

***advanced FLOW engineering*** BladeRunner – Transmission Oil cooler  
**Instruction Manual** P/N: 46-80009

Make: Toyota

Model: Tundra

Year: 22-24

Engine: V6-3.4L (tt)



- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- For technical support please call 951-493-7185.
- Ensure you have all necessary tools before proceeding.
- Do not attempt to work on your vehicle when the engine is hot.
- Retain factory parts for future use.

Label	Qty.	UoM	Description	Part Number
A	1	ea.	Oil Cooler: 46-80004	05-60934
B	1	ea.	Bracket, Upper Mount: 46-80009	05-61535
C	1	ea.	Bracket, Lower Mount DS: 46-80009	05-61536
D	1	ea.	Bracket, Lower Mount PS: 46-80009	05-61537
E	48	in.	Hose, Fuel: Gates 3/8"	05-60506
F	48	in.	Hose, Fuel: Gates 3/8"	05-60506
G	4	ea.	Clamp, Mini 006 (7/16" - 25/32")	03-50025
H	8	ea.	M6 x 20mm Screw, Button Head	03-50241
J	8	ea.	M6 Hex Nut	03-50059
K	2	ea.	Cap, Vinyl: For 0.38" to 0.44" Dia X 0.75"H	03-50836
M	2	ea.	Fitting, 3/8" Barb to AN -8 Female, Blk	03-50767
N	8.5	in.	Trim, Rubber Edge: 1/16"	05-00149
P	6	ea.	Ties, Nylon Cable: 12", 50 lb. Black	05-60167

**Installation will require the following tools:**

1/4", 8mm, 10mm sockets, trim removal tool, 10mm wrench, small picks, ratchet, extensions, wire cutters, 4mm allen, pliers

Warranty Information available at <https://afepower.com/contact#warranty>

**Emissions Disclaimer:** This product does not require a carb exemption.




**Figure A**

### **Refer to Figure A for Steps 1-5**

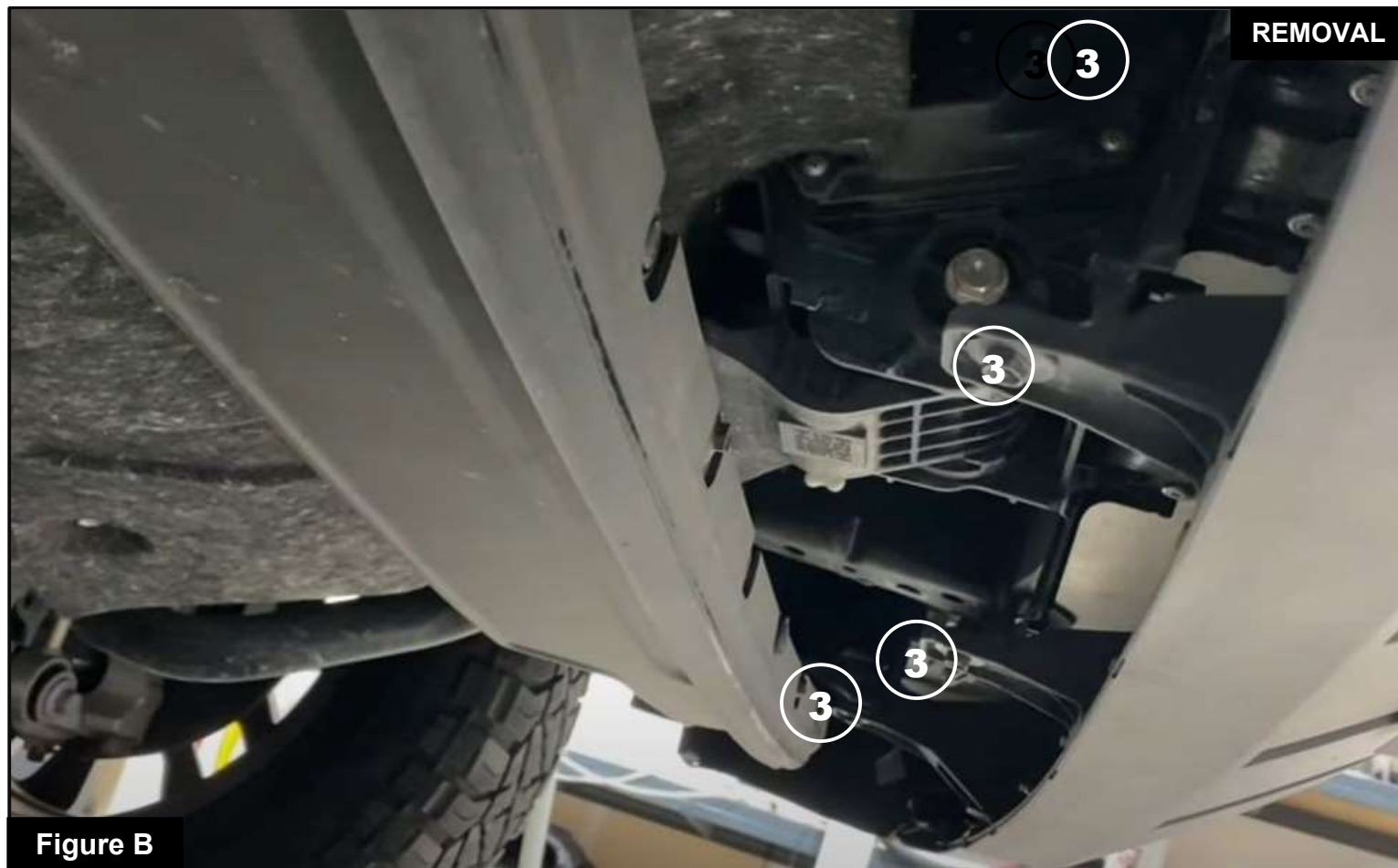
Step 1: If equipped, Put the Active Aero Front Spoiler into the service position by keying the vehicle off and then raising and holding the wiper stalk in the upward position for about two seconds.

