WSM

WORKSHOP MANUAL

TRACTOR,MOWER

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

Kubota

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CONTENTS

1. INFORMATION

SAFETY FIRST 1-1
1. Safety first 1-1
2. Before you start service 1-2
3. Start safely 1-2
4. Operate safely 1-2
5. Avoiding high pressure fluid 1-3
6. Avoiding hot exhaust 1-3
7. Cleaning exhaust filter 1-3
8. Prevent a fire 1-4
9. Keep a good airflow in the work area 1-4
10. Discard fluids correctly 1-4
11. Prevent acid burns 1-4
12. Preparing for emergencies 1-5
SAFETY LABEL 1-7
1. Safety labels for BX tractor 1-7
2. Safety labels for mower 1-12
2.1 Care of danger, warning and caution labels 1-14
SPECIFICATIONS 1-15
1. BX tractor specifications 1-15
2. Mower specifications (RCK60B-23BX, RCK54-23BX and RCK48-18BX) 1-17
3. Mower specifications (RCK60D-26BX and RCK54D-26BX) 1-18
TRAVELING SPEEDS 1-19
DIMENSIONS 1-21

2. GENERAL

IDENTIFICATION 2-1
1. Tractor identification 2-1
1.1 Checking serial number and hour meter 2-1
1.2 Cylinder number 2-2
2. Checking mower identification 2-2
GENERAL PRECAUTIONS 2-3
HANDLING PRECAUTIONS FOR ELECTRICAL PARTS AND WIRING 2-5
LUBRICANTS, FUEL AND COOLANT 2-7
1. BX tractor 2-7
1.1 Lubricants, fuel, and coolant 2-7
1.1.1 Fuel 2-8
1.1.2 Engine oil 2-8
1.1.3 Transmission oil 2-8
1.2 Overview of biodiesel fuel (BDF) 2-9
2. Mower 2-11
2.1 Lubricants 2-11
TIGHTENING TORQUES 2-13
1. General use screws, bolts and nuts 2-13
2. Stud bolts 2-13
3. Metric screws, bolts and nuts 2-14
4. American standard screws, bolts and nuts with UNC or UNF threads 2-14
5. Plugs 2-14
MAINTENANCE CHECK LIST 2-15
1. BX tractor service intervals 2-15
2. Mower service intervals 2-17
CHECK AND MAINTENANCE 2-19
1. Periodic service 2-19
1.1 Opening bonnet 2-19

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1.2 Daily check 2-19
1.2.1 Walk around inspection 2-19
1.2.2 Checking fuel gauge and refueling 2-19
1.2.3 Checking engine oil level 2-20
1.2.4 Checking transmission fluid level 2-20
1.2.5 Checking coolant level 2-21
1.2.6 Cleaning panel and radiator screen 2-21
1.2.7 Checking brake pedal 2-22
1.2.8 Checking gauges, meters, and Easy Checker™ 2-22
1.2.9 Checking head light, hazard light, and tail light 2-22
1.2.10 Checking seat belt and ROPS 2-22
1.2.11 Checking and cleaning electrical wiring and battery cables 2-22
1.2.12 Checking movable parts 2-23
1.3 Check points of initial 50 hours 2-23
1.3.1 Changing engine oil 2-23
1.3.2 Replacing engine oil filter 2-23
1.3.3 Replacing transmission oil filter 2-24
1.4 Check points of every 50 hours 2-24
1.4.1 Greasing 2-24
1.4.2 Checking engine start system 2-26
1.4.3 Checking operator presence control (OPC) system 2-26
1.4.4 Checking wheel bolt torque 2-26
1.4.5 Cleaning lock lever shaft 2-27
1.5 Check points of every 100 hours 2-27
1.5.1 Checking battery condition 2-27
1.5.2 Cleaning air cleaner element 2-28
1.5.3 Checking fuel filter 2-29
1.5.4 Adjusting fan belt tension 2-30
1.5.5 Adjusting HST neutral spring 2-30
1.5.6 Adjusting brake pedal 2-31
1.6 Check point of every 200 hours 2-31
1.6.1 Replacing engine oil filter 2-31
1.6.2 Changing engine oil 2-32
1.6.3 Replacing transmission oil filter 2-33
1.6.4 Adjusting toe-in 2-33
1.7 Check points of every 400 hours 2-33
1.7.1 Adjusting front axle pivot 2-33
1.7.2 Changing transmission fluid 2-34
1.7.3 Cleaning transmission strainer 2-35
1.7.4 Changing front axle case oil 2-35
1.7.5 Replacing fuel filter element 2-35
1.8 Check points of every 800 hours 2-36
1.8.1 Adjusting engine valve clearance 2-36
1.9 Check points of every 1000 hours or 1 year 2-36
1.9.1 Replacing air cleaner element 2-36
1.10 Check points of every 1500 hours 2-36
1.10.1 Checking injection pressure of fuel injection nozzle 2-36
1.11 Check points of every 2000 hours or 2 years 2-36
1.11.1 Flushing cooling system and changing coolant 2-36
1.11.2 Antifreeze 2-37
1.12 Check points of every 3000 hours 2-38
1.12.1 Checking injection pump 2-38
1.13 Check points of every 1 year 2-38
1.13.1 Checking intake air line 2-38
1.13.2 Checking radiator hoses and hose clamps 2-38
1.13.3 Checking power steering line 2-39
1.13.4 Checking fuel lines 2-39
1.13.5 Checking engine breather hose 2-40

