

SPECIFICATIONS, CAPACITIES, DIMENSIONS AND WHEELS

M5-091 Utility Tractors

	ROPS MODELS	CAB MODELS
	M5-091HF = Hyd. Shuttle 8 spd. Fold. ROPS	M5-091HFC = Hyd. Shuttle 8 spd. Cab
	M5-091HD = Hyd. Shuttle 8 spd. Fold. ROPS	M5-091HDC = Hyd. Shuttle 8 spd. Cab
	M5-091HD12 = Hyd. Shuttle 12 spd. Fold. ROPS	M5-091HDC12 = Hyd. Shuttle 12 spd. Cab
ENGINE		
Make and Model	Kubota-V3800-CR-TIEF4	
Type	Liquid Cooled, Meets Tier IV Final EPA Emission Regulations 4 Cylinder Multi-Valve (4-Valves) Diesel, Center Direct Injection, and Turbo-Charged Fuel Injection system: CRS (Common Rail System) Electronic fuel injection Exhaust after treatment (EGR, DPF, and SCR)	
Engine hp, gross	92.5 hp @ 2400 rpm	92.5 hp @ 2600 rpm
Engine hp, net	85.5 hp @ 2400 rpm	85.5 hp @ 2600 rpm
Engine hp, PTO	76.0 hp @ 2400 rpm	76.0 hp @ 2600 rpm
Maximum torque	239.0 ft. lbs. @ 1400-1600 rpm	
Bore and Stroke	3.94 in. x 4.72 in.	
Displacement	230 cu. Inch	
Fuel per hour	3.52 gal @ 75% load, 4.69 gal at maximum load (Calculated, actual may vary from M8540)	
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 vertical pipe 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	27.7 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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M5-091 Utility Tractors (Cont.)

DRIVE TRAIN	
Main Clutch	Wet Clutch Multi-plate
Clutch material	Metallic
Size	6 5.3" diameter clutch discs 3 for Forward / 3 for Reverse
Shuttle	Electric over hydraulic shuttle
Transmission	8 Speed Models: 4 Speed w/Hi-Low Range - Fully Synchronized main transmission
	12 Speed Models = 6 Speed w/Hi-Low Range - Fully Synchronized main transmission, includes an overdrive feature to slow engine speed to 2080 in Hi 6th gear to increase fuel economy
Speeds	8 Speed Models: 8 Forward X 8 Reverse Standard 12 Speed Models = 12 Forward X 12 Reverse Cassette type creep speed adds four or six more speeds (Optional/Available on all models)
Differential Lock	Standard on rear axles
Final drive type	Inboard Planetary
Brakes	Hydraulically operated, Multi-Plate Wet Discs (Continuous oil flow from hydraulic system)
PTO System	Electro - Hydraulic Independent PTO, self modulating Sixty degree shaft rotation is obtainable for easy hookup, with the engine off 540 rpm @ 2205 Eng. rpm, PTO shaft is 1 3/8" SAE 6 spline Optional 540/1000 rpm PTO's have 2 quick-change shafts, 1000 rpm @ 2389 engine rpm Optional (Standard on 12 speed) 540/540E PTO, 540 rpm @ 1520 rpm
PTO Clutch	Multi-Plate wet clutch pack, features self-modulating engagement and self-activating brake
FRONT AXLE	
2 WHEEL DRIVE	
Steering	Hydrostatic Power Steering
Type	Adjustable Tubular steel
Tread spacing	Adjustable
FRONT AXLE	
4 WHEEL DRIVE	
Steering	55° Turning angle
Type	Cast Iron, Bevel Pinion Drive, with outboard planetary drive
Inter-axle Ratio	1.404649
HYDRAULIC SYSTEM	
System Type	Gear Pumps / Open Center
Pump Output Total	21.3 gpm ROPS
Available hydraulic flow	15.7 gpm @ 2929 psi
Power steering	5.4 gpm ROPS
Remote Valves	3 Max., 1st Valve is Standard SCD (Self Canceling Detent) 2nd and 3rd SCD or FD Float type
Set up sequence	1 Standard w/Self Canceling Detent, 2nd or 3rd optional SCD or FD (Float detent)
Set up sequence	The Flow Control option allows 2 remotes (The first SCD and a second SCD or FD) Flow Control Feature: A. Flow Control of one remote with simultaneous operation of 3 Point Hitch B. Simultaneous operation of the two remote valves
THREE POINT HITCH	
3-Point Hitch	Category II
Controls	Position with Draft and Mix Control
Draft type	Top link sensing
Right link adjustment	Crank type
Lift Arms	Extendible lower link ends, adjustable stabilizers for hitch arms.
Lift Capacity At lift points	7055 lb / 8860 lb optional or standard on 12 speed
24" Behind lift points(ISO)	4630 lb Standard / 6063 lbs. standard on 12 Speed models, optional on 8 Speed models
DRAWBAR	
Specifications	Max. Tongue weight 3300 lbs Dimension. 1.25 inch thick X 2.5 inch wide
Type	Swinging
Two Positions	14" for the 540 rpm PTO speed and 16" for the optional 1000 rpm PTO speed

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ELECTRICAL		
System	12 volt electrical system	
Battery	12 volt battery 900 CCA	
Alternator	ROPS Model 45 Amp Cab Model 60 Amp High Capacity 100 Amp Alternator / Optional	
INSTRUMENTATION		
Gauges	Fuel level, Engine Temp., Intelipanel	
Dash Panel	Indicator Lights for: 4WD engagement, Flasher / Turn Signals – Thermo Preheat System, 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	99.0 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	4 WHEEL DRIVE	
Maximum (tare weight)	13200 lbs.	15400 lbs

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M5-091 Utility Tractors (Cont.)

