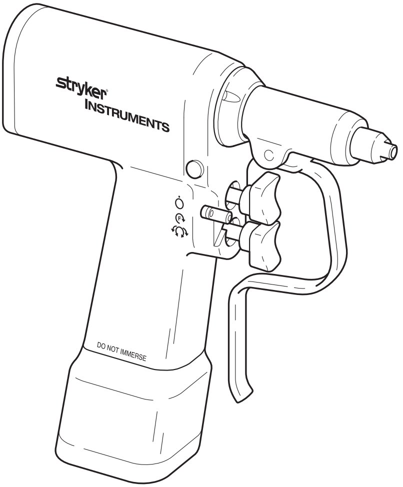
IMPORTANT INFORMATION: File in your maintenance records

Cordless Driver 2 REF 4200

Maintenance Manual & Operating Instructions



CE 0197

R_X ONLY

2008/11

4200-1-700 Rev-J

Warning • Caution • Note

Please read this manual and follow all instructions carefully. The words WARNING, CAUTION and NOTE carry special meanings and should be carefully reviewed.

WARNING: The personal safety of the patient and/or user may be involved. Disregarding this information could result in injury to the patient and/or O.R. staff.

CAUTION: These instructions point out special service procedures or precautions that must be followed to avoid damaging the instrument.

NOTE: This provides special information to make maintenance easier or important instructions more clear.

This symbol is used to alert the reader to important safety and precautionary information. When displayed on the actual device, it refers the user to accompanying documents.

Important Information

WARNING: Prior to each use, system components should be operated and inspected for damage to assure proper working order and that there are no loose or missing components. Check all moving parts for free movement. DO NOT use if damage is apparent.

WARNING: Always put handpiece in the safety position before attaching or removing accessories or Battery Pack.

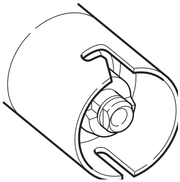
Read and understand the *System 2000 and the System 4 Battery Chargers Maintenance & Operating Instructions* for additional information.

This equipment is not suitable for use in the presence of flammable anesthetic mixture with air, oxygen or nitrous oxide.

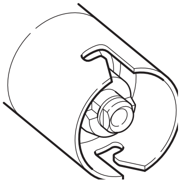
Important Information (con't)

Prior to first and every use, sterilize handpiece and accessories. See *Sterilization.*

WARNING: Accessories must have two J-slots to properly fit in the Cordless Driver. Earlier versions of some Stryker accessories contain only one J-slot and should not be used with this handpiece because they can not be fully retained.

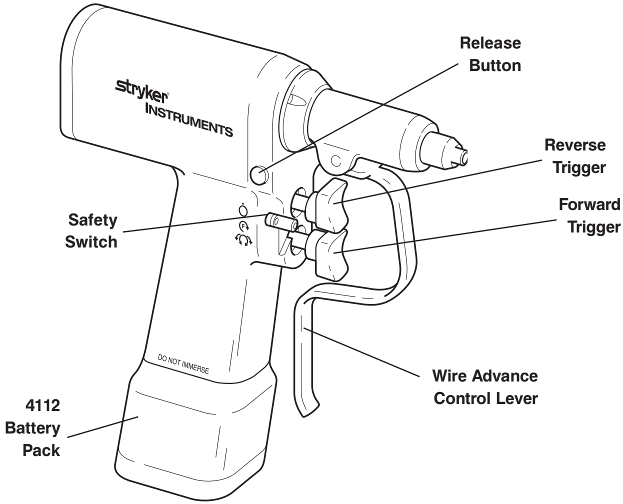


Do not use earlier versions of Stryker's Wire Collet 4100-62 or Pin Collet 4100-125. They have only one J-slot.



Only use accessories with two J-slots.

Introduction & Features



Cordless Driver 2 shown with Wire Collet.

Introduction & Features

The Cordless Driver 2, when used in conjunction with a number of attachments, is intended for orthopedic surgical procedures involving drilling, reaming, driving wire or pins, and cutting bone and hard tissue.

- Several accessories are available for use with the Cordless Driver. Each accessory has a specialized retainer for blades, drills, reamers, wires, or pins. See the *Cordless Driver and Universal Driver Accessories Instructions For Use* for specific accessory (attachment) instructions.
- Pushing the **release button** releases the attached accessory.
- The **safety switch** prevents inadvertent operation of the handpiece.
- Both the **reverse trigger** and the **forward trigger** are pressure sensitive for variable speed operation. When depressed together, the triggers operate the handpiece in the oscillate mode.
- The rechargeable **Battery Pack** (REF 4112) contains eight nickel-cadmium energy cells which supply power to the handpiece.

