WSM

WORKSHOP MANUAL
TRACTOR

L2800,L3400

Kubota

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KiSC issued 08, 2008 A

GENERAL

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⚠ 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.

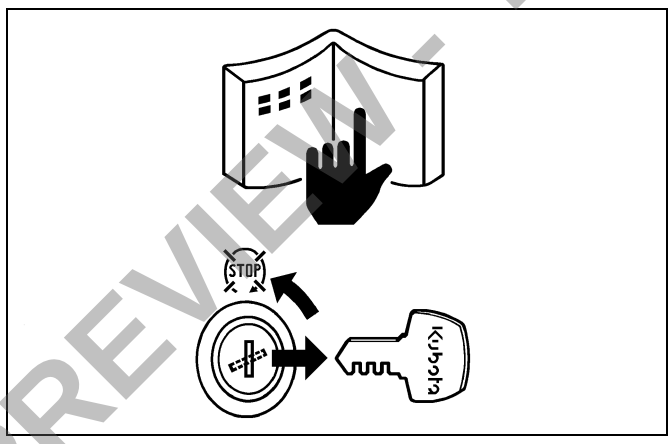
⚠ DANGER : Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠ 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.

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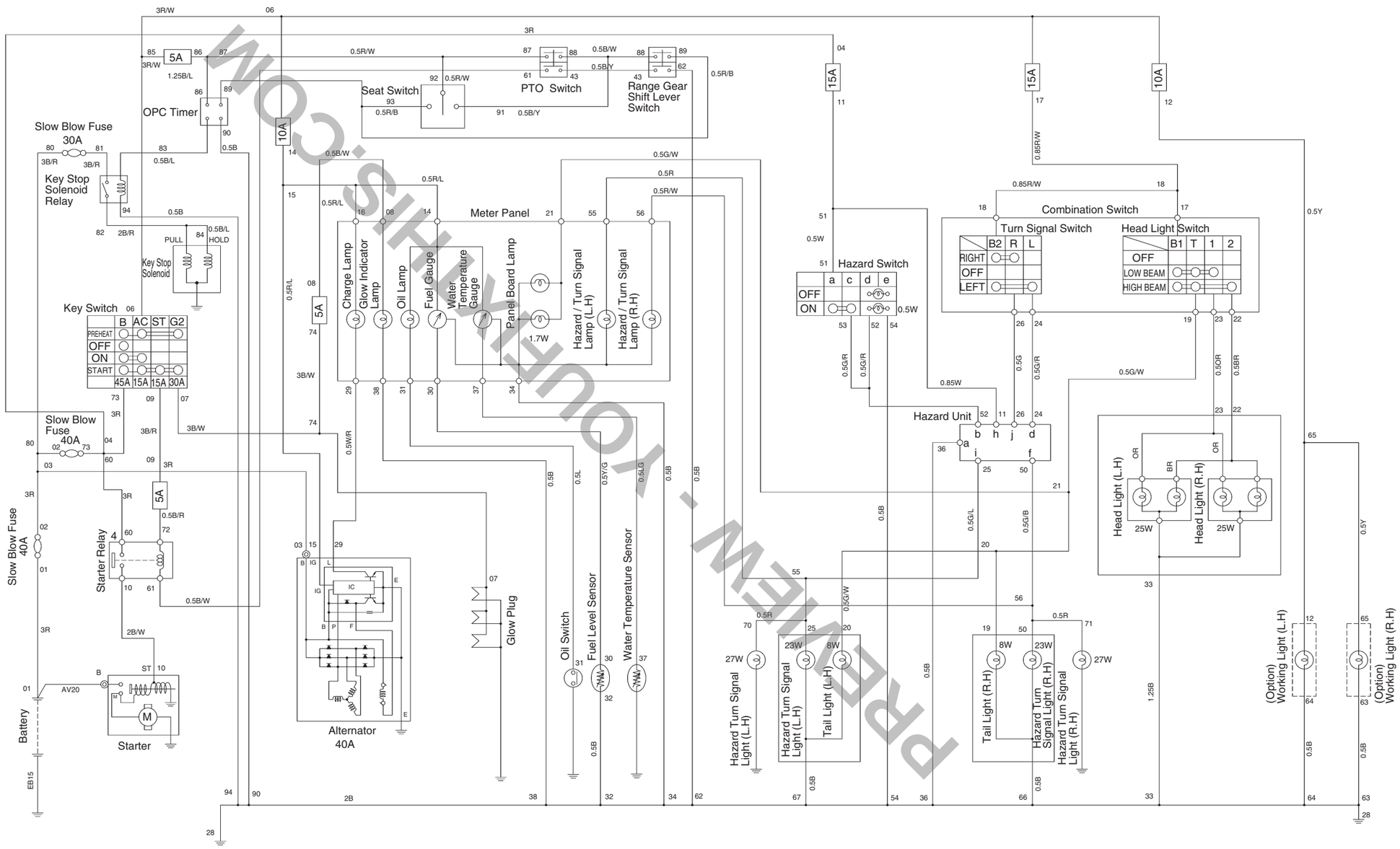
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1. WIRING DIAGRAM

[Manual Transmission Type]

