

Service Manual A-300

3 HP Automatic Control Head

Rev 5 - 1-9-20 900-004M

Installation 1. This control head has been designed to mount to any of our control mount brackets.

- Operation 1. Turn on the master switch located on the left side of the control head.
 - 2. The handpiece is automatically activated when lifted from the holder.
 - 3. Depress the foot control to activate each handpiece. Pressure is shown on the gauge for the handpiece being used.
 - 4. Individual handpiece pressure adjustments are located on the autoblock inside the control head. To adjust the pressure to each handpiece:
 - a. Turn adjustment screw *clockwise* to decrease the handpiece pressure.
 - b. Turn adjustment screw counter-clockwise to increase the handpiece pressure.



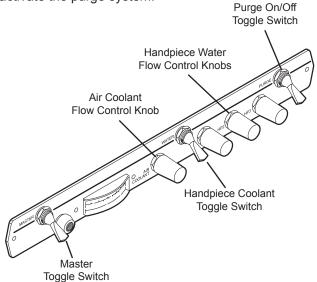
CAUTION

When adjusting the handpiece pressure, do not overtighten the screws. Damage may result.

- Activate the water spray to the handpiece by flipping the toggle for the water located in the center of the control head.
- 6. Water coolant flow adjustments are located to the right of the water coolant toggle switch.

Handpiece Purge

The purge switch, located on the right side of the control head, flushes fresh water through the water coolant system. Guidelines from the Center for Disease Control (CDC) recommends that each handpiece be flushed (purged) 20 to 30 seconds between patients and several minutes at the beginning of each day. Handpieces must be removed from the holder to activate the purge system.



Control Panel A-300

Troubleshooting

Symptom

Handpiece lacks power.

Possible Causes

- A. Improper supply pressure from compressor (80 psi).
- B. Check handpiece pressure adjustment on unit.
- C. Air filter may be plugged.
- D. Pinched supply tubing.
- E. Defective handpiece gasket at connection with tubing.
- F. Defective handpiece.

Symptom

Water coolant does not shut off when foot control is released.

Possible Causes

- A. Adjust air pressure to 80 psi—water pressure to 40 psi.
- B. Foot control is not exhausting.
- C. Defective water relay valve.

Symptom

More than one handpiece is operating.

Possible Causes

- A. Handpiece is not all the way in the holder.
- B. Improper adjustment on pilot valve in the handpiece holder.
- C. Defective shuttle valve to gauge.

Symptom

Insufficient water coolant.

Possible Causes

- A. Adjust coolant flow valve.
- B. Water filter may be plugged.
- C. Handpiece may be plugged.
- D. Pinched supply tubing.
- E. Improper adjustment of water relay valve.

Symptom

Water coolant is running from handpiece while in the holder.

Possible Causes

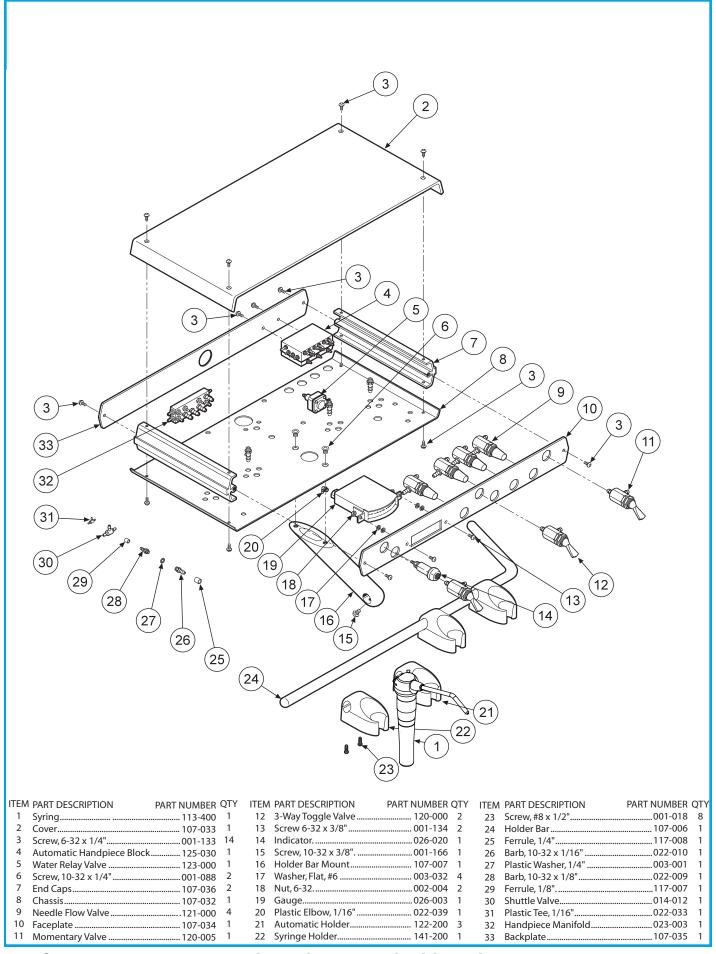
- A. Water pressure too high.
- B. Air pressure too low.
- C. Handpiece holder out of adjustment.

