

MIDWEST®

Stylus™ Standard

1805, 1815, 3605, 3615, 5405, 5415

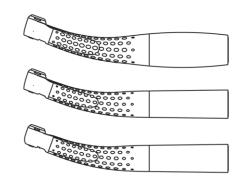
High Speed Handpiece with Fiber Optics & Push Button Chuck



Midwest® Stylus™ Standard 1805, 1815, 3605, 3615, 5405, 5415

High Speed Handpiece with Fiber Optics and Push Button Chuck

Installation, Maintenance and Operation Instructions



Midwest® Stylus™ Standard High Speed Handpiece Standard Description Series SKII Ref 1805 790300 Stylus Stylus Compatible with MULTIflex® LUX Coupler 1815 790330 Stylus Lite 3605 791300 Stylus Lite Compatible with MULTIflex® LUX Coupler 3615 791330

Caution: US Federal law restricts this device to sale by or on the order of a Dentist.

5405

792300

792330

INDICATIONS FOR USE:

Stylus Mini Compatible with MULTIflex® LUX Coupler

Stylus Mini

This air-turbine high-speed handpiece is intended to be used for general dentistry.

CONTRAINDICATIONS:

Do not use this handpiece within the oral cavity when a soft tissue wound is present. Air pressure may force septic materials into these tissues.



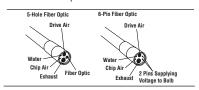
NARNINGS

- This product is intended for use by dental professionals only.
- It is the responsibility of the Dental Healthcare Professional (DHCP) to understand the intended uses of this product, the health of each patient, the dental procedures being undertaken and industry and governmental agency recommendations, requirements, and regulations for safe practice of dentistry.
- Before operating handpiece, carefully read and follow these instructions and save them for future reference.
- Handpieces should be heat-sterilized between patients to prevent cross-contamination which could result in serious illness or even death from infectious organisms such as HIV (the virus that causes AIDS) or hepatitis B.
- Do not cut with the handpiece unless you are sure the bur is secure. Do not extend the bur outward from the handpiece head. A loose or extended bur could eiect from the head or break and cause personal injury.
- Sterilize handpiece prior to first use.
- Midwest turbines should not be rebuilt. Replacing bearings only could result in unexpected failure and patient injury due to different wear factors of new vs. old components.

Installation

Checking Handpiece Hose

Make sure all tubing supplying the handpiece hose is properly connected within the dental unit. Be sure the air and water are delivered to the handpiece as shown in the illustration below.



Air Requirements

The handpiece delivers designed speed and torque when operated with clean, filtered, moisture-free air at the recommended operating pressure of 40 psi (2.7 Atm.) for 1805, 3605, 5405 series and 42 psi (2.9 Atm.) for 1815, 3615, 5415 series. Air pressure should be measured at the handpiece end of the hose.

Have your dealer or serviceman use an analyzer gauge. Connect gauge to hose, then handpiece to gauge. Fully depress foot control and run the handpiece. Adjust drive air pressure to 40 or 42 p.s.i. (see requirements above) as indicated on analyzer gauge. Remove gauge and connect handpiece to hose.

Installation, continued

Midwest Coupler Installation (Applicable instructions for 1805, 3605, 5405 Series)

Do not sterilize coupler. Screw the coupler onto the handpiece hose line. Tighten securely by hand. Coupler remains installed on the hose.



Connecting and Disconnecting Handpiece From Midwest Coupler (Applicable instructions for 1805, 3605, 5405 Series)

Insert handpiece into coupler until it "clicks" into place. Check for secure connection by tugging on the handpiece.

To disconnect, push both buttons at the base of coupler and remove

handpiece. Coupler remains installed on the hose.



NOTE: Do not attempt to remove handpiece from coupler without pushing buttons at the base of coupler!

WARNING: DO NOT depress coupler removal buttons during operation. Doing so may result in handpiece projecting from coupler.

Connecting and Disconnecting Handpiece From MULTIflex LUX Coupler

(Applicable instructions for 1815, 3615, 5415 Series)

Insert handpiece onto MULTIflex LUX coupler until it audibly "clicks" into place. Check for secure connection by gently tugging on the handpiece.

Installation, continued

To disconnect, pull and twist handpiece while securely holding coupler and hose nut. Coupler remains installed on the hose.

