

Product: TRACK LOADER

Model: 953 TRACK LOADER 77Y

Configuration: 953 TRACK LOADER / HIGH DRIVE / 77Y00001-01092 (MACHINE) POWERED BY 3204 ENGINE

## Disassembly and Assembly 3204 VEHICULAR ENGINE FOR 943 & 953 TRACK-TYPE LOADERS

Media Number -SEN4214-00

Publication Date -01/04/1985

Date Updated -11/10/2001

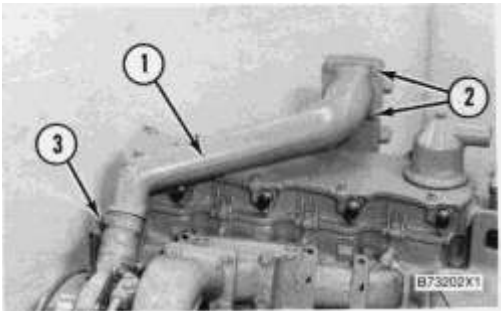
### Valve Cover (Later)

SMCS - 1107-011; 1107-012

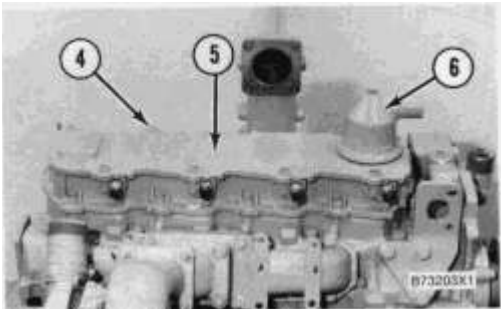
### Remove Valve Cover (Later)

START BY:

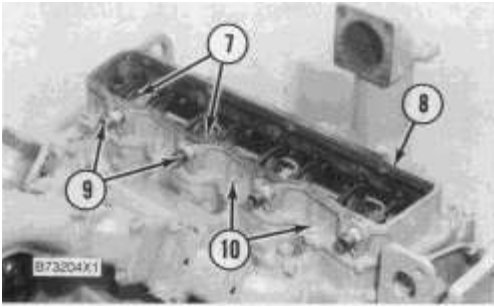
- a. remove fuel injection lines



1. Loosen hose clamp (3), and remove four bolts (2) and pipe assembly (1).



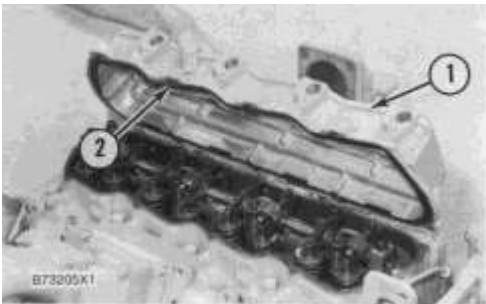
2. Remove bolts (4) and valve cover (5).
3. Remove bolt and breather assembly (6).



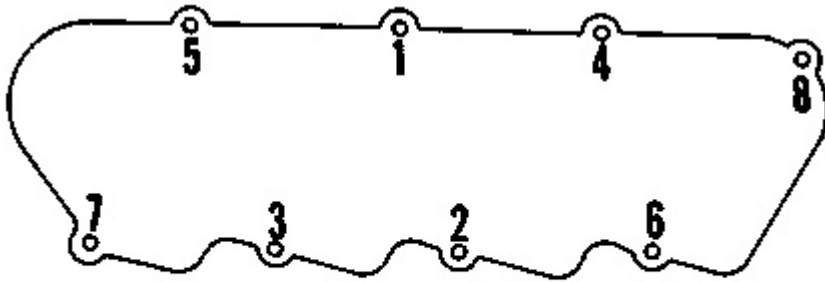
4. Disconnect nuts (7) from the fuel line adapter assemblies.
5. Remove fuel line adapter (9). Remove bolts (10) and valve cover base (8).

