Star PROPHY STAR 3 SW

NON-STERILE MD

℞ ONLY

DENTALEZ

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StarDental® Division
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DO NOT USE FOR ORAL SURGERY

Before operating the handpiece, carefully read and follow all of these instructions. Save these instructions for future reference and observe all warnings and cautions.

INDICATIONS FOR USE

The Prophy Star®3 SW® Handpiece is used by trained dental professionals to perform dental prophylaxis.

℞ ONLY	Caution: U.S. Federal law restricts this device to sale by or on the order of a licensed physician.

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SPECIFICATIONS

Prophy Star 3 SW , StarDental Part #266281

Diameter x Length:	.660in x 4.257in (16.76mm x 108.99mm)
Operating Speed:	0 to 5000 rpm
Weight:	70 grams
Operating Air Pressure:	35-40 psi (2.46 to 2.81 kgs/cm$_2$)
Line Configuration:	4-Line
Filtration:	25 micron air filter recommended
Attachments:	ISO standard Doriot style disposable prophy angles

135°C SSS	Sterilizable up to 135°C

INSTALLATION & OPERATION

Materials Provided: Prophy Star 3 SW, (Fig. 1) Cleaning Brush, Instructions

NOTE: Before installing the Prophy Star 3 SW, be sure the air filter operates efficiently. Verify recommended air filtration of 25 microns. Recommended air pressure, while operating, is 35 to 40 psi, see #2.

FIG. 1

NOTICE If delivery unit has oil/mist lubrication, detach and drain; handpiece is LubeFree.

INSTALLATION & OPERATION, CONT.

1. Verify that the back end of the swivel corresponds to the delivery system's tubing configuration (ISO standard 4-line configuration) and connect swivel to the tubing. (Fig. 2 and 3)

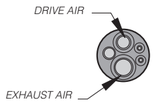


FIG. 2

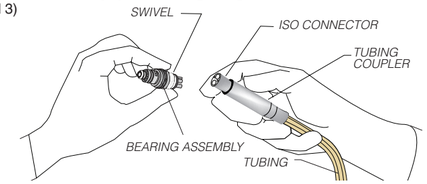


FIG. 3

2. Mount 4/6-line air pressure gauge (Fig 4), between the handpiece and swivel connected to the air supply tubing to obtain a reading. Adjust air pressure until gauge reads 35-40 psi while operating handpiece with foot control completely depressed.

FIG. 4

NOTE: Operating pressure must be maintained between 35 psi and 40 psi.

NOTE: If a gauge is not available, set pressure at delivery head allowing 1 psi pressure loss for every foot of tubing. For example, to operate at 35 psi and using either 5 feet or 12 feet of tubing the pressure should be set at the delivery head to compensate for the air pressure losses:

5 feet of tubing	35 psi + 5 psi = 40 psi
12 feet of tubing	35 psi + 12 psi = 47 psi

3. After adjustment, disconnect the pressure gauge and install handpiece as follows.
4. Grasp the handpiece at the bottom between the thumb and finger as shown in Fig 5.

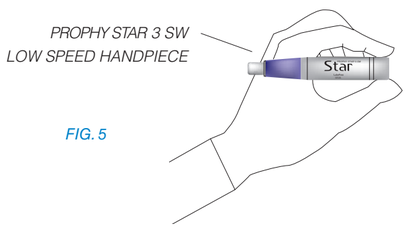
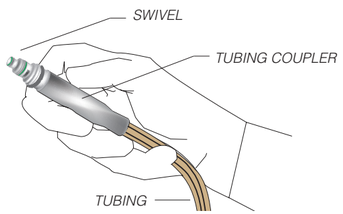


FIG. 5



5. Snap the Prophy Star 3 SW handpiece onto the swivel that has been connected to the tubing coupler.

DISPOSABLE PROPHY ANGLE INSTALLATION

NOTE: Metal prophy angles are not recommended to be used with the prophy handpiece. Prophy angles with plastic stems with ISO standard Doriot couplings may be used. Attachments other than prophy angles are not recommended with this handpiece.

1. Insert the stem of the prophy angle into the chuck of the handpiece while making sure that the slot is aligned with the nose pin. (Fig. 6)
2. Push the angle until the slot is fully seated around the nose pin.

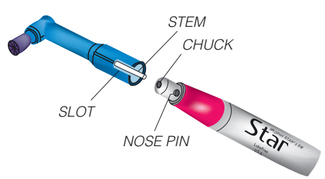
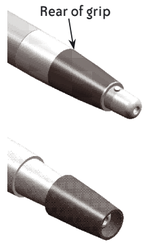


FIG. 6

NOTE: To remove the angle, simply pull the angle out of the handpiece.

