WSM

WORKSHOP MANUAL
TRACTOR

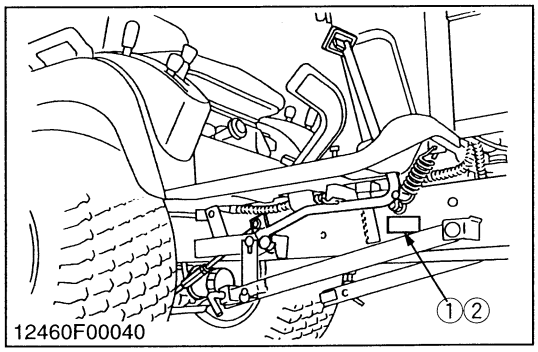
BX1800・BX2200

Kubota

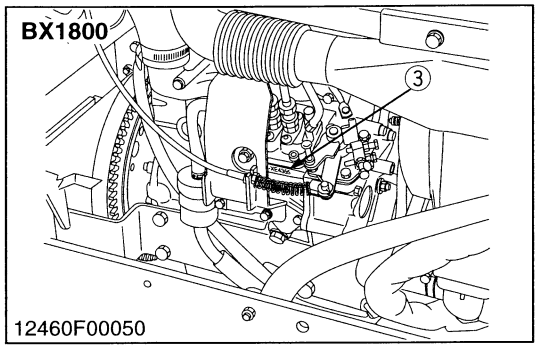
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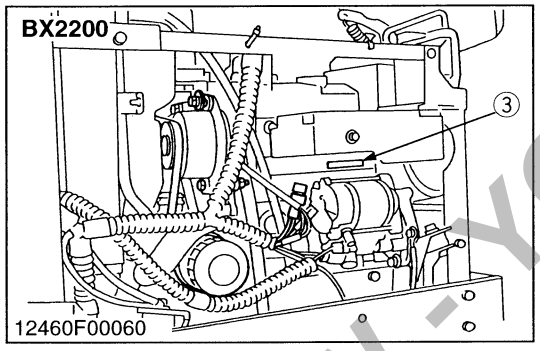
[1] TRACTOR IDENTIFICATION



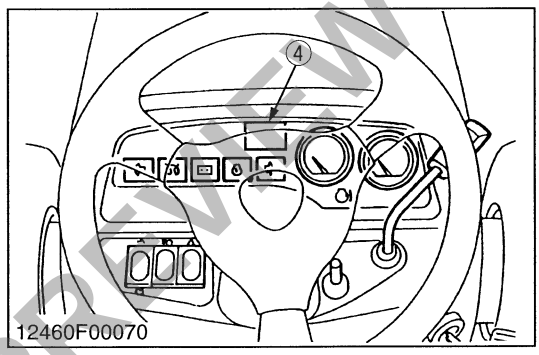
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12460F00050



12460F00060



12460F00070

When contacting your local KUBOTA distributor, always specify engine serial number, tractor serial number and hour meter reading.

(1) Tractor Identification Plate
(2) Tractor Serial Number
(3) Engine Serial Number
(4) Hour Meter

12460G00010

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TRAVELLING SPEED

(At rated engine rpm)

Model		BX1800, BX2200	
Tire size (Rear)		26 × 12.00 – 12	
	Range gear shift lever	km/h	mph
Forward	Low	0 to 5.9	0 to 3.7
	High	0 to 13.0	0 to 8.1
Reverse	Low	0 to 4.5	0 to 2.8
	High	0 to 10.0	0 to 6.2

The company reserves the right to change the specifications without notice.

