WSM

WORKSHOP MANUAL

TRACTOR,ROTARY MOWER

BX1880-AU,BX2380-AU, BX2680-AU,RCK60B-23BX, RCK54-23BX,RCK48-18BX, RCK60D-26BX,RCK54D-26BX

Kubota

KiSC issued 02, 2022 A

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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 assemble 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, could result in minor or moderate injury.**

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

NOTE
- **Gives helpful information.**

1. Preparing for emergencies

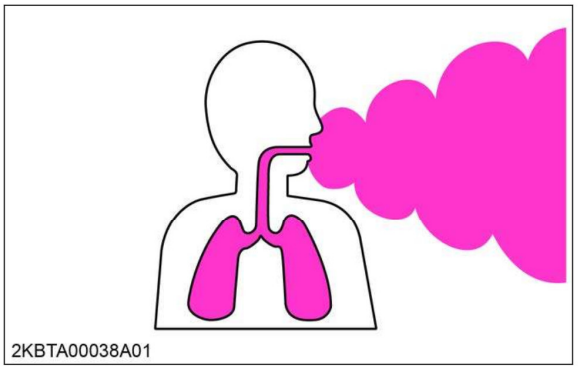

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- Keep a first aid kit and fire extinguisher ready at all times.
- Keep emergency numbers near your telephone at all times.

2. Working cautions


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- Wear proper service attire when performing work. Do not wear loose clothing as they could get caught on machine components.
- Wear the proper protective equipment when working around the machine. For example helmet, eye protector and protective shoes.
- Do not work around the machine if you are tired or have consumed alcohol or drugs.


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- Keep the machine away from obstacles and hazardous materials.
- Ensure the working environment is properly ventilated.
- Do not allow third parties to come near the machine.

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SPECIFICATIONS

1. BX tractor specifications

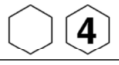
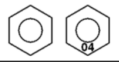
Model			BX1880	BX2380	BX2680
PTO power*1			10.2 kW (13.7 HP)	13.2 kW (17.7 HP)	14.5 kW (19.5 HP)
Engine	Maker		Kubota		
	Model		D722	D902	D1005
	Type		Liquid-cooled, 4-cycle diesel		
	Number of cylinders		3		
	Bore and stroke		67 × 68 mm (2.64 × 2.68 in.)	72 × 73.6 mm (2.83 × 2.90 in.)	76 × 73.6 mm (2.99 × 2.90 in.)
	Total displacement		719 cm^3 (43.9 cu. in.)	898 cm^3 (54.8 cu. in.)	1001 cm^3 (61.1 cu. in.)
	Engine gross power*2		12.4 kW (16.6 HP)	16.1 kW (21.6 HP)	18.5 kW (24.8 HP)
	Rated revolution		3200 rpm		
	Low idling revolution		1350 to 1550 rpm		
	Maximum torque		44.9 N·m (33.1 lbf·ft)	56.1 N·m (41.4 lbf·ft)	60.2 N·m (44.4 lbf·ft)
	Battery		12 V, CCA: 560 A, RC: 86 min.		
	Fuel		Diesel fuel No.1 [below -10 ℃ (14 ℉)] Diesel fuel No.2 [above -10 ℃ (14 ℉)]		
Capacities	Fuel tank		25 L 6.6 U.S.gals 5.5 Imp.gals		
	Engine crankcase (with filter)		3.0 L 3.2 U.S.qts 2.6 Imp.qts	3.3 L 3.5 U.S.qts 2.9 Imp.qts	4.0 L 4.2 U.S.qts 3.5 Imp.qts
	Engine coolant		2.9 L 3.1 U.S.qts 2.6 Imp.qts	3.1 L 3.3 U.S.qts 2.7 Imp.qts	3.3 L 3.5 U.S.qts 2.9 Imp.qts
	Recovery tank		0.4 L 0.1 U.S.gals 0.09 Imp.gals		
	Transmission case		11.3 L 2.99 U.S.gals 2.49 Imp.gals		
Dimensions	Overall length (without 3p)		2120 mm (83.5 in.)		
	Overall length (with 3p)		2425 mm (95.5 in.)		
	Overall width (Min. tread)		1120 mm (44.1 in.)	1145 mm (45.1 in.)	
	Overall height	(with ROPS)	2080 mm (81.9 in.)	2110 mm (83.0 in.)	
		(Top of seat)	1230 mm (48.4 in.)	1460 mm (57.5 in.)	
	Wheel base		1400 mm (55.1 in.)		
	Min. ground clearance		148 mm (5.8 in.)	166 mm (6.5 in.)	
	Tread	Front	930 mm (36.6 in.)		
		Rear	820 mm (32.3 in.)		

