

Product: WHEEL SCRAPER

Model: 623E WHEEL SCRAPER 5SG

Configuration: 623F Wheel Tractor-Scraper 5SG00480-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 - 1264-015; 1264-016

### Disassemble Governor

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

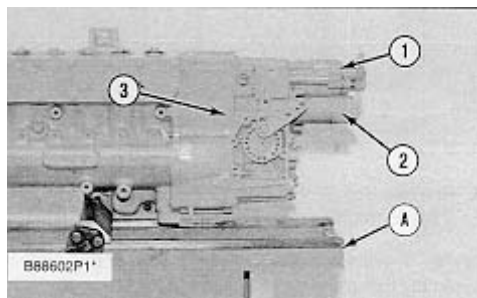
\*Part of 6V4095 Pump and Governor Reconditioning Tool Group.

IN

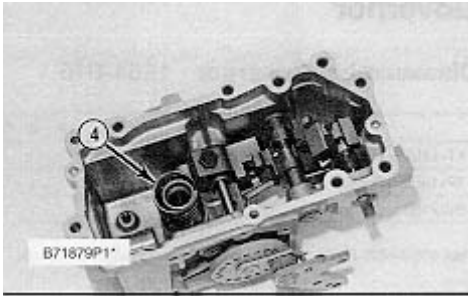
Start By:

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

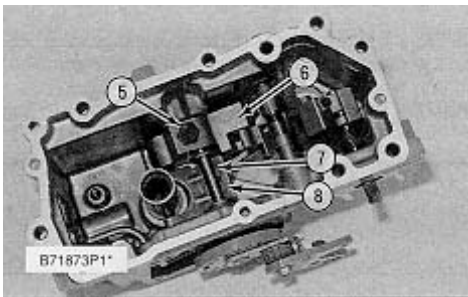
**NOTE:** If it is desired to only remove the governor so the fuel injection pump housing can be disassembled, do only steps 1, 2, 3, 16, 22, 25, 26, 27, 28, 32, 34 and 37.



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.



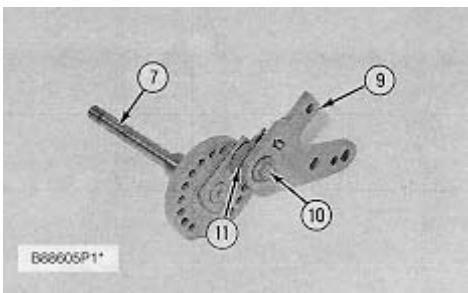
4. Remove governor spring (4), the two wave washers, one flat washer and the seat from the guide in the rear governor housing.



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

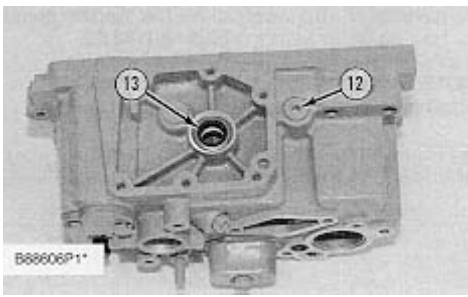
**NOTE:** There is a key in the slot groove of the shaft assembly that must be removed before the shaft assembly is removed from the rear governor housing.

