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4994 TRACTOR

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Reprinted

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Section 1210

GENERAL SPECIFICATIONS

Written In *Clear
And
Simple
English*

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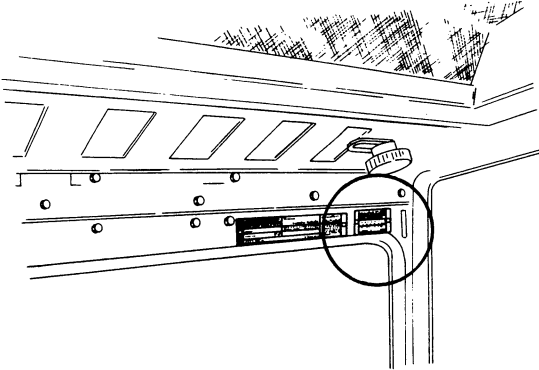
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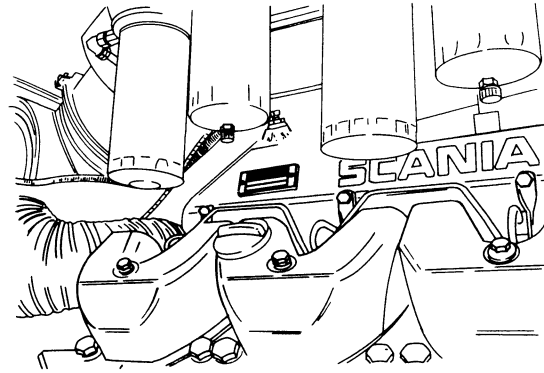
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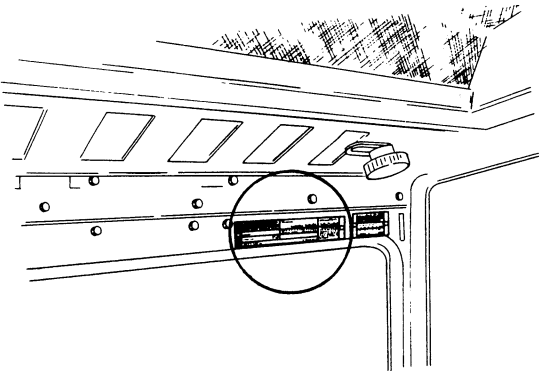
SERIAL NUMBERS



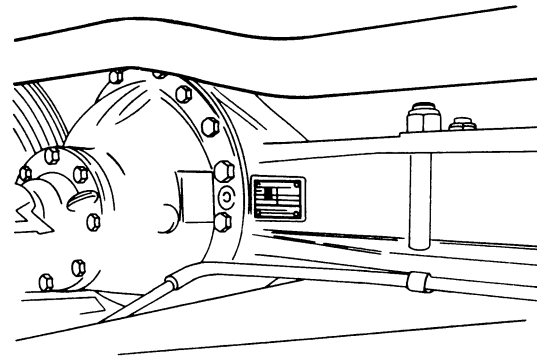
MODEL AND PRODUCT IDENTIFICATION NUMBER PLATE



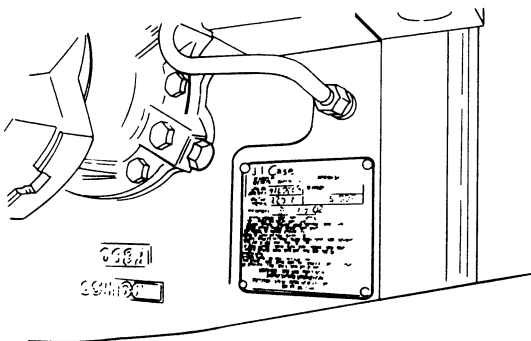
ENGINE SERIAL NUMBER PLATE



CAB SERIAL NUMBER PLATE



AXLE SERIAL NUMBER PLATE (Front and Rear)



TRANSMISSION SERIAL NUMBER PLATE

Engine Lubrication System

Oil Pressure	65 to 87 PSI (448 to 600 kPa)(4.5 to 6.0 bar) with Engine Warm and Operating at Rated Speed.
Type System	Pressure and Spray
Oil Pump	Gear Type
Oil Cleaning	Oil Cleaned Continuously by Separation in Centrifugal Type Oil Cleaner.
Oil Capacity	27 U.S. Quarts (25.5 litres)
Oil Cooler	Engine Oil Water Cooling
Turbocharger Oil Filter	Full Flow Turn On Type
Pistons	Gallery Cooled

Fuel System

Fuel Injection Pump	Robert Bosch, Multiple Plunger
Pump Timing	18 Degrees (BTC) Before Top Center.
Fuel Injectors	Robert Bosch, 21 mm.
Fuel Transport Pump	Plunger Type, a Part of the Fuel Injection Pump
Governor	Variable Speed, Part of the Fuel Injection Pump
Primary Fuel Filter (Two Per Tractor)	Full Flow, Turn on Type
Secondary Fuel Filter (Two Per Tractor)	Full Flow, Turn on Type
Water Trap and Drain For Fuel Tanks	Location is on the side at the Bottom of Each Fuel Tank
Fuel Tank Capacity	150 U.S. Gallons (568 litres) Each Tank, 300 U.S. Gallons (1136 Litres) Total
Fuel Level Gauge	LCD Bar Indicator, Location is on Instrument Cluster
Hand Primer Pump	Location is on the Injector Pump
Fuel Strainer	Location is on Front RH side of Engine
Electric Transfer Pump	Location is on RH Fuel Tank
Electric Primer Switch	Location is on Fuel Filter Bracket

GENERAL TRACTOR SPECIFICATIONS

Air Intake System

Type Dry Type Air Induction System, Two Stage with Service Monitor, Strata Tube.

Cooling System

Capacity 88 U.S. Quarts (83.3 litres)
 Type Pressure System, Thermostat Controlled, Bypass Centrifugal Type Pump
 Radiator Heavy Duty Fin and Tube Type
 Thermostats (2) Start to Open at Approximately 167°F (75 °C), Fully Open at 202°F (94°C)
 Pressure Cap 10 PSI (69 kPa)(6.9 bar) No Vent
 Coolant Level Water Level Service Monitor on Instrument Cluster
 Coolant Temperature LCD Bar Indicator on Instrument Cluster

Electrical System

Type of System 12 volt, Negative Ground
 Batteries Two 12 Volt Batteries Connected in Parallel, AABM Group Size 30H, Rated in 1.255 to 1.265 Specific Gravity. Discharge Rate 300 Amperes at 0°F.
 Alternator 12 Volt, 105 Ampere Output, Negative Ground
 Voltage Regulator 12 Volt, Solid State, Inside Component of Alternator
 Starting Motor 12 Volt with Solenoid Switch
 Head Lamps (2) 12 Volt, 40/60 Watt Sealed Beam High-Low
 Front Flood Lamps (4 Max.) 12 Volt, 50 Watt, Halogen Sealed Beam
 Rear Flood Lamps (6 Max.) 12 Volt, 50 Watt, Halogen Sealed Beam
 Flasher Lamps with Direction Turn Signals (2) 12 Volt, Amber Lens
 Tail Lamps (2) 12 Volt, Red Lens
 Electrical System Circuit Breakers
 Primary Circuit 12 Volt, Three 50 Ampere Circuit Breakers Connected in Parallel, 150 Ampere Rating, 112.5 Ampere Minimum Continuous Capacity.
 Auxiliary Circuit 12 Volt, Four 50 Ampere Circuit Breakers

Electrical System

Bulb and Lamp Replacement:

Instrument Cluster Lamps	No. 73
Dome Lamp Bulb	No. 93
Console Lamp Bulb	No. 194
Flasher Lamp Bulbs	No. 1156
Head Lamps	No. 4652
Front and Rear Flood Lamps	No. A48265
Tail Lamp Bulbs	No. 168

Fuse Replacement:

Instrumentation	3.0 Ampere
Shutdown Solenoid	25 Ampere
Tail Lamp	15 Ampere
Lamp Switch Feed	25 Ampere
Accessories	3.0 Ampere
Switch Controls	10 Ampere
Head Lamp Low Beam	15 Ampere
Head Lamp High Beam	15 Ampere
Front Flood Lamps	25 Ampere
Radio and Night Lamp	10 Ampere
Ignition Switch	15 Ampere
Flasher and Dome Lamp	15 Ampere
Rear Flood Lamps	25 Ampere
Wiper	7.5 Ampere
Blower	15 Ampere
Cigarette Lighter	15 Ampere
Transmission/Steering Controller	7.5 Ampere
Hitch Controller (If Equipped)	5.0 Ampere
Fuel Pump and Accessory Power Line	7.5 Ampere
Cluster	5.0 Ampere

Tractor Brakes

Type	Single Disc, Dual Caliper, Hydraulic Actuated, Self-Adjusting.
Fluid Type	SAE J1703 (DOT 3)

Parking Brake

Type	Cable Actuated by over center Type Handle Adjustable from Operators Seat.
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Power Shift Transmission

Type	Full Range Power Shift, Electrically Controlled, Hydraulically Actuated Clutches with a Modulated Inching Clutch
Speed Selection	12 Speeds Forward, 2 Speeds Reverse
Shift Control	Single Hand Lever on Instrument Panel Electrically Activates Micro-Processor
Oil Cooler	Transmission
Oil Type	Case Powergard PTF
Oil Refill Capacity (With PTO)	*63 U.S. Quarts (59.6 litres)
(Without PTO)	*59 U.S. Quarts (55.8 litres)

*Includes 8 Quarts (7.6 litres) For Filter Change.

Hydrostatic Front Power Steering

Oil Supply	Hydraulic Pump, 20 gpm (75.7 litres/min) at 2100 RPM at 2000 PSI (13 790 kPa)(138 bar).
Relief Valve Pressure	2500 PSI (17 237 kPa)(172 bar)
Front Steering Cylinders	Two Cylinders with two way action
Steering Pump	Hydrostatic Type, Actuated by the steering wheel

Rear Power Steering

Oil Supply	Hydraulic Pump, 20 gpm (75.7 litres/min) at 2100 RPM at 2000 PSI (13 790 kPa)
Relief Valve Pressure	2500 PSI (17 237 kPa) (172 bar)
Rear Steering Cylinders	Two Cylinders with Two Way Action
Controls	Selective Steering with Automatic rear Steering with all Wheels Controlled by steering wheel or rear wheels Controlled by a hydraulic-electric servo system with three position selection switch and a toggle switch on operator console.

Axle Differential and Planetaries

Front and Rear	Spiral Bevel with Planetary Reduction in hub.
Planetary Oil Capacity	13.5 Quarts (12.8 litres) Each Planetary
Differential Oil Capacity - Front	17 Quarts (16 litres)
Differential Oil Capacity - Rear	22.5 Quarts (21.3 litres)

Remote Hydraulic System

Pump	Axial Piston Pump, Pressure and Flow Compensated
Type Remote Valve	Closed Center, Two to Four Sections, Hand Lever Control, Variable Flow Control for Each Section.
Pump Capacity at 2100 RPM	35 GPM (132.5 litres/min) at 2000 PSI (13 790 kPa)(137.9 bar).
Max System Pressure	2650 PSI (18 271 kPa)(182.7 bar)
Couplings	ASAE S366 Standard (Will Also Fit ISO Male Couplers), Fast Removal, Break Away Type
Hydraulic Charge Pump	35 GPM (132.5 litres/min) at 2100 RPM and 100 PSI (240 kPa)(2.4 bar).
Charge Circuit Relief Valve Pressure	35 PSI (241 kPa)(2.41 bar)
Oil Type	Case TCH
Oil Capacity	105 Quarts (99.4 litres)

Power Takeoff

Type Clutch	Hydraulic Actuated
Rotation	Clockwise
Spline Size	20 Splines, 1-3/4 inch (44.5 mm) Diameter
Engine Speed 2100 RPM	1000 RPM Shaft Speed

Drawbar

Standard or Yoke Type	Full Swing, Roller Mount, Takes a 2 inch (50.8 mm) Diameter Pin
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APPROXIMATE TRACTOR SPEEDS IN MPH AND KM/H AT 2100 RPM 12 Speed Power Shift Transmission

NOTE: This tractor is made to work constantly at the rated horsepower when the tractor speed is 5 MPH (8 km/h) and faster.

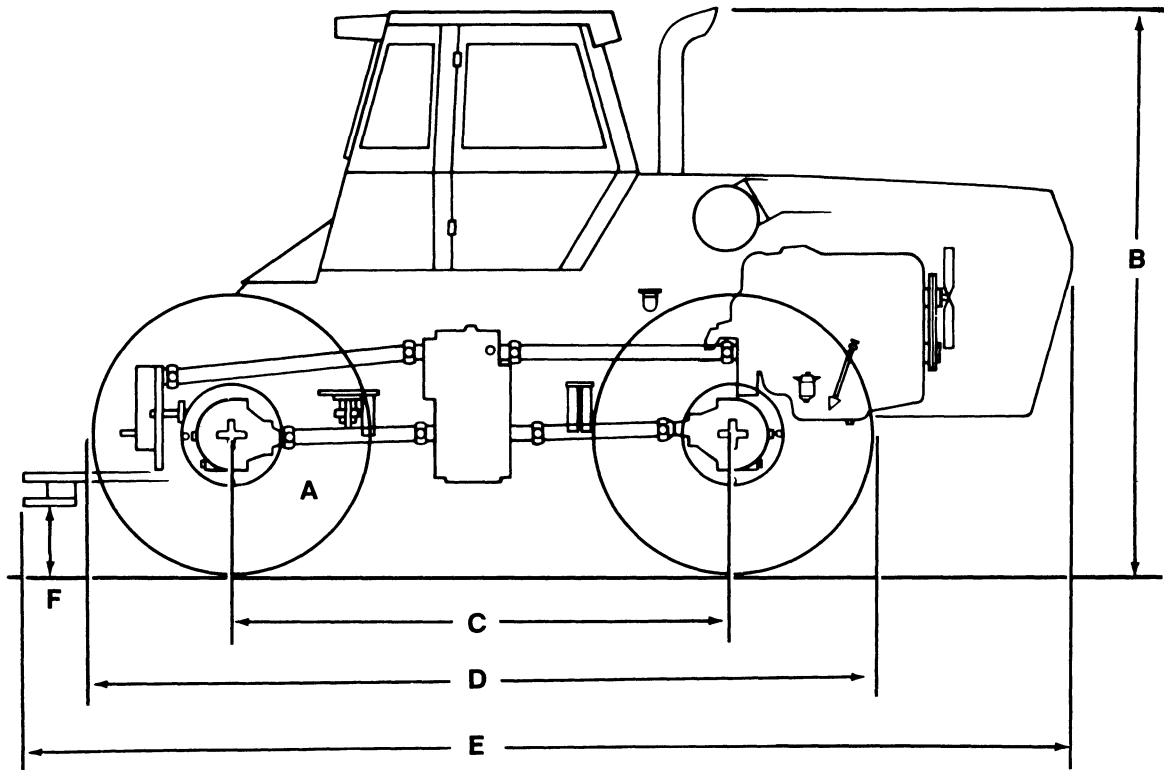
SPEED RANGE	TIRE SIZE									
	30.5 X 32		24.5 X 32		23.1 X 34		20.8 X 38		20.8 X 42	
	MPH	KM/H	MPH	KM/H	MPH	KM/H	MPH	KM/H	MPH	KM/H
1	2.5	4.0	2.5	4.0	2.5	4.0	2.6	4.2	2.7	4.3
2	3.0	4.8	3.0	4.8	3.0	4.8	3.1	5.0	3.3	5.3
3	3.6	5.8	3.6	5.8	3.5	5.6	3.7	6.0	3.9	6.3
4	4.3	6.9	4.3	6.9	4.3	6.9	4.4	7.1	4.7	7.6
5	5.2	8.4	5.1	8.2	5.1	8.2	5.3	8.5	5.6	9.0
6	6.1	9.8	6.1	9.8	6.1	9.8	6.3	10.1	6.7	10.8
7	7.2	11.6	7.2	11.6	7.1	11.4	7.4	11.9	7.9	12.7
8	8.6	13.8	8.6	13.8	8.6	13.8	8.9	14.3	9.4	15.1
9	10.2	16.4	10.1	16.3	10.1	16.3	10.5	16.9	11.1	17.9
10	12.3	19.8	12.2	19.6	12.1	19.5	12.6	20.3	13.4	21.6
11	14.8	23.8	14.7	23.6	14.6	23.5	15.2	24.5	16.1	25.9
12	17.5	28.2	17.4	28.0	17.3	27.8	17.9	28.8	19.1	30.7
REVERSE 1	3.2	5.1	3.2	5.1	3.1	5.0	3.3	5.3	3.5	5.6
REVERSE 2	5.4	8.7	5.4	8.7	5.4	8.7	5.6	9.0	5.9	9.5



