


































BUTTON	NAME	FUNCTION
	SPACE	Touch to enter a space between two characters. See <i>Section 4.2.2.3 Data Entry Screen</i> .
	SYNC	Indicates SYNC mode is ON. See <i>Table 22 SYNC (synchronize) Mode of Operation</i> . See <i>Section 16 Glossary</i> .
		Indicates the SYNC mode is OFF. Touch to turn ON.
	SYSTEM INFO	Touch to access the system information screen. See <i>Section 6.1.7 To View System Information</i> .
	VAR	Indicates VAR mode is ON. See <i>Table 21 VAR (variable) Mode of Operation</i> . See <i>Section 16 Glossary</i> .
		Indicates the VAR mode is OFF. Touch and slide to enable.
	VOLUME	Touch to access the VOLUME adjustment screen. See <i>Section 6.1.3.2 To Adjust Volume</i> .
	WIRELESS	Touch to access the WIRELESS CONNECTION screen. See <i>Section 6.1.5 To Pair a Wireless Foot Pedal</i> . See <i>Section 16 Glossary</i> .
		Install a wireless receiver into the console foot pedal port to enable a wireless foot pedal connection.
	WIRELESS SETUP	Touch to access the WIRELESS SETUP screens. See <i>Section 6.2.2 To Connect the Foot Pedal</i> .

5 Definitions

The *Definitions* section defines product markings, symbols, colors, audible indicators, and abbreviations located on the equipment and/or labeling. See the *Symbol Definition Chart REF 0036-716-000* supplied with the equipment for additional definitions.

Table 3 – Console Product Markings

	Connector Alignment Mark (red): indicates how to orient and install a cable connector into a console port. See <i>Section 4.1.1 Console Front Panel</i> .
	Cassette Status: identifies the connection status of the irrigation suction cassette (color-coded). See <i>Table 13 Console Color Indicators</i> .
	Display Screen Brightness: indicates the brightness adjustment of the display screen. See <i>Section 6.1.3.1 To Adjust Brightness</i> .
	E-mail: indicates where to enter the e-mail address of the Stryker sales representative. See <i>Section 6.1.3.3 To Manage CONTACT Info</i> .
	Error: identifies an error message pop-up. See <i>Section 11 Pop-up Codes, Messages, and Corrective Actions</i> .
	Foot Pedal: identifies the foot pedal port and indicates the connection status (color-coded) on the display screen. See <i>Section 4.1.1 Console Front Panel</i> .
	Hand Controller: identifies the hand controller port. See <i>Section 4.1.1 Console Front Panel</i> .
	Handpiece: identifies the handpiece port. See <i>Section 4.1.1 Console Front Panel</i> .
	Handpiece Status: indicates the handpiece connection status (color-coded) on the display screen. See <i>Table 13 Console Color Indicators</i> .
	Tip Status: indicates the connection status of the tip (color-coded) on the display screen. See <i>Table 13 Console Color Indicators</i> .
	Irrigation: identifies the irrigation fluid flow rate control on the HOME screen. See <i>Section 4.2.2.1 Home/Presets Edit Screen</i> .

	Irrigation Suction Cassette: identifies the suction irrigation cassette receptacle. See <i>Section 4.1.1 Console Front Panel</i> .
	Linked Brightness Adjustment: indicates the brightness of the display screen and the port ring indicators are adjusted together.
	Name: indicates where to enter the name of the Stryker sales representative. See <i>Section 6.1.3.3 To Manage CONTACT Info</i> .
	Notification: identifies a notification message pop-up. See <i>Section 4.2.2.7 Pop-ups</i> .
	Percent: identifies unit of measure for power, suction, brightness and volume.
	Phone: indicates where to enter the phone number of the Stryker sales representative. See <i>Section 6.1.3.3 To Manage CONTACT Info</i> .
	Port Ring Indicator Brightness: indicates the brightness adjustment of the port ring indicators. See <i>Section 6.1.3.1 To Adjust Brightness</i> .
	Power: identifies ultrasonic power control on the HOME screen. See <i>Section 4.2.2.1 Home/Presets Edit Screen</i> .
	Pulse Control (optional): identifies Pulse Control on the HOME screen if activated.
	Pulse Control Indicator (1 - 5): indicates the pattern of pulsing.
	Suction: identifies suction (aspiration) control on the HOME screen. See <i>Section 4.2.2.1 Home/Presets Edit Screen</i> .
	Variable Mode Status: indicates the mode status (color-coded) on the HOME screen. See <i>Section 4.2.2.1 Home/Presets Edit Screen</i> .



	Wireless Connecting: indicates the wireless receiver is installed in the console foot pedal port and the wireless foot pedal is CONNECTING to the wireless receiver. See <i>Section 6.1.5 To Pair a Wireless Foot Pedal</i> .
	Wireless Connection Status: indicates the connection status (color-coded) of the wireless foot pedal. See <i>Table 13 Console Color Indicators</i> .

