

Product: TRACK LOADER  
Model: 955K TRACK LOADER 85J  
Configuration: 955K TRAXCAVATOR 85J00001-04671 (MACHINE)

## Disassembly and Assembly 955L TRACK-TYPE LOADER ENGINE

Media Number -SEN7366-00

Publication Date -01/06/1993

Date Updated -12/10/2001

# Fuel Injection Pump Housing And Governor

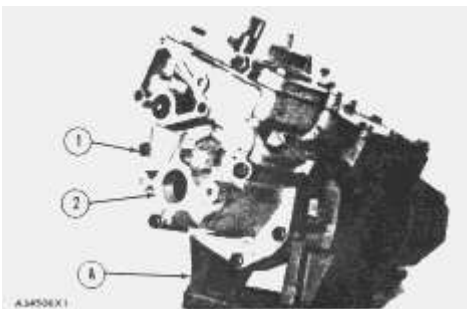
SMCS - 1278-11; 1278-12; 1278-15; 1278-16

## Separation Of Governor From Fuel Injection Pump Housing

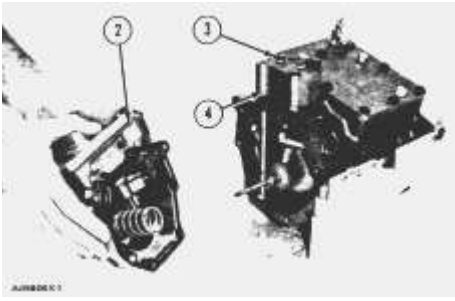
Tools Needed		A	B
2P8315	Bracket Assembly	1	
5P302	Bar		1

start by:

- a) remove fuel injection pump housing and governor
- b) remove adapter housing

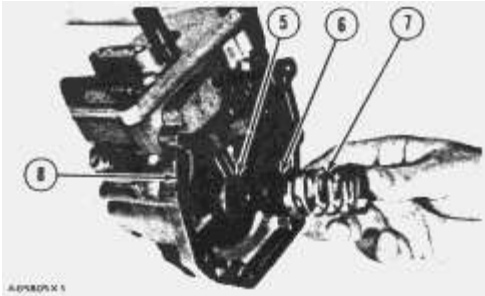


1. Put the fuel injection pump housing and governor in position on tool (A).
2. Remove bolts (1) that hold the governor housing (2) to the fuel injection pump housing.



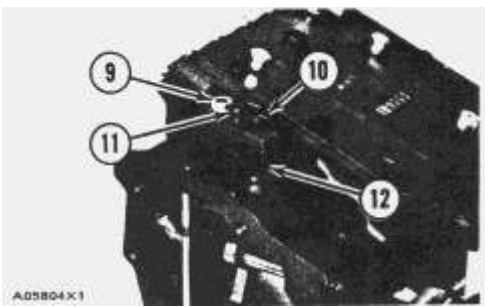
3. Remove governor housing (2).

4. Remove two bolts (3) from the cover. Remove cover (4) from over the torque spring.



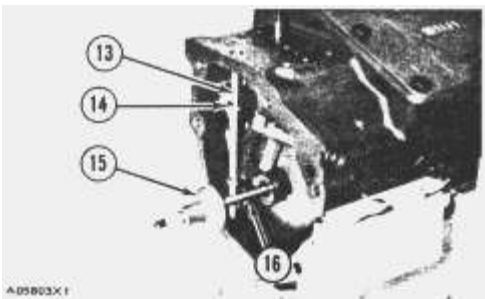
5. Remove spring (7), wave washer (6) and guide (5) from the governor housing.

6. Remove gasket (8) from the governor housing.



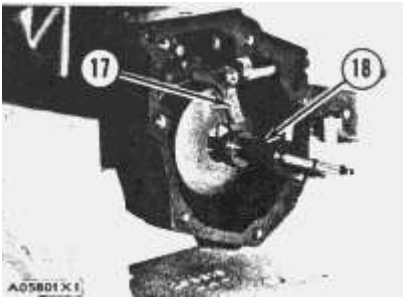
7. Remove bolt (11) and nut (9) from the torque spring (10). Remove the torque spring.

8. Remove pin (12) from the hole in the fuel injection pump housing.

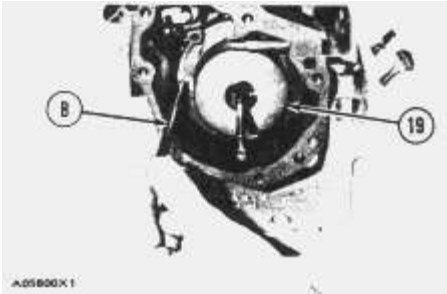


9. Remove seat (15) and over fueling spring (16) from the shaft.

10. Pull shaft (13) up and remove lever (14).

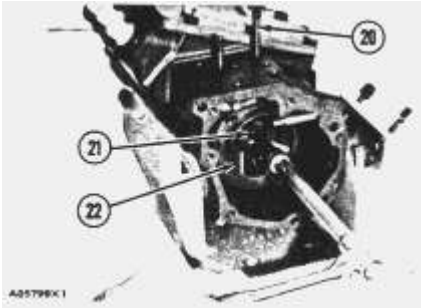


11. Remove riser (follower) (18) from the shaft.
12. Remove ring and lever (17) from the dowel.



13. Remove cover (19) with tool (B).

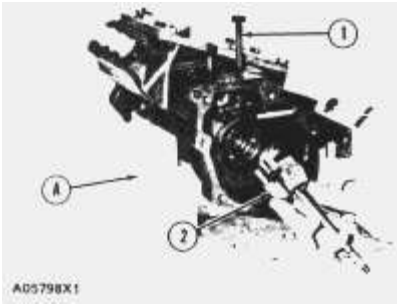
**NOTE:** Tool (B) can cause damage to cover. Always inspect the cover for damage and install a new cover if needed.



