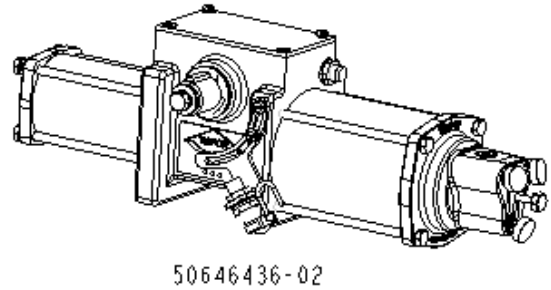
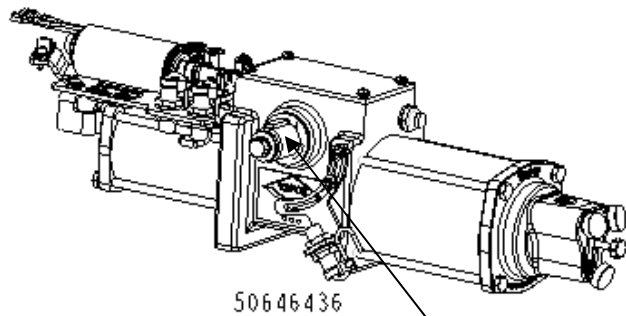


Installation and Adjustment Procedure Activair® Differential Engine

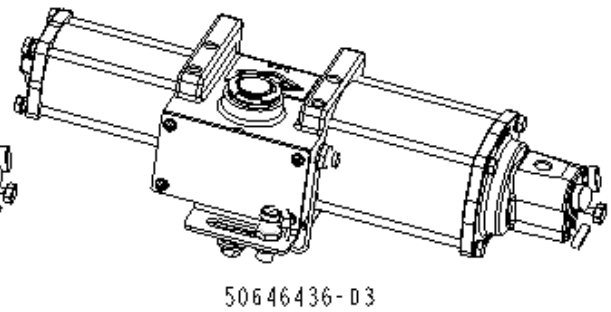
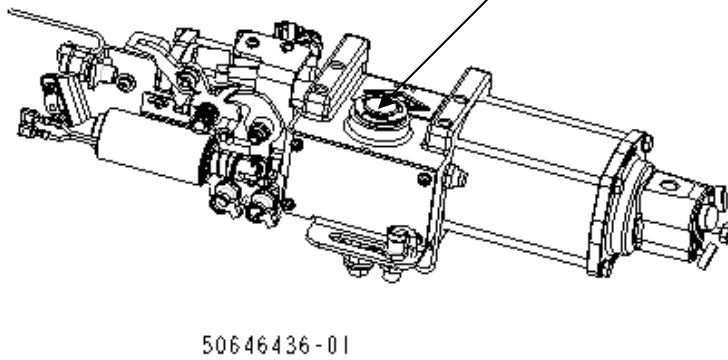
The Vapor Activair Differential Engine incorporates new features for improved performance, easier, less costly maintenance, greater reliability, and enhanced passenger security.

1. Available configurations of the Vapor Activair Differential Engine

Part Number	Lock Mechanism	Output Shaft Orientation
P/N 50646436	Yes	Horizontal
P/N 50646436 – 01	Yes	Vertical
P/N 50646436 – 02	No	Horizontal
P/N 50646436 – 03	No	Vertical



Output shaft



Installation and Adjustment Procedure Activair® Differential Engine

2. Installation of the Differential Engine

The Vapor Activair Engine can be mounted in the vertical or horizontal position utilizing mounting holes (5/8"-16 x 0.5" deep) located on the bottom and on the back surfaces of the engine, as shown in Figure 1. The engine functions with line pressures of 90-125 psi. Pressure regulator not required.

