

SPECIFICATIONS, CAPACITIES, DIMENSIONS AND WHEELS

M5-111 Utility Tractors

	ROPS MODELS	CAB MODELS
	M5-111HF = Hyd. Shuttle 8 spd. Foldable ROPS	M5-111HFC = Hyd. Shuttle 8 spd. Cab
	M5-111HD = Hyd. Shuttle 8 spd. Foldable ROPS	M5-111HDC = Hyd. Shuttle 8 spd. Cab
	M5-111HD12 = Hyd. Shuttle 12 spd. Foldable ROPS	M5-111HDC12 = Hyd. Shuttle 12 spd. Cab
		M5-111HDC24 = Hyd. Shuttle 24 spd. Cab
ENGINE		
Make and Model	Kubota-V3800-CR-TE4	
Type	Liquid Cooled, Meets Interim Tier IV EPA Emission Regulations 4 Cylinder Multi-Valve (4-Valve) Diesel, Center Direct Injection, Turbo-Charged Intercooled Fuel Injection system: CRS (Common Rail System) Electronic fuel injection K-EMS (Kubota Electronic Management System)	
Engine hp, gross	105.6 hp @ 2400 rpm	105.6 hp @ 2600 rpm
Engine hp, net	100.0 hp @ 2400 rpm	100.0 hp @ 2600 rpm
Engine hp, PTO	89.0 hp @ 2400 rpm	89.0 hp @ 2600 rpm
Maximum torque	263 ft. lbs. @ 1400-1600 rpm	
Bore and Stroke	3.94 in. x 4.72 in.	
Displacement	230 cu. Inch	
Fuel per hour	3.85 gal @ 75% load, 5.14 gal at maximum load (Calculated, actual may vary from M9540)	
Cylinder Block	Parent Bore (linerless)	
Fan	Fixed fan drive	
Air Cleaner Element	Dry Paper/Dual Element, 8 inch diameter, Pre-Cleaner standard	
Cold Weather Start Aid	Automatic preheat with PTC (Positive Temperature Coefficient) intake heater	
Lubrication	Forced Lubrication	
Governor	Electronic type governor	
Injection pump	Electronic CRS (Common Rail System)	
Fuel filter system	1-Spin on type fuel filter with water separator with manual drain cock	
Oil filter	Spin on oil filter	
Exhaust	DPF and SCR Under Hood Pipe up or Down Exhaust Pipe	DPF, SCR Under Hood Corner Post Vertical
Throttle	Hand and foot operated throttle	
COOLING SYSTEM		
Radiator	Heavy duty pressurized radiator with recovery tank	
Water pump	Positive water pump	
CAPACITIES		
Fuel Tank/ DEF Tank	27.7/3.2 gal.	
Cooling System	11 qt.	
Engine Oil	11.3 qt.	
Transmission	63.4 qt. (17.2 gal.)	
Front Axle	6.3 (Differential) plus 3.7 qt. (per each Bevel Gear Case)	
Washer fluid (windows)	1.4 qt.	
AXLE LOAD RATINGS (Maximum)		
Front Axle 2WD lbs	4850 @ 56.7" tread spacing (7050 w/loader @ 56.7" tread spacing)	
Front Axle 4WD lbs	5,730 @ 62.2" tread spacing (7720 w/loader @ 62.2" tread spacing)	
Rear Axle lbs	8,160 @ 60.2" tread spacing	

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ELECTRICAL

System	12 volt electrical system
Battery	12 volt battery 900 CCA
Alternator	ROPS Model 60 Amp Cab Model 80 Amp High Capacity 100 Amp Alternator / Optional