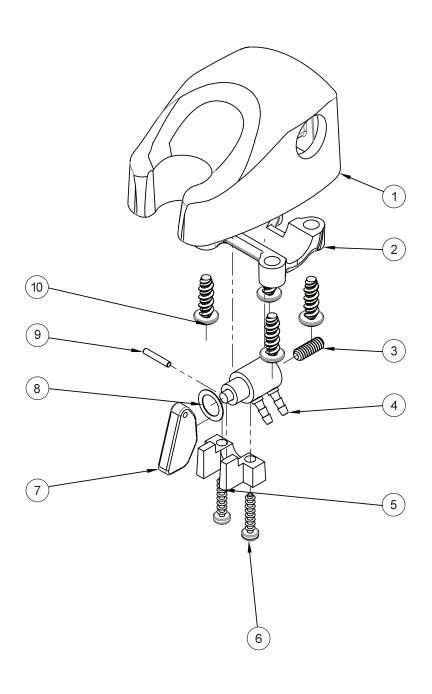
Symptom

Water coolant is running continuously.

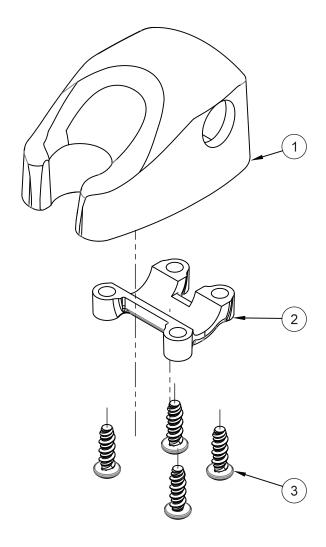
Possible Causes

- A. Purge switch is on (on applicable systems).
- B. Water pressure to high.
- C. Handpiece holder out of adjustment.
- D. Defective water relay valve.

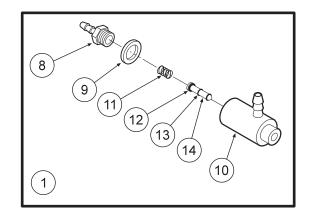


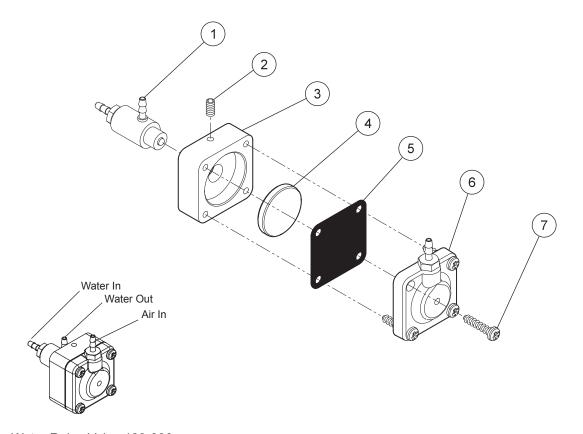


ITEM	PART DESCRIPTION	PART NUMBER	QTY
1	Molded Body	122-201	1
2	Clamp	122-104	1
3	Set Screw, 6-32 x 3/8"	005-012	1
4	Valve Cartridge	122-031	1
5	Molded Clip	122-102	1
6	Screw, 4 x 1/2"	001-019	2
7	Handpiece Actuator Leve	er122-103	1
8	Washer	003-004	1
9	Pin, 1/16"x3/8" Dowel	009-010	1
10	Screw, 8-18 x 1/2"	001-267	4



