

Spool Replacement Kit for XD30 High Capacity Hose Reels

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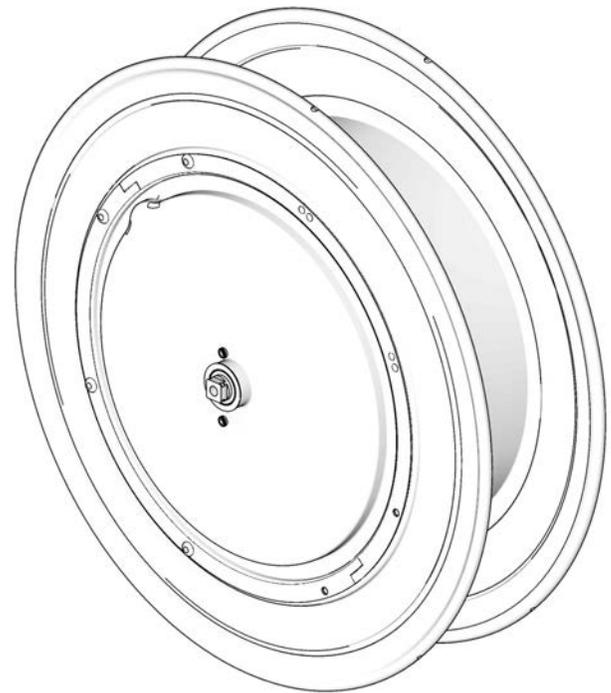
- Instructions for Replacing Spool on XD Series High Capacity Hose Reels -

Part No: 24C998



Important Safety Instructions

Read all warnings and instructions in this manual. For complete Warnings and instructions see the XD30 High Capacity Hose Reel Instruction Manual. Save all instructions.



Related Kits:

The following optional replacement kits are available for use when replacing the spool. Contact your Graco Distributor or Graco Customer Service at 612-623-6928 or 1-800-533-9655 (toll free).

Swivel Replacement Kit: 24C993, 24C994, 24P059, 24P060, 128920, 128921

Low / Medium Pressure Swivel Seal Replacement Kit: 24D134

Ratchet and Latch Replacement Kit: 3A0142

Hose Replacement Kit: 24C986, 24C987, 24C988, 24C989, 24C990, 24C991, 234C992

Warnings

 WARNING	
  	<p>SKIN INJECTION HAZARD</p> <p>High-pressure fluid from dispensing device, hose leaks, or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. Get immediate surgical treatment.</p> <ul style="list-style-type: none"> Do not point dispensing device at anyone or at any part of the body. Do not put your hand over the fluid outlet. Do not stop or deflect leaks with your hand, body, glove, or rag. Follow the Pressure Relief Procedure when you stop dispensing and before cleaning, checking, or servicing equipment. Tighten all fluid connections before operating the equipment. Check hoses and couplings daily. Replace worn or damaged parts immediately.
 	<p>MOVING PARTS HAZARD</p> <p>Moving parts can pinch, cut or amputate fingers and other body parts.</p> <ul style="list-style-type: none"> Keep clear of moving parts. Do not operate equipment with protective guards or covers removed. Pressurized equipment can start without warning. Before checking, moving, or servicing equipment, follow the Pressure Relief Procedure and disconnect all power sources.

Pressure Relief Procedure



1. Close the supply pump's bleed-type master air valve (required for pneumatic systems) (FIG. 1).

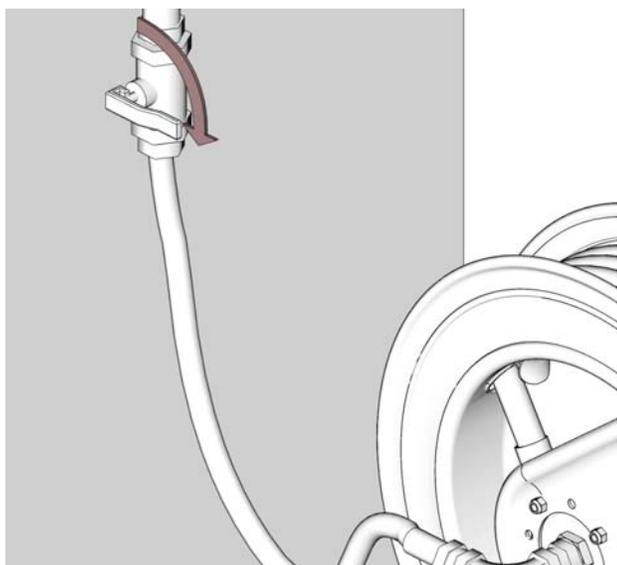


FIG. 1

2. Trigger fluid valve into a waste container until pressure is relieved (FIG. 2).



FIG. 2

3. Leave the fluid valve open until you are ready to use the system again.

*If you suspect that the dispensing valve, extension, or grease fitting coupler is clogged, or that pressure has not been fully relieved after you have followed the steps above, **very slowly** loosen the coupler or hose end coupling to relieve the pressure gradually, then loosen it completely. Then clear the clog.*

Disassembly

NOTE: Part numbers provided in these instructions correspond to the part numbers used on the assembly drawing provided in the XD30 High Capacity Hose Reel Instruction Manual.



