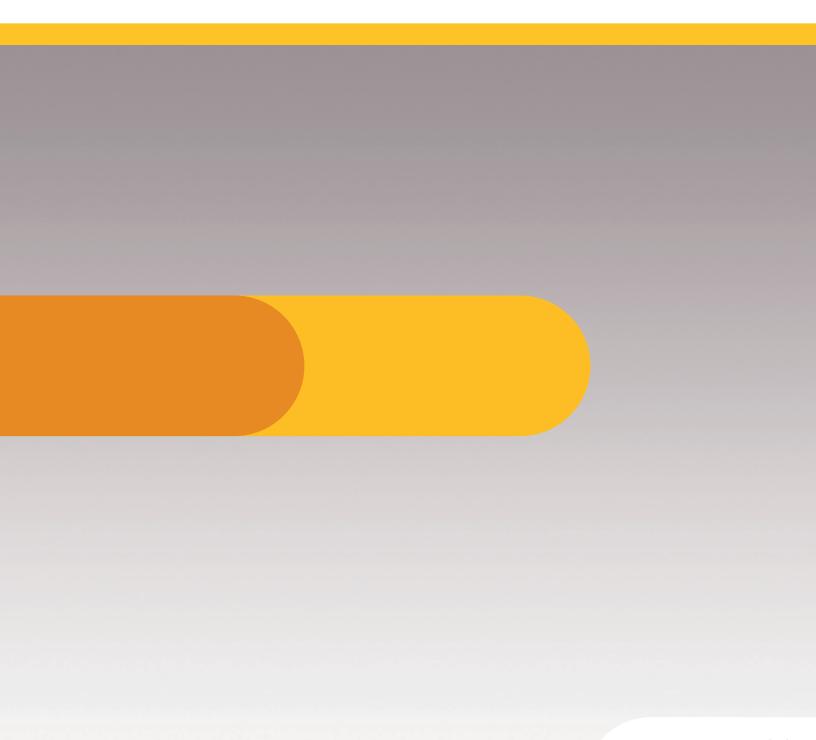


Safe-Stop® 180 TMA MODEL 9181 TRUCK MOUNTED ATTENUATOR PUMP CONVERSION INSTRUCTIONS







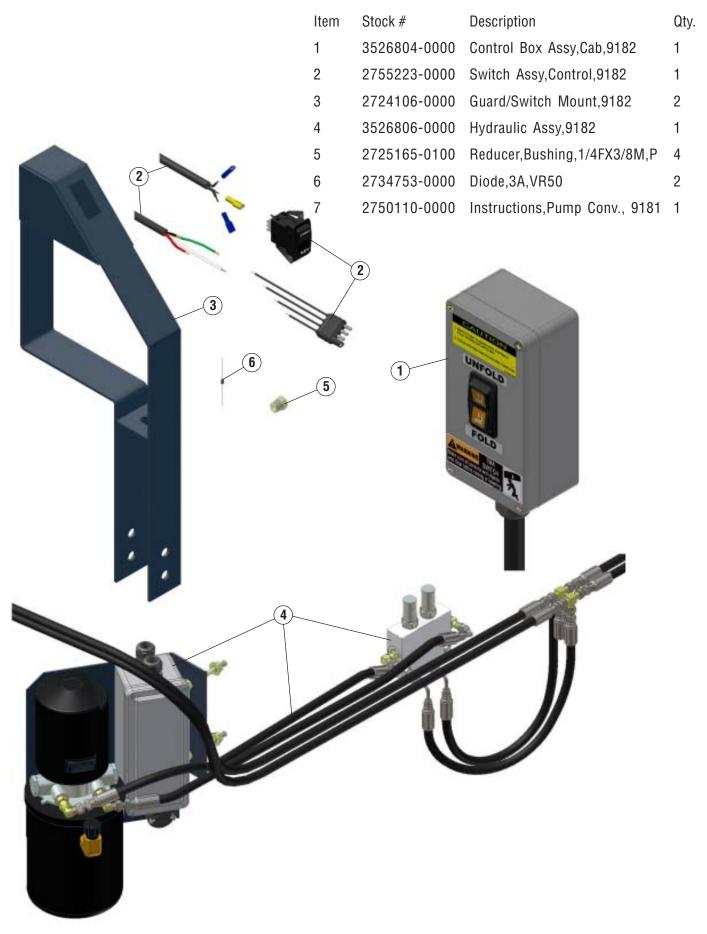
Product Bulletin Safe-Stop® 180 TMA Model <u>9181</u>

