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Micro Image YARIS car club

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05-10-2008, 01:02 PM #

**RningOnFumes**
★★★★



Drives: 2008 Flint Mica Yaris w/ power
Join Date: Nov 2007
Location: San Bernardino, CA >>>>>SoCal
Posts: 947

**Oil Change DIY**

Even thought this is a pretty easy exercise, I guess I must still put a disclaimer:

YarisWorld and RningOnFumes are not responsible for any damages or should your car burst into a billowing cloud of gasoline embers. Should you go ahead with the following instructions, please be prepared and follow the directions. Again, YarisWorld and RningOnFumes are not responsible for any actions you take which may cause damage to your car.

If you can't handle an oil change...get to know your mechanic well.

Maintenance light Reset:
1. Key in ignition
2. Trip meter at either trip A OR trip B
3. Press and hold down the trip button while turning the igntion to "ON" position. DO NOT START ENGINE.
4. IF you did it right, you'll see bars run across horizontally and click off in succession (almost like a count down).
5. At the end of this count down, you'll see the light disappear.

For more info, consult Manual.

1. Buy supplies.
1. Oil: The cap says 5W30, there is a TSB that states you can use 5W20. I went with 5W20 to stay under warranty. You can go lower or higher. When to go any lower or higher depends on your climate and driving pattern. Remember though, stay within Toyota recommendations for warranty.
2. Oil Filter: Size Mobil M1-103 OR Toyota 90915-YZZF2 DENSO (made in Thailand) OR if you can find it: Nippon Denso

90915-10003 or 4 (Made in Japan) -which is a much better quality than the Denso. Or find the bran you like in the appropriate size. As for other brands, you can try non premium ones because they cost as much as 5-10 dollars less, just stick with the brand names and you should be fine. AND ....NO FRAM!!!! I REPEAT, NO FRAM.

Quote:

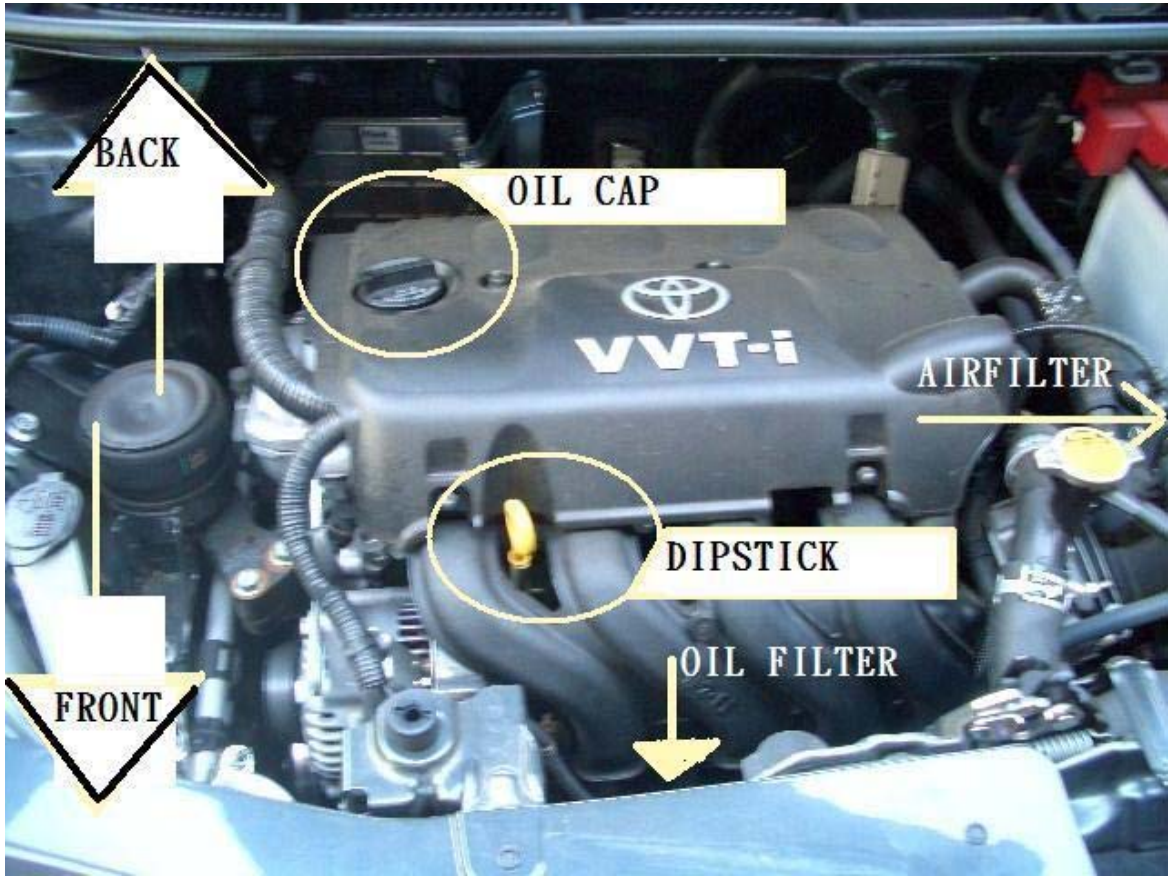
> Originally Posted by **Grumpy_in_NH;269751 Of YarisWorld**
> *I would never-EVER use the toyta Thailand filter again its very low quality compared to Toyota Japon, Nippon Denso 90915-10003 or 4. NO FRAM!*

