3088,3288,3488,3688 Hydro Tractors

Operators Manual

1258513C5

Reprinted





This symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED. The message that follows the symbol contains important information about your safety. Carefully read the message. Make sure you fully understand the causes of possible injury or death.

SB001

IF THIS MACHINE IS USED BY AN EMPLOYEE, IS LOANED, OR IS RENTED, MAKE SURE THAT THE OPERATOR UNDERSTANDS THE TWO INSTRUCTIONS BELOW.

BEFORE THE OPERATOR STARTS THE ENGINE:

- 1. GIVE INSTRUCTIONS TO THE OPERATOR ON SAFE AND CORRECT USE OF THE MACHINE.
- 2. MAKE SURE THE OPERATOR READS AND UNDERSTANDS THE OPERATOR'S MANUAL FOR THIS MACHINE.



IMPROPER OPERATION OF THIS MACHINE CAN CAUSE INJURY OR DEATH.

BEFORE STARTING THE ENGINE, DO THE FOLLOWING:

- 1. READ THE OPERATOR'S MANUAL.
- 2. READ ALL SAFETY DECALS ON THE MACHINE.
- 3. CLEAR THE AREA OF OTHER PERSONS.

LEARN AND PRACTICE SAFE USE OF MACHINE CONTROLS IN A SAFE, CLEAR AREA BEFORE YOU OPERATE THIS MACHINE ON A JOB SITE.

It is your responsibility to observe pertinent laws and regulations and to follow manufacturer's instructions on machine operation and maintenance.

See your Authorized Case dealer for additional operator's manuals, parts catalogs, and service manuals.

TO THE OWNER

Be sure this operators manual is kept with the machine at all times, regardless of ownership.

Before you operate the tractor study this manual carefully. It has been prepared to help you operate and maintain your tractor with utmost efficiency.



This symbol is used to call your attention to instructions concerning your personal safety. Be sure to observe and follow these instructions.

Assembled in this manual are operation, lubrication and maintenance instructions for the International 3088, 3288, 3488-HYDRO and 3688 tractors. This material has been prepared in detail in the hope that it will help you to better understand the correct care and efficient operation of your new tractor.

For prompt, efficient service, always specify the tractor model and serial numbers, including prefix and suffix letters. Write these serial numbers in the spaces provided under "Serial Numbers".

Your new International Harvester tractor is designed to meet today's exacting operating requirements. The ease and comfort of operation, the ability to match ground speeds to engine power and work requirement, and the effortless versatility of the hydraulic system are intended to lighten your work and shorten your hours on the job.

Your local International Harvester dealer is interested in the performance you receive from these tractors. He has factory-trained servicemen, informed in the latest method of servicing tractors, modern tools, and originalequipment IH service parts which assure proper fit and good performance.

To obtain top performance and assure economical operation the tractor should be inspected, depending on its use, periodically. or at least once a year by your International Harvester Dealer.



Universal symbols are used to pictorially identify various tractor instruments and controls.

Throughout this manual, an identifying symbol is placed by the instructions like this example for engine coolant temperature. The waves signify water or coolant and the thermometer indicates temperature. Regardless of the language used in a nation, and without translation, this symbol means water or coolant temperature.

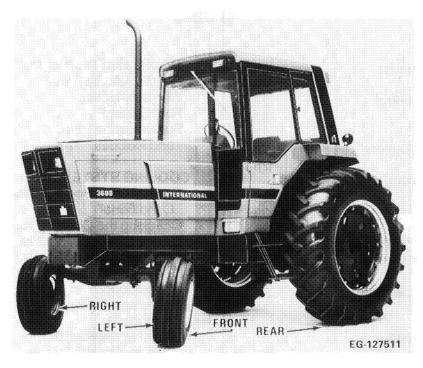
Optional equipment and accessories are available. Disregard the instructions for equipment not on your tractor.

METRIC (SI) MEASUREMENTS

A standard of metric measurement known as International System of Units (SI) has been adopted for worldwide use. English Units and Metric Units are used throughout this manual. (Equivalents are given in parenthesis.)



CAUTION: Some photographs in this manual may show shields or cover panels removed for pur-elarity. NEVER OPERATE Unit poses of clarity. without all shields and cover panels in place.



3688 with optional equipment

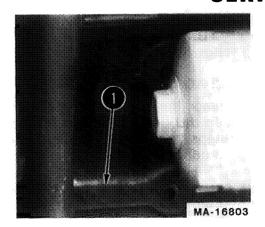
TO THE OWNER	Inside Front	INSTRUMENTS AND CONTROLS	18-35
	Cover	Tractors Equipped with	
			18
SERIAL NUMBERS	5		
		Data Center	19
WORK SAFELY—FOLLOW		Seats	21
THESE RULES	6-10		
Servicing and Before Starting	6		
Starting			22
During Operation	7		23
Transporting	7		23
Tractors with Control			24
Centers	8		24
Tractors without ROPS	8		24
Before Dismounting	8		24
Dismounting	8		24
After an Upset	8		25
Product Graphics	9		25
	Speedometer-Tachometer Tractors Equipped with Data Center Seats 6-10 Power Take Off, Hitch, Hydraulic Valves and Transmission Controls Transmission Controls Park Lock Control Gauge and Tellite Cluster Turn Signal Indicator Engine Oil Pressure Gauge Coolant Temperature Gauge Fuel Gauge Voltmeter	25	
INCH-METRIC HARDWARE	11		25
HADDWADE TODOUE DATA	40.40	Transmission Oil Pressure	
HARDWARE TORQUE DATA	12-16	Tellite (Gear Drive)	25
ENERCY CONCERVATION		Transmission Oil Pressure	
ENERGY CONSERVATION—		Tellite (Hydrostatic Drive)	25
FOLLOW THESE	4=		
RECOMMENDATIONS	17		25
		• •	26

