stryker

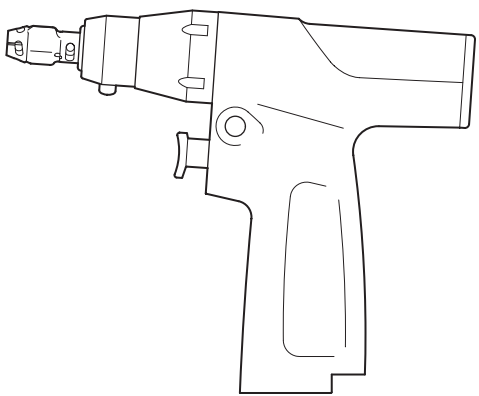
System 7
Sternum Saw

REF 7207-000-000

Instructions For Use

R_x ONLY

CE 0197



ENGLISH (EN)

Introduction

This *Instructions For Use* manual is the most comprehensive source of information for the safe and effective use of your product. This manual may be used by in-service trainers, physicians, nurses, surgical technologists, and biomedical equipment technicians. Keep and consult this reference manual during the life of the product.

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.

If additional information or in-service training is required, contact your Stryker sales representative or call Stryker customer service. Outside the US, contact your nearest Stryker subsidiary.

Indications For Use

The Stryker System 7 Battery Powered Heavy Duty System is intended for use in the cutting, drilling, decorticating, and smoothing of bone and other bone related tissue in a variety of surgical procedures. It is also usable in the placement of screws, wires, pins, and other fixation devices.

NOTE: The Stryker System 7 Sternum Saw (handpiece) is a component of the Stryker System 7 Battery Powered Heavy Duty System.

Contraindications

None known.

For Use With

A sternum blade guard must be used with the handpiece to create a safe and effective system. The following sternum blade guard is sold separately:

DESCRIPTION	REF
Sternum Blade Guard	7207-003-000

User/Patient Safety

WARNINGS:

- Before using any system component, or any component compatible with this system, read and understand the instructions. Pay particular attention to WARNING information. Become familiar with the system components prior to use.
- Only trained and experienced healthcare professionals should use this equipment.
- 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.
- Upon initial receipt and before each use, clean and sterilize the equipment as indicated. See the *Heavy Duty Care Instructions* manual for processing instructions.
- Upon initial receipt and before each use, operate the equipment and inspect each component for damage. DO NOT use any equipment if damage is apparent. See the *Heavy Duty Care Instructions* manual for inspection criteria.
- DO NOT use this equipment in areas in which flammable anesthetics or flammable agents are mixed with air, oxygen, or nitrous oxide.
- Take special precautions regarding electromagnetic compatibility (EMC) when using medical electrical equipment. Place this equipment into service according to the EMC information contained in this manual. Portable and mobile radio frequency (RF) equipment can affect the function of this equipment.
- DO NOT stack or place equipment adjacent to the product. If such a configuration is necessary, observe the configuration to ensure that electromagnetic interference does not degrade performance.
- DO NOT use the product in a magnetic resonance imaging (MRI) environment. Using the product in an MRI environment could affect the function of the system.

Accessories

WARNINGS:

- Use only Stryker-approved system components and accessories, unless otherwise specified. DO NOT modify any system component or accessory.
- Using other electronic components and accessories may result in increased electromagnetic emissions or decreased electromagnetic immunity of the system.
- DO NOT reuse, reprocess, or repackage a device that is intended for single use only.
  - A single use device may not withstand chemical, chemical vapor, or high temperature sterilization reprocessing.
  - Design features may make cleaning difficult.
  - Reuse may create a contamination risk and compromise structural integrity resulting in operational failure.
  - Critical product information may be lost during repackaging.

  Failure to comply may lead to infection or cross infection and result in patient and/or healthcare staff injury.

