1987 944 cylinder head torque specs

Posted by fishguy - 10 Mar 2009 12:20

I am putting on a fresh head on my 1987 spec 944 and my haynes shop manual does not give any specs for the torque for the cylinder head.

can anyone please give me the final torque spec for it.

i know i need to do it in 3 stages as well, so the 1st, 2nd, and final spec would be really appreciated.

thanks(in advance)

Josh

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Re:1987 944 cylinder head torque specs

Posted by dmdirks - 10 Mar 2009 13:15

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www.clarks-garage.com/shop-manual/cyl-03.htm

No torque specs for the last two tightening sequences on the late engine (or 12mm nuts), rather 90 degree torque angles. If you re-use the washers, be sure to remove all burrs from the surfaces first. Coat the threads of the stud with a light coat of engine oil. Finally, be sure to wait 15 minutes between stages!

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Re:1987 944 cylinder head torque specs

Posted by PorscheDoc - 10 Mar 2009 13:16

20nm, then 90 degrees, then 90 degrees. Make sure to oil the threads of the studs before install. I recommend using new nuts and washers anytime the head is R&R'd.

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Re:1987 944 cylinder head torque specs

Posted by fishguy - 10 Mar 2009 13:33

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thanks for the replies.

so how do i tell if i have the engine desigantion of

M44 05-08 or M44 05-10

this is a used race car that likely does not have the engine that came in it when it was sold new.

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Re:1987 944 cylinder head torque specs

Posted by joepaluch - 10 Mar 2009 22:22

Josh,

Don't worry about the designation. If you have 12 mm nuts then uses the 90 deg 90 deg. Otherwise go 15, 37,66 ft-lbs. Interestingly this is different from what I have read out of the shop manual. I Torque down hand tight and then do a 90 deg angle once. I have done so for all my motors with never any issues.

I have however used year various heads on a various year blocks.

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Re:1987 944 cylinder head torque specs

Posted by PorscheDoc - 11 Mar 2009 08:40

Interestingly enough, I used a buddies snap on digital torque wrench on a head today, which has an angle meter built in in 1 degree increments. He wanted me to try it out over the traditional angle meter, so I figured what the heck. It tells you the angle you are at, and beeps when you hit the preset spot...in this case 90 degrees. After you remove the pressure at 90 degrees, it tells you the torque as well. The torques were different on every nut. IIRC the 1st 90 degree swing was anywhere from 35-45ft/lbs, and the second was anywhere from 65-72ft/lbs.

Makes me question the validity of the 90 degree method, though that is what I have used on the gabillion heads i have R&R'd and never had an issue. I figured the tolerances would be much closer than that.

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