Table 4 – Handpiece Product Mark(s)


	Connector alignment mark (red): indicates how to orient and install the cable connector into a console port. See <i>Section 6.2.3.2 To Connect the Handpiece to the Console (Outside Sterile Field)</i> .
---	--

Table 5 – Tip and Sleeve Product/Packaging Mark(s)




	Confirmed: identifies the correct action. See <i>Section 6.2.3.4 To Install a Tip and Sleeve on the Handpiece</i> .
	Prohibited: identifies an incorrect action.
	Universal Handpiece (red): indicates for use with the Sonopet iQ Universal Angled Handpiece.

Table 6 – Step Torque Wrench Product Mark(s)






	Torque Direction: When tightening a tip onto a handpiece, apply rotational force in the direction of the arrow on the wrench head.
	Wrench Orientation: When installing the wrench head onto the tip flats, make sure the mark on the bottom of the wrench handle faces the distal end of the tip.

Table 7 – Irrigation Suction Cassette Product Mark(s)

	Arrow: identifies the direction of cassette installation into the console receptacle. See <i>Section 6.2.4.2 To Connect the Suction Canister, Cassette, and Irrigation Tubing (Outside Sterile Field)</i> .
	Confirmed: indicates the correct configuration.
	Console: identifies where the cassette is installed.









	Handpiece: identifies where the handpiece tubing connector is installed.
	Irrigation: identifies where the irrigation fluid container tubing with spike is installed.
	PATIENT: identifies the suction tubing connector that connects to the suction canister PATIENT port.
	Prohibited: indicates an incorrect configuration. Indicates do not use.
	Suction Canister: identifies where the suction canister tubing connectors are connected.
	TOP: identifies the top of the cassette and how the cassette is oriented during installation into the console receptacle.
	Universal Angled Handpiece (red): indicates for use with the Sonopet iQ Universal Angled Handpiece.
	VACUUM: identifies the suction tubing connector that connects to the suction canister VACUUM port.

Table 8 – Foot Pedal(s) Product Mark(s)







	Connector alignment mark (red): indicates how to orient and install the cable connector into a console port. See <i>Section 6.2.2 To Connect the Foot Pedal</i> .
	Irrigation Flush: identifies the irrigation flush button that initiates irrigation flow to the tip of the handpiece. See <i>Section 6.2.5 To Fill (Prime) the Irrigation Tubing</i> .
	Locking: identifies the battery compartment door is locked or to show the locked status. See <i>Section 6.1.10.1 To Install or Replace the Batteries (Wireless Advanced Foot Pedal Only)</i> .
	Pair Wireless: identifies the WIRELESS/ON/OFF power switch position that initiates wireless foot pedal pairing. See <i>Section 6.1.5 To Pair a Wireless Foot Pedal</i> .
	Positioning of Batteries: identifies the battery holder and the orientation of the two AA alkaline batteries within the battery holder.
	Unlocking: identifies the battery compartment door is not locked or to show the unlocked status.

Table 9 – Hand Controller Product Mark(s)








	Connector alignment mark (red): indicates how to orient and install the cable connector into a console port. See <i>Section 6.2.6 To Connect the Hand Controller (Optional)</i> .
	Decrease: identifies a decrease adjustment control button. See <i>Section 4.1.8 Hand Controller</i> .
	Increase: identifies an increase adjustment control button.
	Irrigation: identifies irrigation adjustment controls.
	Prime/Flush: identifies the prime or flush button. Irrigation is provided to the tip.
	Suction: identifies suction (aspiration) adjustment controls.
	Ultrasonic Power: identifies ultrasonic power (energy) adjustment controls.

Table 10 – ISO 7000 – Graphical symbols for use on equipment - Registered Symbols


	Open here (3079): identifies where the package is opened and the method of opening it. See <i>Section 6.2.3.3 To Transfer a Tip and Sleeve into the Sterile Field</i> .
---	--

Table 11 – BS EN ISO 7010 Graphical symbols – Safety colors and safety signs – Registered safety signs



	Refer to instruction manual/booklet (M002): indicates the instruction manual/booklet must be read. See <i>Section 4.1.2 Console Back Panel</i> .
	General warning sign (W001): to signify a general warning.

Table 12 – IEC 60417 Graphical symbols for use on equipment








	ON power (5007): indicates connection to the mains power, at least for mains switches or their positions, and all those cases where safety is involved. See <i>Section 4.1.7 Advanced and Wireless Advanced Foot Pedals</i> .
	OFF power (5008): indicates disconnection from the mains power, at least for mains switches or their positions, and all those cases where safety is involved. See <i>Section 4.1.7 Advanced and Wireless Advanced Foot Pedals</i> .
	Stand-by (5009): identifies the switch by means of which part of the equipment is switched on in order to bring it into the stand-by condition, and identifies the control to shift to or to indicate the state of low power consumption. See <i>Section 4.1.1 Console Front Panel</i> .
	Fuse (5016): identifies fuse boxes or their location. See <i>Section 4.1.2 Console Back Panel</i> .
	Protective earth; protective ground (5019): to identify any terminal which is intended for connection to an external conductor for protection against electric shock in case of a fault, or the terminal of a protective earth (ground) electrode. See <i>Section 4.1.2 Console Back Panel</i> .
	Equipotentiality (5021): identifies the terminals which, when connected together, bring the various parts of an equipment or of a system to the same potential, not necessarily being the earth (ground) potential, e.g. for local bonding. For additional information, refer to IEC 60601-1 for medical electrical systems. See <i>Section 4.1.2 Console Back Panel</i> .
	Type CF applied part (5335): located on medical equipment to identify a type CF applied part complying with IEC 60601-1; (C) Cardiac, (F) Floating applied part. See <i>Section 4.1.3 Handpiece</i> .

