WSM

WORKSHOP MANUAL
TRACTOR

M7040SUHD
(SUPPLEMENT)

Kubota

KiSC issued 08, 2011 A

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INFORMATION

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1. SAFETY FIRST

⚠ SAFETY FIRST

- **This symbol, the industry's "Safety Alert Symbol", is used throughout this manual and on labels on the machine itself to warn of the possibility of personal injury. Read these instructions carefully.**
- **It is essential that you read the instructions and safety regulations before you attempt to repair or use this unit.**

⚠ DANGER
- **Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.**

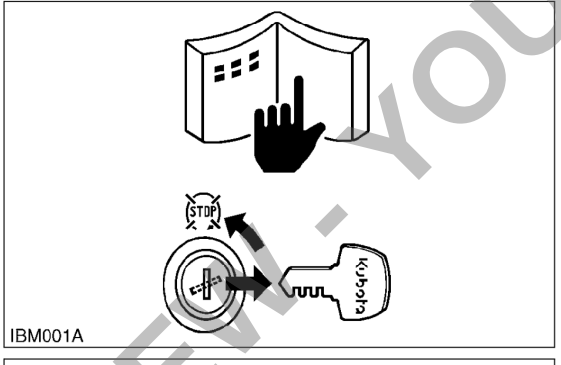
⚠ WARNING
- **Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.**

⚠ CAUTION
- **Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.**

■ IMPORTANT
- **Indicates that equipment or property damage could result if instructions are not followed.**

■ NOTE
- **Gives helpful information.**

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BEFORE YOU START SERVICE

- Read all instructions and safety instructions in this manual and on your machine safety decals.
- Clean the work area and machine.
- Park the machine on a stable and level ground, and set the parking brake.
- Lower the implement to the ground.
- Stop the engine, then remove the key.
- Disconnect the battery negative cable.
- Hang a **"DO NOT OPERATE"** tag in the operator station.

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START SAFELY

- Do not do the procedures below when you start the engine.
  - short across starter terminals
  - bypass the safety start switch
- Do not alter or remove any part of machine safety system.
- Before you start the engine, make sure that all shift levers are in neutral positions or in disengaged positions.
- Do not start the engine when you stay on the ground. Start the engine only from operator's seat.

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3. SPECIFICATIONS

Model			M7040SUH
			4WD
Engine	Model		V3307-DI-TE2
	Type		Direct injection, liquid cooled, 4 cylinder diesel
	Number of cylinders		4
	Total displacement		3331 cm^3 (203 cu.in.)
	Bore and stroke		94 × 120 mm (3.7 × 4.7 in.)
	Rated revolution		2600 min^{-1} (rpm)
	Low idling revolution		875 to 925 min^{-1} (rpm)
	Net power		50.7 kW (68 HP)*
	PTO power (factory observed)		46.2 kW (62 HP)*
	Maximum torque		232 N·m (23.7 kgf·m, 171 lbf·ft) / 1500 to 1700 min^{-1} (rpm)
	Battery		12 V, RC: 160 min., CCA 900 A
	Fuel tank capacity		70.0 L (18.5 U.S. gals, 15.4 Imp. gals)
	Engine crankcase capacity		11.0 L (11.6 U.S.qts, 9.68 Imp.qts)
	Engine coolant capacity		8.0 L (8.5 U.S.qts, 7.0 Imp.qts)
Dimensions	Overall length		3500 mm (137.8 in.)
	Overall width (Minimum tread)		1860 mm (73.23 in.)
	Overall height		2470 mm (97.24 in.)
	Wheel base		2050 mm (80.71 in.)
	Tread	Front	1420, 1520 mm (55.9, 59.8 in.)
		Rear	1420 to 1720 mm (55.9 to 67.7 in.)
	Minimum ground clearance		415 mm (16.3 in.) (Fuel tank stay)
Weight			2090 kg (4608 lbs)
Travelling system	Standard tire size	Front	9.5-24
		Rear	16.9-30
	Clutch		Multiple wet disks
	Steering		Hydrostatic power steering
	Brake	Travelling	Multiple wet disks mechanical
	Differential		Bevel gears with differential lock (Rear)
Hydraulic system	Hydraulic control system		Position control
	Pump-up capacity		43.9 L (11.6 U.S.gals, 9.66 Imp.gals)/min.
	Three point hitch		Category 1 & 2
	Maximum lifting force	At lifting points	1900 kg (4189 lbs) at lower link end with links horizontal
		24 in. behind lifting point	1500 kg (3307 lbs) at 610 mm (24 in.) behind lifting point
	Remote hydraulic control		1 standard with detent and self cancelling (2nd and 3rd valve optional)
	System pressure		19.1 MPa (195 kgf/cm^2, 2773 psi)
	Traction system		Swinging drawbar, adjustable in direction
PTO	Live PTO (Independent)	Direction of turning	Clockwise, viewed from tractor rear
		PTO speed	6 spline: 540 min^{-1} (rpm) at 2295 engine min^{-1} (rpm)

NOTE: *Manufacturer's estimate The company reserves the right to change the specifications without notice.