14. Install timing pin (20) to hold the camshaft from turning.
15. Remove three bolts (21) that hold the flyweight assembly in position.
16. Remove flyweight assembly (22).
17. Remove the timing pin from the fuel injection pump 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 hold the camshaft from turning.
3. Put flyweight assembly (2) in position on the camshaft.

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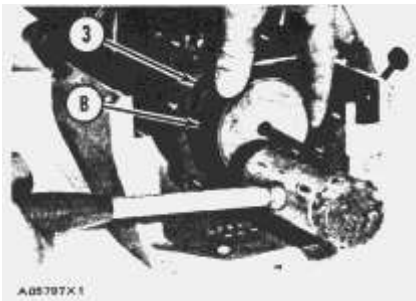
### NOTICE

**Make sure the pin that holds the shaft in the flyweight assembly is in position before installing the flyweight assembly.**

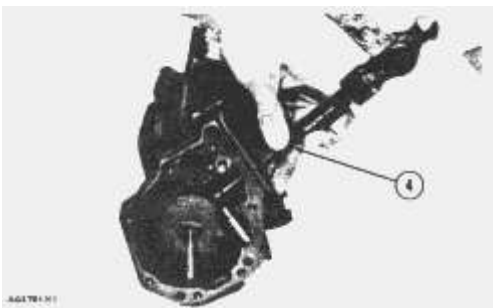
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4. Install three new bolts that hold the flyweight assembly to the camshaft.

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



5. Install cover (3) over the flyweight assembly with tool (B).



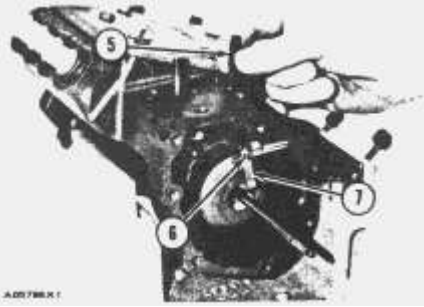
6. Grind a taper on the bottom edge of a 1/8" screwdriver (4). Install the screwdriver through the bolt hole in the governor housing. The screwdriver must fit evenly against the flyweight assembly cover. Make a mark (stake) in four places around the cover in line with the groove in the camshaft.

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## NOTICE

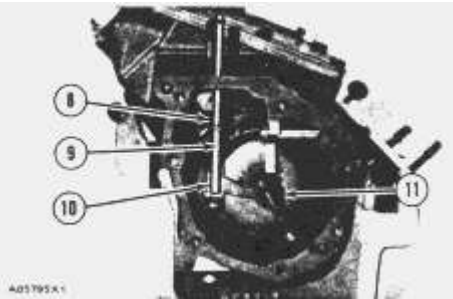
**Never install a used flyweight cover.**

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7. Put lever (7) on the dowel. Install ring (6).

8. Install pin (5) in the fuel injection pump housing with the round edge down.



9. Put the riser (follower) (11) in position between the flyweights. Lift the flyweights up with a piece of wire and push the riser (follower) forward.

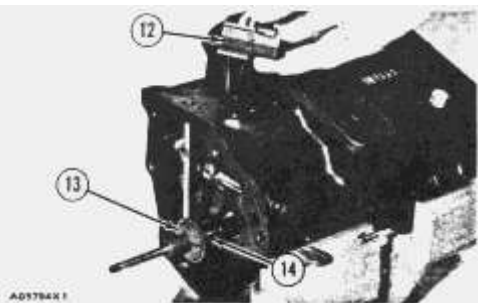
10. Put lever (10) in position in the groove of the riser (follower) (11) and the ball end engaged in the sleeve shaft lever (8). Install shaft (9) that holds the lever in position.

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## NOTICE

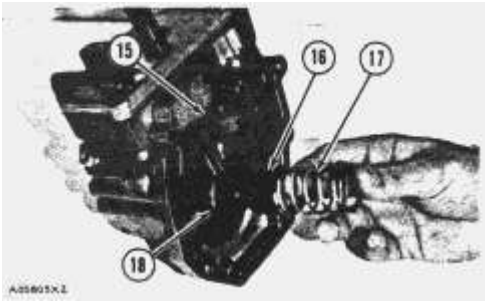
**If lever (10) is not installed correctly, the governor can not operate and can cause the engine to overspeed.**

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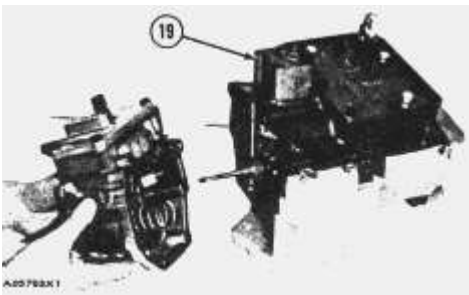
**11.** Install over fueling spring (14) and seat (13) on the shaft.

