WSM

WORKSHOP MANUAL
TRACTOR

B2630HSD,B3030HSD, B3030HSDC

Kubota

KiSC issued 08, 2018 A

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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.

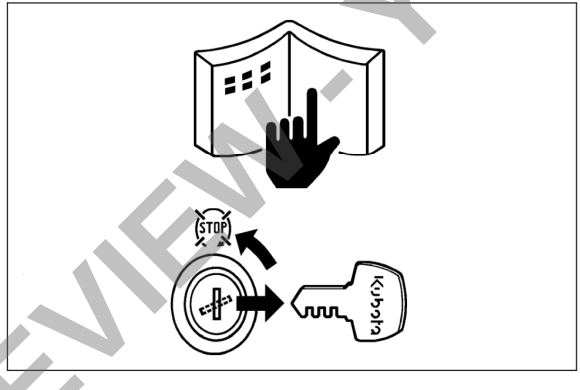
DANGER : **Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.**

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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SPECIFICATIONS

Model			B2630HSD		B3030HSD		B3030HSDC	
PTO power			14.5 kW (19.5 HP)*		17.1 kW (23.0 HP)*		17.1 kW (23.0 HP)*	
Engine	Maker		KUBOTA					
	Model		D1105-E2/E3-D21		V1505-E2/E3-D21		V1505-E2/E3-D21-Q	
	Type		E-TVCS, water-cooled, 4-cycle diesel					
	Number of cylinders		3		4		4	
	Bore and stroke		78 x 78.4 mm (3.1 x 3.1 in.)					
	Total displacement		1123 cm^3 (68.5 cu.in.)		1498 cm^3 (91.5 cu.in.)		1498 cm^3 (91.5 cu.in.)	
	Engine gross power		19.4 kW (26 HP)*		22.3 kW (30.0 HP)*		22.3 kW (30.0 HP)*	
	Rated revolution		2800 min^{-1} (rpm)		2600 min^{-1} (rpm)		2600 min^{-1} (rpm)	
	Maximum torque		77.6 N·m (57.2 lbf·ft)		98.7 N·m (72.7 lbf·ft)		98.7 N·m (72.7 lbf·ft)	
	Battery		12 V, RC : 79 min, CCA : 433 A					
	Starting system		Electric starting with cell starter 12 V, 1.4 kW					
	Lubricating system		Forced lubrication by trochoidal pump					
	Cooling system		Pressurized radiator, forced circulation with water pump					
	Fuel		Diesel fuel No. 2-D [above –10 °C (14 °F)], Diesel fuel No. 1 [below –10 °C (14 °F)]					
Capacities	Fuel tank		31 L (8.1 U.S.gals, 6.8 Imp.gals)					
	Engine crankcase (with filter)		3.0 L (3.2 U.S.qts, 2.6 Imp.qts)		4.1 L (4.3 U.S.qts, 3.6 Imp.qts)		4.1 L (4.3 U.S.qts, 3.6 Imp.qts)	
	Engine coolant		4.5 L (4.7 U.S.qts, 4.0 Imp.qts)				5.2 L (5.5 U.S.qts, 4.6 Imp.qts)	
	Transmission case		15 L (4.0 U.S.gals, 3.3 Imp.qts)					
	Front axle case		4.7 L (5.0 U.S.qts, 4.1 Imp.qts)					
	Tires	Front	Farm: 7 - 12	Turf: 24 x 8.5 - 12	Farm: 7 - 12	Turf: 24 x 8.5 - 12	Farm: 7 - 12	Turf: 24 x 8.5 - 12
		Rear	12.4 - 16	13.6 - 16	12.4 - 16	13.6 - 16	12.4 - 16	13.6 - 16
Dimensions	Overall length (without 3P)		2520 mm (99.2 in.)				2640 mm (103.9 in.)	
	Overall width		1365 mm (53.7 in.)					
	Overall height (with ROPS)		1995 mm (78.5 in.)				2150 mm (84.6 in.)	
	Wheel base		1666 mm (65.6 in.)					
	Minimum ground clearance		370 mm (14.6 in.)					
	Tread	Front	935 mm (36.8 in.)					
		Rear	1050 mm (41.3 in.)					