Pump Conversion Instructions



Part No. 115422 © Valtir, LLC Revision B February 2023

9181 to 9182 Pump Conversion Kit



<u>Step 1</u> - Install new pump to right side (passenger side). Drill two holes in frame as shown in Figures 1 & 2, and mount pump with hardware.

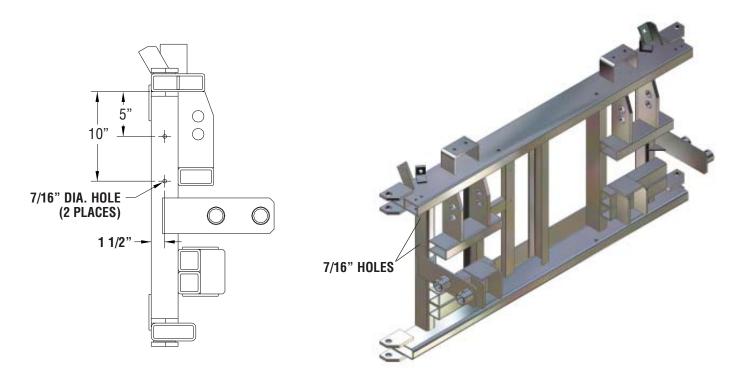
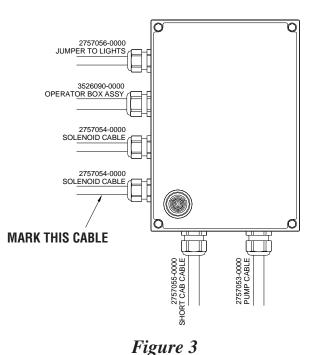


Figure 1

- <u>Step 2</u> Remove existing pump.
- <u>Step 3</u> Remove all four cylinder solenoids (next to the cylinders).
- <u>Step 3b</u> Connect the hoses to the cylinders using the reducer bushings.
- <u>Step 4</u> Disconnect old cab control and control boxes from the hydraulic control box.
- <u>Step 5</u> Disconnect solenoid wires from hydraulic box. Mark the left side solenoid cable. See Figure 3.







Revision B February 2023

<u>Step 6</u> - Disconnect the jumper to light box.

Step 7- Remove Hydraulic box.

- <u>Step 8</u> Install counter balance in the same bolt holes the 9181 pump used.
- <u>Step 9</u> Install hoses as shown in Figure 4. Leave the old hoses from the Tees to the cylinders.

<u>Step 10</u> - Install guard and switch. Plug switch into new box plug connectors.

<u>Step 11</u> - Install cab control box. Plug switch into new box plug connectors.

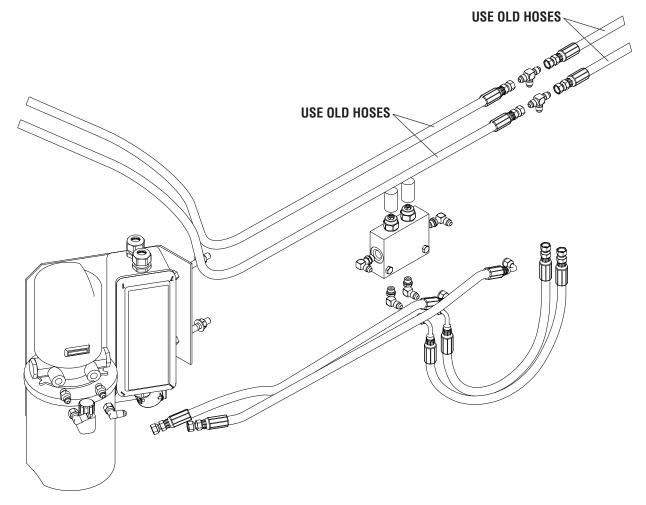


Figure 4

<u>Step 12</u> - Re-connect the left solenoid as shown in Figure 5.

