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PRODUCT GUIDE FOR

Model EXB - Extension Boom with Vehicle Exhaust Hose Drop & ACR – Cable Reel Lifting Device

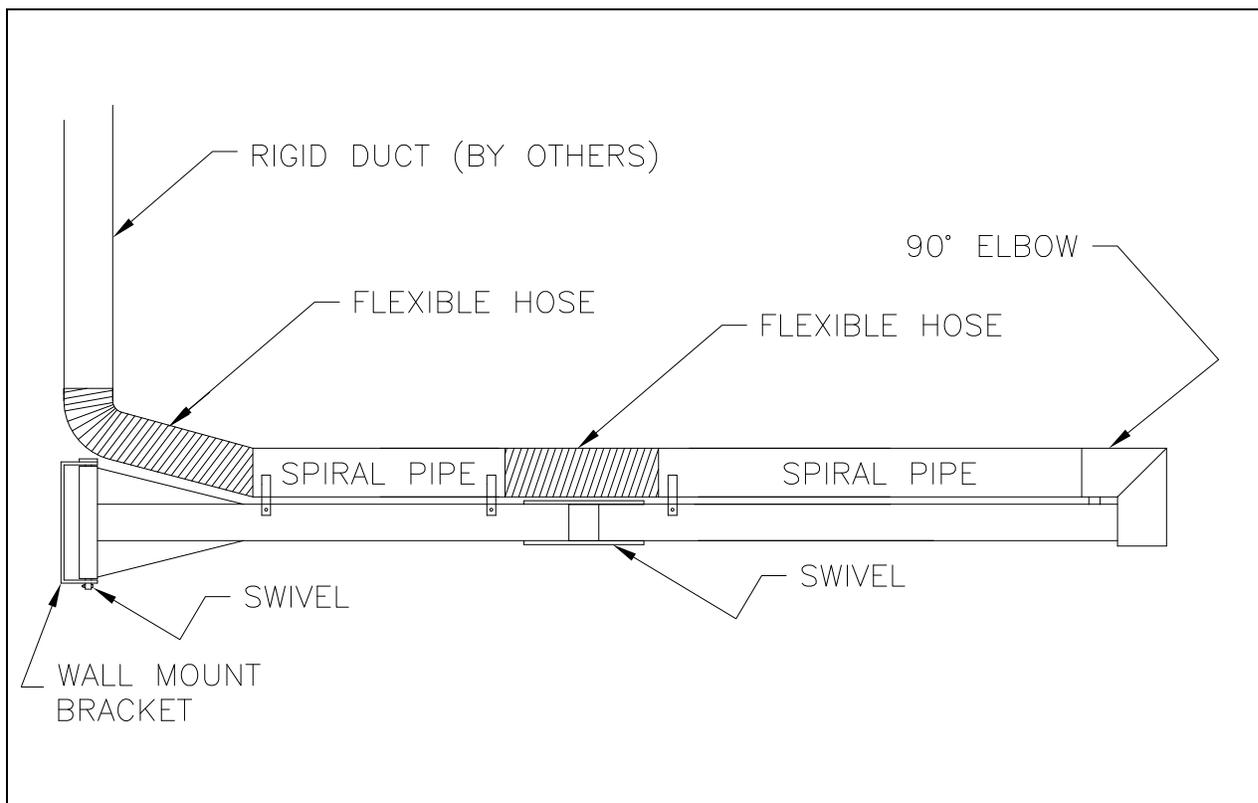


FIG 1 – Extension Boom Assembly

INTRODUCTION

1. Prior to installation inspect all the components received for shipping damage. If damage occurred contact your Ventaire representative for assistance.
2. Read **ALL** the instructions before proceeding with any installation, operation, or maintenance.

