INSTALLATION GUIDE:
AWE F150 EXHAUST

Welcome to the AWE family, and congratulations on your purchase of the AWE Exhaust system for the Ford F-150.

Exquisite build quality and craftsmanship, coupled with industry leading performance, distinguish this exhaust system from all others.

*For up to the minute fitment information, be sure to visit the AWE website. As always, AWE Performance Specialists are standing by for any questions, right here.

THIS PRODUCT IS INTENDED FOR THE FOLLOWING VEHICLES*:

<table>
<thead>
<tr>
<th>YEAR</th>
<th>MAKE</th>
<th>MODEL</th>
<th>SUBMODEL</th>
<th>ENGINE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015-2019</td>
<td>Ford</td>
<td>F-150</td>
<td>Regular, SuperCab, SuperCrew</td>
<td>5.0L V8</td>
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<tr>
<td>2015-2019</td>
<td>Ford</td>
<td>F-150</td>
<td>Regular, SuperCab, SuperCrew</td>
<td>3.5L EcoBoost</td>
</tr>
<tr>
<td>2015-2019</td>
<td>Ford</td>
<td>F-150</td>
<td>Regular, SuperCab, SuperCrew</td>
<td>2.7L EcoBoost</td>
</tr>
</tbody>
</table>

THIS GUIDE IS INTENDED FOR THE FOLLOWING PART NUMBERS:

3015-11048  AWE Resonated Front Section For F-150
3020-11026  AWE Non Resonated Front Section For F-150
3015-22066  AWE Single Side Exhaust For F150 - Chrome Silver Tips
3015-23058  AWE Single Side Exhaust For F150 - Diamond Black Tips
3015-32104  AWE Dual Rear Exit Exhaust For F-150 - Chrome Silver Tips
3015-33120  AWE Dual Rear Exit Exhaust For F-150 - Diamond Black Tips

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PARTS LIST

INSPECT ALL PARTS PRIOR TO DISASSEMBLY OF VEHICLE; IF DAMAGED OR MISSING, PLEASE CONTACT THE PLACE OF PURCHASE IMMEDIATELY.

Performance Inlet Section

<table>
<thead>
<tr>
<th>QTY</th>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>164&quot; Wheelbase Adapter</td>
<td>C14</td>
</tr>
<tr>
<td>1</td>
<td>3.00in Accu-Seal Clamp</td>
<td>TAS300</td>
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Resonated System Only

<table>
<thead>
<tr>
<th>QTY</th>
<th>Description</th>
<th>Part Number</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Ford F-150 13G Resonated Inlet</td>
<td>C10</td>
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Non Resonated System Only

<table>
<thead>
<tr>
<th>QTY</th>
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<th>Part Number</th>
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<tr>
<td>1</td>
<td>Ford F-150 13G Non Resonated Inlet</td>
<td>C11</td>
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Axle-Back Exhaust Single Outlet

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<th>QTY</th>
<th>Description</th>
<th>Part Number</th>
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<tbody>
<tr>
<td>1</td>
<td>Ford F-150 13G OEM Resonator Adapter</td>
<td>C12</td>
</tr>
<tr>
<td>1</td>
<td>Ford F-150 13G HR Mid Section</td>
<td>C15</td>
</tr>
<tr>
<td>1</td>
<td>Ford F-150 13G Single Outlet Axle Tube</td>
<td>C16</td>
</tr>
<tr>
<td>1</td>
<td>Ford F-150 13G Single Outlet Rear Merge</td>
<td>C17</td>
</tr>
<tr>
<td>5</td>
<td>3.00in Accu-Seal Clamps</td>
<td>TAS300</td>
</tr>
<tr>
<td>2</td>
<td>4.5&quot; Slash Cut Tip</td>
<td>61000488 (Black) or 61000455 (Chrome)</td>
</tr>
</tbody>
</table>
INSPECT ALL PARTS PRIOR TO DISASSEMBLY OF VEHICLE; IF DAMAGED OR MISSING, PLEASE CONTACT THE PLACE OF PURCHASE IMMEDIATELY.