- Color of Wiring

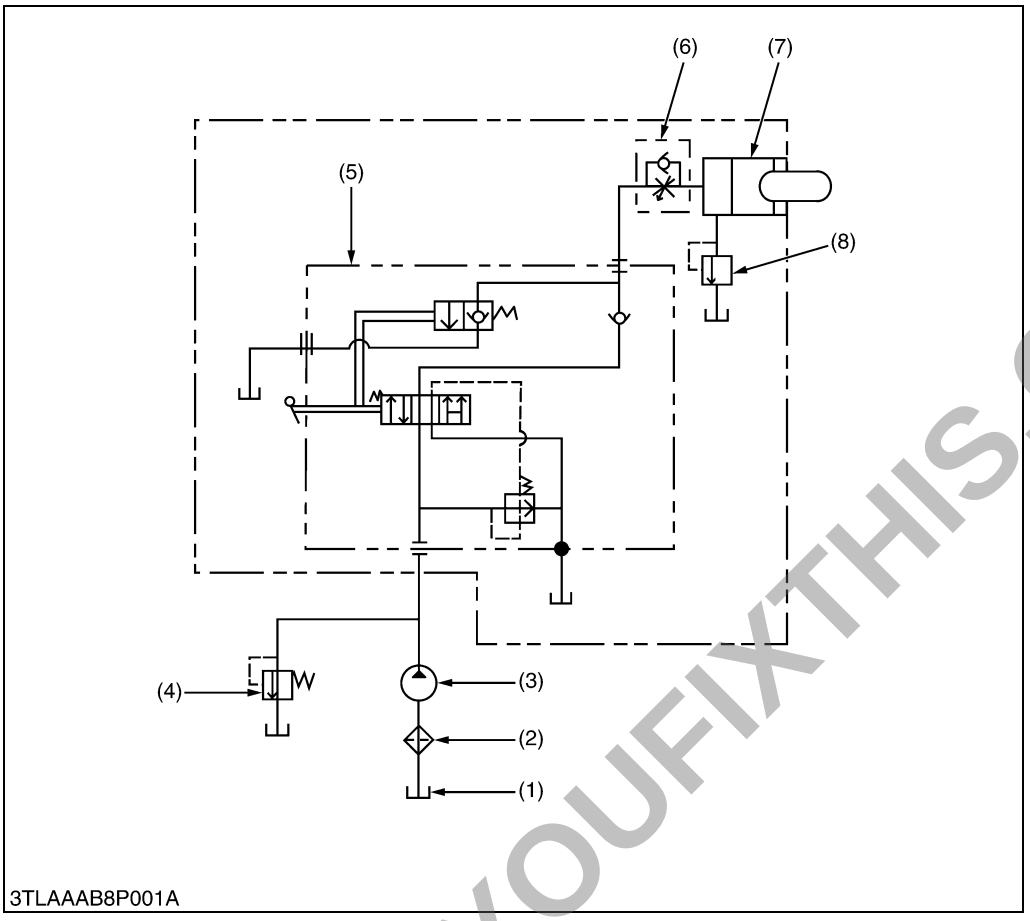
W.....	White
R.....	Red
L.....	Blue
Y.....	Yellow
B.....	Black
G.....	Green
P.....	Pink
Lg.....	Light Green
Br.....	Brown
Or.....	Orange
Sb.....	Sky Blue
WG.....	White / Green
WB.....	White / Black
WR.....	White / Red
WY.....	White / Yellow
WL.....	White / Blue
RW.....	Red / White
RL.....	Red / Blue
RY.....	Red / Yellow
RB.....	Red / Black
RG.....	Red / Green
BW.....	Black / White
BL.....	Black / Blue
BR.....	Black / Red
LY.....	Blue / Yellow
LW.....	Blue / White
LG.....	Blue / Green
LR.....	Blue / Red
LB.....	Blue / Black
LOr.....	Blue / Orange
YG.....	Yellow / Green
YR.....	Yellow / Red
YB.....	Yellow / Black
GR.....	Green / Red
GW.....	Green / White
LgY.....	Light Green / Yellow
LgB.....	Light Green / Black



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1. HYDRAULIC CIRCUIT



(1) Oil Tank (Transmission Case)
(2) Oil Strainer
(3) Hydraulic Pump
(4) Relief Valve
(5) Position Control Valve
(6) Lowering Speed Adjusting Valve
(7) Hydraulic Cylinder
(8) Cylinder Safety Valve

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■ **Hydraulic Oil Flow**

1. When the engine is started, the hydraulic pump (3) is rotated to draw oil from the transmission case (1) through the suction pipe. Supplied oil is filtered by the oil strainer (2).
2. Filtered oil is forced out by the hydraulic pump to the position control valve (5) through the delivery pipe.
3. The position control valve (5) switches the oil flow, and oil is channelled to the hydraulic cylinder (7) for the three-point hydraulic system or returned to the oil tank (transmission case).

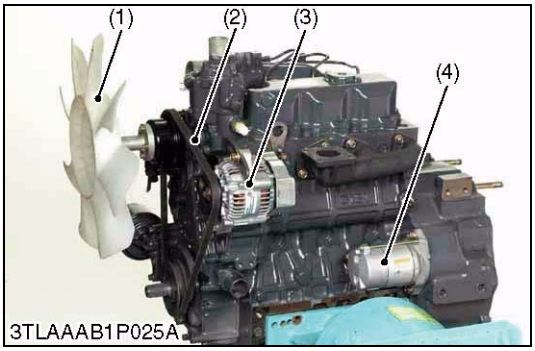
• The hydraulic system has a relief valve (4) which restricts the maximum pressure in the circuit.

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[3] DISASSEMBLING AND ASSEMBLING

(1) Cylinder Head and Valves



External Components

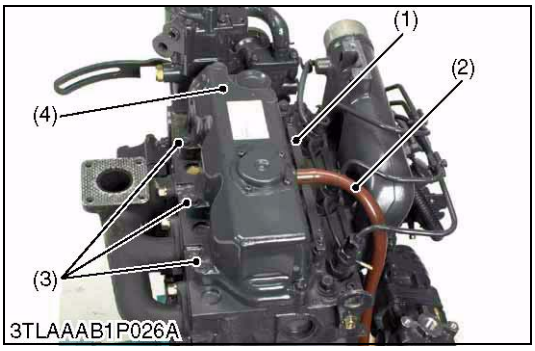
1. Set the engine to the disassembling stand.
2. Remove the cooling fan (1).
3. Remove the alternator (3) and fan belt (2).
4. Remove the starter motor (4).

■ **IMPORTANT**

- **After reassembling the fan belt, be sure to adjust the fan belt tension. (See page 1-S14.)**

(1) Cooling Fan
(2) Fan Belt
(3) Alternator
(4) Starter Motor

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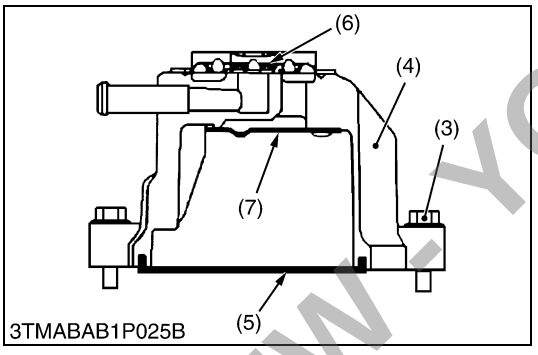
Cylinder Head Cover

1. Remove the lead (1).
2. Remove the breather hose (2).
3. Remove the head cover screws (3).
4. Remove the cylinder head cover (4).

(When reassembling)

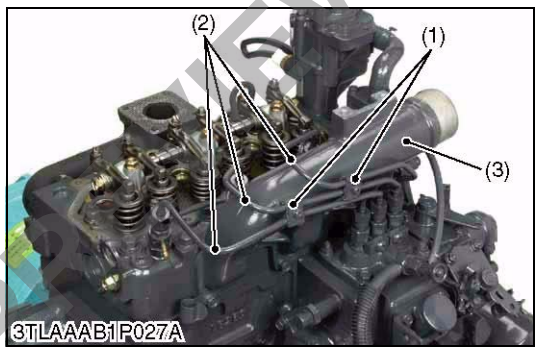
- Check to see if the cylinder head cover gasket is not defective.

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 lbf·ft



(1) Lead
(2) Breather Hose
(3) Head Cover Screw
(4) Cylinder Head Cover
(5) Cylinder Head Cover Gasket
(6) Breather Valve
(7) Plate

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Injection Pipes

1. Loosen the screws on the pipe clamps (1).
2. Detach the injection pipes (2).
3. Remove the inlet manifold (3).

(When reassembling)

- Blow out dust inside the pipes.

