

Product: WHEEL DOZER

Model: 814 WHEEL DOZER 14R

Configuration: 814 TRACTOR 14R00279-UP (MACHINE) POWERED BY 3306 ENGINE

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

REG014000004

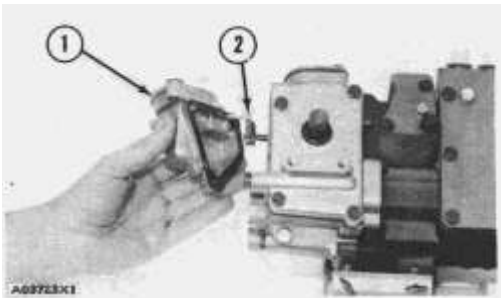
Adapter Housings And Levers

SMCS - 1278-11; 1278-12; 1278-15; 1278-16

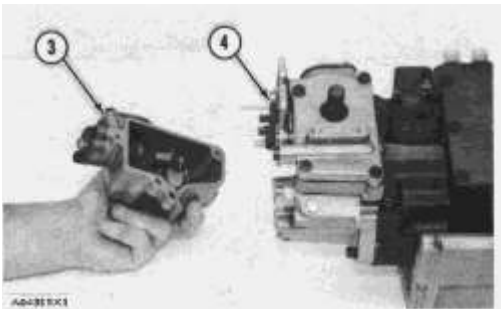
Remove Adapter Housings And Levers (If So Equipped)

start by:

- a) remove fuel ratio control
- b) remove fuel shutoff solenoid



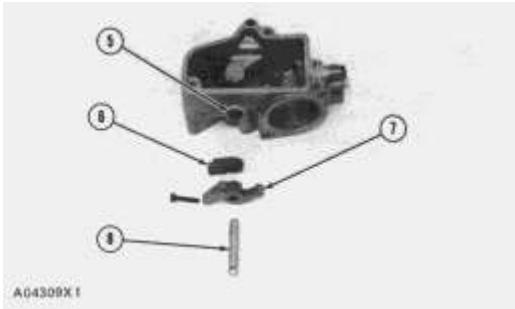
1. Remove adapter housing (1) from governor housing.



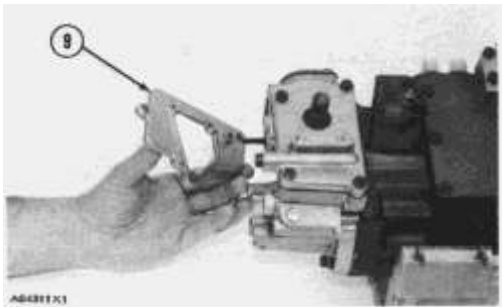
NOTE: There are two different adapter housings used with the fuel system. Adapter housing (1) is used when only a fuel ratio control is needed. Adapter housing (3) is used when a combination of fuel ratio control, fuel shutoff solenoid and oil pressure safety shutoff is needed.

2. Remove control lever (2) or (4) from shaft.

NOTE: There is a different control lever for each adapter housing. On a truck fuel system, there is a spring between the lever and governor housing.