1. **Relieve the pressure** (page 2).



Never allow the reel to spin freely!

Most hose reel spools are replaced due to a broken spring. Even though the spring is broken, there may still be tension left in the spring which could cause the reel to spin freely. Doing so causes the reel to spin out of control, which could cause serious injury if you are hit by the hose or other moving parts.

To ensure all tension is completely removed from the spring, decrease spring tension using the procedure provided on page 7.

2. **Decrease spring tension** (page 7).
3. Remove reel from service by removing 4 screws (A) holding reel base to mounting surface (FIG. 3).

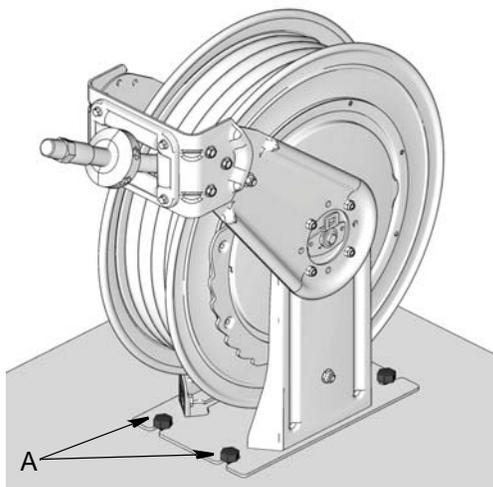


FIG. 3

4. Pull hose to unwind it from reel.
5. Disconnect hose fitting (B) from swivel fitting (23) (FIG. 4) and finish removing hose from spool.

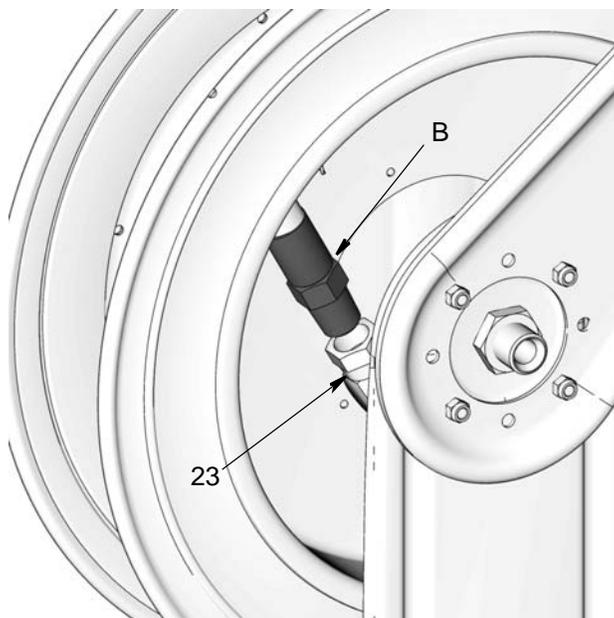


FIG. 4

6. Set the hose aside to reinstall on the new spool.

NOTE: Inspect hose for wear or damage. If necessary, replace hose. Hose replacement kits are available. To order a new hose for reassembly, contact your local Graco distributor or Graco Customer Service.

7. To ensure spring tension is completely released and has not been re-energized while removing the hose from the reel, perform procedure for **decreasing spring tension again** (page 7).