Tightening torque	Injection pipe retaining nut	24.5 to 34.3 N·m 2.5 to 3.5 kgf·m 18.1 to 25.3 lbf·ft

(1) Pipe Clamp
(2) Injection Pipe
(3) Inlet Manifold

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3. TIGHTENING TORQUES

Tightening torques of screws, bolts and nuts on the table below are especially specified.
(For general use screws, bolts and nuts : See page G-9.)

Item	Size x Pitch	N·m	kgf·m	lbf·ft
Starter's **B** terminal mounting nut	M8	7.8 to 9.8	0.8 to 1.0	5.8 to 7.2
Steering wheel mounting nut	M12 × 1.25	29.4 to 49.0	3.0 to 5.0	21.7 to 36.2
3P delivery pipe joint bolt	–	49 to 69	5.0 to 7.0	36.1 to 50.6
Power steering delivery pipe joint bolt	–	34 to 39	3.5 to 4.0	25.3 to 28.9
Muffler mounting screw	–	31.4 to 37.2	3.2 to 3.8	23.1 to 27.5
Engine mounting screw	M10 × 1.25	48.1 to 55.8	4.9 to 5.7	35.4 to 41.2
Front axle frame mounting screw to engine	M12 × 1.25	102.9 to 117.6	10.5 to 12.5	76.0 to 86.8
Clutch mounting screw and reamer screw	M8 × 1.25	23.5 to 27.5	2.4 to 2.8	17.4 to 20.3
* Cylinder head bolt	M11 × 1.25	93.1 to 98.0	9.5 to 10.0	68.7 to 72.3
Cylinder head cover cap nut	M8 × 1.25	6.9 to 11.3	0.7 to 1.15	5.1 to 8.32
Injection pipe retaining nut	M12 × 1.5	24.5 to 34.3	2.5 to 3.5	18.1 to 25.3
Nozzle holder assembly	M20 × 1.5	49.0 to 68.6	5.0 to 7.0	36.2 to 50.6
Overflow pipe assembly retaining nut	–	19.6 to 24.5	2.0 to 2.5	14.5 to 18.1
Glow plug	M10 × 1.25	19.6 to 24.5	2.0 to 2.5	14.5 to 18.1
* Rocker arm bracket nut	M8 × 1.25	23.5 to 27.5	2.4 to 2.8	17.4 to 20.3
* Crankshaft nut	M30 × 1.5	137.3 to 156.9	14.0 to 16.0	101.3 to 115.7
* Idle gear shaft screw	M8 × 1.25	23.5 to 27.5	2.4 to 2.8	17.4 to 20.3
* Connecting rod screw	M8 × 1.0	44.1 to 49.0	4.5 to 5.0	32.5 to 36.2
* Flywheel screw	M12 × 1.25	98.0 to 107.8	10.0 to 11.0	72.3 to 79.5
* Main bearing case screw 2	M10 × 1.25	68.6 to 73.5	7.0 to 7.5	50.6 to 54.2
* Main bearing case screw 1	M9 × 1.25	46.1 to 50.9	4.7 to 5.2	34.0 to 37.6
Oil Switch taper screw	PT 1/8	14.7 to 19.6	1.5 to 2.0	10.8 to 14.5
Nozzle holder	–	34.3 to 39.2	3.5 to 4.0	25.3 to 28.9

■ **NOTE**

- **For " * " marked screws, bolts and nuts on the table, apply engine oil to their threads and seats before tightening.**
- **The letter "M" in Size x Pitch means that the screw, bolt or nut dimension stands for metric. The size is the nominal outside diameter in mm of the threads. The pitch is the nominal distance in mm between two threads.**

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1. TROUBLESHOOTING

Symptom	Probable Cause	Solution	Reference Page
Engine Does Not Start	No fuel	Replenish fuel	–
	Air in the fuel system	Bleed	G-38
	Water in the fuel system	Change fuel and repair or replace fuel system	–
	Fuel pipe clogged	Clean	–
	Fuel filter clogged	Change	G-26
	Excessively high viscosity of fuel or engine oil at low temperature	Use specified fuel or engine oil	G-7, 14
	Fuel with low cetane number	Use specified fuel	G-7
	Fuel leak due to loose injection pipe retaining nut	Tighten retaining nut	1-S25
	Incorrect injection timing	Adjust	1-S17
	Fuel camshaft worn	Replace	1-S34
	Injection nozzle clogged	Clean	1-S41
	Injection pump malfunctioning	Replace	1-S30
	Seizure of crankshaft, camshaft, piston, cylinder or bearing	Repair or replace	–
	Compression leak from cylinder	Replace head gasket, tighten cylinder head screw, glow plug and nozzle holder	1-S11, S27 to S29
	Improper valve timing	Correct or replace timing gear	1-S33
	Piston ring and cylinder worn	Replace	1-S36, S37
	Excessive valve clearance	Adjust	1-S12
Starter Does Not Run	Battery discharged	Charge	G-29
	Starter malfunctioning	Repair or replace	G-22, 23, 9-S22
	Main switch malfunctioning	Repair or replace	9-S9
	Safety switches malfunctioning	Adjust or replace	9-S10
	Wiring disconnected	Connect	–
Engine Revolution Is Not Smooth	Fuel filter clogged or dirty	Replace	G-26
	Air cleaner clogged	Clean or replace	G-25
	Fuel leak due to loose injection pipe retaining nut	Tighten retaining nut	1-S25
	Injection pump malfunctioning	Repair or replace	1-S30
	Incorrect nozzle injection pressure	Adjust	1-S18, S41
	Injection nozzle stuck or clogged	Repair or replace	1-S18, S41
	Governor malfunctioning	Repair	1-S34

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SPECIFICATIONS

[Manual Transmission Type]

