WSM

WORKSHOP MANUAL
TRACTOR

M7040DT-SU

Kubota

KiSC issued 01, 2022 A

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INFORMATION

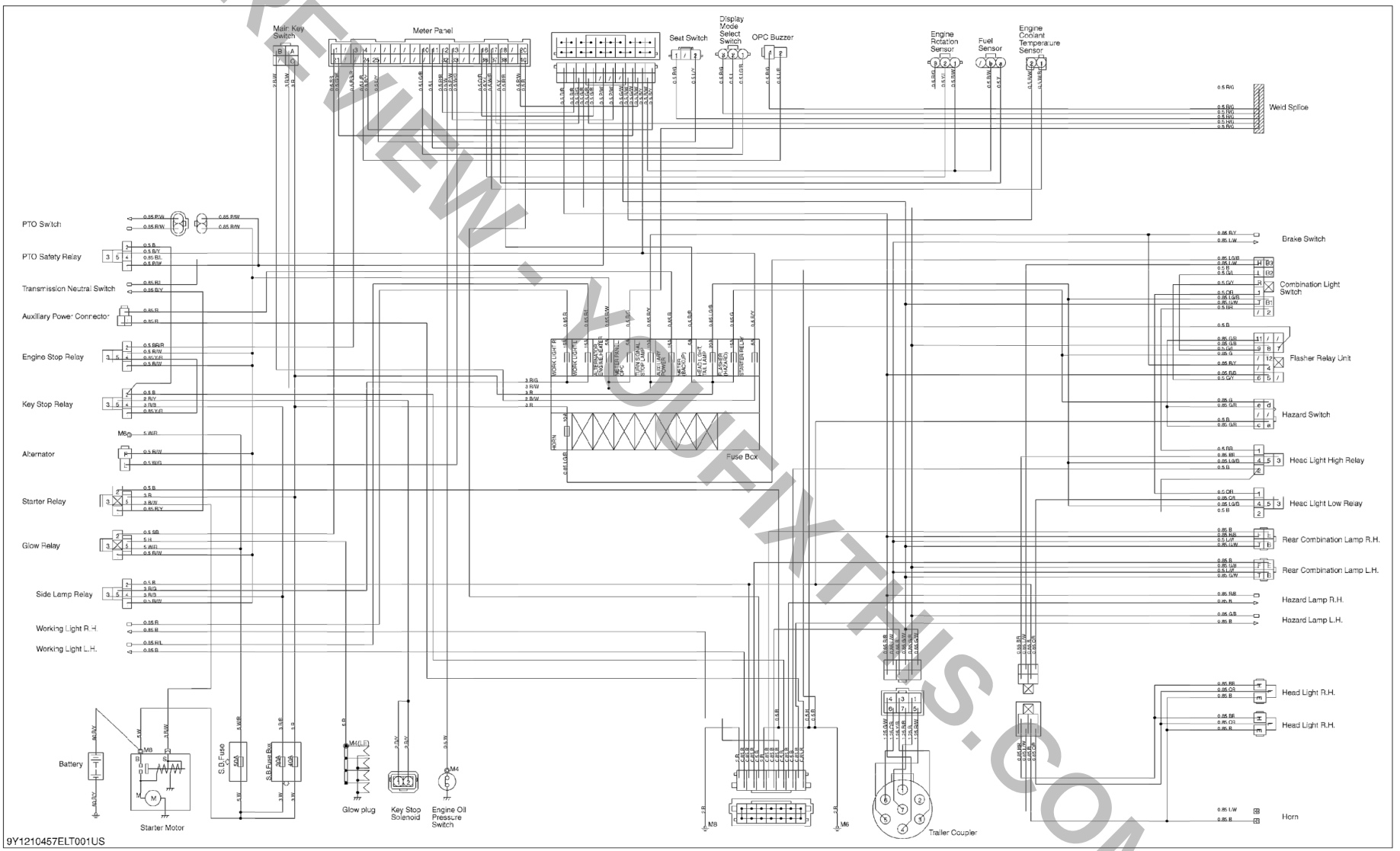
