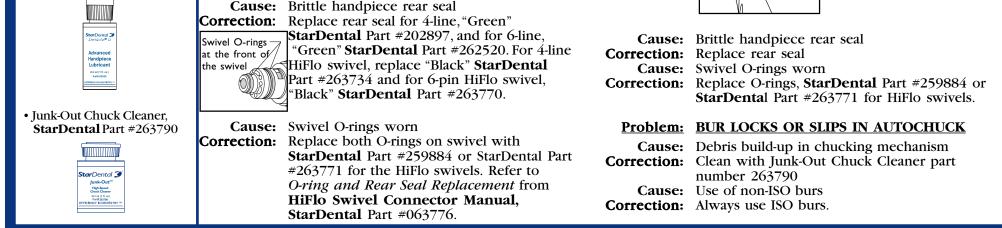
Lube Free High Speed Handpiece Maintenance Chart				
The 430 Series does not require lubrication.				
	For your convenience the Star 430 and Solara Handpiece Series contain a sophisticated autochuck turbine with ceramic bearings. Lubrication of the turbine is not required. To ensure the life of the maintenance-free bearings, do not lubricate!			
	, Ç	430 K®	430 SW	430 SWL®
	St	arDental Part #262052	StarDental Part #2620	57 StarDental Part #262054
		Solara [®]	Sola	araPlus™
		StarDental Part #20	53718 Sta	rDental Part #263719
CLEANING	CLEAN AFTER EACH PATIENT 1. Wear puncture-resistant gloves to prepare any handpiece for sterilization.			
(clean after each use)	 Wear puncture resistant goves to prepare any nanuplece for sternization. Remove bur from handpiece. Disconnect fixed back end handpiece from tubing coupler. For SW, SWL, Solara, and SolaraPlus, disconnect handpiece from swivel. Swab all internal surfaces at rear of handpiece with 			
You Will Need:	 cotton swab soaked in isopropyl alcohol until clean. 4. Clean all external surfaces using a small toothbrush with <u>isopropyl alcohol</u> only. 			
• Tooth Brush	 5. Place handpiece in sterilization bag. Use only paper or paper/plastic bags. Do not exceed 135° C. See <i>Sterilization</i>. <u>NOTE: Clean chuck once a week with Junk-Out High-Speed Chuck Cleaner Kit P/N 263790:</u> 			
IsopropylAlcohol	NOTE: Clean chuck once a week with Junk-Out High-speed Chuck Cleaner Kit P/N 265/90: Shake well before use Install brush to handle. See diagram at right.			
• Cotton Swab	Use one new brush per cleaning application. Do not reuse brushes . Remove bur from chuck.			
	Dip brush into bottle. Remove excess cleaner from the brush. Insert brush into bur end of turbine.			
	Clean gently by rotating and inserting the brush in and out of the turbine.			
	Reseal cap on bottle immediately after use to reduce evaporation.			
STERILIZATION	-The handpiece must be cleaned and sterilized between patient use. -A <i>wrapped</i> handpiece should be steam sterilized at 132°C for a minimum of 10 minutes or at 121°C for a minimum of			
(Sterilize after each use)	50 minutes. Do not exceed 135°C.			
	-An <i>unwrapped</i> handpiece should be steam sterilized at 132°C for a minimum of 8 minutes or at 121°C for a minimum			
	of 30 minutes. Do not exceed 135°C. Note: <i>An unwrapped handpiece needs to be used immediately or sterility is not maintained.</i>			
	-Do not exceed the sterilizer manufacturer's guidelines for load capacity.			
	-Do not remove handpiece from sterilizer before the drying cylce ends. Allow handpiece to cool in bag. Using the handpiece without completing the drying cycle could result in handpiece damage.			
	CAUTION: Use steam sterilization exclusively for complete sterility. Never dry beat sterilize, ultrasonically clean,			
	or expose handpiece or swivel to chemical disinfection or cold sterilization by:			
	 Immersion techniques or Surgical milk Surface wipes, Hand soaps, or Detergents 			
	Surface sprays			
			on bags containing disin	
MOST COMMON		LACK OF POWER Air pressure too low		SWIVEL WILL NOT DISENGAGE FROM HANDPIEC
TROUBLESHOOTING		Verify proper handpiece air pressu	Ire. Correction:	Buildup of debris Place two drops of DentaLube II into swive
TIPS	Carros	(Refer to <i>Handpiece Installation</i> .))	tubing connector area. Rotate swivel to
You May Need:	Correction :	Crimped tubing Straighten tubing inside and outside d Debris buildup	elivery head.	circulate lube. Disengage handpiece. Contact dealer if unable to disengage swivel. To prevent recurrence, refer to <i>Cleaning</i> .
• Disconnect Wrench, StarDental Part #203048		Clean inside of housing and end caj and alcohol. Lubricate inside of ho		IMPROPER SPRAY
		DentaLube II before assembly.	• <u></u>	Clogged filters, tubes or water ports
		Clean debris from inside of		Inspect and clean water filter in delivery head
		housing		Disconnect handpiece. Depress foot control; verify water exits the swivel.
• Cleaning Wire,	Note: Befor	re cleaning, check for and remove a	ny debris	(If water does not come from swivel, refer to
StarDental Part #256719	from turbin turbine per	ie bousing to prevent damage and	to insure	Cleaning the Swivel.)
	Cause:	Worn out turbine		Center
		Refer to <i>Turbine Replacement</i> .	ina	Spray
• DentaLube II,		Swivel not threaded fully onto tube Refer to <i>Handpiece Installation</i> .	ing	Tube
• DentaLube II, StarDental Part #262539	Problem:	WATER LEAKAGE		
		Brittle handpiece rear seal		\mathbb{N}





