

advanced FLOW engineering

Instruction Manual P/N: 79-10002

Make: **BMW** Model: **M3 (E90/92/93)** Year: **2009-2011** Engine: **V8-4.0L**



- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- Ensure you have all necessary tools before proceeding.
- Do not attempt to work on your vehicle when the engine is hot.
- Disconnect the negative battery terminal before proceeding.
- Retain factory parts for future use.

Label	Qty.	Description	Part Number
A	1	Pulley	05-60091
B	1	Belt (6PK1425)	05-60102
C	1	Belt (6DPK1070)	05-60101
D	6	ISA Screw With Washer	05-60112

Installation will require the following tools:

T20/T25/T45 Torx bit, Flat head screw driver, 10mm/14mm/16mm Sockets and wrenches

Note: Legal in California for use on race vehicles only. The use of this device on vehicles used on public streets or highways is strictly prohibited in California and others states that have adopted California emission regulations.

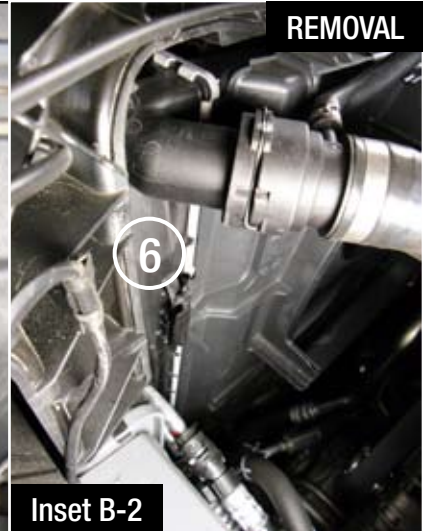


**Figure A****Refer to Figure A for steps 1-3**

Step 1: Remove factory intake ducts ① using a T20 Torx and pliers.

Step 2: Loosen intake tube clamps ② and remove intake tube ③ between air box and manifold.

Step 3: Unbolt airbox with 10mm socket and remove airbox ④.



REMOVAL

Refer to Figure B for steps 4-6

Step 4: Remove bolt (5) holding fan shroud with T25 Torx on Passenger side (See inset 1).

Step 5: Release fan shroud clip (6) on driver side (See inset 2).

Step 6: Remove the fan shroud by sliding it up out of the engine bay. (Unclip hoses attached to the bottom of the fan shroud.)

