Kubota

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KUBOTA Corporation

English (Australia)
Code No. 3Y206-9971-1

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M100GX·M110GX·M126GX·M135GX

OPERATOR'S MANUAL

KUBOTA TRACTOR

MODELS M100GX·M110GX M126GX·M135GX



1AGAIJPAP001A

READ AND SAVE THIS MANUAL

PRINTED IN JAPAN

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Kubota

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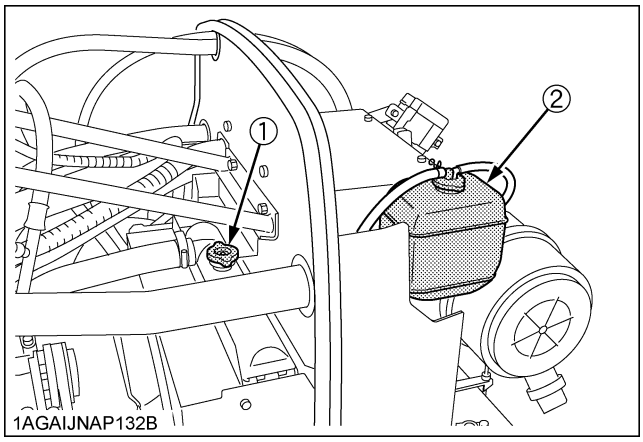
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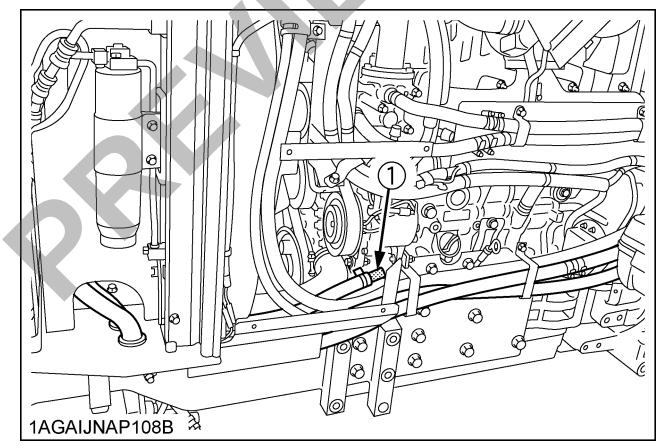


(1) Radiator cap
(2) Recovery tank

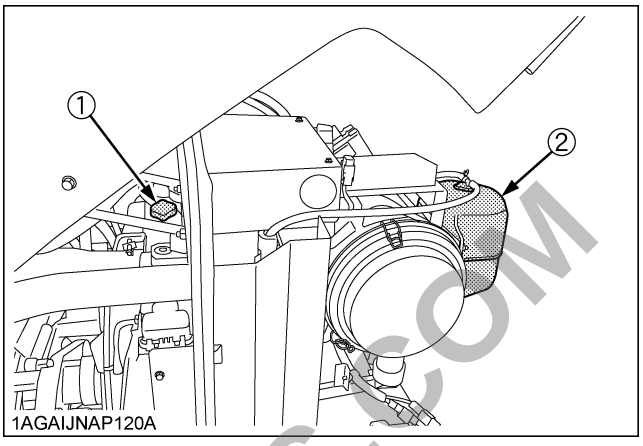
[M126GX, M135GX]

1. Stop the engine and let it cool down.
2. To drain the coolant, remove the radiator drain plug and the radiator cap. The radiator cap must be removed to completely drain the coolant.
3. After all coolant is drained, install the drain plug securely.
4. Fill with clean soft water and cooling system cleaner.
5. Follow directions of the cleaner instruction.
6. After flushing, fill with clean soft water and anti-freeze until the coolant level is just below the port.
7. Fill with clean water and anti-freeze up to the upper line of recovery tank.
8. Install the radiator cap securely.
9. Start and operate the engine for a few minutes.
10. Stop the engine. Check coolant level and add coolant if necessary.
11. Properly dispose of used coolant.

Coolant capacity	14.6 L



(1) Drain plug



(1) Radiator cap
(2) Recovery tank

IMPORTANT :

- Do not start engine without coolant.
- Use clean, fresh soft water and anti-freeze to fill the radiator and recovery tank.
- When mixing the anti-freeze with water, the anti-freeze mixing ratio is 50 %.
- Securely tighten radiator cap. If the cap is loose or improperly fitted, water may leak out and the engine could overheat.

NOTE :

- On cab type machines, coolant circulates through the heater. This means that one more liter or so of coolant is required.
  In changing coolant, pour coolant up to the filler port of the recovery tank. Turn ON the heater (shift the temperature control lever toward WARM), and run the engine for a while in order to warm coolant. Then stop the engine.
  When coolant has cooled down, some of the coolant in the recovery tank is sucked. Now the recovery tank is appropriately filled with coolant.