CAUTION: Radial ply tires are much more flexible than bias ply tires. At higher speeds, the sideward flexing of radial tires can cause steering control difficulty. This problem is more severe with: (1) heavy loads carried on the three point hitch; and (2) single wheel installations as compared to dual wheel installations.

During transport, keep speed slow enough to maintain steering control.

APPROXIMATE MEASUREMENTS



A	TIRE 23.1-34 RI	C	124.8 Inches (3 170 mm)	E	261.8 Inches (6 650 mm)
B	138.5 Inches (3 518 mm)	D	195.9 Inches (4 976 mm)	F	14.5 Inches (368.3 mm)

Over All Width 120 Inches (3 048 mm)
 Turning Radius (Minimum) With 91 Inch (2 312 mm) Wheel Tread 212.2 Inches (5 390 mm)
 Rear Axle Oscillation (15 Degrees from Level) 30 Degrees Total

APPROXIMATE TRANSPORT WEIGHT

Approximate Tractor Weight Front 15,900 lbs (7 212 kg)
 With 23.1-34 Tires, PTO and Full Fuel Rear 10,600 lbs (4 808 kg)
 Total 26,500 lbs (12 020 kg)

IMPORTANT: *The total tractor weight with ballast and weights must never be more than 40,000 lbs (18 150 kg).*

OPERATORS CAB

THIS CASE OPERATORS CAB HAS ROLL OVER PROTECTION AS GIVEN IN ASAE STANDARDS S336.1 and S383, SAE STANDARDS J168a and J1194 AND OSHA REGULATIONS 1928.51 and 1928.53.

Section

2202

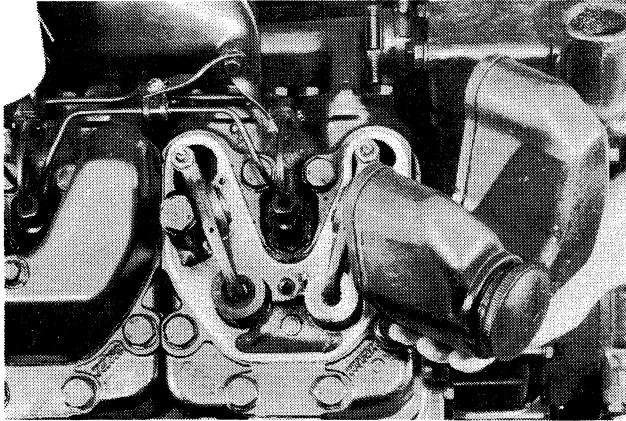
ENGINE TUNE-UP

866 Cubic Inch Diesel Engines

Written In *Clear
And
Simple
English*

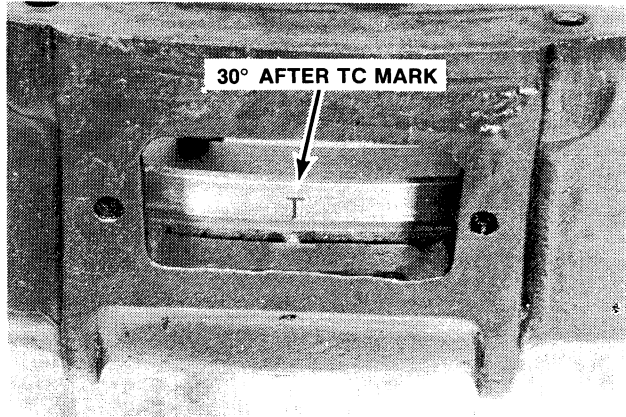
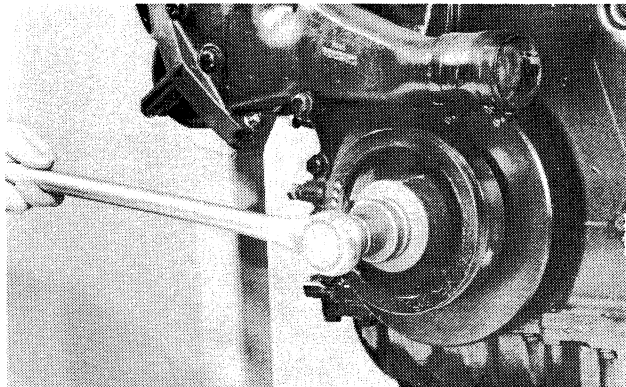
Adjusting Rocker Arm To Valve Clearance

STEP 1



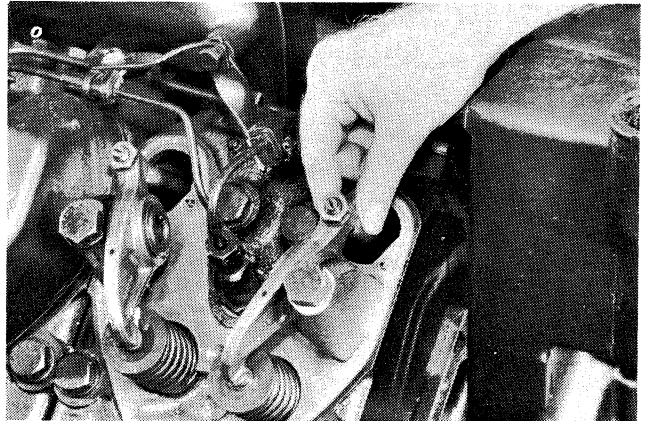
Remove the valve covers from the cylinder heads on both sides of the engine.

