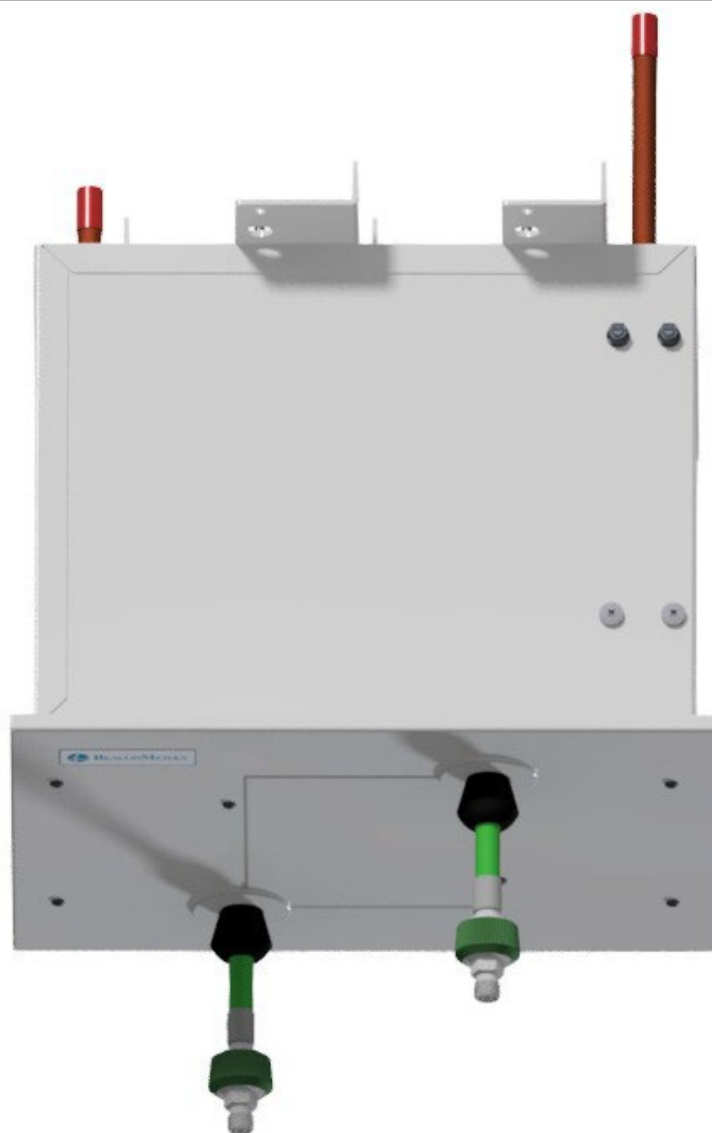


Installation, Operation, Maintenance Instructions



Medical Hose Reel

Part number 4107 9028 58.02

May 10, 2024

U.S. Design Patent No. D734,854



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Installation, Operation, Maintenance Instructions

Medical Hose Reel

This unit is purchased from: _____

Date purchased: _____

Model number: _____

Serial number: _____

Option(s) included: _____

Any information, service or spare parts requests should include the machine serial number and be directed to:

BeaconMedæs USA
1059 Paragon Way
Rock Hill, SC 29730
United States
Phone: (803) 817- 5600
Fax: (803) 817- 5750
www.beaconmedaes.com

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Medical Hose Reel

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Revision History

Revision	Description	Date
00	Initial release	November 9, 2020
01	Service Instructions	March 9, 2022
02	Removed Section 8: Replacement Components	May 10, 2024

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Definition of Statements

Statements in this manual preceded by the following words are of special significance.

⚠ WARNING: Means there is a possibility of injury or death to yourself or others.

⚠ CAUTION: Means there is a possibility of damage to the unit or other property.

NOTE: Indicates points of particular interest for more efficient and convenient operation.



WARNING:

Keep all parts and tools free of oil, grease, and dirt. Failure to do so may result in fire.

