

SHOP MANUAL

KUBOTA

MODELS

**B5100D – B5100E – B6100D – B6100E – B6100HST-D –
B6100HST-E – B7100D – B7100HST-D – B7100HST-E**

On Models B5100D, B5100E, B6100D, B6100E and B7100D, tractor serial number is located on left side of clutch housing case as shown below.

On Models B6100HST-D, B6100HST-E, B7100HST-D and B7100HST-E, tractor serial number is located on left side of clutch housing case as shown below.

On all models, engine serial number is located on right side of engine crankcase as shown below.



MODELS	B5100E B6100E	B5100D B6100D B7100D	B6100HST-E B7100HST-E	B6100HST-D	B7100HST-D
BRAKES					
Adjust	80	80	80	80	80
Overhaul	82	82	82	82	82
Remove and Reinstall	81	81	81	81	81
CLUTCH					
Adjust	51	51	51	51	51
Overhaul	54	54	54	54	54
Release Bearing	55	55	55	55	55
Remove and Reinstall	53	53	53	53	53
COOLING SYSTEM	47	47	47	47	47
DIESEL FUEL SYSTEM					
Air Filter System	46	46	46	46	46
Bleed Fuel System	36	36	36	36	36
Fuel Filters and Lines	35	35	35	35	35
Fuel Pump	36A	36A	36A	36A	36A
Glow Plugs	45	45	45	45	45
Injection Pump	37	37	37	37	37
Injector	39	39	39	39	39

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MODELS	B5100E B6100E	B5100D B6100D B7100D	B6100HST-E B7100HST-E	B6100HST-D	B7100HST-D
DIFFERENTIAL					
Lock	77	77	77	77	77
Overhaul	76	76	76	76	76
Remove and Reinstall	75	75	75	75	75
ELECTRICAL SYSTEM					
Alternator	48	48	48	48	48
Starter	49	49	49	49	49
ENGINE					
Assembly, R&R	18	18	18	18	18
Camshaft	29	29	29	29	29
Compression Pressure	19	19	19	19	19
Compression Release	21	21	21	21	21
Connecting Rod and Bearings	28	28	28	28	28
Crankshaft and Bearings	30	30	30	30	30
Cylinder Head	22	22	22	22	22
Cylinder Liner	31	31	31	31	31
Flywheel	33	33	33	33	33
Governor	34	34	34	34	34
Oil Pump	32	32	32	32	32
Piston Pin	27	27	27	27	27
Piston and Rings	26	26	26	26	26
Piston and Rod Units, R&R	25	25	25	25	25
Timing Gears and Cover	24	24	24	24	24
Valve System	23	23	23	23	23
Valve Tappet Gap	20	20	20	20	20
FINAL DRIVE					
Overhaul	79	79	79	79	79
Remove and Reinstall	78	78	78	78	78
FRONT SYSTEM & STEERING					
Axle, R&R	2	3	2	3	4
Kingpins and Bushings .....	.....	6	.....	6	7
Pivot Pin and Bushings	8	8	8	8	8
Steering Spindles	5	.....	5	.....	.....
Steering Gear	9	9	9	9	9
Tie Rods and Toe-In	1	1	1	1	1
FRONT-WHEEL DRIVE SYSTEM					
Differential and Bevel Gear Assembly .....	.....	12	.....	12	14
Outer Drive Assembly .....	.....	10	.....	10	.....
Outer Cover, Outer Drive Housing, Gear Case and Drive Components .....	.....	.....	.....	.....	13
Outer Drive Housing, Axle Shafts and Axle Case .....	.....	11	.....	11	.....
GEAR TRANSMISSION					
Overhaul	74	74	70	70	70
Remove and Reinstall	73	73	69	69	69
HYDRAULIC SYSTEM					
Control Valve, Overhaul	98	98	98	98	98
Control Valve, R&R	97	97	97	97	97
Fluid and Filters	90	90	90	90	90
Lift Cover, Overhaul	100	100	100	100	100
Lift Cover, R&R	99	99	99	99	99
Lines	94	94	94	94	94
Pump, Overhaul	96	96	96	96	96
Pump, R&R	95	95	95	95	95
Tests and Adjustments	91	91	91	91	91
HYDROSTATIC TRANSMISSION					
Linkage, Adjust	63	63	63
Linkage, Overhaul	64	64	64

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MODELS	B5100E B6100E	B5100D B6100D B7100D	B6100HST-E B7100HST-E	B6100HST-D	B7100HST-D
HYDROSTATIC TRANSMISSION CONT.					
Overhaul.....	....	....	67	67	67
Pressure Test.....	....	....	57	57	57
Remove and Reinstall.....	....	....	66	66	66
POWER TAKE-OFF					
Gear Transmission					
Components.....	89	89	85	85	85
Mid-Pto.....	....	....	86	86	86
Rear Pto.....	88	88	84	84	84
SEPARATION					
Engine/Clutch Housing.....	52	52	52	52	52
Clutch Housing/Transmission Case.....	72	72	65	65	65

DUAL DIMENSIONS

This service manual provides specifications in both the U.S. Customary and Metric (SI) systems of measurement. The first specification is given in the measuring system perceived by us to be the preferred system when servicing a particular component, while the second specification (given in parenthesis) is the converted measurement. For instance, a specification of "0.28 mm (0.011 inch)" would indicate that we feel the preferred measurement, in this instance, is the metric system of measurement and the U.S. system equivalent of 0.28 mm is 0.011 inch.

CONDENSED SERVICE DATA

MODELS	B5100D B5100E	B6100D B6100E	B6100HST-D B6100HST-E	B7100D	B7100HST-D B7100HST-E
GENERAL					
Engine Make.....	Own	Own	Own	Own	Own
Engine Model.....	Z500-1A	D650-A	D650-AH	D750-A	D750-AH
Number of Cylinders.....	2	3	3	3	3
Bore (mm).....	68	64	64	68	68
(Inches).....	2-5/8	2-1/2	2-1/2	2-5/8	2-5/8
Stroke (mm).....	70	70	70	70	70
(Inches).....	2-3/4	2-3/4	2-3/4	2-3/4	2-3/4
Displacement (cc).....	508	675	675	762	762
(Cubic Inches).....	31	41.2	41.2	46.5	46.5
Compression Ratio.....	22:1	22:1	22:1	22:1	22:1
TUNE-UP					
Valve Tappet Gap (Cold) (mm).....	0.15-0.20	0.15-0.20	0.15-0.20	0.15-0.20	0.15-0.20
(Inch).....	0.006-0.008	0.006-0.008	0.006-0.008	0.006-0.008	0.006-0.008
Injection Timing (BTDC).....	25°	25°	25°	25°	25°
Timing Mark Location.....	Flywheel	Flywheel	Flywheel	Flywheel	Flywheel
Injection Pressure (MPa).....	13.7	13.7	13.7	13.7	13.7
(PSI).....	1988	1988	1988	1988	1988
Battery -					
Volts.....	12	12	12	12	12
Capacity Amp/hr.....	35	45	45	45	45
Ground Polarity.....	Negative	Negative	Negative	Negative	Negative
Slow Idle Speed (RPM).....	750-800	750-800	750-800	750-800	750-800
High Idle Speed (RPM).....	3000	2800	2800	2800	2800
Rated Speed (RPM).....	3000	2800	2800	2800	2800
Horsepower at Pto Shaft.....	9.5	11	11	13	13



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