

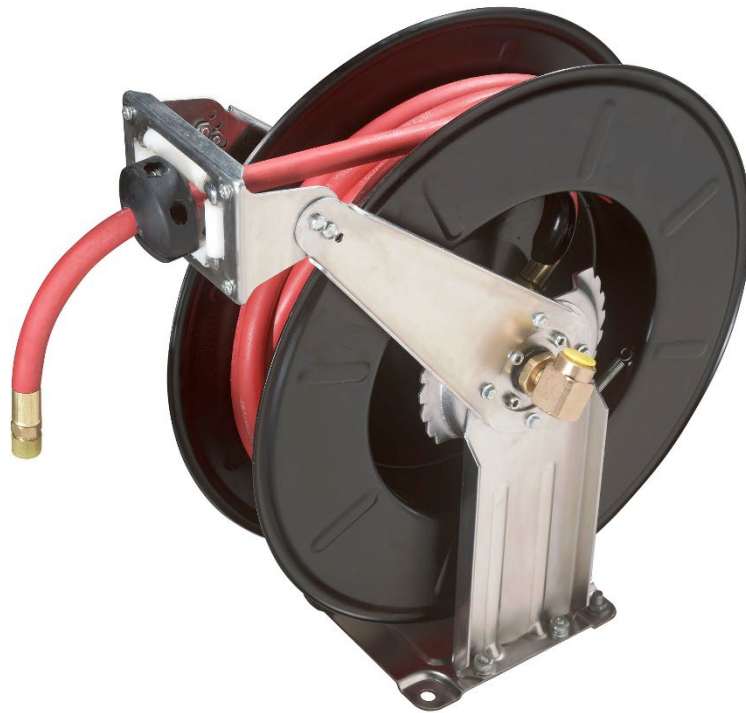
Hose Reel

Installation and Operation Manual

Manual P/N 5900278 — Manual Revision A — July 2022

Model:

- RH-50PL



Designed and engineered by BendPak Inc. in Southern California, USA. Made in China.

DANGER

IMPORTANT SAFETY INSTRUCTIONS, SAVE THESE INSTRUCTIONS!

Read this manual thoroughly before installing, operating, servicing or maintaining. Failure to follow the instructions and safety precautions in this manual can result in serious injury or death. Verify all operators read this manual. Keep the manual near the product for future reference. ***By proceeding with installation and operation, you agree that you fully understand the contents of this manual and assume full responsibility for product use.***

Manual. RH-50PL Hose Reel with Spring Rewind, *Installation and Operation Manual*, Manual P/N 5900278, Manual Revision A, released July 2022.

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Limitations. Every effort has been made to have complete and accurate instructions in this manual. However, product updates, revisions, and/or changes may have occurred since this manual was published. BendPak Ranger reserves the right to change any information in this manual without incurring any obligation for equipment previously or subsequently sold. BendPak Ranger is not responsible for typographical errors in this manual. You can always find the latest version of the [manual for your product on the Ranger website](#).

Warranty. The BendPak Ranger warranty is more than a commitment to you: it is also a commitment to the value of your new product. For full warranty details, contact your nearest BendPak Ranger dealer or visit bendpak.com/support/warranty. Go to bendpak.com/support/register-your-product/ and fill out the online form to register your product (be sure to click Submit).

Safety. Your new product was designed and manufactured with safety in mind. Your safety also depends on proper training and thoughtful operation. Do not set up, operate, maintain, or repair the unit without reading and understanding this manual and the labels on it; ***do not use this product unless you can do so safely!***

Owner Responsibility. In order to maintain your product properly and to ensure operator safety, it is the responsibility of the product owner to ***read and follow these instructions***:

- Follow all installation, operation, and maintenance instructions.
- Make sure product installation and operation conforms to all applicable local, state, and federal codes, rules, and regulations, such as state and federal OSHA regulations.
- Read and follow all safety instructions. Keep them readily available for operators.
- Make sure all operators are trained, know how to safely operate the unit, and are properly supervised.
- Do not operate the product until you are certain that all parts are in place and operating correctly.
- Carefully inspect the product on a regular basis and perform all maintenance as required.
- Service and maintain the unit only with approved replacement parts.
- Keep the manual with the product and make sure all labels are clean and visible.
- ***Only use this product if it can be used safely!***

Unit Information. Enter the Model Number, Serial Number, and the Date of Manufacture from the label on your unit. This information is required for part or warranty issues.