INSTALLATION

1. The extension boom should be mounted in a location where the rigid duct can be installed as shown in FIG 1. Determine the height of the wall bracket so the boom will not interfere with any system that can damage or effect performance. Rigid pipe should be at least a foot from the top of the wall bracket.
2. Level and secure the wall bracket to the desired rigid support (mounting methods differ with the desired mounting surface. 1/2" bolts are recommended if mounting to wall or beam) The wall bracket can also be welded for added support once leveled. NOTE: To insure proper functioning of the boom, the wall bracket must be mounted completely level.
3. Lift and position beam 1 so that the longer pivot bolt (threaded on both ends) can slide through the wall bracket holes and the sleeve on beam 1. Test movement of the beam to make sure torque is correct. The boom should not be able to move up or down when pressure is applied vertically and should also pivot freely horizontally.
4. Lift the second beam up to the center swivel on the first beam and position it so the smaller swivel bolt can be fastened using the provided washers and nuts. Again, test the movement of the beam to make sure the torque is correct.
5. Attach spiral ductwork to the steel boom (as shown in FIG 1) using the provided duct braces and bolts. It is recommended to first bolt the duct to the beams using the duct braces, then rivet the ductwork to the braces through the predrilled holes located on the top of the duct braces to insure a rigid connection.

6. Attach flexible hose to the rigid duct and spiral duct using the provided hose clamps. For additional security, drill through the center of the base clamp and the spiral duct. Rivet the flexible hose to the rigid duct and spiral duct through the hose clamps. NOTE: Use the larger section of the flexible hose to connect the vertical rigid ductwork to the boom (trimming may be necessary) and the shorter length at the center swivel of the boom. (As pictured in FIG 1) Test for free movement.