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

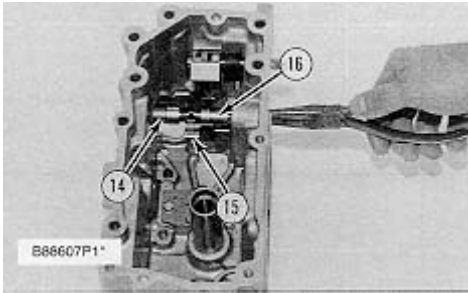


**NOTE:** Put an alignment mark on lever (9) for correct assembly purposes.

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

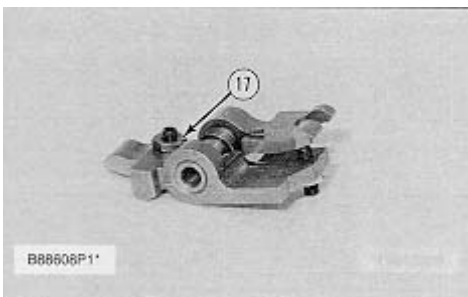


**8.** Remove plug (12) and lip-type seal (13) from the housing.

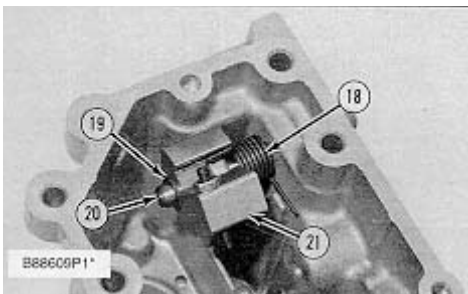


**NOTE:** Spacers (14) and (16) are different sizes. Make sure they are assembled in the correct position.

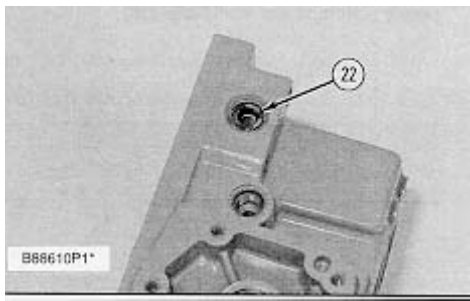
**9.** Use needle nose pliers, and remove the shaft. Remove spacer (14), lever (15) and spacer (16) from the governor housing.



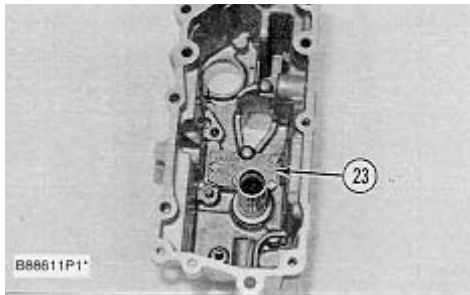
**10.** Remove two setscrews and locknuts (17) if necessary.



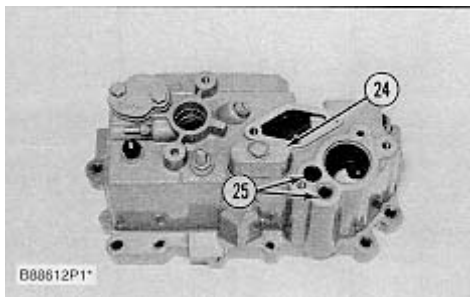
**11.** Release spring (18) from the notch in the housing. Remove snap ring (19), and remove shaft (20) from the housing. Remove lever (21) and spring (18).



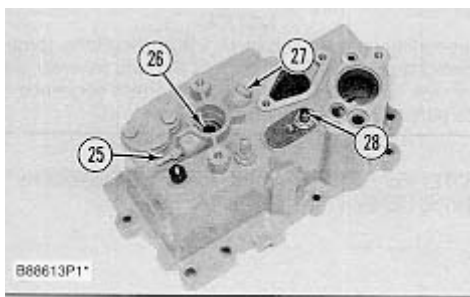
**12.** Remove liptype seal (22) from the housing.



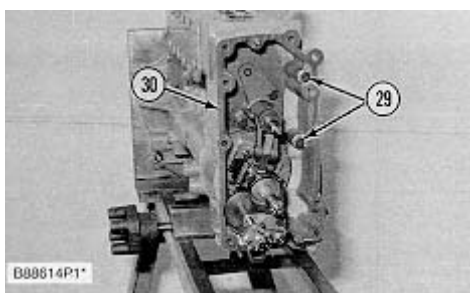
**13.** If necessary, remove the screws, cover (23) and the gasket from the governor housing.



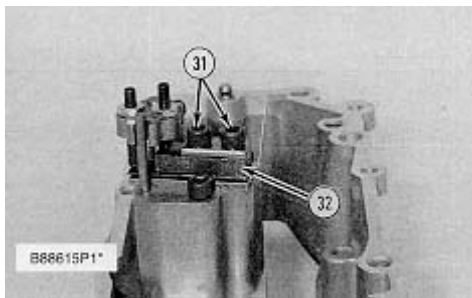
**14.** Remove high idle cover (24) and three O-ring seals (25).



