⚠ SAFE OPERATION

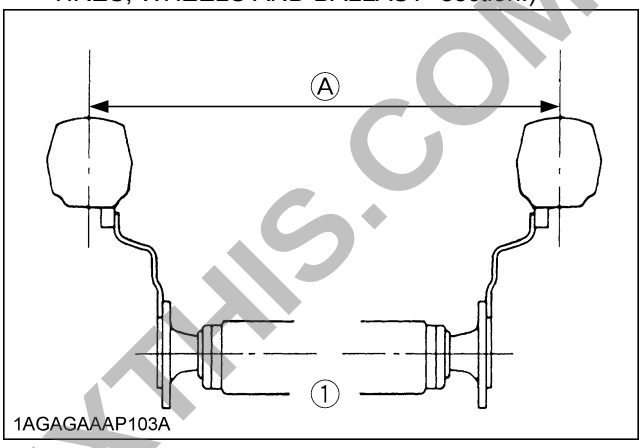
Careful operation is your best insurance against an accident.

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 the 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. Set parking brake and stop engine. Remove any obstruction that may prevent raising or folding of the ROPS. Do not allow any bystanders. Always perform function from a stable position at the rear of the tractor. Hold the top of the ROPS securely when raising or folding. Make sure all pins are installed and locked.
3. If the CAB or ROPS is loosened or removed for any reason, make sure that all parts are reinstalled correctly before operating the tractor.
4. Never modify or repair any structural member of a CAB or ROPS because welding, bending, drilling, grinding, or cutting may weaken the structure.
5. If any structural member of the CAB or ROPS is damaged, replace the entire structure at your local KUBOTA Dealer.
6. If the tractor is equipped with a foldable ROPS it may be temporarily folded down only when absolutely necessary for areas with height constraints.
   (There is no operator protection provided by the ROPS in the folded position. For operator safety the ROPS should be placed in the upright and locked position and the seat belt fastened for all other operations.)

