

### C7 S6 Heat Exchanger Upgrade Kit



034Motorsport's heat exchanger upgrade for the C7 S6 4.0T is the new standard in performance; engineered to provide better and more efficient cooling of the charge air.



(Hot)

Estimated time of completion: 4-6 hours

#### **Tools Needed:**

- Hands (2) (Opposable thumbs are required!)
- 13mm socket
- 8mm socket
- T25 Torx
- T30 Torx
- Adjustable wrench
- Electric drill
- 1/8" drill bit
- 5mm Allen wrench
- 4mm Allen wrench
- 3/16" Allen wrench
- Pliers or Spring Clamp Pliers



### Supplied Parts:

- Heat exchanger assembly
- Diverter plate
- (2) 25x3 o-ring
- (2) cap plate
- (8) M6x10 hex head drive flat head screw
- Mounting bracket (LH + RH)
- (8) self-tapping screw
- (4) M8x14 button head cap screw
- (4) M8 lock washer
- 90deg -10AN o-ring barb fitting
- Straight -10AN o-ring barb fitting
- (2) -10AN o-ring plug
- 90deg silicone hose
- Straight silicone hose
- (4) 16x25 worm drive hose clamp
- Air block off plate (LH + RH)
- (2) 1-1/4" grommet
- (2) hose coupler
- 8" zip-tie
- Zip-tie anchor

### About This Guide

This Install Guide documents the installation process of the 034Motorsport's Heat Exchanger Upgrade Kit (034 H.E.) on a 2015 Audi S6. There may be other minor differences with your vehicle depending on specific vehicle, market, options, etc. Some photos were borrowed from the B8 S4 instructions

### Getting Started

- Ensure you have all parts and tools required for installation by reading the complete Install Guide.

### Step 1

Raise car off the ground, either with a lift, or a jack and jack stands. When using a jack, **ALWAYS** use jack stands. Being crushed by your car will put a real damper on your day

### Step 2

Remove the front bumper cover, front wheels, and belly pan



### Step 3

Remove Radiator and Intercooler shrouds





### Step 4

Place a catch pan underneath the car. Using pliers or spring clamp pliers, disconnect coolant lines from the stock heat exchanger.  
Remove OEM H.E. with T30 Torx bit



### Step 5

Disconnect outside air temp sensor and horn from both sides



Start assembly of the 034 H.E. :

\*Decide if you want the large 034 logo on display or hidden, as this will determine orientation. We put ours facing forward, obvi\*

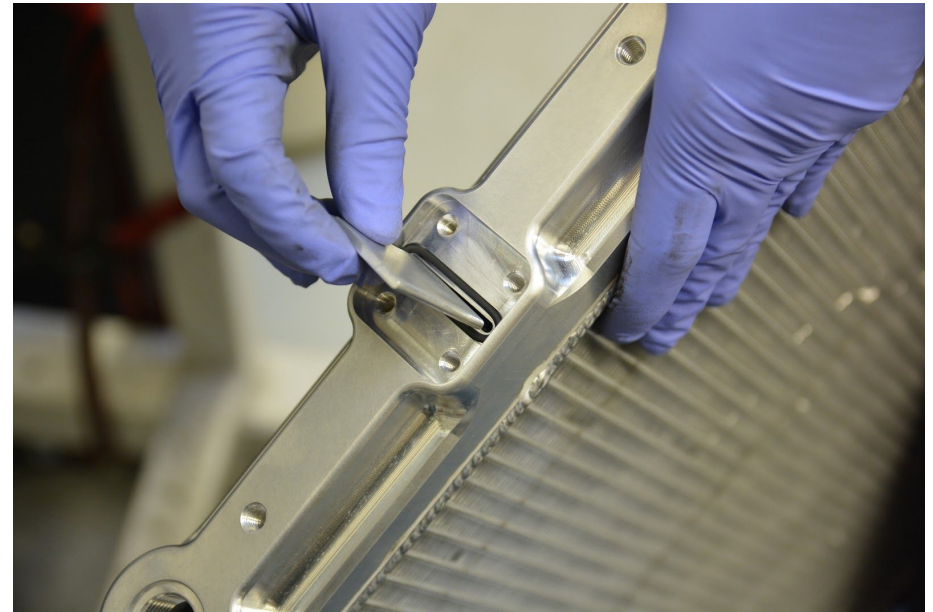
### Step 6

Install the 25mm o-ring into both end tanks.