Reorder Information

Battery Pack 4112
Battery Pack Adaptor 4110-112
Sterilization Case (Metal) 4100-451
Sterilization Case (Plastic) 4200-465
Battery Stand 4100-406
(For 4112 Battery only)
Light Mineral Oil 1605-10

User/Patient Safety

Please note the following WARNINGS:

- Prior to each use, operate system components and inspect for damage. DO NOT use if damage is apparent. Take special precautions regarding electromagnetic compatibility (EMC) when using medical electrical equipment like the Cordless Driver 2. Install and place the handpiece into service according to the EMC information in this manual. Portable and mobile RF communications equipment can affect the function of the handpiece.

- Use only approved accessories. Other accessories may result in increased emissions or decreased immunity of the Cordless Driver 2. Contact your Stryker sales representative for a complete list of accessories. DO NOT modify any accessory. Failure to comply may result in patient and/or operating room staff injury

- Read and understand the information in this manual. Familiarization with the Cordless Driver 2 prior to use is important.

- Remove the battery pack from the cordless driver when the instrument is not in use to prevent inadvertent running of the handpiece.

- If "wobble" is encountered while using an accessory, the wire or pin may extend too far from the distal end of the accessory, is the wrong size, or is not properly centered in the accessory. Re-insert the wire or pin. If wobble persists, a problem with the instrumentation exists. Do not use these instruments. An accessory that wobbles could result in inaccurate wire or pin placement and/or bone or tissue damage. Return the handpiece and accessory to Stryker for inspection and repair.

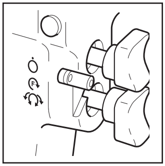
- Prior to every use, system components should be operated and inspected for damage to assure proper working order and that there are no loose or missing components. Check all moving parts for free movement. DO NOT use if damage is apparent.

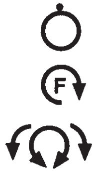
Please note the following CAUTION:

- Do not stall the handpiece. This will damage the battery pack. If the handpiece jams, release the trigger immediately. Remove any obstructions before continuing the procedure.

Symbol Definition

Safety Switch function



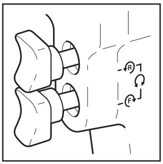


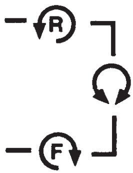
Safety

Forward

Forward/
Reverse/
Osc

Trigger function





Reverse

Osc

Forward

Other Symbols

Ni-Cd

Nickel-Cadmium rechargeable
Recycle or dispose of properly.

Must be recycled or
disposed of properly.

Instructions

1. Rotate the safety switch to the **safety** position to activate safety. Figure 1.

2. Slide the battery pack into the handpiece. When fully inserted, the latch will lock it in place. Figure 2.

   NOTE: Push the latch toward the back of the handpiece to remove the battery pack. Some versions have an arrow on the latch.

3. To install an accessory, align its J-slot with the top of the handpiece. The accessory will snap into place. Tug the accessory to ensure it is secure. Figure 3.

   NOTE: To release the accessory, press the release button.

4. Set the safety switch to activate the trigger(s). Refer to the *Trigger Activation Chart.*

5. Depress trigger(s) to run the handpiece.

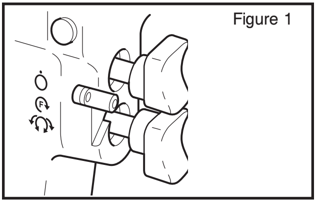


Figure 1

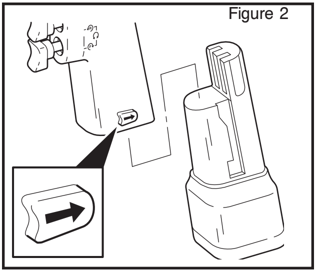


Figure 2

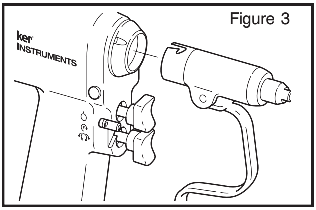


Figure 3

TRIGGER ACTIVATION

SAFETY SWITCH POSITION	TRIGGER
	■Both triggers are locked.
	■Reverse (upper) trigger is locked. ■Forward (lower) trigger functions.
	■Reverse (upper) trigger functions. ■Forward (lower) trigger functions. ■Oscillating function occurs when both triggers are depressed.