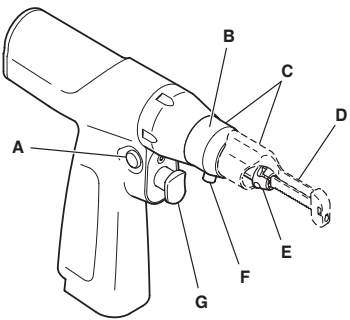
NOTE: For a complete list of accessories, contact your Stryker sales representative. Outside the US, contact your nearest Stryker subsidiary.

The following Stryker-approved accessories are sold separately:

DESCRIPTION	REF
Sternum Blades	0296-097-102
	0298-097-100
	0298-097-101
	0298-097-104
	6207-097-101
Sternum Blade Guard	7207-003-000
System 6 Battery Pack, Small	6212-000-000
System 6 Battery Pack, Large	6215-000-000
System 6 Aseptic Battery Kit, Large	6126-000-000
System 6 Aseptic Battery Kit, Small	6127-000-000
Stryker SmartLife™ Battery Pack, Small	7212-000-000
Stryker SmartLife Battery Pack, Large	7215-000-000
Stryker SmartLife Non-sterile Battery, Large	7126-110-000
Stryker SmartLife Aseptic Housing, Large	7126-120-000
Stryker SmartLife Transfer Shield, Large	7126-130-000
Stryker SmartLife Non-sterile Battery, Small	7222-110-000
Stryker SmartLife Aseptic Housing, Small	7222-120-000
Stryker SmartLife Transfer Shield, Small	7222-130-000

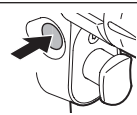
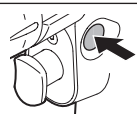
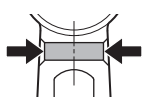
Features

Handpiece



A	**Function Switch** – Sets the speed or locks the trigger.
B	**Guard Collar** – Retains the blade guard in the handpiece.
C	**Applied Part** – The distal end of the handpiece and the sternum blade guard (as defined by the standards listed in the *Specifications* section under *Product Safety Certification*).
D	**Sternum Blade Guard** – Protects soft tissue from contact with the blade.
E	**Blade Collar** – Retains the blade in the handpiece.
F	**Guard Collar Lever** – Facilitates rotation of the guard collar.
G	**Trigger** – Controls the variable speed operation of the handpiece.

Function Switch

	**Fast Mode** – The handpiece will operate at high speed when the trigger is depressed.
	**Standard Mode** – The handpiece will operate at standard speed when the trigger is depressed.
	**Safe Mode** – The trigger is locked to prevent inadvertent operation of the handpiece.

Definitions

The symbols located on the equipment and/or labeling are defined in this section or in the *Symbol Definition Chart*. See the *Symbol Definition Chart* supplied with the equipment.

SYMBOL	DEFINITION
	**Fast Mode**
	**Standard Mode**
1 min / 4 min x 5	**Duty Cycle** – See the *Specifications* section.
	General warning sign
	To comply with European Community Waste Electrical and Electronic Equipment (WEEE) Directive 2012/19/EU, ALWAYS collect this product separately for recycling. DO NOT dispose of this product as unsorted municipal waste. Contact your local distributor for disposal information.
	Direct current

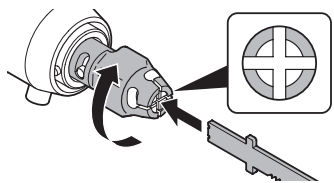
Instructions

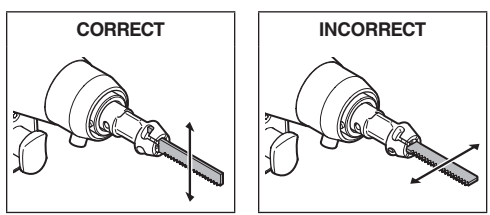
To Install the Blade

 **WARNINGS:**

- ALWAYS slide the function switch to the safe mode position before installing the blade.
- ALWAYS install the blade in a vertical orientation.
- ALWAYS make sure the blade collar springs back to its original position and the blade is securely locked in the blade collar after installation.

