Kubota B7100HST

General specifications

General Specifications	
Model	**Kubota B7100 HST**
Tractor type	Compact utility tractor
Production years	1977-1984
Manufacturer	Kubota
Factory	Japan
Dimensions and weight	
Length	2,120 mm (83.8 in.)
Width	1,010 mm (40.1 in.)
Height (steering wheel)	**2WD:** 1,170 mm (46.1 in.) **4WD:** 1,180 mm (46.7 in.)
Wheelbase	**2WD:** 1,380 mm (54.7 in.) **4WD:** 1,390 mm (55.1 in.)
Ground clearance	**2WD:** 250 mm (10.2 in.) **4WD:** 240 mm (9.5 in.)
Front tread	**2WD:** 690 mm (27.4 in.) **4WD:** 850 mm (33.5 in.)
Weight	**2WD:** 522 kg (1,151 lb.) **4WD:** 573 kg (1,265 lb.)
Fluid capacity	
Fuel tank capacity	12.9 liters (3.4 US gal, 2.8 Imp. gal)
Oil capacity	3.9 liters (4.1 US.qts, 3.4 Imp. qts)
Coolant capacity	4.6 liters (4.9 US.qts, 4.0 Imp. qts)
Front axle differential case	1.5 liters (1.6 US.qts, 1.3 Imp. qts)

https://www.tractor-specs.net/kubota/b7100hst.html

Front axle gear case	0.5 liters (0.5 US.qts, 0.45 Imp. qts)
Hydraulic luid capacity:	13.6 liters (3.6 US gal, 3 Imp. gal)
Electrical system	
Ground	Negative
Battery	12V 45Ah
Cabin type	
Cabin type	**Standard:** Open operator station **Optional:** Two-post fixed ROPS (Rollover protection structure)

Engine

Engine	
Engine model	**Kubota D750-AH**
Engine type	4-stroke, vertical, three-cylinders
Displacement	742 cm3, (45.3 cu·in)
Cylinder bore:	68.0 mm (2.68 in)
Piston stroke:	70.0 mm (2.76 in)
Compression ratio:	22.0:1
Max. horsepower	**Gross:** 16.2 PS (11.9 KW; 16.0 HP) at 2,800 rpm **PTO-shaft:** 13.2 PS (9.7 KW; 13.0 HP) at 2,800rpm
Max. torque	43.1 Nm (4.4 kg·m; 31.81 lbf·ft) at 1,800 rpm
Cooling system	Liquid-cooled
Lubricating system	Forced lubrication by pump
Combustion chamber	Spherical type
Fuel injection pump	Bosch K Type Mini Pump
Injection type	Indirect injection
Injection nozzle	Bosch throttle type
Firing order	1-2-3
Fuel used	Diesel fuel No.2-D
Starting system	Electric starter (12V, 0.8 kW)
Starting support device	Glow plug in combustion chamber
Governor	Centrifugal ball mechanical governor
PTO shaft rotation	Counterclockwise (from PTO shaft side)
Cylinder compression pressure	
Cylinder compression:	31.5 kgf/cm^2 (3.09 MPa, 448 psi)
Compression differential limit between cylinders:	10% or less
Valve clearance	
Intake valve clearance:	0.150-0.200 mm (0.006-0.008 in)
Exhaust valve clearance:	0.150-0.200 mm (0.006-0.008 in)
Oil system	
Lubrication system:	Forced lubrication by pump
Oil type:	API CC or better
Oil capacity:	3.9 liters (4.1 US.qts, 3.4 Imp. qts)
Oil filter:	Full flow paper filter (cartridge type)
Oil pressure:	**At idle spped:** 68 kPa (0.7 kgf/cm2, 10 psi) **At rated speed:** 196-441 kPa (2.0-4.5 kgf/cm^2, 29-64 psi)

