

Steering Cable Replacement Instructions for LineLazer V 250_{SPS} and 250_{DC}

3A6981C

For steering cable replacement on self-propelled line striper. Both cables must always be replaced, even if only one failed.

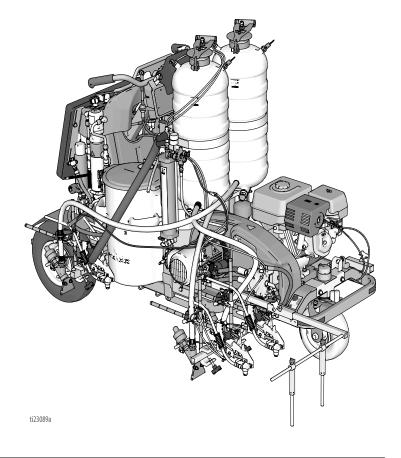
For Models: 17H471, 17H472, 17H473, 25P365, 17H474, 17H466, 17H467, 17H468, 17J951, and 17H469



Important Safety Instructions

Read all warnings and instructions in this manual before using the equipment. Be familiar with the controls and the proper usage of the equipment. Save these instructions.

Related Manuals:	
3A3393	Operation



Use only genuine Graco replacement parts.

The use of non-Graco replacement parts may void warranty.

Warnings

The following warnings are for the setup, use, grounding, maintenance, and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbols refer to procedure-specific risks. When these symbols appear in the body of this manual or on warning labels, refer back to these Warnings. Product-specific hazard symbols and warnings not covered in this section may appear throughout the body of this manual where applicable.

⚠WARNING



SKIN INJECTION HAZARD

High-pressure spray is able to inject toxins into the body and cause serious bodily injury. In the event that injection occurs, **get immediate surgical treatment.**



- Do not aim the gun at, or spray any person or animal.
- Keep hands and other body parts away from the discharge. For example, do not try to stop leaks with any part of the body.
- Always use the nozzle tip guard. Do not spray without nozzle tip guard in place.



- Use Graco nozzle tips.
- Use caution when cleaning and changing nozzle tips. In the case where the nozzle tip clogs while spraying, follow the **Pressure Relief Procedure** for turning off the unit and relieving the pressure before removing the nozzle tip to clean.



- Equipment maintains pressure after power is shut off. Do not leave the equipment energized or under pressure while unattended. Follow the **Pressure Relief Procedure** when the equipment is unattended or not in use, and before servicing, cleaning, or removing parts.
- Check hoses and parts for signs of damage. Replace any damaged hoses or parts.



- This system is capable of producing 3300 psi. Use Graco replacement parts or accessories that are rated a minimum of 3300 psi.
- Always engage the trigger lock when not spraying. Verify the trigger lock is functioning properly.
- Verify that all connections are secure before operating the unit.
- Know how to stop the unit and bleed pressure quickly. Be thoroughly familiar with the controls.



MOVING PARTS HAZARD

Moving parts can pinch, cut or amputate fingers and other body parts.



- Keep clear of moving parts.
- Do not operate equipment with protective guards or covers removed.
- Equipment can start without warning. Before checking, moving, or servicing equipment, follow the Pressure Relief Procedure and disconnect all power sources.



PERSONAL PROTECTIVE EQUIPMENT

Wear appropriate protective equipment when in the work area to help prevent serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and burns. This protective equipment includes but is not limited to:

- Protective eyewear, and hearing protection.
- Respirators, protective clothing, and gloves as recommended by the fluid and solvent manufacturer.

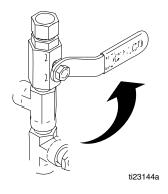
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Pressure Relief Procedure

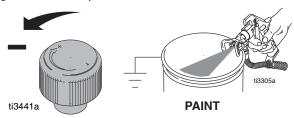


This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid, such as skin injection, splashing fluid and moving parts, follow the Pressure Relief Procedure when you stop dispensing and before cleaning, checking, or servicing the equipment.

