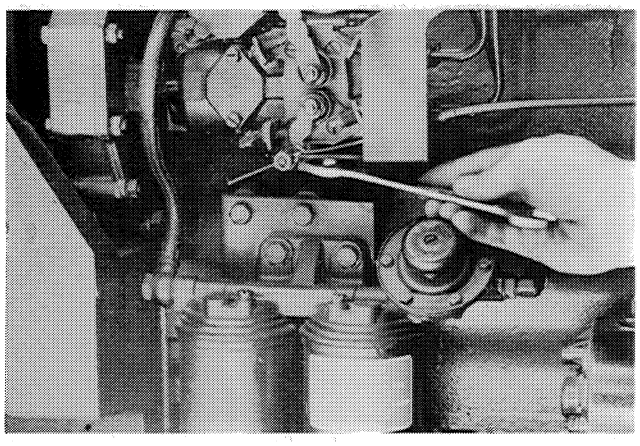
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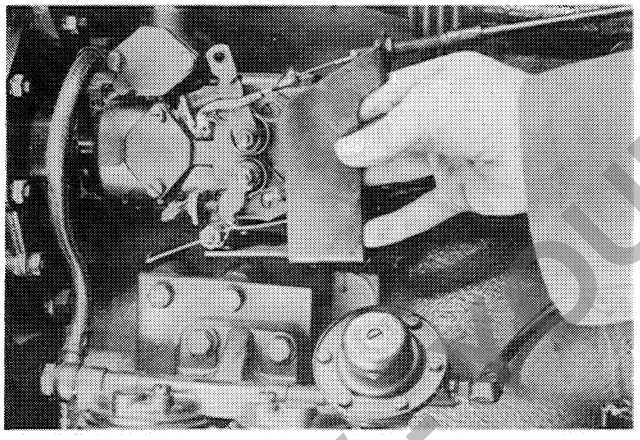
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STEP 61



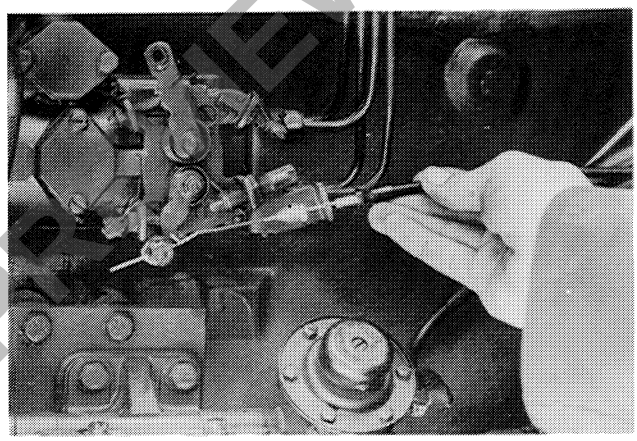
Remove the throttle cable bracket bolts.

STEP 62



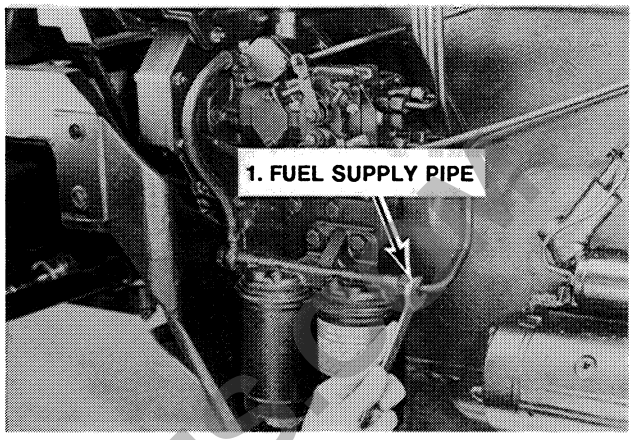
Remove the throttle cable bracket.

STEP 63



Disconnect the fuel stop cable.

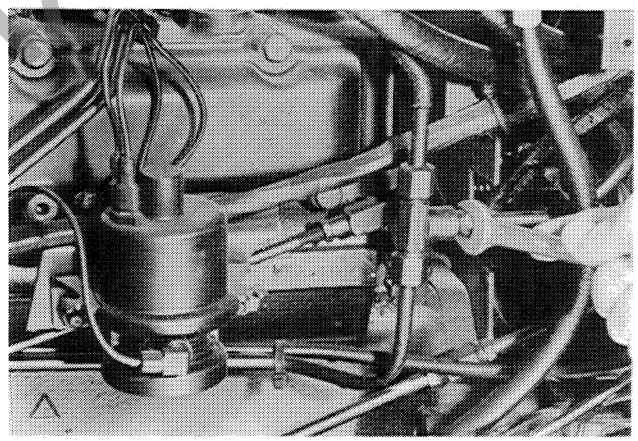
STEP 64



Disconnect the fuel supply pipe.

NOTE: *Fit caps to prevent foreign material from entering the system.*

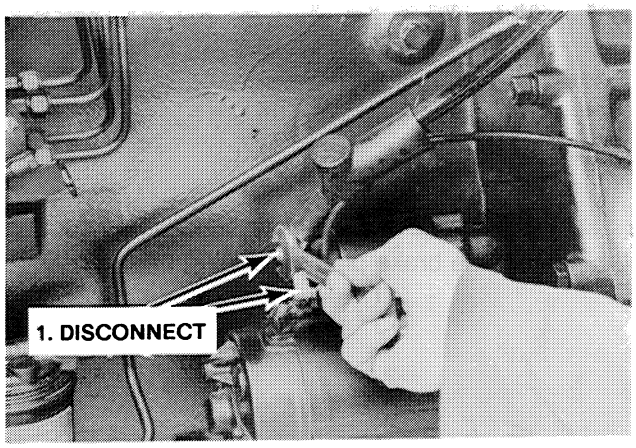
STEP 65



Disconnect the fuel return pipe.

NOTE: *Fit caps to prevent foreign material from entering the system.*

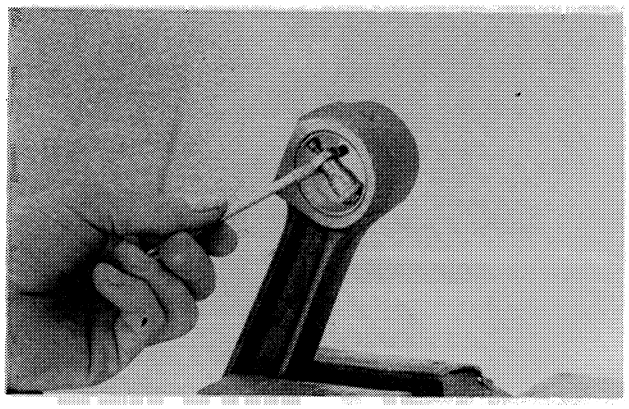
STEP 66



Disconnect the starter motor wiring.

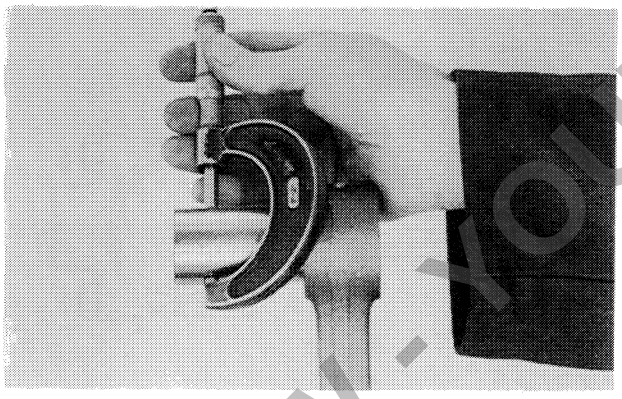
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STEP 19



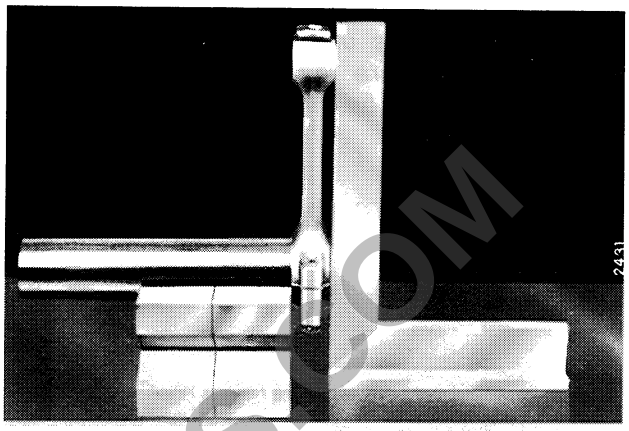
To check the piston pin clearance to the piston pin bushing, subtract the diameter of a new piston pin, (See Specifications) from the inner diameter of the used bushing.

STEP 20



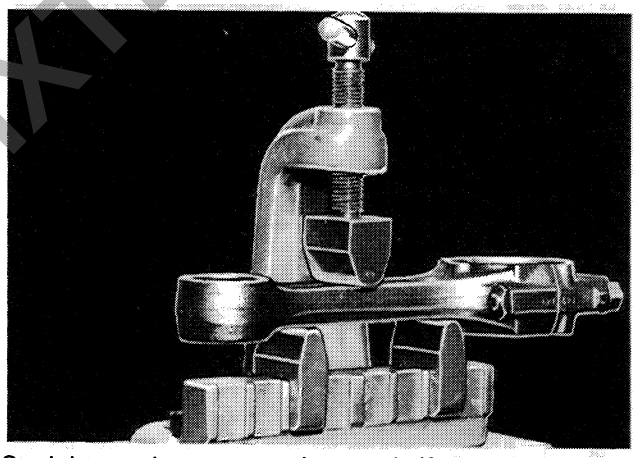
Use micrometer and measure the piston pin. Replace the piston pin if the measurement is less than 1.4168 inch (35.98mm).

STEP 21



Check the connecting rod is square, and for any distortion.

STEP 22

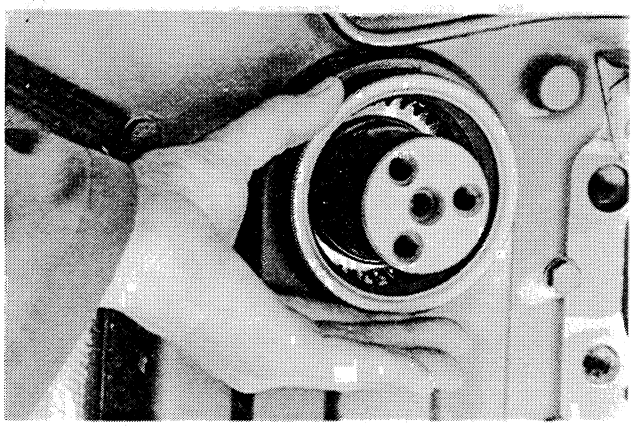


Straighten the connecting rod if necessary. A maximum out of square of 0.016 inch (0.04 mm) is allowed.

