



ECON T PUMP SERIES

INSTALLATION AND MAINTENANCE MANUAL

PERISTALTIC METERING PUMPS SINCE 1957

⚠ WARNING

**TO BE INSTALLED BY PROPERLY TRAINED
PROFESSIONAL INSTALLER ONLY. READ
MANUAL & LABELS FOR ALL SAFETY
INFORMATION & INSTRUCTIONS.**

TABLE OF CONTENTS

Warranty and Service Policy	3
Safety Information	4-6, 9, 12, 14-15, 17-21, 23-26
Materials of Construction	7
Accessory Checklist	8
Outputs	9
Operation Description	10-11
Programming	12-13
Installation	14-20
Troubleshooting	21-23
Tube Replacement	24-27
Exploded View and Parts	28-29
For Your Records	30
Mounting Template	31

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WARRANTY AND CUSTOMER SERVICE

LIMITED WARRANTY

Stenner Pump Company will for a period of one (1) year from the date of purchase (proof of purchase required) repair or replace – at our option – all defective parts. Stenner is not responsible for any removal or installation costs. Pump tube assemblies and rubber components are considered perishable and are not covered in this warranty. Pump tube will be replaced each time a pump is in for service, unless otherwise specified. The cost of the pump tube replacement will be the responsibility of the customer. Stenner will incur shipping costs for warranty products shipped from our factory in Jacksonville, Florida. Any tampering with major components, chemical damage, faulty wiring, weather conditions, water damage, power surges, or products not used with reasonable care and maintained in accordance with the instructions will void the warranty. Stenner limits its liability solely to the cost of the original product. We make no other warranty expressed or implied.

NOTE: This unit incorporates a DC motor, which has a limited life based on brush wear and is considered perishable - motors with worn out brushes are not considered defective and are not covered under warranty. Continuous operation, particularly at higher speeds, produces quicker brush wear and results in a shorter motor life.

RETURNS

Stenner offers a 30-day return policy on factory direct purchases. Except as otherwise provided, no merchandise will be accepted for return after 30 days from purchase. To return merchandise at any time, call Stenner at 800.683.2378 for a Return Merchandise Authorization (RMA) number. A 15% re-stocking fee will be applied. Include a copy of your invoice or packing slip with your return.

DAMAGED OR LOST SHIPMENTS

Check your order immediately upon arrival. All damage must be noted on the delivery receipt. Call Stenner Customer Service at 800.683.2378 for all shortages and damages within seven (7) days of receipt.

SERVICE & REPAIRS

Before returning a pump for warranty or repair, remove chemical from pump tube by running water through the tube, and then run the pump dry. Following expiration of the warranty period, Stenner Pump Company will clean and overhaul any Stenner metering pump for a minimum labor charge plus necessary replacement parts and shipping. All metering pumps received for overhaul will be restored to their original condition. The customer will be charged for missing parts unless specific instructions are given. To return merchandise for repair, call Stenner at 800.683.2378 or 904.641.1666 for a Return Merchandise Authorization (RMA) number.

DISCLAIMER

The information contained in this manual is not intended for specific application purposes. Stenner Pump Company reserves the right to make changes to prices, products, and specifications at any time without prior notice.

IMPORTANT SAFETY INSTRUCTIONS

When installing and using this electrical equipment, basic safety precautions should always be followed, including the following:

1. READ AND FOLLOW ALL INSTRUCTIONS.

2. WARNING - To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.

3. WARNING - Risk of Electric Shock. Connect only to a branch circuit protected by a ground-fault circuit interrupter (GFCI). Contact a qualified electrician if you cannot verify that the receptacle is protected by a GFCI.

4. WARNING - To reduce the risk of electric shock, replace damaged cord immediately.

5. SAVE THESE INSTRUCTIONS.

SAFETY INFORMATION



⚠ WARNING Warns about hazards that **CAN** cause death, serious personal injury, or property damage if ignored.



ELECTRIC SHOCK HAZARD



⚠ WARNING ELECTRIC SHOCK HAZARD:

The pump must only be used with the Class II power supply that is supplied with the pump.



⚠ AVERTISSEMENT RISQUE DE CHOC ELECTRIQUE:

La pompe ne peut être utilisée qu'avec le bloc d'alimentation de type Classe II originalement fourni avec celle-ci.



DO NOT alter the power cord or power supply.



DO NOT use receptacle adapters.



DO NOT use pump with a damaged or altered power cord or power supply. Contact the factory or an authorized service facility for repair.



⚠ WARNING HAZARDOUS VOLTAGE:

DISCONNECT power cord before removing motor cover for service. **Electrical service by trained personnel only.**



⚠ WARNING EXPLOSION HAZARD:

This pump is not explosion proof. **DO NOT** install or operate in an explosive environment.



⚠ WARNING RISK OF EXPOSURE:

Potential for burns, fire, explosion, personal injury, or property damage. To reduce risk of exposure, the use of proper personal protective equipment is mandatory.



⚠ WARNING RISK OF FIRE HAZARD:

DO NOT install or operate on any flammable surface.



⚠ WARNING RISK OF CHEMICAL OVERDOSE:

To reduce risk, follow proper installation methods and recommendations. Check your local codes for additional guidelines.



⚠ WARNING This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction to concerning use of the appliance by a person responsible for their safety.

SAFETY INFORMATION continued



CAUTION Warns about hazards that **WILL** or **CAN** cause minor personal injury or property damage if ignored.