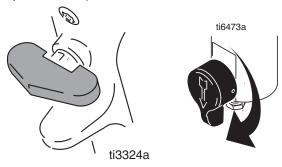
 Set pump valve(s) to OFF (250sPs has one pump valve; 250DC has two pump valves). Turn engine OFF.



Turn pressure control to lowest setting. Trigger all guns to relieve pressure.



3. Engage all gun trigger locks. Turn prime valve(s) down (250sps has one prime valve; 250pc has two prime valves).



- 4. If you suspect the spray tip or hose is clogged or that pressure has not been fully relieved:
 - VERY SLOWLY loosen the tip guard retaining nut or the hose end coupling to relieve pressure gradually.
 - b. Loosen the nut or coupling completely.
 - c. Clear the obstruction in the hose or tip

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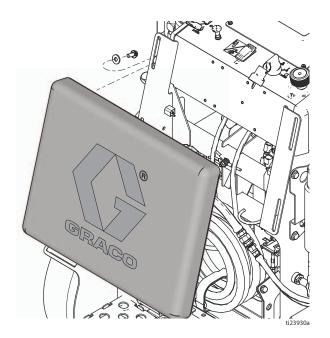
Steering Cable Replacement



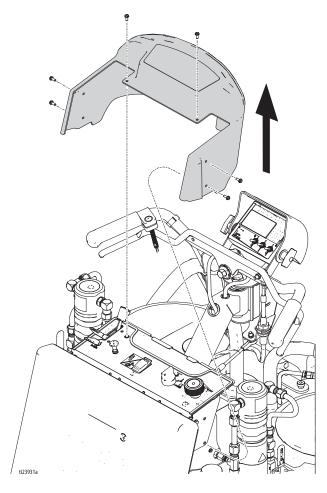
Removal

NOTE: Both cables must always be replaced, even if only one failed. Repeat steps 5-7 for each cable.

- 1. Perform Pressure Relief Procedure, page 3.
- 2. Loosen four screws and remove pad.

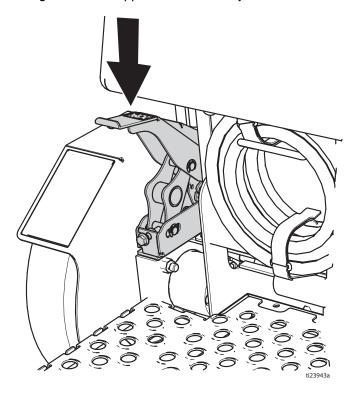


3. Remove six screws and control shroud.

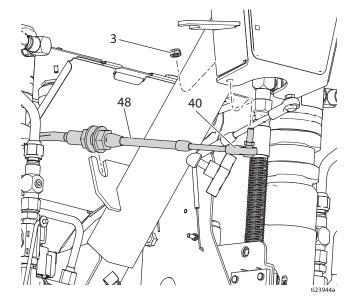


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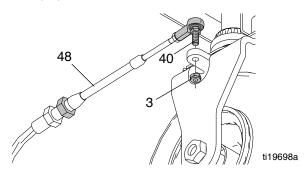
4. Apply parking brake. Raise front wheel off the ground and support frame on two jack stands.



 At the handlebar, remove locknut (3) and ball joint (40) from handlebar. Remove ball joint (40) from cable (48) and save if not replacing. Loosen two nuts on cable (48) and remove from bracket.



6. On front wheel fork, remove locknut (3) and ball joint (40) from fork. Remove ball joint (40) from cable (48) and save if not replacing. Loosen two nuts on cable (48) and remove from bracket.



 Note position of cable (48) and cut off all cable ties that retain cables to frame. Install new cable as old cable is removed to follow same route through frame.

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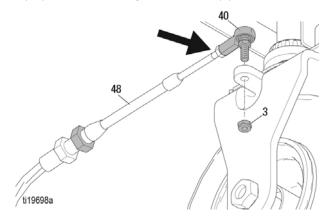
Installation

Both cables must always be replaced, even if only one failed. Repeat steps 1-8 for each cable.

