

INSTALLATION

R K

d A ddd

d d b K d b

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

d aN a d

breaks and back flow.

T(K NN Q Q N

CAUTION R k d 0 k d#
k d d A# .
c d e a d b
dd
d d

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.

. OH MN OOI B KM PM

O N R cd c R dd O
M b #Ad

. . . . M B I M O I
T N OOI B KM PM

O N Oc M b d K b

O c b Oc b c a d O f M Od

. N d Od #Ab /

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

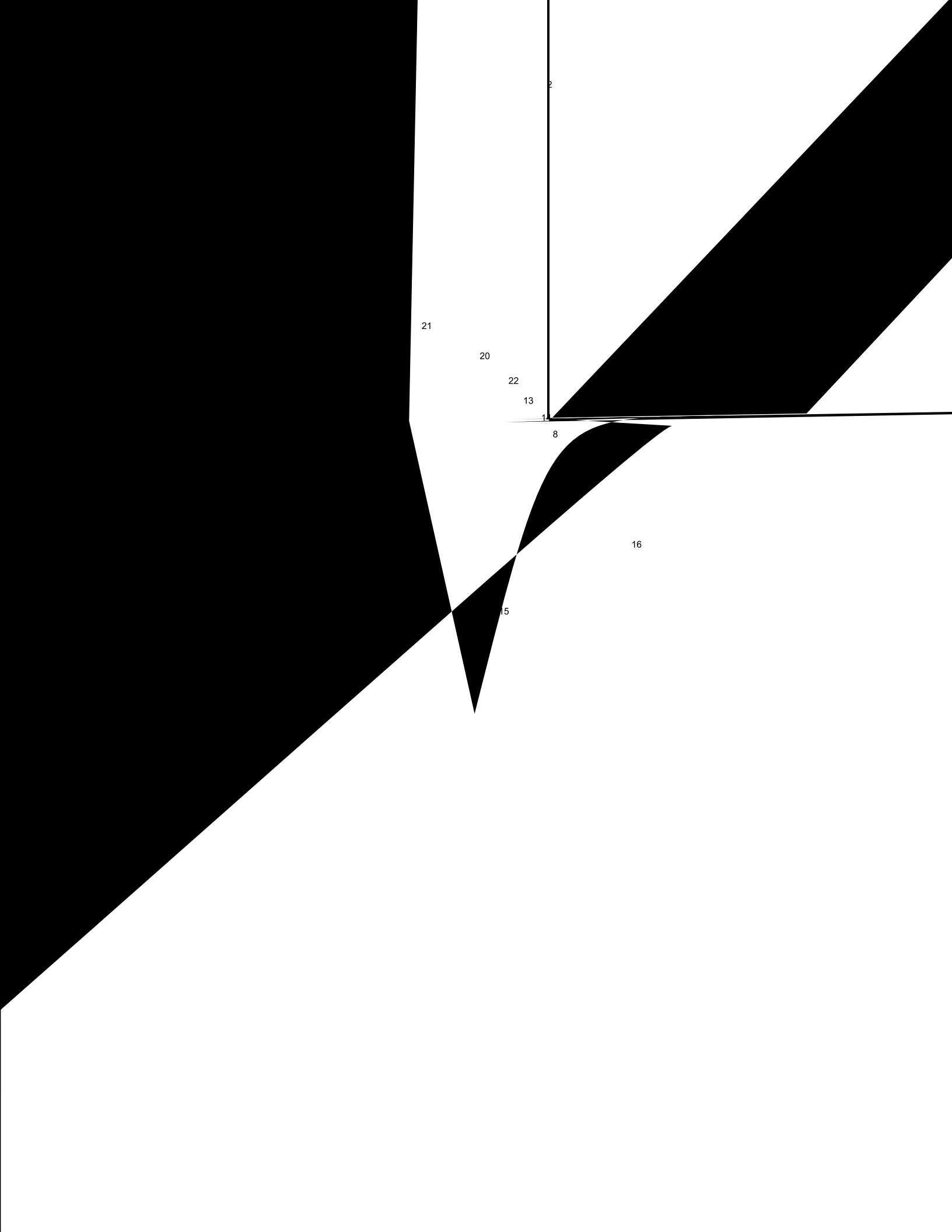
To change the length of refill time, move the two pins at the

