CONTENTS

⚠SAFE OPERATION ..... ⚠-1

SERVICING OF TRACTOR 1

SPECIFICATIONS 2
- SPECIFICATION TABLE 2
- TRAVELING SPEEDS 3

IMPLEMENT LIMITATIONS 4

INSTRUMENT PANEL AND CONTROLS 6

PRE-OPERATION CHECK 8
- DAILY CHECK 8

OPERATING THE ENGINE 9
- STARTING THE ENGINE 9
- STOPPING THE ENGINE 12
- WARMING UP 12
  - Warm-Up Transmission Oil in the Low Temperature Range 12
- JUMP STARTING 12

OPERATING THE TRACTOR 14
- OPERATING NEW TRACTOR 14
  - Do not Operate the Tractor at Full Speed for the First 50 Hours 14
  - Changing Lubricating Oil for New Tractors 14
- STARTING 14
  - Operator's Seat 14
  - Seat Belt 15
  - Head Light Switch 16
  - Turn Signal / Hazard Light Switch 16
  - Horn Button 17
  - Tractor Lights 17
  - Brake Pedals (Right and Left) 18
  - Clutch Pedal 19
  - Clutch Pedal [with Dual Clutch] 19
  - Main Gear Shift Lever & Range Gear Shift Lever 20
  - Front Wheel Drive Lever 20
  - Hand Throttle Lever 21
  - Foot Throttle 21
  - Parking Brake 21
- STOPPING 22
  - Stopping 22
- CHECK DURING DRIVING 22
  - Immediately Stop the Engine if: 22
  - Easy Checker(TM) 22
  - Fuel Gauge 22
  - Coolant Temperature Gauge 23
  - Hourmeter/Tachometer 23
- PARKING 24

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⚠ SAFE OPERATION

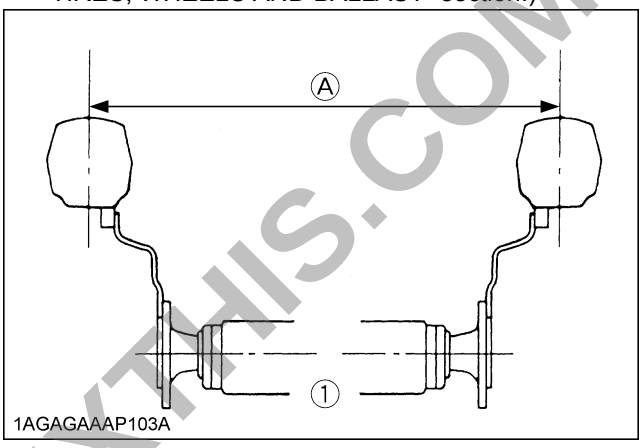
Careful operation is your best insurance against an accident.

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 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. 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