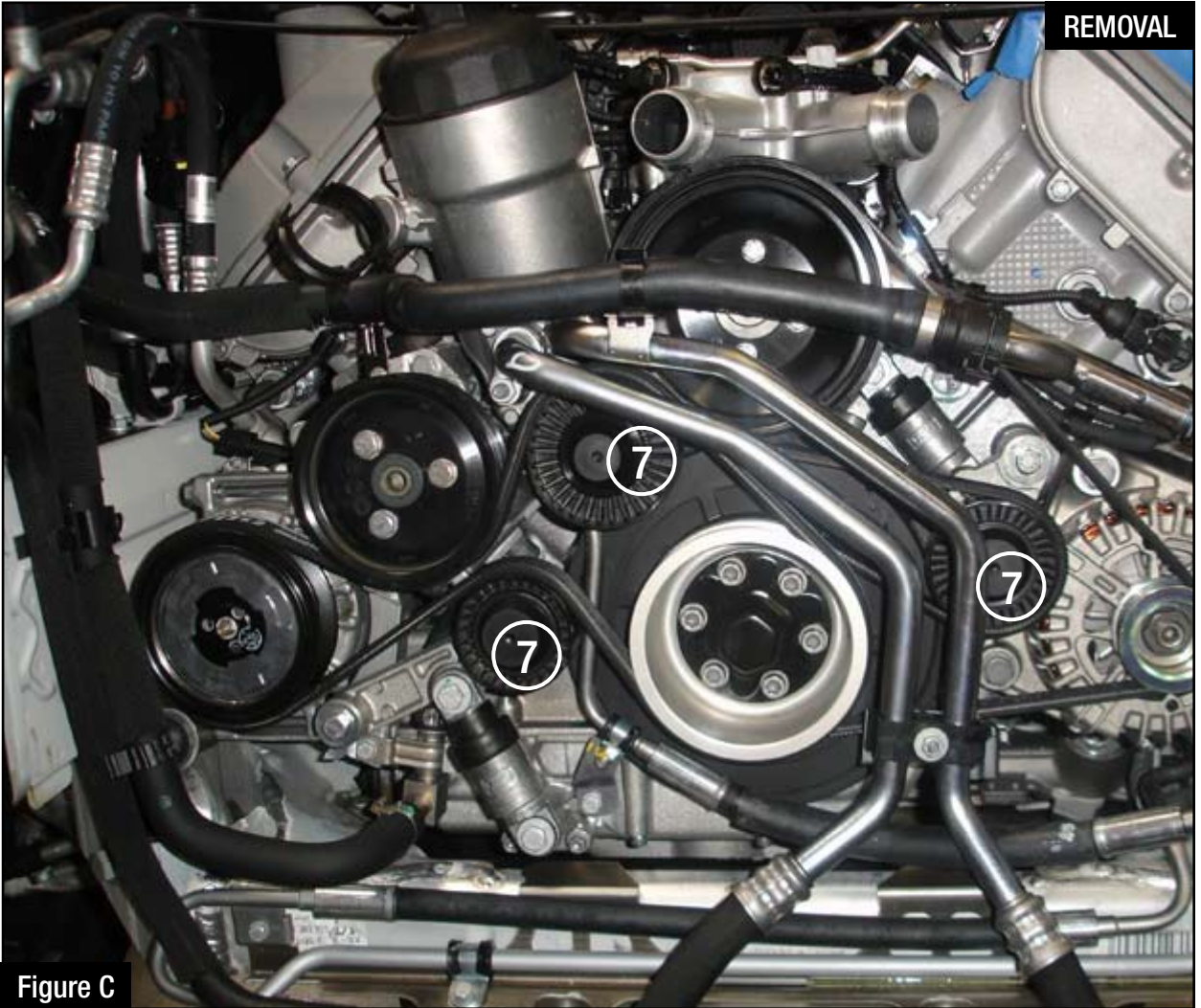


Figure C

Refer to Figure C for Location of Pulleys

Step 7: Remove 3 pulley caps (7) using flat head screw driver.



Refer to Figure D-1 & 2 for step 8-9

Step 8: Using 14mm wrench, turn tensioner ⑧ clockwise to retract it and to remove tension on AC/power steering belt

Step 9: Once retracted, slide AC/power steering belt off.