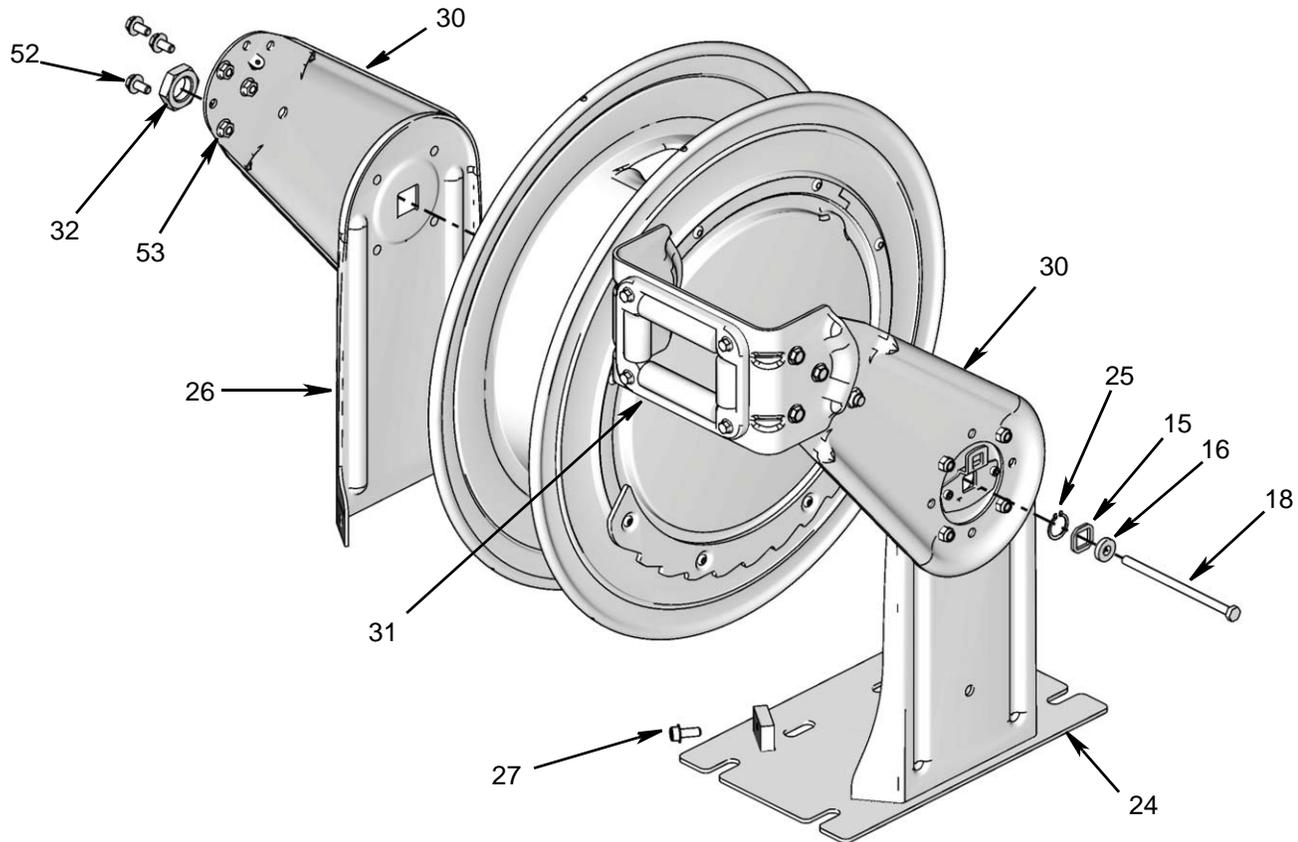


FIG. 5

Unless otherwise noted, steps 8 - 13 refer to FIG. 5.

8. Remove large nut (32).
9. Remove two screws (27) holding pedestal (26) to base (24) and three screws (52) and nuts (53) holding hose guide (31) to guide arm (30).
10. Completely remove guide arm and pedestal assembly (26 / 30) and set it aside to reinstall on the new spool. These parts do not have to be disassembled.
11. Lay hose reel with spool side down so you can easily access the remaining installed guide arm and pedestal (24 / 30). Remove long bolt (18) and washers (15 / 16).

NOTE: The swivel assembly is held in place by the tension created when bolt (18) is tightened and securely in place. When this tension is removed by loosening the bolt, the swivel and swivel shaft assembly parts (3 / 22) and washer (7) may come apart (FIG. 6).

Examine swivel assembly and o-rings (20 / 21). If these parts are damaged, replacement kits for the Swivel Assembly (24C993, 24C994) or just the

Swivel Seals (24D134) are available. Contact your local Graco Distributor or Graco Customer Service to order this kit.

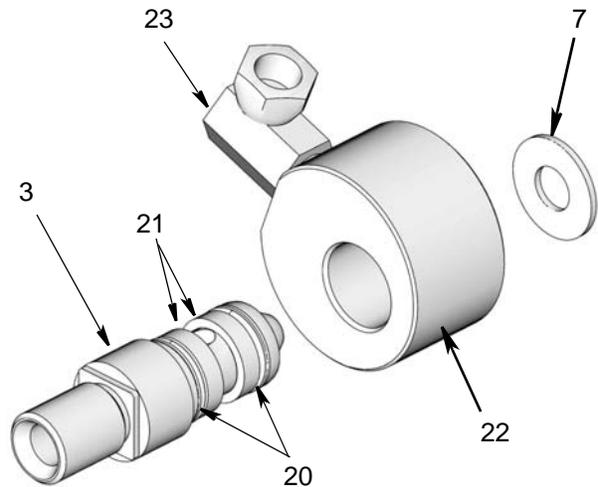


FIG. 6

12. Remove snap ring (25).

13. Remove guide arm and pedestal base (24 / 30) as one piece. These parts do not have to be disassembled.
14. Remove washer (17) (FIG. 7).
15. Remove screws (48) and ratchet (59) from spool. Set these parts aside to reinstall on the new spool (FIG. 7).

