

PERISTALTIC PUMP OPERATORS MANUAL

FOR MODELS: 913-2408 913-2450 913-24127



www.

а Э

kopro

ducts

с о *т*



Every precaution for accuracy has been taken in the preparation of this manual, however, Anko Products, inc. neither assumes responsibility for any omissions or errors that may appear nor assumes liability for any damages that result from the use of the products in accordance with the information contained in the manual.

,

REPLACEMENT PARTS LIST	DC MOTOR BRUSH INSTALLATION	FUSE INSTALLATION	TUBING INSTALLATION GUIDE C	TUBING INSTALLATION GUIDE B	TUBING INSTALLATION GUIDE A	TUBING INSTALLATION	ROLLER/TUBING SELECTION	PUMP INSTALLATION	PUMP FEATURES	RETURN & REPAIR	WARNING	WARRANTY	TABLE OF CONTENTS
œ	7	7	6	6	сл	ы	4	4	ω	2	2	2	

.

ABLE OF CONTENTS	
VARRANTY	2
VARNING	2
ETURN & REPAIR	2
UMP FEATURES	ω
JMP INSTALLATION	4
OLLER/TUBING SELECTION	4
JEING INSTALLATION	Б
JBING INSTALLATION GUIDE A	Сл
JEING INSTALLATION GUIDE B	6
JBING INSTALLATION GUIDE C	6
se installation	7
MOTOR BRUSH INSTALLATION	7
PLACEMENT PARTS LIST	o

50. F

please call: 941-749-1960

or have questions regarding the use or installation, with its performance. Should you need assistance pump. We are sure you will be completely satisfied Thank you for purchasing an Anko Mityflex Peristaltic

number: THE RETURN AUTHORIZATION NUMBER MUST BE MARKED CLEARLY ON THE RETURN PACKAGE.	Please direct all warranty and repair requests to Anko Products, Inc. Customer Service Department. Before returning any unit please call 1-941-749-1960 to request an authorized return	RETURN AND REPAIR REQUESTS	Anko Products assumes no responsibility or liability for chemical compatibility of our tubing in specific applications. ALWAYS pretest tubing in accordance with tubing manufacturer's specifi- cations. Tubing that shows signs of swelling, embrittlement or other deterioration should not be used.	WARNING	LIMITED WARRANTY ANKO PRODUCTS, INC., warrants equipment of its manufacture and bearing its identification to be free from defects in workmanship and material. ANKO PRODUCTS, INC,'s llability under this warranty factory or authorized distributor. It is limited to repairing or replacing any device or part of any device which is returned, transportation prepaid, to the factory within one year of delivery to the original damage of whatever nature, damage of equipment during transporta- tion, damage due to improper handling, installation or Improper operation or for determining suitability for the particular use intended by the purchaser. Replaceable parts including tubes supplied with the product are not covered by any warranties either express or implied. ANKO PRODUCTS, INC., makes no warranties either express or implied, including implied warranty or merchantability, other than those stated above. No representative has authority to change or Florida. This warranty in any respect. Jurisdiction and venue for enforcement of this warranty may be brought only in the State of Florida. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.
Flow range based on pumping water at 25°C and 0 PSI using 60 durometer thermoplastic elastomer tubing.	.250 J4.0 - 400.0 913-24127 .062 1.7 - 48.0 .125 7.0 - 190.0 .187 16.0 - 456.0 .250 28.0 - 800.0	913-2450 .062 0.8 - 24.0 .125 3.0 - 96.0 .187 8.0 - 728.0	FLOW RANGE: See alog Model # 1-2408	 IV. UC MOTOR BRUSHES: Replaceable (See page 7 for replacement procedure and page 8 for replacement parts.) II. WEIGHT: 13 lbs. 	 3 The MITYFLEX[®] variable speed drives are powered by a DC gearmotor. A specially designed electronic speed control system provides smooth acceleration control over the entire flow range. The three position on/off switch allows the user to unit is designed for continuous operation at any speed. FEATURES ELECTRICAL: 115 VAC, 60HZ PRIMING: Unit is self priming and will hold vacuum when off. OPERATION: Pump can run dry without damaging the motor or drive unit, however the tubing life will be reduced. CONSTRUCTION: High impact plastic and long lasting alloy metals housed in a steel enclosure. MAX. HEAD PRESSURE: 40 PSI. Normal pressure 18 PSI varies depending on tubing used. FATING: 100% continuous operation at maximum of 40°C ambient. FUSE: Located in the inlet receptade. Uses 5 X 20mm - 2.0 amp. number)

Ъ

1400

INSTALLATION INSTRUCTIONS

ъ

- 1. POWER REQUIREMENTS: Voltage and frequency of power supply must be the same as shown on un[t]
- 2. WIRING CONNECTIONS: All wiring and electrical connections must comply with local and national electrical codes.
- ω MOUNTING: Case enclosed model may be placed on any for air circulation through ventilation holes. Do not allow flat surface assuring space is provided at the back of the case
- 4 MOUNTING LOCATION: Pump should be placed in a dry tubing to be crimped. temperature should not exceed 40°C. location with adequate cooling provided. The ambient

WARNING

This unit should not be used in outdoor or hazardous locations.

ROLLER/TUBING SELECTION

are included in your tubing kit. See separate instructions for tubing I.D. Your unit is assembled with black rollers. Red rollers Use the following color coded rollers with the appropriate Black Black Roller roller replacement enclosed in your tube kit. 3/16"(.187) 1/8" (.125) 1/4" (.250) Tubing ID 2 ա տ ML/Revolution

3/8"(:375)OD tubing (sleeve) for operation in pump. *The 1/16"ID tubing must be inserted into a 3/16"(.187)ID \times

Red Red

*"91/I

0.8

(INLET POR

FIG.

