INSTALLATION GUIDE

4" Vacuum Holsters™ - Fixed Mounted Direct-to-Duct

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SELECTION OF CORRECT KIT

4" Vacuum Holsters™ can be suspended directly from the exhaust duct manifold. In order to ensure that the bottom rim of the tailpipe adapter is 6'6" AFF, there are two basic installation arrangements.

1. Direct to duct suspension, in which the exhaust hose of the Vacuum Holster™ is connected directly to the duct manifold. Typically, this method is suitable when the bottom of the duct manifold is 14' or less AFF (Diagram 1 below).

NOTE: If the duct is very low AFF (typically 12'0" or less), the installer may cut the Hose Holster to a shorter length, provided the cut does not exceed 16" (Diagram 2).

2. Extended direct to duct suspension is generally used when the bottom of the duct manifold is 14' or more AFF. The installation contractor supplies a piece of spiral duct (called the *duct spacer*), which is placed between the exhaust hose of the Vacuum Holster™ and the spiral duct manifold. To ensure that the bottom rim of the tailpipe adapter is 6'6" AFF, the length of the duct spacer must be sized per application. With extended duct suspension, it should never be necessary to cut the Hose Holster to a shorter length. See diagram 3 below.

The height of the duct manifold AFF is the key measurement to determine the proper suspension method. Due to variance in the types of takeoff fittings that may installed, the above measurements of duct manifold AFF should be used as guidelines, and not as hard-and fast-rules.

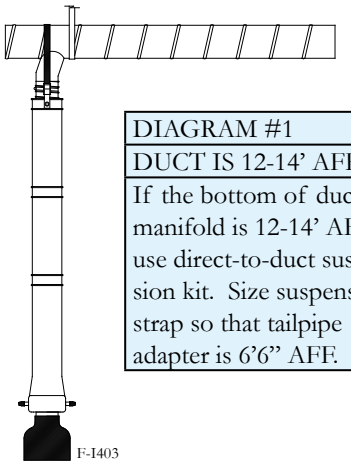


DIAGRAM #1
DUCT IS 12-14' AFF.
If the bottom of duct manifold is 12-14' AFF, use direct-to-duct suspension kit. Size suspension strap so that tailpipe adapter is 6'6" AFF.

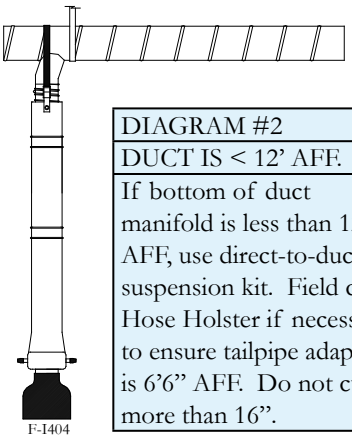


DIAGRAM #2
DUCT IS < 12' AFF.
If bottom of duct manifold is less than 12' AFF, use direct-to-duct suspension kit. Field cut Hose Holster if necessary to ensure tailpipe adapter is 6'6" AFF. Do not cut more than 16".

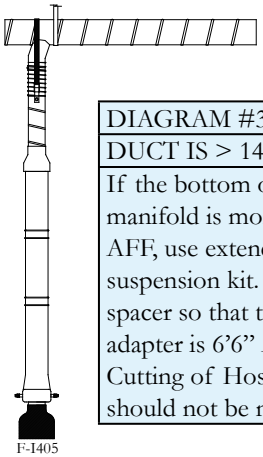
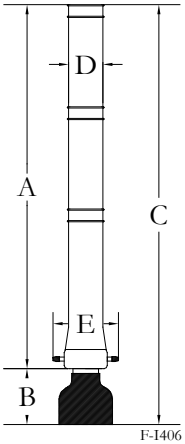


DIAGRAM #3
DUCT IS > 14' AFF.
If the bottom of duct manifold is more than 14' AFF, use extended duct suspension kit. Size duct spacer so that tailpipe adapter is 6'6" AFF. Cutting of Hose Holster should not be necessary.

DIMENSIONS AND WEIGHTS

Dimensions & Weights - Vacuum Holster™ Assembly		
Hose Holster Model	4" Compact*	4" Extended
A - Hose Holster Height	40"	56"
B - Tailpipe Adapter below Hose Holster	8 3/4"	8 3/4"
C - Total Height Vacuum Holster™	48 3/4"	64 3/4"
D - Width, Hose Holster Body	5 3/8"	5 3/8"
E - Width, Damper Axle	10 1/4"	10 1/4"
*Note: For Compact Holsters, A, B, and C are minimums. The installer may field-cut the Holster to a length between the two figures.		
Weight - Vacuum Holster™ w/ 17' Hose	20 lbs.	22 lbs.
Weight - Vacuum Holster™ w/ 20' Hose	22 lbs.	24 lbs.
Weight - Vacuum Holster™ w/ 23' Hose	n/a	26 lbs.