STEP 2



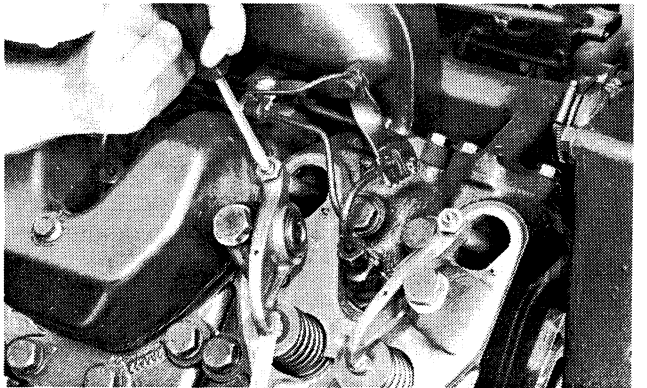
Turn the engine over clockwise until the 30° after TC mark on the flywheel aligns with the timing pointer.

STEP 3



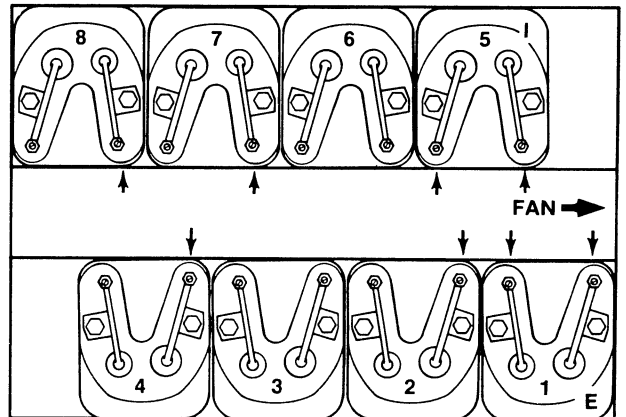
Check the push rods on the No. 1 cylinder for looseness. If the push rods are tight, turn the engine over one revolution.

STEP 4



Check and adjust the intake and exhaust valves as shown by the arrows below.

Valve clearance - Intake Valves 0.018 inch (0.45 mm) Exhaust Valves 0.031 inch (0.80 mm)



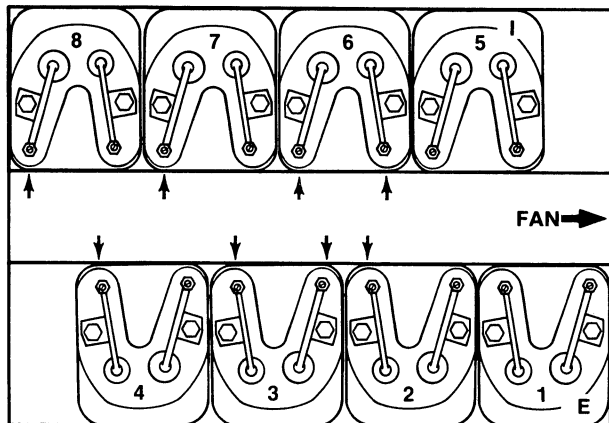
NUMBER ONE CYLINDER 30° AFTER TC COMBUSTION STROKE

STEP 5

Turn the engine over clockwise, one complete revolution and align the 30° after TC mark on the flywheel with the timing pointer.

Check and adjust the intake and exhaust valves as shown by the arrows below.

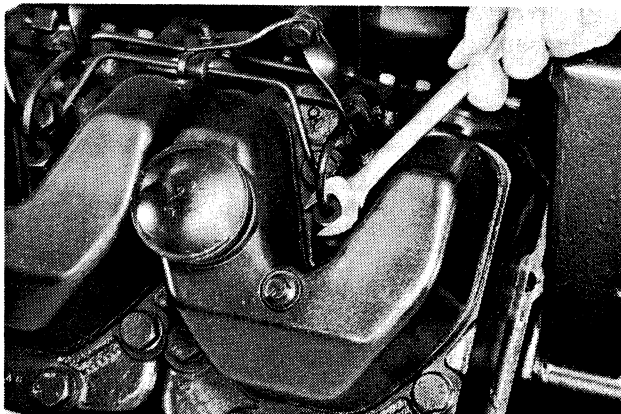
Valve clearance - Intake Valves 0.018 inch (0.45 mm) Exhaust Valves 0.031 inch (0.80 mm)



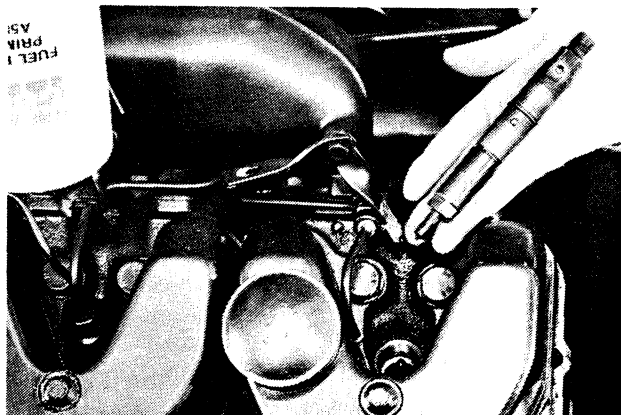
NUMBER ONE CYLINDER 30° AFTER TC
INTAKE STROKE

IMPORTANT: Valve clearance adjustments must be made when the engine is not running and the engine has to cool down a minimum of 1/2 hour after shutoff. Tighten the lock nuts on the valve clearance adjusting screws to an approximate torque of 30 lb ft (40 Nm)(4.0 kgm).

Checking Fuel Injector Nozzles

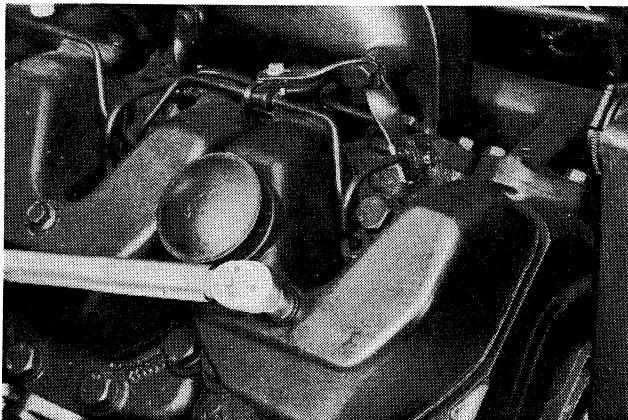
STEP 7

Disconnect the fuel supply and return lines from the injectors.

STEP 8

Remove and test each fuel injector. See Section 3213 in this Service Manual for removal and testing.

NOTE: Make a compression test on each cylinder before installing the injectors.

STEP 6

Install the valve cover for each cylinder head on the engine. Tighten the valve cover bolts to a torque of 124 lb in (14 Nm)(1.4 kgm).

Checking Engine Compression

STEP 9

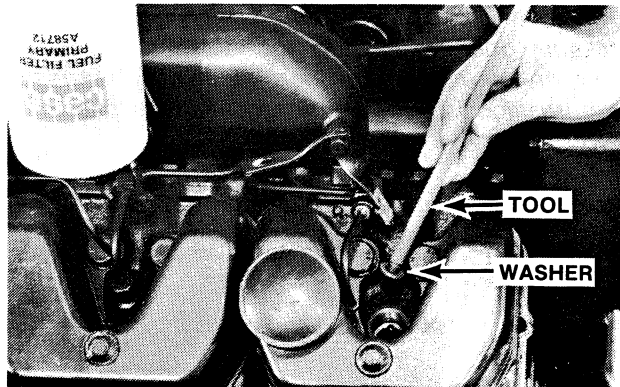
There are two methods of checking the compression pressure. The two methods are the crank method and the engine running method. The engine must be at operating temperature for either method used.