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



16. Remove two bolts (29), housing (30) and the gasket from the fuel pump housing.



17. Remove bolts (31), and remove torque control group (32) from the block.

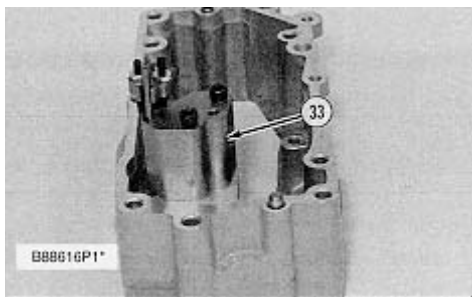
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### NOTICE

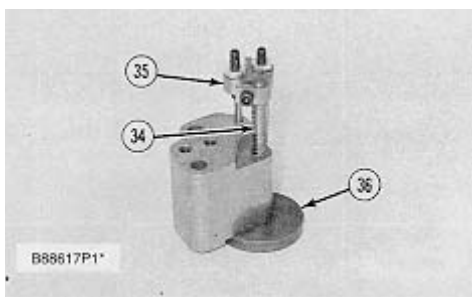
**Depending on the different engine applications, torque control groups will vary. Inspect all parts for wear and damage, and make a note of the correct sequence of the parts for assembly purposes.**

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**NOTE:** For additional information, see Specifications Manual SENR6470.



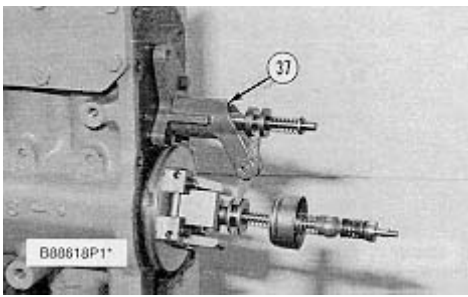
18. Remove the bolts and block (33) for the full load stop from the housing.



19. Remove the bolt that holds collar (35) to bolt (36).

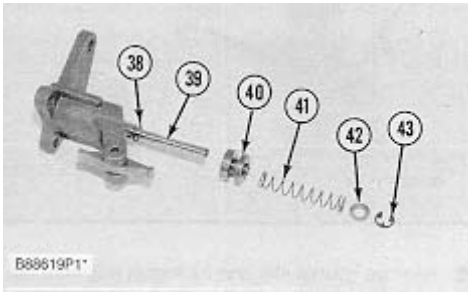
20. Remove collar (35) and spring (34) from bolt (36). Remove bolt (36) from the block.

21. If necessary, remove the stop screw and the power setting screw from collar (35).

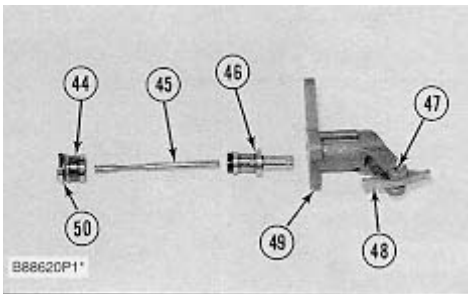


**NOTE:** It may be necessary to turn the piston to remove the servo from the rack.

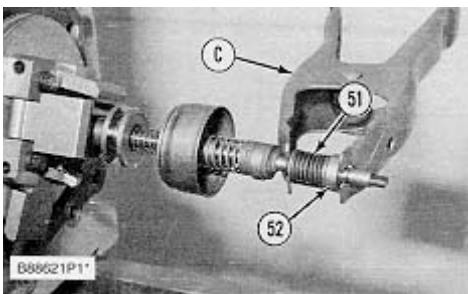
**22.** Remove the three bolts and governor servo (37) from the fuel injection pump housing.



**23.** Remove locking (43), seat (42), spring (41) and sleeve (40) from valve (39). Remove locking (38) from the groove in the center of valve (39).



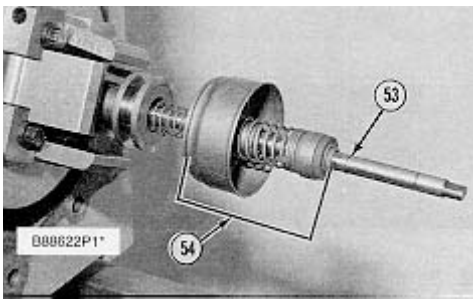
**24.** Remove sleeve (44), valve (45) and piston (46) from the governor servo. Remove O-ring seal (50) from sleeve (44). Do not remove pin (47). If pin (47) and lever (48) or cylinder (49) are worn or damaged replace the assembly.



