



Fleck 3900

Service Manual

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JOB SPECIFICATION SHEET

1. Type of Timer:

2.

3. Meter Size:

4. System Type:

5.

units on and offline based on flow.

Brine Tank Refill:

6. _____ gpm

7. Brine Line Flow Controller: _____ gpm

8. Injector Size#: _____

9. Piston Type:

INSTALLATION

iron filter unit should be installed ahead of the water softener.

breaks and back flow.

CAUTION

making sure the unit is level and on a firm base.

should be a minimum of 1/2" (13 mm). Backwash flow rates

lines should be the same size as the drain line flow control.

will refill the brine tank (2 min. per hole).

To change the length of refill time, move the two pins at the

32

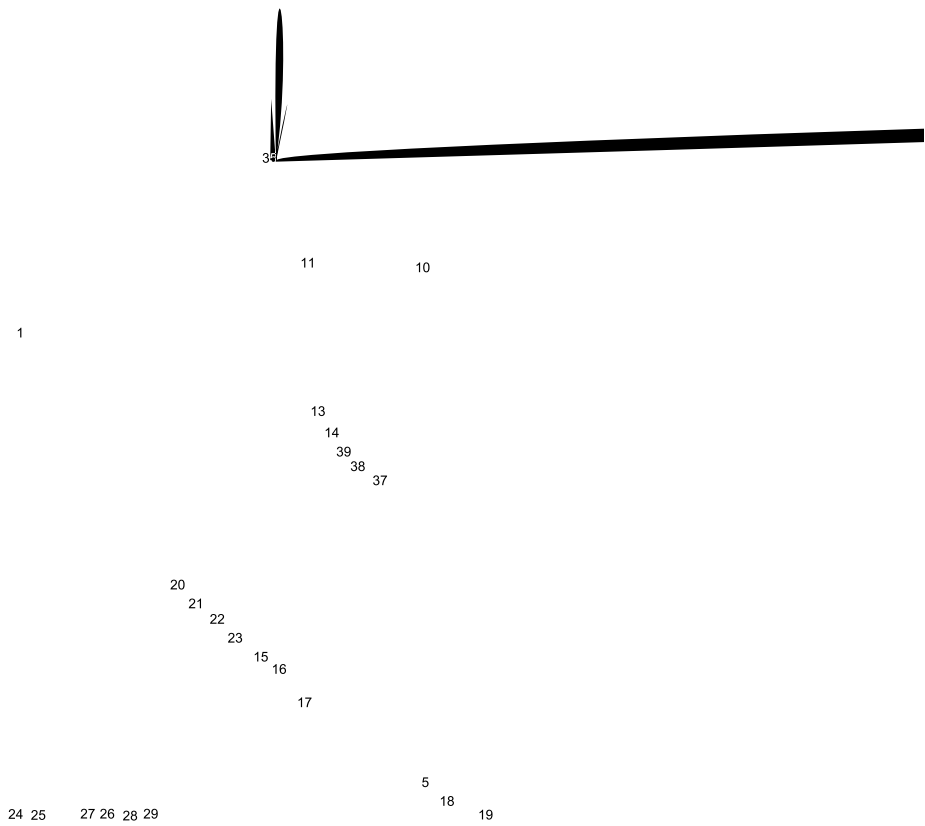
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31

30

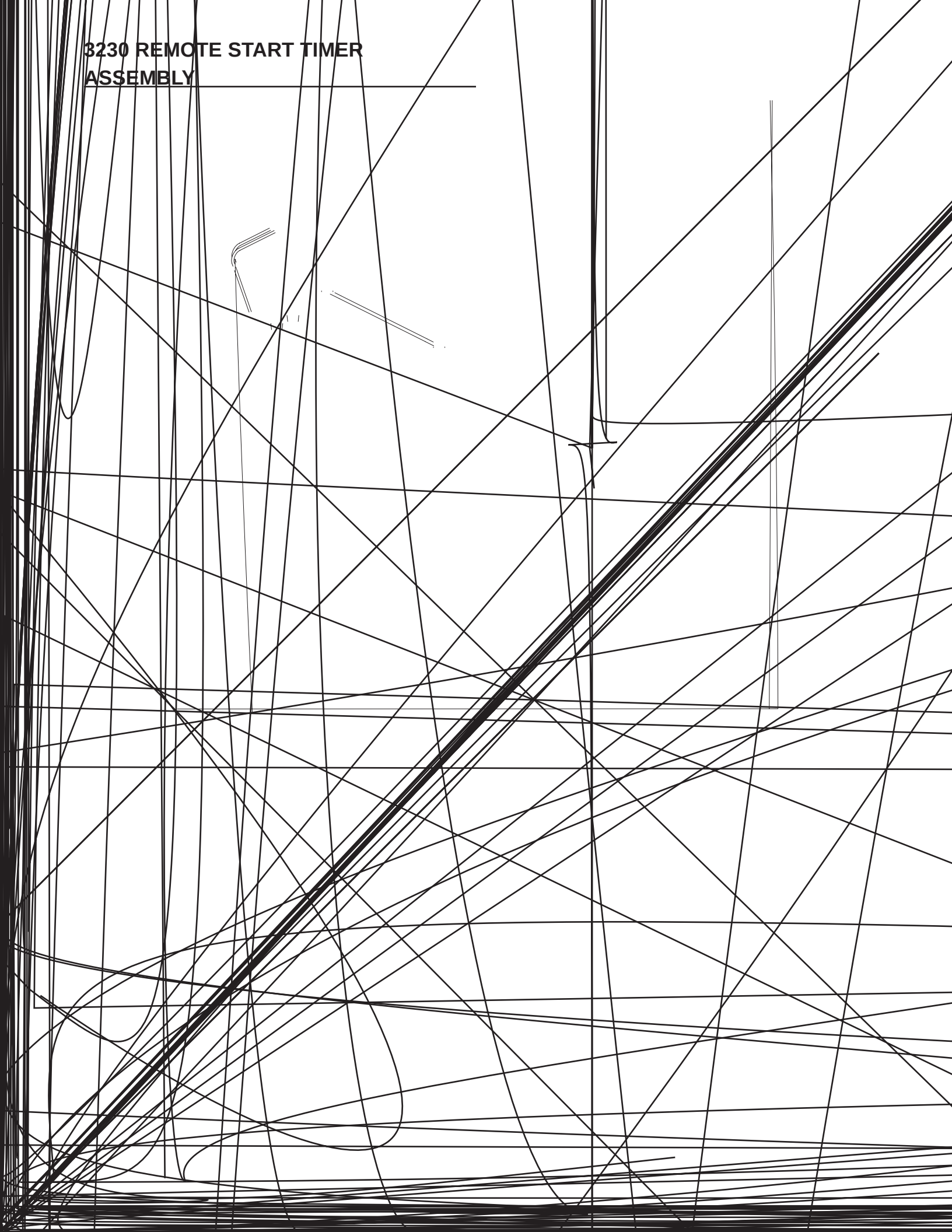
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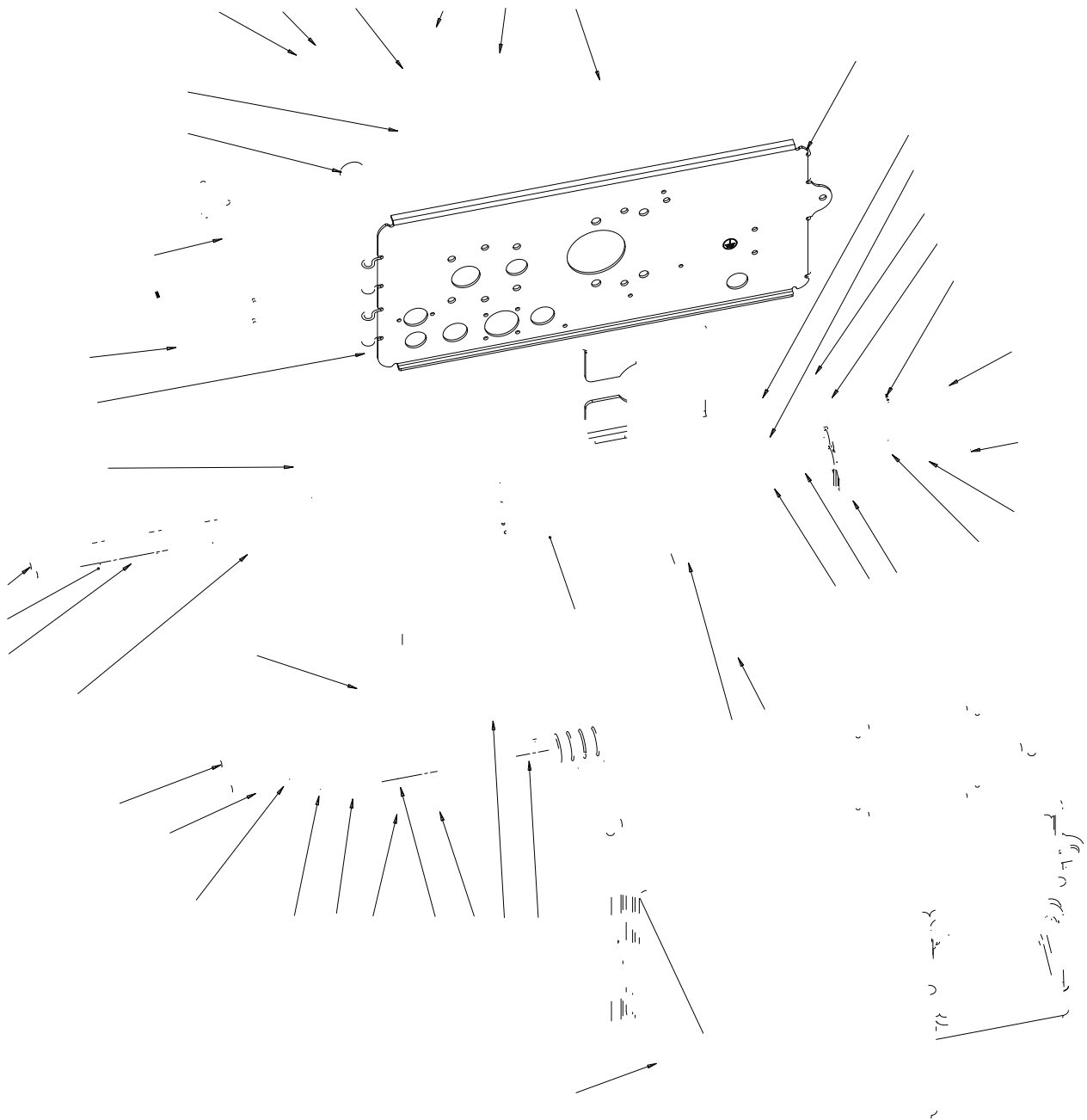
3210 METER DELAYED TIMER
ASSEMBLY