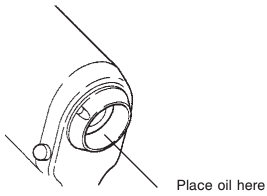
Troubleshooting Guide

Problem	Cause	Solution
Instrument does not run or turns at a reduced speed.	Discharged battery pack	Recharge battery pack.
	Expended battery pack	Replace battery pack.
	Malfunctioning drivetrain	Return for repair.*
	Safety switch in safety position	Take safety switch out of safety position.
Motor runs but accessory does not move.	Malfunctioning drivetrain	Return for repair.*
Accessory will not fit into shaft.	Debris inside cannulated shaft or front end of handpiece	Clean with small bottle brush.
	Damaged accessory	Return for repair.*
	Damaged accessory retainer	Return for repair.*

Troubleshooting Guide (cont.)

Troubleshooting Guide

Problem	Cause	Solution
"Wobble" occurs while using an accessory.	Wire or pin is bent, extends too far from distal end of accessory, is wrong size, or is not properly centered	Reinsert wire or pin. If wobble persists, this may indicate a problem with instrumentation. Return for repair.*
Pin slips in Pin Collet REF 4100-125	Design limitations	Use Pin Collet REF 4100-126
Accessory is difficult to install and connection feels "sticky".	Release button mechanism is worn.	Apply one (1) drop of mineral oil in the location indicated.



*Do not attempt to service any sytem component. In the U.S.A., refer operating difficulties to your Stryker Representative or Customer Service. Outside the U.S.A., contact your Stryker Sales Representative or your nearest Stryker subsidiary.

Cleaning

CAUTION: DO NOT immerse Cordless Driver 2, battery pack, battery pack adaptor, or charger.

WARNING: DO NOT use solvents, lubricants, or other chemicals unless otherwise specified.

NOTE: See the *System 2000 and System 4 Battery Chargers Maintenance and Operating Instructions* for battery pack and battery adaptor cleaning information.

Cordless Driver 2 and Accessories

1. Remove Battery Pack and accessories from the handpiece.

2. Use a stiff bristle brush and mild detergent such as Ivory™ to scrub debris from the handpiece and accessories. Pay close attention to seams, joints, and details around the accessory collet and trigger areas. Use a bottle brush to clean the cannula.

3. Rinse the handpiece under running water. Rinse all external surfaces and the cannula.

   CAUTION: DO NOT allow water to run into the battery chamber of the handpiece.

4. Dry handpiece and accessories with a lint-free towel.

Blades and Rasps

- Carefully inspect blade and rasp to confirm that it is not bent or cracked, that no teeth are missing, and that the teeth are sharp.

- Blades and rasps are designed for single use only.

Sterilization

To obtain optimum performance from the instruments and help prevent damage, the following sterilization procedures must be followed.

Handpieces and accessories must be sterilized before first and every use.

WARNING: The accessories must be separated from the handpiece prior to sterilization.

CAUTIONS:

- DO NOT sterilize charger or battery pack adaptor.
- Gas Plasma sterilization causes loss of color on colored anodized aluminum pieces.

Battery Packs

See the *System 2000 and System 4 Battery Chargers Maintenance and Operating Instructions* for battery pack sterilization information.

Cordless Driver 2 and Accessories

"Flash" Autoclave:

- Gravity displacement sterilizer
- 270-272˚F (132-134˚C)
- Unwrapped in an instrument tray in a vertical position with the front end up so steam can flow through the cannula
- 10-minute minimum exposure time

Hi Vac:

- Pre-vacuumed sterilizer
- 270-272˚F (132-134˚C)
- Wrapped or unwrapped
- 4-minute minimum exposure time
- 8-minute minimum dry time required if wrapped

ETO:

- 100% ETO
- 120-135˚F (49-57˚C)
- Wrapped in an instrument tray or fully perforated sterilization box
- 2-hour 30-minute exposure time, 8-hour minimum aeration time

250˚F Gravity:

- Gravity displacement sterilizer
- 250-254˚F (121-123˚C)
- Wrapped in an instrument tray or fully perforated sterilization box
- 50-minute exposure time
- 8-minute minimum drying time

270˚F Gravity:

- Gravity displacement sterilizer
- 270-272˚F (132-134˚C)
- Wrapped in an instrument tray or fully perforated sterilization box
- 35-minute minimum exposure time
- 8-minute minimum dry time

Sterilization Recommendations
Validation based on AAMI protocol.