REMOVAL OF GRIP



1. With thumb at rear of grip, (Fig 7) push down and forward.
2. Continue pushing until grip clears nosepiece.

NOTE: Do not pull or peel to remove.

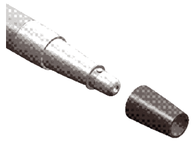
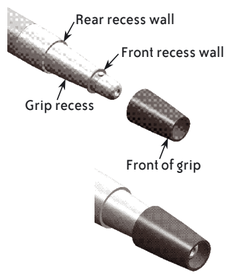


FIG. 7

INSTALLATION OF GRIP



1. Push grip onto nosepiece at front of grip (Fig 8).
2. Continue pushing until grip fits in nosepiece grip recess. Grip should rest against front and rear recess wall.

FIG. 8

SAFETY INSTRUCTIONS

TO MINIMIZE RISK OF SERIOUS INJURY:

⚠WARNING

- Always pull lightly on angle after mounting to handpiece to confirm that the angle is secured.

⚠CAUTION

TO MINIMIZE RISK OF INJURY OR DAMAGE TO HANDPIECE OR ANGLE:

- Before use, verify concentric rotation by operating the handpiece outside the oral cavity in a safe place. Do not use angles that do not run concentrically or produce excessive noise.
- Never operate handpiece without an angle installed.
- Use only recommended angles to prevent damage to chuck. An improperly inserted angle may dislodge during use, causing injury to you or your patient.

CLEANING AND STERILIZATION

⚠ **CAUTION**	It is the responsibility of the user to use only FDA compliant sterilizing equipment and accessories that are capable of meeting the manufacturers recommendations below.
⚠ **CAUTION**	Do not exceed 135°C Do not use: • dry heat sterilizer • cold sterilizers • ultrasonic cleaners • hand soaps • surface sprays • surface wipes • chemical disinfectors • surgical milk • detergents • immersion techniques • sterilizer bags containing disinfectants
LIMITS ON REPROCESSING	Repeated processing has minimal effect on these attachments. End of life is normally determined by wear and damage due to use.
INSTRUCTIONS	
⚠ **WARNING**	Clean and sterilize handpiece as soon as practical before first use and after each patient.
CONTAINMENT AND TRANSPORTATION:	It is recommended that handpieces are reprocessed as soon as is reasonably practical following use.
PREPARATION FOR CLEANING:	Remove handpiece from dental unit tubing; remove angle from handpiece. No further disassembly is required.
CLEANING - AUTOMATED:	Washer-disinfectors are not recommended.
CLEANING - MANUAL:	Cleaning chuck: Insert round end of brush (Fig 9), StarDental Part #203043, straight into chuck and withdraw. NOTE: Do not rotate brush while inserting or removing. After removing brush, tap nose of chuck to expel debris. ⚠ **CAUTION** Do not adjust or disassemble the handpiece. Handpiece: Remove debris from external surfaces using a small brush and isopropyl alcohol. Dry thoroughly. Repeat after each patient. *FIG. 9*
LUBRICATION:	The Prophy Star 3 SW Handpiece is LubeFree and therefore requires no lubrication. At times, debris from the delivery system's drive air tubing collects in the handpiece. This build up may cause sluggish operation. To ease, place 1 drop of DentaLube II, StarDental® Part #262539, into the drive air tube, and operate the handpiece for 15 seconds.
DISINFECTION:	Use steam sterilization exclusively for complete sterility as outlined below.
MAINTENANCE:	See 'Cleaning' above The Prophy Star 3 SW Handpiece should be routinely maintained, checked for corrosion, worn parts, etc. and should be replaced on an as needed basis.
INSPECTION & FUNCTION TESTING:	See Installation, Operating Recommendations, and/or Troubleshooting sections of this manual.
PACKAGING:	Single: A standard sterilization packaging material must be used. Ensure that the pack is large enough to contain the item without stressing the seals. In sets: Handpieces may be loaded into dedicated instrument trays or general purpose sterilization trays. Ensure that cutting edges are protected and do not exceed the tray manufacturer's limit per tray. Wrap the trays using appropriate packaging materials and methods.
WRAPPED INSTRUMENT STERILIZATION:	Gravity Type Autoclave: • Minimum of 15 minutes at 132° C • Minimum of 30 minutes at 121° C Do not exceed 135° C Pre-Vacuum Autoclave: • Minimum of 4 minutes at 132° C
DRYING:	Dry the handpiece for 30 minutes minimum using the sterilization dry cycle and allow the handpiece to cool to room temperature in bag prior to use. If moisture is present, increase your sterilizer dry cycle appropriately.
STORAGE:	Store in bag after sterilization until ready to use.
ADDITIONAL INFORMATION:	Do not exceed the sterilizer manufacturer's guidelines for load capacity. Use only paper or paper/plastic bags.
MANUFACTURER CONTACT:	See first or last panels of this manual.