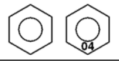
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TIGHTENING TORQUES

1. General use screws, bolts and nuts

Indication on top of bolt	 No-grade or 4T					
Indication on top of nut	 No-grade or 4T					
Material of opponent part	Ordinariness			Aluminum		
Unit	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
M8	18 to 20	1.8 to 2.1	13 to 15	17 to 19	1.7 to 2.0	13 to 14
M10	40 to 45	4.0 to 4.6	29 to 33	32 to 34	3.2 to 3.5	24 to 25
M12	63 to 72	6.4 to 7.4	47 to 53	–	–	–
M14	108 to 125	11.0 to 12.8	79.6 to 92.5	–	–	–
M16	167 to 191	17.0 to 19.5	123 to 141	–	–	–
M18	246 to 284	25.0 to 29.0	181 to 209	–	–	–
M20	334 to 392	34.0 to 40.0	246 to 289	–	–	–

Indication on top of bolt	 7T					
Indication on top of nut	 No-grade or 4T					
Material of opponent part	Ordinariness			Aluminum		
Unit	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft
M6	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
M8	24 to 27	2.4 to 2.8	18 to 20	18 to 20	1.8 to 2.1	13 to 15
M10	48 to 55	4.9 to 5.7	36 to 41	40 to 44	4.0 to 4.5	29 to 32
M12	78 to 90	7.9 to 9.2	58 to 66	63 to 72	6.4 to 7.4	47 to 53
M14	124 to 147	12.6 to 15.0	91.2 to 108	–	–	–
M16	197 to 225	20.0 to 23.0	145 to 166	–	–	–
M18	275 to 318	28.0 to 32.5	203 to 235	–	–	–
M20	368 to 431	37.5 to 44.0	272 to 318	–	–	–

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MAINTENANCE CHECK LIST

1. BX tractor service intervals

No.	Items		Indication on hour meter													Since then	Reference page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Engine oil	Change	◎			○				○				○			every 200 Hr	2-34	*1	
2	Engine oil filter	Replace	◎			○				○				○			every 200 Hr	2-35	*1	
3	Transmission oil filter	Replace	◎			○				○				○			every 200 Hr	2-36	*1	
4	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	2-37		
5	OPC system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	2-38		
6	Greasing	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	2-36		
7	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	2-38		
8	Lock lever	Clean	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	2-39		
9	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	2-39	*B	
10	Air cleaner element	Clean		○		○		○		○		○		○		○	every 100 Hr	2-35	*2	@
		Replace															every 1000 Hr or 1 year	2-48	*3	
11	Fuel filter element	Check		○		○		○		○		○		○		○	every 100 Hr	2-41		@
		Replace								○							every 400 Hr	2-48		
12	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	2-42		
13	HST neutral spring	Adjust		○		○		○		○		○		○		○	every 100 Hr	2-42		
14	Brake pedal	Adjust		○		○		○		○		○		○		○	every 100 Hr	2-43		
15	Toe-in	Adjust				○				○				○			every 200 Hr	2-45		
16	Transmission fluid	Change								○							every 400 Hr	2-46	*1	
17	Transmission strainer	Clean								○							every 400 Hr	2-47	*1	
18	Front axle case oil	Change								○							every 400 Hr	2-47		
19	Front axle pivot	Adjust								○							every 400 Hr	2-46		
20	Engine valve clearance	Adjust															every 800 Hr	2-48		
21	Injection pressure of the fuel injection nozzle	Check															every 1500 Hr	2-49		@
22	Cooling system	Flush															every 2000 Hr or 2 years	2-49	*4	
23	Coolant	Change															every 2000 Hr or 2 years	2-49 2-50	*4	
24	Injection pump	Check															every 3000 Hr	2-51		@
25	Radiator hose and clamp	Check															every 1 year	2-51	*R	
		Replace															every 4 years	2-53		
26	Power steering oil line	Check															every 1 year	2-52	*R	
		Replace															every 4 years	2-53		
27	Fuel line	Check															every 1 year	2-52	*R	@
		Replace															every 4 years	2-53		
28	Intake air line	Check															every 1 year	2-51	*R	@

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CHECK AND MAINTENANCE

1. Periodic service

⚠ WARNING
To avoid serious injury or death:
- **Do not work under any hydraulically supported devices. Hydraulically supported devices can settle, suddenly leak down, or be accidentally lowered.**
- **If necessary to work under the machine or any machine elements for servicing or adjustment, securely support the machine or any machine elements with stands or suitable blocking beforehand.**

1.1 Daily check

⚠ WARNING
- **To avoid serious injury or death:**
  Take the following precautions when checking the tractor.
  - **Park the machine on firm and level ground.**
  - **Set the parking brake.**
  - **Lower the implement to the ground.**
  - **Release all residual pressure of the hydraulic system.**
  - **Stop the engine and remove the key.**

For your own safety and maximum service life of the machine, make a thorough daily inspection before operating the machine or starting the engine.

1.1.1 Walk around inspection

Look around and under the tractor for such items as loose bolts, trash build-up, oil or coolant leaks, or broken or worn parts.