Maintenance

CAUTION: DO NOT attempt to service any components. In the U.S.A., refer calibration, operating difficulties and scheduled maintenance activities to your Stryker Representative or Stryker Customer Service. Outside the U.S.A., contact your nearest Stryker subsidiary.

PERIODIC MAINTENANCE SCHEDULE	
INTERVAL	**ACTIVITY**
3 months	Test Sagittal Saw (REF 4100-400) for one (1) minute to determine temperature. If the distal tip and body of the adaptor is uncomfortably hot to the touch (approx 110°F), return the instrument for service.
As required	If operation becomes stiff, lubricate Chuck or Keyless style accessories (REF 4100-131), (REF 4100-132), (REF 4100-133), (4100-134) and (4100-231): 1. Apply a drop of light mineral oil to the chuck jaws. 2. Wipe off excess oil.

To ensure the longevity, performance, and safety of this equipment, package in original packaging materials when storing or transporting.

Specifications

CORDLESS DRIVER 2
(without Battery Pack
or Accessory)

Size: 5.30 in. [135 mm] high
4.65 in. [118 mm] long
1.65 in. [42 mm] wide
Weight: 1.55 lbs. [0.7 Kg]
Speed: N/A

Specifications are approximate.

Type BF Applied Part

CSA International
- CAN/CSA-C22.2 No. 601.1-M90
- UL 60601-1
- IEC 60601-1

C US

CORDLESS DRIVER 2
(with 4112)

Size: 7.35 in. [187 mm] high
4.65 in. [118 mm] long
1.75 in. [44 mm] wide
Weight: 2.05 lbs. [0.9 Kg]
Speed: 1,500 RPM maximum
IPX0 Ordinary Equipment

Internally Powered 9.6 V ⎓

Duty Cycle: Intermittent Operation
1 minute on / 4 minutes off 5 times with a 2 hour rest time

If experiencing sporadic electrical interference:
- Turn off all electrical equipment not in use in the O.R.
- Relocate electrical equipment; increase spatial distance.
- Plug equipment into different O.R. outlets.

Environmental Conditions

Operation

Temperature	Humidity	Atmospheric
10 – 40°C	30 – 75%	700 – 1060 *hPa*

Storage and Transportation

Temperature	Humidity	Atmospheric
-20 – 40°C	10 – 75%	500 – 1060 *hPa*

Guidance and manufacturer’s declaration - electromagnetic emissions

The Cordless Driver 2 is intended for use in the electromagnetic environment specified below. The customer or the user of the Cordless Driver 2 should assure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	The Cordless Driver 2 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.
RF emissions CISPR 11	Class B	The Cordless Driver 2 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.
Harmonic emissions IEC 61000-3-2	n/a	
Voltage fluctuations/flicker emissions IEC 61000-3-3	n/a	

Guidance and manufacturer's declaration - electromagnetic immunity

The Cordless Driver 2 is intended for use in the electromagnetic environment specified below. The customer or the user of the Cordless Driver 2 should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
			Portable and mobile RF communications equipment should be used no closer to any part of the Cordless Driver 2, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $d=1.67\sqrt{P}$
Conducted RF	3 Vrms	n/a	
IEC 61000-4-6	150 kHz to 80 MHz	n/a	$d=1.67\sqrt{P}$ 80 MHz to 800 MHz
Radiated RF	3 V/m	3 V/m	
IEC 61000-4-3	80 MHz to 2.5 GHz	80MHz to 2.5 GHz	$d=2.33\sqrt{P}$ 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) Interference may occur in the vicinity of equipment marked with the following symbol: 

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.

Guidance and manufacturer's declaration - electromagnetic immunity			
The Cordless Driver 2 is intended for use in the electromagnetic environment specified below. The customer or the user of the Cordless Driver 2 should assure that it is used in such an environment.			
Immunity test	**IEC 60601 test level**	**Compliance level**	**Electromagnetic environment - guidance**
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±2, 4, 6 kV contact ±2, 4, 8 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 for power supply lines ±1 kV for input/output lines	n/a n/a	
Surge IEC 61000-4-5	±1 kV differential mode ±2 kV common mode	n/a n/a	
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 70% U_T (30% dip in U_T) for 25 cycles <5% U_T (>95% dip in U_T) for 5 sec	n/a n/a n/a n/a	
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristics of a typical location in a typical commercial or hospital environment.
NOTE: U_T is the a.c. mains voltage prior to application of the test level.			

