

Product: MOTOR GRADER
Model: 120 MOTOR GRADER 10R
Configuration: 120 MOTOR GRADER 10R02882-UP (MACHINE)

Disassembly and Assembly SLEEVE METERING FUEL SYSTEM FOR FOUR AND SIX CYLINDER 4.75"

Media Number -REG01400-01

Publication Date -01/03/1974

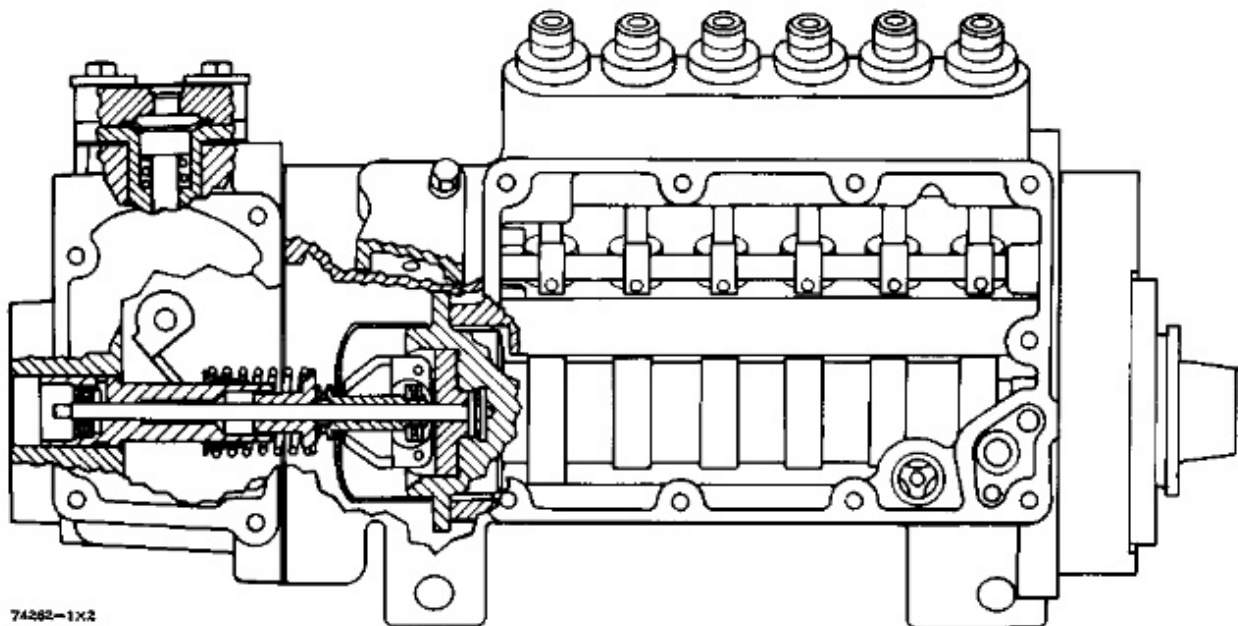
Date Updated -17/03/2010

REG01400005

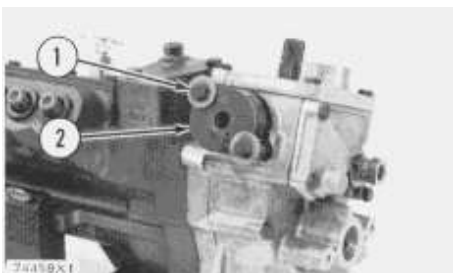
Speed Limiter

SMCS - 1268-11; 1268-12

Sleeve Metering Fuel System With Speed Limiter (Earlier Fuel Systems)

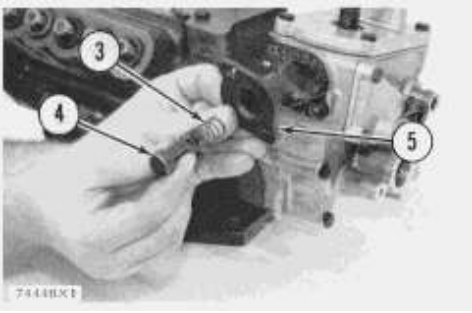


Remove Speed Limiter (Earlier Fuel Systems)



1. Remove the bolts (1) and washers that hold the cover (2) to governor housing. Remove the cover (2).

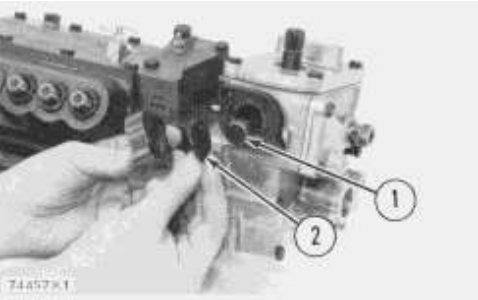
2. Remove the diaphragm from governor housing.



