

RAMAIR

Fitting instructions for

JSK-407-BK

PRK-407-BK

BMW 2/3/4 series (GXX) with 2.0L B48 engine



BEFORE STARTING ANY WORK ON THE VEHICLE PLEASE ENSURE THAT THERE ARE NO EXISTING ENGINE MANAGEMENT ISSUES.

IT IS RECOMMENDED THAT YOU READ AND UNDERSTAND THESE INSTRUCTIONS IN THEIR ENTIRETY BEFORE BEGINNING THE INSTALLATION.

IF YOU ARE AT ALL UNSURE ABOUT ANY ASPECT OF THE INSTALLATION PROCESS, PLEASE CONTACT RAMAIR FILTERS BEFORE PROCEEDING.

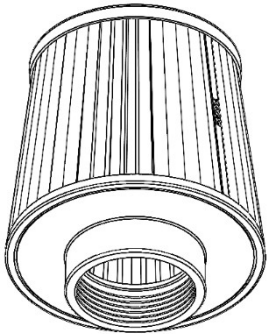
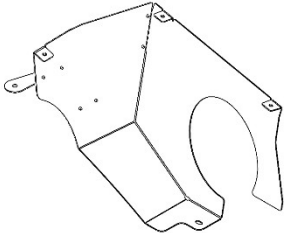
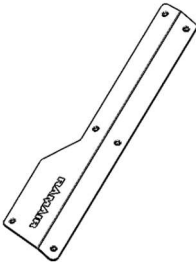
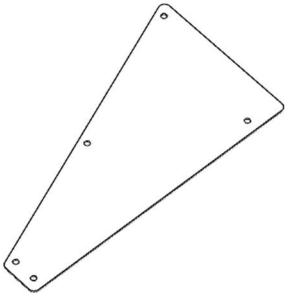
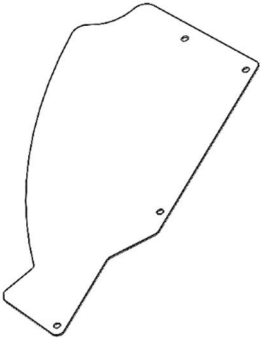
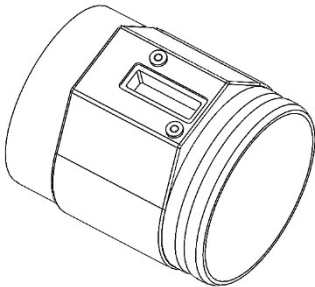
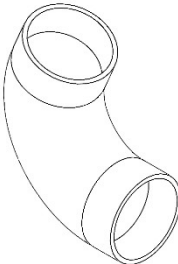
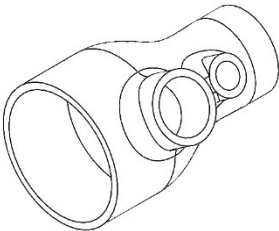
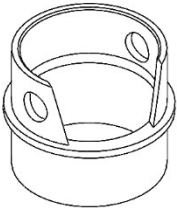
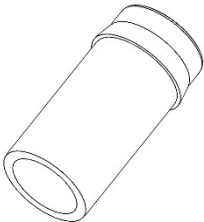
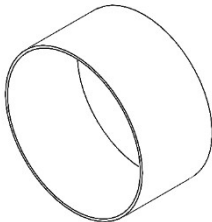
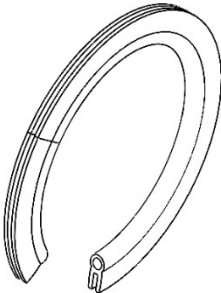
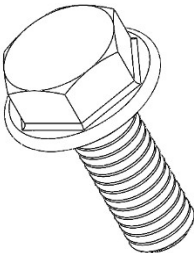
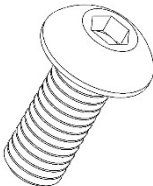
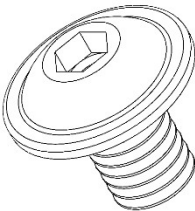
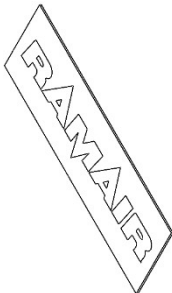
IRREVERSIBLE MODIFICATION (CUTTING, GRINDING, BENDING, GLUING, ETC) OF ANY COMPONENT OF THE KIT IS NOT REQUIRED FOR INSTALLATION TO A STANDARD VEHICLE, DOING SO MAY AFFECT YOUR WARRANTY.