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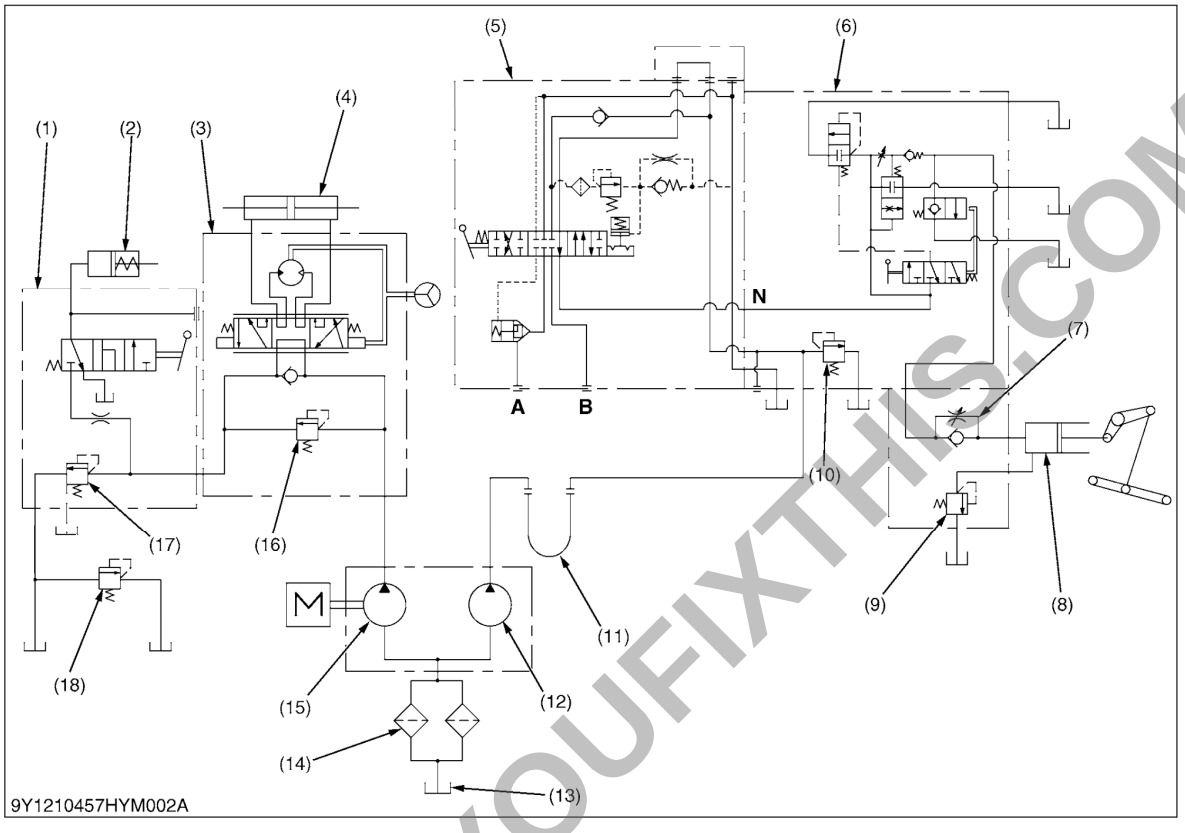
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1. WIRING DIAGRAM