■Anti-Freeze

CAUTION

To avoid personal injury:

- **When using antifreeze, put on some protection such as rubber gloves (Antifreeze contains poison.).**
- **If should drink antifreeze, throw up at once and take medical attention.**
- **When antifreeze comes in contact with the skin or clothing, wash it off immediately.**
- **Do not mix different types of Antifreeze. The mixture can produce chemical reaction causing harmful substances.**
- **Antifreeze is extremely flammable and explosive under certain conditions. Keep fire and children away from antifreeze.**

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⚠ SAFE OPERATION

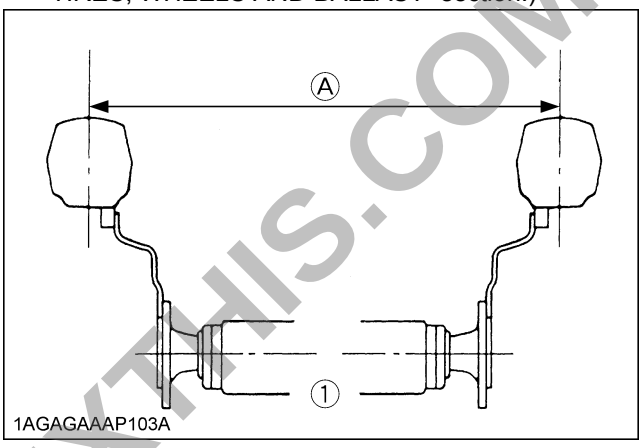
Careful operation is your best insurance against an accident.

Read and understand this manual carefully before operating the tractor.

All operators, no matter how much experience they may have, should read this and other related manuals before operating the tractor or any implement attached to it. It is the owner's obligation to instruct all operators in safe operation.

1. BEFORE OPERATING THE TRACTOR

1. Know your equipment and its limitations. Read this entire manual before attempting to start and operate the tractor.
2. Pay special attention to the danger, warning and caution labels on the tractor.
3. Do not operate tractor or any implement attached to it while under the influence of alcohol, medication, controlled substances or while fatigued.
4. Before allowing other people to use your tractor, explain how to operate and have them read this manual before operation.
5. Never wear loose, torn, or bulky clothing around tractor. It may catch on moving parts or controls, leading to the risk of an accident. Use additional safety items, e.g. hard hat, safety boots or shoes, eye and hearing protection, gloves, etc., as appropriate or required.
6. Do not allow passengers to ride on any part of the tractor at anytime. The operator must remain in the tractor seat during operation.
7. Check brakes, clutch, linkage pins and other mechanical parts for improper adjustment and wear. Replace worn or damaged parts promptly. Check the tightness of all nuts and bolts regularly. (For further details, see "MAINTENANCE" section.)
8. Keep your tractor clean. Dirt, grease, and trash build up may contribute to fires and lead to personal injury.
9. Use only implements meeting the specifications listed under "IMPLEMENT LIMITATIONS" in this manual or implements approved by KUBOTA.
10. Use proper weights on the front or rear of the tractor to reduce the risk of upsets. When using the front loader, put an implement or ballast on the 3-point hitch to improve stability. Follow the safe operating procedures specified in the implement or attachment manual.
11. The narrower the tread, the greater the risk of a tractor upset. For maximum stability, adjust the wheels to the widest practical tread width for your application. (See "TIRES, WHEELS AND BALLAST" section.)



(1) Rear wheels *(A) Tread Width*

12. Do not modify the tractor. Unauthorized modification may affect the function of the tractor, which may result in personal injury.

◆ **CAB, ROPS**

1. KUBOTA recommends the use of a CAB or Roll Over Protective Structures (ROPS) and seat belt in almost all applications. This combination will reduce the risk of serious injury or death, should the tractor be upset. Check for overhead clearance which may interfere with a CAB or ROPS.
2. If the CAB or ROPS is loosened or removed for any reason, make sure that all parts are reinstalled correctly before operating the tractor.
3. Never modify or repair any structural member of a CAB or ROPS because welding, bending, drilling, grinding, or cutting may weaken the structure.
4. A damaged CAB or ROPS structure must be replaced, not repaired or revised.
5. If any structural member of the CAB or ROPS is damaged, replace the entire structure at your local KUBOTA Dealer.
6. Always use the seat belt if the tractor has a CAB or ROPS. Do not use the seat belt if there is no CAB or ROPS. Check the seat belt regularly and replace if frayed or damaged.

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SPECIFICATIONS

SPECIFICATION TABLE

Model				M100GX	M110GX	M126GX	M135GX
				4WD			
Engine	Model			V3800-TI-CRS		V6108-TI-CRS	
	Type			Common rail system, Direct Injection, with turbocharger, water-cooled 4 cycle diesel			
	Number of cylinders			4			
	Total displacement		cm^3	3769		6124	
	Bore and stroke		mm	100 x 120		118 x 140	
	Rated revolution		rpm	2600		2200	
	Low idling revolution		rpm	800 to 850			
	Net power *1		kW (HP)	74.6 (100)	81.7 (109.5)	93.2 (125)	100.7 (135)
	PTO power *1 (factory observed)		kW (HP) / rpm	64.1 (86) / 2600	71.6 (96) / 2600	80.6 (108) / 2200	88.0 (118) / 2200
	Battery capacity			12V, 100Ah at 20hours, 900CCA		12V, 160Ah at 20hours, 1090CCA	
	Fuel tank capacity		L	190			
	Engine oil capacity		L	10.5		14.6	
	Coolant capacity		L	9.6		14.6	
Dimensions	Overall length		mm	4245		4400	4400 <4390>
	Overall width (minimum tread)		mm	2100		2130	
	Overall height		mm	2810		2885	
	Wheel base		mm	2435		2690	2690 <2680>
	Tread	Front	mm	1430/1530	1555/1655	1620 to 1740	
		Rear	mm	1530 to 2035		1590 to 2085	
	Crop clearance		mm	560	590	615	
Weight			kg	4100		4640	4640 <4840>
Traveling system	Standard tire size	Front tires		340/85R24		420/70R24	
		Rear tires		480/70R34		520/70R38	
	Clutch			Multiple wet disc, Electronic Hydraulically operated			
	Steering			Hydrostatic Power Steering			
	Braking system			Hydraulically operated wet disk			
	Differential			Bevel gears with differential lock (Front, Rear)			

