

Series WXS Exhaust Arm

Exhaust Arm Components

Check to make sure all components are complete before installation

Components Include:

- Arm Swivel Assembly
- Aluminum Structural Supports with Attached Gas Shocks
- Aluminum Duct Sections with Flex Hose Attached
- Aluminum Receptor
- Hardware

Optional Equipment: Light Kit/Fan Kit
Wall or Ceiling Bracket
Duct Swivel



Review all procedures in manual before installation is started. Refer to full arm assembly illustration above.

Installation of Arm Swivel

1. Mount Wall or Ceiling Platform to a load bearing surface, in which the area can support the stress and weight of the arm assembly. It is critical for the platform to be level and plumb.
2. Attach arm swivel to wall/ceiling platform by lining up 5/16-18 studs prepressed into arm swivel with matching flange pattern in platform plate. Secure and tighten using 5/16-18 Whiz-lock nuts provided in packaging.
3. If Car-Mon Series CMW exhaust fan is supplied, attach fan to top of platform, lining up flange pattern with platform hole pattern, use the arm swivel 5/16-18 studs as common bolts. Secure and tighten with 5/16-18 nuts provided.



Top of Swivel



Swivel connection to platform

Installation of Arm and Tubular Duct

1. The Arm is shipped in three main sections with the arm swivel as one, the main support duct, and receptor. Also the arm is pre-tensioned at the joints to make installation hassle free. To install, make sure the arm swivel is secured to the platform, and the clamp section containing the swivel is unfolded to allow the main support duct to fit inside the clamp of the arm swivel. Refer to illustration A which shows the holes that will need to be aligned. With the (4) 1/4-20 x 3/4" button head bolts, line up the holes, and insert them thru the swivel clamps and the main arm duct. Secure and tighten with the (4) 1/4-20 nylon insert lock nuts provided.



Illustration A: Arm Swivel Clamp with slotted holes to align with main support arm duct holes.

2. Next and last item is securing the receptor to main support duct bracket. A 3/8-16 x 1" whiz-lock bolt is secured in receptor from the factory. The friction disc, spring washer, and 3/8-16 nut is attached. Remove nut and spring washer and place bolt thru the angled support bracket; the friction disc should rest between aluminum disc on receptor and bracket. Use the spring washer provided and place on the bolt then secure with the 3/8-16 nut. Refer to Illustration E.

Illustration E: Receptor mounting to support bracket. The Friction disc is located on receptor side of bracket and spring washer and nut on the other side of bracket. Use a 9/16" wrench to tighten nut to the optimum tension needed.



Operation

The WX series arms provide excellent mobility at each joint. The arms come preset at factory with the proper tension and should hold position when mounted. If any adjustment is needed loosen or tighten at each joint by using a 9/16 wrench on the bolt and nut side. Move wrench in small increments, any adjustment should be minimal. Refer to illustration F.

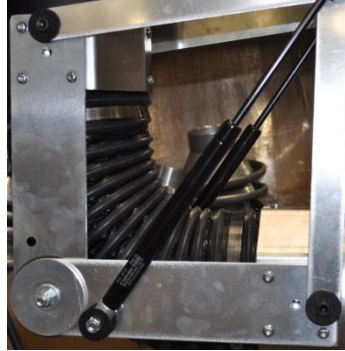


Illustration F: WXS Arm Back & Middle joint assembly; to tighten or loosen use a 9/16 wrench.

For best results, position the collection hood approximately 12” or closer from flash point where smoke is being generated.

Make sure the fan, (either directly connected or duct connected), is running when the arm is in operation.

The hand damper, which is located in the duct at the front section of the arm, closest to the receptor, is a quadrant style damper. When the handle is parallel to the duct, the damper is in an open position. When damper is perpendicular to the duct, it is closed.

To operate, loosen wing nut and move damper handle in 90° positions. Tighten wing nut to secure in proper position. Refer to illustration G.



Illustration G: Hand Damper Assembly

● Damper Handle

● Wing Nut

Maintenance

No regular maintenance is required, but we recommend checking flex hose and interiors for any build-up of grime. If there is any damage to flex hose, sections can be replaced. Contact Car-Mon customer service for any questions regarding maintenance or operation.