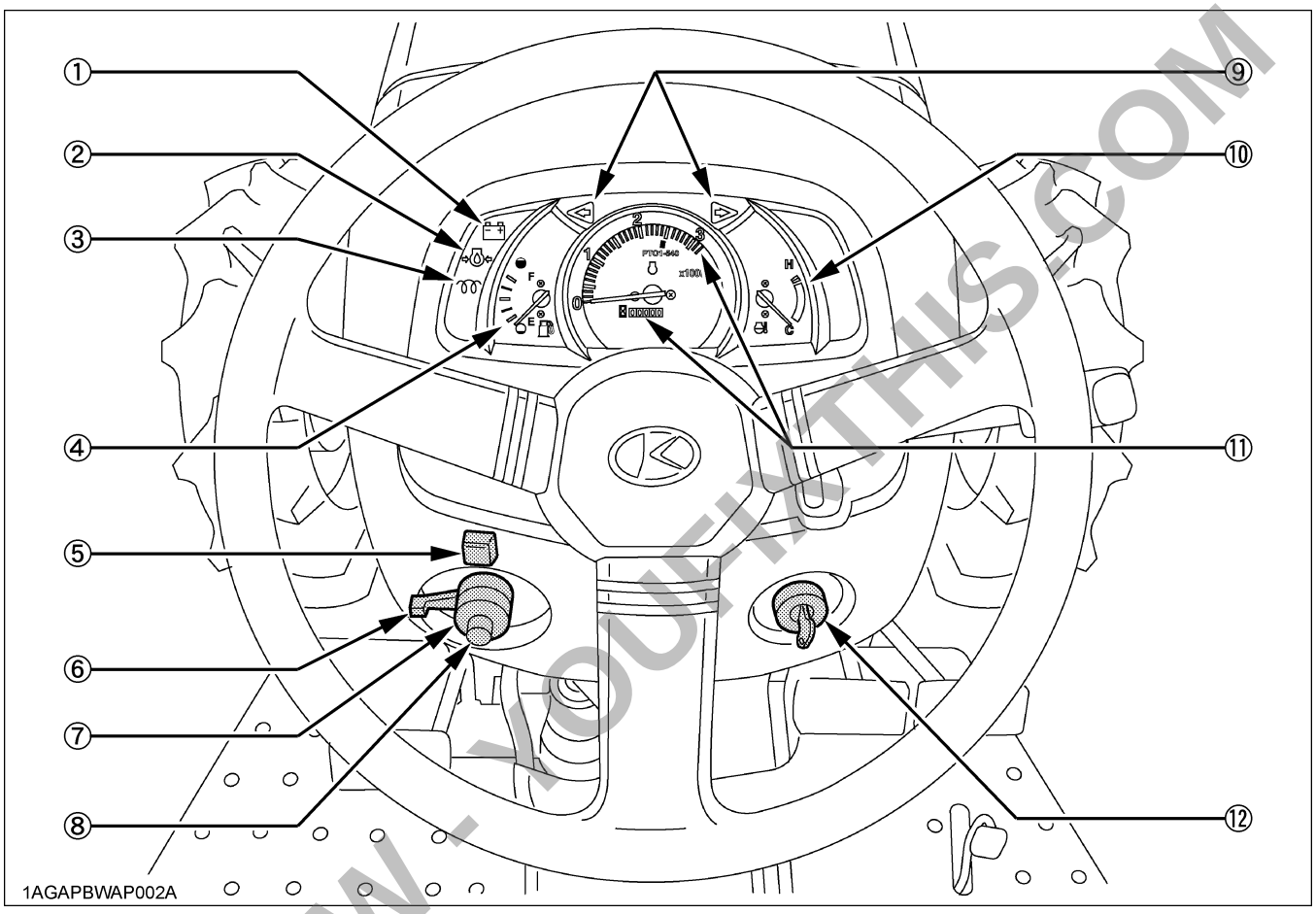
Model				L3200	L3800
				Manual Transmission	
				4WD	
PTO power*			kW (PS)	19.9 (27.1)	23.5 (31.9)
Engine	Maker			KUBOTA	
	Model			D1503-M-E3	D1803-M-E3
	Type			Indirect injection, Vertical, Water-Cooled 4 cycle diesel	
	Number of cylinders			3	
	Bore and stroke		mm	83 X 92.4	87 x 102.4
	Total displacement		L	1.499	1.826
	Engine gross power*		kW (PS)	23.8 (32.4)	27.9 (37.9)
	Engine net power*		kW (PS)	22.7 (30.8)	26.8 (36.4)
	Rated revolution		rps (rpm)	46.7 (2800)	45.0 (2700)
	Low idling revolution		rps (rpm)	15.0 to 16.7 (900 to 1000)	
	Maximum torque		N-m	94.9	115.6
	Battery			12V. RC : 123 min, CCA : 490 A	
Capacities	Fuel tank		L	38.0	
	Engine crankcase (with filter)		L	5.7	7.1
	Engine coolant		L	6.0	
	Transmission case		L	27.5	
Dimensions	Overall length (without 3p)		mm	2800	
	Overall width (min.tread)		mm	1400	
	Overall height (with ROPS)		mm	2330	
	Overall height (Top of steering wheel)		mm	1475	
	Wheel base		mm	1610	
	Min. ground clearance		mm	340	
	Tread	Front	mm	1085	
		Rear	mm	1115, 1195, 1295	
Weight (with ROPS)			kg	1180	1205
Traveling system	Tires	AG Front		7 - 16	
		AG Rear		11.2 - 24	
	Turf (option)	Front		212/80 - D15	
		Rear		355/80 - D20	
	Clutch			Dry type Single stage	Dry type Dual stage
	Steering			Integral type power steering	
	Transmission			Gear shift, 8 forwardand 4 reverse	
	Brake			Wet disk type	
	Min. turning radius (with brake)		m	2.5	

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INSTRUMENT PANEL AND CONTROLS

