

Crawford Performance Turbo Kit (CP30/35R) Install Instructions (04-07 STI) Version 1.16

Parts List

Item Num	Quantity	Description	Sent	Received
CP-I0101	1	Crawford Performance Rotated Turbo Install Kit		
L0578	1	CP30/35 turbo oil feed A/N line		
F0389	1	Fitting – STI oil line adaptor		
F0380	2	Fitting – ¼ pipe to ½ barb		
H0480	3	Hose – Heater per ft, hose for turbo water lines		
C0250	4	Clamp – hose for water lines on CP turbo kit		
S0775	1	Shield – thermal 1 ¼” thermal shielding for water line		
F0372	1	Fitting – BB GT turbo oil feed		
P0629	1	Pipe – turbo drain pipe, metal turbo drain pipe		
C1035	3	Jet hot coating per foot		
B0197	4	Bolt – M8x1.25x20mm Hex c./s SS for turbo		
B0205	6	Bolt – M10x1.25x45mm adjustable idler pulley		
G0446	1	Gasket – WRX Up Pipe, bottom gasket for up pipe		
N0586	4	Nut - M10x1.25 Flange nut for turbo/ up pipe		
S0776	1	Shield – CP S/S Turbo Heat Shield		
B1034	2	Bolt – M8x1.25x18mm hex, turbo drain line		
H0510	3.75	Hose – Vacuum 6mm ID (45” for turbo kit)		
H0511	1.3	Hose – Vacuum 8mm ID (16” for turbo kit)		
F0371	1	Fitting – ¼” Tee Fitting for turbo boost line		
F0373	1	Fitting for turbo boost line, 3/16 straight		
CP-I0102	1	Crawford Performance BIG FMIC Install Kit		
P0623	1	Pipe – CP30/35 Intake #1 (under intake manifold)		
P0624	1	Pipe – CP30/35 Intake #2 (down right side of radiator)		
P0625	1	Pipe – CP30/35 Intake #3 (right side of intercooler)		
P0626	1	Pipe – CP30/35 Intake #4 (btm left side of intercooler)		
P0627	1	Pipe – CP30/35 intake #5 (left head to throttle body)		
H0490	3	Hose – 2” Straight hose, Super Black		
H0489	1	Hose – 2-2.5” Transition hose, Super Black		
H0493	1	Hose – 2-2.75” Transition hose, Super Black		
H-487	2	Hose – 2-3” Transition hose, Super Black		
C0244	10	Clamp – T-Bolt, 2” ID T Bolt Clamp		
C0246	2	Clamp – T-Bolt, 2.5” ID, Turbo Hose		
C0248	1	Clamp – T-Bolt, 2.75” ID , Turbo Hose		
CP-I0103	1	Crawford Performance Cold Air Intake 04/07 STI		
H0496	1	Hose – 4” to 3” Transition Hose		
C0249	1	Clamp – 3” ID T-Bolt Clamp		
C0246	1	Clamp – 4” ID T-Bolt Clamp		
F0362	1	Filter – K&N, CP30/35 Chrome Filter		
B0206	2	Bolt – M4-.07x12mm SFHCS CP CAI MAF Screw		
P0628	1	Pipe – CP 04-07 Rotated CAI Crawford 04-07		
B0225	1	Bung – MAF CAI Weld in Alum MAF bung for CAI		
CP-T0115	1	Crawford Performance .63 A/R Turbo Assembly		
T0890	1	Turbo – Garrett GT30R for CP30R Kit		
CP-T0116	1	Crawford Performance .82 A/R Turbo Assembly		
T0892	1	Turbo – Garrett GT35R for CP35R Kit		

C1033	1	Jet Hot coat turbine housing		
P0630	1	Pipe – Coating Wastegate Discharge Pipe w/ Flange		
U0902	1	Up Pipe – CP30/35 Jet Hot Coated Up Pipe		
D0321	1	Down Pipe – CP30/35		
W0932	1	Wastegate – Tial 44mm		
B0219	1	Bracket – Jet Hot coated CP30/35 Support Bracket		

