WSM

WORKSHOP MANUAL
TRACTOR

M95S,M105S

Kubota

KiSC issued 03, 2018 A

PREVIEW YOUFIXTHIS.COM

Download full manual at youfixthis.com

GENERAL

CONTENTS

1. TRACTOR IDENTIFICATION G-1
2. GENERAL PRECAUTIONS G-2
3. HANDLING PRECAUTIONS FOR ELECTRICAL PARTS AND WIRING .. G-3
   [1] WIRING G-3
   [2] BATTERY G-5
   [3] FUSE G-5
   [4] CONNECTOR G-6
   [5] HANDLING OF CIRCUIT TESTER G-7
4. LUBRICANTS, FUEL AND COOLANT G-8
5. TIGHTENING TORQUES G-10
   [1] GENERAL USE SCREWS, BOLT AND NUTS G-10
   [2] STUD BOLTS G-10
   [3] HYDRAULIC FITTINGS G-11
6. MAINTENANCE G-12
7. CHECK AND MAINTENANCE G-14
   [1] DAILY CHECK G-14
   [2] CHECK POINTS OF INITIAL 50 HOURS G-15
   [3] CHECK POINTS OF EVERY 50 HOURS G-18
   [4] CHECK POINTS OF EVERY 100 HOURS G-19
   [5] CHECK POINTS OF EVERY 200 HOURS G-25
   [6] CHECK POINTS OF EVERY 300 HOURS G-29
   [7] CHECK POINTS OF EVERY 400 HOURS G-30
   [8] CHECK POINTS OF EVERY 600 HOURS G-30
   [9] CHECK POINT OF EVERY 800 HOURS G-33
   [10]CHECK POINT OF EVERY 1 YEAR G-33
   [11]CHECK POINTS OF EVERY 2 YEARS G-34
   [12]OTHERS G-38
8. SPECIAL TOOLS G-43
   [1] SPECIAL TOOLS FOR ENGINE G-43
   [2] SPECIAL TOOLS FOR TRACTOR G-61
9. TIRES G-75
   [1] TYPE OF TIRES G-75
   [2] TREAD ADJUSTMENT G-75
      (1) Front Wheel G-75
      (2) Rear Wheel G-77
   [3] WHEEL HUB G-77
   [4] TIRE PRESSURE G-78
   [5] TIRE LIQUID INJECTION G-79
10. IMPLEMENT LIMITATIONS G-83

PREVIEW ONLY FIXTHIS.COM

Download full manual at youfixthis.com

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.

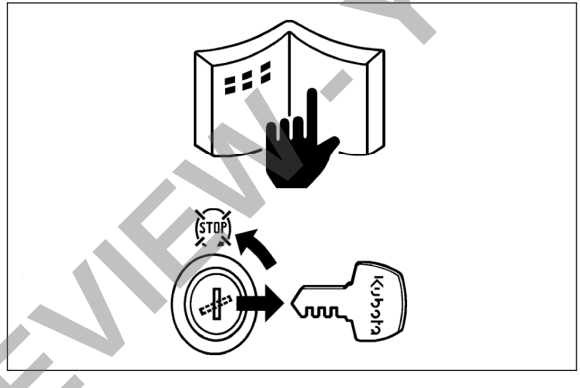
DANGER : **Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.**

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.**



BEFORE SERVICING AND REPAIRING

- 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 firm and level ground, and set the parking brake.
- Lower the implement to the ground.
- Stop the engine, and remove the key.
- Disconnect the battery negative cable.
- Hang a **"DO NOT OPERATE"** tag in operator station.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

SPECIFICATIONS

Model			M95S 4WD	M105S 4WD
Engine	Model		V3800-DI-T	V3800-DI-TI
	Type		Vertical, water-cooled, 4-cycle diesel engine	
	No. of cylinder		4	
	Total displacement		3769 cm^3 (230.0 cu.in.)	
	Bore and stroke		100 × 120 mm (3.9 x 4.7 in.)	
	Net power		70.9 kW (95 HP)* / 2600 min^{-1} (rpm)	78.3 kW (105 HP)* / 2600 min^{-1} (rpm)
	PTO power *1 (factory observed)		62.7 kW (84 HP)*1 / 2600 min^{-1} (rpm)	69.4 kW (93 HP)*1 / 2600 min^{-1} (rpm)
	Maximum torque		314.8 N·m (32.1 kgf·m, 232.2 ft-lbs) / 1400 to 1600 min^{-1} (rpm)	355 N·m (36.2 kgf·m, 261.8 ft-lbs) / 1400 to 1600 min^{-1} (rpm)
	Battery		12 V, RC, 160 min, CCA 900 A	
	Fuel		Diesel fuel No.1 [below −10 °C (14 °F), Diesel fuel No.2-D [above −10 °C (14 °F)]	
	Fuel tank		175 L (46.2 U.S.gals, 38.5 Imp.gals)	
	Engine crankcase		10.7 L (11.3 U.S.qts, 9.4 Imp.qts)	
	Engine coolant		9.1 L (9.6 U.S.qts, 8.0 Imp.qts)	
Dimensions	Overall length		4120 mm (162.2 in.)	
	Overall width (Minimum tread)		2010 mm (79.1 in.)	
	Overall height		2655 mm (104.5 in.)	2680 mm (105.5 in.)
	Wheel base		2435 mm (95.9 in.)	
	Tread	Front	1270 to 1570 mm (50.0 to 61.8 in.)	1390 to 1690 mm (54.7 to 66.5 in.)
		Rear	1480 to 2090 mm (58.3 to 82.3 in.)	
	Minimum ground clearance		410 mm (16.1 in.) (drawbar bracket)	435 mm (17.1 in.) (drawbar bracket)
Weight *2			3920 kg (8642 lbs)	
Traveling system	Standard tire size *3	Front	12.4R24	13.6 - 24
		Rear	16.9R34	18.4R34
	Clutch		Multiple wet disc hydraulic	
	Steering		Full hydraulic power steering	
	Transmission		Hydraulic shuttle shift, fully synchronized main shift, 32F / 32R, If equip creep gear 48F / 48R	
	Brake	Travelling	Wet type multiple discs (hydraulic)	
		Parking	Wet type multiple discs (mechanical)	
	Differential		Bevel gears with differential lock (Front, Rear)	
Hydraulic system	Hydraulic control system		Position, draft and mix control	
	Pump capacity		65.0 L/min. (17.2 U.S.gals./min., 14.3 Imp.gals./min.)	
	Three point hitch		Category II	
	Max. lifting force	At lifting point *4	2700 kg (5952 lbs) at lower link end with link horizontal 4000 kg (8818 lbs) with 2 assist cylinder (option)	
		24 in. behind lifting point *4	2100 kg (4630 lbs) at 610 mm (24 in.) behind lifting point 3400 kg (7490 lbs) with 2 assist cylinder (option)	
	System pressure		19.6 MPa (200 kgf/cm^2, 2847 psi)	
PTO system	Independent clutch		Wet type, multiple discs	
	Live PTO	Direction of turning	Clockwise, viewed from tractor rear	
		PTO speed	540 min^{-1} (rpm) at 2205 engine min^{-1}(rpm) 540 min^{-1} (rpm) at 1519 engine min^{-1}(rpm)	
Traction system			Swing drawbar, adjustable in direction	

NOTE: * Manufacture's estimate.
*1 The company reserves the right to change the specifications without notice.
*2 W/O cast iron disks for rear wheels.
*3 Cast iron disks available for wheels.
*4 At lower link end with links horizontal.