3220 METER IMMEDIATE TIMER
ASSEMBLY

**3230 REMOTE START TIMER
ASSEMBLY**

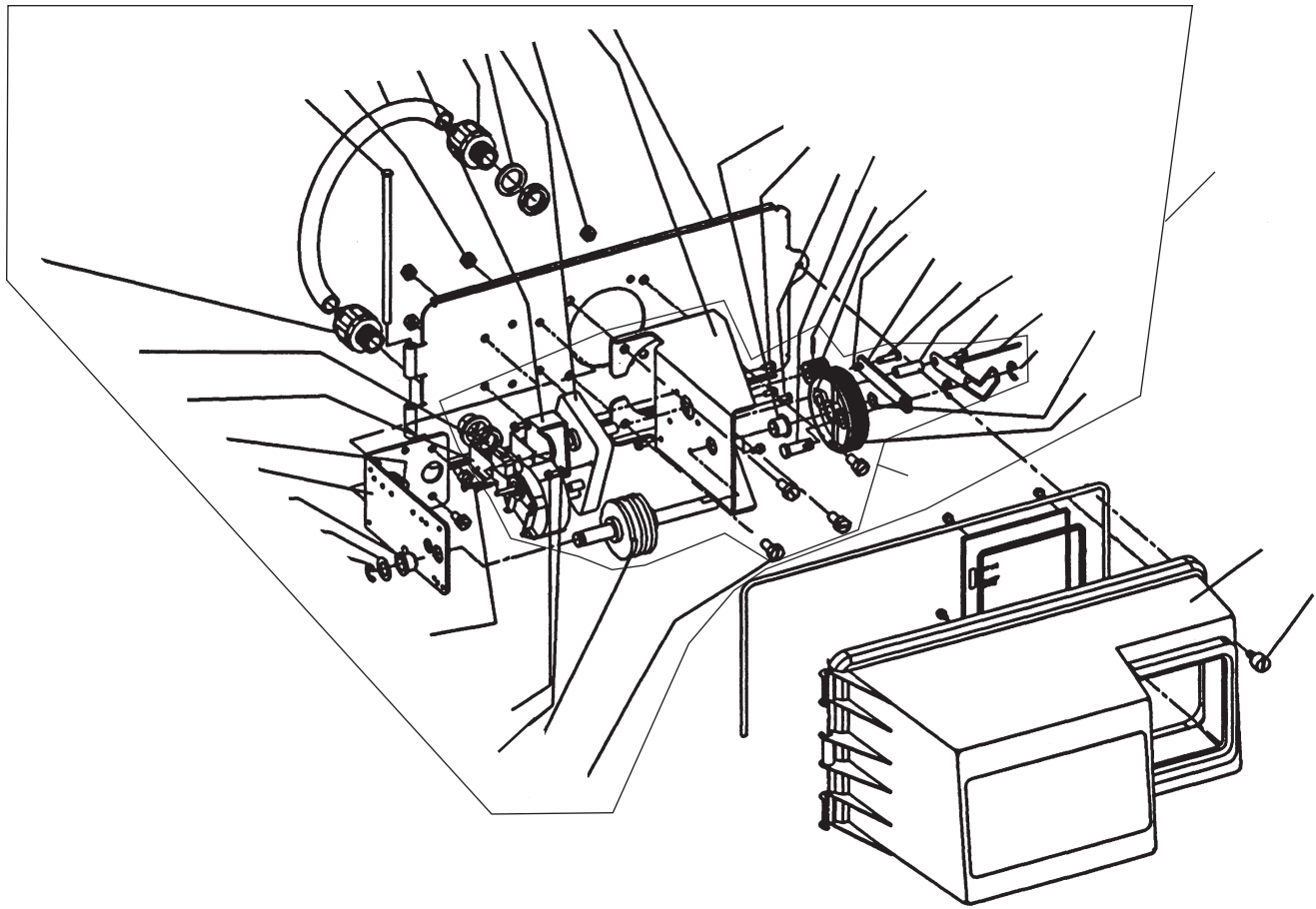


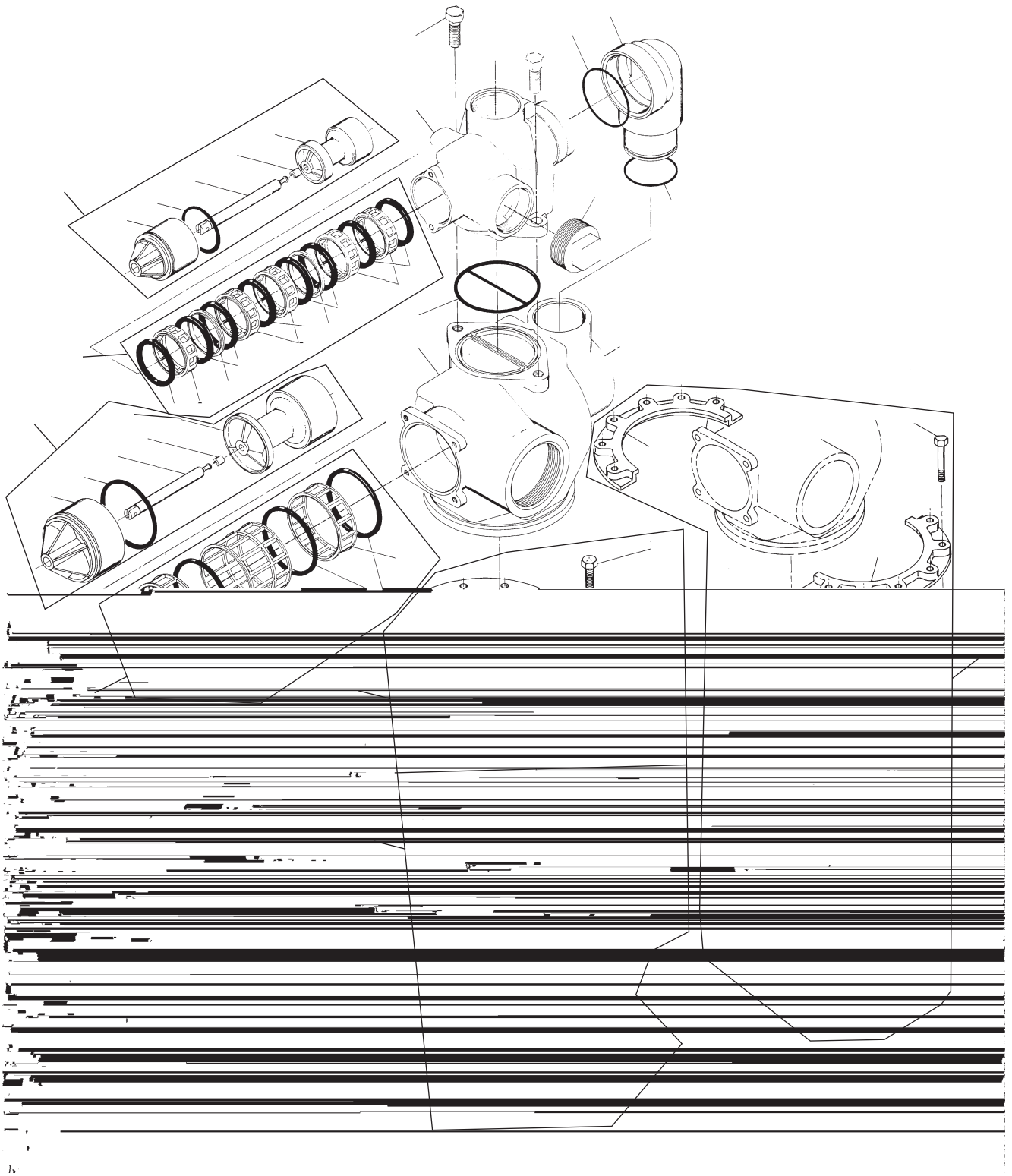


Drive Assy, 3150, 120V, Upfow,

Upfow, Signal After Rapid Rinse

POWERHEAD



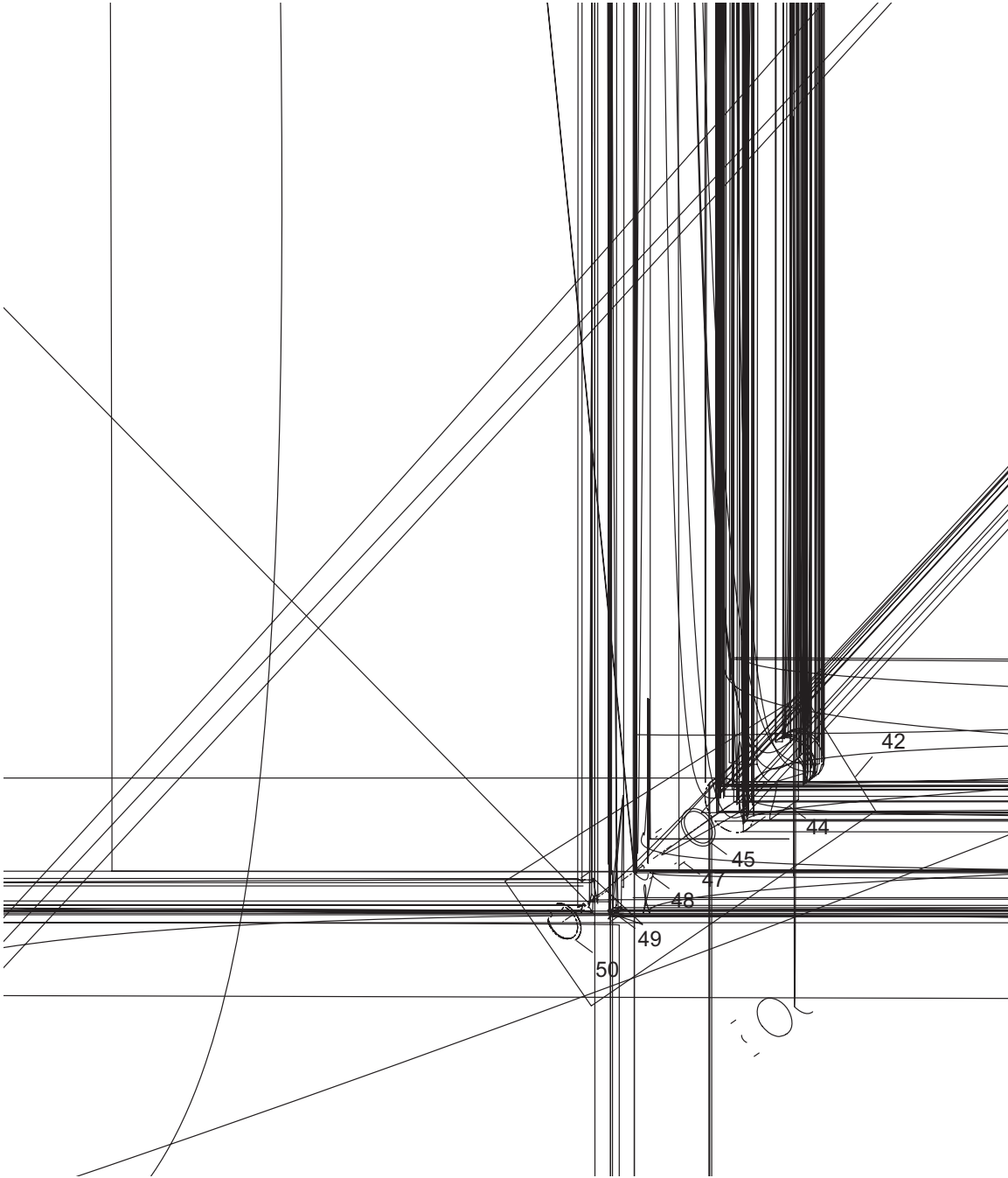


continued

Options

Piston Assy, 3150, Upfow

1800 SERIES BRINE SYSTEM AND
DRAIN LINE FLOW CONTROL
ASSEMBLY



