



Service Repair Manual

Models

651E WHEEL SCRAPER

Product: WHEEL TRACTOR

Model: 651E WHEEL TRACTOR 89Z

Configuration: 651E Wheel Tractor-Scraper 89Z00001-UP (MACHINE) POWERED BY 3412 Engine

Disassembly and Assembly

3412 VEHICULAR ENGINE FOR 651E-657E TRACTORS

Media Number -SEN2644-00

Publication Date -01/02/1984

Date Updated -11/10/2001

Fuel Injection Pump Housing

SMCS - 1253-15; 1253-16

Disassemble Fuel Injection Pump Housing

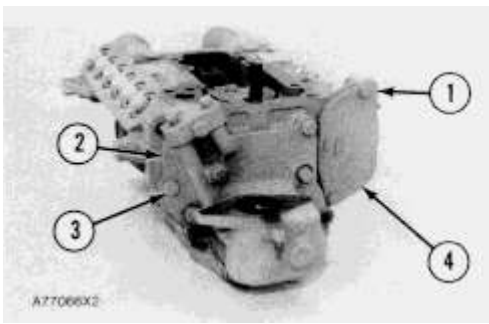
Tools Needed		A	B	C	D	E
8S4613	Wrench	1				
8S2244	Extractor		1			
5P944	Dowel Puller Group			1		
5P9697	Timing Pin				1	
8S2241	Camshaft Bearing Removal And Installation Tool Group					1

START BY:

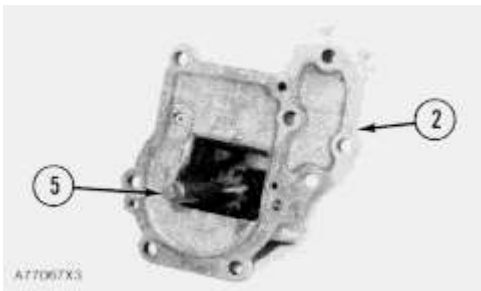
- a. remove fuel injection pump housing and governor
- b. remove governor
- c. remove fuel transfer pump

NOTICE

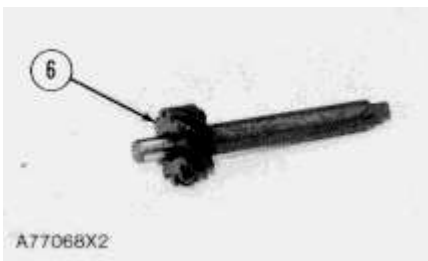
Be careful not to damage the inlet and outlet ports on the bottom of the pump housing. The pump housing must be put on blocks before disassembly.



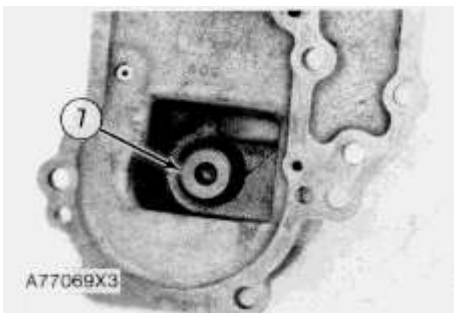
1. Remove bolts (1) and (3), cover (4) and housing (2) from the fuel injection pump housing.



2. Remove shaft assembly (5) from housing (2).

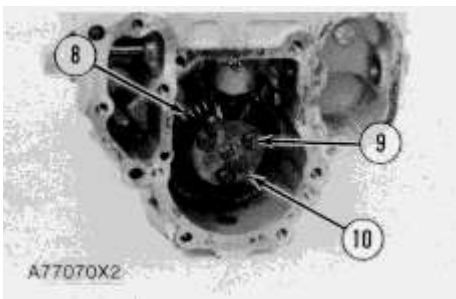


3. If necessary, remove gear (6) from the shaft assembly.



NOTE: Bearing (7) will be damaged when removed.