**12.** Install the torque spring (12). Install the bolt and nut that hold the torque spring in position.



**13.** Install guide (18), wave washer (16) and spring (17) in the governor housing.

**14.** Put a new gasket (15) on the governor housing.



**15.** Install cover (19) over the torque spring. Install the two bolts that hold the cover in position.

**16.** Put the governor housing on the fuel injection pump housing. Install the bolts that hold the governor housing in position.

end by:

**a)** install adapter housing

**b)** install fuel injection pump housing and governor

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## Disassembly and Assembly 955L TRACK-TYPE LOADER ENGINE

Media Number -SEN7366-00

Publication Date -01/06/1993

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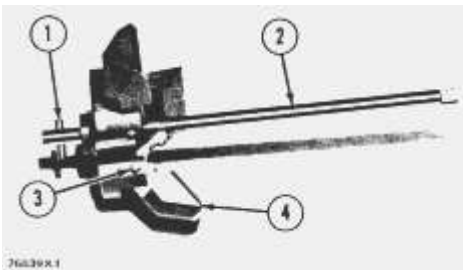
### Governor

SMCS - 1264-15; 1264-16

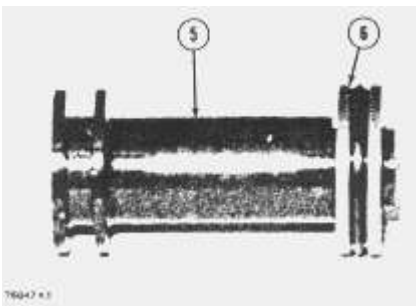
### Disassemble Governor

start by:

a) separation of governor from fuel injection pump housing

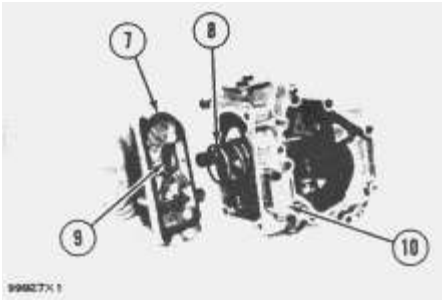


1. Remove shaft (2). Remove pin (1) from the shaft.
2. Remove pins (3) from the flyweights. Remove flyweights (4).

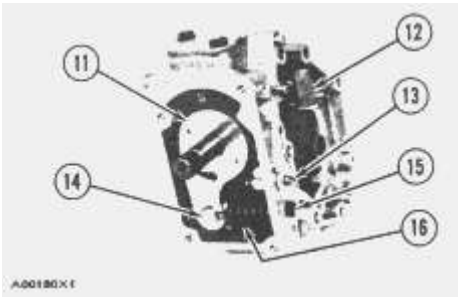


3. Remove ring, races (6) and bearings from the riser (follower) (5).

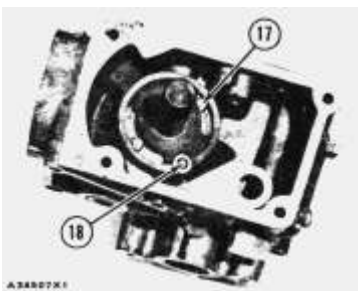
**NOTE:** There is a force on the cover (7) from the spring (8).



4. Remove cover (7) and spring (8) from the governor housing.
5. Remove seal (9) from the cover.
6. Remove cover (10) for the low and high idle adjustments.



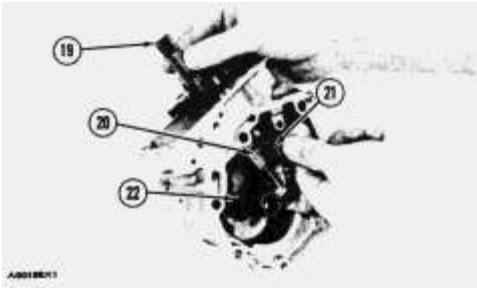
7. Remove locknut and screw (13) for the high idle adjustment.
8. Remove bolt (15) and washers for the low idle adjustment.
9. Remove spring (16) and guide.
10. Remove pin (14) and plate (11).
11. Remove shaft (12) from the housing.



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

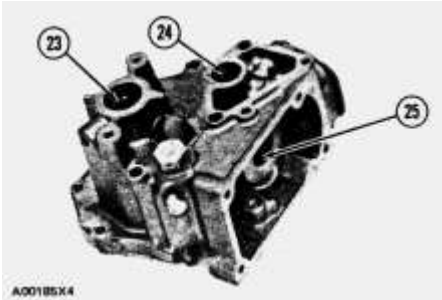
**NOTE:** Earlier model sleeve metering fuel systems have a ball in place of spacers (17) and pin (18).





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

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

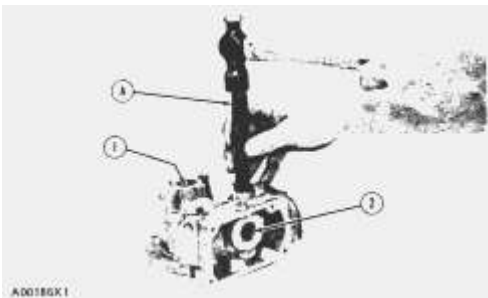


15. Remove seal (24) and bearing.

16. Remove seals (23) and (25) from the governor housing.

## Assemble Governor

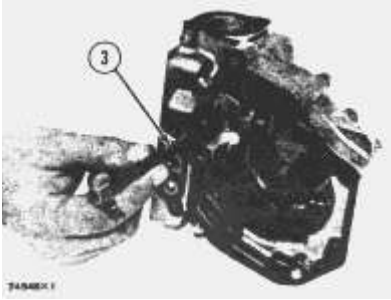
Tools Needed		A	B
1P529	Handle	1	1
1P471	Drive Plate		1
1P457	Drive Plate		1



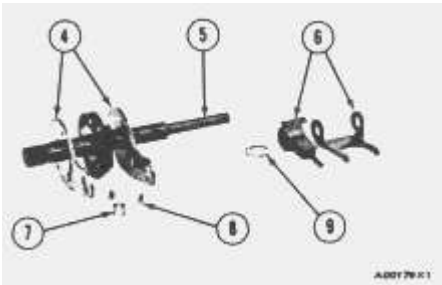
1. Install the bearing and seal in the housing with tool (A). The lip of the seal must be toward the bearing.