CAUTION PLUMBING:

Metering pump installation must always adhere to your local plumbing codes and requirements. Be sure installation does not constitute a cross connection. Check local plumbing codes for guidelines.



NOTICE: Indicates special instructions or general mandatory action.



This metering pump is portable and designed to be removable from the plumbing system without damage to the connections.



Before installing or servicing the pump, read the pump manual for all safety information and complete instructions. The pump is designed for installation and service by properly trained personnel.



Installation of product must adhere to all regulatory and compliance codes applicable to the area.



This metering pump and its components have been tested for use with the following chemicals: Sodium Hypochlorite (10-15%), Muriatic Acid (20-22 Baume, 31.5% HCl), and Soda Ash.



Cette pompe de dosage et ses composants ont été testés pour leur compatibilité avec les produits chimiques suivants : hypochlorite de sodium (10 à 15 %), acide chlorhydrique (20 à 22 % Baume, 31,5 % HCl), et carbonate de sodium.



This is the safety alert symbol. When displayed in this manual or on the equipment, look for one of the following signal words alerting you to the potential for personal injury or property damage.



Acceptable for indoor use only.



Pour utilisation à l'intérieur uniquement.



Electrical installation should adhere to all national and local codes. Consult a licensed professional for assistance with proper electrical installation.



Removing power from recirculation pump must also remove power from pump.



The use of an auxiliary safety device (not supplied), such as a flow switch or sensor, is recommended to prevent feed pump operation in the event of a recirculation pump failure or if flow is not sensed.



Point of injection should be beyond all pumps, filters, and heaters.

MATERIALS OF CONSTRUCTION

All Housings

Polycarbonate

Peristaltic Tube & Check Valve Duckbill

Santoprene*, FDA approved

Suction/Discharge Tubing & Ferrules

Polyethylene, FDA approved

Weighted Suction Line Strainer

Polypropylene or Type 1 Rigid PVC body with Type 1 Rigid PVC cap, NSF listed; ceramic weight

Tube Fittings

Polypropylene, NSF listed

Check Valve Fittings

Type 1 Rigid PVC, NSF listed

Connecting Nuts

Type 1 Rigid PVC or Polypropylene

All Fasteners

Stainless Steel

* Santoprene® is a registered trademark of Exxon Mobil Corporation.

ACCESSORY CHECKLIST

Contents

- 3 Connecting Nuts 1/4"
- 3 Ferrules 1/4" or 6 mm *Europe*
- 1 Injection Fitting or Injection Check Valve
- 1 Weighted Suction Line Strainer 1/4"
- 1 20' Roll of Suction/Discharge Tubing
1/4" White or UV Black OR 6 mm White *Europe*
- 1 Additional Pump Tube
- 1 Installation Manual

OUTPUTS

GALLONS & OUNCES

Item Number Prefix	Pump Tube	Roller Assembly	Gallons per Day	Gallons per Hour	Ounces per Hour	Ounces per Minute	Pressure psi
E10T1F*	F	White	0.60	0.02	3.00	0.05	80
E10T2F*	F	White	1.30	0.05	6.60	0.11	80
E20T4F*	F	White	3.40	0.14	18.00	0.30	80
E20T4G*	G	Black	12.30	0.51	65.40	1.09	80
E20T4H*	H	Black	21.70	0.90	115.20	1.92	80
E10T1A	A	White	2.50	0.10	13.20	0.22	25
E10T2A	A	White	5.00	0.21	26.40	0.44	25
E10T2B	B	White	8.50	0.35	45.60	0.76	25
E10T2C	C	White	15.00	0.63	79.80	1.33	25
Approximate Maximum Outputs @ 50/60Hz							

LITERS & MILLILITERS

Item Number Prefix	Pump Tube	Roller Assembly	Liters per Day	Liters per Hour	Milliliters per Hour	Milliliters per Minute	Pressure bar
E10T1F*	F	White	2.20	0.09	90.00	1.50	5.5
E10T2F*	F	White	4.80	0.20	198.00	3.30	5.5
E20T4F*	F	White	13.10	0.54	544.80	9.08	5.5
E20T4G*	G	Black	46.50	1.94	1937.40	32.29	5.5
E20T4H*	H	Black	82.00	3.41	3416.40	56.94	5.5
E10T1A	A	White	9.50	0.39	396.00	6.60	1.7
E10T2A	A	White	18.90	0.79	786.00	13.10	1.7
E10T2B	B	White	32.20	1.34	1338.00	22.30	1.7
E10T2C	C	White	56.80	2.37	2364.00	39.40	1.7
Approximate Maximum Outputs @ 50/60Hz							

* Injection check valve is included with pump rated 26-80 psi (1.8-5.5 bar).



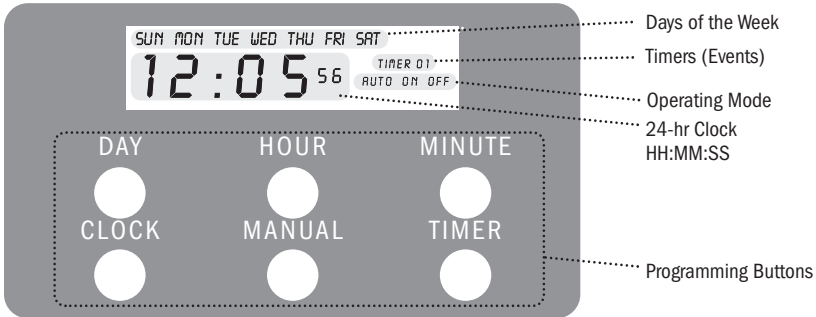
NOTICE: The information within this chart is solely intended for use as a guide. The output data is an approximation based on pumping water under a controlled testing environment. Many variables can affect the output of the pump. Stenner Pump Company recommends that all metering pumps undergo field calibration by means of analytical testing to confirm their outputs.