Table 13 – Console Color Indicators









	Home Screen Workflow (black)
	Confirmation, Compatible Port Ring Connection, Ready For Use, Selected (green)
	Muted Handpiece Power Indicator (yellow)
	No Port Ring Connection (white)
	Notification (light blue)
	On Button Touch (blue)
	Preset Workflow (gray)
	Stand-by Mode, Incompatible Port Ring Connection, Error Status (amber)

Table 14 – Handpiece Color(s)

	Color Ring (red): identifies the Sonopet iQ Universal Angled Handpiece.
---	--

Table 15 – Audible Indicators

EVENT	INDICATOR	DESCRIPTION
Button touch	Button beep	Quick low pitched beep
Task completion	Confirmation chime	Slightly elongated chime
Handpiece activation (See <i>Section 16 Glossary</i> .)	Handpiece power indicator tone	Elongated single tone to indicate ultrasonic power at the tip of the handpiece
Notification message	Notification chime	Two tone ascending beep
Error message	Error chime	High notes, two tone descending beep
Prohibited action	Prohibited action chime	Low notes, two tone descending beep

Table 16 – Abbreviations

B	Bone
C	Celsius (temperature)
CAS	Chemical Abstract Service
cm	centimeters
CMR	Carcinogenic, Mutagenic or Toxic for Reproduction (chemicals classified under European Directive 67/548)
EC	European Community
EMC	Electromagnetic Compatibility
EMI	Electromagnetic Interference
ID	Identification Number
IFU	Instructions for Use
LED	Light Emitting Diode
mmHg	millimeters of Mercury (suction)
mL/min	milliliter per minute (irrigation)
MRI	Magnetic Resonance Imaging
PPE	Personal Protective Equipment
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RF	Radio Frequency
RFID	Radio Frequency Identification
S	Soft including fibrous
SYNC	Synchronize
s	Seconds (time)
U	Universal
VAR	Variable

6 Instructions

6.1 Before First Use

6.1.1 To Unpack and Inspect Components

WARNING: Upon initial receipt and before each use, ALWAYS inspect each component for damage. DO NOT use any equipment if damage is apparent or the inspection criteria are not met. See *Section 8.1 To Inspect the Equipment*.

CAUTION: ALWAYS save the original packaging container for reuse. Failure to comply may result in equipment damage during transport to Stryker Customer Service.

1. Remove all the components from the packaging material.
2. Make sure all of the components are supplied with the console. If any of the components are missing or damaged, contact Stryker Customer Service. See *Section 1.3 Contact Information*.

Table 17 – Components Supplied with Console

COMPONENT	REF
Sonopet iQ Ultrasonic Aspirator Console	5500-050-000
Power Cord (console)	0996-851-XXX; see <i>Section 14.2 Power Cord Specifications (general)</i> .
Irrigation Pole (with hardware)	5100-050-028
Instructions for Use, Sonopet iQ Ultrasonic Aspirator System	5500-050-700(XX)
Symbol Definition Chart	0036-716-000
Software License Addendum	5500-050-706
Sonopet iQ Hand Controller	5500-402-000
Instructions for Use, Sonopet iQ Hand Controller	5500-402-700
Processing Instructions, Sonopet iQ Handpiece and Accessories	5500-001-700(XX)

6.1.2 To Perform Initial Installation

WARNING: ALWAYS connect the console to a hospital-grade, facility power receptacle with protective earth (ground) to avoid the risk of electrical shock.

NOTES:

- A Sonopet Cart may be used to provide a flat, sturdy surface for the console. See *Section 3.3 For Use With*.
 - ALWAYS make sure the vent holes in the back and underside of the console are not covered.
1. Put the console on a flat, sturdy surface near a hospital-grade power receptacle with protective earth (ground). Make sure the console is outside the sterile field (Figure 23).
 2. Insert the supplied Irrigation pole into the Irrigation pole holder on the console.
 3. Secure the Irrigation pole to the console with the nut provided.
 4. Using the supplied power cord, connect the console to a hospital-grade power receptacle with protective earth (ground).