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

**3.** Install seal (2) in the housing with tooling (B). The lip of the seal must be toward the inside of the housing.

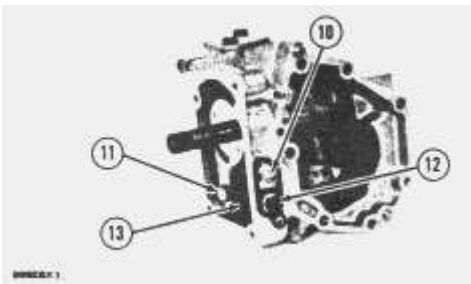


**4.** Install shaft (3) in the housing.



**5.** Install plates (4), spacers (8) and pin (7) on the shaft.

**6.** Install shaft (5) in the housing and through washer (9) and levers (6).



**7.** Install pin (11) in holes of the plates.

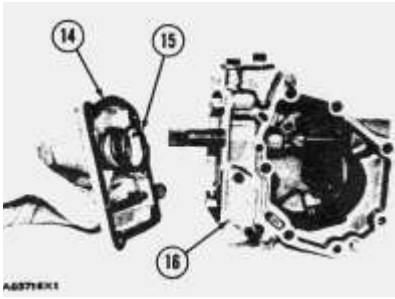
**8.** Install screw (10) and locknut for high idle adjustment.

**9.** Install spring (13) and guide.

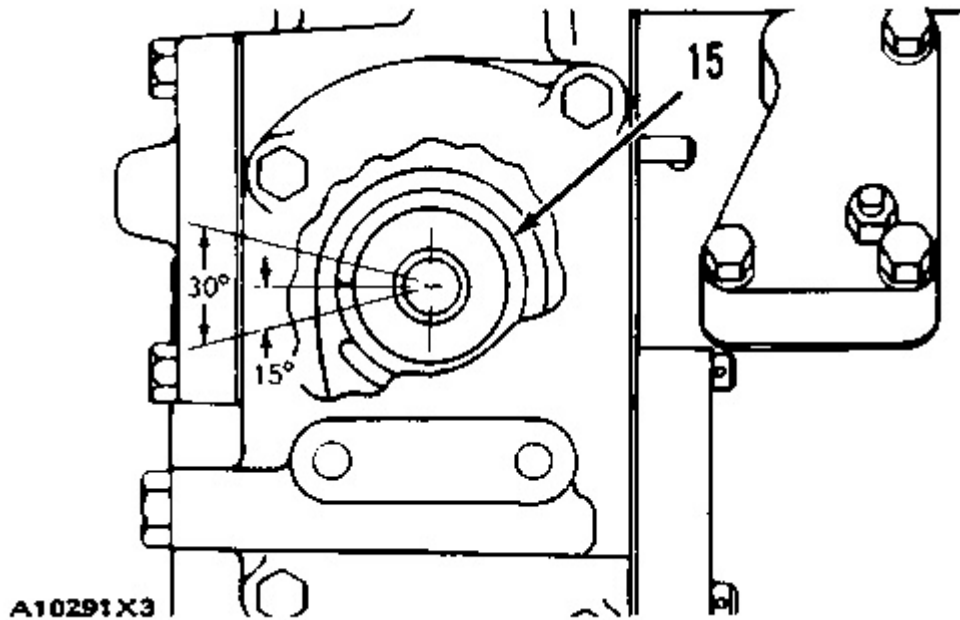
**10.** Install bolts (12) and washer for low idle adjustment.

**11.** Push plate and pin (11) over toward bolt (12) and tighten the bolt.

**12.** Install the seal in the cover with tooling (B). The lip of the seal must be toward the inside.



13. Install spring (15) in the cover.



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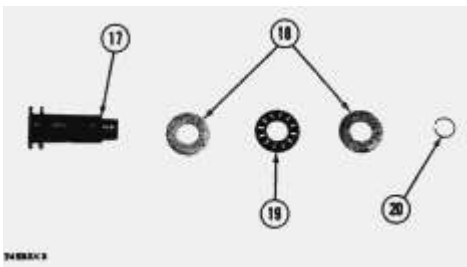
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**NOTICE**

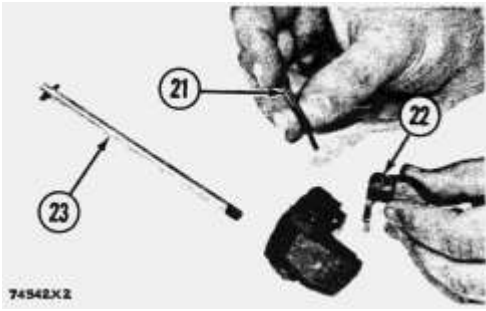
**The spring (15) must be installed with the end of the spring as shown.**

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



15. Install bearing (19) between races (18) on riser (follower) (17). Install ring (20) that holds the washer on the riser (follower).



**16.** Install pin in shaft (23).

**17.** Install flyweights (22) and pin (21).

**18.** Install shaft (23) in flyweight assembly.

end by:

**a)** connection of governor to fuel injection pump housing

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Media Number -SEN7366-00

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# Fuel Check Valve And Bypass Valve

SMCS - 1264-15; 1264-16

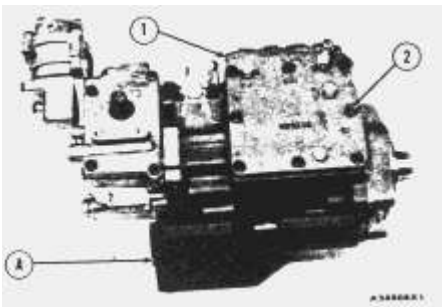
## Remove Fuel Check Valve And Bypass Valve

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### NOTICE

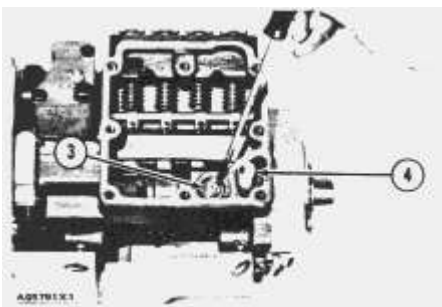
**Clean the outer surface of the fuel injection pump housing and governor before removing the fuel check valve and bypass valve.**

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1. Remove the fuel from the fuel injection pump housing. Install the fuel injection pump housing and governor on tool (A).

