

Ford Raptor Ranger Intake Kit

Contents

Description	
Intake Pipe with IAT	1
Intake Pipe with Bracket	1
Heatshield	1
Heatshield Lid	1
Turbo Hose	1
Heatshield Grommet Bracket	1
Air Filter	2
Aluminium Mounting Stud	2
M6 x 16mm Caphead	12
50-70mm Jubilee Clamp	1
80-100mm Jubilee Clamp	3
M4 x 12mm Caphead	4
M4 Washer	4
M6 Nyloc	14
Hard Pipe Bracket	1
M6 Anti Vibration Mount	2
Turbo Inlet Pipe Bracket	1
Front Heatshield Bracket	1

Recommended Tools

Tools	Size
Sockets	13mm/10mm/6mm/7mm
Spanner	13mm/10mm
Allen Key / Allen Socket	3mm/5mm
Torx driver/ socket	T30
Hose Clamp Pliers	
Screwdriver	Flat Bladed



Before starting, please ensure that the battery is disconnected and the engine is cool. Engine temperatures can remain high for a substantial amount of time after use.



PK452 – Ford Ranger Raptor

- 1 Undo the two jubilee clamps securing the two hoses to the airbox.



- 2 Unplug the IAT sensor



- 3 Remove the hoses from both airbox outlets



- 4 Unlatch the two airbox lid latches



- 5 Remove the airbox lid



- 6 Unclip the wiring harness from the lower section of the airbox



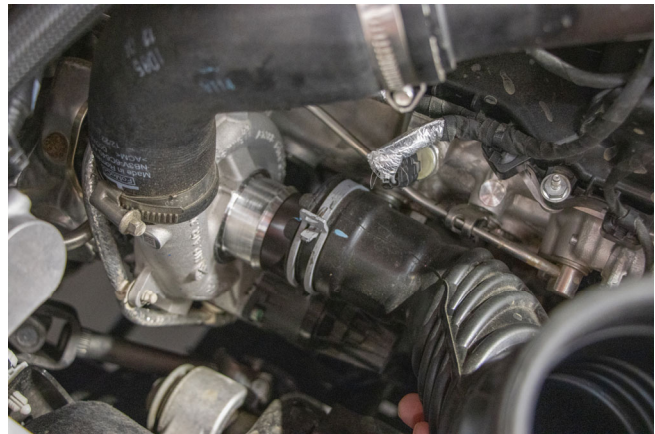
- 7 Unbolt the front scoop



- 8 Pull up on the lower half of the airbox to remove it from the engine bay



- 9 Using a hose clamp pliers, release the clip securing the lower turbo hose



- 10 Undo the two screws securing the washer bottle neck and remove



- 11 Undo the screws fixing securing the bracket photo'd, unclip the wiring harness and remove



- 12 Use a screwdriver to unclip the scoop from the airbox



- 13 Install the brackets to the heatshield as photographed, refer to the drawing on the final page of the instructions for clarification.



- 14 Install the turbo hose on to the lower turbo using the supplied 50-70mm Jubilee clamp. Do not tighten yet as it may need to be reorientated to install the heatshield.



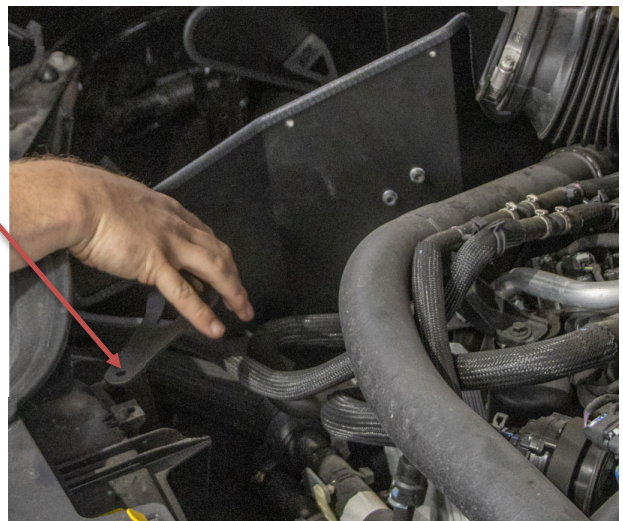
- 15 Fix the aluminium mounting studs to the appropriate brackets and place the heatshield into the engine bay. The studs push in to the original mounting points.