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EFFICIENCY IN DENTISTRY®

Lubricated High Speed Handpiece Maintenance Chart LUBRICATE AND CLEAN AFTER EACH PATIENT **LUBRICATING &** Note: For the (431 StarEndurance[™] SWL, SW and K), (StarFlex[®] SWL, SW and K), Solara[®]Lubricated, StarAdvantage[®], **CLEANING** and Concentrix[®] III follow this lubrication procedure only once daily. (clean after each use) Wear puncture-resistant gloves to prepare any handpiece for sterilization. 1. Disconnect fixed back end handpiece from tubing coupler. For SW's, SWL's and Solara, disconnect handpiece from swivel. 2. Assemble conical red tip applicator, **StarDental**[®] Part #202954, into DentaLube II bottle cap. 3. You Will Need: Place 2 drops of DentaLube II, StarDental Part #262539, into the drive air orifice at rear of the handpiece. **4**. Drive Air Applicator Applicator Tooth Brush IsopropylAlcohol Cotton Swab Orifice 431 StarEndurance SW & SWL Concentrix[®] III StarAdvantage[®] • DentaLube II, StarFlex[®] SW & SWL, Solara[®]Lubricated StarEndurance K & StarFlex K StarDentalPart #262539 Reconnect handpiece to swivel or directly to tubing and operate for 20 seconds to expel excess lubricant. 5. Never operate handpiece without bur in place. 6. Remove bur from handpiece. Disconnect fixed back end handpiece from tubing coupler. For SW's and SWL's, 7. disconnect handpiece from swivel.Swab all internal surfaces at rear of handpiece with cotton swab soaked in isopropyl alcohol until clean. Advanced Clean all external surfaces using a small toothbrush with **isopropyl alcohol** only. 8. Cotton Swab Lubricant Place handpiece in sterilization bag. Use only paper or paper/plastic bags. 9. Do not exceed 135° C. See Sterilization. NOTE: Clean chuck once a week with Junk-Out High-Speed Chuck Cleaner Kit P/N 263790: Shake well before use • Junk-Out Chuck Cleaner, Install brush to handle. See diagram at right. StarDental Part #263790 Use one new brush per cleaning application. Do not reuse brushes. Remove bur from chuck. Dip brush into bottle. Remove excess cleaner from the brush. Insert brush into bur end of turbine. Clean gently by rotating and inserting the brush in and out of the turbine. Repeat process if necessary. Reseal cap on bottle immediately after use to reduce evaporation. -The handpiece must be cleaned and sterilized between patient use. **STERILIZATION** -A *wrapped* handpiece should be steam sterilized at 132°C for a minimum of 10 minutes or at 121°C for a minimum of (Sterilize after each use) 50 minutes. Do not exceed 135°C. -An unwrapped handpiece should be steam sterilized at 132°C for a minimum of 8 minutes or at 121°C for a minimum of 30 minutes. Do not exceed 135°C. Note: An unwrapped handpiece needs to be used immediately or sterility is not maintained. -Do not exceed the sterilizer manufacturer's guidelines for load capacity. -Do not remove handpiece from sterilizer before the drving cylce ends. Allow handpiece to cool in bag. Using the handpiece without completing the drying cycle could result in handpiece damage. CAUTION: Use steam sterilization exclusively for complete sterility. Never dry beat sterilize, ultrasonically clean, or expose handpiece or swivel to chemical disinfection or cold sterilization by: • Immersion techniques or Surgical milk • Surface wipes, Hand soaps, or Detergents • Surface sprays • Sterilization bags containing disinfectants Problem: LACK OF POWER **MOST COMMON** Problem: SWIVEL WILL NOT DISENGAGE FROM HANDPIECE **Cause:** Air pressure too low TROUBLESHOOTING **Cause:** Buildup of debris **Correction:** Verify proper handpiece air pressure. Correction: Place two drops of DentaLube II into swivel/ TIPS (Refer to Handpiece Installation.) tubing connector area. Rotate swivel to Cause: Crimped tubing circulate lube. Disengage handpiece. Contact You May Need: **Correction:** Straighten tubing inside and outside delivery head. dealer if unable to disengage swivel. To prevent recurrence, refer to Cleaning. **Cause:** Debris buildup DisconnectWrench. **Correction:** Clean inside of housing and end cap with swab StarDental Part #203048 and alcohol. Lubricate inside of housing with Problem: IMPROPER SPRAY DentaLube II before assembly. Clean debris from Cause: Clogged filters, tubes or water ports **Correction:** Inspect and clean water filter in delivery head. inside of housing Disconnect handpiece. Depress foot control; verify water exits the swivel. Bearings (If water does not come from swivel, refer to • Cleaning Wire, Note: Before cleaning, check for and remove any debris Cleaning the Swivel.) StarDental Part #256719 from turbine bousing to prevent damage and to insure turbine performance. **Cause:** Worn out turbine Center **Correction:** Refer to *Turbine Replacement*. Spray C. **Cause:** Swivel not threaded fully onto tubing Tube **Correction:** Refer to *Handpiece Installation*. DentaLube II.





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