Model: _____

Serial: _____

Date of Manufacture: _____

Table of Contents

Introduction	3	Assembly Instructions	10
Shipping Information	4	Operating Instructions	11
Safety Considerations	4	Maintenance Instructions	12
Specifications	6	Parts List	13
Components	6	Maintenance Log	14
Installation	7		

Introduction

This manual describes the **RH-50PL Hose Reel** from BendPak Ranger.

More information about the full line of BendPak Ranger products is available at bendpak.com.

This manual is mandatory reading for all users of the RH-50PL, including anyone who sets up, operates, maintains, or repairs it.

 **DANGER** Be very careful when setting up, operating, maintaining, or repairing this equipment; failure to do so could result in property and/or product damage, personal injury, or (in very rare cases) death. Make sure only authorized personnel operate this equipment. All repairs must be performed by an authorized technician. Do not make modifications to the unit; this voids the warranty and increases the chances of serious injury or property damage. Make sure to read and follow the instructions on the labels on the unit.

Keep this manual on or near the equipment so that anyone who uses or services it can read it.

Technical support and service for your Hose Reel is available directly from your distributor or by calling the **Ranger Products Hotline at (805) 933-9970**. You may also contact the Hotline for consultation on parts replacement (please have the serial number and model number of your unit available).

Shipping Information

Your equipment was carefully checked before shipping. Nevertheless, you should thoroughly inspect the shipment **before** you sign to acknowledge that you received it.

When you sign the bill of lading, it tells the carrier that the items on the invoice were received in good condition. **Do not sign the bill of lading until after you have inspected the shipment.** If any of the items listed on the bill of lading are missing or damaged, do not accept the shipment until the carrier makes a notation on the bill of lading that lists the missing or damaged goods.

If you discover missing or damaged goods **after** you receive the shipment and have signed the bill of lading, notify the carrier at once and request the carrier to make an inspection. If the carrier will not make an inspection, prepare a signed statement to the effect that you have notified the carrier (on a specific date) and that the carrier has failed to comply with your request.

It is difficult to collect for loss or damage after you have given the carrier a signed bill of lading. If this happens to you, file a claim with the carrier promptly. Support your claim with copies of the bill of lading, freight bill, invoice, and photographs, if available. Our willingness to assist in helping you process your claim does not make us responsible for collection of claims or replacement of lost or damaged materials.

Safety Considerations

Read this manual carefully before using your new product. Do not install or operate the product until you are familiar with all operating instructions and warnings. Do not allow anyone else to operate the product until they are also familiar with all operating instructions and warnings.

 **WARNING** **California Proposition 65 Warning.** This product can expose you to chemicals including styrene and vinyl chloride which are on the list of over 900 chemicals identified by the State of California to cause cancer, birth defects or reproductive harm. **ALWAYS** use this product in accordance with BendPak's instructions. For more information go to www.P65Warnings.ca.gov.

Safety Information

Please note the following:

- The product is a Hose Reel. **Use it only for its intended purpose.**
- The product should only be operated by authorized, supervised personnel. Keep children and untrained personnel at least 30 feet away from the unit.
- Keep hands and body clear of all pinch points.
- You **must** wear OSHA-approved (Publication 3151) Personal Protective Equipment at all times when installing, operating, maintaining, or repairing the Hose Reel. Wear ANSI Z87.1 compliant safety goggles or safety glasses with side shields when assembling and using the hose reel.
- Do not use the product while tired or under the influence of drugs, alcohol, or medication.
- Do not make any modifications to the product.
- Do not modify or defeat any safety features on this device.

- Verify the incoming air or water line pressure does not exceed the rated maximum operating pressure of 300 psi / 20.6 bar.
- The warnings, cautions, and instructions in this operating manual cannot cover all possible conditions that could occur. Common sense and caution are imperative when using any tools including this Hose Reel or other pneumatic tools.
- Secure the unit in a dry, clean, flat concrete surface or bolted onto the structural lumber of a wall or ceiling capable of supporting the Hose Reel's weight.
- Make sure all operators read and understand the *Installation and Operation Manual*. Keep the manual near the device at all times.
- Disconnect the air or water supply before making any adjustments or changing accessories.
- Use soap and water when checking for leaks.
- Make a visual inspection of the product before using it. Do not use the product if you find any missing or damaged parts. Instead, take the unit out of service, then contact an authorized repair facility, your distributor, or the Ranger Products Hotline at **(805) 933-9970**.
- BendPak Ranger recommends making a **thorough** inspection of the product at least once a year. Replace any damaged or severely worn parts, decals, or warning labels.