1. CRANK METHOD - Remove all of the fuel injectors.
2. RUNNING METHOD - Disconnect the fuel supply and return lines from the Number One injector. Send the fuel from the lines back to the fuel tank or into a clean container. Repeat for each cylinder.



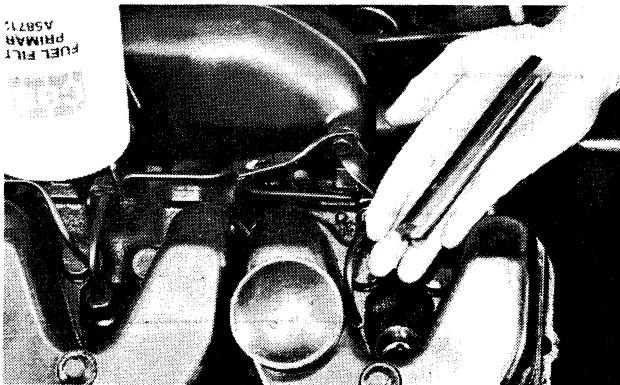
CAUTION Before cranking engine, make sure all operating controls are in neutral, brakes are set and wheels are securely blocked.

STEP 10



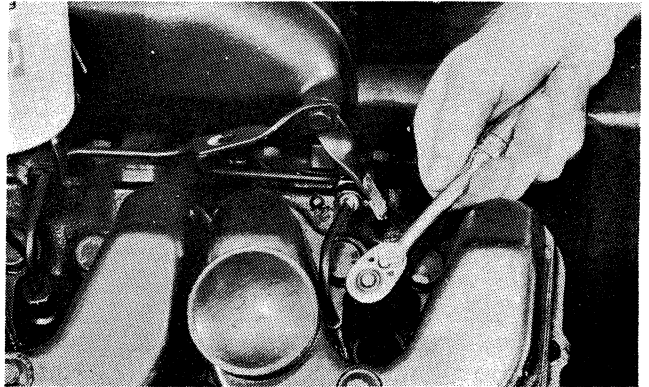
Use the injector washer extractor to remove the washer from the bottom of the injector bore. See the Special Tools To Be Made page.

STEP 11



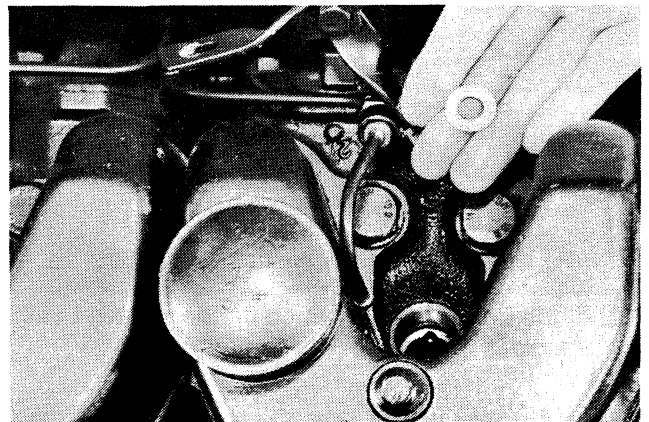
Use an injection bore carbon reamer to clean the injector bores in the cylinder heads. See the Special Tools page.

STEP 12



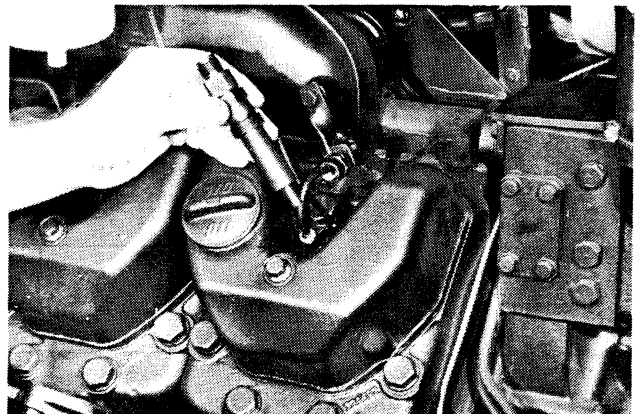
Always turn the tool clockwise. Turning the tool counterclockwise will damage the tool. After using the tool, clean the injector bores with compressed air.

STEP 13



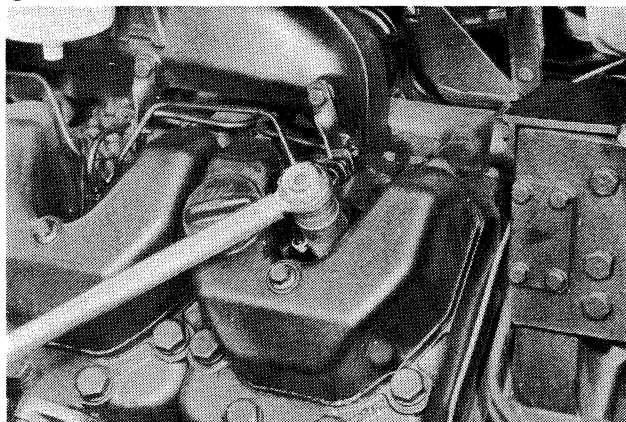
Install a new injector washer in the bore of the cylinder head.

STEP 14



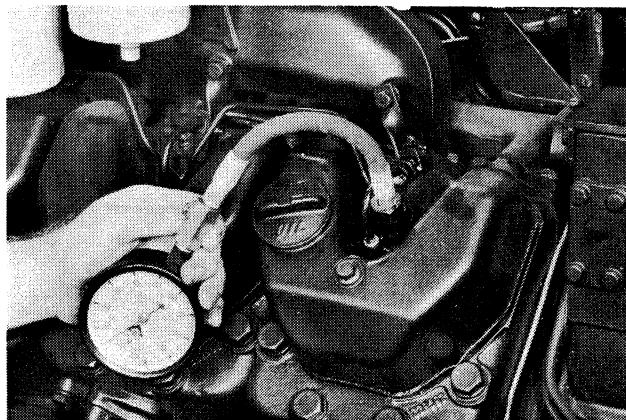
Install the compression gauge adapter in the cylinder head bore.

STEP 15



Tighten the compression gauge adapter in the injector bore to a torque of 52 lb ft (70 Nm)(7.0 kgm).

STEP 16



Install the compression gauge on the adapter. See the Special Tools page.

STEP 17

NOTE: Take several compression readings on each cylinder using the bottom on the compression gauge to decrease gauge pressure. See the chart below for correct compression pressure.

When checking the compression, using the crank method, start at the Number one cylinder and continue with the remainder of the cylinders in order (Number 2, 3, 4, etc.). Then check again the Number one cylinder after finishing the last cylinder, since compression can change because of a weak battery.

It is very important that all cylinder pressures be approximately the same. See the chart for permitted compression pressure differences.

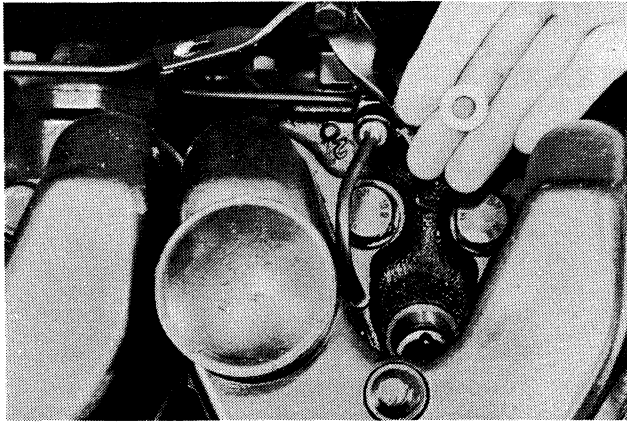
More than normal compression is an indication of carbon deposits. Below normal compression is an indication of a valve that leaks or too much ring clearance.