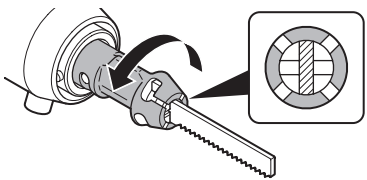
1. Rotate the spring-loaded blade collar to align the slots in the distal end of the collar, and then fully insert the blade into the blade collar in a vertical orientation.

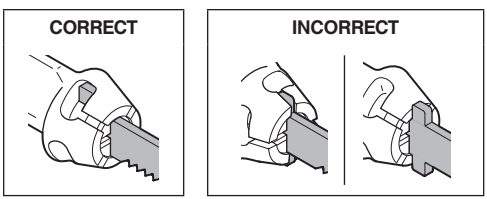




To Install the Blade (continued)

2. Release the blade collar. Make sure the blade collar springs back to its original position and the blade is securely locked in the blade collar.





3. Gently tug the blade to make sure the blade is securely locked in the blade collar.

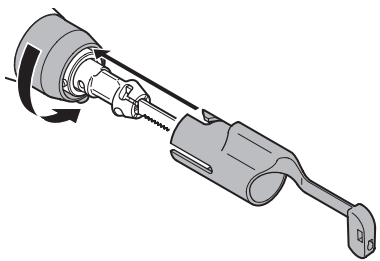
To Install the Blade Guard

WARNINGS:

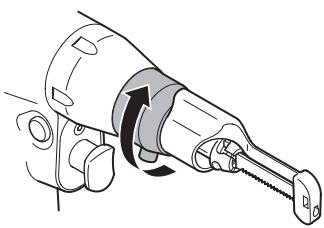
- ALWAYS slide the function switch to the safe mode position before installing the blade guard.
- ALWAYS make sure the blade is properly installed before installing the blade guard.
- Use only Stryker blades. ALWAYS select and install the appropriate blade guard for the specific blade used. See the instructions for use supplied with the blade guard.
- DO NOT attempt to straighten and reuse a bent blade guard.
- ALWAYS install the blade guard in a vertical orientation to match the blade. The teeth of the blade must point away from the guard.
- ALWAYS make sure the guard collar returns to its original position and the blade guard is securely locked in the guard collar after installation.
- ALWAYS make sure the blade does not touch or retract from the end of the blade guard after installation.

To Install the Blade Guard (continued)

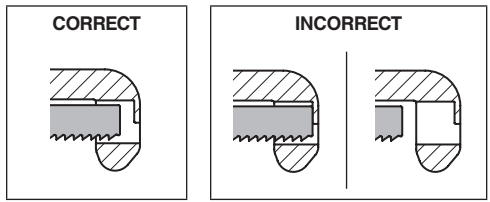
1. Push the guard collar lever to rotate the guard collar, and then fully insert the blade guard into the guard collar.



2. Release the guard collar lever. Make sure the guard collar returns to its original position and the blade guard is securely locked in the guard collar.



3. Make sure the blade does not touch or retract from the end of the blade guard.



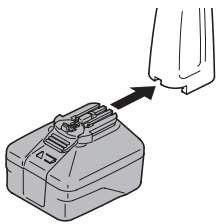
4. Gently tug the blade guard to make sure the blade guard is securely locked in the guard collar.

To Install the Battery Pack

WARNING: ALWAYS slide the function switch to the safe mode position before installing the battery pack.

NOTE: See the instructions for use supplied with the battery pack and/or battery charger for charging instructions and specifications.

1. Slide a fully charged battery pack into the handpiece until the battery pack snaps into place.



2. Gently tug the battery pack to make sure the battery pack is securely locked in the handpiece.
3. Test the operation of the handpiece by sliding the function switch to the fast or standard mode position, and then depressing the trigger.