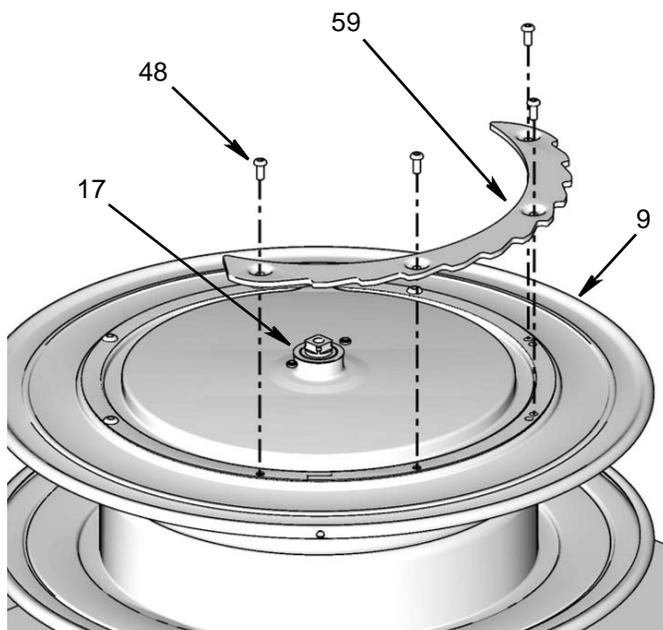


FIG. 7

NOTE: Ratchet and Latch Replacement Kit 24C995 is available if you do not want to reuse the ratchet on the new spool.

Latch (42) (not shown) is also included in the kit and can be used to replace the latch currently installed on the guide arm. Instructions for replacing this part are provided in the kit.

Contact your local Graco Distributor or Graco Customer Service to order this kit.

16. Discard old spool (9).

Reassembly

1. Place new spool (9) on its side on a work bench (FIG. 8).

NOTE: It is easier to reattach the guide arm and pedestal assembly to the spool if the spool is supported and somewhat level. Placing a couple blocks of 1" thick scrap wood under the spool as shown in FIG. 8 will help support the spool during the arm installation.

2. Install ratchet (59) to side of spool using screws (48) (FIG. 7).
3. Position guide arm and pedestal base (24 / 30) assembly over spool. Adjust as needed to correctly align parts (FIG. 8).

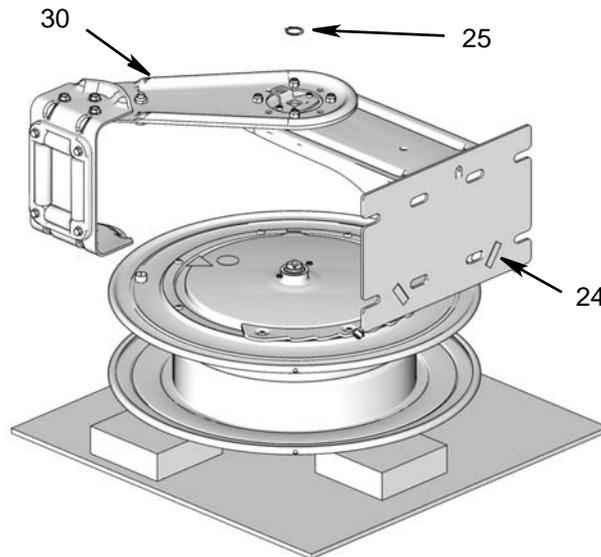


FIG. 8

4. Replace snap ring (25) (FIG. 8).

Unless otherwise noted, steps 5 - 12 refer to FIG. 5, page 4.

5. Install washers (15 / 16) over end of bolt (18) and slide them over the threads to the bolt head.
6. Slide bolt (18) through hole in center of spool. Do NOT tighten bolt.
7. Stand hose reel assembly upright on the base (24).

Warnings

8. Install swivel assembly (3 / 22 / 23) and washer (7) in spool. Align fitting (23) with opening (A) in side of spool. For hose reel to operate correctly, these parts must be aligned correctly (FIG. 9).