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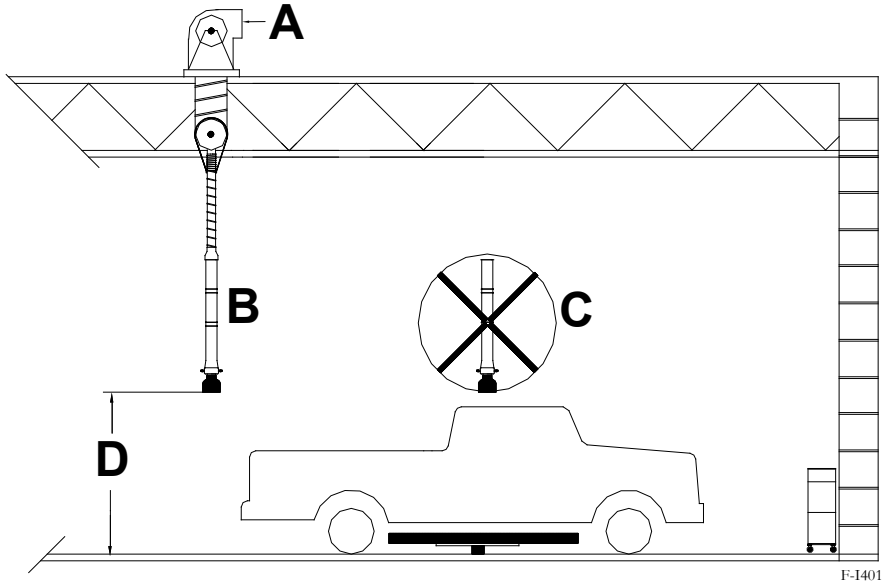
ADVANCED EXHAUST REMOVAL SYSTEMS

GUIDELINES FOR LOCATION OF 4" VACUUM HOLSTERS™, SIDE VIEW

Ascent Systems strongly encourages the system designer to consider the location of the vehicle hoists when designing the spiral duct manifold.

Determine what the probable longest vehicle will be, and estimate where its bumper will be located when the vehicle is positioned on the hoist. To ensure the exhaust hose does not have to wrap around a vehicle, locate the duct manifold 1 or 2 feet behind the bumper of the longest vehicle.



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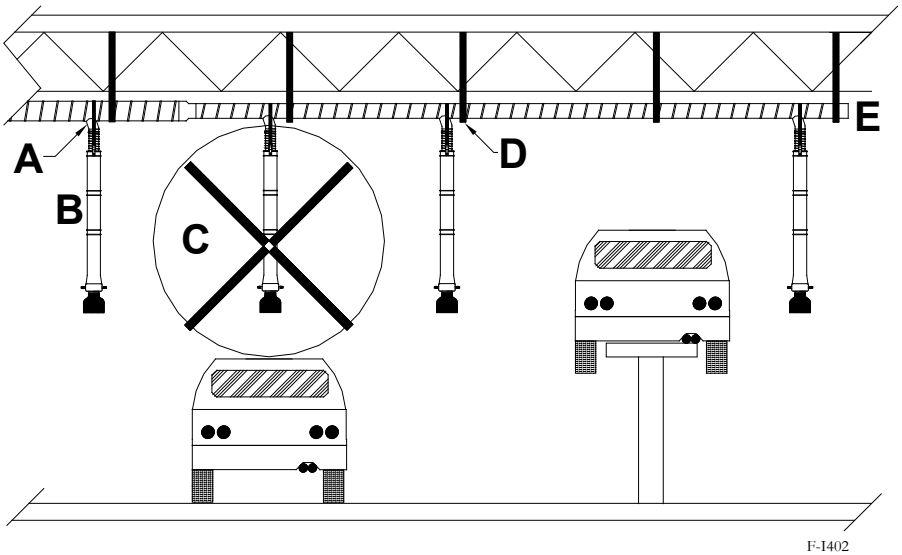
Note	Comment
A	Outdoor fan placement is strongly recommended.
B	CORRECT LOCATION: The Vacuum Holsters™ hang 1-2' behind the bumper of the largest vehicle on the hoist.
C	WRONG LOCATION: Here, the Vacuum Holster™ is too far forward, potentially creating a coverage issue.
D	Bottom rim of tailpipe adapter recommended to be 6'6" AFF. Please confirm with owner rep before installing.

GUIDELINES FOR LOCATION OF 4" VACUUM HOLSTERS™, END VIEW

Ascent Systems strongly encourages the system designer to locate the Vacuum Holsters™ between the service bays.