Packing list

Description	Single Service Qty	Double Service Qty
Hose Reel - Complete Assembly with Rough-in Box	1	1
Cover plate assembly	1	1
Grommet half	2	4
Retaining ring	1	2
Panel plug	1	-
Screw, 6-32 x 1 LG	4	4
Tie plate (for gang mounting)	-	1
Screw, 1/4-20 x 5/8 LG (for gang mounting)	-	4
Nut, 1/4-20 (for gang mounting)	-	4
Screw, 6-32 x 1/4 LG (for gang mounting)	-	4
Speed nut, 6-32 (for gang mounting)	-	4

1.0 Introduction

Location, sequence of services and orientation of Hose Reels are specified on building plans. Be certain installation is in agreement with these specifications. All piping, testing, and verification of services should conform to National Fire Protection Association (NFPA) 99, "Standard for Health Care Facilities" and local codes where applicable. Reel mounting box must be installed before ceiling is finished.

Tools and Supplies Needed for Hose Reel Installation

- Wrenches:
11/16", 3/4", 13/16", 7/8" AND 1/2"
socket
- Phillips screwdriver
- Copper tube silver brazing equipment

Before You Begin

1. Notify facility you will be installing unit into gas piping system.
2. Verify interruption/connection into gas piping system has been authorized

2.0 Unpacking Hose Reel

1. Carefully open shipping carton and remove contents. Verify complete contents per packing list.

NOTE:

The following steps in this section detail how to remove the reel assembly from the mounting box (rough-in box). Installing the mounting box first may be easier, especially if the installation is performed by only one person. If the installation is performed by two people, it may not be

2. Remove dust cover from mounting box (Figure 1). Save for later use.

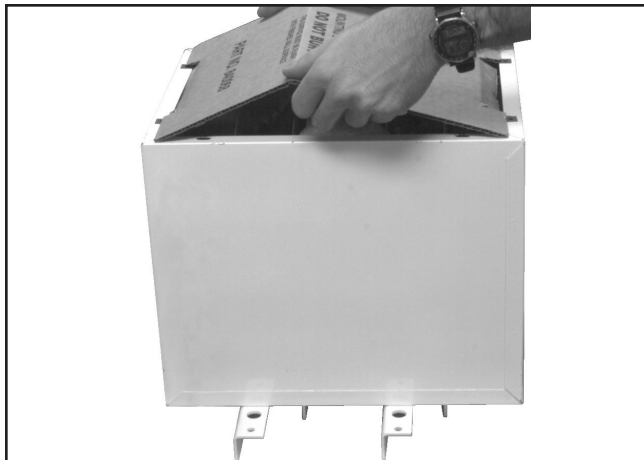


Figure 1

3. Remove two hex head anchor bolts and washers holding reel assembly to mounting box (Figure 2).
4. Remove two acorn nuts from guide rods (Figure 2).