Step 2: Disconnect the negative battery cable.

Step 3: Remove the screws securing the inner fender liner and/or flare onto the front bumper on each side

①.

Step 4: If equipped, pop out the fender flare from the front clips securing it to the bumper on each side ②.



### **Refer to Figure B for Step 5**

Step 5: Remove the four screws securing the bottom of the bumper from underneath the vehicle (3.)





**Figure C**

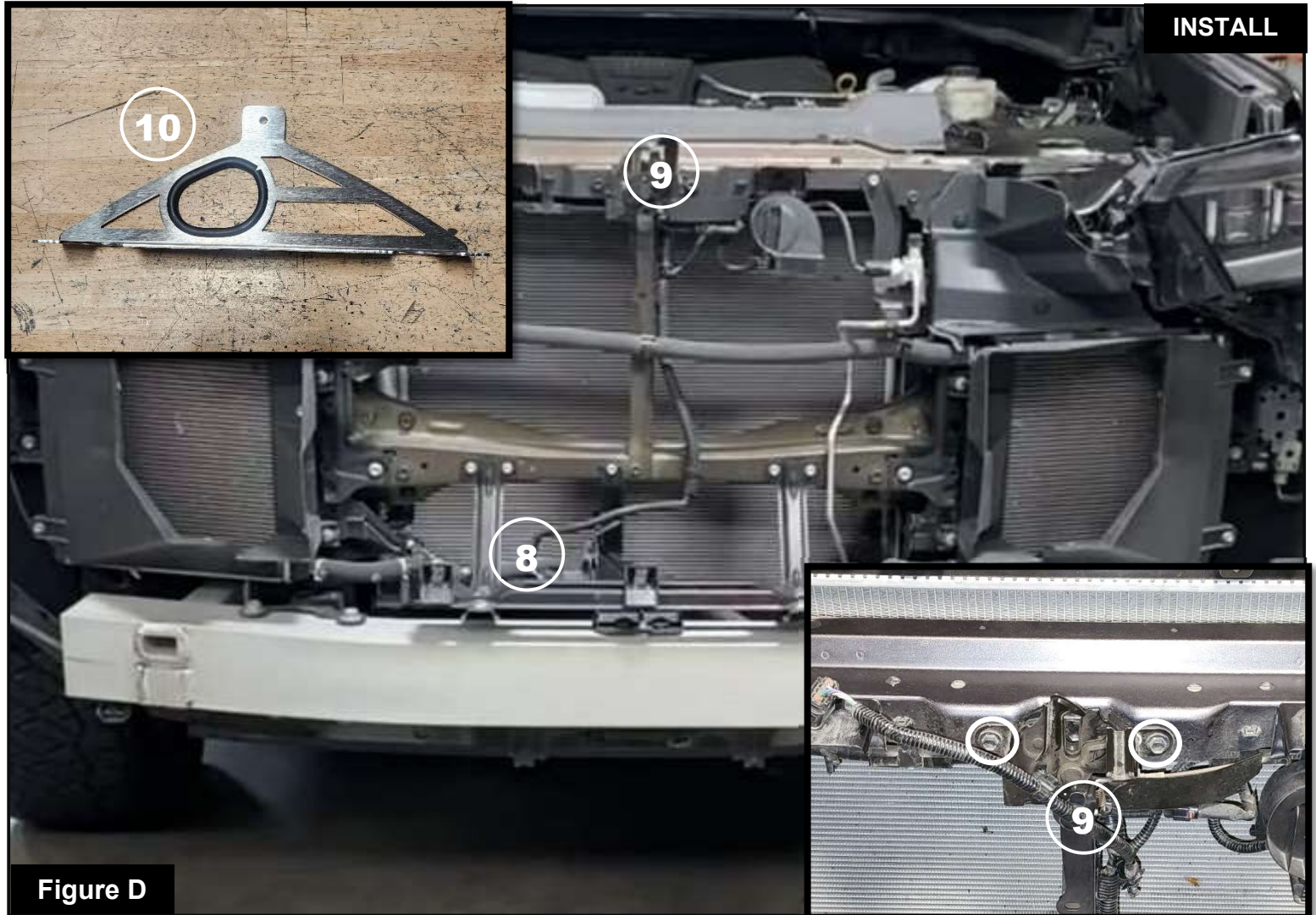
### **Refer to Figure C for Steps 6-9**

Step 6: Disconnect the connectors at the top of the bumper next to the top of the headlights on each side (4.)

Step 7: Remove the two clips and four screws securing the top of the bumper (5.)

Step 8: Pop out the sides of the bumper working your way from the fender well to the headlight on both sides (6.)

Step 9: With some help, remove the front bumper from the vehicle by firmly pulling the center of the grille straight forward to release the clips located the directly behind the grille (7.)



**Figure D**

### **Refer to Figure D for Steps 10-14**

Step 10: Disconnect the electrical connector on the Active Aero Front Spoiler motor and unclip the wire harness running up the center support of the core support (8.)

Step 11: Mark the location of the top two screws securing the hood latch with a marker.

Step 12: Remove the hood latch from the core support and set aside (9.)

Step 13: Remove the top screw from the center support brace.

Step 14: Install the supplied trim seal onto the rounded opening on the aFe POWER upper oil cooler bracket (10)