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2. HYDRAULIC CIRCUIT



(1) PTO Clutch Valve
(2) PTO Clutch Pack
(3) Power Steering Controller
(4) Steering Cylinder
(5) Auxiliary Control Valve
(6) Control Valve
(7) Lowering Speed Adjusting Valve
(8) Hydraulic Cylinder (for 3-Point Linkage)
(9) Cylinder Safety Valve
(10) Relief Valve (for 3-Point Linkage)
(11) Hydraulic Outlet
(12) Hydraulic Pump (for 3-Point Linkage)
(13) Oil Tank (Transmission Case)
(14) Hydraulic Oil Filter Cartridge
(15) Hydraulic Pump (for Power Steering and PTO Clutch)
(16) Relief Valve (Steering Controller)
(17) Relief Valve (PTO Valve)
(18) Relief Valve (Lubricating Line)

A : To Implement Cylinder
B : To Implement Cylinder
N : N Port

The hydraulic system of this tractor is composed of the main components as shown in the figure.

- To raise and lower the implement connected to the three-point hitch. For this motion, the position control valve and the linkage installed on the hydraulic cylinder body.
- Take out hydraulic power from the hydraulic cylinder body to operate an implement's hydraulic actuator.

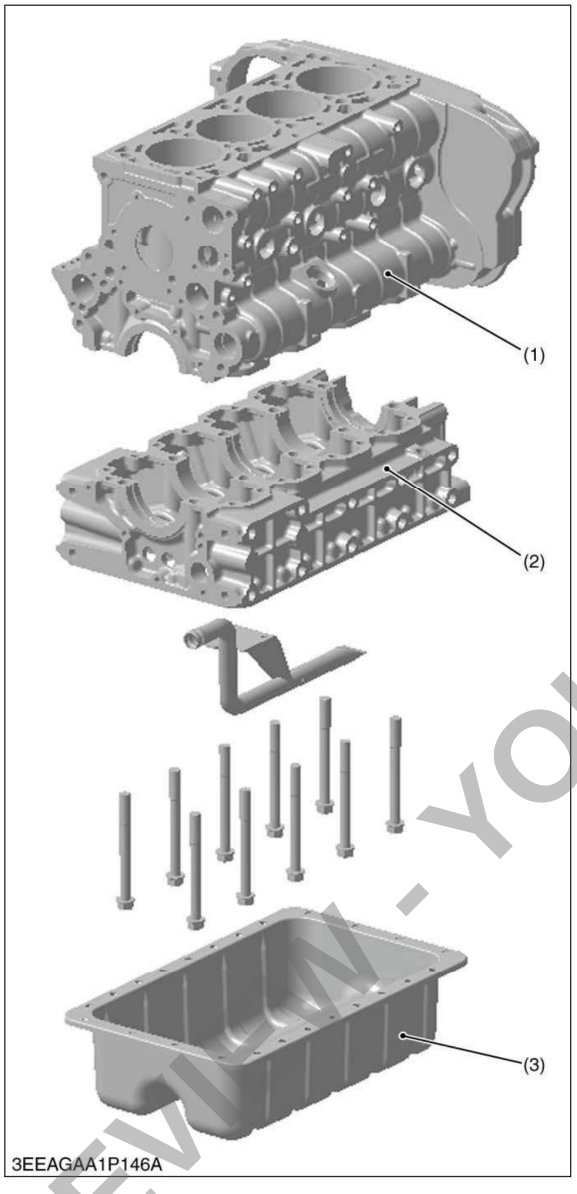
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2. ENGINE BODY

[1] CYLINDER BLOCK



The V3307 DI engine employs ladder frame structure type crankcases - the crankcase 1 (1) with combustion part and the crankcase 2 (2) which supports the crankcase 1 (1).

The following benefits are in the ladder frame structure.

1. Minimizing parts.
2. Noise reduction.
3. Reduction of loss and dispersion on friction thanks to accuracy of axial concentricity.

The cylinder is a linerless type which enables good cooling operation, less strain and good abrasion resistance.

(1) Crankcase 1
(2) Crankcase 2
(3) Oil Pan

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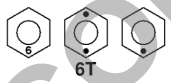
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5. TIGHTENING TORQUES

[1] GENERAL USE SCREWS, BOLTS AND NUTS

Tighten screws, bolts and nuts whose tightening torques are not specified in this Workshop Manual 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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7. CHECK AND MAINTENANCE

CAUTION

- **Be sure to check and service the tractor on a flat place with engine shut off, the parking brake on and chock the wheels.**

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[1] DAILY CHECK

To prevent trouble from occurring, it is important to know the condition of the tractor. Check the following items before starting.

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Checking

- Check areas where previous trouble was experienced.
- Walk around the tractor.

1. Check the tire pressure, and check for wear and damage.
2. Check for oil and water leaks.
3. Check the engine oil level.
4. Check the transmission fluid level.
5. Check the coolant level.
6. Check and clean the radiator screen and grill.
7. Check the bolts and nuts of the tires are tight.
8. Check the number plate or SMV emblem for damage if equipped.
9. Care of danger, warning and caution labels.
10. Clean around the exhaust manifold and the muffler of the engine.
11. Check the ROPS.

- While sitting in the operator's seat.

1. Check the throttle pedal, brake pedals and clutch pedal.
2. Check the parking brake.
3. Check the steering wheel.
4. Check the seat belt condition.

- Turning the key switch.

1. Check the performance of the Easy Checker lights.
2. Check head lights, tail lights and hazard light.
   Clean if necessary.
3. Check the performance of the meters and gauges.

- Starting the engine.

1. Check to see that the lights on the Easy Checker go off.
2. Check the color of the exhaust.
3. Check the brakes for proper operation.