KIT CONTENTS

ID	QTY	PART NUMBER	DESCRIPTION
A	1	PR-CC-150-90	Pleated Air Filter
B	1	HS-347-B001	Heatshield Assembly
C	1	HS-276-B008	RH Lid Plate Assembly
D	1	HS-276-C032	RH Carbon Panel 1
E	1	HS-276-C033	RH Carbon Panel 2
F	1	CNC-253-C005	MAF Pipe
G	1	RAMSIL-407-C006	Intake Hose
H	1	RAMSIL-407-C007	Intake Hose
I	1	CNC-407-C001	Heater Housing
J	1	RA027-C0003	Barb
K	1	530090	90mm Coupler
L	1	530045-1000MM	1m Edge Trim

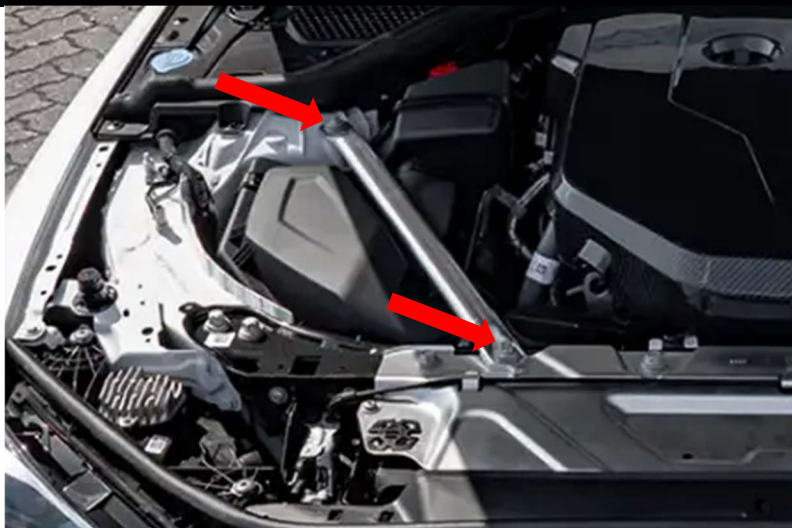
FITTING KIT CONTENTS

ID	QTY	PART NUMBER	DESCRIPTION
M	3	530114	M6 Metal Foot
N	3	530116	M6x16mm Flange Head Hex Bolt
O	2	530138	M4x10mm Button Head Bolt
P	9	540002	M4x6mm Flange Button Head Bolt
Q	1	WD050W2	Hose Clamp
R	1	WD060W2	Hose Clamp
S	3	WD100W2	Hose Clamp
T	2	STICKER	Sticker

COMPONENT IMAGES			
			
A	B	C	D
			
E	F	G	H
			
I	J	K	L
			
M	N	O	P
			
Q	R	S	T

FITTING INSTRUCTIONS**01**

Start the installation by removing the strut brace if present.

**02**

Unplug the MAF sensor connector and undo the hose clamp on the airbox and disconnect the intake hose.

**03**

Remove the OEM airbox by gently but firmly pulling upwards. It is secured by three plastic pegs located in rubber feet.

Disconnect PCV line from intake hose, squeeze tabs on either side to release.



04

Disconnect the two pipes from the intake hose by squeezing the tabs.