- 16 Secure the right side of the heatshield to the chassis using the previously removed screw in step 11



- 17 Secure the right side of the heatshield to the chassis using an M6 washer and screw



- 18 Install the lower 90° intake pipe in to the silicone, fix the pipe to the bracket as shown using supplied M6 anti-vibration mounts, washers and nuts.



- 19 Remove the IAT sensor from the airbox. To remove, turn anticlockwise by 90° and pull out.



- 20 Install the IAT sensor in to the intake pipe. Push the sensor into the boss and turn clockwise 90° to secure. Reconnect the IAT plug.



- 21 Install the upper 45° intake pipe in to the OE hose, fix the pipe to the bracket as shown using supplied M6 anti-vibration mounts, washers and nuts.



- 22 Connect the IAT sensor plug



- 23 Install both air filter to the end of the intake pipes using the supplied jubilee clamps

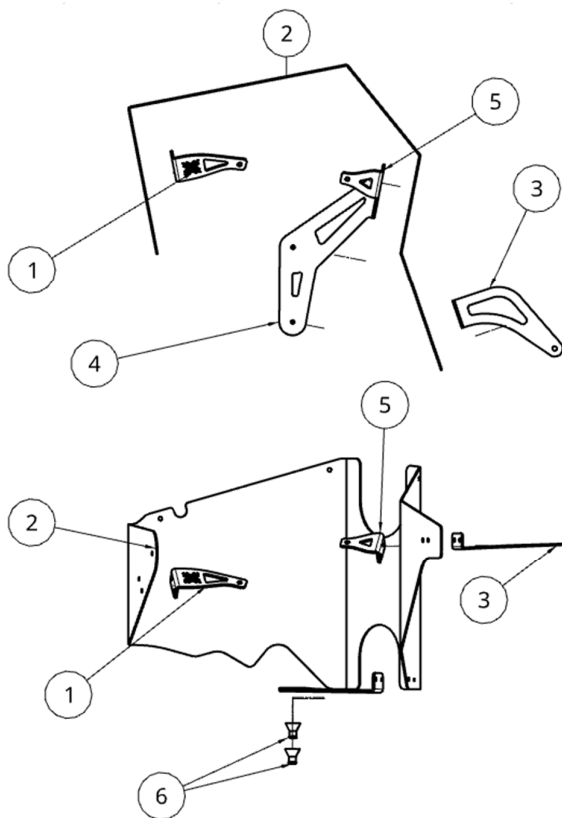


- 24 Install the heatshield lid using m4 screws and washers & re-fit the washer bottle neck.