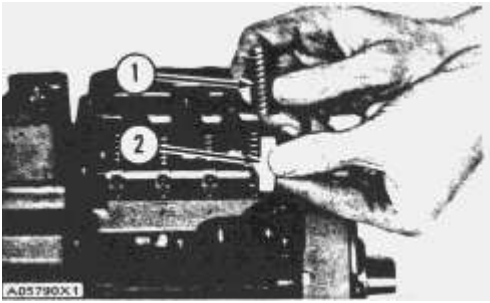
2. Remove eight bolts (2). Remove cover (1).



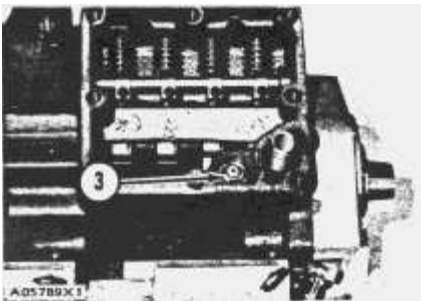
3. Remove check valve (3).

4. Remove spring (4) and the bypass valve.

## Install Fuel Check Valve And Bypass Valve



1. Install bypass valve (2) and spring (1) in the fuel injection pump housing.



2. Install check valve (3) in the fuel injection pump housing. Make sure the check valve is installed evenly in the fuel injection pump housing.

**NOTE:** Do not install a check valve that is bent.

3. Put the cover in position on the fuel injection pump housing. Make sure the spring on the bypass valve is in the cover. Install the eight bolts that hold the cover in position.

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Media Number -SEN7366-00

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### Fuel Injection Pumps

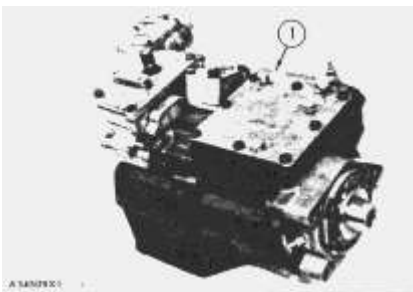
SMCS - 1251-15; 1251-16; 1251-11; 1251-12

### Remove Fuel Injection Pumps

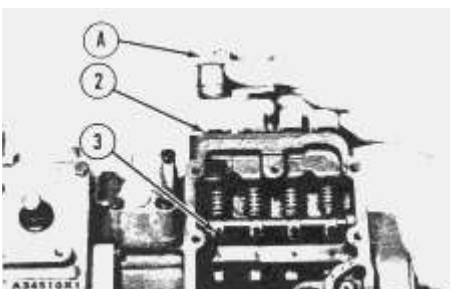
Tools Needed		A
852243	Wrench	1

#### NOTICE

**Before any service work is to be done on the fuel system the outer surface of injection pump housing must be clean.**



1. Remove the cover assembly (1) from the pump housing. Remove spring for the bypass valve.



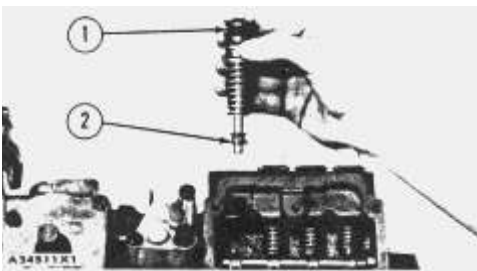
2. Loosen the bushing (2) from the pump housing with tool (A).

**NOTE:** Do not loosen the screws (3) that hold levers to shaft when the pumps are removed or installed. If levers are moved, fuel pump adjustment will be changed.

3. Remove the fuel injection pump from the pump housing. The sleeve on the plunger will slide off the lever as the pump is removed.

## Install Fuel Injection Pumps

Tools Needed		A
8S2243	Wrench	1



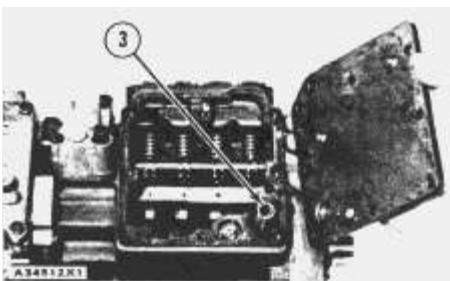
1. Put the fuel injection pump (1) in the bore of pump housing.

2. The sleeve (2) will be engaged with lever when installed correctly.

### NOTICE

**If levers have been moved on the shaft, fuel pump adjustment must be made. (See TESTING AND ADJUSTING).**

3. Tighten the bushing with wrench (A) to a torque of  $70 \pm 5$  lb. ft. ( $94.9 \pm 6.8$  N·m).



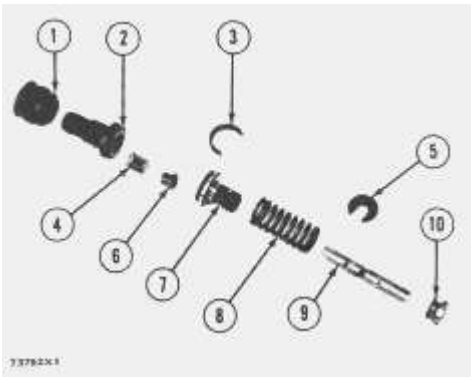
4. Put the spring on the bypass valve. Install the cover assembly on the pump housing. Be sure the spring (3) is in position in the cover.

