Troubleshooting Chart:

Problem	Cause	Solution
1. No discharge	a. No waterb. Magnetic valve not functioningc. Excessive water pressured. Eductor clogged	 a. Open water supply b. Install valve parts kit c. Install regulator if water pressure exceeds 60 PSI (flowing) d. Clean* or replace
2. No concentrate draw	 a. Clogged check valve b. Metering tip or eductor has scale build-up c. Low water pressure d. Discharge tube(s) not in place or flooding ring missing from inner discharge tube e. Concentrate container empty f. Inlet hose barb not screwed into eductor tightly g. Clogged water inlet strainer h. Selector out of position 	 a. Replace check valve b. Clean (descale)* or replace c. Minimum 20 PSI (with water running) required to operate unit properly d. Push tube firmly onto eductor discharge hose barb; be sure inner discharge tube is installed and has flooding ring. e. Replace with full container f. Tighten, but do not overtighten g. Disconnect inlet water line and clean strainer h. Assure selector is in position desired
3. Excess concentrate draw	a. Metering tip not in placeb. Chemical above eductor	a. Press correct tip firmly into barb on eductorb. Place concentrate below the eductor
4. Failure of unit to turn off	a. Water valve parts dirty or defectiveb. Magnet doesn't fully returnc. Push button stuck	 a. Clean* or replace with valve parts kit b. Make sure magnet moves freely. c. Remove button and clean cabinet/button to remove any dirt lodged in slide recess
5. Excess foaming in discharge	a. Air leak in pick-up tube b. Inner discharge tube not in place	a. Put clamp on tube or replace tube if brittle b. Install inner discharge tube
 Water discharge from air vents on eductor 	a. Restricted discharge hose b. High water pressure	 a. Be sure discharge tube is not immersed, kinked or elevated. Be sure there is no liquid in the discharge tube when begin- ning to operate dispenser b. Install pressure regulator if flowing water pressure exceeds 60 PSI (flowing)

* In hard water areas, scale may form inside the discharge end of the eductor, as well as in other areas of the unit that are exposed to water. This scale may be removed by soaking the eductor in a descaling solution (deliming solution). To remove an eductor located in the cabinet, firmly grasp water valve and unthread eductor. Replace in same manner. Alternatively, a scaled eductor can be cleaned (or kept from scaling) by drawing the descaling solution through the unit. Operate the unit with the suction tube in the descaling solution. Operate the unit until solution is drawn consistently, then flush the unit by drawing clear water through it for a minute. Replace concentrate container and put suction tube into concentrate.

LEVELO

AccuDose Series Proportioner Models 3871-2 & 3872-2

THANK YOU FOR YOUR INTERES Please use this equipment carefully and observe all warnin protective clothing and eyewear wh		
WEAR	materials.	
ALWAYS	observe safety and handling instructi	
ALWAYS	direct discharge away from you or otl	
ALWAYS	dispense cleaners and chemicals in a	
	instructions. Exercise CAUTION wh	
KEEP	equipment clean to maintain proper of	
WEAR	protective clothing and eyewear when	
	chemicals, filling or emptying equipn	
ALWAYS	re-assemble equipment according to	
	components are firmly screwed or la	
ATTACH	only to tap water outlets (85 PSI max	

Installation and Operation:

- your concentrate higher than the proportioner).
- used. (This may be used for dispensing water only).
- on the valve. Be sure suction tubes are on the barb far enough to prevent air from leaking into tube.
- tip on the eductor. (Repeat for all eductors.)
- PERIODICALLY FOR CLOGGING: CLEAN IF NECESSARY.
- tubes to allow discharge tube to conveniently hang from dispenser when not in use.
- may be installed in the holes in the cabinet sides to prevent easy removal of cover.
- push the button whenever dispensing is desired, and release button to stop flow of solution. To unlock, pull the button out.



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ngs and cautions.

en dispensing chemicals or other

- tions of the chemical manufacturers.
- her persons or into approved containers.
- accordance with manufacturer's hen maintaining your equipment. operation.
- en working in the vicinity of all nent or changing metering tips.
- instruction procedures. Be sure all tched into position.

ximum).

Package Should Contain:

- 1. Proportioner unit.
- 2. Supply tubing 21' total.
- 3. Foot valve assemblies & weights (5).
- 4. Discharge tubing for each eductor.
- 5. Metering tip kits.
- 6. Mounting anchor kit.
- 7. Hose hook for 4GPM eductor.
- 8. Instruction sheet.