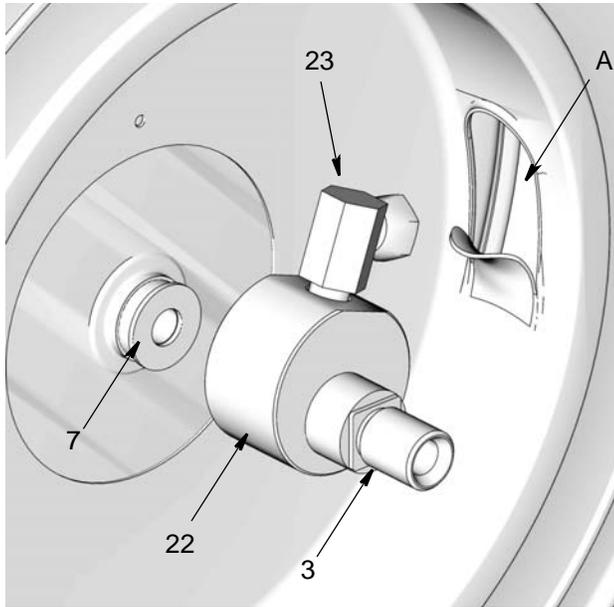


FIG. 9

9. Tighten bolt (18).
10. Align pedestal assembly (26) to base (24). Install 2 screws (27). Tighten and torque screws to 20-30 ft. lbs (89 - 133 N.m).
11. Align guide arm (30) and hose guide (31). Install and tighten screws (52) and nuts (53).
12. Install large nut (32) (FIG. 5, page 4). Tighten and torque nut to 85-105 ft. lbs (378 - 467 N.m).

13. Insert the hose fitting end (B) of hose through the hose guide (31) and connect hose end to the hose reel swivel fitting (23) (FIG. 10). Tighten securely.

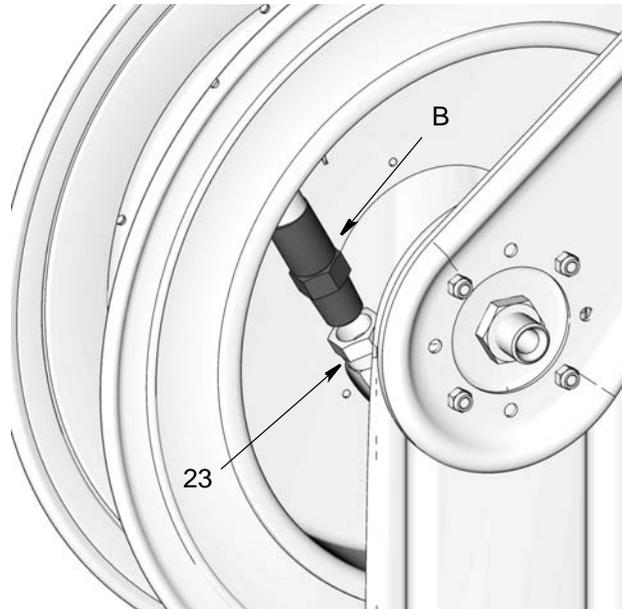


FIG. 10

14. Hand wind hose around spool.
15. Reinstall hose reel to wall, ceiling or truck bed.
16. If a new hose is installed on reel, flush hose following flushing instructions provided in the Hose Replacement Kit instruction manual (included in the Hose Replacement kit).
17. Install meter or dispense valve to end of hose.
18. Set spring tension following Increasing Spring Tension instructions on page 9.

Adjusting Spring Tension



Uncontrolled spinning of the hose reel could cause serious injury if you are hit by the hose.

- Never allow the reel to spin freely.
- The reel must be bolted securely in place when making adjustments.