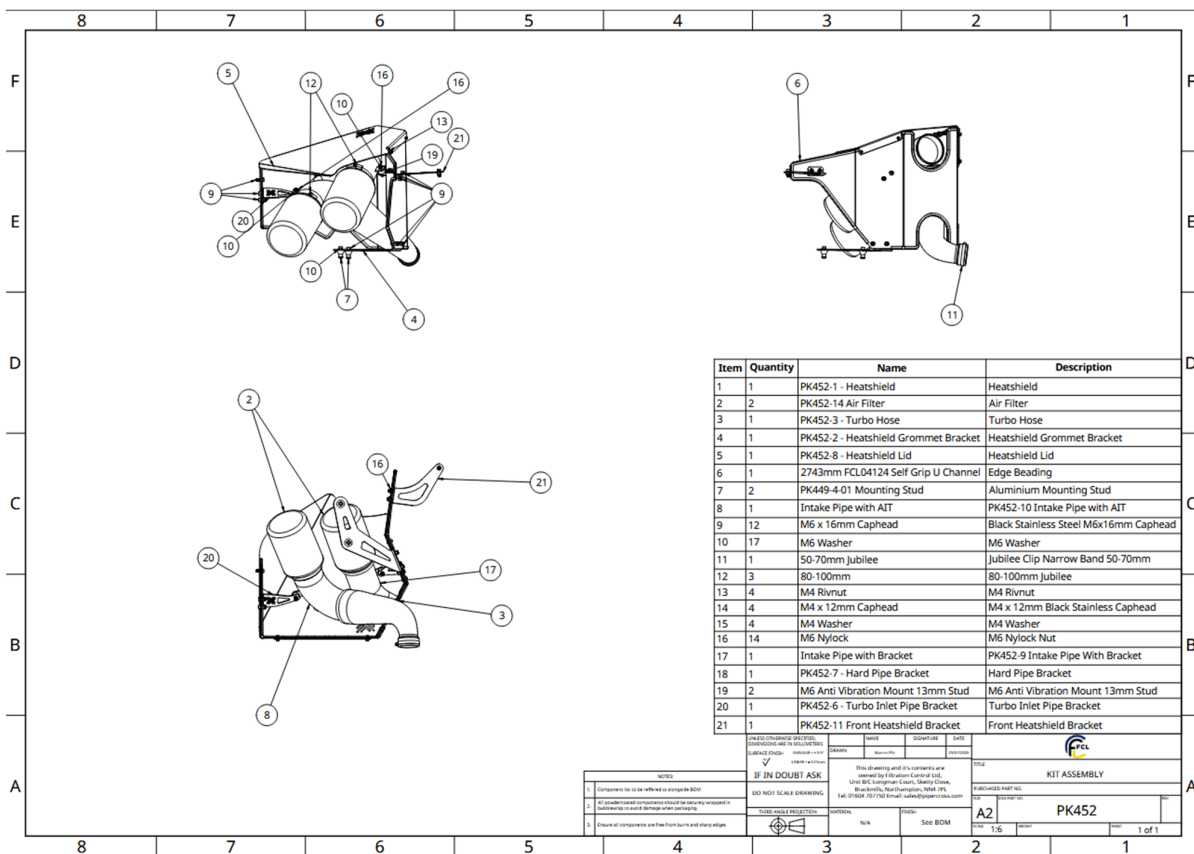


- 22 Install OE scoop using screw removed in step 7





Item	Quantity	Description
1	1	Turbo Inlet Pipe Bracket
2	1	Heatshield
3	1	Front Heatshield Bracket
4	1	Heatshield Grommet Bracket
5	1	Hard Pipe Bracket
6	2	Aluminium Mounting Stud



Item	Quantity	Name	Description
1	1	PK452-1 - Heatshield	Heatshield
2	2	PK452-14 Air Filter	Air Filter
3	1	PK452-3 - Turbo Hose	Turbo Hose
4	1	PK452-2 - Heatshield Grommet Bracket	Heatshield Grommet Bracket
5	1	PK452-8 - Heatshield Lid	Heatshield Lid
6	1	2743mm FCL04124 Self Grip U Channel	Edge Beading
7	2	PK449-4-01 Mounting Stud	Aluminium Mounting Stud
8	1	Intake Pipe with AIT	PK452-10 Intake Pipe with AIT
9	12	M6 x 16mm Caphead	Black Stainless Steel M6x16mm Caphead
10	17	M6 Washer	M6 Washer
11	1	50-70mm Jubilee	Jubilee Clip Narrow Band 50-70mm
12	3	80-100mm	80-100mm Jubilee
13	4	M4 Rivnut	M4 Rivnut
14	4	M4 x 12mm Caphead	M4 x 12mm Black Stainless Caphead
15	4	M4 Washer	M4 Washer
16	14	M6 Nylock	M6 Nylock Nut
17	1	Intake Pipe with Bracket	PK452-9 Intake Pipe With Bracket
18	1	PK452-7 - Hard Pipe Bracket	Hard Pipe Bracket
19	2	M6 Anti Vibration Mount 13mm Stud	M6 Anti Vibration Mount 13mm Stud
20	1	PK452-6 - Turbo Inlet Pipe Bracket	Turbo Inlet Pipe Bracket
21	1	PK452-11 Front Heatshield Bracket	Front Heatshield Bracket

NOTES
1. Components list is to be referred to complete BOM
2. All powder coated components should be securely wrapped in bubblewrap to avoid damage when shipping.
3. Ensure all components are free from burrs and sharp edges

IF IN DOUBT ASK

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