## Install Valve Cover (Later)

1. Inspect gaskets and seals. Make a replacement if needed.

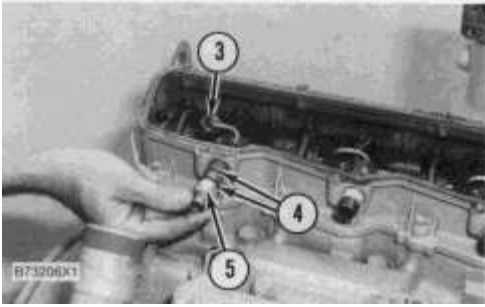


2. Install gasket (2) and valve cover base (1) on the cylinder head.

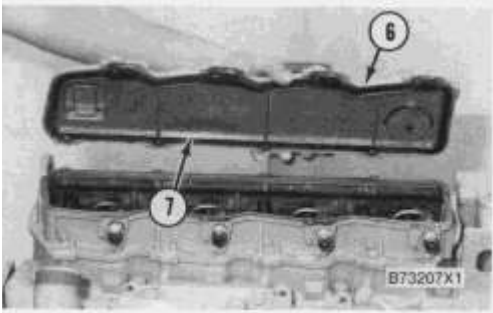


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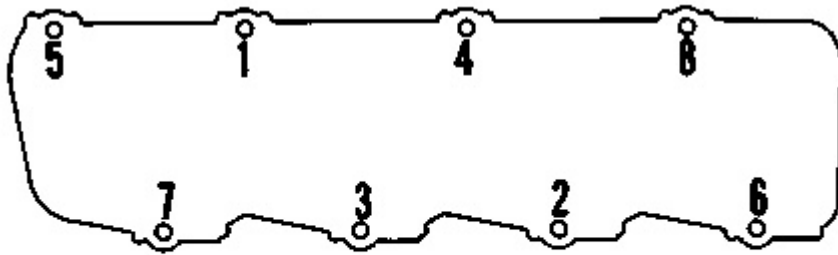
3. Tighten the bolts in the valve cover base in number sequence to a torque of  $14 \pm 3$  N·m ( $10 \pm 2$  lb.ft.).



4. Put engine oil in the base adapter bores and on the seals (4). Install adapters (5). Connect fuel injection line nuts (3). Tighten fuel line nuts to a torque of  $41 \pm 7 \text{ N}\cdot\text{m}$  ( $30 \pm 5 \text{ lb}\cdot\text{ft}$ ).

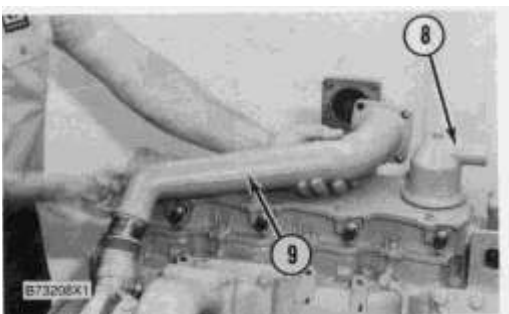


5. Install gasket (7) and valve cover (6).



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6. Tighten the bolts in the valve cover in number sequence to a torque of  $14 \pm 3 \text{ N}\cdot\text{m}$  ( $10 \pm 2 \text{ lb}\cdot\text{ft}$ ).



7. Install breather (8), and tighten bolt to a torque of  $14 \pm 3 \text{ N}\cdot\text{m}$  ( $10 \pm 2 \text{ lb}\cdot\text{ft}$ ).