1.1.2 Checking fuel gauge and refueling

⚠ WARNING
To avoid serious injury or death:
- **Do not smoke while refueling.**
- **Be sure to stop the engine and remove the key before refueling.**

To avoid allergic skin reaction:
- **Wash hands immediately after contact with diesel fuel.**

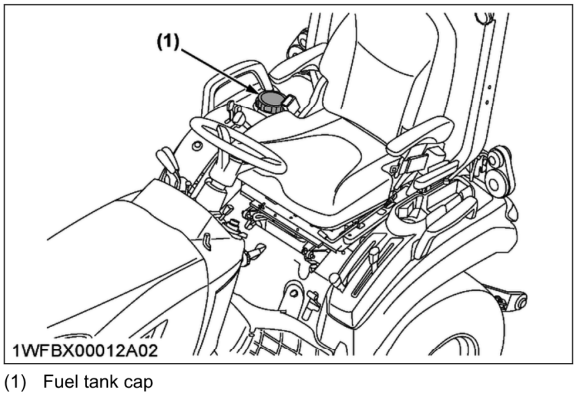
■ IMPORTANT
- **Do not permit dirt, trash, or water to get into the fuel system.**
- **Be careful not to empty the fuel tank, otherwise air will enter the fuel system, necessitating bleeding before next starting the engine.**
- **Be careful not to spill the fuel during refueling. If you should spill, wipe it off at once, or it may cause a fire.**
- **To prevent water condensation and water accumulation in the fuel tank, fill the tank before parking overnight.**

Using fuel

Temperature	fuel
Above -10 ℃ (14 ℉)	Grade No. 2-Diesel fuel
Below -10 ℃ (14 ℉)	Grade No. 1-Diesel fuel

1. Turn the key switch to the **ON** position and check the amount of fuel by the fuel gauge.
2. Fill the fuel tank with fuel when the fuel gauge shows as follows.

Amount of fuel for refueling		1/4 or less in the fuel tank
Fuel tank	Capacity	25 L 6.6 U.S.gals.



(1) Fuel tank cap

1.1.3 Checking engine oil level

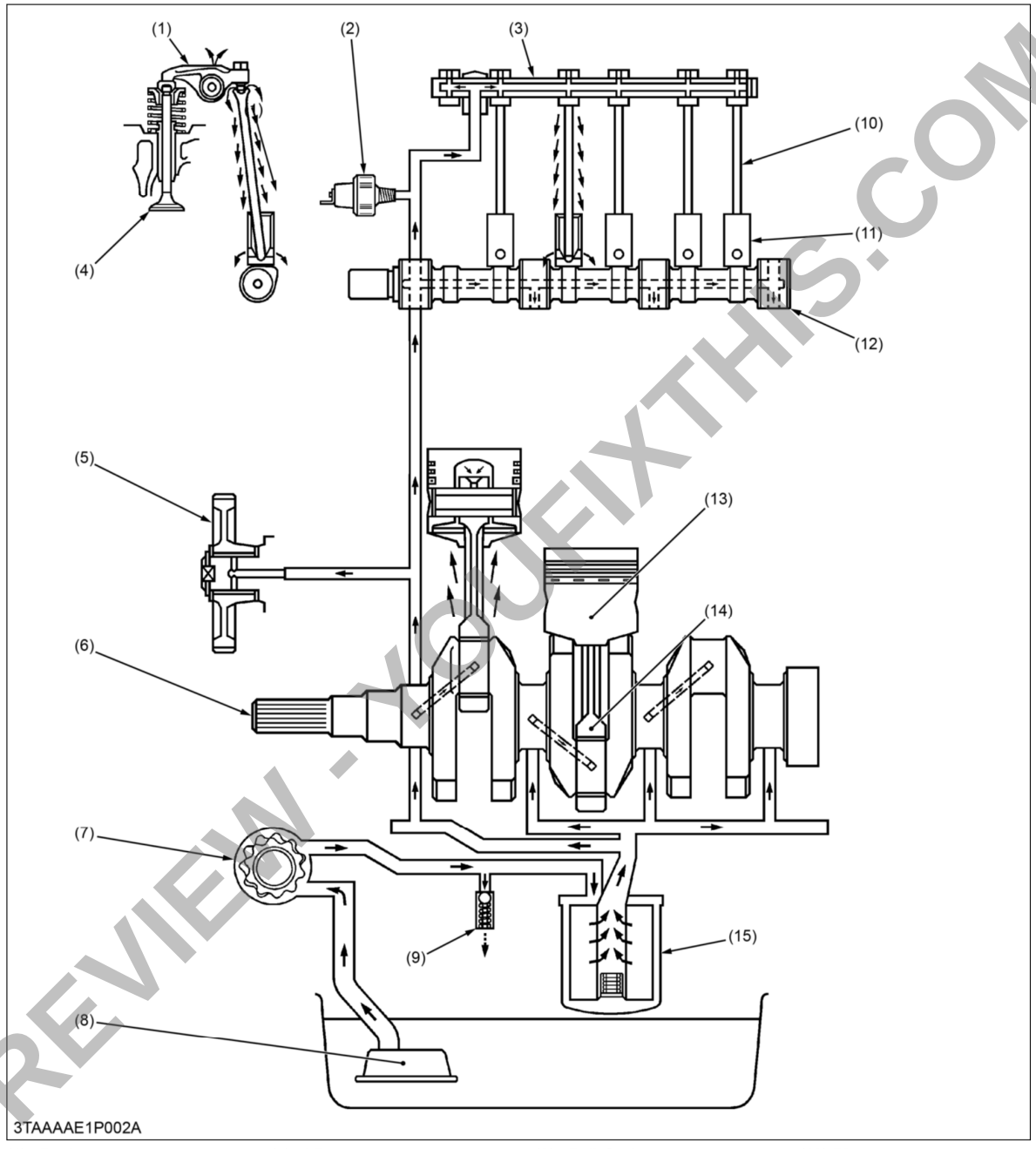
⚠ WARNING
To avoid serious injury or death:
- **Be sure to stop the engine before checking the engine oil level.**