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1. TROUBLESHOOTING

Symptom	Probable Cause	Solution	Reference Page
Engine Does Not Start	No fuel	Replenish fuel	G-10
	Air in the fuel system	Bleed	G-33
	Water in the fuel system	Change fuel and repair or replace fuel system	G-10, G-28
	Fuel hose clogged	Clean	G-23
	Fuel filter clogged	Replace	G-28
	Excessively high viscosity of fuel or engine oil at low temperature	Use the specified fuel or engine oil	G-10
	Fuel with low cetane number	Use the specified fuel	G-10
	Fuel leak due to loose injection pipe retaining nut	Tighten retaining nut	1-S27
	Incorrect injection timing	Adjust	1-S17
	Fuel camshaft worn	Replace	1-S37
	Injection nozzle clogged	Replace	1-S28
	Injection pump malfunctioning	Repair or replace	1-S39
	Seizure of crankshaft, camshaft, piston, cylinder or bearing	Repair or replace	1-S46
	Compression leak from cylinder	Replace head gasket, tighten cylinder head screw, glow plug and nozzle holder	1-S12, 1-S27
	Improper valve timing	Correct or replace timing gear	1-S45
	Piston and cylinder worn	Replace	1-S46
	Excessive valve clearance	Adjust	1-S13
	Stop solenoid malfunctioning	Replace	9-S14
Starter Does Not Run	Battery discharged	Charge	G-25
	Starter malfunctioning	Repair or replace	9-S13
	Main switch malfunctioning	Repair or replace	9-S11
	PTO switch defective	Replace	9-S23
	Neutral switches improperly adjusted or defective	Repair or replace	9-S23
	Starter relay defective	Replace	9-S28
	Wiring disconnected	Connect	–
Engine Revolution is Not Smooth	Fuel filter clogged or dirty	Replace	G-28
	Air cleaner clogged	Clean or change	G-22
	Fuel leak due to loose injection pipe retaining nut	Tighten retaining nut	1-S27
	Injection pump malfunctioning	Repair or replace	1-S39
	Incorrect nozzle injection pressure	Adjust	1-S19
	Injection nozzle stuck or clogged	Replace	1-S28
	Governor malfunctioning	Repair	1-S32

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3. SPECIFICATIONS

Model			M7040SU
			4WD
Engine	Model		V3307-DI-E2
	Type		Vertical, water-cooled, 4-cycle diesel engine
	Number of cylinders		4
	Total displacement		3331 cm^3 (203 cu.in.)
	Bore and stroke		94 × 120 mm (3.7 × 4.7 in.)
	Net power		50.7 kW (68 HP)*
	PTO power (factory observed)		46.2 kW (62 HP)* / 2700 min^{-1} (rpm)
	Maximum torque		232 N·m (171.1 lbf·ft) / 1300 to 1500 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		Dry, Single plate
	Steering		Hydrostatic power steering
	Brake	Travelling	Wet type, multiple discs (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 I & II
	Maximum lifting force		1900 kg (4189 lbs) at lower link end 1500 kg (3307 lbs) at 610 mm (24 in.) behind lifting point
	Remote hydraulic control		1 standard (2nd and 3rd valve optional)
	System pressure		19.1 MPa (195 kgf/cm^2, 2773 psi)
	Traction system		Swinging drawbar, adjustable in direction
PTO	Independent clutch		Wet type, multiple discs
	Live PTO	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

	Place	Capacity	Lubricants, fuel and coolant
		M7040SUD	
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
3	Engine crankcase (with filter)	11.0 L 11.6 U.S.qts 9.68 Imp.qts	**Engine oil** API Service Classification CC or CD • Below 0 °C (32 °F) SAE10W, 10W-30 or 10W-40 • 0 to 25 °C (32 to 77 °F) SAE20, 10W-30 or 10W-40 • Above 25 °C (77 °F) SAE30, 10W-30 or 10W-40
4	Transmission case	44.0 L 46.5 U.S.qts 38.7 Imp.qts	KUBOTA UDT or SUPER UDT fluid*
5	Front differential gear case	6.6 L 7.0 U.S.qts 5.8 Imp.qts	KUBOTA UDT or SUPER UDT fluid* or SAE80, SAE90 gear oil
6	Front axle gear case	3.0 L 3.2 U.S.qts 2.6 Imp.qts	

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

* KUBOTA original transmission hydraulic fluid.