 **WARNING** Do not directly expose skin to pressurized air or fluids. Severe injury may result.

Symbols

Following are the symbols used in this manual:

 **DANGER** Calls attention to a hazard that **will** result in death or injury.

 **WARNING** Calls attention to a hazard or unsafe practice that **could** result in death or injury.

 **CAUTION** Calls attention to a hazard or unsafe practice that **could** result in personal injury, product damage, or property damage.

NOTICE Calls attention to a situation that, if not avoided, **could** result in product or property damage.



Tip Calls attention to information that can **help** you use your unit better.

Liability Information

BendPak Ranger assumes **NO** liability for damages resulting from:

- Use of the equipment for purposes other than those described in this manual.
- Modifications to the equipment without prior, written permission from BendPak Ranger.
- Injury or death caused by modifying, disabling, overriding, or removing safety features.
- Damage to the equipment from external influences.
- Incorrect operation of the equipment.

Specifications

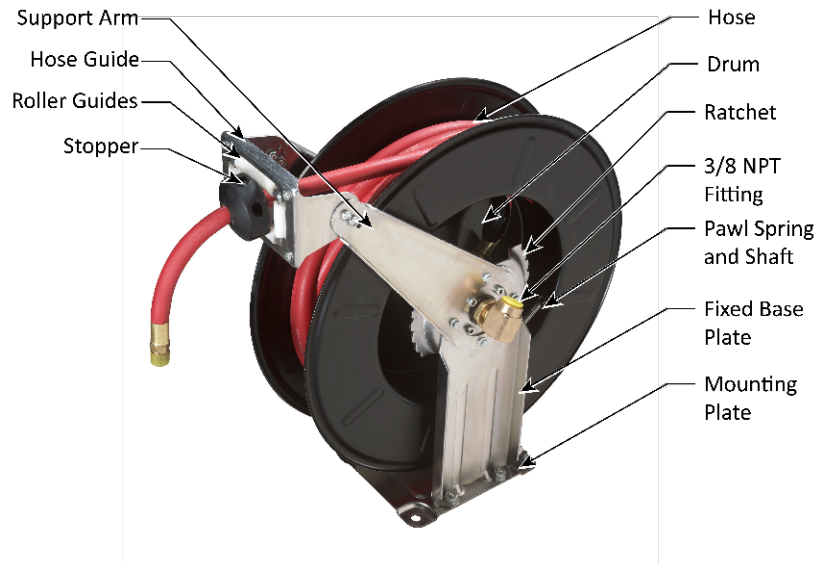
Hose Fittings	3/8-18 NPT
Maximum Working Pressure	300psi / 21 Bar
Weight	55 lbs. / 25 kg

All dimensions are approximate, for reference only.

Specifications subject to change without notice.

Components

The following drawing shows the major components of the RH-50PL.



The main **Components** of the RH-50PL are:

- **Drum.** Protects and encloses the spring.
- **Hose Guide.** Holds the Roller Guides and may be rotated to protect the Hose surface.
- **Roller Guides.** Nylon rollers, allow the Hose to be pulled in any direction without snagging.
- **Support Arms.** Supports the Axle, Drum, Spring, Hose and Hose Guide assembly.
- **Hose.** 50-foot Hose rated to carry air or water at 300 psi maximum.
- **Stopper.** A rubber stop fastened around the air hose that limits the Hose retraction.
- **Ratchet.** Angled teeth connected to and rotating with the Drum. These teeth engage/disengage with the Pawl to stop or allow rotation of the Drum.
- **Pawl Spring.** Provides force on the Pawl shaft to engage the Ratchet.
- **Pawl Shaft** Engages/disengages the ratchet to lock / unlock the Drum rotation.
- **3/8 NPT 90° Fitting.** Air/Water input.
- **Fixed Base Plate.** Steel brackets.
- **Mounting Plate.** Fixed mounting seat, steel plate with 1/2-inch (12.7 mm) holes for hardware.