3. Remove the plunger (4) and spring (3) from governor housing.

4. Remove the body (5) from the governor housing.

Install Speed Limiter (Earlier Fuel Systems)



1. Install the body, spring, and plunger (1).

2. Install the diaphragm (2) and cover.



3. Install the bolts (3) and washers.

4. See ADJUSTMENT of SPEED LIMITER in TESTING AND ADJUSTING.

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REG01400006

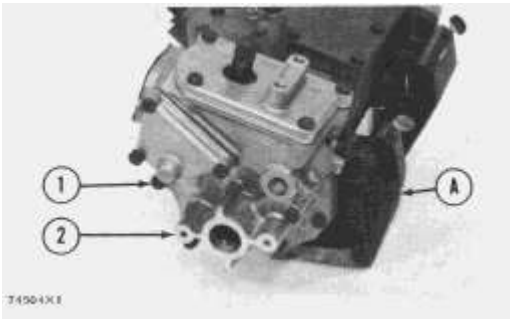
Fuel Injection Pump Housing And Governor

SMCS - 1268-11; 1268-12

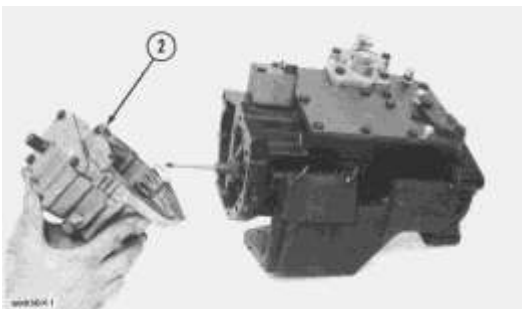
Separation Of Governor From Fuel Injection Pump Housing

Tools Needed		A	B
2P8315	Bracket Assembly	1	
5P302	Bar		1

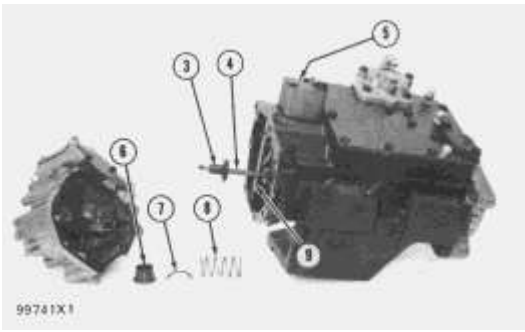
1. Put the fuel injection pump housing on tool (A).



2. Remove bolts (1) that hold the governor housing (2) to the fuel injection pump housing.



3. Remove governor housing (2) from pump housing.

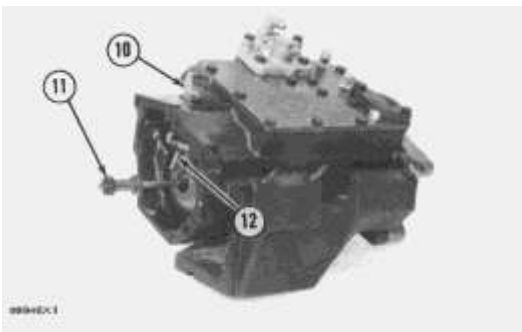


4. Remove cover (5) over the torque spring.

5. Remove spring (8), (wave) washer (7) and guide (6) from governor housing.

6. Remove seat (3) and over fueling spring (4).

7. Pull shaft (9) up and remove shaft and lever from the housing.

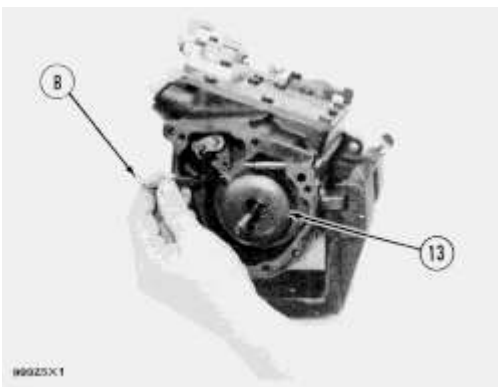


8. Remove torque spring assembly (10) and pin.

NOTE: Some fuel systems do not have a torque spring. They have only a stop.

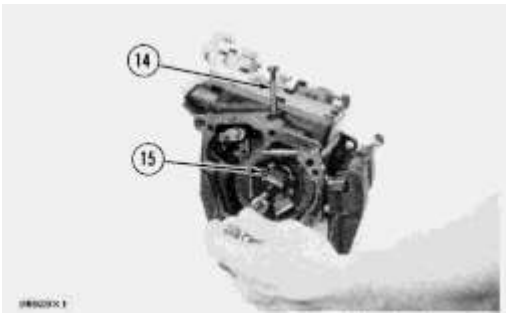
9. Remove riser (follower) (11) from the shaft.