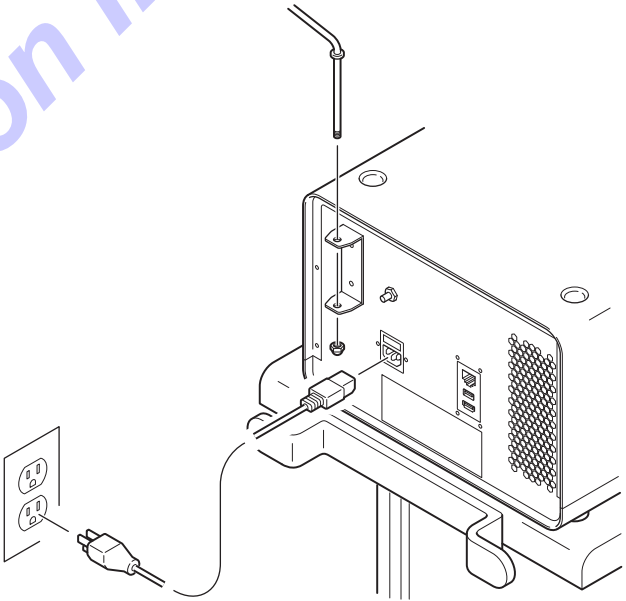


Figure 23 – Initial Installation

5. Push the power button to indicate a ready for use (green) mode of operation (Figure 24).

NOTES:

- A LANGUAGE selection screen will appear the first time the console is powered on.
 - The display screen language may be changed from the system SETTINGS screen after the initial selection. See *Section 6.1.4.3 To Select Display Screen Language*.
6. Select the appropriate display screen language (Figure 24).

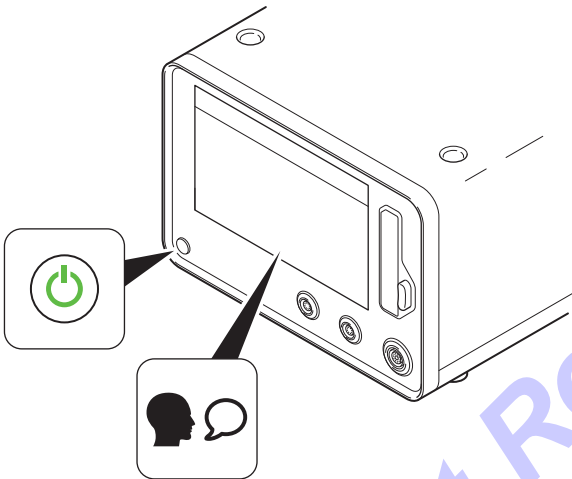


Figure 24 – Initial Language Selection

7. From the confirmation pop-up, touch the CONFIRM button to select the language or the CANCEL button to cancel the request.

6.1.3 To Manage Settings

Review and adjust the console system settings before first use and as required. See *Table 18 Default Setting Values*.

Table 18 – Default Setting Values

SETTINGS	MINIMUM	MAXIMUM	DEFAULT
Brightness	0%	100%	70%
Volume	0%	100%	40%
Language	N/A	N/A	None

6.1.3.1 To Adjust Brightness

- From the SYSTEM SETUP screen or HOME screen, touch the SETTINGS button.
- From the systems SETTINGS screen, touch the BRIGHTNESS button (Figure 25).

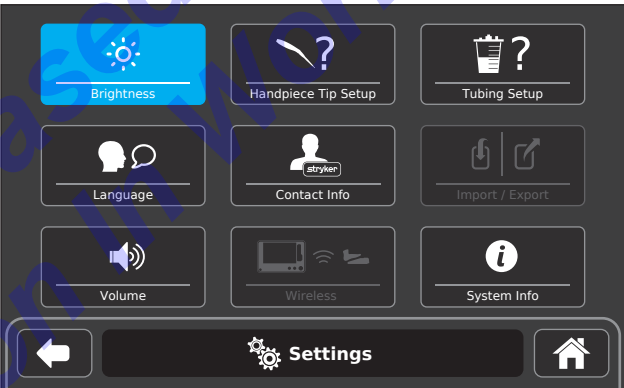


Figure 25 – Brightness Selection

NOTES:

- The brightness value may be adjusted from 0 to 100 percent.
- A zero percent adjustment does not completely turn off display screen brightness.
- The brightness of the display screen and the port ring indicators may be adjusted separately (unlinked) or together (linked). See *Table 3 Console Product Markings*.

3.

Touch the BRIGHTNESS LINKED button or BRIGHTNESS UNLINKED button as desired (Figure 26).
4.

To adjust the BRIGHTNESS value, touch the INCREASE (plus) button or DECREASE (minus) button or adjust the slider bar.