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4. LUBRICANTS, FUEL AND COOLANT

No.	Place	Capacity	Lubricants, fuel and coolant
1	Fuel tank	70.0 L 18.5 U.S.gals 15.4 Imp.gals	• No. 2-D diesel fuel • No. 1-D diesel fuel if temperature is below –10 °C (14 °F)
2	Coolant	8.0 L 8.5 U.S.qts 7.0 Imp.qts	Fresh clean water with anti-freeze
	Recovery tank	1.0 L 1.1 U.S.qts 0.9 Imp.qts	
3	Engine crankcase (with filter)	11.0 L 11.6 U.S.qts 9.68 Imp.qts	**Engine oil** API Service Classification* CF, or CI-4 [External EGR Type] • Below 0 °C (32 °F) SAE10W, 10W-30 or 15W-40 • 0 to 25 °C (32 to 77 °F) SAE20, 10W-30 or 15W-40 • Above 25 °C (77 °F) SAE30, 10W-30 or 15W-40
4	Transmission case	48.0 L 50.7 U.S.qts 42.2 Imp.qts	KUBOTA SUPER UDT fluid*2
5	Front differential case oil	6.6 L 7.0 U.S.qts 5.8 Imp.qts	KUBOTA UDT or KUBOTA SUPER UDT fluid* or SAE80, SAE90 gear oil
6	Front axle gear case oil (one side)	3.0 L 3.2 U.S.qts 2.6 Imp.qts	

Greasing				
No.	**Place**	**No. of greasing point**	**Capacity**	**Type of grease**
7	Top link	2	Until grease overflows	Multipurpose grease NLG1-2 or NLG1-1 (GC-LB) grease
	Lift rod	1		
	Front axle gear case support [4WD]	2		
	Front axle support	2		
	Battery terminal	2	Moderate amount	

* KUBOTA original transmission hydraulic fluid.

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6. MAINTENANCE CHECK LIST

No.	Item			Indication on hour meter													Interval	Important	
				50	100	150	200	250	300	350	400	450	500	550	600	650	700			
1	Engine start system		Check	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50 Hr		
2	Wheel bolt torque		Check	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50 Hr		
3	Battery condition		Check		☆		☆		☆		☆		☆		☆		☆	every 100 Hr	*4	
4	Greasing		–		☆		☆		☆		☆		☆		☆		☆	every 100 Hr		
5	Fan belt		Adjust		☆		☆		☆		☆		☆		☆		☆	every 100 Hr		
6	Alternator belt		Adjust		☆		☆		☆		☆		☆		☆		☆	every 100 Hr		
7	Brake pedal		Adjust		☆		☆		☆		☆		☆		☆		☆	every 100 Hr		
8	Air cleaner element [Double type]	Primary element	Clean		☆		☆		☆		☆		☆		☆		☆	every 100 Hr	*1	
			Replace															every 1 year	*2	
		Secondary element	Replace															every 1 year		
9	Fuel line		Check		☆		☆		☆		☆		☆		☆		☆	every 100 Hr		@
			Replace															every 2 years		
10	Toe-in		Adjust				☆				☆				☆			every 200 Hr		
11	Fuel tank water		Drain				☆				☆				☆			every 200 Hr		
12	Power steering oil line		Check				☆				☆				☆			every 200 Hr		
			Replace															every 2 years		
13	Radiator hose and clamp		Check				☆				☆				☆			every 200 Hr		
			Replace															every 2 years		
14	Intake air line		Check				☆				☆				☆			every 200 Hr		@
			Replace															every 2 years	*3	
15	Hydraulic oil filter		Replace	★					☆						☆			every 300 Hr		
16	Engine oil		Change	★							☆							every 400 Hr		
17	Engine oil filter		Replace	★							☆							every 400 Hr		
18	Water separator		Clean								☆							every 400 Hr		
19	Fuel filter		Replace								☆							every 400 Hr		@
20	Transmission fluid		Change												☆			every 600 Hr		
21	Front differential case oil		Change												☆			every 600 Hr		
22	Front axle case oil		Change												☆			every 600 Hr		
23	Front axle pivot		Adjust												☆			every 600 Hr		@
24	Engine valve clearance		Adjust															every 800 Hr		

