

NSK iCare Quick Operation Guide

Be sure to prime iCare with the Maintenance Oil when using the product for the first time.



Be sure to prime iCare with the Maintenance Oil when using the product for the first time or after draining the oil from the oil tank in accordance with Operation Manual "6. Oil priming". Lack of oil priming may reduce the performance of the product.

Attaching Handpiece

Air Turbine

When connecting Air Turbine

- ① Remove the bur from the handpiece.
- ② Open the iCare Door, insert the adaptor (option) to the shape of the air turbine joint, and tighten the nut securely.
- ③ Insert the air turbine into the adaptor (Fig.1).
- ④ Push and pull the handpiece to be sure that it is securely attached.
- ⑤ Point the bur insertion hole toward the door and close the door securely.

*When connecting a Midwest 4 Hole air turbine, insert the air turbine to the shape of the air turbine joint, and tighten the nut securely.

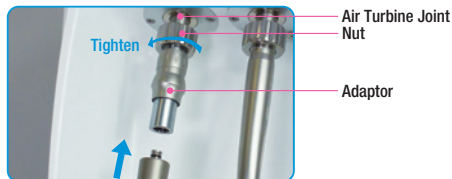


Fig.1

E Type handpiece

When connecting Contra Angle Handpiece

- ① Remove the bur from the handpiece.
*When connecting Straight Handpiece, insert the supplied Test Bur into the handpiece and lock the chuck by turning the Bur Lock Ring (Fig.2).
- ② Open the iCare door and attach the handpiece to the E-Type handpiece joint until it locks (Fig.3).
- ③ Push and pull the handpiece to be sure that it is securely attached.
- ④ Point the bur insertion hole toward the door and close the door securely.

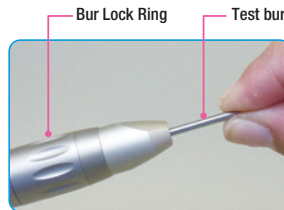


Fig.2

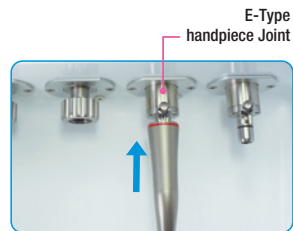


Fig.3



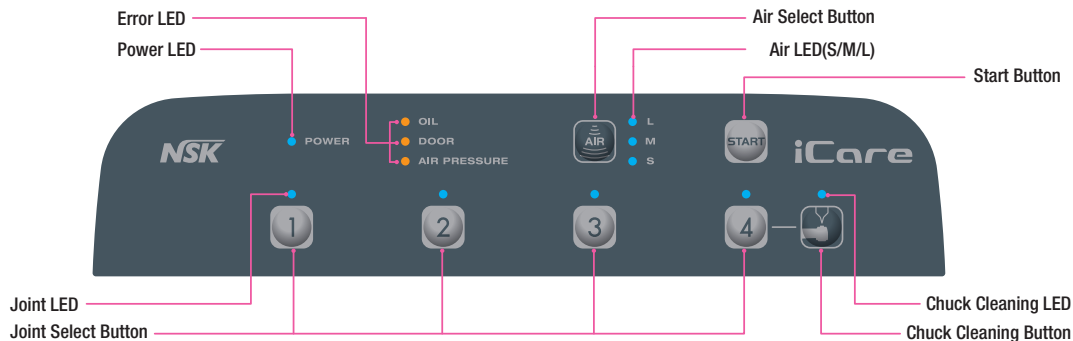
For Contra Angle and Air Turbine Handpieces point the Bur Insertion Hole towards the door and close the door (Fig.4). Mist Filters absorb the oil coming out of the handpiece.




Fig.4

Lubrication and internal cleaning

<Control Panel>




<Operation>

- 1 Turn on (I side)  the Power Switch.
- 2 Check whether Error LED illuminates or not (Chart 1).
- 3 Press the Joint Select Button to select the joint to which handpiece is attached. The relevant LED light will illuminate.
- 4 Press the Air Select Button to select an air purge mode among S, M and L (Chart 2).