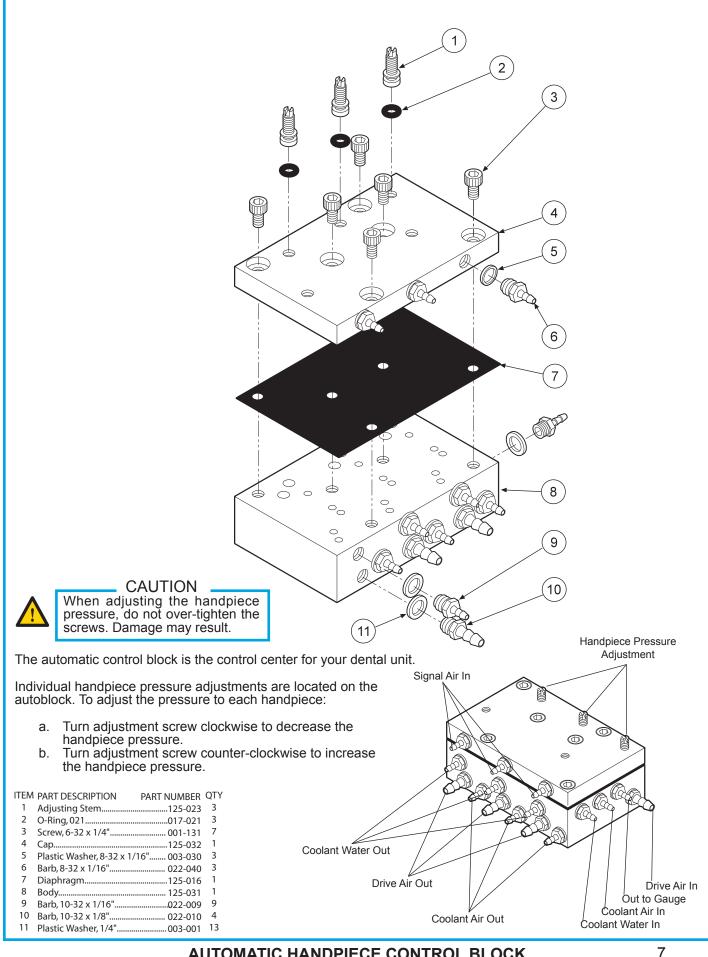
ITEM	PART DESCRIPTION	PART NUMBER	QTY
1	Molded Body	141-201	1
2	Clamp	122-204	1
3	Screw, 8-32 x 1/2"	001-267	4