1800 SERIES BRINE SYSTEM AND
DRAIN LINE FLOW CONTROL
ASSEMBLY continued

Body, Injector, 1800, Downfow,

Body, Injector, 1800 Upfow

Body, Injector, 1800, Upfow,

Downfow
Injector Assy, 1800, #4, Upfow

Downfow
Injector Assy, 1800, #5, Upfow

Downfow

Downfow
Injector Assy, 1800, #7, Upfow

Downfow

Downfow

Downfow

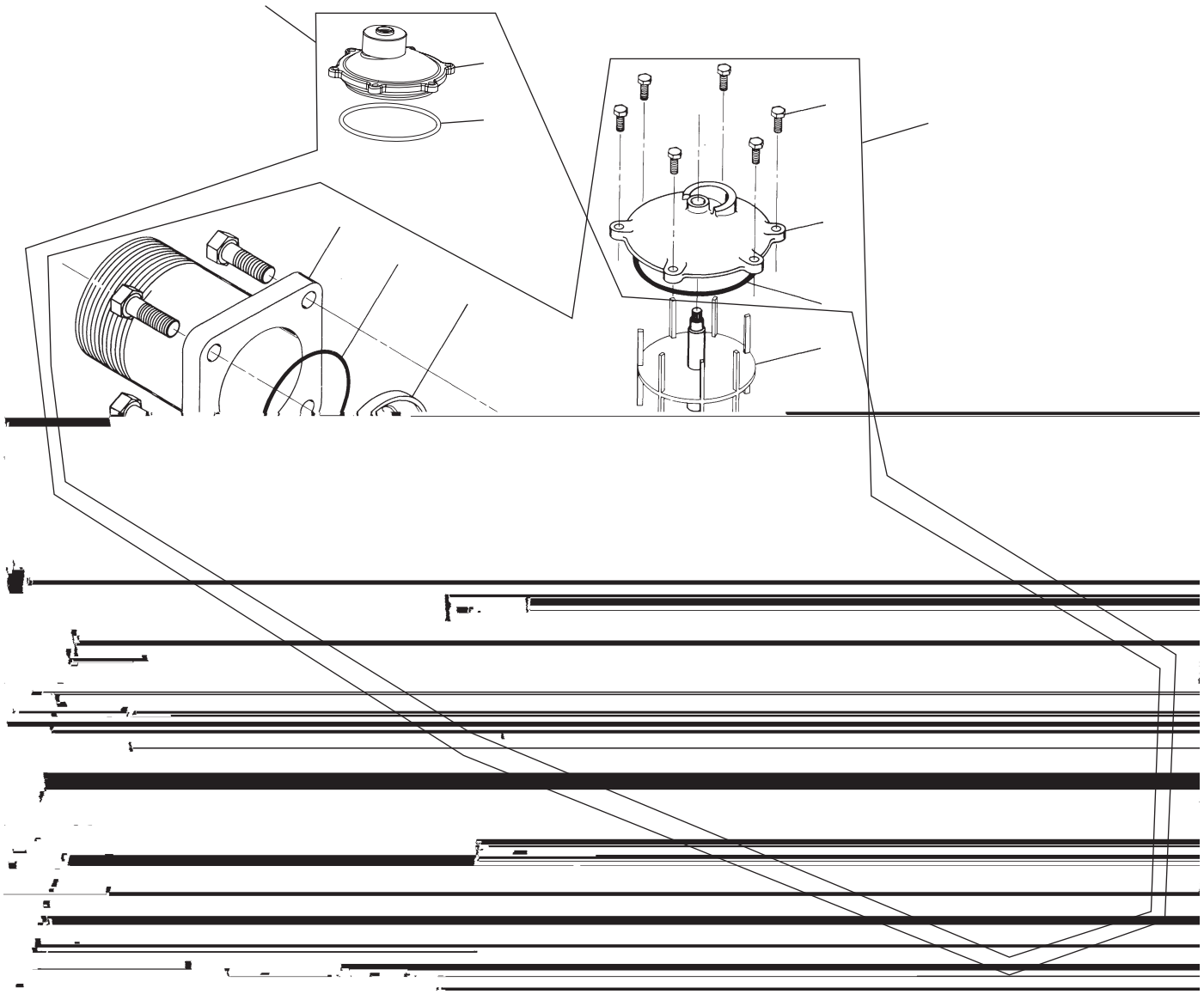
Brine Valve, 1800, Retroft Kit,
Downfow 1800 Injector and

