

Installation Sheet

Application Vehicle

Vehicle Name	Volkswagen NewBeetle		Vehicle Code	
Year	2000~	Engine Type	Apex Product Code	
			116-K101	

Parts List

No.	Part Name	Size	Qty	No.	Part Name	Size	Qty
①	Apex Front Muffler	Vehicle Specific	1	⑤	Nut	M10 x P1.25	2
②	Apex Main Muffler	Vehicle Specific	1	⑥	Washer	M10	4
③	Gasket	P90 x ϕ 61.5	1	⑦	Apex Instruction Manual		1
④	Bolt	M10 x P1.25 x L40	2	⑧			

Apex Exhaust System Installation Procedure

1. Install the muffler according to the diagram below and hand tighten the nuts and bolts in place.
*The diagram only shows partial usage of the nuts and bolts. Please use all of them.
2. Take note of piping clearance, gasket positioning, tip position, chassis clearance and tighten the nuts and bolts into position. Start from the catalytic converter side and work your way back.

Torque Specification

M8	21~26N·m	2.1~2.7 kgf·m	15.5~19.0lb·ft
M10	43~55N·m	4.4~5.6 kgf·m	31.8~40.5lb·ft
M12	71~90N·m	7.2~9.2 kgf·m	52.3~66.3lb·ft

3. Be sure to confirm tail pipe positioning so that it does not touch the rear bumper. If the positioning is off, loosen the nuts and bolts and adjust accordingly. Failure to provide adequate clearance may cause unnecessary sound and may melt the bumper.

CAUTION

Be sure to check clearances between brake components, fuel line, and drive train components.

Checkpoints after Installation

1. After installation, move the exhaust system side to side by hand to confirm clearances.
2. Rev the engine to 2500rpm to check for any exhaust leaks.
3. Test drive the vehicle and check for exhaust leaks or unusual sounds.
4. If anything usual occurs in steps 1~3, reinstall the muffler system.
5. Retighten all of the nuts and bolts after 100~200mi.