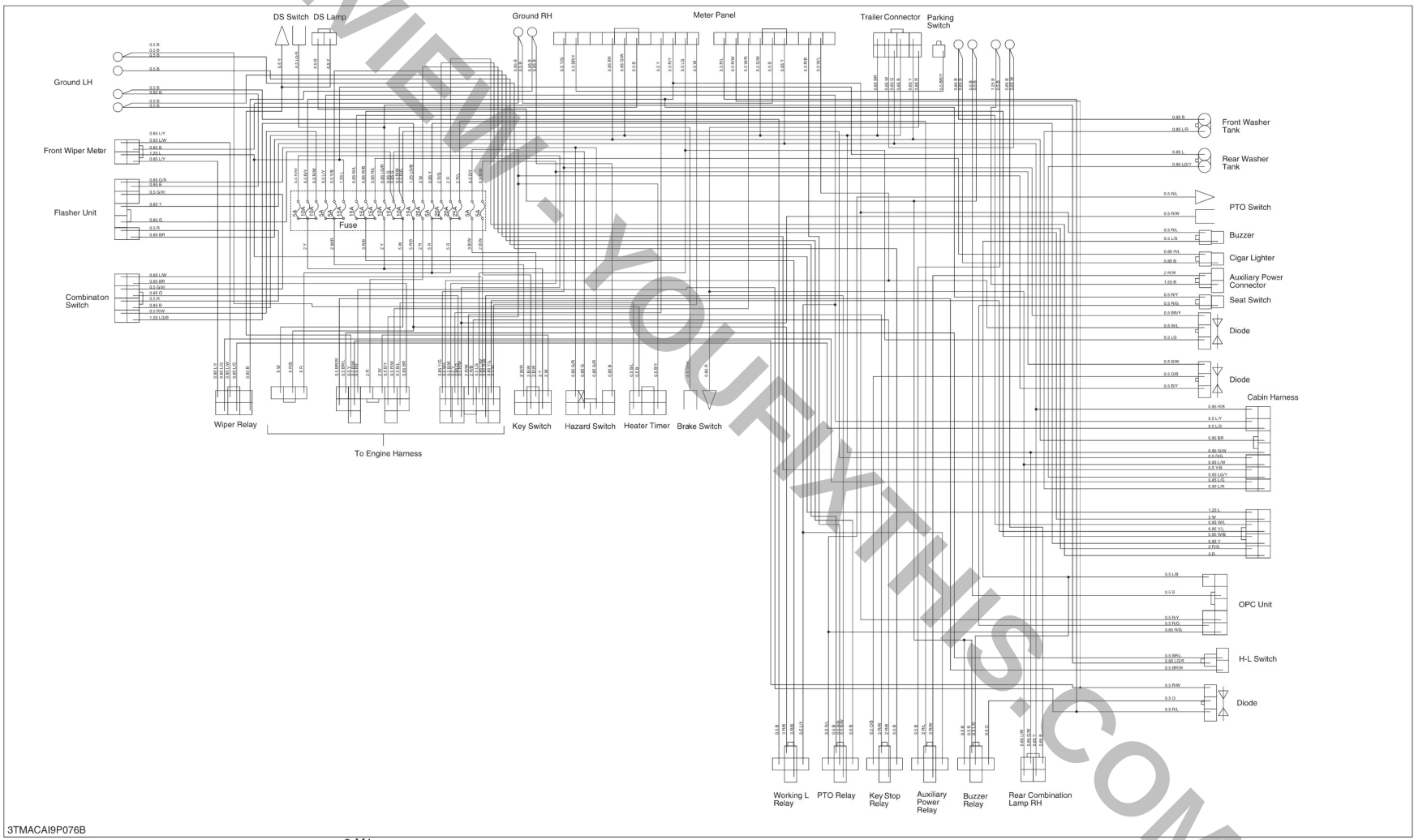
W10297880

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

1. WIRING DIAGRAM

[1] MAIN HARNESS

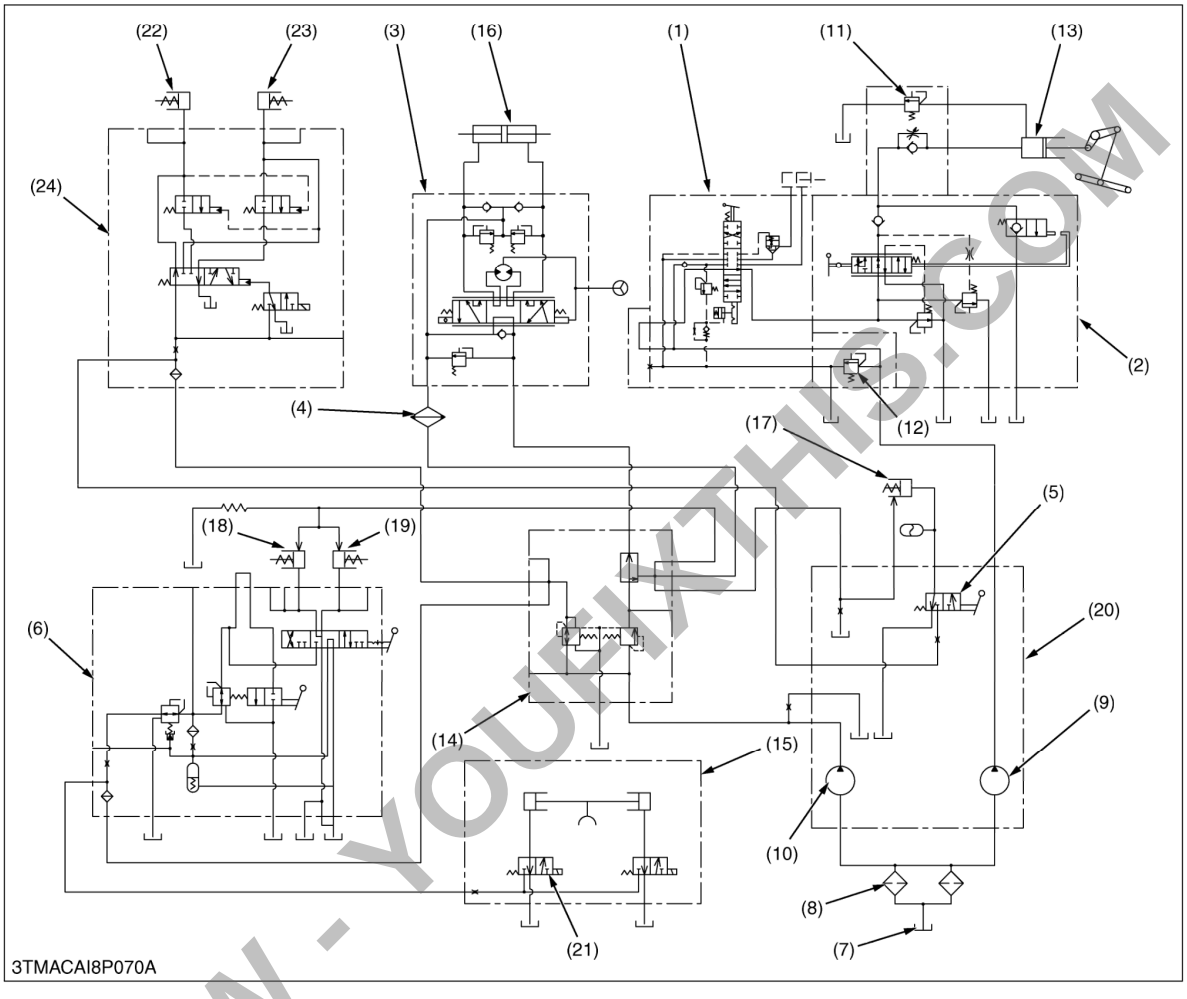


3TMACAI9P076B

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

2. HYDRUALIC CIRCUIT



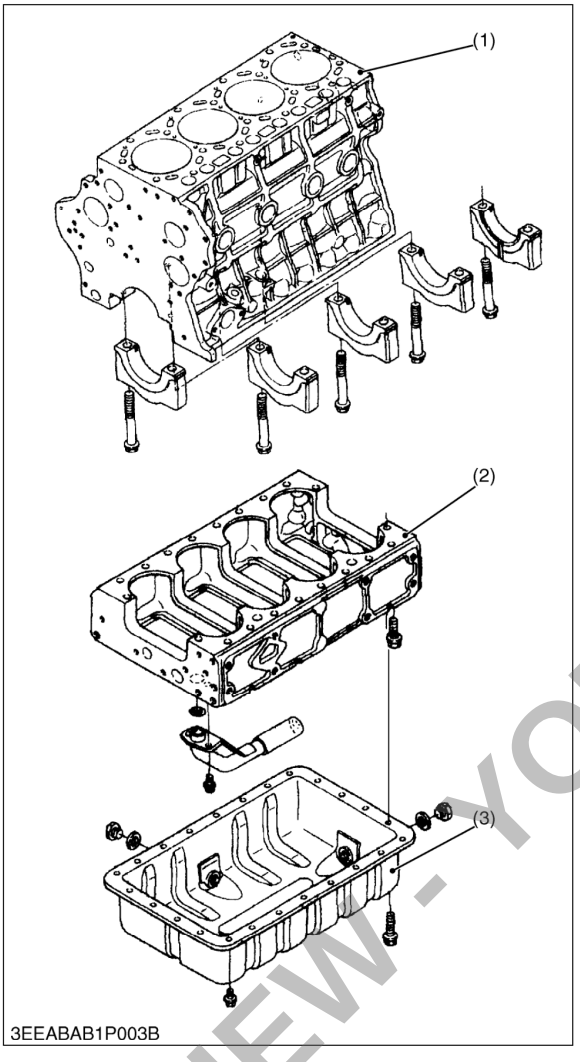
(1) Auxiliary Control Valve
(2) Control Valve for 3P
(3) Power Steering Controller
(4) Oil Cooler
(5) PTO Valve
(6) Shuttle Valve
(7) Oil Tank (Transmission Case)
(8) Hydraulic Oil Filter Cartridge
(9) Hydraulic Pump (for 3P)
(10) Hydraulic Pump (PTO Clutch, Shuttle Clutch, Swing Shift, Dual Speed)
(11) Cylinder Safety Valve
(12) Relief Valve for 3P
(13) Hydraulic Cylinder
(14) Regulator Valve
(15) Swing Shift
(16) Steering Cylinder
(17) PTO Clutch
(18) Shuttle Clutch **R**
(19) Shuttle Clutch **F**
(20) Pump Base
(21) Solenoid Valve
(22) Dual Speed Clutch **HI** (DS Model Only)
(23) Dual Speed Clutch **LO** (DS Model Only)
(24) Dual Speed Valve (DS Model Only)

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

2. ENGINE BODY

[1] CYLINDER BLOCK



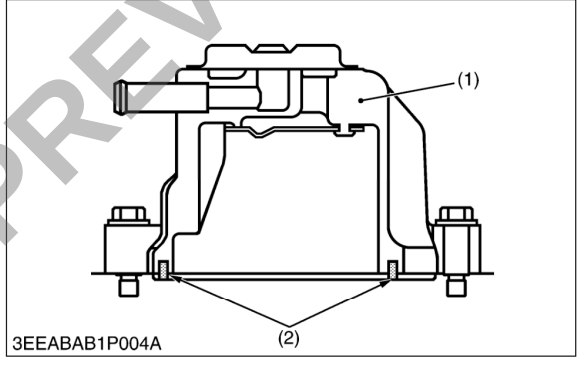
This engine employs separate type crankcases - the crankcase 1 (1) with combustion part and the crankcase 2 (2) which supports the crankcase 1 (1) and reduces noise.

Since it is a hanger type, you can easily assemble / disassemble it. 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

W1012734

[2] HALF-FLOATING HEAD COVER



The rubber packing is fitting in to maintain the head cover 0.5 mm (0.02 in.) or so off the cylinder head. This arrangement helps reduce noise coming from the cylinder head.

(1) Cylinder Head Cover
(2) Cylinder Head Cover

W1012841

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

3. TIGHTENING TORQUES

Tightening torque of screws, bolts and nuts on the table below are especially specified.
(For general screws, bolts and nuts: See page G-10.)

Item	N·m	kgf·m	ft-lbs
Cylinder head cover screw	6.9 to 11.3	0.7 to 1.15	5.1 to 8.32
*Cylinder head screw	98.1 to 107.9	10.0 to 11.0	72.3 to 79.6
*Connecting rod screw	78.5 to 83.4	8.0 to 8.5	57.9 to 61.5
