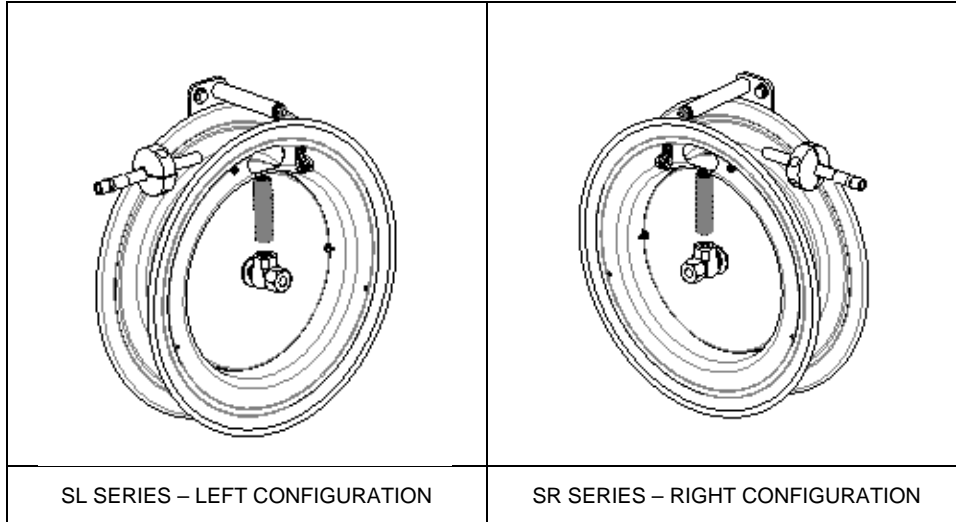




SPRING RETRACTABLE SIDEMOUNT REELS:
SERIES S13, S15, S17, S19
(ADD "EZ" PREFIX FOR EZ-COIL™ MODELS IN EACH SERIES)



COXREELS

The technical data and images which appear in this manual are for informational purposes only. **NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE CREATED BY THE DESCRIPTIONS AND DEPICTIONS OF THE PRODUCTS SHOWN IN THIS MANUAL.** COXREELS makes no warranty (and assumes no liability) as to function of equipment or operation of systems built according to customer design or of the ability of any of its products to interface, operate or function with any portions of customer systems not provided by COXREELS.

COXREELS agrees to repair or exchange the goods sold hereunder necessitated by reason of defective workmanship and material discovered and reported to COXREELS within two years after original invoice date.

Except where the nature of the defect is such that it is appropriate, in COXREELS' judgment, to effect repairs on site, COXREELS' obligation hereunder to remedy defects shall be limited to repairing or replacing (at COXREELS' option) FOB COXREELS Factory, any part returned to COXREELS at the risk and cost of Buyer. Defective parts replaced shall become the property of COXREELS.

COXREELS shall only be obligated to make such repair or replacement if the goods have been used by Buyer only in service recommended. COXREELS is not responsible for defects which arise from improper installation, neglect, improper use of or from normal wear and tear.

COXREELS obligation shall be limited by the manufacturer's warranty (and is not further warranted by COXREELS) for all parts procured from others according to published data, specifications or performance information not designed by COXREELS.

COXREELS further agrees to replace or at COXREELS' option to provide a refund of the sales price of any goods that do not conform to applicable specifications or which differ from that agreed to be supplied which non-conformity is discovered and forthwith reported to COXREELS within 30 days after shipment to the Buyer. COXREELS' obligation to replace or refund the purchase price for non-conforming goods shall arise once the Buyer returns such goods FOB COXREELS Factory at the risk and cost of Buyer. Goods replaced by COXREELS shall become property of COXREELS.

COXREELS liability on any claim, whether in contract, tort (including negligence), or otherwise, for any loss or damage arising out of, connected with, or resulting from the manufacture, sale, delivery, resale, repair, replacement or use of any products or services shall in no case exceed the price paid for the product or services or any part thereof which give rise to the claim. In no event shall COXREELS be liable for consequential, special, incidental or other damages, nor shall COXREELS be liable in respect of personal injury or damage to property not the subject matter hereof unless attributable to gross misconduct of COXREELS, which shall mean an act or omission by COXREELS demonstrating reckless disregard of the foreseeable consequences thereof.