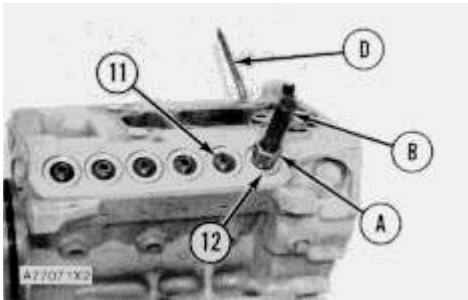
4. Remove bearing (7) from the housing.



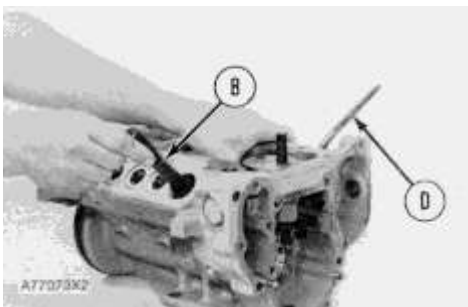
5. Remove bolts (9), retainer (10) and camshaft gear (8) from the camshaft.

NOTICE

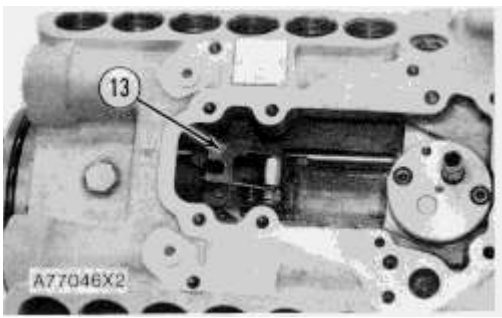
The camshaft is now free to slide out of the fuel injection pump housing. Use care when the pump housing is moved.



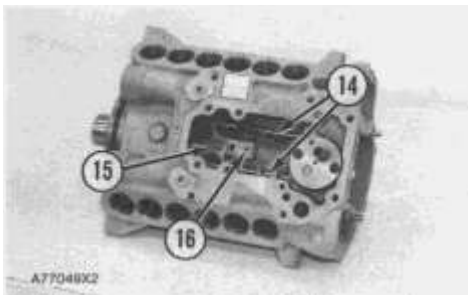
6. Make sure tool (D) is in position in the fuel injection pump housing and the racks are in the center (zero) position.
7. Remove felt washers (11) from the fuel pumps.
8. Use tooling (A) and (B) to remove bushings (12) from the fuel injection pump housing. Put a small amount of downward pressure on tool (B) to make removal of bushings (12) easier.



9. Put identification marks on each fuel pump as to its location in the pump housing for assembly purposes.
10. Hold the fuel racks against tool (D) in the center (zero) position and carefully remove each fuel pump with tool (B).

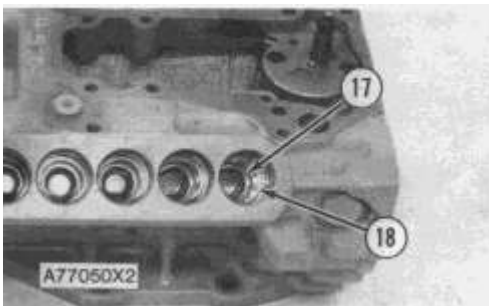


11. Remove the bolt and bracket assembly (13) from the fuel injection pump housing.

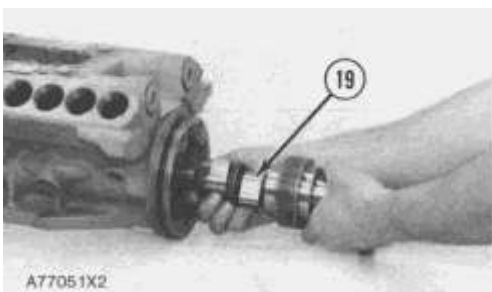


12. Put identification marks on fuel racks (14) for assembly purposes. Remove link (15) and fuel racks (14) from the fuel injection pump housing.

13. If necessary, remove pin (16) from the fuel injection pump housing.



14. Remove spacers (18) and lifters (17) from the fuel injection pump housing. Put identification marks on each of the spacers and lifters as to their location in the pump housing for assembly purposes.



15. Carefully remove camshaft (19) from the fuel injection pump housing.

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