

TO THE READER

This Workshop Manual has been prepared to provide servicing personnel with information on the mechanism, service and maintenance of Kubota Tractor M4950(DT), M5950(DT), M6950(DT) and M7950(DT). It is divided into two parts, "Mechanism" and "Disassembly and Servicing."

■ Mechanism

Information on construction and function are included for each tractor section. This part should be understood before proceeding with troubleshooting, disassembly and servicing.

■ Disassembly and Servicing

Under the heading "General" comes general precautions, troubleshooting, and lists of servicing reference values and periodic inspection items. For each tractor section, there are "Checking and Adjustment", "Disassembly and Assembly", and "Servicing" which cover procedures, precautions, reference values and allowable limits.

For a detailed engine description for S2800 [M4950(DT)], refer to "Kubota Diesel Engine Work Shop Manual S2200-B · S2600-B · S2800-B" (Code No: 07909-70108), and for D3200 [M5950(DT)], V4000-2 [M6950(DT)] and V4300 [M7950(DT)], refer to "Kubota Diesel Engine Workshop Manual D3000-B · D3200-B · V4000-B · V4300-B" (Code No: 07909-70103).

All information, illustrations and specifications contained in this manual are based on the latest production information available at the time of publication. The right is reserved to make changes in all information at any time without notice.

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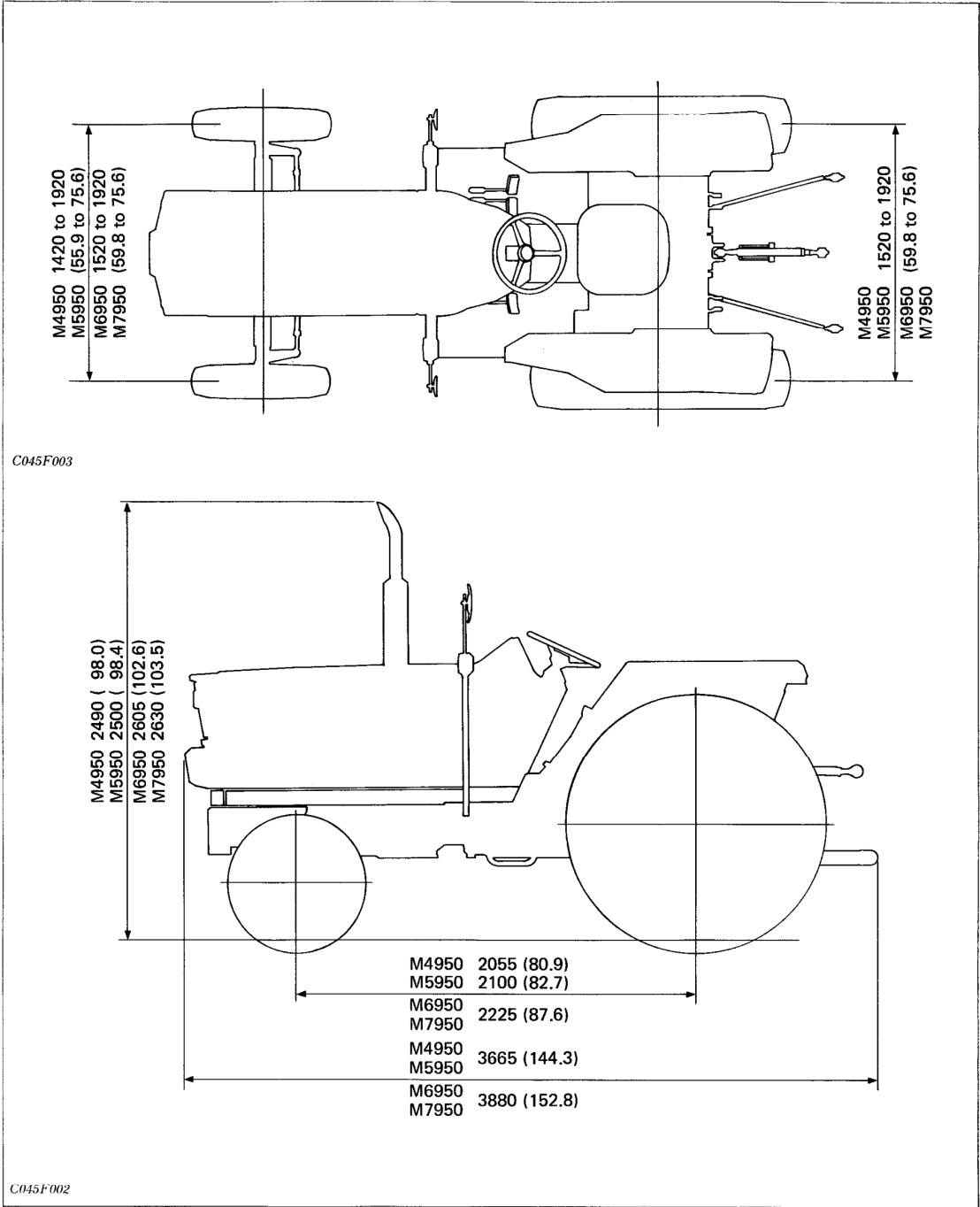
SPECIFICATIONS