Recommended separation distances between portable and mobile RF communications equipment and the Cordless Driver 2			
The Cordless Driver 2 is intended for use in the electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Cordless Driver 2 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Cordless Driver 2 as recommended below, according to the maximum output power of the communications equipment.			
Rated maximum output power of transmitter W	**Separation distance according to frequency of transmitter** m		
	150 kHz to 80 MHz $d = [\frac{3,5}{V_1}]\sqrt{P}$	**80 MHz to 800 MHz** $d = [\frac{3,5}{E_1}]\sqrt{P}$	**800 MHz to 2.5 GHz** $d = [\frac{7}{E_1}]\sqrt{P}$
0.01	n/a	0.12	0.23
0.1	n/a	0.37	0.74
1	n/a	1.17	2.33
10	n/a	3.70	7.37
100	n/a	11.70	23.30

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.

Accessories for use with Cordless Drivers

REF 4100-000-000
REF 4101-000-000
REF 4200-000-000
REF 4300-000-000

TPS Universal Driver

REF 5100-099-000

CORE Universal Driver

REF 5400-099-000

Instructions for Use

R_X ONLY

WARNINGS:

- Before attaching or removing any accessory or before passing the handpiece to another person, always put safety switch in the safety position to prevent inadvertent running of the handpiece
- Use only Stryker approved accessories.

Cleaning Recommendations

WARNINGS:

- Clean and sterilize handpieces, attachments and batteries before first and every use.
- Prior to cleaning and sterilization, remove all attachments and accessories from the handpiece.
- DO NOT use solvents, lubricants, or other chemicals unless otherwise specified.

CAUTION: DO NOT immerse a handpiece, attachment or battery pack in liquid. Moisture may enter the equipment, cause corrosion, and damage the electrical and/or mechanical components.

To Clean Accessories

1. Remove the attachment from the handpiece.
2. Remove all gross soil, including blood, mucus, and tissue from the attachment using a disposable cloth moistened with a neutral or mild alkaline pH enzymatic cleaning solution diluted according to the manufacturer's recommendations.
3. Ensure all the surfaces are thoroughly wetted.
4. Using a brush with stiff, non-metallic bristles and hospital enzymatic cleaner, scrub the debris from the attachment. Pay particular attention to crevices and other hard to reach areas. Use a sterile syringe to flush difficult to reach areas.
5. Rinse all external surfaces of the attachment under filtered running water. Flush the cannula, if present, with running water. Use a sterile syringe to flush difficult to reach areas.
6. Visually inspect the attachment for any remaining debris; if any debris is present, repeat the cleaning and rinsing procedure using fresh hospital enzymatic cleaner.
7. Dry the attachment with a lint-free towel or medical-grade, compressed air.
8. After cleaning, sterilize as directed. See *Sterilization Recommendations*.

Sterilization Recommendations

WARNINGS:

- Clean and sterilize handpieces, attachments and batteries before first and every use.
- Prior to cleaning and sterilization, remove all attachments and accessories from the handpiece.

NOTES:

- Steam sterilization (moist heat) is recommended. Stryker Instruments has validated several autoclave cycles for the sterilization of this equipment. However, autoclave design and performance can effect the efficacy of the process. Health care facilities should validate theprocess they use, employing the actual equipment and operators that routinely process the instruments.
- The final responsibility for validation of sterilization techniques lies directly with the hospital. To ensure the efficacy of hospital processing, all cycles and methods should be validated for different sterilization chambers, wrapping methods and/or various loading configuration.
- After sterilization, allow the equipment to cool to room temperature to ensure a comfortable operating temperature.
- To obtain optimal performance and prevent damage, perform one of the following procedures*:

“Flash” Autoclave:
- Gravity displacement sterilizer
- 270-272 ˚F (132-134 ˚C)
- Unwrapped in an instrument tray in a vertical position so steam can flow through the cannula
- 10-minute minimum exposure time

Dynamic Air Removal: (PreVac or HiVac)
- Dynamic air removal sterilizer
- 270-272 ˚F (132-134 ˚C)
- Wrapped or unwrapped in an instrument tray or fully perforated sterilization case
- 4-minute minimum exposure time
- 8-minute minimum dry time

