

PROCEDURE TO HIGH COMPRESSION MODEL "G" TRACTOR SERIAL G13000 & UP

Parts required:

- 1 - AF 494 Cylinder Head
- 1 - AF 484 Int. Valves (Set)
- 1 - AF 550 Exhaust Valves (Set)
- 1 - AF 1076 Gasket (Set)
- 9 - F 56 Head studs or cut and rethread
old studs to 6-7/8"
- 1 - F 89 Lower water hose
- 2 - F 90 Hose Clamps
- 1 - Gasoline manifold supplied by order from
Grinnell Farm Eq. Inc. Yellow Springs, O.

DISASSEMBLY

Remove generator and bracket, carburetor, valve cover, rocker arms, lower water pipe, cylinder head, and cylinder head studs.

If tractor has been used for more than a year it might be well to install a new set of rings and check the rod and main bearing clearance.

The push rods will have to be shortened by removing 7/8 inch out of the center and welding them back together.

ASSEMBLY

Install new head studs (F56) or cut old studs down to 6-7/8 inch and rethread, cut and rethread manifold studs that come with the new head to fit the gasoline manifold. Install manifold on cylinder head.

Install new valves making sure they are seated properly.

Install cylinder head, push rods and rocker arms. Set valves .020 clearance

Install lower water pipe using the inlet pipe that comes with the new head. Cut 1" off water pipe for easier installation and use the F 89 water hose to connect up.

Install valve cover. Install carburetor. Cut 1" off throttle rod, rethread, adjust to proper setting.

Install air inlet pipe to carburetor. This can be accomplished by pulling the inlet pipe into place with the bolts. The air inlet hose is flexible enough to allow this to be done.

Install exhaust pipe. Insert top end first and pull the bottom end in with the bolts.

Install generator and bracket.

Check ignition timing. If a magneto is used set lag angle at 25°. If battery ignition is used check the points, set to ~~.010 clearance~~, then check timing with the engine.

This was with a package of information from the Columbus, Ohio Branch House, undated. Note the call for a manifold from a local supplier – likely a Johnson manifold.