



KUBOTA UNIVERSITY

Detailed Specifications

BX80 Series

BX1880





BX1880 DETAILED SPECIFICATIONS

ENGINE		
Make and Model	Kubota D722	
Type	Liquid cooled, 4-cycle diesel	
Number of Cylinders	3	
Bore and Stroke	2.64 x 2.68 in. (67 x 68 mm)	
Total Displacement	43.9 cu.in. (719 cm ³)	
Engine hp, gross*1	16.6 HP @ 3200 RPM	
PTO hp	13.7 hp @ 3200 rpm	
Maximum torque	33.1 lbf-ft (95.2 Nm) @ 1400 ~ 1600 rpm	
Low idling revolution	1350 to 1550 rpm	
Battery	12 V, CCA: 560 A, RC: 86 min.	
Fuel	Diesel fuel No. 1 [below 14° F] Diesel fuel No. 2 [above 14° F]	
Governor	Mechanical control	
Injection pump	Direct injection	
Fuel filter system	1-Spin on type fuel filter with water separator with manual drain cock	
Oil filter	Sheet net and replaceable treated paper element, spin on oil filter	
Exhaust	Underhood exhaust system, forward exhaust	
Engine Compartment	Fully enclosed and screened engine compartment with easy access hood	
Fuel Shutoff	Electric activated engine stop mechanism	
Throttle	Hand operated throttle	
COOLING SYSTEM		
Radiator	Water with pressurized radiator, reverse air-flow design	
Water pump	Centrifugal	
CAPACITIES		
Fuel Tank	6.6 U.S. gals.	
Engine crankcase (with filter)	3.2 U.S. qts.	
Engine Coolant	3.06 U.S. qts.	
Recovery Tank	0.4 U.S. qts.	
Transmission case	3.0 U.S. gals.	
PTO		
Rear PTO	SAE 1-3/8, 6 splines	
Revolution	STD 540 rpm	
Mid PTO	USA No. 5 (Kubota 10-tooth) involute spline	
Revolution	STD 2500 rpm	
DRIVE TRAIN		
Front Axle	4WD: Bevel gear front axle, non-adjustable tread spacing	
4WD Drive Shaft	Fully Enclosed, Spline Shaft Power Transfer	
Clutch	Dry type single plate - Main clutch 9.45"	
HST	Hydrostatic transmission	
Speeds	2 Range (Low-High)	
Control Type	Mechanical control	
Foot Control	Single pedal, Toe/Heel or Toe/Toe forward/reverse operaton	
Throttle	Hand operated throttle	
Creep Speed	N/A	
Cruise Control	Mechanical lever, infinite speed control (optional for BX1880)	
Steering	Integral power steering	
Differential Lock	Rear differential lock standard	
Brakes	Mechanical, wet disc type	
HYDRAULIC SYSTEM		
Type	Open center tandem pump gear type	
Hydraulic pump output	5.2 gpm	
Power steering pump output	1.0 gpm	
Total hydraulic flow	6.2 gpm	
Remote control valve coupler (rear: Optional)	System Coupler	2 valves ISO 7241-1 series A
Remote control valve coupler (front: Optional)	System Coupler	2 valves ISO 7241-1 series B