To Operate the Handpiece

WARNINGS:

- ALWAYS slide the function switch to the safe mode position when the handpiece is idle or when passing the handpiece to another person.
- DO NOT change the position of the function switch while the handpiece is operating.
- Before operating the handpiece, ALWAYS gently tug the blade to make sure the blade is securely locked in the blade collar.
- Before operating the handpiece, ALWAYS gently tug the blade guard to make sure the blade is securely locked in the guard collar.
- DO NOT operate the handpiece until after the blade is in contact with bone or tissue. Failure to comply may fracture the blade or eject the blade from the handpiece.
- When operating the handpiece, DO NOT grasp the handpiece near the guard collar lever or cause the guard collar lever to move. Failure to comply may cause the blade guard to disengage from the handpiece.

To Operate the Handpiece (continued)

CAUTIONS:

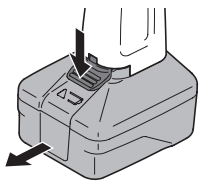
- This equipment is suitable to use in a professional healthcare facility environment.
- ALWAYS operate the equipment within the specified environmental condition values. See the *Specifications* section.
- ALWAYS follow the recommended duty cycle to prevent the equipment from overheating. See the *Specifications* section.
- DO NOT apply excessive pressure, such as bending or prying, with the blade. Excessive pressure may bend or fracture the blade and result in tissue damage, loss of tactile control, and/or the ejection of blade fragments at a high velocity.
- When operating the handpiece, let the blade do the cutting. DO NOT apply excessive pressure with the blade. Excessive pressure may bend the blade and reduce the cutting quality.
- DO NOT stall the handpiece. Failure to comply may damage the electric motor and/or battery pack. If the handpiece jams, release the trigger immediately. Remove any obstructions before continuing to operate the handpiece.
- If any power loss is experienced while using the handpiece, ALWAYS replace the battery pack with a fully charged battery pack. Failure to comply may result in a drained or damaged battery pack with a shortened life.

1. Slide the function switch to the fast or standard position.
2. Depress the pressure-sensitive trigger for variable speed operation.

To Remove the Battery Pack

WARNING: ALWAYS slide the function switch to the safe mode position before removing the battery pack.

Depress the battery latch and slide the battery pack out of the handpiece.



To Remove the Blade Guard

WARNING: ALWAYS slide the function switch to the safe mode position before removing the blade guard.

Push the guard collar lever to rotate the guard collar, and then remove the blade guard from the handpiece.

To Remove the Blade

WARNING: ALWAYS slide the function switch to the safe mode position before removing the blade.

Rotate the blade collar to align the slots in the distal end of the collar, and then remove the blade from the handpiece.

Care Instructions

For processing instructions and disposal/recycle information, see the care instructions manual supplied with the equipment.

Troubleshooting

WARNING: DO NOT disassemble or service this equipment.

NOTE: For service, contact your Stryker sales representative or call Stryker customer service. Outside the US, contact your nearest Stryker subsidiary.

PROBLEM	CAUSE	ACTION
The handpiece does not operate or operates at a reduced speed.	The battery pack is discharged.	Use a Stryker battery charger to recharge the battery pack.
	The function switch is in the standard position.	Set the function switch to the fast position.
	The battery pack is expended.	Replace the battery pack.
	The function switch is in the safe mode position.	Set the function switch to the fast or standard position.
	The drivetrain is malfunctioning.	Return the handpiece to Stryker for repair.
The handpiece operates but the blade does not move.	The drivetrain is malfunctioning.	Return the handpiece to Stryker for repair.
The handpiece continues to operate after the trigger is released.	The trigger is malfunctioning.	Depress the battery latch and slide the battery pack out of the handpiece. Return the handpiece to Stryker for repair.
The battery pack becomes unusually hot during use.	The circuitry is malfunctioning.	Use a Stryker battery charger to check the integrity of the battery pack. Replace the battery pack as required.