INSTRUMENTATION

Gauges	Fuel, Engine Temp., Intelipanel
Dash Panel	Indicator Lights for: 4WD engagement, Flasher / Turn Signals – Preheat Glow plugs, PTO engagement, and low fuel warning at 2.6 gal. Above fuel gauge are Indicator lights for Alternator charging, Engine oil pressure.
	LCD Display: Speedometer mph or km/h, PTO RPM Speed,
	Hourmeter displays up to 9999.99 hours, including 1/10 of an hour.
	PTO Indicator light, PTO engaged the light is on Four wheel drive Indicator Light, four wheel drive engaged the light is on

SAFETY EQUIPMENT AND LIGHTS

ROPS Models	Certified two post foldable ROPS with retractable seat belt
Cab Models	Certified ROPS Cab with retractable seat belt
Head Lights	2 Halogen Head Lights with High/Low Beam and 2 Halogen side lights
Rear Light (ROPS Model)	1 Rear Work Light (Optional)
Work Lights (Cab Model)	2 Halogen Front Standard, 2 Halogen rear work lights
Safety Flashers	2 Front and 2 Rear Safety flashers with Turn Signals
Switches	Safety start switches
Parking	Park Lock in Transmission
SMV	Slow moving vehicle sign, standard
Cab	Horn

DIMENSIONS

	2 WHEEL DRIVE	4 WHEEL DRIVE
Height Top of ROPS	99 in	
Top of Cab	100.2 in	
Top of Exhaust Pipe	90.9 in	
Overall Length	156.5 in	155 in.
Overall Width, minimum	78.2 in	78.2 in
Tread Width/front	56.7 in - 80.3 in	59.8 in – 63.8 in
Tread Width/rear	59.8 in - 75.6 in	59.8 in - 75.6 in
Wheelbase	90.0 in	88.6 in.
Crop Clearance	20.5 in	18.7 in.
Ground clearance	16.7 in (Drawbar Bracket)	
Turning Radius with brake	10.8 ft	10.5 ft
without brake	12.1 ft	13.8 ft
Weight ROPS Model setup*	5732 lbs	6152 lbs
ROPS Model Field Ready*	8960 lbs	9610 lbs
Cab Model Setup*	6482 lbs	6900 lbs
Cab Model Field Ready*	9820 lbs	10470 lbs

Field Ready includes 4, 164 lb. rear wheel weights, 10 front weights @ 1000 lbs, rear calcium @ 3 1/2 lbs = 852 lbs per tire Front bumper weight 230 lbs, standard on 2WD, 4WD includes the additional 230 lbs.

TOW RATING

	2 WHEEL DRIVE	4 WHEEL DRIVE
Maximum (tare weight)	13200 lbs.	15400 lbs

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TIRE OPTIONS:

M5-111HF/HFC 2WD		M5-111HD/HD12/HDC/HDC12 4WD
F-7.5-18 F2 TITAN TRU TRAC TT (STD) R-18.4-30 R1W GDYR OPTRAC (STD)	F-9.5L-15 F2 GALAXY MULTIRIB R-18.4-26 R3 F-STONE ANS	F-7.5-18 F2 TITAN TRU TRAC TT (STD) R-18.4-30 R1W GDYR OPTRAC (STD)
F-10.00-16 F2 F-STONE CHAMP GUIDE GRIP R-18.4-30 R1W GDYR OPTRAC	F-27x9.50-15 HF-1 GDYR TERRA RIB R-19.5L-24 R3 F-STONE TURF AND FIELD	F-10.00-16 F2 F-STONE CHAMP GUIDE GRIP R-18.4-30 R1W GDYR OPTRAC
F- 9.5L-15 F2 GALAXY MULTIRIB R-18.4-26 R1 ALLIANCE 324	F- 9.5L-15 F2 GALAXY MULTIRIB R- 19.5L-24 R4 TITAN INDUSTRIAL TRAC LUG	F-9.5L-15 F2 GALAXY MULTIRIB R-18.4-26 R1 ALLIANCE 324
F- 7.5-18 F2 TITAN TRU TRAC TT R- 460/85R30 R1W GDYR OPTRAC		F-7.5-18 F2 TITAN TRU TRAC TT R-460/85R30 R1W GDYR OPTRAC
F-10.00-16 F2 F-STONE CHAMP GUIDE GRIP R- 460/85R30 R1W GDYR OPTRAC		F-10.00-16 F2 F-STONE CHAMP GUIDE GRIP R-460/85R30 R1W GDYR OPTRAC
F-7.5-18 F2 TITAN TRU TRAC TT R-460/85R30 R1W GDYR OPTRAC CAST		F- 7.5-18 F2 TITAN TRU TRAC TT R-460/85R30 R1W GDYR OPTRAC CAST
F-10.00-16 F2 F-STONE CHAMP GUIDE GRIP R- 460/85R30 R1W GDYR OPTRAC CAST		F-10.00-16 F2 F-STONE CHAMP GUIDE GRIP R-460/85R30 R1W GDYR OPTRAC CAST
F- 10.00-16 F2 F-STONE CHAMP GUIDE GRIP R-420/85R34 R1W ALLIANCE 385		F-10.00-16 F2 F-STONE CHAMP GUIDE GRIP R-420/85R34 R1W ALLIANCE 385
F-10.00-16 F2 F-STONE CHAMP GUIDE GRIP R-420/85R34 R1W ALLIANCE 385 CAST		F-10.00-16 F2 F-STONE CHAMP GUIDE GRIP R-420/85R34 R1W ALLIANCE 385 CAST
	M5-091HD/HD12/HDC/HDC12 4WD	F- 9.5L-15 F2 GALAXY MULTIRIB R-18.4-26 R3 F-STONE ANS
	F-9.5L-15 F2 GALAXY MULTIRIB R-19.5L-24 R4 TITAN INDUSTRIAL TRAC LUG	F-27x9.50-15 HF-1 GDYR TERRA RIB R-19.5L-24 R3 F-STONE TURF AND FIELD

TRAVEL SPEED Chart for 8-Speed Transmission

(at Rated Engine RPM with Std. 16.9-30 2wd, 18.4-30 4wd tires)

Range	Main gear	Travel speed 2wd		Travel speed 4wd		Mph differential with optional tires, standard speeds by percentages.
		Forward	Reverse	Forward	Reverse	
Creep (if equipped)	1	0.21	0.21	0.22	0.22	Ag R1 16.9-24 84%
	2	0.32	0.32	0.34	0.33	Ag R1 16.9-30 97%
	3	0.46	0.46	0.49	0.48	Ag R1 16.9-34 100%
	4	0.66	0.66	0.69	0.69	Ind R4 19.5L-24 85%
Low	1	1.50	1.50	1.50	1.50	R3 Turf,2WD 18.4-26 90%
	2	2.20	2.20	2.30	2.50	Note: 18.4R30 Radial option has same speed
	3	3.20	3.20	3.40	3.30	
	4	4.60	4.60	5.90	5.90	
1	5.70	5.60	6.40	9.00		
High	2	8.60	8.50	9.70	8.90	
	3	12.40	12.30	13.00	12.90	
	4	17.70	17.60	18.60	18.40	

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M5-111 Utility Tractors (Cont.)