### Step 7

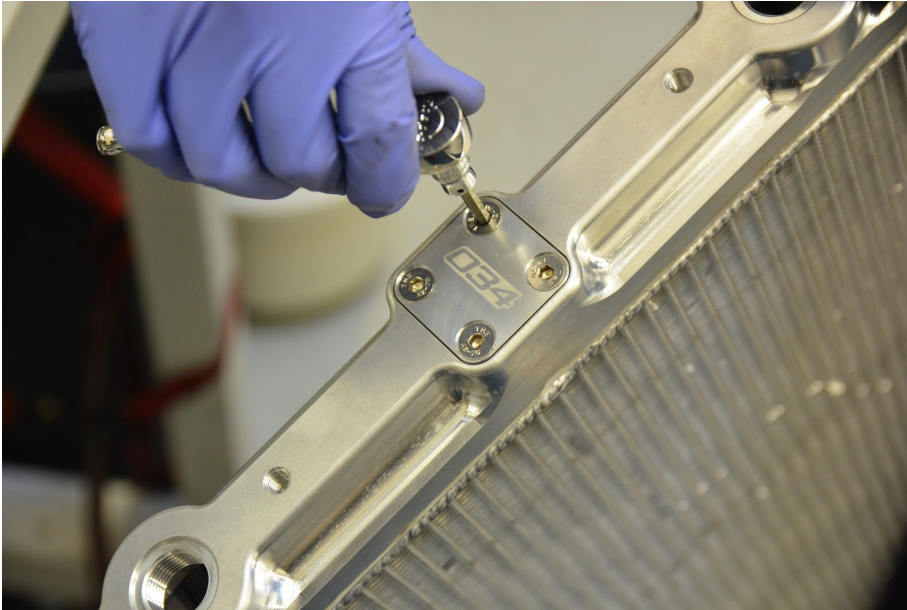
Install diverter plate into left-hand side end tank.





**Step 8**

Install cap plates, torquing the M6 flat head screws to 12NM.

**Step 9**

Install -10AN plugs onto the right side end tank.



**Step 10**

On the left-hand end cap, install 90deg -10AN barb fitting into the upper threaded hole, orientated downward. Install straight -10AN barb fitting on lower threaded hole

**Step 11**

Install mounting brackets using the M8 button head cap screws and split lock washers, with the 90deg tab sitting above the cap plates (horizontal mid-point)





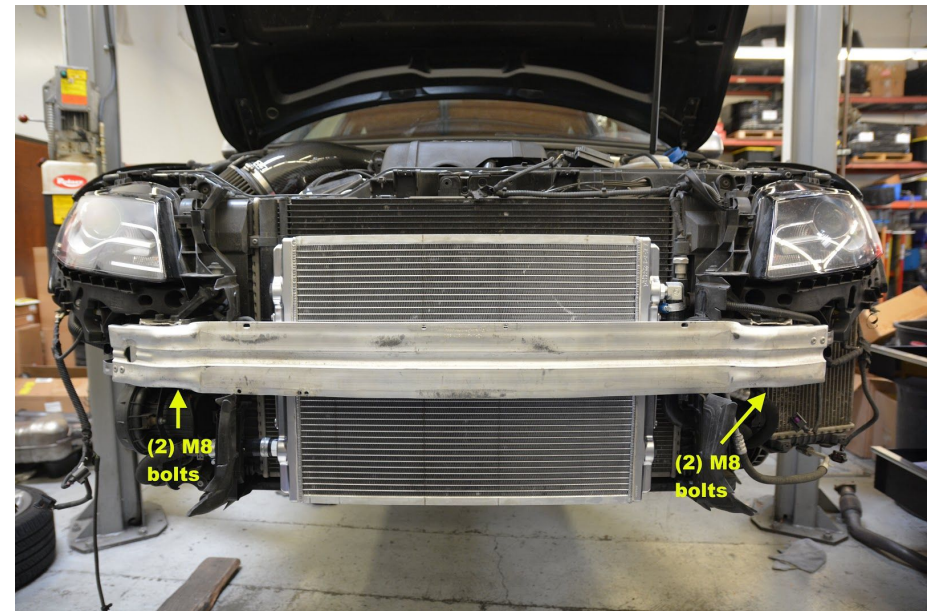
### Step 12

Slide the 034 H.E. into position for a mock up, centering in the middle. Mark the edges of the mounting bracket with a marker or scribe on backside of the bumper bar