## Disassemble Fuel Injection Pumps



start by:

**a) remove fuel injection pumps**



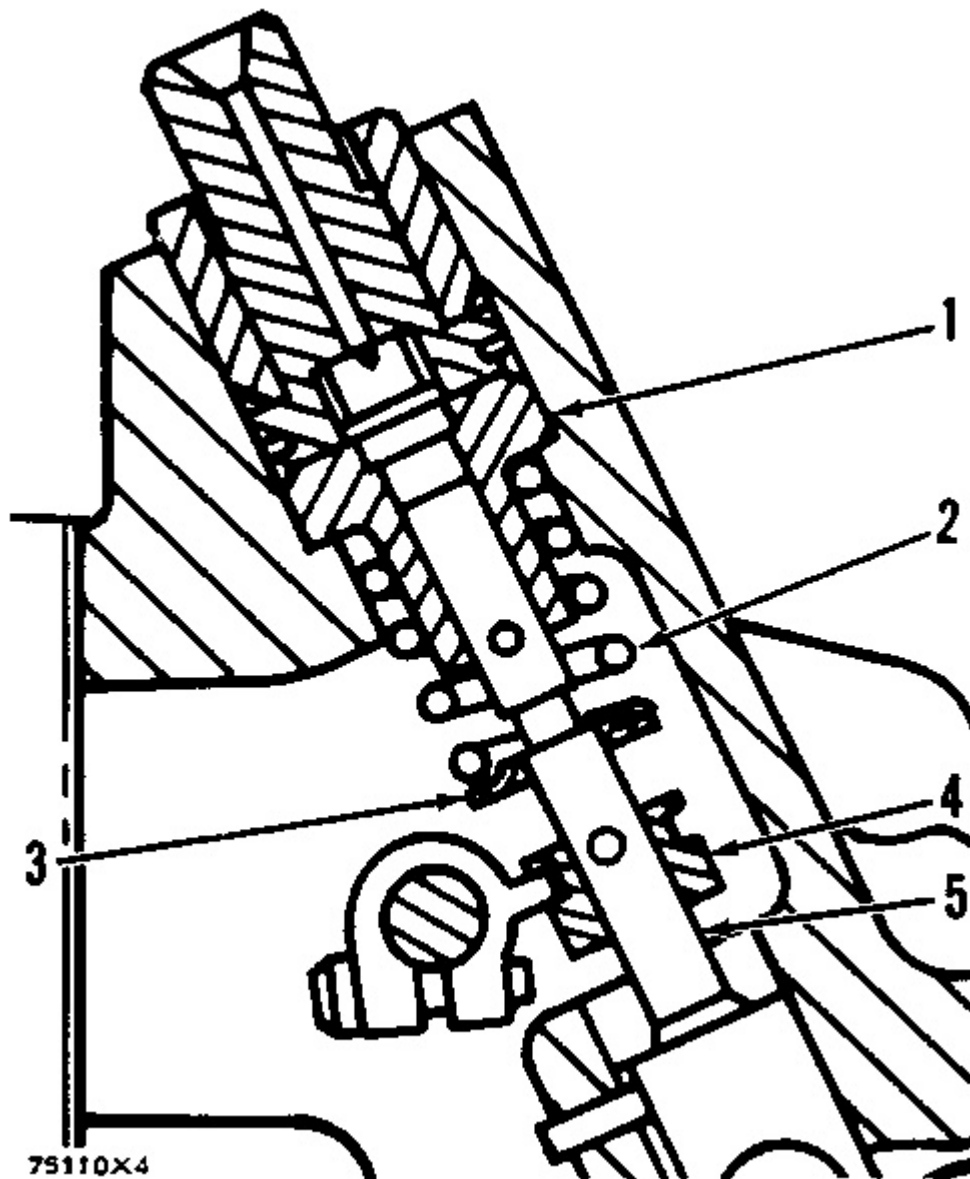
1. Remove the bushing (1) from the bonnet (2).

2. Remove the ring (3) from the bonnet and barrel (7). Remove the check valve (6) and spring (4) from the bonnet.

3. Remove the spring (8) and washer (5). Remove the plunger (9) and sleeve (10).

**NOTE:** Keep the plunger and sleeve with their respective barrel for installation. Do not use plungers, sleeves, and barrels with other plungers, sleeves, and barrels.

## **Assemble Fuel Injection Pumps**



1. Install the sleeve (4), plunger (5), spring (2), and washer (3) on the barrel (1).

**NOTE:** Be sure sleeve and plunger are installed in original barrel, and large hole in plunger is up.

2. Install check valve and spring in bonnet. Connect the barrel and bonnet and install the ring. Install the bushing on the bonnet.

end by:

a) install fuel injection pumps

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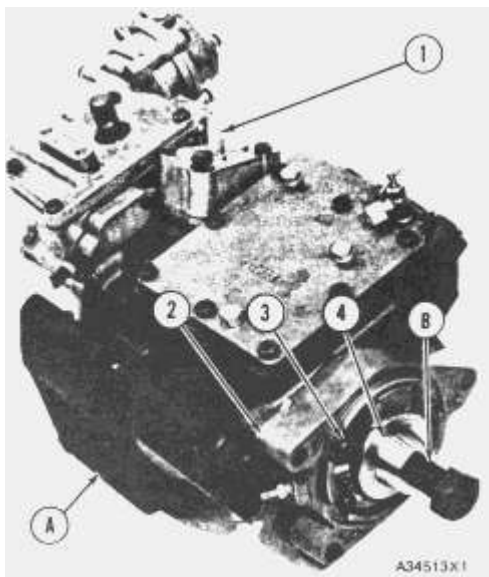
Date Updated -12/10/2001

### Fuel Transfer Pump

SMCS - 1256-11; 1256-12

### Remove Fuel Transfer Pump

Tools Needed		A	B
2P8315	Bracket Assembly	1	
2H3740	Bolt		1



1. Put the fuel injection pump housing on tool (A).
2. Install timing pin (1) to keep the injection pump camshaft in position when the transfer pump is removed.
3. Install bolt (B) in the threads of sleeve (4). Tighten the bolt until the sleeve can be removed.

