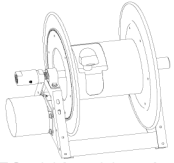
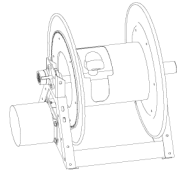


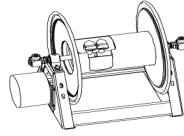
# INSTALLATION AND MAINTENANCE MANUAL



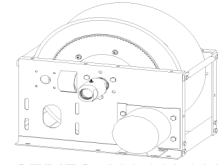
SERIES: 1125, 1175-6, 1185, 1195



SERIES: 1175-8



SERIES: 1275



SERIES: 600,800,900

**⚠ 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.**

## ▪ PERSONAL SAFETY

- 1.) Ensure reel is properly installed before connecting supply line.
- 2.) Before connecting to reel, be certain supply line does not exceed rated pressure of the hose reel or rated amperage of cable reel.
- 3.) Thoroughly review the "Hose Installation" instructions to properly install hose.
- 4.) If a leak should occur after applying pressure to the reel, immediately discontinue supply line pressure.
- 5.) Be aware of other persons and machinery in work area
- 6.) Do not wear loose fitting clothing when using reel
- 7.) Routinely check for loose, frayed, or broken wires before operating.
- 8.) **Warning:** Prevent static sparking when working with flammables.

## ▪ MOUNTING OF REEL

- 1.) To mount reel to a solid structure you will need 7/16" 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.
- 2.) Fit mounting hardware to ceiling/wall/floor so reel can be fastened into position. Fit reel and tighten all hardware securely.

## ▪ INSTALLATION OF INLET HOSE

- 1.) 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.**

- 2.) 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.

- 1.) 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.
- 2.) Thread male hose fitting into outlet riser(s). Refer to figure 1.0 for single and figure 2.0 for double outlets. Note: Outlet riser is removable on 1195 series.
- 3.) Using a wrench, firmly hold on to riser fitting while tightening hose connector.

**⚠ 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.**

- 4.) Wind hose on to reel. The operator should hand guide the hose on to reel to achieve maximum capacity.

- 5.) Flush fluid through system. Inspect hose, connections, and swivel for leaks.

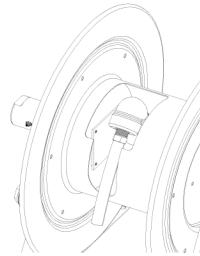


Fig 1.0

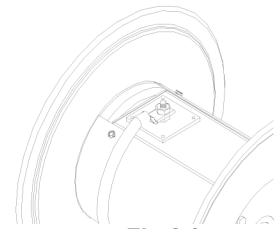


Fig 2.0

## ▪ INSTALLATION OF CABLE (1125WC SERIES)

**NOTE:** Before proceeding, ensure that you are installing the proper size, length and type of cable that the reel is rated for. Refer to label to determine amperage rating.

**⚠ CAUTION: ENSURE THAT THE CABLE CONNECTOR IS SECURELY CRIMPED, SOLDERED, OR CLAMPED TO CABLE.**

- 1.) Place connector over stud (fig 2.0) and install brass nut (supplied).
- 2.) Using a wrench, firmly hold onto the nut under the connector while tightening the outer nut.
- 3.) Connect the supply line in the same manner.

## ▪ HOOK-UP ELECTRICAL MOTOR

**⚠ CAUTION: REMOVE ALL ELECTRICAL POWER WHEN WIRING. DO NOT HOT WIRE. OBSERVE ALL APPLICABLE NEC, OSHA, AND LOCAL CODES.**

- 1.) Ensure motor location is conducive to mounting or operating requirements. Field modifications are not recommended.
- 2.) Ensure power supply and motor voltage ratings are compatible. Refer to figures 3.0, 4.0, and 5.0 for wiring diagrams.
- 3.) Install switch, solenoid, circuit breaker, etc. as required. Consult factory for optional components.
- 4.) On 600 and 800 Series, a tension brake is provided. See figure 9.0 on next page. Adjust clockwise to add tension and counter-clockwise to decrease tension. A slight drag should exist.
- 5.) Apply power, and inspect reel to determine proper operation.