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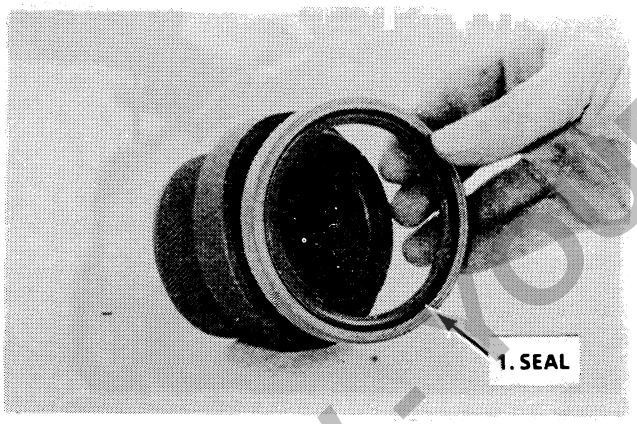
STEP 13



Remove the old oil seal.

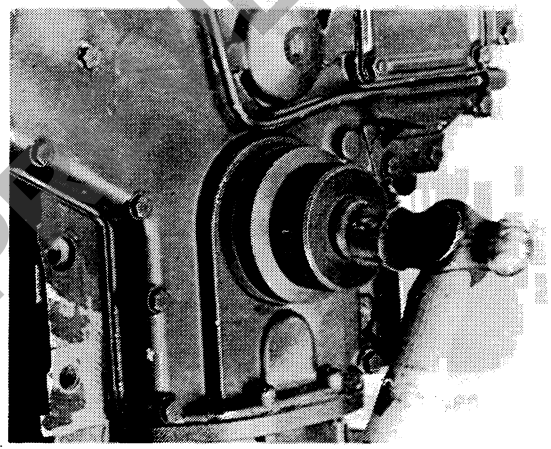
Installation

STEP 14



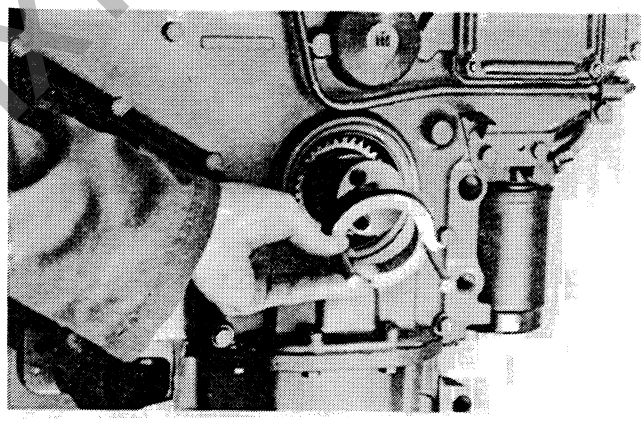
Install a new oil seal on the special tool No. 3228341 R1,open side of seal facing crankshaft.

STEP 15



Install the oil seal into the housing.

STEP 16



Install the spacer ring and remove the $^{1}/_{4}$ U.N.C. bolts.

NOTE: *Make sure the dowel in the spacer ring is located in the slot in the crankshaft gear.*

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Section 3311

VE TYPE FUEL INJECTION PUMP REMOVAL AND TRACTOR SETTINGS

85 Series and 380B Industrial Tractor

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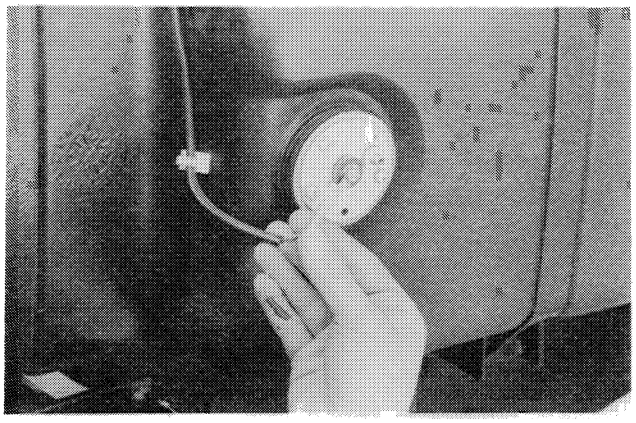
CASE CORPORATION

Don 8-59020

Printed in England
October, 1987

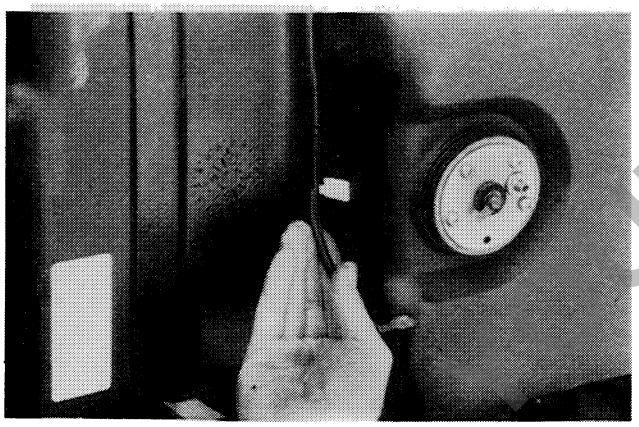
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STEP 42



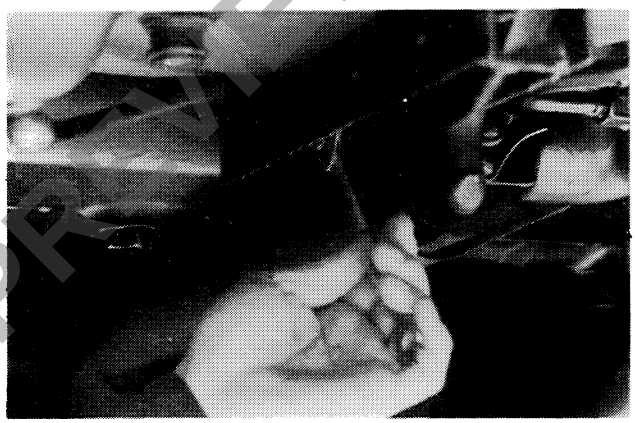
Remove the sender unit power supply lead.

STEP 43



Remove the electrical leads from the clips on the tank.

STEP 44



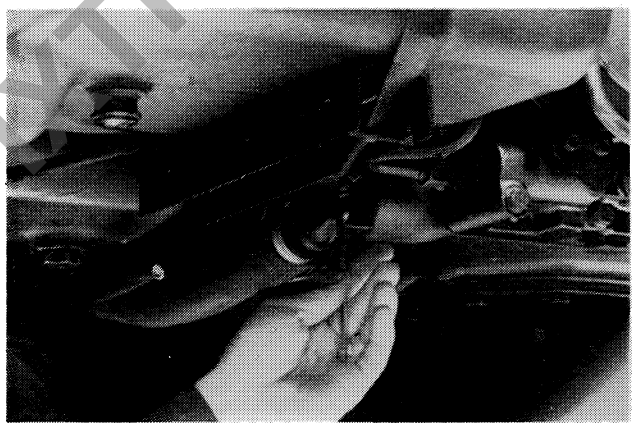
Remove the balance pipe shield bolts.

STEP 45



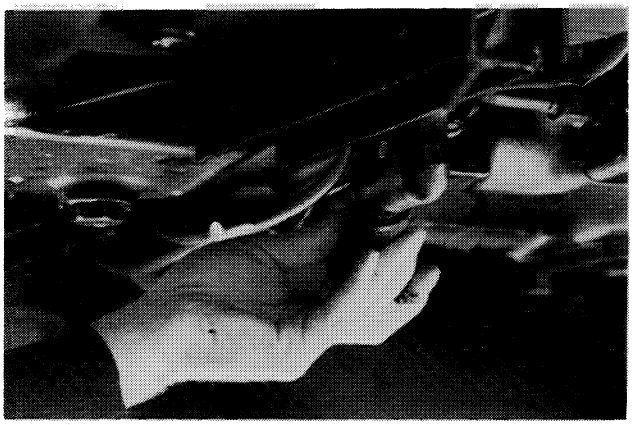
Remove the shield.

STEP 46



Loosen the balance pipe hose clip.

STEP 47

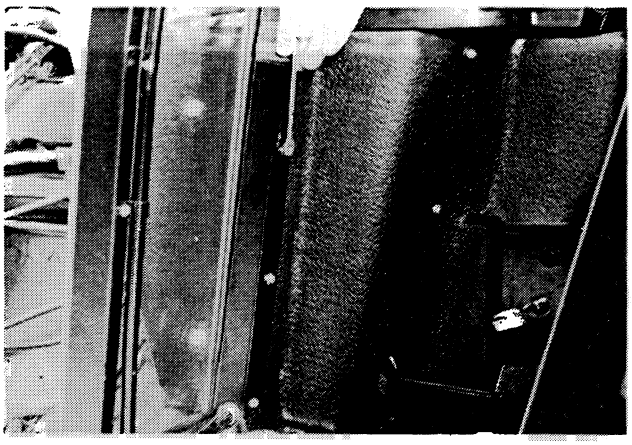


Remove the balance pipe from the tank.

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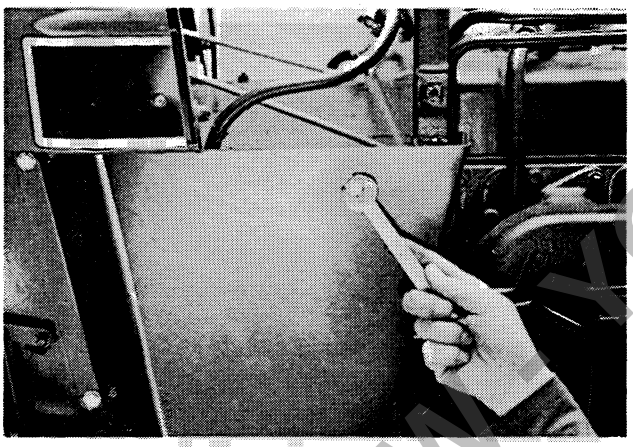
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STEP 12 Tractors With L Cab



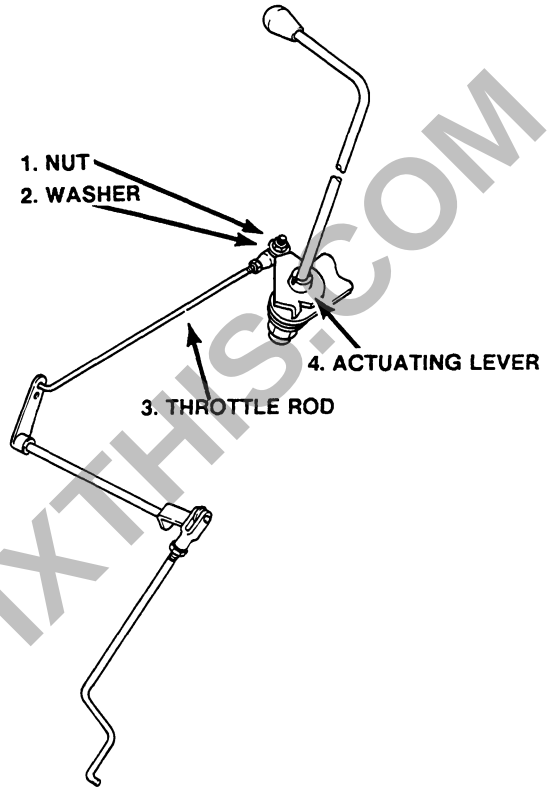
Remove the setscrews and plate from the insulation on the bottom of the steering support. Move the insulation to have access to the bottom of the throttle lever.