### Step 13

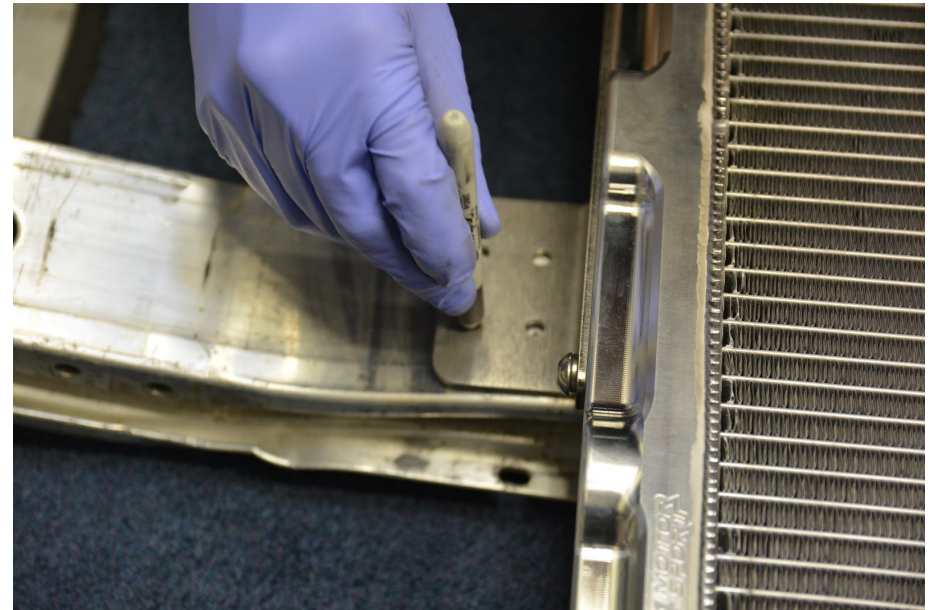
Using a 13mm socket, remove M8 bolts from the bumper bar mounting bracket, and remove bar. (May require a pry bar)





### Step 14

Set the bumper bar face down, and place the 034 H.E. over the backside, aligning with markings from Step 7. Mark all (8) holes from bracket onto bumper bar



### Step 15

Pull off 034 H.E. and center punch the (8) dots to make drilling easier

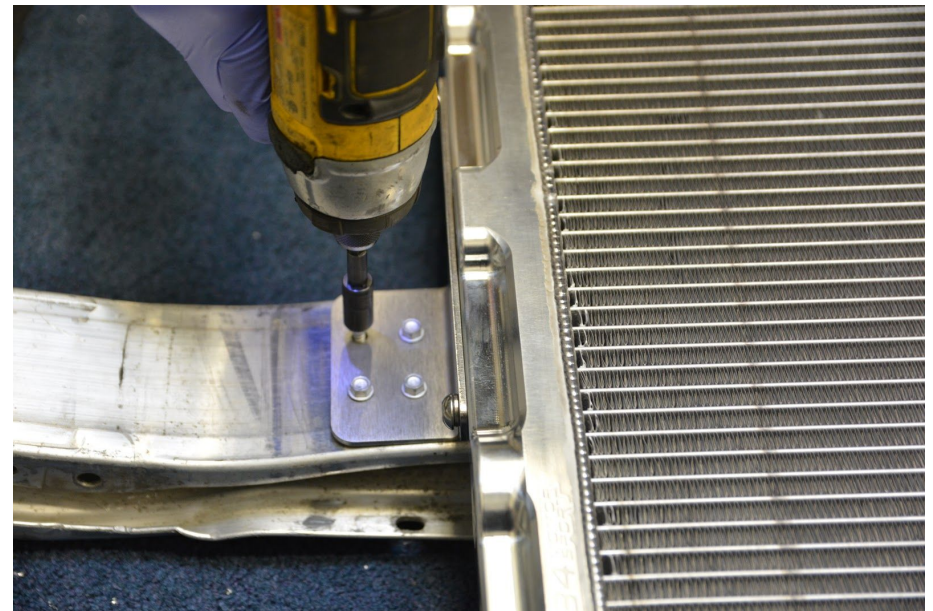


### Step 16

Using an 1/8" drill bit, drill out the holes

### Step 17

Re-align 034 H.E. into position, and mount it to the bumper bar using the (8) self-tapping screws