Od N d b K

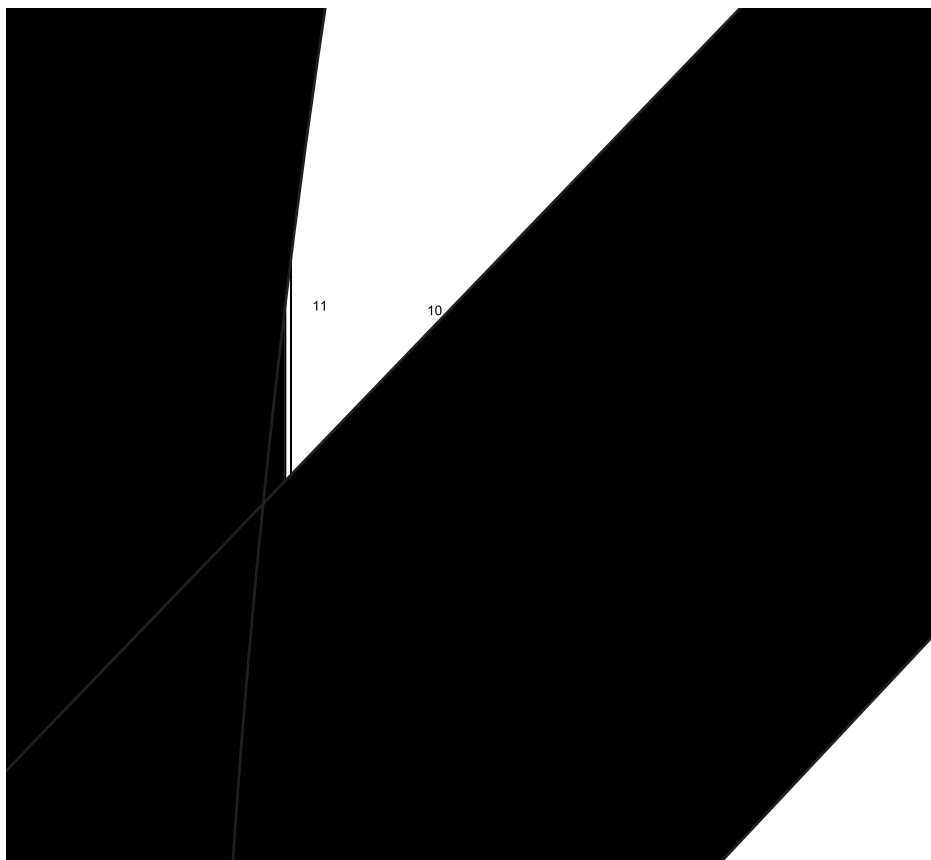
O c b Oc b c aOc f c Od

O c b Oc b c a d Md Od

O c b Oc b c aM kd Md



3210 METER DELAYED TIMER ASSEMBLY

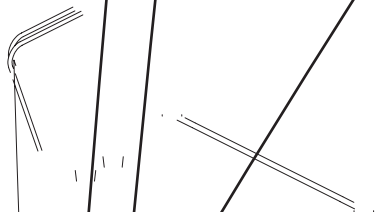


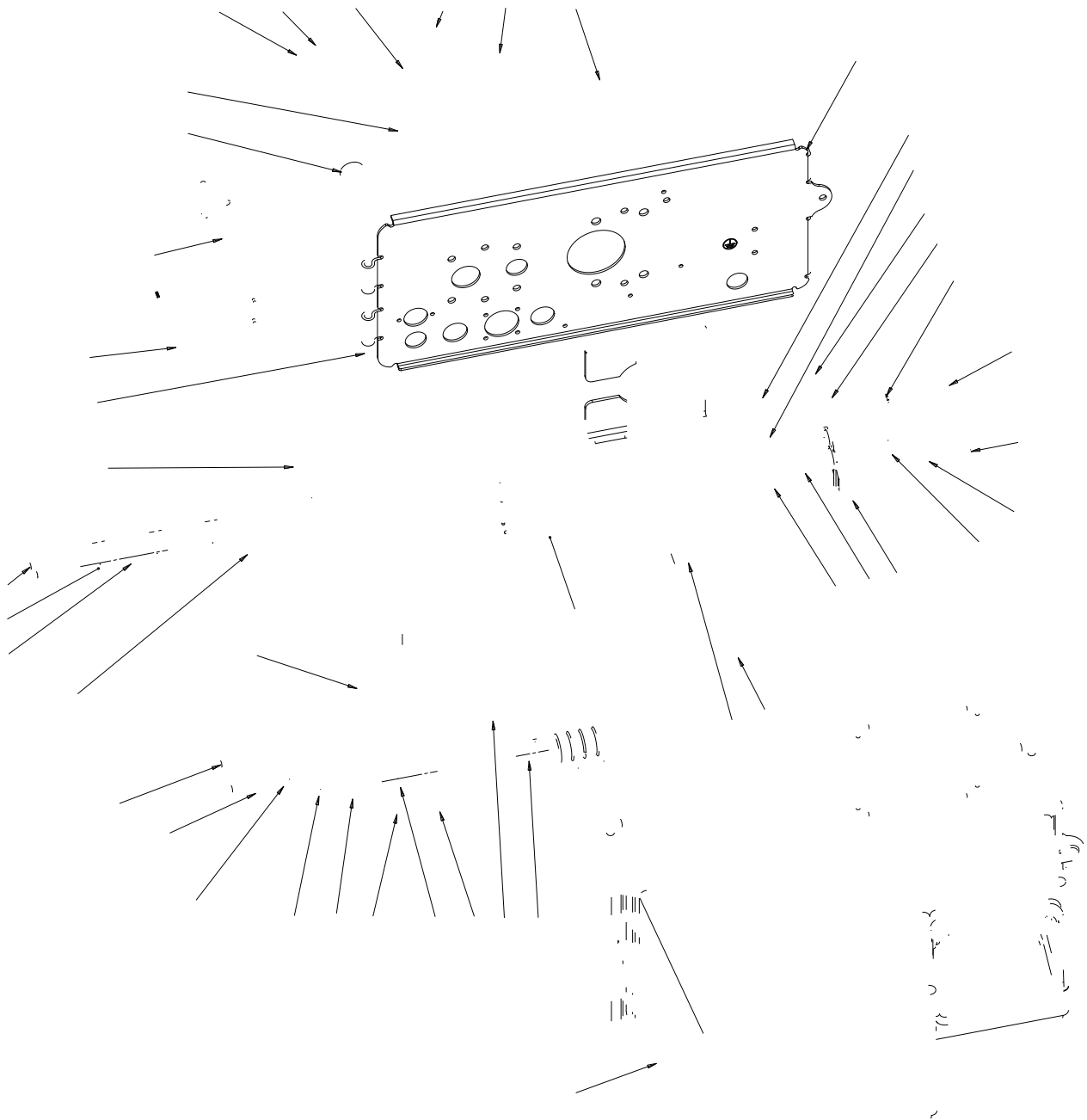
3220 METER IMMEDIATE TIMER
ASSEMBLY