Error LED	Cause of error	Check/Remedy
Error LED (Oil) illuminates	There is a small remaining amount of oil (Remaining amount is 150ml or less).	Refill oil. (However, the device can be used for a while after the LED lights up.)
Error LED (Door) illuminates	The door is OPEN before or during maintenance operation.	Close the door before or during maintenance operation.
	The door is CLOSED before Chuck cleaning.	Open the door before Chuck cleaning.
Error LED (Air Pressure) illuminates	The supplied air pressure is out of the allowable range of the product specification.	Confirm whether the supplied air pressure is correct.
Error LED (Oil) blinks	Failure of parts	Contact your Authorized NSK Dealer for repair.
Error LED (Door) blinks	Failure of parts	Contact your Authorized NSK Dealer for repair.
All of Error LED (Oil), Error LED (Door) and Error LED (Air Pressure) blink	Failure of parts	Contact your Authorized NSK Dealer for repair.

Chart 1

- 5 When the Start Button is pressed lubrication starts. The Joint LED blinks during lubrication.
- 6 When lubrication is completed, a beep sounds and the Joint LED turns off.

 If debris is contained in the oil expelling from a handpiece even after lubrication, lubricate the handpiece again.

Mode	Joint	Handpiece
S mode (Short)	Air Turbine Joint	Air Turbine (M4/B2 type only)
	E-type Handpiece Joint	Contra Angle Handpieces, Straight Handpieces (The oil drainage time is shorter than that in M mode)
M mode (Medium)	Air Turbine Joint	Air Turbine (Other than M4/B2 type)
	E-type Handpiece Joint	Contra Angle Handpieces, Straight Handpieces
L mode (Long)	Air Turbine Joint	Handpieces from which oil cannot be drained sufficiently in M mode. (The oil drainage time is longer than that in M mode).
	E-type Handpiece Joint	

Chart 2

Chuck Cleaning

This product can clean the Chuck of Air Turbine and Contra Angle handpieces.


- 1 Insert the chuck cleaning nozzle into the Joint "4" until it locks (Fig. 5).
- 2 Press the Chuck Cleaning Button to illuminate the Chuck Cleaning LED.
- 3 Holding the handpiece securely by hand, insert the chuck cleaning nozzle into the bur insertion hole of the handpiece (Fig. 6).
- 4 Press the Start Button and chuck cleaning will start. The Chuck Cleaning LED will blink during cleaning.
- 5 When cleaning is completed, a beep sounds and the Chuck Cleaning LED will turn off.
- 6 Lubricate the handpiece following Operation Manual in "8-1 Attaching Handpiece" and "8-2 Lubrication and internal cleaning".



Chuck Cleaning Nozzle Fig.5



Fig.6

 Do not clean the chuck of NSK Straight Handpieces as this may cause handpiece malfunction.

Filling with Maintenance Oil

- ① Open the Cover.
- ② Remove the Oil Fill Cap by turning it counter clockwise.
- ③ Remove the cap for Maintenance Oil and install the Oil Filling Nozzle.
- ④ Fill with Maintenance Oil slowly (Fig. 7).
- ⑤ When filling is complete, securely attach the Oil Fill Cap by turning it clockwise.



- Do not fill Maintenance Oil in a room where there is a risk of explosion or fire.
- Do not overfill Maintenance Oil in order to avoid accidental oil leaks. Pour slowly.



Fig.7

Maintenance of iCare

Cleaning the iCare

- ① Turn OFF (O side) the Power Switch.
- ② Remove the AC power cord from Unit.
- ③ Wipe the surface using a cloth moistened with water, warm water or soapy water (neutral detergent), then again wipe using another cloth moistened with disinfectant alcohol.



- Never use solvent such as benzene or thinner for cleaning.
- Do not leave an alcohol-immersed cloth in contact with the Unit for a long period. Bleaching, deformation or failure of the Unit may occur.

NOTICE

- The door can easily be detached when necessary and be cleaned with tap water (See Operation Manual "9-2 Detaching and reattaching the Door").

Draining the Air Filter

- ① When water accumulates in the Air Filter case, press the Drain Button at the bottom of the case to drain the Air Filter (Fig. 8).
- ② In addition to the Air Filter, drain the air supply attached to this device (Air Compressor) at least once a week.



Fig.8



- Drain the Air Compressor and Air Filter at least once a week as required. Moisture from the tank could mix with the Maintenance Oil.

- See Operation manual "9-3~9-8" about the replacing of Mist Filter, Oil Absorber Sheet, O-ring, or changing Fuses.
- Remove oil in the oil tank following Operation Manual "9-6 Oil removal from the oil tank", before relocating or requesting product service.