INSTRUCTIONS-PARTS LIST

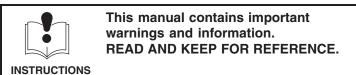


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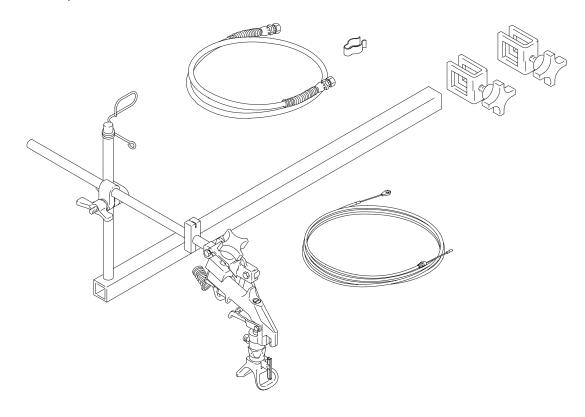
For the LineLazer™ Gasoline Powered Airless Line stripers

Second Gun and Hose Kit

3300 psi (22.7 MPa, 227 bar) Maximum Working Pressure

Model 241284

Includes Size 319 LineLazer Tip and Size 517 SwitchTip™



8807A

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Symbols

Warning Symbol

A WARNING

This symbol alerts you to the possibility of serious injury or death if you do not follow the instructions.

Caution Symbol



This symbol alerts you to the possibility of damage to or destruction of equipment if you do not follow the corresponding instructions.

Pressure Relief Procedure

A WARNING



INJECTION HAZARD

Fluid under high pressure can be injected through the skin and cause serious injury. To reduce the risk of an

injury from injection, splashing fluid, or moving parts, follow the **Pressure Relief Procedure** whenever you:

- are instructed to relieve the pressure,
- stop spraying/dispensing,
- check or service any of the system equipment,
- or install or clean the spray tip/nozzle.
- 1. Engage the gun safety latch.
- Turn the ON/OFF switch to OFF.

- 3. Flip the pressure control switch to OFF.
- 4. Disengage the gun safety latch. Hold a metal part of the gun firmly to the side of a grounded metal pail, and trigger the gun to relieve pressure.
- 5. Engage the gun safety latch.
- 6. Open the pressure drain valve, having a container ready to catch the drainage. Leave the valve open until you are ready to spray again.
- 7. Disconnect the spark plug cable.

If you suspect that the spray tip or hose is completely clogged, or that pressure has not been fully relieved after following the steps above, very slowly loosen the hose coupling or fitting to relieve pressure gradually, then loosen completely. Now clear the tip or hose.

Notes



How to Disengage and Engage the Trigger Cable

A WARNING

The gun is remotely triggered with the dual gun selector on the handle bar.

To reduce the risk of an injection injury due to remotely triggering the gun by accident, always disengage the trigger cable from the block before handling the gun. See Fig. 2, Detail A. **THE GUN WILL TRIGGER BRIEFLY WHEN RELEASING THE CABLE!** Before you remove the gun from the holder, engage the gun's trigger safety latch.

A CAUTION

Keep the seat in the trigger cable block (A) and the end of the cable jacket clean at all times to be sure the trigger cable functions properly.

To disengage the cable, grasp the cable (402) behind the block (A). Pull the cable back 1/2 inch (13 mm) and then out of the block. THE GUN WILL TRIGGER BRIEFLY!

To engage the cable, slide the cable (402) into the block (A), making sure the end of the cable jacket seats firmly in the seat of the block. THE GUN WILL TRIGGER BRIEFLY!

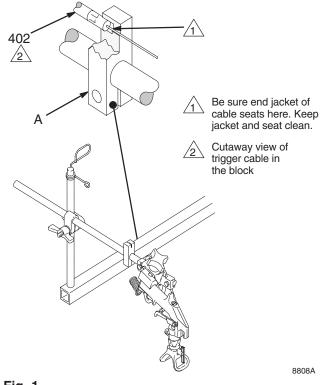


Fig.

Second Gun Kit Installation

NOTE: Fig. 2, which shows the second gun (outside gun) being mounted on the pump side of the cart, represents the installation at step 3.

NOTE: If you want to switch the gun assemblies to the other side of the unit at this time, see **To mount the guns on the engine side of the cart** on page 6 before installing the second gun kit.

