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## Technical Guideline

### Upgrading KAVO Electrotorque TLC to KAVO Electromatic Premium

TG-95-0365

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#### PURPOSE

The purpose of this technical guideline is to show steps for upgrading a KAVO Electrotorque TLC to a KAVO Electromatic Premium.

#### WARNINGS



**WARNING!** Only qualified personnel should service or repair this device. This device should only be serviced/repared by a qualified service technician who is proficient in the repair of electromechanical dental equipment and who understands the complexities and risks of working within the device and observes proper safety precautions.



**WARNING – Compressed Air.** The compressed air system that operates this unit is under pressure. Compressed air can propel dust or loose particles and can cause bodily injury or damage. Always turn the system off and bleed off air pressure before attaching or removing air lines or accessories or servicing this unit. All air lines should be periodically inspected and replaced if worn or damaged. If an outside compressed air supply is used to power this unit, the air supply must be regulated to 80 psi or below. Excessive air pressure could cause certain components to rupture.



**WARNING – Electrical Voltage.** This system is powered by high voltage electricity. Like any other electrically powered device, if it is not used properly, it can cause electrical shock. Always plug the power cord into an electrical outlet with adequate fuse protection and proper grounding. In the event of a short circuit, grounding reduces the risk of shock by providing an escape wire for the electric current. Improper grounding of the unit can result in a risk of electric shock. Always unplug the unit before doing any service or repair to the unit.

#### PARTS INCLUDED

- Kavo Electromatic Premium
- 6-32 X 3/8" pan head screws (2)
- Hole Pattern Template

#### TOOLS REQUIRED

- Phillips head screwdriver, PH2
- Thumb Phillips head screwdriver
- Torx screwdriver, T15
- Drill (with 5/32" bit)

#### INSTRUCTIONS

1. Turn off main power. Unplug unit from outlet and air supply to unit.
2. Remove the stone worktop.
3. Using Phillips head screwdriver, remove the screws securing the cover plate and remove the plate.



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4. Disconnecting the KAVO TLC.
  - a. Disconnect the KAVO TLC wire harness from the main board.
  - b. Unplug the power supply cord (keep the power supply cable installed and connected to the carts power system).
  - c. Disconnect the air/water connection.
  - d. Disconnect the handpiece tubing, and pull out.
  - e. Unplug the KAVO power supply cord.
5. Loosen the Velcro straps and remove the KAVO main controller, and the KAVO power supply, set aside.

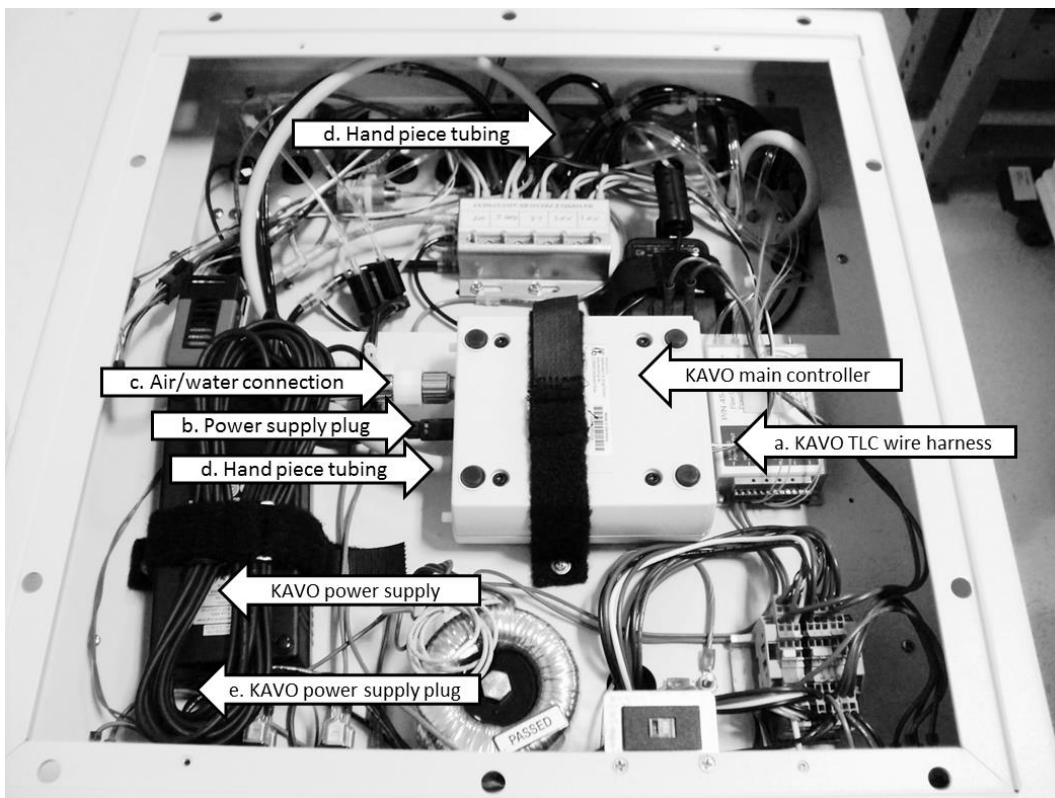
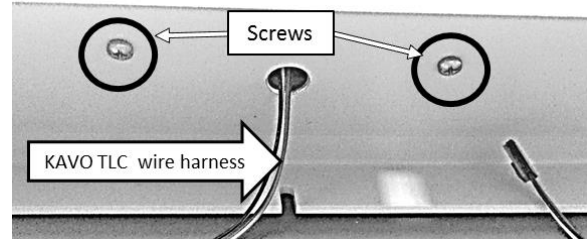