Unpack the Components

Use caution when unpacking the components. You do not want to damage or misplace items.



Tip

Find a clean, clear space. Consider unpacking the components in the area where you are going to assemble the unit. The fewer items you must move, the fewer opportunities there are to lose, or damage components.

Installation

This section describes how to prepare your Hose Reel for normal operation. Perform the tasks in the order listed.

Installation Checklist

Following are the steps needed to install the Hose Reel. Perform them in the order shown.

- ☐ 1. Review the installation Safety Rules.
- ☐ 2. Make sure you have the necessary Tools.
- ☐ 3. Select the Installation Site.
- ☐ 4. Unpack the Components
- ☐ 5. Verify there is adequate Clearance on all Sides.
- ☐ 6. Bolt the Hose Reel to an adequate mounting location.
- ☐ 7. About Thread Sealants.
- ☐ 8. Connect the Hoses.

Installation Safety Rules

Always pay attention during installation. Use appropriate tools and equipment. Stay clear of moving parts. Keep hands and fingers away from pinch points. ***Safety is a top priority.***

Use caution when unpacking the Hose Reel and setting it up. The unit is heavy, and the weight is not evenly distributed. Dropping or knocking over the unit may cause equipment damage and/or personal injury.

WARNING

You ***must*** always wear OSHA-approved (publication 3151) Personal Protective Equipment when installing, using, maintaining, or repairing the equipment. ANSI-approved eye protection and hearing protection ***are mandatory.***

Be sure to read all warning labels and the instruction manual prior to operation of this equipment. Keep hands and body clear of all pinch points. Use proper eye protection when assembling and operation of the hose reel. Assemble the hose reel on a clean workbench. Make sure the incoming line pressure does not exceed the rated operating pressure of 300 psi. Keep children away from the work area. Only allow experienced, trained technicians to install the Hose Reel.

 **WARNING** Do not directly expose skin to pressurized air or fluids. Severe injury may result.

 **CAUTION** The Hose Reel is heavy and awkward for just one person to hold. BendPak Ranger strongly recommends having two or more persons work together to install the unit.

Use the Right Tools

You need to provide the following:

- Wrenches and screwdrivers
- Hammer drill and masonry drill bits, if mounting on a concrete or block surface.
- Lag Bolts and Washers or Masonry Anchors depending on the type of surface the Hose Reel is mounted to.

Finding a Location

Keep the following in mind when deciding on a location:

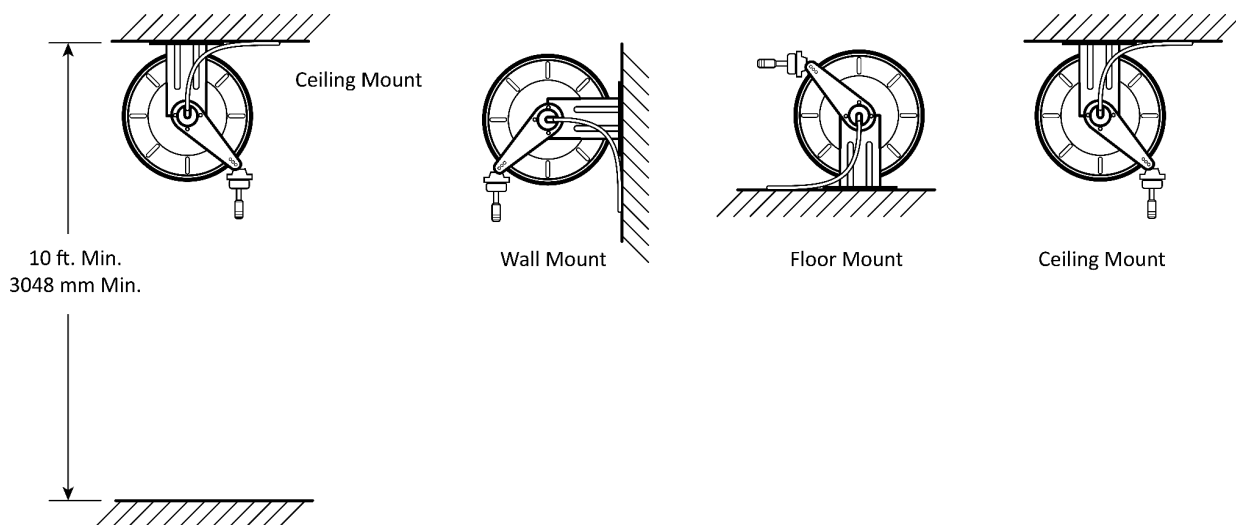
- **Air or Water source.** The Hose Reel needs to have access to an appropriate Air or Water source.
- **Floor.** The Reel is best used on a flat wall (or sturdy ceiling) with appropriate wood or metal framing to support the weight of the Hose Reel, or on a concrete floor using masonry anchors (not supplied). **Do not** install on asphalt.
- **Anchoring.** BendPak Ranger does not supply anchors with the Hose Reel.
- **Accessibility.** You need space around the unit to allow personnel and vehicle access to the hose and to extend or retract the Hose.

