## BALANCE SYSTEM™ SD

### PARTS AND ASSEMBLY ILLUSTRATIONS

<table>
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<tr>
<th>Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>950-440</td>
<td>System, Balance SD, 115 VAC 15.6” display</td>
</tr>
<tr>
<td>950-441</td>
<td>System, Balance SD, 230 VAC 15.6” display</td>
</tr>
<tr>
<td>950-444</td>
<td>System, Balance SD, 100 VAC 15.6” display</td>
</tr>
<tr>
<td>950-450</td>
<td>Optional FreeSway Handles</td>
</tr>
</tbody>
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**Image Description:**
- The image shows a Balance System™ SD device with a 15.6” display.
- The device appears to be designed for balance training.

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**Footer Information:**
- Biodex Medical Systems, Inc.
- 20 Lamhey Road, Shirley, New York, 11967-4784, Tel: 800-224-6539 (ext. 631-924-9000), Fax: 631-924-9241, Email: info@biodex.com, www.biodex.com

**FN:** 20-126-CJR
BALANCE SYSTEM™ SD (version 4.x)

This document provides the parts and assembly illustrations and safety information for the Balance System SD.

Additional information and resources are available upon request or directly from the Biodex website: www.biodex.com/balance.

Here, the user can find information from compliance to clinical support, and if the desired information is not found, Biodex can be contacted directly at supportservices@biodex.com.

Thank you,

Biodex Medical Systems, Inc.

Contact information

Manufactured by:

Biodex Medical Systems, Inc.
20 Ramsey Road, Shirley, New York, 11967-4704
Tel: 800-224-6339 (Int’l 631-924-9000)
Fax: 631-924-8355
email: supportservices@biodex.com
www.biodex.com
Definition of Symbols

The following symbols and their associated definitions are used and implied throughout this manual.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Definition</th>
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<td><img src="image1.png" alt="Image" /></td>
<td>Carefully read these instructions prior to use</td>
</tr>
<tr>
<td><img src="image2.png" alt="Image" /></td>
<td>Operating Instructions</td>
</tr>
<tr>
<td><img src="image3.png" alt="Image" /></td>
<td>Caution</td>
</tr>
<tr>
<td><img src="image4.png" alt="Image" /></td>
<td>General Warning</td>
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<td><img src="image5.png" alt="Image" /></td>
<td>General Mandatory Action</td>
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<td><img src="image6.png" alt="Image" /></td>
<td>Dangerous Voltage</td>
</tr>
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<td><img src="image7.png" alt="Image" /></td>
<td>“On” Power</td>
</tr>
<tr>
<td><img src="image8.png" alt="Image" /></td>
<td>“Off” Power</td>
</tr>
<tr>
<td><img src="image9.png" alt="Image" /></td>
<td>Pinch Point</td>
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<tr>
<td><img src="image10.png" alt="Image" /></td>
<td>Earth (ground)</td>
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<tr>
<td><img src="image11.png" alt="Image" /></td>
<td>Alternating Current</td>
</tr>
<tr>
<td><img src="image12.png" alt="Image" /></td>
<td>Fuse</td>
</tr>
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<td><img src="image13.png" alt="Image" /></td>
<td>USB Connector/Cable</td>
</tr>
<tr>
<td><img src="image14.png" alt="Image" /></td>
<td>Non-Ionizing Electromagnetic Radiation</td>
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<td><img src="image15.png" alt="Image" /></td>
<td>Waste in Electrical Equipment</td>
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<tr>
<td><img src="image16.png" alt="Image" /></td>
<td>Disposal Classification and Identification of Equipment</td>
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<td><img src="image17.png" alt="Image" /></td>
<td>Date of Manufacture</td>
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<td><img src="image18.png" alt="Image" /></td>
<td>Manufactured By</td>
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<tr>
<td><img src="image19.png" alt="Image" /></td>
<td>Type B Applied Part</td>
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WARNINGS AND CAUTIONS

**CAUTION:** Do not modify this equipment without authorization from the manufacturer. Unauthorized modifications to this system are not permitted and void the manufacturer’s warranty. Unauthorized modification might result in a hazard to the user and/or patient.

**IMPORTANT SAFETY INFORMATION**

Read the entire operation manual. Failure to read the manual might result in user error or inaccurate data. Save all documents for reference.

**WARNING**

- Allow only qualified, trained personnel to operate or service this system.
- Do not use this system in a manner other than specified in this manual. If the equipment is used in a non-specified manner, the protection provided by the equipment might be impaired and results could be compromised.

**WARNING:** Never leave patient unattended.

This medical electrical equipment requires special precautions for EMC and must be installed and used according to EMC information located on the Biodex website (www.biodex.com).

