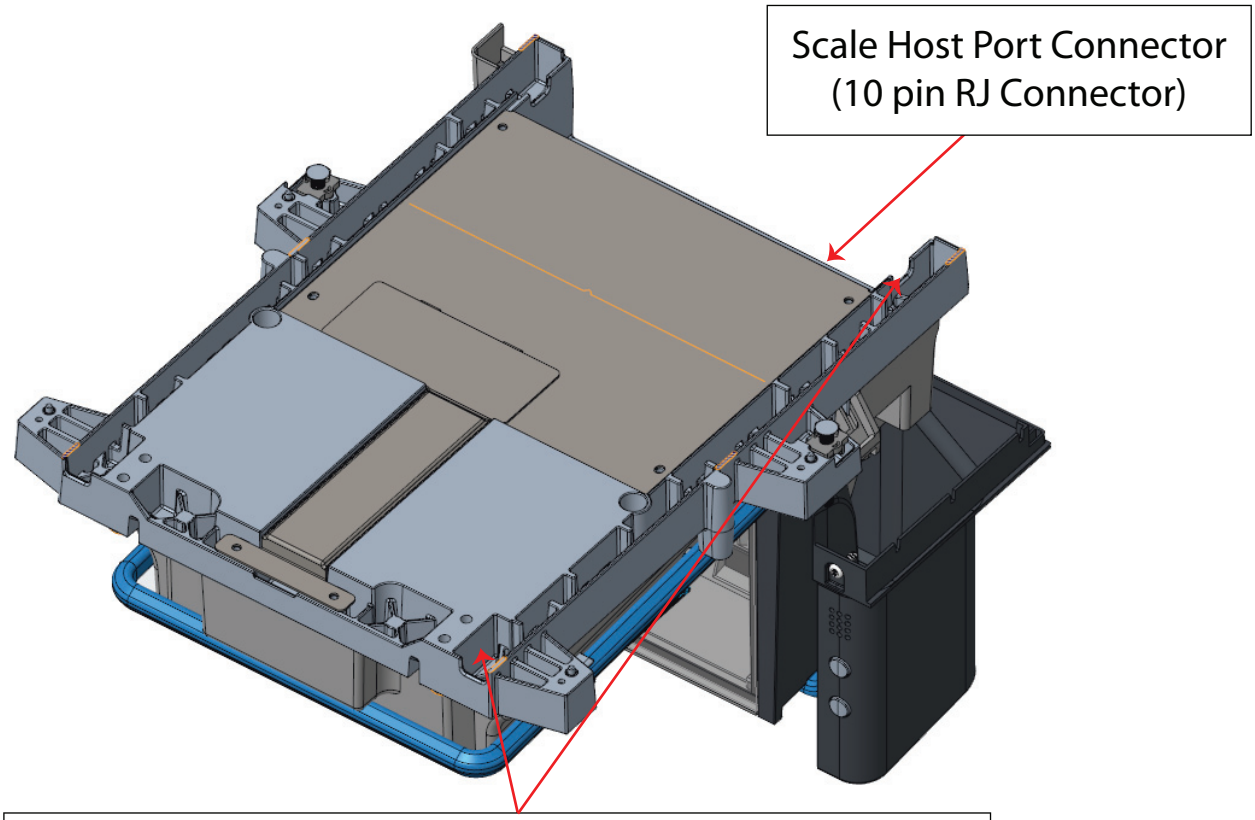
Platter Support Mounting Points and Grounding Tabs