■ Instrument Panel, Switches and Hand Controls



ILLUSTRATED CONTENTS

(1)	*Electrical charge lamp*	*22*
(2)	*Engine oil pressure lamp*	*22*
(3)	*Glow plug indicator*	*9*
(4)	*Fuel gauge*	*22*
(5)	*Hazard light switch*	*16*
(6)	*Turn signal switch*	*16*
(7)	*Head light switch*	*16*
(8)	*Horn button*	*17*
(9)	*Turn signal / Hazard light indicator*	*16*
(10)	*Coolant temperature gauge*	*23*
(11)	*Hourmeter / Tachometer*	*23*
(12)	*Key switch*	*9*

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OPERATING THE ENGINE

CAUTION

To avoid personal injury:

- **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 lever in "OFF" position before starting the engine.**

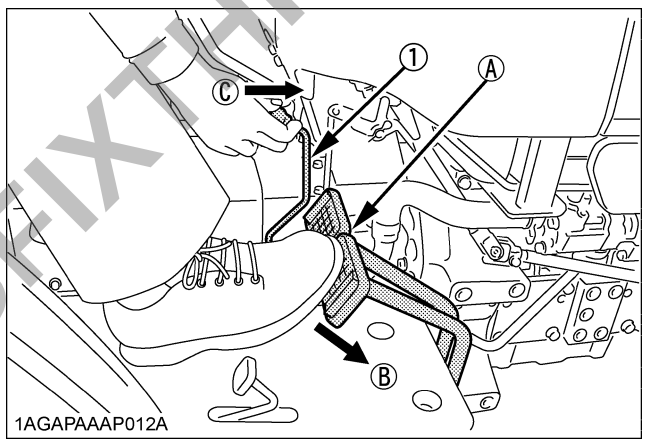
IMPORTANT :

- 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.

STARTING THE ENGINE

1. Make sure the parking brake is set.

1. To set the parking brake;
   (1) Interlock the brake pedals.
   (2) Depress the brake pedals.
   (3) Latch the brake pedals with the parking brake lever.
2. To release the parking brake, depress the brake pedals again.



(1) Parking brake lever
(A) Interlock the brake pedals
(B) "DEPRESS"
(C) "PUSH"

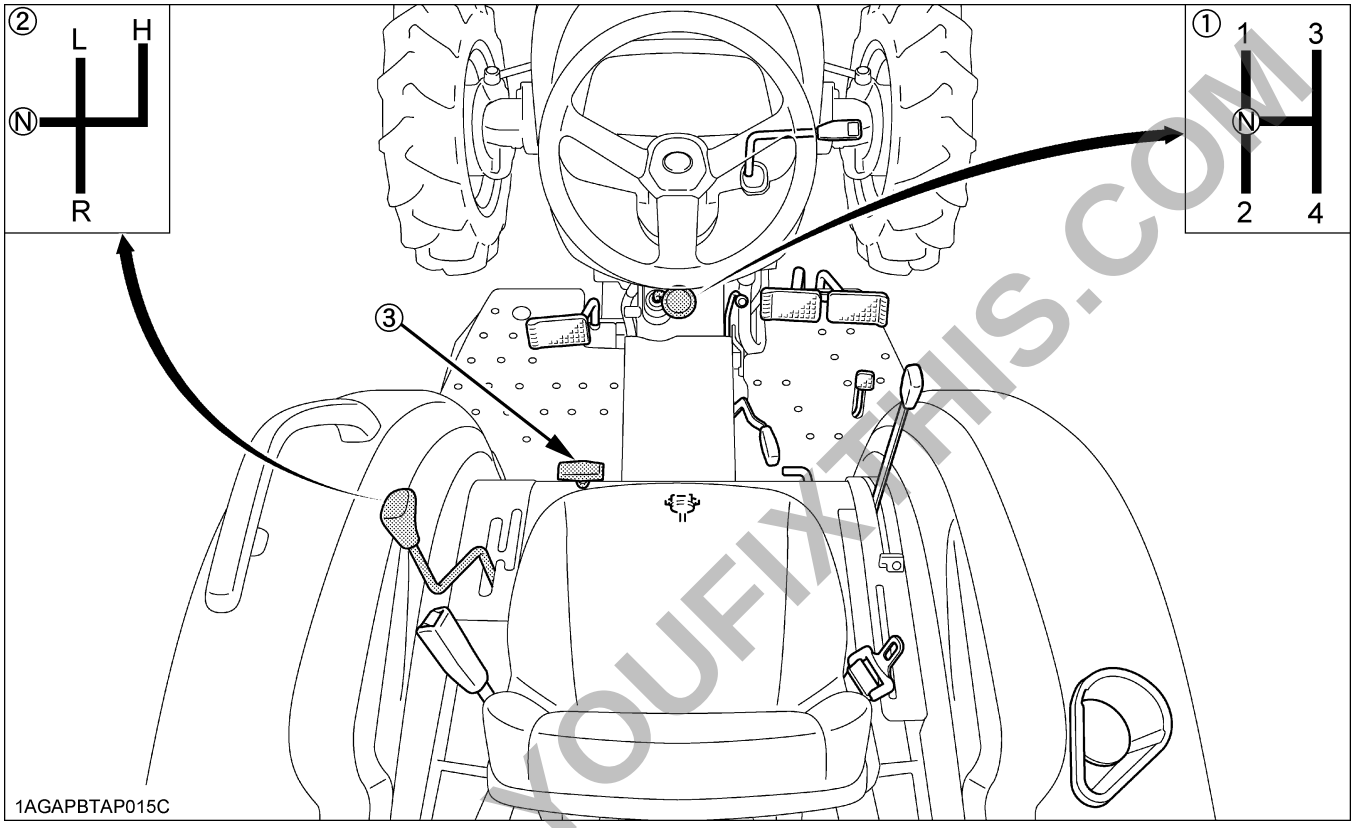
IMPORTANT :