*Flywheel screw	98.1 to 107.9	10.0 to 11.0	72.3 to 79.6
*Crankshaft screw	255.1 to 274.7	26.0 to 28.0	188.1 to 202.5
*Main bearing case screw	137.3 to 147.1	14.0 to 15.0	101.3 to 108.5
Rocker arm bracket screw	49.0 to 55.9	5.0 to 5.7	36.2 to 41.2
Nozzle holder clamp nut	17.7 to 20.6	1.8 to 2.1	13.0 to 15.2
Injection pipe retaining nut	19.6 to 24.5	2.0 to 2.5	14.5 to 18.1
Overflow pipe assembly retaining screw	9.8 to 11.3	1.0 to 1.15	7.23 to 8.32
Oil switch taper screw	14.7 to 19.6	1.5 to 2.0	10.8 to 14.5
Oil cooler joint screw	39.2 to 44.1	4.0 to 4.5	28.9 to 32.5
Oil pump cover screw	7.9 to 9.3	0.80 to 0.95	5.8 to 6.9
Engine and clutch housing mounting screw, nut (standard type)	124 to 147	12.6 to 15.0	91.2 to 108
Engine and clutch housing mounting nut (wide type)	167 to 196	17.0 to 20.0	123 to 144
Engine and clutch housing mounting stud bolt	38.2 to 45.1	3.9 to 4.6	28.2 to 33.3
Starter's terminal **B** mounting nut	9.8 to 11.8	1.0 to 1.2	7.2 to 8.7
Intake air heater terminal nut	3.4 to 5.4	0.35 to 0.55	2.53 to 3.98
Injection pump gear mounting nut	73.6 to 83.4	7.5 to 8.5	54.2 to 61.5
Injection pump unit mounting nut	17.7 to 20.6	1.8 to 2.1	13.0 to 15.2
Gear case cover	23.5 to 27.5	2.4 to 2.8	17.4 to 20.3
Relief valve retaining screw	68.6 to 78.4	7.0 to 8.0	50.6 to 57.9
Idle gear mounting screw	23.5 to 27.5	2.4 to 2.8	17.4 to 20.3
Plate mounting screw	23.5 to 27.5	2.4 to 2.8	17.4 to 20.3
Camshaft set screw	23.5 to 27.5	2.4 to 2.8	17.4 to 20.3
Flywheel housing mounting screw	77.5 to 90.2	7.9 to 9.2	57.1 to 66.5
Crankcase 2 mounting screw	49.0 to 55.9	5.0 to 5.7	36.2 to 41.2
Injection pump mounting screw	23.5 to 27.5	2.4 to 2.8	17.4 to 20.3
Injection pump mounting nut	17.7 to 20.6	1.8 to 2.1	13.0 to 15.2
Governor weight mounting nut	62.8 to 72.6	6.4 to 7.4	46.3 to 53.5
Fuel camshaft stopper mounting screw	7.9 to 9.3	0.80 to 0.95	5.8 to 6.9
Governor housing mounting screw	9.8 to 11.3	1.0 to 1.15	7.23 to 8.32
Anti-rotation nut	2.8 to 4.0	0.29 to 0.41	2.1 to 3.0

■ **NOTE**

- **For "*" marked screws, bolts and nuts on the table, apply engine oil to their threads and seats before tightening.**