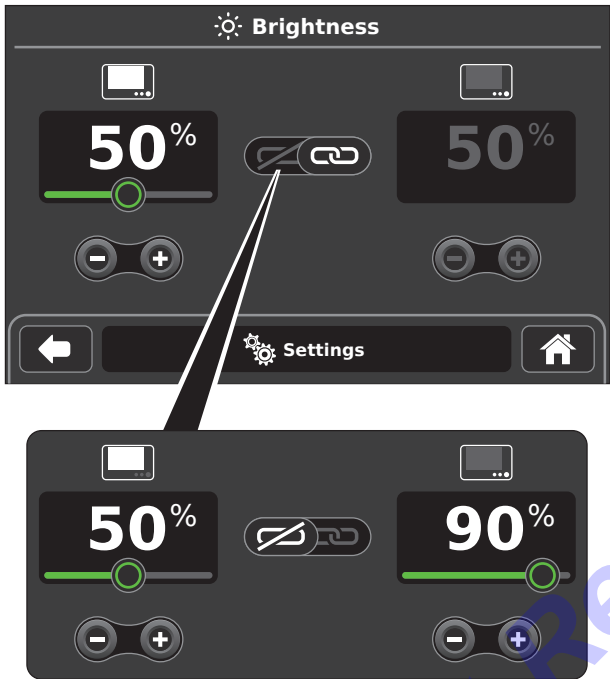


Figure 26 – Brightness Screen

5.

Touch the BACK button or HOME button to save the selections and exit the screen.

6.1.3.2 To Adjust Volume

1.

From the SYSTEM SETUP screen or HOME screen, touch the SETTINGS button.
2.

From the system SETTINGS screen, touch the VOLUME button (Figure 27).

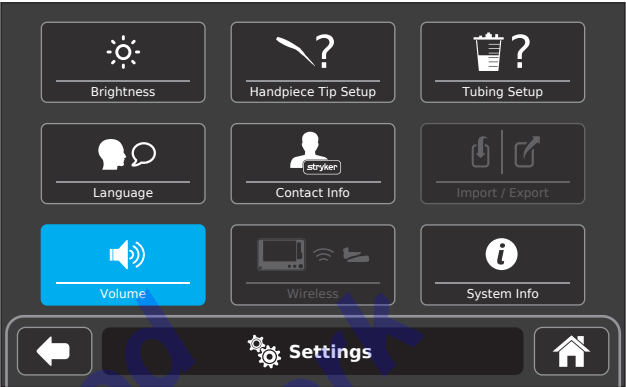


Figure 27 – Volume Selection

NOTES:

- The volume value of the audio speaker may be adjusted from 0 to 100 percent.
 - A zero percent adjustment will mute all audible indicators with the exception of error and notification message audible indicators.
3.

To adjust the audio speaker’s VOLUME value, touch the INCREASE (plus) button or DECREASE (minus) button or adjust the slider bar (Figure 28).
4.

Touch the BACK button or HOME button to save and exit the screen.

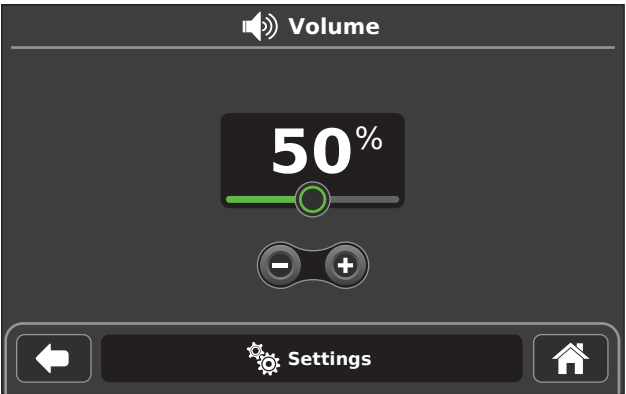


Figure 28 – Volume Screen

6.1.3.3 To Manage CONTACT INFO

NOTES:

- From the CONTACT INFO (information) screen, Stryker sales representative information may be created, edited, or deleted.
- Information includes the name, phone number, and e-mail address of the Stryker sales representative.
- Entering a name is the minimum information required to create a contact information entry.
- A maximum of 36 characters may be used to create an entry, including a name, phone number, or e-mail address.

6.1.3.3.1 To Create Contact Information

1. From the SYSTEM SETUP screen or HOME screen, touch the SETTINGS button.
2. From the system SETTINGS screen, touch the CONTACT INFO button (Figure 29).