Decreasing Spring Tension

1. If it is not already loose, loosen (A) 3-5 turns. Do not remove (A)! (FIG. 11).

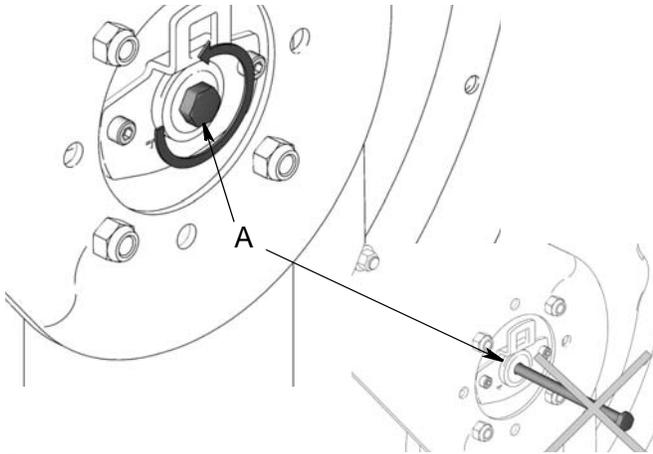


FIG. 11

2. If they are not already loose, loosen (B) 3-5 turns. Do not remove (B) yet (FIG. 12).

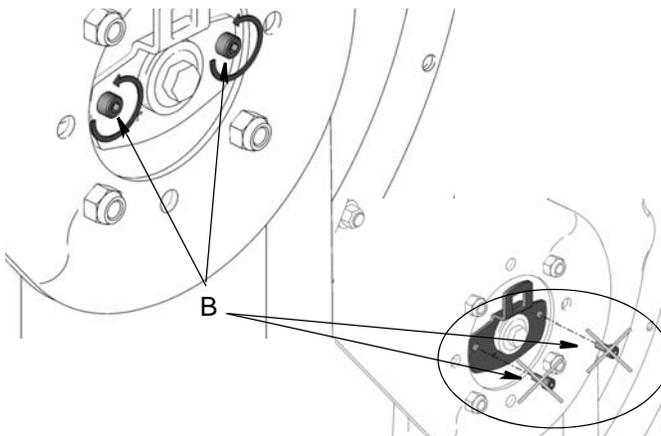


FIG. 12

3. Insert ratchet (C). Then remove screws (B) (FIG. 13).

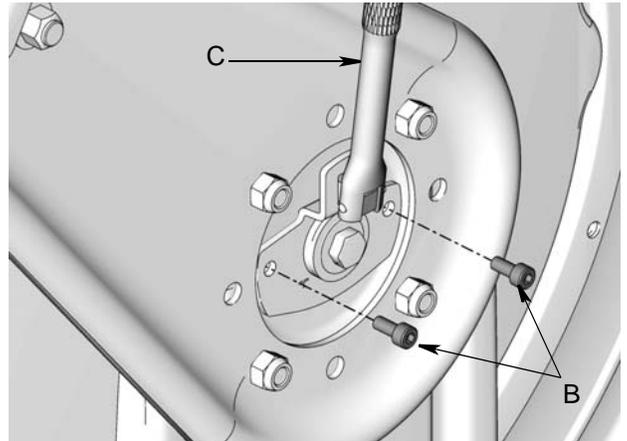


FIG. 13

4. Turn ratchet (C) one full turn counter-clockwise (FIG. 14).

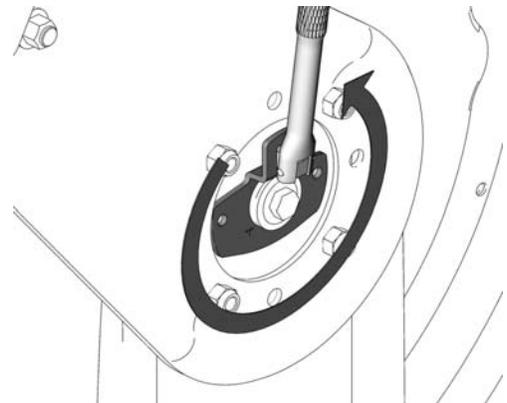


FIG. 14

Adjusting Spring Tension

5. Replace one screw (B). Leave ratchet (C) in place (FIG. 15).

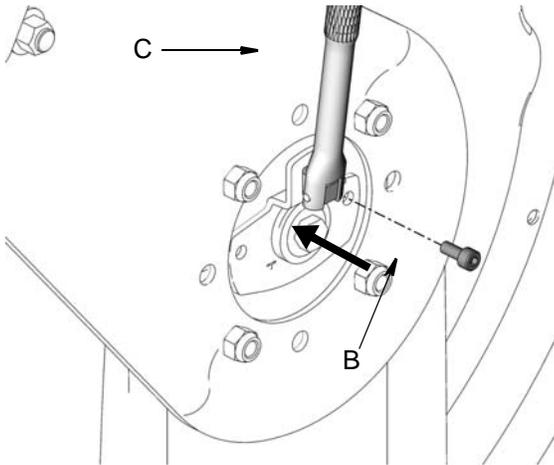


FIG. 15

6. Remove ratchet (C) (FIG. 16).

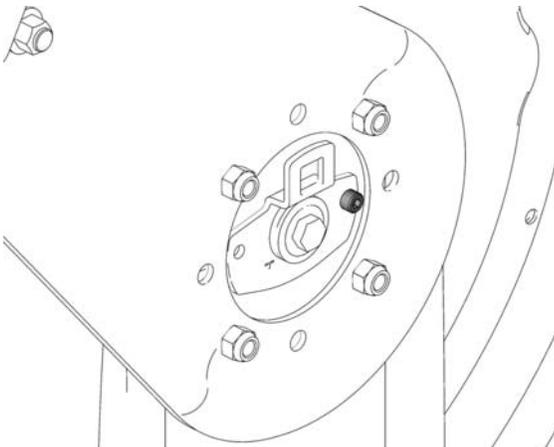


FIG. 16

7. Pull hose to test tension. Repeat 3 - 7 if necessary (FIG. 17).

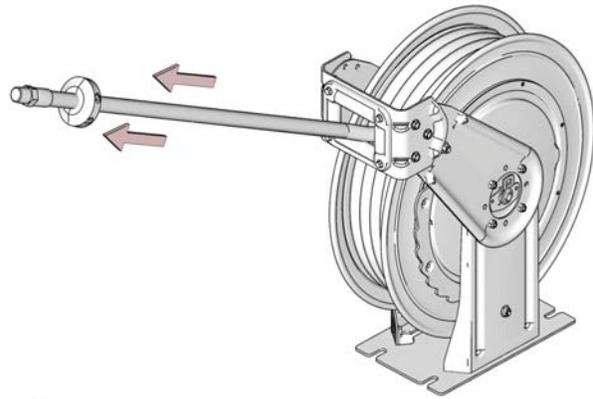


FIG. 17

8. Replace and tighten screws (B) and (A) (FIG. 18).