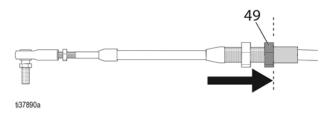
 Install new cable (48) by following same route as old cable being removed.

NOTE: Steps 2-4 pertain to front wheel only.

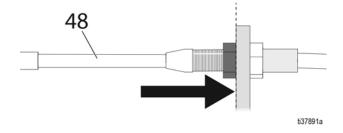
2. At front wheel, thread ball joint (40) on cable (48) to match threads on other side of fork. Install ball joint (40) into fork and tighten locknut (3).



3. Fully back off rear adjustment nut (49) on new cable as shown.

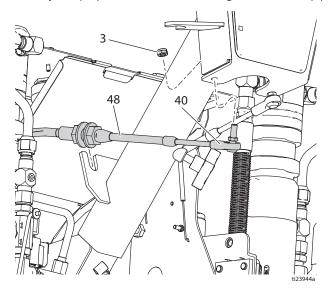


4. Install cable (48) into frame bracket and tighten front nut towards rear nut until fully tightened.

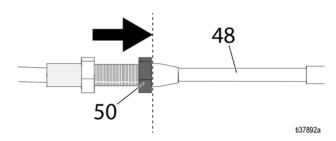


NOTE: Steps 5-10 pertain to handle bar only.

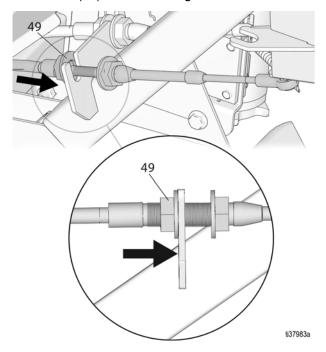
5. At handle bar, install ball joint (40) on cable (48) and match threads on other side of handle bar. Install ball joint (40) into handlebar and tighten locknut (3).



6. Fully back off front adjustment nut (50) on new cable as shown.

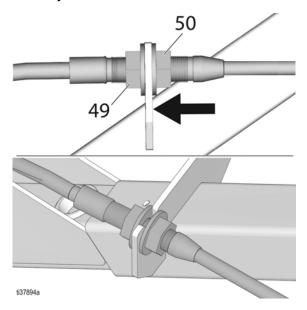


7. Install cable into bracket and tighten rear adjustment nut (49) until secure against bracket.



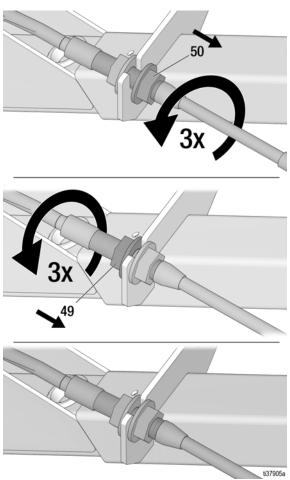
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- 8. Verify handlebar is aligned straight with the frame. If misaligned, turn adjustment nut (49) to straighten the handle.
- 9. Turn front adjustment nut (50) until flush with bracket. This will determine starting point of tension adjustment.



NOTE: The following tension instructions must be followed to assure cable will not fail prematurely.

10. Mark the front adjustment nut (50) to note current position, then back off three full rotations. Tighten rear adjustment nut (49) until frame is secured between both adjustment nuts. Verify both front and rear adjustment nuts are tight against the bracket.



- 11. Repeat steps 1-10 for second cable.
- 12. Verify the front wheel self-centers and that steering is tight and responsive. Ball joint (40) should rotate easily on the ball. Install cable ties in locations noted in step 7 of removal.
- 13. Reinstall pad and tighten four screws.
- 14. Reinstall control shroud and tighten six screws.
- 15. Remove jack stands and test drive sprayer to check steering and straight line tracking. Adjust if necessary (see Operation manual).

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Graco Standard Warranty

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale 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 of 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 transportation.

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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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TO PLACE AN ORDER, contact your Graco distributor or call 1-800-690-2894 to identify the nearest distributor.

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Original instructions. This manual contains English. MM 3A3394

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www.graco.com Revision C, March 2020