OPERATION DESCRIPTION

CONTROL PANEL

The pump features a control panel with an LCD display; when operating it will display the current day, time, and the pump mode of operation; either AUTO, ON or OFF.

The display has indicators that represent the days of the week, operating mode and the event (timer). There are 24 separate ON and OFF events that can be programmed within a 7 day period. The timer can be set in increments by hour and minute.



Control Panel

Following are the buttons for programming the pump.

- | | |
|--------|--|
| DAY | Adjust day |
| HOUR | Adjust hour |
| MINUTE | Adjust minute |
| CLOCK | 24-hr format, use with the DAY, HOUR & MINUTE button to set the current day and time |
| MANUAL | Cycles pump between AUTO, ON & OFF |
| TIMER | Use with DAY, HOUR, MINUTE buttons to program the on and off events |

Programming Notes

When a timer has been initiated, the display will show the timer number (TIMER 01, TIMER 02, TIMER 03, etc.) and ON (blinking) to show that the pump is running a timer in AUTO mode.

Each separate ON and OFF event can run from a minimum of 1 minute to a maximum of 23 hours and 59 minutes within each programmed day.

OPERATION DESCRIPTION continued

CLOCK

The clock uses a 24-hour format for programming and can be set when the pump is not plugged in.

24-hr	12-hr	24-hr	12-hr
00:00	12 midnight	12:00	Noon
01:00	1 a.m.	13:00	1 p.m.
02:00	2 a.m.	14:00	2 p.m.
03:00	3 a.m.	15:00	3 p.m.
04:00	4 a.m.	16:00	4 p.m.
05:00	5 a.m.	17:00	5 p.m.
06:00	6 a.m.	18:00	6 p.m.
07:00	7 a.m.	19:00	7 p.m.
08:00	8 a.m.	20:00	8 p.m.
09:00	9 a.m.	21:00	9 p.m.
10:00	10 a.m.	22:00	10 p.m.
11:00	11 a.m.	23:00	11 p.m.


BACKUP BATTERY

The pump uses a single CR 1220 3V lithium battery that maintains the internal time and programmed event settings; it will not power the display or run the pump if AC power is lost. The battery should be changed annually. To avoid losing the timer programming; a new battery must be installed within 5 seconds of removing the old battery.

PROGRAMMING

FIRST TIME USE

 **NOTICE:** Indicates special instructions or general mandatory action.

 Before programming for the first time, the control panel must be reset to the default settings. Press and hold the **CLOCK** and **TIMER** buttons simultaneously for 5 seconds. The clock will display 00:00 and the timers will be disabled.

1. SET THE CLOCK

Press and hold down the **CLOCK** button, then press the **DAY**, **HOUR**, and **MINUTE** buttons to adjust to the current day and time.

When the current day and time is set, release the **CLOCK** button. The clock is now set.

2. PROGRAM THE FIRST TIMER: TIMER 01

a. Set the Time and the Day for the Pump to Start

Press the **TIMER** button once. The display will show **TIMER 01 ON**.

Press the **DAY** button to select the day or days that the timer will run. Press the **DAY** button repeatedly and the following choices will be displayed:

SUN = Sunday only

MON = Monday only

TUE = Tuesday only

WED = Wednesday only

THU = Thursday only

FRI = Friday only

SAT = Saturday only

SUN MON TUE WED THU FRI SAT = All days

MON TUE WED THU FRI = Monday through Friday

SUN SAT = Sunday and Saturday

MON WED FRI = Monday, Wednesday and Friday

TUE THU = Tuesday and Thursday

Press the **HOUR** and **MINUTE** buttons to set the **ON** time for the timer.

NOTE: Individual timers can be disabled by setting the on time hour and minutes to “- - : - -”.

b. Set the Time for the Pump to Stop

Press the **TIMER** button. The display will now show **TIMER 01 OFF**.

NOTE: The days selected for the **ON** time will be shown and cannot be changed.

Press the **HOUR** and **MINUTE** buttons to set the **OFF** time for the timer.

PROGRAMMING continued

3. SET ADDITIONAL TIMERS: TIMER 02 THROUGH 24, AS NEEDED

Press the **TIMER** button and repeat the above steps for each timer.

When finished setting the desired timers, press the **CLOCK** button to return to the operating display.

NOTE: DO NOT overlap timer programs. If timers are overlapped, the first timer to activate will run until the first OFF time of any overlapped timers is reached.

4. REVIEW PROGRAMS

Press the **TIMER** button repeatedly to view the settings for all 24 ON and OFF events.

Press the **CLOCK** button at any time to return to the operating display. The display will show the current day, time, and the pump mode of operation; either **AUTO**, **ON** or **OFF**.

5. OPERATING MODE

Auto

Press the **MANUAL** button to set pump to **AUTO**. The **AUTO** mode enables the timers to run at the programmed times and the display will show the last timer to run.