Model			M4950	M4950DT
Maximum P.T.O. power			46ps, 34kW	
Engine	Model		S2800	
	Type		Vertical, water-cooled, 4-cycle diesel engine	
	Number of cylinders		6	
	Total displacement		2791cm ³ (170 cu.in.)	
	Bore and stroke		85 x 82mm (3.3 x 3.2 in.)	
	Engine rated output		51HP, 38.0kW	
	Rated revolution		2600 rpm	
	Maximum torque		17.9kgf·m (175.5N·m, 129.5ft·lbs)/1200 rpm	
	Battery		12V, 150Ah	
	Fuel		Diesel fuel No. 1-D [below −10° C (15° F)] Diesel fuel No. 2-D [above −10° C (15° F)] (ASTM D975)	
	Fuel tank capacity		85ℓ (22.5 U.S. gals, 18.7 Imp. gals)	
	Engine crankcase capacity		13.7ℓ (3.6 U.S. gals, 3.0 Imp. gals)	
	Engine coolant capacity		8.2ℓ (2.2 U.S. gals, 1.8 Imp. gals)	
Dimensions	Overall length		3665mm (144.3 in.)	
	Overall width		1800mm (70.9 in.)	
	Height to top of muffler		2490mm (98.0 in.)	
	Wheel base		2055m (80.9 in.)	2090mm (82.3 in.)
	Tread	Front	1420 to 1920mm (55.9 to 75.6 in.)	1420, 1520mm (55.9, 59.8 in.)
		Rear	1420 to 2020mm (55.9 to 79.5 in.)	
	Minimum ground clearance		450mm (17.7 in.)	355mm (14.0 in.)
Weight			2600kg (5732 lbs.)	2900 (6393 lbs.)
Travelling system	Tire size	Front tires	7.5–16	9.5/9–24
		Rear tires	12.4/11–32	
	Clutch		Dry, single plate [285mm (11.2 in.)]	
	Steering		Full hydrostatic power steering	
	Transmission		Full synchromesh. 12 forward and 4 reverse	
	Brake	Travelling	Wet, multiple discs (mechanical and hydraulic)	
		Parking	Connected with the travelling brake	
Differential		Bevel gears (with differential lock)		
Hydraulic system	Hydraulic control system		Position, draft and mixed control	
	Pump-up capacity		35ℓ/min (9.2 U.S. gals/min, 7.7 Imp. gals/min)	
	Three-point hitch		Category I & II	
	Maximum lifting force		2000kg (4409 lbs) at lower link end 1500kg (3307 lbs) at 610mm (24 in.) behind lift point	
P T O	Independent clutch		Dry, single plate [257mm (10.8 in.)]	
	Live P T O	Direction of turning	Clockwise, viewed from tractor rear	
		P T O speed	540 rpm at 2194 engine rpm 1000 rpm at 2530 engine rpm) 6 spline shaft	
	Ground PTO		Direction of turning	Clockwise, viewed from tractor rear
Traction system			Swing drawbar, adjustable in direction	