COXREELS is not responsible for incorrect choice of models or where products are used in excess of their rated and recommended capacities and design functions or under abnormal conditions. COXREELS assumes no liability for loss of time, damage or injuries to property or persons resulting from the use of COXREELS products. Buyer shall hold COXREELS harmless from all liability, claims, suits and expenses in connection with loss or damage resulting from operation of products or utilization of services, respectively, of COXREELS and shall defend any suit or action which might arise there from in Buyer's name – provided that COXREELS shall have the right to elect to defend any such suit or action for the account of Buyer. The foregoing shall be the exclusive remedies of the Buyer and all persons and entities claiming through the Buyer.

NOTE: All designs, specifications, and dimensional data contained in this publication are subject to change without notice.

**WARNING – APPLICATION**

- ❖ THE PRODUCTS IN THIS INSTALLATION AND MAINTENANCE MANUAL HAVE BEEN TESTED UNDER CONTROLLED LABORATORY CONDITIONS TO MEET SPECIFIC TEST CRITERIA. THESE TESTS ARE NOT INTENDED TO REFLECT THE PERFORMANCE OF THE PRODUCTS OR ANY OTHER MATERIAL IN ANY SPECIFIC APPLICATION, BUT ARE INTENDED TO PROVIDE THE USER WITH APPLICATION GUIDELINES. THE PRODUCTS ARE INTENDED FOR USE BY KNOWLEDGEABLE PERSONS HAVING THE TECHNICAL SKILL NECESSARY TO EVALUATE THEIR SUITABILITY FOR SPECIFIC APPLICATIONS.

**WARNING – USER RESPONSIBILITY**

- ❖ THE USER, THROUGH ITS OWN ANALYSIS AND TESTING, IS SOLELY RESPONSIBLE FOR MAKING THE FINAL SELECTION OF THE SYSTEM AND COMPONENTS AND ASSURING THAT ALL PERFORMANCE, ENDURANCE, MAINTENANCE, SAFETY AND WARNING REQUIREMENTS OF THE APPLICATION ARE MET.
- ❖ TO THE EXTENT THAT COXREELS PROVIDE COMPONENT OR SYSTEM OPTIONS BASED UPON DATA OR SPECIFICATIONS PROVIDED BY THE USER, THE USER IS RESPONSIBLE FOR DETERMINING THAT SUCH DATA AND SPECIFICATIONS ARE SUITABLE AND SUFFICIENT FOR ALL APPLICATIONS AND REASONABLY FORESEEABLE USES OF THE COMPONENTS OR SYSTEM.

**WARNING – SAFETY**

- ❖ READ ALL SAFETY INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING TO INSTALL, OPERATE, OR MAINTAIN THIS PRODUCT. ONLY QUALIFIED PERSONNEL SHOULD UNDERTAKE THE INSTALLATION AND COMMISSIONING OF THIS PRODUCT. FAILURE TO COMPLY WITH INSTRUCTIONS COULD RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE.
- ❖ FAILURE TO FOLLOW RECOMMENDED APPLICATION INFORMATION AND RECOMMENDED PROCEDURES FOR SELECTION, INSTALLATION, CARE, MAINTENANCE AND STORAGE OF REEL ASSEMBLY, SWIVEL, HOSE, COUPLINGS OR HOSE ASSEMBLIES MAY RESULT IN FAILURE TO PERFORM PROPERLY AND MAY RESULT IN DAMAGE TO PROPERTY AND SERIOUS BODILY INJURY.
- ❖ FOLLOW GOOD MAINTENANCE PRACTICES – ESTABLISH A PROGRAM OF INSPECTION, TESTING AND REPLACEMENT OF REEL COMPONENTS, ACCESSORIES AND OR BRACKETS FROM FACTORS INCLUDING:
 - SEVERITY OF APPLICATION, FREQUENCY OF EQUIPMENT USE, AND PAST PERFORMANCE OF REEL COMPONENTS
- ❖ ONLY PROPERLY TRAINED PERSONS SHOULD INSPECT, TEST OR SERVICE REEL AND HOSE/CABLE ASSEMBLIES. PERIODIC UPDATING OF TRAINING IS RECOMMENDED. DOCUMENT MAINTENANCE, INSPECTIONS AND TESTING.
- ❖ **PROP 65 WARNING:** Handling of brass material on this product exposes you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm.
"WASH HANDS AFTER USE"