Model			L2800		L3400	
			2WD	4WD	2WD	4WD
Engine **[E2]**	PTO power		17.9 kW (24.0 HP)		21.6 kW (29.0 HP)	
	Maker		KUBOTA			
	Model		D1403-M-E2A		D1703-MA-E2A	
	Type		Vertical, water-cooled, 4-cycle diesel			
	Number of cylinders		3		3	
	Bore and stroke		80 × 92.4 mm (3.1 × 3.6 in.)		87 × 92.4 mm (3.4 × 3.6 in.)	
	Total displacement		1.393 L (85.0 cu.in.)		1.647 L (101.0 cu.in.)	
	Engine gross power		21.6 kW (29.0 HP)		25.9 kW (34.7 HP)	
	Rated revolution		46.7 rps (2800 min^{-1} (rpm))		45.0 rps (2700 min^{-1} (rpm))	
	Maximum torque		89.2 N·m (65.8 lbf·ft)		108.6 N·m (80.1 lbf·ft)	
	Battery		12 V, RC : 123 min, CCA : 490 A			
Engine **[E3]**	PTO power		18.6 kW (25.0 HP)		22.4 kW (30.0 HP)	
	Maker		KUBOTA			
	Model		D1503-M-E3-LB1		D1803-M-E3-LB2	
	Type		Vertical, water-cooled, 4-cycle diesel			
	Number of cylinders		3		3	
	Bore and stroke		83 × 92.4 mm (3.3 × 3.6 in.)		87 × 102.4 mm (3.4 × 4.0 in.)	
	Total displacement		1.499 L (91.5 cu.in.)		1.826 L (111.4 cu.in.)	
	Engine gross power*		22.4 kW (30.0 HP)		26.6 kW (35.7 HP)	
	Engine net power*		21.3 kW (28.6 HP)		25.5 kW (34.2 HP)	
	Rated revolution		46.7 rps (2800 min^{-1} (rpm))		45.0 rps (2700 min^{-1} (rpm))	
	Maximum torque		94.9 N·m (70.0 lbf·ft)		115.6 N·m (85.3 lbf·ft)	
	Battery		12 V, RC : 123 min, CCA : 490 A			
Capacities	Fuel tank		34.0 L (9.0 U.S.gals)			
	Engine crankcase (with filter)		5.7 L (6.0 U.S.qts)			
	Engine coolant		6.0 L (6.3 U.S.qts)			
	Transmission case		27.0 L (7.1 U.S.gals)	27.5 L (7.3 U.S.gals)	27.0 L (7.1 U.S.gals)	27.5 L (7.3 U.S.gals)
Dimensions	Overall length (without 3P)		2810 mm (110.6 in.)	2705 mm (106.5 in.)	2810 mm (110.6 in.)	2705 mm (106.5 in.)
	Overall width (minimum tread)		1305 mm (51.4 in.)			
	Overall height (with ROPS)		2160 mm (85.0 in.)			
	Overall height (Top of steering wheel)		1475 mm (58.1 in.)			
	Wheel base		1610 mm (63.3 in.)			
	Min.ground clearance		345 mm (13.6 in.)	340 mm (13.4 in.)	345 mm (13.6 in.)	340 mm (13.4 in.)
	Tread	Front	1050 mm (41.3 in.)	1095 mm (43.1 in.)	1050 mm (41.3 in.)	1095 mm (43.1 in.)
		Rear	1290 mm (50.8 in.)			
Weight (with ROPS)			1070 kg (2359 lbs)	1150 kg (2536 lbs)	1090 kg (2403 lbs)	1170 kg (2580 lbs)
Clutch			Dry type single stage		Dry type dual stage	

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6. MAINTENANCE

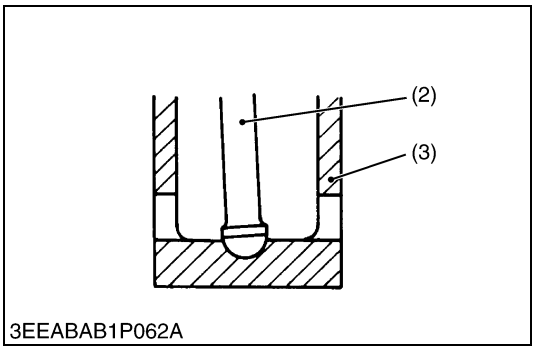
No.	Item \ Period		Indication on hour meter														After since	Reference page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Engine oil	Change	★	☆		☆		☆		☆		☆		☆		☆	every 100 Hr	G-14		
2	Engine oil filter	Replace	★			☆				☆				☆			every 200 Hr	G-14		
3	Hydraulic oil filter	Replace	★			☆				☆				☆			every 200 Hr	G-17		
4	HST oil filter	Replace	★			☆				☆				☆			every 200 Hr	G-18		
5	Transmission fluid	Change	★							☆							every 400 Hr	G-15, 16		
6	Front axle case oil (4WD)	Change	★							☆							every 400 Hr	G-19		
7	Front axle pivot	Adjust												☆			every 600 Hr	G-33		
8	Greasing	–	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50 Hr	G-21		
9	Engine start system	Check	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50 Hr	G-22, 23		
10	Wheel bolt torque	Check	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50 Hr	G-24		
11	Battery condition	Check		☆		☆		☆		☆		☆		☆		☆	every 100 Hr	G-28		*5
12	Air cleaner element	Clean		☆		☆		☆		☆		☆		☆		☆	every 100 Hr	G-25	@	*1
		Replace															every 1 year	G-25		*2
13	Fuel filter element	Clean		☆		☆		☆		☆		☆		☆		☆	every 100 Hr	G-26	@	
		Replace								☆							every 400 Hr	G-26		
14	Fan belt	Adjust		☆		☆		☆		☆		☆		☆		☆	every 100 Hr	G-26		
15	Clutch	Adjust	★	☆		☆		☆		☆		☆		☆		☆	every 100 Hr	G-19, 20		
16	Brake	Adjust		☆		☆		☆		☆		☆		☆		☆	every 100 Hr	G-27		
17	Radiator hose and clamp	Check				☆				☆				☆			every 200 Hr	G-30		
		Replace															every 2 years	G-30		
18	Power steering oil line	Check				☆				☆				☆			every 200 Hr	G-31		
		Replace															every 2 years	G-31		
19	Fuel line	Check		☆		☆		☆		☆		☆		☆		☆	every 100 Hr	G-27	@	
		Replace															every 2 years	G-27		*3
20	HST oil line	Check				☆				☆				☆			every 200 Hr	G-31		
		Replace															every 2 years	G-31		

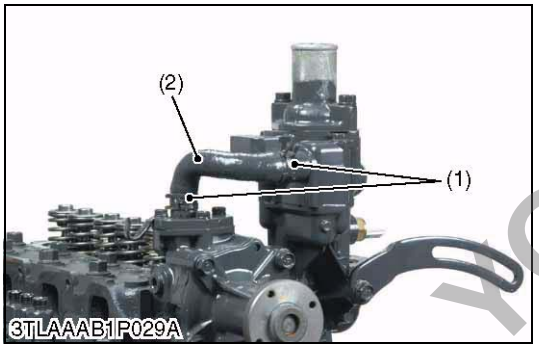
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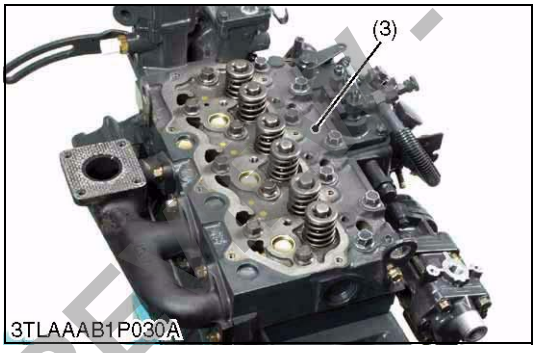
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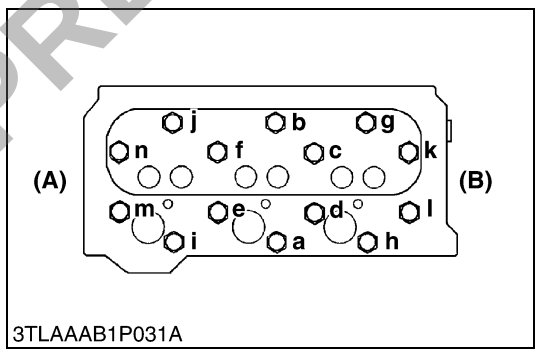
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Rocker Arm and Push Rod

1. Remove the rocker arm bracket nuts.
2. Detach the rocker arm assembly (1).
3. Remove the push rods (2).

(When reassembling)

- When putting the push rods (2) onto the tappets (3), check to see if their ends are properly engaged with the grooves.