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1.14 Check points of every 4 years 2-40
1.14.1 Replacing radiator hose 2-40
1.14.2 Replacing fuel hose 2-40
1.14.3 Replacing power steering hose 2-40
1.14.4 Replacing intake air line 2-40
1.14.5 Replacing engine breather hose 2-40
1.15 Service as required 2-41
1.15.1 Bleeding fuel system 2-41
1.15.2 Replacing fuse 2-41
1.15.3 Replacing light bulb 2-42
2. Mower 2-42
2.1 Check points of daily or each use 2-42
2.1.1 Retightening mower blade screw 2-42
2.1.2 Checking mower blade 2-42
2.1.3 Checking mower belt 2-43
2.1.4 Checking gear box oil level 2-43
2.1.5 Greasing spindle shafts, belt tension pivot and tension pulley 2-43
2.1.6 Greasing balance shaft 2-44
2.1.7 Greasing front and rear anti-scalp rollers 2-45
2.1.8 Greasing universal joint 2-45
2.2 Check points of initial 50 hours 2-45
2.2.1 Changing gear box oil 2-45
2.3 Check point of every 150 hours 2-46
2.3.1 Changing gear box oil 2-46
2.4 Check points of every 1 year 2-46
2.4.1 Checking gear box oil seal 2-46
2.5 Check point of every 4 years 2-46
2.5.1 Replacing gear box oil seal 2-46
TIRES, WHEELS, AND BALLAST 2-47
1. Tires 2-47
1.1 Inflation pressure of tires 2-47
1.2 Dual tires 2-47
2. Wheel tread 2-47
2.1 Front wheels 2-48
2.2 Rear wheels 2-48
3. Ballast 2-49
3.1 Front ballast 2-49
3.2 Rear ballast 2-49
IMPLEMENT LIMITATIONS 2-51
1. Weight of implements as rear ballast 2-51
2. Implement limitation tables 2-52
SPECIAL TOOLS 2-55
1. Special tools for engine 2-55
1.1 Special use puller set 2-55
1.2 Diesel engine compression tester (for injection nozzle) 2-55
1.3 Nozzle tester 2-55
1.4 Injection pump pressure tester 2-55
1.5 Valve guide replacing tool 2-56
1.6 Bushing replacing tool 2-57
1.7 Bushing replacing tool 2-58
1.8 Flywheel stopper 2-58
1.9 Crankshaft bearing 1 replacing tool 2-59
1.10 Governor gear holder busing replacing tool 2-59
2. Special tools for tractor 2-60
2.1 Tie-rod end lifter 2-60
2.2 Independent PTO clutch spring compression tool 2-60
2.3 Disassembling and assembling stand (1/2) 2-61
2.4 Disassembling and assembling stand (2/2) 2-63