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1. TROUBLESHOOTING

Symptom	Probable Cause	Solution	Reference Page
Shuttle Clutch Slip	Operating pressure is low	Adjust	H3-S7
	Shuttle clutch valve malfunctioning	Replace	H3-S8
	Clutch disc or steel plate excessively worn	Replace	H3-S21, H3-S33
	Deformation of piston or steel plate	Replace	H3-S21, H3-S33
Shuttle Clutch Operating Pressure Is Low	Transmission oil improper or insufficient	Replenish or change	HG-8
	Relief valve malfunctioning	Adjust or replace	–
Shuttle Clutch Drags	Return spring weak or broken	Replace	H3-S21
	Modulating valve malfunctioning	Replace	H3-S8
	Deformation of piston or steel plate	Replace	H3-S21, H3-S33

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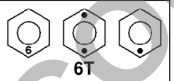
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5. TIGHTENING TORQUES

[1] GENERAL USE SCREWS, BOLTS AND NUTS

Screws, bolts and nuts whose tightening torques are not specified in this Workshop Manual should be tightened according to the table below.

Indication on top of bolt	 No-grade or 4T						 7T						 9T		
Indication on top of nut	 No-grade or 4T												 6T		
Material of opponent part	Ordinariness			Aluminum			Ordinariness			Aluminum			Ordinariness		
Unit	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft
M6	7.9 to 9.3	0.80 to 0.95	5.8 to 6.8	7.9 to 8.8	0.80 to 0.90	5.8 to 6.5	9.81 to 11.2	1.00 to 1.15	7.24 to 8.31	7.9 to 8.8	0.80 to 0.90	5.8 to 6.5	12.3 to 14.2	1.25 to 1.45	9.05 to 10.4
M8	18 to 20	1.8 to 2.1	13 to 15	17 to 19	1.7 to 2.0	13 to 14	24 to 27	2.4 to 2.8	18 to 20	18 to 20	1.8 to 2.1	13 to 15	30 to 34	3.0 to 3.5	22 to 25
M10	40 to 45	4.0 to 4.6	29 to 33	32 to 34	3.2 to 3.5	24 to 25	48 to 55	4.9 to 5.7	36 to 41	40 to 44	4.0 to 4.5	29 to 32	61 to 70	6.2 to 7.2	45 to 52
M12	63 to 72	6.4 to 7.4	47 to 53	–	–	–	78 to 90	7.9 to 9.2	58 to 66	63 to 72	6.4 to 7.4	47 to 53	103 to 117	10.5 to 12.0	76.0 to 86.7
M14	108 to 125	11.0 to 12.8	79.6 to 92.5	–	–	–	124 to 147	12.6 to 15.0	91.2 to 108	–	–	–	167 to 196	17.0 to 20.0	123 to 144
M16	167 to 191	17.0 to 19.5	123 to 141	–	–	–	197 to 225	20.0 to 23.0	145 to 166	–	–	–	260 to 304	26.5 to 31.0	192 to 224
M18	246 to 284	25.0 to 29.0	181 to 209	–	–	–	275 to 318	28.0 to 32.5	203 to 235	–	–	–	344 to 402	35.0 to 41.0	254 to 296
M20	334 to 392	34.0 to 40.0	246 to 289	–	–	–	368 to 431	37.5 to 44.0	272 to 318	–	–	–	491 to 568	50.0 to 58.0	362 to 419

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[2] STUD BOLTS

Material of opponent part	Ordinariness			Aluminum		
Unit	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft
M8	12 to 15	1.2 to 1.6	8.7 to 11	8.9 to 11	0.90 to 1.2	6.5 to 8.6
M10	25 to 31	2.5 to 3.2	18 to 23	20 to 25	2.0 to 2.6	15 to 18
M12	30 to 49	3.0 to 5.0	22 to 36	31	3.2	23
M14	62 to 73	6.3 to 7.5	46 to 54	–	–	–
M16	98.1 to 112	10.0 to 11.5	72.4 to 83.1	–	–	–
M18	172 to 201	17.5 to 20.5	127 to 148	–	–	–

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