I LOT K I ⚡ d

I LOT K I ⚡ d

3230 REMOTE START TIMER ASSEMBLY



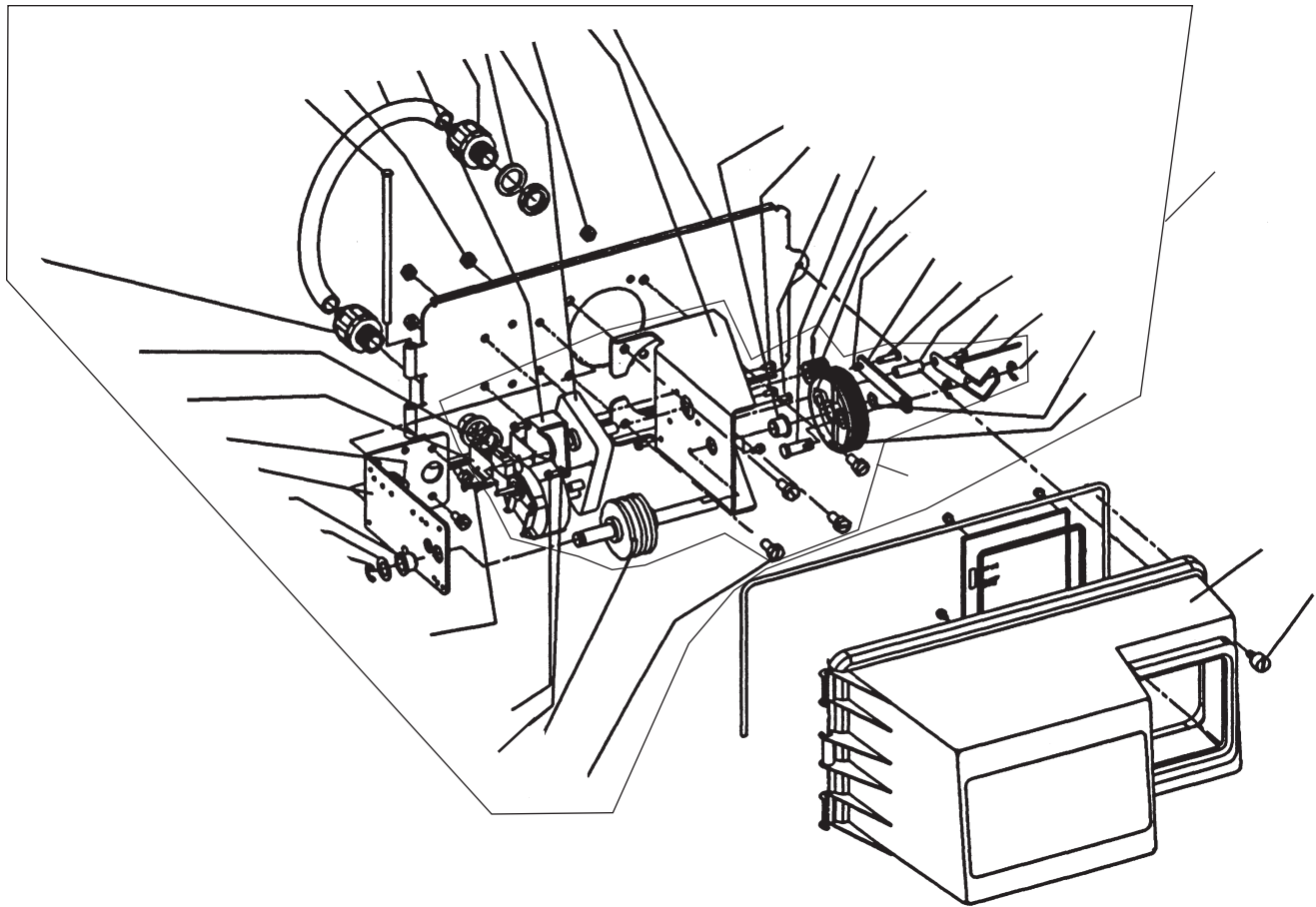


Drive Assy, 3150, 120V, Upfow,

I Nc

Upfow, Signal After Rapid Rinse

KO M I OM MQ R M
POWERHEAD



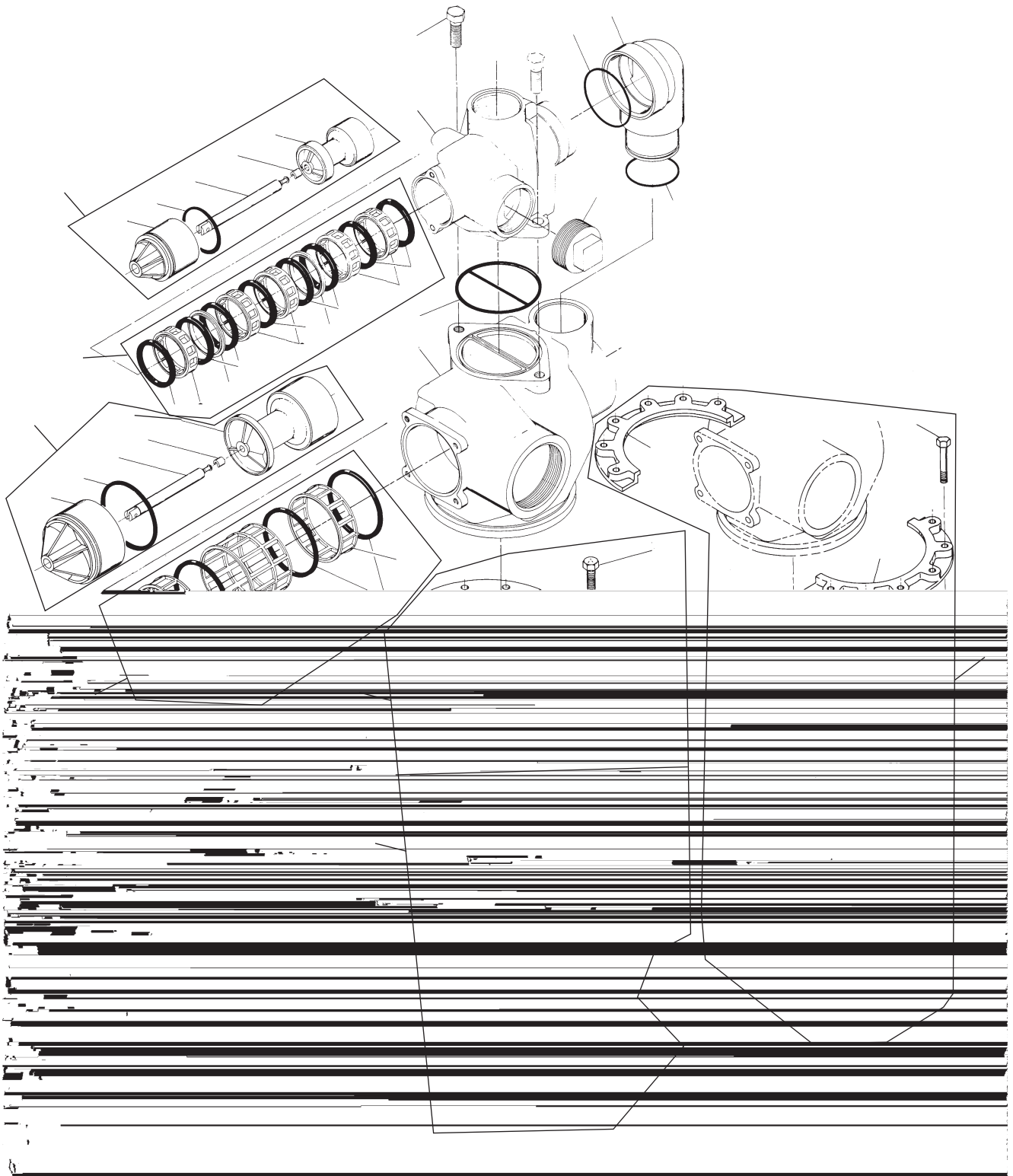
I LOT K I

dk d

I LOT K I

dk d

I Nc