M5950	M5950DT	M6950	M6950DT	M7950	M7950DT
56psi, 41kW D3200		66psi, 49kW V4000-2		76psi, 56kW V4300	
Vertical, water-cooled, 4-cycle diesel engine	3	Vertical, water-cooled, 4-cycle diesel engine	4	Vertical, water-cooled, 4-cycle diesel engine	4
3219cm ³ (196 cu.in.) 109 x 115mm (4.3 x 4.5 in.) 61HP, 45.5kW 2400 rpm		3983cm ³ (243 cu.in.) 105 x 115mm (4.1 x 4.5 in.) 71HP, 53.0kW 2400 rpm		4293cm ³ (262 cu.in.) 109 x 115mm (4.3 x 4.5 in.) 81HP, 60.4kW 2400 rpm	
21.6kgf-m (211.8N-m), 156.2ft-lbs(1/1300 rpm 12V, 300Ah		26.1kgf-m (256.0N-m), 188.8ft-lbs(1/1400 rpm 12V, 300Ah		29.0kgf-m (284.4N-m), 209.8ft-lbs(1/1200 rpm 12V, 300Ah	
Diesel fuel No. 1-D (below -10°C (15°F)) (ASTM D975) Diesel fuel No. 2-D (above -10°C (15°F)) 550 (22.5 U.S. gals, 18.7 imp. gals) 9.88 (2.6 U.S. gals, 2.2 imp. gals) 11.6X (3.1 U.S. gals, 2.6 imp. gals) 3665mm (144.3 in.) 1850mm (72.3 in.)		Diesel fuel No. 1-D (below -10°C (15°F)) (ASTM D975) Diesel fuel No. 2-D (above -10°C (15°F)) 100X (26.4 U.S. gals, 22.0 imp. gals) 13.2X (3.5 U.S. gals, 2.9 imp. gals) 13.6X (3.6 U.S. gals, 3.0 imp. gals) 3880mm (152.8 in.) 1990mm (78.2 in.)		Diesel fuel No. 1-D (below -10°C (15°F)) (ASTM D975) Diesel fuel No. 2-D (above -10°C (15°F)) 100X (26.4 U.S. gals, 22.0 imp. gals) 13.2X (3.5 U.S. gals, 2.9 imp. gals) 13.6X (3.6 U.S. gals, 3.0 imp. gals) 3880mm (152.8 in.) 1940mm (76.4 in.)	
2500mm (88.4 in.) 2100mm (82.7 in.) 1420 to 1920mm (55.9 to 75.6 in.) 1520 to 1920mm (59.8 to 75.6 in.) 465mm (18.3 in.) 2700kg (5952 lbs) 7.50-18	2515mm (99.0 in.) 2115mm (83.3 in.) 1420 to 1920mm (55.9 to 75.6 in.) 1520 to 1920mm (59.8 to 75.6 in.) 370mm (14.6 in.) 3000kg (6614 lbs) 9.50/9-24	2500mm (98.4 in.) 2225mm (87.6 in.) 1520 to 1920mm (59.8 to 75.6 in.) 1520 to 1920mm (59.8 to 75.6 in.) 535mm (21.1 in.) 2950kg (6537 lbs) 7.50-18	2630mm (103.5 in.) 2280mm (89.0 in.) 1540, 1640mm (60.6, 64.6 in.) 1520 to 1920mm (59.8 to 75.6 in.) 385mm (15.1 in.) 3250kg (7165 lbs) 11.2/10-24	2630mm (103.5 in.) 2225mm (87.6 in.) 1520 to 1920mm (59.8 to 75.6 in.) 1520 to 1920mm (59.8 to 75.6 in.) 440mm (17.3 in.) 3050kg (6724 lbs) 10.0-16	2630mm (104.7 in.) 2260mm (89.0 in.) 1540, 1640mm (60.6, 64.6 in.) 1520 to 1920mm (59.8 to 75.6 in.) 385mm (15.1 in.) 3350kg (7385 lbs) 11.2/10-24
16.9/14-30	16.9/14-30	13.6/12-38	13.6/12-38	16.9/14-34	
Dry, single plate (285mm (11.2 in.)) Full hydrostatic power steering		Dry, single plate (325mm (12.8 in.)) Full hydrostatic power steering		Dry, single plate (325mm (12.8 in.)) Full hydrostatic power steering	
Full synchronesh. 12 forward and 4 reverse		Full synchronesh. 12 forward and 4 reverse		Full synchronesh. 12 forward and 4 reverse	
Wet, multiple discs (mechanical and hydraulic)		Wet, multiple discs (hydraulic)		Wet, multiple discs (hydraulic)	
Connected with the travelling brake		Wet, discs		Wet, discs	
Bevel gears (with differential lock)		Bevel gears (with differential lock)		Bevel gears (with differential lock)	
Position, draft and mixed control		Position, draft and mixed control		Position, draft and mixed control	
350/min (9.2 U.S. gals/min, 7.7 imp. gals/min)		41.5/min (11.0 U.S. gals/min, 9.1 imp. gals/min)		41.5/min (11.0 U.S. gals/min, 9.1 imp. gals/min)	
Category I & II		Category II		Category II	
2000kg (4409 lbs) at lower link end 1500kg (3307 lbs) at 610mm (24 in.) behind lift point Dry, single plate (257mm (10.8 in.)) Clockwise, viewed from tractor rear 540 rpm at 2381 engine rpm, 6 spline shaft 1000 rpm at 2381 engine rpm, 6 spline shaft Clockwise, viewed from tractor rear	2700kg (5952 lbs) at lower link end 2200kg (4848 lbs) at 610mm (24 in.) behind lift point Wet, multiple plates (hydraulic) Clockwise, viewed from tractor rear 540 rpm at 2035 engine rpm 6 spline shaft 850 rpm at 2391 engine rpm 6 spline shaft Clockwise, viewed from tractor rear	2700kg (5952 lbs) at lower link end 2200kg (4848 lbs) at 610mm (24 in.) behind lift point Wet, multiple plates (hydraulic) Clockwise, viewed from tractor rear 540 rpm at 2035 engine rpm 6 spline shaft 850 rpm at 2391 engine rpm 6 spline shaft Clockwise, viewed from tractor rear	2700kg (5952 lbs) at lower link end 2200kg (4848 lbs) at 610mm (24 in.) behind lift point Wet, multiple plates (hydraulic) Clockwise, viewed from tractor rear 540 rpm at 2035 engine rpm 6 spline shaft 850 rpm at 2391 engine rpm 6 spline shaft Clockwise, viewed from tractor rear	2700kg (5952 lbs) at lower link end 2200kg (4848 lbs) at 610mm (24 in.) behind lift point Wet, multiple plates (hydraulic) Clockwise, viewed from tractor rear 540 rpm at 2035 engine rpm 6 spline shaft 850 rpm at 2391 engine rpm 6 spline shaft Clockwise, viewed from tractor rear	
Swing drawbar, adjustable in direction		Swing drawbar, adjustable in direction		Swing drawbar, adjustable in direction	