Upfow

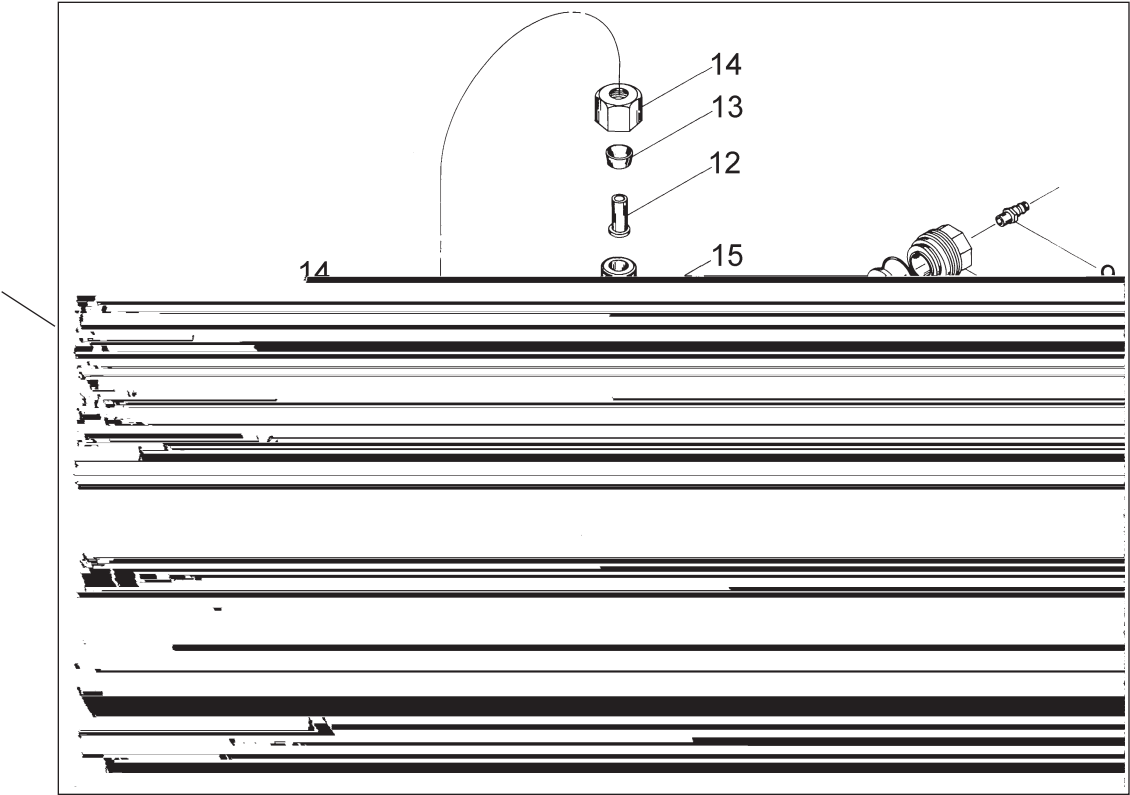
Upfow

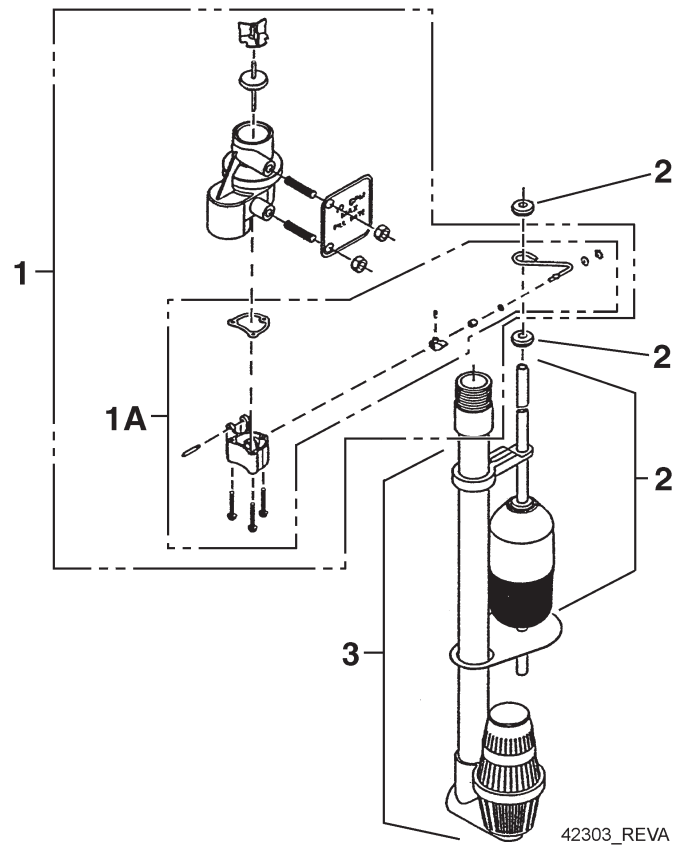
**1800 SERIES BRINE SYSTEM AND
DRAIN LINE FLOW CONTROL
ASSEMBLY *continued***

3" METER ASSEMBLY



ASSEMBLY





		Correction
	Insufficient water flowing into brine tank.	Check brine tank fill time and clean brine line flow
		Repeated flushings of the hot water tank is
	Improperly sized drain line flow control.	
		Check backwash, brine draw, and brine tank fill.
	Plugged drain line flow control.	Clean flow control.
	Foreign material in brine line flow control.	Clean brine line flow control.
	Drain line flow control is plugged.	Clean drain line flow control.
Drain flows continuously.		

1 Service Position

Correction:

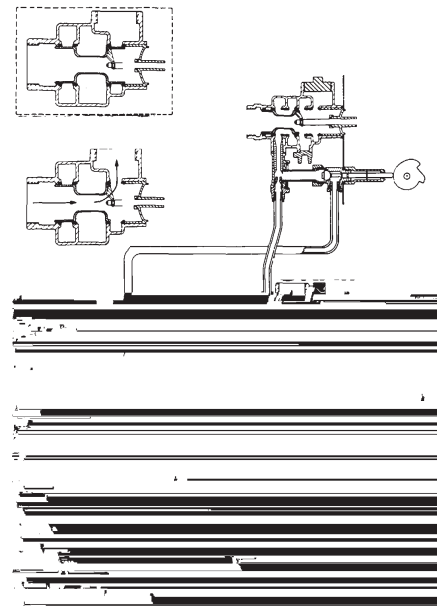
Correction:

Meter is not measuring flow.

Correction:



Hard water enters at valve inlet and flows down thru mineral to the bottom distributor. Conditioned water flows up thru the

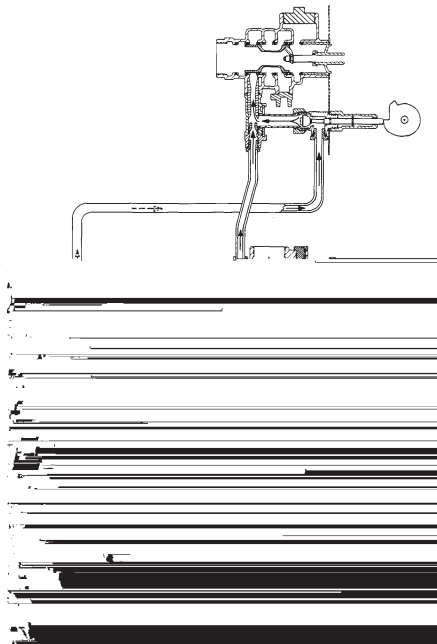


Hard water enters at valve inlet – flows thru service adapter

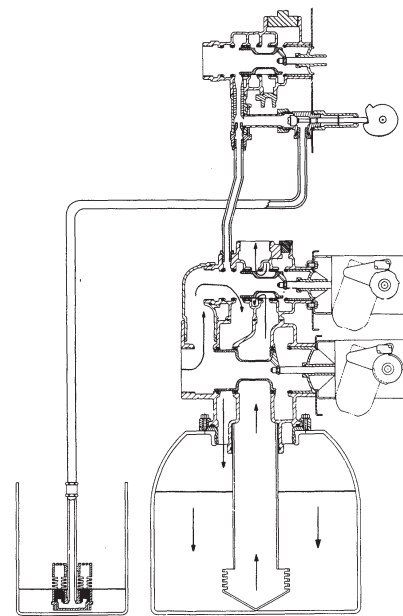
hard water by-pass piston is used, water flow to service outlet of the rapid rinse cycle or brine tank refill cycle, depending on

