

# John Deere LP-Gas Engine for 45, 55 and 95 Combines



## OPERATORS MANUAL

John Deere LP-Gas Engine for 45, 55  
and 95 Combines

OMH90861 (01NOV61) English

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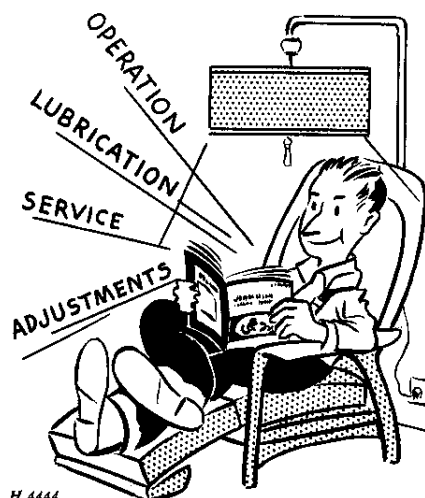
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## To the purchaser

The instructions in this manual supplement those in your regular combine operator's manual. This supplement contains only the information for your LP-Gas engine and related parts which is different from information for the regular gasoline engine.

If you should find that you require information not covered in this supplement or your regular combine operator's manual, consult your John Deere dealer. He will be glad to answer any question that may arise regarding the operation and handling of the combine or engine. He has trained mechanics who are kept informed on the best methods of John Deere combine and engine servicing and can give you prompt know-how service in the field or in his shop.

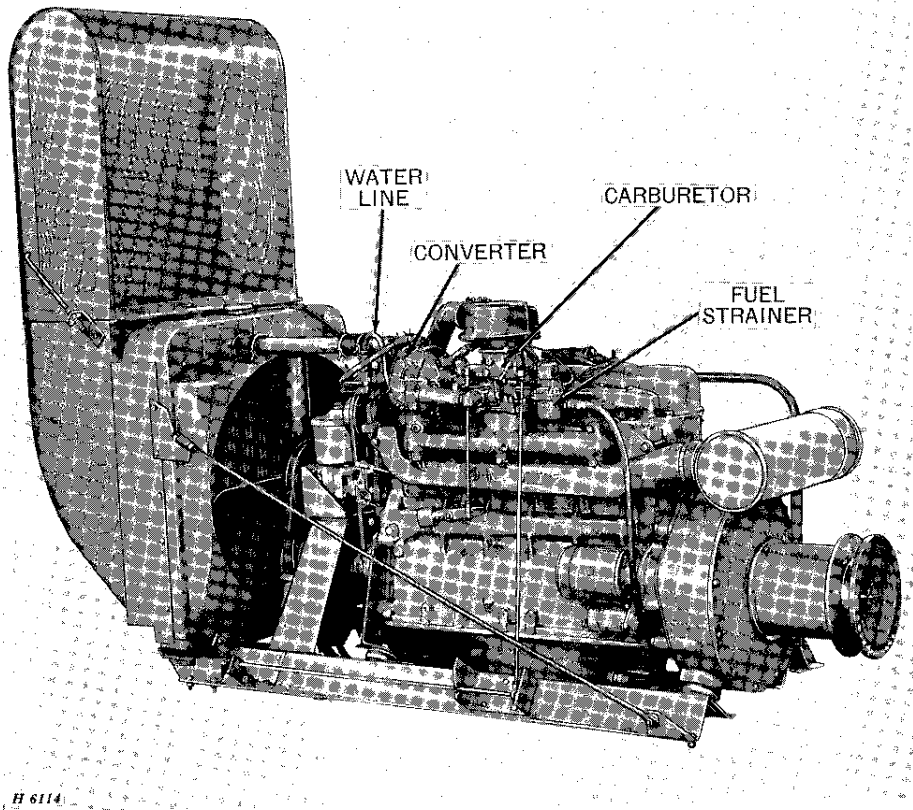


Study this supplement carefully, keep it handy with your regular combine operator's manual, in a safe place, for future reference.

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# Specifications



HE-217L Engine

	45 Combine	55 and 95 Combines
Make of engine . . . . .	John Deere HC-145L	John Deere HE-217L HB-248L*
Bore . . . . .	3-5/8 In.	3-5/8 In.
Stroke . . . . .	3-1/2 In.	3-1/2 In.
Brake horsepower . . . .	52.8 +	71.5+ 86*+
Number of cylinders . .	4	6

+ Calculated at 60° F. and 29.92 inches of Hg. at sea level.  
\*For 95 combines only.