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SPECIFICATIONS

SPECIFICATION TABLE

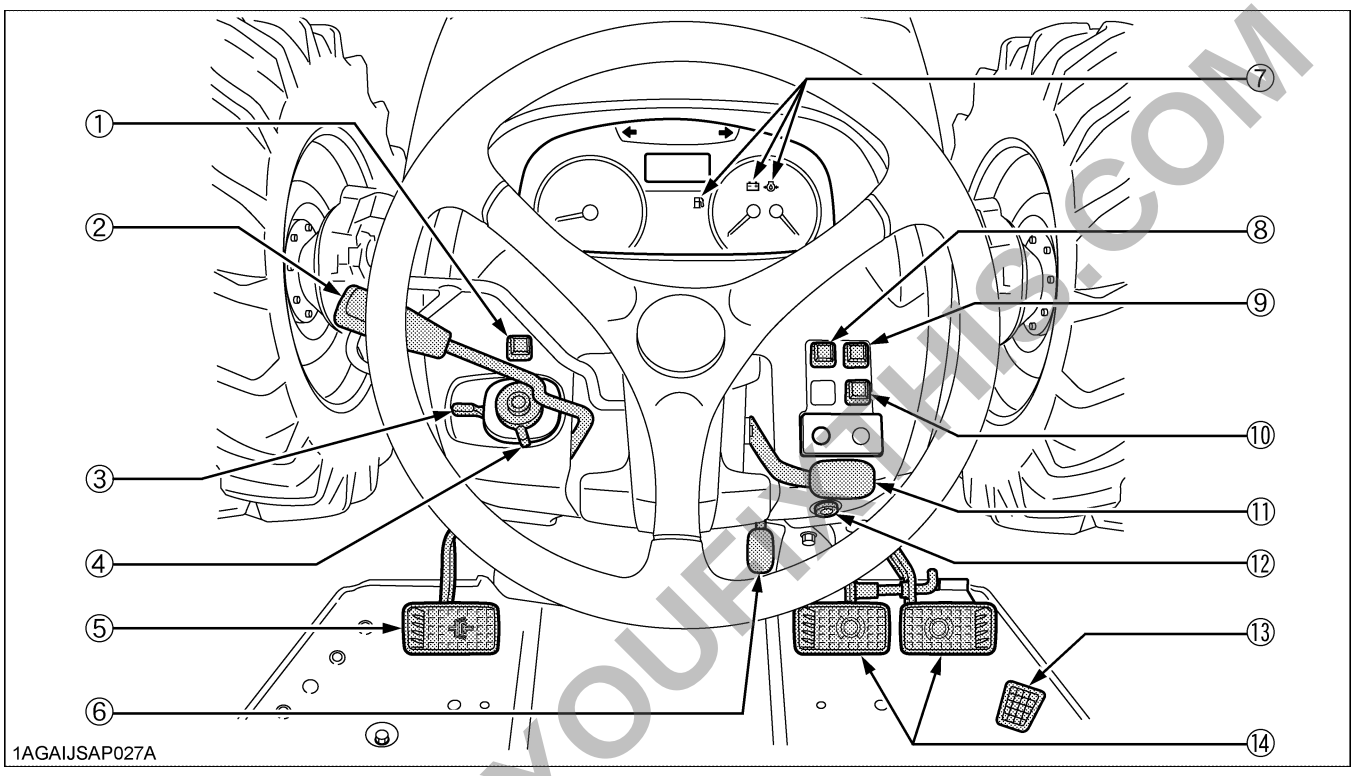
Model				M5660SU	
				2WD	4WD
Engine	Model			V2403-CR-TE4	
	Type			4 cylinder in-line, Common Rail System, direct Injection	
	Total displacement		cm^3 (cu.in.)	2434 (148.5)	
	Bore and stroke		mm (in.)	87 x 102.4 (3.4 x 4)	
	Rated revolution		rpm	2600	
	Low idling revolution		rpm	950 to 1000	
	Rated Engine HP (97/68/EC)		kW (HP)	43.2 (57.9) @ 2600	
	Net power *1 (SAE J1349)		kW (HP)	41.8 (56) @ 2600	
	PTO power *1 (at rated engine RPM)		kW (HP)	37.3 (50)	
	Maximum torque		N-m (ft-lbs) / rpm	193.6 (142.8) / 1500 to 1700	
	Battery capacity			12V, RC: 133 min, CCA 582A	
	Fuel tank capacity		L (U.S.gals.)	67 (17.7)	
	Engine oil capacity		L (U.S.qts.)	7.2 (7.6)	
	Coolant capacity		L (U.S.qts.)	8 (8.5)	
Dimensions	Overall length		mm (in.)	3525 (138.7)	3455 (136)
	Overall width (minimum tread)		mm (in.)	1860 (73.2)	
	Overall height		mm (in.)	2420 (95.3)	
	Wheel base		mm (in.)	2085 (82)	2050 (81)
	Tread	Front	mm (in.)	1420, 1520 (55.9, 59.8)	1300, 1400 (51.2, 55.1)
		Rear	mm (in.)	1320 to 1720 (52.0 to 67.7)	
	Minimum ground clearance		mm (in.)	415 (16.3)	
Weight			kg (lbs.)	1900 (4189)	1990 (4387)

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INSTRUMENT PANEL AND CONTROLS

■ Instrument Panel, Switches and Hand Controls



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(7) Easy Checker(TM) 32
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(9) DPF INHIBIT switch 12
(10) Hazard light switch 27
(11) Hand throttle lever 32
(12) Key switch ..... -
(13) Foot throttle 32
(14) Brake pedal 28

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OPERATING THE ENGINE

WARNING

To avoid personal injury or death:

- **Read "Safe Operation" in the front of this manual.**
- **Read the danger, warning and caution labels located on the tractor.**
- **To avoid the danger of exhaust fume poisoning, do not operate the engine in a closed building without proper ventilation.**
- **Never start engine while standing on ground. Start engine only from operator's seat.**
- **Make it a rule to set all shift levers to the "NEUTRAL" positions and to place PTO clutch control switch in "OFF" position before starting the engine.**

IMPORTANT :

- Do not use starting fluid or ether.
- To protect the battery and the starter, make sure that the starter is not continuously turned for more than 10 seconds.