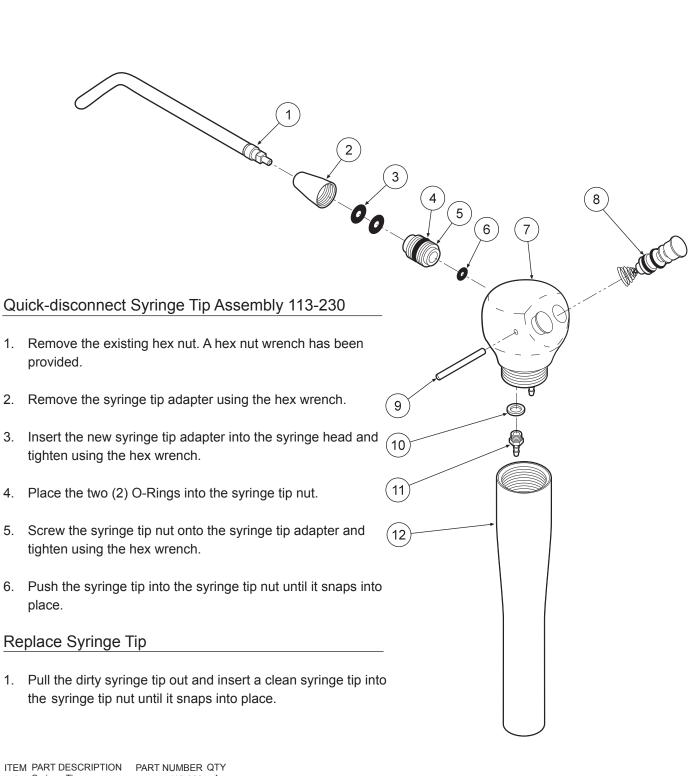




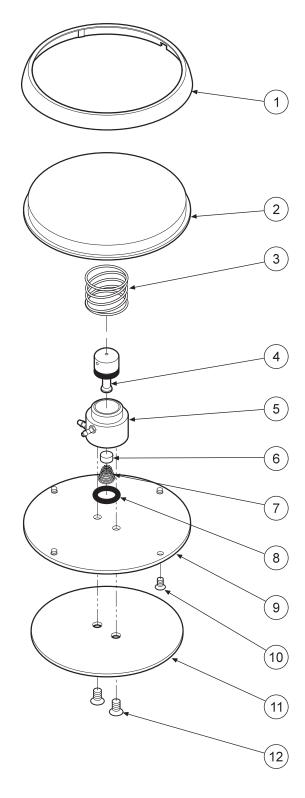
Water Relay Valve 123-000

ITEM	PART DESCRIPTION PART NUME	3ER	QTY
1	Cartridge Body Assembly123-0)18	1
2	Set Screw, 4-40 x 5/8"005-0)28	1
3	Body123-0)13	1
4	Piston123-0)14	1
5	Diaphragm127-0		1
6	Cap123-0)12	1
7	Screw, #6 x 1/2"001-2	267	4
8	Barb, 10-32 x 1/16"022-0)09	1
9	Plastic Washer, 1/4" 003-0	01	1
10	Valve Body123-0)17	1
11	Spring008-0)11	1
12	O-Ring, 002 017-5		1
13	O-Ring, 001 017-5	01	2
14	Stem 123-0)15	1