3. Filter Cap socket attachment *(I believe it is the size "A"...to be sure, just take one of the new filters in the store and test fit it there.)*
4. Socket Wrench
5. Size 14mm Socket
6. Oil Catch Can

After your first change, your following times, you'll only need Oil filter and Oil.




2. Getting to know where everything is:


BACK
OIL CAP
VVT-i
AIRFILTER
DIPSTICK
OIL FILTER
FRONT




Underside pic from RShatchback of Yarisworld.

_____ _____ _____ _____

Now for the actual changing.....
NOTE: It is advisable that you warm up the engine to operating temps to mix up any thing deposits into the oil so it drains with the oil. Also important to note that if you feel the oil pan is too hot...wait a bit or use gloves.

1. Drain Oil using 14 mm Socket to remove oil plug. Use the wrench first to loosen the plug, then place Oil catch can under and proceed to twist the the plug loose.




A) Open the Oil Cap at the top of the engine to let air in if you wish for the oil to drain a bit faster.
B) Wait until the oil comes out to a few trickles.
C) Wipe down the oil pan. Clean up the drain plug.
D) Put the cleaned plug back into the pan. Be careful not to force it or you will strip the bolt and/or the hole. Tighten to firm with the socket wrench.

2. Oil filter. (REMEMBER OIL MAY STILL BE TOO HOT TO HANDLE THE FILTER)
A) Attach the oil filter cap to the socket wrench or use an appropriate oil filter wrench. I like the cap because of the small space.
B) Drag the oil catch can under the oil filter
C) Loosen the filter from the top of the engine (more room to work with). Remember because the filter is upside down,

you twist right to loosen.






Note: Twists reversed because you are viewing it from the top and the filter itself is mounted upside down.

Quote:

> Originally Posted by **Grumpy_in_NH**
> *Not bad - but wrong on one point: Its Left-Lucy, Righty-Tighty on the filter. Actually there is no left or right. Its anti-clockwise to loosen (unless its a flammable gas fitting). Also I would never-EVER use the toyta Thailand filter again its very low quality compared to Toyota Japon, Nippon Denso 90915-10003 or 4. NO FRAM!*

D)Use hand to twist the filter off. The Oil Filter will still have residual oil in it, turn it over and place it onto the catch can to continue draining. Wipe the opening of the Oil Filter nozzle.
E)Prepare the new oil filter by holding it upside down. Fill in from half to full of new oil. Spread some of the new oil on and around the oil filter gasket.