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6. MAINTENANCE CHECK LIST

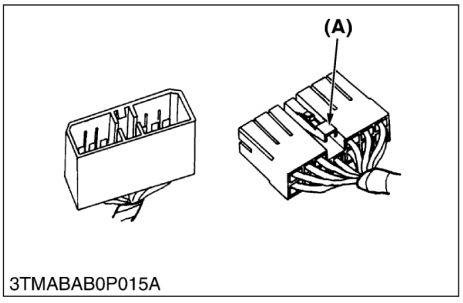
No.	Items	Period	Indication on hour meter													Interval	Reference page		
			Daily	50	100	150	200	250	300	350	400	450	500	550	600	650				
1	Clogging of air conditioner condenser screen ▲	Clean	☆														Daily	G-14		
2	Engine oil	Change		★	☆		☆		☆		☆		☆		☆		every 100Hr	G-14, 19		
3	Engine oil filter	Replace		★			☆				☆				☆		every 200Hr	G-15, 25		
4	Transmission oil filter	Replace		★					☆						☆		every 300Hr	G-15, 29		
5	Transmission fluid	Change		★					☆						☆		every 300Hr	G-16, 28		
6	Front axle case oil	Change							☆						☆		every 300Hr	G-29		
7	Front axle pivot	Adjust									☆						every 400Hr	G-30		
8	Engine start system	Check		☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50Hr	G-17		
9	Greasing	–		☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50Hr	G-18		
10	Wheel bolt torque	Check		☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50Hr	G-18		
11	Battery condition	Check			☆		☆		☆		☆		☆		☆		every 100Hr	G-20	*4	
12	Air cleaner element [Double element type] Primary element	Clean			☆		☆		☆		☆		☆		☆		every 100Hr	G-22	*1	@
		Replace															every 1 year	G-33	*2	
	Air cleaner element [Double element type] Secondary element	Replace															every 1 year	G-33		
13	Fuel filter element	Clean			☆		☆		☆		☆		☆		☆		every 100Hr	G-23		@
		Replace									☆						every 400Hr	G-30		
14	Fan belt	Adjust			☆		☆		☆		☆		☆		☆		every 100Hr	G-23		
15	Brake	Adjust			☆		☆		☆		☆		☆		☆		every 100Hr	G-24		
16	Radiator hose and clamp	Check					☆				☆				☆		every 200Hr	G-25		
		Replace															every 2 years	G-35		

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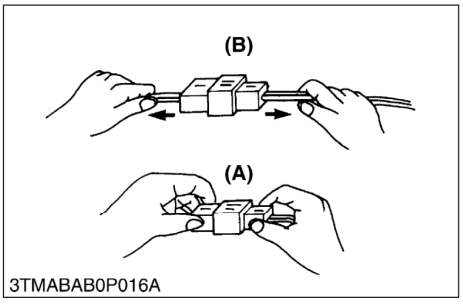
[4] CONNECTOR



- For connector with lock, push lock to separate.

(A) Push

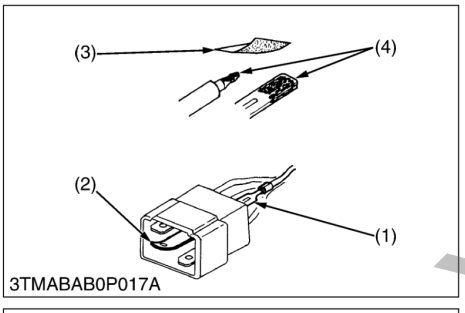
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- In separating connectors, do not pull wire harnesses.
- Hold connector bodies to separate.

(A) Correct **(B) Incorrect**

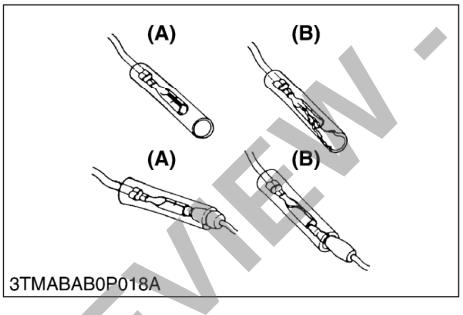
W1012279



- Use sandpaper to remove rust from terminals.
- Repair deformed terminal. Make certain there is no terminal being exposed or displaced.

(1) Exposed Terminal (3) Sandpaper
(2) Deformed Terminal (4) Rust

W1013297



- Make certain that there is no female connector being too open.