TROUBLESHOOTING

PROBLEM: LOW POWER

Cause: Debris buildup
Correction: Refer to Cleaning

Cause: Faulty angle
Correction: Replace angle

Cause: Air pressure too low
Correction: Verify proper handpiece air pressure

Cause: Crimped Tubing
Correction: Straighten tubing inside and outside of tubing delivery head

Cause: Swivel not threaded fully onto tubing
Correction: Refer to applicable Installation section.

Cause: Brittle swivel silicone rubber seal
Correction: Replace silicone rubber seal for 2/3-line swivel with StarDental Part #203103 and 4-line with StarDental Part #202897.

Cause: Swivel O-rings worn
Correction: Replace swivel O-rings, StarDental Part #259884.

PROBLEM: SWIVEL WILL NOT DISENGAGE FROM PROPHY

Cause: Build-up of debris
Correction: Place 3 drops of DentaLube II, StarDental Part #262539, into the swivel/tubing connector. Rotate swivel to circulate lubricant. Disengage handpiece. Contact dealer if unable to disengage swivel. To prevent reoccurrence, refer to Cleaning.

PROBLEM: PROPHY ANGLE SLIPS IN CHUCK

Cause: Insufficient clamp load between chuck and drive stem of prophy angle
Correction: Replace faulty prophy angle with a prophy angle that meets ISO standards for drive stems

Cause: Build up of debris in chuck
Correction: Clean chucking mechanism
Refer to Cleaning Prophy Chuck

PROBLEM: PROPHY ANGLE VIBRATES EXCESSIVELY

Cause: Angle is out of balance
Correction: Install new prophy angle

NOTE: If a problem persists, contact dealer for further assistance; or contact StarDental Technical Service at 1-866-DTE-INFO.

REPLACEMENT PART NUMBERS

ALWAYS INSIST ON STARDENTAL PARTS FOR BEST PERFORMANCE.

DESCRIPTION	*ITEM NUMBER*
Prophy Star 3 SW	266281
Cleaning Brush	203043
Rear Seal, 4-Line (Package of 3)	202897
DentaLube II	262539
Rubber Grips (Package of 4)	264441
Nosepiece	264434
Swivel 2/3 Line	260152
Swivel 4 Line	260144

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IMPORTANT NOTICE ABOUT RETURNING PRODUCT TO DENTALEZ INC.

Anyone wishing to return any DENTALEZ Inc. product to a DENTALEZ facility MUST obtain the proper RETURN AUTHORIZATION NUMBER from the Customer Service Department. The RA Number must appear clearly marked on both the outside and inside of the returned product carton. When calling for a return authorization number you will be asked to provide the following information:

To Obtain A Return Authorization Number Call 1-866-DTE-INFO

1. Product Name, Model Number or Part Number
2. Serial Number of Product
3. Dealer Return Purchase Order Number
4. Reason For Return
5. Copy of Invoice Showing Purchase

Items will be evaluated. Return Authorization Number is not a guarantee for credit. Your cooperation with this procedure will help us expedite processing of any returns.

FOR NEW PRODUCTS, MANUALS AND TECHNICAL INFORMATION, CALL 1-866-DTE-INFO OR VISIT OUR WEB SITE @ WWW.DENTALEZ.COM

LIMITED WARRANTY

O-Rings, Seals, and Rubber Grips are specifically excluded from this warranty.

DENTALEZ® warrants the Prophy Star 3 SW Handpiece for 2 years from the date of purchase*.

Please note the following additional terms of our warranty policy:

- Warranty covers manufacturing defects only and does not cover defects resulting from abuse, accidents, misuse, improper handling, cleaning, care or maintenance or the failure to follow or observe our operating/use, maintenance and/or installation instructions. Damage resulting from the use of chemicals, cleaners, disinfectants or sterilization is not covered under this warranty nor is normal wear and tear. Failure to use authorized parts or an authorized repair facility voids this warranty.
- Liability is limited to repair or replacement of the defective part(s) or products at our sole discretion. All other liabilities, in particular liability for damages, including, without limitation, special, exemplary, consequential or incidental damages are excluded
- THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NO EMPLOYEE, REPRESENTATIVE OR DEALER IS AUTHORIZED TO CHANGE THIS WARRANTY IN ANY WAY OR TO GRANT ANY OTHER WARRANTY.

*Provided conditions in warranty are met.

WARRANTY REGISTRATION

Please visit the website below to register your StarDental product. This will ensure proper registration and prompt and accurate service should any of your purchases need evaluation or repair during the warranty period.

StarDental Products: WWW.DENTALEZ.COM/warranty