

Product: EXCAVATOR

Model: E180 EXCAVATOR 1RF

Configuration: E180 EL180 HYDRAULIC EXCAVATORS 1RF00001-UP (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

### Governor

SMCS - 1264-015; 1264-016

### Disassemble Governor

Tools Needed		A	B	C	D
FT1251	Pump Housing Stand	1			
6V120	Plate*	1			
1P510	Driver Group		1		
1P1855	Retaining Ring Pliers			1	
6V2163	Compressor Clamp**				1

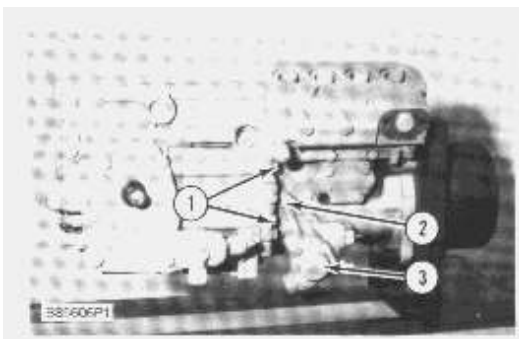
\*Part of 6V2009 Adapter Group.

\*\*Part of 6V4095 Pump And Governor Reconditioning Tool Group.

START BY:

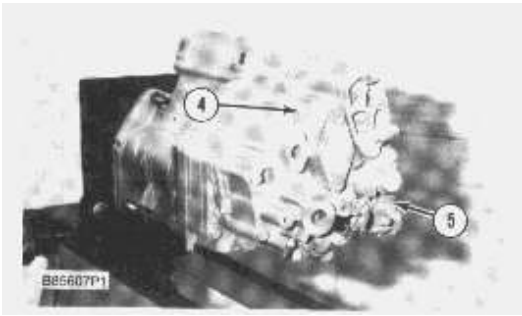
a. remove fuel injection pump housing and governor

**NOTE:** If it is desired to remove only the governor so the fuel injection pump housing can be disassembled, only do steps. 1, 2, 16, 23, 27, 28, 29, 33, 34, 35, 36 and 39.

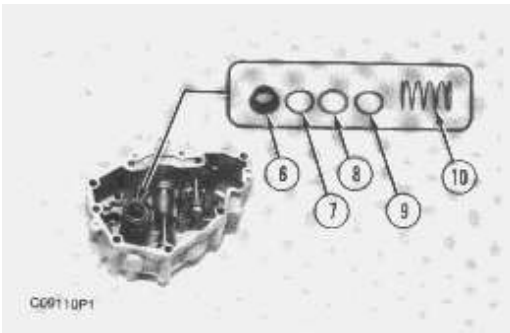


1. Remove two bolts (2) and fuel transfer pump (3).

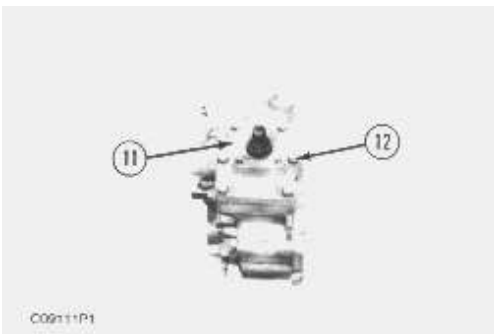
2. Remove two bolts (1) from the fuel system.



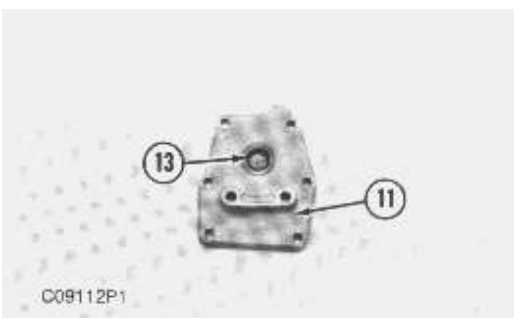
3. Remove six bolts (4), governor housing (5) and the gasket.



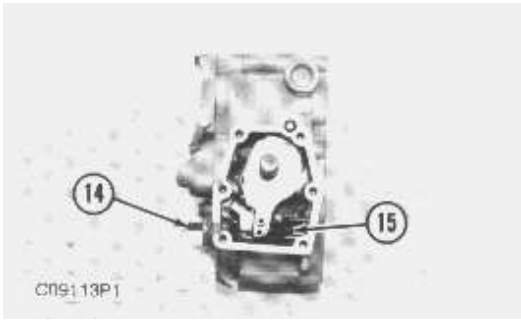
4. Remove governor spring (10), two wave washers (7) and (9), one flatwasher (8) and seat (6) from the guide.



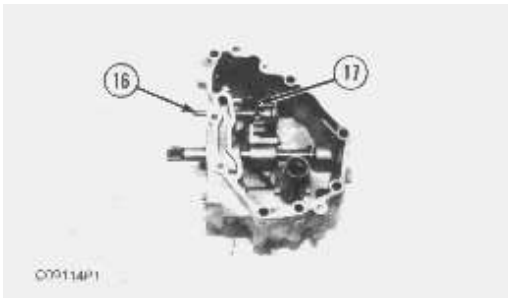
5. Remove bolts (12) and cover assembly (11) from the housing.



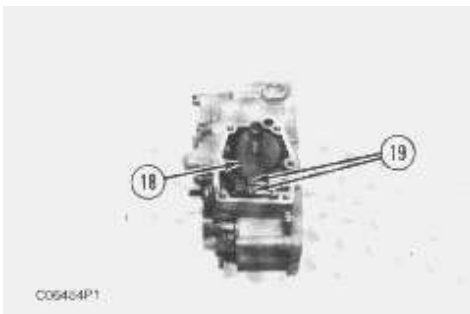
6. Remove seal (13) from cover (11) with tooling (B).



7. Loosen low idle adjustment screw (14), and remove spring (15) from the housing.

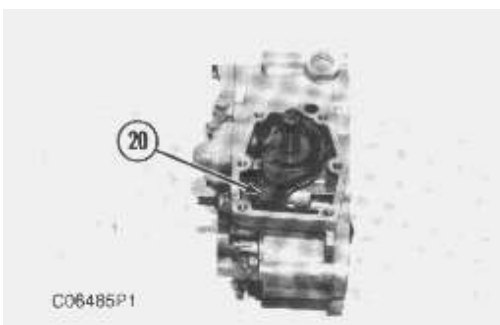


8. Remove shaft (16) and lever (17) from the housing. Remove the ring from the shaft if necessary.

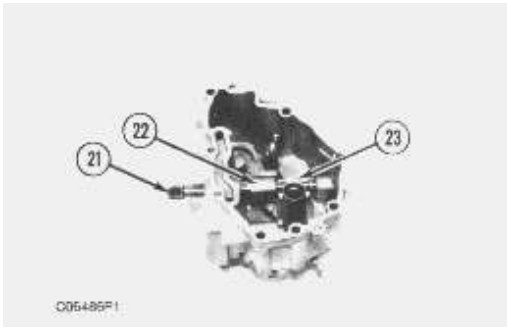


9. On later engines, remove the control shaft assembly from the housing as follows:

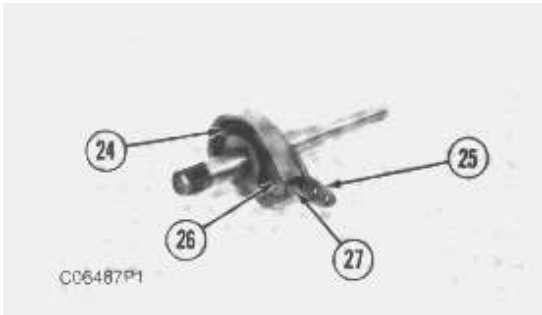
a. Remove two screws (19), plate (18) and the washer located under plate (18).



b. Remove stop (20) and the plate located under the stop.

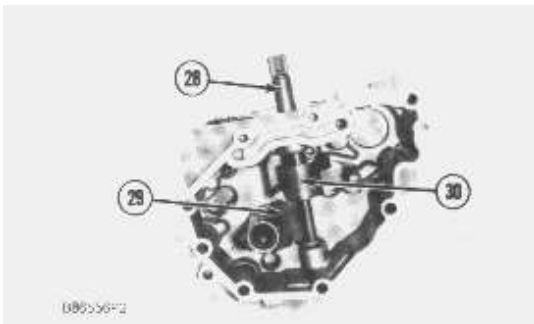


c. Remove shaft assembly (21), lever (22) and lever (23) from the housing.

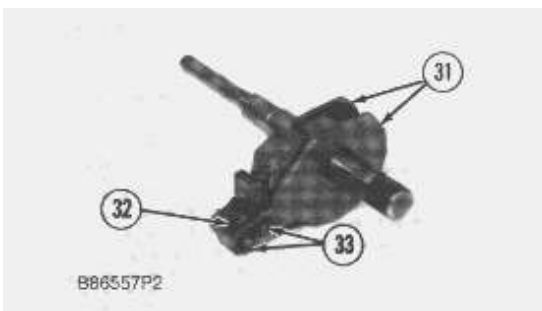


d. Remove plate (25) from the shaft assembly.

e. Remove pin (26), pin (27) and spring (24) from the shaft assembly.

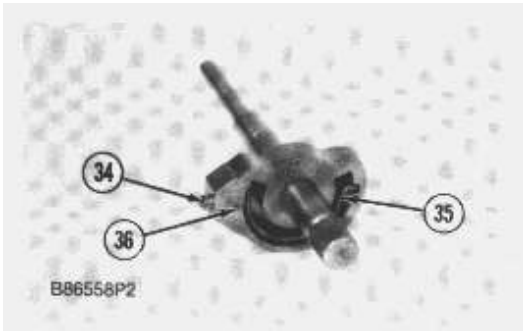


10. On earlier engines, remove shaft assembly (28), lever (29) and lever (30) from the housing.

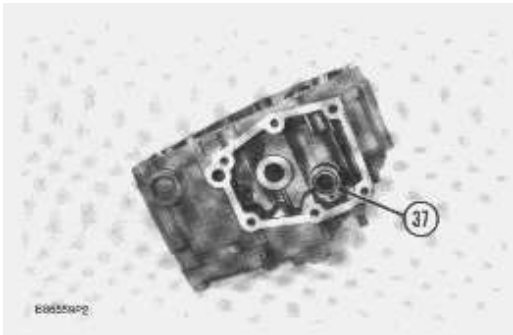


11. On earlier engines, disassemble the control shaft assembly as follows:

a. Remove the two snap rings from pins (33), and remove the pins. Remove plates (31) and stop (32) from the shaft assembly.



b. Remove pin (36), pin (34) and spring (35) from the shaft assembly.



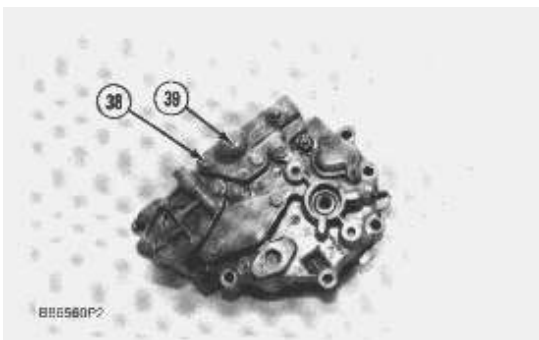
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### NOTICE

**Remove check valve (37) only if a replacement is necessary because the check valve will be damaged during removal.**

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12. Remove check valve (37) if a replacement is necessary.



13. Remove two bolts (38), cover (39) and the gasket from the housing.

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