SAFETY**PRESSURE WARNINGS**

- This equipment should be properly installed before use in accordance with local codes and ordinances.
- The pressure to and from the hose reel should be released and disconnected from the hose reel before any service functions are performed.
- This hose reel must not be used for pressure greater than the rating listed in the COXREELS catalog / website www.coxreels.com.

**OPERATIONAL WARNINGS**

- Exercise care when handling the hose reel during normal operation. Some hose reels have a rotating drum powered by a spring under tension or chain, sprocket and gears.
- Do not use hose different from that for which the reel is intended. Changes in diameter, weight per foot, length of hose or flexibility (Minimum Bend Radius) will affect the operation of the reel.
- Mounting hardware and fasteners should be installed to maintain tightness under vibration and checked periodically to ensure tightness.
- Overhead installation mountings should be such that the reel is not supported solely by bolts in tension. A safety chain, cable, enclosure or netting is strongly recommended to minimize damage and/or possible injury in the event of a mounting failure.

**MAINTENANCE WARNINGS**

- Modification of the equipment may cause excessive wear and will void the warranty. Contact COXREELS regarding changes or modifications of equipment which could affect reliability or safety.
- **DO NOT DISASSEMBLE A SPRING MOTOR FOR ANY REASON!** Serious personal injury could result. Some hose reels are equipped with a spring under tension. Contact COXREELS for assistance.

800-COX-REEL
Toll Free Fax: 800-229-REEL
Email: info@coxreels.com

**SPECIFICATIONS & LISTINGS**

- The identified Series of Hose Reel products within this manual are not certified or listed by any independent certifying or regulatory body.
- This series of hose reels is intended for industrial use and are provided with permanent mounting means, with the exception of the portable reel models.

**PRESSURE & TEMPERATURE RATING**

- All reels covered in this manual with or without hose have specific P.S.I. ratings. (Please refer to the COXREELS catalog, website or contact Customer Service for reel specific data). Reels should not be used at pressures greater than the rating of the hose, swivel, plumbing or overall reel rating.
- Multipurpose hose is installed with tube compounded for maximum oil resistance. Hose can be used for air, water, oil and many other chemical applications.
- Operational temperature ranges vary across the wide range of hose options. (Please refer to the COXREELS catalog, website or contact Customer Service for hose specific data). Hose reels should not be used at temperatures below or above the rating of the hose.
- The operational rating of a reel not equipped with hose is determined by the capacity of the installed hose. The pressure rating of the reel without hose must not be greater than the operational capacity of a reel. (Please refer to the COXREELS catalog, website or contact Customer Service for reel/hose specific data). Variations in the OD of higher rated hose will affect the operational capacity of the reel.

**LABELS & MARKINGS**

Hose Reels with and without hose

- The marking of the hose reel provide with or without hose includes the following
 - The label on the frame includes the COXREELS name and Logo, the product catalog number, the individual product serial number, PSI rating and what type and length of hose intended for use on the reel.
 - The maximum pressure rating for every hose reel supplied without hose is marked on the COXREELS Identification Label. In absence of this information, refer to website, catalog, or customer service. Actual rating is determined by the installed hose and is not to exceed the indicated maximum operational rating. The pressure rating of the hose installed on reels provided without hose must be marked on the label upon installation.

**PERSONAL SAFETY**

- Ensure reel has been properly installed before connecting supply line.
- Before connecting to reel, be certain supply line does not exceed rated pressure of the hose reel or voltage / amperage rating on cable reel.
- Thoroughly review the "Hose Installation" instructions to properly install hose.
- Perform "Operational Check" per instructions to ensure reel is operating properly.
- If a leak should occur after applying pressure to the reel, immediately turn off pressure source and discontinue supply line pressure.



