



# Intake kit Installation Instructions: 2004-2005 BMW 545i / 645Ci V8-4.4L Stage 1

<b>Kit P/N:</b> 51/54-11081	<b>Tools Required:</b> 5/16" nut driver 1/4" nut driver Flat head screwdriver 10mm socket or extension T20 torx bit T30 torx bit 5mm allen key	<b>Parts list:</b> 1 Air filter ( <b>Pro-5R™</b> 24-91021 <b>Pro Dry S™</b> 21-90044) 1 Housing 1 Cover 1 Coupler, reducer (4-1/4" X 3-1/2")	1 Clamp, #072 1 Clamp, #060 1 Adaptor, filter 6 Button head, screws M6 3 Washer, wavy M6 1 Torx bit, T20
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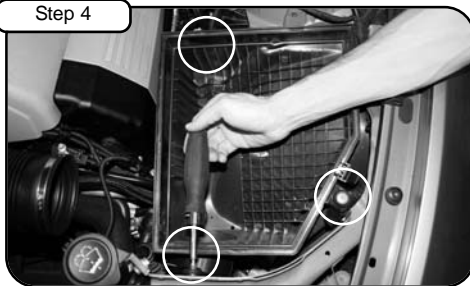
Step 1  
Complete Stock Intake.



Step 2  
Disconnect MAF sensor harness. Loosen clamps with 1/4" nut driver.



Step 3  
Unclip upper half of air box and lift carefully. Pull back MAF sensor from OE tube.



Step 4  
Loosen the 3 bolts holding in bottom half of air box. Take air box out of vehicle.



Step 5  
Remove MAF sensor using T30 torx bit.



Step 6  
Install filter adaptor using 3 button head screws & wavy washers. Tighten using 5mm allen key.



Step 7  
Install coupler reducer to filter adaptor with clamps provided.



Step 8  
With 10mm socket loosen the bolt holding in windshield washer reservoir. *Save bolt for later install.*



Step 9  
Place MAF sensor into intake tube. *(Make sure MAF sensor arrow is in direction towards throttle body.)* Now install housing into vehicle. Place other end of MAF sensor into coupler. Do not tighten clamps.



Step 10  
Tighten housing using bolts from step 4 and 8. Tighten all clamps using 5/16" nut driver.



Step 11  
Install air filter and tighten using 5/16" nut driver. Re-connect MAF sensor harness.



Step 12  
Install cover on housing using button head screws provided and tighten using 5mm allen key.



Step 12  
Your installation is now complete. Please check all bolts and clamps periodically. Re-tighten if necessary. Thank you for choosing aFe!

Note: Filter Cleaning and Re-oiling: When cleaning your aFe filter, be sure to use only aFe's "Restore Kit" (aFe P/N: 90-50001 blue oil aerosol, or aFe P/N: 90-50501 blue squeeze bottle oil).  
Filter Replacement: **Pro-5R™** PN: 24-91021 (black w/blue media). **Pro Dry S™** P/N: 21-90044 (black w/white media) **Pro Dry S™** cleaning: see cleaning instruction sheet 06-00074.