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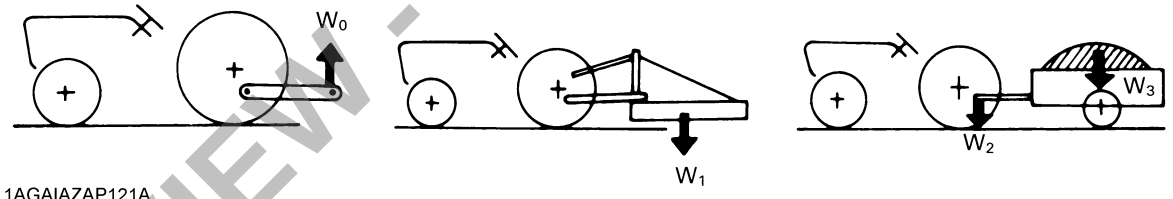
IMPLEMENT LIMITATIONS

The KUBOTA Tractor has been thoroughly tested for proper performance with implements sold or approved by KUBOTA. Use with implements which are not sold or approved by KUBOTA and which exceed the maximum specifications listed below, or which are otherwise unfit for use with the KUBOTA Tractor may result in malfunctions or failures of the tractor, damage to other property and injury to the operator or others. [Any malfunctions or failures of the tractor resulting from use with improper implements are not covered by the warranty.]

	Tread (max. width)		Operating condition	Lower link end max. lifting capacity W 0
	Front	Rear		
M100GX	1530 mm	2035 mm	IMPORTANT ● Tractor with front spacer option is not approved for use with front loader.	5000 kg
M110GX	1655 mm			
M126GX M135GX	1740 mm	2085 mm		6100 kg

Actual figures		
Implement weight W 1 and / or size	Max. Drawbar Load W 2	Trailer loading weight W 3 Max. capacity
As in the following list (Shown on the next page)	1500 kg (3300 lbs.)	7000 kg (15400 lbs.)
		8000 kg (17600 lbs.)

Lower link end max,
hydraulic lifting capacity..... W 0
Implement weight.....The implement's weight which can be put on the lower link: W 1
Max. drawbar load.....W 2
Trailer loading weight.....The max. loading weight for trailer (without trailer's weight): W 3



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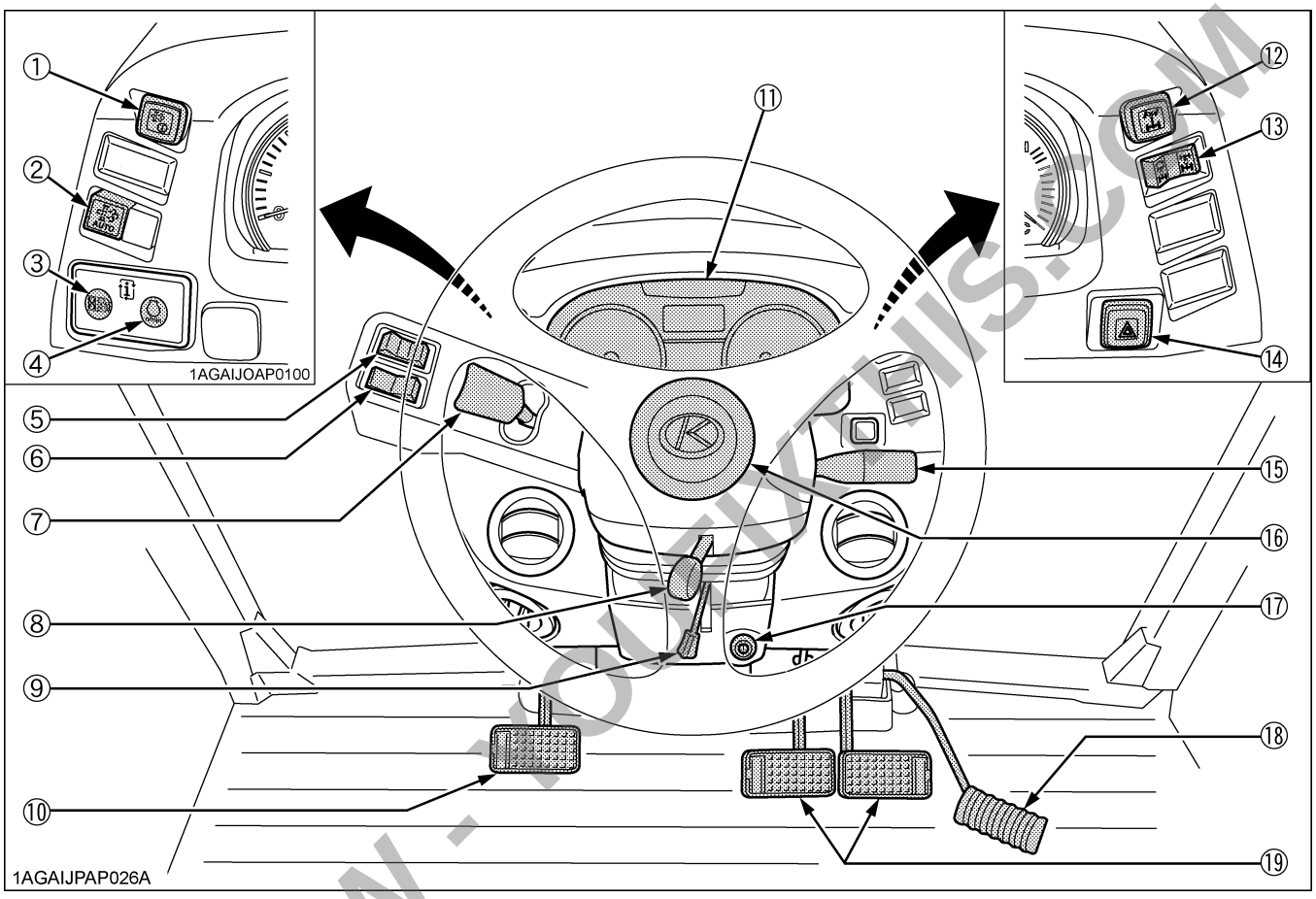
NOTE :
- Implement size may vary depending on soil operating conditions.
- Strictly follow the instructions outlined in the operator's manual of the mounted or trailed machinery or trailer, and do not operate the combination tractor - machine or tractor - trailer unless all instructions have been followed
- Forestry Application
  Following hazards exist;
  (a) toppling trees, primarily in case a rear-mounted tree grab-crane is mounted at the rear of the tractor;
  (b) penetrating objects in the operator's enclosure, primarily in case a winch is mounted at the rear of the tractor.
  Optional equipments such as OPS (Operator Protective Structure), FOPS (Falling Object Protective Structure), etc. to deal with these hazards and other related hazards are not available for this tractor. Without such optional equipment use is limited to tractor specific applications like transport and stationary work.