WARNING: Prevent static sparking. When working around flammables, ensure that the hose reel, hose, and equipment are properly grounded.

INSTALLATION



WARNING: READ THESE INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING TO INSTALL, OPERATE, OR MAINTAIN THIS PRODUCT. ONLY QUALIFIED PERSONNEL SHOULD UNDERTAKE THE INSTALLATION AND COMMISSIONING OF THIS PRODUCT. FAILURE TO COMPLY WITH INSTRUCTIONS COULD RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE.



WARNING: REEL SHOULD NOT BE INSTALLED ABOVE 15 FEET MAXIMUM FROM THE FLOOR.

MOUNTING OF REEL

- Reel is designed to be attached by the side bracket provided. A 3/8-16 x 1" long bolt is provided next to the top roller position.
- Align bracket with bottom locating stud inside cabinet and slide into place. Bracket is slotted on the bottom to provide ease of installation. Mounting surface should be designed to provide a proper locating stud for bracket.



NOTE: Ensure you are mounting the correct reel configuration for the cabinet. See left and right configuration above. Improper use of these reels could result in damage.

- Place one hand on top roller to align top bolt position. Securely fasten top bolt to hold in place.

INSTALLATION OF INLET HOSE

- Apply thread sealant to inlet hose and connect to the swivel joint on reel. Note: A swivel type connector is required on supply line.
- **Do Not** over tighten and damage Swivel or threads.



CAUTION: IT IS IMPORTANT TO USE A "FLEXIBLE" INLET HOSE. DO NOT USE SOLID PIPING OR RESTRAIN INLET HOSE AS TO CAUSE ANY SIDE FORCE ON SWIVEL JOINT. THE WARRANTY IS VOID IF NOT PROPERLY INSTALLED.

- Flush some product through the system before connecting inlet hose to the source. Connect end to supply source.
- If reel includes hose (Otherwise, See Installation of Hose), flush some product through system before connecting end fitting, nozzle, or tool.
- Apply thread sealant to outlet hose fitting. Connect end, nozzle, or tool as desired.
- Hose stop adjustment may be required to attain desired location. Loosen (two) hose stop clamp bolts. Move hose stop and tighten bolts. Secure hose in hand while adjusting hose stop. Latch reel to secure if latching option is provided.

OPERATIONAL CHECK



NOTE: Steps 1-3 only apply to reels with latching option.

- Check reel for correct operation by slowly pulling out hose. A clicking noise will be heard after each half revolution of the drum.
- **LATCH** the reel. Pull out the hose and allow it to slightly retract after the first, second or third "click" is heard.
- **UNLATCH** the reel. Slowly pull the hose until the clicking noise stops, and then allow the hose to retract. The hose stop should rest against the roller hose guide.



CAUTION: DO NOT ALLOW HOSE TO RETRACT WITHOUT RESTRAINING RECOIL SPEED. NEVER LET GO OF THE HOSE WHEN REWINDING. NOTE: EZ-COIL™ MODELS ARE DESIGNED TO RETRACT AT A SLOW CONTROLLED SPEED.

- Apply line pressure and inspect for leaks. Periodically check hose for improper wear and swivel for possible leaks.
- Reels are shipped with approximately three pre-wraps of tension. This is adequate for most applications. However, if your application requires more or less tension, see "Spring Tension Adjustment" instructions.
- Lubrication is NOT required.

INSTALLATION OF OUTLET HOSE



NOTE: Before proceeding, ensure that you are installing the proper size, length and type of hose that the reel is rated for. Consult factory if unsure of rating. Damage may occur if wrong hose is installed.

- Securely stabilize the reel.
- Insert the male fitted end of the hose through the cutout in the side of the drum flange.
- The male hose fitting should now be on the outside of the drum. Apply thread sealant, connect hose fitting to the swivel joint and secure the hose rigid with the two hose clamps.
- Wind the hose onto the reel clockwise facing the swivel, for RIGHT hand configurations, OR counterclockwise facing the swivel for LEFT hand configurations.
- When fully wound, pull the hose out approximately three turns of the reel and latch reel in place.
- While reel is in latched position, pull slack hose back and wrap onto reel. This will give an initial pre-load of approximately three turns on the spring.