 **WARNING** Make sure the hose cannot be stepped on, run over, or pulled out. The Hose can become a tripping hazard; secure or protect the Hose as required.

Clearances

Verify a clear area exists around the floor mounted reel and the hose does not present a tripping hazard. Likewise, verify that a clear area exists around any wall or ceiling mount.

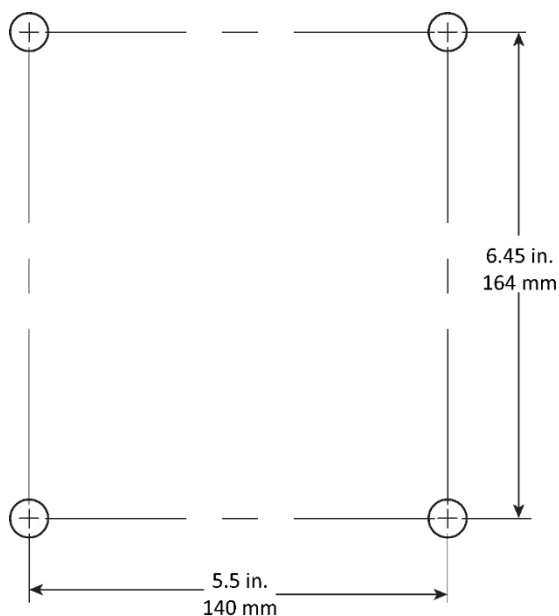
 **WARNING** The mounting examples shown below allow the Technician enough space to operate the Hose Reel. ***For safety purposes, only the Technician should be within 30 feet of the Hose Reel during use.***



Not to scale. Some components removed for clarity.

Mounting Bracket Locating Dimensions

Note: The four Mounting Plate hole sizes are 0.5-inch or appx. 12.7 mm. The center-to-center dimensions are shown below.



Assembly Instructions

Assemble the Mounting and Fixed Base Plates to the Reel:

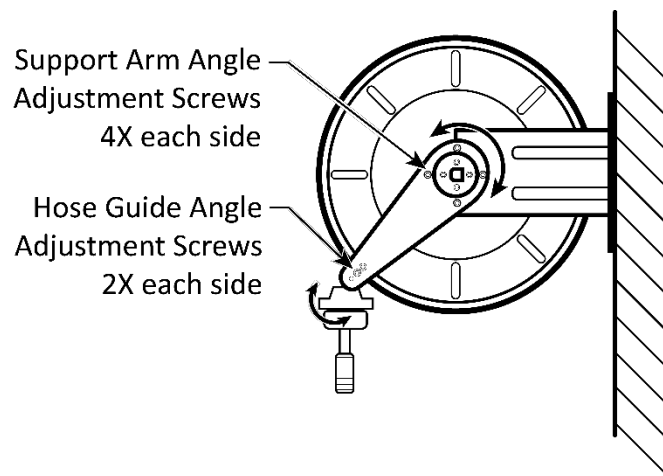
The Hose Reel is shipped in a disassembled state to protect the components during shipping.

Begin assembling the Hose Reel by attaching both Fixed Base Plates to the Mounting Plate using the supplied fasteners. (4 qty.) M8 X 15 bolts, (4 qty.) Ø8 Elastic Washers, and (4 qty.) M8 nuts. See Parts List page 14 for fasteners: Items #33, #34, and #35.