NOTE: When in **AUTO** mode, the display will show the last timer to run. If you enter into the timer programming menu and then come back out, it will clear the indicator of the last timer that ran and the timer indicator will be blank until a timer starts to run.

Manual

Manual mode is for priming only. If left in the manual mode, the pump will stop at midnight (00:00) and the operating mode will have to be manually set again.

To prime the pump, press the **MANUAL** button to set the pump to **ON**. When pump is set to **ON**, it will run continuously and bypass any programmed timers. To stop the pump from running in **MANUAL** or from running the programmed timers, press the **MANUAL** button to set the pump to **OFF**. The pump will remain off until the operating mode is changed to **ON** or **AUTO**.

INSTALLATION

ADDITIONAL SAFETY INSTRUCTIONS



NOTICE: Indicates special instructions or general mandatory action.



Read all safety hazards before installing or servicing the pump. The pump is designed for installation and service by properly trained personnel.



Use all required personal protective equipment when working on or near a metering pump.



Install the pump so that it is in compliance with all national and local plumbing and electrical codes.



Use the proper product to treat potable water systems, use only additives listed or approved for use.








Inspect tube frequently for leakage, deterioration, or wear. Schedule a regular pump tube maintenance change to prevent damage to pump and/or spillage.



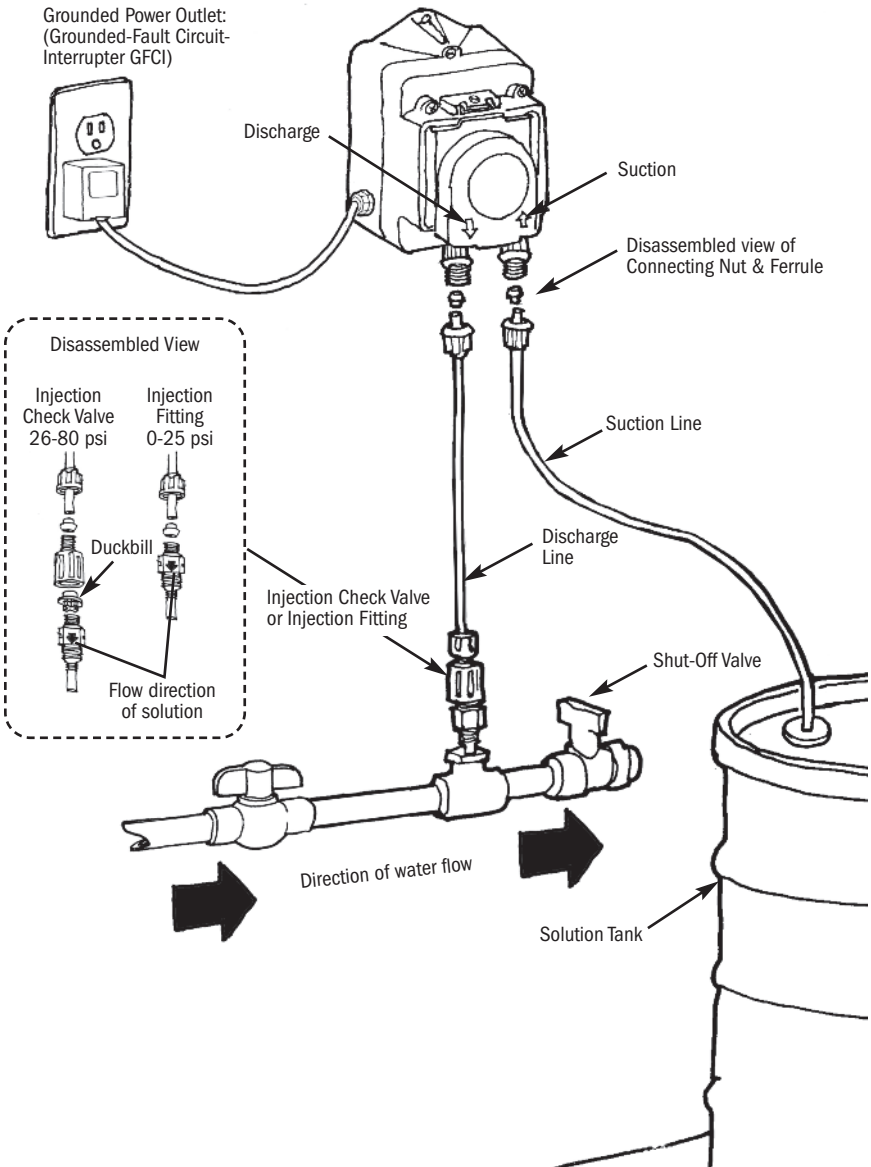
Pump is not recommended for installation in areas where leakage can cause personal injury or property damage.

INSTALLATION continued

MOUNT PUMP

-  **Select a dry location (to avoid water intrusion and pump damage) above the solution tank.**
 -  **To prevent pump damage in the event of a pump tube leak, never mount the pump vertically with the pump head up.**
 -  **DO NOT mount pump directly over an open solution tank. Keep tank covered.**
 -  **Avoid flooded suction or pump mounted lower than the solution container. Draw solution from the top of the tank. Pump can run dry without damage. If pump is installed with a flooded suction, a shut-off valve or other device must be provided to stop flow to pump during service.**
 -  **To prevent motor damage, verify with a volt meter that the receptacle voltage corresponds with the pump voltage.**
1. Plug the power supply into the receptacle.
 2. Press the **MANUAL** button to set the pump to ON and verify the rotation of the roller assembly. Disconnect the power.

