

880B EXCAVATOR TABLE OF CONTENTS

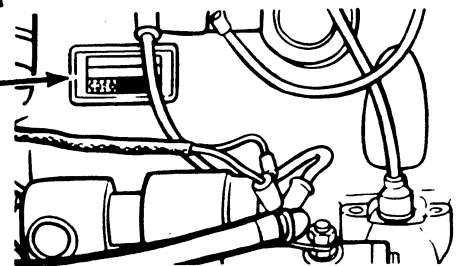
SERIES/SECTION	SECTION NO.	FORM NO.
10 SERIES-GENERAL		
General Engine Specifications	11	9-74205
Detailed Engine Specifications	1023	9-78646
General Maintenance	1050	9-68141
Torque Charts	1051	9-66015
General Cleaning Instructions	1055	9-66735
Safety Rules	1056	9-68141
20 SERIES - ENGINE		
Engine Diagnosis	2001	9-76365
Engine Tune-Up	2002	9-76379
Cylinder Head, Valve Train and Camshaft	2015	9-76166
Cylinder Block, Sleeves, Piston and Rods	2025	9-76176
Crankshaft, Main Bearings, Flywheel and Oil Seals	2035	9-76187
Lubrication System	2046	9-76805
Air Cleaner	2051	9-68141
Pump Drive Plate	2053	9-68141
Cooling System	2055	9-76337
Reconditioning Engine Cylinder Block	2290	8-21170
30 SERIES - FUEL SYSTEM		
Fuel System and Filters	3010	9-75297
Fuel Injection pump	3012	9-74937
Fuel Injectors	3013	9-74959
Fuel Tank, Fuel Lines and Fuel Storage	3052	9-68141
40 SERIES - ELECTERICAL		
Maintenace Service	4001	9-68141
Diagnostic Tests and Checks	4002	9-68141
Wiring Harness	4003	9-68141
Starter, Starter Solenoid and Starter Relay Switch	4006	9-68141
Alternator	4007	9-68141
50 SERIES - TRACK AND SUSPENSION		
Maintenance Service	5501	9-68141
Troubleshooting	5502	9-68141
Track Chain and Shoes	5503	9-68141
Track Rollers, Carrier Rollers, Idlers and Sprockets	5506	9-68141
60 SERIES - POWER TRAIN		
Maintenance Service	6301	9-68141
Troubleshooting	6302	9-68141
Drive Motor Circuit and Lines	6311	9-68141
Drive Motor	6312	9-68141
Final Drive Transmission (Drive)	6317	9-68141

SERIES/SECTION	SECTION NO.	FORM NO.
70 BRAKE SYSTEM		
Maintenance Service	7001	9-68141
House Brake	7011	9-68141
Track Digging Brake	7012	9-68141
80 EQUIPMENT HYDRAULICS		
Maintenance Service	8201	9-68141
Diagnostic Tests and Checks	8202	9-68142
Equipment Hydraulic Pump	8205	9-68141
Excavator Control Valves	8207	9-68142
Swing Motor Hydraulics, Swing Motor and Cross-Over Relief Valve ..	8210	9-68141
Hoist Cylinder Hydraulics	8211	9-68141
Crowd Cylinder Hydraulics	8212	9-68141
Tool Cylinder Hydraulics	8213	9-68141
Leveler Cylinder Hydraulics	8215	9-68141
Hydraulic Swivel	8218	9-68141
Hydraulic Cylinders	8290	9-68141
90 MOUNTED EQUIPMENT		
Maintenance Service	9201	9-68141
Troubleshooting	9202	9-68141
Control Levers and Linkage	9206	9-68141
Swing Reducer Gear Box	9210	9-68141
"E" Boom	9211	9-68141
"Y" Boom	9212	9-68141
Attachments	9213	9-68141
Turntable Leveler Assembly	9215	9-68141
Turntable, Bearing and Related Parts	9216	9-68141

Section 11

GENERAL ENGINE SPECIFICATIONS 880 EXCAVATOR

THE MODEL AND ENGINE SERIAL NUMBER IS STAMPED ON A PLATE LOCATED ON THE SIDE OF THE ENGINE ABOVE THE CRANKING MOTOR.



DIESEL ENGINES

General

Type	4 Cylinder, 4 Stroke Cycle, Valve-in-Head Turbo-Charged
Firing Order	1-3-4-2
Bore	4-5/8 Inches
Stroke	5 Inches
Piston Displacement	336 Cubic Inches
Compression Ratio	16.5 to 1
No Load Governed Speed	2385 - 2415 RPM
Rated Engine Speed	2200 RPM
Engine Idling Speed	725 to 775 RPM
Exhaust Valve Rotators	Positive Type
*Valve Tappet Clearance (Exhaust)	(Hot) .020 Inch (Cold) .025 Inch
(Intake)	(Hot and Cold) .015 Inch

*Hot Settings Are Made After the Engine Has Operated At Thermostat Controlled Temperature For At Least Fifteen Minutes.

Piston and Connecting Rods

Rings per Piston	3
Number of Compression Rings	2
Number of Oil Rings	1
Type Pins	Full Floating Type
Type Bearing	Replaceable Precision, Steel Back, Copper-Lead Alloy Liners

Main Bearings

Number of Bearings	5
Type Bearings	Replaceable Precision Steel Back, Copper-Lead Alloy Liners

Engine Lubricating System

Crankcase Capacity	10 Quarts
with Filter Change	11 Quarts
Oil Pressure	45 to 55 Pounds with Engine Warm and Operating at Rated Engine Speed
Type System	Pressure and Spray Circulation
Oil Pump	Gear Type
Oil Filter	Full Flow Spin on Type

Fuel System

Fuel Injection Pump	Robert Bosch, Type PES Multiple Plunger
Pump Timing	30 Degrees Before Top Dead Center (Port Closing)
Fuel Injectors	Pencil Type (Opening Pressure 2800 PSI)
Fuel Transfer Pump	Plunger Type, Integral Part of Injection Pump
Governor	Variable Speed, Fly-Weight Centrifugal Type, Integral Part of Injection Pump
1st Stage Fuel Filter	Full Flow Spin on Type
2nd Stage Fuel Filter	Full Flow Spin on Type

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Section 1050

GENERAL MAINTENANCE

MAINTENANCE

Introduction

Scheduled maintenance and lubrication are the normal operations required to provide safe and efficient operation. Following the maintenance charts is the easiest and most economical means of assuring the least amount of down time.

Hourly intervals have been established for servicing the machine. They are based on the number of hours the engine has run. The hourmeter, which operates when the engine is running, indicates the accumulated hours of operation.

Run-In Period

The items listed in the run-in section are performed during the run-in period only.

Scheduled Maintenance

The items listed in this section are separated into maximum hourly intervals. These intervals are based on "average" operating conditions. When operating under "severe" conditions, such as excessive heat, cold, dust, mud or water, shorten the interval.

The chart following lists all components to be serviced, the interval of servicing and the section it is found in.

RUN-IN MAINTENANCE CHART

NOTE: The following charts are based on maximum intervals. If the machine operates in severe conditions, service more often.

NOTE: See page 1050-5 for listing of fluids and lubricants.

INTERVAL	SERVICE	INSTRUCTIONS
Run-In Period After First 20 Hours	Drain and refill engine crankcase oil	See Operator's Manual
	Change engine oil filter.	See Operator's Manual
	Check fan belt tension	Section 4007
	Replace 33 micron hydraulic oil filter element	Section 8201
	Clean 100 mesh screens	Section 8201

SCHEDULED MAINTENANCE CHART

INTERVAL	SERVICE	INSTRUCTIONS
Every 10 Hours or daily, whichever occurs first	Check engine oil level	See Operator's Manual
	Check hydraulic oil level	Section 8201
	Check air cleaner air restriction indicator	Section 2051
	Check radiator coolant level	See Operator's Manual
	Clean air cleaner dust cups	See Operator's Manual

INTERVAL	SERVICE	INSTRUCTIONS
	Check fuel transfer pump sediment bowl for water. If found, drain bowl, filter and fuel tank. Fill fuel tank Controls - check operation Check track rollers for leakage. Lifetime lubricated - no scheduled maintenance required. Lubricate turntable open gear Clean operator's compartment thoroughly Grease boom and attachment fittings Grease crawler drive pillow blocks	See Operator's Manual See Operator's Manual Section 9206 Section 9201 See Operator's Manual Section 9201 Section 6301
After first 50 hours or first week of operation	Check torques on all turntable bearing capscrews	Section 9216
Every 50 hours or Weekly	Grease leveler fittings Lubricate control linkage Lubricate turntable bearings Check oil level in final drive transmissions Check tension in excavator tracks	Section 9201 Section 9201 Section 9201 Section 6301 Section 5501
Every 100 hours	Change engine oil	See Operator's Manual
Every 200 hours	Change engine oil filter element	See Operator's Manual
Every 250 Hours	Check V-belt deflection	Section 4007
Every 300 Hours or 6 Weeks	Check torque on all turntable bearing bolts	Section 9216
Every 500 Hours or two months	Drain deposits from fuel tank and sediment bowls Add corrosion inhibitor to radiator Replace fuel filters Replace hydraulic oil filter element and clean mesh screens	See Operator's Manual See Operator's Manual See Operator's Manual Section 8201

INTERVAL	SERVICE	INSTRUCTIONS
Every 1500 Hours or semi-annually	Drain and refill drive transmission	Section 6301
	Drain and refill swing reducer	Section 9201
	Drain and refill hydraulic oil tank	Section 8201
	Clean battery and connecting posts	See Operator's Manual
	Drain and flush radiator and cooling system. Install fresh coolants	See Operator's Manual
Every 3000 Hours or Yearly	Have authorized Case Dealer inspect, clean and service turbocharger.	
	Lubricate starter motor wicks	Section 4201

FUEL, FLUIDS AND LUBRICANT CHART

COMPONENT	CAPACITY		SPECIFICATIONS
	U.S.	METRIC	
Fuel Tank	75 gal.	284 litres	No. 2 diesel fuel
Engine crankcase with filter change	11 quarts	10.5 litres	Engine oil: Case HDM Oil CD - Commercial class D Above 32° F (0° C) - SAE 30W 10° to 50° F (-12° to 10° C) - SAE 20W Below 32° F (0° C) - SAE 10W
without filter change	10 quarts	9.5 litres	
Hydraulic Tank	18.7 gals.	71 litres	Case TCH Fluid Alternate oils: Engine oil - SD Service class D CA - Commercial class A (Service MS or DG) Above 32° F (0° C) - SAE 10W Below 32° F (0° C) - SAE 5W Type C-2 transmission and hydraulic fluid such as Tenneco Hytrans Fluid
Hydraulic System	43 gal.	163 litres	
Final drives (each)	8.5 quarts	8 litres	Case FDL final drive fluid or SAE 90 API-GL-4 Gear Lubricant
Swing Gearbox	4.5 quarts	4.25 litres	Case FDL final drive fluid or SAE 90, API-GI-4 Gear Lubricant
Cooling System	9.5 gal.	36 litres	Ethylene glycol and water should be mixed for prevailing temperatures. Follow antifreeze manufacturer's specifications.
Grease Fittings	As required		No. 2 Moly-disulfide grease

NOTE: It is extremely important that a stable, high quality engine lubricating oil be selected for use in the Case Diesel Engine. It is also extremely important that the correct weight (SAE Viscosity Rating) of oil be selected for the prevailing air temperature. This assures you that the oil will remain fluid or free flowing within the specified temperature ranges.