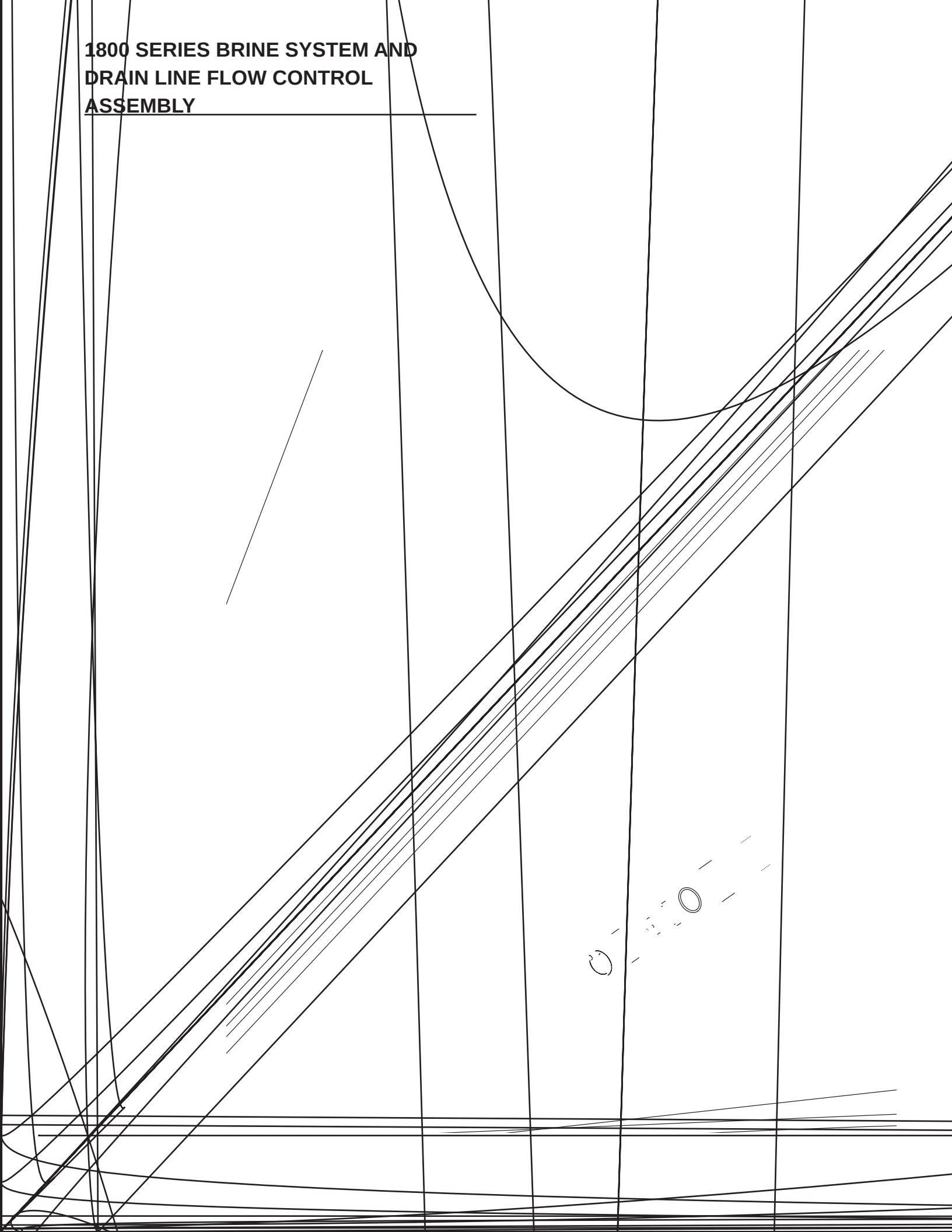


I LOT K I d d

I LOT K I d d
Options

Piston Assy, 3150, Upfow

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



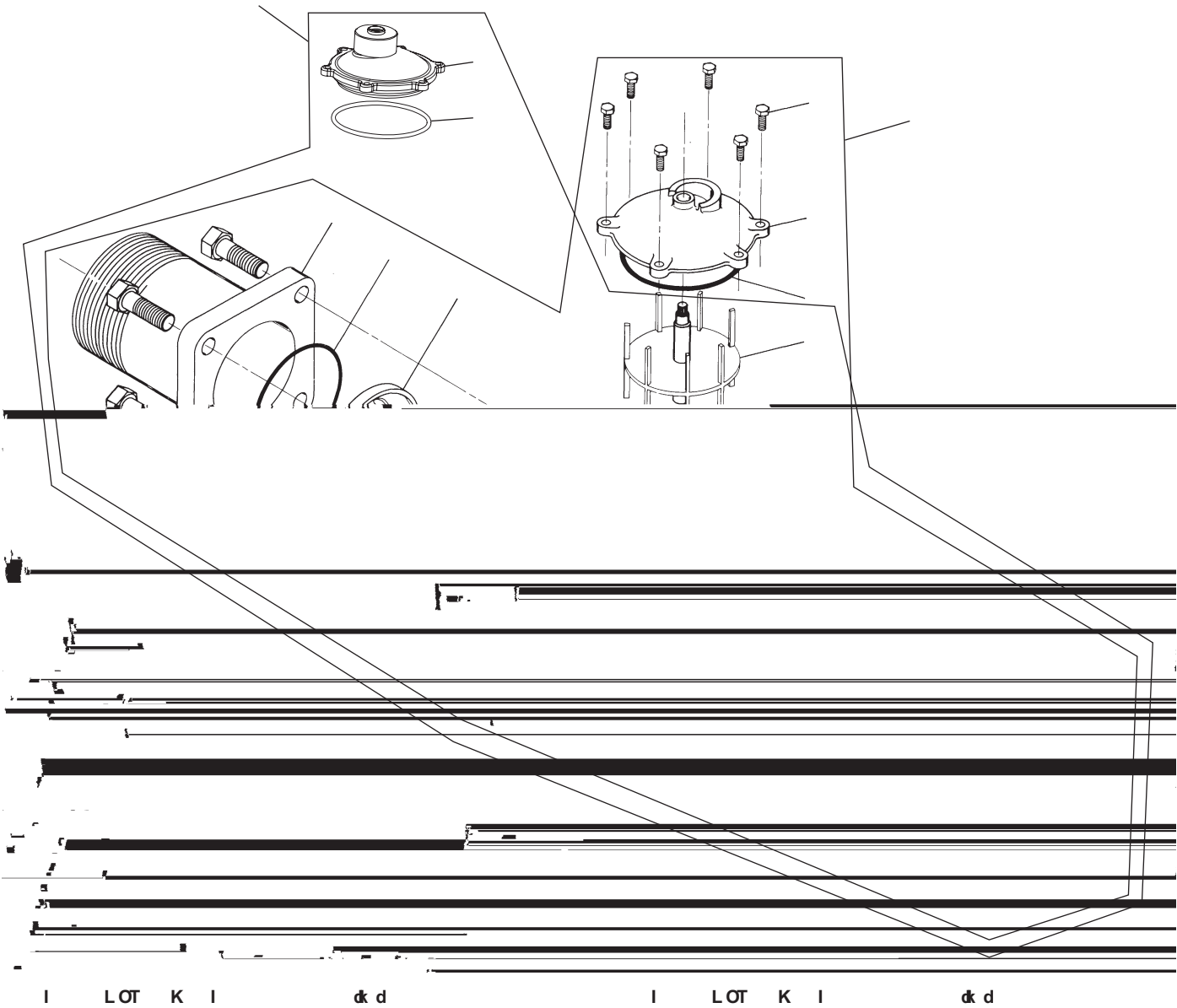
1800 SERIES BRINE SYSTEM AND DRAIN LINE FLOW CONTROL ***ASSEMBLY continued***