(A) Correct **(B) Incorrect**

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5. TIGHTENING TORQUES

[1] GENERAL USE SCREWS, BOLTS AND NUTS

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

Indication on top of bolt	⬡ 4 No-grade or 4T						⬡ 7 7T						⬡ 9 9T		
Material of bolt	SS400, S20C						S43C, S48C						SCr435, SCM435		
Material of opponent part	Ordinariness			Aluminum			Ordinariness			Aluminum			Ordinariness		
Unit / Diameter	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 (6 mm, 0.24 in.)	7.85 to 9.31	0.80 to 0.95	5.79 to 6.87	7.85 to 8.82	0.80 to 0.90	5.79 to 6.50	9.81 to 11.2	1.00 to 1.15	7.24 to 8.31	7.85 to 8.82	0.80 to 0.90	5.79 to 6.50	12.3 to 14.2	1.25 to 1.45	9.05 to 10.4
M8 (8 mm, 0.31 in.)	17.7 to 20.5	1.8 to 2.1	13.1 to 15.1	16.7 to 19.6	1.7 to 2.0	12.3 to 14.4	23.6 to 27.4	2.4 to 2.8	17.4 to 20.2	17.7 to 20.5	1.8 to 2.1	13.1 to 15.1	29.5 to 34.3	3.0 to 3.5	21.7 to 25.3
M10 (10 mm, 0.39 in.)	39.3 to 45.1	4.0 to 4.6	29.0 to 33.2	31.4 to 34.3	3.2 to 3.5	23.2 to 25.3	48.1 to 55.8	4.9 to 5.7	35.5 to 41.2	39.3 to 44.1	4.0 to 4.5	29.0 to 32.5	60.9 to 70.6	6.2 to 7.2	44.9 to 52.0
M12 (12 mm, 0.47 in.)	62.8 to 72.5	6.4 to 7.4	46.3 to 53.5	–	–	–	77.5 to 90.2	7.9 to 9.2	57.2 to 66.5	62.8 to 72.5	6.4 to 7.4	46.3 to 53.5	103 to 117	10.5 to 12.0	76.0 to 86.7
M14 (14 mm, 0.55 in.)	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 (16 mm, 0.63 in.)	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 (18 mm, 0.71 in.)	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 (20 mm, 0.79 in.)	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 / Diameter	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft
M8 (8 mm, 0.31 in.)	11.8 to 15.6	1.2 to 1.6	8.68 to 11.5	8.82 to 11.8	0.90 to 1.2	6.51 to 8.67
M10 (10 mm, 0.39 in.)	24.6 to 31.3	2.5 to 3.2	18.1 to 23.1	19.7 to 25.4	2.0 to 2.6	14.5 to 18.8
M12 (12 mm, 0.47 in.)	29.5 to 49.0	3.0 to 5.0	21.7 to 36.1	31.4	3.2	23.1

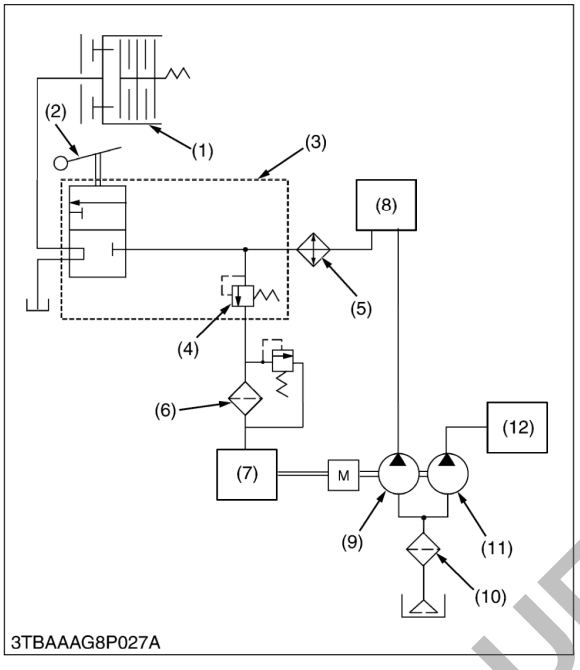
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5. INDEPENDENT PTO