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2. Lubricating system

2.1 Overview of lubricating system



(1) Rocker arm
(2) Oil pressure switch
(3) Rocker arm shaft
(4) Valve
(5) Idle gear
(6) Crankshaft
(7) Oil pump
(8) Oil strainer
(9) Relief valve
(10) Push rod
(11) Tappet
(12) Camshaft
(13) Piston
(14) Connecting rod
(15) Oil filter cartridge

This engine's lubricating system consists of oil strainer (8), oil pump (7), relief valve (9), oil filter cartridge (15) and oil pressure switch (2).

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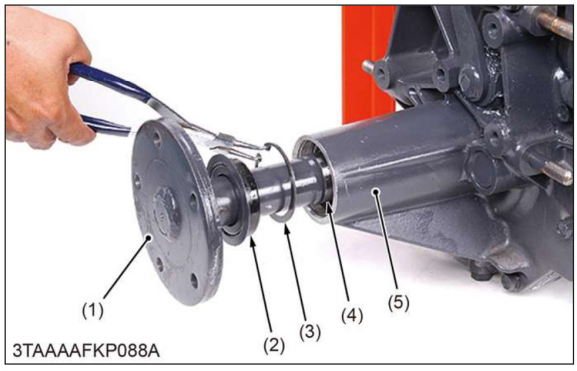
SERVICING

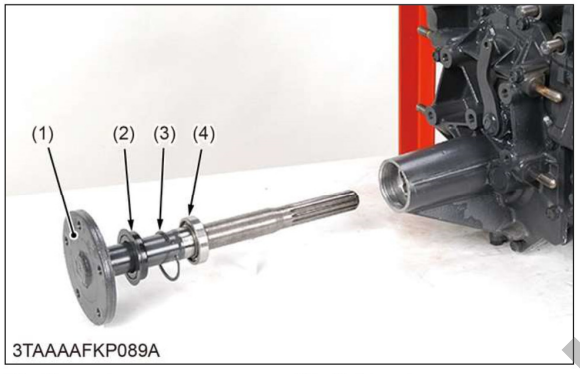
1. Troubleshooting for engine

Symptom	Probable cause and checking procedure	Solution	Reference page
Engine does not start	1. No fuel	Fill	2-17
	2. Air in fuel system	Vent air	2-54
	3. Fuel line clogged	Clean or replace	2-52
	4. Water in fuel system	Change fuel and repair or replace fuel system	2-52
	5. Fuel filter clogged	Replace	2-41
	6. Excessively high viscosity of fuel or engine oil at low temperature	Use specified fuel or engine oil	2-17
	7. Fuel with low cetane number	Use specified fuel	2-17
	8. Fuel leak due to loose injection pipe retaining nut	Tighten retaining nut	3-43
	9. Incorrect injection timing	Adjust	3-34
	10. Fuel camshaft worn	Replace	3-50
	11. Injection nozzle clogged	Clean or replace	3-43
	12. Injection pump malfunctioning	Repair or replace	3-49
	13. Seizure of crankshaft, camshaft, piston, cylinder or bearing	Repair or replace	3-51 3-54
	14. Compression leak from cylinder	Replace head gasket, tighten cylinder head screw glow plug and nozzle holder	3-30 3-46
	15. Improper valve timing	Correct or replace timing gear	3-50
	16. Piston ring and cylinder worn	Replace	3-52
	17. Excessive valve clearance	Adjust	3-30
Starter does not operate	1. Battery discharged	Charge	2-39
	2. Starter malfunctioning	Repair or replace	8-50
	3. Main switch malfunctioning	Replace	8-32
	4. Wiring disconnected	Connect	—
	5. Safety switch malfunctioning	Check and replace	8-35
Engine revolution is not smooth	1. Fuel filter clogged or dirty	Replace	2-41

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(1) Rear axle
(2) Oil seal
(3) Internal circlip
(4) Ball bearing
(5) Rear axle case

