

**1166, 1169H, 1174, 1177,
1177 Hydro/4,
1188, 1188 Hydro/4
Combines**



**John Deere Werke Zweibrücken
TM-4452**

Printed in Germany (English)

SUMMARY OF MOST IMPORTANT SPECIFICATIONS 1166, 1169H, 1174, 1177, 1177 HYDRO/4, 1188, 1188 HYDRO/4

SPECIFICATIONS

6466 Engine

Valve clearance, intake valve	0.45 mm (0.018 in.)
Valve clearance, exhaust valve	0.70 mm (0.028 in.)
Compression	2450 to 2850 kPa (24.5 to 28.5 bar; 355 to 415 psi)
Max. difference in compression pressure between cylinders	350 kPa (3.5 bar; 50 psi)
Opening pressure of a new injection nozzle	27900 kPa (279 bar; 4050 psi)
Minimum opening pressure of a used nozzle	26200 kPa (262 bar; 3800 psi)
Maximum difference in opening pressure	350 kPa (3.5 bar; 50 psi)
Fast idle	2400 ± 50 rpm
Slow idle	1200 ± 50 rpm

6359 Engine

Valve clearance, intake valve	0.35 mm (0.014 in.)
Valve clearance, exhaust valve	0.45 mm (0.018 in.)
Compression	2100 kPa (21 bar; 300 psi)
Max. difference in compression pressure between cylinders	350 kPa (3.5 bar; 50 psi)
Opening pressure of a new injection nozzle	25100 to 25800 kPa (251 to 258 bar; 3650 to 3750 psi)
Minimum opening pressure of a used nozzle	24100 kPa (241 bar; 3500 psi)
Maximum difference in opening pressure	700 kPa (7 bar; 100 psi)
Fast idle	2675 ± 50 rpm
Slow idle	1200 ± 50 rpm

Air Intake System

Air cleaner restriction indicator light will glow at a vacuum of	500 mm (20 in.) waterhead
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SUMMARY OF MOST IMPORTANT SPECIFICATIONS 1166, 1169H, 1174, 1177, 1177 HYDRO/4, 1188, 1188 HYDRO/4

SPECIFICATIONS (Continued)

Cooling System

Thermostat opening temperature	71 to 82°C (160 to 180°F)
Radiator cap valve opening pressure	100 to 120 kPa (1.0 to 1.2 bar; 14 to 17 psi)

Electrical System

Battery voltage	12 volts
Alternator output current (at 14 volts)	65 amps

Hydraulic System

Hydraulic pump delivery (except 1169H)	
– main circuit	40 liters/min (10.5 gpm)
– steering circuit	12 liters/min (3.2 gpm)
Hydraulic pump delivery (1169H)	
– main circuit	29 liters/min (7.6 gpm)
– secondary circuit	10.5 liters/min (2.8 gpm)
– leveling system	21 liters/min (5.5 gpm)
Pressure relief valve setting	
– in mechanical control valve	13800 to 14500 kPa (138 to 145 bar; 2000 to 2100 psi)
– in electro-magnetic control valve	17200 to 18000 kPa (172 to 180 bar; 2500 to 2610 psi)
– in leveling system	16600 to 17400 kPa (166 to 174 bar; 2400 to 2520 psi)

Steering System

Pressure relief valve setting	13500 kPa (135 bar; 1960 psi)
Shock valve setting	18000 to 19500 kPa (180 to 195 bar; 2610 to 2830 psi)

Clutch

Minimum thickness of clutch disk	7 mm (0.28 in.)
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Wheels

Wheel bolt torques	
– Front wheels (except 1169H)	420 Nm (304 ft-lb)
– Front wheels (1169H)	550 Nm (400 ft-lb)
– Rear wheels	180 Nm (130 ft-lb)

