

Product: WHEEL LOADER

Model: 926 WHEEL LOADER 8NB

Configuration: 926 WHEEL LOADER 8NB00001-01541 (MACHINE) POWERED BY 3204 ENGINE

Disassembly and Assembly 3204 VEHICULAR ENGINES

Media Number -SEN3230-00

Publication Date -01/10/1985

Date Updated -30/11/2001

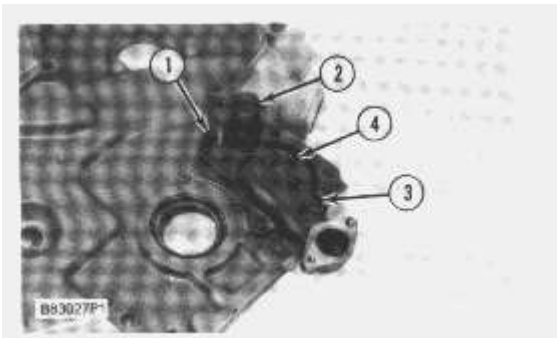
Oil Pump And Relief Valve

SMCS - 1304-011; 1304-012

Remove Oil Pump And Relief Valve

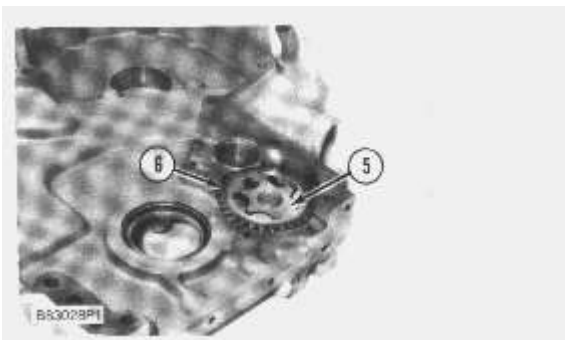
START BY:

a. remove timing gear cover

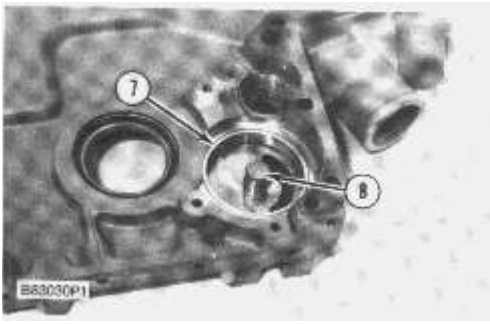


1. Remove the bolt and retainer (1) that hold guide (2) for the relief valve. Remove guide (2), the spring and the plunger from the timing gear cover.

2. Remove bolts (3) and oil pump cover (4).



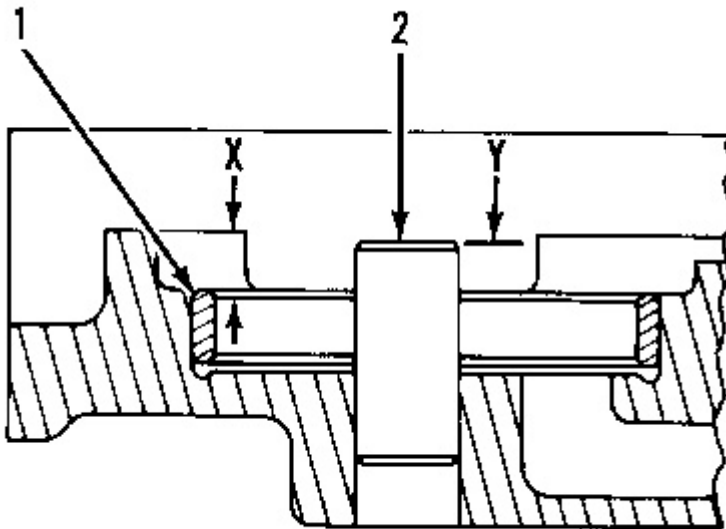
3. Remove inner rotor (5) and outer rotor (6) from the timing gear cover.



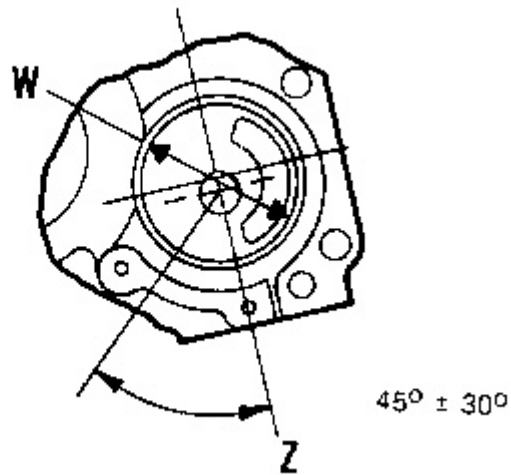
4. Remove bearing (7) and shaft (8) from the timing gear cover if a replacement is necessary.