[M4950 · M5950 · M6950 · M7950]

Unit: mm (in.)

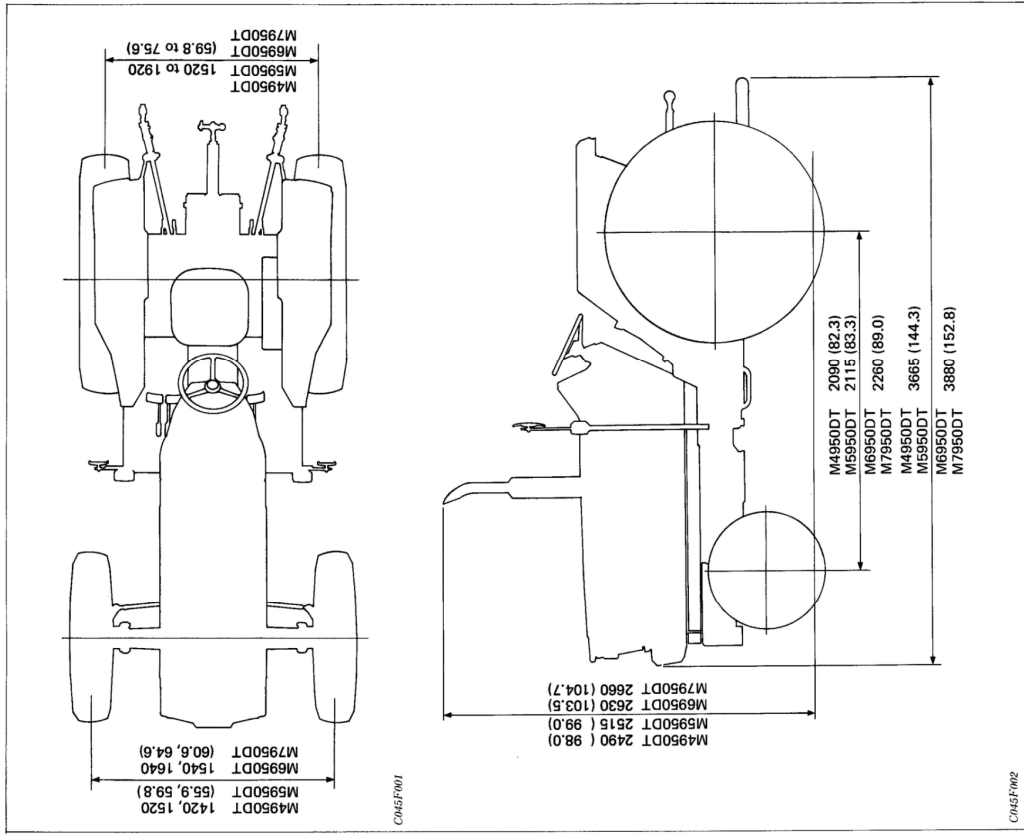


DIMENSION

DIMENSION

[M4950DT · M5950DT · M6950DT · M7950DT]

Unit: mm (in.)



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