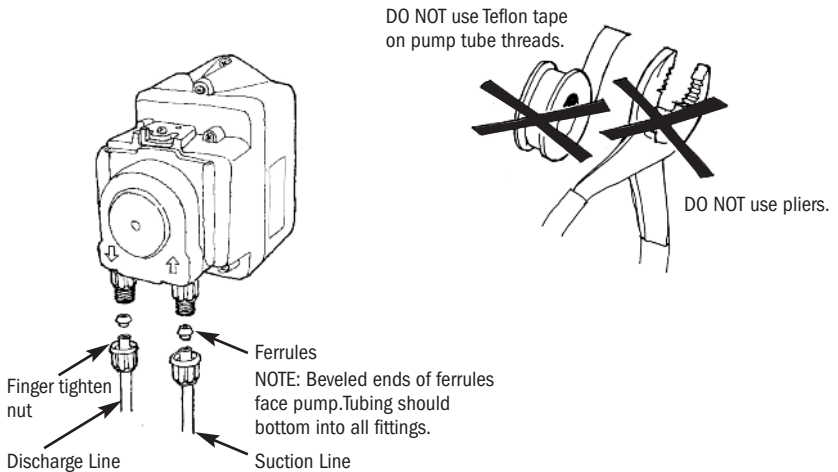
INSTALLATION DIAGRAM



INSTALLATION continued

INSTALL SUCTION LINE TO PUMP HEAD

1. Uncoil the suction/discharge line. Use outside of solution tank as a guide to cut proper length of suction line ensuring it will be 2-3" above the bottom of solution tank.
- ❗ **Allow sufficient slack to avoid kinks and stress cracks. Always make a clean square cut to assure that the suction line is burr free. Normal maintenance requires trimming.**
 - ❗ **Suction lines that extend to the bottom of the tank can result in debris pickup leading to clogged injectors and possible tube failure.**
2. Make connections by sliding the line(s) through connecting nut and ferrule and finger tighten to the corresponding tube fittings.
 3. Finger tighten nut to the threaded tube fitting while holding the tube fitting.
- ❗ **Over tightening the ferrule and nut with a wrench may result in damaged fittings, crushed ferrules, and air pick up.**
 - ❗ **DO NOT use thread sealant tape on pump tube connections or tools to tighten connections.**



INSTALLATION continued

INSTALL SUCTION WEIGHT TO SUCTION LINE

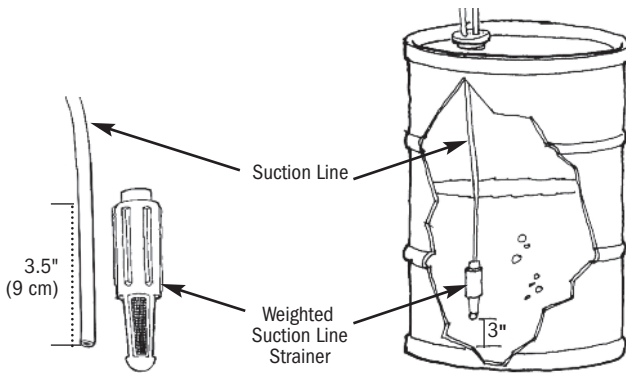
1. Drill a hole into the bung cap or solution tank lid. Slide the tubing through and secure the weighted strainer to the line.
2. To attach the strainer, push approximately 3.5" of suction line through the cap on the strainer body. Pull tubing to make sure it is secure.
3. Suspend slightly above tank bottom to reduce the chance of sediment pickup.



DO NOT mix additives in the solution container. Follow recommended mixing procedures according to the manufacturer.






DO NOT operate pump unless additive is completely in solution. Turn pump off when replenishing solution.

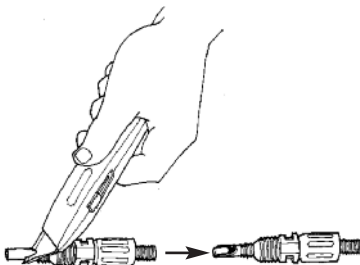
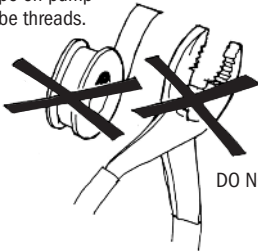


INSTALLATION continued

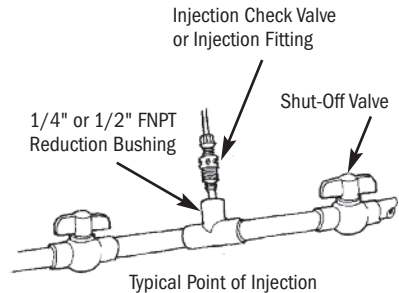
INSTALL DISCHARGE LINE TO PUMP HEAD AND INJECTION POINT

1. Make a secure finger tight connection on the discharge fitting of the pump head as instructed in Install Suction Line instructions.
 -  **DO NOT use thread sealant tape on pump tube connections or tools to tighten connections.**
 -  **⚠ WARNING HAZARDOUS PRESSURE: Shut off water or circulation system and bleed off any system pressure.**
 -  **Locate a point of injection beyond all pumps and filters or as determined by the application.**
2. A 1/4" or 1/2" Female NPT (FNPT) connection is required for installing the injection fitting. If there is no FNPT fitting available, provide one by either tapping the pipe or installing FNPT pipe tee fitting.
 3. Wrap the Male NPT (MNPT) end of injection fitting with 2 or 3 turns of threading tape. If necessary, trim the injection fitting quill as required to inject product directly into flow of water.