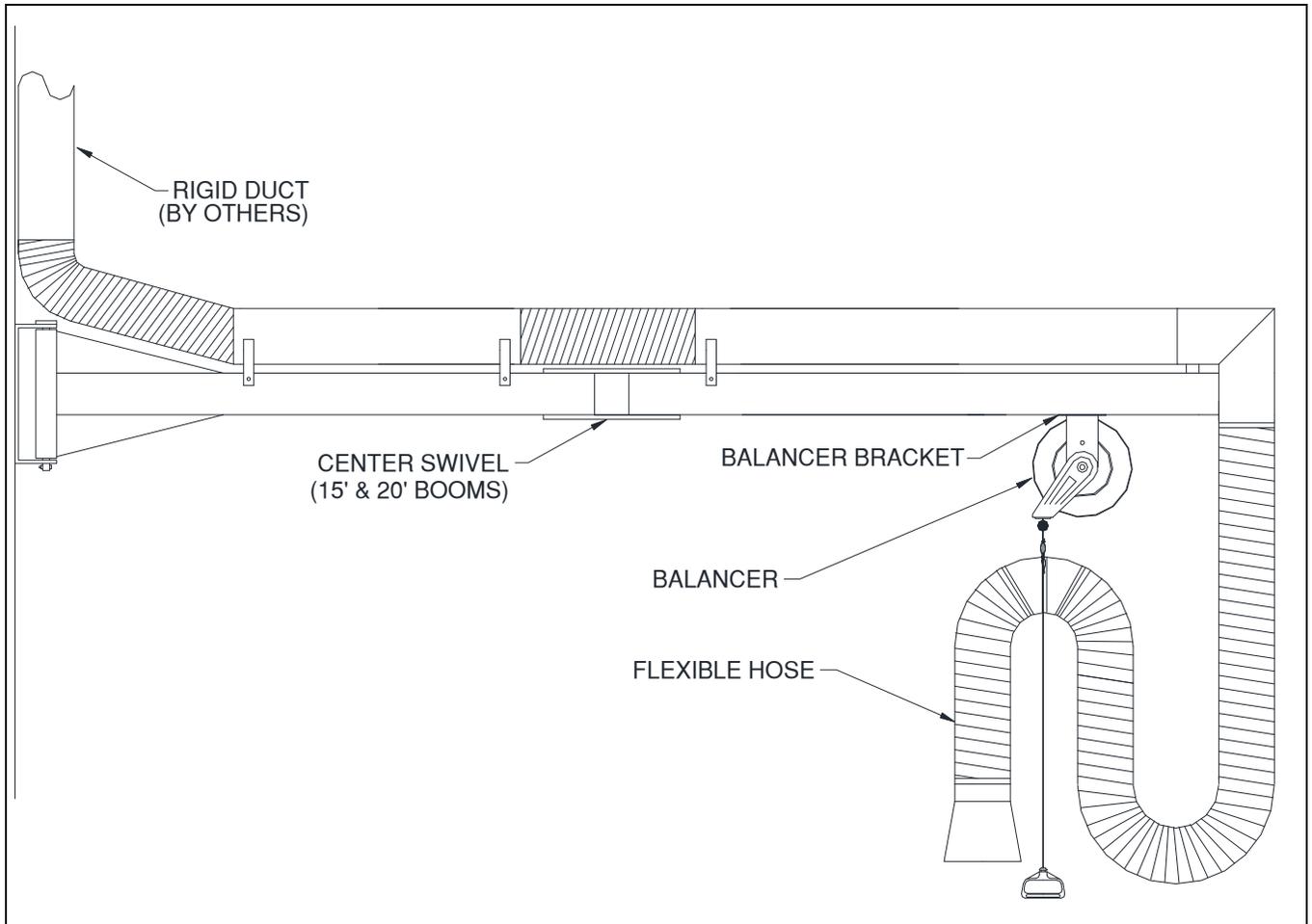
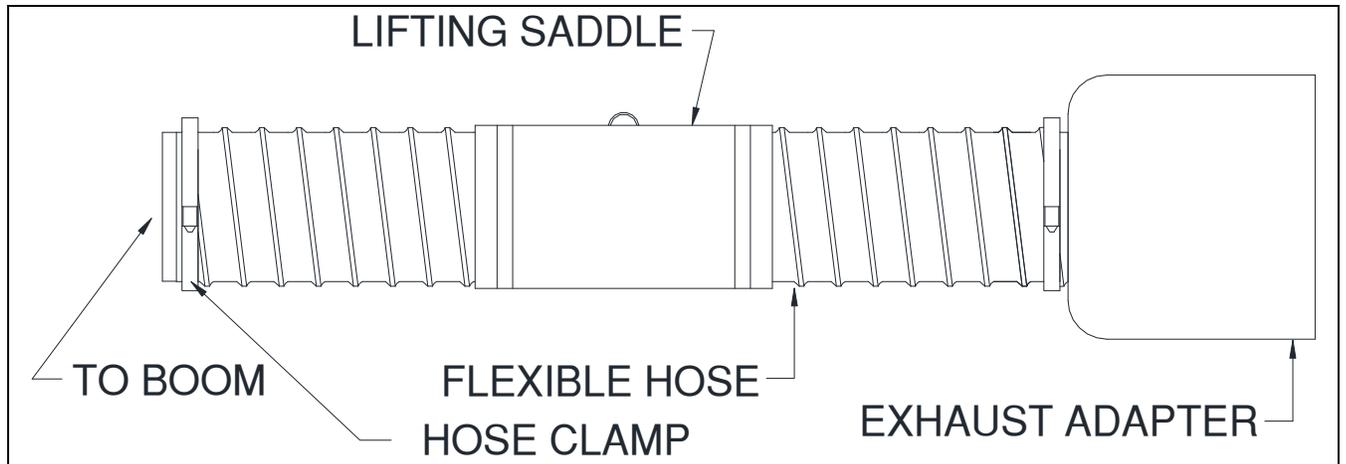


FIG 2 - System with ACR cable reel

7. Attach the ACR cable reel to the ACR mounting plate located near the end of the extension boom using the four ¼" bolts, flat washers, lock washers, and lock nuts provided. For maximum reach, position the reel so the cable guide arm is pointed towards the 90 degree elbow.
8. Assemble the flexible hose and all the components according to the system design. For the flexible hose connection, use the provided hose clamp to fasten the hose to rigid duct. To reinforce the connection, rivet the flexible hose through the hose clamp to the rigid duct. Then attach the hose assembly to the 90 degree elbow using the provided hose clamp. NOTE: If the flange was installed on the hose assembly, attach it to the companion flange fastened to the 90 degree elbow and bolt the flange halves together using the provided hardware.