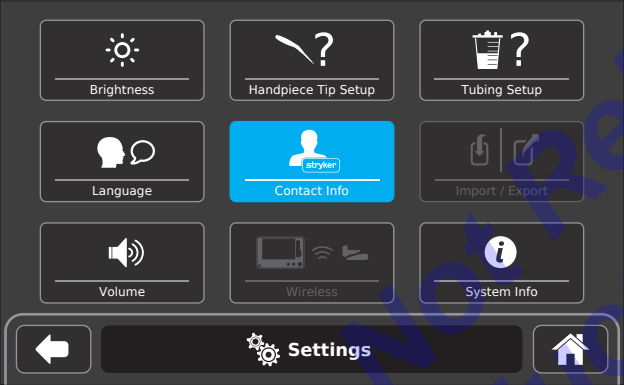


Figure 29 – Contact Info Selection

3. From the CONTACT INFO screen, touch the CREATE NEW button to access a keyboard screen (Figure 30).

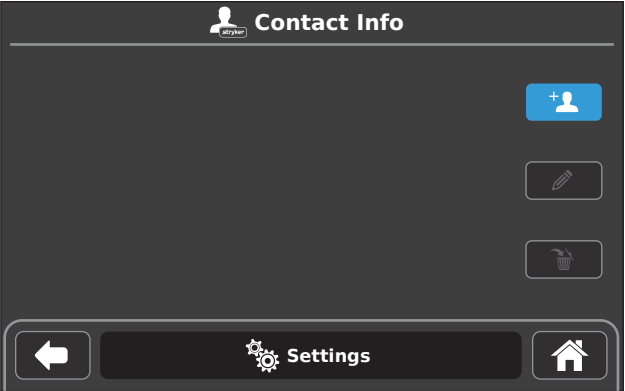


Figure 30 – Create CONTACT INFO Entry

4. Using the keyboard, enter the name and touch the FORWARD button (Figure 31).

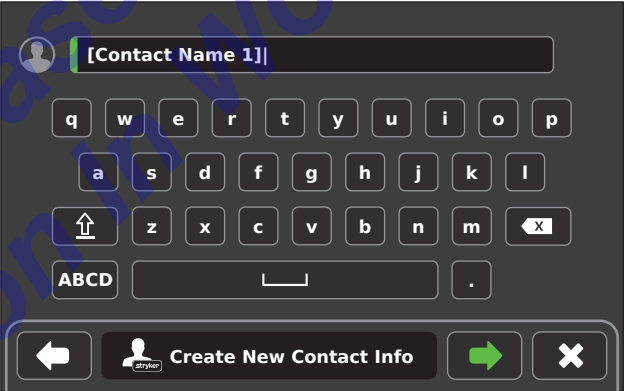


Figure 31 – Enter CONTACT INFO Name

5. Using the keyboard, enter the telephone number and touch the FORWARD button (Figure 32).



Figure 32 – Enter CONTACT INFO Telephone Number

6. Using the keyboard, enter the e-mail address and touch the CONFIRM button to save and exit the screen. Touch the CANCEL button to cancel the request (Figure 33).

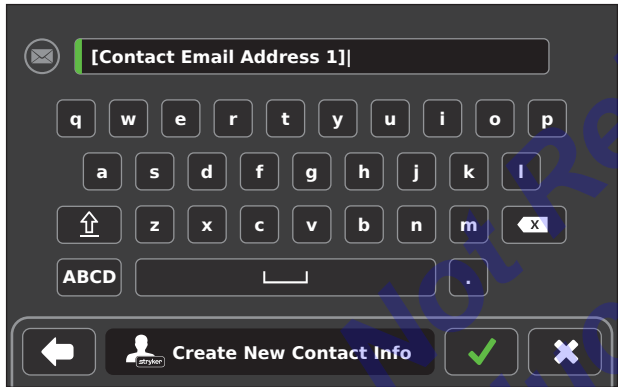


Figure 33 – Enter CONTACT INFO E-mail Address

6.1.3.3.2 To Edit Contact Information

1. From the SYSTEM SETUP screen or HOME screen, touch the SETTINGS button.
2. From the system SETTINGS screen, touch the CONTACT INFO button.
3. From the CONTACT INFO screen, touch and select the desired contact information that requires editing (Figure 34).
4. Touch the EDIT button.

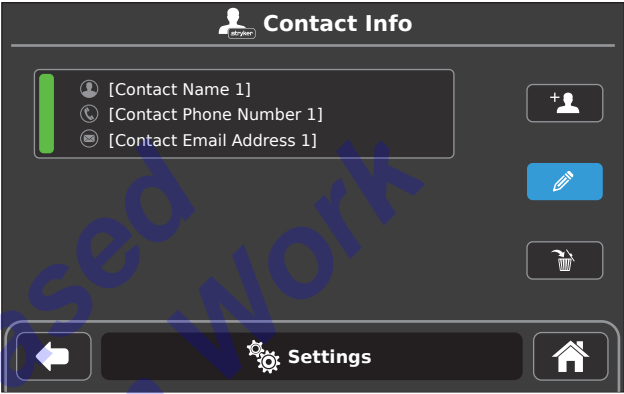


Figure 34 – Edit CONTACT INFO Information

5. Using the keyboard, edit the name and touch the FORWARD button (Figure 35).



Figure 35 – Edit CONTACT INFO Name

6. Using the keyboard, edit the telephone number and touch the FORWARD button (Figure 36).



Figure 36 – Edit CONTACT INFO Telephone Number

7. Using the keyboard, edit the e-mail address and touch the confirm button to save and exit the screen. Touch the CANCEL button to cancel the request (Figure 37).