Fuel system	
Fuel injection pump	Bosch K Type Mini Pump
Injection nozzle	Bosch throttle Type
Injection timing:	25° B.T.D.C.
Fuel injection pressure	13.73-14.71 MPa (140-150 kgf/cm^2, 1991-2133 psi)
Cooling system	
Type:	Pressurized radiator, forced circulation with water pump
Thermostat's valve opening temperature:	80.5-83.5°C (176.9-182.3°F)
Temperature at which thermostat completely opens:	95°C (203°F)
Coolant capacity	4.6 liters (4.9 US.qts, 4.0 Imp. qts)
Cylinder block	
Number of piston rings (compression / oil):	2 / 1
Cylinder inner diameter:	68.000-68.019 mm (2.6772-2.6779 in)
Piston skirt to cylinder clearance	0.076-0.102 mm (0.003-0.004 in)
Piston ring side clearance (Second):	0.085-0.112 mm (0.0033-0.0044 in)
Piston ring side clearance (Oil):	0.020-0.055 mm (0.0008-0.0022 in)
Piston ring end gap (Top):	0.250-0.400 mm (0.0098-0.0157 in)
Piston ring end gap (Second):	0.250-0.400 mm (0.0098-0.0157 in)
Piston ring end gap (Oil):	0.200-0.400 mm (0.0079-0.0157 in)
Piston pin outer diameter	20.002-20.011 mm (0.7875-0.7878 in)
Crankshaft main journal diameter:	43.934-43.950 mm (1.7297-1.7303 in)
Crankshaft main journal bearing clearance:	0.034-0.106 mm (0.0013-0.0042 in)
Crankshaft crankpin diameter:	36.959-36.975 mm (1.4551-1.4557 in)
Crankshaft crankpin bearing clearance:	0.029-0.087 mm (0.0011-0.0034 in)
Crankshaft crankpin side clearance:	0.200-0.400 mm (0.008-0.016 in)
Crankshaft end play:	0.150-0.300 mm (0.006-0.012 in)
Piston pin diameter:	20.002-20.011 mm (0.7875-0.7878 in)
Piston pin clearance:	0.015-0.040 mm (0.0006-0.0015 in)
Cylinder head	
Valves:	6 (2 valves per cylinder)
Valve seat width (INTAKE):	2.120 mm (0.0835 in)
Valve seat width (EXHAUST):	2.120 mm (0.0835 in)
Valve face angle:	45°
Valve seat angle:	2.120 mm (0.0835 in)
Valve stem diameter (INTAKE):	6.960-6.975 mm (0.274-0.2746 in)
Valve stem diameter (EXHAUST):	6.960-6.975 mm (0.274-0.2746 in)

Valve spring free length (INTAKE):	35.100-34.800 mm (1.3819-1.3701 in)
Valve spring free length (EXHAUST):	35.100-34.800 mm (1.3819-1.3701 in)
Camshaft journal diameter:	32.934-32.950 mm (1.2966-1.2972 in)
Camshaft journal bearing clearance:	0.050-0.091 mm (0.0020-0.0036 in)

Transmission and chassis

Transmission and chassis	
Chassis	**B7100HST-E:** 4×2 2WD **B7100HST-D:** 4×4 MFWD 4WD
Steering	Manual type
Differential lock	Mechanical rear
Brakes	Differential mechanical expanding shoe
Transmission type	Hydrostatic
Gears	2 forward and 2 reverse
Ground speed	**Forward:** 5.6-14.5 km/h (3.5-9.0 mph) **Reverse:** 3.9-10.0 km/h (2.4-6.2 mph)

Tires

Tires size	
Front tires	**Standard:** 6.9-9 (2WD), 6-12 (4WD) **Lawn and turf:** 20.5×8.0-10
Rear tires	**Standard:** 8.3-16 **Lawn and turf:** 29×12.0-15
Nornal whel tire pressure	
Front tires	0.10 MPa (1.0 kgf/cm2, 14 psi)
Rear tires	0.12 MPa (1.2 kgf/cm2, 18 psi)

PTO and 3-point linkage

PTO (Power take-off shaft)	
PTO Type:	Rear, transmission
PTO Speed:	**Rear:** 540 / 750 / 1,000 rpm **Rear:** 2,500 rpm **Front:** 2,800 rpm
Hydraulic lift	
3-point linkage:	Category I
Control system:	–
No. of remote valves:	–
Max lifting capacity (at link end):	181 kg (400 lb)

Hydraulic system

Hydraulic system	
Type:	Closed center
Hydraulic luid capacity:	13.6 L (3.6 gal.)
Hydraulic flow:	11.4 lpm (3.0 gpm)

Attachments

Kubota RC54-71: 54″ mid-mount mower deck with 3-blade and hydraulic lift	
Cutting width:	1,372 mm (54.0 in)
Cutting height:	38.0 to 102.0 mm (1.5 to 4.0 in)
Weight:	148.0 kg (327 lbs)
Kubota RC60-71: 60″ mid-mount mower deck with 3-blade and hydraulic lift	
Cutting width:	1,524 mm (60.0 in)
Cutting height:	38.0 to 102.0 mm (1.5 to 4.0 in)
Weight:	168.0 kg (371 lbs)
Kubota B222: 48″ front-mount two-stage snow blower	
Cleaning width:	1,210 mm (48.0 in)
Cleaning height:	580 mm (23.0 in)
Kubota B1630C Loader	
Height (at pin)	1,710 mm (67.7 in)
Lift (full at pin)	231 kg (510 lbs)
Breakout	353 kg (780 lbs)
Dump angle	46°
Rollback angle (ground line)	28°
Dump reach	510 mm (20.25 in)
Ground reach	1,220 mm (48.3 in)
Dump clearance	1,300 mm (51.5 in)
Bucket width	1,210 mm (48 in)

Serial numbers

Serial numbers (Location on clutch housing, left side)	
1980	10001
1981	11035
1982	13305
1983	51426
1984	53433