[1] HYDRAULIC CIRCUIT

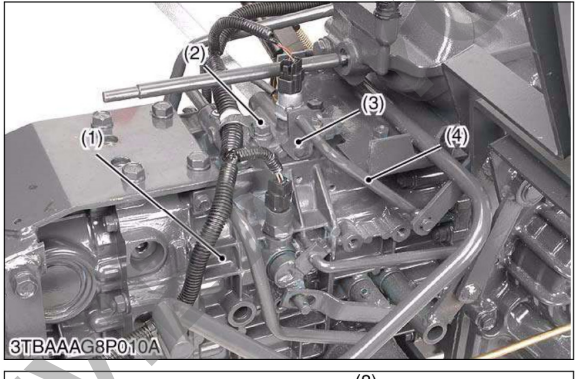


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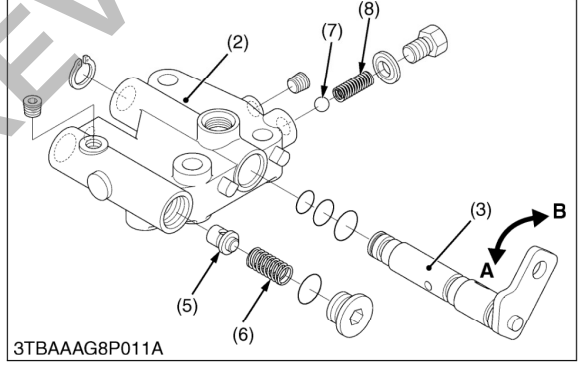
(1) PTO Clutch
(2) Independent PTO Lever
(3) Independent PTO Control Valve
(4) Relief Valve
(5) Oil Cooler
(6) Oil Filter Cartridge (for HST)
(7) HST
(8) Power Steering
(9) Hydraulic Pump (for HST, Power Steering and Independent PTO)
(10) Oil Filter Cartridge
(11) Hydraulic Pump (3-Points Hitch)
(12) 3-Points Hitch

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[2] INDEPENDENT PTO CONTROL VALVE



3TBAAAG8P010A



3TBAAAG8P011A

Independent PTO control valve (2) is located at transmission case (1).

The independent PTO control valve (2) is composed of PTO arm (3), poppet (5), ball (7) and etc..

The PTO arm (3) is connected to control rod (4) and the independent PTO lever.

The PTO arm (3) is moved to **"OFF"** or **"ON"** position by the independent PTO lever.

Oil passage in the PTO arm (3) is turned by the independent PTO lever.

When the PTO arm (3) is moved to **"OFF"** position, oil in the independent PTO control valve does not flow to the oil passage.

When the PTO arm (3) is moved to **"ON"** position, oil in the independent PTO control valve flow to the oil passage.

Poppet (5) and spring (6) operate as a relief valve.

(1) Transmission Case
(2) Independent PTO Control Valve
(3) PTO Arm
(4) Control Rod
(5) Poppet
(6) Spring
(7) Ball
(8) Spring

A : PTO arm "OFF" position
B : PTO arm "ON" position

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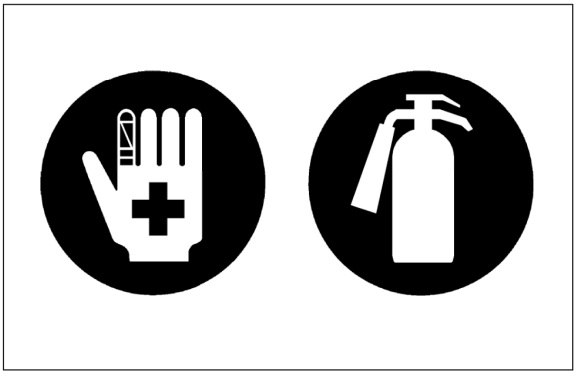
1. TROUBLESHOOTING

Symptom	Probable Cause	Solution	Reference Page
Excessive or Unusual Noise at All Time	Improper backlash between differential gear shaft and final reduction gear	Replace	2-S64, S65
	Bearing worn	Replace	3-S4, 4-S5
	Insufficient or improper type of transmission fluid used	Replenish or change	G-8, 16
Noise while Turning	Brake shaft and spur gear and internal gear worn or damaged	Replace	3-S4, 4-S5

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PREPARE FOR EMERGENCIES

- Keep a first aid kit and fire extinguisher handy at all times.
- Keep emergency numbers for doctors, ambulance service, hospital and fire department near your telephone.