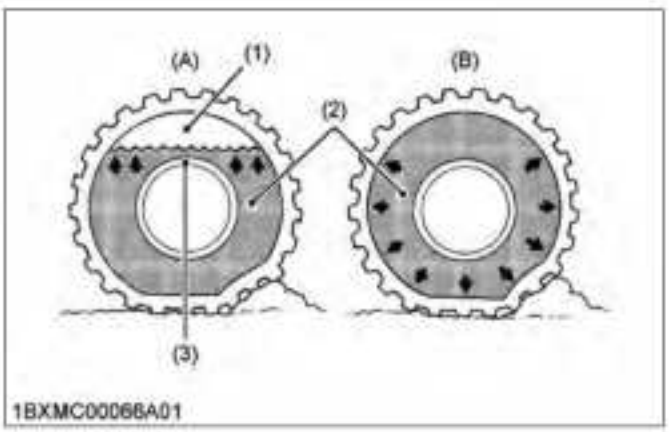
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Liquid weight per tire (75 percent filled)

Tire sizes	26×12.00-12 [BX2380 and BX2680]
Slush free at -10 °C (14 °F) Solid at -30 °C (-22 °F) [Approx. 1 kg (2 lbs.) $CaCl_2$ per 4 L (1 gal) of water]	45 kg (99 lbs.)
Slush free at -24 °C (-11 °F) Solid at -47 °C (-52 °F) [Approx. 1.5 kg (3.5 lbs.) $CaCl_2$ per 4 L (1 gal) of water]	50 kg (110 lbs.)
Slush free at -47 °C (-52 °F) Solid at -52 °C (-62 °F) [Approx. 2.25 kg (5 lbs.) $CaCl_2$ per 4 L (1 gal) of water]	56 kg (123 lbs.)

■ IMPORTANT

- **Do not fill tires with water or solution more than the correct percentage of full capacity as shown in the following table to the level of valve stem at 12 o'clock position.**



(1) Air
(2) Water
(3) Valve stem
(A) Correct
(B) Incorrect

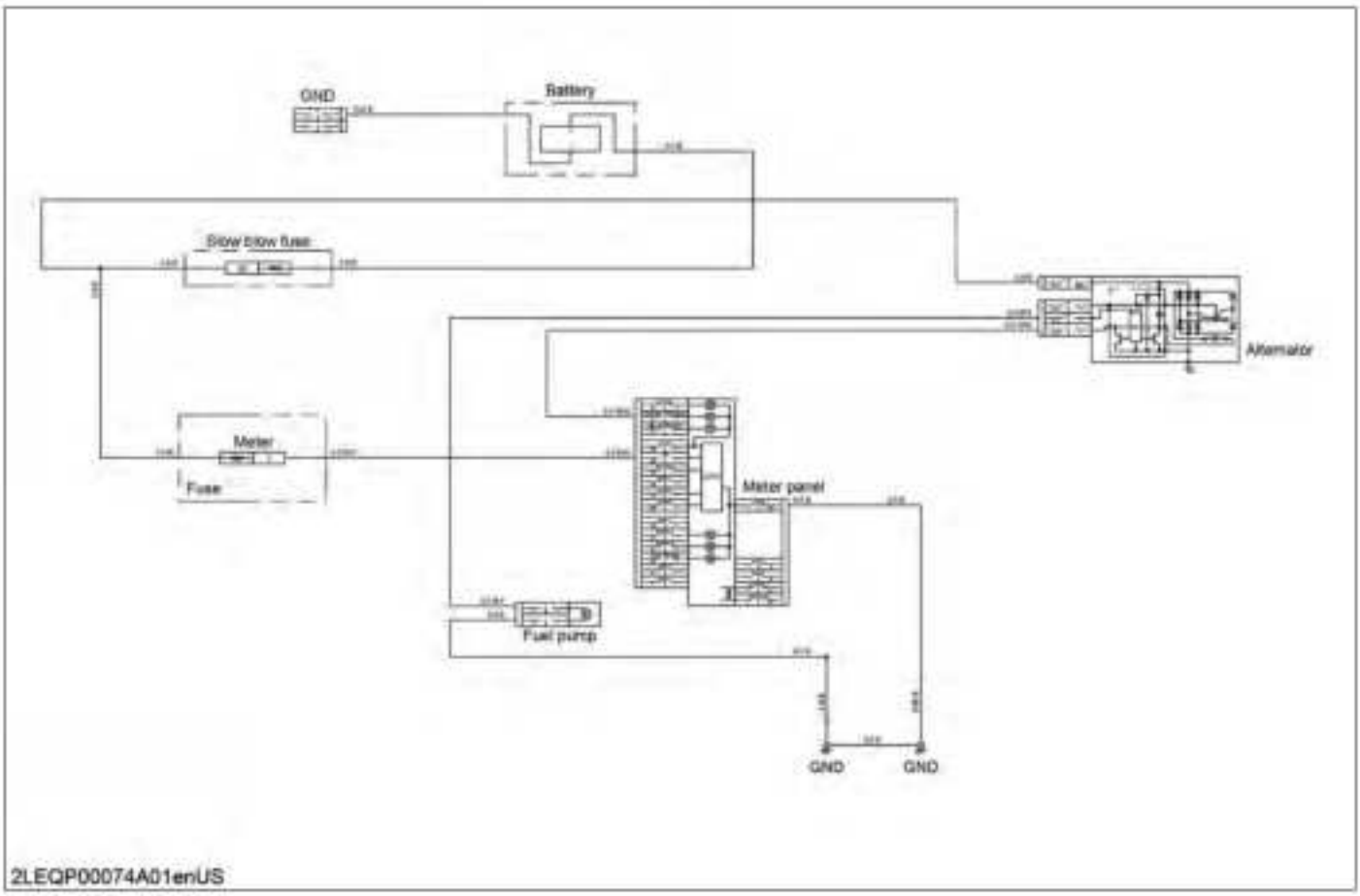
	Correct	Incorrect
Amount of water	75% of full capacity of tire	100% of full capacity of tire
Characteristic	Air compresses like a cushion.	Water cannot be compressed.