EXHAUST AFTERTREATMENT DEVICES

WARNING

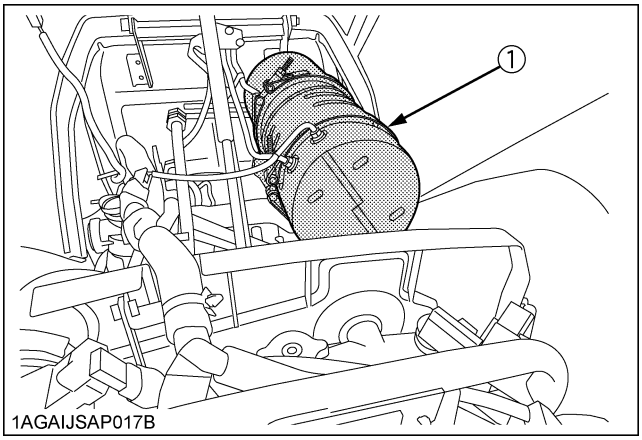
To avoid personal injury or death:

- **During Diesel Particulate Filter (DPF) regenerating operations, exhaust gases and exhaust filter components reach temperatures hot enough to burn people, or ignite or melt common materials.**
- **Keep tractor away from people, animals or structures which may be susceptible to harm or damage from hot exhaust gases.**
- **During regeneration, white exhaust gases may be visible. Do not allow regeneration in a non ventilated garage or confined area.**
- **During regeneration, do not leave the tractor.**

■Diesel Particulate Filter (DPF) Muffler

This tractor is equipped with an engine with a DPF (Diesel Particulate Filter) muffler which serves to reduce hydrocarbons, carbon monoxide and other toxic gases, all of which are contained in diesel engine emissions, to harmless carbon dioxide and water. The DPF also traps PM (particulate matter).

Please handle exhaust aftertreatment devices correctly and in an environmentally responsible manner.



(1) Diesel Particulate Filter (DPF)

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Operating Procedure for Parked Regeneration

1. Park the tractor in a safe area away from buildings, people, and animals.

2. Apply the parking brake.

3. Set the shuttle shift lever to the neutral position.

4. Set the PTO clutch control lever to the "OFF" position.

5. Return the engine rpm to the idle speed.

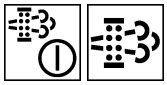
6. Lower the implement to the ground.

7. Press the DPF INHIBIT switch , and the switch lamp turns "OFF".

8. When the regeneration conditions are satisfied (2 to 5 and 7 mentioned above),
the parked regeneration switch lamp  start flashing.

9. Press the parked regeneration switch  to start the regeneration cycle.
(The switch lamp will stop flashing and remain "ON" constantly during the cycle.)

10. The engine rpm will automatically rise, and the regeneration process will begin.

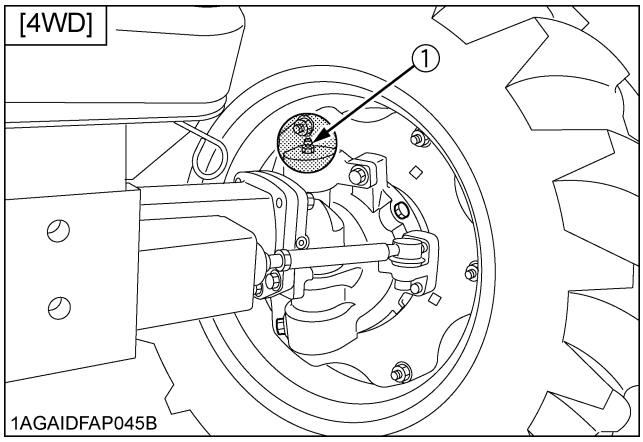
11. Both indicators  stay "ON" while regenerating the DPF.
They turn "OFF" when the cycle is complete.

12. After the lamp turns "OFF", normal tractor work may resume.
When driving in "Regeneration Inhibit" mode, press the DPF INHIBIT switch to turn on the switch lamp.