8. Install pipe assembly (9).

END BY:

**a.** install fuel injection lines

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## Disassembly and Assembly

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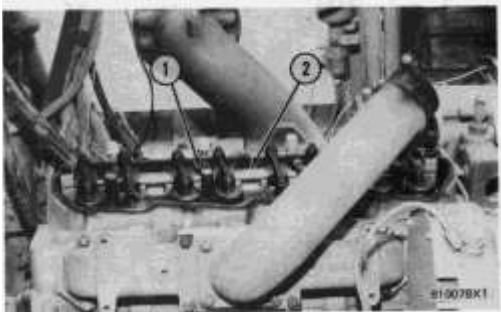
## Rocker Shaft Assembly And Push Rods

SMCS - 1102; 1208-012; 1208-011

### Remove Rocker Shaft Assembly And Push Rods

START BY:

- a. remove valve cover (earlier or later)



1. Remove bolts (1) from rocker shaft assembly (2), and remove the rocker shaft assembly from the head.



2. Remove push rods (3).

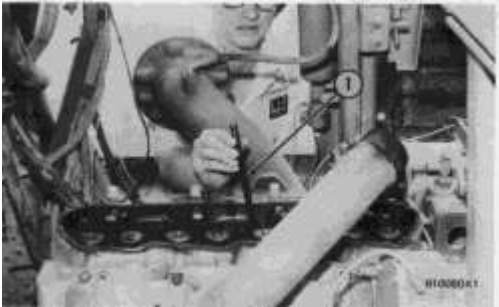
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### NOTICE

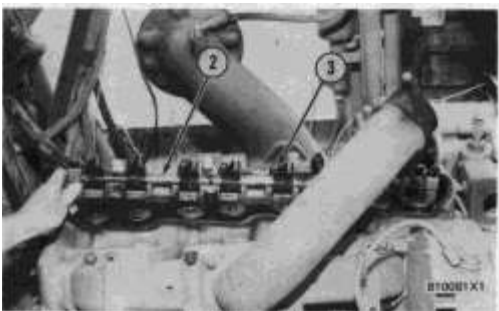
**Put identification marks on the push rods as to their location in the engine.**

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## Install Rocker Shaft Assembly And Push Rods



1. Install push rods (1) in their original location in the engine. New push rods can be mixed.



2. Put rocker shaft assembly (2) in position on the head. Install the bolts that hold the rocker shaft assembly in position.

3. Make an adjustment until the intake valve clearance is 0.38 mm (.015 in.) and the exhaust valve clearance is 0.64 mm (.025 in.). Tighten nuts (3) to a torque of  $32.5 \pm 6.8 \text{ N}\cdot\text{m}$  ( $24 \pm 5 \text{ lb}\cdot\text{ft}$ ).

END BY:

a. install valve cover (earlier or later)

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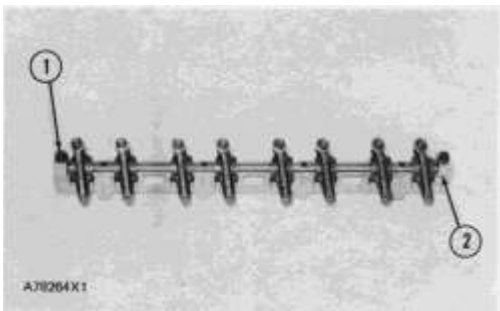
### Rocker Shaft Assembly

SMCS - 1102-015; 1102-016

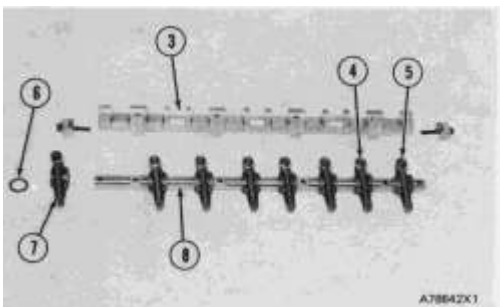
### Disassemble Rocker Shaft Assembly

START BY:

- a. remove rocker shaft assembly and push rods



1. Remove bolts (1) and washers (2) from the bracket.



2. Remove shaft (8) from bracket (3).
3. Remove washers (6) and rocker arm assemblies (7) from shaft (8).
4. Remove adjustment screws (4) and nuts (5) from the rocker arm assemblies.
5. Inspect the ball end of the adjusting screw and valve contact surface of the rocker arm for wear, and make a replacement if needed.

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