- **To avoid damage of the transmission, do not use the rear wheel weights and liquid ballast at the same time.**

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6. Charging system

6.1 Electrical circuit for charging system



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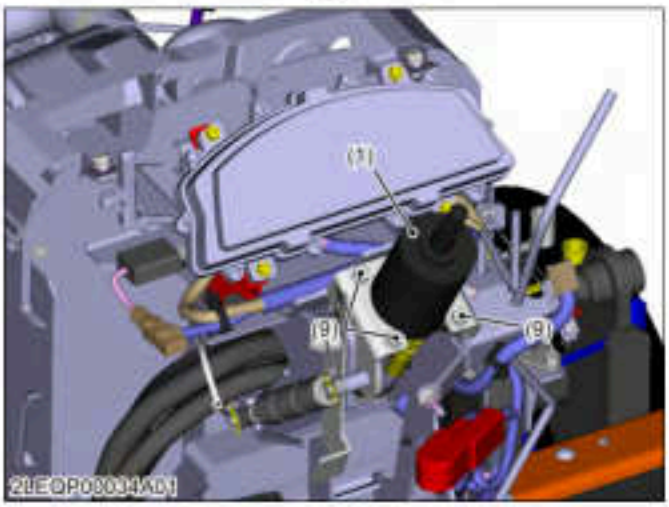
SERVICING

1. Troubleshooting for mower

Symptom	Probable cause and checking procedure	Solution	Reference page
Blade does not turn	1. Mid-PTO system malfunctioning	Check transmission	4-56
	2. Mower belt broken	Replace belt	9-19
Blade speed is slow	1. Mower belt loose	Replace belt or tension spring	9-19
	2. Grass clogged	Remove grass	—
	3. Cup washer flattened or worn out	Replace cup washer	9-20
	4. Engine RPM too low	Mow at full throttle, check and reset engine RPM	—
Cutting is poor	1. Mower blade worn or broken	Sharpen or replace mower blade	9-20
	2. Mower blade screw loose	Re tighten mower blade screw	9-20
	3. Cutting height improper	Adjust cutting height	9-15 to 9-18
	4. Ground speed too fast	Slow down	—
	5. Low tire pressure	Add air to correct	2-47
	6. Anti-scalp rollers not adjusted correctly	Adjust anti-scalp rollers	9-18
Mower is not lifted	1. Linkage system broken	Replace linkage system	9-14
	2. Trouble of hydraulic system	Check hydraulic system	—

