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MANUAL PREVIEW

J.I. Case

Service Manual

Service Tools

For L, C, CO & CC

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CA-S-TOOLS

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CASE

SERVICE

TOOLS

MANUAL PREVIEW

Instructions for
Use of Case Service Tools
for Repair Work on

CASE

MODELS "L", "C", "CO"

AND "CC" TRACTORS

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Fig. 2. Refer to This Illustration in Making Up Composite Tools.

NOTE: Thimble No. 02842-AB and Gauge No. 02890-AB-1 are not Illustrated.

Quantity

Part No.

Description

1	029-W	Wrench for magneto drive coupling.
1	3341-A	Cylinder barrel puller crab.
2	4780-A	Puller hooks.
1	01940-AB	Clutch adjusting tool.
1	01974-AB	Puller plate.
2	01977-AB	Pins for use in splitting Model "L" Tractor.
2	02064-AB	Pins for use in splitting Model "C" Tractor.
1	02140-AB	Model "C" cylinder barrel puller plate.
1	02214-AB	Thimble.
1	02639-AB	Puller clamp.
1	02640-AB	Puller adjusting screw— $2\frac{5}{16}$ " long.
1	02641-AB	Puller hook bolt (straight hole).
1	02642-AB	Puller hook bolt (tapped hole).
1	02643-AB	Puller clamp.
1	02644-AB	Puller adjusting screw— $2\frac{3}{4}$ " long.
1	02645-AB	Puller hook bolt (straight hole).
1	02646-AB	Puller hook bolt (tapped hole).
1	02647-AB	Puller adjusting screw— $3\frac{7}{16}$ " long.
1	02648-AB	Puller plate.
1	02649-AB	Puller bolt ($5\frac{3}{4}$ " long).
2	02650-AB	Puller hooks.
1	02651-AB	Puller yoke.

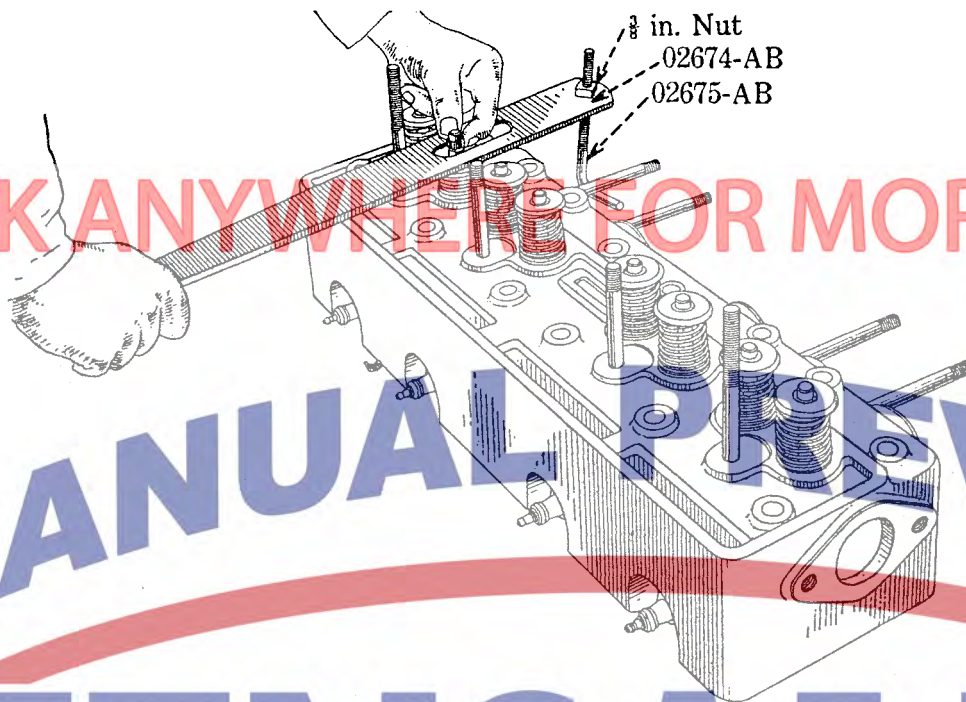


Fig. 4. Use of Valve Spring Compressor 402-AA to Remove Valves

TO RECONDITION VALVE SEATS

Lack of compression in one or more cylinders is one of the chief sources of lack of power. An engine with poor compression is inefficient and should not be kept in service in such condition. It is very simple to test an engine for compression leaks by cranking, but the engine should be run until it has warmed up to working temperature and the valves and other parts properly oiled before such a test is made. Testing of compression by cranking when the cylinders are cold is mis-leading. If in cranking a warm engine there is not a marked resistance as each cylinder is on the compression stroke, it is probably because of compression leaks past the valves or if the engine has been operated for some months there may be compression leaks past the piston rings which requires replacement of rings or pistons to put in good condition.

If the compression is poor, remove the valve cover and squirt kerosene on the valve stems and rocker arms to remove any gummy oil accumulation and then oil with light oil. Many times the valves will seat tight after this is done.

Tractor owners should not be alarmed if they hear a slight amount of compression escaping past the valve seats, as valves seldom remain absolutely tight in service and slight leaks are quite noticeable due to the exhaust pipe being so close to the man cranking the engine. Generally speaking, if the tractor has good power, it is best to leave the valves alone. It is time enough to recondition valve seats when they are known to be the cause of lack of power.

4. Use puller No. 394-AA to remove barrels from Model "L" Tractor. The plate No. 02661-AB (not shown in Fig. 5) is used at lower end of barrel.
Use puller No. 395-AA to remove barrels from Models "C," "CC" or "CO" Tractor. The plate No. 02140-AB (not shown in Fig. 5) is used at lower end of barrel.
5. Remove the rubber gasket and clean the lower groove in cylinder block where rubber gasket fits. See that the top shoulder on barrel is clean.
6. Fig. 5. Put new rubber gasket down in lower groove of cylinder block. Be sure to have gasket in groove. Do not use the gasket removed from block the second time.
7. Put a little grease around rubber gasket when it is in place and put a little grease around lower edge and side of barrel, before putting in block.
8. Put barrel down in place. When lower end of barrel strikes rubber gasket turn the barrel slowly pressing down at the same time. After end of barrel has entered the gasket, drive barrel down by using a block of wood and a hammer until barrel is in place. The barrel will pull down more when cylinder head is put on and tightened down.
9. The cylinder barrels should be from .001" to .003" higher than surface of block.



Fig. 6. Pulling Model "L" Fan Hub with Puller 386-AA.

FAN AND WATER PUMP—MODEL "L" TRACTOR (See Figs. 6 and 7)
 TOOLS USED—02677-AB Round end wrecking bar.

386-AA Puller, consisting of—

- 2—02655-AB Hooks.
- 1—02651-AB Yoke.
- 1—02652-AB Screw.
- 2—02653-AB Pins—2½" long.
- 4—3/32" x 5/8" Cotter pins.
- 2—1/4" x 1 1/4" Dog pointed set screws.

02796-AB Anvil