12460Z00050

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[6] MAINTENANCE CHECK LIST

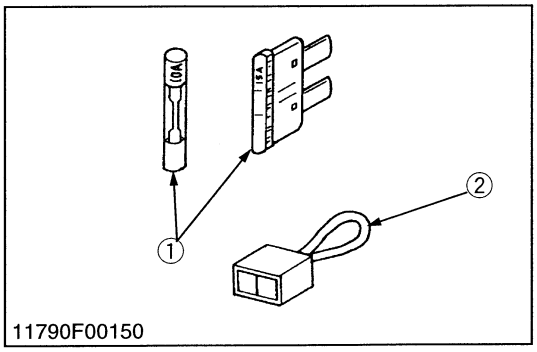
No.	Item \ Period		Indication on hour meter																	After purchase		Important		Reference page
			50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	1500	3000	1 year	2 years		
1	Engine oil	Change	★	☆		☆		☆		☆		☆		☆		☆		☆							G-12
2	Engine oil filter	Replace	★			☆				☆				☆				☆							G-12
3	Transmission oil filter	Replace	★					☆						☆											G-13
4	Transmission fluid	Change	★					☆						☆											G-13
5	Transmission strainer	Clean						☆						☆											G-22
6	Front axle case oil	Change						☆						☆											G-22
7	Front axle pivot	Adjust								☆								☆							G-22
8	Engine start system	Check	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆							G-14
9	Greasing	–	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆							G-14
10	Wheel bolt torque	Check	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆							G-15
11	Battery condition	Check		☆		☆		☆		☆		☆		☆		☆		☆					*4		G-15
12	Air cleaner element	Clean		☆		☆		☆		☆		☆		☆		☆		☆					*1	@	G-17
		Replace																			☆		*2		G-17
13	Fuel filter element	Check		☆		☆		☆		☆		☆		☆		☆		☆						@	G-18
		Replace										☆													G-23
14	Fan belt	Adjust		☆		☆		☆		☆		☆		☆		☆		☆							G-18
15	HST neutral spring	Adjust		☆		☆		☆		☆		☆		☆		☆		☆							G-19
16	Brake	Adjust		☆		☆		☆		☆		☆		☆		☆		☆							G-19
17	Radiator hose and clamp	Check				☆				☆				☆				☆							G-20
		Replace																				☆			G-20
18	Power steering oil line	Check				☆				☆				☆				☆							G-20
		Replace																				☆			G-20
19	Fuel line	Check		☆		☆		☆		☆		☆		☆		☆		☆						@	G-18
		Replace																				☆			G-18
20	Intake air line	Check				☆				☆				☆				☆							G-21
		Replace																				☆	*3		G-21
21	Toe-in	Adjust				☆				☆				☆				☆							G-21
22	Engine valve clearance	Adjust																☆							1-S22
23	Fuel injection nozzle injection pressure	Check																	☆	☆				@	1-S68
24	Injection pump	Check																		☆				@	1-S67
25	Cooling system	Flush																				☆			G-25
26	Coolant	Change																				☆			G-25

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(3) Fuse



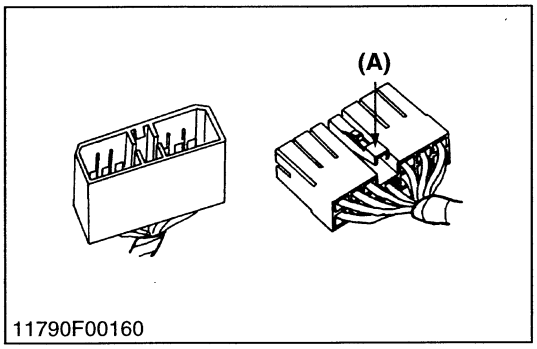
11790F00150

- Use fuses with specified capacity.
  Neither too large or small capacity fuse is acceptable.
- Never use steel or copper wire in place of fuse.
- Do not install working light, radio set, etc. on machine which is not provided with reserve power supply.
- Do not install accessories if fuse capacity of reserve power supply is exceeded.

(1) Fuse (2) Fusible Link

11790G00140

(4) Connector

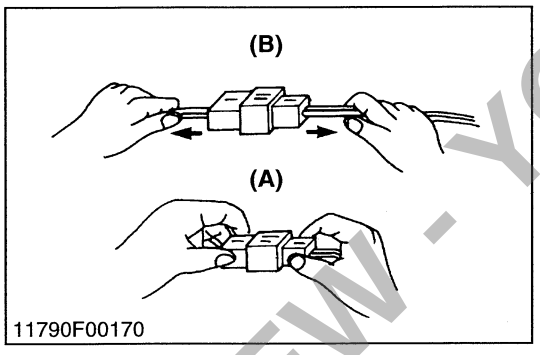


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- For connector with lock, push lock to separate.