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INSTRUMENT PANEL AND CONTROLS

■ Instrument Panel, Switches and Hand Controls



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(2) Auto regeneration switch 14
(3) Display switch (Hour, Trip) 41
(4) Engine RPM dual memory A/B indicator switch 47
(5) Front wiper / washer switch 91
(6) Rear wiper / washer switch 92
(7) Shuttle lever 37
(8) Steering wheel telescope lever 31
(9) Steering wheel tilt lever 31
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ILLUSTRATED CONTENTS

(11) Instrument panel 39
(12) Front wheel differential lock switch 63
(13) 4WD / Bi-speed turn switch 38
(14) Hazard light switch 31
(15) Turn signal / Head light switch 31, 31
(16) Horn button 32
(17) Key switch ..... ---
(18) Foot throttle 39
(19) Brake pedal 33

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ELECTRONIC ENGINE CONTROL

The electronically controlled engine which is installed in this tractor performs the following three types of control.

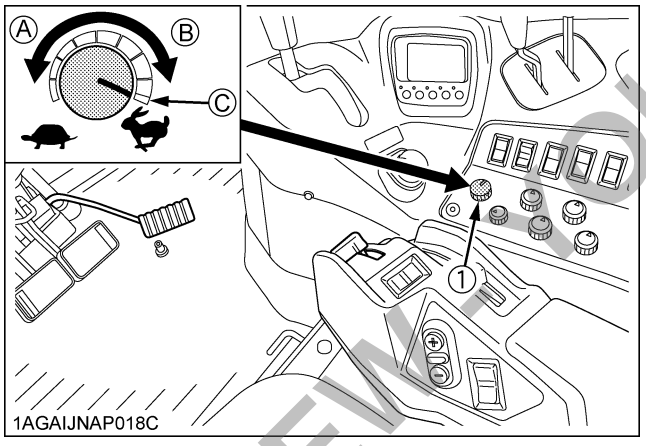
1. Rev-limiter control setting
2. RPM dual memory setting
3. Constant RPM management control

■Rev-limiter Control Setting

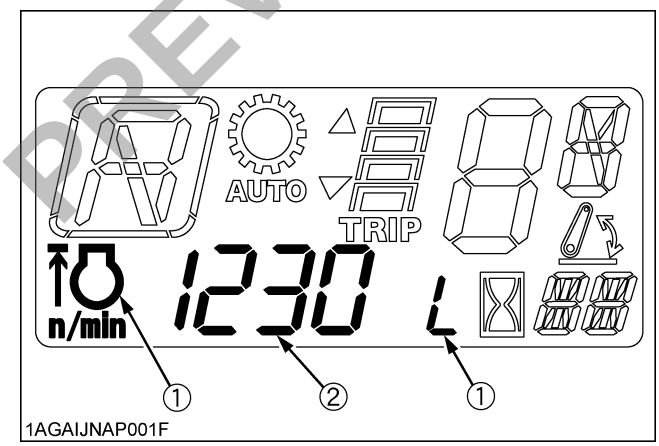
When the Rev-limiter control dial is used to restrict the maximum engine speed, the engine speed will not exceed the set speed even when the hand throttle lever or foot throttle is operated. This can prevent machine trouble caused by incorrect operation.

