

PHATELUS LIGHT PACK

OPERATION MANUAL

OM-E0039E Rev.2

Please read this Operation Manual carefully and file for future reference.

⚠ PRECAUTIONS

- Patient's safety is the first priority during treatment.
- Phatelus Light Pack is to be used by qualified personnel for dental treatment only.
- If abnormal conditions arise during use, stop immediately and contact your dealer.
- Never disassemble or modify.
- Do not subject unit to strong shocks.
- Do not pull on the AC adaptor cord.
- Never cut or shorten the AC adaptor cord because voltage will increase and cause the lamp to fail easily.

1. SET-UP DIAGRAM

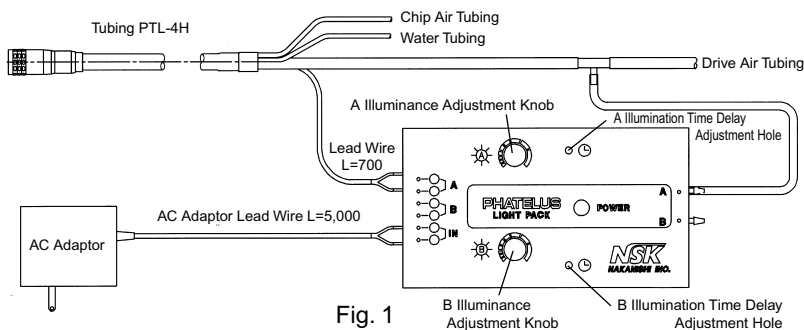


Fig. 1

2. CONNECTION

1) Assembling in Dental Unit

If AC/DC24V terminal is available inside of the dental unit, AC adaptor is not required. Take out AC or DC24V power source line from the dental unit and insert the end of the line into the hole of Light Pack marked IN. If the power source is DC24V, no consideration need be given to the plus and minus polarities.

2) Connection of AC Adaptor Lead Wire

Connect the Lead Wire from the AC adaptor to the hole marked IN as shown in Fig.1.

Insert the Lead Wire from the AC adaptor into the hole located on the side of Light Pack. Insert the screw driver provided in the hole marked IN to release the spring clip and push in the lead wires to connect. (Fig.2)

This AC adaptor has the polarity of plus and minus but the lead wire can be connected to any order marked IN.

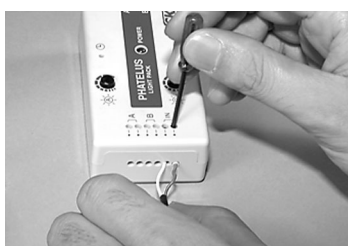


Fig. 2

3) Connection of Lead Wire from Tubing

Insert the Lead Wire from tubing into the hole marked A or B in the same manner as you connected the Lead Wire from AC adaptor. When connecting two Lead Wires from two tubings, use both the A and B holes, one wire for each hole.

⚠ CAUTION

Never cut the lead wire even it is too long because the voltage will increase and the lamp will fail easily. If the wire is too long, please bundle the remaining wire and place where it will not be disturbed.

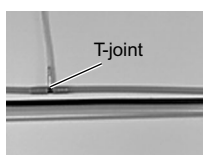


Fig. 3

4) Installation of T-joint

Cut the drive air tubing and install T-joint. (Fig.3)

Connect by-pass tubing from T-joint to the same letter nipple as the lead wire.

If installing 2 handpieces, the letters of the lead wires and the by-pass tubings must be matched.

Application of a small amount of oil on the nipple makes it easy to insert the by-pass tubing.

5) Installation of Light Pack

Install the Light Pack out of the way, underneath the work table or on the underside of the arm with double faced tap.

Fasten the lead wires with the clips provided so they do not hang down. (Fig.4)

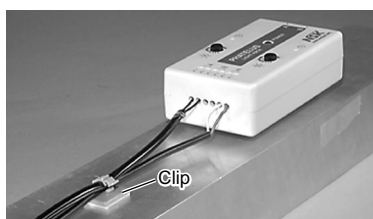


Fig. 4

3. CONNECTION OF AIR TURBINE TUBING

- 1) If your existing tubing is connected with a burr sleeve and the Phatelus Light Pack tubing can be connected as it is, carefully connect the water and the chip air tubing without mixing them up.
- 2) If your existing tubing is connected with a burr sleeve but the Phatelus Light Pack tubing is not able to be connected due to the difference in tubing size, cut the existing tubing about 5cm from the end of the burr sleeve connector and connect with the straight burr sleeve provided. (Fig.5)

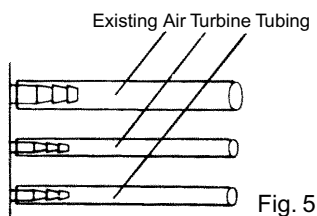


Fig. 5

- 3) If your existing tubing is connected with a special metal fitting by the unit manufacturers, contact Nakanishi or an authorized dealer.
- 4) If your existing tubing is fixed to the inside of unit, use the stopper provided as shown in Fig.6.

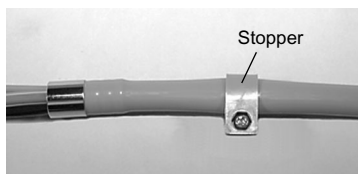


Fig. 6



CAUTION

When ordering tubing, please specify the tubing for Phatelus Light Pack (PTL-4HP). The tubing for Phatelus C-II power pack may not be able to connect properly.

4. ADJUSTMENT OF ILLUMINANCE AND ILLUMINATION TIME DELAY

1) Adjustment of Illuminance

By turning Illuminance Adjustment Knob for A or B terminal, the brightness of illuminatuin of the air turbine handpiece can be adjusted. Max. illuminance is obtained by turning the adjustment knob fully clockwise. Minimum illuminance is obtained by turning the adjustment knob fully counter-clockwise. (Fig.7)



Fig. 7

2) Adjustment of Illumination Time Delay

Illumination Time Delay can be adjusted by inserting the screwdriver provided in the Illumination Time Delay Adjustment Hole for A or B terminal and turning. Max. delay time (about 4.5sec.) is obtained by turning the screwdriver fully clockwise. Minimum delay time is obtained by turning the driver fully counter-clockwise. (Fig.8)

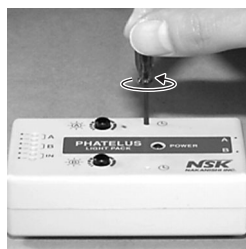


Fig. 8

5. SPECIFICATIONS

Power Source (AC Adaptor)	AC/DC 24V (AC 120V, 230V, 50-60Hz)
Output Power (Power Pack)	DC 2V ~ 3.5V
Illumination Time Delay	About 0.5 ~ 4.5Sec.
Weight (Power Pack)	110g

※ Specifications may be changed without notice.

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