DO NOT use Teflon tape on pump tube threads.



Trim injection fitting end



INSTALLATION continued

4. Hand tighten the injection fitting into the FNPT fitting.
 - a. Install connecting nut and ferrule to the pump discharge tubing. Insert discharge tubing into injection fitting until it reaches base of fitting.
 - b. Finger tighten connecting nut to fitting.
5. Turn the pump on and re-pressurize the system. Prime the pump and observe the flow. Check all connections for leaks. Once primed, place the pump in the desired operating mode.
6. After suitable amount of dosing time, perform tests for desired readings (e.g., pH or ppm). If necessary, fine tune dosing levels by adjusting the run time per event.



The injection point and fitting require periodic maintenance to clean any deposits or buildup. To allow quick access to the point of injection, Stenner recommends the installation of shut-off valves.

TROUBLESHOOTING – DRIVE ASSEMBLY



WARNING

HAZARDOUS VOLTAGE:

DISCONNECT power before service. **Electrical service should be performed by trained personnel only.**

PROBLEM	POSSIBLE CAUSE	SOLUTION
Noise is excessively loud	Lubrication is insufficient Gears or gear posts are worn	Grease gears and gear posts Inspect/replace gears and gear posts
Drive assembly does not work	Electrical supply is faulty DC motor is damaged Power cord is damaged	Check supply voltage circuit Replace drive assembly Replace drive assembly
Drive assembly runs; output shaft does not	Worn or damaged gears	Replace gears as needed
Phenolic gear is stripping	Gear posts worn Rusted helical gear Insufficient lubrication	Replace gear posts and phenolic gear Buff off helical gear and replace phenolic gear Replace phenolic gear and lubricate with AquaShield®
Output shaft does not turn	Worn or damaged roller assembly Worn or damaged gears Damaged circuit board	Replace roller assembly Replace gears as needed and cycle power to reset Replace drive assembly

TROUBLESHOOTING – PUMP HEAD

PROBLEM	POSSIBLE CAUSE	SOLUTION
Components are cracking	Incompatibility with fluid	Check compatibility
Visible fluid in pump head	Pump tube rupture/leak	Replace pump tube and ferrules
No pump output; pump head rotates	Depleted solution tank Pump suction line weight is above solution Suction line leak Ferrules installed incorrectly or damaged Injection point is clogged Clogged suction/discharge tubing Life of pump tube is exhausted Suction tubing is flush with the nose of the weighted strainer Pump cover not secured properly	Replenish solution Maintain suction line 2-3" off bottom of tank Inspect or replace suction line Replace compression ferrules Inspect and clean injection point Clean and/or replace as necessary Replace pump tube Pull suction tubing approximately 1" from bottom of strainer; cut bottom of suction tubing at an angle Ensure that pump cover is properly latched
Low pump output; pump head rotates	Pump tube is worn Rollers worn or broken Injection point is restricted Incorrect tube size High system back pressure Run time is too short Pump cover not secured properly	Replace pump tube Install new roller assembly Inspect and clean injection point Replace tube with correct size Confirm system pressure does not exceed the pump tube pressure rating Increase run time Ensure that pump cover is properly latched
No pump output; pump head doesn't rotate	Roller assembly is stripped Faulty board Drive assembly problem Operation mode set incorrectly Timers disabled Pump is set to off	Replace roller assembly Replace drive assembly Refer to Troubleshooting – Drive Assembly Adjust mode of operation Set timers Place pump in AUTO to run programmed timers
Pump output is high	Incorrect tube size Roller assembly is broken Run time is too long	Replace tube with correct size Replace roller assembly Reduce run time

TROUBLESHOOTING – PUMP TUBE







! **NOTICE:** A leaking pump tube damages the metering pump. Inspect pump frequently for leakage and wear. Refer to Tube Replacement section for additional safety precautions and instructions.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Tube leaking	<ul style="list-style-type: none"> Pump tube ruptured Calcium or mineral deposits Excessive back pressure Tube is twisted Tube not centered 	<ul style="list-style-type: none"> Replace pump tube and ferrules Clean injection fitting, replace pump tube and ferrules Ensure system pressure does not exceed pump's pressure rating Replace pump tube and ferrules Replace pump tube and ferrules
Tube life is shortened	<ul style="list-style-type: none"> Incompatibility with fluid Mineral deposits at injection point Sediment blockage at injection fitting Seized rollers caused abrasion on tube Exposure to heat or sun 	<ul style="list-style-type: none"> Check compatibility Remove deposits, replace pump tube and ferrules Maintain suction line 2-3" above bottom of tank Clean roller assembly or replace Do not store tubes in high temperatures or in direct sunlight
Tube connection is leaking	<ul style="list-style-type: none"> Missing ferrule on suction or discharge line Crushed ferrule Ferrule in wrong orientation 	<ul style="list-style-type: none"> Replace ferrule Replace ferrule Reverse orientation of ferrule

TUBE REPLACEMENT – SAFETY INFORMATION




WARNING RISK OF EXPOSURE

-  To reduce risk of exposure, check the pump tube regularly for leakage. At the first sign of leakage, replace the pump tube.
-  To reduce risk of exposure, the use of proper personal protective equipment is mandatory when working on or near metering pumps.
-  To reduce risk of exposure, and also prior to service, shipping, or storage, pump generous amounts of water or a compatible buffer solution to rinse pump.
-  Consult MSDS sheet for additional information and precautions for the additive in use.
-  Personnel should be skilled and trained in the proper safety and handling of the additive in use.
-  Inspect tube frequently for leakage, deterioration, or wear. Schedule a regular pump tube maintenance change to prevent damage to pump and/or spillage.