250 ˚F Gravity:
- Gravity displacement sterilizer
- 250-254 ˚F (121-123 ˚C)
- Wrapped in an instrument tray or fully perforated sterilization case
- 50-minute exposure time
- 8-minute minimum drying time

270 ˚F Gravity:
- Gravity displacement sterilizer
- 270-272 ˚F (132-134 ˚C)
- Wrapped in an instrument tray or fully perforated sterilization case
- 35-minute minimum exposure time
- 8-minute minimum dry time

NOTE: After sterilization, allow the equipment to cool to room temperature to ensure a comfortable operating temperature.

*Validation is based on the Association for the Advancement of Medical Instrumentation (AAMI) protocol.

Reorder Information

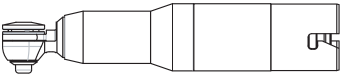
Sagittal Saw 4100-400-000

1/4” Keyed Chuck 4100-131-000
5/32” Drill 4100-132-000
1/4” Reamer 4100-231-000

Wire Collet 4100-062-000

Pin Collet 4100-125-000
Pin Collet 4100-126-000
1/4” Keyless Drill Chuck 4100-133-000
1/8” Keyless Drill Chuck 4100-134-000

Hudson®/Modified Trinkle Drill 4100-135-000
Hudson/Modified Trinkle Reamer 4100-235-000
Right Angle Drive-Synthes® Reamer 4100-310-000
Right Angle Drive-Modified Trinkle Reamer 4100-335-000
Trinkle Drill 4100-160-000
Trinkle Reamer 4100-260-000
T-Latch Attachment 4100-120-000



Sagittal Saw Attachment (4100-400-000)

Accessory Information

Description	REF
Blades	2296-003-xxx
	2296-033-xxx
	5400-003-xxx
	5400-134-xxx

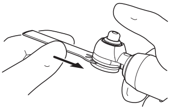
Instructions

WARNINGS:

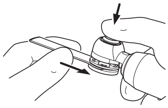
- DO NOT attempt to insert or remove any cutting accessory or attachment while the handpiece is operating. Failure to comply may result in operating room staff injury.
- DO NOT apply excessive pressure, such as bending or prying, with the blade. Excessive pressure may bend or fracture the blade and cause tissue damage and/or loss of tactile control. Failure to comply may result in patient and/or operating room staff injury.
- Before operating the handpiece, gently tug the blade to verify it is secure. Failure to comply may result in patient and/or operating room staff injury.
- Before operating the handpiece, gently rotate the blade mount to verify it is seated properly (should not rotate, fully recessed). Failure to comply may result in excessive handpiece vibration/noise and patient and/or operating room staff injury.

NOTE: Operate Sagittal Saw Attachment with lower trigger only. Cutting efficiency is lost if both triggers are depressed to operate this attachment in the oscillate mode.

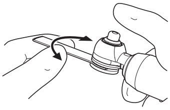
1. Insert the blade into the blade mount retaining gap.



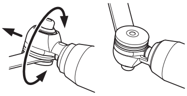
2. Depress the button to allow the blade to fully enter the gap and seat against the post, then release the button.



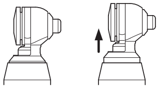
3. Gently rotate the blade against the post until it snaps into the desired location. If necessary, depress the button again to rotate the blade to the desired location.

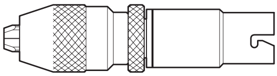


4. To index the blade mount, pull out and slightly rotate the mount until it snaps (recesses) into the desired location. The blade mount will index in 45-degree increments or eight possible locations.



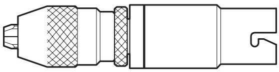
Additional Cleaning Recommendation
Pull out and slightly rotate the blade mount to expose the additional surface area around the mount. Using a stiff non-metallic bristle brush, remove debris from the exposed surface area.





1/4” Keyless Drill Chuck (4100-133-000)

Handles wires, pins, and drill bits up to 1/4 in. (6.4 mm) diameter.



1/8” Keyless Drill Chuck (4100-134-000)

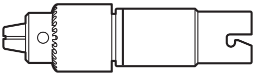
Handles wires, pins, and drill bits up to 1/8 in. (3.2 mm) diameter.

Operating Instructions

Cutting Accessory Insertion

WARNING: You must manually close the chuck jaws to secure the accessory. Operating the handpiece to automatically close the jaws on the accessory may result in injury to the user.