▪ **HOOK-UP AIR MOTOR**

**⚠ CAUTION: DO NOT EXCEED 100 PSI MOTOR INLET PRESSURE. USE AN FRL OR CONTROL VALVE (IN LINE) TO ADJUST SPEED.**

- 1.) A suitable sized filter/regulator/lubricator must be installed in the compressed air line within 3-6 ft. from the motor.
- 2.) Use pipes that are the same size as the motor ports for lengths up to 6 ft. from the main line and pipes that are larger for lengths that are longer than 6 ft. Remove plastic plugs from two ports in motor and follow steps 3 or 4 for installation.
- 3.) A muffler (provided) must be connected to the outlet port on single rotation applications.
- 4.) When motor is going to be driven in both directions, a 4-way valve (not included) may be used by being connected to both ports of the motor. Muffler must then be connected to the air outlet pipe or valve port.
- 5.) Do not use thread tape to seal pipe threads. Use only the correct pipe sealant on the threads.
- 6.) This motor requires LUBRICATION. Use GAST lubricating oil part number UK5220 or equivalent. Fill reservoir to correct level.
- 7.) Apply air pressure, and inspect reel to determine proper operation.

▪ **SWIVEL SEAL REPLACEMENT**

- 1.) Remove inlet hose from swivel.
- 2.) Remove swivel from reel by unscrewing swivel from shaft. Disconnect hose from swivel.
- 3.) Remove retaining ring on swivel; pull out shaft from body.
- 4.) Replace the seals, lubricate and reassemble swivel.
- 5.) Fit hose to swivel then fit swivel to reel. **Do not over-tighten.**
- 6.) 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 any repairs or adjustments to the reel.**

▪ **CHAIN REPLACEMENT (1175-1195,600-900 Only)**

- 1.) Remove motor as instructed. See "Motor Replacement".
- 2.) Remove chain master-link.
- 3.) Install new chain. Adjust chain tension and install motor as instructed. See "Motor Replacement".

▪ **MOTOR REPLACEMENT**

**⚠ CAUTION: Before replacing motor, remove electrical or fluid pressure from reel.**

- 1.) Disconnect wiring/fluid line pressure from motor.
- 2.) Remove bolts securing motor and/or bracket to reel. See figures 6.0 through 8.0 depending on reel model.
- 3.) Install replacement motor. Align gears or chain/sprocket depending on reel model.

Note: 1125/1275 series are direct gear driven and 1175/600-900 series is chain and sprocket driven.

- 4.) If gear driven reel, adjust motor into location and secure in position with best gear alignment. Noise level is noticeably higher when gear is not fully engaged.

Note: Improperly engaged gears will reduce gear life.

- 5.) If chain driven reel, adjust tension on chain to allow between ¼ to ½" play in chain.

Note: Over-tensioning of chain will reduce motor life.

▪ **GEAR REPLACEMENT (1125/1275 Series Only)**

- 1.) Remove motor as instructed above.
- 2.) Remove gear from shaft on motor by loosening set screws.
- 3.) Install new gear on to shaft. Install motor as described above.

▪ **SLIP RING BRUSH REPLACEMENT (1125WC SERIES)**

- 1.) Remove cable completely from drum of reel.
- 2.) Remove access panel on drum by removing four screws.
- 3.) Remove brush retaining nut to access worn brushes.
- 4.) Replace with new copper brushes.
- 5.) Reverse above procedure to re-assemble reel.