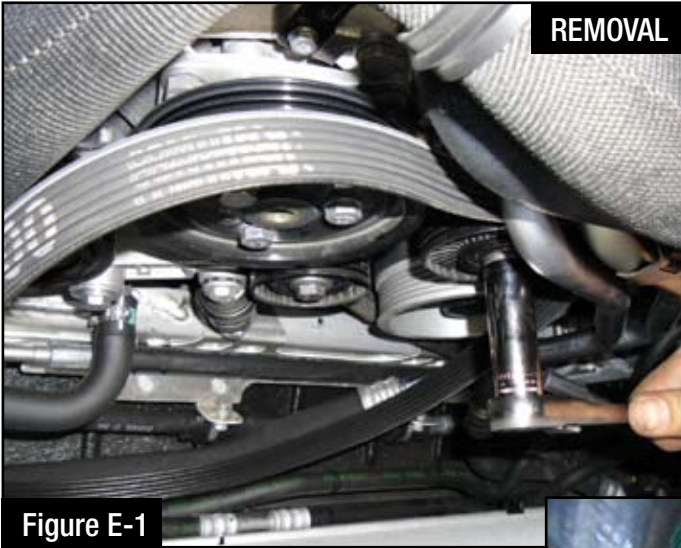


Figure E-1

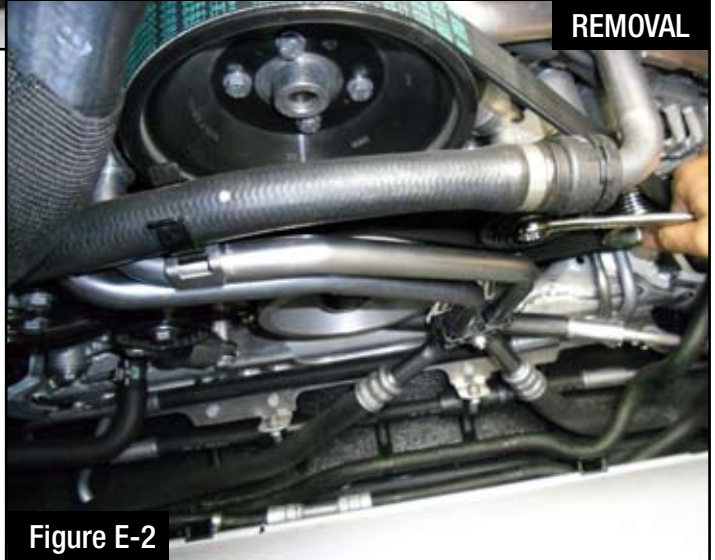
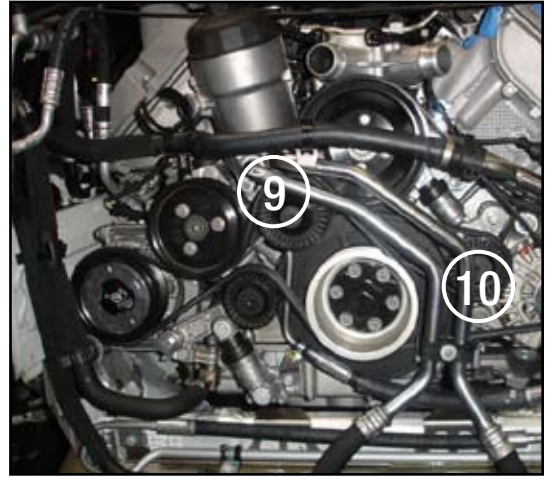


Figure E-2

Refer to Figure E-1 & 2 for steps 10-11

Step 10: Using 16 mm socket, remove idler pulley (9) located between power steering and water pump.

Step 11: Using 14 mm wrench, turn tensioner clockwise (10) to retract it and slide water pump/ alternator belt off.



Figure F

Refer to Figure F-1 & 2 for step 12

Step 12: Using T45 Torx, remove 6 bolts holding crank pulley ⑪ .

Figure F-2 shows stock crank pulley with cover against aFe power pulley.



Figure G-1

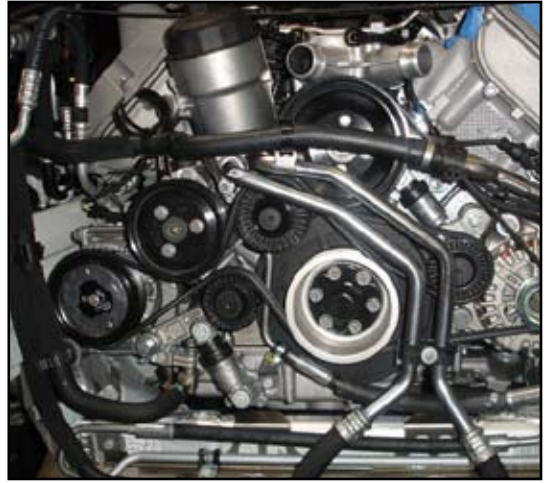


Figure G-2

Refer to Figure G-1 & 2 for step 13

Step 13: Position the stock pulley cover on to aFe Power Pulley and reinstall aFe Power pulley using furnished bolts. (torque bolts to 13 ft.-lbs. and a 40° turn)