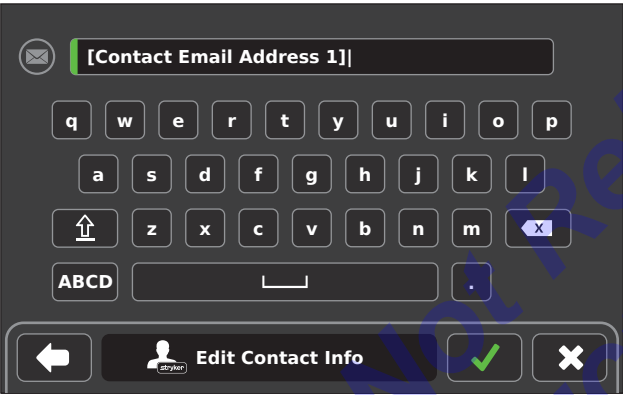


Figure 37 – Edit CONTACT INFO E-mail Address

6.1.3.3 To Delete Contact Information

- From the SYSTEM SETUP screen or HOME screen, touch the SETTINGS button.
- From the system SETTINGS screen, touch the CONTACT INFO button.
- From the CONTACT INFO screen, touch and select the desired contact information to delete (Figure 38).
- Touch the DELETE button.

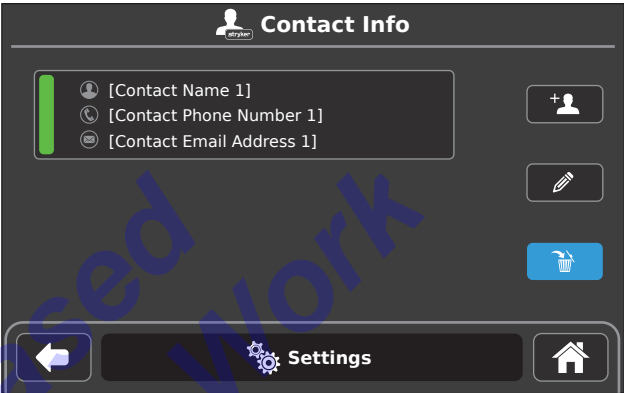


Figure 38 – Delete CONTACT INFO Information

- From the confirmation pop-up, touch the CONFIRM button to delete the information or the CANCEL button to cancel the request (Figure 39).

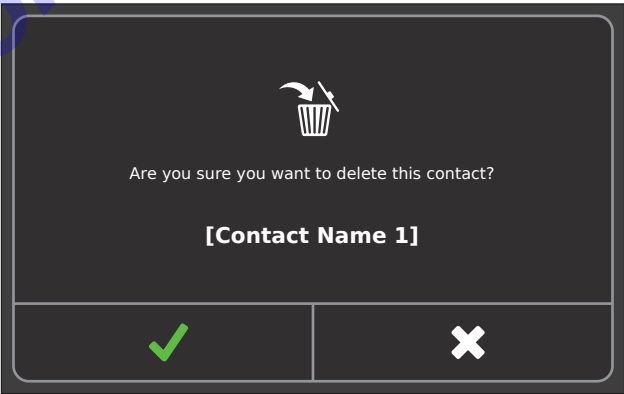


Figure 39 – Confirm CONTACT INFO Deletion

6.1.4 To View Setup Information

6.1.4.1 To Access Handpiece Tip Setup

1. From the SYSTEM SETUP screen or HOME screen, touch the SETTINGS button.
2. From the system SETTINGS screen, touch the HANDPIECE TIP SETUP button (Figure 40).

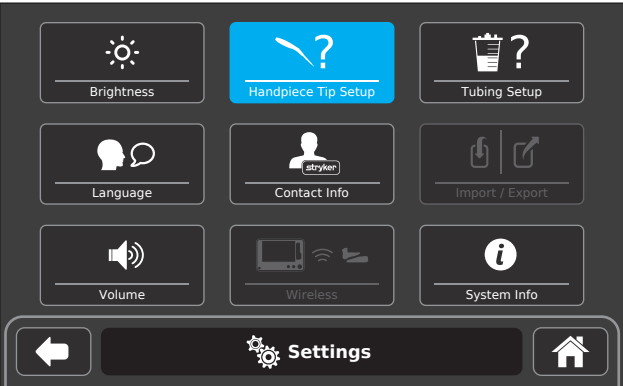


Figure 40 – Handpiece Tip Setup Selection

3. Touch the NEXT button or PREVIOUS button to navigate through the setup information (Figure 41).
4. Touch the CLOSE button to exit the screen.

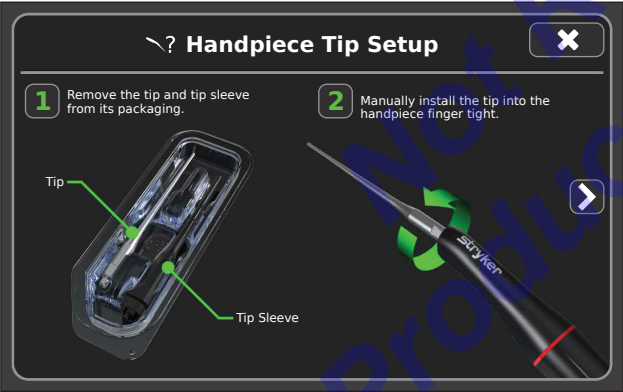


Figure 41 – Handpiece Tip Setup Screen

6.1.4.2 To Access Tubing Setup

1. From the SYSTEM SETUP screen or HOME screen, touch the SETTINGS button.
2. From the system SETTINGS screen, touch the TUBING SETUP button (Figure 42).