- Disengage the cable (402) from the block (A) of the unit's existing gun. See Fig. 1. Engage the trigger safety.
- 2. Loosen the carriage clamps (D). Slide the carriage bar (B) off the cart.
- For mounting the second gun bar on the pump side of the cart: Slide a clamp (405) onto the carriage bar (B) as shown in Fig. 2. Slide the carriage bar through the pump-side carriage clamp (D) and into the center of the cart. Now slide another clamp (405) onto the carriage bar.

For mounting the second gun bar on the engine side of the cart: Follow Step 3, except slide the carriage bar through the engine-side carriage clamp (D) and the into the center of the cart. The knobs of the clamps (405) must face back toward the handle bars.

- 4. Slide the carriage bar (B) through the opposite carriage clamp. Tighten the carriage clamps (D).
- 5. Slide the second gun bar (404) far enough into the carriage bar that the clamp (405) engages the bar. Position the clamps (405) over the notches in the carriage bar (B) and tighten the clamps.

NOTE: For stable gun operation, the second gun bar (404) has a maximum recommended extension from the carriage bar of about 11–1/4" (286 mm).

- 6. Disconnect the trigger cable from the second gun at the screw (34). See Fig. 2, Detail B.
- 7. Unscrew the filter's second outlet cap (J). Screw the hose (403) onto the filter nipple.
- 8. Remove the guide clamp screw from the area (F).

- 9. Snap the cable bushing (H) into the fluid plate (G). Route the trigger cable (402) parallel with the main gun cable, separating the guide clamp (F) to feed the cable through it. Install and tighten the guide clamp screw (F). Route the cable through the cable guide (K) and to the second gun.
- Slide the hooked end of the cable (402) through the hole (M) in the lever plate (L). Rotate the hook and slide it back until it hooks on the plate. See Flg. 2, DETAIL A.
- 11. Reconnect the trigger cable to the second at the screw (34). Torque the screw to 15 in-lb (1.7 N•m), and then back it off 1/16 to 1/8 turn and tighten the jam nut (99) while holding the screw (34). Be sure the plate (94) moves freely.

- 12. Install the clip (401) to hold the cable onto the frame.
- Connect both trigger cables to the blocks (A). See page 4. Now adjust the cable tension. See page
- 14. Do not install the spray tip until the system is primed. See your complete LineLazer manual for the startup procedure.

HOW TO INSTALL CABLE DETAIL A 402 402 401 **CORRECTLY INSTALLED CABLE** 403 Torque to 15 in-lb (1.7 N•m) and K then back up 404 1/16 to 1/8 turn **DETAIL B** 402 99 $\sqrt{1}$ 8809A Fig. 2

Adjust Simultaneous Gun Triggering

WARNING

To risk the risk of a fluid injection injury, always disengage the trigger cable to the gun(s) before moving or adjusting the guns or gun arms. See page 4.

- 1. Align the front of the guns by adjusting the gun arms. See page 6.
- 2. Position the dial gun selector to trigger both guns. See page 8.

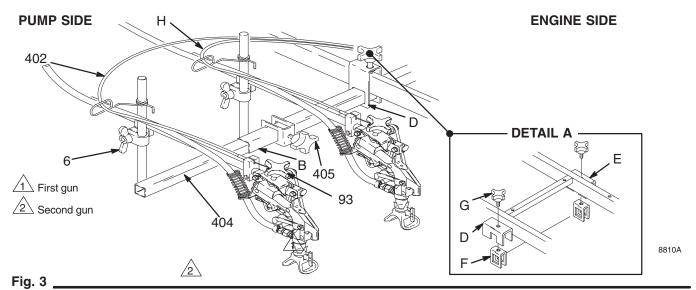
3. Start the sprayer, using water, or spray on cardboard. Trigger the guns to see if the lines begin at the same time and place.

If one gun triggers before the other gun, reduce the cable tension of the gun that triggers first. See **Trigger cable tension adjustment** on page 8.

If one line starts in front of the other, adjust the position of the guns. See page 6.

Trigger the guns to recheck the adjustments.

Positioning the Gun Arm Assembly



Whenever you move the guns

Disengage the cables (402, H) first. See page 4. Do not kink the trigger cables. Pull out more of the 50 ft. (15 m) hose, if necessary.