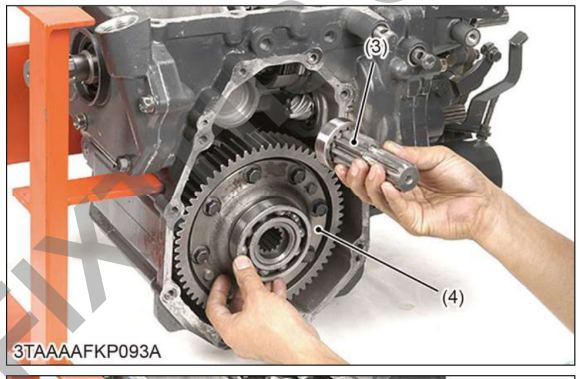
1. Draw out the oil seal with a screw driver.
2. Remove the internal circlip from the rear axle case.
3. Draw out the rear axle from the rear axle case.

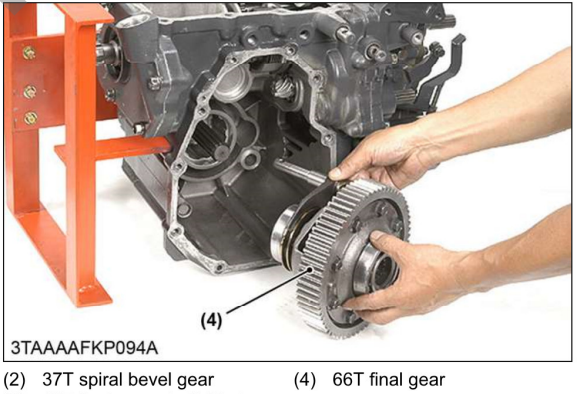
(When reassembling)
- Do not damage the oil seal.

5.4.5 Removing rear axle case (R.H.)









(2) 37T spiral bevel gear
(3) 10T final gear shaft (Brake shaft)
(4) 66T final gear

1. Remove the rear axle case (R.H.) mounting bolts.

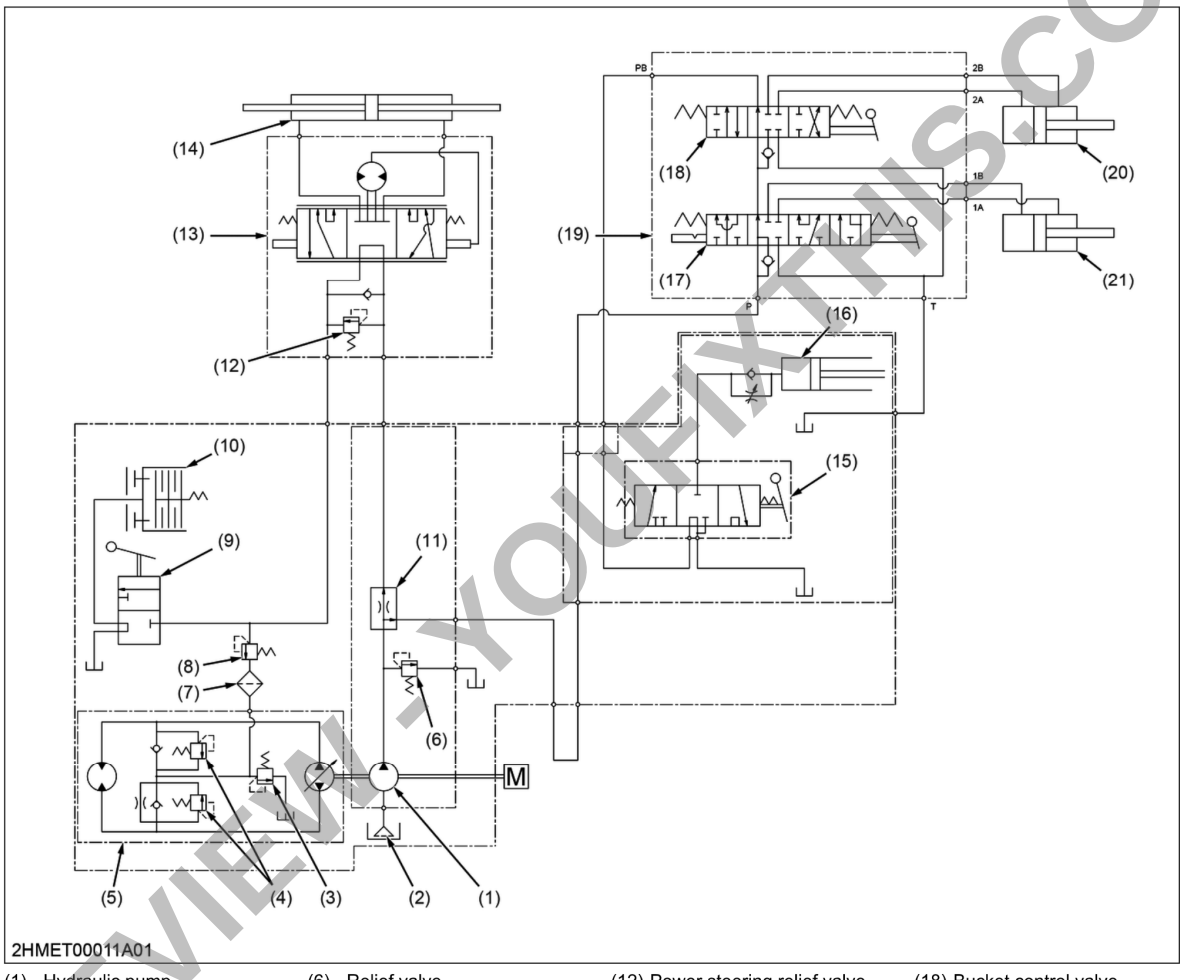
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2. Hydraulic circuit

