



# Midwest Hose & Specialty, Inc.

## Quality Policy

Midwest Hose & Specialty, Inc. will meet or exceed the expected requirements of our customers by providing the finest quality products and service. We will strive for continual improvement and meet our quality objectives as we become one of the foremost suppliers of Hose Assemblies for the Oil and Gas Industry.

## Midwest Hose Assembly Procedure

Thank you and congratulations on your purchase of Lay Flat Hose Assemblies from Midwest Hose & Specialty. Included with your purchase is this assembly guide, an Allen wrench, testing, and recommended practices regarding the care of Lay Flat hose. This guide will assist you in the proper assembly technique for our Lay Flat hose and associated fittings, ensuring the maximum in safety and function from your hose assembly purchase. We hope to exceed your product and service expectations and look forward to serving you in the future. Please feel free to contact us by any of the following methods:

By Phone: 800-375-2358

By Email: [sales@midwesthose.com](mailto:sales@midwesthose.com)

By Mail: 3312 S. I-35 Service Rd.  
Oklahoma City, OK 73129

## Safety & Tools



**WARNING:** Midwest Hose & Specialty's hose and components are designed to work as an assembly. The use of products from other manufacturers could result in the production of unreliable and unsafe hose assemblies. Midwest Hose & Specialty recommends that only products from Midwest Hose & Specialty be used.

*When using a previously in-service stem and clamp, be sure to visually inspect the stem and clamp for any hazardous defects such as cracks, etc. If a defect is detected, dispose of used assembly and only use the new components.*

*It is recommended to check torque specifications to ensure safe and efficient use of Lay Flat hose and associated fittings after any relocation or depressurizing of the hose.*



## Tools & Equipment

*Your hose should come fully assembled. In the event that you need to produce a new assembly in the field, you will need:*

### 10" Layflat Assembly

- 3 Clamp Sections  
#layaebgrc-160
- 6 piece Socket Cap Bolts  
#lay-bolt-ecoat-160
- Stem  
#layazbgts-160
- 6 piece Nuts  
#lay-nut-ecoat-160
- Box Knife
- Rubber Mallet
- Torque Wrench
- 8mm Allen Wrench

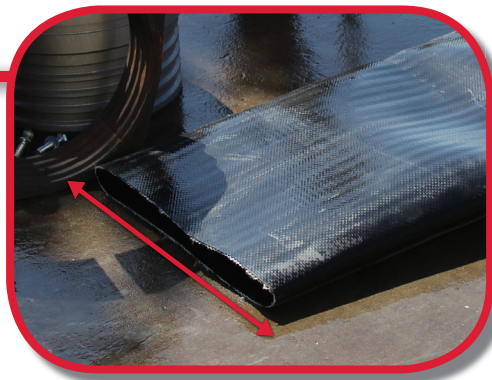
### 12" Layflat Assembly

- 4 Clamp Sections  
#layaebgrc-192
- 8 piece Socket Cap Bolts  
#lay-bolt-ecoat-192
- Stem  
#layazbgts-192
- 8 piece Nuts  
#lay-nut-ecoat-192
- Box Knife
- Rubber Mallet
- Torque Wrench
- 8mm Allen Wrench

## Assembly Instructions

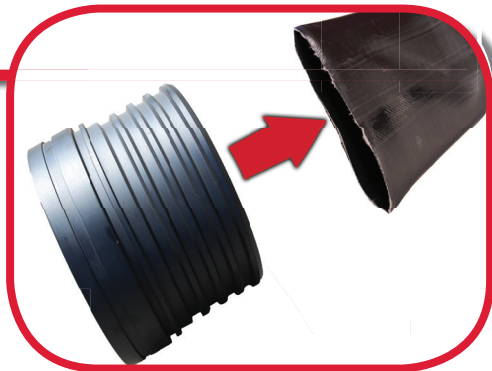
### 1 Measure and Cut the Hose

It is recommended that the hose is squarely cut before attempting to assemble. If necessary, use a box knife and a straight edge to squarely cut the hose.



### 2 Place Stem into Hose

Insert stem into hose. If you have difficulty, you can use soapy water. To ensure the stem is fully inserted into the hose, use the rubber mallet to tap the stem until hose is fully seated against the shoulder of the stem. The stem needs to be inserted into the hose as parallel to the hose as possible. If the stem goes into the hose on an angle, you may cause damage to the tube.





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### Align and Assemble Clamp on Hose

Assemble the clamp sections over the hose with all the nuts and bolts oriented in the same direction around the clamp. The crease in the hose cannot be positioned between the clamp sections. If this occurs, the hose will pinch causing a leak path. Make sure that the top of the clamp engages into the notch on the stem; this system provides a perfect alignment every time.



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### Tighten Bolts

Tighten the bolts in increments, keeping the clamp sections evenly spaced. Once the bolts have been hand-tightened, proceed with the torque specification according to the hose diameter in Table 1. It is vital to maintain the equal spacing of the clamp section.



Table 1

HOSE DIAMETER	TORQUE SPECIFICATION
10" Polyurethane Lay Flat Hose	40 ft./lbs. PSI
12" Polyurethane Lay Flat Hose	45 ft./lbs. PSI

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### Connecting Quick-Release Clamp

Midwest Hose uses our Quick-Release Clamp technology for coupling sections of hose, making it easy for assembly and disassembly of our grooved fittings. This improves efficiency, requiring only a fraction of the time it once took. Just insert the two ends into the clamp and tighten the two bolts uniformly and you have a seal tight connection.