I	LOT	K	I	Kit	I	LOT	K	I	Kit
				Body, Injector, 1800, Downfow,					Downfow
				Body, Injector, 1800 Upfow					Injector Assy, 1800, #4, Upfow
				Body, Injector, 1800, 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*

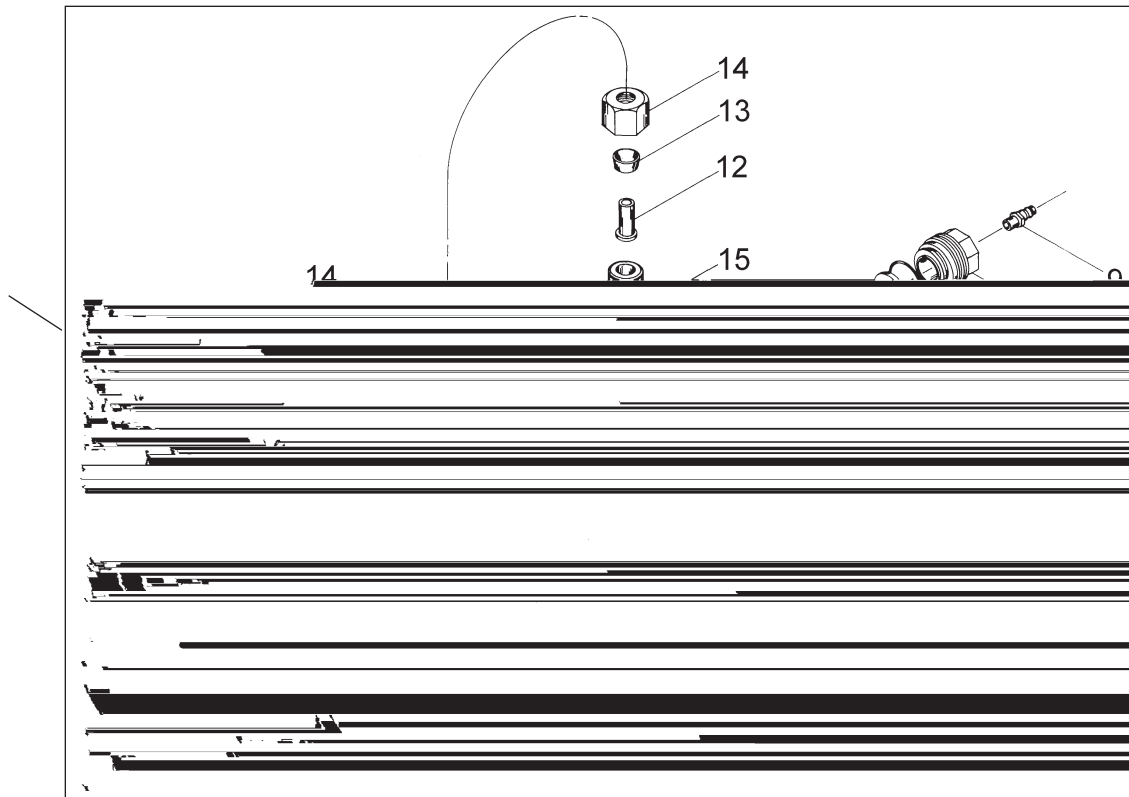
I	LOT	K	I	α d	I	LOT	K	I	α d
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3" METER ASSEMBLY



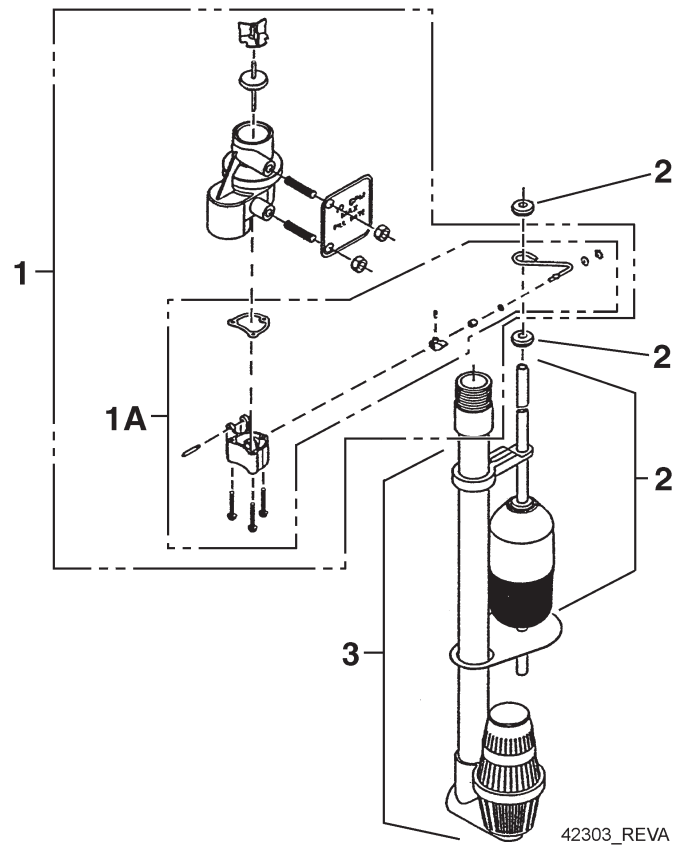
N MQ Q Q K M O M

ASSEMBLY



I LOT K I d d

I Nc



I LOT K I d d

I Nc

K		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.		

B I M N M Q I O N A M H O M CONTROL

K N a d c
M

Correction:

M

Correction:

M Meter is not measuring flow.

Correction:

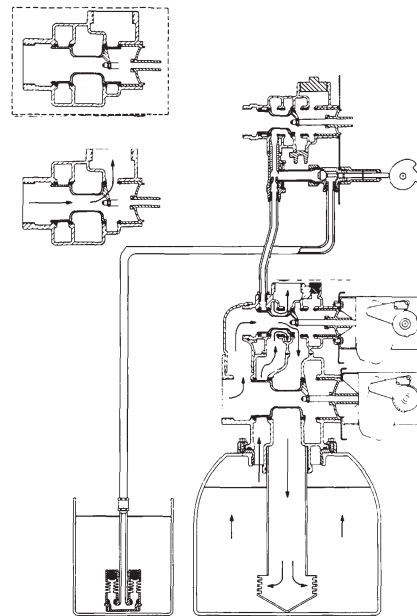
WATER CONDITIONER FLOW DIAGRAMS

1 Service Position



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

f c K dd

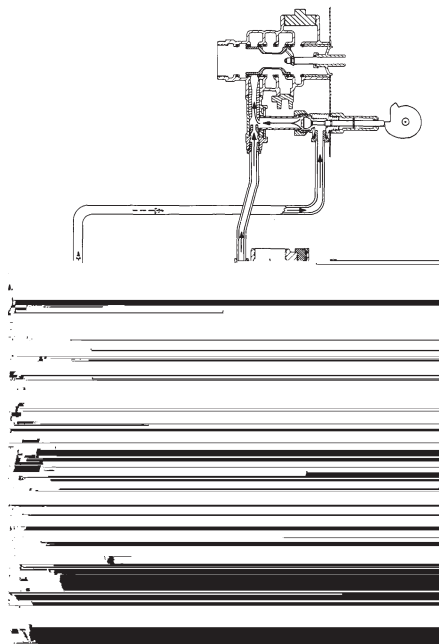


Hard water enters at valve inlet – flows thru service adapter

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

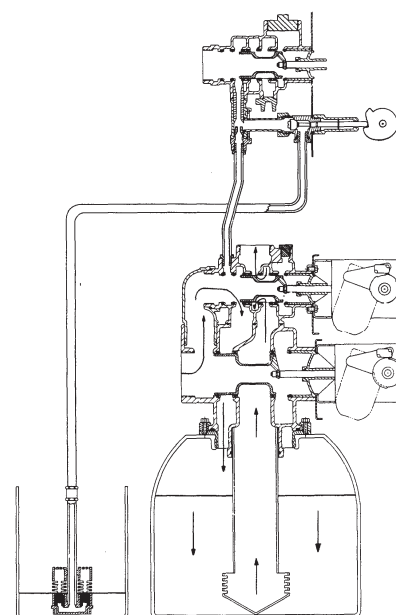
WATER CONDITIONER FLOW DIAGRAMS *continued*

3 Brine Position



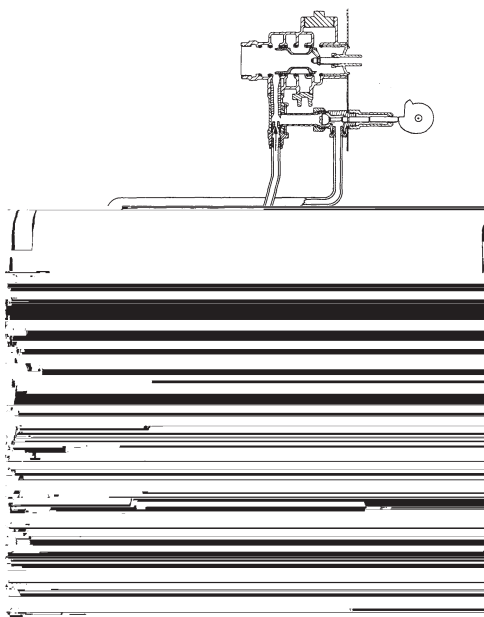
Hard water enters at valve inlet – flows thru injector nozzle and throat to draw brine from the brine tank. Brine flows down thru

0 M kd Md K dd



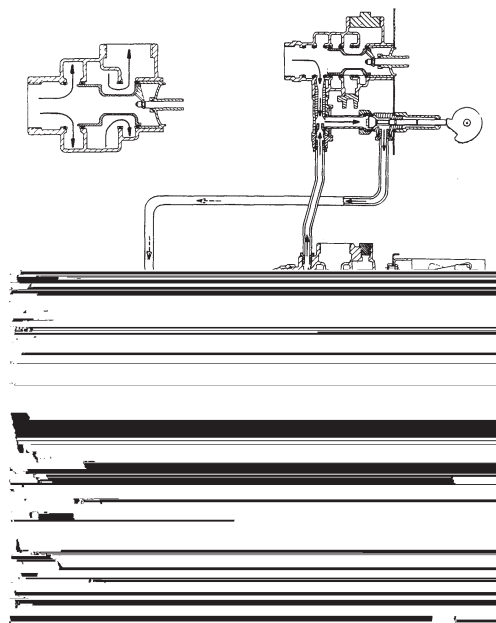
Hard water enters at valve inlet – flows thru the regeneration

4 Slow Rinse Position



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

d O f M K dd

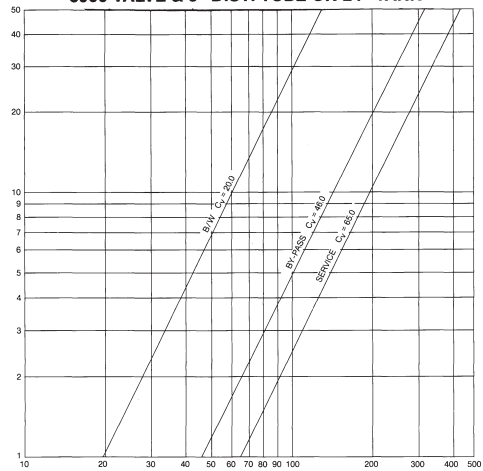


Hard water enters at valve inlet – flows thru nozzle and thru throat to brine valve to refill the brine tank. Inlet flow

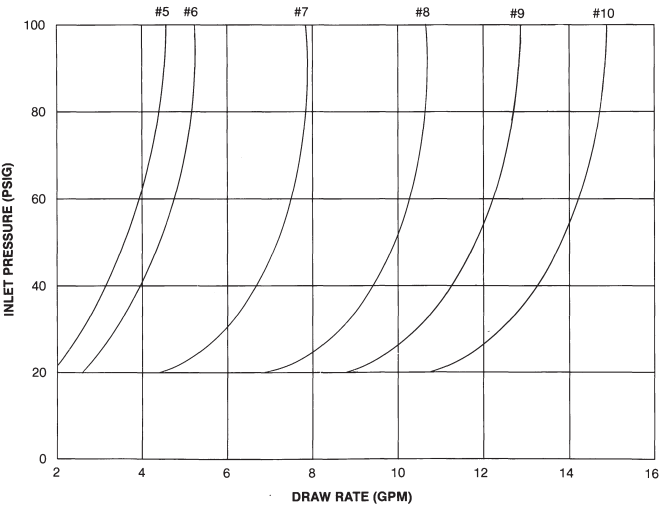
Conditioned water flows up thru the distributor tube, around the service valve in by-pass position until the end of brine tank refill

