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ENGLISH (EN)



Software Version



2017-05

5400-052-700-EN Rev-D

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1 Introduction

This manual contains information intended to ensure the safe, effective, and compliant use of this product.

Keep and consult this manual as necessary.

1.1 Audience

This manual is intended for use by in-service trainers, physicians, nurses, surgical assistants, and biomedical equipment technicians.

1.2 Conventions

The following conventions are used in this manual:

- A WARNING highlights a safety-related issue. ALWAYS comply with this information to prevent patient and/or healthcare staff injury.
- A CAUTION highlights a product reliability issue. ALWAYS comply with this information to prevent product damage.
- A NOTE supplements and/or clarifies procedural information.

1.3 Contact Information

For additional information, including safety information, in-service training, or current literature, contact a Stryker Sales Representative or call Stryker Customer Service at 1-269-323-7700 or 1-800-550-7836.

Outside the US, contact the nearest Stryker subsidiary.

2 Indications For Use

The Stryker Consolidated Operating Room Equipment (CORE) 2 Console is intended for use in the cutting, drilling, reaming, decorticating, shaping, and smoothing of bone, bone cement and teeth in a variety of surgical procedures, including but not limited to orthopedic, dental, ENT (Ear, Nose, Throat), neuro, spine, and endoscopic applications. The console is also usable in the placement or cutting of screws, metal, wires, pins, and other fixation devices.

3 Contraindications

None known.

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4 Definitions

The symbols located on the equipment and/or labeling are defined in this section or in the *Symbol Definition Chart*. Refer to the *Symbol Definition Chart* REF 0036-716-000 supplied with the console.

SYMBOL	DEFINITION
1 тоисн	1Touch
	Accelerate
\sim	Alternating Current
-	Back
	Brake
-;o;-	Brightness
×	Cancel
\bigotimes	Cancel Initial Prime
\checkmark	Confirm
	Console
	Control Options
5	Control Permissions
	Сору
+	Create
	Delete
	Direct Current
	Email
	Edit
\bigtriangledown	Equipotential
(!)	Error
	Export
FIXED	Fixed

SYMBOL	DEFINITION
	Flush
1	Footswitch 1
2	Footswitch 2
FWD	Forward
	Fuse
ţŎ;	General Settings
	General Warning Sign
	Handpiece
	Handswitch
	Home
ſ	Import
•	Initial Prime
•	Irrigation
X	Keyboard - Backspace
$\overline{\nabla}$	Keyboard - Capital Letter OFF
<u></u>	Keyboard - Capital Letter ON
	Keyboard - Spacebar
\$ 0	Language
X	Loading
<u>mL</u> min	Milliliters per Minute
	Motor
	Motor Options
¢.	Motor Settings
	Name
•	Next

SYMBOL	DEFINITION
OSC	Oscillating
	Phone
Ċ	Power
1	Preset/Representative
ter	Priming
	Quick Access
(Refer to Instruction Manual/Booklet
stryker	Rep Info
D	Reset
REV	Reverse
<	Roll-out Left
>	Roll-out Right
	Save
	Scroll Down
	Scroll Up
í	System Information
	System Settings
Ŏ	Time Based Turn
τ	I.D. Touch (Torque)
Θ	Value - Decrease
Ð	Value - Increase
~∽\ VAR	Variable
	Volume

5 Supplied Components

This table identifies supplied components with the purchase of REF 5400-052-000.

COMPONENT	REF
CORE 2 Console	5400-052-010
Console Power Cord	0996-851-XXX
Symbol Definition Chart	0036-716-000
Software License Addendum	5400-052-704
Instructions For Use (IFU)	5400-052-700

NOTES:

- If any component is missing or damaged, contact Stryker for assistance.
- For additional power cord information, see Appendix E: Power Cords.

6 For Use With

WARNING: Only use Stryker-approved equipment, unless otherwise specified.

This table identifies Stryker-approved equipment intended to be used with the console to obtain a safe combination.