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6. MAINTENANCE

No.	Item			Service Interval														Since then	Important		Reference page
				50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Engine start system		Check	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50 Hr			G-20
2	Wheel bolt torque		Check	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50 Hr			G-20
3	Battery condition		Check		☆		☆		☆		☆		☆		☆		☆	every 100 Hr	*4		G-24
4	Greasing		–		☆		☆		☆		☆		☆		☆		☆	every 100 Hr			G-21
5	Fan belt		Adjust		☆		☆		☆		☆		☆		☆		☆	every 100 Hr			G-22
6	Alternator belt		Adjust		☆		☆		☆		☆		☆		☆		☆	every 100 Hr			G-23
7	Brake pedal		Adjust		☆		☆		☆		☆		☆		☆		☆	every 100 Hr			G-23
8	Clutch pedal		Adjust	★	☆		☆		☆		☆		☆		☆		☆	every 100 Hr			G-19
9	Air cleaner element	Primary element	Clean		☆		☆		☆		☆		☆		☆		☆	every 100 Hr	*1	@	G-22
			Replace															every 1 year	*2		G-30
		Secondary element	Replace															every 1 year			G-30
10	Fuel line		Check		☆		☆		☆		☆		☆		☆		☆	every 100 Hr		@	G-23
			Replace															every 2 years	*3		G-32
11	Toe-in		Adjust				☆				☆				☆			every 200 Hr			G-27
12	Fuel tank water		Drain				☆				☆				☆			every 200 Hr			G-27
13	Power steering oil line		Check				☆				☆				☆			every 200 Hr			G-26
			Replace															every 2 years			G-32
14	Radiator hose and clamp		Check				☆				☆				☆			every 200 Hr			G-26
			Replace															every 2 years			G-32
15	Intake air line		Check				☆				☆				☆			every 200 Hr		@	G-26
			Replace															every 2 years			G-32
16	Hydraulic oil filter		Replace	★					☆						☆			every 300 Hr			G-18
17	Engine oil		Change	★							☆							every 400 Hr			G-17
18	Engine oil filter		Replace	★							☆							every 400 Hr			G-17
19	Water separator		Clean								☆							every 400 Hr		@	G-28
20	Fuel filter		Replace								☆							every 400 Hr		@	G-28
21	Transmission fluid		Change	★											☆			every 600 Hr			G-19
22	Front differential case oil		Change												☆			every 600 Hr			G-29
23	Front axle gear case oil		Change												☆			every 600 Hr			G-29
24	Front axle pivot		Adjust												☆			every 600 Hr			G-29

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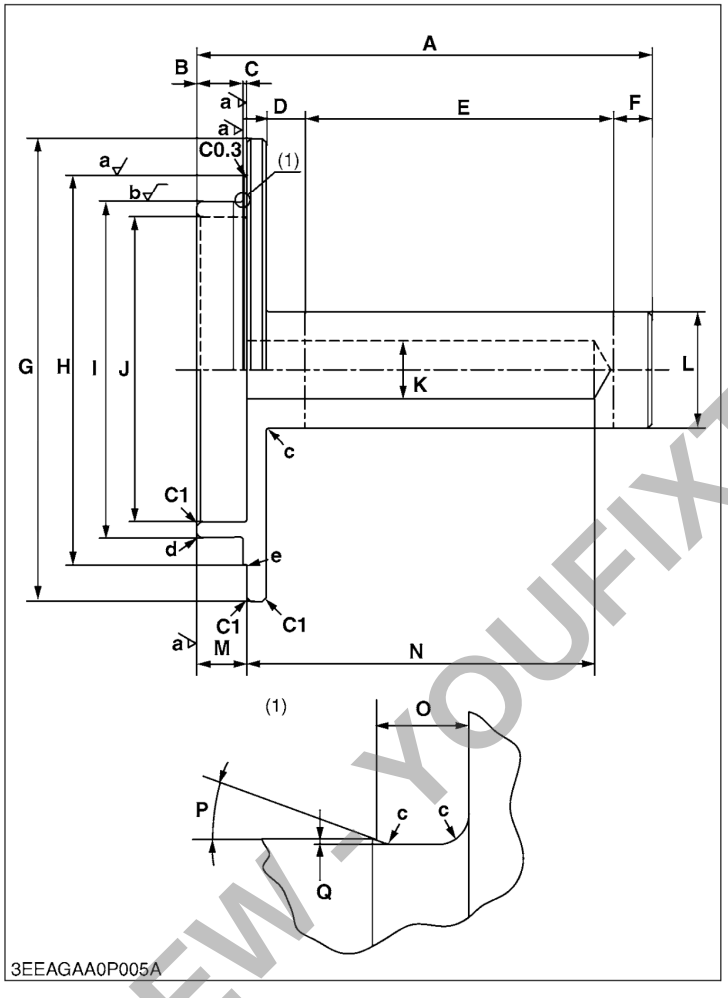
Flywheel Housing Oil Seal Replacing Tool

Application

- Use to press fit the flywheel housing oil seal.

