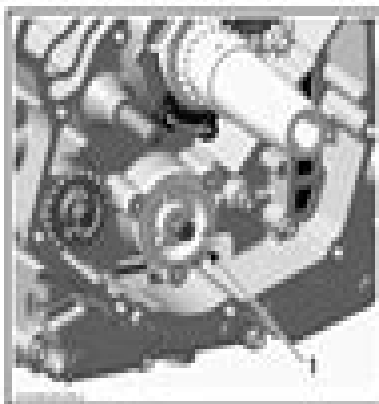


OIL PUMP

Oil Pump Location

The oil pump is located on the engine PTO side behind PTO cover.



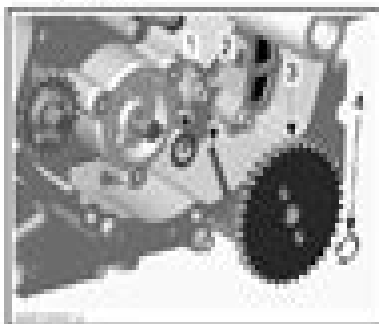
1. Oil pump

Oil Pump Removal

Remove the PTO cover. Refer to PTO COVER in the BOTTOM END subsection.

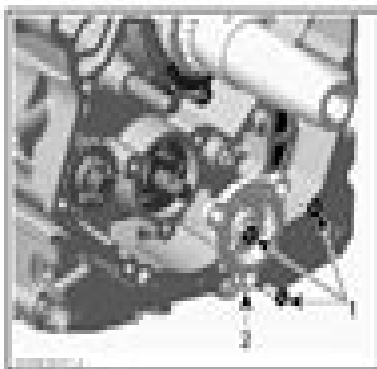
1. Remove:

- Retaining ring
- Oil pump gear
- Needle pin
- Thrust washer



1. Thrust washer
2. Needle pin
3. Oil pump gear
4. Retaining ring

2. Remove oil pump cover screws and pull oil pump cover out.



1. Needle pin and inner rotor
2. Remove oil pump shaft with needle pin and inner rotor
3. Remove outer rotor



4. Outer rotor

Oil Pump Inspection

Inspect oil pump and oil pump cover bore for marks, scratches or other damages. Check for scratches in clearance between outer rotor and oil pump bore. If so, replace damaged parts.

Check oil pump cover for damages and for surface straightness with a straightedge.



1. Oil pump bore
2. Outer rotor
3. Oil pump shaft
4. Needle pin
5. Inner rotor

Check inner rotor for compression pin holes or other damages. If so, replace oil pump shaft assembly.

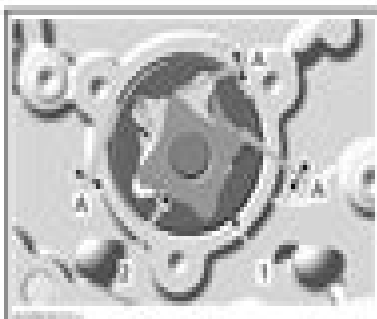


1. Clearance between

Using a feeler gauge, measure the clearance of inner and outer rotors as shown.

CLEARANCE OF INNER AND OUTER ROTOR

SERVICE LIMIT	0.25 mm (0.010 in)
---------------	--------------------



1. Inner rotor
2. Outer rotor
3. Oil pump shaft

If clearance of inner and outer rotors exceeds the tolerance, replace oil pump rotors. Ensure to also check oil pump cover. If damaged, replace the complete oil pump assembly.

If clearance between outer rotor and its bore in precase exceeds the tolerance, replace the complete oil pump rotors and/or the precase.

Using a depth gauge, measure the axial clearance of the oil pump as shown.



1. Axial clearance of oil pump

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