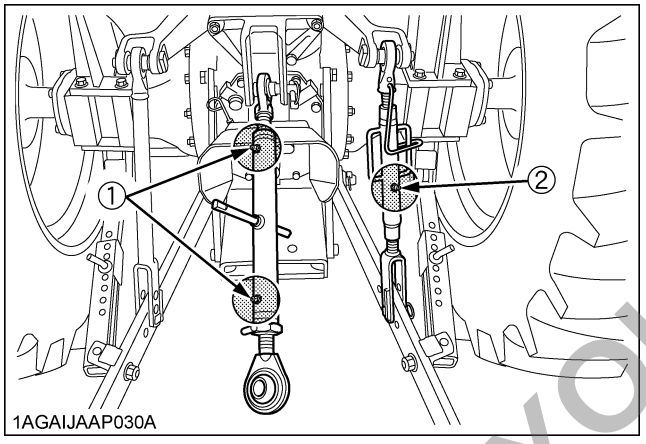
NOTE :
- During the regeneration cycle, do not touch the above levers, and switches (in steps 2, 3, 4), nor change the engine rpm other than an emergency stop. Otherwise, the regeneration will be interrupted.
- Never leave the tractor when parked regeneration process is activated.
- If the parked regeneration cycle is interrupted, the engine rpm is fixed at the idling level for about 30 seconds. For this period, keep the hand throttle lever and foot throttle pedal at the idle position. Do not move them. They will function again in 30 seconds.

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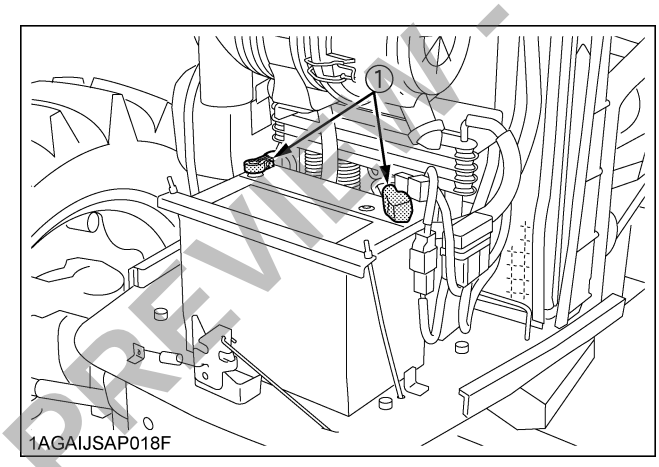
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(1) Grease fitting (Front axle gear case support) [RH, LH]



(1) Grease fitting (Top link)
(2) Grease fitting (Lifting rod)



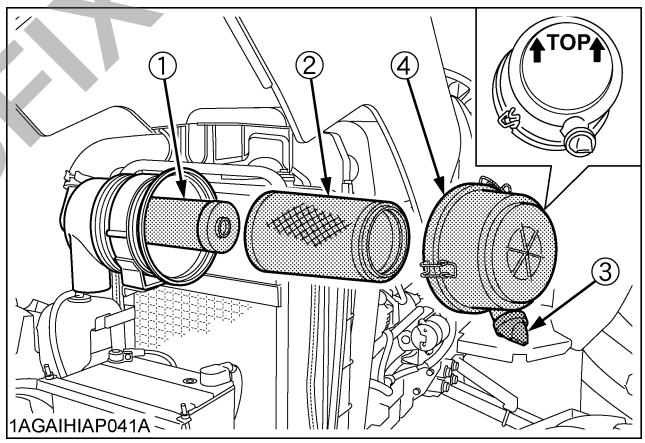
(1) Battery terminals

■Cleaning Air Cleaner Primary Element

1. Remove the air cleaner cover and primary element.
2. Clean the primary element:
   (1) When dry dust adheres to the element, blow compressed air from the inside, turning the element. Pressure of compressed air must be under 205 kPa (2.1 kgf/cm², 30 psi).
   (2) When carbon or oil adheres to the element, soak the element in detergent for 15 minutes then wash it several times in water, rinse with clean water and dry it naturally. After element is fully dried, inspect inside of the element with a light and check if it is damaged or not.
3. Replace air cleaner primary element:
   Once yearly or after every sixth cleaning, whichever comes first.

NOTE :

- Check to see if the evacuator valve is blocked with dust.



(1) Secondary (safety) element
(2) Primary element
(3) Evacuator valve
(4) Cover

IMPORTANT :

- The air cleaner uses a dry element, never apply oil.
- Do not run the engine with filter element removed.
- Be sure to refit the cover with the arrow ⬆ (on the rear of cover) upright. If the cover is improperly fitted, evacuator valve will not function and dust will adhere to the element.
- Do not touch the secondary element except in cases where replacing is required.
  (See "Replacing Air Cleaner Secondary Element" in "EVERY 1 YEAR" in "PERIODIC SERVICE" section.)