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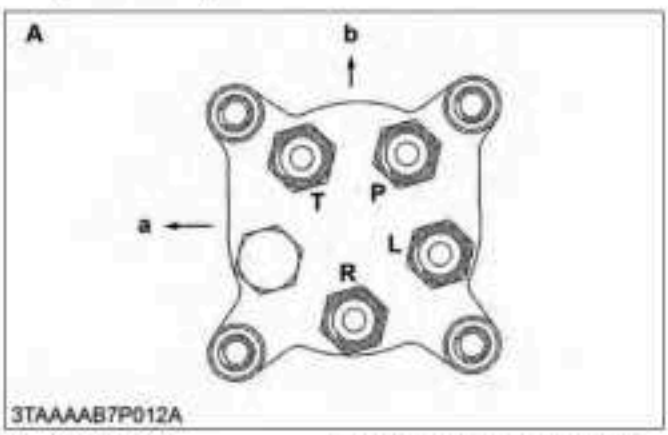
2. Remove the steering controller mounting screws (9) and remove the steering controller.



(1) Steering controller (9) Screw

(When reassembling)

- Be sure to connect the power steering hoses to their original position, and tighten them to the specified torque.



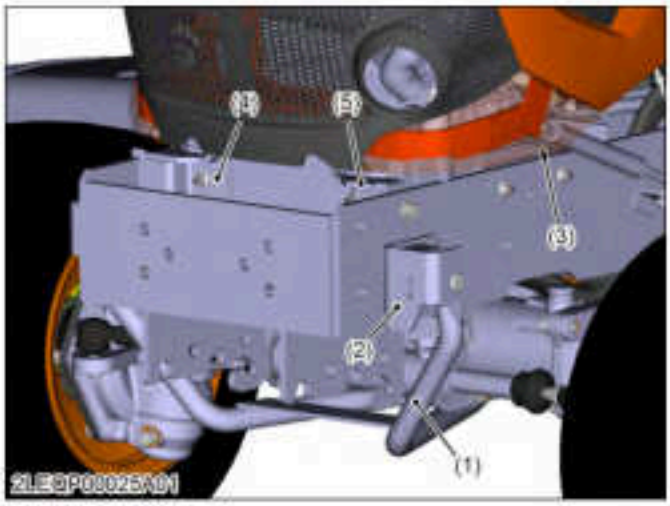
A: Bottom view
P: Pump port (Connect to delivery hose)
T: Tank port (Connect to return hose)
L: L port (Connect to cylinder L.H. hose)
R: R port (Connect to cylinder R.H. hose)
a: Right
b: Front

Tightening torque	Power steering hose	24 to 27 N·m 2.4 to 2.8 kgf·m 18 to 20 lbf·ft

5.3 Separating power steering cylinder

5.3.1 Removing bonnet

1. Remove the mower deck.
2. Remove the front link (1) and link brackets (2).



(1) Front link
(2) Front link bracket
(3) Bonnet guide rod
(4) L.H. bonnet bracket
(5) R.H. bonnet bracket