Control Center Interior	27	ENGINE AND FUEL SYSTEM	46-51
Blower Control	27	Engine Access Panels	48
Air Conditioner Control	27	Warranty Notice	49
Heater Control	27	Fuel System	49
Air Recirculation	27	Fuel Injection Pump	
Air Flow Control Louvers	28	and Nozzles	51
Defroster	28		
Refrigerant Pressure	20	COOLING SYSTEM	52-55
Indicator Light	28	Coolants and Cooling System	
Dome Light	29	Conditioner	52
Radio	29	Checking the Coolant Level	52
Cigarette Lighter and Ashtray	29	Draining the Cooling System	54
Windshield Wiper Control	30	Filling the Cooling System	54
Data Center	30	Coolant System Filter	0.
Exhaust Gas Temperature	33	Conditioner	54
Seat Adjustments	34	Hoses and Clamps	55
ood / tajustinents	34	Thermostat	55
BEFORE OPERATING		Cleaning the Radiator,	55
YOUR TRACTOR PERATING THE TRACTOR Neutral Starting Switches	36	Transmission Oil Cooler	
TOOK MACTOR	30	and Condenser Core Fins	55
OPERATING THE TRACTOR	00.45	Water Pump, Alternator-	33
	36-45	Generator and Fan Belt	
Starting the Engine	36	Tension	55
Break-In Procedure	36	161131011	55
	38	AIR CLEANING SYSTEM	56-59
With the Engine Running	38		
Stopping the Engine	39	Aspirated Air Cleaner	56 56
Steering the Tractor	39	Automatic Dust Unloader	56 50
Driving the Tractor	39	General Precautions	56
(Gear Drive)		Removing and Cleaning	
Hydraulic Powered		the Primary Element	57
Clutch Control	40	Inspection	58
Selecting Ground Speeds	40	Removing the Secondary	
(Gear Drive)		Element	58
Stopping the Tractor	41	-	
(Gear Drive)		ELECTRICAL SYSTEM	60-65
Park	42	Fuses	60
Driving the Tractor		Instrument Light Dimmer	
_(Hydrostatic Drive)	42	Switch	61
Foot-n-inch Pedal		Turn Signal Indicators	61
(Hydrostatic Drive	42	Charging System for	
Selecting Ground Speeds		Alternator-Generator	61
(Hydrostatic Drive)	43	Cranking System	62
Stopping the Tractor		Lighting System	62
(Hydrostatic Drive)	44	Lights	62
Park	44	Combination Turn Signals	
Starting Procedure for	-	and Warning Lights	62
Hydrostatic Drive Tractors		Tellites	63
After Transporting on		Batteries	63
Truck or Flatcar	44	Electrical Connector	65
Towing the Tractor	45	Implement Auxiliary Wire	65

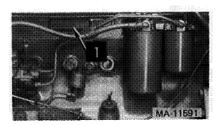
HYDRAULIC CONTROLS FOR THREE POINT HITCH OPEN CENTER HYDRAULIC SYSTEM AUXILIARY VALVES, REMOTE CYLINDERS AND HYDRAULIC OUTLETS— OPEN CENTER	
Position Control 66 HYDRAULIC SYSTEM Position Control Lock Lever 66 Color Code Adjustable Stop 67 Connecting Hoses to the	91-97 91
Draft Control 67 Rear Hydraulic Outlets Run Range 68 Check Valves	94 96
HYDRAULIC CONTROLS FOR THREE POINT HITCH Operating Double-Acting Cylinders Operating Single-Acting	96
POWER PRIORITY Cylinders	96
HYDRAULIC SYSTEM 69-72 Neutral Lock	96
Position Control 69 Float Lockout	96
Position Control Lock Lever 69 Adding Fluid After Adjustable Stop 70 Connecting Cylinders	
Adjustable Stop 70 Connecting Cylinders Draft Control 70 and Hoses	97
Run Range 71 Freeing the System of	91
Raise Rate Control 71 Trapped Air	97
Hitch Drop Rate Adjustment 72 Simultaneous Raise	97
Sequential Raise	97
THREE-POINT HITCH 73-84 Valve Detents and Unlatching	97
Hitch Upper Link 75 Continuous or Long Term	
Telescoping Lower Links 75 Hydraulic Application	97
Claw Lower Links 76	
Lift Links and Turnbuckles 76 AUXILIARY VALVES , Lateral Limiter 77 REMOTE CYLINDERS AND	
Lateral Limiter 77 REMOTE CYLINDERS AND Cam Sway Limiter 79 HYDRAULIC OUTLETS —	
Coupling the Equipment 80 POWER PRIORITY	
	98-105
Flow Control Lever	98
OPERATING THE THREE- Color Code	98
POINT HITCH WITH DRAFT Motor Valve	101
CONTROL 85 Hydraulic Motor Using	
the Motor Valve	101
HITCHING TRAILING Connecting Hoses to the EQUIPMENT Rear Hydraulic Outlets	101
EQUIPMENT TO THE TRACTOR 86-90 Rear Hydraulic Outlets Check Valves	101 104
Safety Chain 86 Operating Double-Acting	104
Swinging Drawbar for Cylinders	104
Tractors with Three-Point Operating Single-Acting	
Hitch 87 Cylinders	104
Swinging Drawbar for Neutral Lock	104
Tractors without Three-Point Float Lockout	104
Hitch 90 Adding Fluid After	
Connecting Cylinders	101
and Hoses Freeing the System of	104
Freeing the System of Trapped Air	105
Simultaneous Raise	105
Valve Detents and Unlatching	105
<u> </u>	
Continuous or Long Term Hydraulic Application	105