■ **NOTE**

- **This special tool is not provided, so make it referring to the figure.**



A	118 mm (4.6457 in.)
B	12 mm (0.4724 in.)
C	0.9 to 1.0 mm (0.0354 to 0.0394 in.)
D	10 mm (0.3937 in.)
E	80 mm (3.1496 in.)
F	10 mm (0.3937 in.)
G	120 mm dia. (4.7244 in. dia.)
H	100.9 to 101.1 mm dia. (3.9724 to 3.9803 in. dia.)
I	86.966 to 86.988 mm dia. (3.4239 to 3.4247 in. dia.)
J	79 mm dia. (3.1102 in. dia.)
K	15 mm dia. (0.5906 in. dia.)
L	30 mm dia. (1.1811 in. dia.)
M	13 mm (0.5118 in.)
N	90 mm (3.5433 in.)
O	2.5 mm (0.0984 in.)
P	0.349 rad (20 °)
Q	0.15 to 0.25 mm (0.0059 to 0.0098 in.)
a	Ra = 3.2 a
b	Ra = 1.6 a
c	0.8 mm radius (0.0315 in. radius)
d	1.5 mm radius (0.0591 in. radius)
e	0.2 mm radius (0.0079 in. radius)
C0.3	Chamfer 0.3 mm (0.0118 in.)
C1	Chamfer 1.0 mm (0.0394 in.)

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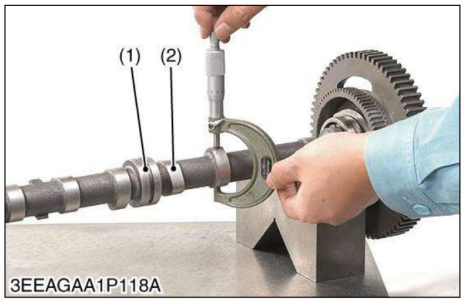
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Symptom	Probable Cause	Solution	Reference Page
High Oil Pressure	Different type oil	Use the specified type of oil	G-10
	Relief valve defective	Replace	1-S43
Engine Overheated	Engine oil insufficient	Replenish	G-10
	Fan belt broken or elongated	Replace or adjust	1-S15
	Coolant insufficient	Replenish	G-10
	Radiator net and radiator fin clogged with dust	Clean	–
	Inside of radiator corroded	Clean or replace	G-30
	Coolant flow route corroded	Clean or replace	–
	Radiator cap defective	Replace	1-S16
	Overload running	Reduce the load	–
	Head gasket defective	Replace	1-S30
	Incorrect injection timing	Adjust	1-S17
	Unsuitable fuel used	Use the specified fuel	G-10

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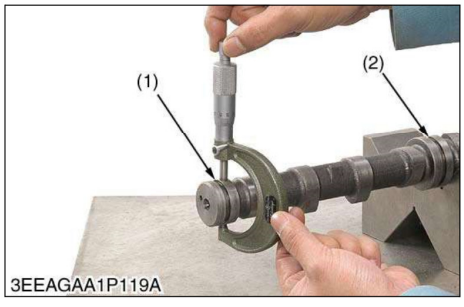
Cam Height

1. Measure the height of the cam at its highest point with an outside micrometer.
2. If the measurement is less than the allowable limit, replace the camshaft.

Intake and exhaust cam height	Factory specification	Intake valve	37.50 mm 1.4764 in.
		Exhaust valve	37.90 mm 1.4921 in.
	Allowable limit	Intake valve	37.00 mm 1.4567 in.
		Exhaust valve	37.40 mm 1.4724 in.

(1) Camshaft (2) Cam

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Oil Clearance of Camshaft Journal

1. Measure the camshaft journal O.D. with an outside micrometer.
2. Measure the cylinder block bore I.D. for camshaft with an inside micrometer.
3. If the clearance exceeds the allowable limit, replace the camshaft.