◆ Evacuator Valve

Open the evacuator valve once a week under ordinary conditions - or daily when used in a dusty place - to get rid of large particles of dust and dirt.

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◆ **Test: Switch for the PTO clutch control switch or lever.**

1. Follow the instruction of "PARKING THE TRACTOR". (See "PARKING THE TRACTOR" in "SAFE OPERATION" section.)
2. Sit on the operator's seat.
3. Engage the PTO clutch control switch or lever.
4. Depress the clutch pedal fully.
5. Shift the shuttle shift lever to the neutral position.
6. Turn the key to "START" position.
7. The engine must not crank.
8. If it cranks, consult your local KUBOTA Dealer for this service.

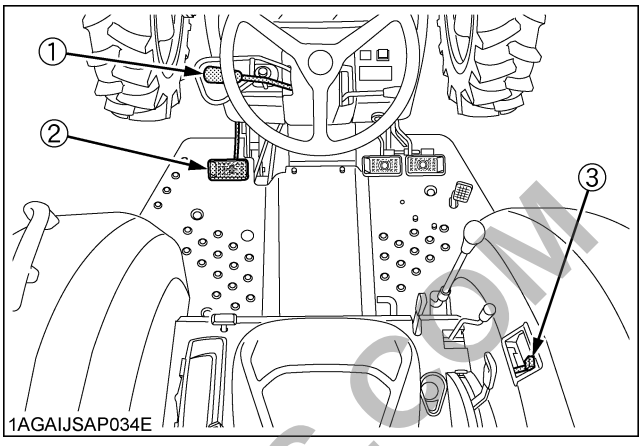
◆ **Test: Checking Operator Presence Control (O.P.C.) System.**

1. Follow the instruction of "PARKING THE TRACTOR". (See "PARKING THE TRACTOR" in "SAFE OPERATION" section.)
2. Make sure the PTO drive shaft is disconnected from the tractor.
3. Sit on the operator's seat.
4. Start the engine.
5. Engage the PTO clutch control switch or lever. The PTO should begin to rotate. Disengage the PTO clutch control switch or lever.
6. While lifting yourself from the seat, engage the PTO clutch control switch or lever.
   (1) The PTO should begin to rotate and a buzzer should sound.
   (2) Disengage the PTO clutch control switch or lever.
   (3) If the buzzer does not sound, shut off the engine and consult your local KUBOTA Dealer for immediate servicing of the PTO OPC.
7. If the PTO OPC is operating properly, shut off the engine, and reconnect the implement drive shaft to the PTO. Restart the engine per the available instructions.

WARNING

To avoid personal injury or death:

- **Before checking the PTO OPC, make sure that the PTO drive shaft should be disconnected from the tractor.**
- **If the buzzer does not sound during the PTO OPC check procedure, shut off engine and consult your local KUBOTA Dealer for immediate servicing of the PTO OPC.**
- **The unit should not be operated until servicing is completed.**



(1) Shuttle shift lever
(2) Clutch pedal
(3) PTO clutch control lever

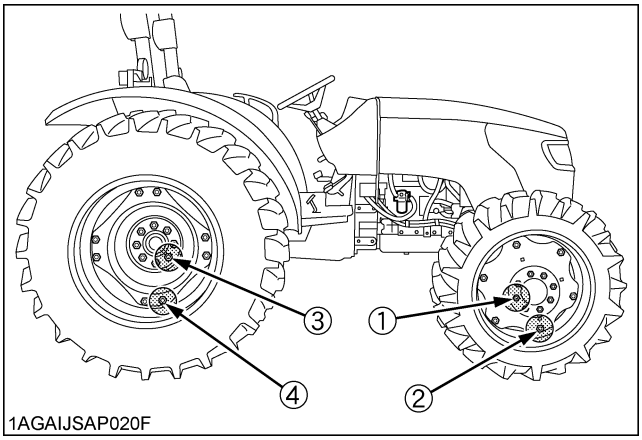
■Checking Wheel Bolt Torque

WARNING

To avoid personal injury or death:

- **Never operate tractor with a loose rim, wheel, or axle.**
- **Any time bolts and nuts are loosened, retighten to specified torque.**
- **Check all bolts and nuts frequently and keep them tight.**

Check wheel bolts and nuts regularly especially when new. If they are loose, tighten them as follows.