2 specifications

	45 Combine	55 and 95 Combines
Piston displacement . . .	145 Cu. In.	217 Cu. In. 248 Cu. In.*
Compression ratio . . .	8.2 to 1	8.2 to 1
Speed at full load . . . .	2500 rpm	2200 rpm 2500 rpm*
Firing order . . . . .	1-3-4-2	1-5-3-6-2-4
Type of lubrication . . .	Force feed by gear pump to all connecting rods, main bearings, and oil pump drive, oil strainer in bottom of pan	Force feed by gear pump to all connecting rods, main bearings, and oil pump drive, oil strainer in bottom of pan
Valve arrangement . . .	Valve-in-head	Valve-in-head
Intake valve clearance .	.012	.012
Exhaust valve clearance	.018	.018
Make of governor . . . .	Pierce	Pierce
Make of carburetor . . .	Marvel-Schebler	Marvel-Schebler
Spark plug . . . . .	Champion H-10 or Auto Lite AL-7 or AC-45-L, Gap .025 In. Heat range 1200° F. to 1500° F.	Champion H-10 or Auto Lite AL-7 or AC-45-L, Gap .025 In. Heat range 1200° F. to 1500° F.
Type of fuel . . . . .	LP-Gas	LP-Gas
Capacities (Approx.)		
Fuel tank . . . . .	37 U.S. gallons	56 U.S. gallons 66 U.S. gallons*
Cooling system (radiator) . . . . .	6 U.S. gallons	6 U.S. gallons
Engine crankcase . . .	7 U.S. qts. including oil filter	7 U.S. qts. including oil filter
Air cleaner . . . . .	1 U.S. quart	1 U.S. quart

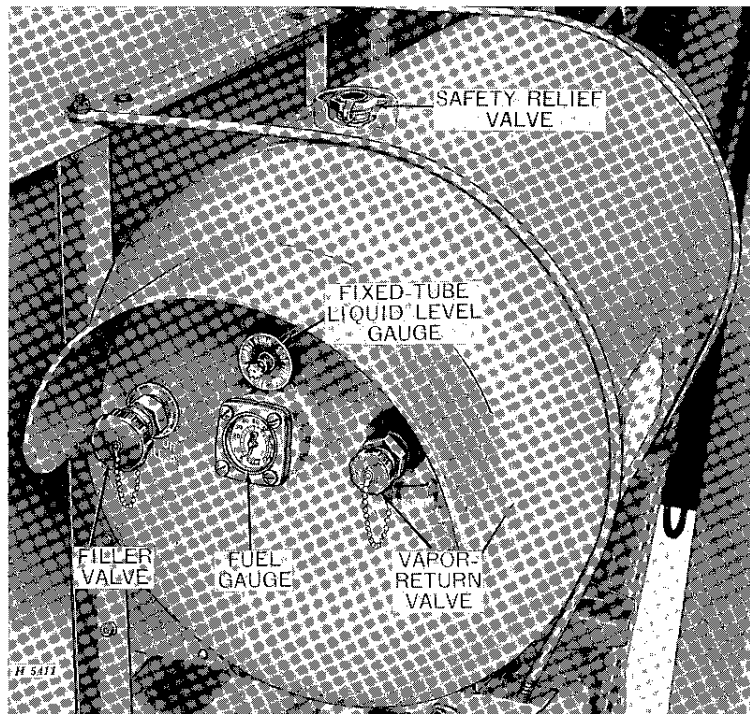
*(Specifications and design subject to change without notice.)*

# Operation

## Equipment and controls

The LP-Gas fuel equipment, illustrated and described on the following pages, has been granted the

approval of the Underwriters' Laboratories.



Fuel tank with valves and gauges (45 Combine illustrated)

### Fuel tank

The fuel tank is of heavy welded steel construction with a fuel capacity of 37 gallons on the 45 combine, 56 gallons on the 55 combine and 66

gallons on the 95 combine. *NOTE: Capacities listed are based on 85% fill of the total volume of the tanks. The tanks should not be filled more than 85% of total volume because LP-Gas expands as temperature rises.*

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