WARNING

Do not kink the cables, which could prevent them from properly triggering and untriggering the guns.

After moving the guns, reposition the tip guard so it is parallel to the ground and its "wings" face the front and back of the unit. Disengage the gun trigger safety latch and engage the cable (402, H).

Vertical position of the first or second gun

Loosen the post/arm clamp (6) and move the gun up or down. Tighten the clamp. Engage the trigger cable.

Horizontal position of the first gun

Method 1: Disengage the cable (H). Loosen the carriage clamps (D) and slide the carriage bar (B) left or right, so the gun will be outside the tire path. Tighten the clamps. Engage the cable (402).

Method 2: Disengage the cable (402). Loosen the arm clamp (6) and rotate the gun out to the side. Tighten the bolt. Engage the cable (402).

NOTE: Use methods 1 and 2 to obtain the maximum distance of one gun from the unit, which is helpful when spraying around obstacles.

Horizontal position of the second gun

Method 1: Disengage the cable (402). Loosen the clamps (405). Slide the second gun bar (404) horizontally as desired, but be sure both small clamps engage the second gun bar. Tighten the clamps. Engage the cable (402).

Method 2: Disengage the cable (402). Loosen the post/arm clamp (6) and rotate the gun out to the side. Tighten the bolt. Engage the cable (402).

NOTE: Use methods 1 and 2 together to obtain the maximum distance of 33–1/2" (851 mm) between the center of two guns.

To mount guns on the engine side of the cart

- 1. For both guns, disengage the cable (402, H) and engage the trigger safety lever. See Fig. 4.
- 2. Loosen the gun holder knobs (93) and remove the guns. Lay the guns out of the way.
- Remove the knobs (G) on both carriage clamps (D); The carriage bar (B) and extension clamps (F) will drop down.
- 4. Lift the front tire and rotate the carriage bar 180° under the cart and to the other side of it.
- Position the carriage bar below the carriage clamps (D). Align the holes in the top of the extension clamps (F) with the holes in the carriage bar clamps and install the knobs (G). See Fig. 3, DETAIL A.
- 6. Loosen the post/arm clamps (6) and rotate the gun arms (G) forward. Tighten the clamps.
- 7. Install the guns. See page 7. Note to which gun and position on the dual gun selector each of the cables (402, H) goes. Route the hoses and cables carefully to prevent kinking. Position the tip guards. Engage the cables (402, H).

How to Mount the Gun in the Gun Holder

A WARNING

To reduce the risk of serious injury whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** on page 2.

- 1. Relieve the pressure.
- 2. Disengage the trigger cable. See page 4. Disengage the gun's trigger safety lever (J).
- 3. Loosen the gun holder knob (93).
- 4. Position the gun so the gun trigger is resting on the remote trigger lever (H).
- 5. Be sure that the gun is mounted straight and then tighten the knob (93) firmly.
- 6. Engage the trigger cable. See page 4.

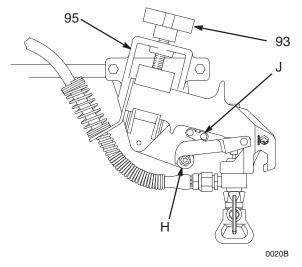
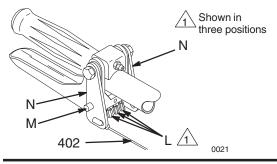


Fig. 4

Trigger Cable and Dual Gun Selector Operation



In a two-gun operation, the second gun cable (402) is black with a light red cover at each end, and trigger from the pump side (or outside) position of the dual gun selector (L).

Fig. 5

A CAUTION

Always note to which gun and position on the dual gun selector (L) each of the cables goes so that the correct gun is triggered.

<u>To trigger just one gun</u>, move the selector (L) left or right, depending on how your cables are routed to the guns, until the spool (M) protrudes through the plate. You may need to move the plate (N) a little to get the spool through it.

To trigger both guns, center the selector (L).

A CAUTION

A loose cable prevents the gun from being fully triggered, which causes premature wear of the gun needle. A tight cable prevents the gun from being fully untriggered, which results in dripping and premature tip wear. Follow the steps at right if adjustment is needed.