*1 SAE J1995



Detailed Specifications

THREE-POINT HITCH		
Category	SAE Category 1	
Control Method	Quarter-inching valve	
Draft Control	N/A	
Lift Arms	Rigid lower link ends	
Right link adjustment	Turn Buckle	
Lift Capacity @ Lift Points	1,151 lbs.	
24" Behind Lift Points	680 lbs.	
DRAWBAR		
Tongue weight	Maximum tongue weight 550 lb.	
Type	Fixed	
ELECTRICAL		
System	Deluxe dash with analog tachometer, temperature gauge, fuel gauge and LCD hour and error message display	
Battery	12 volt battery 560 CCA	
Alternator	40 Amps.	
Engine Shutoff	Electric key shutoff	
Cold temperature starting aid	Glow plugs (Block heater - optional)	
Lights	Fender mounted 4-way flashers for hazard and turn signal	
	Two headlights	
	Two tail lights	
SAFETY EQUIPMENT		
ROPS	Factory certified two post foldable ROPS with retractable seat belt	
Cab	N/A	
Safety start switches	PTO / HST Range (HST) Neutral Switches	
OPC	Operator presence control system, engine shutoff type	
Parking brakes	Single brake pedal, and depress pedal and latch with the parking brake lock pedal	
SMV sign	Slow moving vehicle sign	
Paint	High visibility paint	
DIMENSIONS		
Height to top of ROPS	81.9 in.	
Overall Length	83.5 in. w/o 3-Pt. 95.5 in. w/3-Pt.	
Overall width (min. tread)	44.1 in.	
Wheelbase	55.1 in.	
Ground Clearance	5.8 in.	
Tread Width	36.6 in.	
Rear	32.2 in.	
Turning Radius	7.5 feet	
Base Weight	1,336 lbs.	
TOW RATING		
Maximum	1,765 lbs.	
Max. drawbar load @ hitch	550 lbs.	
WHEELS AND TIRES		
Front Turf/Bar/Industrial	16x7.50-8	
Rear Turf/Bar/Industrial	24x12.00-12	
TRAVEL SPEEDS		
	FORWARD	REVERSE
HST Model	Standard	Standard
Low	0 mph to 3.4 mph	0 mph to 2.5 mph
High	0 mph to 7.5 mph	0 mph to 5.6 mph
OTHER		
Instruction Identification	Permanently installed English instructions, diagrams, and warning decals, where required by law, to ensure operation and servicing with maximum safety.	
Product Supporter	Parts and Service Manuals Available	
Warranty	General: 24 Months or 1500 Hours	