INSTALL

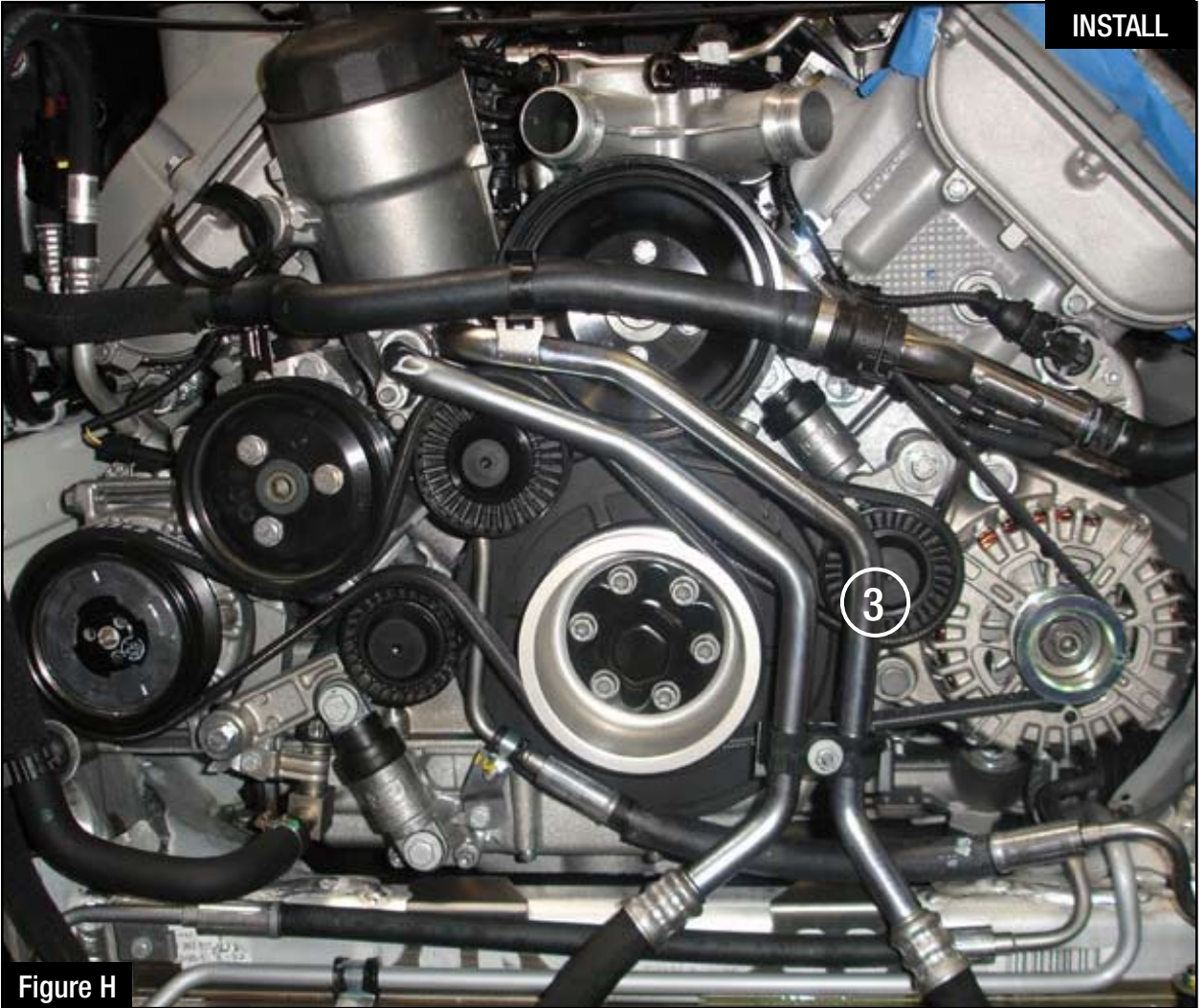
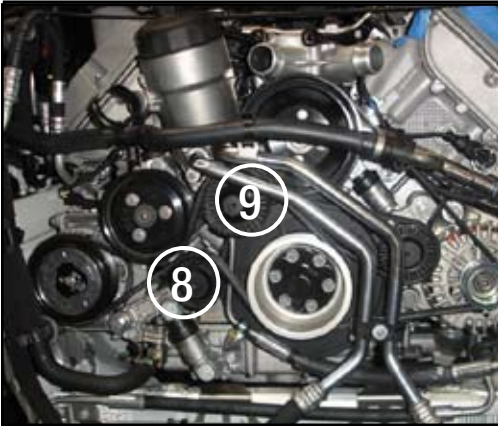


Figure H

Refer to Figure H for Step 14

Step 14: Install new furnished long belt (6PK1425) using 14mm wrench to retract tensioner ③.

Check diagram above for proper belt drive. (New belts follow same drive path as OE belts)



INSTALL



Figure 1

Refer to Figure 1 for Step 15-20

Step 15: Using 16 mm socket, re-install idler pulley (9) with new furnished double sided belt on.

Step 16: Install new furnished double sided short belt (6DPK1070) using 14mm wrench to retract tensioner (8). Check diagram above for proper belt drive.

Step 17: Check for proper belt tension and interference.

Step 18: Re-install fan shroud, air box and all removed components in reverse order.

Step 19: Check all clearances and tightness of all clamps and related hardware. Make adjustments as needed then tighten all bolts and clamps.

Step 20: The install is now complete!