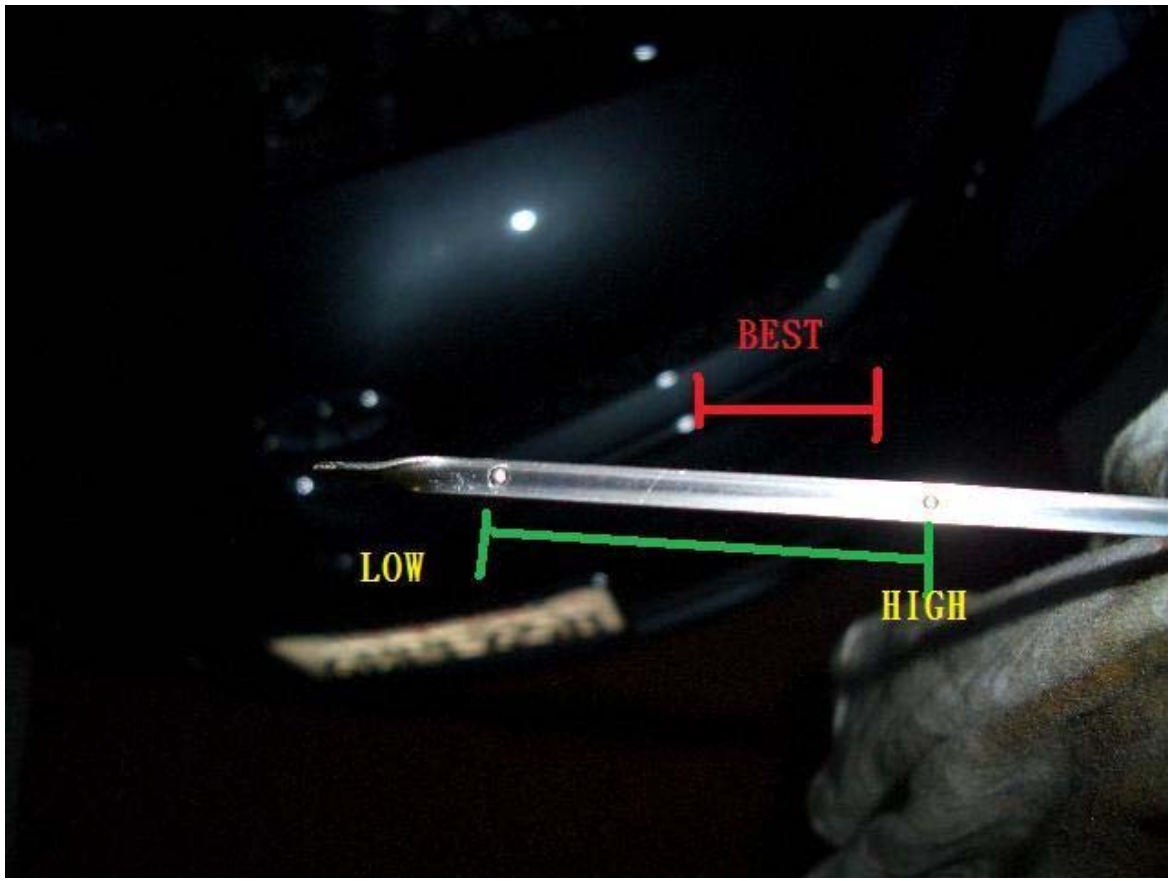


F) Take out the old filter and catch can from underneath the car. Put in the new, prepared one. Twist to the left to hand tightness. **yes, hand tight** If you want torque specs. scroll down to Discussion C.

3. Filling:
A) Open Oil Cap (if you haven't done it yet). Place Funnel in hole.



B) Fill to about 3 quarts and stop. If you're using the big 5qt Jug from wally world, put in a little under 3/4 of the jug.
C) Replace the oil cap. Wipe your hands and go start the engine and let her sit.
D) While the engine is running: Take a rag and start wiping things down. What you're doing is looking for leaks from the oil plug and from the oil filter. Of course don't stick your fingers where they don't belong while the engine is on.
E) After about 2-3 minutes, shut down the engine and pull the dip stick. Wipe it off and put it back in. Now pull it and look at where the oil is. because you only put in about 3 qts. The oil most likely will only be at the very tip of the dip stick. Put the Dipstick back in and fill up about half a qt. Run the engine again.
F) After another 2-3 minutes, stop the engine and check the dipstick. Oil should be around the bottom to middle (between the two dots).




G)....continue this until it gets to the middle...if you at the middle...YOU'RE DONE!
H) Clean up, save oil and oil filter receipts for your records. Go have a beer or something.

4. Afterwards/Discussion
A) Check air filter to see if it needs replacing. Check wiper fluid levels. Check tranny dipstick (if you have one).
B) After the first day, then the week, then two weeks, check the ground under the car after you've pulled out to see if there are leaks. This just means tightening things up.
C) The Oil plug under the car should have been just firm with the wrench, the oil filter could have been just hand tight. If you are anal retentive, you may use the wrench to twist to firm. But the hand tightness is to help you for the next change, when that time comes, even if you did it to hand tightness, you will still find yourself needing a wrench.
As for Torque specs:

Quote:

> Originally Posted by **aca72**
>
> *Oil plug (with new gasket)...*

> *38 N*m (382 kgf*cm, 28 ft.*lbf)*
>
> *Oil filter...*
> *13 N*m (133 kgf*cm, 9.5 ft.*lbf)*
> *If the available workspace is insufficient to use*
> *a torque wrench, tighten the oil filter a 3/4 turn*
> *by hand or use a common wrench.*
>
> *http://www.etimago.com/yaris/repairmanual/*

D) About oils. You can stay Dino (non-synthetic) if you wish, this won't hurt the engine in the least bit as long as you do it within the service intervals. Those of you who want to do synthetic may see a slight increase in performance and mileage (more mileage than performance). As far as brands...stick with the name brands and you will be fine. If you want some homework go to these two places for education:

1. General knowledge on Oils: http://www.carbibles.com/engineoil_bible.html
2. Great discussions on Oils: http://www.bobistheoilguy.com/forums

E) Service Intervals... If you don't want to get into the debate, stick with the 5000miles Toyota recommends...plus it doesn't **void the warranty**. Now if you are past the warranty (usually 36,000miles or 3 years), You could up the interval to near 10k miles if you want on certain synthetics.