FLOW DATA & INJECTOR DRAW RATES

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



3900 ON EMPTY TANK

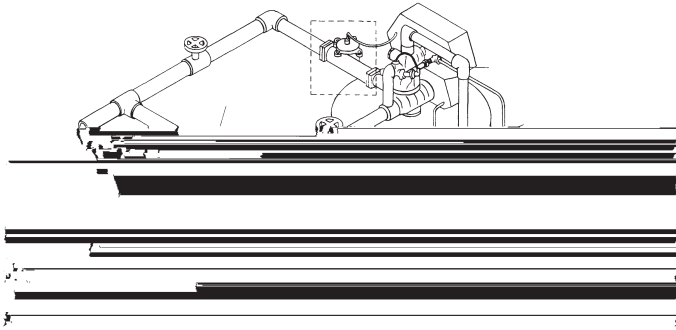


DIMENSIONAL DRAWING 3900 TOP
H P I O

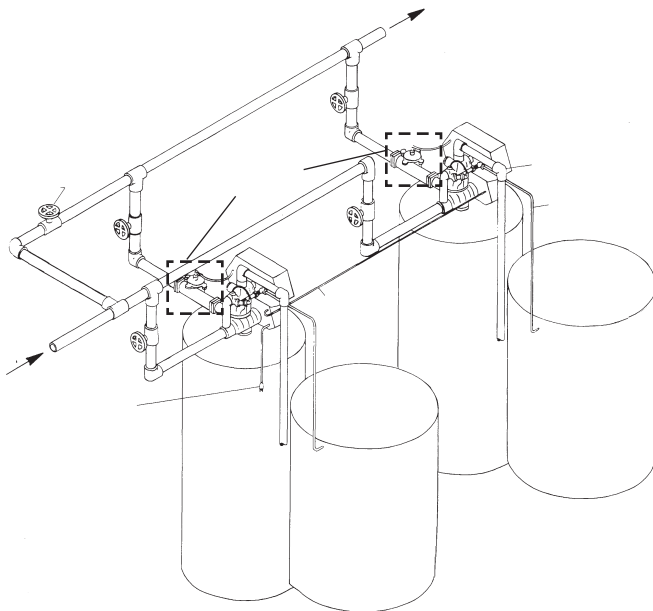


TYPICAL INSTALLATIONS

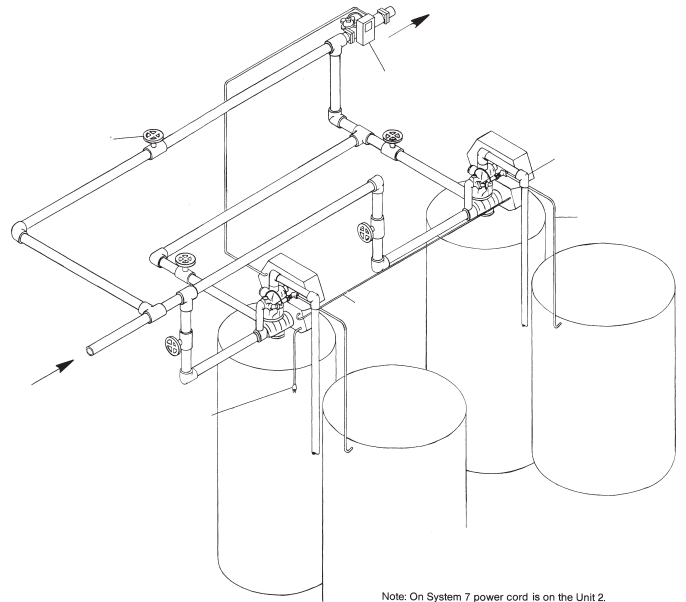
N / (O kd Ndb O f d dc
k d H



N 0 f (O kd O d O f
I d dc k d H O d O f
R k

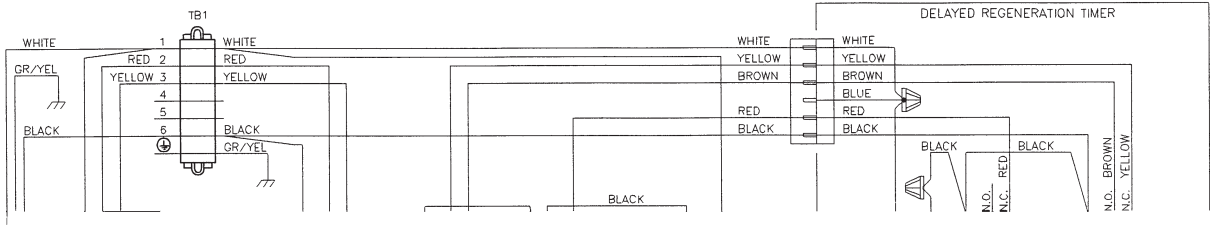


N f (O kd O d O f
I d dc k d H O d O f
R k



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