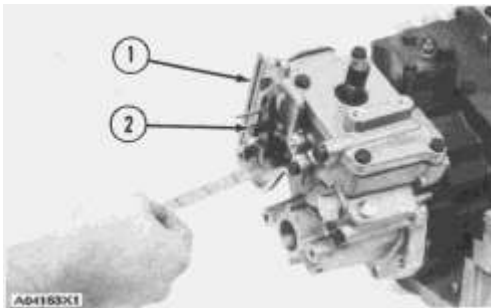


3. Remove shaft (8), lever assembly (7) and lever (6) from adapter housing.
4. Remove seal (5) from adapter housing.

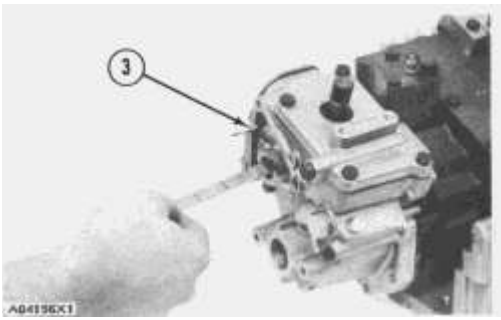


5. Remove base (9) from governor housing.

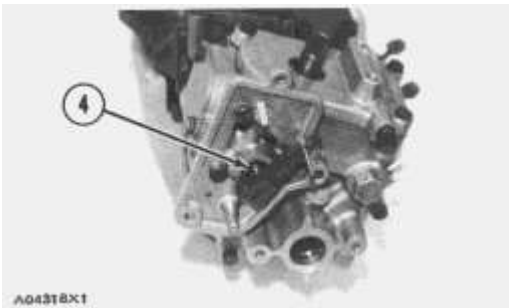
Install Adapter Housings And Levers (If So Equipped)



1. Install base (1) on governor housing.
2. Install control lever (2) on shaft which is for adapter housing (5).
3. Check the distance between the governor housing and inside of lever (2). This distance must be $.438 \pm .010$ in. (11.13 ± 0.25 mm) with the shaft pulled out tight against the governor housing.

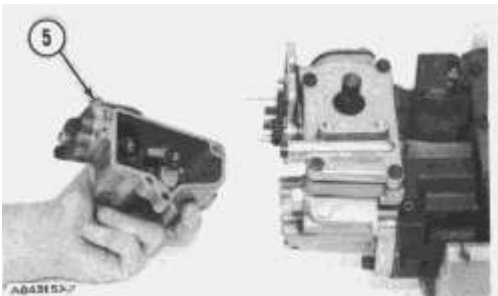


4. Install control lever (3) which is for the adapter housing that has fuel ratio control only.
5. Check the distance between the inside of lever (3) and governor housing. This distance must be $.590 \pm .010$ in. (14.99 ± 0.25 mm) with the shaft pulled out tight against the inside of the governor housing.



NOTE: On a truck fuel system, there is a spring (4) between the lever and governor housing. This spring must be turned (wound) 1 1/4 turns clockwise to get a preload when installed.

6. Install seal in adapter housing.
7. Install lever, lever assembly and shaft.



8. Install adapter housing (5) on base.

end by:

- a) install fuel shutoff solenoid
 - b) install fuel ratio control
-

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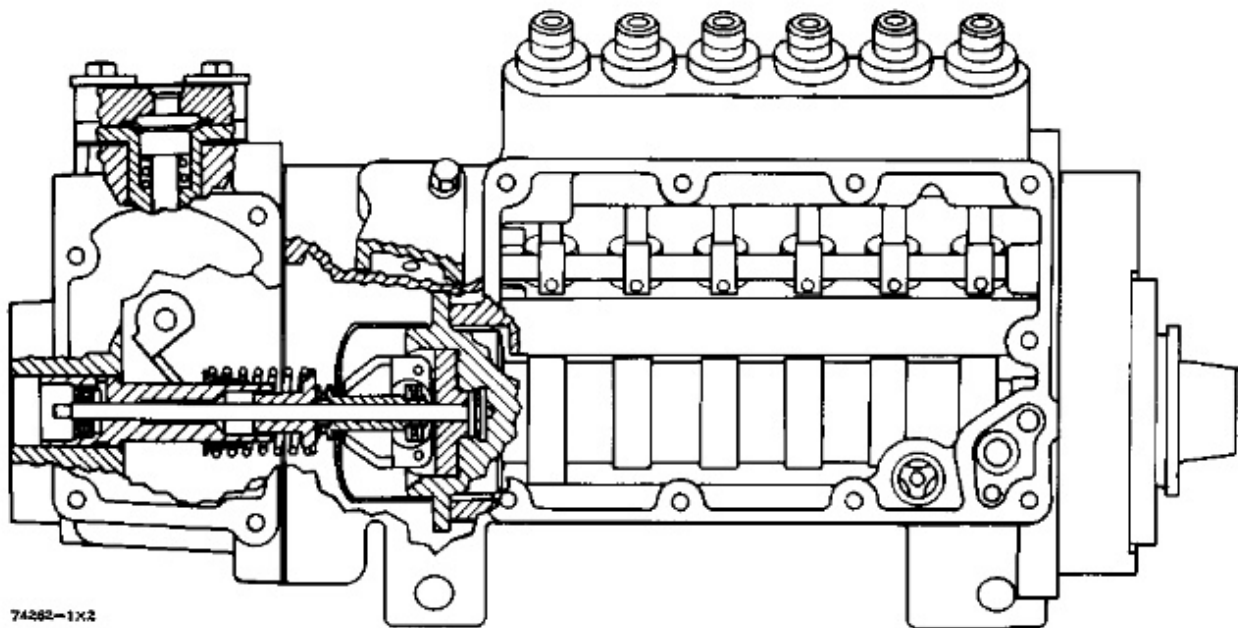
Date Updated -17/03/2010