◆ **Setting the speed**

1. The setting can be made both when the engine is running and when it is stopped.
2. Set the speed by turning the dial to the left or right while watching the engine speed that is displayed on the LCD.
3. When the dial is turned all the way to the right, to the " " position, the restriction is canceled.



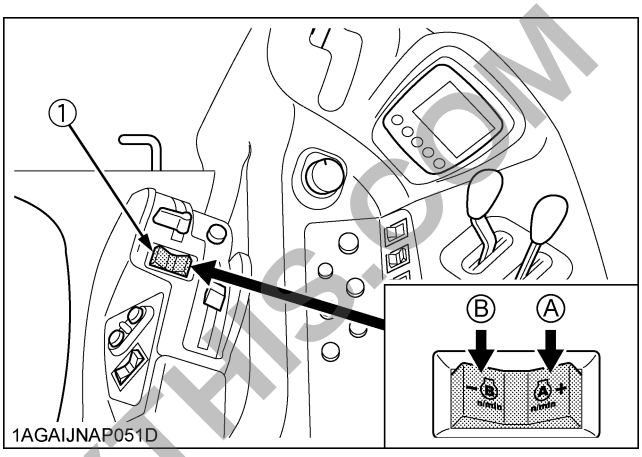
(1) Rev-limiter control dial
(A) "LOW-SPEED SIDE"
(B) "HIGH-SPEED SIDE"
(C) "CANCELED"



(1) Display when Rev-limiter control is set
(2) Maximum engine speed that is set

■RPM Dual Memory Setting

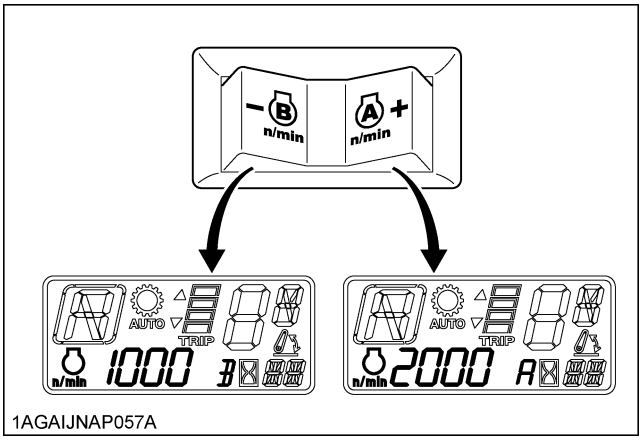
Two different engine speeds can each be set with a single touch by pressing the RPM dual memory switch to the (A) or (B) side. This can be used to eliminate troublesome acceleration operations.



(1) RPM dual memory switch
(A) Switch A
(B) Switch B

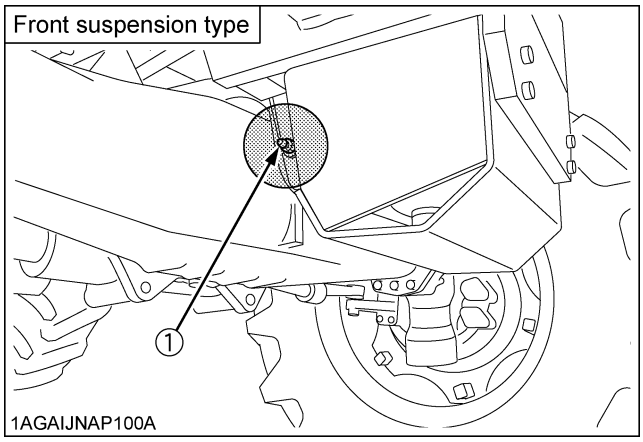
◆ **Example of use**

Consider an example in which an engine speed of 2000 rpm is set for the switch (A) side and a speed of 1000 rpm is set for the switch (B) side.