- To prevent damage to the parking brake lever, make sure that brake pedals are fully depressed before pushing the parking brake lever.

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6. Selecting the Travel Speed.



(1) Main gear shift lever
(2) Range gear shift lever (Shuttle shift lever)
(3) Front wheel drive lever
(L) "LOW"
(N) "NEUTRAL"
(H) "HIGH"
(R) "REVERSE"

■Main Gear Shift Lever & Range Gear Shift Lever

The main gear shift lever pattern is in the form of a "H". The range gear shift lever moves in the form of a "H" in 3 stages, "HIGH", "LOW" and "REVERSE".

By combination and use of the main gear shift lever and the range gear shift lever, eight forward speeds and four reverse speeds are obtained.

IMPORTANT :

- To change speeds, press the clutch pedal completely down and stop the tractor before attempting to proceed with speed change.

■Front Wheel Drive Lever

CAUTION

To avoid personal injury:

- **Do not engage the front wheel drive when traveling at road speed.**
- **When driving on icy, wet, or loose surfaces, make sure the tractor is correctly ballasted to avoid skidding and loss of steering control. Operate at reduced speed and engage front wheel drive.**
- **An accident may occur if the tractor is suddenly braked, such as by heavy towed loads shifting forward or loss of control.**
- **The braking characteristics are different between two and four wheel drive. Be aware of the difference and use carefully.**

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STOPPING

■Stopping

1. Slow down the engine.
2. Step on the clutch and brake pedal.
3. After the tractor has stopped, disengage the PTO, lower the implement to the ground, shift the transmission to neutral, release the clutch pedal, and set the parking brake.

CHECK DURING DRIVING

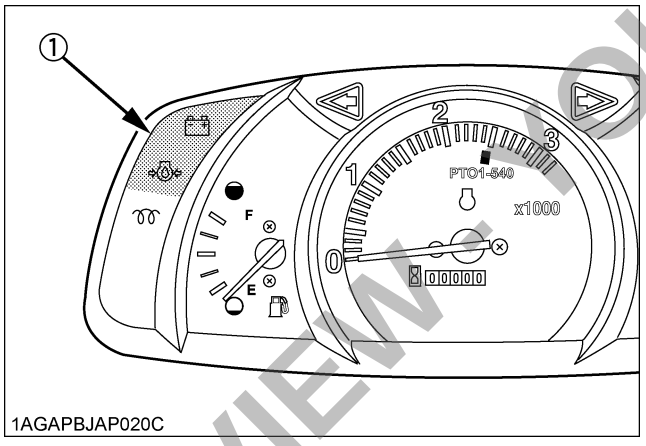
■Immediately Stop the Engine if:

- The engine suddenly slows down or accelerates,
- Unusual noises are suddenly heard,
- Exhaust fumes suddenly become very dark,

■Easy Checker(TM)

If the indicators in the Easy Checker(TM) come on during operation, immediately stop the engine, and find the cause as shown below.