W1012736

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

1. TROUBLESHOOTING

Symptom	Probable Cause	Solution	Reference Page
Engine Does Not Start	No fuel	Replenish fuel	G-8
	Air in the fuel system	Vent air	G-38
	Water in the fuel system	Change fuel and repair or replace fuel system	G-8, 26
	Fuel pipe clogged	Clean	G-21
	Fuel filter clogged	Replace	G-30
	Excessively high viscosity of fuel or engine oil at low temperature	Use specified fuel or engine oil	G-8
	Fuel with low cetane number	Use specified fuel	G-8
	Fuel leak due to loose injection pipe retaining nut	Tighten retaining nut	1-S28
	Incorrect injection timing	Adjust	1-S17
	Injection nozzle clogged	Repair or replace	1-S18, 28
	Injection pump malfunctioning	Repair or replace	1-S17, 33 to 38
	Seizure of crankshaft, camshaft, piston, cylinder or bearing	Repair or replace	–
	Compression leak from cylinder	Replace head gasket, tighten cylinder head screw and nozzle holder	1-S28 to 31
	Improper valve timing	Correct or replace timing gear	1-S48
	Piston ring and cylinder worn	Replace	1-S68, 74
	Excessive valve clearance	Adjust	1-S13
	Stop solenoid malfunctioning	Replace	9-S19
(Starter Does Not Run)	Battery discharged	Charge	9-S9
	Starter malfunctioning	Repair or replace	9-S17, 44
	Key switch malfunctioning	Replace	–
	Wiring disconnected	Connect	–

W1014322

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

2. SERVICING SPECIFICATIONS

ENGINE BODY

Item		Factory Specification	Allowable Limit
Cylinder Head Surface	Flatness	–	0.05 mm 0.0020 in.
Top Clearance		0.72 to 0.90 mm 0.0283 to 0.0354 in.	–
Compression Pressure		3.47 MPa / 250 min^{-1} (rpm) 35.4 kgf/cm^2 / 250 min^{-1} (rpm) 503 psi / 250 min^{-1} (rpm)	2.56 MPa / 250 min^{-1} (rpm) 26.1 kgf/cm^2 / 250 min^{-1} (rpm) 371 psi / 250 min^{-1} (rpm)
Variance Among Cylinders		–	10 % or less
Valve Seat Width	Intake	1.6 to 2.0 mm 0.0630 to 0.0790 in.	–
	Exhaust	2.3 to 2.6 mm 0.0906 to 0.1024 in.	–
Valve Seat Angle	Intake	1.047 rad 60°	–
	Exhaust	0.785 rad 45°	–
Valve Face Angle	Intake	1.047 rad 60°	–
	Exhaust	0.785 rad 45°	–
Valve Recessing	Intake	0.6 to 0.8 mm 0.0236 to 0.0315 in.	1.2 mm 0.0472 in.
	Exhaust	0.85 to 1.05 mm 0.0335 to 0.0413 in.	1.2 mm 0.0472 in.
Valve Stem to Valve Guide	Clearance (Intake)	0.055 to 0.085 mm 0.0022 to 0.0033 in.	0.1 mm 0.0039 in.
	Valve Stem O.D. (Intake)	6.960 to 6.975 mm 0.2740 to 0.2746 in.	–
	Valve Guide I.D. (Intake)	7.030 to 7.045 mm 0.2768 to 0.2774 in.	–
	Clearance (Exhaust)	0.055 to 0.085 mm 0.0022 to 0.0033 in.	0.1 mm 0.0039 in.
	Valve Stem O.D. (Exhaust)	6.960 to 6.975 mm 0.2740 to 0.2746 in.	–
	Valve Guide I.D. (Exhaust)	7.030 to 7.045 mm 0.2768 to 0.2774 in.	–
Valve Clearance (Cold)		0.23 to 0.27 mm 0.0091 to 0.0106 in.	–

W1013874

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

6. MAINTENANCE

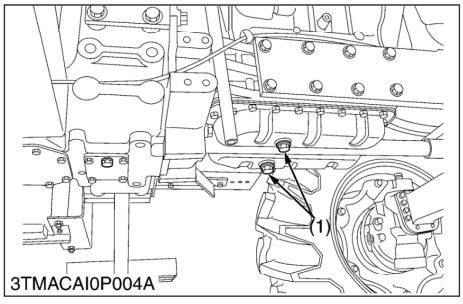
No.	Item		Period	Indication on hour meter												Since then every	Important	Reference page
				50	100	150	200	250	300	350	400	450	500	550	600			
1	Engine start system		Check	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	50 hrs		G-18
2	Wheel bolt torque		Check	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	50 hrs		G-19
3	Battery condition		Check		☆		☆		☆		☆		☆		☆	100 hrs	*4	G-19
4	Greasing				☆		☆		☆		☆		☆		☆	100 hrs		G-24
5	Fan belt		Adjust		☆		☆		☆		☆		☆		☆	100 hrs		G-21
6	Brake pedal		Adjust		☆		☆		☆		☆		☆		☆	100 hrs		G-21
7	Parking brake lever		Adjust		☆		☆		☆		☆		☆		☆	100 hrs		G-23
8	Air cleaner element [Double type]	Primary element	Clean		☆		☆		☆		☆		☆		☆	100 hrs	*1	G-20
			Replace													1 year	*2	G-33
		Secondary element	Replace													1 year		G-33
9	Fuel line		Check		☆		☆		☆		☆		☆		☆	100 hrs		G-21
			Replace													2 years		G-36
10	Hydraulic oil filter		Replace	★			☆				☆				☆	200 hrs		G-17
11	Toe-in		Adjust				☆				☆				☆	200 hrs		G-26
12	Fuel tank water		Drain				☆				☆				☆	200 hrs		G-26
13	Power steering oil line		Check				☆				☆				☆	200 hrs		G-25
			Replace													2 years		G-36
14	Radiator hose and clamp		Check				☆				☆				☆	200 hrs		G-25
			Replace													2 years		G-36
15	Engine oil		Check	★					☆						☆	300 hrs		G-15
16	Water separator		Clean								☆					400 hrs		G-30
17	Fuel filter		Replace								☆					400 hrs		G-30
18	Engine oil filter		Replace	★											☆	600 hrs		G-15
19	Transmission fluid		Change	★											☆	600 hrs		G-16
20	Front differential case oil		Change	★											☆	600 hrs		G-17
21	Front axle gear case		Change	★											☆	600 hrs		G-18
22	King-pin pivot		Adjust												☆	600 hrs		G-32
23	Brake oil		Change												☆	600 hrs		G-31
24	Front axle pivot		Adjust												☆	600 hrs		G-31
25	Engine valve clearance		Adjust													800 hrs		1-S13
26	Cooling system		Flush													2 years		G-34
27	Coolant		Change													2 years		G-34
28	Parking brake cable		Replace													2 years		5-S9
29	Brake hose		Replace													2 years		G-37

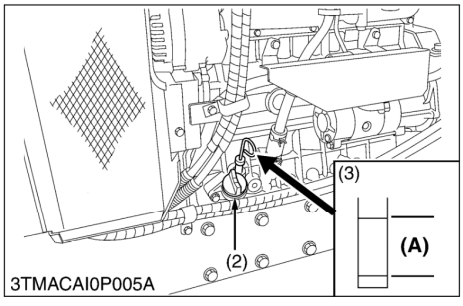
W1035769

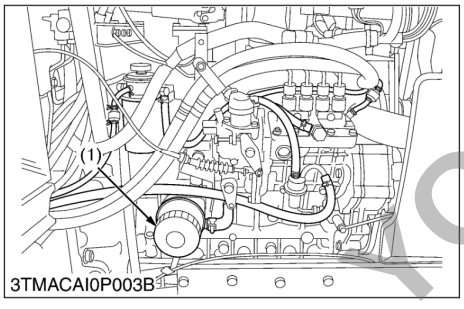
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

[2] CHECK POINTS OF INITIAL 50 HOURS







Changing Engine Oil

CAUTION

- **Before changing oil, be sure to stop the engine.**
- **Allow engine to cool down sufficiently, oil can be hot and can burn.**

1. To drain the used oil, remove the drain plugs (1) at the bottom of the engine and drain the oil completely into the oil pan.
   All the used oil can be drained out easily when the engine is still warm.
2. After draining reinstall the drain plugs (1).
3. Fill with the new oil up to the upper notch on the dipstick.
   Refer to **"LUBRICANTS, FUEL AND COOLANT"**. (See page G-8.)

