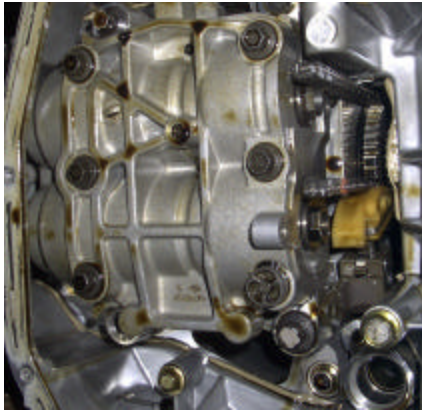


Nissan QR25DE Balancer Shaft Removal kit Installation instructions

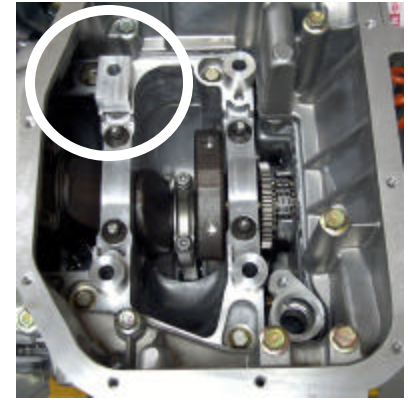
Special required tools: E-Torx E14 socket, 24" bolt cutters, and a 10m.m. deep offset box wrench.
(If the E-Torx socket is not available, you may be able to use a 6 point 10m.m. socket for the 4 long assembly bolts.)



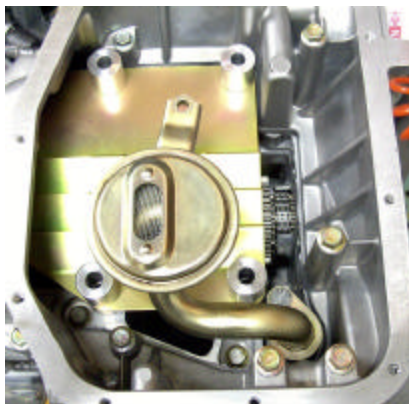
Remove the oil pan and oil pickup. Unbolt the chain guide. The lower tensioner/guide bolt will hit the cover just before it falls out, so it must be pried on slightly or cut to remove it. Remove the chain guide covering the sprocket and unbolt and remove the sprocket. The drive chain can then be cut using bolt cutters and removed. Any other method of cutting the chain may cause metal chips to enter the engine. Remove the chain tensioner (see next step).



The upper tensioner bolt is difficult to unbolt, but it can be removed using a **10m.m. deep offset box wrench** (Snap-on or Sears). You can't see the upper chain tensioner bolt with the front cover installed, but this is how it looks with the offset wrench on it. Back it out as far as possible with the wrench, then use 2 long screwdrivers on the bolt head to twist it out the rest of the way. Remove the tensioner.



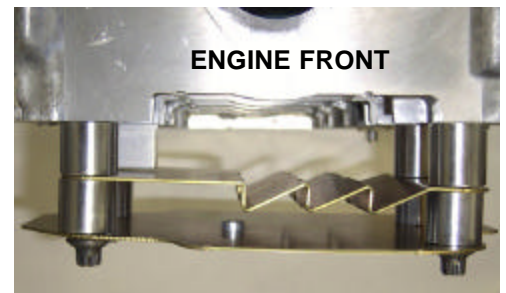
Remove the 4 assembly bolts (E-TORX) and pull it away from the engine. Lightly pry it sideways until it clears the pan lip at the rear edge. It is a tight fit but moving the assembly's position slightly as you do this will allow it to come free. Remove the assembly alignment dowel pins. They can be pulled out with Visegrips. Glue (silicone) the **short spacers** and the **oil block-off spacer** (circled) into place (if you are doing this in the car). You must insure that the oil feed block-off spacer's dowel pin is in the oil feed hole and positioned as shown above.



Install the oil scraper plate and reinstall the oil pickup (it's hard to tighten if done later). Glue the **long spacers** to the oil scraper as shown above. You may need help holding all of this in place until the long bolts are in place in the next step.



Install the oil baffle plate using the 4 original assembly bolts. Torque all 4 bolts first to 37 lb/ft. Finally turn each bolt an additional 90 degree. Bolt the oil pickup support bracket to the oil baffle using Loctite and the supplied bolt, washer, and aluminum spacer.



The stack up should look like this if the plates are installed correctly. Inspect your work carefully. Install the oil pan using suitable silicone sealant. An additional quart of oil capacity is created by removal of the balancer assembly, so check the oil level carefully.