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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.**

[1] DAILY CHECK

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

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 leak.
3. Check the engine oil level.
4. Check the transmission fluid level.
5. Check the coolant level.
6. Check the condition of seat belt and ROPS attaching hardware.
7. Check and clean the radiator screen and grill.
8. Check the screws and nuts of tires are tight.
9. Check the number plate.
10. Care of danger, warning and caution labels.
11. Clean around the exhaust manifold and the muffler of the engine.

- While sitting on the operator's seat.

1. Check the HST pedal, brake pedals.
2. Check the parking brake.
3. Check the steering wheel.

- Turning the key switch

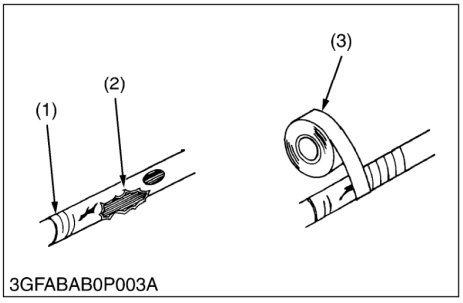
1. Check the performance of the easy checker lights.
2. Check the lights, turn signal lights, hazard lights and other light equipment. Clean if necessary.
3. Check the performance of the meters and gauges.

- Starting the engine

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

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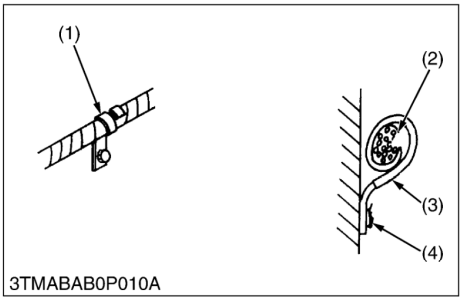


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- Repair or change torn or aged wiring immediately.

(1) Aged
(2) Torn
(3) Insulating Vinyl Tape

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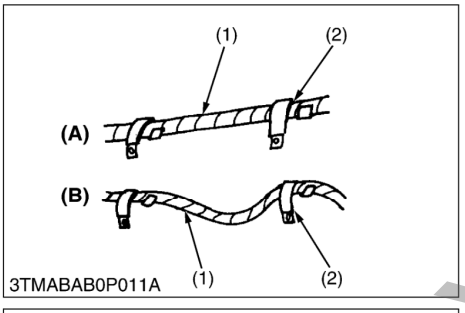


3TMABAB0P010A

- Securely clamp, being careful not to damage wiring.

(1) Clamp
*Wind Clamp Spirally
(2) Wire Harness
(3) Clamp
(4) Welding Dent

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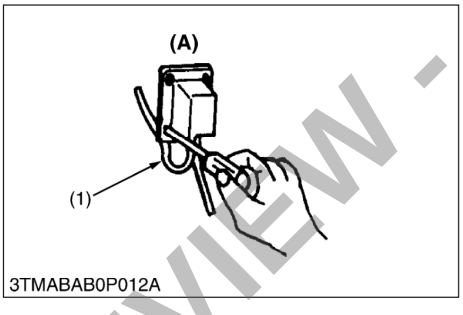


3TMABAB0P011A

- Clamp wiring so that there is no twist, unnecessary sag, or excessive tension, except for movable part, where sag be required.

(1) Wiring
(2) Clamp
(A) Correct
(B) Incorrect

W1011827



3TMABAB0P012A

- In installing a part, take care not to get wiring caught by it.

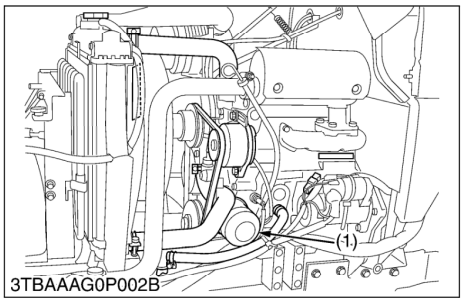
(1) Wiring
(A) Incorrect

W1011899

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[5] CHECK POINTS OF EVERY 200 HOURS