1

GRIPPER

VARIABLE SPEED

I. Variable speed control may be set at any level before turning

2. Unit is designed for continuous operation at any speed unit on

CAUTION: Avoid prolonged operation in the stalled position to assure longer motor life.

TUBING INSTALLATION

working with themicals. See chart below for proper tubing installaoccurs. Always wear safety glasses and protective clothing when inspect all tubing regularly and replace if any sign of deterioration

tion procedure for your unit.

TWARNING MODEL 913 3409 GEARTRAIN CAN BE DAM-	+WARLING M
Procedure B or C.(pages 6 or /)	913-24127
Procedure A or B (below or page 6)	913-2450
Procedure A (below)	* 913-2408

INSERTION. AGED IF DRIVE SHAFT IS ROTATED BY HAND FOR TUBE * WARNING: MODEL 913-2408 GEARIRAIN

PROCEDURE A

(If unit is new start with step number 6.)

- Disconnect power to the pump.
- Disconnect the suction and tubing. discharge tubing from the pump

FIC.

- س Remove four thumb screws and pump cover.
- Pull out old pump tubing and discard.
- ç Clean roller race, removing any particles that could damage tubing.

FIG. 2

- ው assembly is in position as shown in slowest speed until roller bracket case. Connect power and run at rarily anchor the housing to the Use one thumb screw to tempo-
- using a 9" piece of tube, 1 1/2" anchoring tubing in grippers. If Push new tubing into inlet port, should be extended outside of Inlet tigure 1. port (figure 2)
- 20 æ carefully feeding tube into race as Continue to run at slowest speed the rollers turn.(Flgure3) Insert tubing Into outlet port (KEEP FINGERS AWAY FROM ROLLERS.)

(figure 4) and replace cover;

FIG.





-

out from outlet port of pump. Install new tube by inserting into inlet port; continue the unit at high RPM. Pull the old tubing Without removing the pump cover, run roller assembly to push tubing through. a time, this should make installation easier tube and continue to feed tubing 1/4" at put your finger over the Inlet hole of the When tubing is half way around the race. feeding tube 1/4" in at a time allowing the is obtained. Run unit for about one Continue until desired tubing extension

Using extra bracket (figure I), until it is in position as in figure 2. rotate roller bracket assembly (Be sure power is disconnected)

\$

following:

A, then continue with the Follow steps 1/- 5 in procedure

- 2 outside of inlet port. tube, 1 1/2" should be extended anchoring the tubing in grippers Push new tubing into inlet port, (see figure 3). If using 9" plece of
- æ Into the roller race. (Figure 4) bracket, while pushing the tubing bracket assembly using the extra Continue to rotate the roller
- cover and screws. port (Figure 5) and replace the Insert the tubing into the outer

9

o

FIG, 5

WARNING

should not be used that shows signs of swelling, embrittlement or other deterioration tubing in accordance with tubing manufacturer's specifications. Tubing compatibility of our tubing in specific applications. ALWAYS pretest 'Anko Products assumes no responsibility or liability for chemical

minute.

FUSE INSTALLATION

(See page 8 for fuse ordering information.)

- Disconnect power to pump.
- On the back of the case find your outlet receptacle.
- Pull the power cord out.
- Slide the drawer below the receptacle out toward you.
- Remove old fuse and replace with new fuse
- Push drawer in until it locks in place.

MOTOR BRUSH REPLACEMENT

(See page 8 for brush ordering Information.)

- Disconnect power to pump.
- Remove case cover by removing 8 screws
- With a small flat head screw driver remove the brush caps on
- 4 Remove old brush and replace with new brush. (Slide in both sides of the DC motor.
- Push metal plate on the end of the brush Inside and hold it horizontally)
- ¢ Replace case cover. while replacing brush cap.

цч





PROCEDURE B



	1) 2) 3)
Illustration of the pump assembly.	
I - Pump Housing	
2 - Tube 3 - Washer	
4 - Roller Bracket Assembly	× ۲
5 - Pump Cover w/bearing	
6 - Thumb Screws	
Replacement Parts List	
Call Customer Service at 800-446-2656 to order. Please remember to Include the complete model number when you place your order	
for replacement parts. Unit Number	
Black Roller Bracket Assembly RB-1212-01-00 Red Roller Bracket Assembly RB-1212-03-00	
Fuses (5/pack) FU-1701-02-01	

Includes housing, cover w/bearing, four thumb screws, and washer. Tube Kit	
h of the foliowing; t/16"tD(in a slee	
thermoplastic elastomer tubing. (See chart on page 4 for tubing and roller compatibility.)	
(Copyright 997) 22-2504-00-00	

For Roller Replacement

To remove the roller bracket assembly from the pump, use a

- flat head screwdriver and pry open both sides of the springs to the edge of the bracket.
- Pull the roller bracket assembly off the shaft holding on to the
- roller area of the bracket. Holding the top and bottom of the bracket, slide the spring off to the side and lay the assembly on a flat surface. Try not to let It fall apart as you will need to put it together the same way it

ls now.

- Remove the top bracket and the rollers.
- Place the new rollers on the plus and replace the top bracket. If a roller pln comes out of it's recess, replace it at this time.
- up with the flat on the bottom bracket. Be sure that the flat in the inner hole of the top bracket lines
- 5 Slide the spring fastener back over the bracket. Do not snap
- 9 Matching the roller bracket flat to the output shaft flat, slide the spring together. the roller bracket assembly down until it stops without using
- ઝ Snap the spring together: force.



00-00-1005-01 (159 1-101)(1-00