



BAVARIAN AUTOSPORT

Exhaust Cam Gear Installation Instructions

ATTENTION: Please read these instructions thoroughly, step by step, before starting installation.

M3

M5

M6

PROCEDURE:

1. Remove distributor protective cap; disconnect loom and remove plug wires; remove distributor cap.
2. Remove rotor and rotor adapter.
3. Remove aluminum distributor cap adapter.
4. Remove spark plugs.
5. Remove valve cover.
6. Using socket on crank pulley nut, rotate crank clockwise to line up OT mark on pulley with mark on front cover. (TDC - cyl. #1). At this time, camshaft timing marks are centered in notches on rear side of the front bearing journals. *See Figure 1.*
7. Remove upper chain slide rail.
8. Remove cap-plug and chain tensioner assembly (tube, spring & piston) from right side of engine block. (Oil will drain from reservoir).
9. Bend lock plate tabs from bolt heads and remove cam gear bolts.
Warning: Be very careful not to drop any hardware into engine.
10. Remove rotor drive shaft then remove gear from cam and lift chain off gear. Pull out gear and let chain hang free. *Note: Be careful not to pull chain and rotate intake cam or crank shaft.*
11. Install new cam gear, reversing the procedure used for removal.
12. Rotate exhaust cam slightly counter clockwise to line up indexing dowel in gear.
13. Install rotor drive shaft, lock-plate and bolts - Do not tighten bolts at this time.
14. Install chain tensioner assembly. Be sure slot in piston head is in vertical position, and slot engages with tensioner rail.
15. Using socket, rotate crankshaft two complete revolutions and realign timing mark on pulley and front cover. Timing mark on intake cam should line up as before installation, exhaust cam timing mark should be slightly counter clockwise of notch. *See figure 2.*
16. Tighten cam gear bolts and bend locking tabs against bolt heads.
17. Install aluminum distributor cap adapter. Be sure to oil o-ring and shaft seal before installing.
18. Install rotor adapter. We recommend using thread locking compound on the securing bolt.
19. Install rotor.



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20. Fill tensioner oil reservoir by pouring a few ounces (about 1/4 to 1/2 quart - if too much, it will simply over flow into oil pan) of motor oil down right side of chain gear housing. See figure 2.
21. Install valve cover.
22. Install spark plugs, distributor cap, plug wires and distributor cap cover.
23. Start engine and let idle and oil pressure stabilize. Hold engine at fast idle of 2000 to 3000 rpm for 5 to 10 minutes, until chain tensioner pumps up and timing chain noise diminishes.
24. Check for oil leaks.

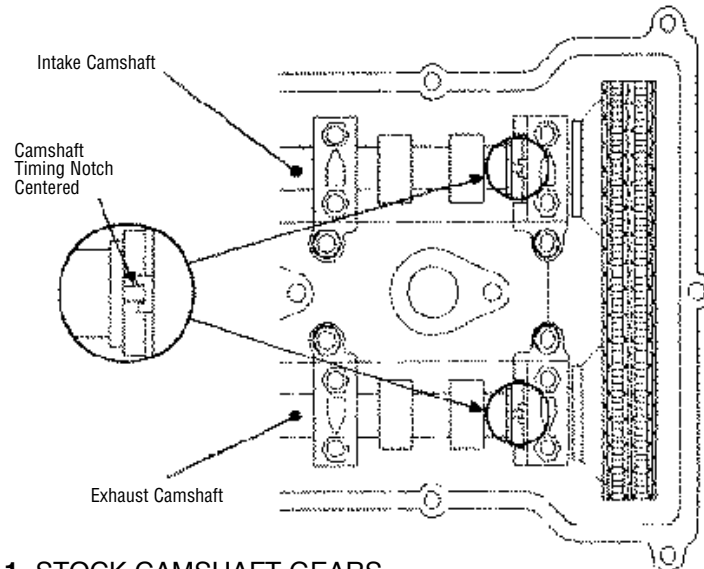


Figure 1 STOCK CAMSHAFT GEARS

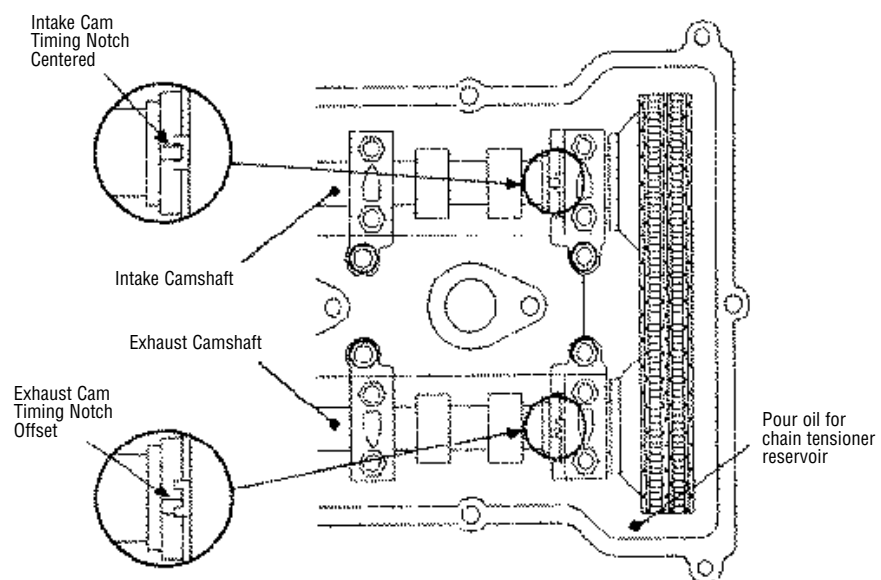


Figure 2 WITH BAVARIAN AUTOSPORT EXHAUST CAM GEAR