■ **IMPORTANT**

- **After installing the rocker arm, be sure to adjust the valve clearance.**

Tightening torque	Rocker arm bracket nut	23.5 to 27.5 N·m 2.4 to 2.8 kgf·m 17.4 to 20.3 lbf·ft

(1) Rocker Arm Assembly
(2) Push Rod
(3) Tappet

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Cylinder Head [E2 Engine]

1. Loosen the pipe clamp (1), and remove the water return pipe (2).
2. Remove the cylinder head screw in the order of (**n**) to (**a**).
3. Lift up the cylinder head (3) to detach.
4. Remove the cylinder head gasket.

(When reassembling)

- Replace the cylinder head gasket with a new one.
- Tighten the cylinder head screws after applying sufficient oil.
- Tighten the cylinder head screws in diagonal sequence starting from the center in the order of (**a**) to (**n**).
- Tighten them uniformly, or the head may deform in the long run.

Tightening torque	Cylinder head screw	93.1 to 98.0 N·m 9.5 to 10.0 kgf·m 68.7 to 72.3 lbf·ft

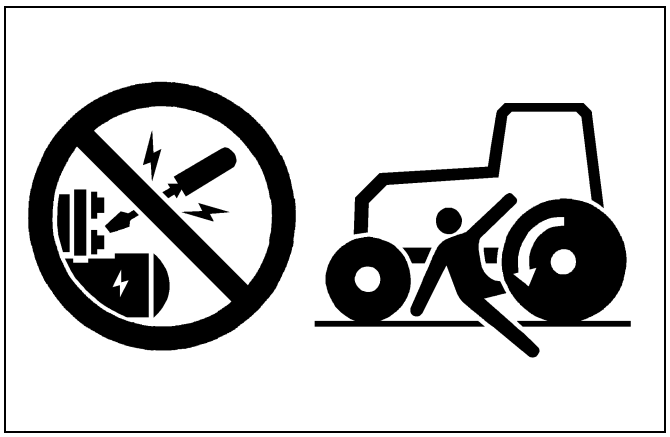
(1) Pipe Clamp
(2) Return Pipe
(3) Cylinder Head

(n) to (a): To Loosen
(a) to (n): To Tighten
(A) Gear Case Side
(B) Flywheel Side

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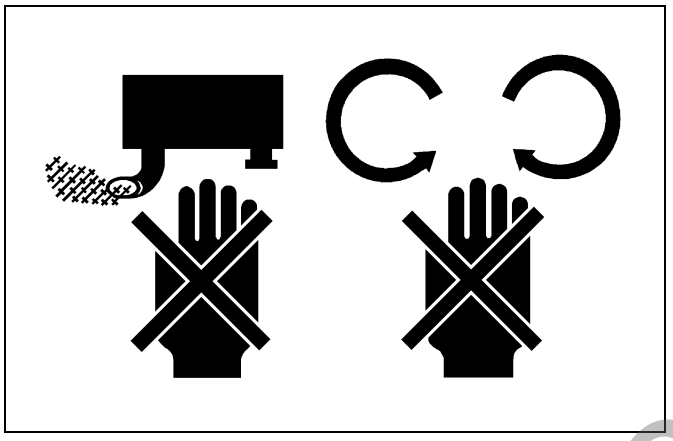
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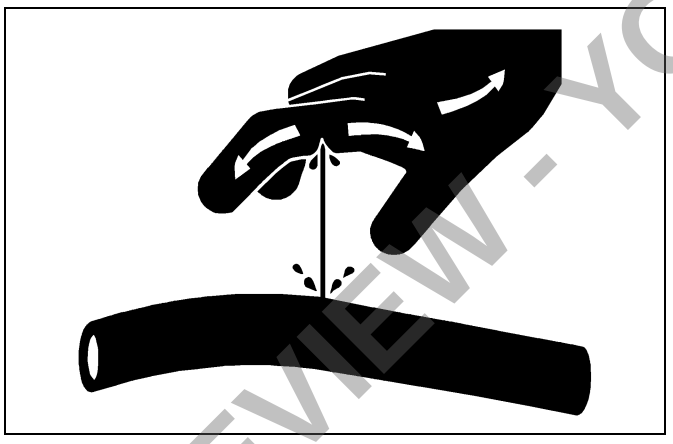
SAFETY STARTING

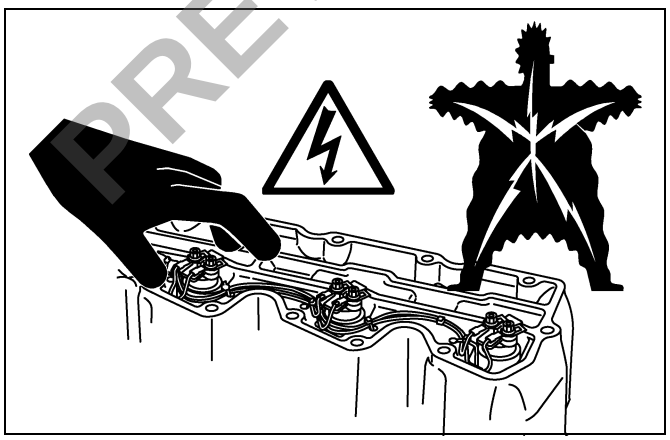
- Do not start the engine by shorting across starter terminals or bypassing the safety start switch.
- Do not alter or remove any part of machine safety system.
- Before starting the engine, make sure that all shift levers are in neutral positions or in disengaged positions.
- Never start the engine while standing on ground. Start the engine only from operator's seat.



SAFETY WORKING

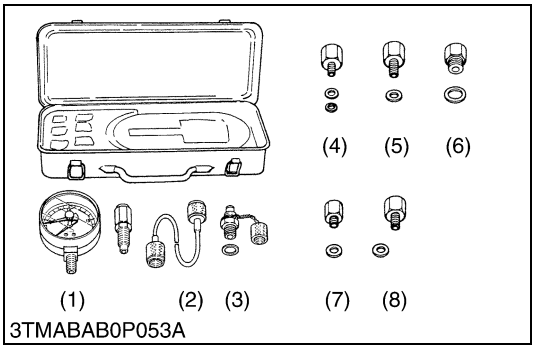
- Do not work on the machine while under the influence of alcohol, medication, or other substances or while fatigued.
- Wear close fitting clothing and safety equipment appropriate to the job.
- Use tools appropriate to the work. Makeshift tools, parts, and procedures are not recommended.
- When servicing is performed together by two or more persons, take care to perform all work safely.
- Do not work under the machine that is supported solely by a jack. Always support the machine by safety stands.
- Do not touch the rotating or hot parts while the engine is running.
- Never remove the radiator cap while the engine is running, or immediately after stopping. Otherwise, hot water will spout out from radiator. Only remove radiator cap when cool enough to touch with bare hands. Slowly loosen the cap to first stop to relieve pressure before removing completely.
- Escaping fluid (fuel or hydraulic oil) under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or fuel lines. Tighten all connections before applying pressure.
- Do not open high-pressure fuel system.
  High-pressure fluid remaining in fuel lines can cause serious injury. Do not disconnect or attempt to repair fuel lines, sensors, or any other components between the high-pressure fuel pump and injectors on engines with high pressure common rail fuel system.
- High voltage exceeding 100 V is generated in the ECU and injector.
  Pay sufficient caution to electric shock when performing work activities.