NOTE: To make an easy test when the compression is below normal on one or more cylinders, put about 1/4 fl oz (7 ml) of clean engine oil in the cylinder and check the compression again. If the pressure goes up to near normal, then the compression loss is past the rings. Very little change in compression is an indication of leakage past the valves.

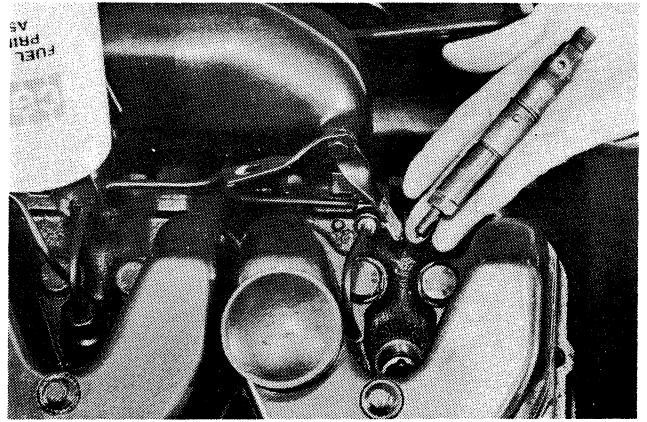
Remove the compression gauge, gauge adapter and injector washer from the cylinder head.

	ENGINE SPEED	NORMAL COMPRESSION PRESSURE	PERMITTED CHANGE BETWEEN CYLINDERS
CRANK METHOD	APPROXIMATELY 200 RPM UNTIL COMPRESSION GAUGE BECOMES CONSTANT	400 PSI * (2 758 kPa)(27.58 bar)	25 PSI (172 kPa)(1.72 bar)
RUNNING METHOD	800 RPM	480 PSI * (3 310 kPa)(33.10 bar)	20 PSI (138 kPa)(1.38 bar)

***NOTE:** A 4% reduction in PSI must be permitted for every 1000 ft (305 m) above sea level.

STEP 18

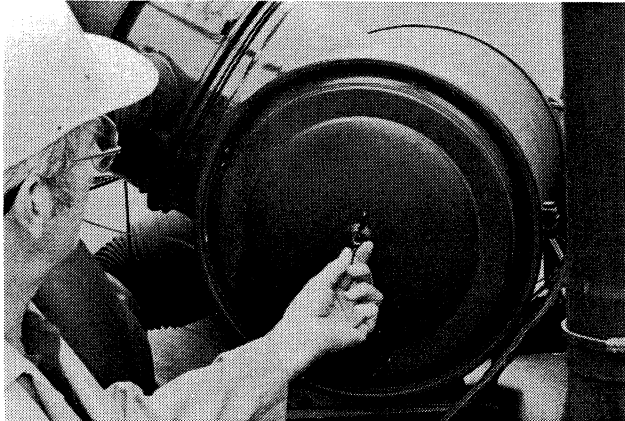
Install a new injector washer in each cylinder head bore.

STEP 19

Install the fuel injectors. See Section 3213 in this Service Manual for installation.

Cleaning And Servicing The Air Intake System

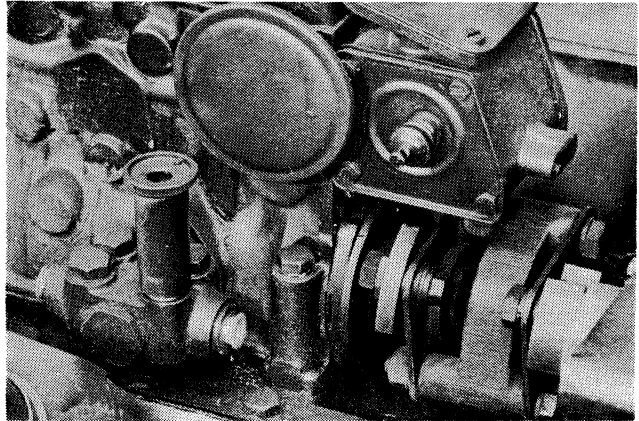
STEP 20



See Section 2275 in this Service Manual for cleaning and servicing the air intake system.

Timing The Fuel Injection Pump

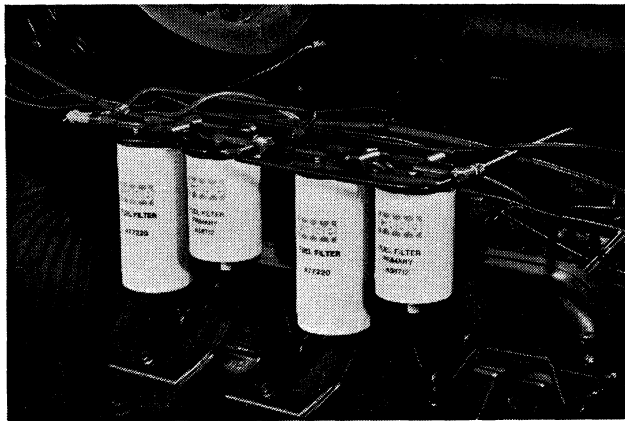
STEP 22



See Section 3212 in this Service Manual for checking and adjusting the timing of the fuel pump.

Servicing The Fuel Filters

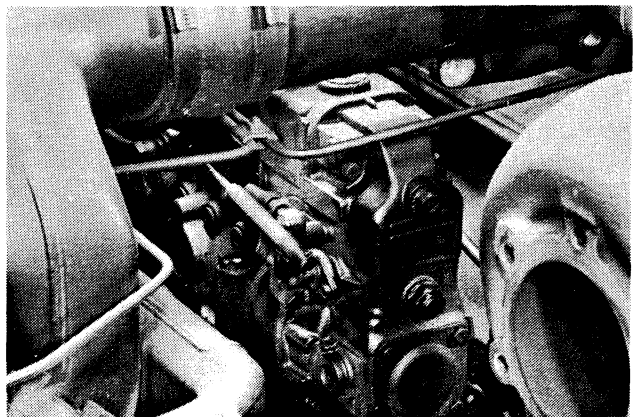
STEP 21



See Section 3210 in this Service Manual for servicing the fuel filters.

Checking Fuel Injection Pump Governed Speed

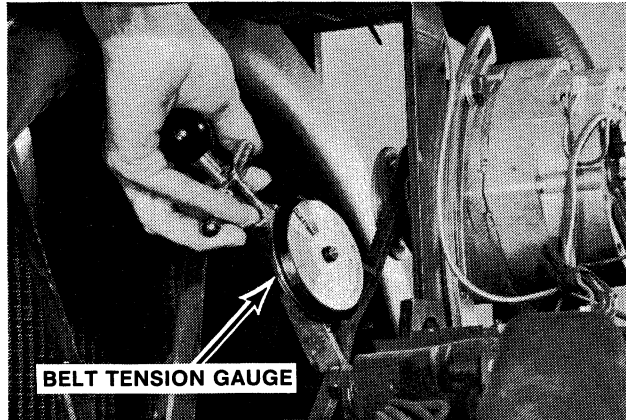
STEP 23



See Section 3212 in this Service Manual for checking the low idle governed speed of the fuel injection pump.