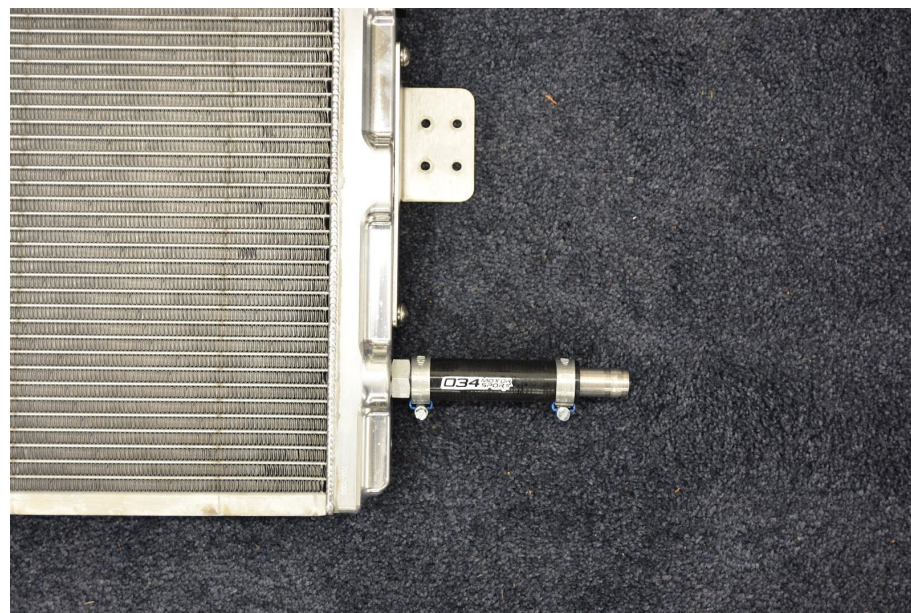


**Step 18**

Install 90deg silicone hose onto upper 90deg barb fitting using a worm drive hose clamp, and install hose coupler using another hose clamp

**Step 19**

Install the straight silicone hose onto the straight -10AN barb fitting using a hose clamp. Insert hose coupler, secure with another hose clamp





**Step 20**

Drill 3/16" hole through bumper bar and mounting bracket for zip-tie anchor on the left side (where the hoses are)

**Step 21**

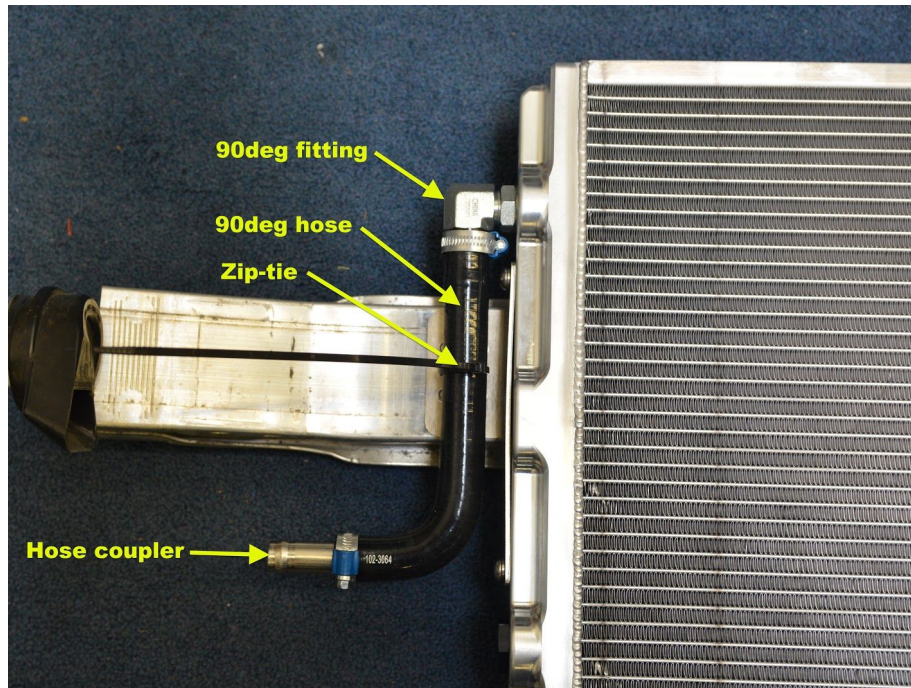
Insert zip-tie anchor, and install zip-tie.





