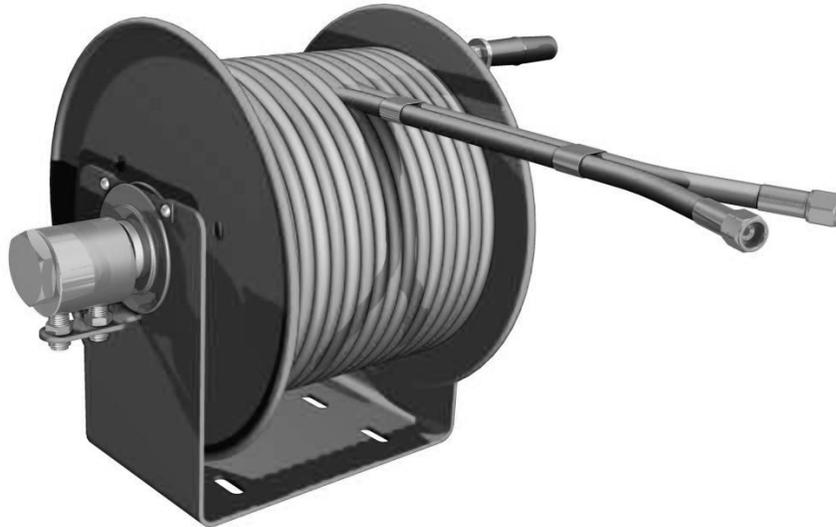




**HAND CRANK HOSE/CABLE REELS:
SERIES: 100W**



COXREELS

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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 point of original shipment, 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.

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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 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 from the hose reel should be 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.
- 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 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 void the warranty. Contact COXREELS regarding changes or modifications of equipment which could affect reliability or safety.



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.



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.
- 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 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 discontinue supply line pressure.



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

INSTALLATION

MOUNT REEL / FASTEN CRANK HANDLE

- To mount reel to a solid structure use 7/16" or M12 bolts, washers, and nuts. Masonry bolts may be used depending on mounting application. Mounting hardware is NOT provided. Mounting patterns will vary depending on model. NOTE: If you choose to permanently mount series CM, you will need four 1/4" screws or nails.
- Fit mounting hardware to ceiling/wall/floor so reel can be fastened into position. Fit reel and tighten all hardware securely.
- Reels are supplied with plastic crank handle uninstalled. Remove handle and hardware from plastic bag and install onto crank arm. Models 1275 and 600-900 will include detachable crank for bevel gear design.
- The series DM portable reels will include a U-shaped handle. Position handle over swaged posts and fasten using hardware provided.

INSTALLATION OF INLET HOSES

- Apply thread sealant to inlet hose and connect to the swivel joint on reel.



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.

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.

- Securely install hose reel prior to installing outlet hose.
- Apply thread sealant to male hose fitting and insert into the drum opening. Note: It is recommended that a swivel type connector be used to ease installation of outlet hose.
- Thread male hose fitting into outlet riser(s) (Refer to FIGURE 1.0). Challenger series 112, 117, CM, DM and SM, outlet will be inside drum area. Note: Outlet riser is removable on 1195 series.
- Using a wrench, firmly hold on to riser fitting while tightening hose connector.
- The Series 100 reel includes a hose clamp. Fasten hose securely to reel with hose clamp provided.

NOTE: The hose clamp restrains the hose when fully extended, preventing strain on the fitting.



CAUTION: FULLY EXTEND AND CHARGE HOSE BEFORE INITIALLY WINDING ON TO REEL. THIS PREVENTS FLATTENING OF HOSE AND EXCESSIVE PRESSURE ON DRUM WHEN HOSE IS FULLY CHARGED DURING OPERATION

OPERATIONAL CHECKS

OPERATIONAL CHECK



CAUTION: ENSURE THAT ALL OPERATION CHECKS HAVE BEEN COMPLETED BEFORE RELEASING FOR USE

- Adjust drag brake. Turn clockwise to add tension and counter-clockwise to decrease tension. See figures 3.0-6.0.
- Check for correct operation by pulling out some of the hose/cable. A slight friction or drag should be noticed. This drag is to prevent backlash when pulling out hose/cable.
- Fit hose to swivel then fit swivel to reel.

SWIVEL SEAL REPLACEMENT

- Remove inlet hose from swivel.
- Remove swivel from reel by unscrewing swivel from reel axle. Disconnect hose from swivel.
- Remove retaining ring on swivel; pull out spool from body.
- Fit hose to swivel then fit swivel to reel.



DO NOT OVER TIGHTEN!

- Reconnect inlet hose and test for leakage.

NOTE: Swivels designs vary depending on the reel model. Refer to repair procedure shipped with individual seal replacement kits or consult factory.



CAUTION: Release line pressure prior to making repairs or adjustments to reel.



TROUBLE SHOOTING GUIDE

TROUBLE	CAUSE	REMEDY
HOSE/CABLE WILL NOT FULLY FIT ON TO DRUM OF REEL	<ul style="list-style-type: none"> a) Hose/cable is longer than specified. b) Outside diameter of hose is larger than specification. c) Hose/cable was not hand guided onto reel and wound up evenly on drum. 	<ul style="list-style-type: none"> a) Cut down hose/cable to meet reels specified capacity. b) Replace hose with a hose that meets the specified maximum outside diameter requirements. c) Hand guide hose/cable on to drum to wrap evenly as it is wound on to the reel.
REEL KEEPS TURNING WHEN OPERATOR STOPS PULLING OUT HOSE/CABLE.	Tension drag brake is too loose causing hose/cable backlash.	Adjust tension drag brake by turning fastener clockwise.
NO ELECTRICAL CURRENT AT OUTPUT END OF CABLE. (1125WC SERIES ONLY)	<ul style="list-style-type: none"> a) Cable is severed. b) Slip ring brushes are worn. 	<ul style="list-style-type: none"> a) Replace cable. b) Replace slip ring brushes. Note: Ensure current does not exceed rated amperage.
DRUM OF REEL IS CRUSHED OR DAMAGED.	Hose was not charged when initially installed on to reel.	Replace damaged drum. Contact factory. Install hose per instructions.
FLUID PATH (PLUMBING AND/OR SWIVEL) IS LEAKING OR DAMAGED.	<ul style="list-style-type: none"> a) Maximum pressure rating for reel has been exceeded. b) Application is not compatible with plumbing and/or swivel seal materials. 	<ul style="list-style-type: none"> a) Replace or repair damaged components. Consult factory. Check maximum pressure rating of reel. b) Contact factory to determine chemical compatibility or environmental issues (i.e. temperature rating).
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!