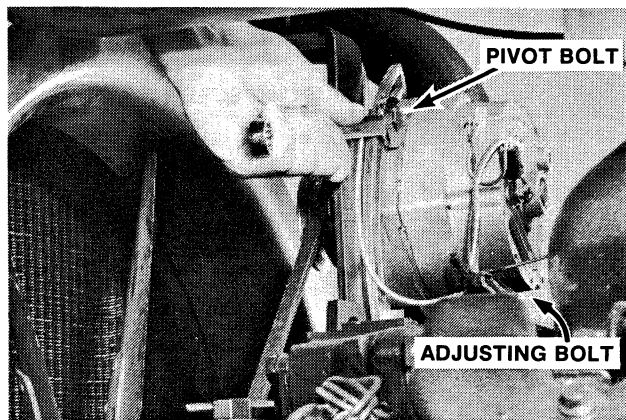
Adjusting Fan And Compressor Belts

STEP 24



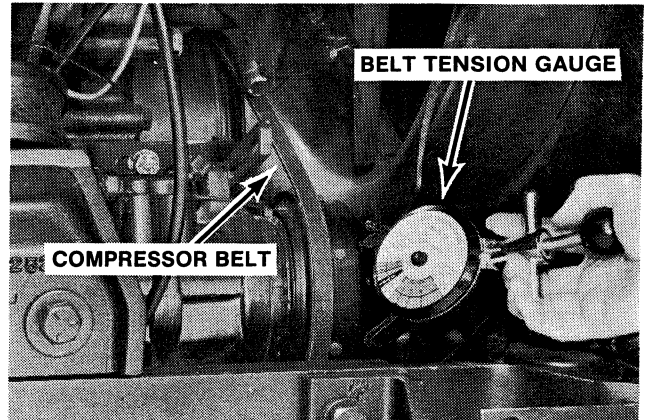
Use a belt tension gauge to measure the fan belt for the correct tension. Belt tension must be 80 lb (356 N).

STEP 25



To adjust the belt, loosen the adjusting and pivot bolts. Pull the alternator out from the engine until the correct tension is reached. Pull only on the front casting of the alternator. Tighten the adjusting and pivot bolts.

STEP 26



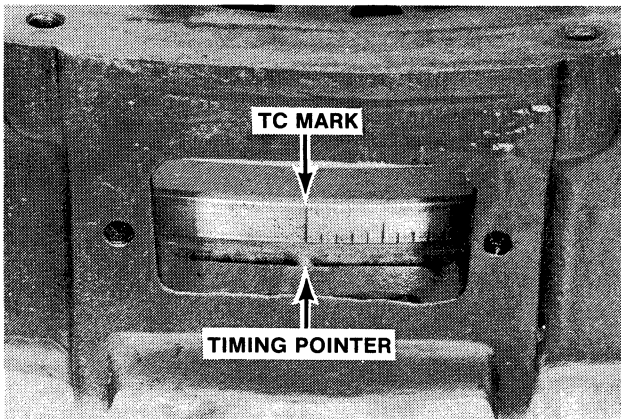
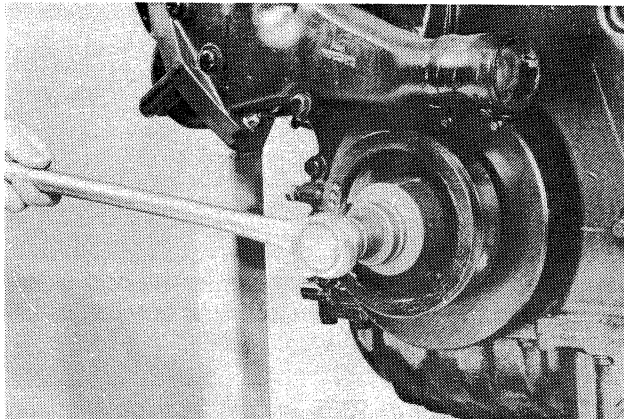
Use a belt tension gauge to measure the compressor belt for the correct tension. Belt tension must be 80 lb (356 N).

NOTE: See Section 9235 in this Service Manual for tension and alignment adjustments.

Checking Valve Timing

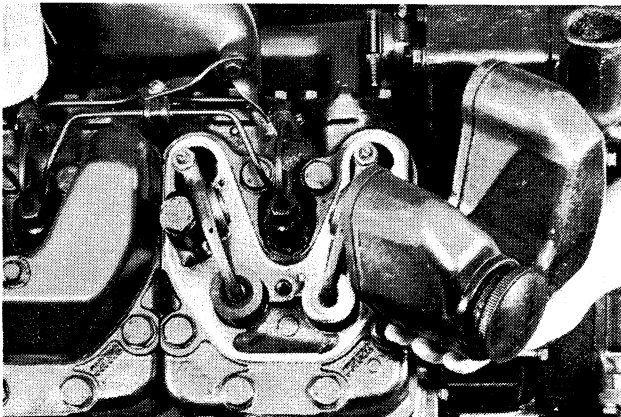
NOTE: This procedure can also be used to check for the correct assembly of the camshaft to the crankshaft gear teeth without removing the front timing gear cover.

STEP 27



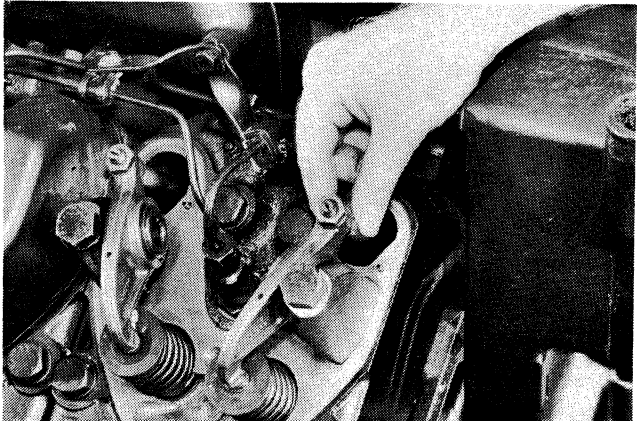
Turn the engine over clockwise until the 0° or TC mark on the flywheel aligns with the timing pointer.

STEP 28



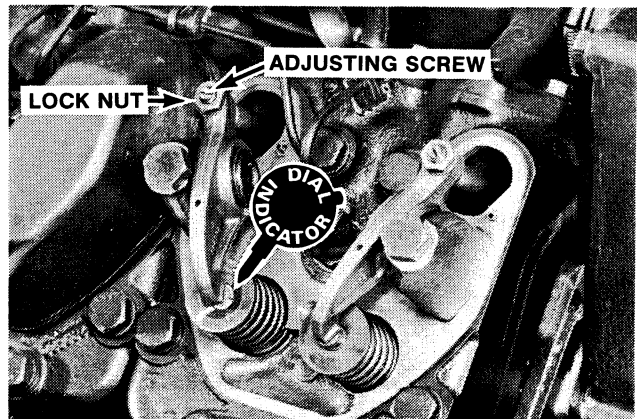
Remove the valve cover for the No. 1 cylinder head on the RH front side of the engine.

STEP 29

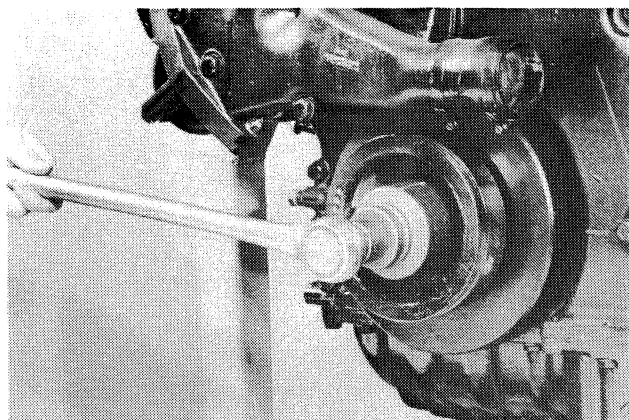


Check the No. 1 cylinder intake and exhaust valve push rods, the push rods must be loose. If the push rods are tight, turn the engine over one complete revolution.