Never operate the tractor while Easy Checker(TM) lamp is on.



1AGAPBJAP020C

(1) Easy checker(TM)

Engine oil pressure
If the oil pressure in the engine goes below the prescribed level, the indicator in the Easy Checker(TM) will come on.
If this should happen during operation, and it does not go off when the engine is accelerated to more than 1000 rpm, check level of engine oil.
(See "Checking Engine Oil Level" in "DAILY CHECK" in "PERIODIC SERVICE" section.)

Electrical charge
If the alternator is not charging the battery, the indicator in the Easy Checker(TM) will come on.
If this should happen during operation, check the electrical charging system or consult your local KUBOTA Dealer.

NOTE :

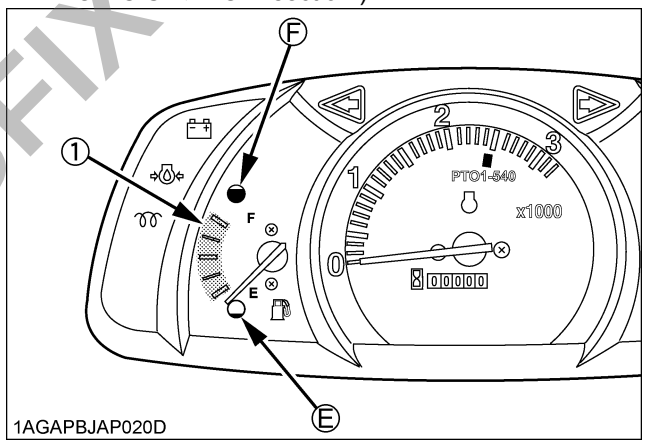
- For checking and servicing of your tractor, consult your local KUBOTA Dealer for instructions.

■Fuel Gauge

When the key switch is on, the fuel gauge indicates the fuel level.

Be careful not to empty the fuel tank. Otherwise air may enter the fuel system.

Should this happen, the system should be bled. (See "Bleeding Fuel System" in "SERVICE AS REQUIRED" in "PERIODIC SERVICE" section.)



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(1) Fuel gauge *(E) "EMPTY"* *(F) "FULL"*

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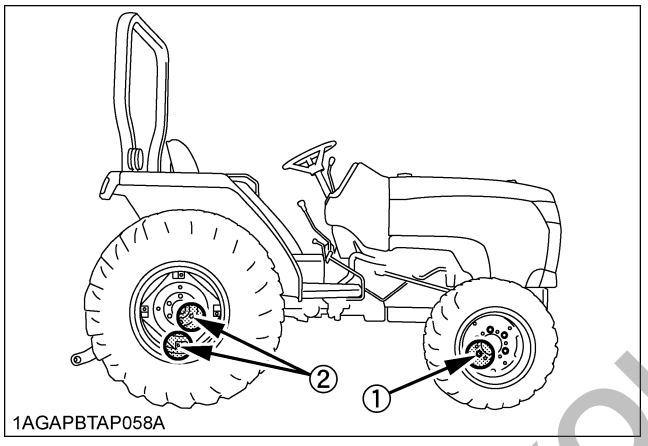
■Checking Wheel Bolt Torque

CAUTION

To avoid personal injury:

- **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.



(1) 137 N-m (14 kgf-m)
(2) 215 N-m (22 kgf-m)

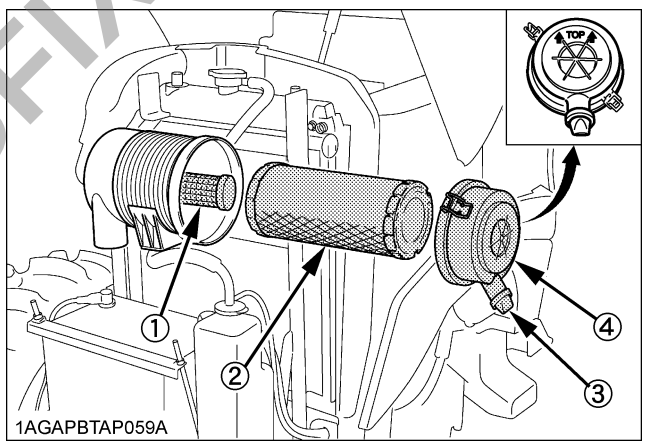
EVERY 100 HOURS

■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/cm^2, 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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