STEP 13 Tractors Without Cab



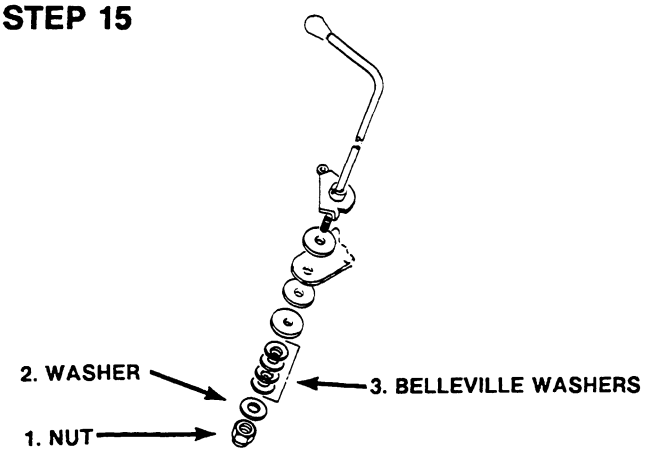
Remove the three setscrews from the right hand side panel. Remove the side panel to have access to the bottom of the throttle lever.

STEP 14 All Tractors



Remove the nut and washer then pull the throttle rod clear of the actuating lever.

STEP 15



Remove the nut, washer and four Belleville washers from the bottom of the throttle lever.

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(Problem Continued)

Fault in hazard warning switch

5. Use the test lamp to check for voltage at the black with white sleeve lead wire terminal. If the test lamp does not illuminate, there is a fault in the wiring between the hazard warning switch and the fuse.

6. Check for voltage at the light green/pink lead wire terminal. If the test lamp illuminates, there is a fault in the flasher unit, combination arm switch or wiring. Replace the hazard warning switch if the test lamp does not illuminate.

Fault in flasher unit

7. Remove the cover from the front of the instrument panel to have access to the flasher unit. The flasher unit is on the right hand side of the clutch fluid reservoir.

8. Use the test lamp to check for voltage at the light green/pink lead wire terminal. If the test lamp does not illuminate, there is a fault in the wiring between the flasher unit and the hazard warning switch.

9. Check for voltage at the light green/brown lead wire terminal. The combination arm switch can be in any position for this check. If the test lamp illuminates, there is a fault in the combination arm switch or wiring.

(Continued on Next Page)

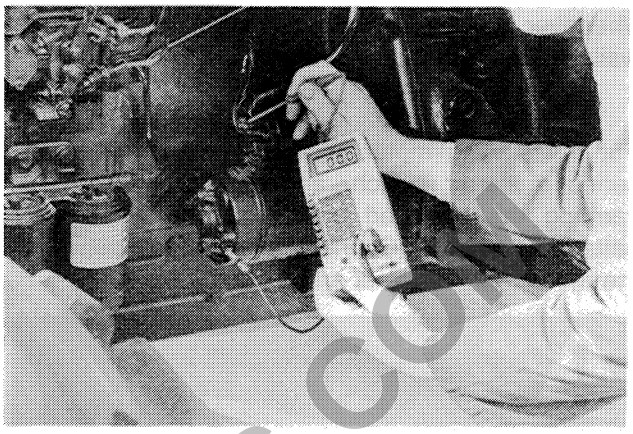
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Solenoid Switch

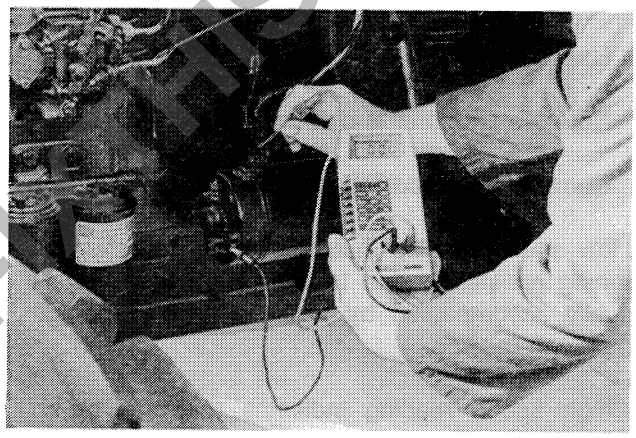
Connect a voltmeter between the battery terminal (30) and a good ground.



The voltmeter should read battery voltage.

A zero reading indicates a loose or corroded cable connection.

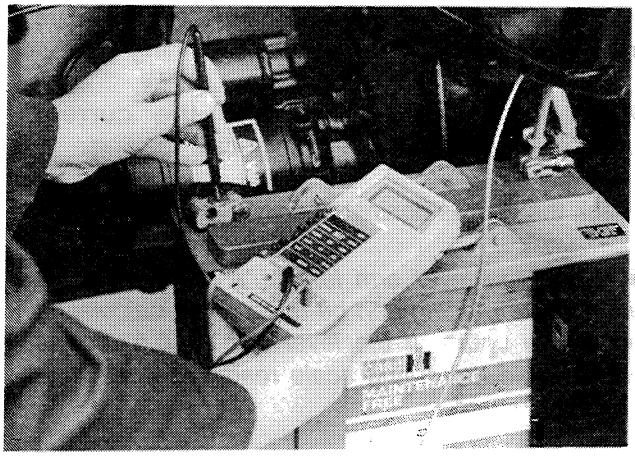
Connect the voltmeter between the motor terminal and a good ground. Press down the clutch pedal and turn the keyswitch fully clockwise to the starting position.



A zero voltmeter reading indicates a faulty holding or closing coil or a poor solenoid contact.

Motor

Connect a voltmeter across the battery terminals. Press down on the clutch pedal and turn the keyswitch fully clockwise to the starting position.



A voltage drop to approximately 9 volts, indicates that current is flowing to the motor. If the motor is not turning it must be disassembled for examination.

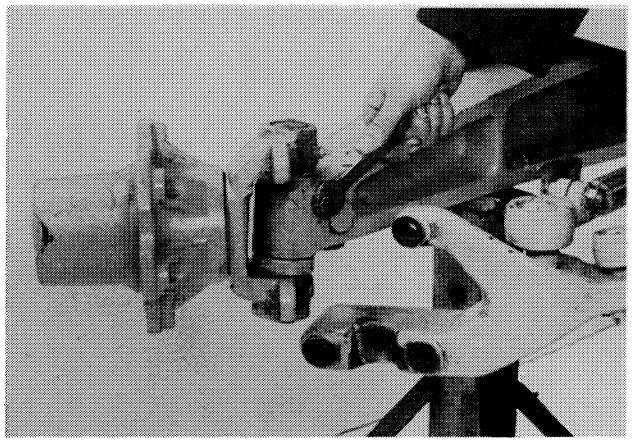
A small voltage drop, indicates that current is only flowing through the holding coil due either to a break in the electrical connections or a fault in the motor.

If the voltmeter records a voltage drop to below 6 volts and the motor turns very slowly, check the condition of the battery. If the battery is in good condition, slow rotation of the starter will probably be due to high resistances in the motor requiring disassembly for further testing.

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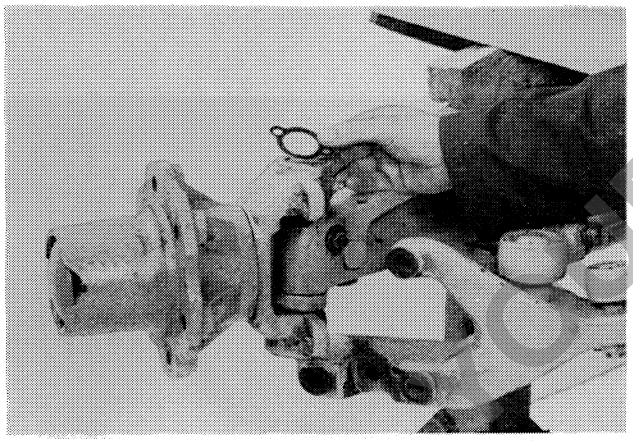
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STEP 81



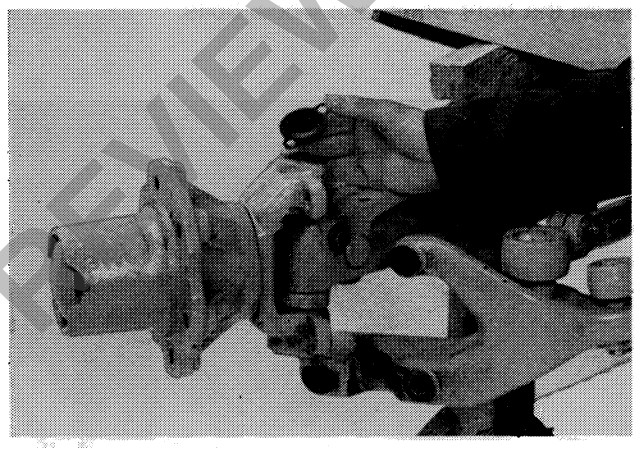
Install and tighten the nut and spring washer.

STEP 82



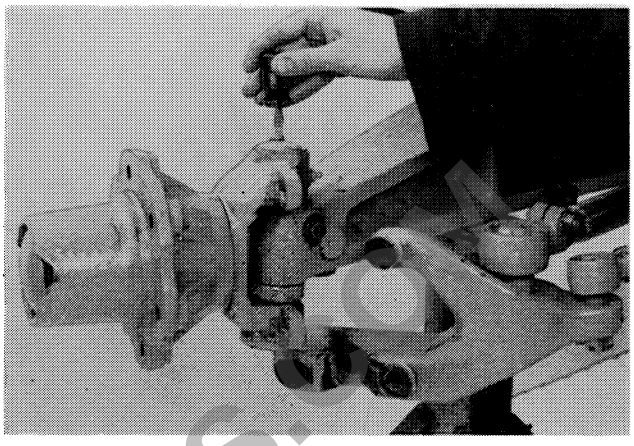
Put a new gasket onto the top of the stub axle.

STEP 83



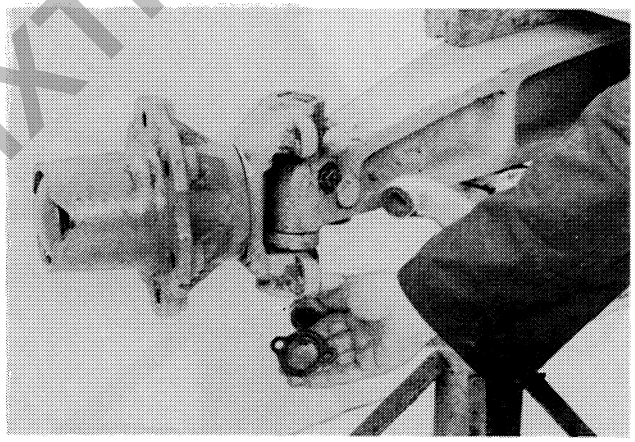
Install the top plate.