Turbo Kit Parts



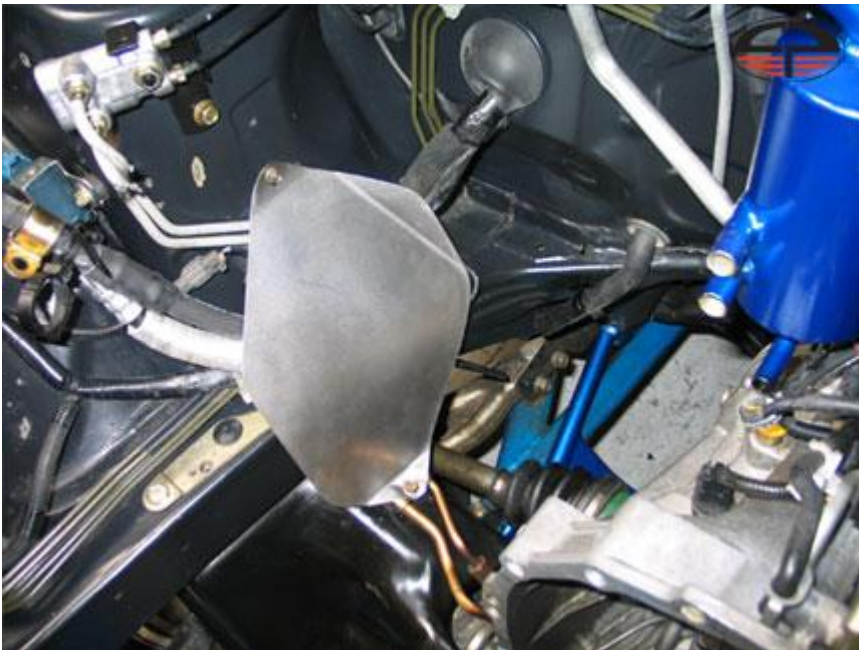
CP30R or CP35R Turbo Kit:
Turbo kit and accompanying parts for installation

Heat Shield Installation:



Heat shield:

CP30R and CP35R Heat Shield for Wires and Power Steering Lines



Heat Shield:

Two screws are used to hold the heat shield in place. One Screw is located on the strut pillar and the second screw is in the power steering lines located on the front cross member. We recommend allowing the maximum amount of space between the power steering lines and heat shield for proper cooling.



Proportioning Valve:

Please note the proportioning valve has been carefully bent 45 degrees towards the strut pillar. This will allow the turbo and intake pipe to fit between the manifold and chassis. Also note the heat shield has been pulled towards the center of the engine bay to allow for proper cooling of the power steering lines.

Turbo Installation:



Water line return:

Water line runs from the top of the water reservoir to the back side of the turbo. This is the water return line. Make sure the line off the turbo does not touch the turbine (hot side) of the turbo, otherwise the line will burst over time from extreme heat.



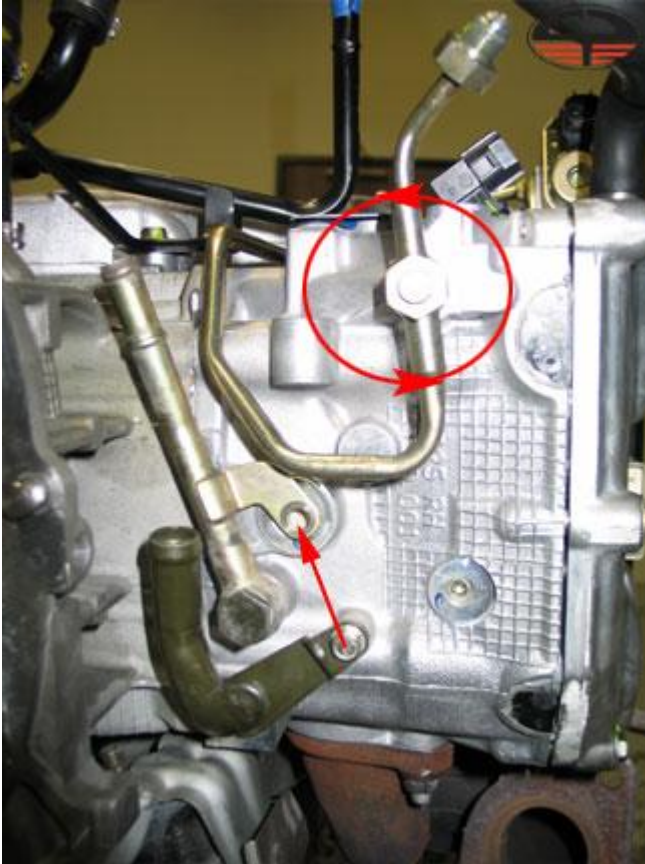
Oil feed line:

The oil feed line runs from the original AVCS oil feed line to the top of the turbo.



Turbo mounting bracket:

Turbo mounting bracket, with has two holes for the turbine side inlet, and 2 holes that mount to side of the transmission. The hole in the middle is used for the oil return line on the bottom of the turbo.



Oil feed line (metal AVCS line) :

Oil feed line (AVCS line) should be rotated counter clockwise to allow the oil feed line to fit next to the turbo compressor outlet. The oil feed adaptor fitting fits on top of the metal oil feed line before the stainless braided feed line. (Be careful when adjusting the metal oil feed line).