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■PTO Speed Display Mode Switching

[with 540 rpm model]

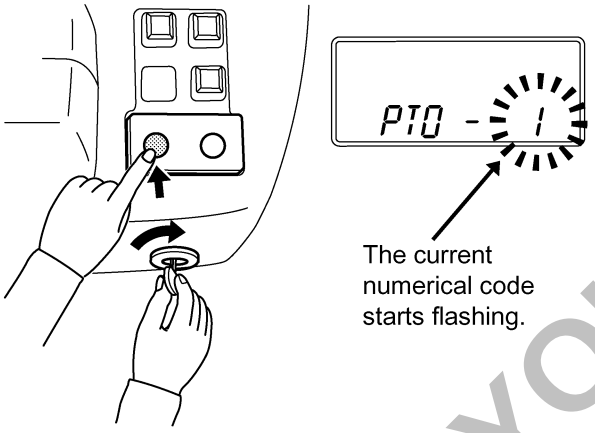
The PTO speed display mode has been factory-set at Code 1. Do not attempt to change the code. Otherwise the correct PTO speed will not be displayed in the LCD monitor.
(NOTE: The current code can be checked in the following switching procedure.)

[with 540/540E rpm model (Option)]

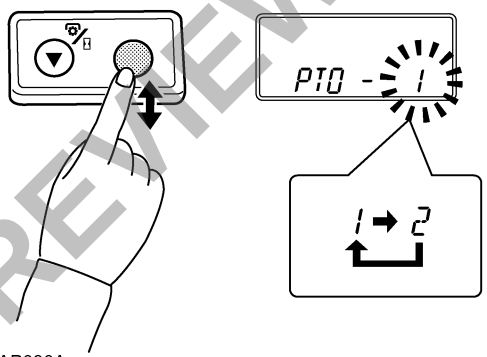
The PTO speed display mode has been factory-set at Code 1. Change the code to Code2 in the following switching procedure. Otherwise the correct PTO speed will not be displayed in the LCD monitor.

◆ Switching procedure

① While pressing the PTO/Hour meter select switch, turn the key switch to "ON" position.

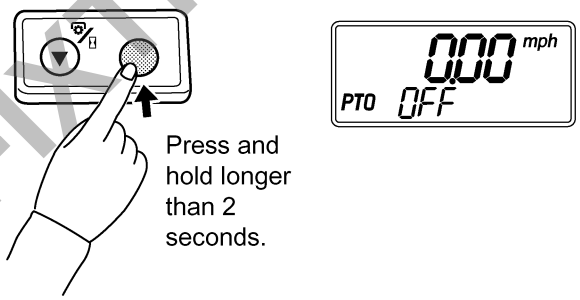


② Each time the Select switch is pressed, the code changes in the order of [1]→[2]→[1]. Select the appropriate code according to the table below.



1AGAIJSAP030A

③ Press and hold the Select switch longer than 2 seconds. The setting is put in memory, and the LCD monitor goes back to the PTO speed display mode.



NOTE:

- The setting will be cancelled if the key switch is turned OFF halfway in the procedure.

Numerical code	PTO speed (rpm)
1	540
2	540 / 540E (with PTO gear shift lever)

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TROUBLESHOOTING

ENGINE TROUBLESHOOTING

If something is wrong with the engine, refer to the table below for the cause and its corrective measure.