STEP 84



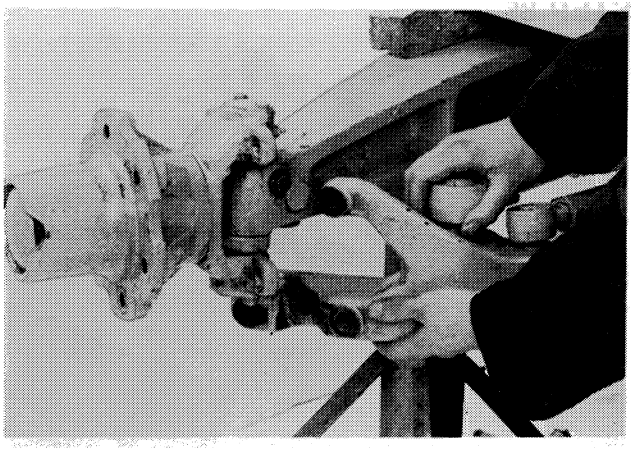
Install and evenly tighten the two screws and spring washers.

STEP 85



Repeat the procedure for the bottom plate.

STEP 86

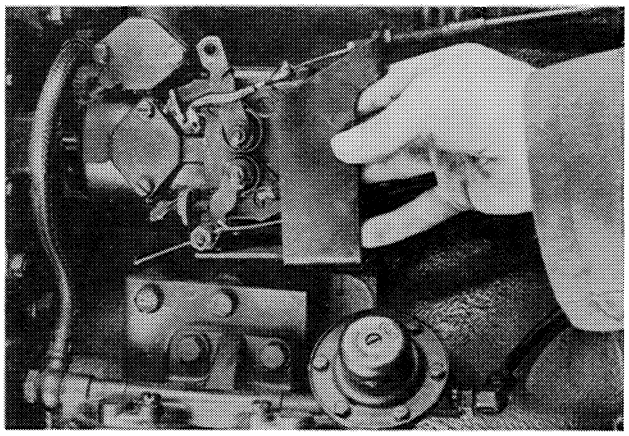


Move the steering arm into position on the stub axle.

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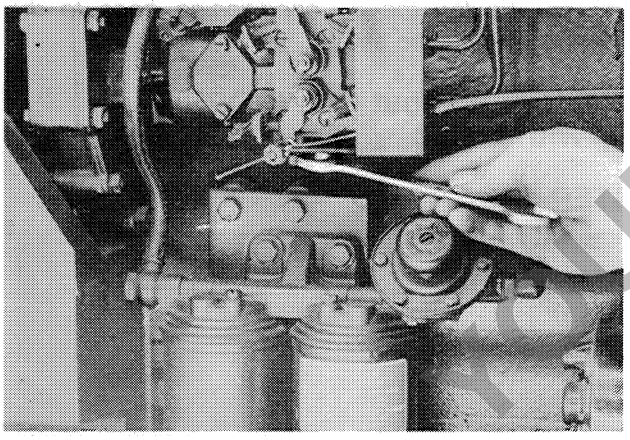
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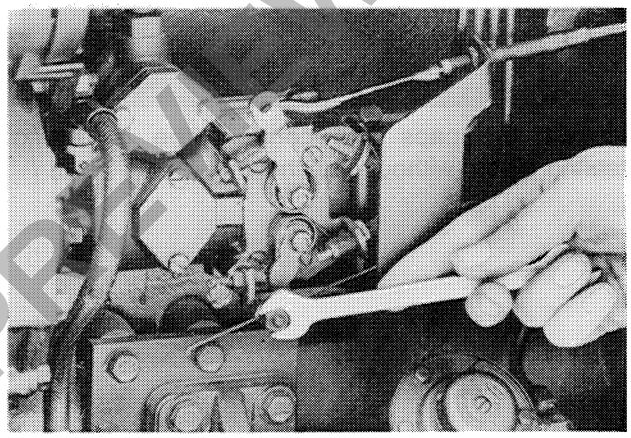
Install the throttle cable bracket.

STEP 188



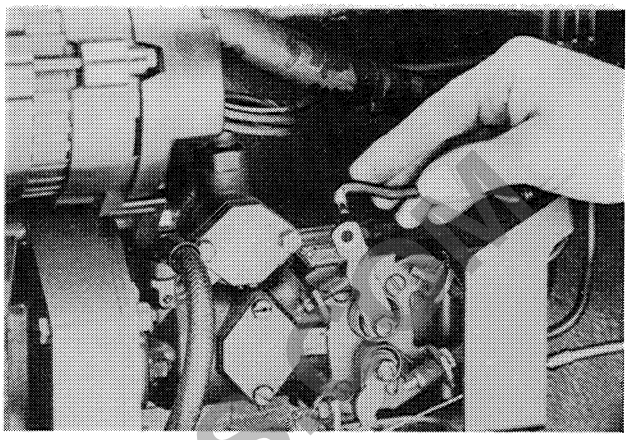
Install the bracket bolts and tighten.

STEP 189



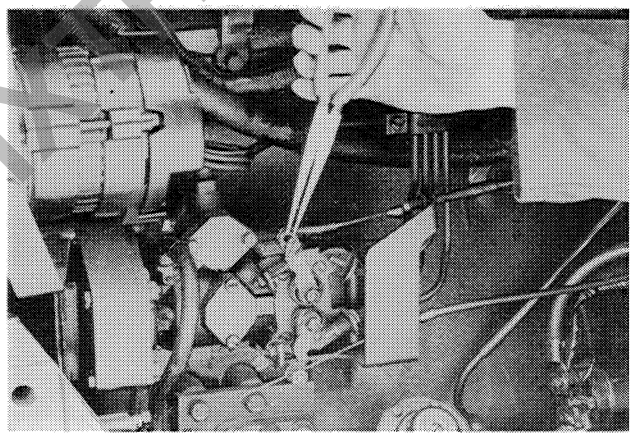
Tighten the clamping nut for the fuel stop cable.

STEP 190



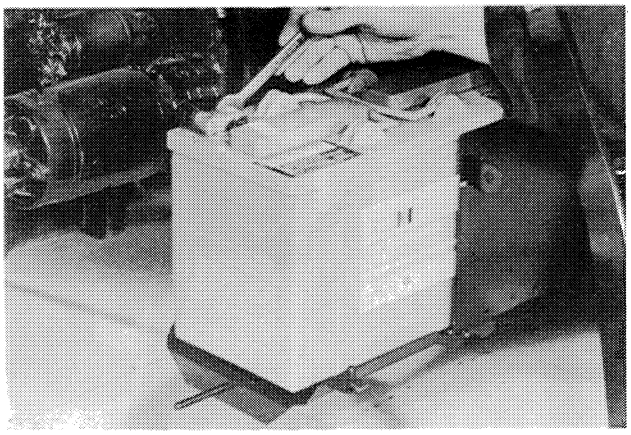
Install the throttle cable.

STEP 191



Install the washer and a new split pin.

STEP 192

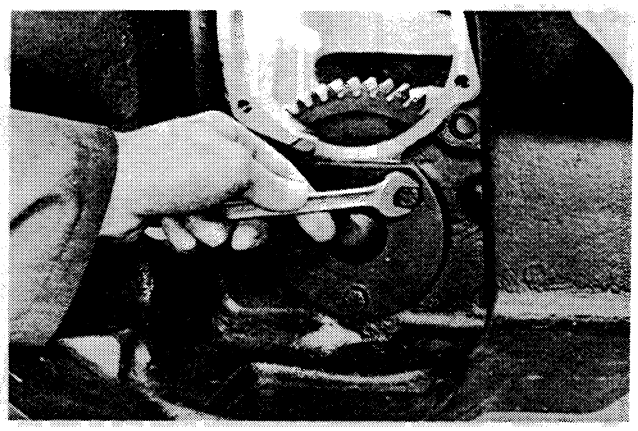


Install the battery positive (+) and then the negative (-) battery terminals. Slide the battery in.

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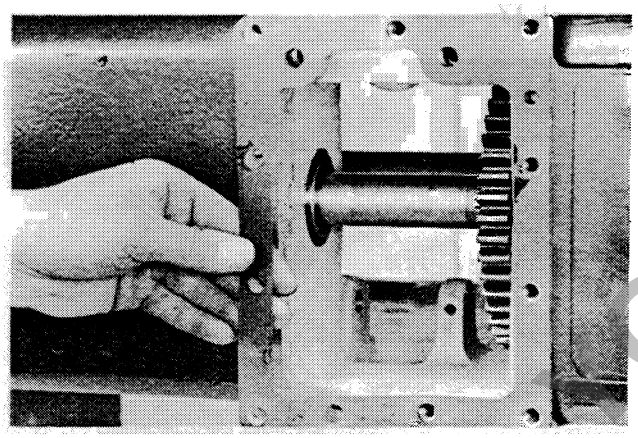
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STEP 49



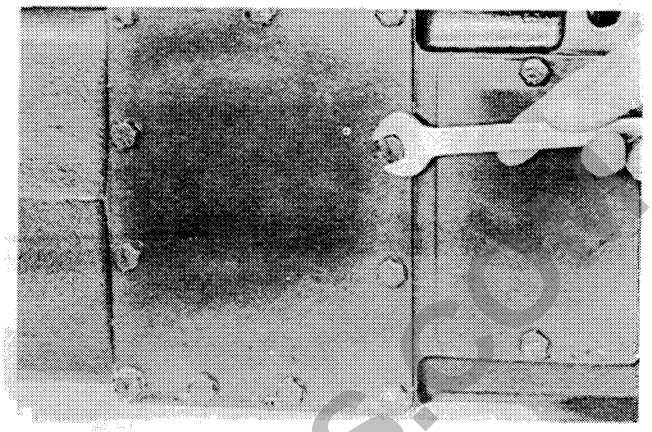
Install and tighten the bolts.

STEP 50



Install a new bottom cover gasket.

STEP 51



Install the cover and tighten the bolts.