REG01400005

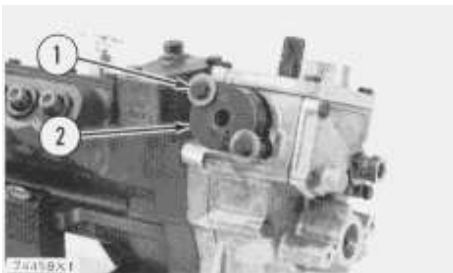
Speed Limiter

SMCS - 1268-11; 1268-12

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

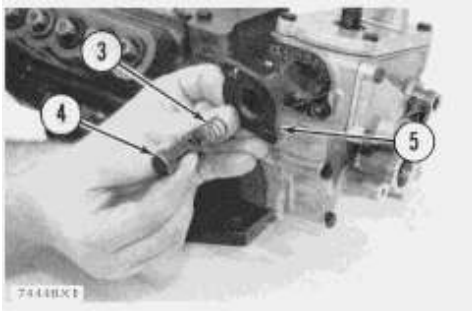


Remove Speed Limiter (Earlier Fuel Systems)



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

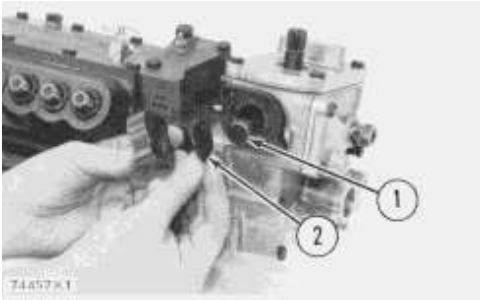
2. Remove the diaphragm from governor housing.



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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REG014000006

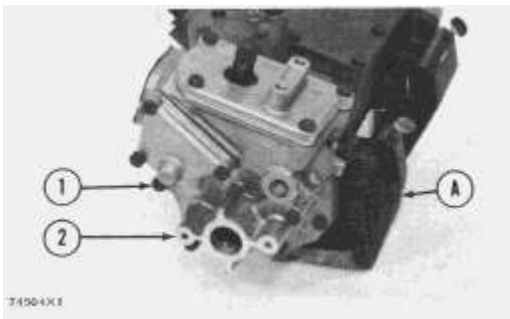
Fuel Injection Pump Housing And Governor

SMCS - 1268-11; 1268-12

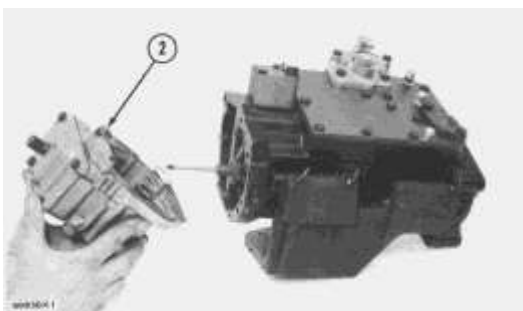
Separation Of Governor From Fuel Injection Pump Housing