10. Remove ring and lever (12) from the dowel.

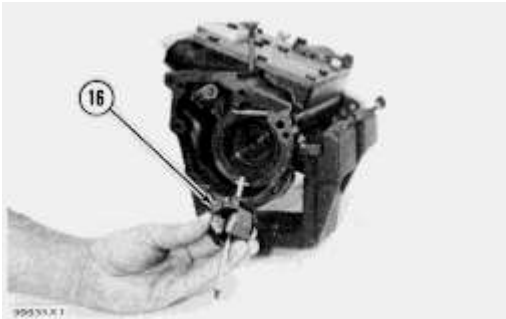


11. Remove cover (13) for the flyweights with tool (B).

NOTE: Tool (B) can cause damage to the cover. Always inspect cover and install a new cover if needed.



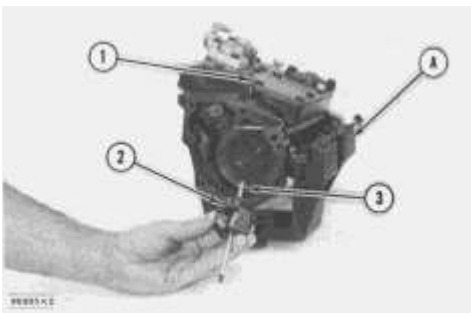
12. Install timing pin (14) to hold the camshaft from turning.
13. Remove bolts (15) that hold flyweight assembly to camshaft.



14. Remove the flyweight assembly (16) from the fuel injection pump housing.
15. Remove the timing pin from the housing.

Connection Of Governor To Fuel Injection Pump Housing

Tools Needed		A	B
2P8315	Bracket Assembly	1	
5P301	Driver		1



1. Put the fuel injection pump housing on tool (A).
 2. Install timing pin (1) to keep the camshaft from turning.
 3. Put flyweight assembly (2) in position on the camshaft.
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NOTICE

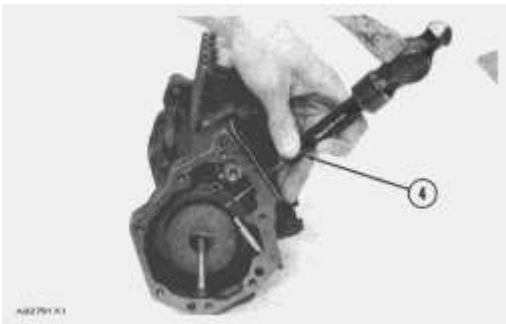
Be sure pin (3) that holds shaft is in the correct position on back of the flyweight assembly.

4. Install new bolts for the flyweight assembly.

NOTE: The bolts for the flyweight assembly have a locking material on the threads and must not be used more than one time.



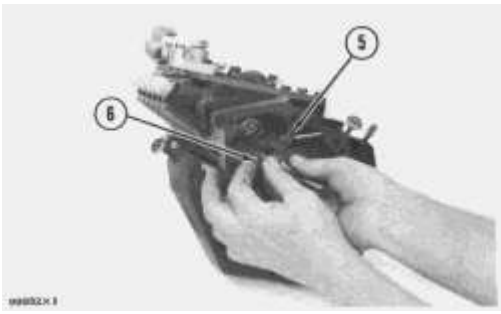
5. Install cover over the flyweight assembly with tool (B).



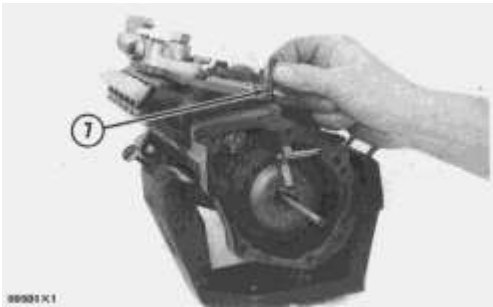
6. Grind a taper on the bottom edge of a 1/8" screwdriver (4). Install the screwdriver through the bolt hole in the governor housing. The screwdriver must fit evenly against the flyweight assembly cover. Make a mark (stake) in four places around the cover in line with the groove in the camshaft.

NOTICE

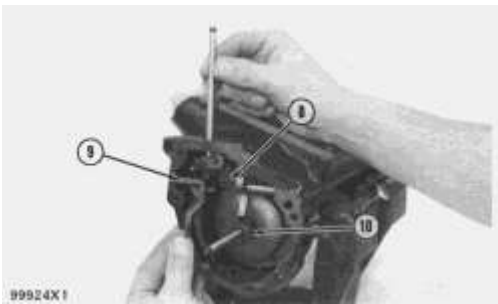
Never install a used flyweight cover that is bent.



7. Install lever (5) on the dowel. Install ring (6) that holds lever on dowel.



8. Install pin (7) in the housing with the round end down.



9. Put riser (follower) (10) in position between the flyweights. Lift the flyweight up with a piece of wire and push riser (follower) forward.

10. Put lever (9) into position in groove of riser (follower) (10) and ball end engaged in the sleeve shaft lever (8). Install shaft to hold lever in place.

NOTICE

If lever (9) is not installed correctly, the governor cannot operate and can cause the engine to over speed.

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