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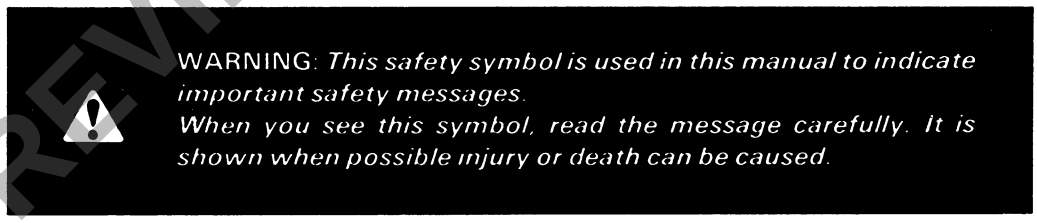
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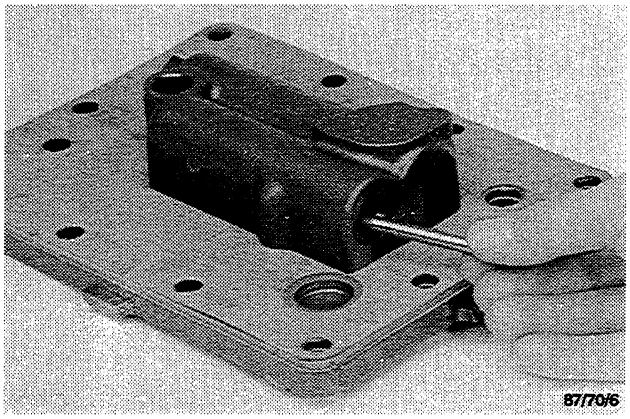
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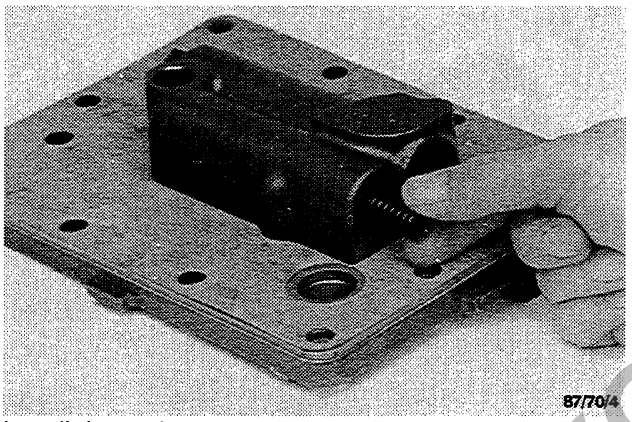
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STEP 19



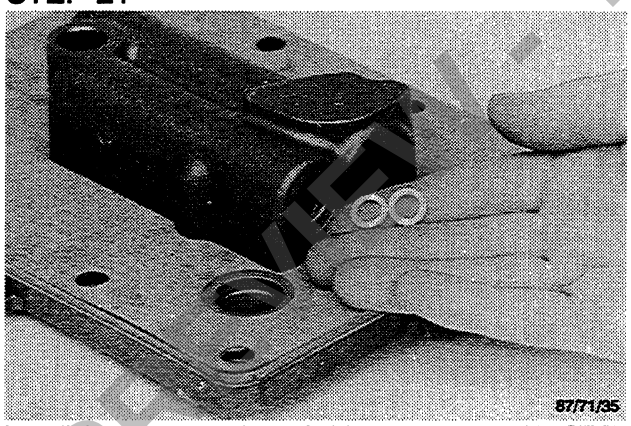
Install the pin.

STEP 20



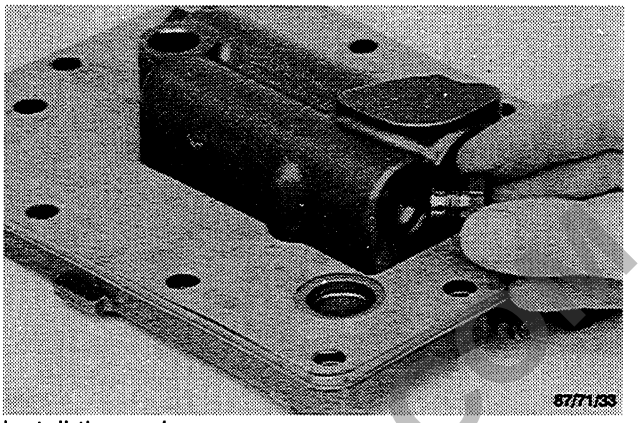
Install the spring.

STEP 21



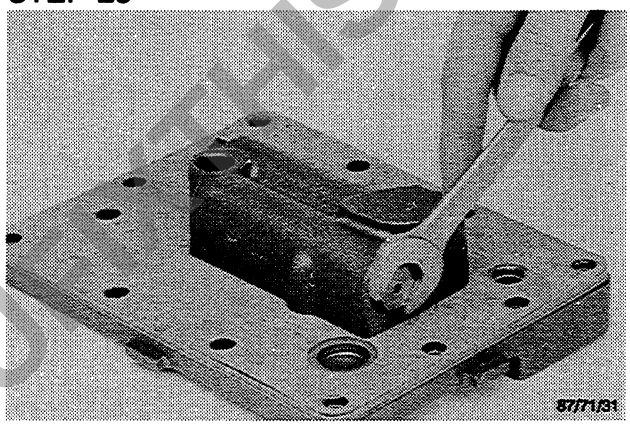
Install the same number of shims as removed in STEP 3.

STEP 22



Install the end cap.

STEP 23

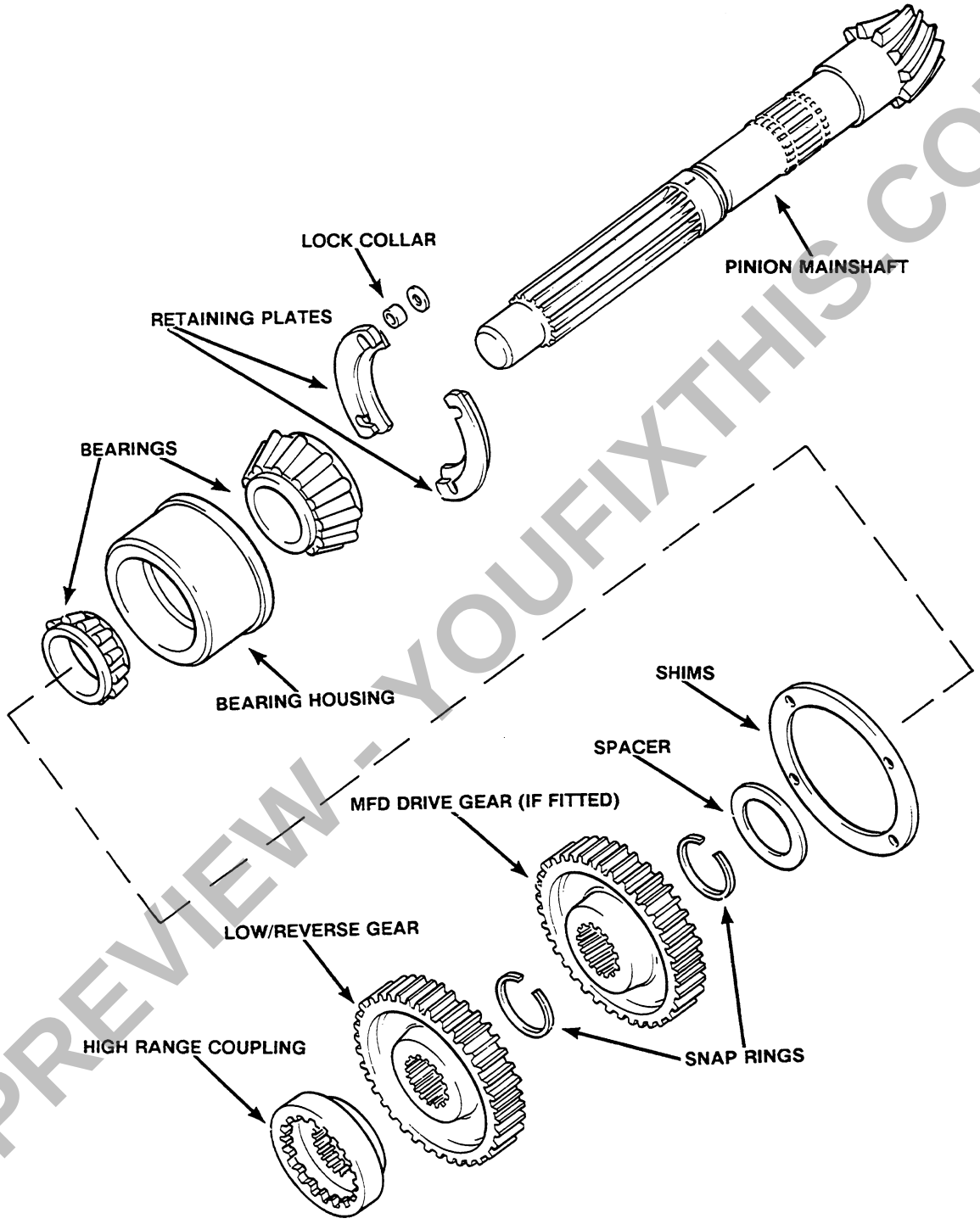


Tighten the end cap.

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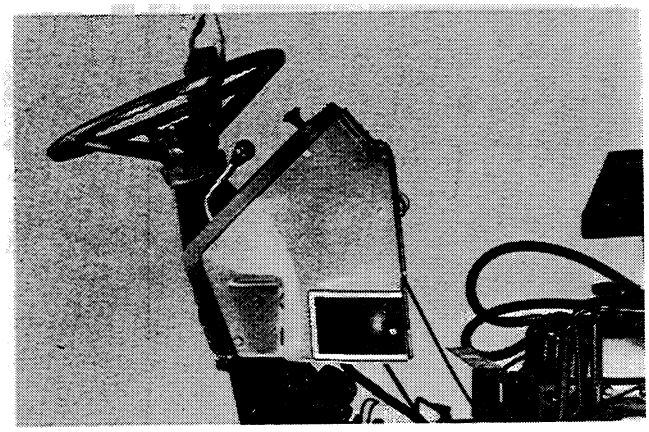
PINION MAINSHAFT



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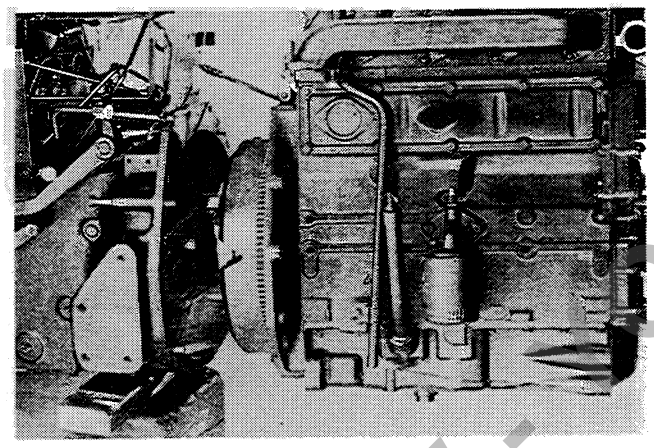
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STEP 93



Install the steering support assembly, see section 6306.

STEP 94

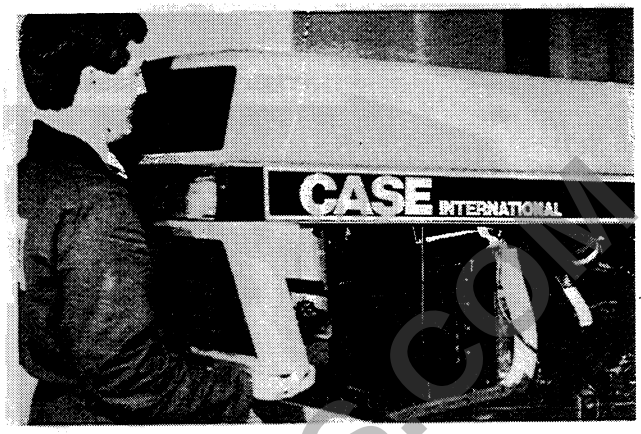


Install the engine, see section 2410.

