PPE Downpipe install

Courtesy of ColoradoSHOBro

SPRAY DOWN ALL BOLTS WITH PB BLASTER SEVERAL TIMES PRIOR TO REMOVAL OF OEM DOWNPIPES.
I squirted mine down 3 separate times within 2 weeks leading up to day of installation.
TOOLS:

Downpipe to turbo flange nuts-x6. 15mm socket. 1/2" drive w/ extensions and 1/2" universal joint. You'll do this 6 times. 3 times/per downpipe.
Downpipe to cat-back-x4. also 15mm
7/8" or 22mm line wrench with breaker bar for front primary o2 sensor(the only one you HAVE to remove while downpipe is still on the car). You can also use a torch instead of breaker bar.

STEP 1: ***BEFORE YOU JACK THE CAR UP****
UNPLUG BOTH PRIMARY o2 SENSOR WIRING HARNESS'

FRONT PIPE PRIMARY
-looking straight down behind the pass side cooling fan.

REAR PIPE PRIMARY
This one's a little tricky to find. behind the rear cam cover on passenger side. directly below the oil separator. It's a way down there and a little frustrating to get separated.

NOW RAISE THE CAR AS THE REST OF THE WORK IS DONE FROM UNDER THE CAR.

FRONT SECONDARY O2 HARNESS

REAR SECONDARY

I started with the front downpipe removal. You need to remove the front primary o2 sensor. I didn't get a pic of this step but i used a 7/8" wrench with a breaker bar. With that out of the way you've got a straight shot at the top turbo flange nut.

REMOVE 3x15mm TURBO-DOWNPIPE NUTS.
easy access to all 3 w/ extension and universal joint.

other 2 nuts being removed not pictured.
NEXT DISCONNECT THE DOWNPIPES FROM THE REAR CAT-BACK.
2x15mm. also not pictured. downpipe will fall right out after this.

MOVING ON TO THE REAR DOWNPIPE:
REMOVE PASSENGER SIDE WHEEL.
straight shot from there

Then remove other 2 downpipe-catback nuts.

THIS DOWNPIPE REQUIRES SOME CAREFUL TWISTING FOR REMOVAL. BE CAREFUL NOT TO BANG AROUND THE o2 SENSORS.

ONCE YOU'VE DROPPED THE PIPES IT'S A GOOD TIME TO CHECK OUT THE STATE OF YOUR MICRO-TURBOS.

NOW THAT BOTH PIPES ARE OUT-REMOVE THE OTHER 3 o2 SENSORS AND MARK THEIR POSITION IN THE DOWNPIPE.
Don't think it was completely necessary but i torched the flange of the sensors and they came out like butter.

INSTALLATION IS PRETTY MUCH THE REVERSE OF THIS.
The rear downpipe is a bit of a chore to twist into place. I had to remove this bracket to make it happen and it was still real tight. they're 10mm bolts.

LOOSELY CONNECT THE BACKSIDE OF THE DOWNPIPE TO THE CAT-BACK TO HELP IT KEEP IN PLACE. SLIDE THE NEW DOWNPIPE OVER THE TURBO STUDS AND START THE NUTS. TORQUE DOWN THE TURBO SIDE 1ST-THEN CAT-BACK SIDE.

ONCE YOUR NEW DOWNPIPES ARE IN PLACE RE-INSTALL ALL 4 OXYGEN SENSORS AND PLUG BACK INTO THE HARNESS'. (use anti-seize)

SIT BACK AND ADMIRE THE BEAUTIES.BEFORE YOUR 1ST TEST DRIVE!!