Fig. 2

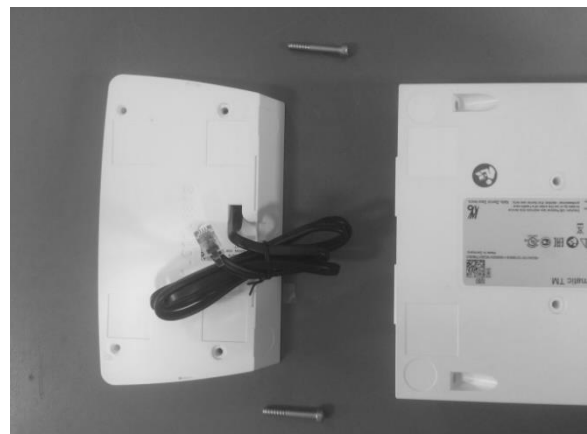
6. Using Phillips head thumb screwdriver, remove two (2) screws (from the inside) attaching the front KAVO controller. (**Fig. 3**) Remove the front control panel; set aside. (**Fig. 4**)

**Fig. 3****Fig. 4**

7. Place the provided hole pattern template over the front face of the baseplate, and drill the two (2) new holes using a 5/32" drill bit.

**Fig. 5**

8. Detach the front control panel of the KAVO Electromatic Premium by removing the two (2) screws using a T15 Torx screwdriver.

**Fig. 6**

9. Pull the wire harness from the front control panel of the KAVO Electromatic Premium through the center hole, then attach the front control panel to the baseplate with two (2) 6-32 X 3/8" pan head screws provided.

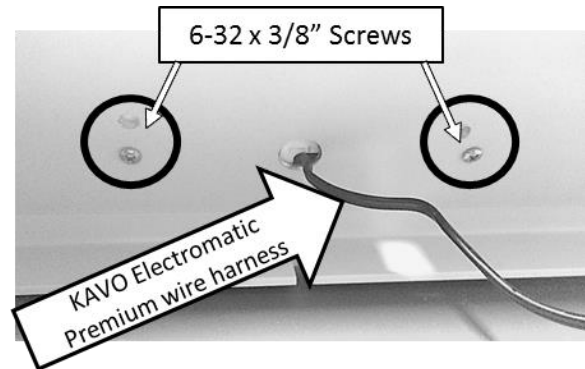


Fig. 7



Fig. 8

10. Using the Velcro straps secure the KAVO Electromatic Premium's main controller, and power supply.
11. Connecting the KAVO Electromatic Premium.
- Connect air/water connector.
  - Plug in the power supply to the power supply cord.
  - Connect the hand piece tubing.
  - Connect the power supply plug to the main controller.
  - Plug in the wire harness to the main controller (not shown).

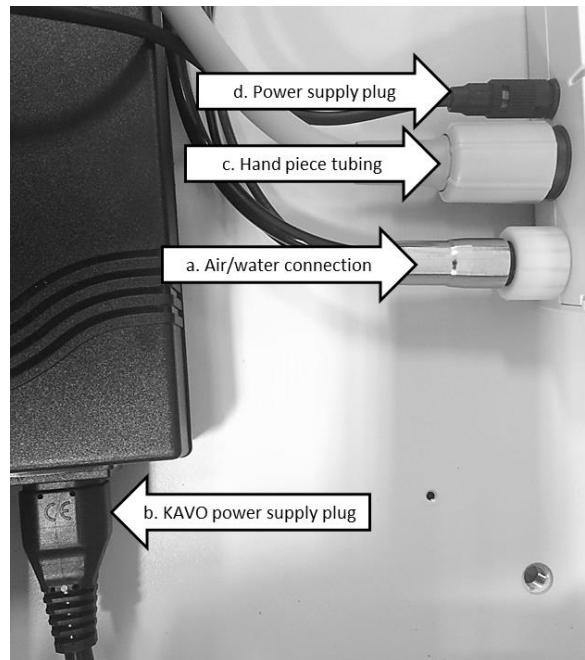


Fig. 9

12. Reinstall the cover plate and stone worktop.