Dual Outlet System Only
1. Ford F-150 13G OEM Resonator Adapter C12
2. Ford F-150 13G HR Mid Section C15
1. Ford F-150 13G Dual Outlet Mid Merge C18
1. Ford F-150 13G Dual Outlet Driver Side Axle Tube C19
1. Ford F-150 13G Dual Outlet Passenger Side Axle Tube C20
2. Ford F-150 13G Dual Outlet Side Exit Tip Outlets C21
1. Ford F-150 13G Dual Outlet Driver Side Rear Tip Outlet C22
1. Ford F-150 13G Dual Outlet Passenger Side Rear Tip Outlet C23
2. Ford F-150 13G Dual Outlet Universal Hanger C24
2. 5” Straight Cut Tip 180003BC (Black) or 180003CHROME (Chrome)
8. 3.00in Accu-Seal Clamps TAS300
2. F-150 Universal Hanger Bracket-Back ing 110035
2. Rubber Exhaust Isolator 610400
1. Hanger hardware kit 3910-41022
   4 M8-1.25 x 30mm Socket Head Cap Bolt 91287A154
   4 M8-1.25 Locknut 91828A410
   4 M8 Stainless Steel Lock Washer 92148A200
2. 1/2” Hanger clamp Kit 3910-11012
   2 1/2” exhaust hanger split collar 1C-050-A
   1 9/64“ Allen Wrench 7122A19

610400 (x2) 3910-11012 (x2)
**NOTE:** Always refer to the manufacturer’s service manual for precise torque specifications on all OEM fasteners.

**CAUTION:** The exhaust may be VERY HOT — allow adequate time for the system to cool down before disassembly. Severe burns and injury will occur if skin comes into contact with a hot exhaust system.

### STEP 1

Start by loosening the front two flange bolts connecting the resonator section to the resonator inlet shown in Figure 1. These must move freely to detach the rest of the exhaust system.

If you will also be installing the performance resonator section, you can remove this hardware to be re-used when installing your AWE Exhaust system.

![FIGURE 1](image1)

### STEP 2

Loosen the factory clamp (a) holding the resonator section to the over axle tube shown in Figure 2

![FIGURE 2](image2)

### STEP 3

The resonator section and over axle section are held in place by the locking feature shown in Figure 3.

While facing the front of the vehicle, rotate the front resonator section clockwise to release the locking feature.

![FIGURE 3](image3)
STEP 4

Remove the two front hanger brackets from the truck as shown in Figure 4. This will aid in removal of the OE system.

NOTE: Hanger Brackets vary between the different motors. But the instructions remain the same.

STEP 5

Remove the first rear hanger, this will be reused in the AWE systems install, Figure 5

NOTE: The OEM exhaust system should be safely supported before disassembly

STEP 6

Remove the last rear hanger, this will be reused in the AWE systems install, Figure 6

Confirm that the front section is disconnected and remove the OEM exhaust system from the vehicle.
**STEP 7**

*Reinstalling the factory exhaust hangers:*

All of the exhaust hanger brackets on the v8 models can be reinstalled into their factory locations.

For the Eco boost models, both rear hangers, previously removed in steps 5 and 6 can be reinstalled. Reinstall the hanger bracket marked (a) in Figure 7. The front-most hanger bracket denoted (b) will not be re-used.

![Figure 7](image)

**STEP 8**

*AWE Performance Resonator Section:*

Begin by installing the new AWE resonated inlet section (C10) or non resonated inlet section (C11) with the factory front flange hardware as shown in Figure 8-1

**NOTE:** The Performance mid-section includes an adapter (part C14) to be used with the 164” wheelbase vehicles shown in Figure 8-2. This part is may not be required for all vehicles.

![Figure 8-1](image)

![Figure 8-2](image)

**STEP 9**

It is crucial to install each section and Accu-Seal clamp correctly to prevent loose joints, exhaust leaks between the tubing connections, and rattles.

*Arrow A* in Figure 9 shows the expanded pipe and the preinstalled Accu-Seal clamp being brought up to the corresponding pipe.

*Arrow B* in Figure 9 shows the overlapping pipe installed correctly over the corresponding pipe.

*Arrow C* in Figure 9 shows the Accu-Seal clamp being brought to the edge of the expanded pipe.

