



TheRock's - Jaguar F-Type R Spark Plug DIY

As always, this is how I did it and not suggesting you do it this way or any other specific way. Do so at your own risk and in any fashion you choose to do it. This guide is simply in the spirit of offering a method that worked for me.

Helpful Tools:

Various metric sockets, ratchets, extensions, Torx bits and wrenches. A small ratcheting bit driver like below is very helpful as well. I also cut down the Torx bit to make it shorter and it worked great.....16 Degree Wobble extensions and U joints also.... I made this one as you can tell and the tape is to keep the Allen wrench (cut) from coming out. I know it is funny looking 😊



Gaining Access and Performing the Work:

1. For this work, you do NOT need to raise the car...Just pop the bonnet/hood.



Gain Access

A.) Remove Engine Cover (if you have one still on). Just pops straight up off of some grommets.



B.) Remove Side Cover panels for additional access to coils/plugs.

1 - Left / Driver's Side

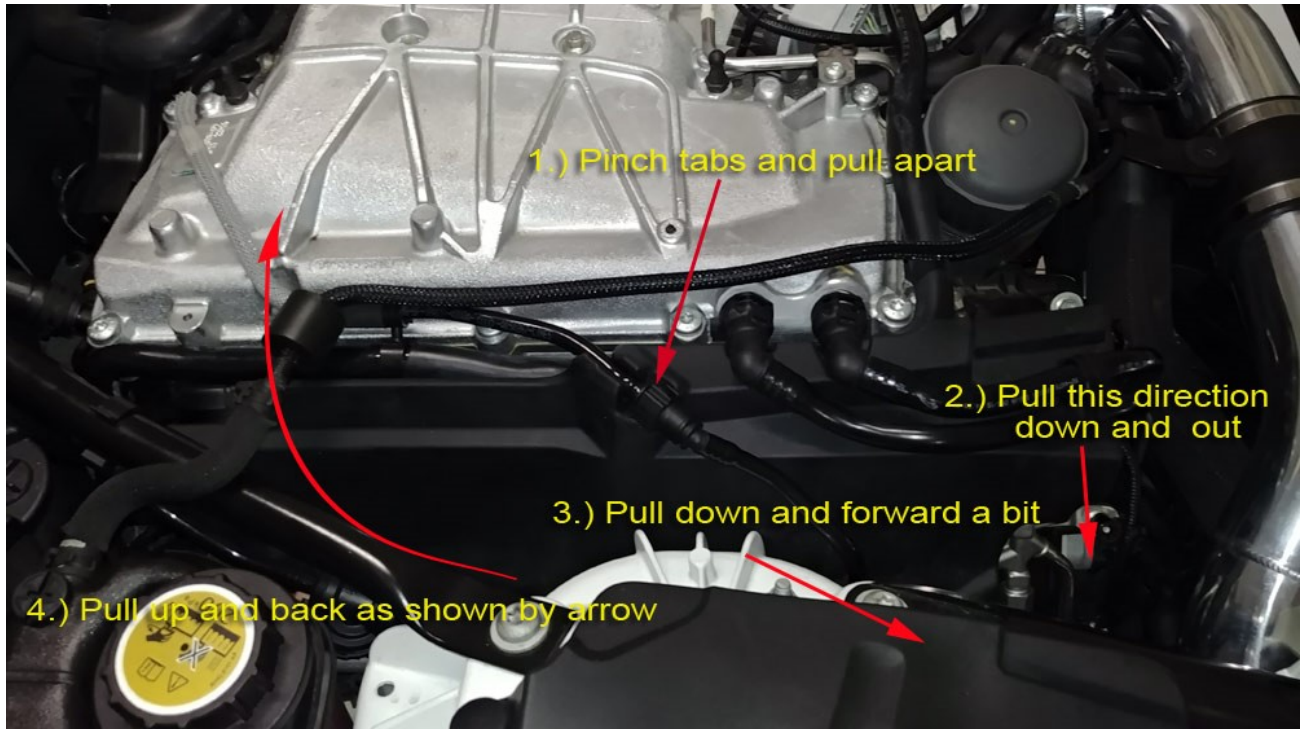


2 – Right / Passenger Side

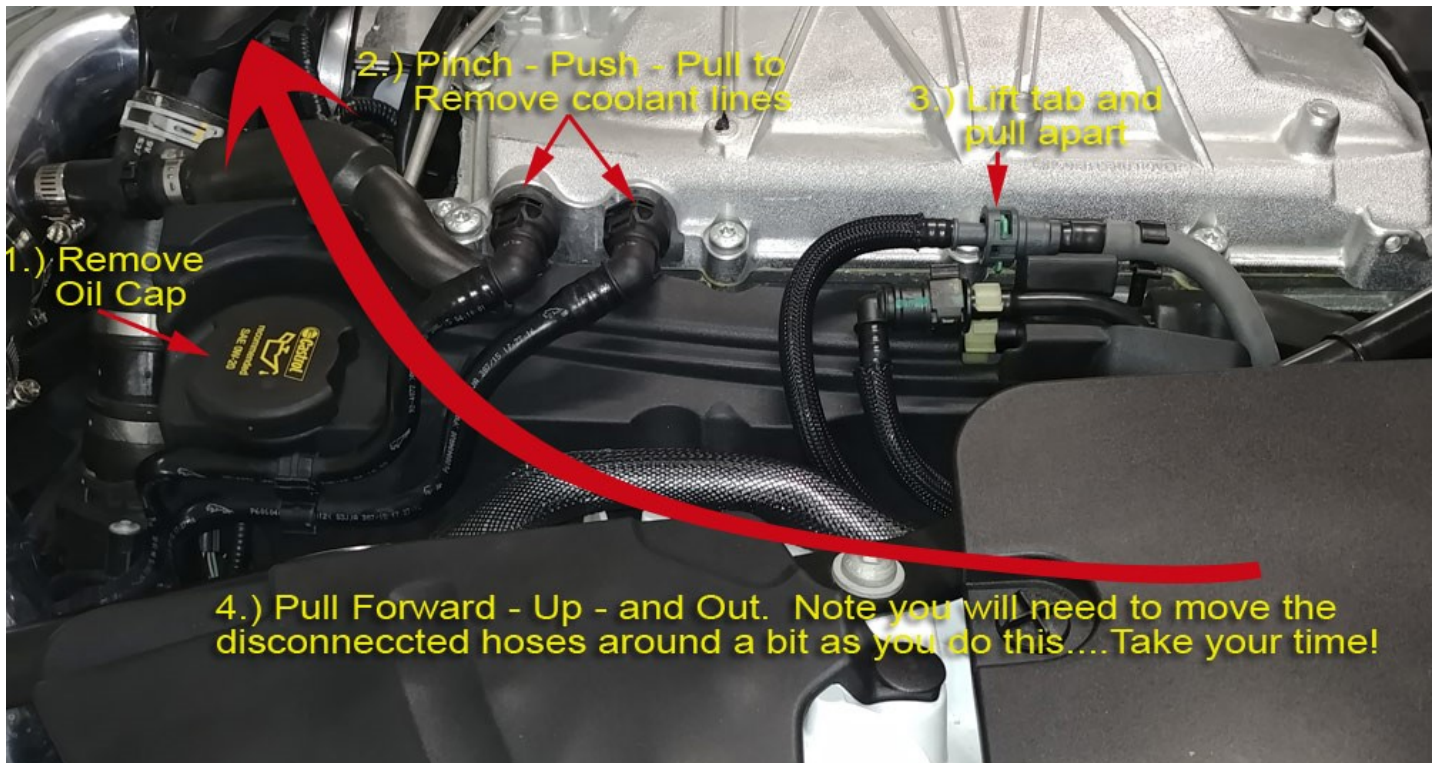


C.) Now we need to remove those crazy foam rubber heat shields. Note- you need to pull pretty hard as they are wedged in there. Just be mindful of your hoses/tubing as you do so to avoid breaking anything.

- 1.) Let's start with the Right/Passenger side as it is a bit easier. You simply need to unplug the vacuum line by pinching the tabs and pulling apart, Then pull back and forth and up to get out. You do NOT need to remove the coolant lines on this side. Take your time and move back and forth as you pull up and out. Be sure you do not kink or break any of the lines/hoses:



- 2.) Now let's do the same on the Left/Driver side. Similar process, except a few more hoses to disconnect, and a bit harder to pull out. Note it is a hard foam rubber so you can flex it quite a bit...*It AIN'T Gonna Break!* 😊 Again...Just be mindful of the hoses as you wiggle it out. Two images below to help on this side...It is the harder of the two. Also on the single line you disconnect in step 3, there will be a little gasoline that will come out. You may want to plug it while you work also.