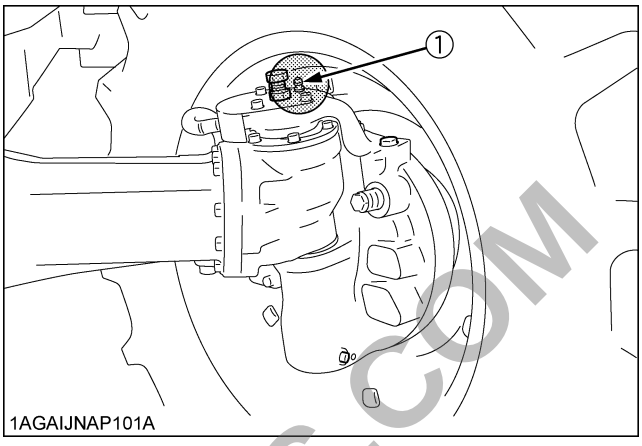


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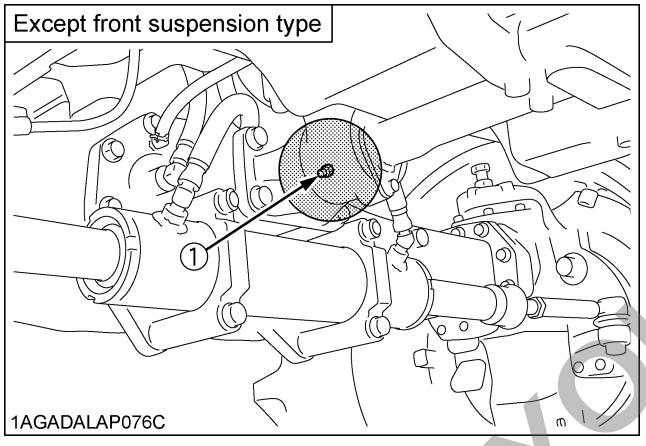
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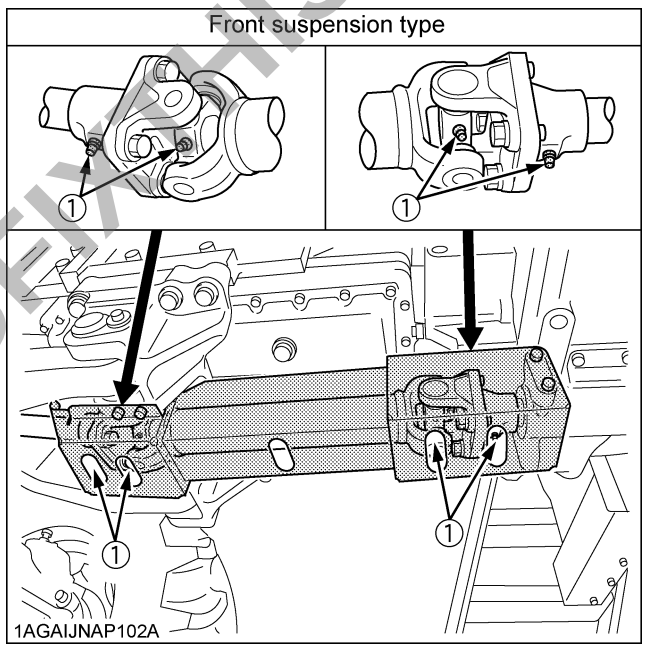
(1) Grease fitting (Front axle support)



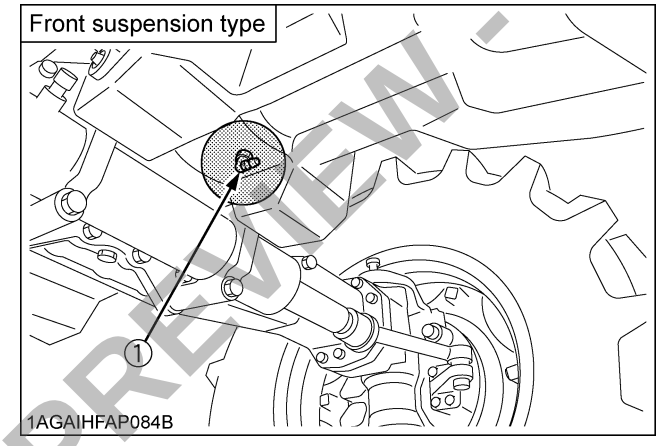
(1) Grease fitting (Front axle gear case support) [RH, LH]



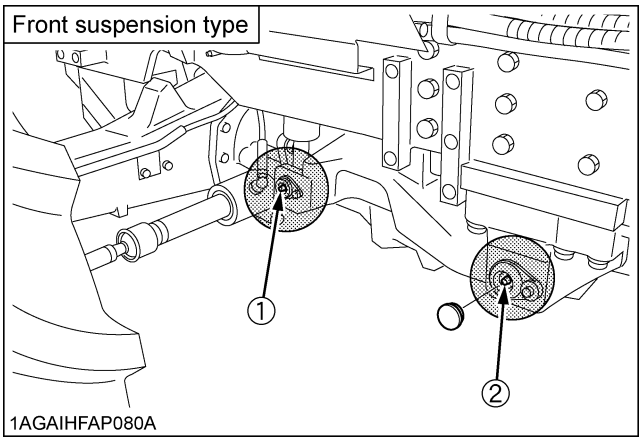
(1) Grease fitting (Front axle support)



(1) Grease fitting (Universal joint)



(1) Grease fitting (Front axle support)



(1) Grease fitting (Suspension cylinder) [RH, LH]
(2) Grease fitting (Suspension arm) [RH, LH]

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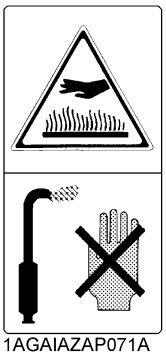
7. DANGER, WARNING AND CAUTION LABELS

(1) Part No. TA040-4957-1
Do not get your hands close to engine fan and fan belt.



1AGAIAZAP110A

(2) Part No. 3N300-4958-1
Do not touch hot surface like muffler, etc.



1AGAIAZAP071A

(3) Part No. 3N600-4958-1
Do not touch hot surface like supply pump, etc.