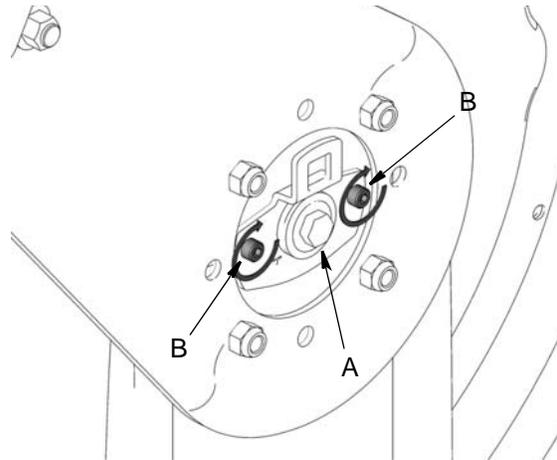


FIG. 18

Increasing Spring Tension

					
<p>Uncontrolled spinning of the hose reel could cause serious injury if you are hit by the hose.</p> <ul style="list-style-type: none"> • Never allow the reel to spin freely. • The reel must be bolted securely in place when making adjustments. 					

1. Loosen, but **DO NOT REMOVE**, bolt (A) (approximately 3 to 5 turns) (FIG. 19).

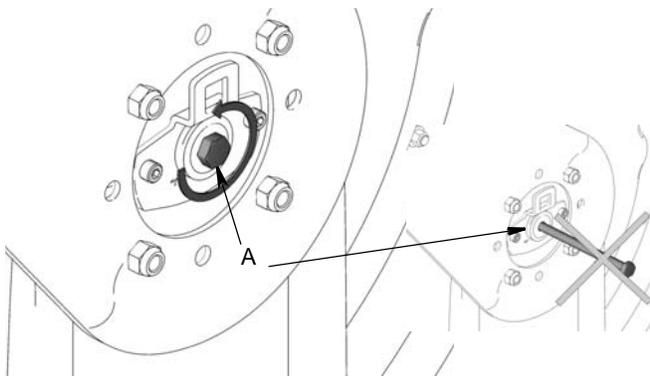


FIG. 19

2. Loosen screws (B) approximately 3 to 5 turns. **Do not remove screws (B) yet** (FIG. 20).

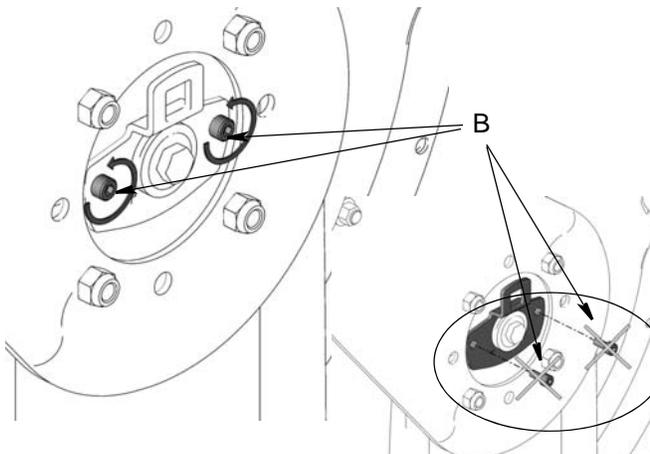


FIG. 20

3. Insert ratchet (C) in slot (D) first, then entirely remove screws (B) (FIG. 21).

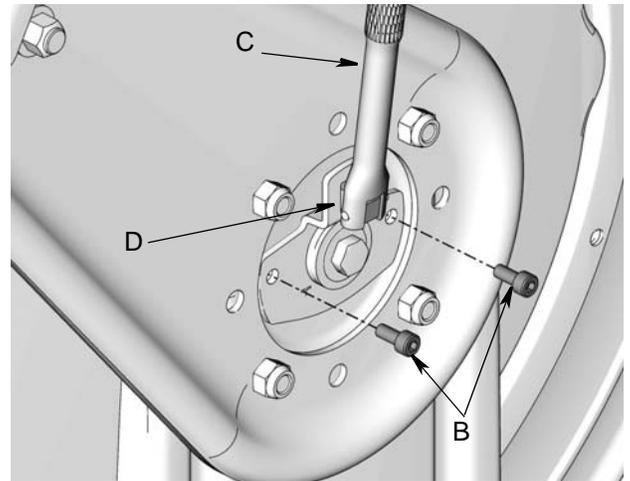


FIG. 21

4. Tighten spring by turning ratchet (C) clockwise. Refer to Table 1 to determine the number of full turns recommended for setting the spring tension for your hose reel model (FIG. 22).