Water Spray Requirements

The Midwest Stylus uses delivery unit chip air to deliver fine mist water spray. The recommended operating pressure for chip air is 25 psi for 1805, 1815, 360S, 361S series and 30 psi for 540S, 541S series. The recommended operating pressure for water is 12 psi for 180S, 181S, 360S, 361S series and 6 psi for 540S, 541S series. If you get a stream of water instead of a fine mist, adjust water and chip air pressure to achieve desired spray mist.

Water Supply Recommendations

• It is highly recommended that all dental water supply systems

conform to applicable CDC (Centers for Disease Control and Prevention) and ADA (American Dental Association) standards, and that all recommendations be followed in terms of flushing, chemical flushing and general infection control procedures.

 As a medical device, this product must be installed in accordance with applicable local, regional and national regulations including guidelines for water quality.

Cleaning and Maintenance

DENTSPLY recommends the following steps between each patient use to prevent cross-contamination and to ensure continued trouble-free operation of your Stylus handpiece.

IMPORTANT: Use only Midwest® Plus™ Aerosol Spray as recommended by DENTSPLY to maintain your handpiece. See **Parts** section for ordering information.

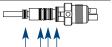
Cleaning and Maintenance, continued

Scrub and Rinse

- 1. Disconnect handpiece from coupler.
- 2. Push button to remove bur.
- Scrub and rinse handpiece under warm tap water with a soft brush or sponge. While scrubbing and rinsing, it is best to keep the handpiece in the upright position (see illustration at below).
- Make sure fiber optic light port near head of handpiece is scrubbed well. Once a week or as needed, gently rub an alcohol-soaked cotton swab against both ends of the fiber optic element to remove debris.



DENTSPLY Professional also recommends lightly lubricating the coupler O-rings with Midwest Plus Handpiece Lubricant.



Lubricate and Expel Using Midwest Plus™ Aerosol Spray

1. While holding can of Midwest Plus™ Aerosol Spray upright, insert

Cleaning and Maintenance, continued

nozzle fully into handpiece (without a bur). Cover head of handpiece with Midwest spray guard or paper towel. Spray for no more than one (1) second. If excess debris appears, spray again for one (1) second.

Run handpiece (without a bur) until it reaches normal speed, or until all excess lubricant is expelled (a minimum of 20 seconds). Expel in operatory or using Midwest Air Station. Wipe off any excess lubricant on outside of handpiece with a dry gauze pad or paper towel.

3. On a weekly basis or if button gets stiff, spray Midwest Plus™ Aerosol Spray into chuck for one second.



NOTES:

- A KaVo MULTIflex lubricating nozzle will conveniently fit onto Midwest Plus™ Aerosol Sprav.
- of the Wildwest First Aerosof Spray.

 If a coupler is needed for use with Midwest Air Station, order Midwest Maintenance Coupler, REF 380090.

 (For 180S, 360S, 540S series.)

Cleaning Water Spray Holes

Run the cleaning wire (supplied with your handpiece) back and forth in the water spray holes and in the air spray holes to loosen and remove any mineral build-up at spray surface.

Water Holes Air Holes





Bag and Autoclave

Insert handpiece (without a bur) into sterilization bag and load into autoclave. (DENTSPLY Professional recommends using sterilization bags with at least one paper side.) Handpieces should be processed in the autoclave for 15 minutes at a sterilization temperature of 135°C/275°F.

For cassette chamber saturated steam devices, handpieces should be processed <u>unbagged</u> for 3.5 minutes at a sterilization temperature of 135°C/275°F.

Keep handpiece in bag until ready to use in the operatory.

Operation

Insert the coupler into the handpiece until it "clicks" into place. Check for secure connection by tugging the handpiece. To operate the handpiece, simply depress the foot control on your dental unit. **Note:** The Midwest Stylus uses delivery unit chip air to deliver fine mist water spray. If you get a <u>stream</u> of water instead of a fine mist, just increase the "chip air" or "coolant air" on the delivery unit until the desired fine mist spray is achieved (see page 5 for recommended settings).

Operation, continued



CAUTION: Never operate the handpiece under the following conditions:

- 1. In the presence of a soft tissue wound.
- 2. With a bur extended out from handpiece head.
- 3. Under "no load" conditions for extended periods of time.
- At air pressure exceeding 40 p.s.i. (2.7 Atm.) for 180S, 360S, 540S series and 42 psi (2.9 Atm.) for 181S, 361S, 541S series.
- 5. With a loose or bent bur.
- If you experience a sudden and noticeable change in handpiece noise or vibration.
- If bur moves forward more than 1 mm while operating handpiece.