POWER TAKE-OFF Operating the Independent	106-108	LUBRICATION Engine Oil	135-138 135
Power Take-Off	107	Gear Lubricant Lubrication Fitting Grease	135 136
DIFFERENTIAL LOCK	108	Engine Oil Filter Hydraulic Fluid Filters	136 136
FRONT WHEELS Adjustable Wide Tread	109-111	Lubricating the Front Wheels Miscellaneous Lubrication	138 138
Front Axle Farmall Hi-Clear, Adjustable	109	LUBRICATION TABLE	139-140
Front Axle Adjusting the Front	109	LUBRICATION GUIDE	141-147
Axle for Tread Width Adjusting the Toe-In	109 111	PREVENTIVE MAINTENANCE GUIDE	148-151
ALL-WHEEL DRIVE	112-115	GOIDE	140-131
Adjusting Tread Width	113	CONTROL CENTER	
Adjusting Toe-In	115	EQUIPMENT	450 450
REAR WHEELS	116-123	PREVENTIVE MAINTENANCE Outside Air Filter	152-156
Adjusting the Tread Widths	116-123	Recirculation Air Filter	152
Reversing the Rear Wheels	116	Air Conditioner Condenser	152
Tractors with Hub Clamp Wheels		Air Conditioner System	133
Assembling the Rear Wheel:	, 110	Pressures	153
with Double Beaded Rims	116	Evaporator Drain Valves	153
Wheels with Double		Adjusting the Compressor	
Beaded Rims	117	Belt Tension-3088 and 3288	
Tractors with Wedge Wheels	118	Tractors with Reciprocating	
Dual Rear Wheels	121	Piston Compressors Adjusting the Compressor Belt	153
TIRES	124-127	Tension-3088 and 3288	
Inflation	124	Tractors with Rotary	
Front Tire Inflation Pressures	125	Vane Compressors	154
Rear Tire Inflation Pressures	126	Adjusting the Compressor Belt	,
	100:100	Tension-3488 Hydro & 3688	
BALLASTING THE TRACTOR	128-133	Tractors with Reciprocating	
Front Ballasting	130	Piston or Rotary Vane	151
Additionals-All-Wheel Drive Liquid Ballast	130 131	Compressors Compressor Pulley and Clutch-	154
Weight Table	131	Reciprocating Piston	
Front-end Weight Hold Down	101	Compressor	155
and Locking Device	132	Compressor Pulley and Clutch-	
Rear Wheel Weights	133	Rotary Vane Compressors-	155
3		Compressor Shaft Seal	155
COLD WEATHER		Compressor Oil Level	156
PRECAUTIONS	133	Heater Coolant Shut-Off	156
Fuel System	133	Electrical	156
Electrical System	133	Floodlights	156
Lubrication	133	Miscellaneous	156
Cooling System	133	SPECIFICATIONS	157-166
STORING THE TRACTOR	134	J. LOII IOATIONO	101-100
Storage Removing From Storage	134 134	FRONT CHEMICAL TANKS	167
		OPTIONAL EQUIPMENT	168

SERIAL NUMBERS



Engine (Right side) 3088 and 3288 Tractors



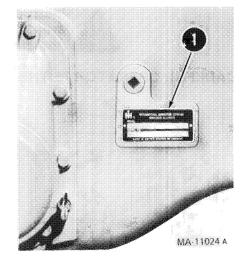
Engine (Left side)
3488-HYDRO and 3688 Tractors

1-Engine serial numbers

3088 and 3288 Tractors with D-358 engine

3488-Hydro Tractor with D-466 engine

3688 and 3688 Hi-Clear Tractors with D-436 engine



Right side of rear frame

1 - Tractor serial number



Right side of control center or ROPS

1 - Control center or ROPS model and serial number





Our support email: ebooklibonline@outlook.com