1. Remove cabinet cover. Drill holes for the three wall anchors with a 5/16" drill bit, using the cabinet back as a template for proper spacing of the mounting screws. Install mounting anchors, and then screws in top two anchors. Slide key holes in cabinet back over screw heads, tighten screws, then install bottom screw. Do not mount more than 6 feet (1.8 meters) above the bottom of the concentrate container, nor below the highest concentrate level (never mount

2. Select metering tips (up to 4) for the selector valve. (see next two sections) Push each tip firmly into a separate hose barb extending from the selector valve. A tip with no hole (clear plastic) can be used to block any valve port being

3. Attach the chemical suction tube assembly to the selector valve, sliding the open end of each piece of tubing over one barb

4. Slip other end of supply tube through an opening in either side of the cabinet and push over the hose barb/metering

5. Place foot valve ends of supply tubes into concentrate containers. REMEMBER TO CHECK FOOT VALVE STRAINERS

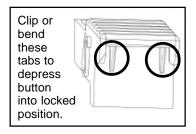
6. A short discharge tube is used with the 1GPM eductor; minimum tube length is 8 inches (20cm) for proper operation. Longer tubes (4 feet) are used with a 4 GPM eductor. Do not remove the flooding rings from inside the tubes. Slide end of tube with flooding ring over eductor discharge outlet. (Repeat for all eductors.) Hooks may be installed on longer

7. Replace cabinet cover. Push the sides in, behind the latch holes, to snap the cover in place. The two screws provided

8. Connect water supply hose of at least 1/2" ID to water inlet swivel. (Minimum 25 PSI pressure, with water running, is required for proper operation.) Connect opposite end of hose to water supply. Turn water supply on.

9. Push button to start flow of desired water/concentrate solution, and hold until supply tube is primed (filled). Then

If you wish to be able to lock the button in the "on" position: clip or bend the two tabs behind the lower front portion of the button (see diagram). This allows the button to be fully depressed and allows it to latch in the "on" position.



Metering Tip Selection:

The final concentration of the dispensed solution is related to both the size of the metering tip opening and the viscosity of the liquid being siphoned. For water-thin products, the chart at left can be used as a guideline. If product is noticeably thicker than water, consult the Measurement of Concentration Procedure below to achieve your desired water-toproduct ratio. Because dilution can vary with water temperature and pressure, actual dilution achieved can only be ascertained by using the Measurement of Concentration Procedure. The clear, undrilled tip is provided to permit drilling to size not listed should you need a dilution ratio that falls between standard tip sizes.

NOTE: A 1 GPM eductor is grey; a 4 GPM eductor is yellow. Refer to parts diagram if unfamiliar with Orange names of system components.

Measurement of Concentration:

You can determine the dispensed water-to-product ratio for any metering tip size and product viscosity. All that is required is to operate the primed dispenser for a minute or so and note two things: the amount of dispensed solution, and the amount of concen-

trate used in preparation of the solution dispensed. The water-to-product ratio is then calculated as follows:

Dilution Ratio (X:1) where X = Amount of Mixed Solution — Amount of Concentrate Drawn

Orifice

.187

.128

.098

.070

.052

.043

.040

.035

.028

.025

.023

.020

.018

.014

.010

lize

Tip Color

No Tip

Grey

Black

Beige

Red

Blue

Tan

Green

Brown

Yellow

Agua

Purple

Pink

White

Amount of Concentrate Drawn

APPROXIMATE DILUTIONS

AT 40 PSI FOR WATER THIN PRODUCT

(3/16)

(30)

(40)

(50)

(55)

(57)

(60)

(65)

(70)

(72)

(74)

(76)

(77)

(79)

(87)

1GPM

2:1

2:1

2:1

3:1

4:1

5:1

6:1

8:1

12:1

16:1

18:1

24:1

32:1

45:1

128:1

4GPM

6:1

6:1

6:1

8:1

14:1

20:1

24:1

30:1

45:1

56:1

64:1

90:1

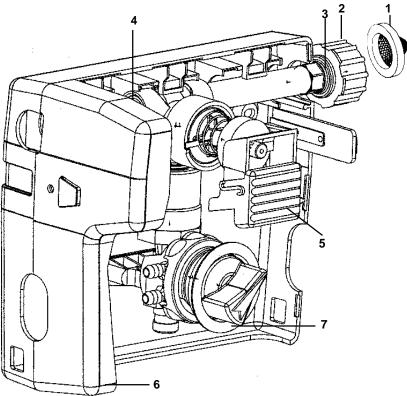
128:1

180:1

350:1

Dilution Ratio, then, equals X parts water to one part concentrate (X:1). If the test does not yield the desired ratio, choose a different tip and repeat the test. Alternative methods to this test are 1) pH (using litmus paper), and 2) titration. Contact your concentrate supplier for further information on these alternative methods and the materials required to perform them.

AccuDose Select Parts Diagram List:



Key	Part No.	Description
1	238100	Strainer washer
2	10082830	Swivel collar (molded)
3	10082801	Swivel stem (molded)
	10075950	O-ring (two per nipple)
4	10075925	Pipe plug
5	10080710	Button, grey (standard)
	10080711	Button, sky blue
	10080712	Button, red
	10080713	Button, green
	10080714	Button, light grey
	10080715	
6	10080894	Cabinet
7	10020700	Selector valve grommet
	10020900	Back up ring for grommet