STEP 95

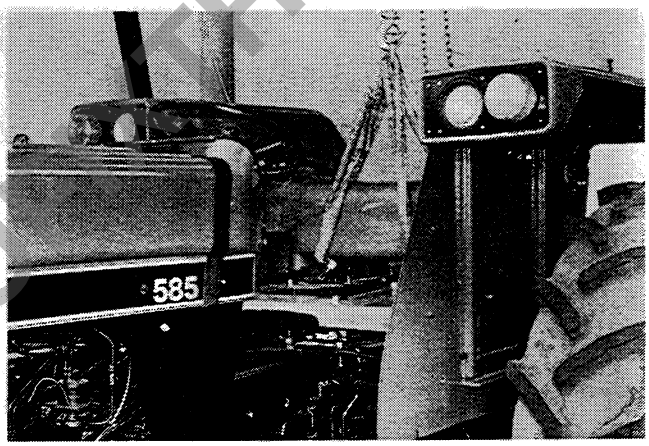
Install correct amount and grade of transmission oil. See Operator Manual.

STEP 96



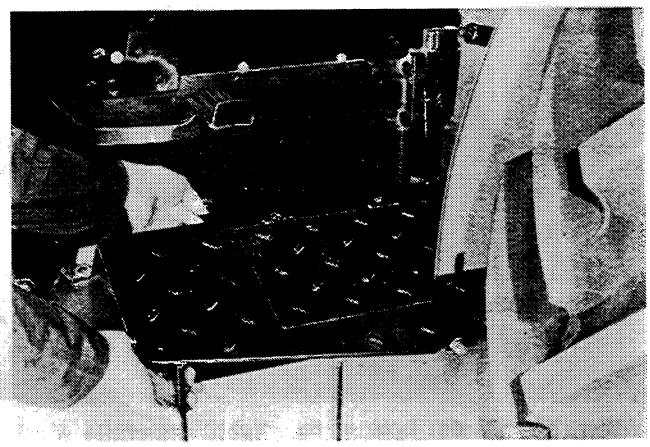
Install the hoodsheet, see section 9240.

STEP 97



Install the fenders, fuel tank and seat deck, see section 9240.

STEP 98

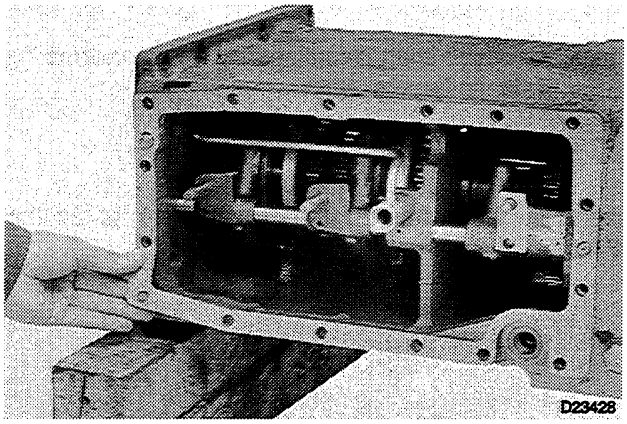


Install the footplates, see section 9240.

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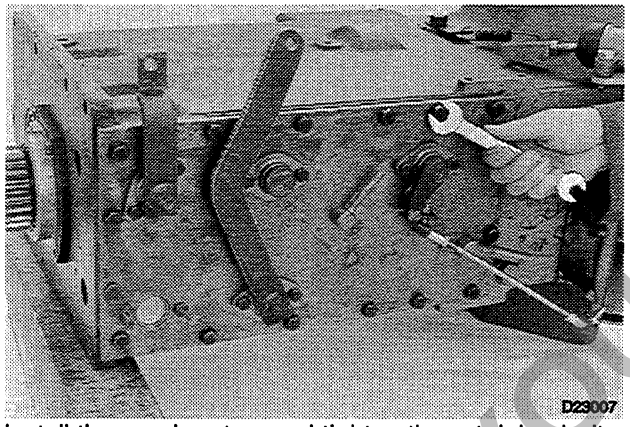
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STEP 31



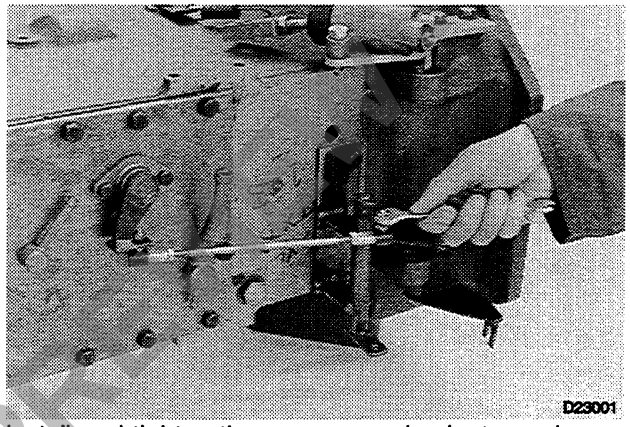
Install a new gasket to the gearbox top.

STEP 32



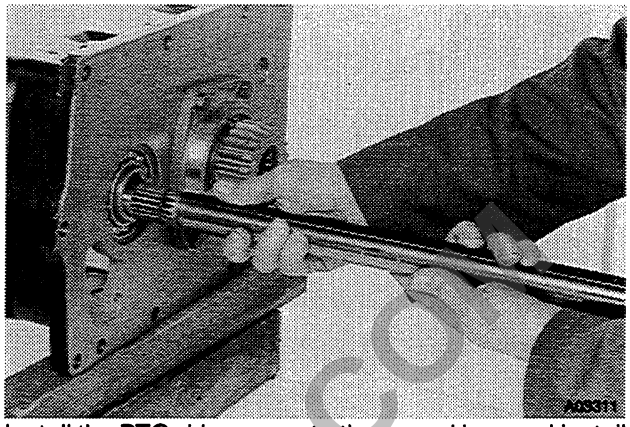
Install the gearbox top and tighten the retaining bolts.

STEP 33



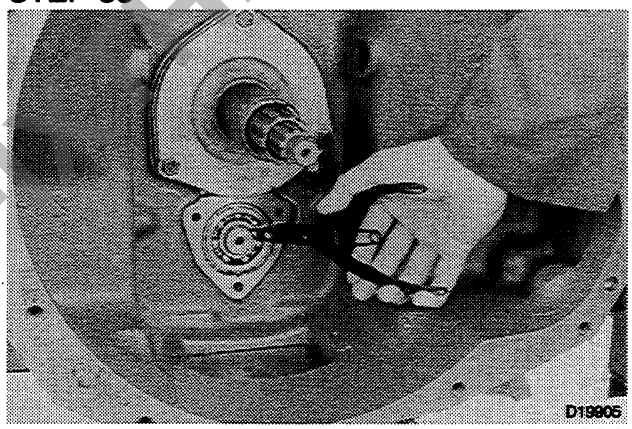
Install and tighten the creep speed selector rod.

STEP 34



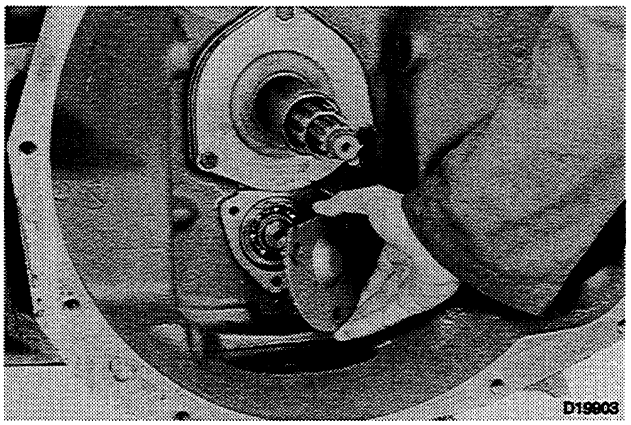
Install the PTO driven gear to the speed box and install the PTO drive shaft into the speed box through the PTO driven gear.

STEP 35



Install the bearing and the retaining ring onto the PTO drive shaft.

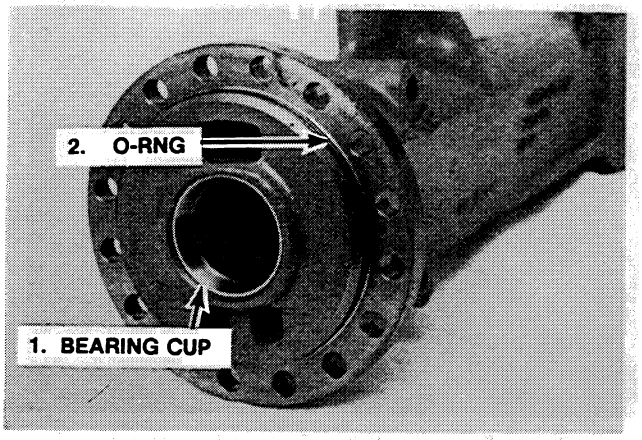
STEP 36



Apply gasket eliminator B17555 (Loctite 515) to the end cover and install the end cover.

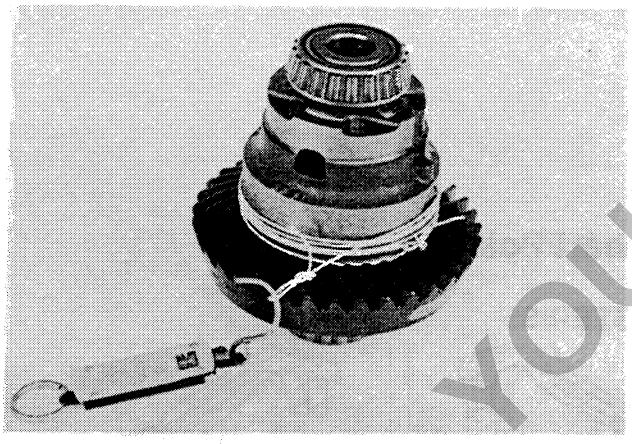
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STEP 77



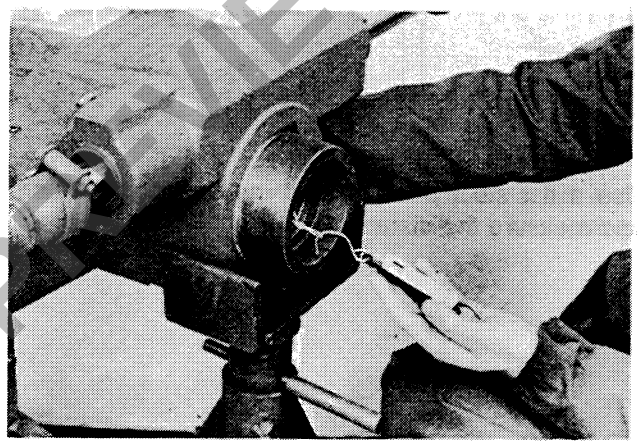
Install the bearing cup and the o-ring.

STEP 78



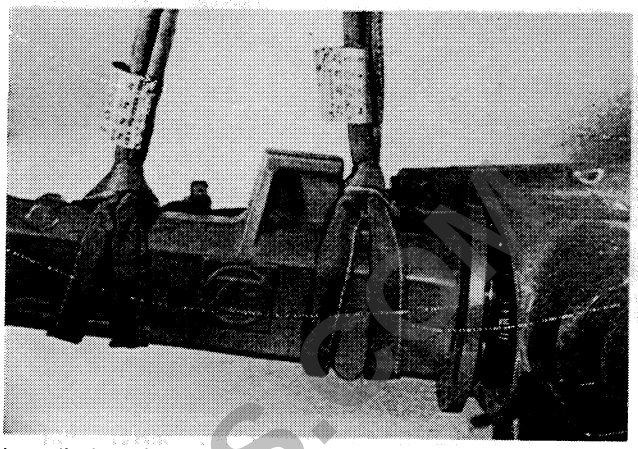
Fasten a piece of string to the differential and wrap round several times. Fasten a spring balance to the free end of the string.