Troubleshooting (continued)

PROBLEM	CAUSE	ACTION
The blade will not fit or cannot be secured in the blade collar.	The blade collar contains debris.	Use a small brush to clean the blade collar.
	The blade is not a Stryker product.	Use a Stryker blade.
	The blade collar is damaged.	Return the handpiece to Stryker for repair.
The blade collar does not spring back to its original position to securely lock the blade in the blade collar.	The blade collar contains debris.	Use a small brush to clean the blade collar. Actuate the collar several times to obtain smooth operation.
The blade guard will not fit or cannot be secured in the guard collar.	The wrong blade guard has been selected for the specific blade used.	Select the appropriate blade guard for the specific blade used. See the instructions for use supplied with the blade guard.
	The guard collar contains debris.	Use a small brush to clean the guard collar.
	The blade guard is damaged.	Replace the blade guard.
The handpiece is noisy and/ or vibrates.	The drivetrain is malfunctioning.	Return the handpiece to Stryker for repair.
The handpiece experiences sporadic electrical interference.	Electrical noise is present.	Turn off all electrical equipment not in use in the operating room.
		Relocate electrical equipment and/ or increase spatial distance between electrical equipment.
		Plug operating room equipment into different operating room outlets.

Specifications

WARNING: ALWAYS check any documentation that accompanies attachments, burs, pins, and/or blades for special duty cycle and usage instructions.

CAUTION: ALWAYS store the equipment within the specified environmental condition values throughout its useful life.

NOTE: Specifications are approximate and may vary between devices or as a result of power supply fluctuations.

Model:	System 7 Sternum Saw (REF 7207-000-000)
Dimensions:	168 mm [6.6 inch] height 38 mm [1.5 inch] width 191 mm [7.5 inch] length
Mass:	0.94 kg [2.07 lb]
Speed:	14,000 cpm (fast) 11,000 cpm (standard)
Excursion:	3.9 mm [0.154 inch]
Mode of Operation:	Non-continuous Operation
Duty Cycle:	1 minute on/4 minutes off, 5 times
Rest Between Cycles:	3 hours
Maximum Temperature of Applied Part:	Less than 51 °C [124 °F] (Maximum surface temperature as tested to the standards listed under *Product Safety Certification*.)
Power Supply:	Internally Powered Refer to battery housing for voltage rating.
Ingress Protection:	IPX0 Ordinary Equipment
Equipment Type:	 Type BF Applied Part

Specifications (continued)

Product Safety Certification:

CSA International

Canadian Standards Association (CSA)

CAN/CSA-C22.2 No. 60601-1:14, *Medical Electrical Equipment — Part 1: General Requirements for Basic Safety and Essential Performance;* (IEC 60601-1:2005+A1:2012, MOD)

American National Standards Institute (ANSI)/Association for the Advancement of Medical Instrumentation (AAMI)

ANSI/AAMI ES60601-1:2005/(R) 2012, *Medical Electrical Equipment — Part 1: General Requirements for Basic Safety and Essential Performance;* Consolidated Reprint (2009/(R) 2012); Amendment 2 (2010/(R) 2012); Amendment 1 (2012)

Product Safety Compliance:

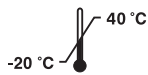
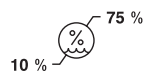
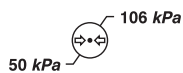
International Electrotechnical Commission (IEC)

IEC 60601-1:2005, Ed: 3.1, *Medical Electrical Equipment — Part 1: General Requirements for Basic Safety and Essential Performance;* Corrigendum 1 (2006); Corrigendum 2 (2007); Amendment 1 (2012)

European Committee for Electrotechnical Standardization (CENELEC)

EN 60601-1:2006+A12:2014, Ed: 3.1, *Medical Electrical Equipment – Part 1: General Requirements for Basic Safety and Essential Performance;* IEC Corrigendum 1 (2006); IEC Corrigendum 2 (2007); CENELEC Corrigendum (2010); CENELEC Amendment A11 (2011); IEC Amendment 1 (2013); IEC Corrigendum 3 (2014); CENELEC Amendment A12 (2014)