Table 1: Recommended Turns to Set Spring Tension

Model	Approx. No. Turns From Fully Relaxed Position to Increase Spring Tension
HSHC5	11
HSLC8	5
HSLD5	6
HSLE3	12
HSMC8	7
HSMD5	12
HSPB8	6

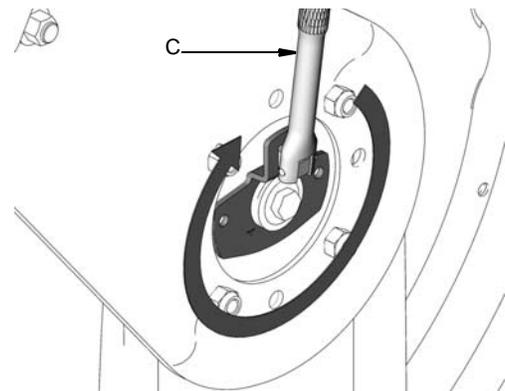


FIG. 22

5. Leave ratchet (C) in place. Replace one screw (B) (FIG. 23).

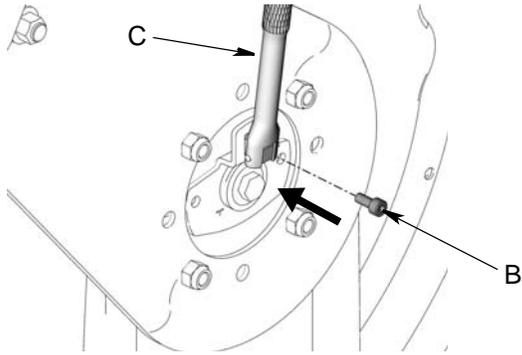


FIG. 23

6. Remove ratchet (C) from opening (D) (FIG. 24).

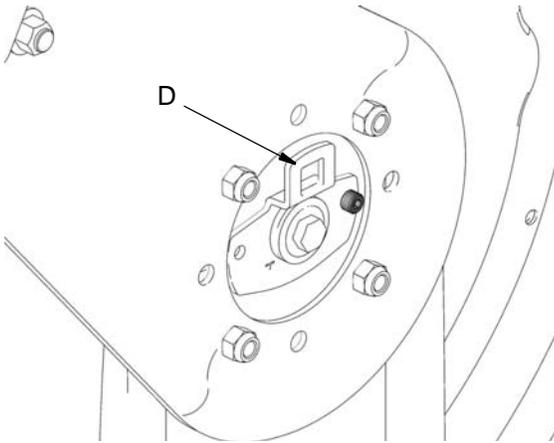


FIG. 24

7. Pull on hose to test tension (FIG. 25).

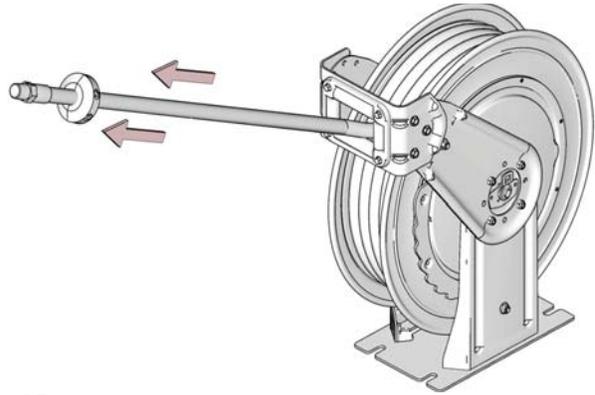


FIG. 25

8. If spring tension is still a little loose, reinsert ratchet (C) in slot (D) and remove screw (B) again.
9. Turn ratchet (C) one full turn clockwise.
10. Repeat Steps 5 - 7 until tension is tight.

OR

11. If spring tension is too tight, follow instructions for Decreasing Spring Tension, beginning on page 10.
12. When spring tension is set correctly, replace and tighten screws (B) and bolt (A).

Installing Dispensing Device

Install meter or dispense device to end of hose.

All written and visual data contained in this document reflects the latest product information available at the time of publication. Graco reserves the right to make changes at any time without notice.

This manual contains English. MM 3A0145

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