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

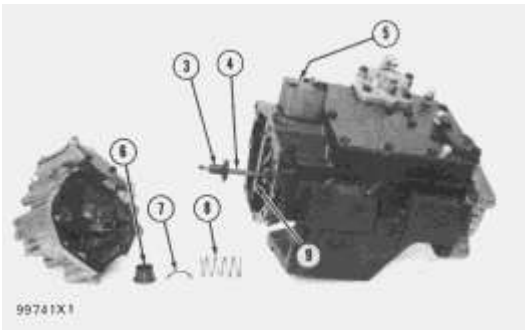
1. Put the fuel injection pump housing on tool (A).



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



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

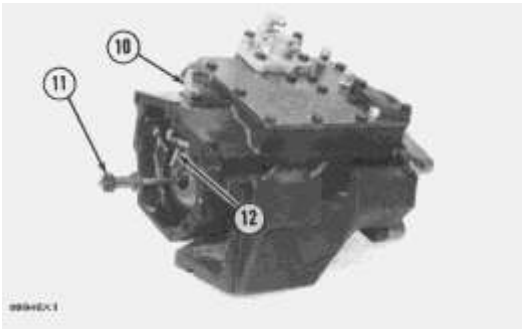


4. Remove cover (5) over the torque spring.

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.

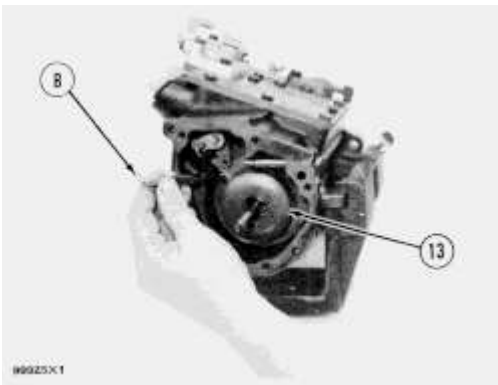


8. Remove torque spring assembly (10) and pin.

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

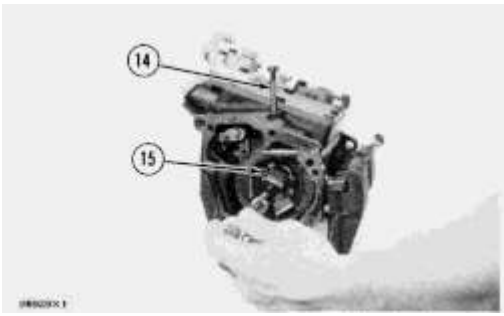
9. Remove riser (follower) (11) from the shaft.

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

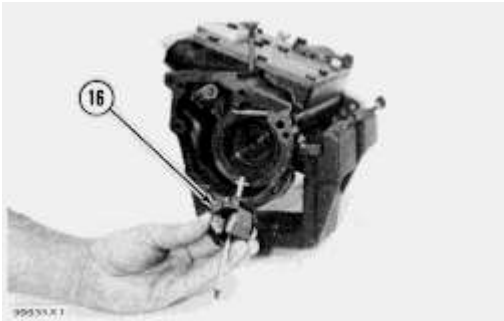


11. Remove cover (13) for the flyweights with tool (B).

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



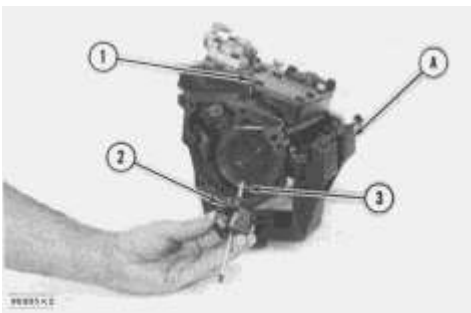
12. Install timing pin (14) to hold the camshaft from turning.
13. Remove bolts (15) that hold flyweight assembly to camshaft.