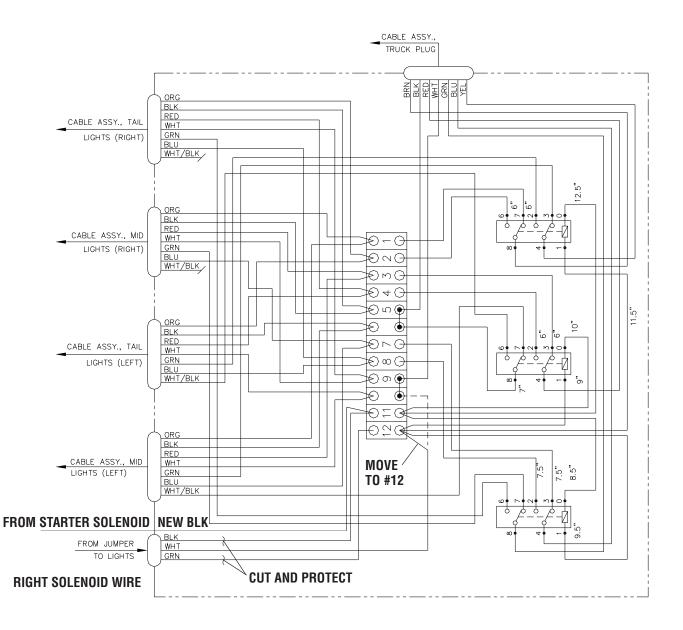
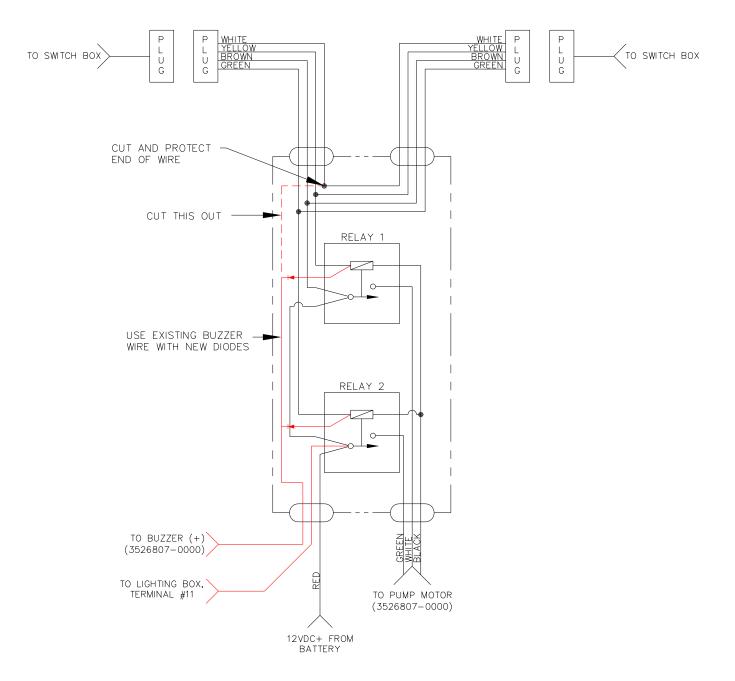
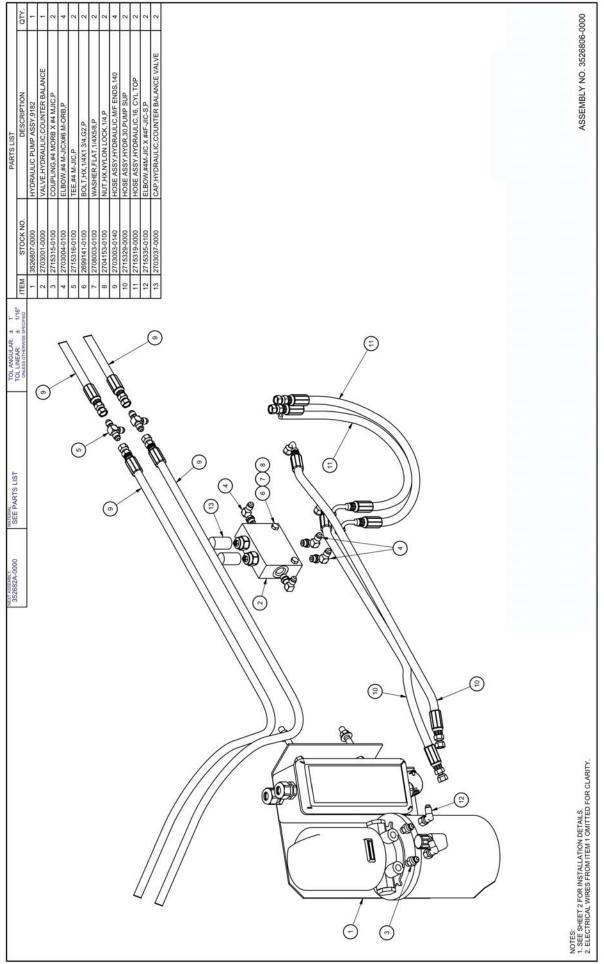