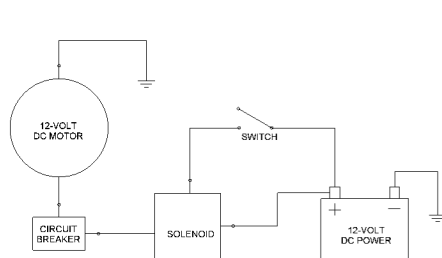


Fig 3.0 "E/ED" Motor Diagram Single Pole Single Throw

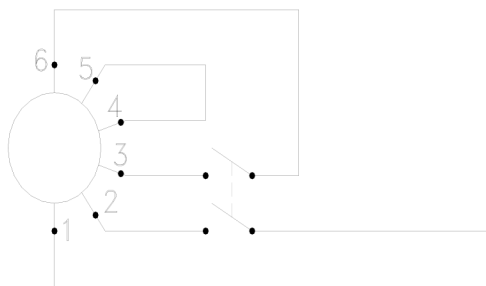


Fig 4.0 "EA" Motor Diagram Double Pole Single Throw

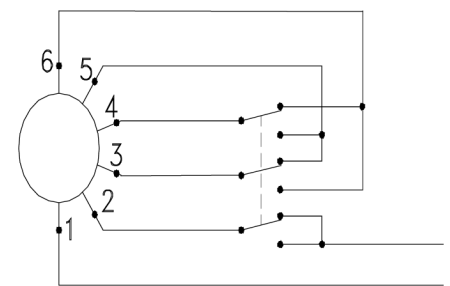


Fig 5.0 "EA" Motor Diagram Triple Pole Single Throw

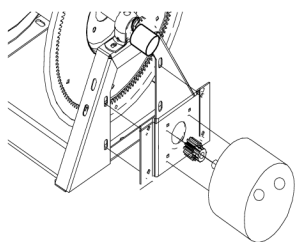


Fig 6.0 1125/1275 Series

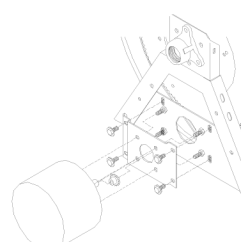


Fig 7.0 1175-1195 Series

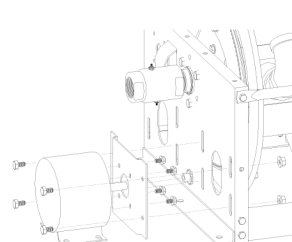


Fig 8.0 600-900 Series

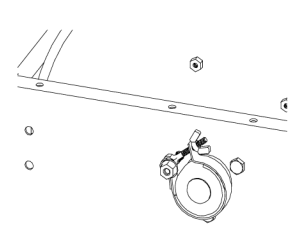


Fig 9.0 600/800 Series Tension Brake

## TROUBLE SHOOTING GUIDE

TROUBLE	CAUSE	REMEDY
HOSE/CABLE WILL NOT FULLY FIT ON TO DRUM OF REEL	<ul style="list-style-type: none"> <li>a) Hose/cable is longer than specified.</li> <li>b) Outside diameter of hose is larger than specification.</li> <li>c) Hose/cable was not hand guided onto reel and wound up evenly on drum.</li> </ul>	<ul style="list-style-type: none"> <li>a) Cut down hose/cable to meet reels specified capacity.</li> <li>b) Replace hose with a hose that meets the specified maximum outside diameter requirements.</li> <li>c) Hand guide hose/cable on to drum as it is wound on to the reel.</li> </ul>
IT IS VERY DIFFICULT TO PULL HOSE OFF REEL ON 115Vac REEL	Wiring for motor is reversed.	Refer to wiring diagram and correct motor wiring.
NO ELECTRICAL CURRENT AT OUTPUT END OF CABLE. (1125WC SERIES ONLY)	<ul style="list-style-type: none"> <li>a) Cable is severed.</li> <li>b) Slip ring brushes are worn.</li> </ul>	<ul style="list-style-type: none"> <li>a) Replace cable.</li> <li>b) Replace slip ring brushes.</li> </ul> <p>Note: Ensure current does not exceed rated amperage.</p>
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"> <li>a) Maximum pressure rating for reel has been exceeded.</li> <li>b) Application is not compatible with plumbing and/or swivel seal materials.</li> </ul>	<ul style="list-style-type: none"> <li>a) Replace or repair damaged components. Consult factory. Check maximum pressure rating of reel.</li> <li>b) Contact factory to determine chemical compatibility or environmental issues (i.e. temperature rating).</li> </ul>
FLUID LEAKS FROM SWIVEL	Swivel seals are damaged or worn.	Replace swivel seals. See "Swivel Seal Replacement". <b>Caution:</b> Be sure leak is not at Hose Fitting!