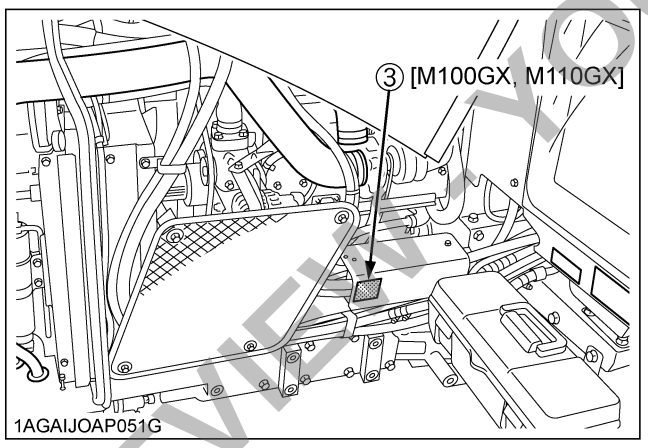


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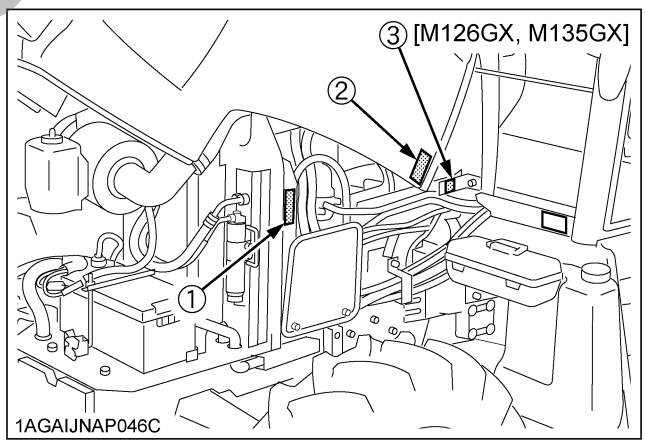
(4) Part No. 3Y205-9868-1



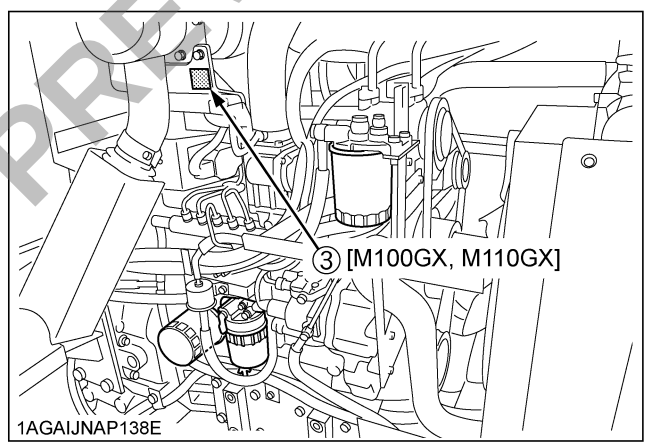
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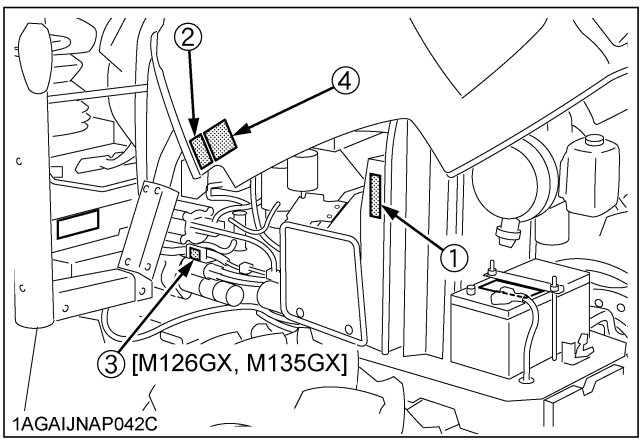
1AGAIJOAP051G



1AGAIJNAP046C



1AGAIJNAP138E



1AGAIJNAP042C

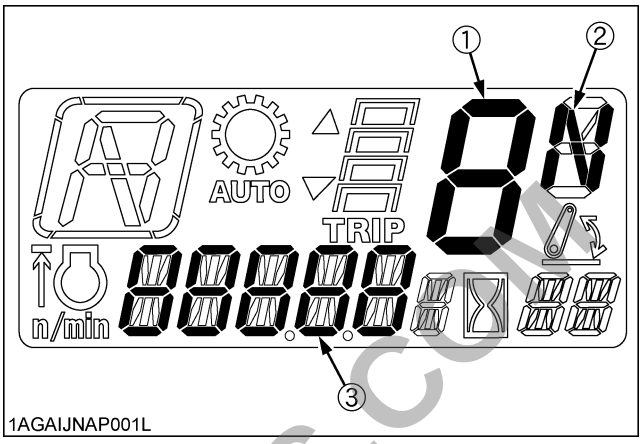
1AGAIJPAP006A

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POWER SHIFT/RANGE SHIFT TROUBLE SHOOTING

If something is wrong with the power shift / range shift, an alarm sounds or the error code shown below is displayed on the liquid crystal display, indicating the location of the trouble. If an error code appears, immediately contact your local KUBOTA Dealer for repairs. Depending on the parts of the trouble, tractor can be used with some restriction as emergency measure. For details, check the error code and operator's action columns.