(A) Push

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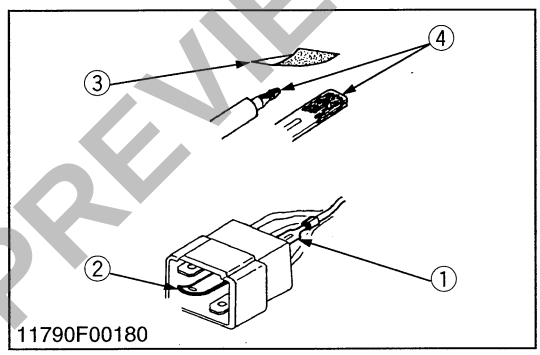


11790F00170

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

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

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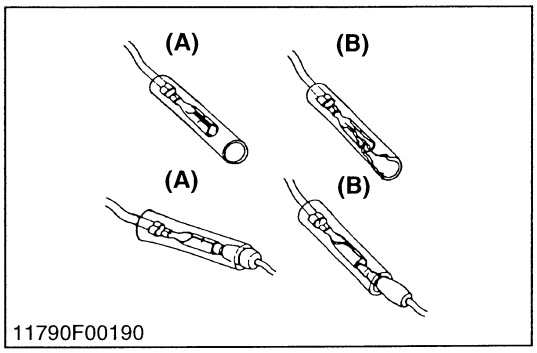
- Use sandpaper to remove rust from terminals.
- Repair deformed terminal. Make certain there is no terminal being exposed or displaced.

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

11790G00170

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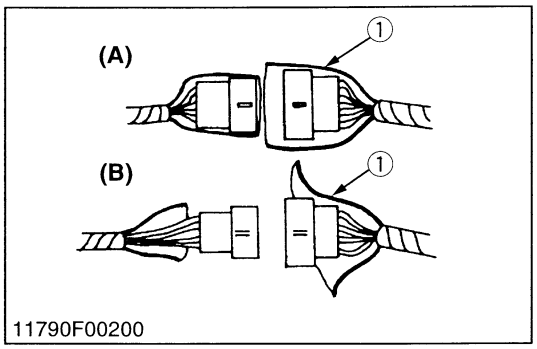


11790F00190

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

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

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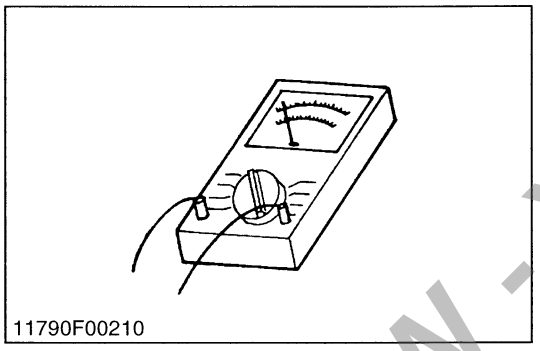
11790F00200

- Make certain plastic cover is large enough to cover whole connector.

(1) Cover **(A) Correct** **(B) Incorrect**

11790G00190

(5) Handling of Circuit Tester


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- Use tester correctly following manual provided with tester.
- Check for polarity and range.

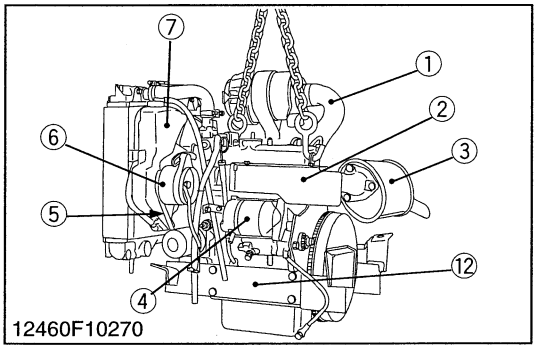
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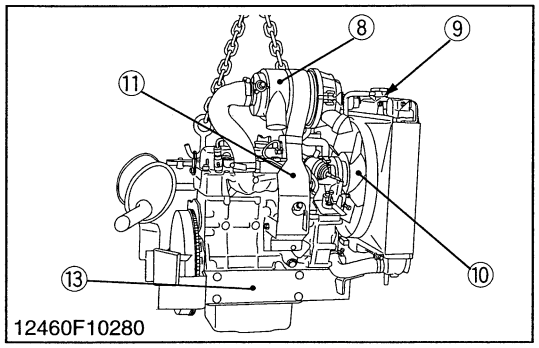
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DISASSEMBLING AND ASSEMBLING