NOTE: This equipment is sold separately and may not be available in all markets. To order equipment, contact Stryker.

EQUIPMENT	REF			
Accessories				
Standard Cord (Keyed)	5100-004-000			
Irrigation Pole	5100-050-028			
CORE Heavy Duty Power Pack	5400-500-000			
Mill Cable	5400-704-000			
ES6 Handpiece Cord	6292-004-000			
Irrigation Cassettes				
CORE ESSx/Hummer Irrigation	5290-075-000			
Cassette				
Disposable Irrigation Cassette	5400-050-001			
Dual Disposable Irrigation Cassette	5400-050-002			
Handswitches				
TPS Universal Handswitch	5100-009-000			
CORE Universal Handswitch	5400-009-000			
CORE UHT Drill Handswitch	5400-111-000			
CORE Saber Handswitch	5400-121-000			
CORE Sumex Handswitch	5400-131-000			
RemB Electric Handswitch	6400-009-000			

EQUIPMENT	REF
Footswitches	
TPS Two-Pedal	0275-701-400
TPS Uni-Directional Footswitch	5100-007-000
TPS Footswitch	5100-008-000
NSE Footswitch	5400-007-000
Motors	
TPS Small Joint Shaver	0275-601-500
Formula Shaver Foot Control	0375-701-500
Formula Shaver Hand Control	0375-704-500
Formula 180	0375-708-500
TPS Micro Oscillating Saw	5100-031-000
TPS Micro Driver	5100-088-000
TPS XL Oscillating Saw	5100-131-000
Hummer 4 Handpiece	5290-601-100
CORE ESSx Handpiece	5290-601-200
CORE Micro Drill	5400-015-000
CORE Oscillating Saw	5400-031-000
CORE Sagittal Saw	5400-034-000
CORE Reciprocating Saw	5400-037-000
CORE Universal Driver	5400-099-000
CORE U-Drill	5400-100-000
CORE UHT Drill	5400-110-000
CORE Saber Drill	5400-120-000
CORE Modified Saber Drill	5400-120-000S1
CORE Sumex Drill	5400-130-000
CORE Sumex MS1	5400-130-000S1
CORE Impaction Drill	5400-300-000
CORE Mill	5400-700-000
Pi Drive Motor	5407-100-000
Pi Drive Plus Motor	5407-300-000
S2 Drill	5450-400-000
ES6 Single Trigger Rotary Handpiece	6293-000-000
ES6 Dual Trigger Rotary Handpiece	6295-000-000
ES6 Reciprocating Saw	6296-000-000
ES6 Sternum Saw	6297-000-000
ES6 Sagittal Saw	6298-000-000
ES6 Precision Oscillating Tip Saw	6299-000-000
RemB Electric Micro Drill	6400-015-000
RemB Electric Oscillating Saw	6400-031-000
RemB Electric Sagittal Saw	6400-034-000
RemB Electric Reciprocating Saw	6400-037-000
RemB Electric Wiredriver	6400-062-000
RemB Electric Universal Driver	6400-099-000

7 Safety Directives

7.1 General Warnings

WARNINGS:

- ALWAYS be familiar with the Instructions For Use and proper operation of this equipment before use. To request in-service training, contact Stryker.
- ALWAYS consult the Instructions For Use that accompanies motors, footswitches, and attachments for product specific duty cycles and additional information.
- Only healthcare professionals trained and experienced in the use of this medical device should operate this equipment.
- Healthcare professionals should be thoroughly familiar with the Instructions For Use, handling characteristics, and the indicated and intended uses of this equipment. Contact Stryker for in-service training.
- The healthcare professional performing any procedure is responsible for determining the appropriateness of this equipment and the specific technique used for each patient. Stryker, as a manufacturer, DOES NOT recommend surgical procedure or technique.
- ALWAYS ensure the console is placed on a sturdy, flat surface near a hospital-grade power outlet and all connections (front and rear) are easily accessible.
- Upon initial receipt and before each use, ALWAYS inspect equipment for damage. DO NOT use any equipment if damage is apparent.
- ALWAYS clean and disinfect the equipment as indicated upon initial receipt and before each use.
 Failure to comply may cause infection and result in patient and/or healthcare staff injury.
- ALWAYS consult the Instructions For Use that accompanies motors, footswitches, and attachments for product specific cleaning requirements.
- DO NOT touch the screen with any sharp or hard object. Failure to comply may cause breakage and result in healthcare staff and/or patient injury.
- DO NOT disassemble, modify, service, or repair this equipment when using this equipment with a patient.
- DO NOT disassemble, modify, service, or repair any equipment without the authorization of the manufacturer. For assistance, contact Stryker.
- ALWAYS operate this equipment within the specified environmental condition values (Appendix I: Specifications).

- ALWAYS follow the recommended duty cycle to prevent this equipment from overheating.
- DO NOT stack or place equipment adjacent to the console. If such a configuration is necessary, observe the configuration to ensure that electromagnetic interference does not degrade performance.
- Take special precautions regarding electromagnetic compatibility (EMC) when using medical electrical equipment like the console. Portable and mobile radio frequency (RF) communications equipment can affect the function of the console.
- DO NOT use the console in an MRI environment. Using the console in an MRI environment could affect the function of the console.
- ALWAYS ensure footswitch placement is in a secure area where inadvertent activation is not possible.
- ALWAYS select the correct irrigation flow rate based on the surgical procedure and/or handpiece requirements to prevent excessive or insufficient irrigation flow.
 Failure to comply may limit the view of the surgical site and result in patient and/or healthcare staff injury.
- ALWAYS select the correct attachment/reducer when selecting the motor setting to prevent excessive or insufficient motor speed. Failure to comply may cause incorrect information to be displayed and result in patient and/or healthcare staff injury.
- DO NOT place the console within the sterile field.

7.2 Electrical Warnings

WARNINGS:

- ALWAYS connect the console to a hospital-grade, power outlet with protective earth (ground) to avoid the risk of electrical shock.
- Electrical power is present when the console is in standby mode. To completely remove power, disconnect the power cord from either the console or the hospital-grade, power outlet with protective earth (ground) to avoid the risk of electrical shock.
- If power is lost, some of the console's adjustable settings, such as the motor to footswitch assignment, footswitch options, and motor operating modes, will revert to the default configuration or the last selected preset. After power is restored, verify console settings.

8 System Overview

The CORE 2 Console has three handpiece ports, two footswitch ports, and one irrigation cassette port. The console supplies power to a variety of devices including small and large bone drills, small and large bone saws, small and large bone drivers, large joint and small joint shavers, ENT shavers, bone mills, and various footswitches. Additionally, the console supports the use of irrigation. For a complete list of equipment that can be used with the console, see Section 6.

When a device is connected to the console, the console automatically detects the connected device and will only display options and settings that are available for the connected device. The touch screen provides visual output and serves as an input device when navigating the user interface. The internal speaker provides audio output during operation. See Appendix B: Audio Output for additional information.

The console can store user presets and representative information internally. The presets can be exported from one console and imported to another console with the use of a USB data storage device (Section 11.6.5).



Figure 1 – System Block Diagram

9 Hardware Features



Figure 2 – Console (Front View)

Α	Power Button		Е	Irrigation Cassette Port
В	Touch Screen	_	F	Footswitch Ports (2)
С	Stacking Inserts (4)	-	G	Motor Ports (3)
D	Stacking Feet (4)	-		

Figure 3 – Console (Rear View)

н	Power Cord	 L	Specification Label
I	Pole Bracket	М	Fuse Holder
J	Ethernet Port	 Ν	Power Receptacle
К	USB Port	 0	Equipotential Lug

10 Screens and Menu Tabs



Figure 4 – Screens and Menu Tabs Map

11 Instructions

WARNING: Before using this equipment, or any compatible equipment, read and understand the Instructions For Use. Pay particular attention to safety information. ALWAYS become familiar with the equipment before use.