CAUTION PINCH POINT HAZARD

-  Use extreme caution when replacing pump tube. Be careful of your fingers and **DO NOT** place fingers near rollers.








WARNING HAZARDOUS PRESSURE EXPOSURE

-  Use caution and bleed off all resident system pressure prior to attempting service or installation.
-  Use caution when disconnecting discharge tubing from pump. Discharge may be under pressure. Tubing may contain fluid being metered.



NOTICE: Indicates special instructions or general mandatory action.

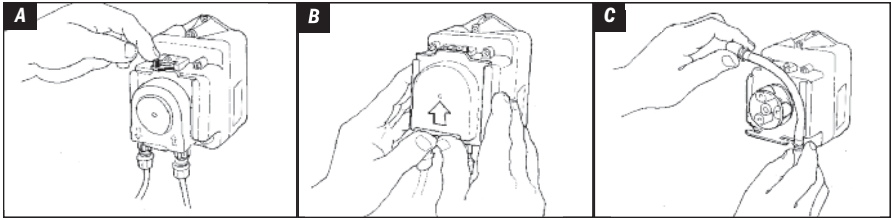
-  **DO NOT** apply grease, oil, or lubricants to the pump tube or housing.
-  Prior to pump tube replacement, inspect the entire pump head for cracks or damaged components. Ensure rollers turn freely.
-  Rinse off fluid residual and clean all fluid and debris from pump head components prior to tube replacement.
-  **DO NOT** pull excessively on pump tube. Avoid kinks or damage during tube installation.
-  Inspect the suction/discharge tubing, injection point (into pipe), and injection fitting for blockages after any tube rupture. Clear or replace as required.

TUBE REPLACEMENT

PREPARATION

1. Follow all safety precautions prior to tube replacement.
2. Prior to service, pump water or a compatible buffer solution through the pump and suction and discharge lines to remove fluid and avoid contact.
3. Unplug the pump.
4. Disconnect the suction and discharge connections from pump head.

TUBE REPLACEMENT continued

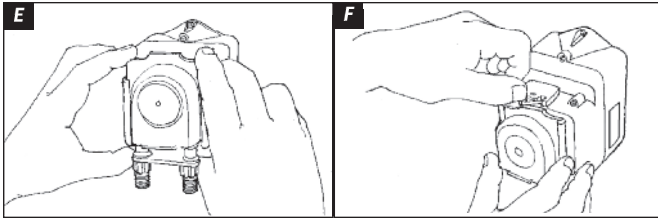
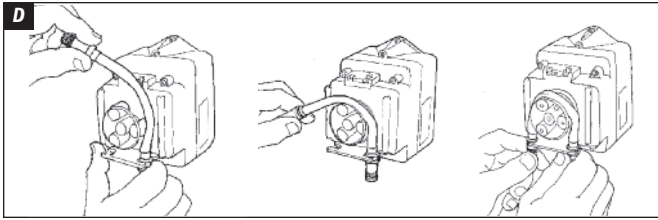


REMOVE TUBE

! Always unplug pump before doing maintenance work.

1. Unplug the pump.
2. Remove the Phillips head locking screw on the latch (CE models only). Slide the vertical tab 180 degrees from left to right to unlock the cover latch. *Illustration A*
3. To slide cover off, push up on the raised edge. *Illustration B*
4. Release the fittings from the slots to remove the tube. *Illustration C*
5. Remove roller assembly.
6. Use non-citrus all-purpose cleaner to clean residue from pump head housing, roller, and cover.
7. Check cover for cracks. Replace if cracked.
8. Ensure rollers spin freely.
9. Replace roller assembly if: seized, excessive side play from bore wear, or if rollers are visibly worn.
10. Re-install roller assembly.