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.
-

NOTICE

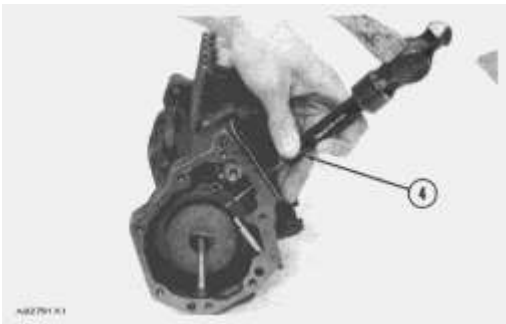
Be sure pin (3) that holds shaft is in the correct position on back of the flyweight assembly.

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.



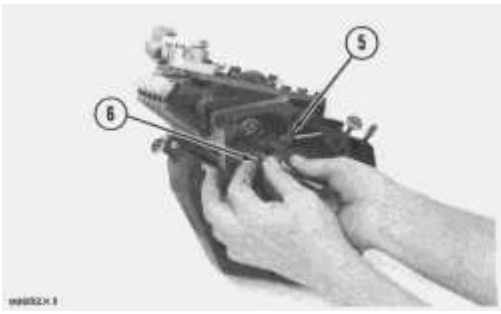
5. Install cover over the flyweight assembly with tool (B).



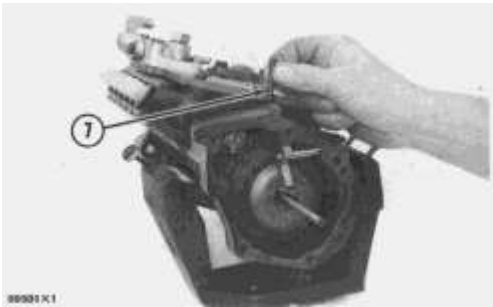
6. Grind a taper on the bottom edge of a 1/8" screwdriver (4). Install the screwdriver through the bolt hole in the governor housing. The screwdriver must fit evenly against the flyweight assembly cover. Make a mark (stake) in four places around the cover in line with the groove in the camshaft.

NOTICE

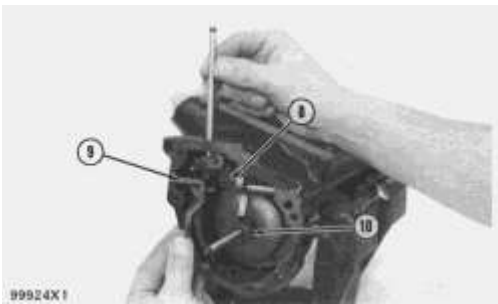
Never install a used flyweight cover that is bent.



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.

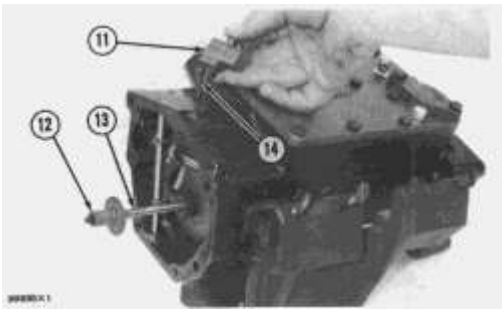


9. Put riser (follower) (10) in position between the flyweights. Lift the flyweight up with a piece of wire and push riser (follower) forward.

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.

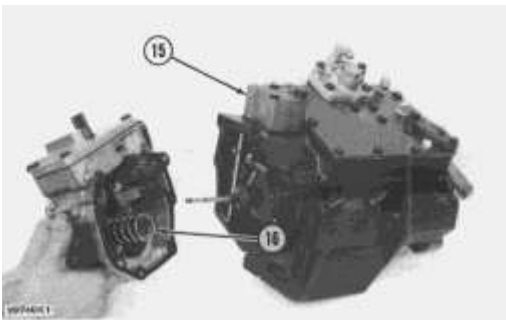


11. Install over fueling spring (13) and seat (12) on shaft.

12. Install stud (14) and torque spring or stop bar (11) on the housing.

NOTICE

The screw that holds the torque spring must not go beyond the inner surface of the governor housing.