Specifications (continued)

Environmental Conditions:	**Operation**	**Storage and Transportation**
Temperature Limitation:		
Humidity Limitation:		
Atmospheric Pressure Limitation:		

Specifications (continued)

<table>
<tr><th colspan="3">Guidance and manufacturer’s declaration - electromagnetic emissions</th></tr>
<tr><td colspan="3">The System 7 Sternum Saw (REF 7207-000-000) is intended for use in the electromagnetic environment specified below. The customer or the user of the System 7 Sternum Saw (REF 7207-000-000) should assure that it is used in such an environment.</td></tr>
<tr><th>Emissions test</th><th>Compliance</th><th>Electromagnetic environment - guidance</th></tr>
<tr><td>RF emissions
CISPR 11</td><td>Group 1</td><td>The System 7 Sternum Saw (REF 7207-000-000) uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.</td></tr>
<tr><td>RF emissions
CISPR 11</td><td>Class B</td><td rowspan="3">The System 7 Sternum Saw (REF 7207-000-000) is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes, provided the following warning is heeded:

WARNING: This equipment/system is intended for use by healthcare professionals only. This equipment/system may cause radio interference or may disrupt the operation of nearby equipment. Mitigation measures may be necessary, such as reorienting or relocating the System 7 Sternum Saw (REF 7207-000-000) or shielding the location.</td></tr>
<tr><td>Harmonic emissions
IEC 61000-3-2</td><td>N/A</td></tr>
<tr><td>Voltage fluctuations/flicker emissions
IEC 61000-3-3</td><td>N/A</td></tr>
</table>

Specifications (continued)

Guidance and manufacturer's declaration - electromagnetic immunity			
The System 7 Sternum Saw (REF 7207-000-000) is intended for use in the electromagnetic environment specified below. The customer or the user of the System 7 Sternum Saw (REF 7207-000-000) should assure that it is used in such an environment. **NOTE:** The values provided in the table below have changed due to 60601-1-2 4th Edition requirements.			
Immunity test	**IEC 60601 test level**	**Compliance level**	**Electromagnetic environment - guidance**
Electrostatic discharge (ESD) IEC 61000-4-2	± 8 kV contact ± 2 kV, ± 4 kV, ± 8 kV, ± 15 kV air	± 8 kV contact ± 2 kV, ± 4 kV, ± 8 kV, ± 15 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/burst IEC 61000-4-4	± 2 kV at 100 kHz repetition frequency for power supply lines ± 1 kV at 100 kHz repetition frequency for input/output lines	N/A	N/A
Surge IEC 61000-4-5	± 0.5 kV, ± 1 kV line(s) to line(s) ± 0.5 kV, ± 1 kV, ± 2 kV line(s) to earth	N/A	N/A

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5% U_T (>95% dip in U_T) for 0,5 cycle 40% U_T (60% dip in U_T) for 5 cycles 0% U_T (100% dip in U_T) for 0.5 cycle at 0˚, 45˚, 90˚, 135˚, 180˚, 225˚, 270˚, and 315˚ 0% U_T (>100% dip in U_T) for 1 cycle at 0˚ 70% U_T (30% dip in U_T) for 25 and 30 cycles at 0˚ <5% U_T (>95% dip in U_T) for 5 seconds 0% U_T (100% dip in U_T) for 250/300 cycles	N/A	N/A
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m, 30 A/m at 50 and 60 Hz	3 A/m, 30 A/m at 50 and 60 Hz	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

NOTE: U_T is the alternating current mains voltage prior to application of the test level.