STEP 79



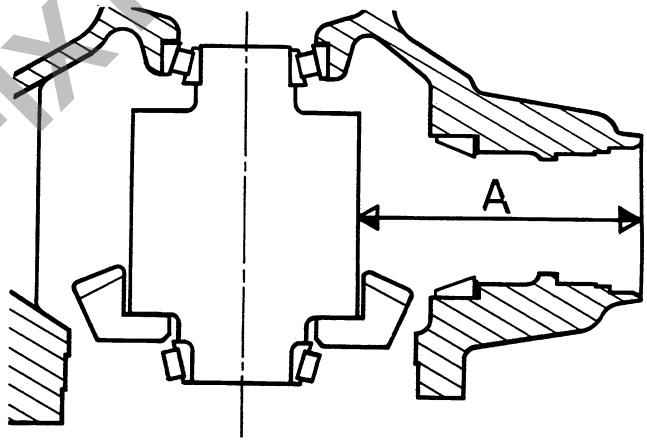
Install the differential with the spring balance through the drive pinion shaft bore in the housing.

STEP 80



Install the right hand axle housing using only four bolts at 90° to each other and tightened to the correct torque of 60 to 70 Nm (44 to 52 lb ft).

STEP 81



Measure the distance 'A'.

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Section 6485

MECHANICAL FRONT DRIVE DRIVE SHAFT

85 Series MFD Tractors

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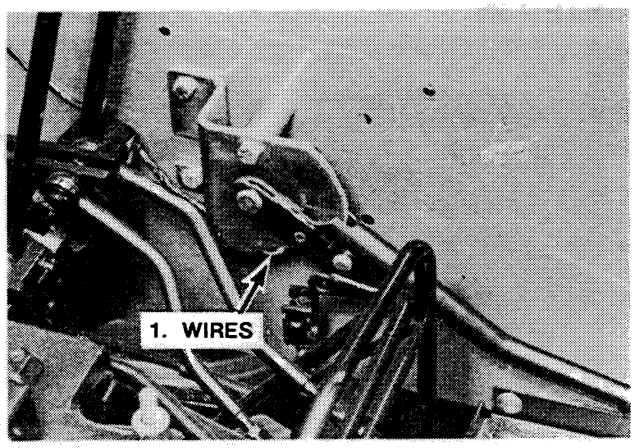
CASE CORPORATION

Pub 8-57390

Printed in England
December, 1986

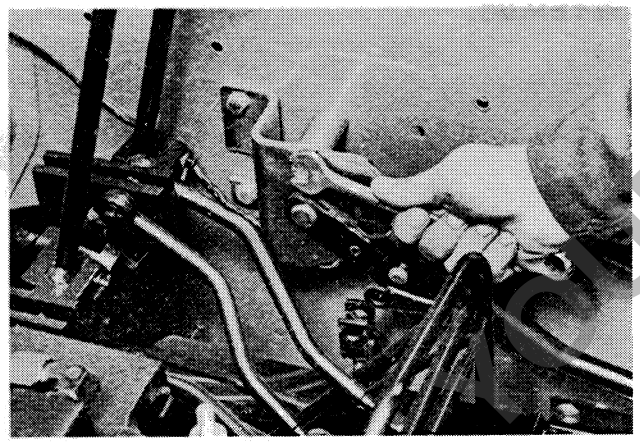
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STEP 17



Disconnect the warning switch wires.

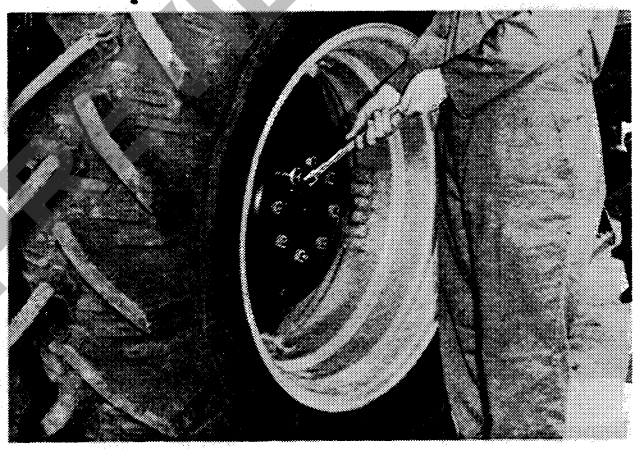
STEP 18



Remove the three nuts, washers and bolts and remove the lever assembly.

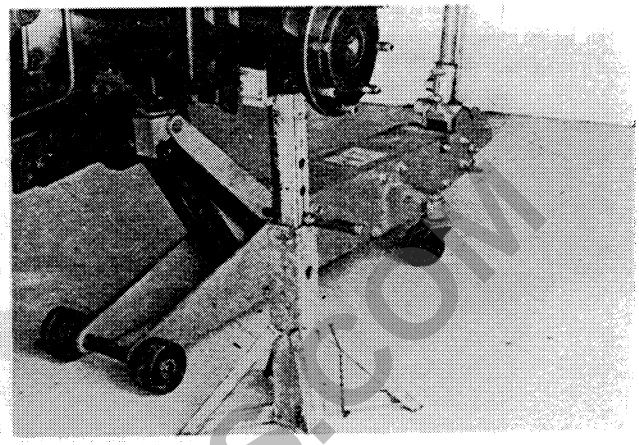
Tractors With XL And L Cab

STEP 19



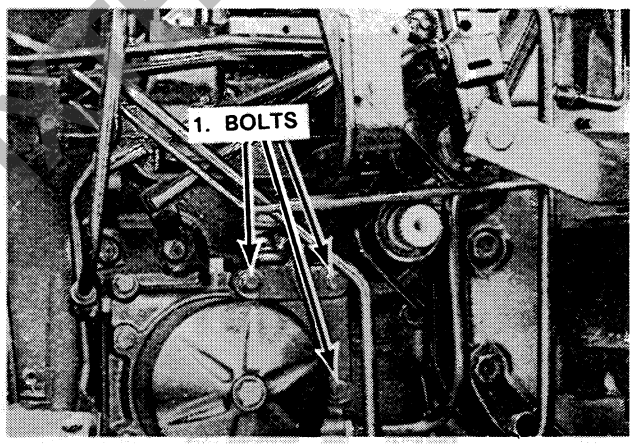
Use a jack to raise the left hand rear wheel. Remove the wheel nuts and rear wheel assembly.

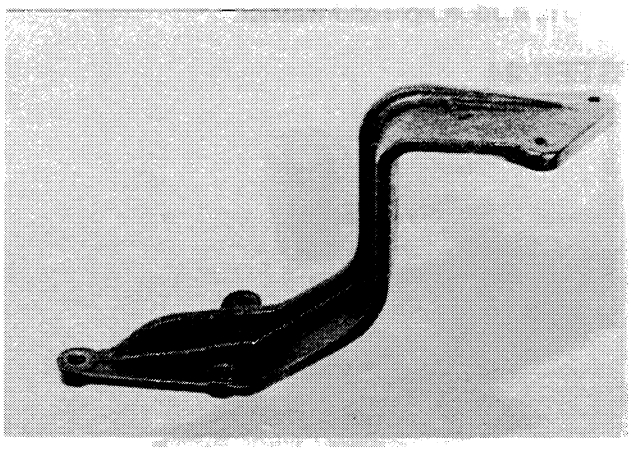
STEP 20



Support the tractor on an axle stand.

STEP 21





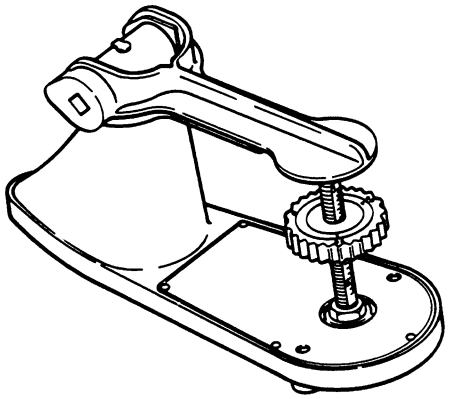
Remove the three bolts and remove the lever support bracket.

NOTE: *For the purpose of photography the actuating arm and some pipes have been removed.*

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STEP 142



Check the springs for the I.P.T.O control valve with a spring compression tester. The springs must have the following specifications.

HEAVY SPRING

Free length . . . . . .1.487 inch (37.77 mm)
O.D. . . . . .0.344 inch (8.74 mm)
Wire diameter . . . . . .0.054 inch (1.37 mm)
Number of coils 15.5
Compress to . . . . . .1.100 inch (27.94 mm)
14.41 lb (64.10 N)

LIGHT SPRING

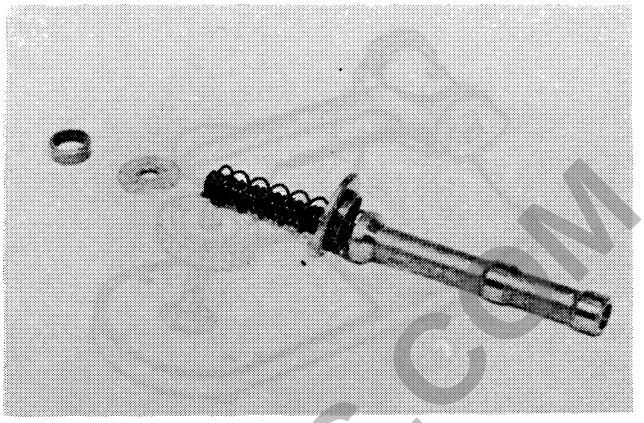
Free length . . . . . .1.850 inch (46.99 mm)
O.D. . . . . .0.500 inch(12.7 mm)
Wire diameter . . . . . .0.041 inch (1.04 mm)
Number of coils 9
Compress to . . . . . .1.812 inch (46.02 mm)
3.21 to 5.29 oz (91 to 150 gram)

STEP 143



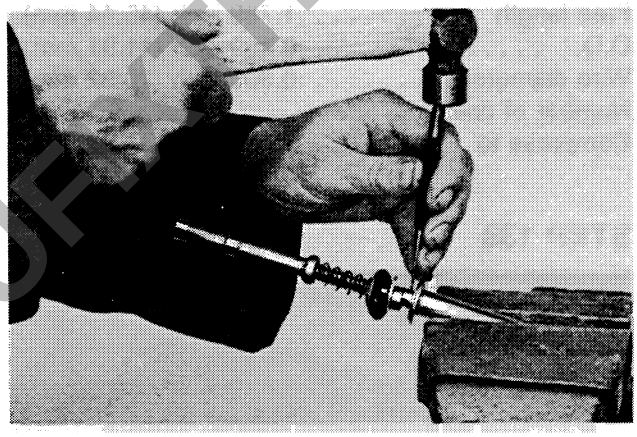
Install the spring retainer and the heavy and light valve springs onto the valve pin. Make sure that the large diameter of the retainer is towards the springs.