(1) Cylinder Head and Valves



12460F10270



12460F10280

Alternator, Fan Belt and Muffler

1. Disconnect the radiator hoses and separate the radiator (9) with recovery tank (7) from engine assembly.
2. Remove the cooling fan (10) and fan pulley.
3. Remove the alternator (6) and fan belt (5).
4. Remove the muffler cover (2) and muffler (3).
5. Remove the starter (4).
6. Disconnect the inlet pipe (1), air cleaner (8) and air cleaner stay (11).
7. Remove the wire bracket.
8. Remove the engine support LH (12) and RH (13).

(When reassembling)

- Check to see that there are no cracks on the belt surface.

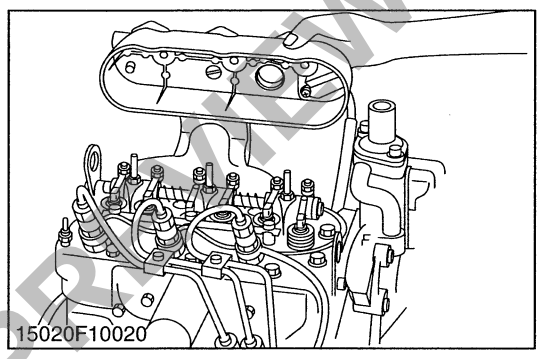
■ IMPORTANT

- **After reassembling the fan belt, be sure to adjust the fan belt tension.**

Tightening torque	Air cleaner stay nut	D722	23.5 to 27.5 N·m 2.4 to 2.8 kgf·m 17.4 to 20.3 ft-lbs
		D905	48.1 to 55.9 N·m 4.9 to 4.7kgf·m 35.4 to 41.2 ft-lbs
	Engine support screw		48.1 to 55.9 N·m 4.9 to 4.7kgf·m 35.4 to 41.2 ft-lbs

(1) Inlet Pipe
(2) Muffler Cover
(3) Muffler
(4) Starter
(5) Fan Belt
(6) Alternator
(7) Recovery Tank
(8) Air Cleaner
(9) Radiator
(10) Cooling Fan
(11) Air Cleaner Stay
(12) Engine Support LH
(13) Engine Support RH

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Cylinder Head Cover

1. Remove the head cover cap nuts.
2. Remove the cylinder head cover.

(When reassembling)

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

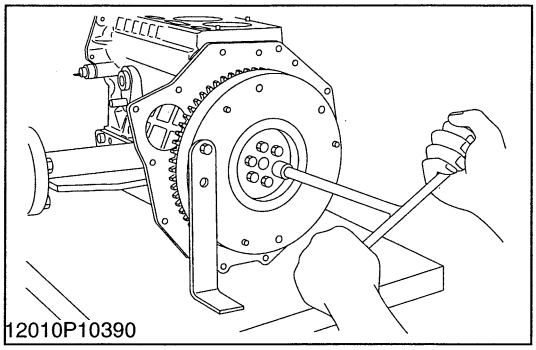
Tightening torque	Cylinder head cover cap nut	D722	3.9 to 5.9 N·m 0.4 to 0.6 kgf·m 2.9 to 4.3 ft-lbs
		D905	6.9 to 8.8 N·m 0.7 to 0.9 kgf·m 5.1 to 6.5 ft-lbs

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(4) Crankshaft


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Flywheel

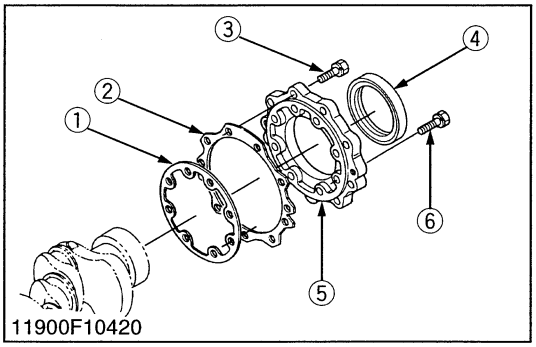
1. Fit the stopper to the flywheel.
2. Remove the flywheel screws and then remove the flywheel.