Engine Oil	Capacity	10.7 L 11.3 U.S.qts 9.4 Imp.qts

(1) Drain Plug
(2) Oil Inlet Plug
(3) Dipstick

(A) Oil level is acceptable within this range.

W1039461

Replacing Engine Oil Filter

CAUTION

- **Be sure to stop the engine before changing oil filter cartridge.**
- **Allow engine to cool down sufficiently, oil can be hot and can burn.**

1. Remove the oil filter (1).
2. Put a film of clean engine oil on rubber seal of new filter.
3. Tighten the filter quickly until it contacts the mounting surface. Tighten filter by hand an additional 1/2 turn only.
4. After the new filter has been replaced, the engine oil normally decreases a little. Make sure that the engine oil does not leak through the seal and be sure to check the oil level on the dipstick. Then, replenish the engine oil up to the prescribed level.

■ IMPORTANT

- **To prevent serious damage to the engine, use only a KUBOTA genuine filter.**

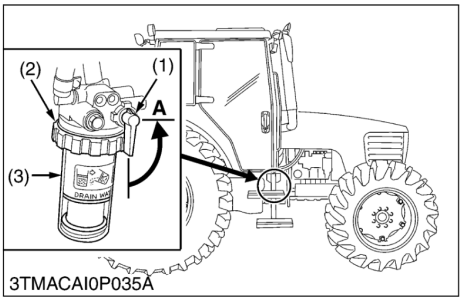
(1) Engine Oil Filter

W1040148

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

[7] CHECK POINTS OF EVERY 400 HOURS



3TMACAI0P035A

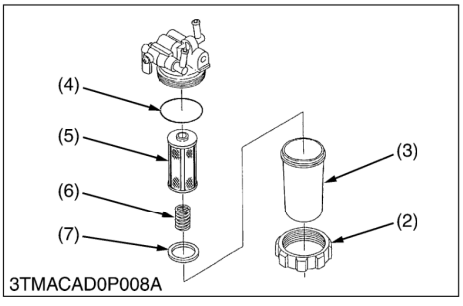
Cleaning Water Separator

1. Close the fuel cock (1).
2. Unscrew the retainer ring (2) and remove the cup (3), and rinse the inside with kerosene.
3. Take out the element and dip it in the kerosene to rinse.
4. After cleaning, reassemble the water separator, keeping out dust and dirt.
5. Bleed the fuel system. (See page G-38.)

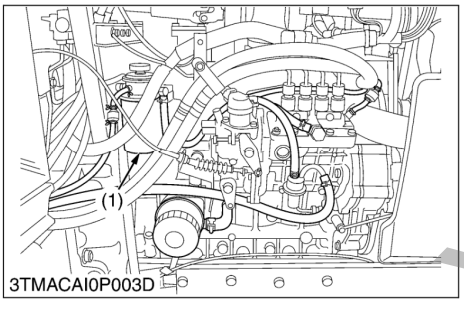
(1) Fuel Cock
(2) Retainer Ring
(3) Cup
(4) O-ring
(5) Element
(6) Spring
(7) Red Float

A: CLOSE

W1049718



3TMACAD0P008A



3TMACAI0P003D

Replacing Fuel Filter

1. Remove the fuel filter (1).
2. Put a film of clean fuel on rubber seal of new filter.
3. Tighten the filter until it contacts the mounting surface. Tighten filter by hand an additional 1/2 turn only.
4. Bleed the fuel system.
   Refer to **"Bleeding Fuel System"**. (See page G-38.)

(1) Fuel Filter

W1050132

[8] CHECK POINTS OF EVERY 600 HOURS

Replacing Engine Oil Filter

1. See page G-15.

W1050294

Changing Transmission Fluid

1. See page G-16.

W1050340

Changing Front Differential Case Oil

1. See page G-17.

W1050385

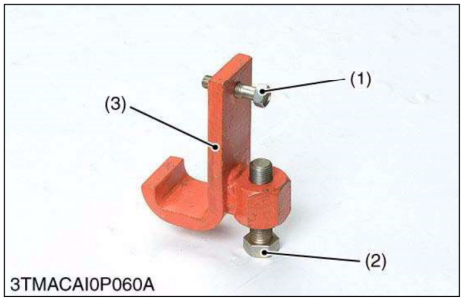
Changing Front Axle Gear Case Oil

1. See page G-18.

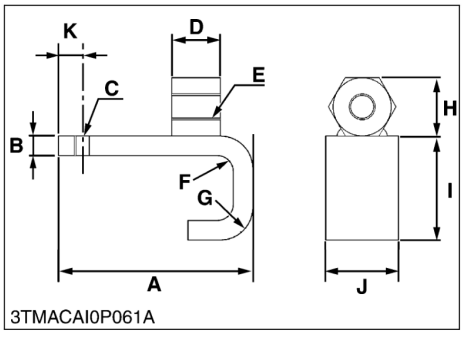
W1050430

PREVIEW - YOUFIXTHIS.COM

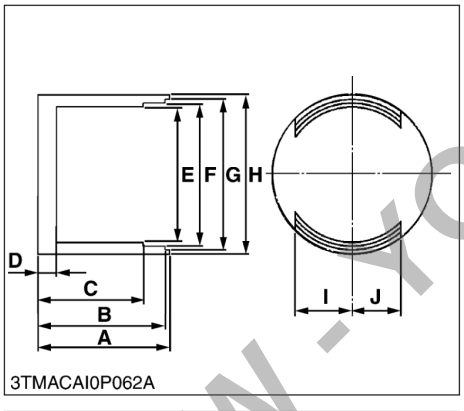
Download full manual at youfixthis.com



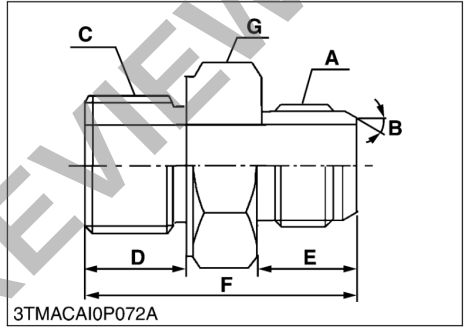
3TMACAI0P060A



3TMACAI0P061A



3TMACAI0P062A



3TMACAI0P072A

Front Axle Rocking Restrictor

A	120 mm (4.72 in.)
B	12 mm (0.72 in.)
C	M10 × P1.25
D	30 mm (1.18 in.)
E	M16 × P1.5
F	10 mm (0.39 in.)
G	20 mm (0.79 in.)
H	36 mm (1.42 in.)
I	64 mm (2.52 in.)
J	45 mm (1.77 in.)
K	20 mm (0.79 in.)

(1) Screw
M10 × P1.25 × L50 mm (2 in.)
(2) Screw
M16 × P1.5 × L50 mm (2 in.)
(3) Rocking Restrictor

W10545380

Hydraulic Clutch Spring Compressor

A	70 mm (2.76 in.)
B	67.5 mm (2.66 in.)
C	56 mm (2.20 in.)
D	10 mm (0.39 in.)
E	72 mm dia. (2.83 in. dia.)
F	76 mm dia. (2.99 in. dia.)
G	80 mm dia. (3.15 in. dia.)
H	85 mm dia. (3.35 in. dia.)
I	30 mm (1.18 in.)
J	26 mm (1.02 in.)

