

US DUCT

Clamp-Together Duct

INSTALLATION GUIDE



Stay calm! You may have a lot of boxes and a lot of parts, but they will all go together quickly- as long as you remain organized. Therefore, **DO NOT START TEARING INTO BOXES.** Your packing slip will tell you what box contains which parts and help you organize the process.

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- 1** Find the box with the first piece, typically the adapter for the dust collector or fan. (You will want to work out from the fan or collector.) Find it and make sure that it does indeed connect to the fan or collector.

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- 2** Lay out the horizontal run of your duct and remove as many obstacles from the floor as possible. Optional: Once this is established, many people find it helpful to run the hangers first. Cable hangers can be used to make trapezes (tie off both ends to the beams and form a big loop) along the path. After the duct is hung in the trapeze, you can come back and place the hangers appropriately and level the duct.

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- 3** Systematically unbox your parts using the packing slip. Place them along the line of installation in the general location they will be needed, but out of the way of your Hi-lift or ladder. Refrain from standing the duct on end. If it falls you may knock the end out of shape, making it more difficult to clamp securely.

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- 4** Start from the collector/fan and work your way out.

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- 5** Refrain from branching off the trunk line with long runs that extend the 30 or 45 degree branch. Trying to hit a distant point by coming off at an angle is VERY difficult. Even the slightest degree can cause you to be feet off when you have added multiple pieces of pipe. Instead, try to run at 90 degrees to the trunk and take each lateral run as you encounter it, completing that lateral run before continuing with the trunk line. This way, you can still make adjustments in the trunk line without impacting the rest of the system.



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THE ADJUSTABLE SLEEVE. If you are using clamp-together duct, the adjustable sleeve will be huge advantage to you as you make field adjustments. The sleeve is 11" long. The inside diameter is large enough to allow it to slide over a piece of pipe after the rolled lip is cut off the pipe. Follow these instructions for using the sleeve.

- a. For example, let's consider making up 8' between two elbows. The pipe comes in a nominal 5' length. Therefore, you will use one full length and still need a 3' section.
- b. Take a standard length and cut it approximately 2" to 4" SHORTER than the length needed. In this example, you would cut it about 32" to 34" long. (Cutting is best accomplished with a reciprocating saw. Make sure to de-burr the cut end with a file.)
- c. Take the sleeve (O-ring comes on the sleeve) and slide it onto the pipe and move until you have the 'assembly' of the pipe and sleeve to the right length.
- d. Once adjusted, roll the O-ring off the sleeve and onto the pipe, then roll it up against the rolled lip of the sleeve.
- e. Using the standard clamp, clamp the O-ring to the rolled lip of the duct. This will secure the pipe. If at any time you discover you need to make adjustment, simply undo the clamp, move the O-ring, and re-clamp.

NOTE: MAKING ADJUSTMENT SHORTER THAN THE 11" SLEEVE. In certain instances, you may need to create a piece that is shorter even than the 11" sleeve. This situation is easily accommodated due to the fact that the collar on the end of each fitting is the same size as the sleeve, meaning that a cut piece of pipe will slide into the end of the fitting. You can use an O-ring to secure the pipe to the end of the fitting.

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To use the Cable Hanger,



start with the end that has a ferruled loop. Use this looped end to secure it around a point on the structure from which you plan to hang the duct. The other end of the cable will be cut (raw). Take that end and run it through the Clutcher, around the duct, and then through the clamping side of the Clutcher. This is the side with the thumb tab release.

Another note: In the event you need to let off or lengthen the cable, you will need to lift up on the duct to take pressure off the Clutcher, push the cable up to help release the alligator teeth inside, and THEN use the thumb tab to release the cable.