(1) Power shift number display area
(2) Range shift position display area
(3) Engine speed display area

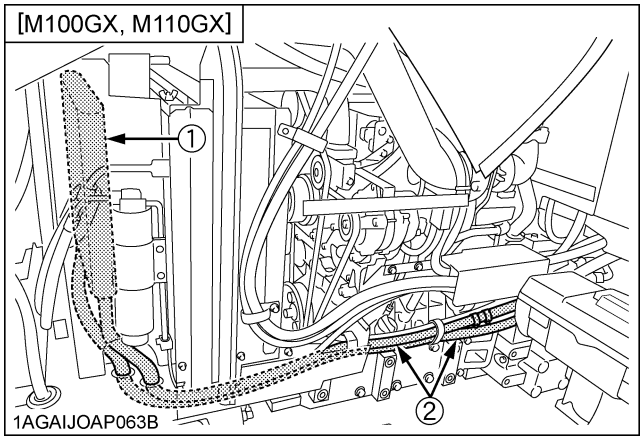
Displayed error code		Alarm buzzer	Condition	Operator's action
Power shift number display area	Engine speed display area			
U and 1 to 8 flashing alternately	E-R51	3 consecutive tones	● Clutch is operated. ● Hydraulic switch (master) trouble. ● Proportional solenoid valve (master) trouble.	Contact your local KUBOTA Dealer. (If necessary, move the range shift lever to L. The machine can travel at any of 1st to 8th gears.)
C and 1 to 8 flashing alternately	E-R20	3 consecutive tones	● Trouble with the output voltage of the clutch pedal sensor. ● Clutch pedal sensor trouble.	Contact your local KUBOTA Dealer. (If necessary, move the range shift lever to N (in the L side) first and then to L. The machine can travel at any of 1st to 8th gears.)
C flashing	E-R37	3 consecutive tones	● Proportional solenoid valve (master) trouble.	Contact your local KUBOTA Dealer. (The machine cannot travel.)
---	---	---	● Shuttle switch (F/R) trouble. ● Shuttle F/R is not displayed.	Contact your local KUBOTA Dealer. (The machine cannot travel.)

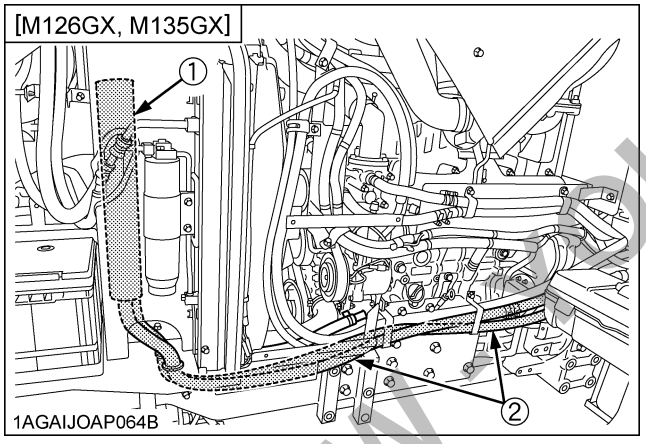
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■Checking Oil Cooler Line

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

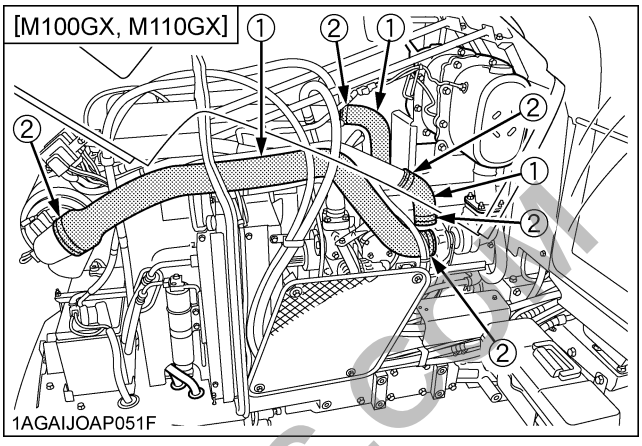


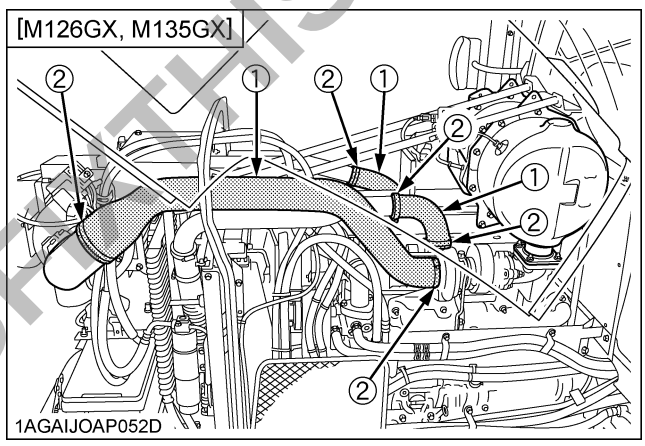


(1) Oil cooler
(2) Oil cooler line

■Checking Intake Air Line

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

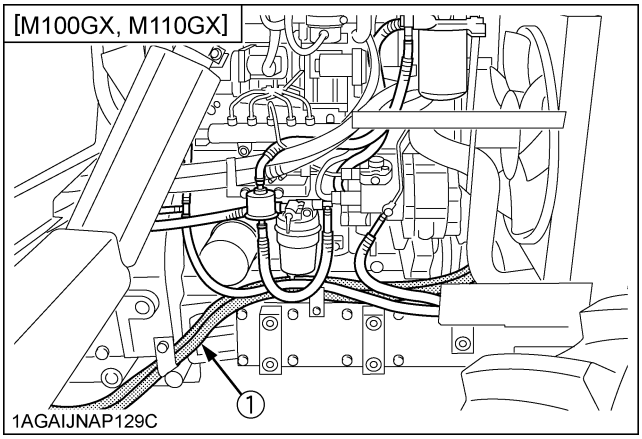




(1) Hose
(2) Hose clamps

■Checking Power Steering Line

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



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