WATER CONDITIONER FLOW DIAGRAMS *continued*

3 Brine Position

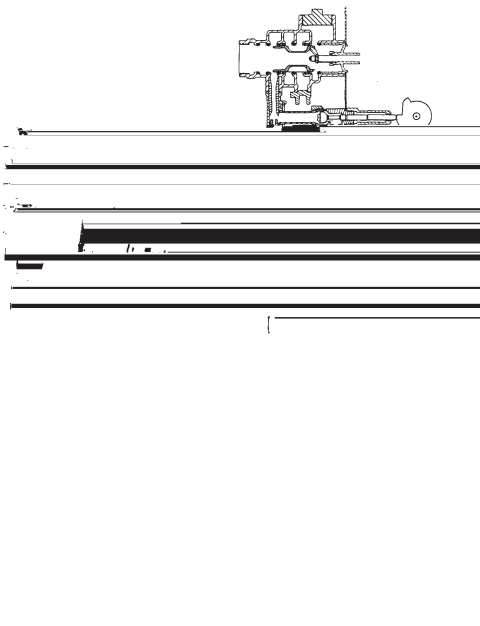


Hard water enters at valve inlet – flows thru injector nozzle and throat to draw brine from the brine tank. Brine flows down thru

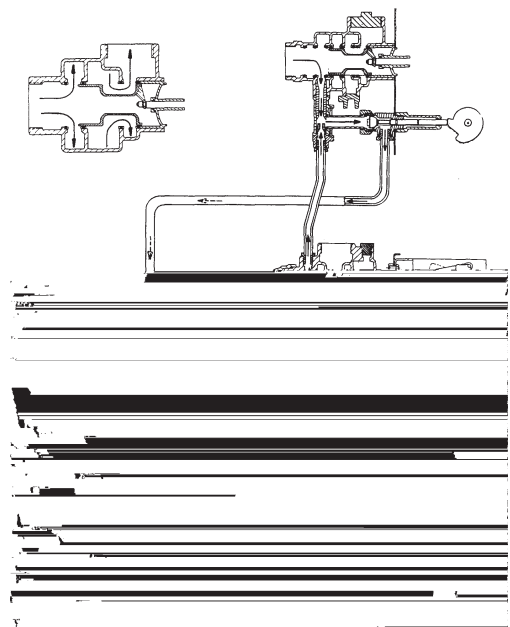


Hard water enters at valve inlet – flows thru the regeneration

4 Slow Rinse Position



Hard water enters at valve inlet – flows thru injector nozzle and

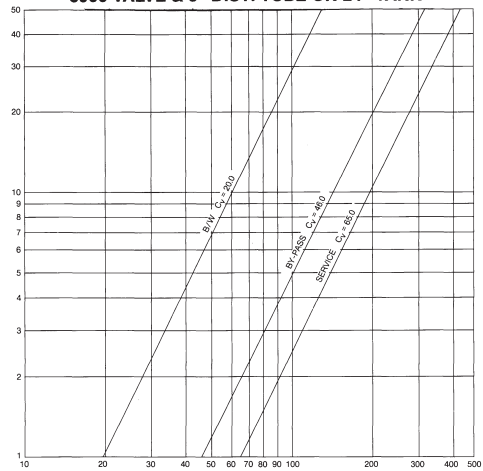


Hard water enters at valve inlet – flows thru nozzle and thru throat to brine valve to refill the brine tank. Inlet flow

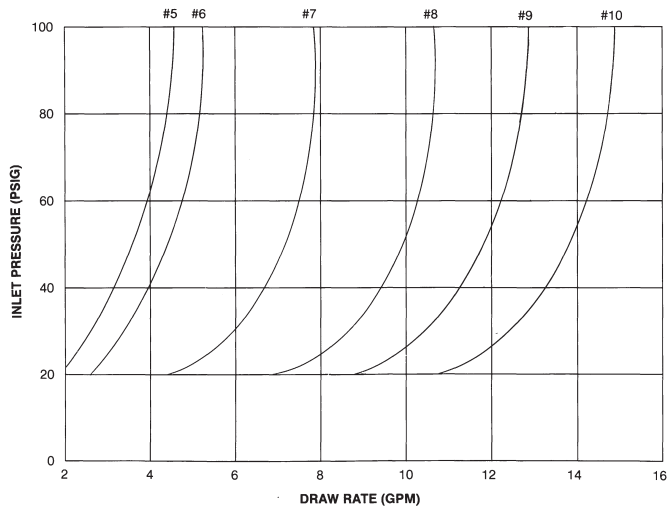
Conditioned water flows up thru the distributor tube, around the service valve in by-pass position until the end of brine tank refill