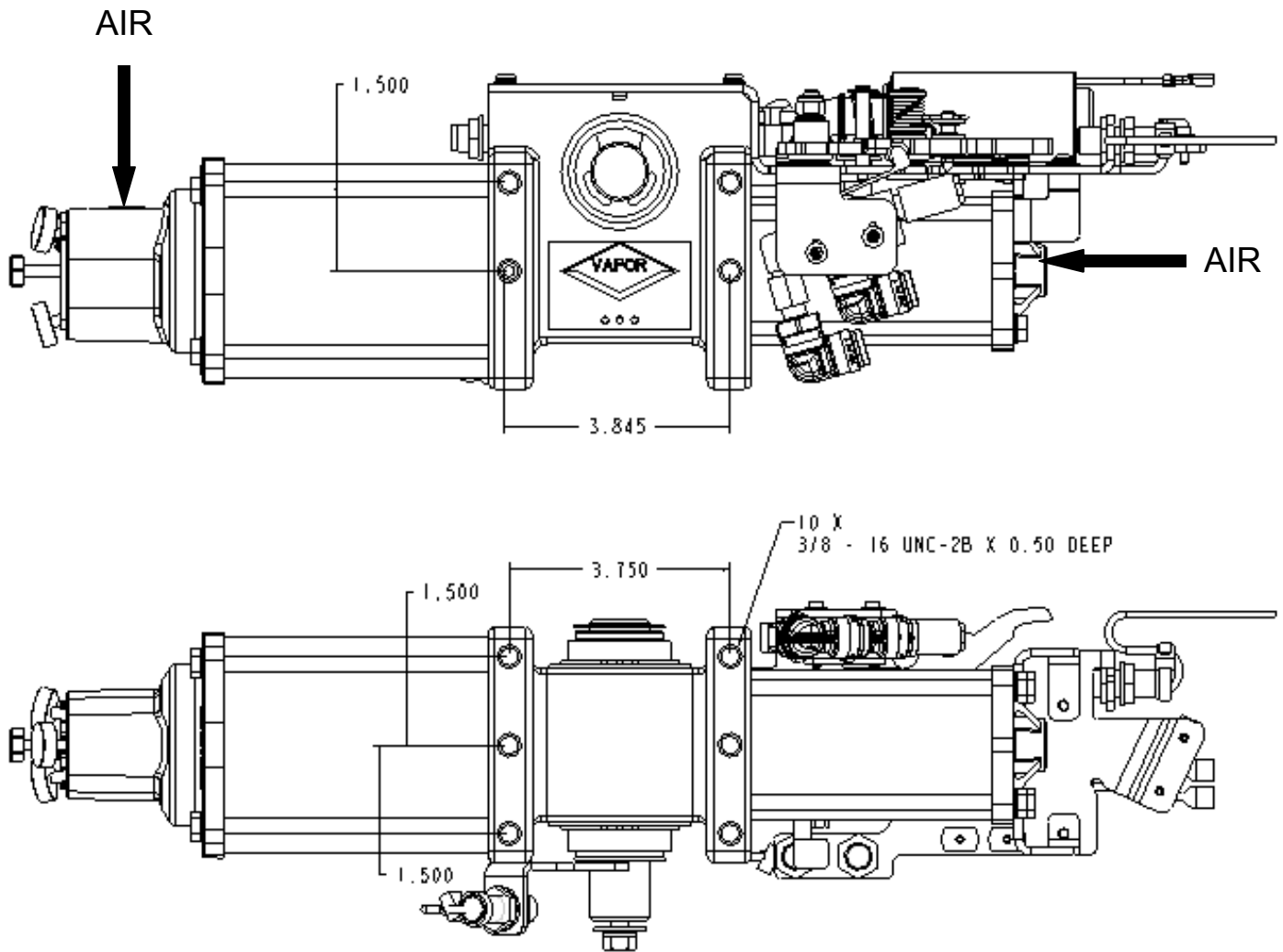


Figure 1

Installation and Adjustment Procedure Activair® Differential Engine

3. Door Speed Adjustments

Tools required: ½” nut driver

The Activair engine utilizes finger screws for faster, more precise door speed adjustments. When making door speed adjustments, **always adjust the closing speed first**, as this adjustment affects the door opening speed.

- a) **To adjust the closing speed**, use the Close Speed adjustment screw as indicated in Figure 2. Turn the finger screw clockwise to decrease closing speed, counterclockwise to increase closing speed.
- b) **Next, adjust the opening speed**. Use the Open Speed adjustment screw as indicated in Figure 2. Turn the finger screw clockwise to decrease opening speed, counterclockwise to increase opening speed.
- c) Proper cushioning adjustment can eliminate door opening slamming and prolong door adjustment and maintenance cycles. **Turn the Cushioning adjustment screw** clockwise to provide more cushion as the door moves to the full open position, counterclockwise to provide less cushion.
- d) The cushioning onset moment can be adjusted by using a ½” nut driver. Adjusting this screw allows you to change the start position of the cushioning process. **Turn the Cushioning Onset screw** clockwise to start cushioning earlier in the door open cycle. Turn the screw counterclockwise to start the cushioning later in the door open cycle.
- e) After making door speed and cushioning adjustments, check the functionality of the emergency activation system by pulling the emergency cable. This will activate the air pressure release valve and air will be discharged from both the small and large cylinders, allowing the doors to be opened manually.