The hydraulic system of this tractor consists of a hydraulic pump, control valve for front loader, 3 point hitch system and other components.
This system has the following functions:

1. Oil is supplied by hydraulic pump which is driven by pump drive shaft in the transmission case. As the pump drive shaft is connected to the propeller shaft, hydraulic pump starts operating when engine is started.
2. The hydraulic pump supplies the high pressured oil to auxiliary hydraulic control valve for front loader, control valve for 3 point hitch system, power steering controller, PTO clutch valve and hydrostatic transmission after dividing oil flow by flow priority valve.



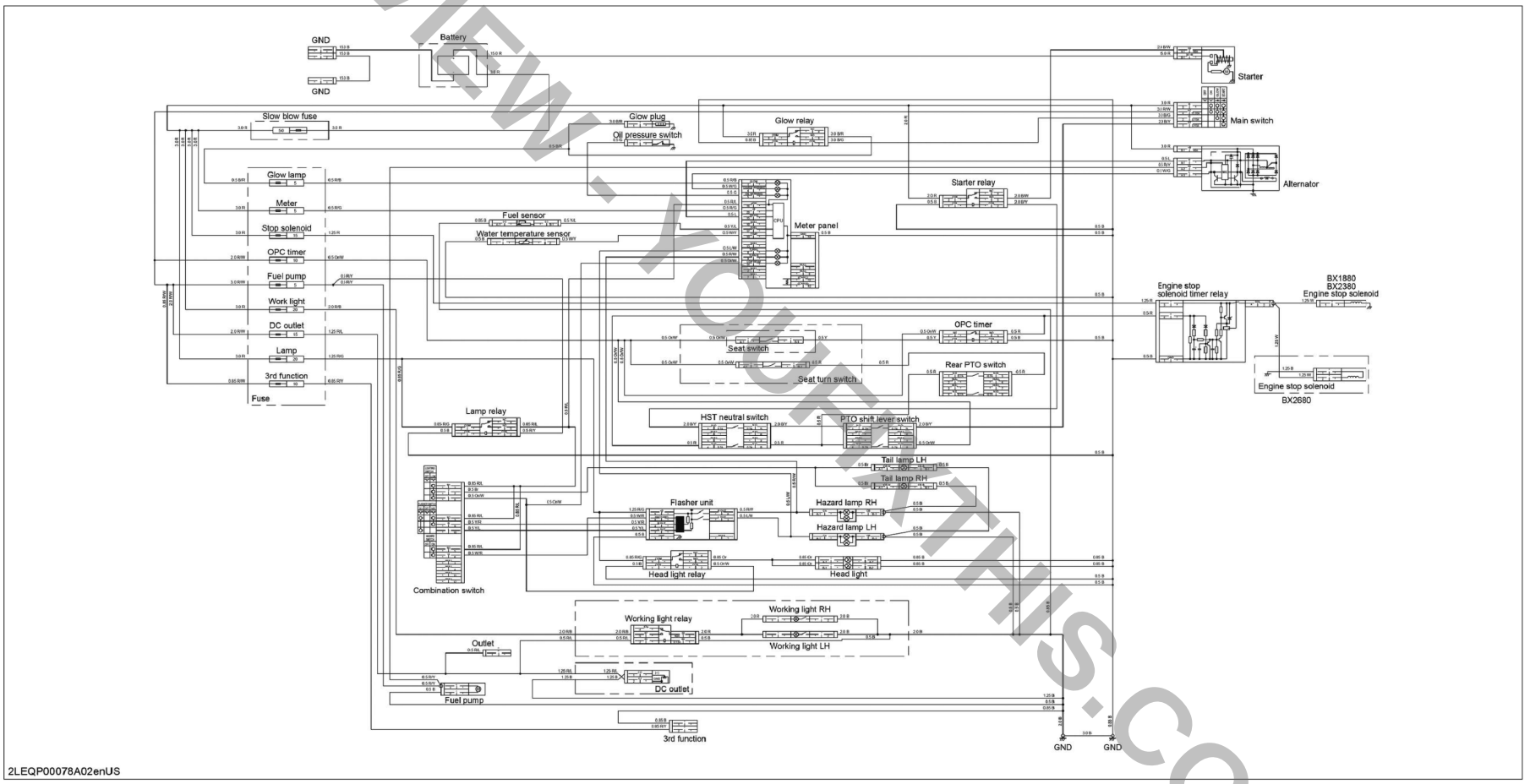
(1) Hydraulic pump
(2) Hydraulic oil filter
(3) Charge relief valve
(4) Check and high pressure relief valve
(5) Hydrostatic transmission
(6) Relief valve
(7) Hydraulic oil filter
(8) PTO clutch relief valve
(9) PTO clutch relief valve
(10) PTO clutch
(11) Flow priority valve
(12) Power steering relief valve
(13) Power steering controller
(14) Steering cylinder
(15) Control valve
(16) Hydraulic cylinder
(17) Boom control valve
(18) Bucket control valve
(19) Front loader control valve
(20) Bucket cylinder
(21) Boom cylinder