W1071025

Adaptor

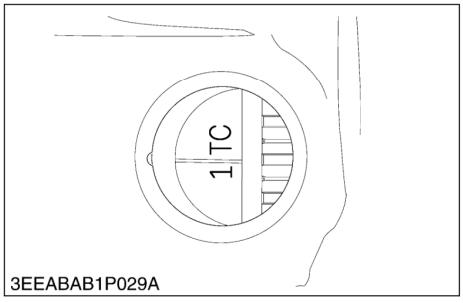
Application: Use for testing the hydraulic pump flow.

A	PF 3/8 (for testing hose)
B	0.52 rad (30°)
C	G 1/2
D	15 mm (0.59 in.)
E	18 mm (0.71 in.)
F	40 mm (1.57 in.)
G	HEX. 27 mm

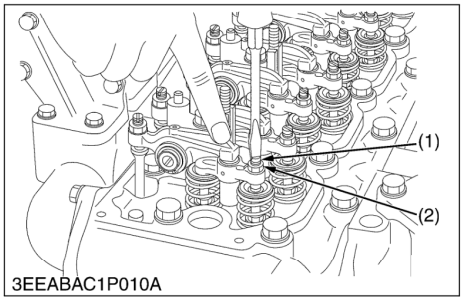
W1071249

PREVIEW - YOUFIXTHIS.COM

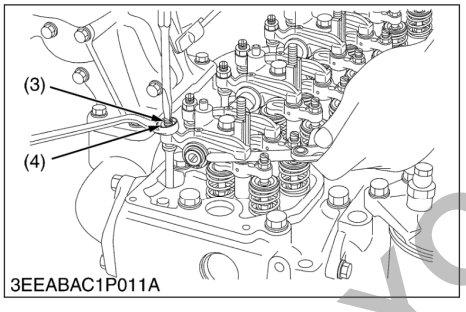
Download full manual at youfixthis.com



3EEABAB1P029A



3EEABAC1P010A



3EEABAC1P011A

Checking Valve Clearance

■ **IMPORTANT**

- **Valve clearance must be checked and adjusted when engine is cold.**

1. Remove the high pressure pipes and the head cover.
2. Align the 1TC mark of flywheel and the convex of flywheel housing timing windows so that the first piston (gear case side) comes to the compression top dead center.
3. Before adjusting the valve clearance, adjust the bridge evenly to the valves stem.
4. Loosen the lock nut (2) and adjust with screw (1).
5. Slightly push the rocker arm by your fingers and screw in the adjusting screw slowly until you feel the screw touch the top of valve stem, then tighten the lock nut.
6. Loosen the lock nut (4) of adjusting screw (3) (push rod side) and insert the thickness gauge between the rocker arm and the bridge head. Set the adjusting screw to the specified value, then tighten the lock nut.

Valve clearance	Factory spec.	0.23 to 0.27 mm 0.0091 to 0.0106 in.

■ **NOTE**

- **After adjusting, tighten the lock nut (4) securely.**

Valve arrangement Adjustment cylinder Location of piston		IN.	EX.
When No.1 piston is compression top dead center	1st	☆	☆
	2nd	☆	
	3rd		☆
	4th		
When No.1 piston is overlap position	1st		
	2nd		☆
	3rd	☆	
	4th	☆	☆

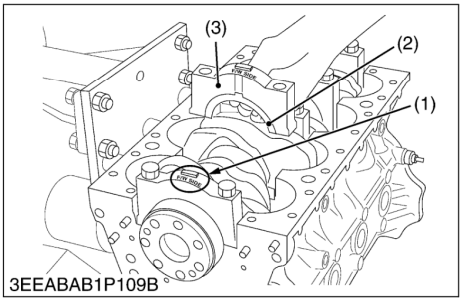
Tightening torque	Cylinder head cover screw	6.9 to 11.3 N·m 0.7 to 1.15 kgf·m 5.1 to 8.32 ft-lbs
	Injection pipe retaining nut	19.6 to 24.5 N·m 2.0 to 2.5 kgf·m 14.5 to 18.1 ft-lbs

(1) Adjusting Screw
(2) Lock Nut
(3) Adjusting Screw
(4) Lock Nut

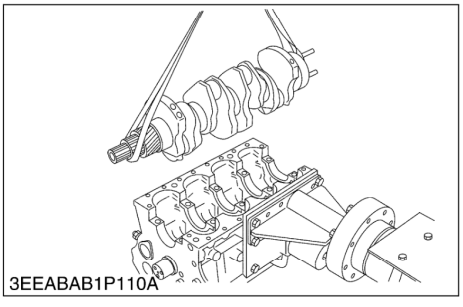
W1025407

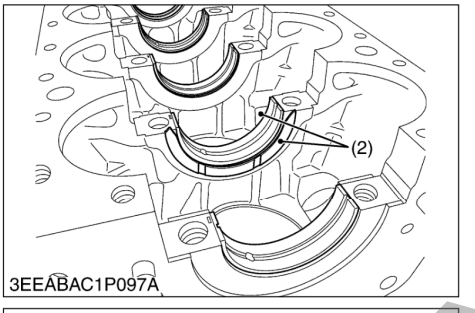
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

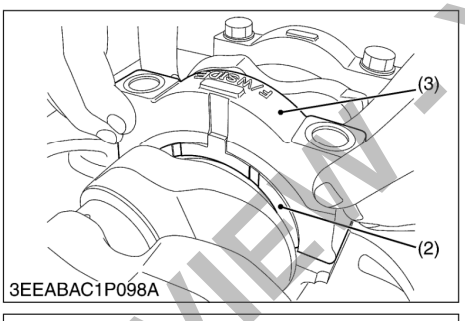


3EEABAB1P109B

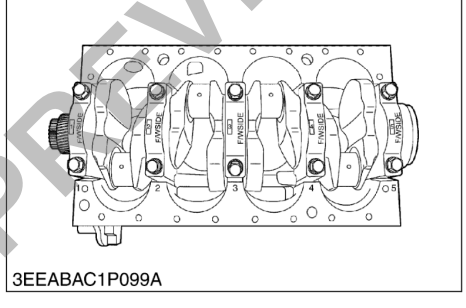

3EEABAB1P110A



3EEABAC1P097A



3EEABAC1P098A


3EEABAC1P099A

Crankshaft

1. Remove the main bearing case.
2. Remove the crankshaft.

(When reassembling)

- Reassemble the main bearing case having the same number as the one engraved on the crankcase, and set the casting mark “F / W SIDE” on the main bearing case facing towards the flywheel side.
- Reassemble the thrust bearing (2), with the oil groove facing outside, into both side of the fourth main bearing case (3).
- Apply oil to the main bearing case screws and tighten them to the specified torque.

Tightening torque	Main bearing case screw	137.3 to 147.1 N·m 14.0 to 15.0 kgf·m 101.3 to 108.5 ft-lbs

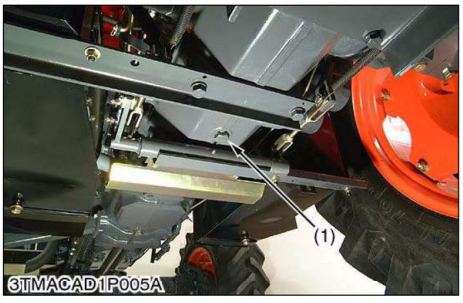
(1) F / W SIDE Mark
(2) Thrust Bearing
(3) 4th Main Bearing Case

W1057882

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

(4) PTO Clutch Pack



Draining Transmission Fluid

1. Place an oil pan underneath the transmission case.
2. Remove the drain plugs (1).
3. Drain the transmission fluid.
4. Reinstall the drain plugs (1).