Replacing Engine Oil Filter Cartridge

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.**

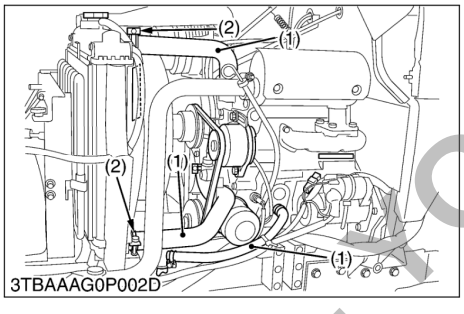
1. Remove the oil filter cartridge with the filter wrench.
2. Apply a slight coat of oil onto the rubber seal of new filter.
3. To install the new cartridge, screw it in by hand. Over tightening may cause deformation of rubber gasket.
4. After the new cartridge has been replaced, the engine oil normally decrease a little. Thus see that the engine oil does not leak through the seal and be sure to read the oil level on the dipstick. Then, replenish the engine oil up to the specified level.

■ **IMPORTANT**

- **To prevent serious damage to the engine, replacement filter must be highly efficient. Use only a KUBOTA genuine filter or its equivalent.**

(1) Engine Oil Filter Cartridge

W1039540



Checking Radiator Hose and Clamp

Check to see if radiator hose (1) are properly fixed every 200 hours of operation or six months, whichever comes first.

1. If clamp bands (2) are loose or water leaks, tighten clamp bands (2) securely.
2. Replace radiator hoses (1) and tighten clamp bands (2) securely, if radiator hoses (1) are swollen, hardened or cracked.

Replace radiator hoses (1) and clamp bands (2) every 2 years or earlier if checked and found that radiator hoses (1) are swollen, hardened or cracked.

■ **Precaution at Overheating**

Take the following action in the event the coolant temperature is nearly or more than the boiling point, what is called “Overheating”.

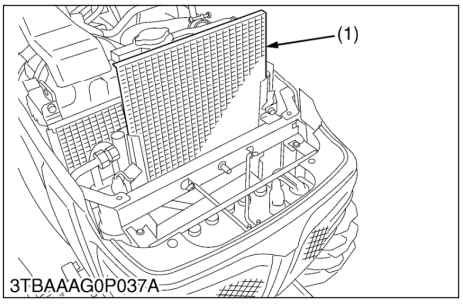
1. Park the tractor in a safe place and keep the engine unloaded idling.
2. Do not stop the engine suddenly, but stop it after about 5 minutes of unloaded idling.
3. Keep yourself well away from the machine for further 10 minutes or while the steam blows out.
4. Check that there are no dangers such as burns. Get rid of the causes of overheating according to the manual, see **“Troubleshooting”** section, and then, start again the engine.

(1) Radiator Hose (2) Clamp Band

W1048136

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Cleaning Air Conditioner Condenser Screen (CABIN)

CAUTION

- **Be sure to stop the engine before removing the screen.**

1. Detach the air conditioner condenser screen (1) and remove all foreign materials.

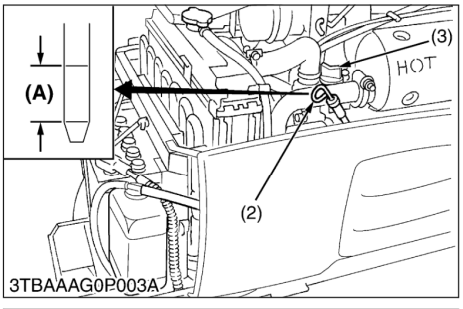
IMPORTANT

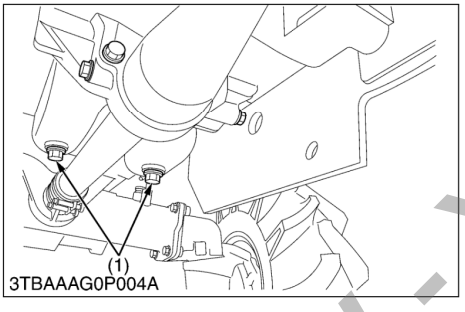
- **Grill and screen must be clean from debris to prevent engine from overheating and to allow good air intake for air cleaner.**

(1) Air Conditioner Condenser Screen

W1034587

[2] CHECK POINTS OF INITIAL 50 HOURS





Changing Engine Oil

CAUTION

- **Before changing oil, be sure to stop the engine.**

1. Start and warm up the engine for approx. 5 minutes.
2. Place an oil pan underneath the engine.
3. To drain the used oil, remove the drain plug (1) at the bottom of the engine and drain the oil completely.
4. Screw in the drain plug (1).
5. Fill new oil up to upper line on the dipstick (2).