### Step 22

Loosely secure 90deg silicone hose to bumper bar with the zip-tie



### Step 23

Using a 13mm socket, reinstall the bumper bar/ 034 H.E. back onto the car



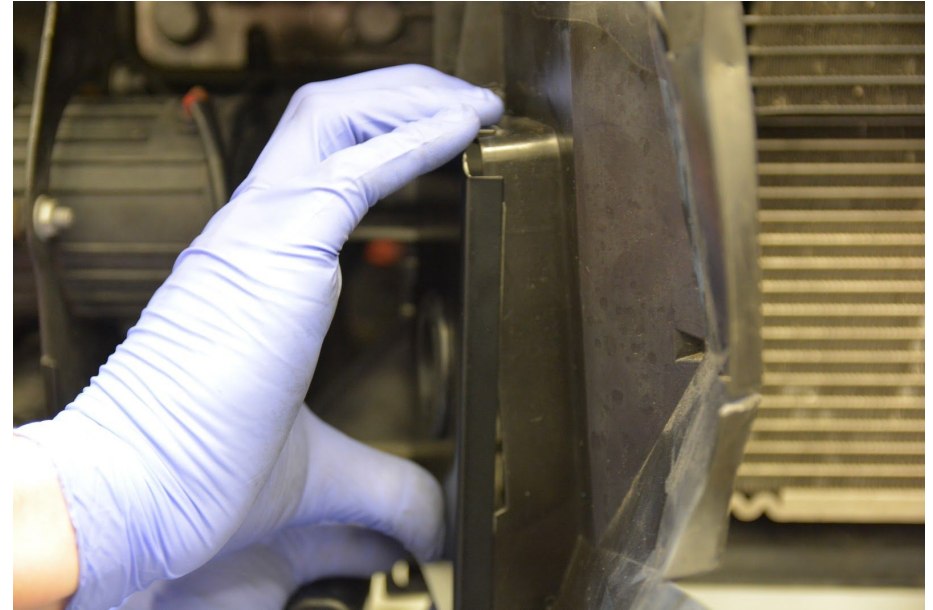
(Make sure surfaces are dry and clean for optimal tape adhesion)

**Step 24**

Remove tape backing from the solid plate, and mount to the outside of the air deflector on the right side

**Step 24.5**

Press firmly, covering the large opening



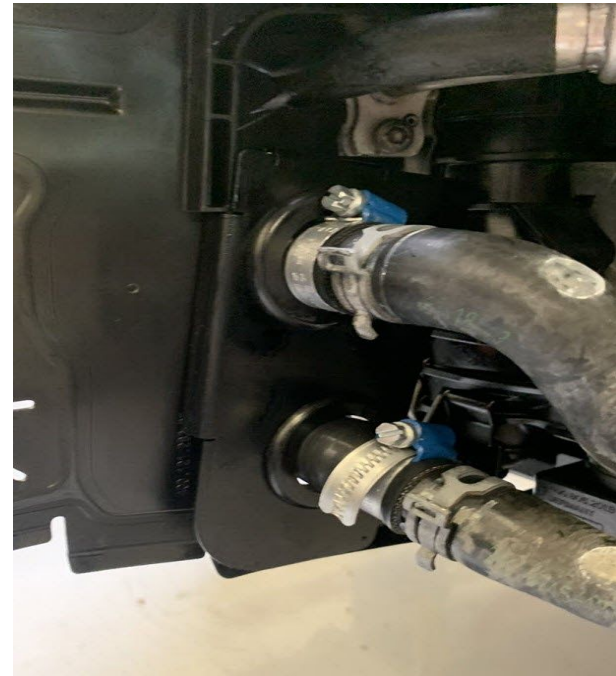


**Step 25**

Install the (2) 1.25" grommets onto the left-hand air block off plate.