TRAVEL SPEED Chart for 12-Speed Transmission(at Rated Engine RPM with Std. 18.4-30 tires)								
Range	Main gear	Travel speed ROPS		Travel speed Cab		Mph differential with optional tires, standard speeds by percentages.		
		Forward	Reverse	Forward	Reverse			
Creep (if equipped)	1	0.23	0.22	0.24	0.24	Ag R1	16.9-24	84%
	2	0.31	0.31	0.33	0.33	Ag R1	16.9-30	97%
	3	0.40	0.40	0.43	0.43	Ag R1	16.9-34	100%
	4	0.51	0.51	0.56	0.55	Ind R4	19.5L-24	85%
	5	0.63	0.63	0.69	0.68	R3 Turf,2WD	18.4-26	90%
	6	0.91	0.90	0.98	0.98	Note: 18.4R30 Radial option has same speed		
Low	1	1.50	1.50	1.70	1.70			
	2	2.10	2.10	2.30	2.30			
	3	2.70	2.70	2.90	2.90			
	4	3.50	3.50	3.80	3.80			
	5	4.30	4.30	4.70	4.60			
	6	6.20	6.10	6.70	6.60			
High	1	6.80	6.70	7.30	7.30			
	2	9.30	9.20	10.00	10.00			
	3	11.90	11.90	12.90	12.90			
	4	15.40	15.30	16.70	16.60			
	5	19.00	18.90	20.60	20.50			
	6	23.6*	23.5*	23.6*	23.5*			
TRAVEL SPEED Chart for 24-Speed Transmission(at Rated Engine RPM with Std. 18.4-30 tires)								
Range	Main gear	Dual Speed Low		Dual Speed High		Mph differential with optional tires, standard speeds by percentages.		
		Forward	Reverse	Forward	Reverse			
Creep (if equipped)	1	0.22	0.21	0.24	0.24	Ag R1	16.9-24	84%
	2	0.28	0.28	0.33	0.33	Ag R1	16.9-30	97%
	3	0.36	0.36	0.43	0.43	Ag R1	16.9-34	100%
	4	0.46	0.47	0.55	0.56	Ind R4	19.5L-24	85%
	5	0.57	0.58	0.68	0.69	R3 Turf,2WD	18.4-26	90%
	6	0.82	0.83	0.97	0.99	Note: 18.4R30 Radial option has same speed		
Low	1	1.40	1.40	1.60	1.70			
	2	1.90	1.90	2.20	2.30			
	3	2.40	2.50	2.90	2.90			
	4	3.20	3.20	3.70	3.80			
	5	3.90	3.90	4.60	4.70			
	6	5.60	5.60	6.60	6.70			
High	1	6.10	6.20	7.30	7.40			
	2	8.40	8.50	9.90	10.10			
	3	10.80	10.90	12.80	13.00			
	4	13.90	14.10	16.60	16.80			
	5	17.20	17.40	20.40	20.70			
	6	19.7*	19.9*	23.4*	23.7*			

* Engine Governed @ 1960

KUBOTA M5-111 2WD TRACTOR AVAILABLE WHEEL SPACING

Rear AMR8530B 16.9-30 R1	Wheel offset	Center to Center	Overall Width
Position 4	0.705	59.19	77.89
Position 5	-1.08	62.76	81.46
Position 6	-3.295	67.19	85.89
Position 7	-5.08	70.76	89.46
Position 8	-7.295	75.19	93.89

Rear AMR8522A 16.9-30 R1 Cast	Wheel offset	Center to Center	Overall Width
Position 4	0.546	59.508	78.308
Position 5	-0.77	62.14	80.94
Position 6	-3.454	67.508	86.308
Position 7	-4.77	70.14	88.94
Position 8	-7.454	75.508	94.308

Rear AMR8531A 18.4-30 R1	Wheel offset	Center to Center	Overall Width
Position 4	0.705	59.19	77.89
Position 5	-1.08	62.76	81.46
Position 6	-3.295	67.19	85.89
Position 7	-5.08	70.76	89.46
Position 8	-7.295	75.19	93.89

Rear AMR8514B 18.4R30 R1	Wheel offset	Center to Center	Overall Width
Position 4	-0.247	61.094	79.794
Position 5	-1.253	63.106	81.806
Position 6	-3.253	66.34	85.806
Position 7	-6.127	72.854	91.554
Position 8	-8.127	76.854	95.554