STEP 144



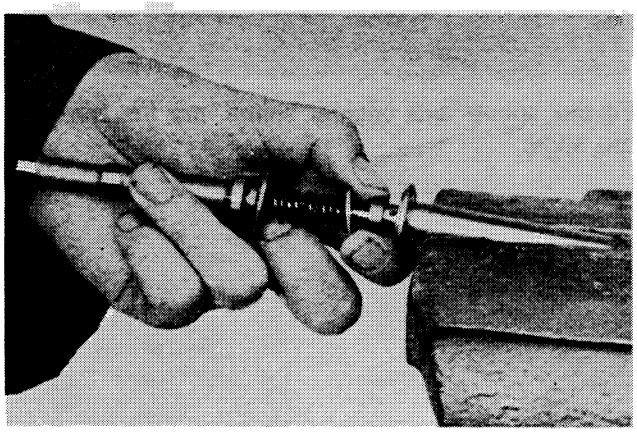
Install the washer and collar onto the valve pin.

STEP 145



Hold the valve stem in a vice fitted with soft jaw plates. Fit the valve pin into the valve stem. Align the holes then fit the small pin.

STEP 146



Push the collar onto the valve stem.

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Section 8030

DRAFT CYLINDER ASSEMBLY, ROCKSHAFT AND INTERNAL LINKAGE

85 Series Tractors

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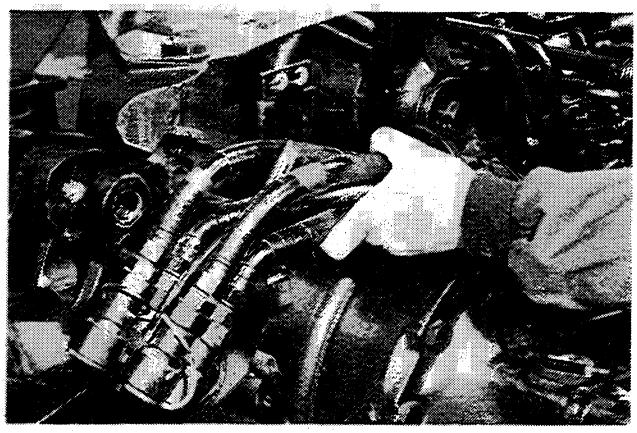
CASE CORPORATION

Pub 8-56900

Printed in England
December, 1986

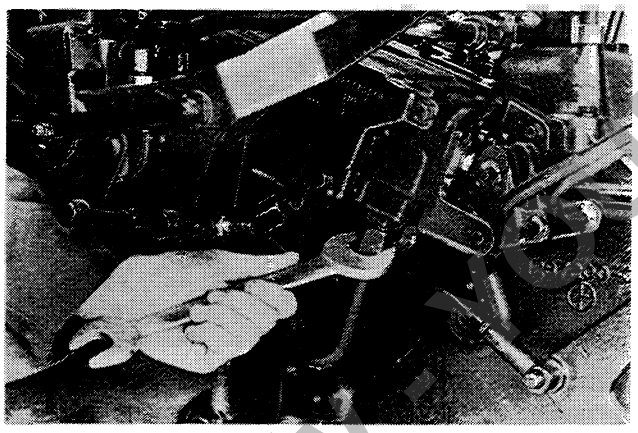
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STEP 6



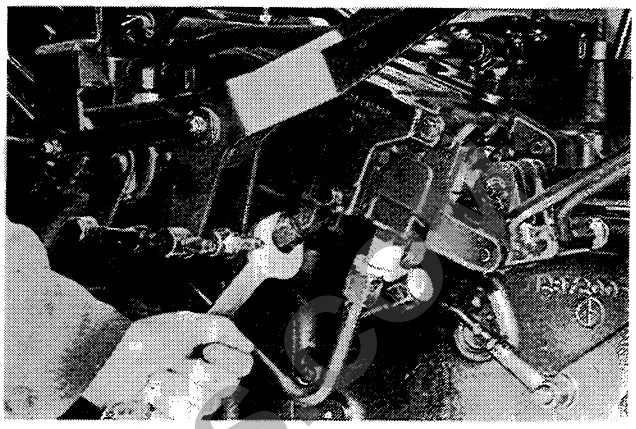
Move the remote pipes clear of the bracket. Go to STEP 12.

STEP 7 Tractors Fitted With Rigid And Flexible Remote Pipes



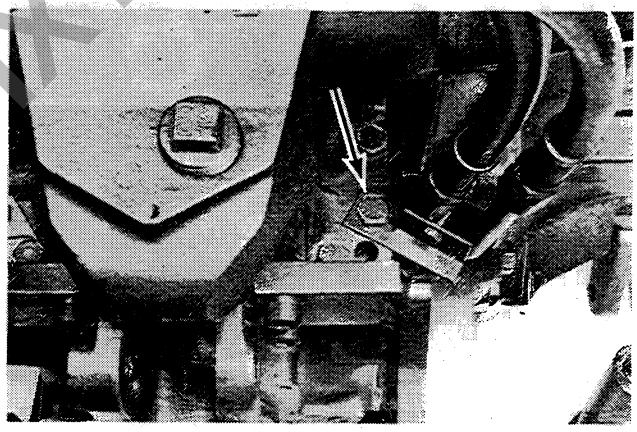
Put a container under the auxiliary valves. Disconnect the remote pipe from the 'raise' port on both auxiliary valves. Fit caps onto the pipes and valves.

STEP 8



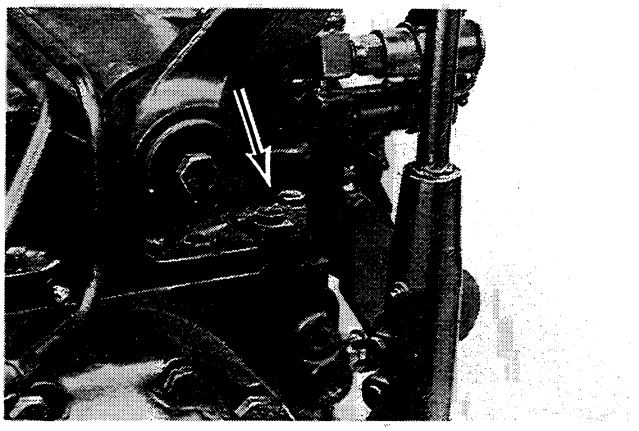
Disconnect the remote pipe from the 'lower' port on both auxiliary valves. Fit caps onto the pipes and valves.

STEP 9



Remove the bolt from the right-hand remote pipes bracket.

STEP 10



Remove the two bolts from the quick couplers bracket.

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MANIFOLD GAUGE SET INSTALLATION

The following procedures shows the use of the manifold gauge set on the charging station used in Section 9225.

STEP 1



Put the tractor on level gound and engage the parking brake.

STEP 2



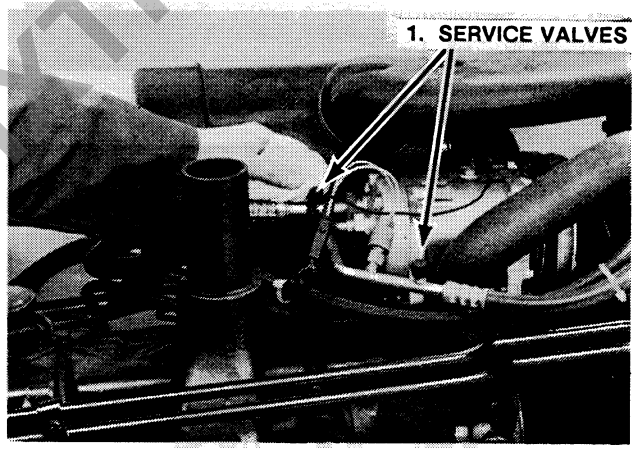
Put blocks infront of and behind the rear wheels.

STEP 3



Remove the hood. Refer to Section 9240.

STEP 4



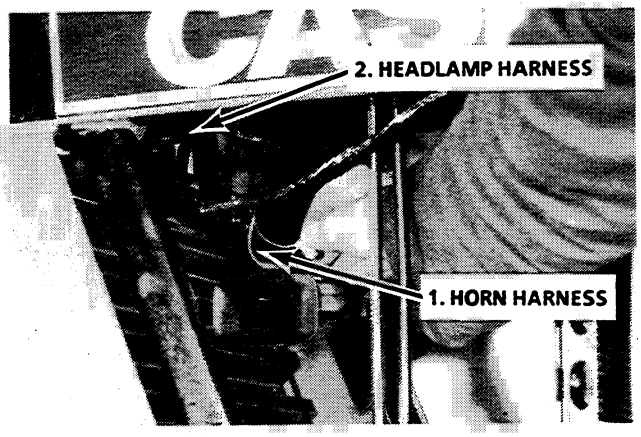
Clean any dirt from and around the two service valves on the suction and discharge hose near the compressor.

WARNING: *DO NOT use steam to clean any part of the air conditioner system while the system is charged. The heat will cause the refrigerant to rise to a pressure that can cause the system to explode.*

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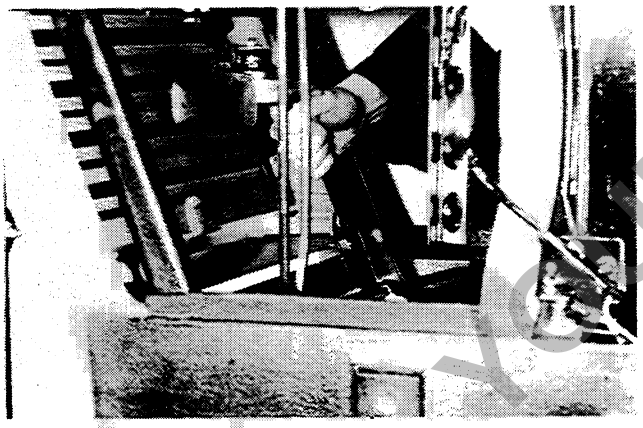
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STEP 11



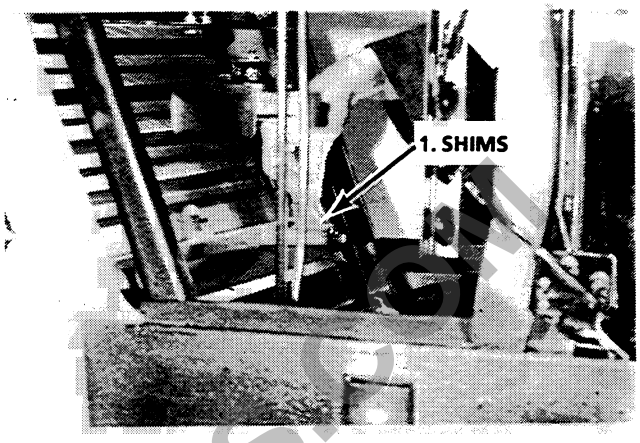
Disconnect the horn and headlight leads.

STEP 12



Remove the front grille mounting nuts.

STEP 13



Remove the shims from the bottom grille mountings.

IMPORTANT: *Take note of the number of shims on each mounting.*

STEP 14



Remove the hoodsheet and front grille assembly.

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