Install Oil Pump And Relief Valve

Tools Needed		A	B	C
1P510	Driver Group	1		
8S2285	Driver		1	
	Crows Foot, 1 1/8 in.			1

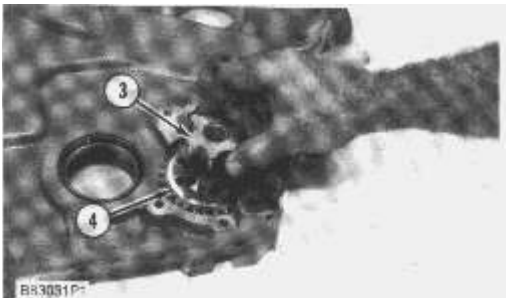


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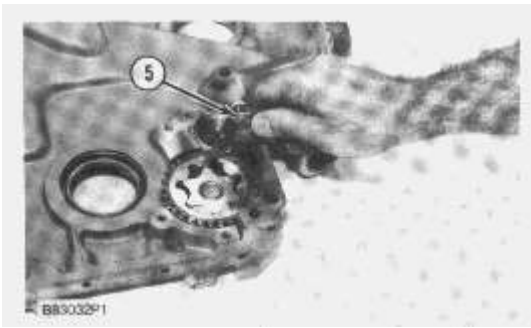
1. Install shaft (2) in the timing gear cover until dimension (Y) is 21.84 ± 0.25 mm ($.860 \pm .010$ in.).
2. Use tooling (B) to install bearing (1) in the timing gear cover until dimension (X) is 8.74 ± 0.25 mm ($.344 \pm .010$ in.). Also, the bearing joint must be located $45^\circ \pm 30^\circ$ from centerline (Z).
3. After installation of the bearing in the timing gear cover, check the inside diameter. The inside diameter (W) of the bearing must be 71.22 ± 0.05 ($2.804 \pm .002$ in.).



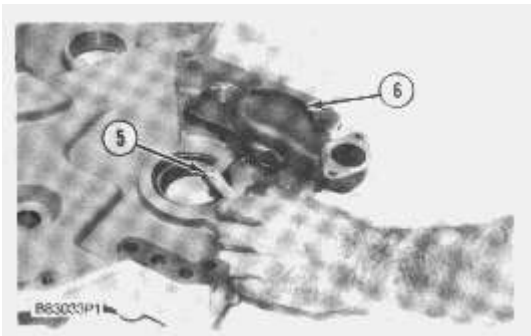
NOTICE

When the outer and inner rotors are replaced, they must be replaced as a set.

4. Install outer rotor (4) and inner rotor (3) in the timing gear cover.

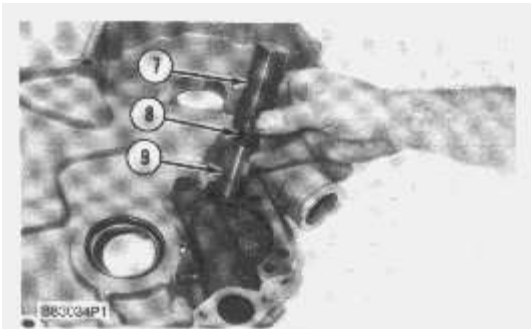


5. Check the clearance between the inner and outer rotors with feeler gauge (5) as shown. The clearance must be 0.05 to 0.20 mm (.002 to .008 in.). The maximum permissible clearance must not be more than 0.28 mm (.011 in.).



6. Put cover (6) in position on the timing gear cover, and install the bolts that hold it in place.

7. Check the oil pump end clearance with feeler gauge (5). The maximum permissible end clearance must not be more than 0.120 mm (.0047 in.). If the end clearance is more, replace the inner and outer rotors as a set.



8. Install plunger (9), spring (8) and guide (7) in the timing gear cover. Use tooling (C) to tighten guide (7) to a torque of 41 ± 7 N·m (30 ± 5 lb.ft.).

9. Install the retainer and bolt that holds the guide in the timing gear cover.

END BY:

a. install timing gear cover

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Timing Gears And Plate

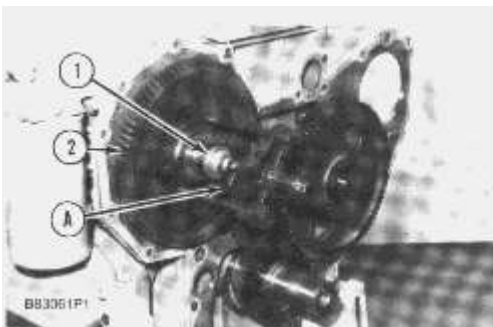
SMCS - 1162-011; 1162-012; 1206

Remove Timing Gears And Plate

Tools Needed		A	B
8S2264	Puller Group	1	
8B7560	Step Plate	1	
0T0513	Bolt [3/8"-24 NF x 4 in. (101.6 mm) long]	2	
8M7145	Washer	2	
1P510	Driver Group		1