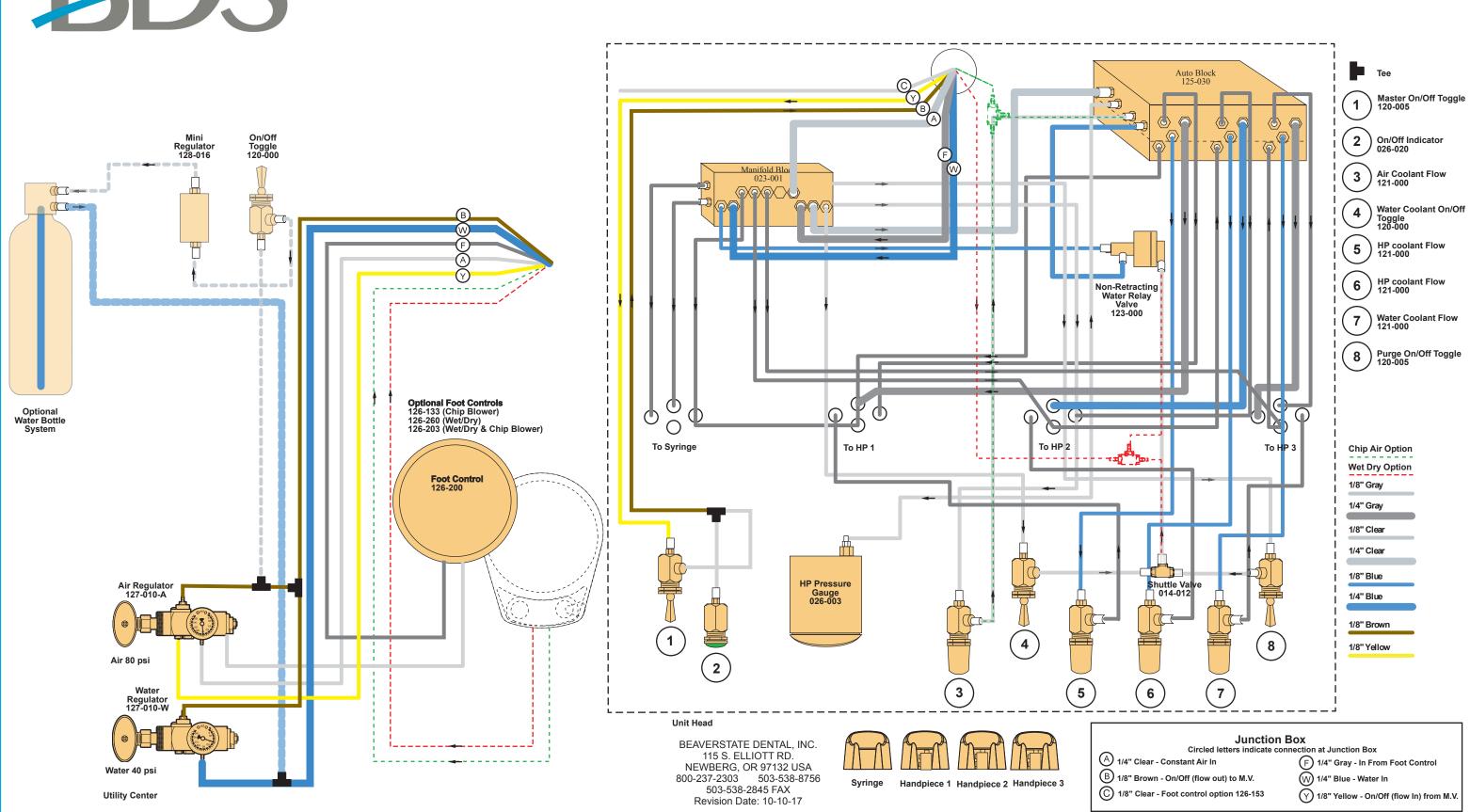
ITEM	PART DESCRIPTION PART NUMBER	QTY
1	Syringe Tip113-030	1
2	Syringe Tip Nut113-402	1
3	O-Ring, 006017-006	2
4	O-Ring, 228-040017-023	1
5	Syringe Tip Adapter113-227	1
6	O-Ring, 003017-003	1
7	Syringe Head113-405	1
8	Syringe Button Repair Kit113-403	2
9	Pin, Syringe Cartridge113-008	1
10	Plastic Washer, 8-32003-030	2
11	Barb, 8-32 x 1/16"022-040	2
12	Syringe Handle113-236	1



ITEM	PART DESCRIPTION	PART NUMBER	QTY
1	Ring	126-202	1
2	Cover	126-201	1
3	Spring	008-005	1
4	Stem (Includes 017-012	o-ring)1.26-005	1
5	Body	126-004	1
6	Poppet	126-006	1
7	Spring	008-006	1
8	O-Ring, 013	017-013	1
9	Baseplate	126-003	1
10	Screw, 4-40 x 1/4"	001-005	4
11	Rubber Pad	126-007	1
12	Screw, 6-32 x 1/4"	001-004	2



3 Handpiece Automatic A-300



BDS warranties its product to be free of defects in material and workmanship for SEVEN FULL YEARS from the date of purchase on all units. Auto-blocks and standard foot controls are covered by a LIFETIME warranty when factory installed as part of a complete dental system. Upholstery has a TWO YEAR warrany and does not cover normal wear, stains, cuts or tears. Our LED lights have a FIVE year Warranty and our halogen light has a ONE year Warranty. Operatory chair motors feature a TEN year warranty. All warranty is limited to repair or replacement by BDS. Products returned to the factory and determined to be defective will be repaired or replaced free of charge at discretion of BDS. The warranty does not cover light bulbs, electrical components and trimmed or installed tubing. BDS reserves the right to void all warranties if any product is installed by other than an authorized technician. BDS' warranty does not cover damage to any surface finish, including but not limited to, discoloration or abrasion from cleaners, disinfectants or light sources. No claim for labor or consequential damages will be allowed. Return items must include a copy of the invoice or packing slip as proof of purchase.

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