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**NOTICE**

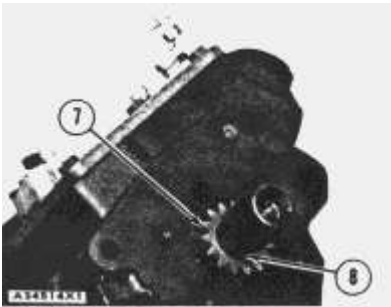
**Do not hit the bolt or sleeve. This will cause damage to the unit.**

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4. Remove bolts (3) that hold the body to the housing.
5. Remove body (2) from the housing.



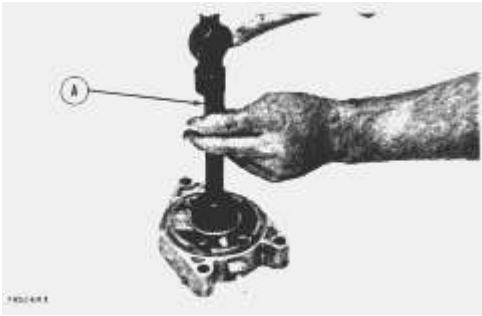
6. Remove idler gear (6) from the body.
7. Remove O-ring seal (5) and the two lip-type seals from the body.



8. Remove drive gear (7) from the shaft.
9. Remove key (8) from the shaft.

## **Install Fuel Transfer Pump**

Tools Needed		A	B	C
1P529	Handle	1	1	
1P463	Drive Plate	1		
5P318	Drive Plate	1		
5P319	Drive Plate		1	
S1603	Bolt			1
4B4280	Washer			1
4N3371	Washer			1



1. Install the inner seal in the body with tool (A). The lip of the seal must be toward the pump gears.
2. Install the outer seal with tool (B). The lip of the seal must be toward the outside.

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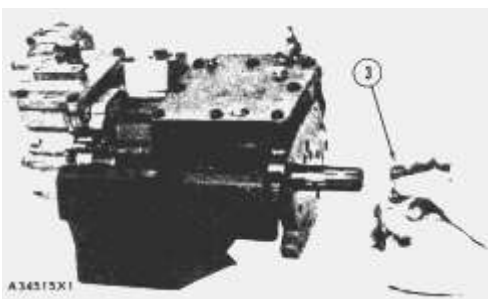
### NOTICE

**Always be careful not to cause damage to the machined surface of the pump body.**

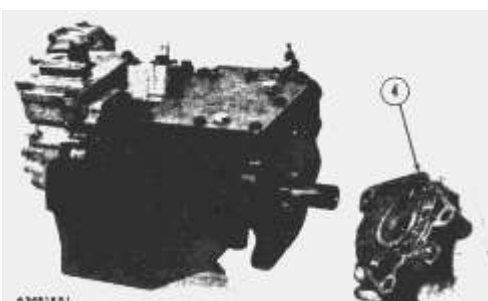
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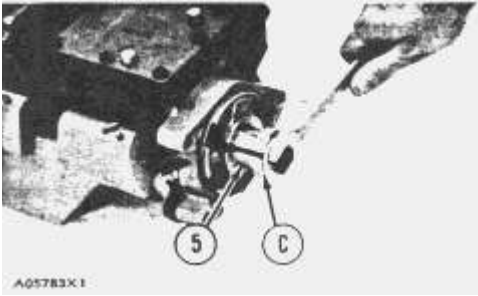
3. Install the O-ring seal (2) and the idler gear (1) on the body.



4. Install the key and drive gear (3) on the shaft.



5. Install the body (4) on the housing.
6. Install the bolts that hold the body to the housing.



7. Put the sleeve (5) in position on the camshaft.

**NOTE:** The timing pin must be in the position shown to keep the camshaft in position when the transfer pump is installed.