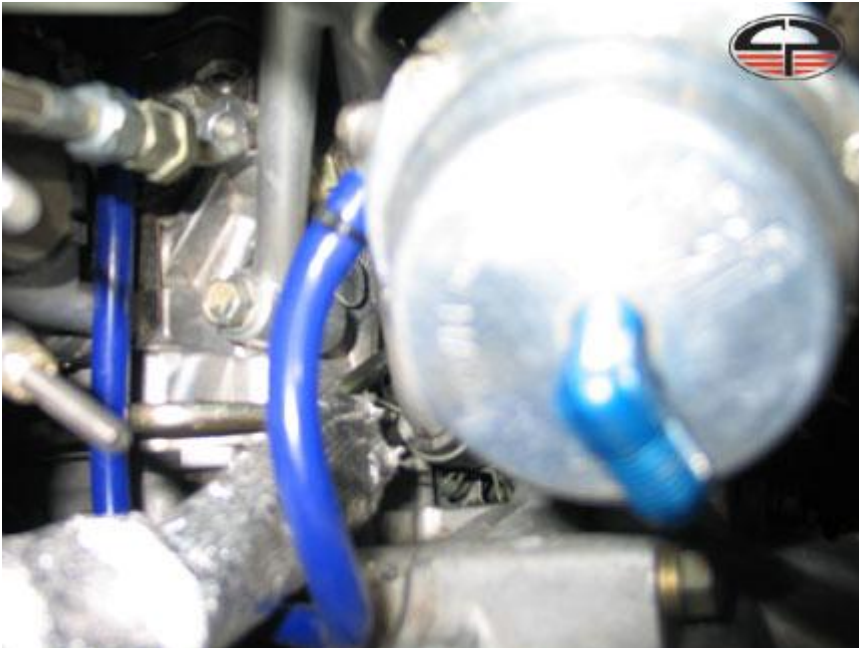
Water feed line (OEM line):

The water line needs to be rotated up from its stock location in order to run the water line from water feed to the inlet on the side of the turbo.



Oil return line:

The metal oil return line drops through the turbo mounting bracket and down to the stock rubber hose location. Do not use a stainless steel line as the internal rubber will burst under extreme temperatures, causing fires and engine failure.



Oil feed line:

Note the oil feed line attached to the AVCS line to the top left of the picture. The oil feed line (AVCS metal line) is almost pointing directly up.



Oil feed line:

Notice the counter clockwise rotation of the oil feed line, which will allow the turbo to fit and oil feed line to connect to the top of the turbo.

Oil return line:

The oil return line drops down through the metal turbo bracket directly to the stock location. You will need to shorten the rubber oil return line to connect the drain to the turbo drain line.

Water feed line:

The water feed line has been rotated counter clockwise to fit the water feed line to the turbo.

Turbo mounting bracket:

Note the location to where it bolts to the transmission



Turbo mounting bracket:

The turbo mounting bracket bolts to the bottom of the up pipe which connects to the turbo. Notice the slip joint fitting off the waste gate which connects the waste gate exhaust to the down pipe.

Heat shield:

The heat shield is directly underneath the up pipe and protects the power steering lines and wires beneath it.

Notes when installing the turbo, up pipe, down pipe and wastegate:

Keep all bolts loose until everything is connected together. This will allow for easier installation of all parts. Once everything is connected make sure to tighten all bolts and clamps

Intake and Intercooler pipe locations:



Intercooler pipe #1 (Hot side)

This pipe comes directly off the turbo and routes underneath the intake manifold. This pipe has 2 bends and only one seam on the pipe.



Intercooler pipe #1 (Hot side)

The pipe comes off the turbo and routes directly underneath the manifold. Notice the location of the seam underneath the power steering line. The pipe uses a 2.5 inch to 2 inch silicon hose from the turbo to the pipe. Use accompanying T-bolt clamps.



Intercooler pipe #2 (Hot side)

This pipe connects to pipe #1 and routes down the side of the engine on the passenger side. This pipe has 2 bends and two seams.



Intercooler pipe #2 (Hot side)

The pipe uses 2 inch to 2 inch silicon hose from intercooler pipe #1 to intercooler pipe #2. Use the accompanying T-bolt clamps.



Intercooler pipe #2 (Hot side)

The slightly longer curved section of the pipe attaches to the bottom below the engine.



Intercooler pipe #3 (Hot side)

A short pipe connects to intercooler pipe #2 and the 2.5 inch side of the pipe connects to the APS DR725 front mount intercooler.



Intercooler pipe #3 (Hot side)

A short pipe connects to intercooler pipe #2, using 2 inch silicon hose connector. The side of the pipe that has a 2.5 inch side connects to the APS DR725 front mount intercooler. Use a 2.5 inch to 2.5 inch connector from the pipe to the intercooler.



Intercooler pipe #4 (Cold side)

This pipe connects from the cold side of the APS DR725 front mount intercooler and runs underneath the engine to the front cross member.



Intercooler pipe #4 (Cold side)

This pipe connects from the cold side of the APS DR725 front mount intercooler and runs underneath the engine to the front cross member. The large side connects to the APS DR725 via a 2.5 inch to 2.5 inch silicon hose. Use accompanying T-bolt clamps.



Intercooler pipe #5 (Cold side)

This pipe connects from intercooler pipe #4 to the throttle body. The larger side connects to the throttle body and the other side connects underneath the engine just above the cross member.



Intercooler pipe #5 (Cold side)

This pipe connects from intercooler pipe #4 to the throttle body. The larger side connects to the throttle body using 2.5 inch to 3 inch silicon hose. Use accompanying T-bolts.

Complete Turbo Kit Installation