NOTE: The hose clamps restrain the hose when fully extended, preventing strain between the fittings and swivel joint.



CAREFULLY release the locking ratchet (if so equipped) and **SLOWLY** allow the hose to retract onto the reel.

SPRING TENSION ADJUSTMENT

- Release line pressure prior to making spring adjustments.
- Disconnect inlet hose.
- Pull out approximately 6 feet (2m) of hose and latch the drum (if so equipped).
- Add or subtract one wrap of hose as desired to acquire the proper tension on the reel.



NOTE: Spring tension adjustment is accomplished by adding wraps of hose around the drum (to increase tension) or subtracting wraps of hose (to decrease tension).



CAUTION: Improper tensioning of spring or adding too many pre-wraps may cause damage to spring mechanism. Only authorized personnel should make adjustments.

- Unlatch drum (if so equipped) and check for proper tension. Connect Inlet hose.

SWIVEL SEAL REPLACEMENT

- Remove inlet hose from swivel.
- Remove swivel from reel by unscrewing swivel from shaft. Disconnect hose from swivel.
- Remove retaining ring on swivel; pull out spool shaft from swivel body.
- Replace the seals, lubricate and reassemble swivel.
- Fit hose to swivel then fit swivel to reel. **Do not over-tighten.**
- Reconnect inlet hose and test for leakage.



SPRING CANISTER REPLACEMENT

- Pull out approximately 3 feet (1m) of hose and latch the reel (if so equipped).
- Remove outlet nozzle, gun or tool and hose stop.
- Carefully unlatch the reel and **firmly hold the drum**. Allow the drum to **slowly** unwind until it stops.
- Remove the retaining ring, spacer and swivel unit.
- Remove the two nuts located on the support post side inside the drum cavity. **Do not** attempt to remove the spring canister nuts.
- Pull spring canister off drum and axle shaft.
- Reverse above procedure to re-assemble.
- Re-tension the reel by turning the drum three complete turns clockwise from swivel side for right hand reels, or counterclockwise from swivel side for left hand reels, and latch the drum (if so equipped).
- Feed the hose through the hose guide. Fit hose stop, and then unlatch the drum (if so equipped). Hose stop should sit snugly against the hose guide.



CAUTION: Release supply line pressure to the reel and also the pressure stored in the hose on the reel prior to making any repairs or adjustments to the reel.

TROUBLE SHOOTING GUIDE

TROUBLE	CAUSE	REMEDY
HOSE WILL NOT FULLY RETRACT	a) Outlet nozzle, gun or tool is too heavy. b) Spring is fatigued. c) Field installed hose is too long.	a) Add spring tension. See "Spring Tension Adjustment". b) Add spring tension. See "Spring Tension Adjustment". Replace Spring Canister if required. c) Call local Distributor for correct specified hose length.
HOSE WILL NOT RETRACT AT ALL	Spring has lost all tension or has possibly broken.	a) Adjust Spring Tension b) Replace Spring Canister. See "Spring Canister Replacement".
HOSE TANGLES INSIDE CABINET	Clearance between inside of cabinet and reel allows hose to fall over edge of drum.	Review cabinet design and reduce clearances. Note: Plastic roller at top of reel is provided to act as a hose retainer. Ensure that the reel has been mounted properly.
REEL WILL NOT LATCH (APPLIES IF EQUIPPED WITH LATCH OPTION)	a) Incorrect operation. b) Dog spring or locking cam is broken or worn.	a) Reel latches on first, second, third or fourth "click". After forth "click" it automatically rewinds. b) Replace dog spring or locking cam.
FLUID LEAKS FROM SWIVEL	Swivel seals are damaged or worn.	Replace swivel seals. See "Swivel Seal Replacement". Caution: Be sure leak is not at Hose Fitting!
REEL RETRACTS TOO FAST (EZ-COIL™ MODELS ONLY)	EZ-Coil unit is defective	Replace EZ-Coil unit. Note: When weather is extremely hot, reel will operate slightly faster than under normal conditions. This function is normal.