Recommended Burs & Diamonds For:

180S and 360S Series

- Regular Friction Grip (FG) burs
- Shaft diameter of 1.6 mm per ISO 1797-1
- Total length not to exceed 23 mm

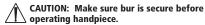
540S Series

- Regular Friction Grip (FG) or Short Shank (SS) burs
- Shaft diameter of 1.6 mm per ISO 1797-1
- Total length not to exceed 23 mm

Operation, continued

Installing and Removing Burs

To install a bur: Insert the bur into the handpiece until you meet resistance. Now press the button and push the bur all the way into the chuck until it stops.



To remove bur: Push the button to open chuck and remove bur.

Note: The water spray will adequately cover bur and diamond cutting instruments up to .906 inches (23 mm) long. You can fine tune the water spray by adjusting the chip air on your unit.



WARNING: Use of cutting instruments over .906 inches (23 mm) in length could possibly result in handpiece failure or personal injury due to bur ejection or inadequate cooling.



WARNING: Do not extend burs outward from handpiece head. Burs must be inserted all the way into chuck for proper bur retention. Extended burs could result in personal injury due to bur ejection, bent burs, or inadequate cooling.





Repair — Within the United States

Midwest Air Repair™ Service

Should your Midwest Stylus High Speed Handpiece need repair, call **1-800-800-7202** to schedule a free pick-up:



Send to:

DENTSPLY Professional Division Midwest Dental Products

Attn: Midwest Air Repair 901 West Oakton Street Des Plaines, IL 60018-1884 Provide the following infomation with your repair:
Your complete name and address
Dealer name and address

Air Repair offers:

Nature of repair

- Repairs DOOR TO DOOR ROUNDTRIP IN 2 BUSINESS DAYS
- Genuine Midwest Parts and Midwest Quality
- Expert Troubleshooting and Diagnosis
- Repair Service Warranty equal to the new product warranty

For Customers Outside the United States, Contact Your DENTSPLY Representative.

Parts	REF	Parts	REF
Midwest Plus Aerosol Spray		Replacement o-rings, 5-Hole Coupler	
500 ml. Cleaner/Lubricant	380080	2 sets	790255
Midwest Plus Nozzle		Replacement o-rings, 6-Pin Coupler	
Nozzle for above	380085	2 sets	790256
Midwest Handpiece Air Station			730230
includes box of 12 FREE Spray Guards	380800	Replacement Bulbs for 6-Pin Coupler	
Midwest Maintenance Coupler		and 5-Hole Power Optic Tubing	
for use with Air Station	380090	package of 2	790257
Midwest Spray Guards		Handpiece Gaskets:	
Box of 100	380150	5-Hole Fiber Optic, Blue	773018
Cleaning Wire	300130	6-Pin Coupler, Clear	790258
3	464407		
for all Midwest Stylus Handpieces	464197		

Warranty

Your Midwest® Stylus™ Handpiece is guaranteed to be free of defects in materials and workmanship for a period of eighteen (18) months from its date of purchase — provided that the handpiece has been operated and maintained as prescribed in these instructions (at the discretion of DENTSPLY Professional) and has not been subjected to apparent misuse, abuse or accident. All questionable, defective, or loose parts must be returned to the dealer, with handpiece and proof of purchase, transportation prepaid.

The Fusion Optics™ fiber optics in your Midwest Stylus handpiece is guaranteed to be free of defects in materials and workmanship for a period of five (5) years from date of purchase — provided that

the handpiece has been operated and maintained as prescribed in these instructions (at the discretion of DENTSPLY Professional) and has not been subjected to apparent misuse, abuse or accident. All questionable, defective, or loose parts must be returned to the dealer. with proof of purchase, transportation prepaid.

Within the United States:

The enclosed business reply card (warranty registration) must be filled out completely and returned within ten (10) days of purchase for this warranty to apply. DENTSPLY Professional makes no other quarantees, expressed or implied.

For the Dentist and Staff:

Handpiece Infection Control and Maintenance Information

Information on your Midwest Repair

Handpiece Problem Solving

Phone: 1-800-800-7202 1-847-640-4800

Web: www.professional.dentsply.com



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Des Plaines. IL 60018-1884 USA

MIDWEST AIR REPAIR
FACTORY CERTIFIED SERVICE
1-800-800-7202

Outside the United States: Contact your DENTSPLY Representative

European Union Representative: DENTSPLY DeTrey GmbH De-Trey Strasse 1 D-78467 Konstanz - Germany





Canada: DENTSPLY Canada 161 Vinyl Court Woodbridge, Ontario L4L4A3

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800-263-1437

Operating a quality system which complies with the requirements of ISO 13485:2003

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