Installation of the Hose Reel:

Note: For overhead ceiling mounting, install Hose Reel at least 10 feet above the floor.

1. The Hose Reel has four 1/2-inch (12.7mm) bracket holes for mounting on a suitable flat surface.
2. The reel is supplied with a loose guide roller bracket. The bracket position may be changed depending on the reel mounting position. To change position, perform the following:
 - i. Pull out enough hose to allow the reel to latch.
 - ii. Remove the bolts that attach the guide roller bracket to the support post.
 - iii. Rotate guide roller bracket to correct position, replace the bolts and tighten.



3. Using the four holes in the base, mount the Reel in the desired location. Be sure to use appropriate hardware and tighten securely.
4. Apply Teflon tape or equivalent to air-supply line fitting thread, attach 3/8 NPT inlet to reel and tighten. The other end of the incoming line may now be connected to the air/water supply. If hose has been supplied with reel: Apply Teflon tape or equivalent to outlet fitting on reel hose, then attach the desired tool or nozzle. Check connections for leaks.
5. If the Hose Stopper requires adjustment, pull the hose from the reel and allow to latch at desired length. Loosen stopper to a position close to the hose guide. Tighten the stopper bolts and unlatch the reel.

Installation of the Hose:

1. Securely mount the Hose Reel to the wall, ceiling or floor.
2. Facing the 3/8 NPT Swivel Fitting side of the Reel: Turn the Drum clockwise by hand, until the rewind spring is tight, and the Drum has latched. As an extra precaution while installing a new hose, secure the drum in the latched position.
3. Insert the end of the hose through the Roller Guide and feed through the opening in the center of the drum hub.
4. Apply sealant or Teflon tape to the fitting, screw into the 3/8 NPT Swivel, and tighten.

Note: To avoid damage to the Swivel, use a wrench to hold the Swivel Fitting while tightening the Hose.

5. Attach the Hose Stopper at the other end of the hose near the outlet fitting.
6. Carefully release the Drum latch and slowly allow the hose to wind onto the reel.

Note: Final spring tension adjustment is accomplished by adding wraps of hose around the drum to increase tension or taking off wraps of hose to decrease tension. Refer to: Adjustment of Spring Tension in the Maintenance section below.

Operating Instructions

Check the Reel for correct operation by slowly pulling out the hose. A “clicking” noise will be heard every half revolution of the Drum.

To latch the reel, pull out the hose and allow it to retract after hearing the first, second or third “click”.

To unlatch the reel, slowly pull out the hose until the “clicking” noise stops and then let the hose retract until the hose stop rests against the hose guide.

Note: To avoid damage to the reel, always hold on to the hose while it is rewinding.

Maintenance Instructions

Check the hose condition for wear or damage and check the swivel fitting for leakage on a daily basis. Replace any worn, damaged or leaking parts.

Spring Tension Adjustment:

1. Pull out approximately 6 feet (2m) of hose and allow the Drum to latch.
2. Remove Hose Stopper from Hose and feed the Hose back through the Guide.
3. Wrap the pulled Hose one time around the drum to increase tension or unwrap hose one time from around the drum to decrease tension.
4. Re-insert hose through Guide and install the Stopper onto the Hose end.
5. Unlatch the Drum and check the tension. Pull Hose from the Reel and adjust stop position, if necessary.

Replacement of Swivel Seal:

Note: There are two types of swivel arrangements.

1. Turn off and disconnect supply line from 3/8 NPT Swivel inlet.
2. Remove Swivel assembly from the Reel axle.
3. Carefully hold the Fitting body in a vise and remove the brass tube from the body and the swivel nut from the tube.

Note: You may want to remove swivel from reel hose end, but this is not necessary unless a new swivel is being installed.

4. Replace the seals and reassemble the Swivel.
5. Re-connect the swivel thread fitting with axle.
6. Re-connect inlet supply line. Always use Teflon tape or equivalent when threading brass fittings.