(When reassembling)

- Fill up from filling port after removing the filling plug until reaching the gauge.
- After running the engine for a few minutes, stop it and check the fluid level again, add the fluid to prescribed level if it is not correct level.

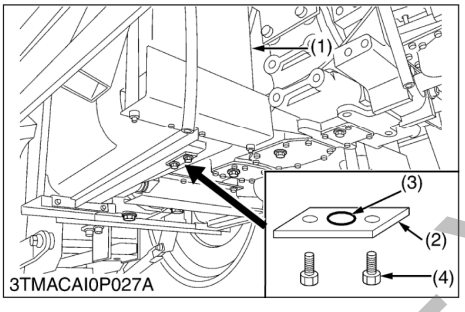
■ **IMPORTANT**

- **Use only KUBOTA SUPER UDT fluid. Use of other fluids may damage the transmission or hydraulic system.**
- **Refer to "LUBRICANTS, FUEL AND COOLANT" (See page G-8.)**
- **Do not mix difference brands oil together.**

Transmission fluid	Capacity	60.0 L 63.4 U.S.qts 52.8 Imp.qts

(1) Drain Plug

W1020481



Draining Fuel

1. Place oil pans under the right side fuel tank.
2. Remove the drain cover (2) at the bottom of side fuel tank (1).
3. Drain the fuel.
4. Reinstall the drain cover (2) on the fuel tank (1).

(When reassembling)

- Be sure to fix the O-ring (3) is in position on the drain cover (2).

Fuel Tank	Capacity	175 L 46.2 U.S.gals 38.5 Imp.gals

(1) Fuel Tank
(2) Drain Cover
(3) O-ring
(4) Screw

W1021162



Separating Cabin from Tractor Body

1. See "10. CABIN" (Page 10-S35).
2. Check the clutch housing case and transmission case are securely mounted on the disassembling stands.
3. Remove the rear wheels.

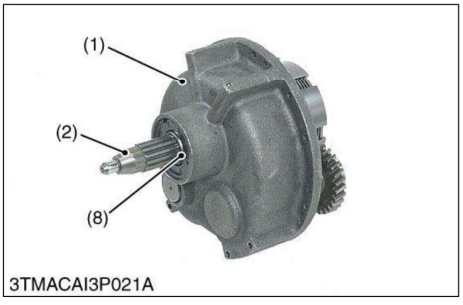
(When reassembling)

Tightening torque	Rear wheel mounting nut	343 to 401 N·m 35 to 41 kgf·m 254 to 294 ft-lbs

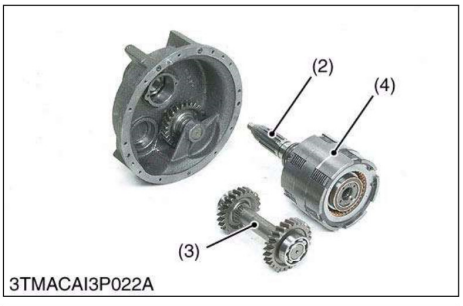
W1021412

PREVIEW - YOUFIXTHIS.COM

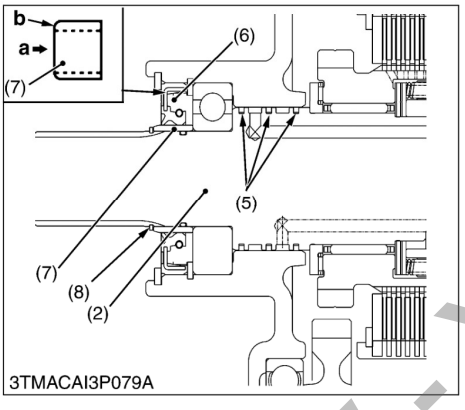
Download full manual at youfixthis.com



3TMACAI3P021A



3TMACAI3P022A



3TMACAI3P079A

Disassembling Shuttle Case Assembly

1. Remove the external circlip (8).
2. Top out the input shaft (2) with shuttle clutch and 26T gear shaft (3) together.

(When reassembling)

- Replace the seal rings (5), oil seal (6), sleeve (7) external circlips (8) with new ones.
- Be sure to install sleeve (7) as shown figure.
- Apply transmission fluid to seal rings (5) and bearings.
- Apply grease to oil seal and sleeve.

■ **NOTE**

- **Do not get in the seal rings (5) between input shaft (2) and shuttle case.**

(1) Shuttle Case Assembly
(2) Input Shaft
(3) 26T Gear Shaft
(4) Shuttle Clutch Assembly
(5) Seal Ring
(6) Oil Seal
(7) Sleeve
(8) External Circlip

a: Front Side
b: Rounded Edge

W1022188

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

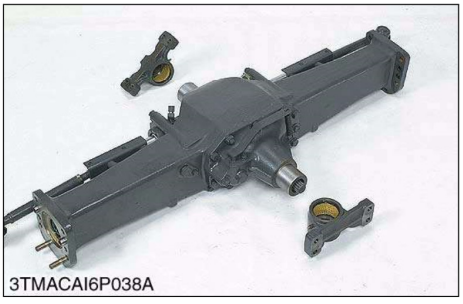
SERVICING

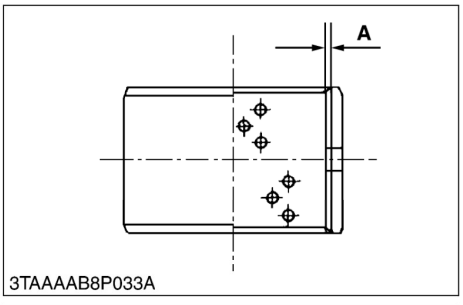
CONTENTS

1. TROUBLESHOOTING 5-S1
2. SERVICING SPECIFICATIONS 5-S2
3. TIGHTENING TORQUES 5-S4
4. CHECKING, DISASSEMBLING AND SERVICING 5-S5
   [1] CHECKING AND ADJUSTING 5-S5
   [2] DISASSEMBLING AND ASSEMBLING 5-S9
      (1) Removing Brake Pedal 5-S9
      (2) Removing Master Cylinder and Equalizer 5-S10
      (3) Removing Brake Case 5-S13
      (4) Removing Parking Brake Case 5-S16
   [3] SERVICING 5-S18

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com


3TMACAI6P038A



3TAAAAB8P033A

Front Bracket and Rear Bracket Bushing

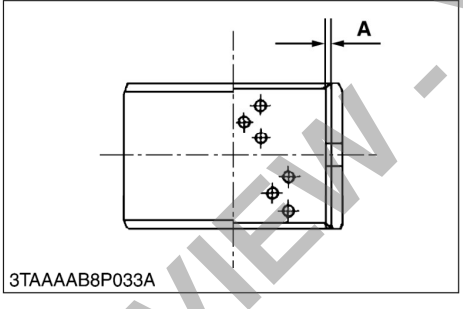
1. Visually inspect the DX bushing for signs of wear or damage. (The DX bushing tends to show concentrated wear.)
2. If the DX bushing is worn beyond the alloy portion (**A**), replace it.

Front bracket and rear bracket bushing	Alloy thickness (**A**)	0.57 mm 0.0224 in.

Pinion bearing case O.D.	Factory spec.	64.970 to 65.000 mm 2.55787 to 2.55906 in.
Front differential case boss I.D.	Factory spec.	64.970 to 65.000 mm 2.55787 to 2.55906 in.

W1022130


3TMACAI6P039A



3TAAAAB8P033A

Bearing Retainer and Front Wheel Case Support Bushing

1. Visually inspect the DX bushing for signs of wear or damage. (The DX bushing tends to show concentrated wear.)
2. If the DX bushing is worn beyond the alloy portion (**A**), replace it.

Front wheel case support bushing	Alloy thickness (**A**)	0.57 mm 0.0224 in.

Bearing retainer O.D.	Factory spec.	64.970 to 65.000 mm 2.55787 to 2.55906 in.