**NOTES:**

- Do not torque any Accu-Seal clamp until the entire exhaust has been installed and adjusted.
- Torque specification is a minimum of 60 ft/lbs.
**STEP 10**

**AWE Axle-Back Exhaust System:**
Installation of the AWE axle-back system requires the use of the axle-back adapter (C12). This adapter will attach to the factory resonator section and fastened using the connected factory clamp shown in Figure 8-2.

Install the AWE Mid Section (part C15) by securing the hanger bars into their respective brackets, then slip one of the supplied 3.0” Accu-Seal clamps over the inlet end and connect it to the outlet of the preceding tube. Figure 9

**NOTE:** If installing the axle-back system, use the

**IF INSTALLING THE DUAL OUTLET SYSTEM, SKIP TO STEP 13**
**IF INSTALLING THE SINGLE OUTLET SYSTEM CONTINUE TO STEP 11**

**STEP 11**

Continue by installing the single outlet axle-tube (part C16). Slide a 3.0” Accu-Seal clamp over the inlet end of the axle tube (a) and connecting it to the outlet of the mid section. Secure the tube into its factory hanger (b). Figure 11

**STEP 12**

Install the single outlet rear merge (part C17) onto the axle tube using one of the supplied 3.0” Accu-Seal clamps, make sure to put the clamp on the tube before sliding the merge on. Figure 12

**SKIP TO STEP 19 FOR TIP INSTALLATION INSTRUCTIONS**
Before the rear axle tubes can be installed, the new universal hangers (part C24) must be installed.

Start by installing the supplied bolts into the threaded backer bracket (part 110035), shown in Figure 14-1. Make sure these are securely fastened.

Locate the holes that the bracket is inserted into. These holes are the same on each side and have two indicators of their location, the welded frame support (a) and the triangular cutout in the frame (b), Figure 14-2. Insert the backer bracket into the designated spot, Figure 14-3.

Slide the universal hanger bracket into place and thread on the lock washers and nuts (Figure 14-4). Repeat on both sides of the vehicle.

**NOTE:** Ensure that the universal hanger bar is pointing towards the inside of the frame and spare tire.
STEP 15

Install the rear axle tubes, Drivers side (part C19) and passenger side (part C20). Use the supplied 3.0” Accu-Seal Clamps (a) and rubber exhaust isolators (b) shown in Figure 15.

If installing the dual outlet exhaust the rear factory hanger will not be used. It can be removed, but it will not be in the way of the AWE system.

IF INSTALLING THE REAR EXIT EXHAUST SYSTEM, SKIP TO STEP 17
IF INSTALLING THE SIDE EXIT EXHAUST SYSTEM CONTINUE TO STEP 16

STEP 16

Install the rear tip outlets for the system onto the rear axle tubes using the provided 3.0” Accu-Seal clamps. Figure 16

The two tip outlets (part C21) are not side specific

SKIP TO STEP 19 FOR TIP INSTALLATION INSTRUCTIONS

STEP 17

Install the drivers side tip outlet (part C22) for the system onto the drivers side rear axle tube using the provided 3.0” Accu-Seal clamp. Figure 17. Repeat for the passenger side tube (part C23).
STEP 18

Install the exhaust hanger split collars and included Allen wrench to help keep the exhaust system aligned and secure. Install these clamps in the orientation shown in Figure 18.

STEP 19

**AWE exhaust system tip installation:**

For single side exit exhaust systems, install the tips using two of the supplied 3-inch Accu-Seal clamps (TAS300) to the same specifications outlined in Step 9.

For dual side tip outlets, use the supplied 3-inch Accu-Seal Clamps (TAS300) to install the 5” straight cut tips to the same specifications outlined in Step 9.

ENJOY!
Once installed properly, your AWE exhaust will provide years of trouble-free performance. The exhaust volume and sound will settle with usage; 800-1000 miles is required to break-in new exhaust systems.

Also, please note that the rear 180Technology® resonator has a small drain hole to allow condensation to escape. Water drops from this area are normal.

Periodic cleaning of exhaust tips is necessary to maintain proper finish, especially in areas prone to road salt and caustic deicing solutions. Use a mild soap and water solution or car wax to clean the finish. Avoid using abrasive polishes, as they can scratch the finish.

Any questions or comments, please do not hesitate to contact us:

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Horsham, PA 19044
215-658-1670
CONTACT FORM

Up-to-date warranty information is found HERE.