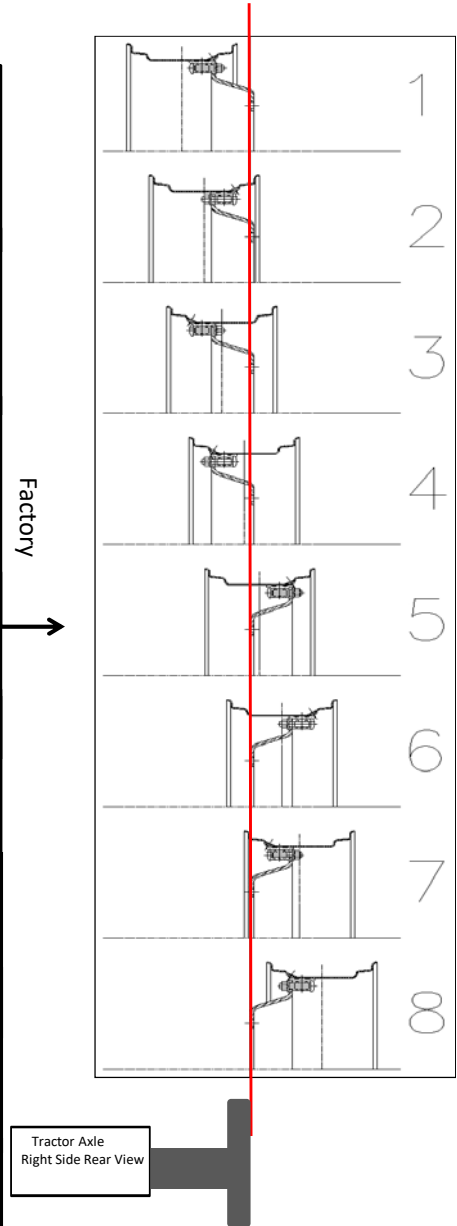
Rear AMR8537A 18.4R30 R1 Cast	Wheel offset	Center to Center	Overall Width
Position 5	-1.23	63.06	80.76
Position 6	-5.145	70.89	88.59
Position 7	-3.23	67.06	84.76
Position 8	-7.145	74.89	92.59

Rear AMR9258A 16.9-34 R1	Wheel offset	Center to Center	Overall Width
Position 4	0.215	60.17	77.87
Position 5	-1.715	64.03	81.73
Position 6	-3.715	68.03	85.73
Position 7	-5.665	71.93	89.63
Position 8	-7.665	75.93	93.63

Rear AMR8521 16.9-34 R1	Wheel offset	Center to Center	Overall Width
Position 4	0.436	59.728	78.728
Position 5	-0.66	61.92	80.92
Position 6	-2.724	66.048	85.048
Position 7	-4.66	69.92	88.92
Position 8	-6.724	74.048	93.048

Rear AMR8546 18.4-26 R1	Wheel offset	Center to Center	Overall Width
Position 4	0.3	60	79
Position 5	-1.136	62.872	81.872
Position 6	-3.2	67	86
Position 7	-5.416	71.432	90.432
Position 8	-7.48	75.56	94.56

Rear AMR8532 18.4-26 R3	Wheel offset	Center to Center	Overall Width
Position 5	-1.66	63.92	83.02
Position 6	-3.875	68.35	87.45
Position 7	-4.38	69.36	88.46
Position 8	-6.595	73.79	92.89



NOTE! Postions shown are only positions available.

Specifications subject to change without notice.

KUBOTA M5-111 4WD TRACTOR AVAILABLE WHEEL SPACING

Rear AMR8530B 16.9-30 R1	Wheel offset	Center to Center	Overall Width
Position 4	0.705	59.19	77.89
Position 5	-1.08	62.76	81.46
Position 6	-3.295	67.19	85.89
Position 7	-5.08	70.76	89.46
Position 8	-7.295	75.19	93.89

Rear AMR8935D 16.9-30 R1 Cast	Wheel offset	Center to Center	Overall Width
Position 4	-0.35	59.806	76.71
Position 5	1.25	63.006	79.91
Position 6	3.24	66.986	83.89
Position 7	6.13	72.754	89.65
Position 8	6.63	73.754	90.65