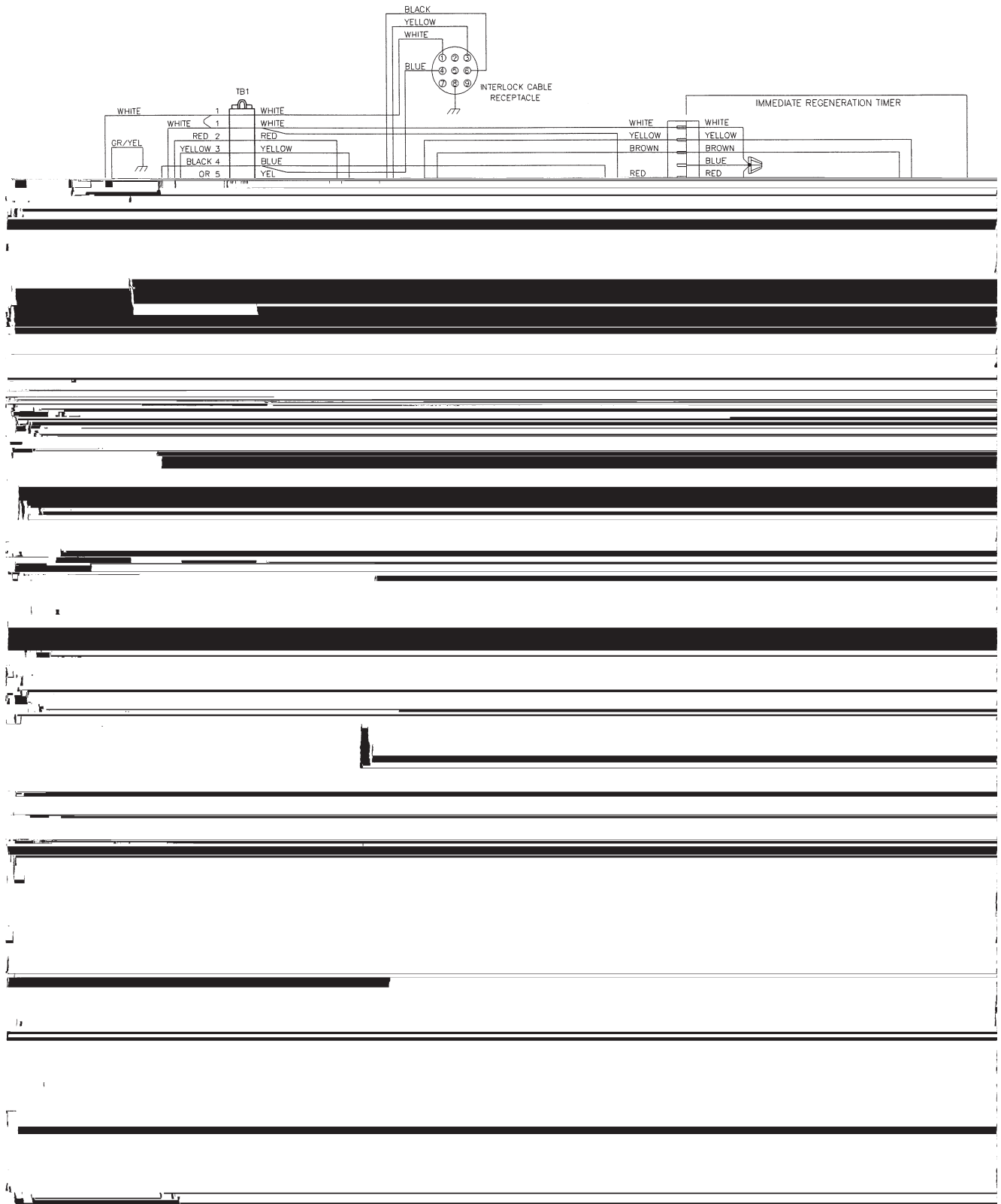
System #4

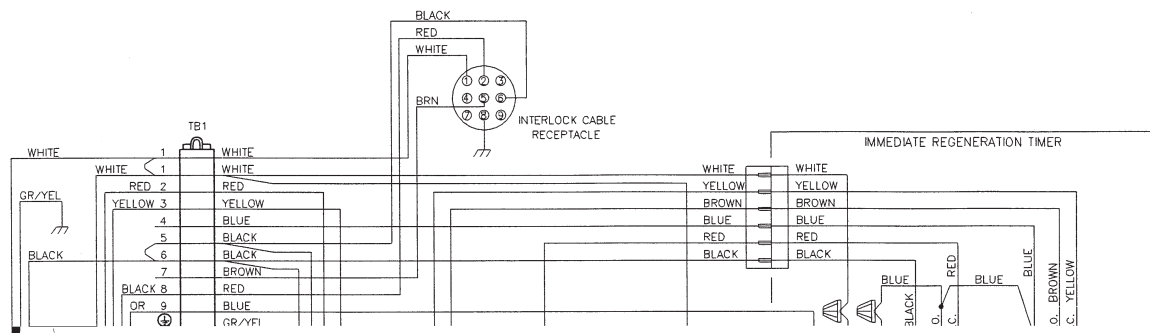


N / dc M H

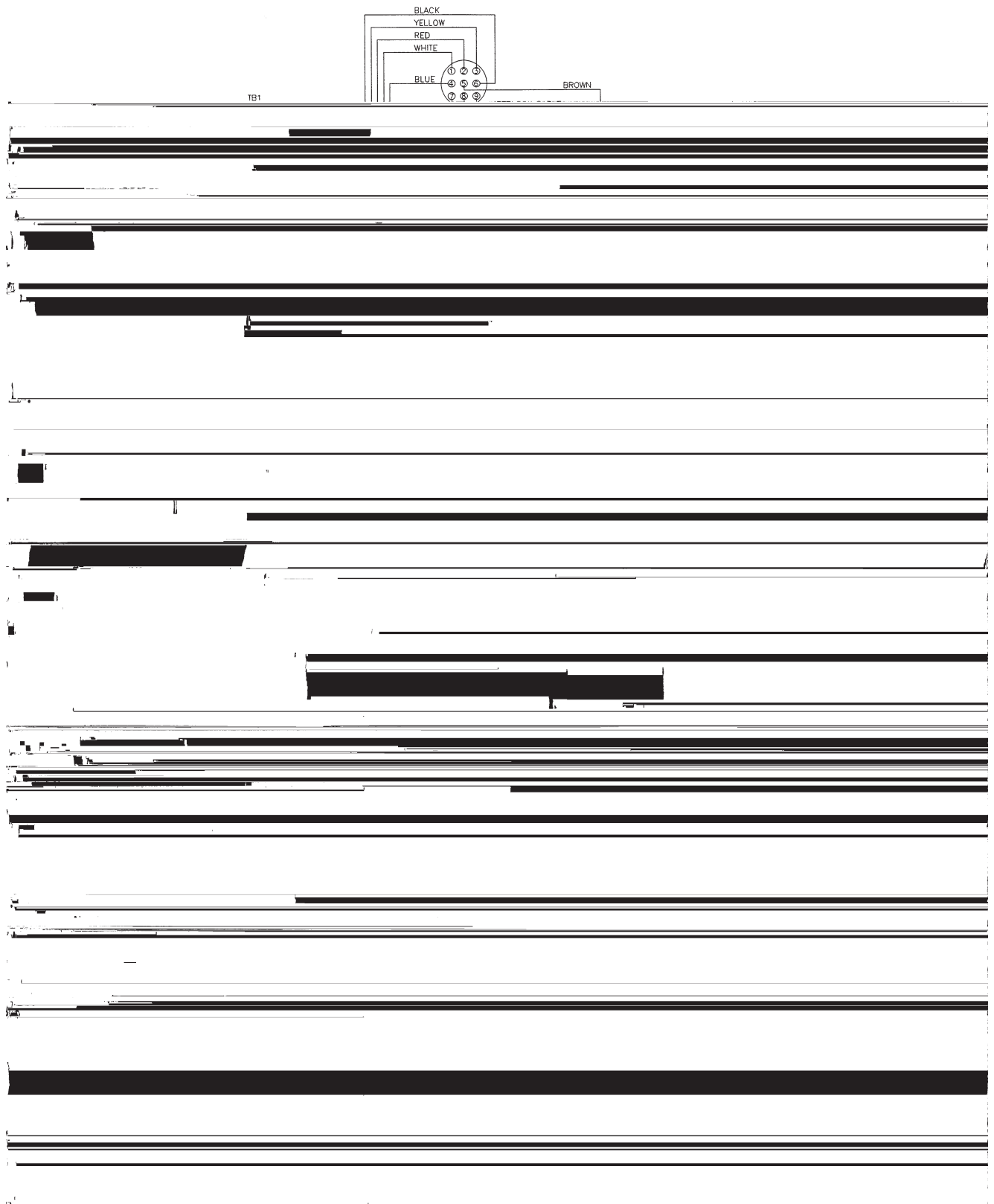


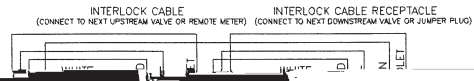
System #5





System #7





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

N MQ NN H N

. (d Q

0 (. 0 Q N d H (

(e

. (. Pkk N d

(. Pkk Kd

. (. N d

(. Kd (R

. N a d Q . 0

/ k Nd H .

(. Kd (I R

0 (. 0 NQ . 0 .

. . Pkk N d

. . N d

0 (. Pkk d H (

0 Q

N MQ NN H N *continued*

d d A # A