> Quote:
>
> Originally Posted by **ToddR**
> *Make sure your oil meets or exceeds the minimum specs required by Toyota.*

## Keep all receipts for future records! Write in a log the mileage, type of oil (ie 5w-20), and Filter type/brand.

**F. PLEASE DISPOSE OF YOUR USED OIL CORRECTLY.** MOST AUTO PARTS STORES ARE HAPPY TO TAKE YOUR USED OIL. EVEN YOUR LOCAL MECHANIC WILL AS WELL, TAKE THE OIL FROM YOU.

Shroomster's words of wisdom IE.. Tips:

- ALWAYS CHECK TO MAKE SURE THE OLD OIL FILTER GASKET IS REMOVED FROM THE OIL FILTER HOUSING ON THE ENGINE BLOCK BEFORE INSTALLING NEW FILTER

- TIGHTEN THE OIL FILTER PAST HAND TIGHT...everyones hand tight is different..you should tighten it to where you can't loosen it with moderate pressure with your weaker hand

- if you don't have a torque wrench available (only the by the book people use one; try using one on flat rate for an oil change go on do it) take the wrench or ratchet you're using place it on the plug and tap it with your palm just past where you tightened it..maybe twice. ensures it won't vibrate loose.

- If possible change the crush washer on the drain plug every oil change (it is why a torque wrench is recommended) keeps the plug from seizing to the pan and helps to prevent the plug from stripping out the pan threads it crushes in from the tightening

- always turn the car on and check underneath for leaks before you are done.

_____







Quote:

> Originally Posted by **cgherr**
> *My car has four handles in the roof so the passengers can carry if it runs out of gas.*

*Last edited by RningOnFumes : Yesterday at 06:25 PM.*

user: online

quote

05-10-2008, 03:22 PM #2

**jvgillow**

Drives: Yaris liftback S
Join Date: Apr 2008
Location: Florida
Posts: 63

Nice job with the write-up. You might want to mention something about properly disposing of used oil, but most people should already know that.

user: offline

quote

05-10-2008, 03:59 PM #3

**RningOnFumes**
★★★★

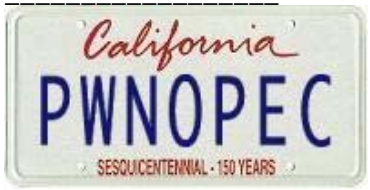


Drives: 2008 Flint Mica Yaris w/ power
Join Date: Nov 2007
Location: San Bernardino, CA >>>>>SoCal
Posts: 947

user: online

lol...forgot that...Thanks, I'll add it.

_____







Quote:

> Originally Posted by **cgherr**
> *My car has four handles in the roof so the passengers can carry if it runs out of gas.*

quote

05-10-2008, 05:03 PM #4

**aca72**
★★★

Drives: '07 Yaris S Sedan M5
Join Date: Jul 2007
Location: Santa Clara, CA
Posts: 467

user: online

Is it better to use a torque wrench for tightening the oil drain plug assuming we know the torque value?

_____

• First Anniversary FE Report • The Order of Battle • Japanese Beetle Inc. • B2 Perfection Auto Body Shop •

quote

05-10-2008, 05:44 PM #5

**RningOnFumes**
★★★★

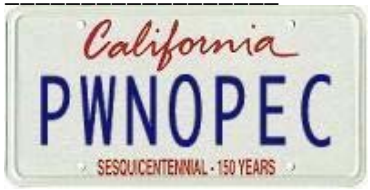


Drives: 2008 Flint Mica Yaris w/ power
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Location: San Bernardino, CA >>>>>SoCal
Posts: 947

user: online

find out and I'll add it in. But really....for an oil change?

_____







Quote:

> Originally Posted by **cgherr**
> *My car has four handles in the roof so the passengers can carry if it runs out of gas.*

quote

05-10-2008, 07:43 PM #6

**aca72**
★★★

Drives: '07 Yaris S Sedan M5
Join Date: Jul 2007
Location: Santa Clara, CA
Posts: 467

user: online

Found it!

Oil plug (with new gasket)...
38 N*m (382 kgf*cm, 28 ft.*lbf)

Oil filter...
13 N*m (133 kgf*cm, 9.5 ft.*lbf)
If the available workspace is insufficient to use a torque wrench, tighten the oil filter a 3/4 turn by hand or use a common wrench.

http://www.etimago.com/yaris/repairmanual/

_____

• First Anniversary FE Report • The Order of Battle • Japanese Beetle Inc. • B2 Perfection Auto Body Shop •

quote