

# Information and Instructions

This individual shop manual is one unit of a series on wheel type tractors. Contained in it are the necessary specifications and the brief but terse procedural data needed by a mechanic when repairing a tractor on which he has had no previous actual experience.

The material is arranged in a systematic order beginning with an index which is followed immediately by a Table of Condensed Service Specifications. These specifications include dimensions, fits, clearances and timing instructions. Next in order of arrangement is the procedures paragraphs.

In the procedures paragraphs, the order of presentation starts with the front axle system and steering and proceeding toward the rear axle. The last paragraphs are devoted to the power take-off and power lift systems. Interspersed where needed are additional tabular specifications pertaining to wear limits, torquing, etc.

## HOW TO USE THE INDEX

Suppose you want to know the procedure for R&R (remove and reinstall) of the engine camshaft. Your first step is to look in the index under the main heading of ENGINE until you find the entry "Camshaft." Now read to the right where under the column covering the tractor you are repairing, you will find a number which indicates the beginning paragraph pertaining to the camshaft. To locate this wanted paragraph in the manual, turn the pages until the running index appearing on the top outside corner of each page contains the number you are seeking. In this paragraph you will find the information concerning the removal of the camshaft.

# SHOP MANUAL

# INTERNATIONAL HARVESTER

**SERIES**  
**3088-3288-3488 Hydro-3688**

Engine serial number is stamped on right side of engine crankcase on Models 3088 and 3288. On Models 3488 Hydro and 3688, engine serial number is stamped on left side of engine crankcase. On all models, tractor serial number is stamped on name plate attached to right side of rear frame. Cab/ROPS serial and model numbers are stamped on a plate attached on right side.

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This service manual provides specifications in both the U.S. Customary and Metric (SI) system of measurements. The first specification is given in the measuring system used during manufacture, while the second specification (given in parenthesis) is the converted measurement. For instance, a specification of "0.011 inch (0.279 mm)" would indicate that the equipment was manufactured using the U.S. system of measurement and the metric equivalent of 0.011 inch is 0.279 mm.

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## CONDENSED SERVICE DATA

	3088	3288	3488 Hydro	3688, 3688 Hi-Clear
<b>GENERAL</b>				
Engine Make .....	IH	IH	IH	IH
Engine Model .....	D-358	D-358	D-466	D-436
Number of Cylinders .....	6	6	6	6
Bore .....	3.875 in. (98.4 mm)	3.875 in. (98.4 mm)	4.30 in. (109.2 mm)	4.30 in. (109.2 mm)
Stroke .....	5.062 in. (128.6 mm)	5.062 in. (128.6 mm)	5.35 in. (135.9 mm)	5.04 in. (128.0 mm)
Displacement .....	358 cu. in. (5.9 L)	358 cu. in. (5.9 L)	466 cu. in. (7.6 L)	436 cu. in. (7.2 L)
Cylinder Sleeves .....	Wet	Wet	Wet	Wet
Alternator and Starter Make .....	Delco-Remy, Motorola or Niehoff			
Battery Terminal Grounded .....	Negative			
Compression Pressure* .....	315-340 psi (2170-2345 kPa)		385-415 psi (2650-2860 kPa)	
Firing Order .....	1-5-3-6-2-4			
Valve Clearance—				
Intake .....	0.012 in. (0.3 mm)	0.012 in. (0.3 mm)	0.025 in. (0.64 mm)	0.025 in. (0.64 mm)
Exhaust .....	0.012 in. (0.3 mm)	0.012 in. (0.3 mm)	0.025 in. (0.64 mm)	0.025 in. (0.64 mm)