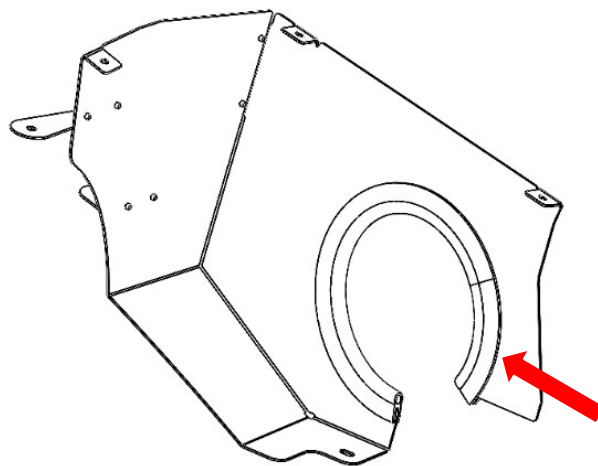
If you struggle to remove the larger of the two hoses; remove the engine cover and disconnect it at the other end and separate it from the intake hose after.

Remove the intake hose by pulling on the wire clamp to release it from the turbocharger inlet.



05

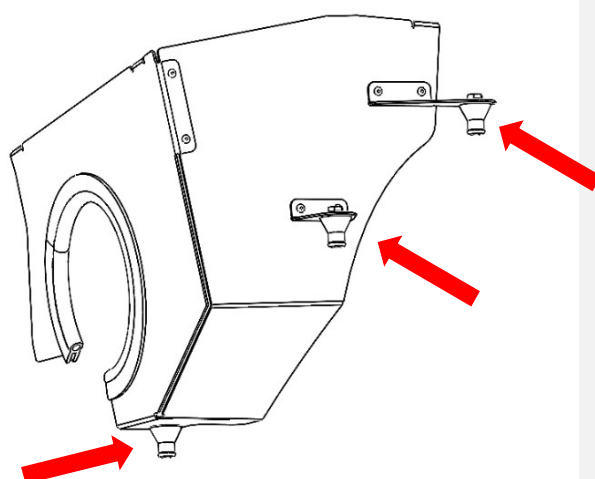
Line the hole in the heatshield with the supplied rubber trim, cut it to the required length with a sharp knife.



06

Install the supplied metal feet onto the heatshield using the supplied M6 bolts.

Install the heatshield into the rubber mounts that the OEM airbox was removed from.



07

Remove the MAF sensor from the OEM airbox.

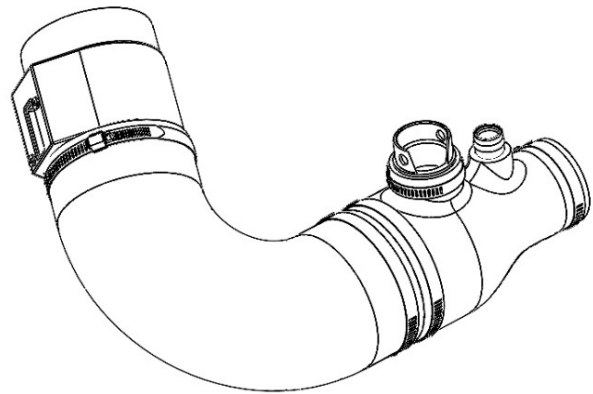
Install the sensor into the supplied sensor housing. Use the supplied M4 bolts, do not try to use the screws from the OEM airbox.