**WARNING:** Only use approved power supplies.

**CAUTION:** Operation for: 115–230 VAC, 50/60 Hz.

**CAUTION:** To avoid risk of electric shock, this equipment must be connected only to supply mains with protective earth.

**CAUTION:** The plug is considered the method of disconnecting the system from main power. Do not place the system in a position where the plug cannot be reached quickly.

**CAUTION:** The system is intended to remain in one location during operation. To relocate the system, the system is disconnected from power source. One person can move the system. Use the wheels to move the system.

**WARNING:** Connecting electrical equipment to a multiple socket outlet (MSO) effectively leads to creating an ME SYSTEM, and can result in a reduced level of safety.

**User Capacity:** 60 lb (27 kg) – 400 lb (181 kg)

**Operating Conditions**

- Temperature: 15° C to 30° C (60° F to 86° F).
- Humidity Range: 30% to 75% (non-condensing).
- Atmospheric Pressure: 70kpa (10psi) to 106kpa (15psi).

**Storage Conditions**

- Temperature: -20° C to 60° C (-4° F to 140° F).
- Humidity Range: 10% to 100%.
- Atmospheric Pressure: 50kpa to 101kpa (7psi to 15psi)

**Water Resistance Rating:** IPX0
ASSY, DISPLAY GAS SPRING
ASSYDISCSPRING950-440-A160-A

1. C14421 GAS SPRING, 175MM STROKE, DIA 15 TUBE, DIA 6MM ROD, 133 N FORCE, NO END FITTINGS 1 REQ'D

2. 950-440-M391 BLOCK, GAS SPRING PULLEY 1 REQ'D
C08001 LOCTITE, BLUE A/R

3. C1211 SCREW, BTN HD, SOC, 10-32 X .25", SST 1 REQ'D
C08001 LOCTITE, BLUE A/R

4. C14420 PULLEY, 3/64 WIRE ROPE, 1.06 OD X .187 ID X .25 W, ACETAL 1 REQ'D

5. 950-440-M398 CABLE, GAS SPRING 1 REQ'D

ASSY, CARRIAGE GAS SPRING
ASSYCARRGSPRING950-440-A165-A

1. C14422 GAS SPRING, 140mm STRK, 125N, DIA 6mm ROD, NO END FITTINGS 1 REQ'D

2. C14420 PULLEY, 3/64 WIRE ROPE, 1.06 OD X .187 ID X .25 W, ACETAL 1 REQ'D

3. 950-440-M398 CABLE, GAS SPRING 1 REQ'D
C1218 PIN, DOWEL, .187 X .50 LG, ALLOY STL. 1 REQ'D

4. 950-440-M391 BLOCK, GAS SPRING PULLEY 1 REQ'D
C08001 LOCTITE, BLUE A/R
ASSY, HANDLE
ASSYHANDLE950-440-A180-A

1. 950-440-W230 WELDMENT, HANDLE 1 REQ'D
2. 950-440-M393 COLLAR, THREADED HANDLE 1 REQ'D
3. C11730 GREASE, SUPER LUBE A/R
4. C14409 RETAINING RING, 1.125 DIA, EXTERNAL INVERTED 1 REQ'D
5. C13945 FOAM GRIP, 1.44 ID, 10" LONG, BLK, 1 REQ'D

ITEM '3' C11730 ON THREADS
assy, back caster cover

assybackcastercover950-440-a115-d

c10003 bushing, strain relief 1 req'd
note: cable extend 11" pass strain relief

950-440-w250 1 weldment, back caster cover 1 req'd

950-440-e728 cable, circuit breaker 1 req'd

950-440-l615 label, circuit breaker 1 req'd

c14438 circuit breaker, thermal, 16 amp, n28 series 1 req'd

co9415 label, "attention" (yel triangle w/black !) 1 req'd

c09422 screw, flt hd phil, #4-40 x .5, 90deg, zip 2 req'd

950-440-e730 cable, printer power 1 req'd

950-440-l620 label, printer power 1 req'd

950-440-l607 label, warning - shut down 3c 1 req'd

for 950-440-a115 assy, back cover (120)
950-300-e709 cord power
for 950-441-a115 assy, back cover (230)
950-302-e712 1 req'd
ASSY, TOOLKIT

ASSY TOOLKIT 950-440-A200-A

1 950-440-M399 WRENCH, TOOL KIT 1 REQ'D

3 C14437 HEX KEY, 7/32 HEX X 4.9" LG, L-BALL DRV'R, BLK-OX 1 REQ'D

2 C11761 MAGNETIC STRIP, FLEXIBLE, W/ADH, .5W 2 X 4.5" REQ'D