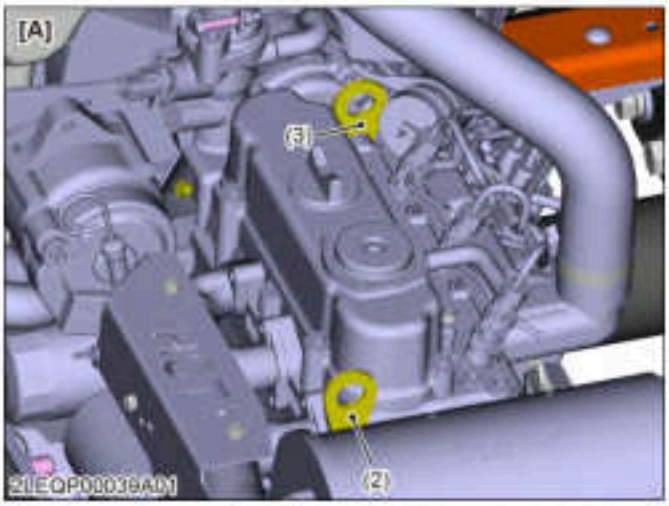
3. Open the bonnet.
4. Disconnect the headlight harness from the headlights and bonnet.
5. Disconnect the bonnet guide rod (3) from the bonnet.
6. Disconnect the L.H. and R.H. bonnet brackets (4), (5) from the frame.
7. Remove the bonnet (6).

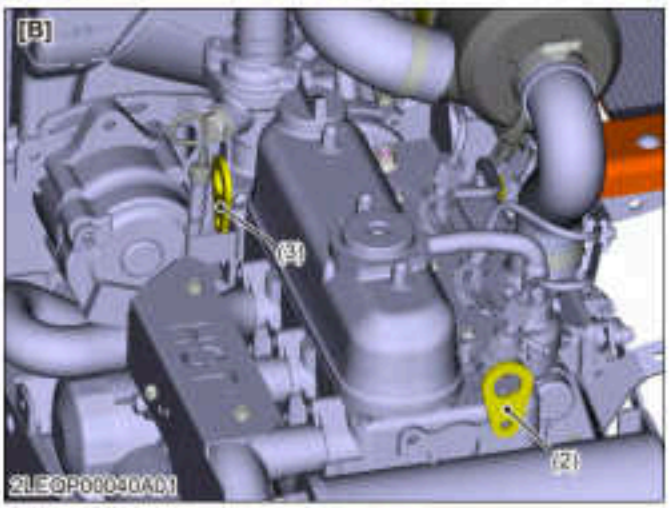


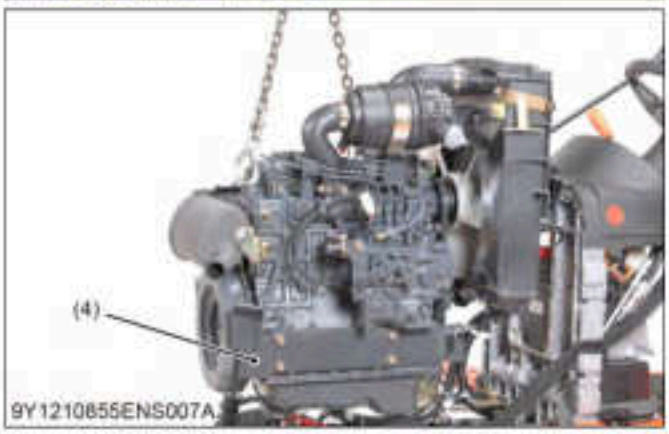
(6) Bonnet

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2. Securely attach the lifting chain to the engine hooks (2), (3) and separate the engine assembly with the radiator from the frame.







(2) Front engine hook
(3) Rear engine hook
(4) Engine support
[A] BX2380 and BX1880
[B] BX2680

3. Remove the L.H. and R.H. engine supports (4).

(When reassembling)

Tightening torque	Engine mounting nut	24 to 27 N·m 2.4 to 2.8 kgf·m 18 to 20 lbf·ft
	Cushion mounting nut	24 to 27 N·m 2.4 to 2.8 kgf·m 18 to 20 lbf·ft
	Engine support mounting screw	48 to 55 N·m 4.9 to 5.7 kgf·m 36 to 41 lbf·ft