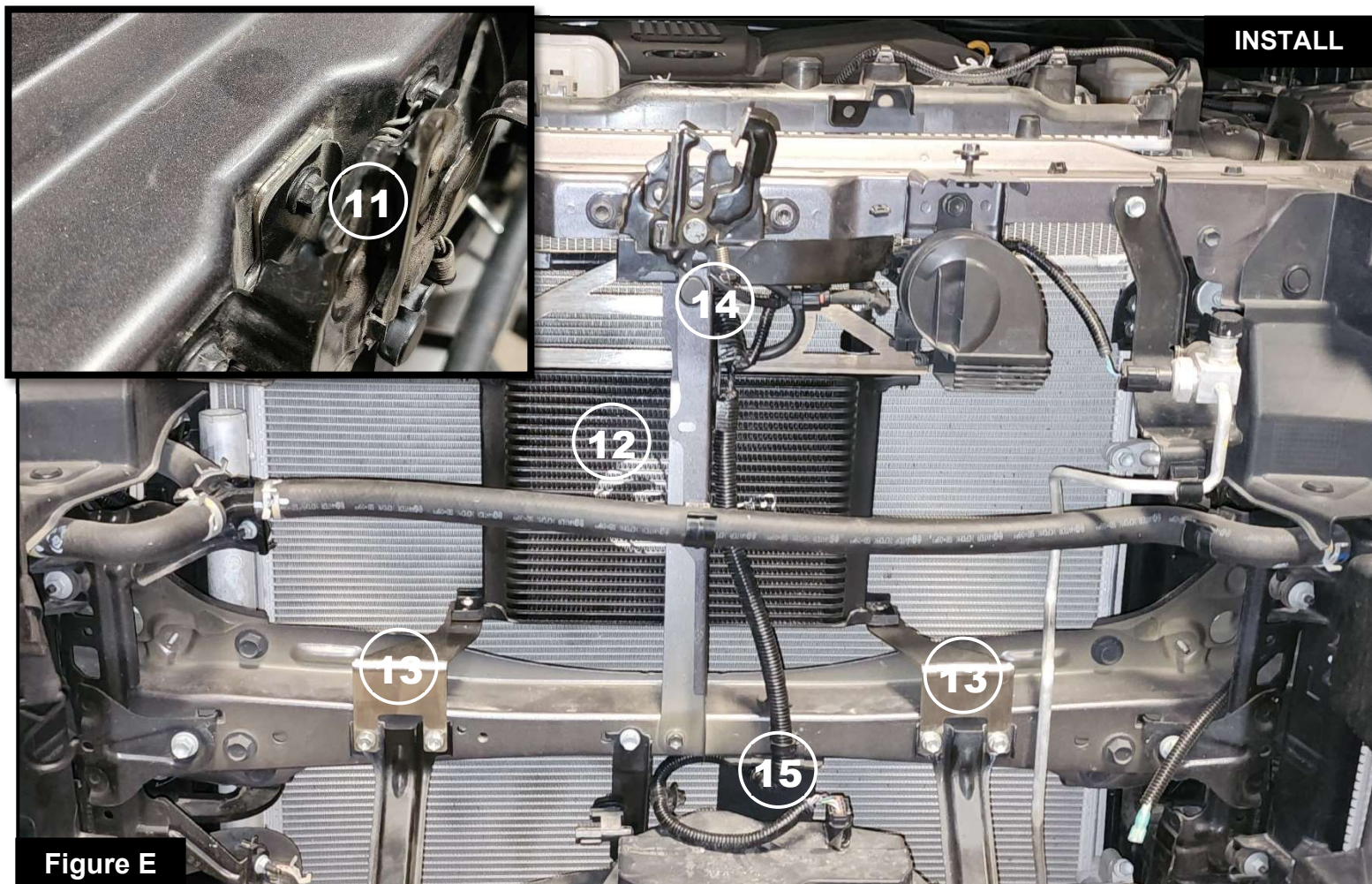


Figure E

### **Refer to Figure E for Steps 15-21**

Step 15: Sandwich the aFe POWER upper oil cooler bracket between the center support brace and the core support and reinstall the factory screw, do not tighten yet (11).

Step 16: Install the supplied 3/8" Barb to AN-8 adaptors onto the aFe Power transmission oil cooler.

Step 17: Install the aFe POWER oil cooler onto the upper bracket with the supplied screws and nuts, do not tighten yet (12)