SPECS-Z141IAE-010788

SUMMARY OF MOST IMPORTANT SPECIFICATIONS

1166, 1169H, 1174, 1177, 1177 HYDRO/4, 1188, 1188 HYDRO/4

CAPACITIES

Engine lubrication system	
– 1177 Hydro/4, 1188, 1188 Hydro/4	20 liters (5.3 U.S.gal.)
– 1177	17 liters (4.5 U.S.gal.)
– 1166, 1174, 1169H	13 liters (3.4 U.S.gal.)
Hydrostatic ground speed drive	24 liters (6.3 U.S.gal.)
Transmission with differential	6.6 liters (1.75 U.S.gal.)
Final drive (each)	2.2 liters (0.6 U.S.gal.)
Complete hydraulic system	25 liters (6.6 U.S.gal.)
Clutch and brake operating assembly	1.5 liters (0.4 U.S.gal.)
Chain transmission (cutting platform drive)	0.5 liters (0.13 U.S.gal.)
Hydrostatic reel drive	12 liters (3.17 U.S.gal.)
Cylinder drive reduction gear	1.9 liters (0.5 U.S.gal.)
Engine cooling system	
– 1177 Hydro/4, 1188, 1188 Hydro/4	34 liters (9.0 U.S.gal.)
– 1166, 1169H, 1174, 1177	30 liters (8.0 U.S.gal.)
Refrigerant capacity (air conditioning)	1950 g (68.8 oz.)
Compressor oil charge	320 cm ³ (19.5 cu.in.)
Fuel tank capacity	300 liters (80 U.S.gal.)

SPECS-ZI4IIAE-010788

Combines 1166, 1169H, 1174, 1177, 1177 Hydro/4, 1188, 1188 Hydro/4 TECHNICAL MANUAL TM4452 (Apr-90)

CONTENTS OF SECTIONS

SECTION 10 – GENERAL

Group 05 – Specifications

SECTION 20 – ENGINE REPAIR

Group 01 – Engine pulley
Group 05 – Removing 6466 engine
Group 06 – Removing 6359 engine
Group 10 – Cooling system

SECTION 30 – FUEL SYSTEM

Group 05 – Fuel system
Group 10 – Speed control and engine shut-off components

SECTION 40 – ELECTRICAL EQUIPMENT REPAIR

Group 05 – Connectors
Group 10 – Electrical system components
Group 15 – Low shaft speed monitor system
Group 20 – Harvest performance monitor
Group 25 – Electromagnetic transmission brake
Group 30 – Starting motor (John Deere)
Group 31 – Starting motor (Bosch)
Group 35 – Alternator
Group 40 – Dial-A-Matic
Group 45 – Sidehill leveling system

SECTION 50 – POWER TRAIN

Group 02 – Variable ground speed drive
Group 05 – Posi-Torq ground drive – upper unit
Group 10 – Posi-Torq ground drive – lower unit
Group 15 – Clutch operating assembly
Group 20 – Engine clutch
Group 25 – Hydrostatic drive, oil and filter change (Sauer)
Group 26 – Hydrostatic drive, oil and filter change (Eaton)
Group 30 – Hydrostatic drive, variable pump (Sauer)
Group 31 – Hydrostatic drive, variable pump (Eaton)
Group 35 – Hydrostatic drive, fixed-displacement motor (Sauer)
Group 36 – Hydrostatic drive, fixed-displacement motor (Eaton)
Group 40 – Hydrostatic drive, oil cooler
Group 45 – Transmission with differential
Group 50 – Final drives
Group 55 – Final drives (rice combine)
Group 60 – Final drives (sidehill combine)

SECTION 60 – BRAKES, REAR AXLE AND STEERING

Group 05 – Parking brake
Group 10 – Brake operating assembly
Group 15 – Foot brakes (internal slave cylinder)
Group 16 – Foot brakes (external slave cylinder)
Group 18 – Foot brakes (sidehill combine)
Group 20 – Hydrostatic steering
Group 25 – Rear axle
Group 30 – Rear axle (sidehill combine)

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