11.1 Before the Procedure

- 1. Verify the console is placed on a sturdy, flat surface.
- 2. Verify the console is not within the sterile field.
- 3. Verify the following items are connected; connect as necessary (Figure 5):
 - (Optional) Equipotential cable
 - Power cord
- 4. Verify the equipment is clean and not damaged.
- 5. Connect the following devices as necessary:
 - Motor(s) (Figure 6)
 - Footswitch(es) (Figure 7)
- 6. Press 🕐 to power the console on.
- 7. (Optional) Prepare the console for irrigation as follows:
 - If required, install an irrigation pole into the pole bracket on the rear of the console (Figure 5).
 - 7.2. Insert an irrigation cassette (Figure 8).
 - 7.3. Attach the irrigation clips onto the motor and connect the tubing to the irrigation bag.
 - 7.4. Prime the irrigation cassette (Section 11.6.6.1).
- 8. Manage presets as necessary (Section 11.5).
- 9. Manage system settings as necessary (Section 11.6).

11.2 During the Procedure

- Connect and disconnect devices as necessary.
- If using irrigation, flush irrigation tubing as necessary (Section 11.6.6.2).
- Refer to the following sections for guidance during the procedure as necessary:
 - Section 11.4 Home Screen Instructions
 - Section 11.5 Preset Instructions
 - Section 11.6 System Settings Instructions

11.3 After the Procedure

- 1. Remove power from the console as follows:
 - 1.1. Press 🕐 to set the console in standby mode.

CAUTION: Some power cords have a locking mechanism, press the colored tab prior to disconnection.

- 1.2. Disconnect the power cord.
- 1.3. If used, disconnect the equipotential cable.
- 2. If irrigation was used, perform the following:
 - 2.1. Detach the irrigation clips from the motor and disconnect the tubing from the irrigation bag.
 - 2.2. Remove the irrigation cassette (Figure 9).
- 3. Disconnect the following devices as necessary:
 - Motor(s) (Figure 6)
 - Footswitch(es) (Figure 7)
- 4. Clean and disinfect the console (Section 12).
- 5. Inspect the equipment for damage.



Figure 5 – Console (Rear View)



Figure 6 - To Connect/Disconnect a Motor



Figure 8 – To Insert an Irrigation Cassette



Figure 7 – To Connect/Disconnect a Footswitch



Figure 9 - To Remove an Irrigation Cassette

11.4 Home Screen Instructions



Figure 10 – Home Screen

A	 Navigation Bar Area – Provides navigational buttons and displays the active preset. NOTE: The reset button will appear within this area if the active preset has been modified. Press the reset button to undo changes. 	D	Motor Settings Value Area – Displays the connected motor(s) name and value setting. Touch the motor value to access the slider bar to adjust the motor value setting.
В	Footswitch Assignment Area – Provides a graphical representation of the current footswitch assignment. These buttons can be touched to toggle footswitch assignment.	E	Decrease/Increase Area – From here, the user can use the decrease and increase buttons to adjust the motor value setting.
С	Quick Access Area – Allows the user to set features such as direction, irrigation, and mode on the Home screen. These buttons can be set to accommodate the user's preference		

11.4.1 Manage Connected Devices

(Section 11.6.7.5).

NOTE: When navigating the software, touch **(Home)** to return to the Home screen.

- 1. Access the Home screen.
- 2. For each connected device, set the following as necessary (Figure 10):
 - Motor settings value
 - Footswitch assignment
 - Quick access

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11.4.2 Access Other Screens

NOTE: The Home screen is where most user interaction will occur and allows access to other screens.

From the Home screen:

- Touch L (Preset) to access the preset screen.
- Touch is (Settings) to access the system settings screen.