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MECHANISM

1. Wiring diagram of BX tractor



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■ NOTE

- **The following data represent industry standards that necessitate a minimum glycol content in the concentrated antifreeze.**
- Long-life coolant (hereafter LLC) comes in several types. Use ethylene glycol (EG) type for this engine.
- Before using LLC-mixed cooling water, fill the radiator with fresh water and empty it again.
  Repeat this procedure two times or three times to clean up the inside.
- Mixing the LLC

Premix	50% LLC with 50% clean soft water.

  When mixing, stir it up well, and then fill into the radiator.
- Adding the LLC.
  – Add only water if the mixture reduces in amount by evaporation.
  – If there is a mixture leak, add the LLC of the same manufacturer and type in the same mixture percentage.

■ IMPORTANT

- **Never add any long-life coolant of different manufacturer. Different brands may have different additive components, and the engine may fail to perform as specified.**

- When the LLC is mixed, do not use any radiator cleaning agent. The LLC contains anticorrosive agent. If mixed with the cleaning agent, sludge may build up, adversely affecting the engine parts.
- KUBOTA's genuine long-life coolant has a service life of two years.
  Be sure to change the coolant every two years.
- The procedure for the mixing of water and the antifreeze differs according to the make of the antifreeze and the ambient temperature. Refer to SAE J1034 standard, more specifically also to SAE J814c.

Antifreeze	Freezing point		Boiling point*1	
50 Vol %	-37 ℃	-34 ℉	108 ℃	226 ℉

*1 At 1.013 × 10^5 Pa (760 mmHg) atmospheric pressure. A higher boiling point is obtained by using a radiator pressure cap which permits the development of pressure within the cooling system.

1.11 Check points of every 3000 hours

1.11.1 Checking injection pump

- See *"Fuel system"* for checking injection pump.

RELATED PAGE
4. Fuel system on page 3-12

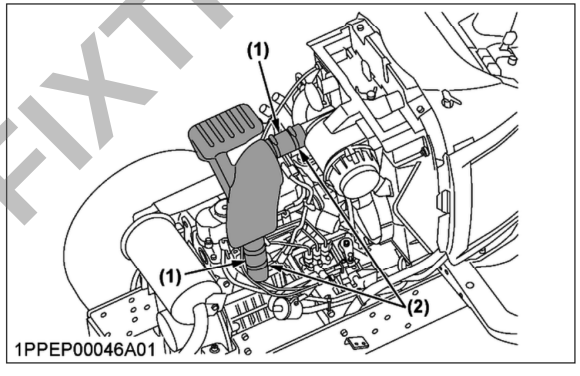
1.12 Check points of every 1 year

1.12.1 Checking intake air line

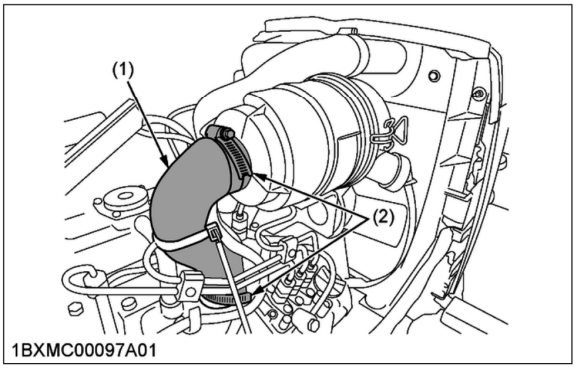
⚠ WARNING
To avoid serious injury or death:
- **Stop the engine and remove the key before checking the intake air line.**

1. Check to see that the hose and the hose clamps are tight and not damaged.
2. If the hose and the clamps are found worn or damaged, replace or repair them at once.