IMPLEMENTS AND ATTACHMENTS**Front Loader****LA344S**

Standard with 2-Lever Quick Coupler and 48" bucket

Grille Guard

No tools required to attach and detach loader

Loader valve

LA344

Grille Guard

No tools required to attach and detach loader

Loader valve

48" Pin-on Bucket

Loader Options

BX2414 Bolt On Cutting Edge

BX2412 3rd Function Valve

BX2415 2-Lever Quick Coupler Pallet Fork Frame

K9184 32" Pallet Forks

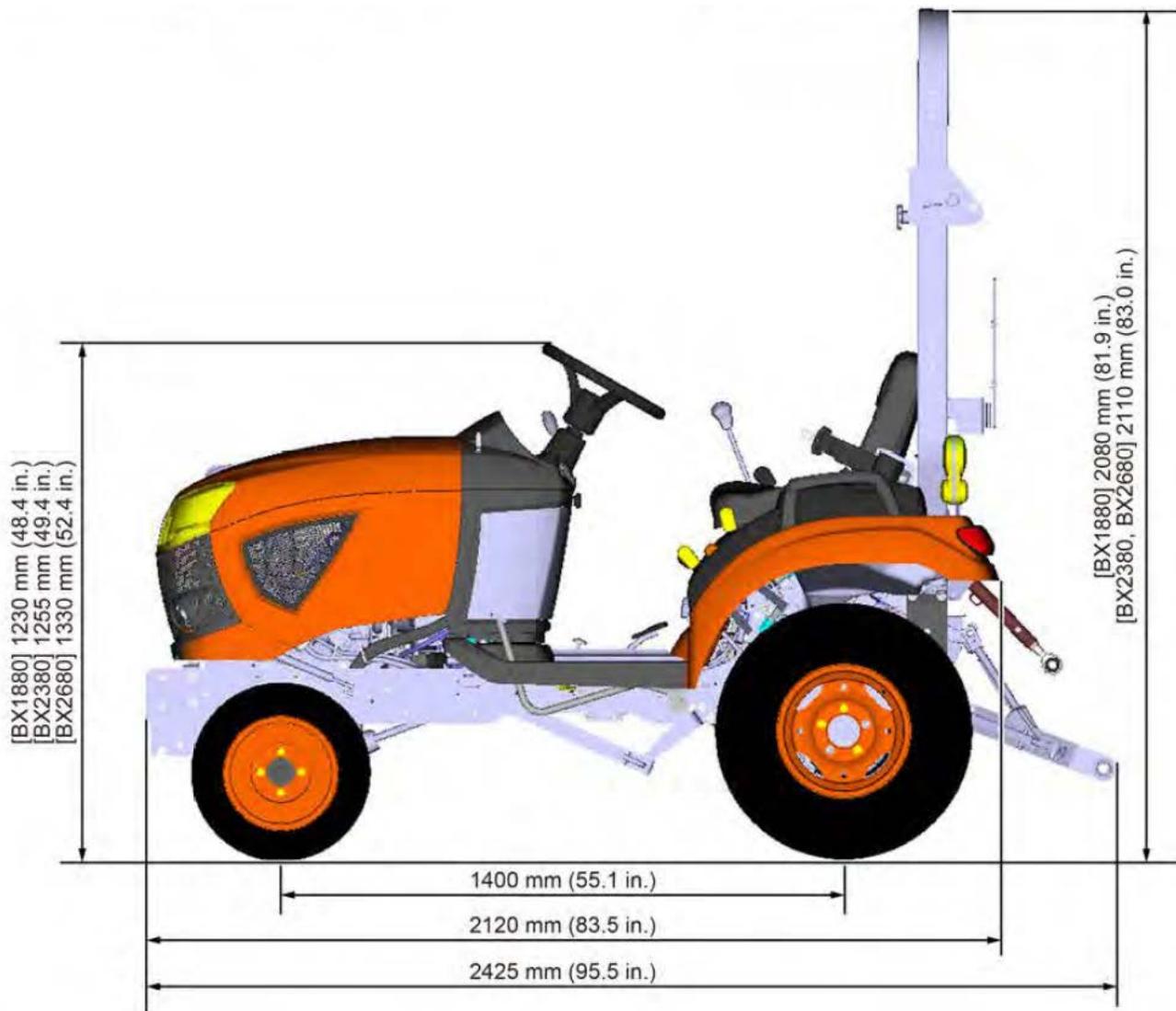
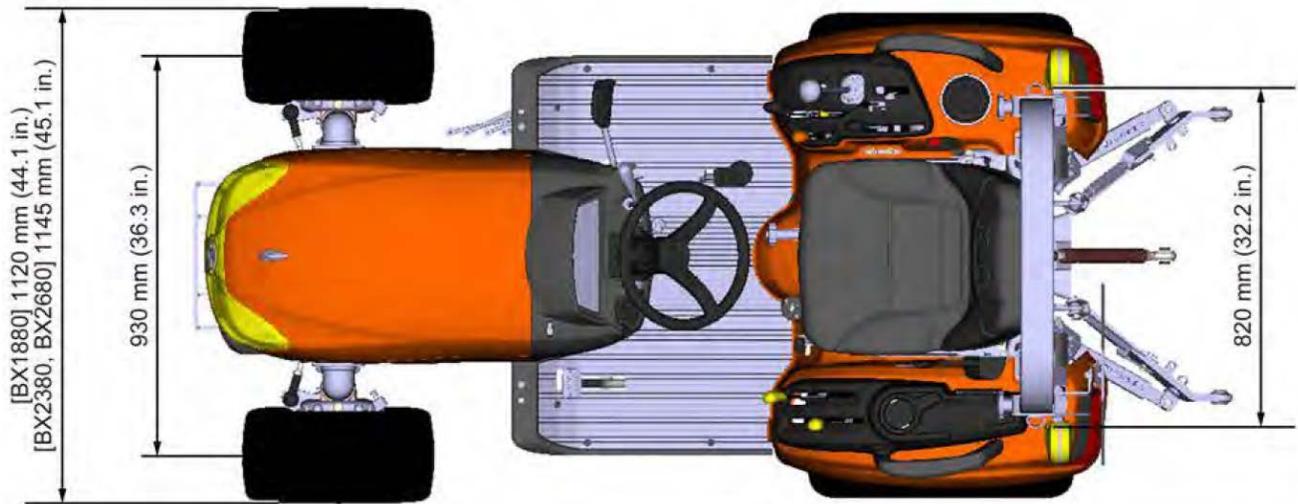
B2672 60" Quick Attach Straight Blade w/Manual Angulation