(When reassembling)

- Fit the flywheel giving care to the position of the knock pin.
- Apply engine oil to the threads and the undercut surface of the flywheel bolt and fit the bolt.

Tightening torque	Flywheel screw	53.9 to 58.8 N·m 5.5 to 6.0 kgf·m 39.8 to 43.4 ft-lbs

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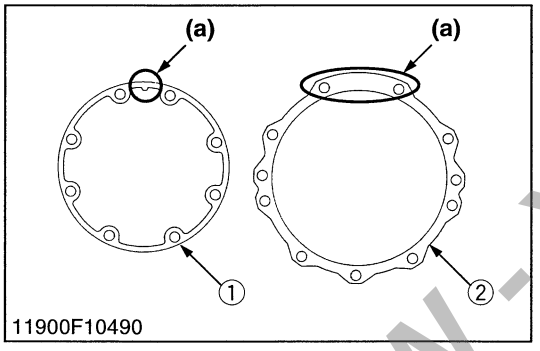
Bearing Case Cover

1. Remove the bearing case cover mounting screws. First, remove inside screws (6) and then outside screws (3).
2. Screw two removed screws into the screw hole of bearing case cover (5) to remove it.

(When reassembling)

- Fit the bearing case gasket (1) and the bearing case cover gasket (2) with correct directions.
- Install the bearing case cover to position the casting mark **"UP"** on it upward.
- Apply engine oil to the oil seal lip and take care 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	9.8 to 11.3 N·m 1.00 to 1.15 kgf·m 7.2 to 8.3 ft-lbs



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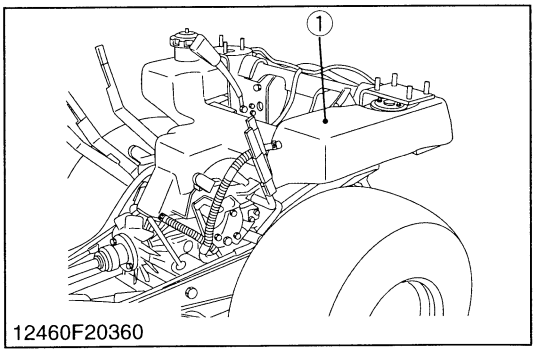
(1) Bearing Case Gasket
(2) Bearing Case Cover Gasket
(3) Bearing Case Cover Mounting Screw
(4) Oil Seal
(5) Bearing Case Cover
(6) Bearing Case Cover Mounting Screw

(a) Upside

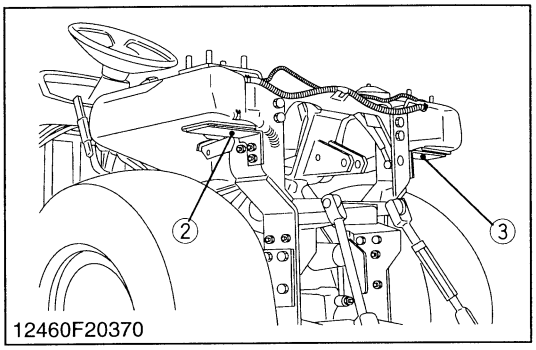
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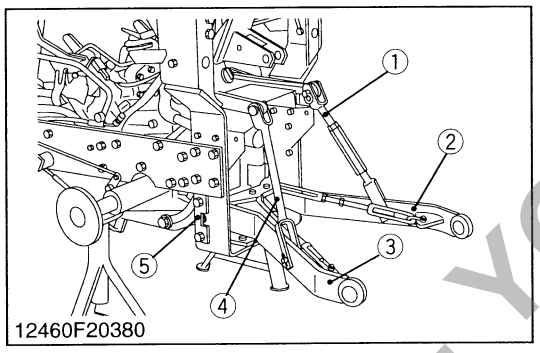
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12460F20360



12460F20370



12460F20380

Fuel Tank

1. Drain the fuel.
2. Disconnect the lead wire from fuel level sensor and fuel hoses from the fuel tank (1).
3. Remove the fuel tank stays (2), (3) and cushions, then remove the fuel tank (1).