FLOW DATA & INJECTOR DRAW RATES

3900 VALVE & 3" DIST. TUBE ON 24" TANK

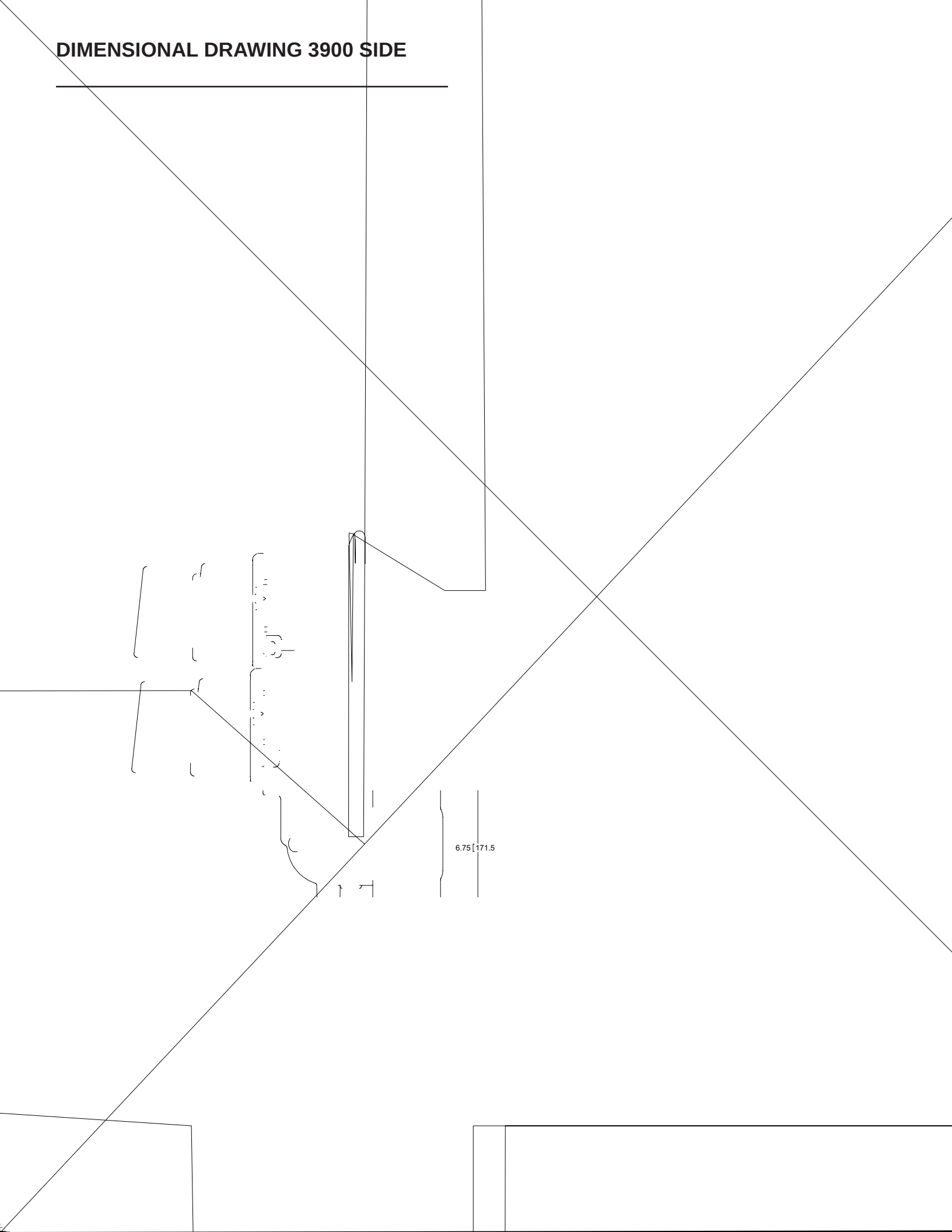


3900 ON EMPTY TANK

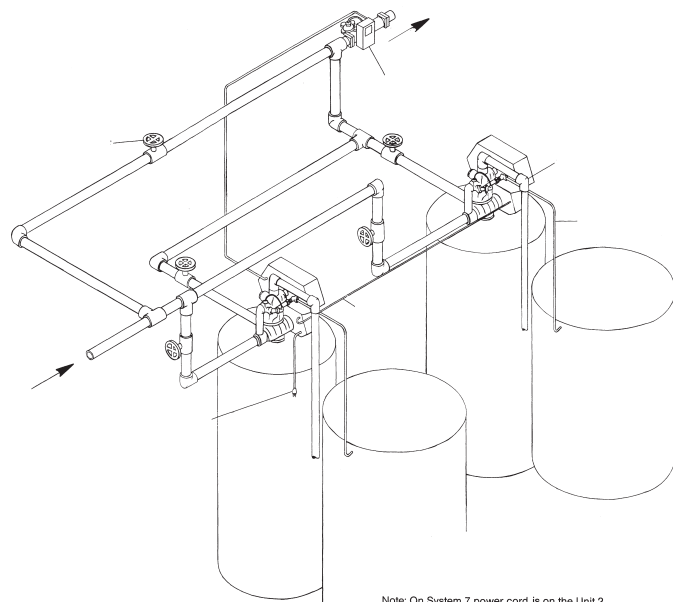
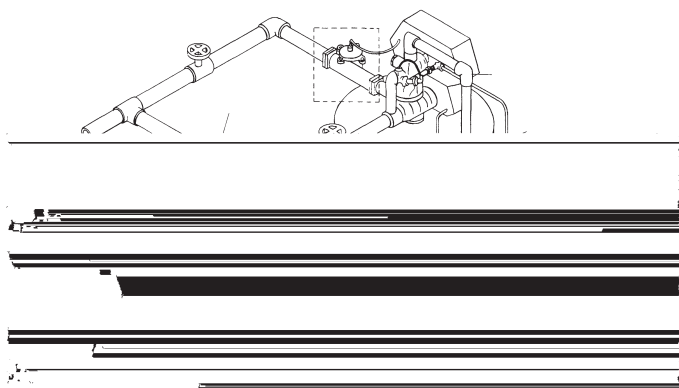