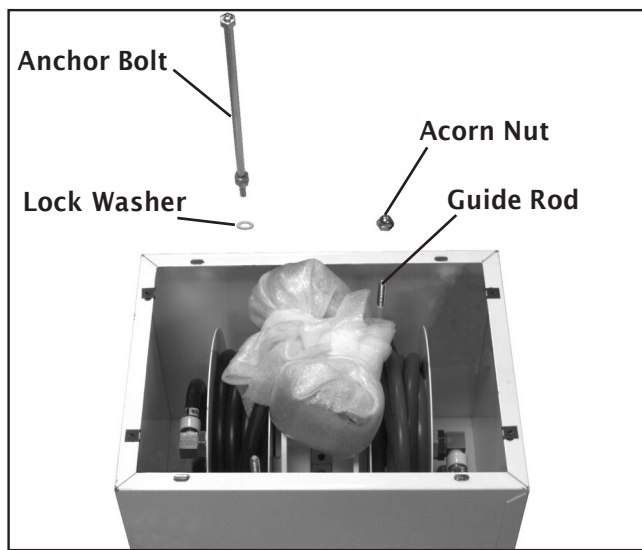


Figure 2

5. Lift reel assembly out of mounting box, sliding it up guide rods (Figure 3).



Figure 3

6. Reinstall anchor bolts with washers and acorn nuts on ends of guide rods in mounting box (Figure 4).

Medical Hose Reel

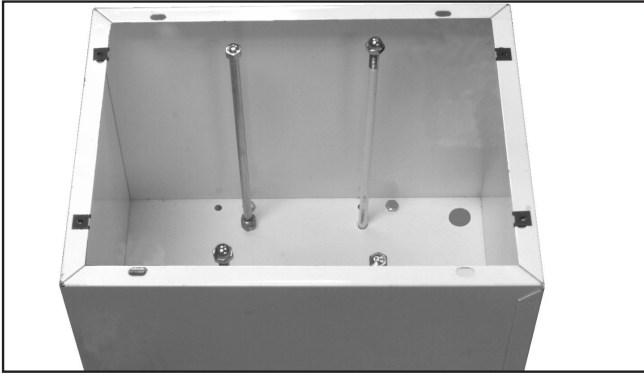


Figure 4

7. Place reel assembly and cover plate back into shipping carton. Close carton and store in a protected location until time to install.

3.0 Mounting Box Installation

1. Construct rigid framework to support mounting box. Framework must place bottom edge of box flush with finished ceiling line (Figure 5). Figure 6 shows required rough ceiling openings and single box dimensions. Figure 7 shows required dimensions for gang mounting of boxes. This is important for proper alignment of cover plates when gang mounting several hose reel assemblies.