(When reassembling)

Tightening torque	Fuel tank stay mounting bolt and nut	48.1 to 55.9 N·m 4.9 to 5.7 kgf·m 35.4 to 41.2 ft-lbs

(1) Fuel Tank
(2) Fuel Tank Stay LH
(3) Fuel Tank Stay RH

12460S20210

Lift Rod and Lower Link

1. Remove the lift rods (1) and (4).
2. Remove the stopper plate LH (5), then tap out the lower link pin to remove the lower links (2), (3) with check chains as a unit.

(When reassembling)

Tightening torque	Stopper plate mounting bolt and nut	77.5 to 90.2 N·m 7.9 to 9.2 kgf·m 57.1 to 66.5 ft-lbs

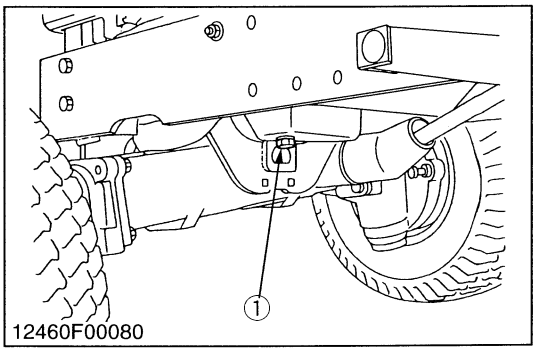
(1) Lift Rod RH
(2) Lower Link RH
(3) Lower Link LH
(4) Lift Rod LH
(5) Stopper Plate

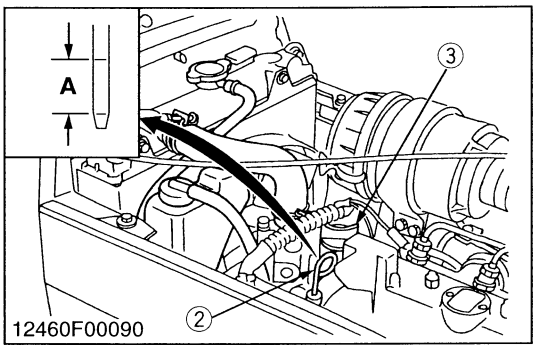
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(2) Check Points of Initial 50 Hours





Changing Engine Oil

CAUTION

- **Be sure to stop the engine before changing engine oil .**

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).

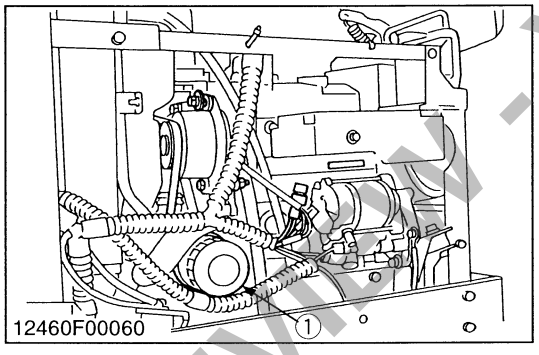
IMPORTANT

- **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-7.)**

Engine oil capacity	BX1800	1.9 L 2.01 U.S.qts 1.67 Imp.qts
	BX2200	2.5 L 2.64 U.S.qts 2.20 Imp.qts

(1) Drain Plug
(2) Dipstick
(3) Oil Inlet
(A) Oil level is acceptable within this range.

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Replacing Engine Oil Filter Cartridge

CAUTION

- **Be sure to stop the engine before changing oil filter cartridge.**

1. Remove the oil filter cartridge with the filter wrench.
2. Apply a slight coat of oil onto the cartridge gasket.
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

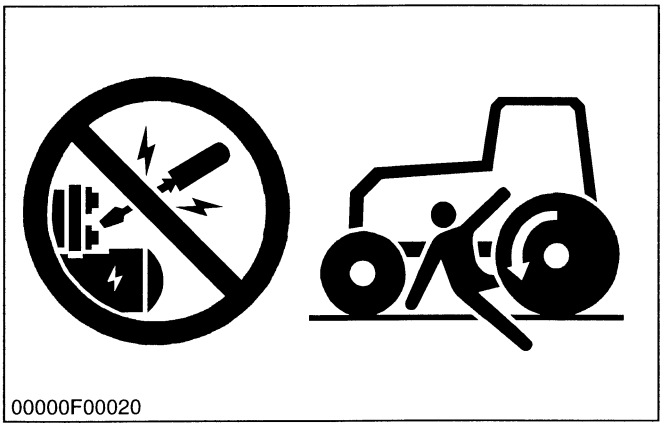
- **To prevent serious damage to the engine, replacement element must be highly efficient. Use only a KUBOTA genuine filter or its equivalent.**