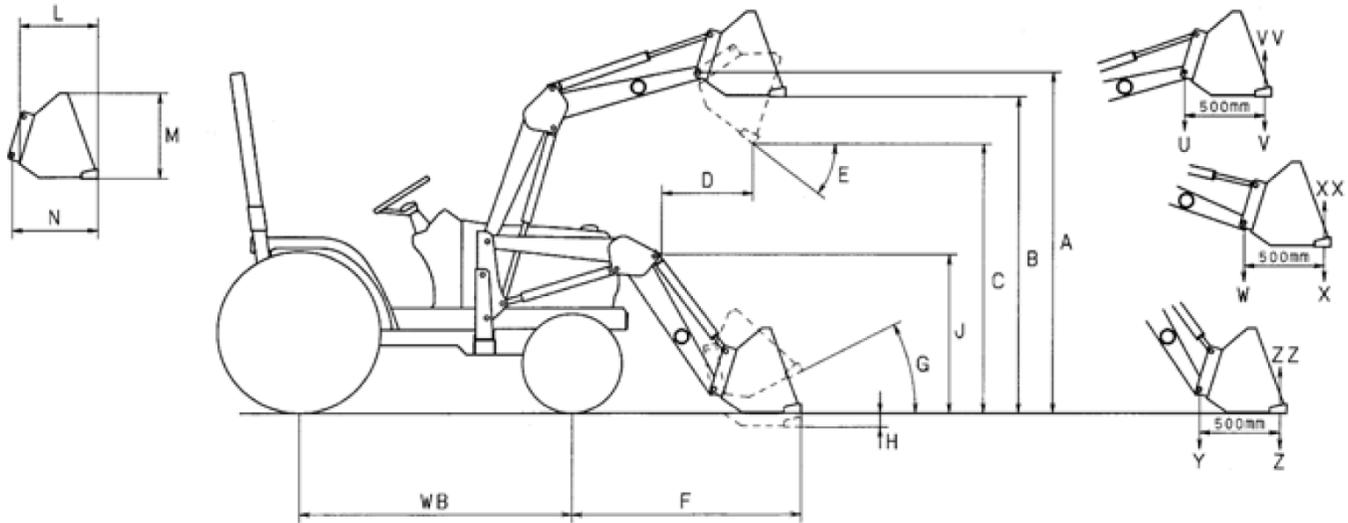
BX2411 Bucket Rod Indicator

Rear Mounted Implements

BL2789 51" 3-Point Rear Snowblower

B8160 Ballast Box





Loader model		LA344		LA344S	
Tractor model		BX1880	BX2380, BX2680, and BX23S	BX1880	BX2380, BX2680, and BX23S
A	Maximum lift height (to bucket pivot pin)	1795 mm (70.7 in.)	1804 mm (71.0 in.)	1795 mm (70.7 in.)	1804 mm (71.0 in.)
B	Maximum lift height under level bucket	1652 mm (65.0 in.)	1662 mm (65.4 in.)	1654 mm (65.1 in.)	1664 mm (65.5 in.)
C	Clearance with bucket dumped	1316 mm (51.8 in.)	1323 mm (52.1 in.)	1281 mm (50.4 in.)	1288 mm (50.7 in.)
D	Reach at max. lift height (dumping reach)	642 mm (25.3 in.)	646 mm (25.4 in.)	673 mm (26.5 in.)	677 mm (26.5 in.)
E	Maximum dump angle	0.79 rad (45°)			
F	Reach with bucket on ground	1398 mm (55.0 in.)	1392 mm (54.8 in.)	1445 mm (56.9 in.)	1438 mm (56.6 in.)
G	Bucket roll-back angle	0.52 rad (30°)	0.51 rad (29°)	0.52 rad (30°)	0.51 rad (29°)
H	Digging depth	134 mm (5.3 in.)	125 mm (4.9 in.)	132 mm (38.6 in.)	122 mm (4.8 in.)
J	Overall height in carrying position	981 mm (38.6 in.)	990 mm (39.0 in.)	981 mm (38.6 in.)	990 mm (39.0 in.)

Loader model		LA344		LA344S	
Tractor model		BX1880	BX2380, BX2680, and BX23S	BX1880	BX2380, BX2680, and BX23S
U	Lift capacity (Bucket pivot pin, max. height)	335 kg (739 lbs)		278 kg (613 lbs)	
V	Lift capacity (500 mm forward, max. height)	231 kg (509 lbs)		192 kg (423 lbs)	
W	Lift capacity (Bucket pivot pin, 1500 mm height)	372 kg (820 lbs)		317 kg (699 lbs)	
X	Lift capacity (500 mm forward, 1500 mm height)	268 kg (591 lbs)		229 kg (505 lbs)	
Y	Breakout force (Bucket pivot pin)	6258 N (1407 lbf)		5719 N (1286 lbf)	
Z	Breakout force (500 mm forward)	4389 N (987 lbf)		4008 N (901 lbf)	
VV	Bucket roll-back force at max. height	4731 N (1064 lbf)		4431 N (996 lbf)	
XX	Bucket roll-back force at 1500 mm height	5557 N (1249 lbf)		5264 N (1183 lbf)	
ZZ	Bucket roll-back force at ground level	5456 N (1227 lbf)		5195 N (1168 lbf)	
Raising time		3.3 sec.			
Lowering time		2.5 sec.			
Bucket dumping time		2.7 sec.			
Bucket rollback time		2.3 sec.			

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