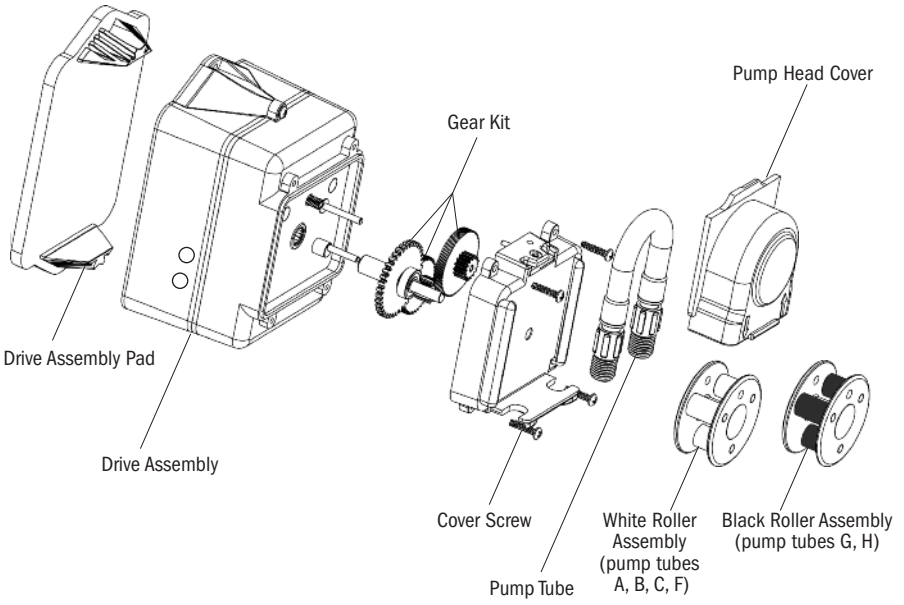
TUBE REPLACEMENT continued



INSTALL NEW TUBE

1. To install new tube, insert one fitting into slot, pull tube around the center of the roller assembly and insert second fitting into the other slot. *Illustration D*
2. Align tube housing cover with track and slide over tube until fully closed. *Illustration E*
3. Plug the pump in.
4. Run the pump for one minute to relax the tube. Press the **MANUAL** button to set the pump to ON. When pump is set to ON, it will run continuously and bypass any programmed timers. To stop the pump from running in **MANUAL** or from running the programmed timers, press the **MANUAL** button to set the pump to OFF. The pump will remain off until the operating mode is changed to ON or AUTO.
5. To lock cover in place, press down on the cover while turning the vertical tab 180 degrees from right to left. Install the Phillips head locking screw (CE models only). *Illustration F*
6. Run the pump for one minute to verify operation.
7. Reconnect the suction and discharge lines.
8. Prime the pump and then set it to the desired operating mode.

EXPLODED VIEW



PARTS

DESCRIPTION	PART NUMBER	UM
DC Motor, brushed with leads <i>(not shown)</i>		
E10 Series only	EC300	EA
E20 Series only	EC307	EA
Gear Kit <i>includes spacers, screws & Aquashield®</i>		
E10 Series only	EC310	KIT
E20 Series only	EC320	KIT
Drive Assembly Pad	EC302	EA
White Roller Assembly (pump tubes A,B,C, F only)	EC350	EA
Black Roller Assembly (pump tubes G,H only)	EC351	EA
Pump Tube, ferrules 1/4" <i>Select A, B, C, F, G or H for __</i>	EC30__-2	2-PK
Pump Head Cover	EC355	EA
Mounting Kit <i>for Stenner tank or wall mount</i>	EC303	KIT
Stand <i>for horizontal display or wall mount</i>	EC304	EA

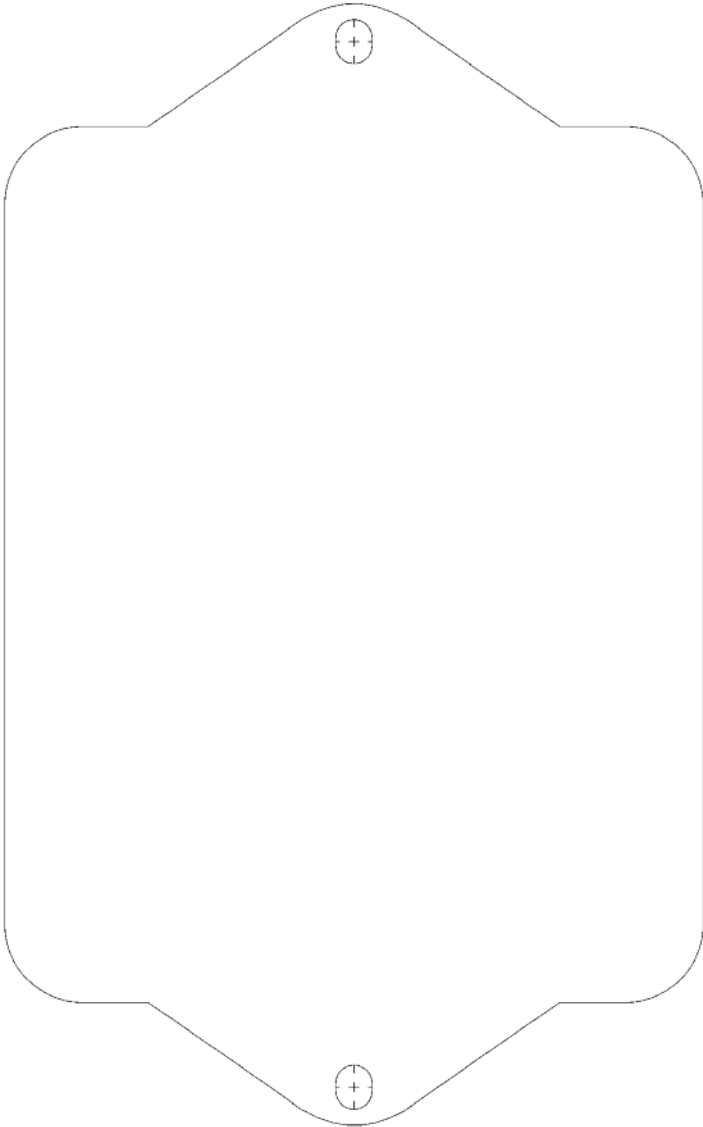
FOR YOUR RECORDS

Model

Serial Number

Date of Installation

MOUNTING TEMPLATE






STENNER PUMP COMPANY

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Fri. 7:00 am–5:30 pm

 Made in the USA

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