1. Open the chuck jaws by holding the attachment with the knurled ring in one hand and turning the collar with the other hand.
2. Insert the cutting accessory and make certain it is centered in the jaws.
3. Close the jaws by holding the collar and turning the knurled ring until tight.
4. Tug the cutting accessory to ensure it is secure.
5. Visually verify that the cutting accessory is centered in the jaws.
6. Install the attachment in the handpiece.

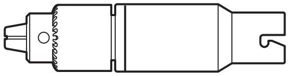


1/4" Keyed Chuck (4100-131-000)

Handles wires, pins, and drill bits up to 1/4 in. (6.4 mm) diameter.

5/32" Drill (4100-132-000)

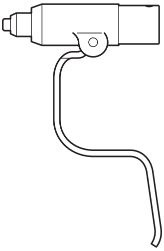
Handles wires, pins, and drill bits up to 5/32 in. (4 mm) diameter.



1/4" Reamer (4100-231-000)

Handles wires, pins, and drill bits up to 1/4 in. (6.4 mm) diameter with low speed and high torque.

Chuck style accessories are supplied with a chuck key.



Wire Collet (4100-062-000)

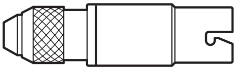
This collet comes with the Cordless Driver handpiece and holds K-wires having diameters from .028 -.071 in. (0.7 - 1.8 mm).

Pin Collet (4100-125-000)

This optional collet holds pins having diameters from .078 - .125 in. (2.0 - 3.2 mm).

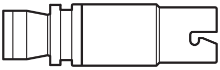
To operate the Cordless Driver with the Wire Collet or Pin Collets

1. Load the wire or pin into the nose of the collet or back cap of the handpiece.
2. Move the safety switch out of the safety position.
3. Squeeze the wire advance control lever against the instrument to hold the wire at the desired length exposed from the distal end of the instrument.
4. Hold the wire or pin against the bone, then depress the trigger to drive the wire or pin.
5. To obtain additional wire length for inserting, release the wire advance control and pull back the instrument. Then, squeeze the wire advance control lever and the trigger to drive more wire.
6. To withdraw threaded pins, squeeze the wire advance control lever and then depress the reverse trigger.



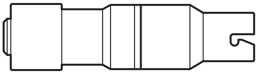
Synthes Drill (4100-110-000)

Accepts Synthes tools such as drill bits, taps and automatic screwdrivers with the appropriate snap-lock shank.



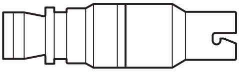
Hudson/Modified Trinkle Drill

(4100-135-000) Accepts tools such as drill bits, and automatic screwdrivers with Hudson or modified Trinkle fitting.



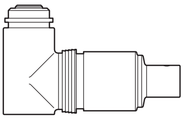
Synthes Reamer (4100-210-000)

Accepts Synthes tools such as drill bits, automatic screwdrivers, and flexible reamers with the appropriate snap-lock shank. Utilizes low speed and high torque.



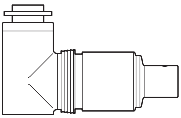
Hudson/Modified Trinkle Reamer

(4100-235-000) Accepts tools such as drill bits, automatic screwdrivers and flexible reamers with a Hudson or modified Trinkle fitting. Utilizes low speed and high torque.



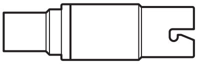
Right Angle Drive Synthes Reamer

(4100-310-000) Accepts all Synthes tools with the appropriate snap-lock shank.



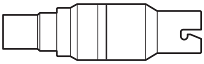
Right Angle Drive Modified Trinkle Reamer

(4100-335) Accepts tools with modified Trinkle fitting.



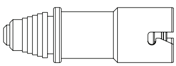
Trinkle Drill (4100-160-000)

Accepts tools such as drill bits and automatic screwdrivers with standard Trinkle fitting.



Trinkle Reamer (4100-260-000)

Accepts tools such as drill bits, automatic screwdrivers and flexible reamers with standard Trinkle fitting. Utilizes low speed and high torque.



T-Latch (4100-120-000)

Accepts tools with T-Latch fitting.

To retain a bit or tool in accessories with a retaining collar

1. Slide back the retaining collar.
2. Insert a bit or accessory.
3. Release retaining collar.
4. Twist bit/accessory to check for proper retention before running handpiece.