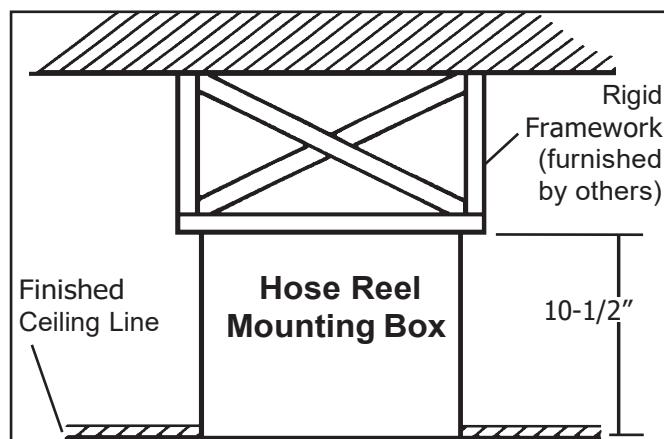


Figure 5

2. Orient mounting boxes to ensure gas service inlet tubes agree with building plans.

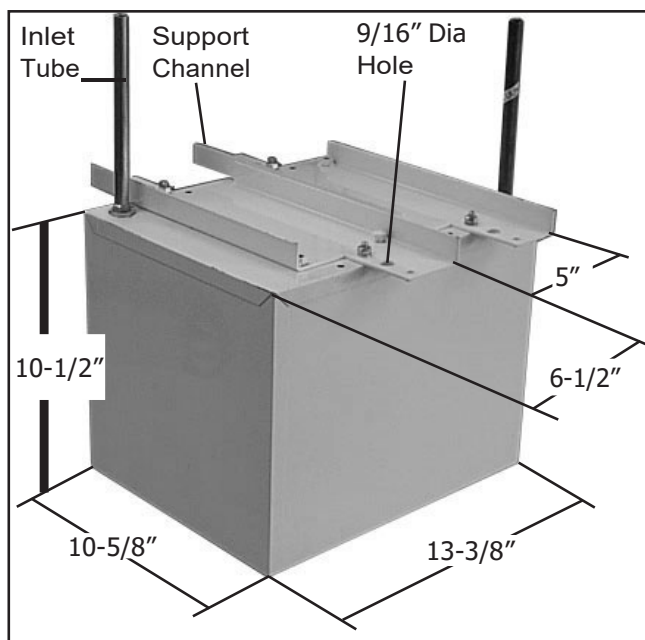


Figure 6

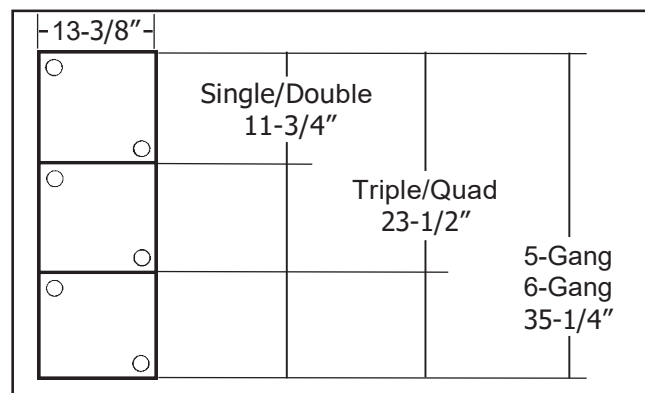


Figure 7

3. If gang mounting boxes, join support channels of ganged mounting boxes together as shown using 1/4-20 x 5/8 bolts, lockwashers, and nuts provided (Figure 8).

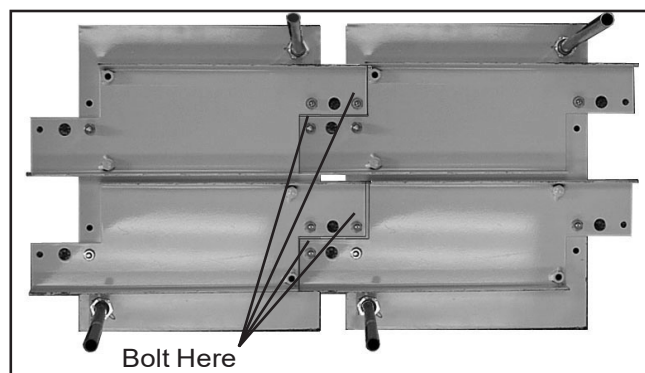


Figure 8

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4. If gang mounting boxes, install (4) speed nuts onto mounting box as shown (Figure 9). Place tie plate onto mounting box as shown in Figure 10 and secure using (4) 6-32 x 1/4" screws provided.

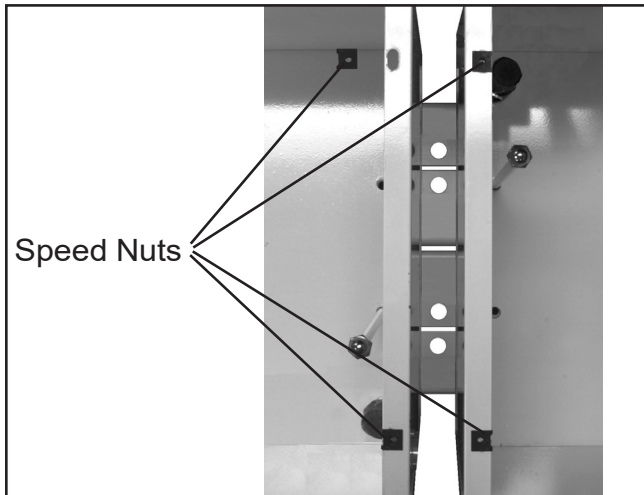


Figure 9

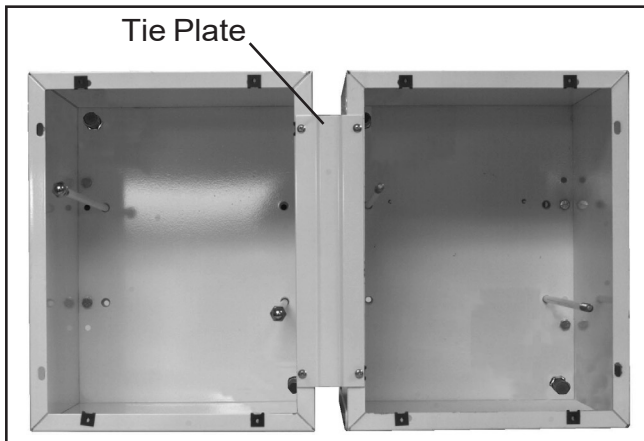


Figure 10

5. Securely anchor mounting box(es) to framework installed in Step 1 of this section. Make certain box(es) are correctly oriented.
6. Connect system piping drops to corresponding copper inlet tubes.

⚠ WARNING:

It is the installer's responsibility to verify all gas piping systems are correctly connected and tested per NFPA 99 and applicable local codes.

7. Securely install test caps on vacuum and WAGD DISS fitting of inlet tube. Pressure gas services do not require test caps.