Rear AMR8933 18.4-30 R1	Wheel offset	Center to Center	Overall Width
Position 4	0.705	59.19	77.09
Position 5	-1.08	62.76	80.66
Position 6	-3.295	67.19	85.09
Position 7	-5.08	70.76	88.66
Position 8	-7.295	75.19	93.09

Rear AMR8935D 18.4R30 R1	Wheel offset	Center to Center	Overall Width
Position 4	-0.247	61.094	78.294
Position 5	-1.253	63.106	80.306
Position 6	-3.253	67.106	84.306
Position 7	-6.127	72.854	90.054
Position 8	-8.127	76.854	94.054

Rear AMR8531A 18.4R30 R1 Cast	Wheel offset	Center to Center	Overall Width
Position 4	0.705	59.19	77.89
Position 5	-1.08	62.76	81.46
Position 6	-3.295	67.19	85.89
Position 7	-5.08	70.76	89.46
Position 8	-7.295	75.19	93.89

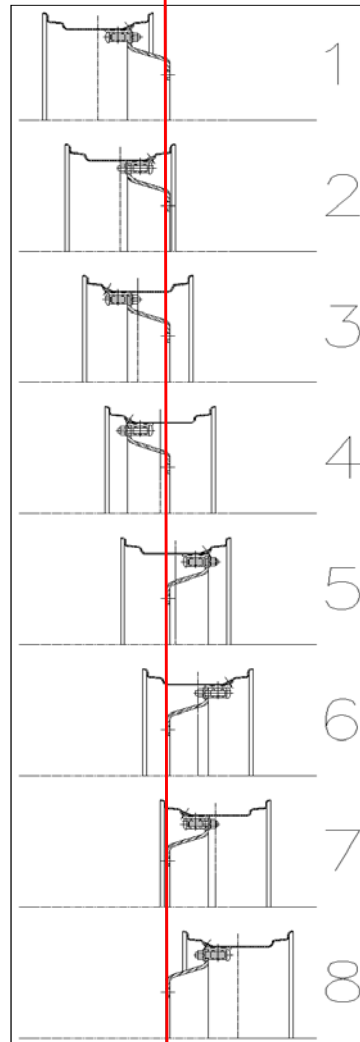
Rear AMR8514B 16.9-34 R1	Wheel offset	Center to Center	Overall Width
Position 4	-0.247	61.094	79.794
Position 5	-1.253	63.106	81.806
Position 6	-3.253	67.106	85.806
Position 7	-6.127	72.854	91.554
Position 8	-8.127	76.854	95.554

Rear AMR9258 16.9-34 R1	Wheel offset	Center to Center	Overall Width
Position 5	-1.23	63.06	80.76
Position 6	-5.145	70.89	88.59
Position 7	-3.23	67.06	84.76
Position 8	-7.145	74.89	92.59

Rear AMR9258A 18.4-26 R1	Wheel offset	Center to Center	Overall Width
Position 4	0.215	60.17	77.87
Position 5	-1.715	64.03	81.73
Position 6	-3.715	68.03	85.73
Position 7	-5.665	71.93	89.63
Position 8	-7.665	75.93	93.63

Rear AMR8521 18.4-26 R3	Wheel offset	Center to Center	Overall Width
Position 4	-0.25	60	78.4
Position 5	1.77	64.03	82.43
Position 6	3.83	68.15	86.55
Position 7	5.62	71.73	90.13
Position 8	6.12	72.73	91.13

Rear AMR8532 16.9-24 R1	Wheel offset	Center to Center	Overall Width
Position 5	-1.66	61.76	78.76
Position 6	-3.875	65.76	81.76
Position 7	-4.38	67.76	83.76
Position 8	-6.595	71.76	87.76



Tractor Axle
Right Side Rear View

Factory

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December 1, 2015

Utility/Agricultural Tractors

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