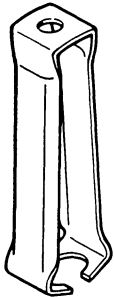
NOTE: The CASE CORPORATION reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.

Section 2001

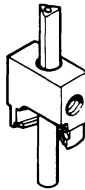
ENGINE DIAGNOSIS

INSTALLATION INSTRUCTIONS FOR M20614 TEFLON VALVE SEAL KIT

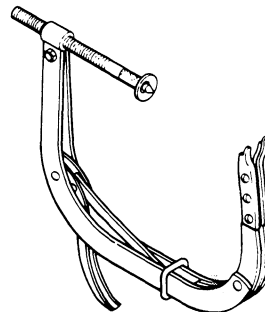
Special Tools Required



M20624 SEAL INSTALLATION TOOL



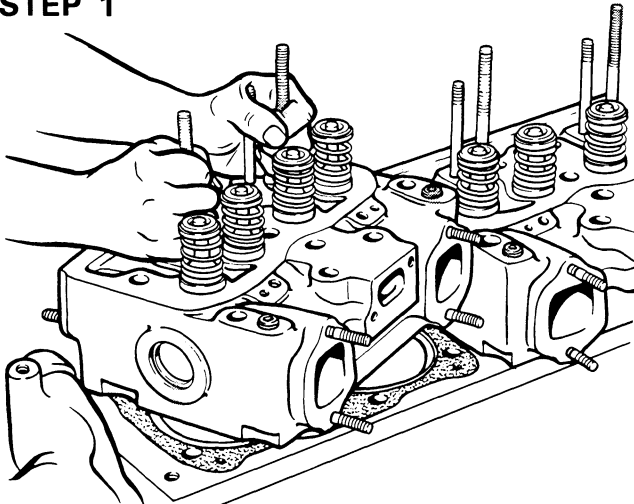
M20617 VALVE GUIDE CUTTING TOOL



VALVE SPRING COMPRESSOR

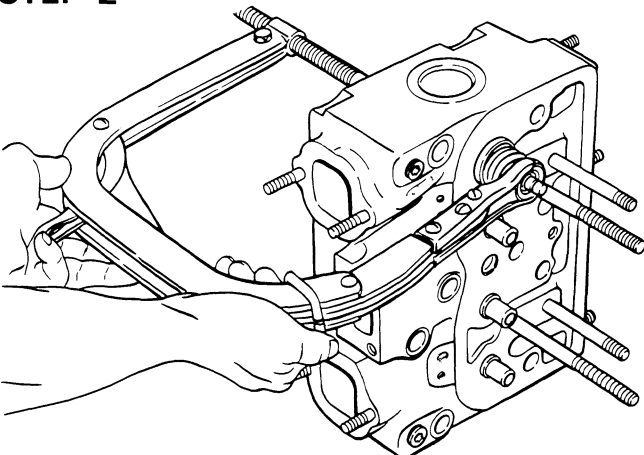
NOTE: FOUR CYLINDER ENGINES REQUIRE TWO M20614 KITS AND SIX CYLINDER ENGINES REQUIRE THREE M20614 KITS.

STEP 1



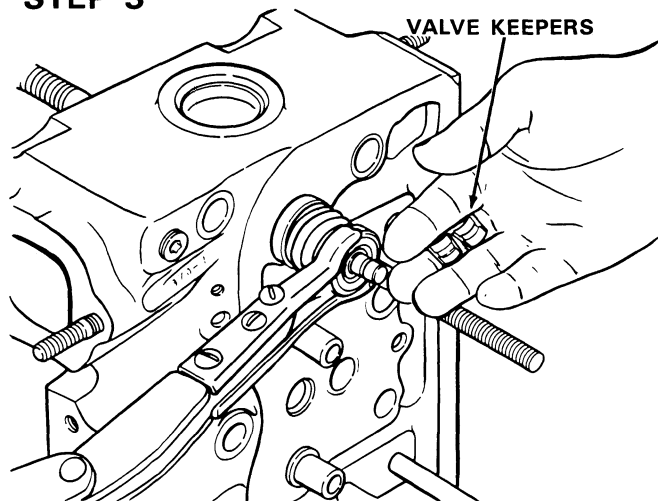
REMOVE THE CYLINDER HEADS FROM THE ENGINE, REFER TO SECTION 2015 FOR HEAD REMOVAL.

STEP 2



INSTALL A VALVE SPRING COMPRESSOR.

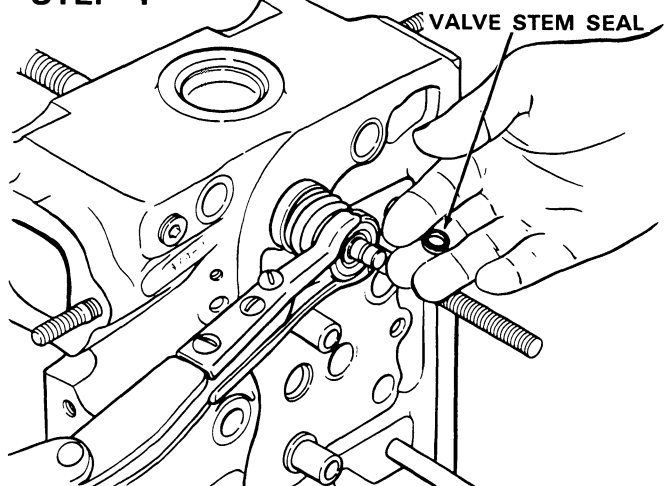
STEP 3



COMPRESS VALVE SPRING AND REMOVE VALVE KEEPERS.

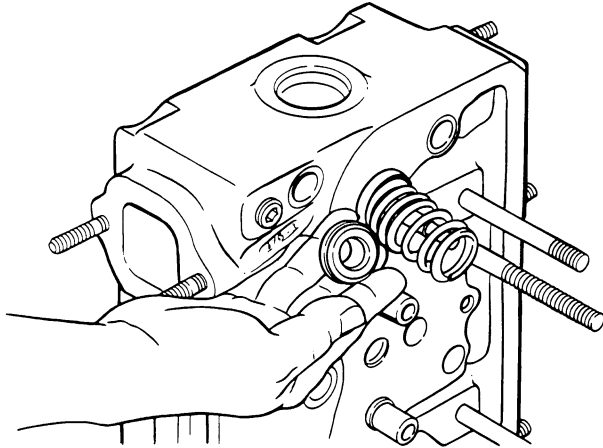
IMPORTANT: VALVES, VALVE RETAINERS OR ROTATORS AND VALVE KEEPERS SHOULD BE MARKED WHEN REMOVED, TO INSURE THAT THEY WILL BE REINSTALLED IN THEIR ORIGINAL LOCATION.

STEP 4



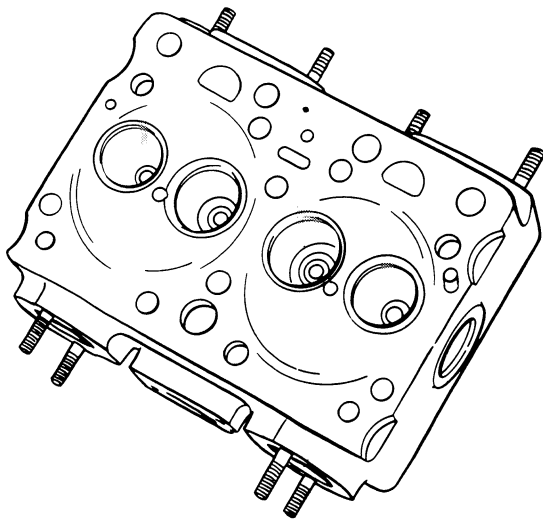
REMOVE VALVE STEM SEAL.

STEP 5



REMOVE VALVE ROTATORS OR SPRING RETAINERS, SPRINGS, SPRING SEATS AND VALVES.

STEP 6



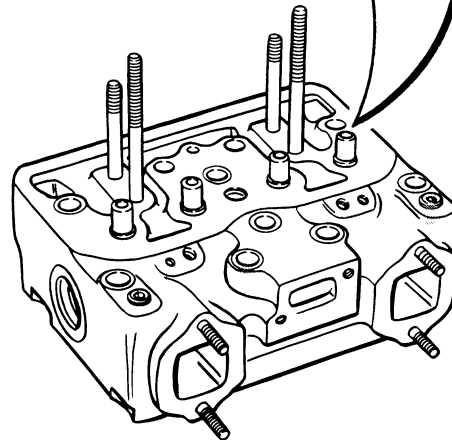
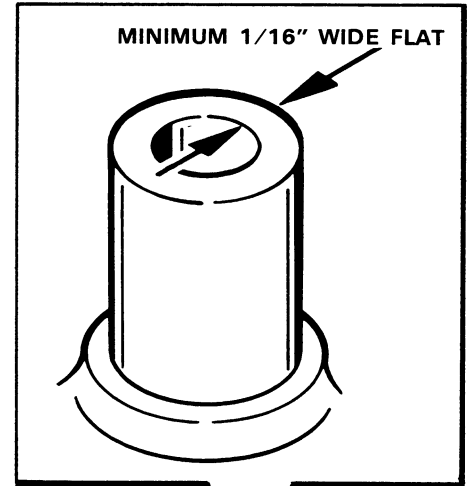
CLEAN CYLINDER HEAD COMPLETELY, REMOVING ALL TRACES OF CARBON AND OTHER DEPOSITS.

STEP 7



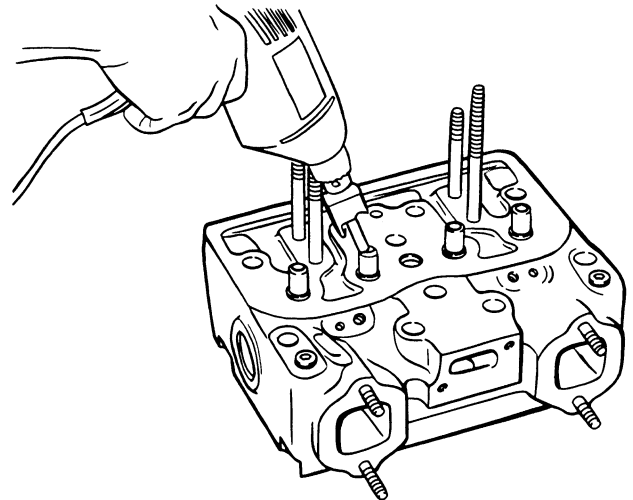
CLEAN VALVES WITH A FINE POWER DRIVEN WIRE BRUSH, REMOVING ALL CARBON AND VARNISH DEPOSITS. BE CAREFUL NOT TO SCRATCH VALVE STEMS.