(1) Engine Oil Filter Cartridge

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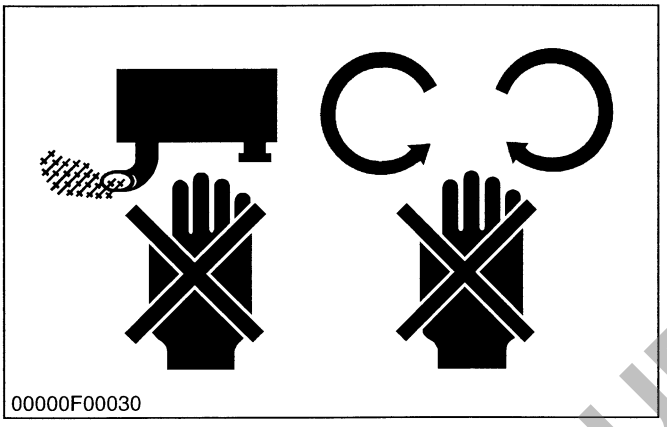
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SAFETY STARTING

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

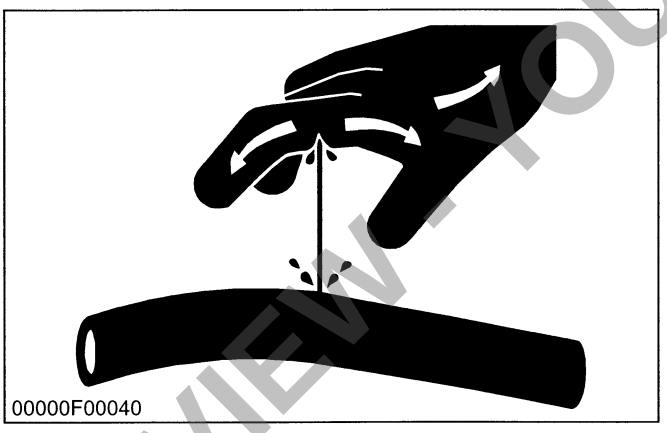
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SAFETY WORKING

(1) Do not work on the machine while under the influence of alcohol, medication, or other substances or while fatigued.
(2) Wear close fitting clothing and safety equipment appropriate to the job.
(3) Use tools appropriate to the work. Makeshift tools, parts, and procedures are not recommended.
(4) When servicing is performed together by two or more persons, take care to perform all work safely.
(5) Do not work under the machine that is supported solely by a jack. Always support the machine by safety stands.
(6) Do not touch the rotating or hot parts while the engine is running.
(7) 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.
(8) 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.

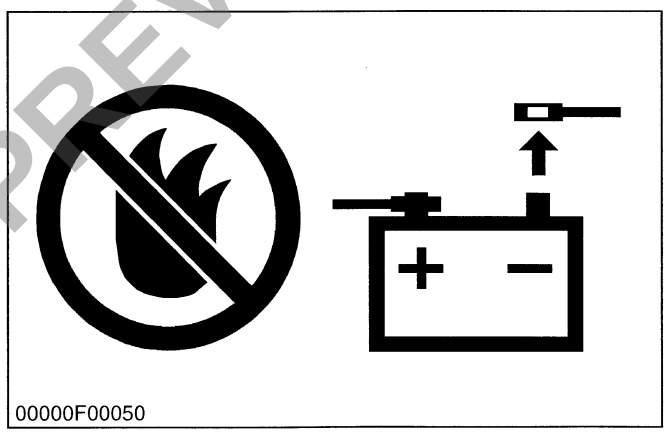
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AVOID FIRES

(1) Fuel is extremely flammable and explosive under certain conditions. Do not smoke or allow flames or sparks in your working area.
(2) To avoid sparks from an accidental short circuit, always disconnect the battery negative cable first and connect it last.
(3) Battery gas can explode. Keep sparks and open flame away from the top of battery, especially when charging the battery.
(4) Make sure that no fuel has been spilled on the engine.

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2 TRANSAXLE

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