BX1880 and BX2380



BX2680



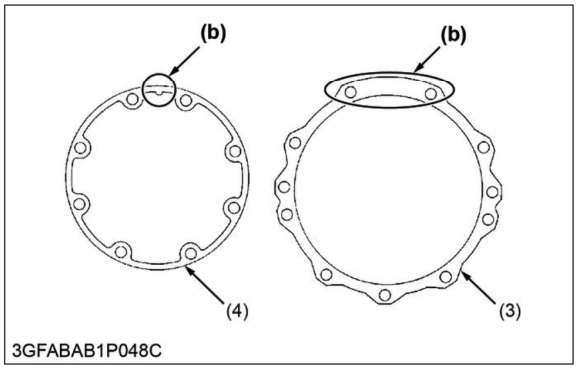
(1) Hose (2) Hose clamps

1.12.2 Checking radiator hoses and hose clamps

⚠ WARNING
To avoid serious injury or death:

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(3) Bearing case gasket
(4) Bearing case cover gasket
(b) Upside

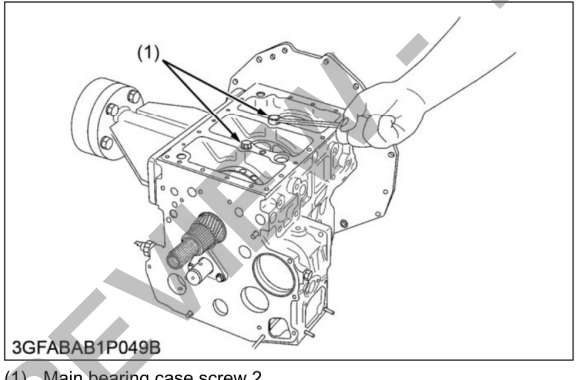
- Install the bearing case cover (6) to position the casting mark **[UP]** on it upward.
- Apply engine oil to the oil seal (5) lip and be careful that it is not rolled when installing.
- Tighten the bearing case cover mounting screws with even force on the diagonal line.

Tightening torque	Bearing case cover mounting screw	9.81 to 11.2 N·m 1.00 to 1.14 kgf·m 7.24 to 8.26 lbf·ft

5.2.4.3 Removing crankshaft assembly

■ IMPORTANT

- **Be careful to protect crankshaft bearing 1 from scratches, caused by the crank gear, etc. (Wrap the gear in vinyl tape, etc.)**



(1) Main bearing case screw 2

1. Remove the main bearing case screw 2 (1).
2. Pull out the crankshaft assembly.

(When reassembling)

- Clean the oil passage of the crankshaft with compressed air.
- Apply oil to the main bearing case screw 2 (1).
- Install the crankshaft assembly, aligning the screw hole of main bearing case with the screw hole of crankcase.
- Clean the oil passage of the crankshaft with compressed air.

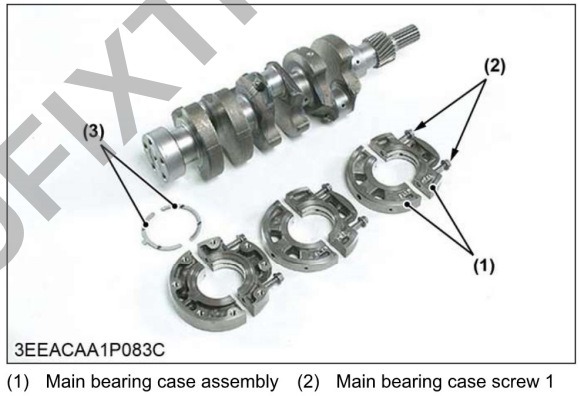
BX1880 and BX2380

Tightening torque	Main bearing case screw 2	27 to 30 N·m 2.8 to 3.0 kgf·m 20 to 22 lbf·ft

BX2680

Tightening torque	Main bearing case screw 2	49 to 53 N·m 5.0 to 5.4 kgf·m 37 to 39 lbf·ft

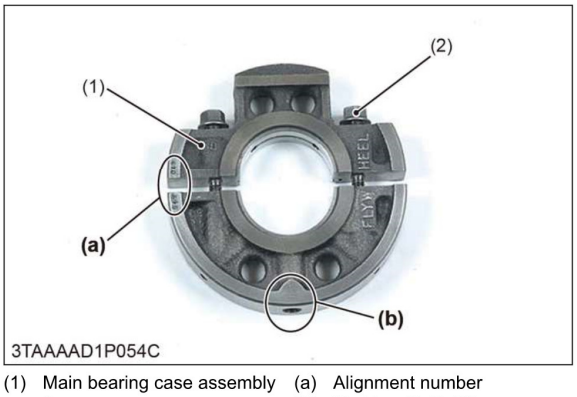
5.2.4.4 Removing main bearing case assembly



(1) Main bearing case assembly 1
(2) Main bearing case screw 1
(3) Thrust bearing

1. Remove the two main bearing case screws 1 (2) of each main bearing cases.
2. Remove the main bearing case from crankshaft.

(When reassembling)



(1) Main bearing case assembly 1
(2) Main bearing case screw 1
(a) Alignment number
(b) Marking (A, B, C)

- Clean the oil passage in the main bearing cases.

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5. FRONT AXLE

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