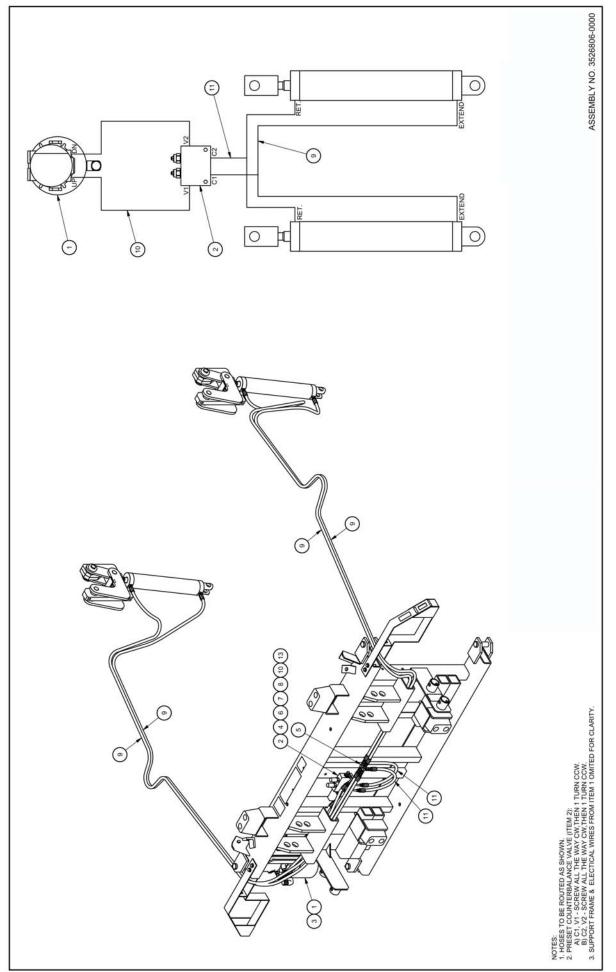
Figure 5 Lighting Box Wiring Schematic

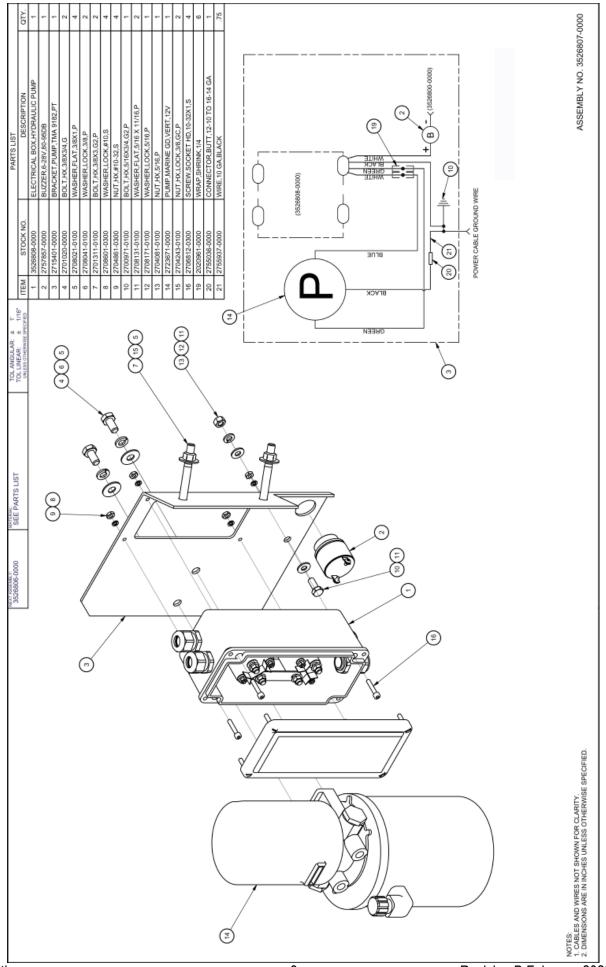
- <u>Step 13</u> Add black wire between starter solenoid power (inside new box) and terminal # 11 in the Lighting control box.
- <u>Step 14</u> Cut and protect the buzzer wire that connects to the white wires inside the electrical wire. Use the buzzer wire with new diodes to the starter solenoids as shown in Figure 7.