**Step 26**

Remove tape backing and mount to the outside of the air deflector on the left side, covering the large opening. Slide silicone hoses through the two holes and press plate firmly in place

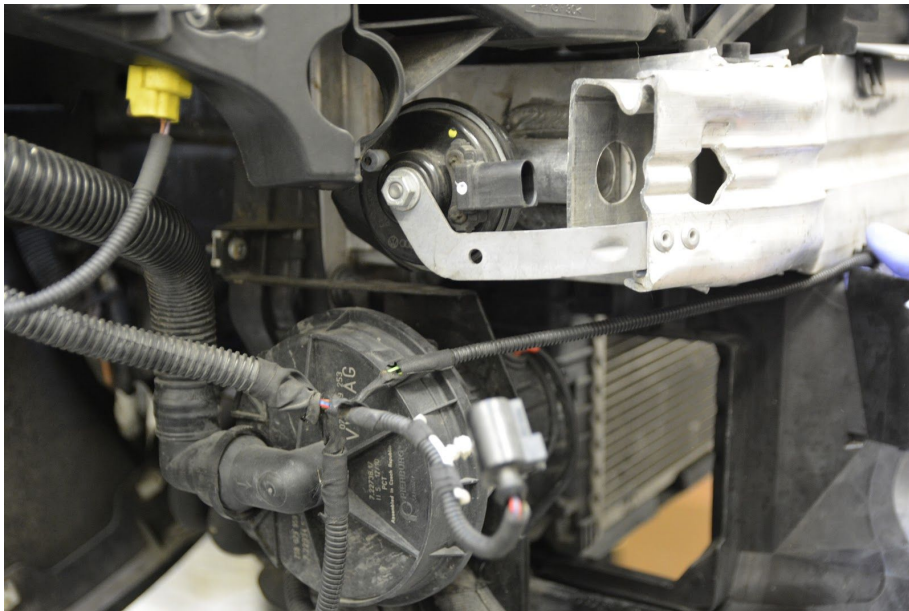


### Step 27

Connect coolant lines to hose couplers using hose clamps

### Step 28

Reconnect outside air temp sensor and horn



### Step 29

Reinstall intercooler and radiator air ducts

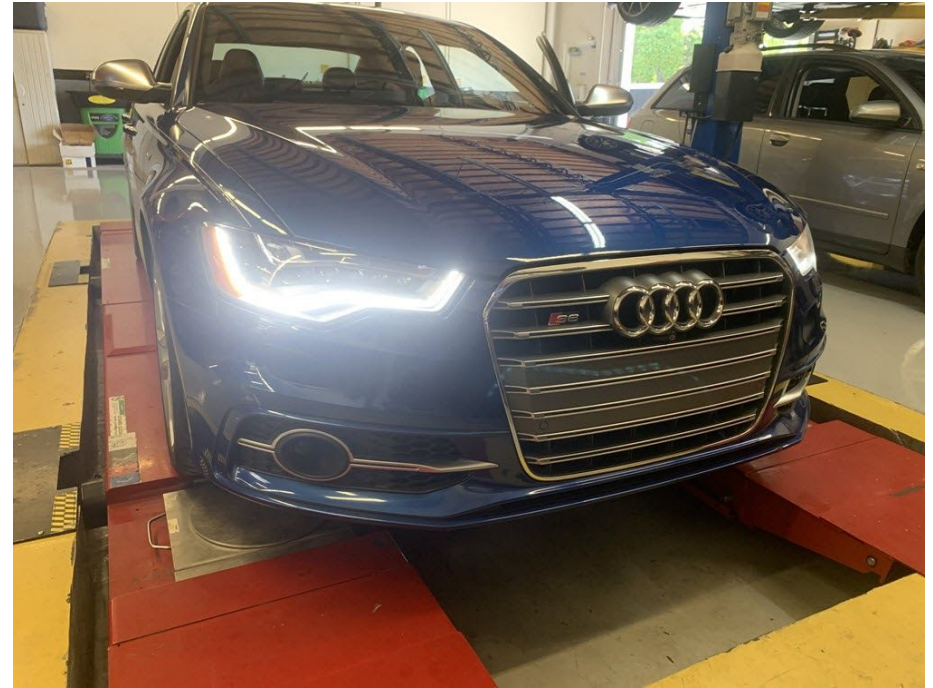
### Step 30

Fill and bleed coolant, and check for leaks



### Step 31

Return front wheels, bumper and belly pan



### Step 32

That's it! You are done! Enjoy!