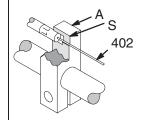
Trigger cable tension adjustment (Fig. 6)

▲ WARNING

To reduce the risk of serious injury whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** on page 2.

- 1. Relieve the pressure.
- Be sure the gun is properly mounted in the holder as instructed in Step 4 under How to Mount the Gun in the Gun Holder on page 7.
- 3. Pull the actuator lever (94) forward and hold it. Lift up on the gun trigger (T) until there is slight resistance. Visually check to see if there is about 1/32 to 1/16 in. (1–2 mm) gap between the trigger lever (H) and where the gun trigger touches the bar.
- To adjust the tension, loosen the screw in the block (P). Slide the block forward to increase the gap and backward to decrease the gap. Tighten the screw.
- 5. Recheck the gap and continue adjusting as needed.

A CAUTION



Do not allow the cable (402) to rub against the outside edges of the slot (S) in the block (A), to prevent premature wear of the cable. Rotate the block slightly to eliminate rubbing.

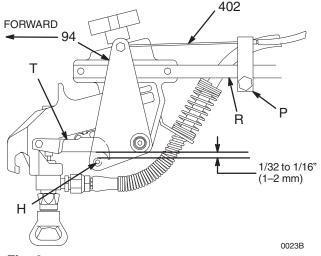
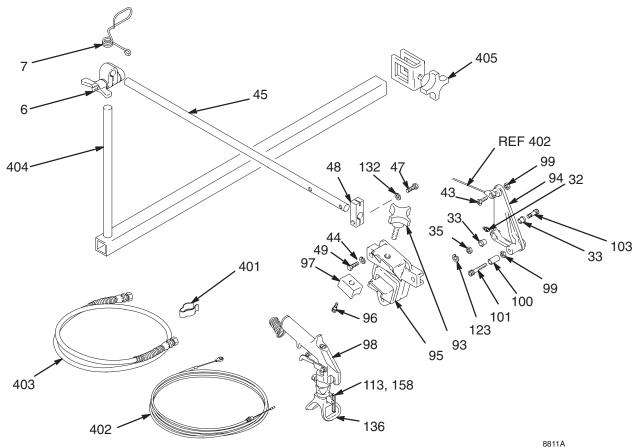


Fig. 6

Parts

Second Gun and Hose Kit Model 241284



Ref No.	Part No.	Description	Qtv.	100 Ref	108535	BEARING, sleeve	1
No. 6 7 32 33 34 35 44 45 47 48 49 93 94 95 96 97	114029 188135 100846 111016 111230 100015 100016 181734 100101 186699 100021 181818 186747 188452 108483 181795	Description CLAMP, arm support GUIDE, cable FITTING, lubrication BEARING, flanged SCREW, mach, flhd, 1/4–20 x 1" NUT, hex, 1/4–20 LOCKWASHER, 1/4" ARM, support CAPSCREW, hex hd, 3/8–16 x 1" BLOCK, mounting cable CAPSCREW, hex hd, 1/4–20 x 1" KNOB LEVER, actuator HOLDER, gun SCREW, shoulder, sch, 1/4 x 3/8" JAW, clamp	Qty. 1 1 1 2 1 1 2 1 2 1 1 2 1 1 1 1 1 1 1		108535 Part No. 107445 111045 LL5319 110755 100133 243161 286517 178342 241419 240995	Description CAPSCREW, sch, 1/4–20 x 1–1/2" SCREW, shoulder, sch, 5/16 x 1" LineLazer Tip, Size 319 WASHER LOCKWASHER, 3/8" RAC 5 Dripless TIP GUARD SwitchTip, Size 517 CLIP, spring CABLE, remote trigger, color-coded HOSE, 1/4" ID, cpld 1/4–18 npsm(f) 6–1/2' (1.2 m) grounded, spring guards BRACKET, support, extension CLAMP, extension	1 Qty. 1 1 1 1 1 1 1 1 1 1 1 2
98 99	235459 101345	FLEX GUN See manual 308235 for parts NUT, hex, ham, 1/4–20	1 2			r Kit 235474 gasket, diffuser/seat	

The Graco Warranty

Graco warrants all equipment listed in this manual which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale by an authorized Graco distributor to the original purchaser for use. With the exception of any special extended or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance or structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and

Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

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Graco Phone Number

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