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Caterpillar

Service Manual

D349 Engine

Industrial and Marine

S/n 61P & 62P

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CT-S-ENG D349

Service Manual

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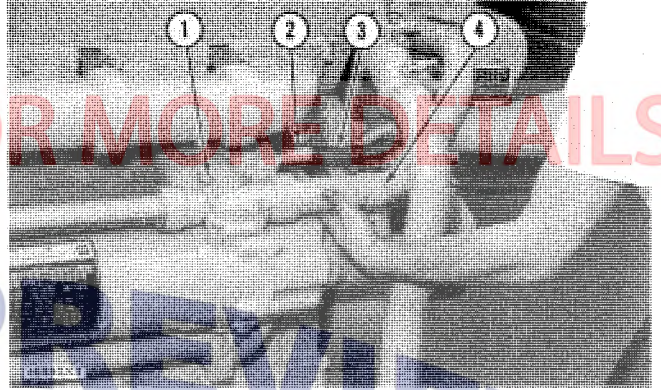
**DISCONNECT BATTERIES BEFORE
PERFORMING SERVICE WORK**

OIL COOLER BYPASS VALVE

REMOVE OIL COOLER BYPASS VALVE

11-1314

1. Drain oil filter housing.
2. Remove the valve cover plate. Remove valve spring (3) and plunger (2).
3. Remove clamp retaining bolt (4). Remove valve body mounting bolts (1), and remove valve body.



INSTALL OIL COOLER BYPASS VALVE

12-1314

1. Clean all parts thoroughly before assembling valve.
2. Position the valve body (1) on engine, and install mounting bolts.
3. Install clamp retaining bolt.
4. Lubricate the plunger and bore in valve body with clean SAE 30 oil.
5. Install plunger and spring in valve body.
6. Install cover plate.
7. Check the oil level in crankcase and fill as necessary.



PRELUBE OIL PUMP

DISASSEMBLE PRELUBE OIL PUMP

15-1319

preparatory step:

a) remove prelube oil pump

1. Remove oil inlet line assembly (1).
2. Remove head assembly mounting bolts (2). Remove idler assembly from head assembly.
3. Remove rotor from pump housing.
4. Remove seals from housing. Remove socket head screw from housing.

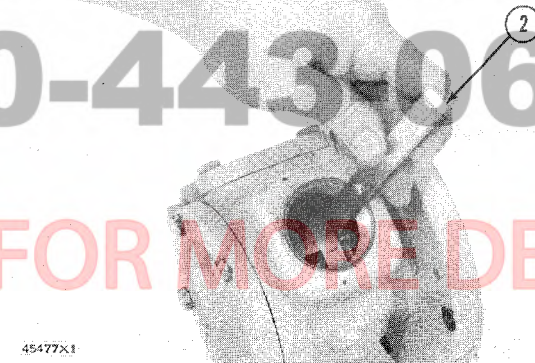
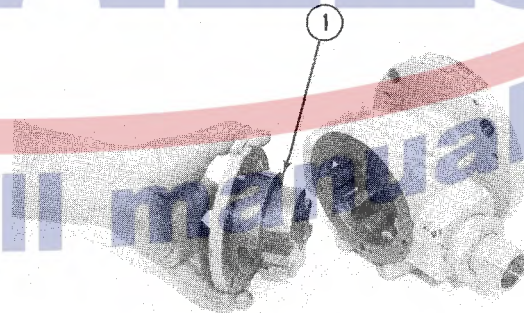
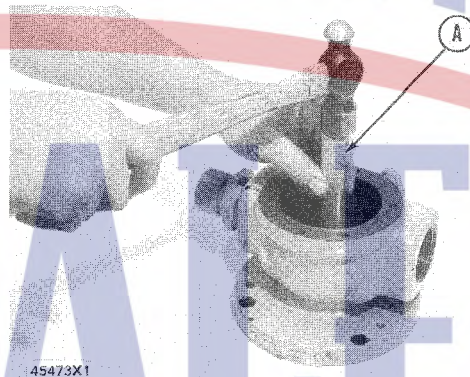


ASSEMBLE PRELUBE OIL PUMP

16-1319

Tools Required		A
1P529	Handle	1
1P482	Drive Plate	1

1. Using tool setup (A), install the seals in housing, with lips away from each other. Install socket head screw (in oil outlet port).
2. Install idler on head assembly. Install rotor in housing. Position head assembly (1) on housing and install mounting bolts.
3. Check rotor end clearance with thickness gauge (2). Rotor end clearance should be .003-.005 in. (0,076-0,127 mm).
4. Remove head assembly and add gasket shims as required. Install head assembly and mounting bolts.
5. Install inlet oil line assembly.



concluding step:

a) install prelube oil pump