13. Install cover (15) over torque spring after adjustment has been made.

14. Install guide, (wave) washer and spring (16) in the governor housing.

15. Put the governor housing on the fuel injection pump housing and install the bolts.

end by:

a) make adjustment of fuel system setting (See Fuel System Setting in Testing and Adjusting)

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REG014000007

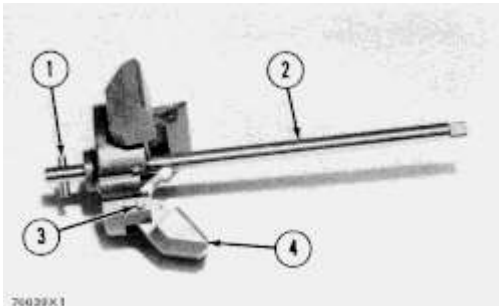
Governor

SMCS - 1264-15; 1264-16

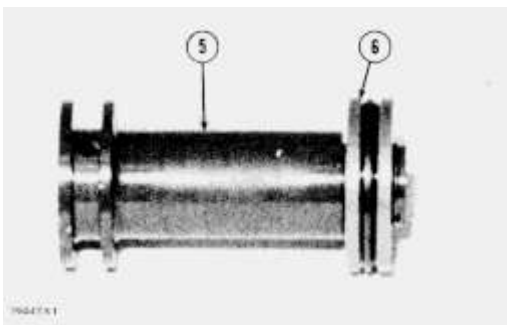
Disassemble Governor

start by:

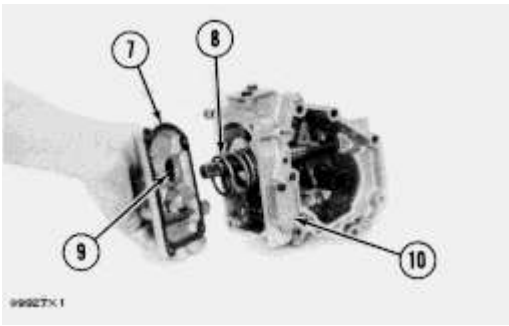
a) separation of governor from fuel injection pump housing



1. Remove shaft (2). Remove pin (1) from shaft.
2. Remove pins (3) from the flyweights. Remove flyweights (4).



3. Remove ring, races (6) and bearing from the riser (follower) (5).

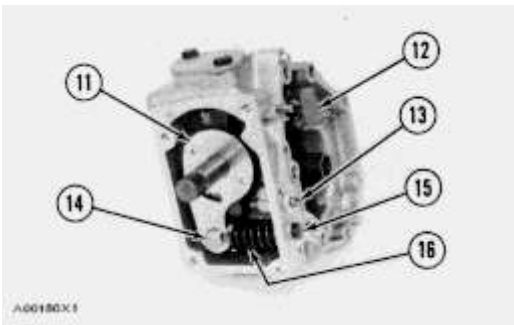


4. Remove cover (7) and spring (8) from governor housing.

NOTE: There is force on the cover from the spring.

5. Remove seal (9) from cover.

6. Remove cover (10) for the low and high idle adjustment.



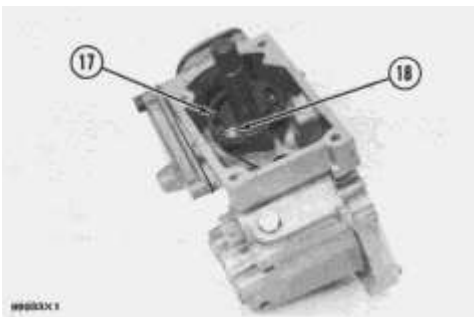
7. Remove locknut and screw (13) for the high idle adjustment.