STEP 8



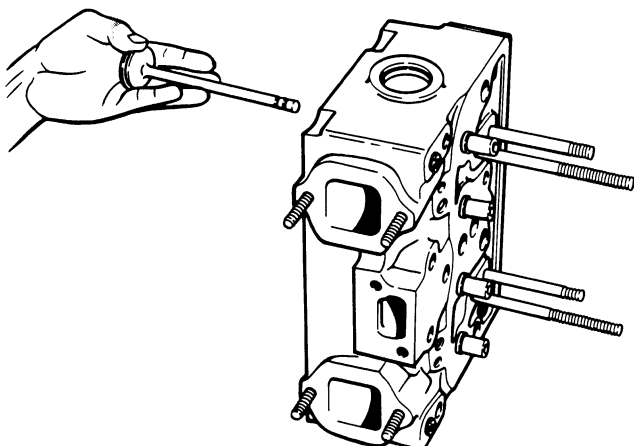
CHECK VALVE GUIDE TOP SURFACE, THERE MUST BE A MINIMUM OF A 1/16" WIDE FLAT AROUND ENTIRE TOP SURFACE.

STEP 9



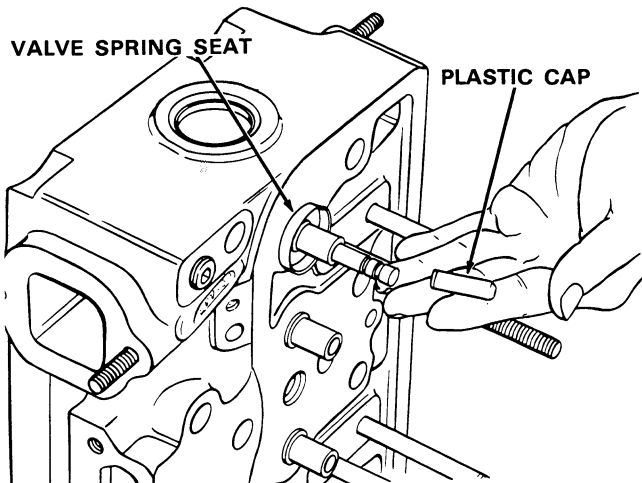
USE M20617 TOOL IN A ELECTRIC DRILL (IF REQUIRED) TO PROVIDE NECESSARY FLAT AREA ON VALVE GUIDE. IMPORTANT: DO NOT EXCEED 450 RPM WHEN DRILLING

STEP 10



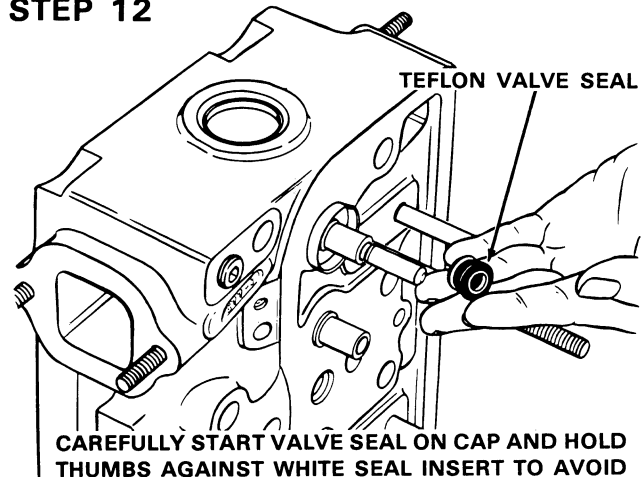
LUBRICATE VALVES WITH CLEAN ENGINE OIL BEFORE REINSTALLING INTO CYLINDER HEAD.

STEP 11



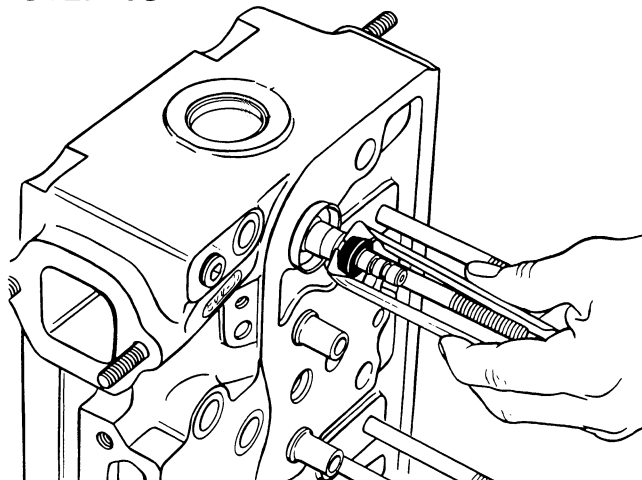
PLACE PLASTIC INSTALLATION CAP, PROVIDED IN KIT, ON THE END OF THE VALVE STEM. NOTE: CAP PREVENTS SHARP EDGES ON VALVE STEM GROOVES FROM CUTTING VALVE SEAL.

STEP 12



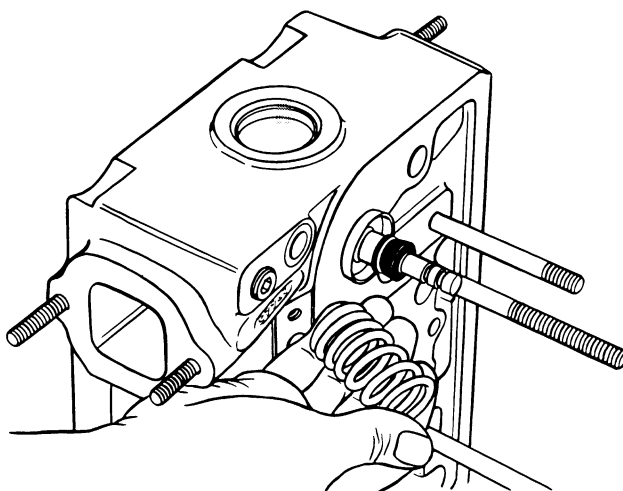
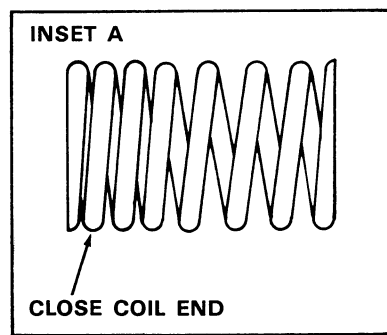
CAREFULLY START VALVE SEAL ON CAP AND HOLD THUMBS AGAINST WHITE SEAL INSERT TO AVOID DISLODGING IT, PUSH SEAL DOWN UNTIL SEAL JACKET TOUCHES TOP OF VALVE GUIDE. REMOVE INSTALLATION CAP AND SAVE, SINCE IT MUST BE REUSED.

STEP 13

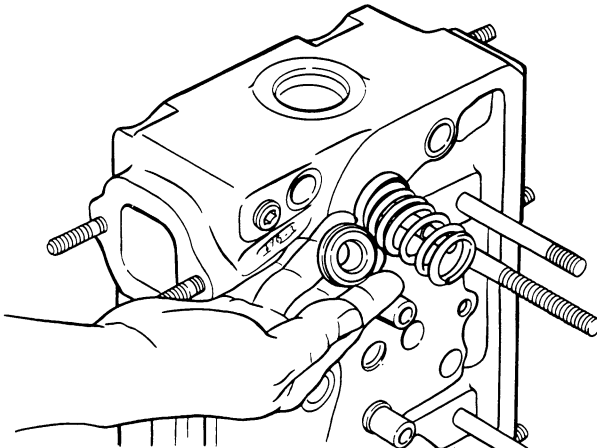


USE M20624 TOOL AND PRESS SEAL DOWN OVER VALVE GUIDE UNTIL SEAL IS FLUSH WITH TOP OF GUIDE.

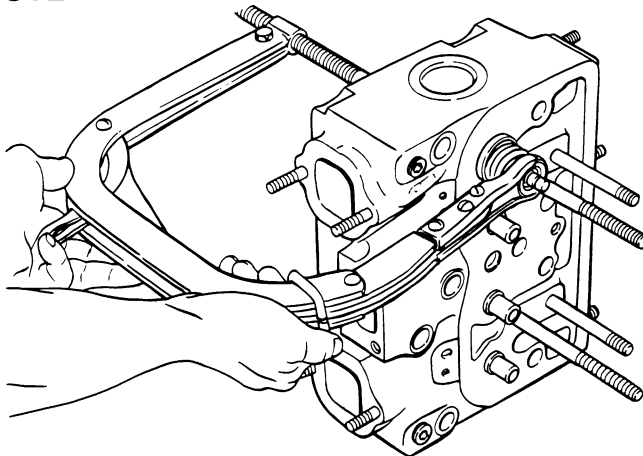
STEP 14



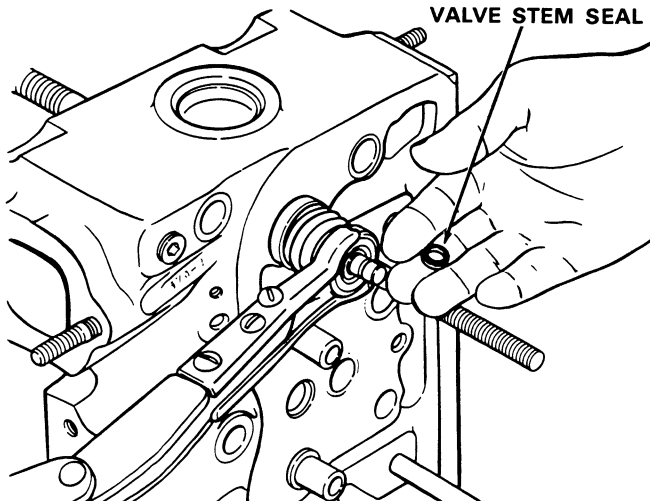
INSTALL THE VALVE SPRING. IMPORTANT: THE CLOSE COIL END OF THE SPRING MUST BE INSTALLED TOWARDS THE CYLINDER HEAD, SEE INSET A.

STEP 15

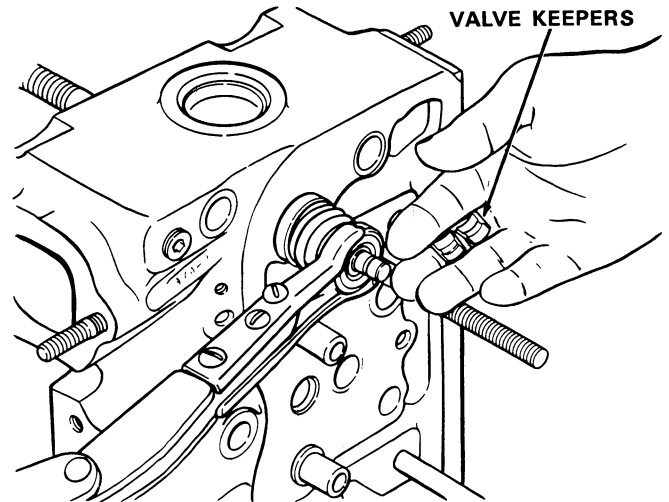
INSTALL VALVE ROTATORS OR SPRING RETAINERS. IMPORTANT: ASSEMBLE VALVE ROTATORS WITH THEIR ORIGINAL VALVES SINCE THEY TEND TO WEAR IN AS A MATCHED SET.