DIMENSIONAL DRAWING 3900 TOP

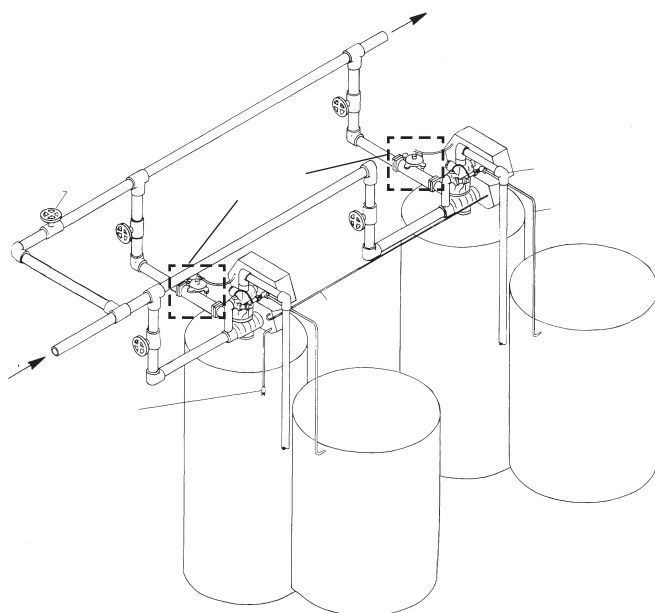
DIMENSIONAL DRAWING 3900 SIDE



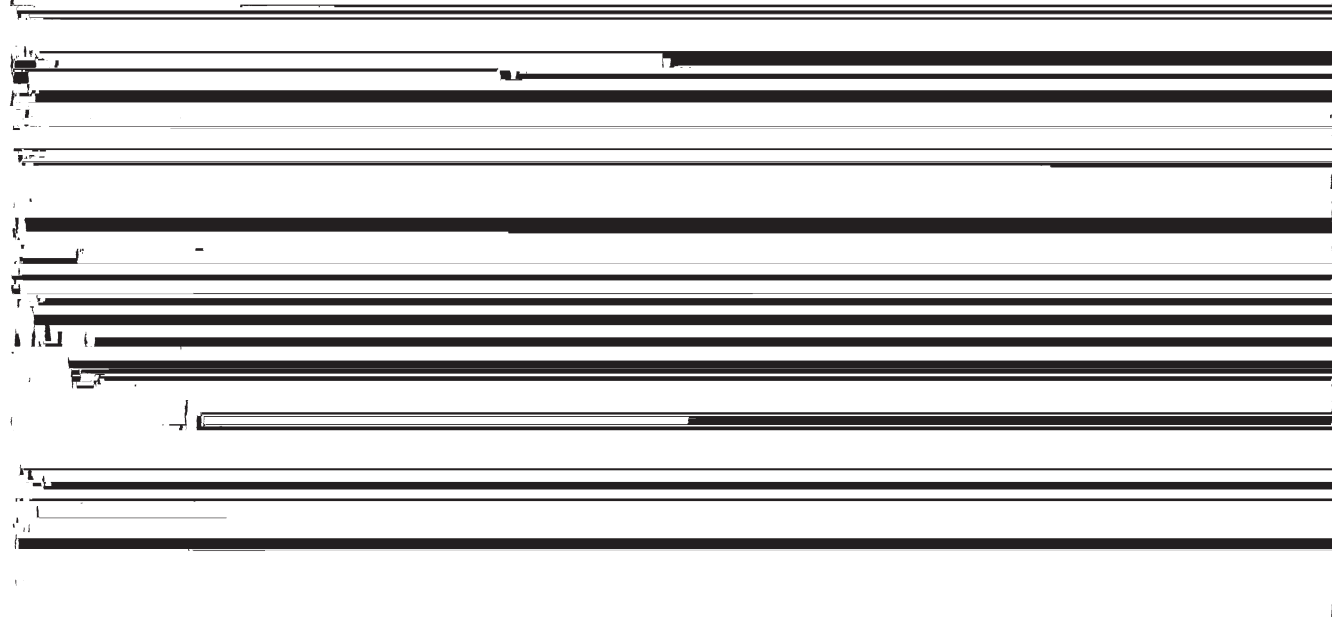
TYPICAL INSTALLATIONS



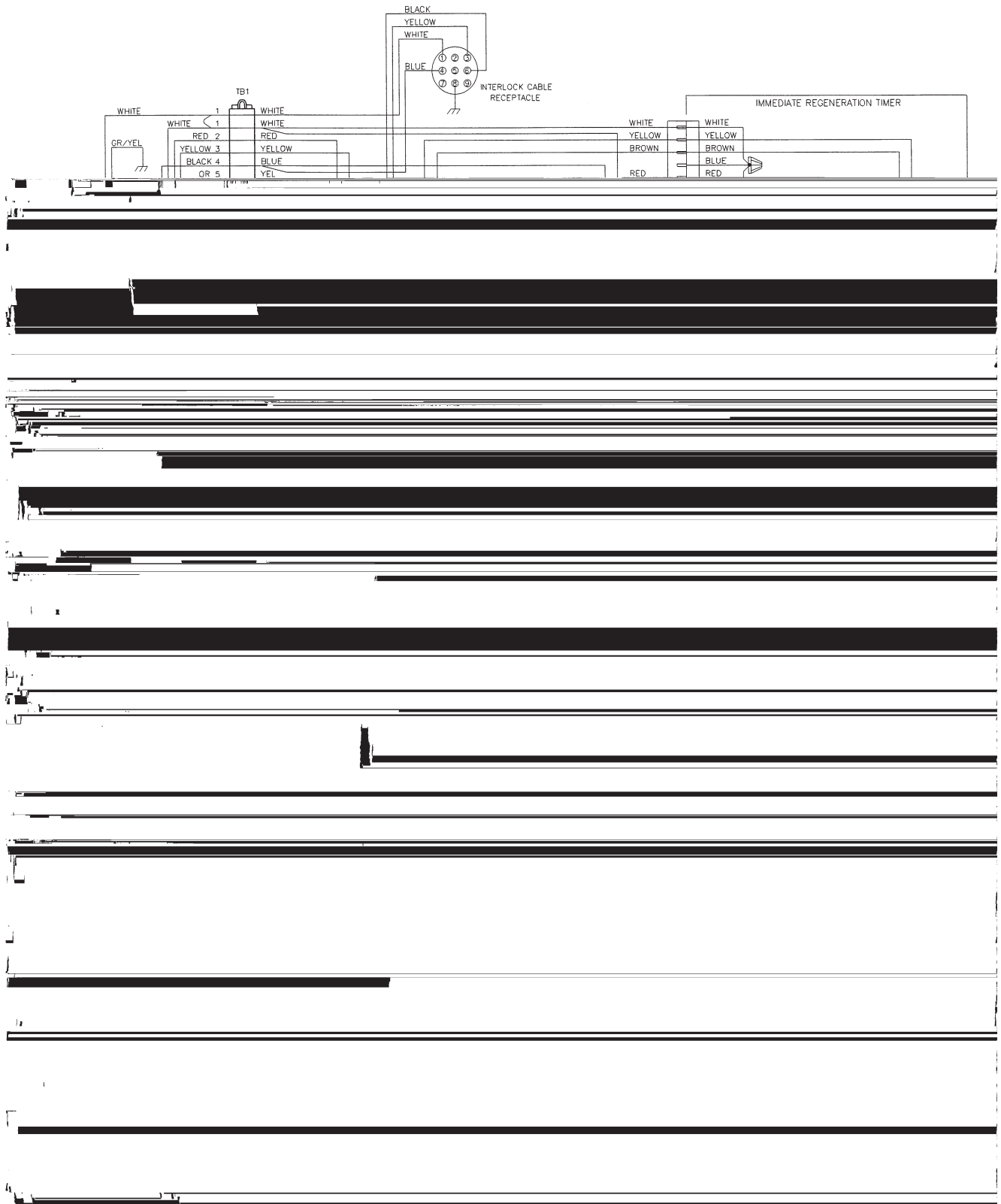
Note: On System 7 power cord is on the Unit 2.



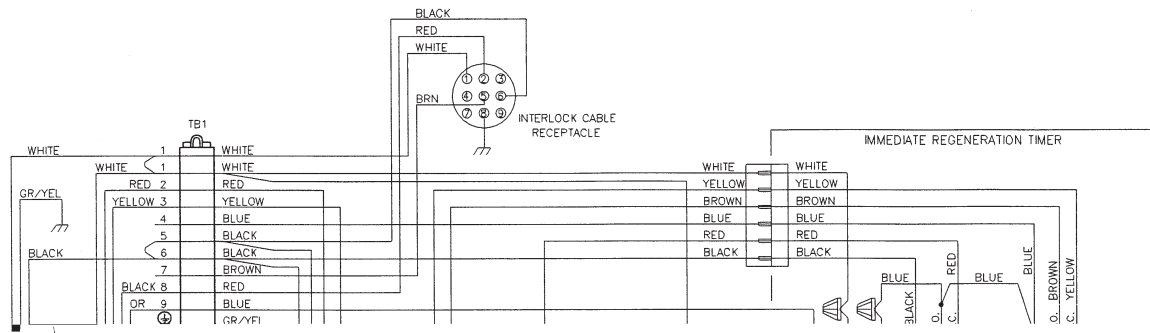
System #4

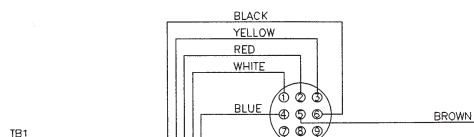


System #5



System #6





INTERLOCK CABLE
(CONNECT TO NEXT UPSTREAM VALVE OR REMOTE METER)

INTERLOCK CABLE RECEPTACLE
(CONNECT TO NEXT DOWNSTREAM VALVE OR JUMPER PLUG)

NOTE:
TWO TO FIVE TANK SINGLE METER ALTERNATING REGENERATION.
1 TO 4 TANKS IN SERVICE. ONE TANK IN REGENERATION OR STANDBY.
ALL VALVES AT FULLY CLOSED. FIRST VALVE AT STANDBY.

continued