08

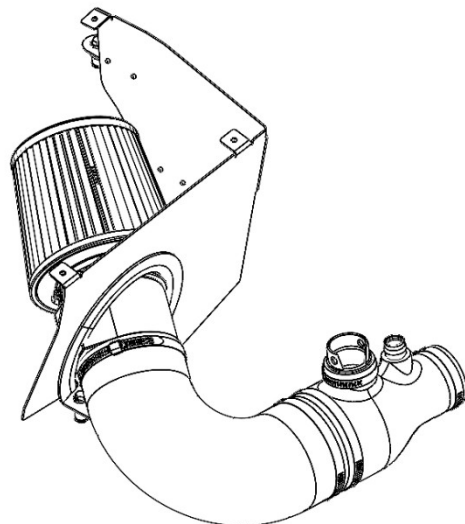
Assemble the sensor housing, silicone hoses, and metal adapters as shown.

Install the intake hose assembly onto the turbocharger inlet using the supplied worm drive clamp and connect the two hoses from step 04.



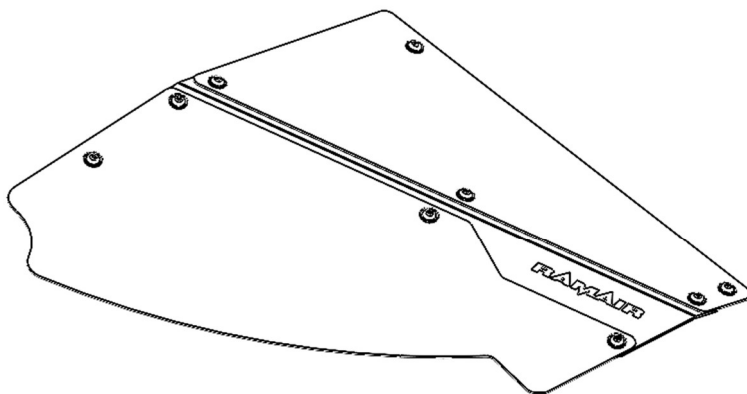
09

Install the filter onto the end of the sensor housing and secure the hose clamp. If required adjust the angle of the intake hose by loosening the hose clamp from the previous step, rotating the hose and tightening it again.



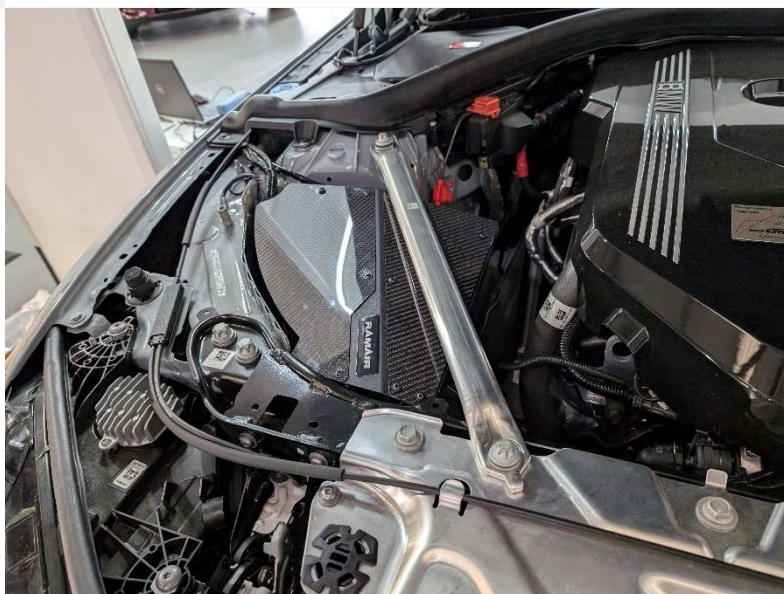
10

Assemble and install the lid using the supplied M4 bolts. It helps to loosely assembly all the components before fully tightening any of the bolts.



11

If removed in step one, reinstall the brace and torque to BMW's specification.



12

At normal air filter service intervals, you should remove the air filter for cleaning...

1. Remove the filter from the vehicle.
2. Shake loose any larger debris from the filter.
3. Clean the filter material with cleaning solution or warm soapy water.
4. Allow the filter to air dry naturally, do not use a heater or compressed air.

Reinstall the filter.



