

A Quick Tour
Of your
RX8



This is your RX8... Nice!



Your Mazda RX8 uses a Rotary type Engine. It can rev to 10,000 rpm!



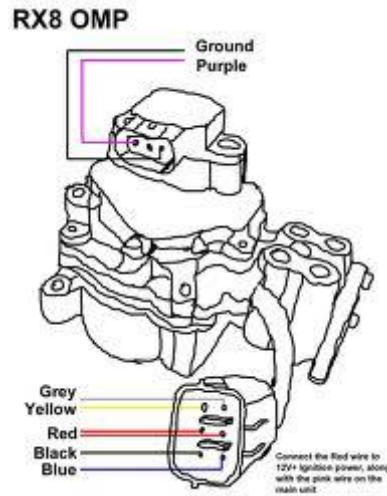
10,000 RPM



For best performance and extended engine life the combustion chamber needs to be heavily lubricated with oil during everyday operation. This helps keep the engine cool while also lubricating its seals.



Luckily your RX8 has an Oil Metering Pump (OMP) installed in the engine bay area to pump oil from the oil reservoir and inject it into the combustion chamber during operation. The higher the RPM, the more oil the OMP injects into the combustion chamber to keep it cool and lubricated. Awesome Dude!



Your RX8 loves OIL! Feed it as much oil as it needs and it will be happy for years!



Make sure you check the engine oil every 1,000 kms

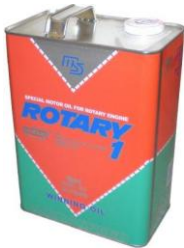


Your RX8 rotary engine will consume oil during normal operation. After 1,000 kms the dipstick should show about 30% - 50% less oil in the reservoir.



Add engine oil until the dipstick shows full again.

Your RX8 is very choosy which oil it likes.



RX8 loves this Oil:

- 100% Mineral Oil (will burn during combustion.)
- rated API SL/SM.
- 5W-20 (shagalicious baby! keeps engine cool and lubricated).
- 5W-30 (sweet and easy).
- 10W-30 (OK but no cherry pie).
- Special Rotary Oil (must be Mazda approved).

RX8 hates this Oil:

- Semi- or fully-synthetic oil (won't burn; pollutes combustion chamber and exhaust systems).
- 10W-40 (sticky and chewy).
- 20W-50 (too thick and could cause engine to overheat).
- Do NOT use any type of friction modifiers in your RX8!

How do you know what oil to feed your RX8?

There are two basic oil requirements for your RX8 rotary engine: 1) The oil must be **100% mineral oil** so that it burns during combustion; 2) and the oil must be the correct weight to provide lubrication to the tight seals of the rotary engine. Other requirements that are general in nature to all cars including your RX8 would be a min. API rating of SL/SM.

Mazda recommends **5W-20** mineral oil. If you can find it, use it. But this can be difficult to find away from your Mazda dealer. However, there are some simple steps to follow that will help you choose the correct oil for your RX8.

You must use 100% mineral oil in your RX8! Luckily this is easy to find anywhere in most gas stations and auto maintenance shops (**Castrol GTX, Shell Yellow**). However finding 100% mineral oil that is thin enough to keep your RX8 happy is another matter entirely. You will notice most gas stations and auto maintenance shops stock mineral oil with weights of 10W-40 or 20W-50, all of which are too thick to provide sufficient lubrication to those really tight seals. Luckily Autobacs sells Autobacs White Can **5W-30 mineral oil**. The RX8 loves this oil and will consume as much as you can feed it. Use it if you can find it. Some shops will stock Shell Yellow at 10W-30 which is probably the heaviest you should use in the rotary engine, but anything heavier than 10W-30 will reduce the performance and life of your rotary engine.

Knowing if your oil is the correct weight you should make a habit of monitoring the oil consumption on a regular basis. If your RX8 rotary engine is getting enough oil during everyday operation you will notice your oil marker on your dipstick drop to about half every 1,000 kms so check your oil dipstick after every 3 tank fills. If the oil level falls to about half mark on the dipstick then you can be sure your rotary engine is being fed plenty of oil!

Run this check after 1,000 kms:



GOOD: Dipstick shows oil level falling. Now would be a good time to add more oil to your engine wouldn't you say?



BAD: Dipstick shows oil level not falling and is the same level after 1,000 kms. Oil is not being injected into the combustion chamber because it is too heavy or the OMP is malfunctioning.

RACING YOUR ENGINE

Your RX8 loves you to race its engine, but it wants to warm up first. The RX8 will not let you race the engine until it is properly warmed up.



1 red bar - Your RX8 wants you to race!



3 red bars - Your RX8 doesn't want to race yet! Let it warm up first. It will only take a couple of minutes. Why not play some Barry White while you wait. Can't get enough of your love baby!

TURNING OFF YOUR ENGINE

Your RX8 doesn't like the engine to be stopped when it is cold. If you start your engine cold and want to turn it off wait until the engine is warm before turning the ignition off. It will only take about 2 minutes for your RX8 to change from 3 red bars to 2 red bars, and about 4 mins to full race warm up: a sexy wanting luscious glowing **1 red bar!**



OK! TURN OFF ENGINE

1 red bar
2 red bars



WAIT! DO NOT TURN OFF ENGINE.

3 red bars