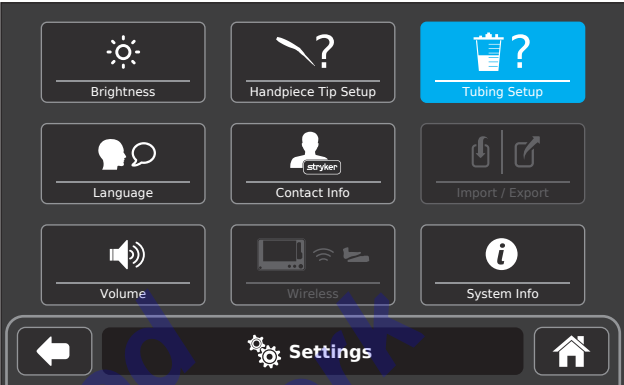


Figure 42 – Tubing Setup Selection

3. Touch the NEXT button or PREVIOUS button to navigate through the setup information (Figure 43).
4. Touch the CLOSE button to exit the screen.

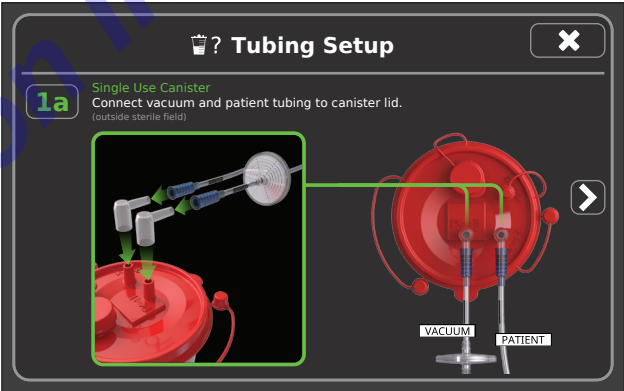


Figure 43 – Tubing Setup Screen

6.1.4.3 To Select Display Screen Language

1. From the SYSTEM SETUP screen or HOME screen, touch the SETTINGS button.
2. From the system SETTINGS screen, touch the LANGUAGE button (Figure 44). See Table 19 Display Screen Languages.

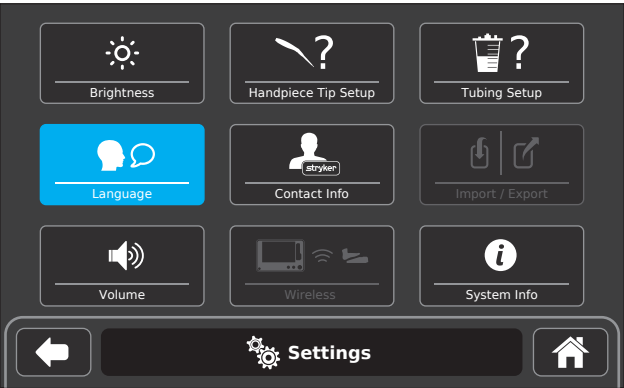


Figure 44 – Language Selection

Table 19 – Display Screen Languages

Chinese (ZH)	Korean (KO)
Danish (DA)	Norwegian (NO)
Dutch (NL)	Polish (PL)
English (EN)	Portuguese (PT)
Finnish (FI)	Russian (RU)
French (FR)	Spanish (ES)
German (DE)	Swedish (SV)
Italian (IT)	Turkish (TR)
Japanese (JA)	

3. Touch the appropriate LANGUAGE button to select the desired display screen language (Figure 45).



Figure 45 – Language Screen

4. Touch the BACK button or HOME button to save and exit the screen.

6.1.5 To Pair a Wireless Foot Pedal

NOTES:

- Make sure the wireless receiver is installed into the console foot pedal port (Figure 74).
- Make sure the wireless foot pedal is ON and the foot pedal indicator lamps are illuminated (batteries charged). See Section 6.1.10.1 To Install or Replace the Batteries (Wireless Advanced Foot Pedal Only).
- Make sure the wireless foot pedal is less than two meters (six feet) from the console during wireless connection.

1. From the system SETTINGS screen or WIRELESS CONNECTION SETUP screen, touch the WIRELESS button (Figure 46).

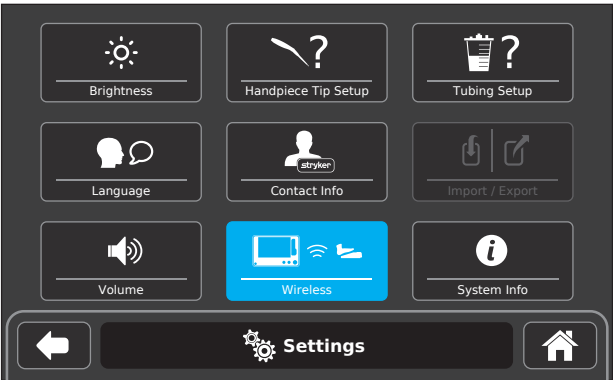


Figure 46 – Access Wireless Connection