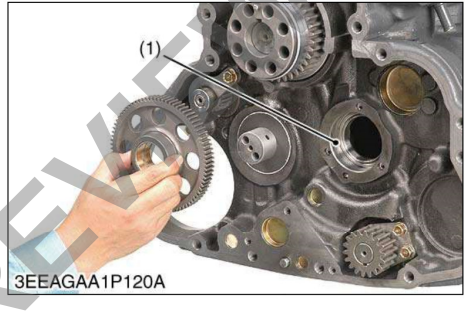
Oil clearance of camshaft journal	Factory specification	0.050 to 0.091 mm 0.0020 to 0.0036 in.
	Allowable limit	0.15 mm 0.0059 in.

Camshaft journal 1 O.D.	Factory specification	34.034 to 34.050 mm 1.3399 to 1.3406 in.
Camshaft block bore 1 I.D.	Factory specification	35.000 to 35.025 mm 1.3780 to 1.3789 in.

Camshaft journal 2 O.D.	Factory specification	43.934 to 43.950 mm 1.7297 to 1.7303 in.
Camshaft block bore 2 I.D.	Factory specification	44.000 to 44.025 mm 1.7323 to 1.7333 in.

(1) Camshaft Journal 1 (2) Camshaft Journal 2

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Replacing Camshaft Cover (If necessary)

1. Remove the used camshaft cover and clean the hole.
2. Install the new camshaft cover (1) until bumping using camshaft cover replacing tool. (Refer to "8. SPECIAL TOOLS" at "G. GENERAL" section.)

(1) Camshaft Cover

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1. TROUBLESHOOTING

Symptom	Probable Cause	Solution	Reference Page
Excessive Transmission Noise	Transmission fluid insufficient	Replenish	G-10
	Improper backlash between bevel pinion shaft and bevel gear	Replace	3-S26
	Improper backlash between differential pinion and side gear	Adjust	3-S29
	Improper backlash between bevel gear and bevel gear (pump rive and driven gear)		3-S24
	Collars or shims have not been installed	Repair	–
	Bearings worn	Replace	–
Gears Slip Out of Mesh	Shifter or shift fork worn or damaged	Replace	3-S22
	Shift fork spring weaken or damaged	Replace	–
	Interlock ball fallen	Reassemble	3-S9, 3-S10
	Synchronizer unit damaged	Repair or replace	3-S12, 3-S13
Hard Shifting	Shifter or shift fork worn or damaged	Replace	3-S22
	Shift fork bent	Replace	3-S9, 3-S10
	Synchronizer unit damaged	Repair or replace	3-S12, 3-S13
Gears Clash When Shifting	Synchronizer unit damaged	Repair or replace	3-S12, 3-S13
	Clutch does not release	Adjust	2-S5
Differential Lock Can Not Be Set	Differential lock shift fork damaged	Replace	3-S18
	Differential lock shift fork mounting spring pin damaged	Replace	3-S18
	Movement of differential lock shifter improperly adjusted	Adjust	3-S18
Differential Lock Pedal Does Not Return	Differential lock cam spring weaken or damaged	Replace	3-S18
	Differential shifter pin damaged	Repair or replace	3-S18