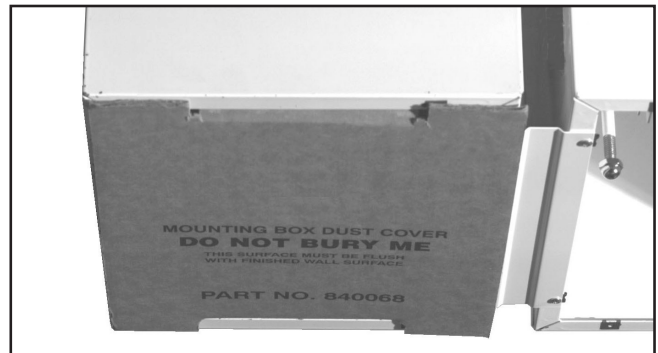


Figure 11

8. Complete initial pressure tests for all pressure gas, vacuum and WAGD services per NFPA-99.
9. Install dust cover(s) on mounting box(es) to prevent dust and debris from entering box during finishing of ceiling (Figure 11).
10. Retain these instructions for use when installing reel assembly and cover plate after ceiling has been finished.

4.0 Hose Reel Installation

NOTE:

The following steps in this section detail how to reinstall the reel assembly if it was previously removed from the mounting box.

⚠ WARNING:

It is the installer's responsibility to verify all gas piping systems are correctly connected and tested per NFPA 99 and applicable local codes.

1. Remove dust cover from mounting box and discard.
2. Remove acorn nuts from ends of guide rods, and anchor bolts and washers from mounting box.
3. Orient reel assembly to ensure gas labeling on reel assembly matches DISS fittings inside mounting box.
4. Align diagonal holes on base of reel assembly with guide rods, and slide reel assembly up guide rods. Hold reel assembly in place while installing two acorn nuts on end of each guide rod (Figure 12). Allow reel assembly to rest on acorn nuts (Figure 13).

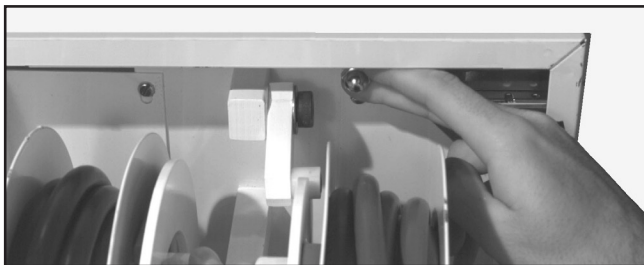


Figure 12



Figure 13

5. Push reel assembly up into mounting box until it rests against top of box. Secure reel assembly to top of mounting box using two anchor bolts with lockwashers (Figure 14).

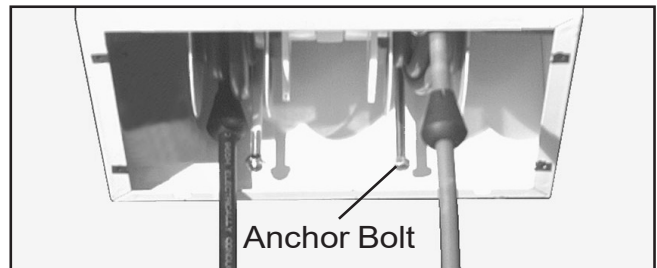


Figure 14

6. Verify gas service label on hose assembly matches gas indexing of DISS valve. Connect hoses (Figure 15).



Figure 15

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7. Perform Standing Pressure Test for Positive Pressure Medical Gas Piping as outlined in NFPA-99 at 20% above normal pipeline pressure. Perform Standing Vacuum Test for Vacuum System as Outlined in NFPA-99 on all Vacuum and WAGD services.

⚠ CAUTION:

Pressurization of vacuum or WAGD finish assemblies may damage swivel seals. Perform vacuum tests on these assemblies as outlined in NFPA- 99, Standing Vacuum test for Vacuum System.

5.0 Cover Plate Installation

NOTE:

Cover plates require some assembly. Cover plate inner panel and hose guide grommets must be installed before mounting cover plate.