STEP 16

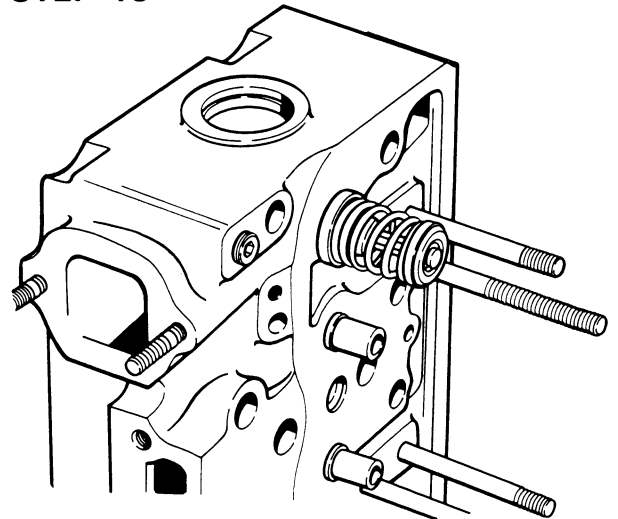
INSTALL VALVE SPRING COMPRESSOR.

STEP 17

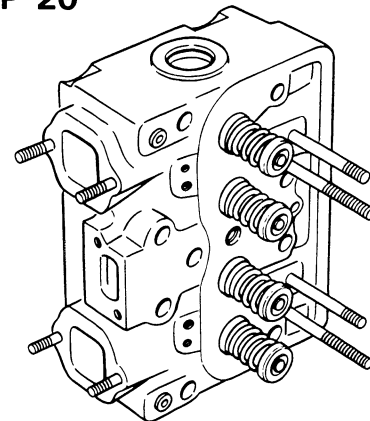
INSTALL STEM SEAL IN LOWER VALVE STEM GROOVE.

STEP 18

INSTALL VALVE KEEPERS IN OUTER VALVE STEM GROOVE.

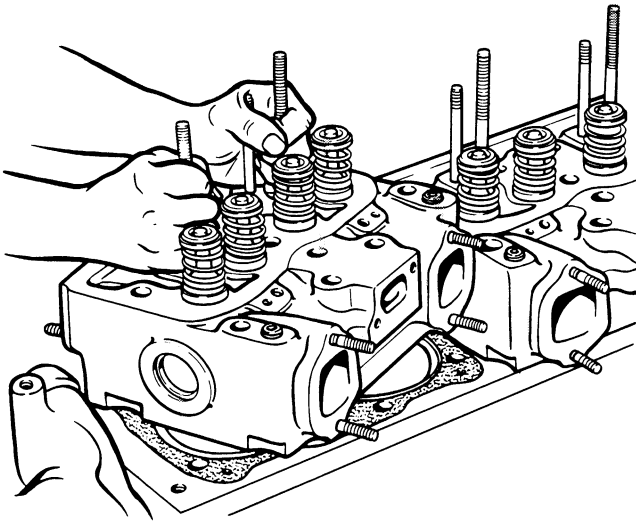
STEP 19

REMOVE SPRING COMPRESSOR AND TAP VALVE STEM END TO SEAT KEEPERS.

STEP 20

INSTALL TEFLON SEALS ON THE OTHER INTAKE AND EXHAUST VALVES, FOLLOWING THE PRECEDING PROCEDURE.

STEP 21



REINSTALL CYLINDER HEAD ON ENGINE FOLLOWING PROCEDURE OUTLINED IN SECTION 2015.

NOTE: The CASE CORPORATION reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.

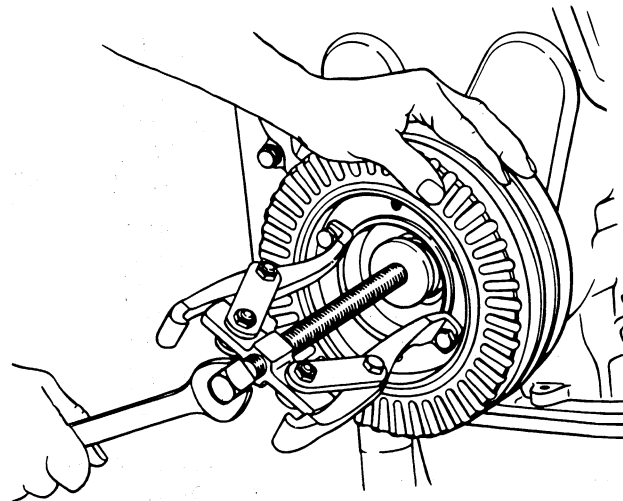
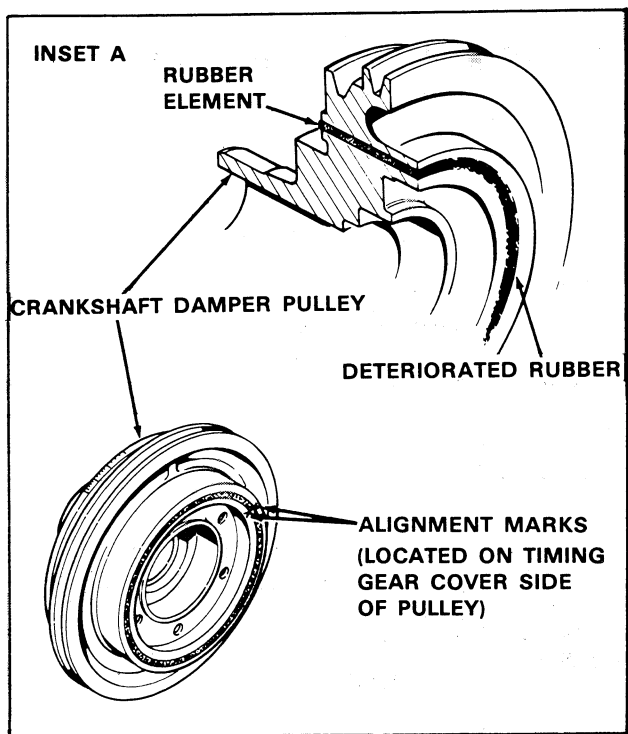
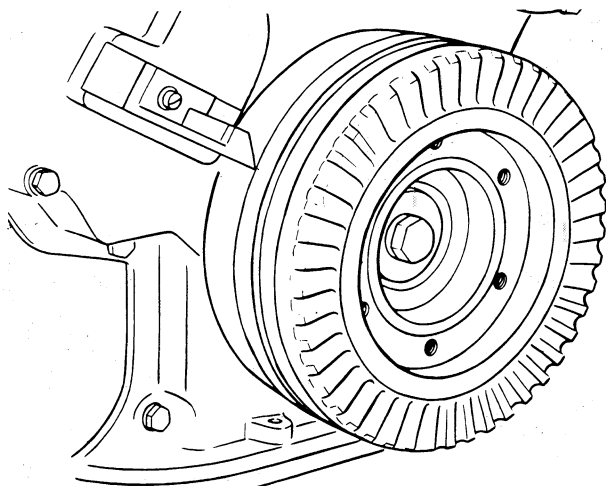
ENGINE TUNEUP PROCEDURE

Checking Crankshaft Damper Pulley

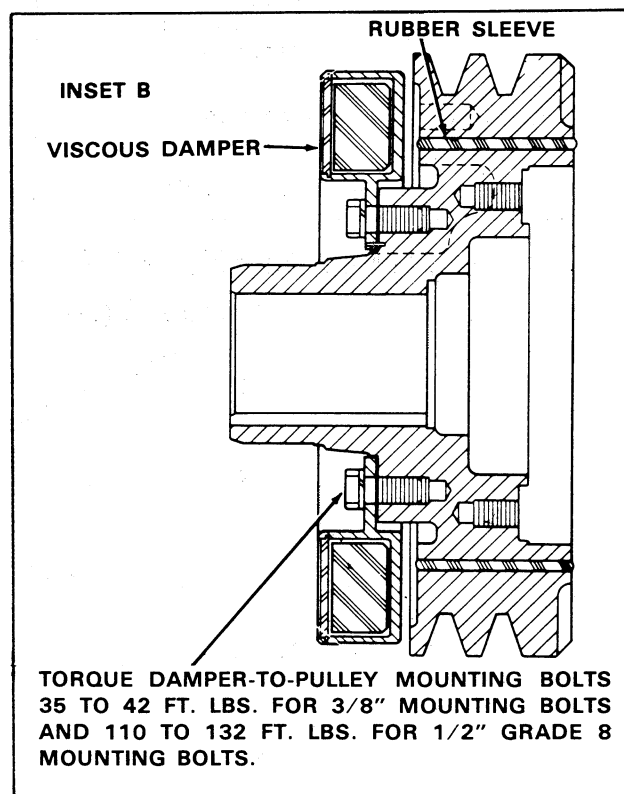
STEP 1

THE RECOMMENDED CHANGE INTERVAL FOR THE CRANKSHAFT DAMPER PULLEY IS 2000 HOURS MAXIMUM. AT ANY TIME OVER 1500 HOURS. CONSIDER CHANGING PULLEY AT ANY MAJOR ENGINE OVERHAUL OR TUNE UP.

EVERY 500 HOURS AND AT ENGINE TUNEUP, VISUALLY INSPECT RUBBER ELEMENT FOR PEEL AREAS OR RUBBER MISSING. CHECK ALIGNMENT OF THE "V" MARKS BETWEEN THE INNER AND OUTER MEMBERS. IF "V" MARKS SHIFT, ENGINE TIMING WILL BE OFF AND DAMPER PULLEY MUST BE REPLACED.

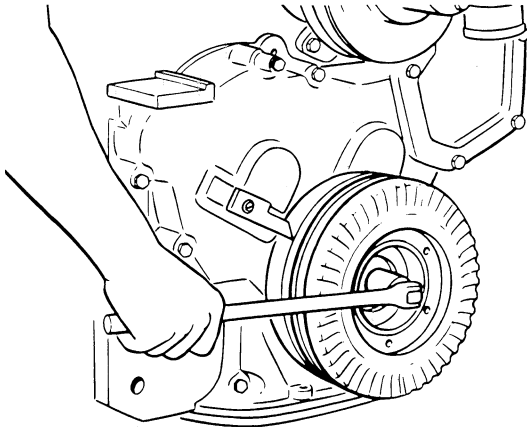


USE BOLT ON TYPE PULLER TO REMOVE PULLEY. REMOVE VISCOUS DAMPER FROM PULLEY (IF SO EQUIPPED). DO NOT PULL OR HAMMER ON OUTSIDE OF PULLEY OR VISCOUS DAMPER; SERIOUS DAMAGE TO PULLEY, DAMPER, AND RUBBER SLEEVE COULD RESULT.