Specifications (continued)

Guidance and manufacturer's declaration - electromagnetic immunity			
The System 7 Sternum Saw (REF 7207-000-000) is intended for use in the electromagnetic environment specified below. The customer or the user of the System 7 Sternum Saw (REF 7207-000-000) should assure that it is used in such an environment.			
Immunity test	**IEC 60601 test level**	**Compliance level**	**Electromagnetic environment - guidance**
Conducted RF IEC 61000-4-6	3 V 0.15 MHz – 80 MHz 6 V in ISM bands between 0.15 MHz and 80 MHz 80% AM at 1 kHz	N/A	IEC 60601-1-2 3rd Edition: Portable and mobile RF equipment should be used no closer to any part of the System 7 Sternum Saw (REF 7207-000-000), including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.
Radiated RF IEC 61000-4-3	[b] 3 V/m 80 MHz to 2.7 GHz 80% AM at 1 kHz 27 V/m 385 MHz, pulse modulation 18 Hz, Maximum power = 1.8 W 28 V/m 450 MHz, FM ± 5 kHz deviation, 1 kHz sine, Maximum power = 2 W	[b] 3 V/m 80 MHz to 2.7 GHz 80% AM at 1 kHz 27 V/m 385 MHz, pulse modulation 18 Hz, Maximum power = 1.8 W 28 V/m 450 MHz, FM ± 5 kHz deviation, 1 kHz sine, Maximum power = 2 W	Recommended separation distance: $d=1.2\sqrt{P}$ 80 MHz to 800 MHz $d=2.3\sqrt{P}$ 800 MHz to 2.5 GHz Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m).

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Radiated RF IEC 61000-4-3	9 V/m 710, 745, 780, 5240, 5500, 5785 MHz, pulse modulation 217 Hz, Maximum power = 0.2 W 28 V/m 810, 870, 930 MHz, pulse modulation 18 Hz, Maximum power = 2 W 28 V/m 1720, 1845, 1970, 2450 MHz, pulse modulation 217 Hz, Maximum power = 2 W	9 V/m 710, 745, 780, 5240, 5500, 5785 MHz, pulse modulation 217 Hz, Maximum power = 0.2 W 28 V/m 810, 870, 930 MHz, pulse modulation 18 Hz, Maximum power = 2 W 28 V/m 1720, 1845, 1970, 2450 MHz, pulse modulation 217 Hz, Maximum power = 2 W	IEC 60601-1-2 4th Edition: **WARNING:** Portable RF equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the System 7 Sternum Saw (REF 7207-000-000), including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result. Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey,[a] should be less than the compliance level in each frequency range.[b] Interference may occur in the vicinity of equipment marked with the following symbol: (Non-ionizing electromagnetic radiation)

NOTE 1: At 80 MHz and 800MHz the higher frequency range applies.
NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.
[a] Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the System 7 Sternum Saw (REF 7207-000-000) is used exceeds the applicable RF compliance level above, the System 7 Sternum Saw (REF 7207-000-000) should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating System 7 Sternum Saw (REF 7207-000-000).
[b] Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Specifications (continued)

IEC 60601-1-2 3rd Edition: Recommended separation distances between portable and mobile RF equipment and the System 7 Sternum Saw (REF 7207-000-000)			
The System 7 Sternum Saw (REF 7207-000-000) is intended for use in the electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the System 7 Sternum Saw (REF 7207-000-000) can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF equipment (transmitters) and the System 7 Sternum Saw (REF 7207-000-000) as recommended below, according to the maximum output power of the equipment.			
Rated maximum output power of transmitter W	**Separation distance according to frequency of transmitter m**		
	150 kHz to 80 MHz N/A	**80 MHz to 800 MHz** $d=1.2\sqrt{P}$	**800 MHz to 2.5 GHz** $d=2.3\sqrt{P}$
0.01	N/A	0.12	0.23
0.1	N/A	0.38	0.73
1	N/A	1.2	2.3
10	N/A	3.8	7.3
100	N/A	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance *d* in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where *P* is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE 1: At 80 MHz and 800MHz, the separation distance for the higher frequency range applies.

NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

ES/DE/FR/IT/NL	7207-001-710
JA/ZH/KO	7207-001-720
SV/DA/FI/PT/NO	7207-001-730
PL/EL	7207-001-750

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