Now you will be able to access and remove the coils and plugs!

Tip on plugging the coolant lines using rubber glove fingers....



Removing the coils and plugs – The actual task begins....

D.). Removing the coils and plugs – I would start on the Left/Driver side closest to the windshield and get the hard one out of the way. You will need a shallow ratcheting Torx driver tool as shown in the Tools section at the top of this document- Modified or not...And more below. I would also suggest using a magnet extension to retract and feed bolts in so you do not drop them. An option you may want to consider is to go ahead and remove the tray under the car before you start, so you can retrieve dropped items ☺ Illustrations below document the process, and you will need to repeat similarly for each plug. Do them one at a time, then move to next plug. Install in reverse order

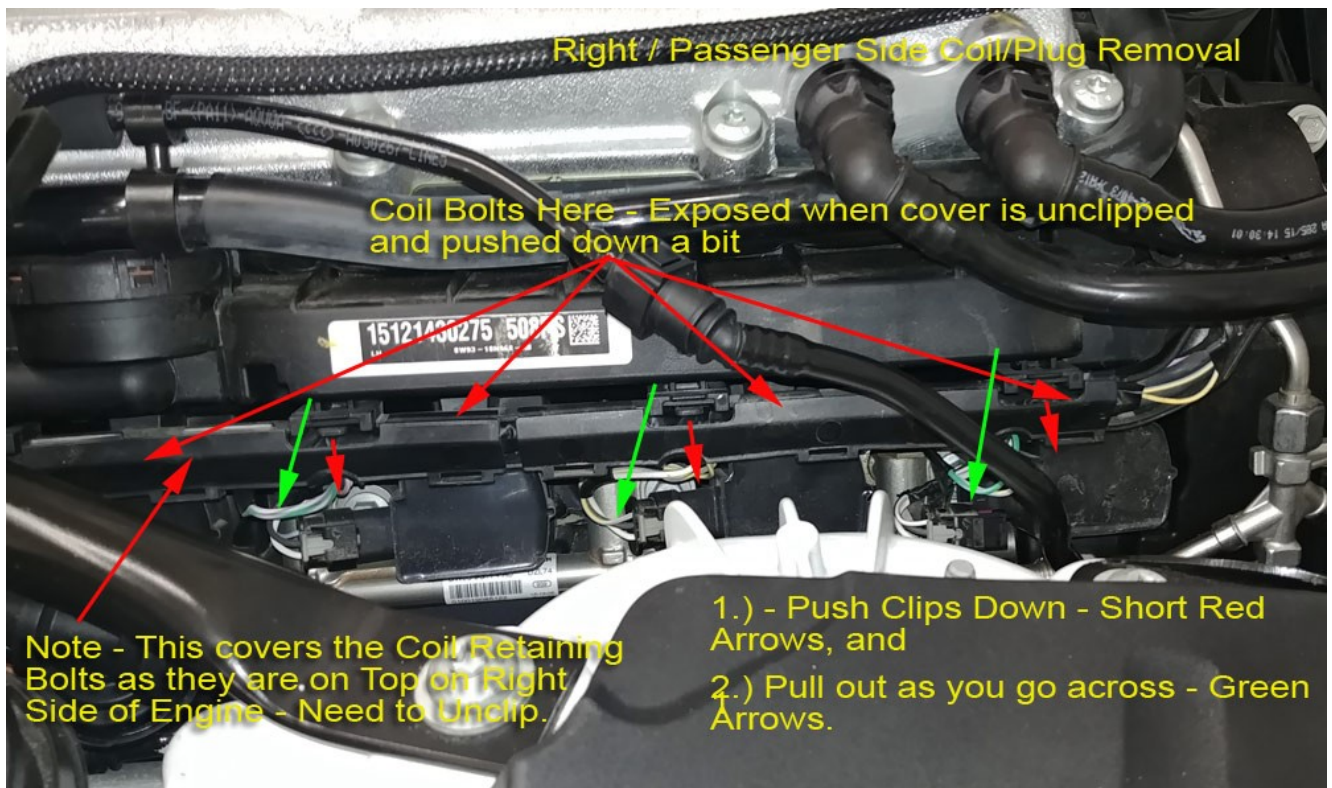
TIPS, Torques and Additional Info:

- 1.) Use a small ratcheting Torx bit holder
- 2.) Unclip the coil wires before loosening 0 You slide the gray clip back first, then push down on it and pull straight back to remove - See Pic below
- 3.) Coil packs are flexible and will have to be bent to remove. You may have to come out at an angle and be creative on some of them.
- 4.) Left/Driver side is more confined/difficult, so start there before you wear out.
- 5.) Have a variety of sockets, extensions available - Especially various length 16 degree (Wobble) extensions and some U-Joints
- 6.) Never start the plugs with a driver....Spin by hand to ensure no cross threading first, then attach the ratchet.
- 7.) Spark Plug Torque = 20NM or 15 LBFT – 14 MM Deep Socket / Spark Plug Socket
- 8.) Coil Retaining Bolt Torque NM or 71 LBIN (**Note NOT LBFT**) – T30 Torx Bit

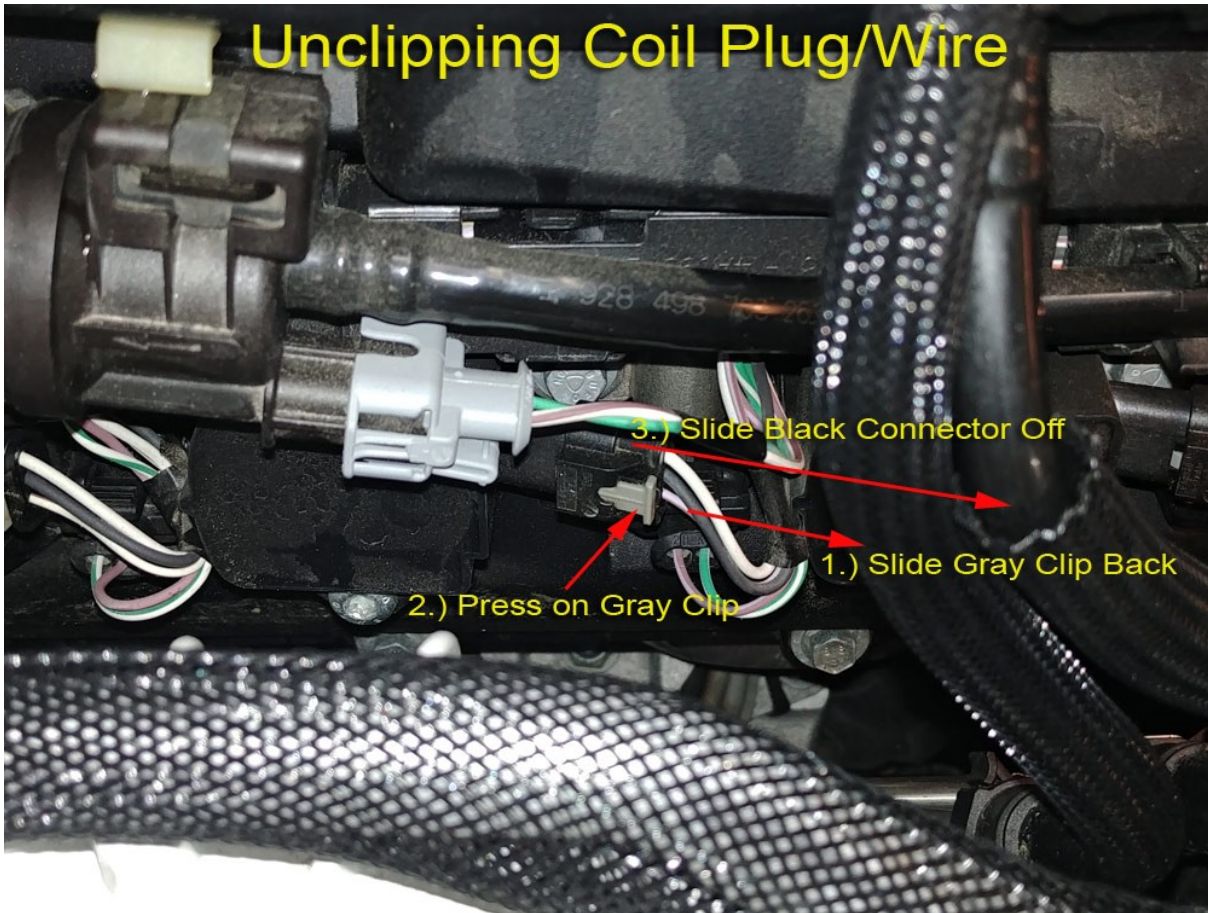
1.) Left / Drivers Side Coils / Plugs



2.) Right Passenger Side Coils / Plugs

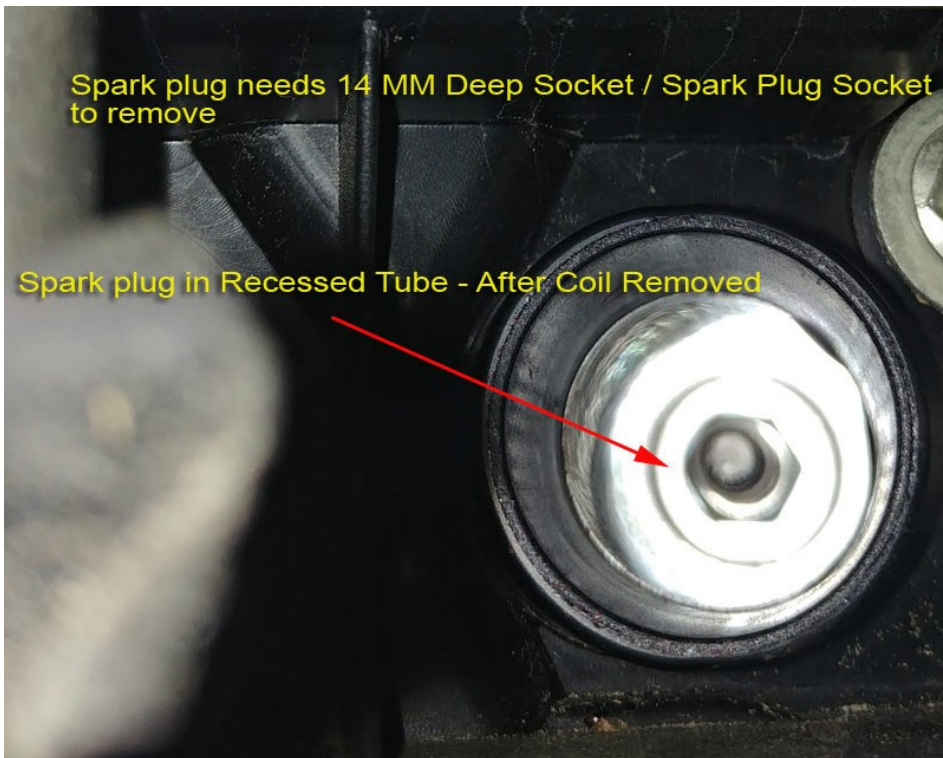


Unclipping Coil Plug/Wire

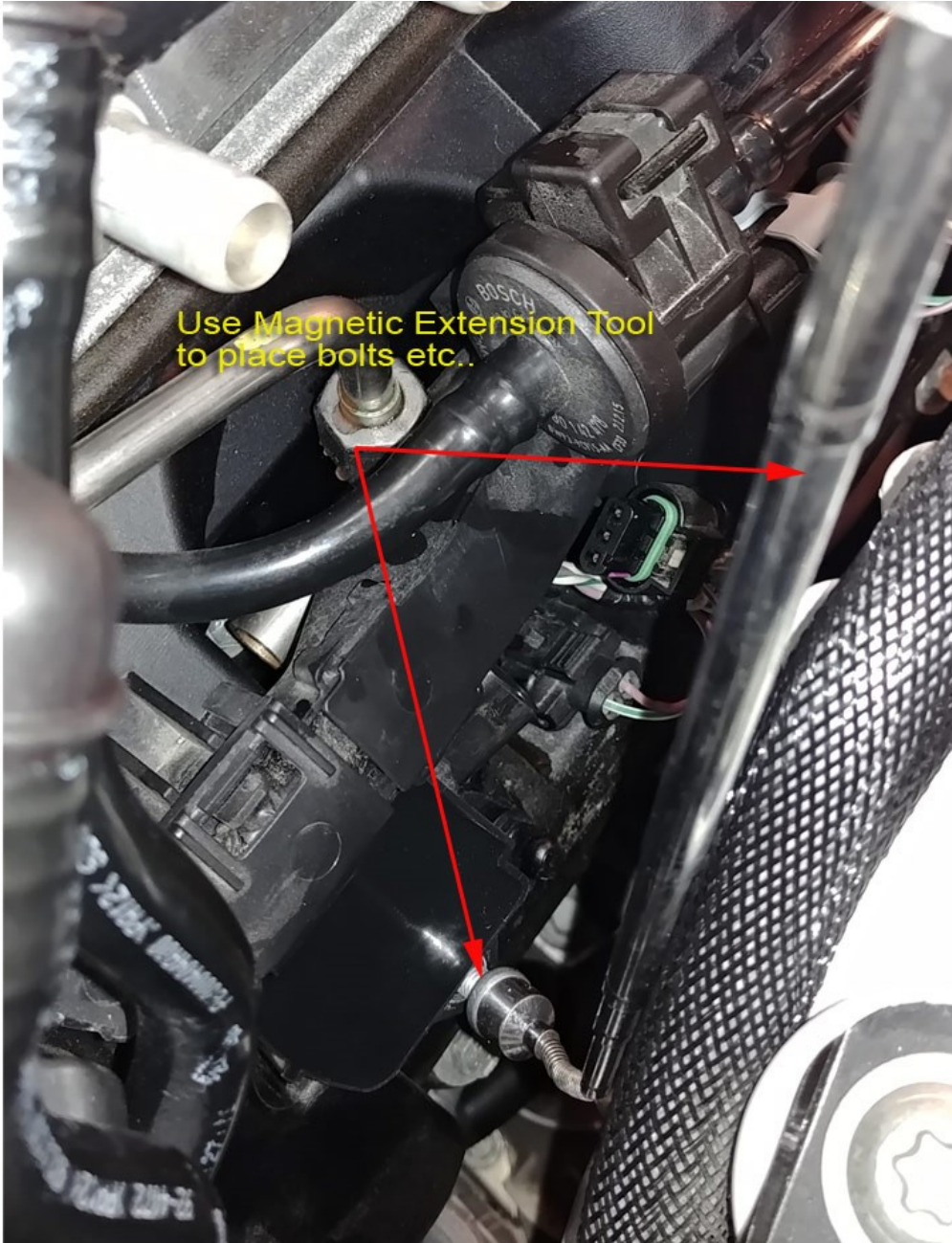


Spark plug needs 14 MM Deep Socket / Spark Plug Socket to remove

Spark plug in Recessed Tube - After Coil Removed



3.) Using Magnet extension for bolts etc.:



4.) Additional Tools



Ratcheting Bit Driver



16 Degree Wobble Extensions



U-Joint Extensions



14 Mm Spark Plug Socket



T-30 Torx Bit

This gives you some clear guidance, illustrations and tips on removal of each component. Simply put, after you gain access:

- 1.) Slide gray clip back, press, and pull off wiring for each Coil connector
- 2.) Use T-30 Torx Bit and Ratcheting Driver to remove each Coil Retaining Bolt
- 3.) Pull Coil out of the way
- 4.) Use Ratchet with appropriate extensions to remove Spark Plug
- 5.) Put new Spark Plug in and HAND start before using ratchet to completely tighten to 15 LBFT
- 6.) Replace Coil by sliding back in Spark Plug recess/sleeve
- 7.) Use Magnet Extension to position Coil Retaining Bolt (so you do not drop it!)
- 8.) Tighten Coil retaining Bolt to 71 LBIN
- 9.) Push Coil connector back on Coil and slide gray clip forward to lock

Lather – Rinse - Repeat for each Coil/Plug 😊 Replace all items in reverse Order.

Note: This was done on 2017+ F-TYPE R V8. Should be similar on other models...But check!



Take your time...when done...you should have no extra parts if done right!

This job can take a while and be a bit challenging, but is very “doable”. Pay attention and take breaks as you fatigue, and it will be done before you know it!