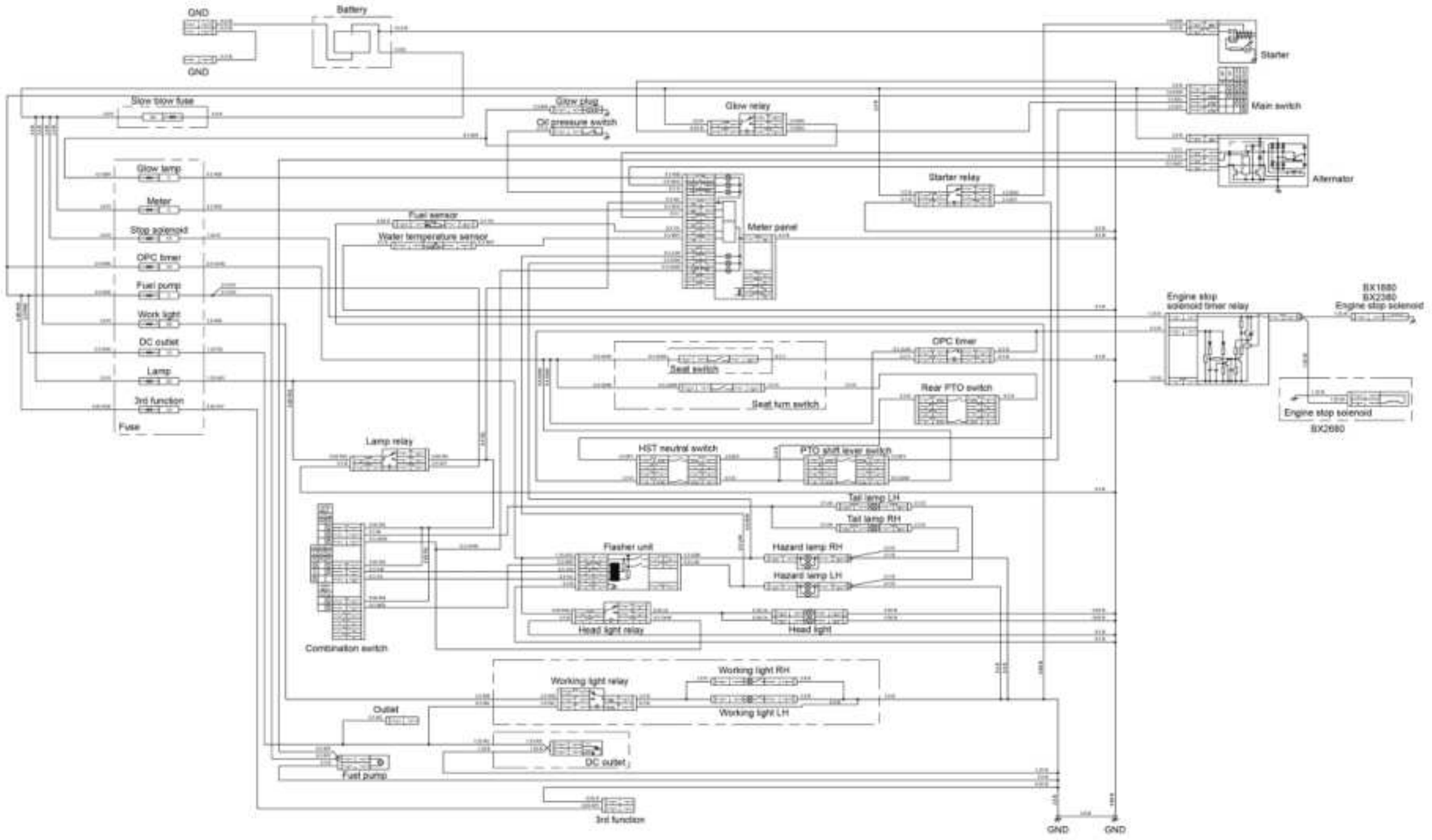
5.1.9 Draining coolant and removing outer engine parts

⚠ CAUTION

- **Never open the radiator cap while operating or immediately after stopping. Otherwise, hot water will spout out from the radiator. Wait for more than ten minutes to cool the radiator, before opening the cap.**

1. Connect the engine stands (9) to the crankcase.
2. Open the radiator drain plug, and remove radiator cap to completely drain the coolant.
3. After all coolant is drained, close the drain plug.
4. Loosen the inlet hose band and the radiator hose bands, and remove the radiator (1) with the radiator hoses (2) and the air cleaner (3).
5. Loosen the fan belt. Remove the alternator (6), the starter motor (8), the fan and the fan belt.

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