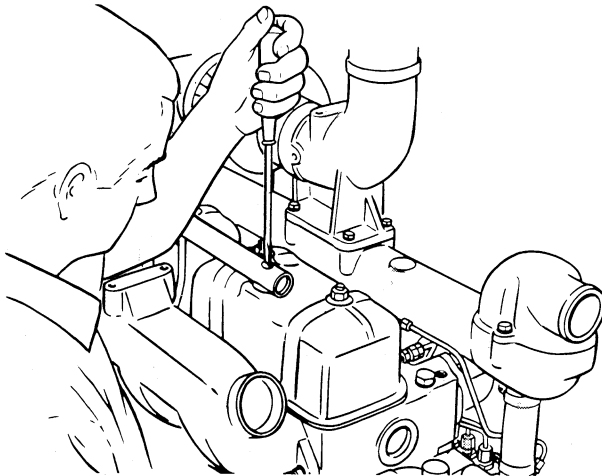
Checking Top Dead Center

STEP 2



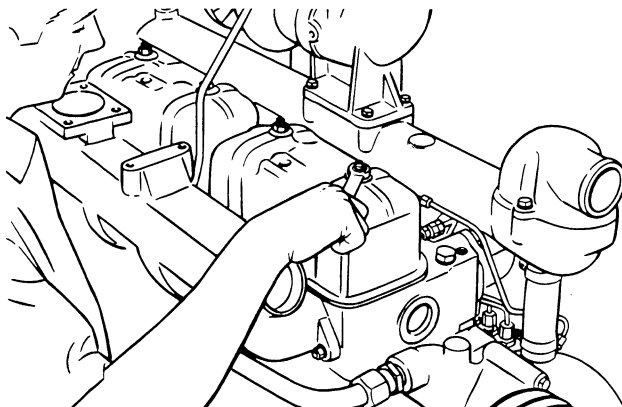
CRANK ENGINE UNTIL 10° BTDC MARK ON CRANK-SHAFT PULLEY IS ALIGNED WITH TIMING POINTER.

STEP 3



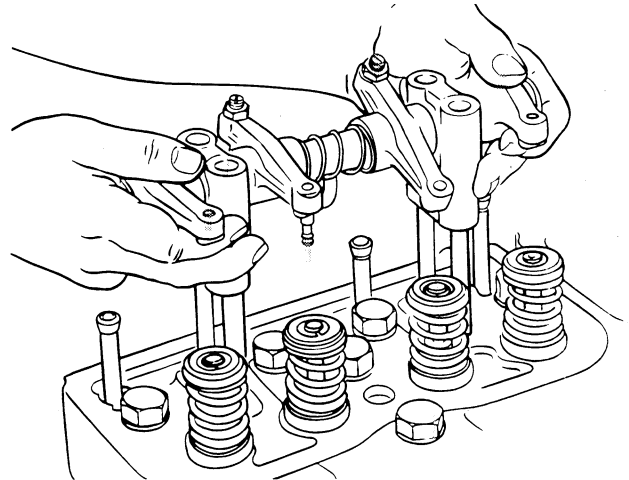
REMOVE BREATHER TUBE.

STEP 4



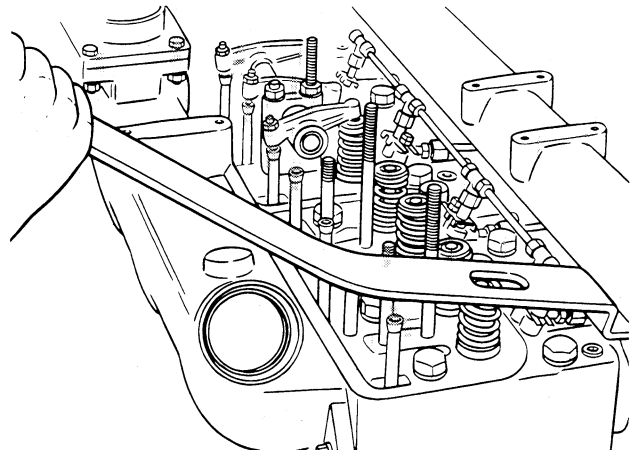
REMOVE VALVE COVER AND GASKET FROM NO. 1 AND NO. 2 CYLINDERS.

STEP 5



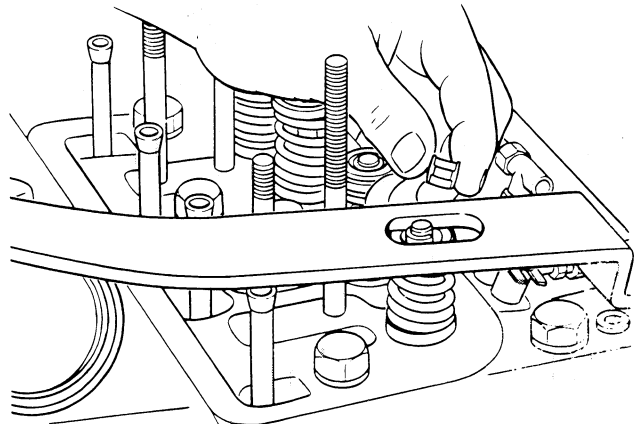
REMOVE ROCKER ARM ASSEMBLY.

STEP 6



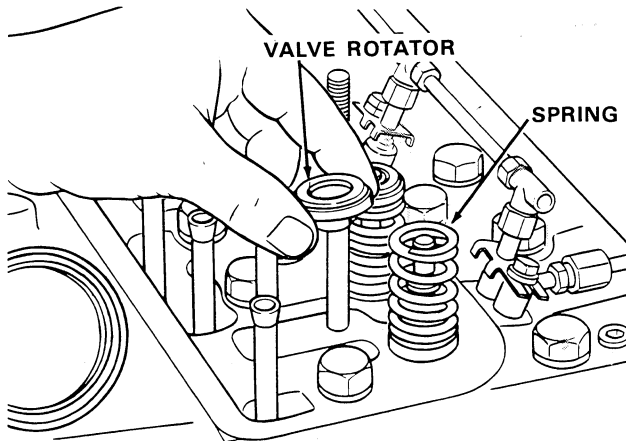
COMPRESS EXHAUST VALVE SPRING ON NO. 1 CYLINDER USING FABRICATED TOOL (SEE PAGE 3).

STEP 7



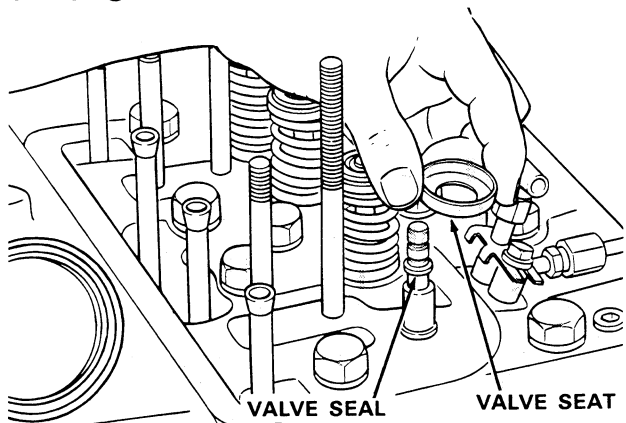
REMOVE VALVE KEEPERS

STEP 8



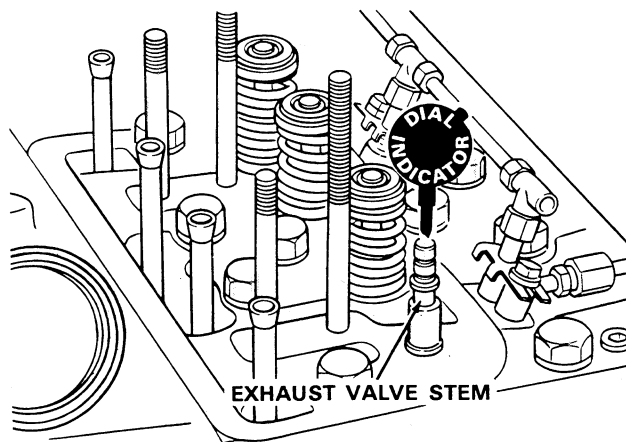
REMOVE VALVE ROTATOR, SPRING AND SEAT.

STEP 9

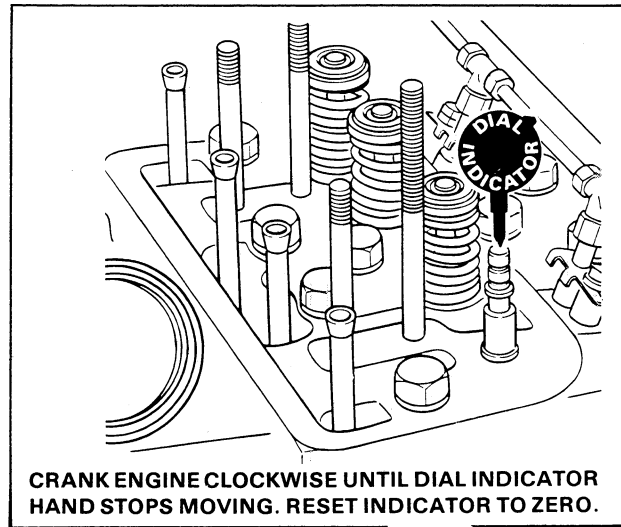


KEEP VALVE SEAL IN PLACE TO PREVENT VALVE FROM FALLING THROUGH VALVE GUIDE IF PISTON IS MOVED TOO FAR

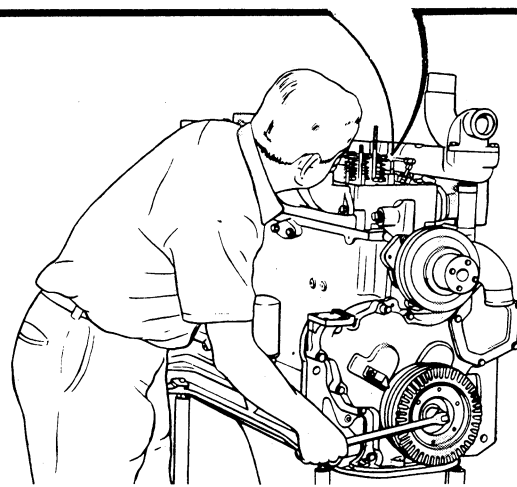
STEP 10



INSTALL DIAL INDICATOR ON END OF VALVE STEM WITH VALVE RESTING ON TOP OF PISTON.

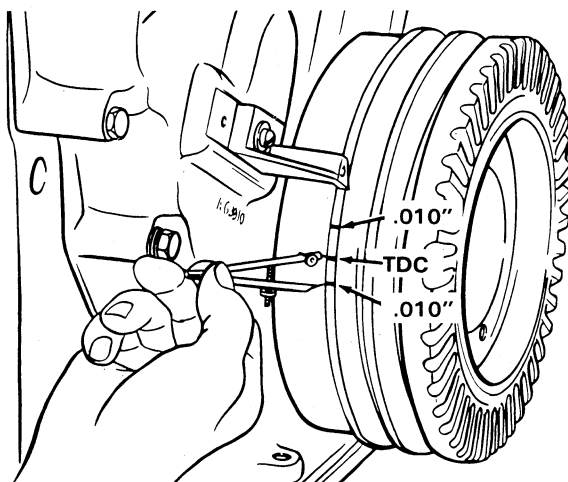


CRANK ENGINE CLOCKWISE UNTIL DIAL INDICATOR HAND STOPS MOVING. RESET INDICATOR TO ZERO.