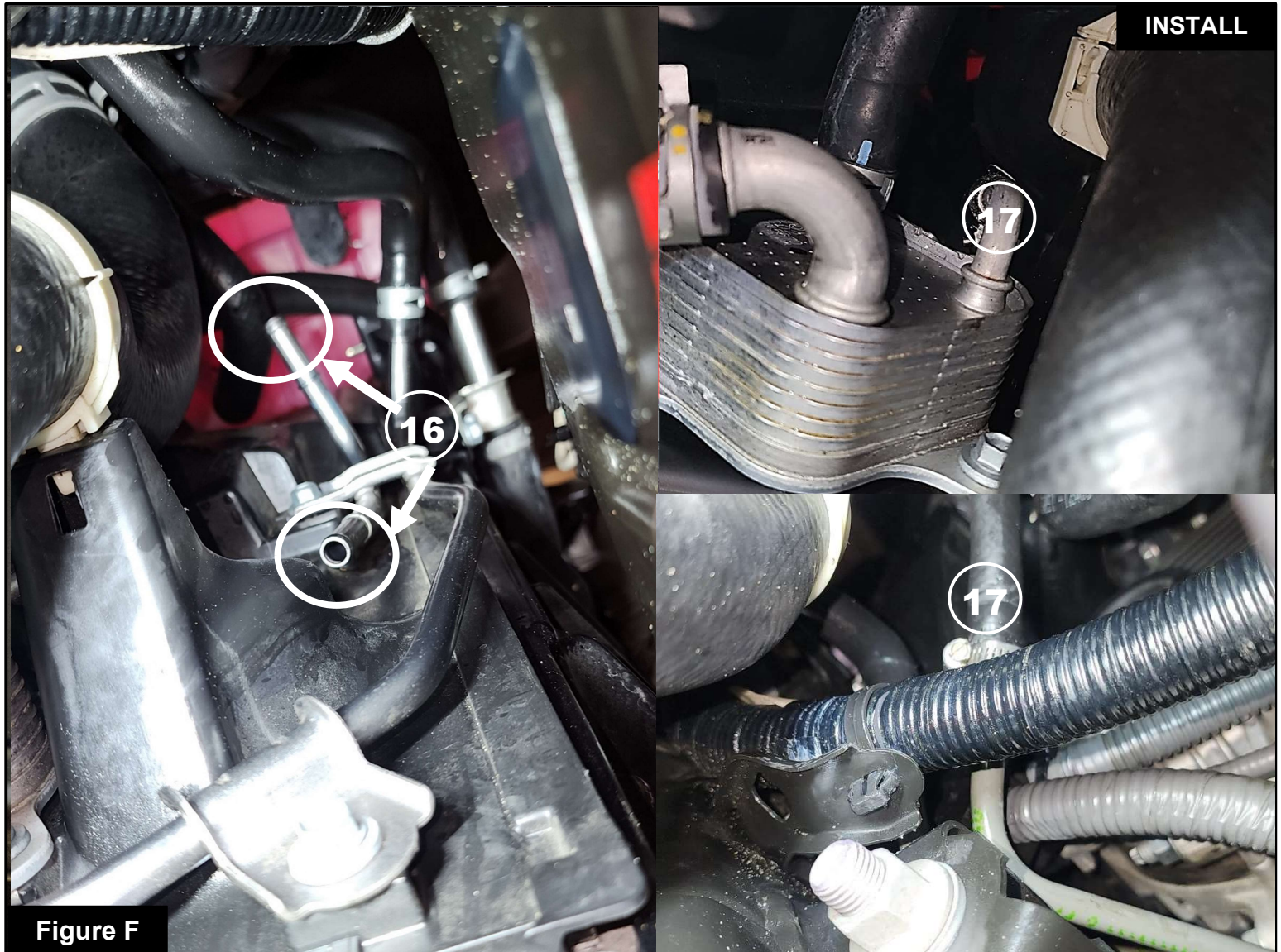
Step 18: Install the aFe POWER lower oil cooler brackets onto the vehicle using the factory screws for the lower bumper supports as shown above (13)

Step 19: Secure the aFe POWER oil cooler to the lower brackets and tighten all the mounting screws.

Step 20: Run factory wire harness through the opening on the bracket with the trim seal on it and secure the harness to the center support brace, then install the hood latch (14).

Step 21: Reconnect the active air front spoiler connector (15).





### **Refer to Figure F for Steps 22-27**

Step 22: From underneath the vehicle, remove the splash shield or skid plate.

Step 23: Place a small drain pan underneath the vehicle just to catch a small amount of oil that will be lost.

Step 24: Remove the two hoses at each end of the metal transmission cooler line circled above (16).

Step 25: Place the supplied caps over the ends of the factory metal line circled above.

Step 26: Run the supplied cooler hoses from the aFe POWER transmission cooler up top, down to where the factory hoses were disconnected from in Step 24. Secure all hoses with the supplied hose clamps (17).

Step 27: Use the supplied zip ties to secure the new oil cooler hose to the vehicle so they do not move.





**Figure G**

### **Refer to Figure G for Steps 28-35**

Step 28: Reinstall the front bumper.

Step 29: Reconnect the top electrical connectors, screws, and push clips near the top of the headlights (18)

Step 30: Snap the bumper and flare back into place around headlights and fender well and secure with screws.

Step 31: Reinstall lower bumper mounting screws.

Step 32: Reinstall skid plate / splash guard.

Step 33: Use the proper factory procedure to check the transmission fluid level, top off if needed.

Step 34: Reconnect negative battery cable.

Step 35: Installation is now complete.

**Note: Be sure to check all connections after 50/100 miles.**



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