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1. STRUCTURE

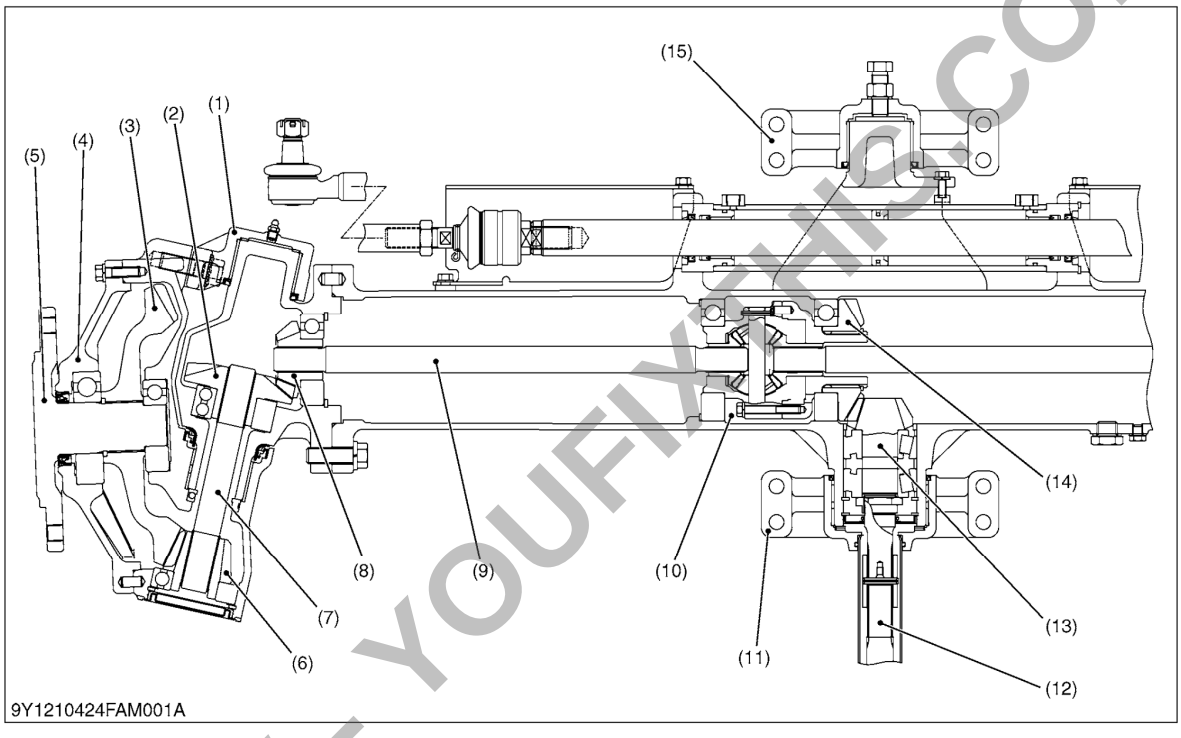
The front axle supports the front of tractor and facilitates steering.
There are two kinds of front axles.
The two-wheel drive axle has free-running front wheels and four-wheel drive axle has powered front wheels.

■ **NOTE**

- **Refer to "6. FRONT AXLE" section in the workshop manual of tractor mechanism (Code No. 9Y021-18200).**

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[1] 4 WHEEL DRIVE



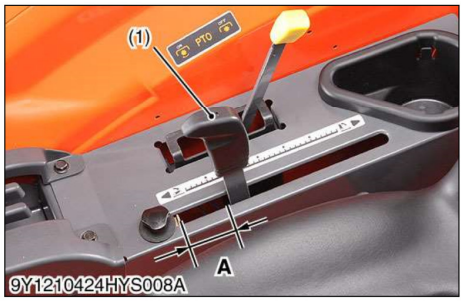
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(1) Front Axle Case Support
(2) 18T Bevel Gear
(3) 51T Bevel Gear
(4) Front Axle Case Cover
(5) Front Axle
(6) 10T Bevel Gear
(7) Bevel Gear Shaft
(8) 10T Bevel Gear
(9) Differential Yoke Shaft
(10) Differential Gear Assembly
(11) Bracket (Rear)
(12) Propeller Shaft
(13) 9T Bevel Pinion Shaft
(14) 21T Bevel Gear
(15) Bracket (Front)

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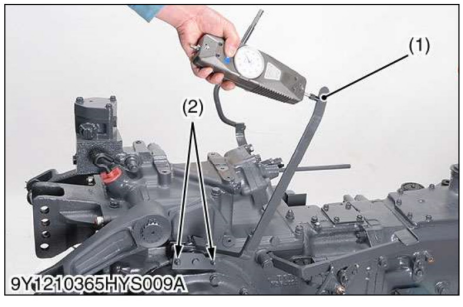
Checking Floating Position

1. Attach the weight of 490 N (50 kgf, 110 lbf) to the end of lower link.
2. Set the position control lever (1) to the lowest position, and set the engine speed at the maximum.
3. Gradually move the position control lever (1) until the lower link begins to rise.
4. Check the distance **"A"**.
5. If the specified play is not obtained, readjust the feedback rod. (Refer to Adjusting of uppermost position section.)

Distance **"A"**	Factory specification	10 to 35 mm 0.40 to 1.3 in.

(1) Position Control Lever **A : Distance**

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Position Control Lever Operating Force

1. Check the position control lever (1) operating force.
2. If the measurement is not within the factory specification, adjust with the tightening nuts (2).

■ **NOTE**

- **Measure the operating force at the down direction.**

Operating force for position control lever	Factory specification	15 to 50 N 1.6 to 2.0 kgf 3.4 to 11 lbf

(1) (2)

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