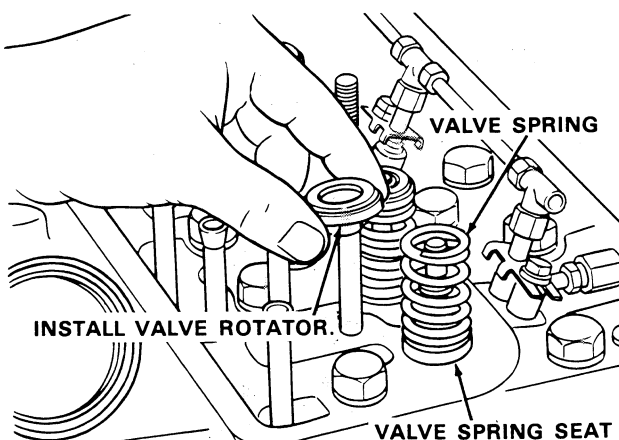
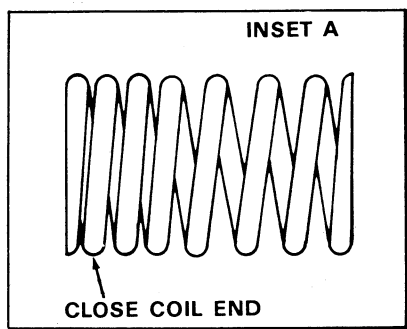


CRANK ENGINE CLOCKWISE UNTIL .010" SHOWS ON DIAL. SCRIBE A MARK ON CRANKSHAFT PULLEY IN LINE WITH TIMING POINTER.

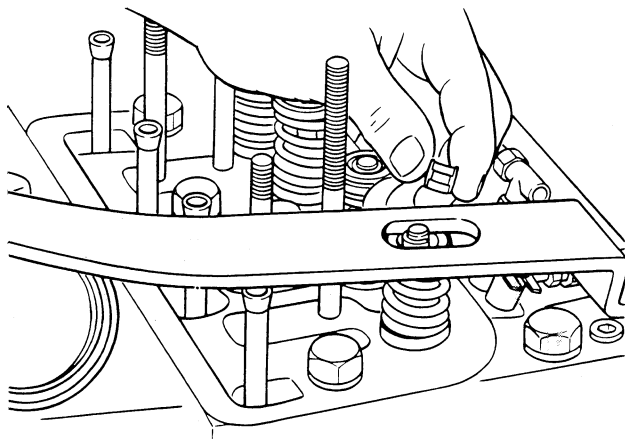
CRANK ENGINE COUNTERCLOCKWISE PAST ZERO MARK ON INDICATOR UNTIL .010" SHOWS ON DIAL. AGAIN, SCRIBE MARK ON CRANKSHAFT PULLEY.

STEP 11

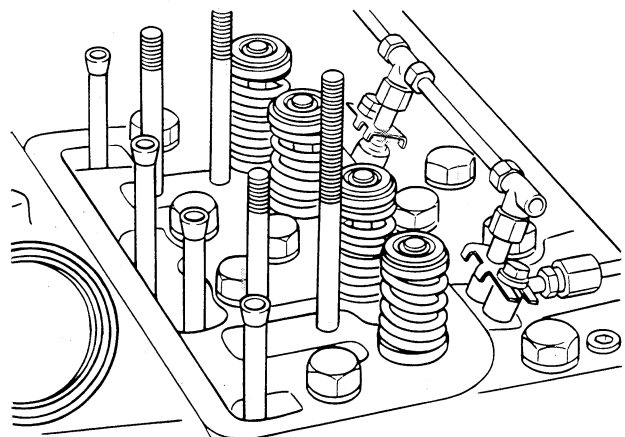
HALF THE DISTANCE BETWEEN THESE TWO SCRIBE MARKS ON CRANKSHAFT PULLEY WILL BE THE TOP DEAD CENTER (TDC) MARK. IF THE SCRIBE MARKS ARE NOT THE SAME AS ORIGINAL MARKS ON PULLEY CHECK DAMPER.

STEP 12

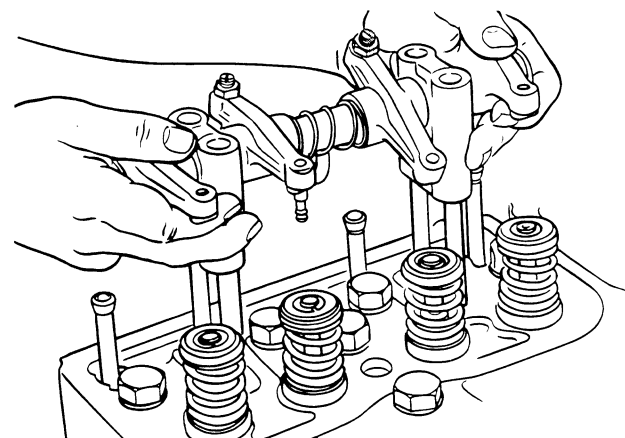
INSTALL SPRING SEAT AND VALVE SPRING. **NOTE:** IF EQUIPPED WITH VALVE SPRING HAVING ONLY ONE CLOSE COIL END, PLACE THIS END TOWARD CYLINDER HEAD, SEE INSET A.

STEP 13

COMPRESS VALVE SPRING USING FABRICATED TOOL. INSTALL SEAL IN LOWER VALVE STEM GROOVE. INSTALL VALVE KEEPERS IN OUTER VALVE STEM GROOVE.

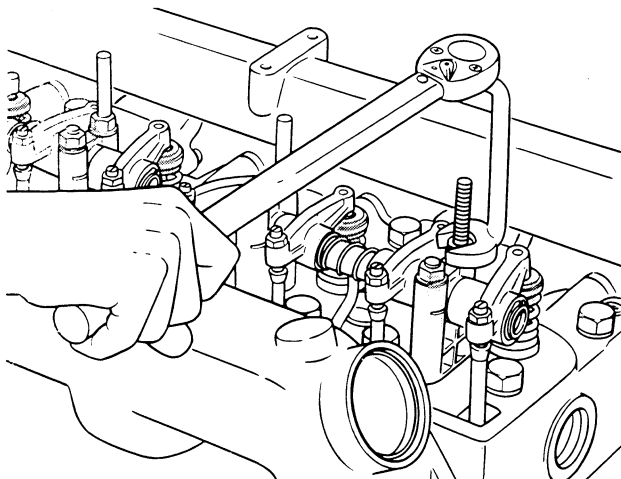
STEP 14

REMOVE SPRING COMPRESSING TOOL. TAP END OF VALVE STEM TO SEAT KEEPERS.

STEP 15

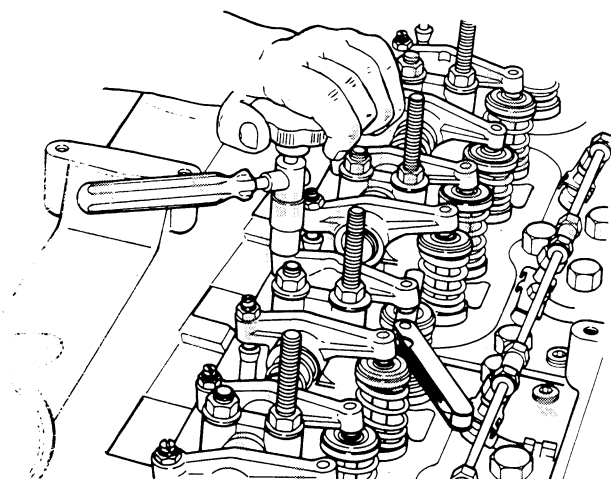
INSTALL ROCKER ARM ASSEMBLY ONTO CYLINDER HEAD.

STEP 16



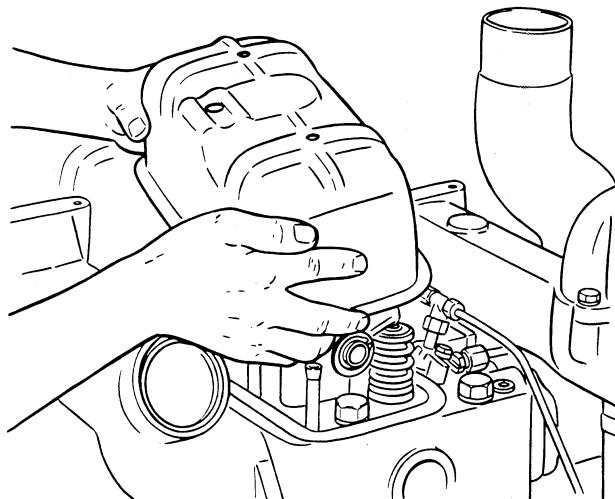
**TORQUE ROCKER ARM ASSEMBLY RETAINING NUTS
40 TO 45 FT. LBS.**

STEP 17



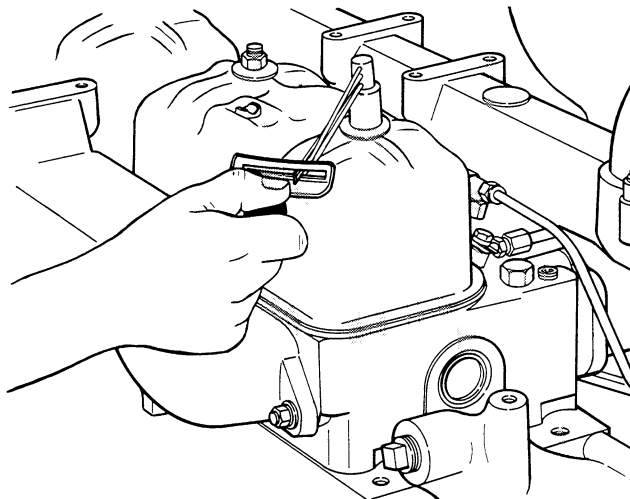
**ADJUST VALVE TAPPETS. REFER TO STEP 26
FOR COLD SETTING OR TO STEP 33 FOR HOT
SETTING.**

STEP 18



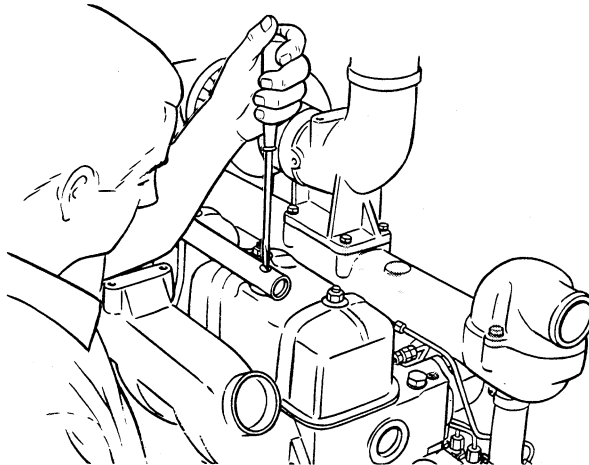
INSTALL VALVE COVERS AND GASKETS.

STEP 19



TORQUE VALVE COVER NUTS 60 TO 70 IN. LBS.

STEP 20

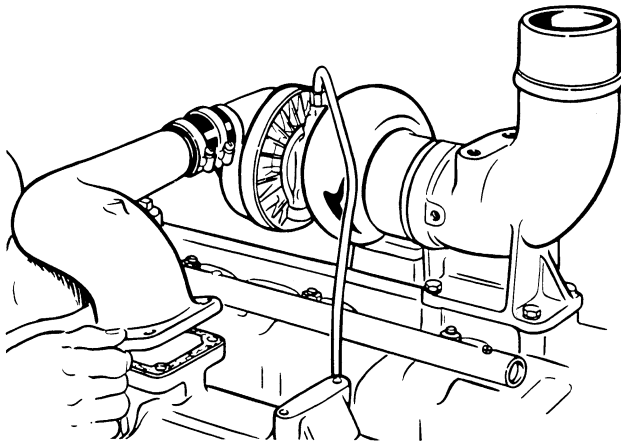


INSTALL BREATHER TUBE AND GASKETS.