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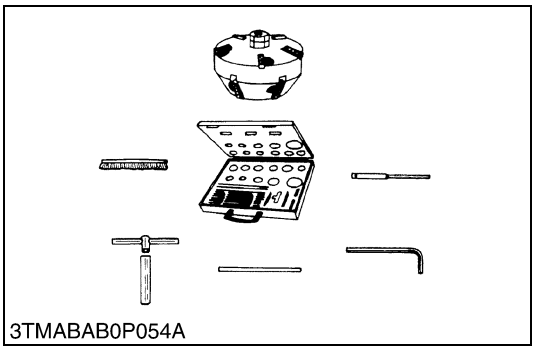
3TMABAB0P053A

Oil Pressure Tester

Code No.: 07916-32032
Application: Use to measure lubricating oil pressure.

(1) Gauge
(2) Cable
(3) Threaded Joint
(4) Adaptor 1
(5) Adaptor 2
(6) Adaptor 3
(7) Adaptor 4
(8) Adaptor 5

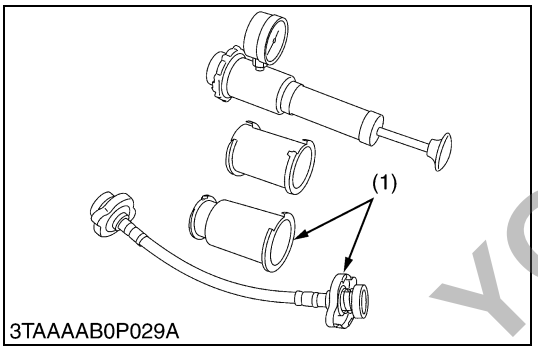
W10243180


3TMABAB0P054A

Valve Seat Cutter

Code No.: 07909-33102
Application: Use to reseat valves.
Angle: 0.785 rad (45°)
0.262 rad (15°)
Diameter: 28.6 mm (1.126 in.) 38.0 mm (1.496 in.)
31.6 mm (1.244 in.) 41.3 mm (1.626 in.)
35.0 mm (1.378 in.) 50.8 mm (2.000 in.)

W10244580

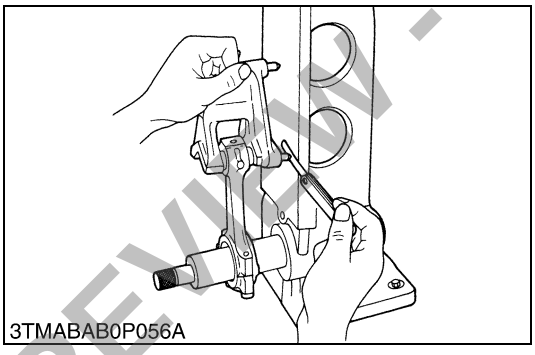


3TAAAAB0P029A

Radiator Tester

Code No.: 07909-31551
Application: Use to check of radiator cap pressure, and leaks from cooling system.
Remarks: Adaptor (1) BANZAI Code No. RCT-2A-30S.

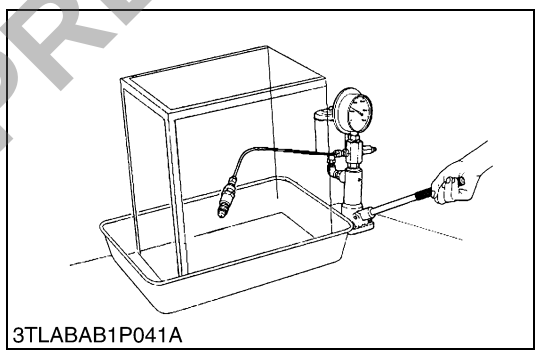
W10519660


3TMABAB0P056A

Connecting Rod Alignment Tool

Code No.: 07909-31661
Application: Use to check the connecting rod alignment.
Applicable: Connecting rod big end I.D.
range 30 to 75 mm (1.18 to 2.95 in.) dia.
Connecting rod length
65 to 300 mm (2.56 to 11.81 in.)

W10245830


3TLABAB1P041A

Nozzle Tester

Code No.: 07909-31361
Application: Use to check the fuel injection pressure and spray pattern of nozzle.
Measuring range: 0 to 50 MPa
(0 to 500 kgf/cm^2, 0 to 7000 psi)

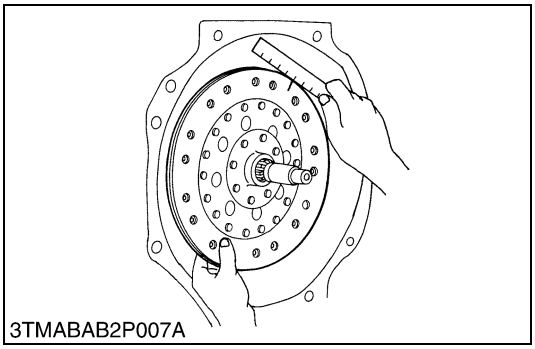
W10246530

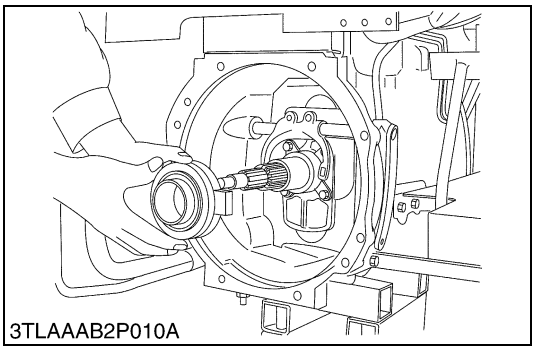
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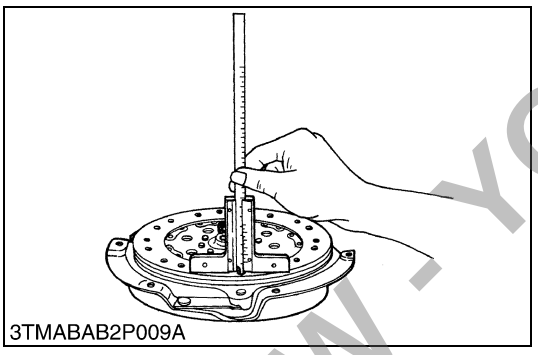
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[4] SERVICING

(1) Single Plate Clutch (L2800)


3TMABAB2P007A


3TLAAAB2P010A


3TMABAB2P009A

Backlash between Clutch Disc Boss and Shaft

1. Mount the clutch disc to the main shaft.
2. Hold the main shaft so that it does not turn.
3. Rotate disc lightly and measure the displacement around the disc edge.
4. If the measurement exceeds the allowable limit, replace the clutch disc.