1. Remove cover plate assembly from shipping carton. Remove two screws holding inner panel in center of cover plate (Figure 16).

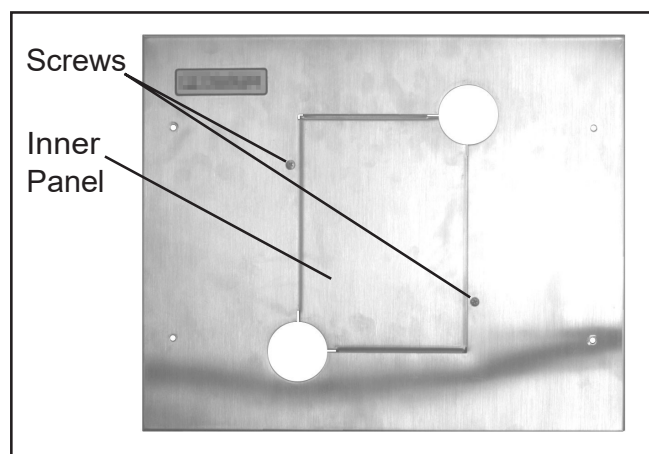


Figure 16

2. Extend hose(s) several feet from mounting box.
3. Route each hose-end valve and adjustment stop on hose assembly through opening in cover plate and into circular openings on each side of cover plate (Figure 17). Be certain cover plate is oriented properly to mounting box.

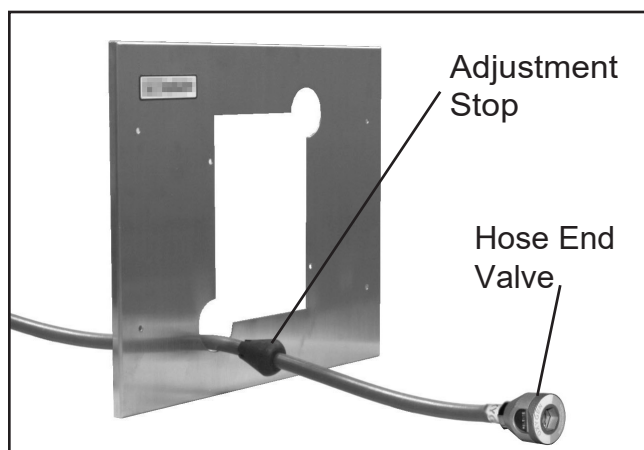


Figure 17

4. Reinstall inner panel back onto cover plate.
5. Remove two-piece hose guide grommet and retaining ring from plastic shipping bag.
6. Install hose guide grommet(s) from front of cover plate and secure to cover plate assembly using retaining ring(s) (Figure 18).

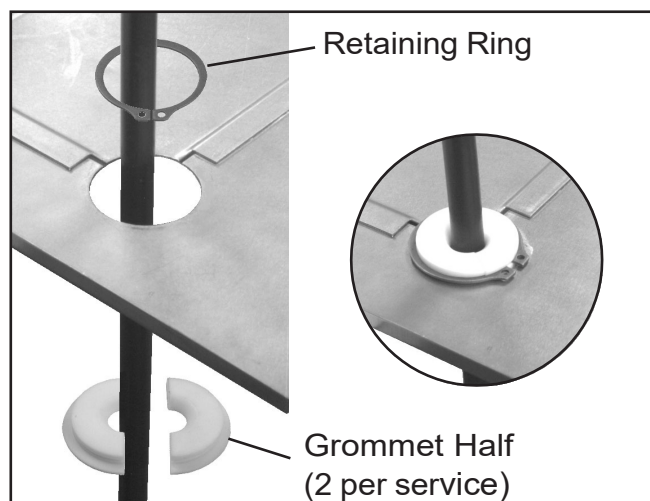


Figure 18

7. Place plastic panel plug over unused hole in cover plate assembly if applicable.

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8. Slide cover plate assembly up hose(s) to mounting box. Be certain hoses are hanging straight down and not looped around guide rods or anchor bolts. Fasten cover plate assembly to mounting box using (4) 6-32 x 1 screws provided (Figure 19).

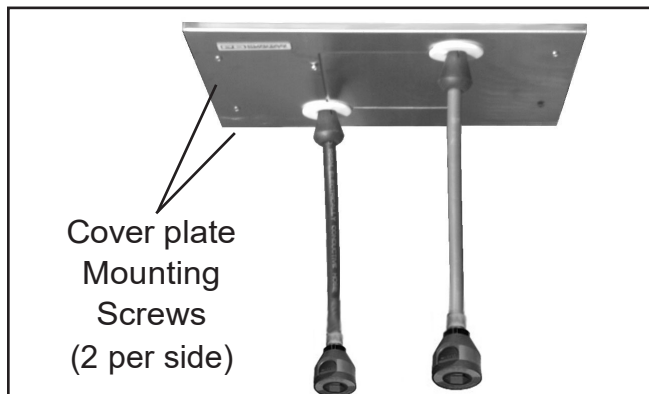


Figure 19

9. Adjust hose length per operating instructions.

⚠ WARNING:

It is the installer's responsibility to verify all gas piping systems are correctly connected and tested per NFPA 99 and applicable local codes.

6.0 Operating Instructions

To Extend Hose

Pull hose out slightly past desired length and allow it to slowly retract until reel catches and holds.

To Retract Hose

Pull hose out a few inches to disengage reel and let it retract. Hold onto hose to control rate of ascent.

To Adjust Hose Hanging Length

Extend hose. Slide stop up or down hose until desired hanging length is achieved.