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Note	Comment
A	Use a take-off fitting with 4" diameter.
B	CORRECT LOCATION: The Vacuum Holsters™ hang between the service bays.
C	WRONG LOCATION: Avoid placing Vacuum Holsters™ in the middle of the service bay.
D	Place a duct support strap near each Vacuum Holster.
E	Do not use elbows at the end of a run of spiral duct. Extend the duct manifold past the Vacuum Holster, and terminate the run with a plug. The suspension strap cannot loop over an elbow.

Suspension Detail - Direct-to-Duct Suspension Kit

Introduction

This installation method is most suitable for 4" Vacuum Holsters, when the bottom of the duct manifold is less than 14' AFF.

Part #, Direct-to-Duct Suspension Kit: A4DHS.

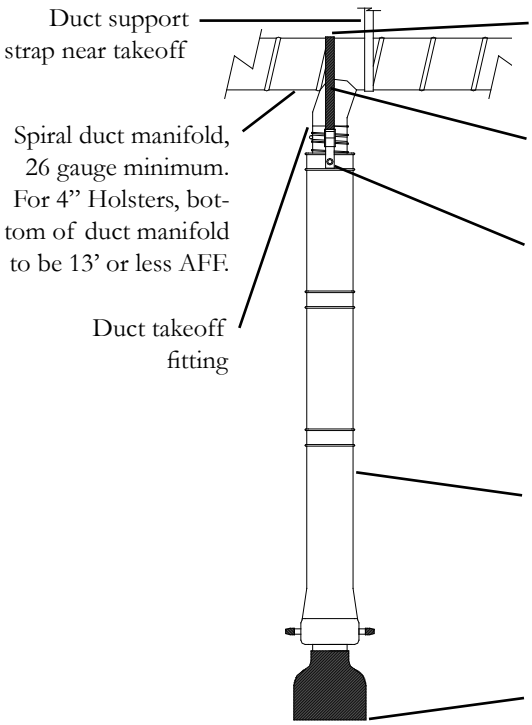
Each suspension kit includes:

1) 10' of suspension strap to loop over the duct manifold;
2) Two cam grip-cleat hardware assemblies, to connect the Hose Holster to the suspension strap;
3) Self-tapping screws and fender washers to secure the suspension strap to the duct manifold; and
4) One hose clamp, to connect the exhaust hose of the Hose Holster to the duct takeoff.

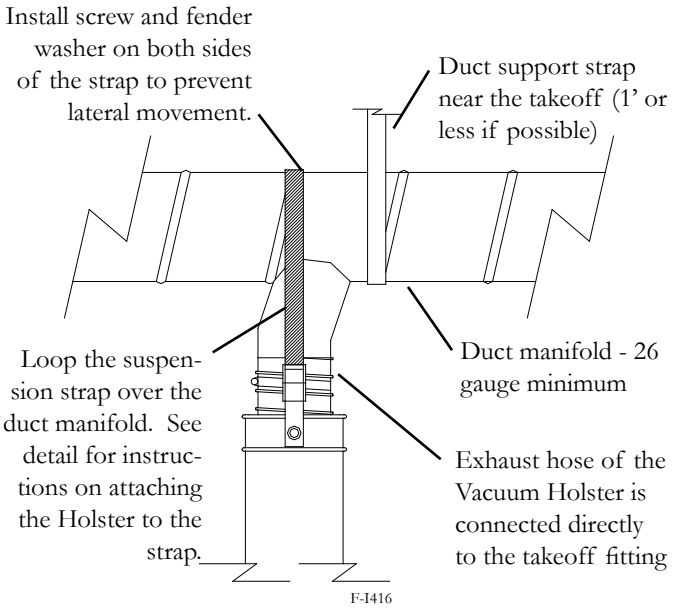
The suspension strap is looped over the duct manifold. The Hose Holster is then connected to the suspension strap, which is secured to the duct manifold to prevent movement. The duct manifold should be at least 26 gauge to support the weight.

By Installer

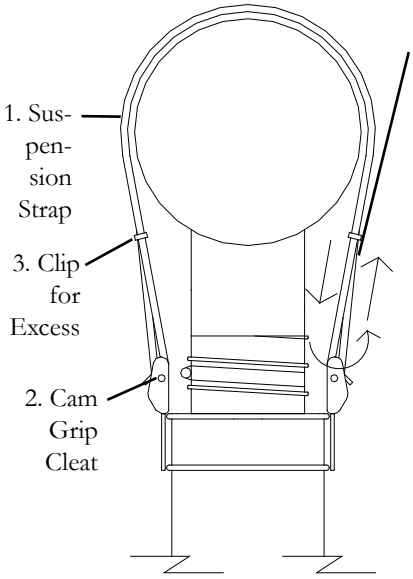
By Ascent



SUSPENSION DETAIL - SIDE VIEW



SUSPENSION DETAIL - END VIEW



The bottom rim of the rubber tailpipe adapter is recommended to be 6'6" AFF.