STEP 30

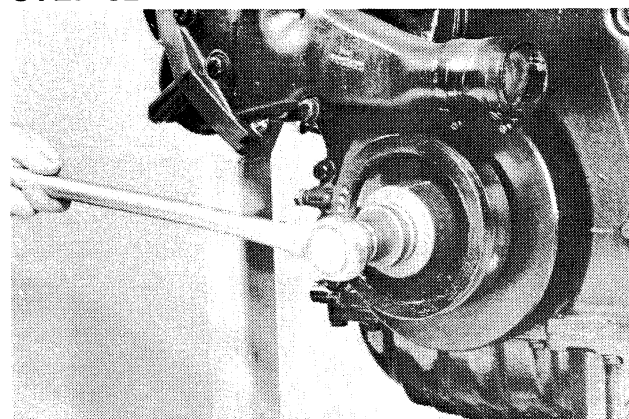


Put a dial indicator on the No. 1 cylinder intake valve spring guide and set the dial indicator at zero. Loosen the lock nut on the rocker arm adjusting screw. Turn the adjusting screw to remove all valve clearance and to open the valve 0.1 mm. Tighten the lock nut. Reset the dial indicator to zero.

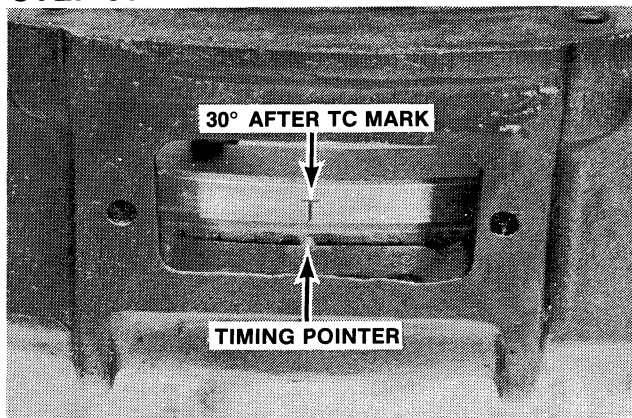
STEP 31

Turn the engine over clockwise, one complete revolution. The dial indicator must show a reading of 0.083 to 0.126 inch (2.1 to 3.2 mm) for the correct valve timing.

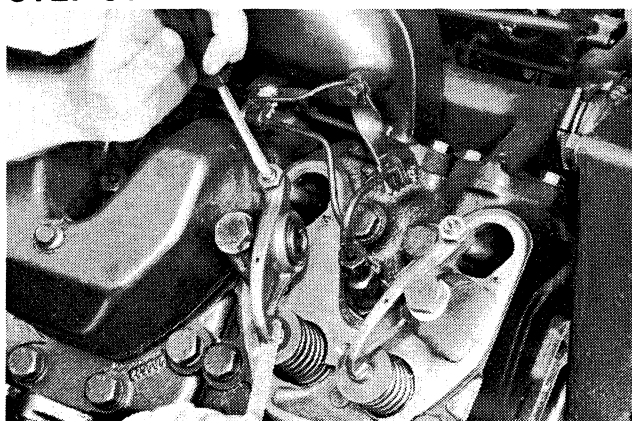
NOTE: If the 0.083 to 0.126 inch (2.1 to 3.2 mm) reading is not reached, the complete gear train assembly must be checked. See Section 2225 in this Service Manual to remove the timing gear cover and align the timing marks on the gears.

STEP 32

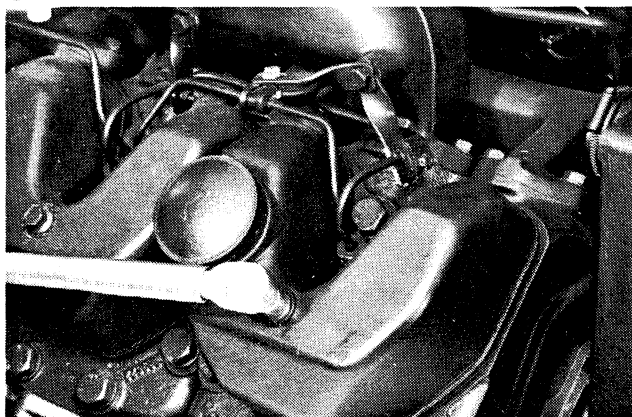
Turn the engine over clockwise one complete revolution until the No. 1 cylinder is in the compression stroke.

STEP 33

Continue to turn the engine clockwise, to align the 30° after TC mark on the flywheel with the timing pointer.

STEP 34

Adjust the valve clearance for the No. 1 cylinder intake valve to a clearance of 0.018 inch (0.45 mm). Tighten the lock nut on the adjusting screw to an approximate torque of 30 lb ft (40 Nm)(4.0 kgm).

STEP 35

Install the valve cover on the cylinder head. Tighten the valve cover bolt to a torque of 124 lb in (14 Nm)(1.4 kgm).



Suggest:

If the above button click is invalid.

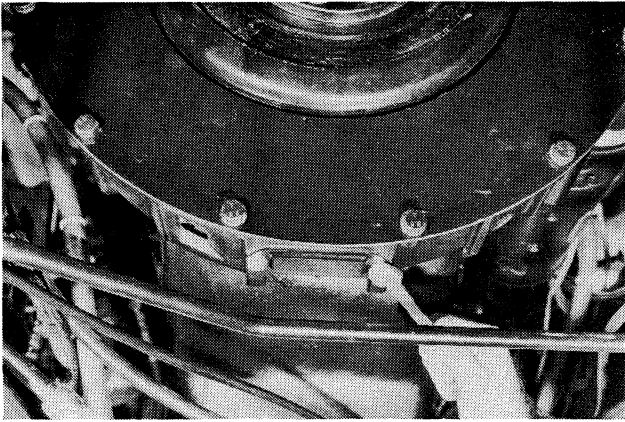
Please download this document

first, and then click the above link

to download the complete manual.

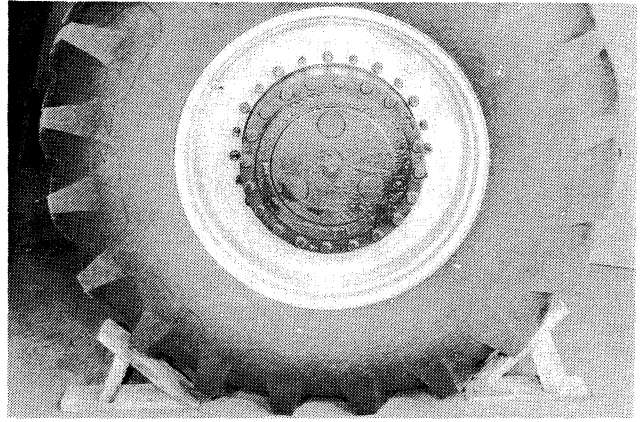
Thank you so much for reading

STEP 36



Install the cover over the timing hole in the bottom of the flywheel housing.

STEP 37



Remove the blocks from in front of and behind the tractor tires.

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Hello dear friend!

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Enter the link into your browser.

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