



V35 Multi-Speed Control Console for Electric Handpieces Operating and Instruction Manual

V35 Console Only, 120 V AC

ITEM NO. 37500

V35 Console Only, 220 V AC

ITEM NO. 37520

Note: Please read these instructions carefully and completely before operating the Buffalo Dental V35 Multi-Speed Control Console. Keep all loose clothing, long hair, and flammable materials away from the unit during operation. Ensure proper connection to a grounded electrical outlet of proper voltage and amperage, and ensure no liquids come in contact with the unit at any time. Accident or injury may occur if these precautions are not followed.

Specifications

Electrical: 120 V or 230 V AC (for Item No. 37520), 50/60 Hz

Line Fuse: 3A

Handpiece Required: 0 – 35,000 rpm, (0-30 Volts DC w/ appropriate Line Connector)

Foot Speed Control Required: Buffalo Dental V35 Foot Control- Optional Item No. 37430

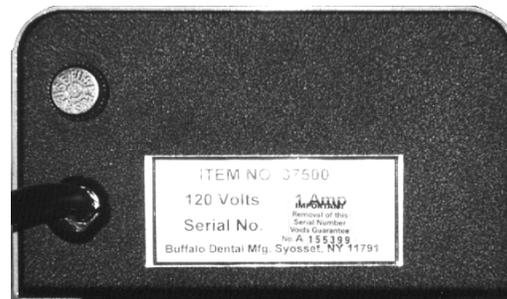
Shipping Weight: 6 lb. (2.7 kg)

Contents: V35 Console

V35 Console Layout



Front



Back

Handpiece Connector- Outlet for connecting appropriate 0-30 V DC Micromotor type handpiece such as Buffalo Dental Standard Black, Gray, or *Duration*™ Electric Handpieces.

Direction Switch- Determines forward or reverse rotational direction of handpiece.

Speed Selection Switch- Sets rotational speed of handpiece, with approximate speed settings as follows:

Setting	Off	Low	Medium	Medium/High	High
RPM	0	14k	22k	27k	33k

Power Switch- Illuminates when Console “On” (Up position.) Always maintain in “Off” (Down position) when Console not in use.

Fuse Holder (Back)- Holds 3 Amp Fuse for protection of Control Box from incoming power line surges.

Set-Up and Operating Procedures

- 1) Lock an appropriate Cutting Instrument into the Handpiece (using Manufacturer’s Recommendations) and ensure Handpiece is set for safe operation.
- 2) Connect the handpiece plug to the Handpiece Connector and place handpiece in Cradle.
- 3) Select handpiece rotation direction and ensure Speed Selection Switch is set to “Off” position.
- 4) Ensure Speed Selection Switch is set to “Off” position and Power Switch is “Off” when not in use.

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Set-Up and Operating Procedures (Continued)

- 5) Ensure V35 Console is plugged into a properly grounded, standard 120 VAC (or 220 VAC if ITEM No. 37520) electrical outlet capable of supplying a minimum 3A continuous power. Periodically inspect all cords and connections to ensure safe operation.
- 6) Set Console Power Switch to "On".
- 7) With Handpiece in hand, set Speed Selection Switch to appropriate setting and begin use.
- 8) **For Variable Speed via Foot Control:**
 - ~Use Buffalo Dental Variable Speed Foot Control Item No. 37430
 - ~Plug Foot Control in line between V35 Control Console and appropriate wall outlet
 - ~Turn Console "On" and set Speed Selection Switch to desired setting.
 - ~Depress Foot Control the desired amount to energize Console and set speed to desired level.

Warning- Never Reverse the rotational direction of the Handpiece while Handpiece is in operation. This can damage the handpiece and cause premature failure. Always ensure Handpiece is completely stopped before reversing direction.

Automatic Overload Protection Circuit

The console is designed to provide continuous performance when the handpiece is operated according to recommendations. **Handpiece operation should never be attempted while the handpiece is locked (no tool in handpiece or chuck locked in "R" Open position), or in situations creating excessive side pressures or forced-stall (or near-stall) speeds.** In situations where dangerous operating conditions are created for the handpiece, an internal **Automatic Overload Protection Circuit** may be activated within the console that temporarily disconnects power to the handpiece to protect it from damage. Should the handpiece stop running during console operation:

- 1) Immediately turn off the main power switch on the Console
- 2) Check all system settings to ensure operation according to safe recommendations
- 3) Allow a 1 minute delay for the Overload Protection Circuit to automatically reset
- 4) Turn on the main power switch and begin using the handpiece within the safe operational range

Note: After the system reset is complete, the handpiece will immediately return to original performance levels.

Maintenance & Cleaning

Console Surfaces- Ensure unit is disconnected from power source during cleaning. Periodically wipe clean all external surfaces with a dry cloth as necessary.

Fuses- Should either the Console or the Handpiece not operate, or fail to display that proper power is available, first check to ensure the handpiece is properly connected to the Console, the Console is properly connected to the correct AC outlet, and the Console Power Switch is in the "On" position.

If power is still not available to the Console, immediately shut off the Console, disconnect it from the AC outlet, and remove and test the **Line Fuse** on the back of the Console to ensure it is in proper working order. Replace with a properly sized fuse if required. Before reenergizing the unit, thoroughly inspect the Console and Handpiece to ensure all wires are intact and not damaged. Also ensure the handpiece is able to freely rotate with no noticeable difficulties. Then ensure all connections are complete and retest the unit.

Alternatively, if the Console registers proper AC power but the Handpiece still fails to operate, please shut off and unplug the Console, and remove and inspect the Handpiece to ensure it is in proper working order. Ensure the handpiece is able to freely rotate with no noticeable difficulties. Then ensure all connections are complete and retest the unit. If the Handpiece will still not operate, immediately turn off the Console and disconnect the Handpiece, and contact the Handpiece Manufacturer for further instructions on maintenance, testing and repair of the Handpiece. Please Call Buffalo Dental if the V35 Console repeatedly blows fuses, or if you have any questions during analysis of fuse related problems.

Repair

Please contact Buffalo Dental for information regarding repair of your V35 Control Console.

Warranty

Buffalo Dental Mfg. Co., Inc. warrants the V35 Control Console to be free from defect due to manufacturing for one year from date of installation. Refer to the enclosed warranty card or to www.buffalodental.com for details.

Ordering Information

V35 Gray Electric Handpiece System, 120 VAC: ITEM 37570
Gray Electric Handpiece Only: ITEM#: 37590

V35 Control Console for Electric Handpieces, 120 VAC: ITEM 37500
Variable Speed Foot Control for V35 Console, 120 V AC: ITEM 37430

For further technical assistance, please call: 516.496.7200, or EMAIL: tech.support@bdm1.com