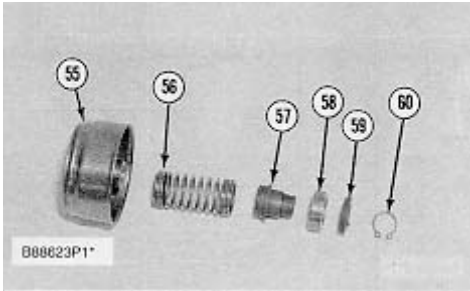
**25.** Use Tool (C) to hold spring (51) under compression so the ring on the governor shaft can be removed.

**26.** Remove the ring, and carefully remove Tool (C).

**27.** Remove bearing (52), the sleeve and spring (51) from the governor shaft.



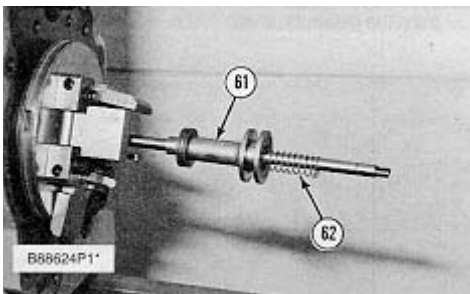
**28.** Remove ring (53) and dashpot assembly (54) from the governor shaft.



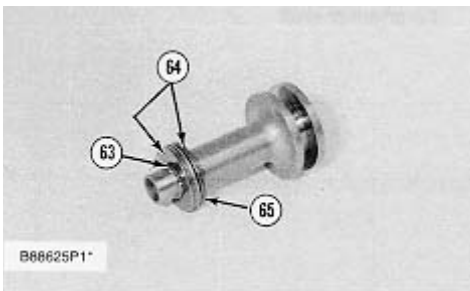
**29.** Use Tool (B), and remove ring (60) from seat (57).

**30.** Remove ring (59) and spool (58) from seat (57).

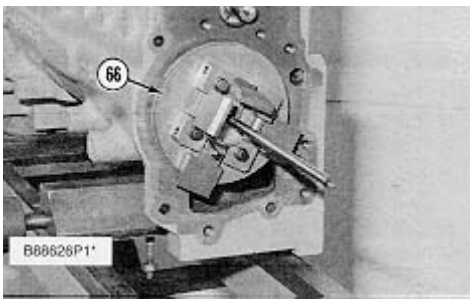
**31.** Remove seat (57), and spring (56) from shield (55).



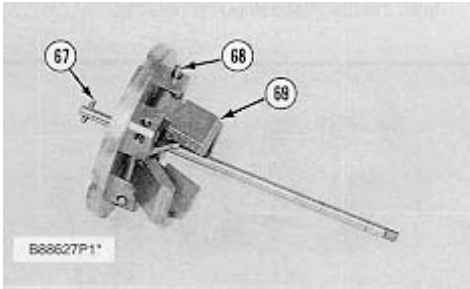
**32.** Remove spring (62), if equipped, and riser (61) from the governor shaft.



**33.** Remove ring (63), races (64) and bearing (65) from the riser.

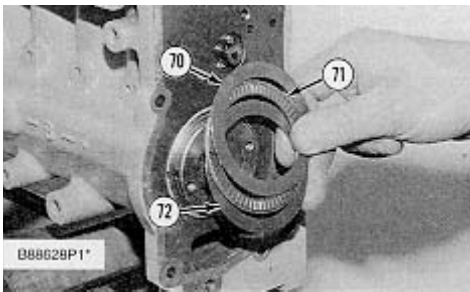


**34.** Remove the bolts and carrier assembly (66) from the fuel injection pump housing.



**35.** Remove dowels (68) and flyweights (69) from the carrier assembly.

**36.** Remove dowel (67) from the governor shaft, and remove the governor shaft from the carrier assembly.



**37.** Remove races (70) and (72) and bearing (71) from the camshaft in the fuel injection pump housing.



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