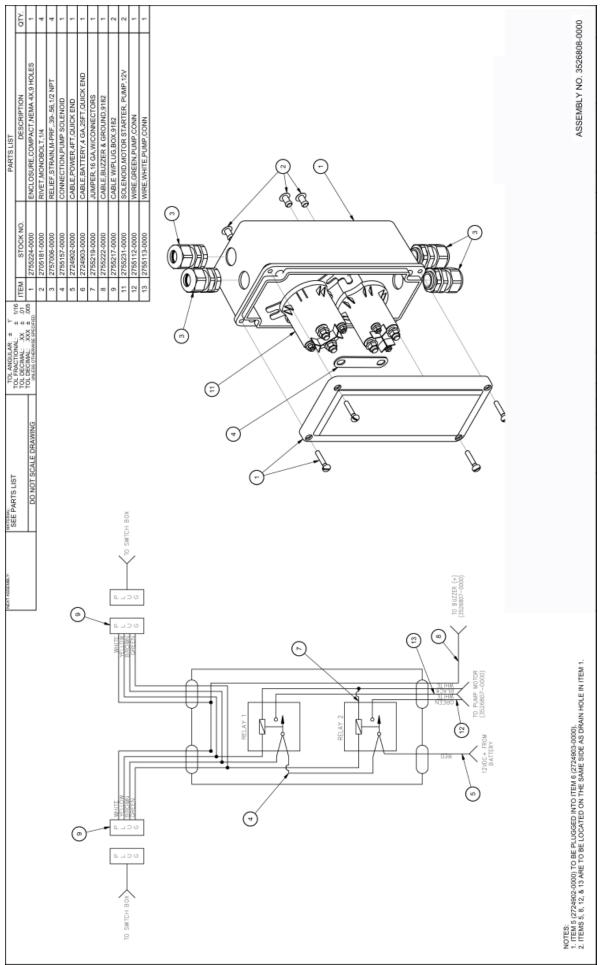
<u>Step 15</u> - Add ground wire to buzzer (-).











Notes



For more complete information on Valtir products and services, visit us on the web at www.valtir.com. Materials and specifications are subject to change without notice. Please contact Valtir to confirm that you are referring to the most current instructions.

WWW.VALTIR.COM 1.888.323.6374