8. Remove bolt (15) and washers for the low idle adjustment.

9. Remove spring (16) and guide.

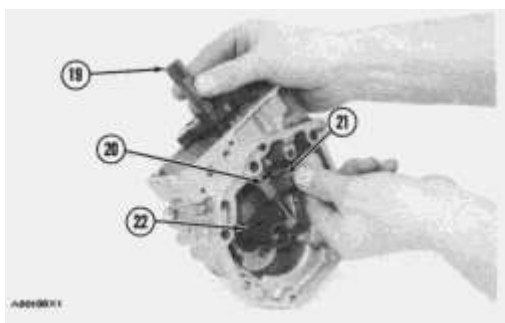
10. Remove pin (14) and plate (11).

11. Remove shaft (12) from the housing.



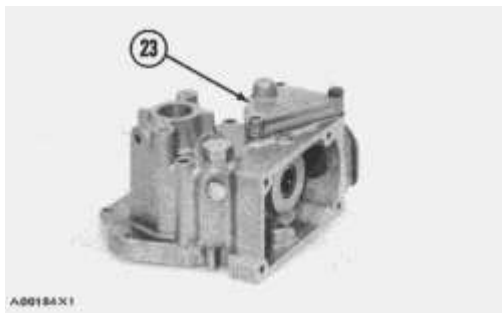
12. Remove pin (18) and two spacers (17) from shaft.

NOTE: Earlier fuel systems have a ball in place of spacers (17) and pin (18).

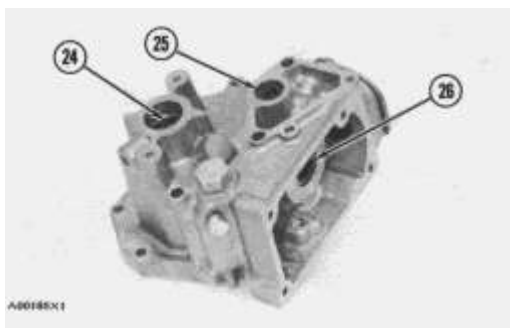


13. Remove shaft (19) from the governor housing.

14. Remove washer (20) and levers (21) and (22) from governor housing.



15. Remove cover (23) from governor housing.

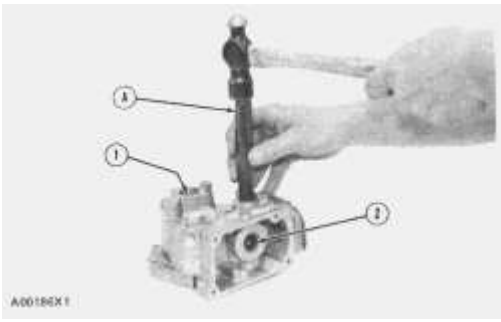


16. Remove seal (25) and bearing.

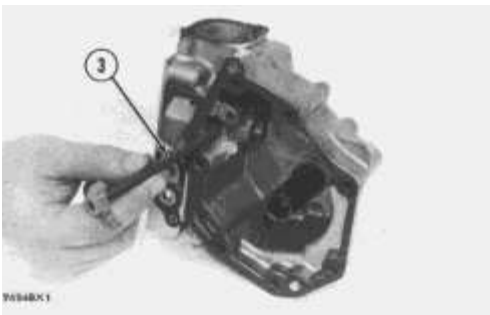
17. Remove seals (24) and (26) from governor housing.

Assemble Governor

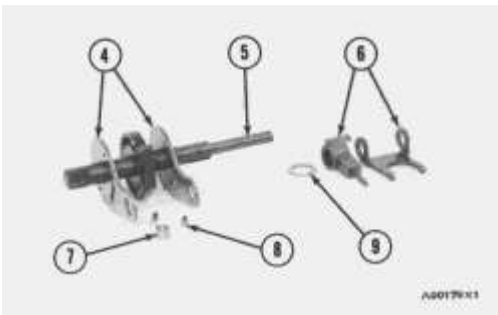
Tools Needed		A	B
1P529	Handle	1	1
1P457	Drive Plate		1
1P471	Drive Plate		1



