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NOTE: FAILURE TO FOLLOW THESE INSTRUCTIONS MAY VOID THE WARRANTY.

Unpacking and mounting the reel

1. Inspect the reel for shipping damage.
2. Check the wiring kit against the parts list.
3. Fasten the reel frame securely to a level surface.
4. Turn the reel discs by hand. The spool should turn freely. If it binds, adjust the self-aligning bearings.

Connecting the inlet

1. Threaded-type swivel joint inlets must be connected to the fluid supply by a **flexible connector** or the Hannay Warranty will be void.
2. Victaulic-type inlet connections must be carefully aligned. Two victaulic connections, correctly installed, will normally allow adequate flexibility for smooth rotation.
3. Install a union fitting as near as possible to the swivel joint so the joint can be easily removed for servicing.

Wiring the reel

1. Certain accessories have been provided to wire your reel (see following pages). You will, however, need to provide a few additional materials:
 - Insulated Cable, #6 AWG (or larger, see note)
 - Various Insulated Ring Terminal and Wire Nut Connectors (installation specific)
 - Circuit Breaker (see chart for amperage ratings)
 - Ground Strap for Reel
 - Vapor-proof Conduit (optional)
2. Follow the appropriate wiring diagram on the following pages to make the necessary connections. Check all ground connections before using motor.

NOTE: #6 AWG wire should be sufficient in most installations to prevent significant voltage drop. However, you may choose to use heavier #4 AWG if the total circuit length is unusually long.
3. The solenoid (12 or 24 V only) should be mounted as close as possible to the battery and/or starter. It should be mounted vertically and grounded securely. A circuit breaker **MUST** be wired into the circuit between the solenoid and battery.
4. The motor rotation can be reversed by interchanging the motor leads.
5. If you choose to use vapor-proof conduit between the solenoid and motor, then seal the open end of the conduit with a sealing compound and wrap with electrical tape.
6. A ground strap must be securely fastened between the reel frame and a grounded part of the vehicle body. The motor ground lead must be directly bonded

to the chassis. Do NOT rely on the reel structure for grounding. For explosion proof applications, the ground lead must be run to, and bonded to, the chassis in a non hazardous location such as the engine compartment of the vehicle.

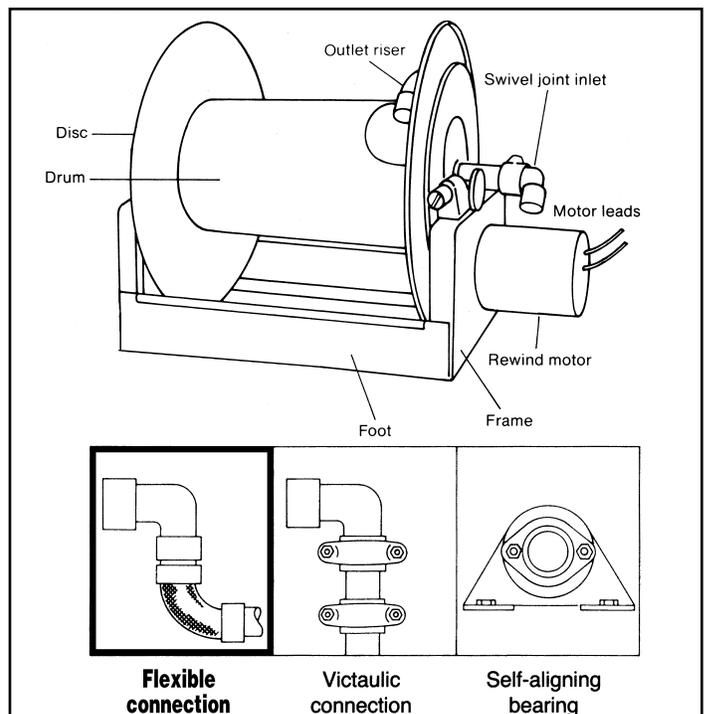
7. Tape all connections and check each one to make sure they are secure.