9. Attach the ACR cable to the neoprene lifting saddle or elbow by attaching the cable to the D clip on the saddle or elbow. The ACR strength will need to be adjusted for optimum performance. Tension Adjustment: The ACR series cable reel is fully adjustable. The tension on the reel can easily be increased or decreased to suit your specific needs.

CAUTION: Excessive spring tension can cause damage to the reel and/ or hose assembly. The reel tension should be adjusted so that the flexible hose assembly slowly retracts completely to the reel when not in use.

10. Identify the reel and cable set attached and wind them onto the open reel.
11. Rigidly mount the reel to the boom using the (4) 1/4" diameter mounting holes.

WARNING: Use extreme caution; reel under tension. Avoid releasing latch mechanism without a firm grip on pull cable.

12. Pull out 3-6 feet of cable and secure the ratchet latch.
13. To add tension, bring the cable back through the guide arm and add a wrap around the reel drum. Adding one loop at a time, continue until the desired tension is achieved.
14. To decrease tension, bring enough cable back through the guide arm to remove a loop from the reel drum. Removing one loop at a time, continue until the optimum tension is achieved.

OPERATION

1. Position the extension boom to allow the hose drop on the end of the boom to get as close to the fume source as possible without interfering with the work.
2. Place the exhaust adapter on the exhaust stack or tailpipe of the vehicle being serviced.
3. Open any applicable air shut-off devices (i.e. blast gate, quadrant damper, etc.)
4. Turn on the exhaust fan and start vehicle.
5. After completing the vehicle service, turn off the exhaust fan.
6. Close any applicable air shut-off devices (i.e. blast gate, quadrant damper, etc.)
7. After retracting the hose, position the extension boom and attachments safely out of the work area.

MAINTENANCE

1. Inspect pivot points and base mount connections for any unusual wear. Replace or tighten as necessary.
2. Routinely check the flexible hose, connections, and accessories for excessive wear to ensure proper airflow. Replace if necessary.
3. Check the flexible hose supports and other optional mounted items. Adjust, tighten, or secure as necessary.
4. Inspect the airflow path through the extension boom flex and other attachments routinely to ensure the airflow path is free from any obstructions.
5. All mating parts of the ACR are to be lubricated with Perma Bond or Loctite anti-seize. The following parts of the ACR should be inspected routinely. The cable itself should be visually inspected for any wear or fraying which may result in personal injury and/ or equipment damage. All bolts should also be inspected to ensure that the reel and all components are securely tightened. Do not attempt to perform any service other than the above. All other services should be performed by Ventaire. Failure to do so can result in personal injury and/or equipment damage and may void warranty.
6. For problems not covered in these situations contact your representative.



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12-MONTH WARRANTY

VENTAIRE warrants their products, to the original purchaser, to be free from defects in material and workmanship under normal use and service (except for those cases which buyer supplied materials are used) for a period of 12 months from the original date of shipment. During the warranty period, **VENTAIRE**, will at its option, repair, replace, or issue credit for any components that are deemed defective by **VENTAIRE**.

Buyer's failure to pay the full amount due within (60) days of invoice shall release seller from any and all liability or obligation to any warranty.

Before returning equipment for repair or replacement, a **Return Authorization Number** must be obtained from **VENTAIRE** (952-894-6637). The **Return Authorization Number** must be written on the outside of all shipping cartons. Items returned without a **Return Authorization Number** will be refused. Items returned should be in original condition in which it was received and must be accompanied with a written explanation of the reason(s) for their return.

This warranty does **not** cover damage caused by accident, misuse, misapplication, or unauthorized service modification.