TIRE OPTIONS:

M5-091HF/HFC 2WD		M5-091HD/HD12/HDC/HDC12 4WD	
F-7.5-18 F2 TITAN TRU TRAC TT (STD) R-18.4-30 R1W G DYR 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 G DYR OPTRAC (STD)	
F-10.00-16 F2 F-STONE CHAMP GUIDE GRIP R-18.4-30 R1W G DYR OPTRAC	F-27x9.50-15 HF-1 G DYR 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 G DYR 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 G DYR OPTRAC		F-7.5-18 F2 TITAN TRU TRAC TT R-460/85R30 R1W G DYR OPTRAC	
F-10.00-16 F2 F-STONE CHAMP GUIDE GRIP R- 460/85R30 R1W G DYR OPTRAC		F-10.00-16 F2 F-STONE CHAMP GUIDE GRIP R-460/85R30 R1W G DYR OPTRAC	
F-7.5-18 F2 TITAN TRU TRAC TT R-460/85R30 R1W G DYR OPTRAC CAST		F- 7.5-18 F2 TITAN TRU TRAC TT R-460/85R30 R1W G DYR OPTRAC CAST	
F-10.00-16 F2 F-STONE CHAMP GUIDE GRIP R- 460/85R30 R1W G DYR OPTRAC CAST		F-10.00-16 F2 F-STONE CHAMP GUIDE GRIP R-460/85R30 R1W G DYR 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 G DYR 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	Radial tire options carry same speed
	3	3.20	3.20	3.40	3.30	
	4	4.60	4.60	4.80	4.80	
1	5.70	5.60	5.90	5.90		
High	2	8.60	8.50	9.00	8.90	
	3	12.40	12.30	13.00	12.90	
	4	17.70	17.60	18.60	18.40	

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 16.9-24 84%
	2	0.31	0.31	0.33	0.33	R1 Ag 16.9-30
	3	0.40	0.40	0.43	0.43	R1 Ag 97%16.9-34
	4	0.51	0.51	0.56	0.55	R1 Ind 100%19.5L-24
	5	0.63	0.63	0.69	0.68	R4 85%
	6	0.91	0.90	0.98	0.98	R3 Turf,2WD 18.4-26 90%
Low	1	1.50	1.50	1.70	1.70	Radial tire options carry same speed
	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	23.60	23.5*	23.6*	23.5*	

* Engine Governed @ 2080 RPM

KUBOTA M5-091 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

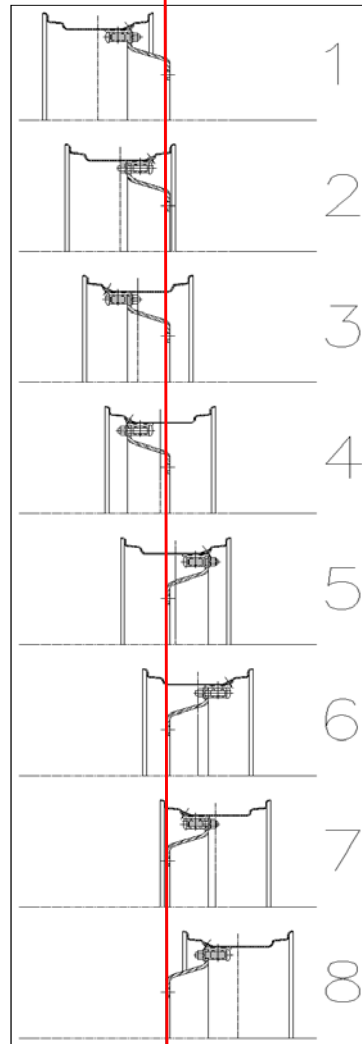
Rear AMR9258A 16.9-34 R1	Wheel offset	Center to Center	Overall Width
Position 4	0.215	60.17	77.87
Position 5	-1.715	64.03	81.73
Position 6	-3.715	68.03	85.73
Position 7	-5.665	71.93	89.63
Position 8	-7.665	75.93	93.63

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

Factory



Tractor Axle
Right Side Rear View



KUBOTA M5-091 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

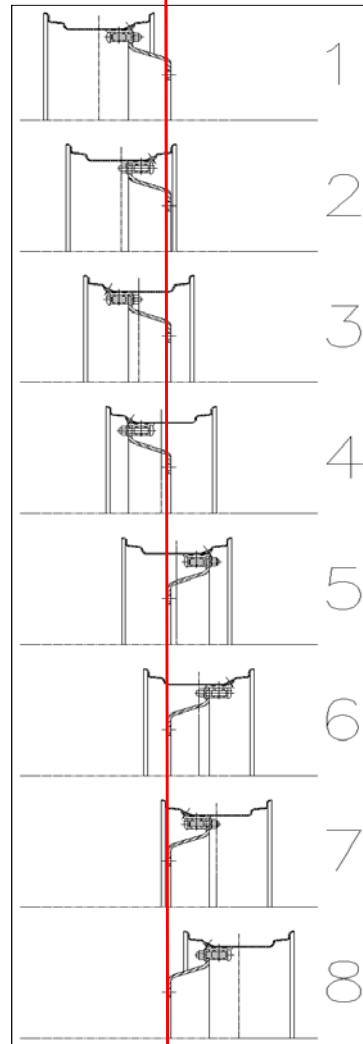
Rear AMR8514B 16.9-34 R1	Wheel offset	Center to Center	Overall Width
Position 4	-0.247	61.094	79.794
Position 5	-1.253	63.106	81.806
Position 6	-3.253	67.106	85.806
Position 7	-6.127	72.854	91.554
Position 8	-8.127	76.854	95.554

Rear AMR8537A 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	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



Factory

Tractor Axle
Right Side Rear View