W1022243

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

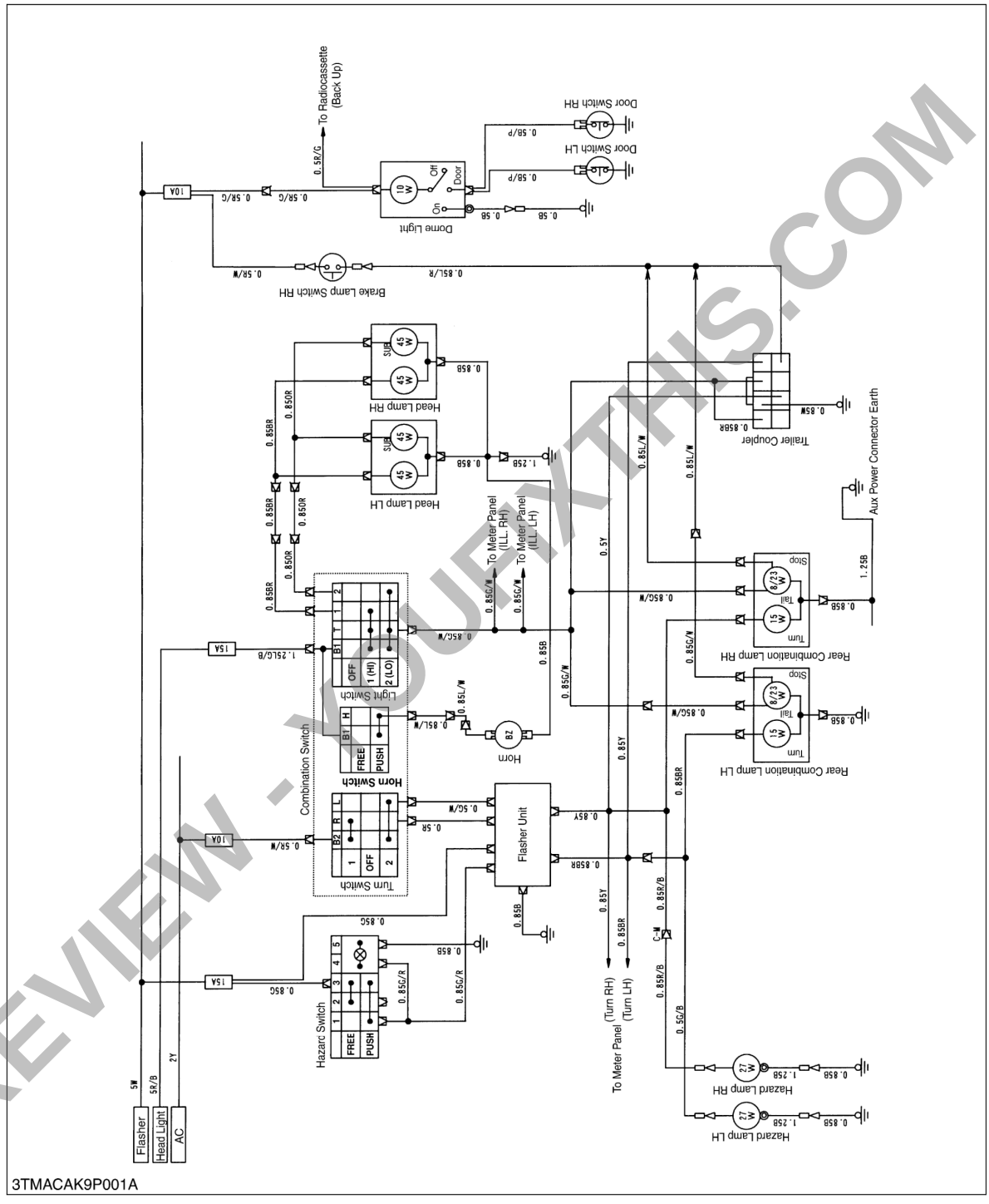
Symptom	Probable Cause	Solution	Reference Page
Draft Control Malfunctioning	Draft control linkage improperly adjusted	Adjust	8-S18
	Torsion bar weak or broken	Replace	8-S21

W1010986

PREVIEW - YOUFIXTHIS.COM

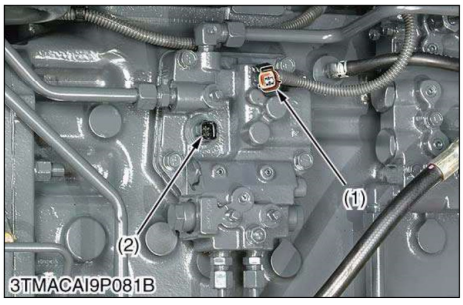
Download full manual at youfixthis.com

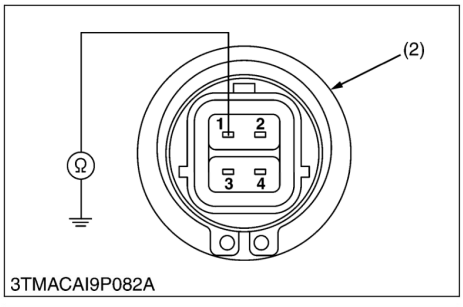
[4] LIGHTING SYSTEM

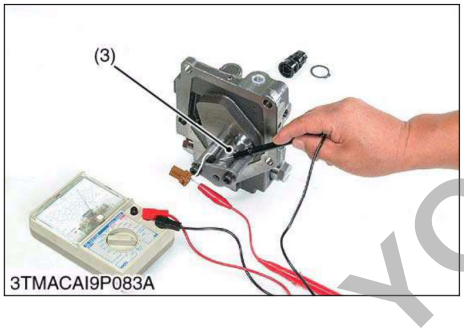


PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com







Dual Speed Solenoid Valve

1. Disconnect the wire harness connector (1).
2. Measure the resistance with an ohmmeter across the **1** terminal on the connector (2) and chassis.
3. If infinity is indicated, the solenoid valve is faulty.

Resistance	Solenoid valve **1** terminal to chassis	10 to 12 Ω

(1) Wire Harness Connector
(2) Connector
(3) Solenoid Valve

W1030117

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

WINDSHIELD WIPER

Symptom	Probable Cause	Solution	Reference Page
Windshield Wiper Does Not Operate	Wiring defective	Check and repair	–
	Fuse blown (Short-circuit, burnt component inside motor or other part for operation)	Correct cause and replace	G-41
	Wiper motor defective (Broken armature, worn motor brush or seized motor shaft)	Replace	10-S50
	Wiper switch defective	Replace	10-S33
	Foreign material interrupts movement of link mechanism	Repair	–
	Wiper arm seized or rusted	Lubricate or replace	10-S50
	Wiper motor relay defective	Replace	10-S34
Windshield Wiper Operating Speed Is Too Low	Wiper motor defective (Short-circuit of motor armature, worn motor brush or seized motor shaft)	Replace	10-S50
	Low battery voltage	Recharge or replace	9-S9
	Humming occurs on motor in arm operating cycle due to seized arm shaft	Lubricate or replace	–
	Wiper switch contact improper	Replace	10-S32
	Wiper motor relay defective	Replace	10-S34
Windshield Wiper Does Not Stop Correctly	Wiper motor defective (Contaminated auto-return contacts or improper contact due to foreign matter)	Replace	10-S50

W1010876

WASHER MOTOR

Washer Motor Does Not Operate	Fuse blown	Correct cause and replace	G-41
	Washer switch defective	Replace	10-S32
	Washer motor defective	Replace	–
	Wiring defective	Repair	–
Washer Motor Operates but Washer Fluid Is Not Ejected	No washer fluid	Replenish	–
	Clogged washer nozzle	Clean or replace	–

W1010953

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 24 of 563 pages

The full manual includes:

- All 563 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Kubota M95S, M105S Shop Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual