



# Service Repair Manual

## **Models**

# 621F WHEEL SCRAPER

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Product: WHEEL SCRAPER

Model: 621F WHEEL SCRAPER 9NL

Configuration: 621F Wheel Tractor-Scraper 9NL00001-UP (MACHINE) POWERED BY 3406C Engine

## Disassembly and Assembly 3406C DIESEL ENGINES FOR CATERPILLAR BUILT MACHINES

Media Number -SEN6409-02

Publication Date -01/07/2006

Date Updated -19/05/2015

SEN64090008

### Governor

SMCS - 1264-016; 1264-015

### Disassemble Governor

Tools Needed		A	B	C
FT-1251	Pump Housing Stand	1		
1P-1855	Retaining Ring Pliers		1	
6V-2163	Compressor Clamp*			1

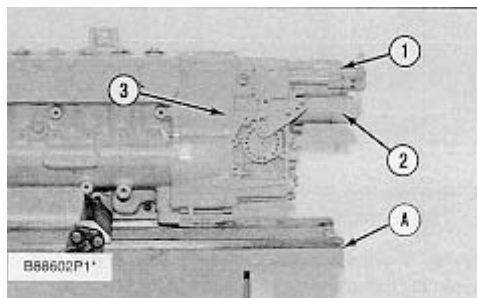
\*Part of 6V4095 Pump and Governor Reconditioning Tool Group.

IN

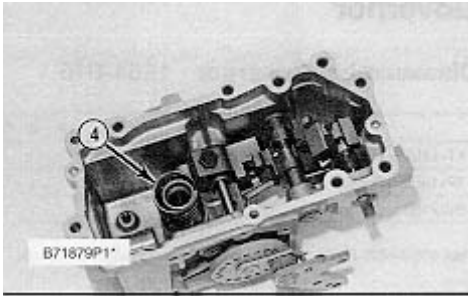
Start By:

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

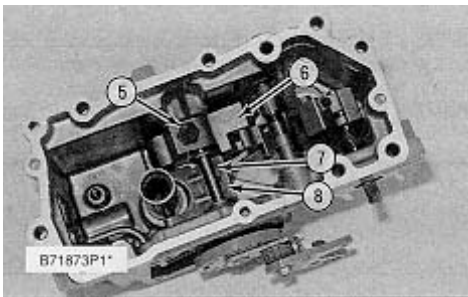
**NOTE:** If it is desired to only remove the governor so the fuel injection pump housing can be disassembled, do only steps 1, 2, 3, 16, 22, 25, 26, 27, 28, 32, 34 and 37.



1. Put the fuel injection pump housing and governor in position on Tool (A).
2. Remove the bolts, fuel ratio control (1) and shutoff solenoid (2) from rear governor housing (3).
3. Remove the bolts, rear governor housing (3) and the gasket from the front governor housing.



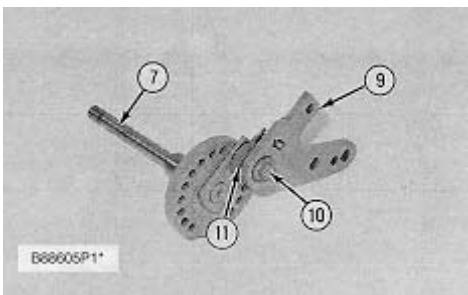
4. Remove governor spring (4), the two wave washers, one flat washer and the seat from the guide in the rear governor housing.



5. Remove bolt (5) that holds lever assembly (6) to the shaft assembly.

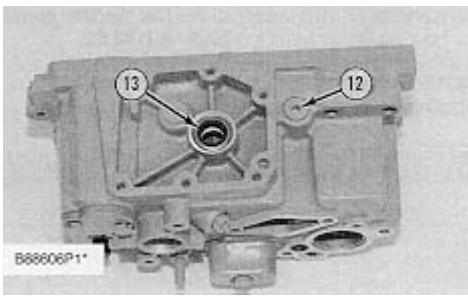
**NOTE:** There is a key in the slot groove of the shaft assembly that must be removed before the shaft assembly is removed from the rear governor housing.