Trouble		Cause	Countermeasure
Engine is difficult to start or won't start.		● No fuel flow.	● Check the fuel tank and the fuel filter. Replace filter if necessary.
		● Air or water is in the fuel system.	● Check to see if the fuel line coupler bolt and nut are tight. ● Bleed the fuel system (See "Bleeding Fuel System" in "SERVICE AS REQUIRED" in "PERIODIC SERVICE" section.)
		● In winter, oil viscosity increases, and engine revolution is slow.	● Use oils of different viscosities, depending on ambient temperatures. ● Use engine block heater (Optional)
		● Battery becomes weak and the engine does not turn over quick enough.	● Clean battery cables & terminals. ● Charge the battery. ● In cold weather, always remove the battery from the engine, charge and store it indoors. Install it on the tractor only when the tractor is going to be used.
		● Intake air heater system trouble.	● Check to see if the slow blow fuse of the intake air heater blows. ● Check to see if the intake air heater functions in cold weather.
Insufficient engine power.		● Insufficient or dirty fuel. ● The air cleaner is clogged.	● Check the fuel system. ● Clean or replace the element.
Engine stops suddenly.		● Insufficient fuel.	● Refuel. ● Bleed the fuel system if necessary.
Exhaust fumes are colored.	Black	● Fuel quality is poor. ● Too much oil. ● The air cleaner is clogged.	● Change the fuel and fuel filter. ● Check the proper amount of oil. ● Clean or replace the element.
	Blue white	● The inside of exhaust muffler is dumped with fuel. ● Injection nozzle trouble. ● Fuel quality is poor.	● Check to see if the intake air heater functions in cold weather. ● Heat the muffler by applying load to the engine. ● Check the injection nozzle. ● Change the fuel and fuel filter.
Engine overheats		● Engine overloaded	● Shift to lower gear or reduce load.
		● Low coolant level	● Fill cooling system to the correct level; check radiator and hoses for loose connections or leaks.
		● Loose or defective fan belt	● Adjust or replace fan belt.
		● Dirty radiator core or grille screens	● Remove all trash.
		● Coolant flow route corroded	● Flush cooling system.

If you have any questions, contact your local KUBOTA Dealer.

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FOREWORD

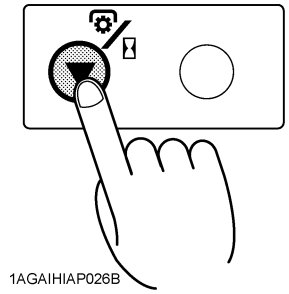
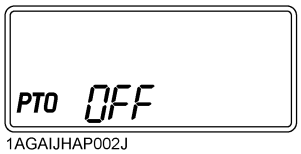
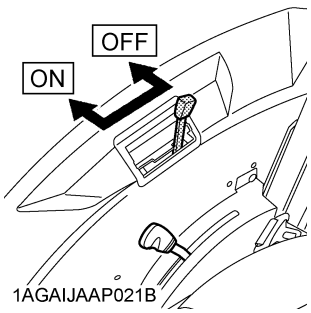
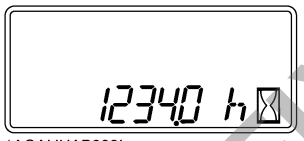
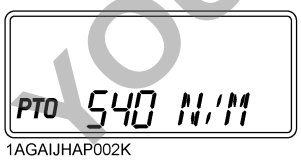
You are now the proud owner of a KUBOTA Tractor. This tractor is a product of KUBOTA quality engineering and manufacturing. It is made of fine materials and under a rigid quality control system. It will give you long, satisfactory service. To obtain the best use of your tractor, please read this manual carefully. It will help you become familiar with the operation of the tractor and contains many helpful hints about tractor maintenance. It is KUBOTA's policy to utilize as quickly as possible every advance in our research. The immediate use of new techniques in the manufacture of products may cause some small parts of this manual to be outdated. KUBOTA distributors and dealers will have the most up-to-date information. Please do not hesitate to consult with them.

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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	Display mode switching [Hour meter mode] and [PTO speed mode]  1AGAIHIAP026B	Hour meter mode  1AGAIJHAP002I	● Total operating hours are displayed. ● The hour meter indicates in 5 digits the hours the tractor has been used; the last digit indicates 1/10 of an hour.
		PTO speed mode  1AGAIJHAP002J	● PTO speed are displayed. ● When the PTO clutch control lever is in "OFF" position, "OFF" is displayed. ● See "PTO Speed Display Mode Switching" in "PTO TACHOMETER / HOURMETER" in "OPERATING THE TRACTOR" section.
2	PTO clutch control lever  1AGAIJAAP021B	PTO OFF (Hour meter mode)  1AGAIJHAP002I	● Total operating hours are displayed. ● The hour meter indicates in 5 digits the hours the tractor has been used; the last digit indicates 1/10 of an hour. ● When the PTO / Hour meter select switch is pressed in this state, "OFF" is displayed.
		PTO ON (PTO speed mode)  1AGAIJHAP002K	● PTO speed are displayed. ● When the PTO / Hour meter select switch is pressed in this state, the display mode switches to hour meter mode.

NOTE :
- In cold weather the LCD monitor response will normally be slower and the visibility be less, than in warmer weather.

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