Sensormatic Coil

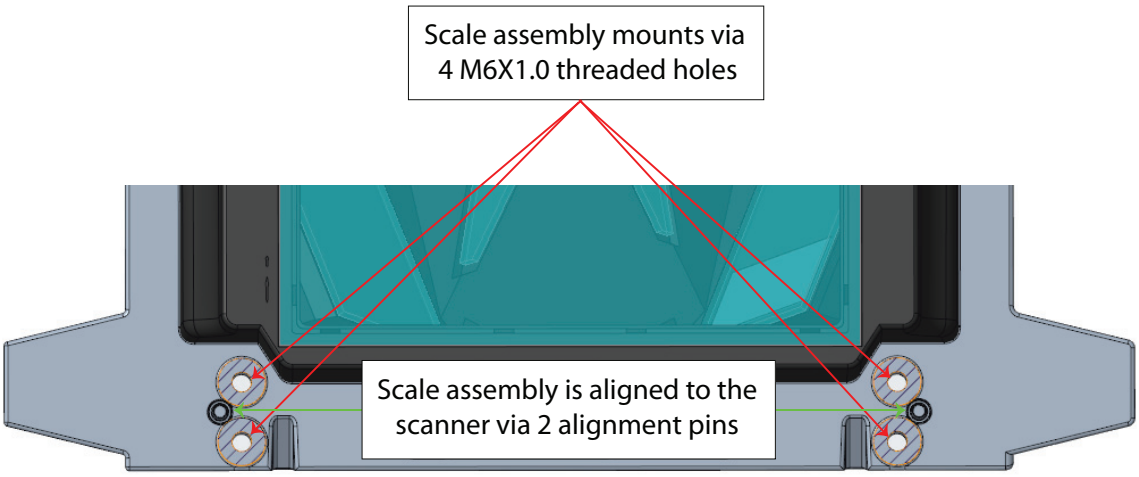


Cable Routing



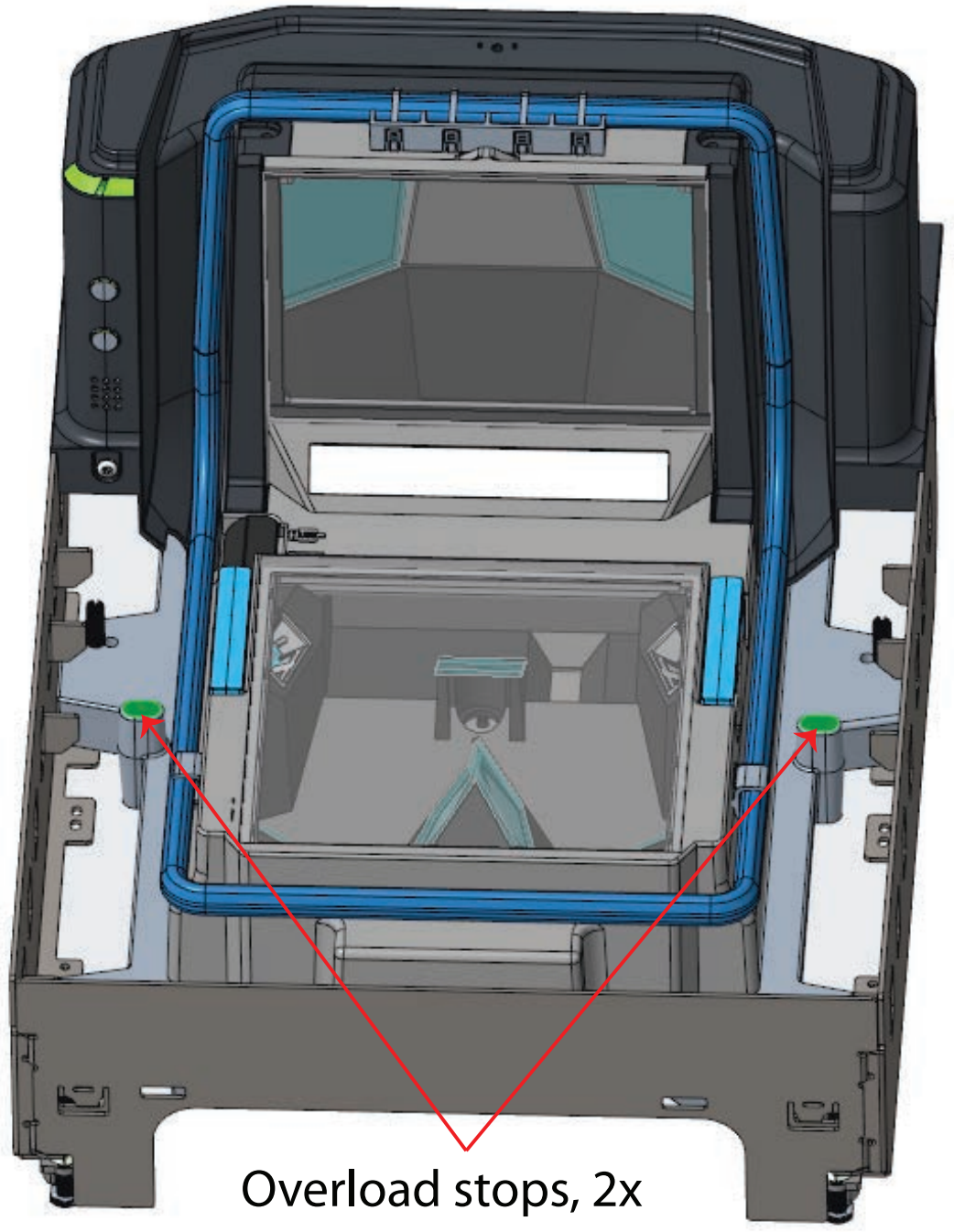
Routing features provided for adaptive scale cable to the scale host port connector (10 pin RJ Connector) shown

Scale Mounting Features



NOTE: Ensure scale assembly is mounted to a proper torque, as per the scale manufacturers requirements.

Load Stops



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