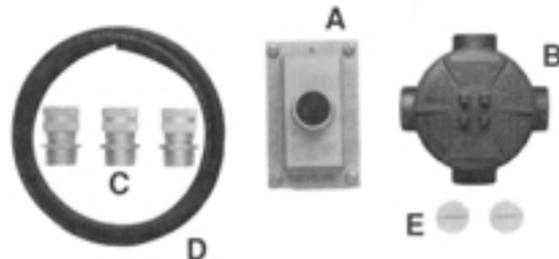
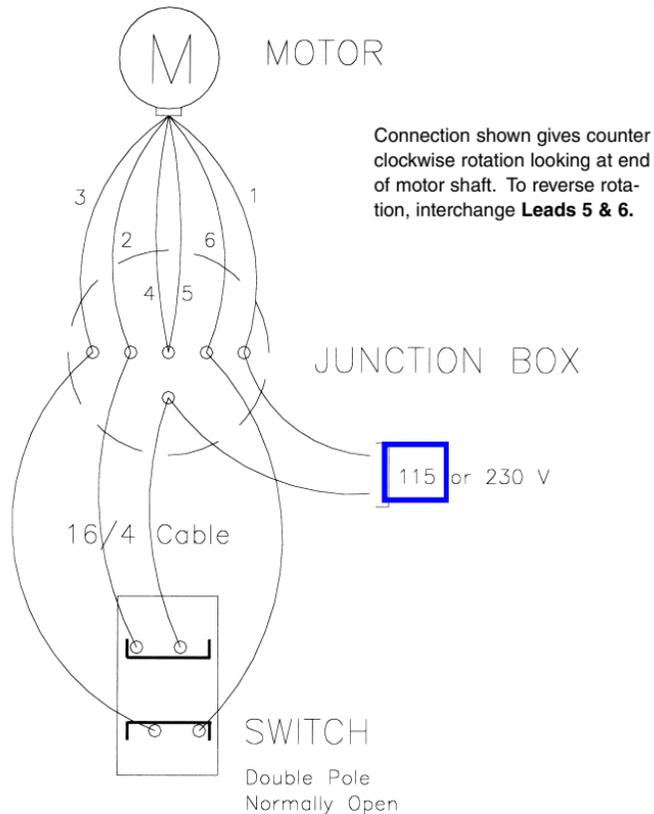
Connecting the hose

1. Do NOT attach the hose until the reel has been installed and wired.
2. Charge the hose *before* winding it on the reel. This will protect the drum from excessive pressure.
3. *If reel has flanged outlet riser:* Remove the entire riser from the hub. Be careful not to damage the gasket. Apply thread compound to all threads and bushings. Thread the hose onto the outlet riser. Replace the riser and tighten securely, making sure the gasket is seated properly.

If reel does NOT have flanged riser: The riser can't be removed, so you will need to thread the hose directly onto the riser.
4. Wind the hose onto the reel (either electrically or with the hand crank).

NOTE: Hannay Reels electric rewind motors are designed to be operated by repeatedly pressing and releasing the rewind switch thus controlling the rewind speed of the reel.





Accessories Supplied:

- A) 1 - Explosion-Proof Push-Button Switch
- B) 1 - Explosion-Proof Junction Box
- C) 3 - Strain Relief Connectors (3/4")
- D) 1 - Six foot length 16/4 SO Cable
- E) 2 - 3/4" Plugs

NOTE: No electrical accessories are supplied with "E" and "EP" 115V/230V reels.

115 or 230 Volt AC "E", "EP", or "EPJ" Reels

IMPORTANT WIRING INSTRUCTIONS

FOR CIRCUIT BREAKERS USED WITH HANNAY REEL MOTORS

DESCRIPTION OF CIRCUIT BREAKERS

The SDLM Circuit Breaker is normally used with Hannay Reels for protection of the rewind motor. This type of breaker must be manually reset by pressing firmly on the red push button if it is tripped for any reason. This insures that the problem will be corrected before the breaker is reset.

WIRING PROCEDURES

Refer to the accompanying instructions and wiring diagrams.

MOUNTING

The circuit breaker should be firmly mounted using the two mounting holes provided. The mounting position should be well removed from any abnormal sources of heat such as an exhaust manifold or radiator. To use the SDLM breaker satisfactorily, a small mounting bracket, available from us as part #9917.0024, should be used so that the reset button will be easily accessible when needed.

AMPERAGE RATING

The application and motor will determine what amperage breaker is required. Under actual operating conditions the breaker should be of such a rating that when the hose reel motor is held in a stalled condition the breaker will open the circuit in no more than 30 seconds. Allowing the circuit to remain closed for a longer period of time would begin to endanger other components in the system.

The following ratings apply to DC motors used on Hannay Reels:

Motor Number(s)	Size of Leads	Voltage	Circuit Breaker	Hannay Part Number
239	10 AWG	12 volt	25 Amp	9917.0023
227	10 AWG	12 volt	40 Amp	9917.0020
001, 007, 038, 102, 144	8 AWG	12 volt	50 Amp	9917.0021
043, 103, 139	6 AWG	12 volt	70 Amp	9917.0022
340	10 AWG	24 volt	25 Amp	9917.0023
123	8 AWG	24 volt	25 Amp	9917.0023

CAUTION: These circuit breakers are not suitable for use with AC motors.

FOR EPJ20-30-31 w/115VAC/1/60 hz. electricals, size of motor is 1/2 HP Motor. Hannay recommends at least a 5 AMP breaker.