Backlash (Displacement around disc edge)	Allowable limit	2.0 mm 0.079 in.

W1013772

Release Bearing

1. Check for abnormal wear on contact surface.
2. Rotate bearing outer race, while applying pressure to it.
3. If the bearing rotation is rough or noisy, replace the release bearing.

■ **NOTE**

- **Do not depress bearing outer race, when replacing release bearing.**
- **Do not wash the release bearing with a cleaning solvent.**

W1013883

Clutch Disc Wear

1. Measure the depth from clutch disc surface to the top of rivet at least 10 points with a depth gauge.
2. If the depth is less than the allowable limit, replace the disc.
3. If oil is sticking to clutch disc, or disc surface is carbonized, replace the disc.
   In this case, inspect transmission gear shaft oil seal, engine rear oil seal and other points for oil leakage.

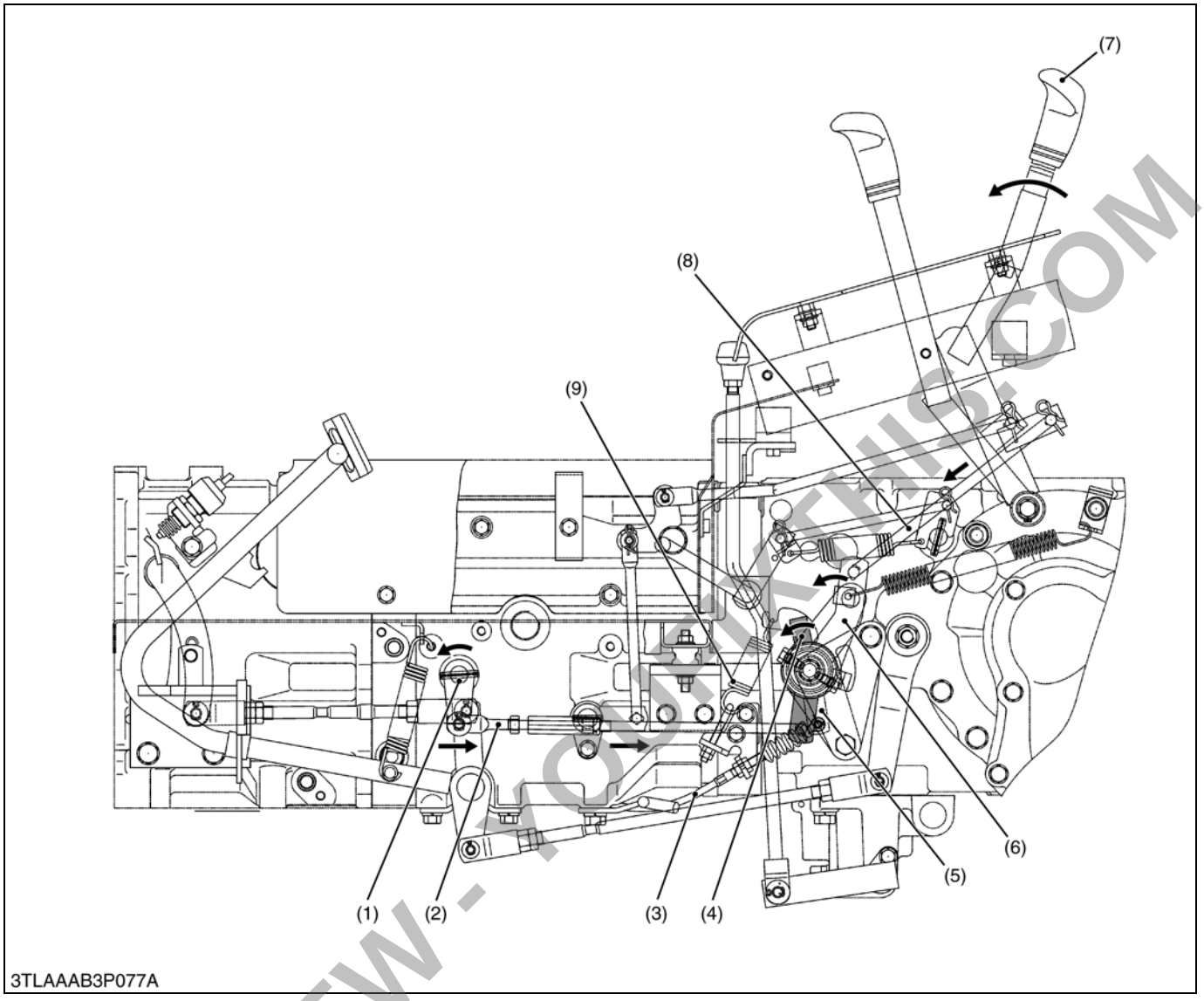
Disc surface to rivet top (Depth)	Allowable limit	0.3 mm 0.012 in.

W1014100

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(2) Cruise Control



(1) Connecting Shaft
(2) Cruise Adjusting Rod
(3) Release Wire
(4) Cruise Lever **1**
(5) Release Lever
(6) Cruise Lever **2**
(7) Cruise Control Lever
(8) Lever Rod
(9) Release Spring

The cruise control lever (7) and HST pedal are linked with the lever rod (8), cruise lever **1** (4), cruise lever **2** (6), cruise adjusting rod (2) and connecting shaft (1).

When the cruise control lever (7) is moved to forward direction, cruise lever **2** (6) is moved to arrow direction by the lever rod (8). The cruise lever **1** (4) is moved forward by being pushed to the cruise lever **2** (6), and cruise adjusting rod (2) is pulled backward. Because cruise adjusting rod (2) and the HST pedal are connected by the connecting shaft (1), the HST pedal is moved and HST becomes forward position.