6. Remove shaft assembly (7), lever (6) and lever (8) from the rear governor housing.

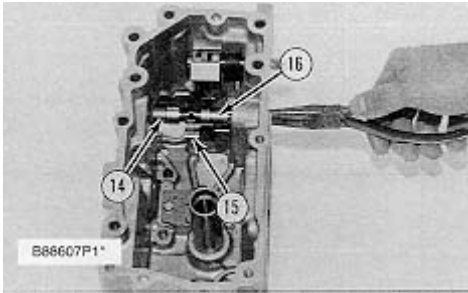


**NOTE:** Put an alignment mark on lever (9) for correct assembly purposes.

7. Remove bolt (10), lever assembly (9) and spring (11) from shaft assembly (7).

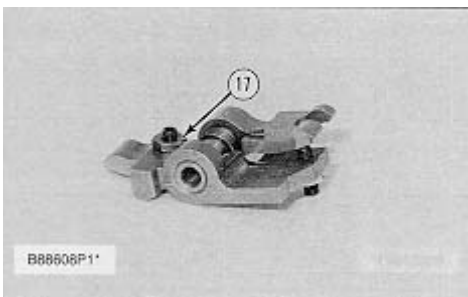


**8.** Remove plug (12) and lip-type seal (13) from the housing.

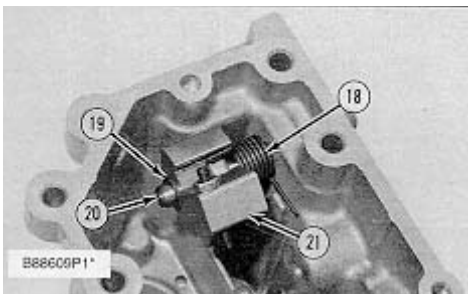


**NOTE:** Spacers (14) and (16) are different sizes. Make sure they are assembled in the correct position.

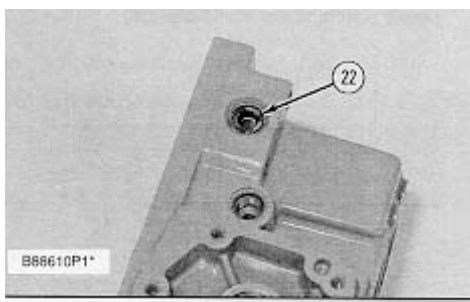
**9.** Use needle nose pliers, and remove the shaft. Remove spacer (14), lever (15) and spacer (16) from the governor housing.



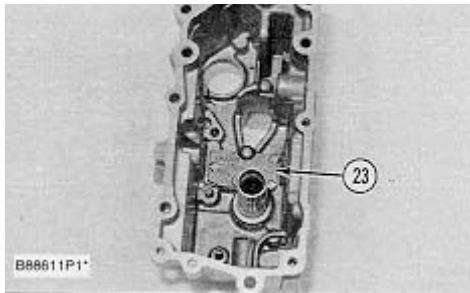
**10.** Remove two setscrews and locknuts (17) if necessary.



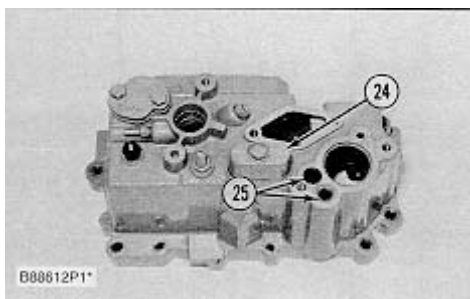
**11.** Release spring (18) from the notch in the housing. Remove snap ring (19), and remove shaft (20) from the housing. Remove lever (21) and spring (18).



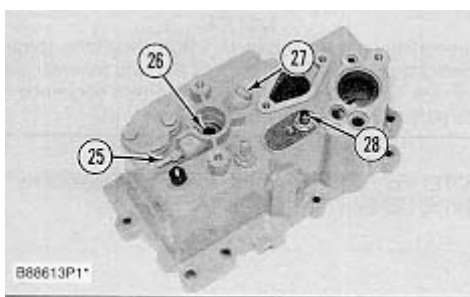
**12.** Remove liptype seal (22) from the housing.



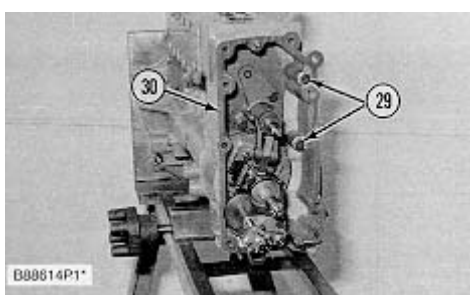
**13.** If necessary, remove the screws, cover (23) and the gasket from the governor housing.



**14.** Remove high idle cover (24) and three O-ring seals (25).



**15.** Remove liptype seal (26), dashpot valve (27), fitting (25), insulator and high idle adjustment (28) from the rear housing.



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