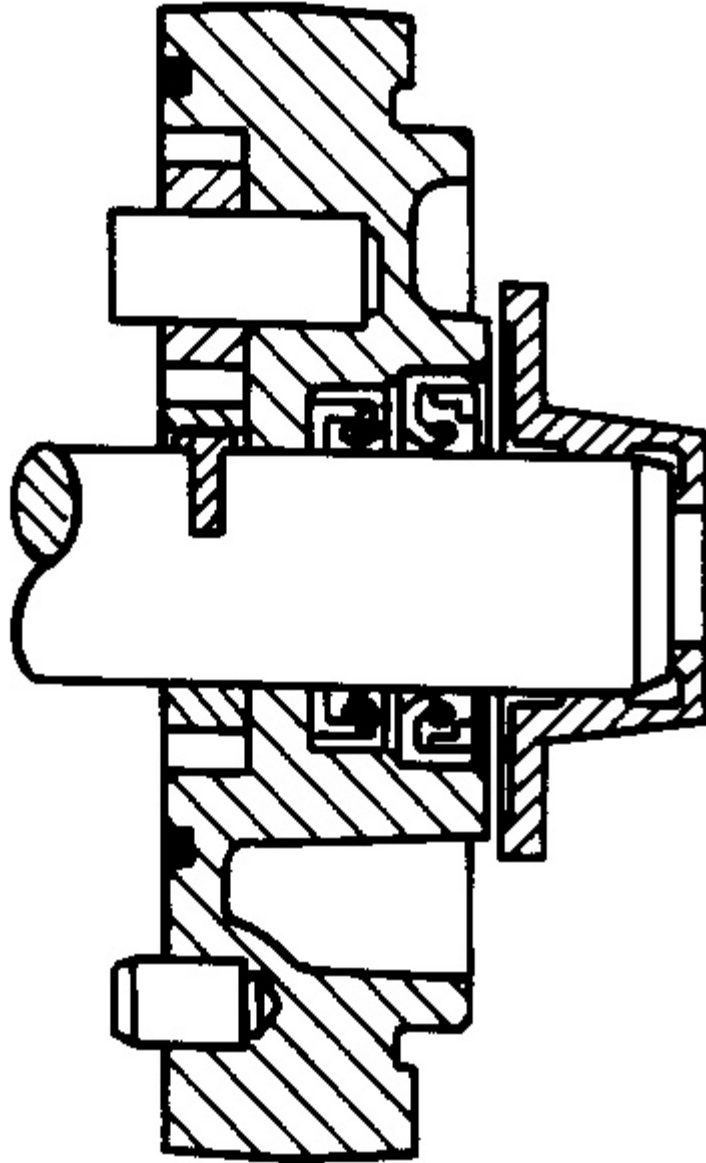
8. Install the sleeve on the camshaft with tooling (C).

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### NOTICE

**Do not hit the sleeve with a hammer to install it. This will put end force on the camshaft and cause damage to the other components in the pump housing.**

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75111x2

9. The end clearance of the camshaft must be  $.023 \pm .018$  in. ( $0.58 \pm 0.46$  mm) after sleeve (5) is installed.

end by:

a) install fuel injection pump housing and governor

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## **Disassembly and Assembly 955L TRACK-TYPE LOADER ENGINE**

Media Number -SEN7366-00

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### **Fuel Injection Pump Housing**

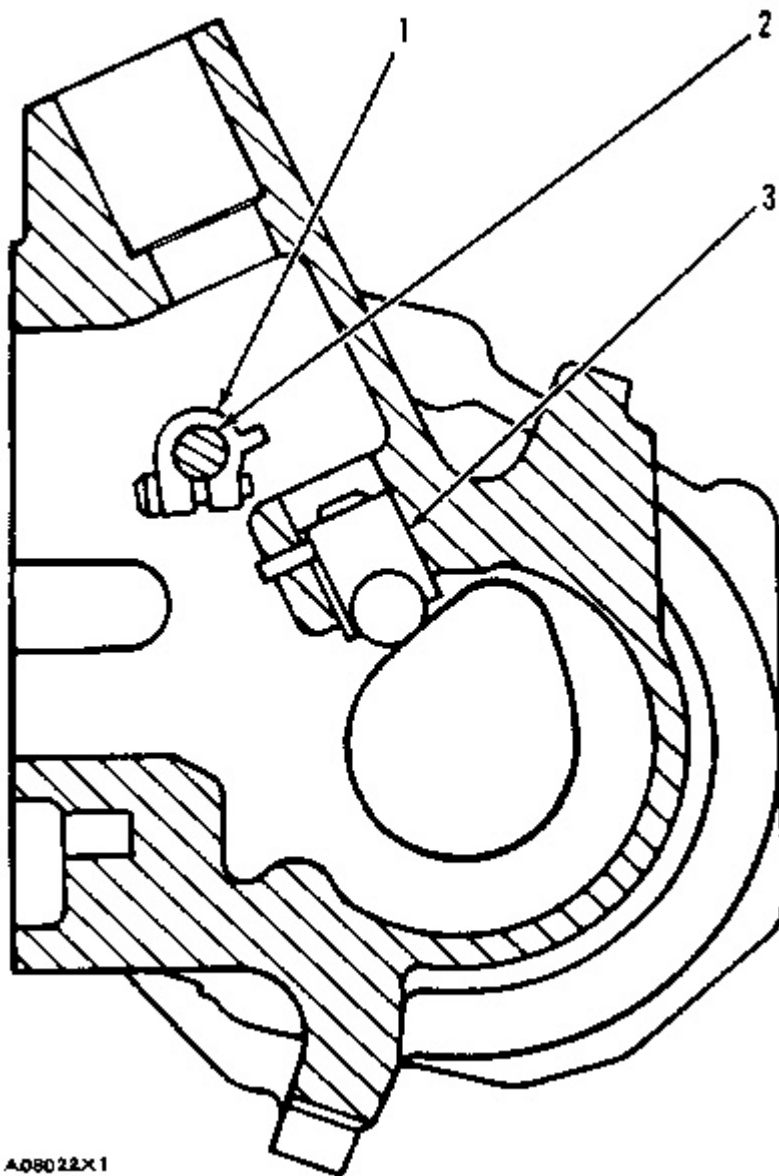
SMCS - 1253-15; 1253-16

### **Disassemble Fuel Injection Pump Housing**

start by:

- a) remove fuel injection pumps
  - b) separation of governor from fuel injection pump housing
  - c) remove fuel transfer pump
1. Remove the dowel from the fuel injection pump housing for the torque spring lever.





2. Loosen the screws that hold levers (1) to the sleeve control shaft (2).
3. Remove the sleeve control shaft (2) from the fuel injection pump housing.
4. Remove lifters and roller assemblies (3) from the fuel injection pump housing.

**NOTE:** Put identification on the lifters and rollers so they will not be mixed at assembly.

5. Remove the camshaft from the fuel injection pump housing.

## **Assemble Fuel Injection Pump Housing**

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