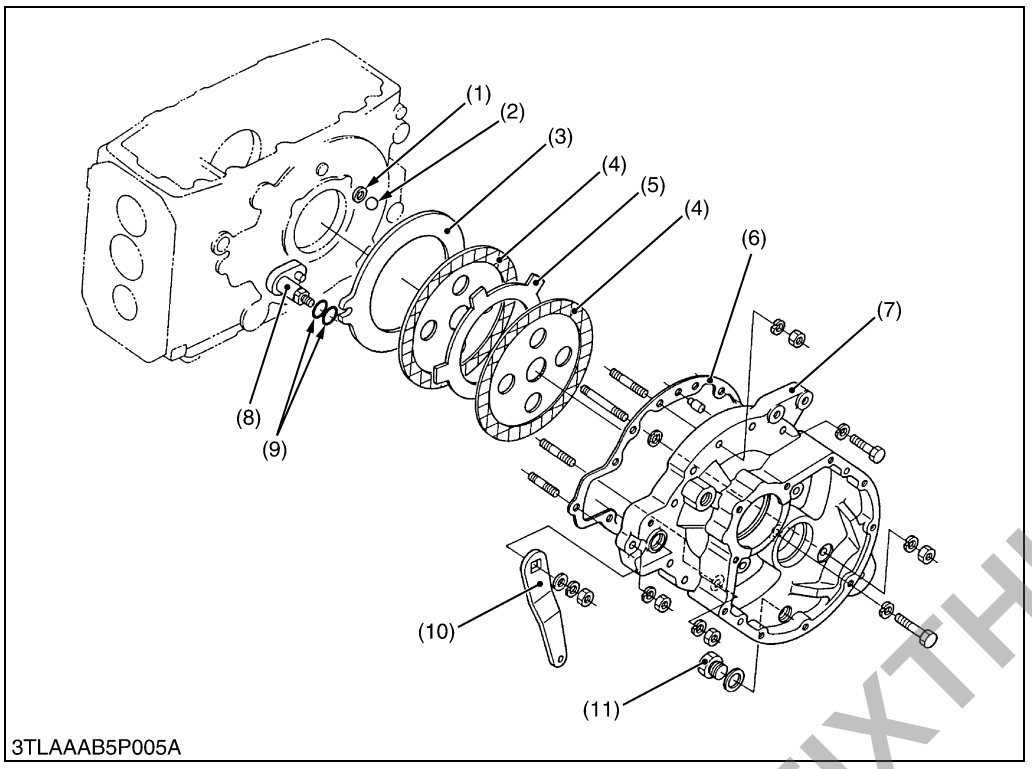
The cruise control can be returned to neutral automatically when brake pedals are depressed.

When brake pedals are depressed, release wire pull the release lever (5) to forward.

As result, the holding force of cruise control lever (7) is lost and the cruise control lever (7) return to neutrality by force of release spring (9).

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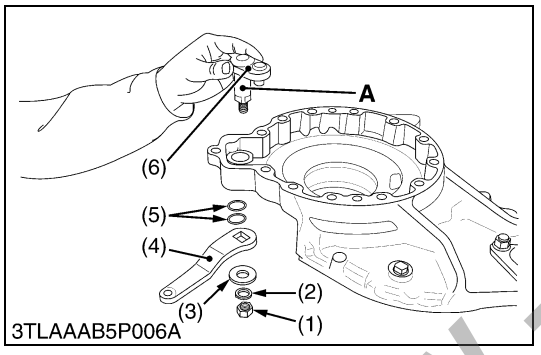
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3TLAAAB5P005A

(1) Ball Seat
(2) Ball
(3) Cam Plate
(4) Brake Disc
(5) Plate
(6) Gasket
(7) Brake Case
(8) Brake Cam
(9) O-ring
(10) Brake Cam Lever
(11) Drain Plug

W1014574



3TLAAAB5P006A

Brake Cam

1. Remove the nut (1) on the brake cam (6).
2. Remove the brake cam (6) and brake cam lever (4).

(When reassembling)

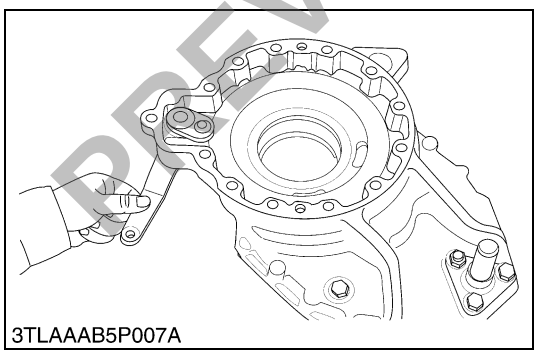
- Apply grease to the O-ring (5) and take care not to damage them.
- Apply small amount of grease to the journal **A** to prevent rust problem that leads to lock up.

Tightening torque	Brake cam mounting nut	62.8 to 72.5 N·m 6.4 to 7.4 kgf·m 46.3 to 53.5 lbf·ft

(1) Nut
(2) Spring Washer
(3) Plain Washer
(4) Brake Cam Lever
(5) O-ring
(6) Brake Cam

W1014753

[4] SERVICING


3TLAAAB5P007A

Brake Cam Lever Movement

1. Move the brake cam lever by hand to check the movement.
2. If the movement is heavy, refine the brake cam with sandpaper.

W1015125

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2. SERVICING SPECIFICATIONS

POWER STEERING HYDRAULIC PUMP

Item		Factory Specification	Allowable Limit
Hydraulic Pump **Condition** • Engine speed : Approx. 2800 min^{-1} (rpm) (L2800) Approx. 2700 min^{-1} (rpm) (L3400) • Rated Pressure : [L2800, L3400] (2WD) 6.9 to 7.9 MPa 70 to 80 kgf/cm^2 995 to 1138 psi [L2800, L3400] (4WD) 10.8 to 11.8 MPa 110 to 120 kgf/cm^2 1564 to 1707 psi • Oil Temperature : 40 to 60 °C 104 to 140 °F	Delivery at No Pressure (L2800)	Above 16.1 L/min. 4.25 U.S.gals./min. 3.54 Imp.gals./min.	–
	Delivery at No Pressure (L3400)	Above 15.6 L/min. 4.12 U.S.gals./min. 3.43 Imp.gals./min.	–
	Delivery at Rated Pressure (L2800)	Above 15.0 L/min. 3.96 U.S.gals./min. 3.30 Imp.gals./min.	13.5 L/min. 3.57 U.S.gals./min. 2.97 Imp.gals./min.
	Delivery at Rated Pressure (L3400)	Above 14.5 L/min. 3.83 U.S.gals./min. 3.19 Imp.gals./min.	13.1 L/min. 3.46 U.S.gals./min. 2.88 Imp.gals./min.
Housing Bore	Depth of Scratch	–	0.09 mm 0.0035 in.
Bushing to Gear Shaft	Clearance	0.020 to 0.081 mm 0.0008 to 0.0032 in.	0.15 mm 0.0059 in.
Gear Shaft	O.D.	14.970 to 14.980 mm 0.5894 to 0.5898 in.	–
Bushing	I.D.	15.000 to 15.051 mm 0.5906 to 0.5926 in.	–
Side Plate	Thickness	2.48 to 2.50 mm 0.0976 to 0.0984 in.	2.40 mm 0.0945 in.

W1013874

RELIEF VALVE (POWER STEERING)

Relief Valve **Condition** • Engine Speed : Maximum • Oil Temperature : 50 to 60 °C 122 to 140 °F	Setting Pressure [2WD]	8.3 to 9.3 MPa 85 to 95 kgf/cm^2 1209 to 1351 psi	–
	Setting Pressure [4WD]	11.1 to 12.1 MPa 113 to 123 kgf/cm^2 1607 to 1749 psi	–

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