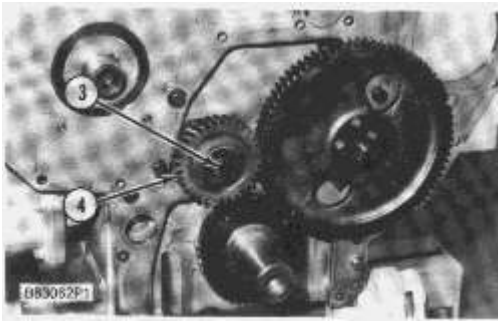
START BY:

a. remove timing gear cover

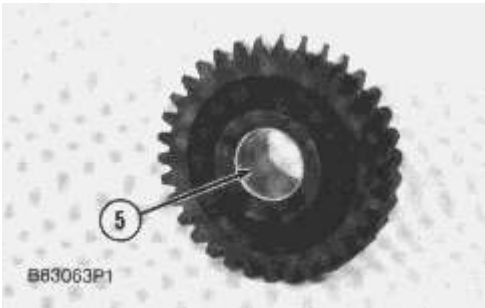


1. Loosen bolt and washer (1) that hold fuel injection pump drive gear (2) to the fuel injection pump camshaft until the washer is approximately 3.20 mm (.125 in.) from the gear. Do not remove the bolt and washer at this time.

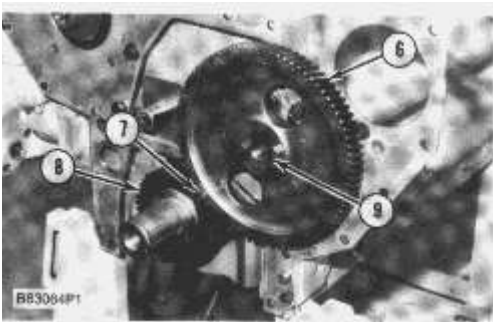
2. Install tooling (A) on the drive gear. Tighten the screw in tooling (A) until the drive gear is loose. Remove tooling (A), bolt and washer (1) and drive gear (2).



3. Remove bolt (3), the lock and washer and idler gear (4).



4. Remove bearing (5) from the idler gear with tooling (B).

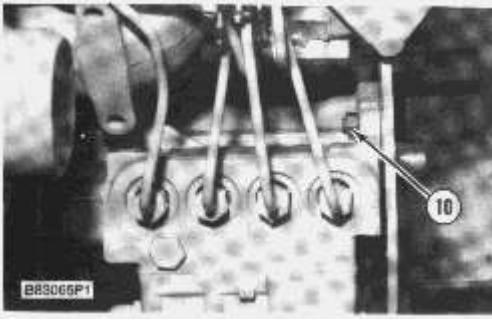


5. Turn the crankshaft until "C" marks (7) on crankshaft drive gear (8) and camshaft drive gear (6) are in alignment with each other.

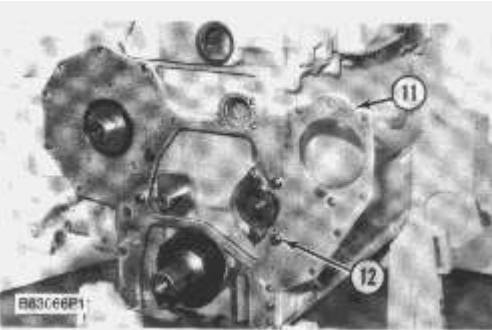
NOTICE

Do not turn the crankshaft after the camshaft drive gear has been removed. Damage to pistons or valves or both can result.

6. Remove bolts (9) and camshaft drive gear (6) from the camshaft.



7. Remove three nuts (10) from the studs that hold the fuel injection pump housing to the timing gear plate.

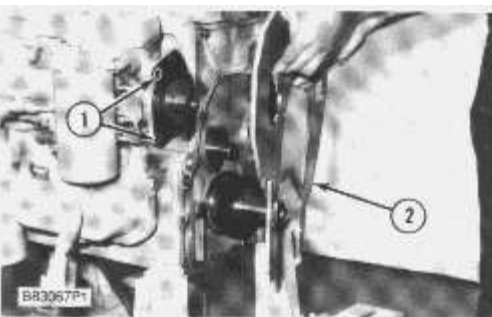


8. Remove bolts (12) and timing gear plate (11) from the cylinder block.

Install Timing Gears And Plate

Tools Needed		A
1P510	Driver Group	1

1. Clean the old gasket from the contact surfaces of the timing gear plate and the cylinder block. Install a new gasket on the cylinder block. Cut the gasket even with the bottom face of the cylinder block. Put 5H2471 Cement on the bottom of the gasket where the gasket makes contact with the gasket for the oil pan.



2. Be sure O-ring seals (1) are in position on the end of the fuel injection pump housing.

3. Put timing gear plate (2) in position on the cylinder block. Install the four bolts that hold the plate in place. Install the three nuts that hold the fuel injection pump housing to the back of the timing gear plate.

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