IMPORTANT

- **When using an oil of different manufacture or viscosity from the previous one, remove all of the old oil.**
- **Never mix two different types of oil.**
- **Use the proper SAE Engine Oil according to ambient temperatures.**
- **Refer to "LUBRICANTS, FUEL AND COOLANT". (See page G-8.)**

Engine oil	Capacity	B2630	3.0 L 3.2 U.S.qts 2.6 Imp.qts
		B3030	4.1 L 4.3 U.S.qts 3.6 Imp.qts

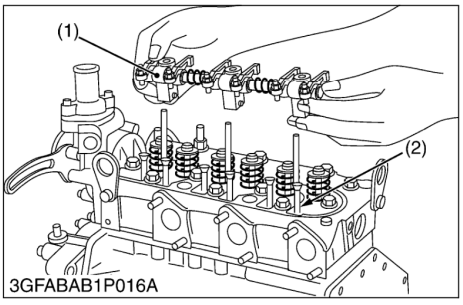
(1) Drain Plug
(2) Dipstick
(3) Oil Inlet Plug

A : Oil level is acceptable within this range.

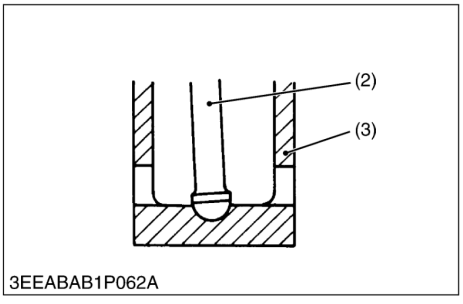
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3GFABAB1P016A



3EEABAB1P062A

Rocker Arm and Push Rod

1. Remove the rocker arm bracket nut.
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 dimples.

■ **IMPORTANT**

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

Tightening torque	Rocker arm bracket nut	21.6 to 26.5 N·m 2.2 to 2.7 kgf·m 15.9 to 19.5 lbf·ft

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

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MECHANISM

CONTENTS

1. STRUCTURE 3-M1

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OPERATOR PRESENCE CONTROL (OPC)

Symptom	Probable Cause	Solution	Reference Page
Engine Does Not Stop	Solenoid fuse blown (30A)	Replace	G-40, 41
	Engine stop solenoid replay defective	Replace	8-S14
	Engine stop solenoid defective	Replace	1-S35
	Operator presence controller defective	Replace	8-S28
	PTO shift lever switch defective	Adjust or Replace	8-S24, 25
	Independent PTO lever switch defective	Adjust or Replace	8-S22, 23
	HST pedal switch defective	Adjust or Replace	8-S20, 21
	Wiring harness disconnected or improperly connected (between key stop solenoid relay and key stop solenoid, between key stop solenoid relay and battery positive terminal)	Repair or Replace	8-M4
	Wiring harness disconnected or improperly connected (between operator presence controller and key stop solenoid relay)	Repair or Replace	8-M4
Starter Motor Does Not Operate	Solenoid fuse blown	Replace	G-40, 41
	Engine stop solenoid defective	Replace	1-S35
	Engine stop solenoid relay defective	Replace	8-S14
	Seat switch or seat tilt switch defective	Adjust or Replace	8-S16 to 19
	PTO shift lever switch defective	Adjust or Replace	8-S24, 25
	Independent PTO lever switch defective	Adjust or Replace	8-S22, 23
	HST pedal switch defective	Adjust or Replace	8-S20, 21
	Operator presence controller defective	Replace	8-S28
	Wiring harness disconnected or improperly connected (between key stop solenoid relay and key stop solenoid, between key stop solenoid relay and battery positive terminal)	Repair or Replace	8-M4
	Wiring harness disconnected or improperly connected (between operator presence controller and key stop solenoid relay)	Repair or Replace	8-M4
Engine Stops When HST Pedal is Pushed in Forward or in Reverse	Wrong wiring of seat switch and seat tilt switch	Proper Wiring	G-17 8-M4

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