Replacement of Hose:

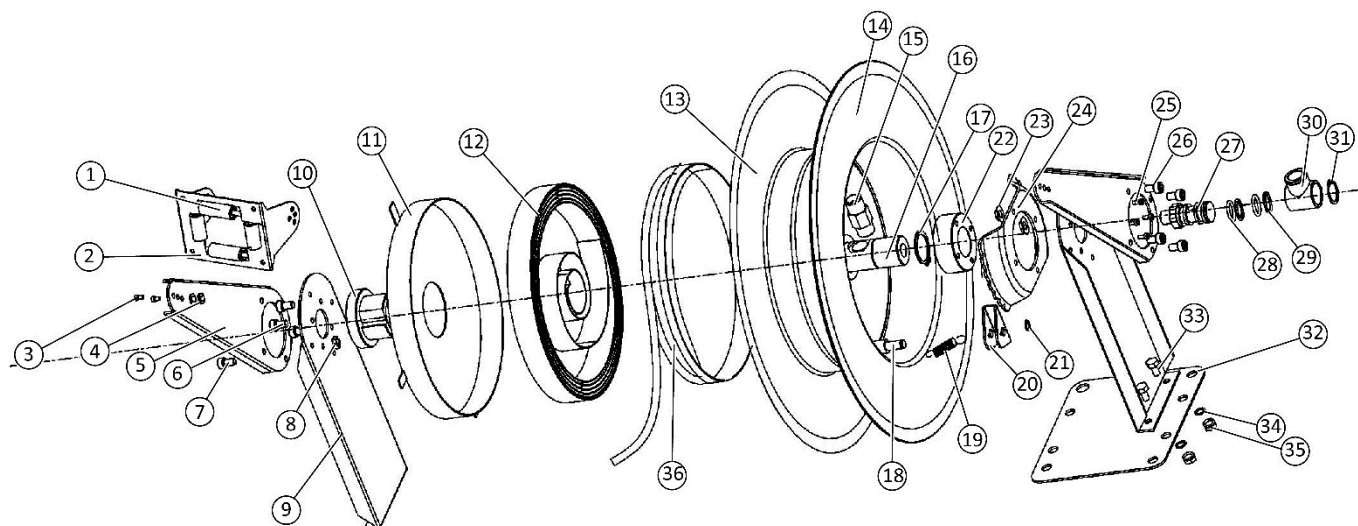
1. Turn off air or water supply to Reel.
2. Pull out all the old hose and lock the Reel in position.
3. Remove the two Hose Clamps from the Hose.
4. Carefully disconnect Hose from Swivel Joint on side of reel or the male fitting in the axle's center and remove the old hose.
5. Feed new hose through Guide and opening in the Drum and connect Swivel. Reinstall two hose clamps on the inside and outside of the Drum flange. Install the Stopper on the other end of the Hose in the same position as before.
6. Carefully release the Drum latch and slowly allow the Hose to wind onto the Reel.

Note: Final spring tension adjustment is accomplished by adding or removing wraps of hose around the drum. (Details see Spring Tension Adjustment).

Spring Canister Warning:

If the rewind spring fails for any reason, Ranger strongly recommends replacement of the spring canister be performed by professional service personnel only.

Parts List



Item	Description	Qty.	Item	Description	Qty.	Item	Description	Qty.
1	Guide	1	13	Drum	1	25	Bolt, M6 x 12	4
2	Guide Assembly	1	14	Drum, Slotted	1	26	Bolt, M6 x 12	4
3	Inner M6 x 1 Bolt	4	15	Straight Joint	1	27	Spool	1
4	M6 Lock Nut	4	16	Axle, Main	1	28	O-Ring	2
5	Support Arm	2	17	External Circlip Ø15	1	29	Flange, Bead	2
6	M6 x 1 Bolt	4	18	Pawl Shaft	1	30	Valve Body	1
7	M6 x 1 Bolt	4	19	Pawl Spring	1	31	External Circlip	1
8	M6 Angle Flange	8	20	Pawl	1	32	Fixed Seat	1
9	Fixed Base Plate	2	21	External Circlip Ø10	1	33	Bolt, M8 x 15	4
10	Spring Fixed Seat	1	22	Sleeve, Fixed	1	34	Ø8 Elastic Washer	4
11	Spring Fixed disk	1	23	M6 Nut	4	35	M8 Nut	4
12	Spring	1	24	Ratchet Mechanism	1	36	Hose	1

Maintenance Log

Maintenance Log



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Santa Paula, CA 93060 USA