Adjusting Tappets

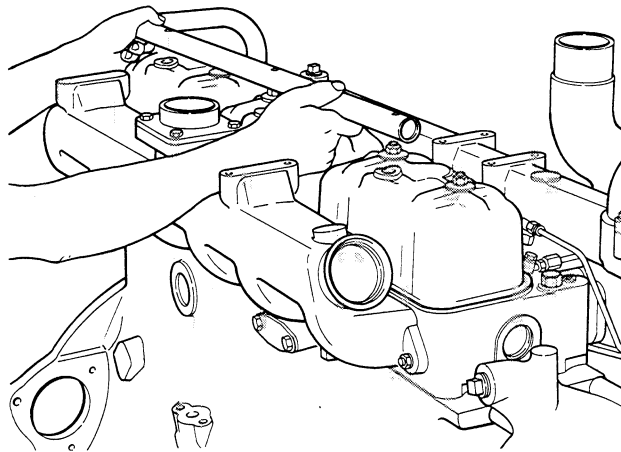
Cold Setting

STEP 21



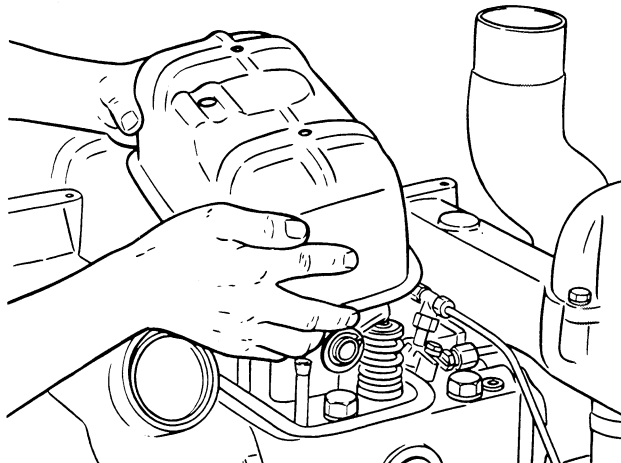
REMOVE TURBOCHARGER INTAKE ELBOW (IF SO EQUIPPED).

STEP 22



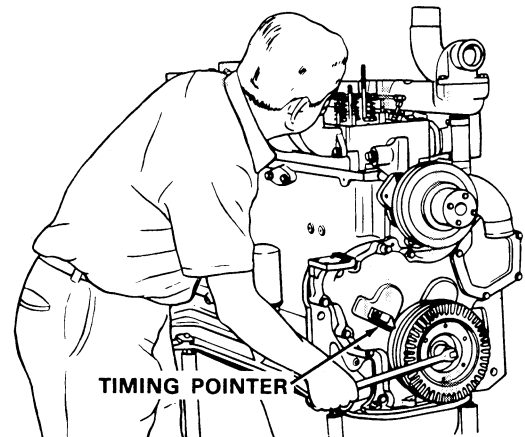
REMOVE BREATHER TUBE.

STEP 23



REMOVE VALVE COVERS AND GASKETS FROM ALL CYLINDERS.

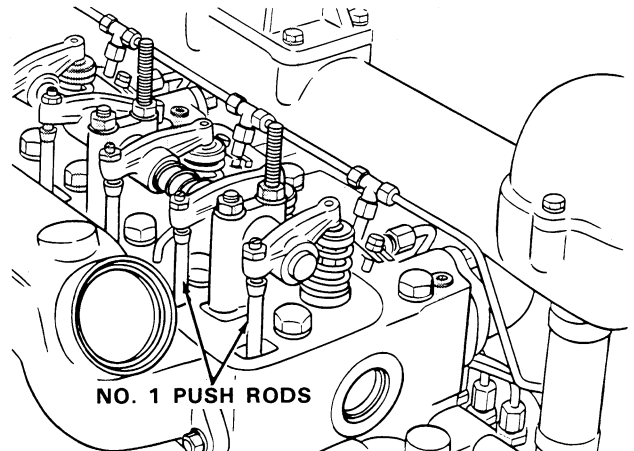
STEP 24



TIMING POINTER

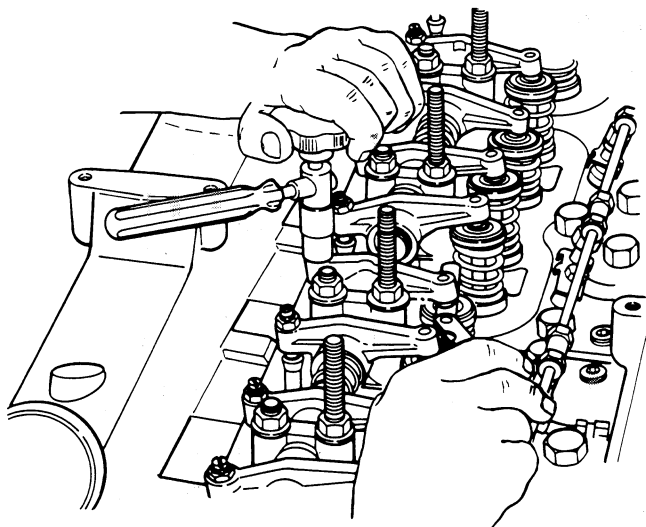
CRANK ENGINE UNTIL TIMING POINTER IS ALIGNED WITH TDC TIMING MARK ON CRANKSHAFT PULLEY.

STEP 25



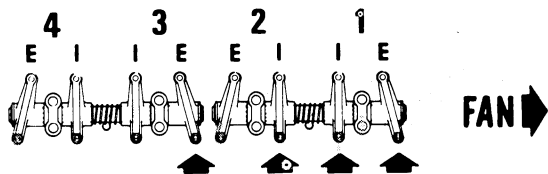
NO. 1 PUSH RODS

CHECK PUSH RODS ON NO. 1 CYLINDER FOR LOOSENESS. IF PUSH RODS ARE LOOSE, NO. 1 CYLINDER IS AT TDC ON THE COMPRESSION STROKE. IF PUSH RODS ARE TIGHT, CRANK ENGINE ONE COMPLETE REVOLUTION AND ALIGN TIMING POINTER WITH TDC MARK ON PULLEY.

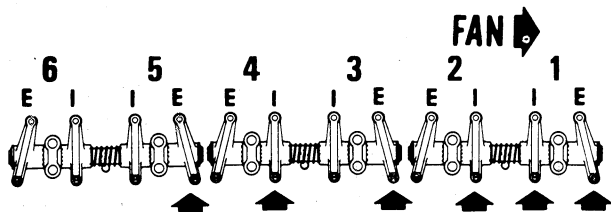
STEP 26

CHECK AND ADJUST THE INTAKE AND EXHAUST VALVES AS POINTED OUT BY THE ARROWS BELOW.

TAPPET CLEARANCE COLD - INTAKE VALVES .015"
EXHAUST VALVES - .025"

FOUR CYLINDER ENGINES

NO. 1 TDC COMPRESSION STROKE

SIX CYLINDER ENGINES

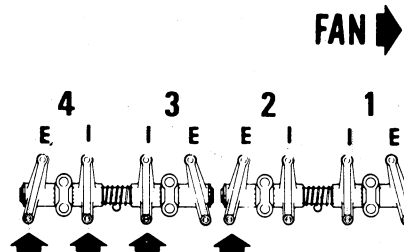
NO. 1 TDC COMPRESSION STROKE

STEP 27

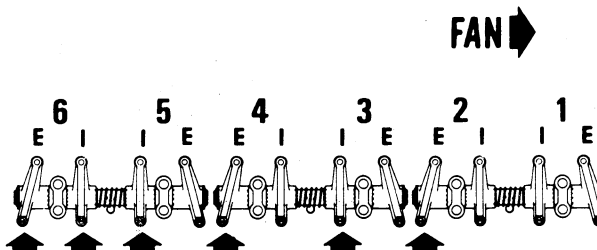
CRANK THE ENGINE ONE COMPLETE REVOLUTION AND ALIGN THE TIMING POINTER WITH THE TDC MARK ON CRANKSHAFT PULLEY.

CHECK AND ADJUST THE INTAKE AND EXHAUST VALVES AS POINTED OUT BY THE ARROWS BELOW.

TAPPET CLEARANCE COLD - INTAKE VALVES .015"
EXHAUST VALVES .025"

FOUR CYLINDER ENGINES

NO. 4 TDC COMPRESSION STROKE

SIX CYLINDER ENGINES

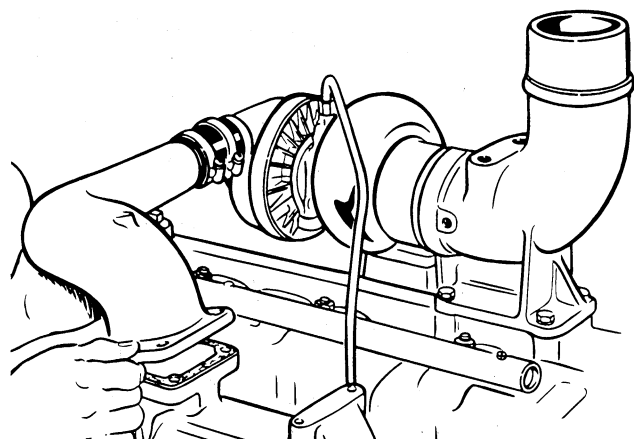
NO. 6 TDC COMPRESSION STROKE

NOTE: AFTER COMPLETING COLD SETTING VALVE TAPPET ADJUSTMENT PROCEED TO STEP 35.

Adjusting Tappets

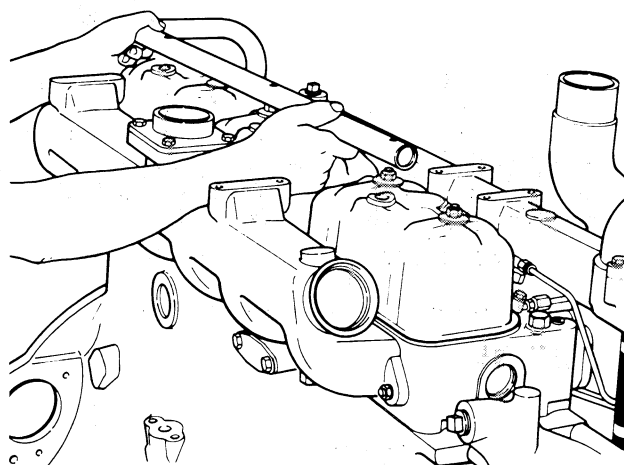
Hot Setting with Engine Stopped

STEP 28



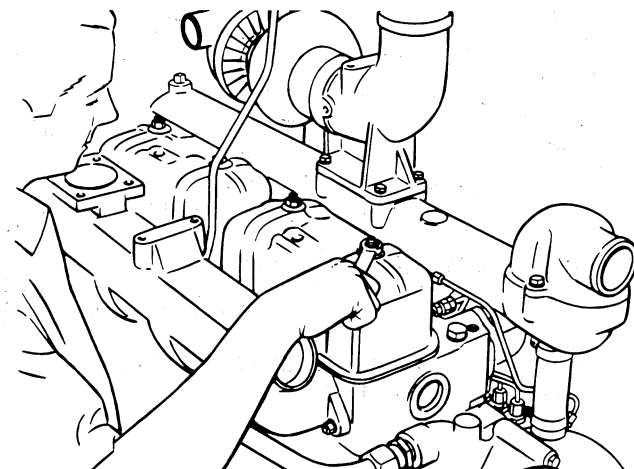
REMOVE TURBOCHARGER INTAKE ELBOW (IF SO EQUIPPED).