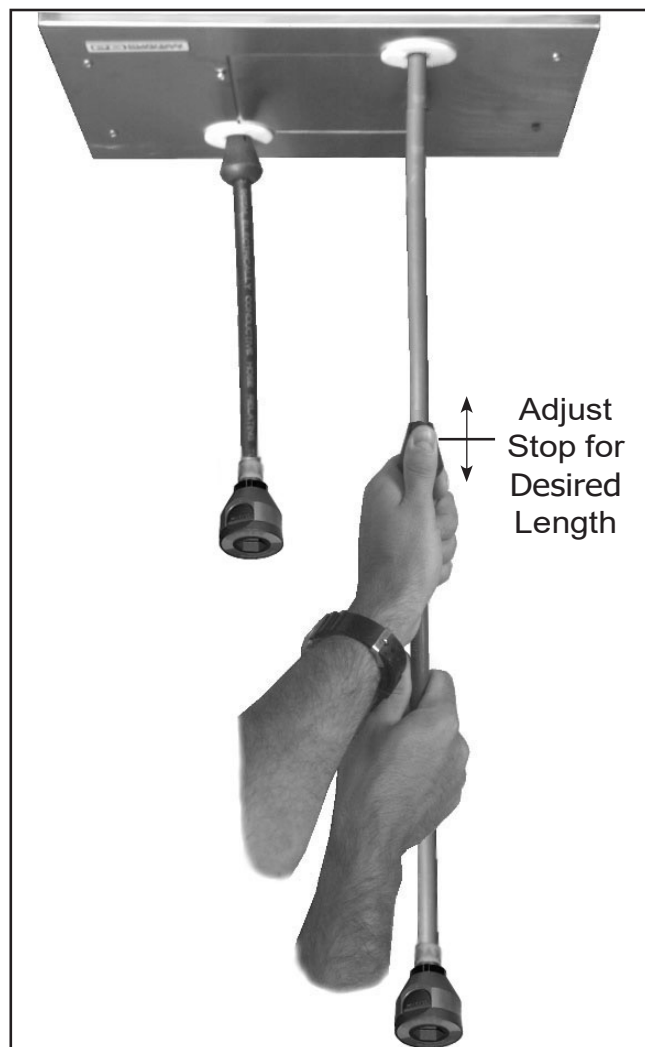


Figure 20

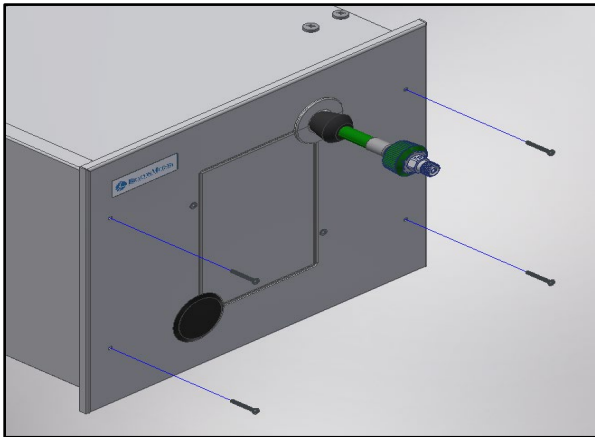
7.0 Service Instructions

Troubleshooting

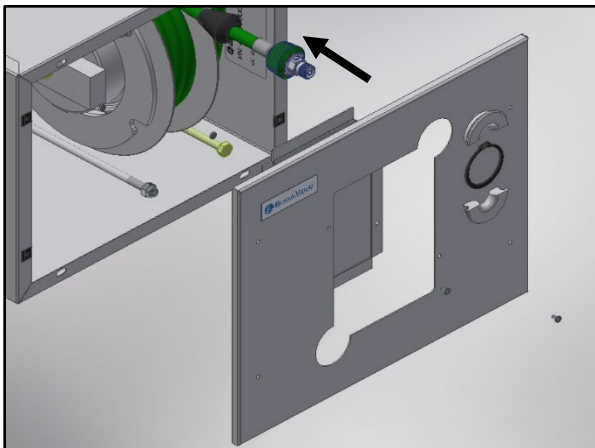
If the hose is not retracting properly/fully or appears not to have any spring resistance when extending the hose, see below:

To Set Desired Retracting Force

Remove the x4 screws with a Phillips head screwdriver on the front panel of the hose reel assembly.

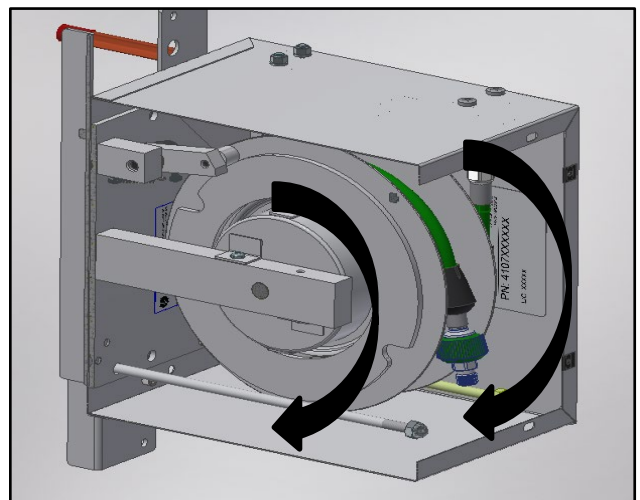
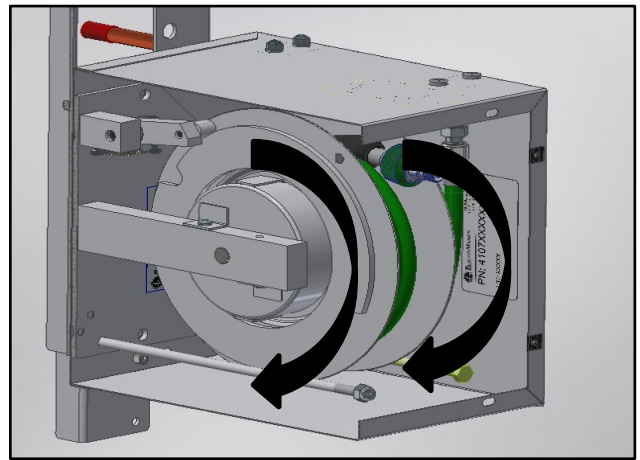


Remove the front panel, upper grommet, and snap ring to allow for the hose to fully retract back towards the reel.



To Set Desired Retracting Force Cont'd

Lay the hose end into the reel and rotate the hose and reel one full turn towards the spring tension. If the hose does not reel back completely or seems to reel back too slow for your application, you may increase the number of turns one at a time. Test the reel back speed after each adjustment.



Pull the hose out until it catches, then follow steps from Section 5 to reassemble the cover plate.



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