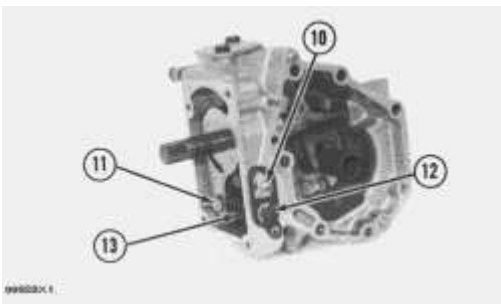
1. Install bearing and seal in the housing with tool (A). The lip of the seal must be toward the bearing.
2. Install seal (1) in housing with tool (A). The lip of seal must be toward inside of housing.
3. Install seal (2) in housing with tooling (B). The lip of seal must be toward the inside of housing.



4. Install shaft (3) in the housing.

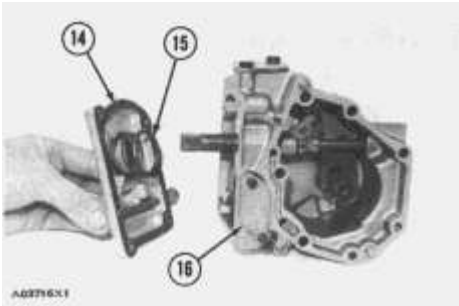


5. Install plates (4), spacers (8) and pin (7) on shaft.
6. Install shaft (5) in housing and through washer (9) and levers (6).

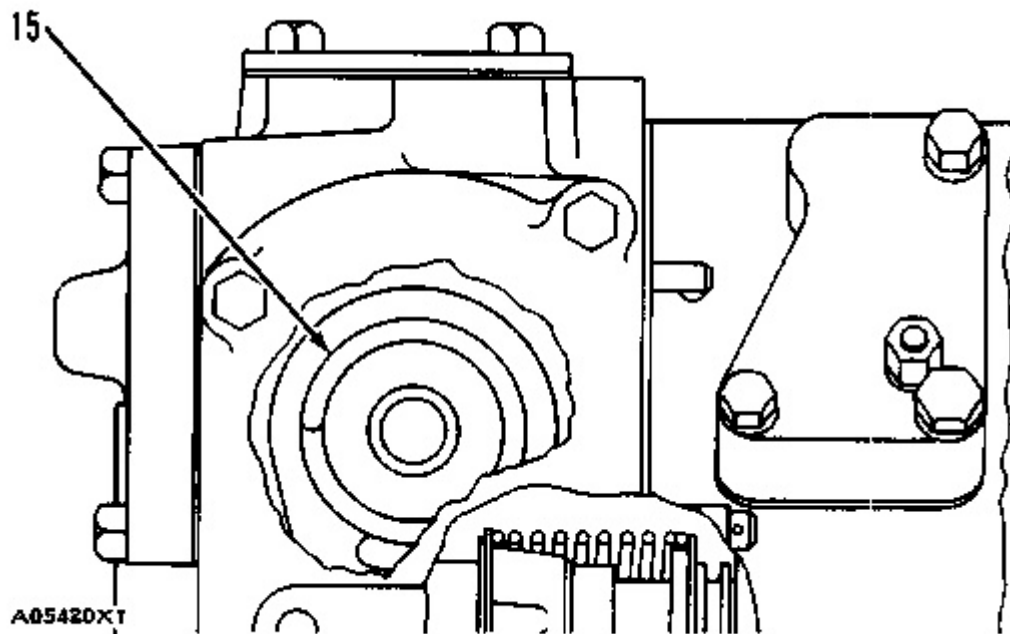


7. Install pin (11) in holes of the plates.
8. Install screw (10) and locknut for high idle adjustment.

9. Install spring (13) and guide.
10. Install bolts (12) and washer for low idle adjustment.
11. Push plate and pin (11) over toward the bolt (12) and tighten the bolt.



12. Install seal in cover with tooling (B). The lip of seal must be toward the inside.
13. Install spring (15) in the cover. Install cover (14) on housing.



NOTICE

The spring (15) must be installed with the end of spring as shown.

14. Install cover (16) for the idle adjustment screws.

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