STEP 29



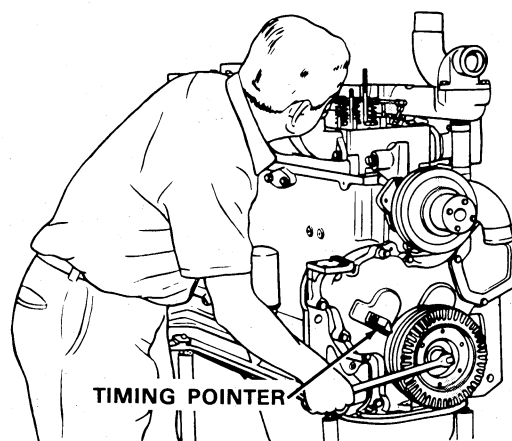
REMOVE BREATHER TUBE

STEP 30



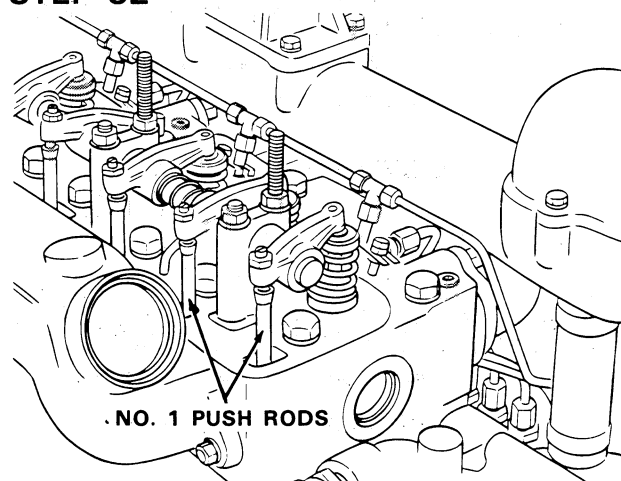
REMOVE VALVE COVERS AND GASKETS FROM ALL CYLINDERS.

STEP 31



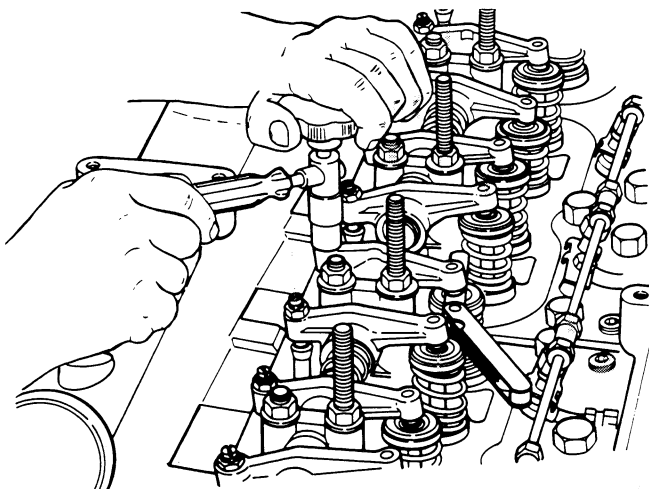
CRANK ENGINE UNTIL TIMING POINTER IS ALIGNED WITH TDC TIMING MARK ON CRANKSHAFT PULLEY.

STEP 32



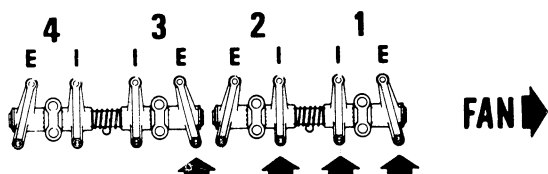
NO. 1 PUSH RODS

CHECK PUSH RODS ON NO. 1 CYLINDER FOR LOOSENESS. IF PUSH RODS ARE LOOSE, NO. 1 CYLINDER IS AT TDC ON THE COMPRESSION STROKE. IF PUSH RODS ARE TIGHT, CRANK ENGINE ONE COMPLETE REVOLUTION AND ALIGN TIMING POINTER WITH TDC MARK ON PULLEY.

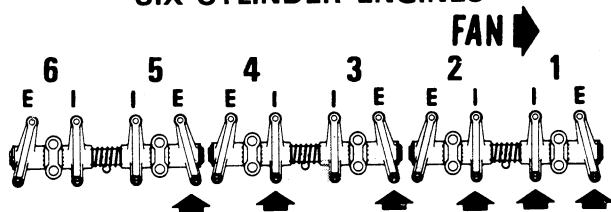
STEP 33

CHECK AND ADJUST THE INTAKE AND EXHAUST VALVES AS POINTED OUT BY THE ARROWS BELOW.

TAPPET CLEARANCE HOT - INTAKE VALVES .015"
EXHAUST VALVES .020"

FOUR CYLINDER ENGINES

NO. 1 TDC COMPRESSION STROKE

SIX CYLINDER ENGINES

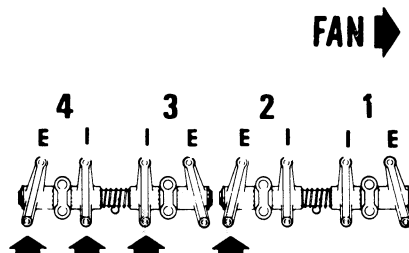
NO. 1 TDC COMPRESSION STROKE

STEP 34

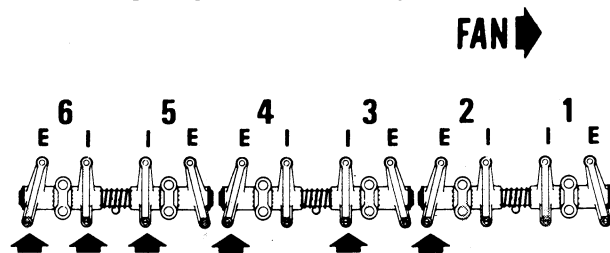
CRANK THE ENGINE ONE COMPLETE REVOLUTION AND ALIGN THE TIMING POINTER WITH THE TDC MARK ON CRANKSHAFT PULLEY.

CHECK AND ADJUST THE INTAKE AND EXHAUST VALVES AS POINTED OUT BY THE ARROWS BELOW.

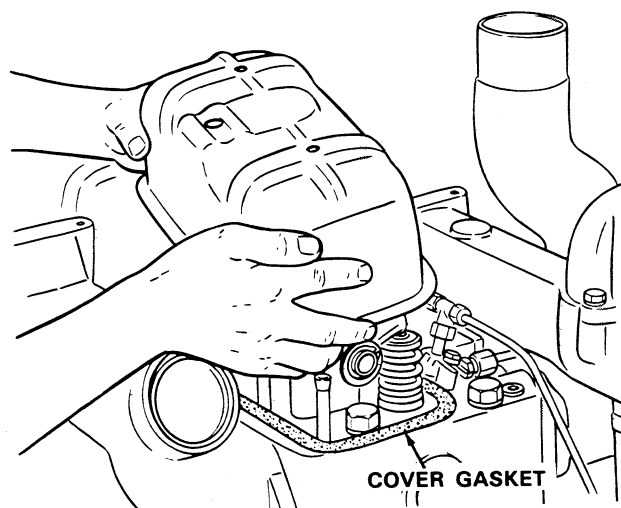
TAPPET CLEARANCE HOT - INTAKE VALVES .015"
EXHAUST VALVES .020"

FOUR CYLINDER ENGINES

NO. 4 TDC COMPRESSION STROKE

SIX CYLINDER ENGINES

NO. 6 TDC COMPRESSION STROKE

STEP 35

AFTER TAPPET ADJUSTMENT, INSTALL VALVE COVERS AND GASKETS.



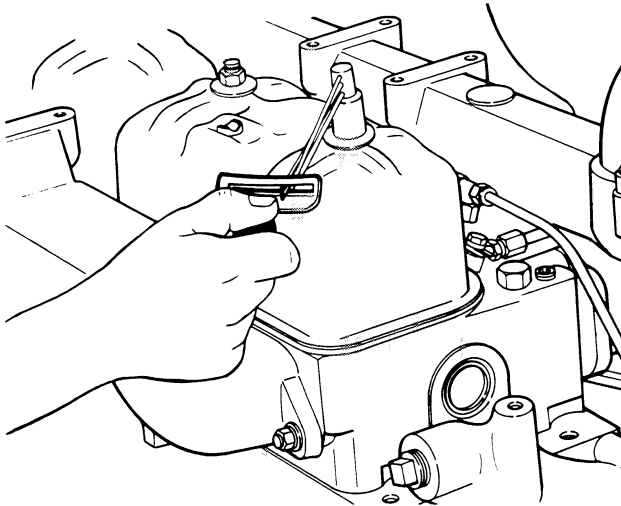
Suggest:

If the above button click is invalid.

Please download this document first, and then click the above link to download the complete manual.

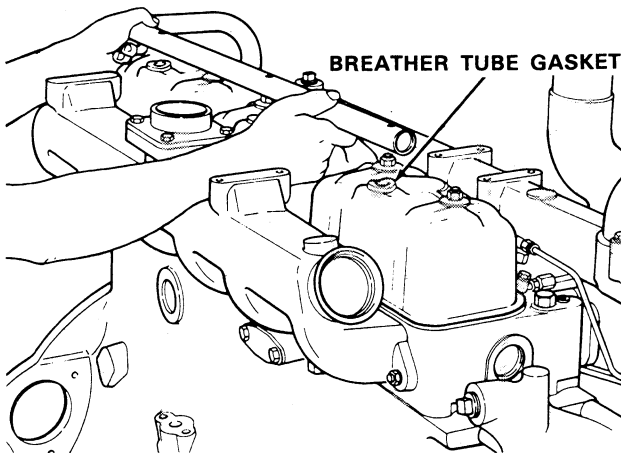
Thank you so much for reading

STEP 36



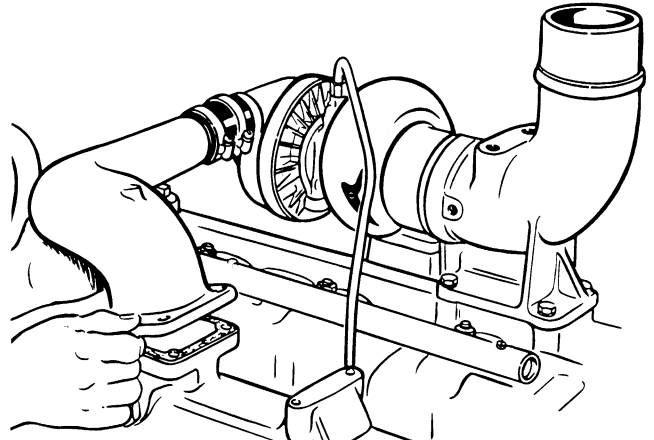
TORQUE VALVE COVER NUTS 60 TO 70 IN. LBS.

STEP 37



INSTALL BREATHER TUBE AND GASKETS.

STEP 38



INSTALL TURBOCHARGER INTAKE ELBOW

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