SAFE OPERATION

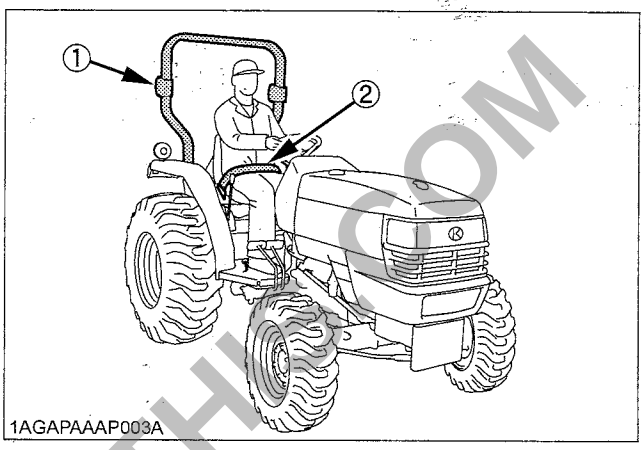
Careful operation is your best insurance against an accident.

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. 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.
   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.)
   If the CAB or ROPS is loosened or removed for any reason, make sure that all parts are reinstalled correctly before operating the tractor.
   Never modify or repair a ROPS because welding, bending, drilling, grinding, or cutting may weaken the structure.
   A damaged CAB or ROPS structure must be replaced, not repaired or revised.
   If any structural member of the CAB or ROPS is damaged, replace the entire structure at your local KUBOTA Dealer.



(1) ROPS
(2) Seat belt

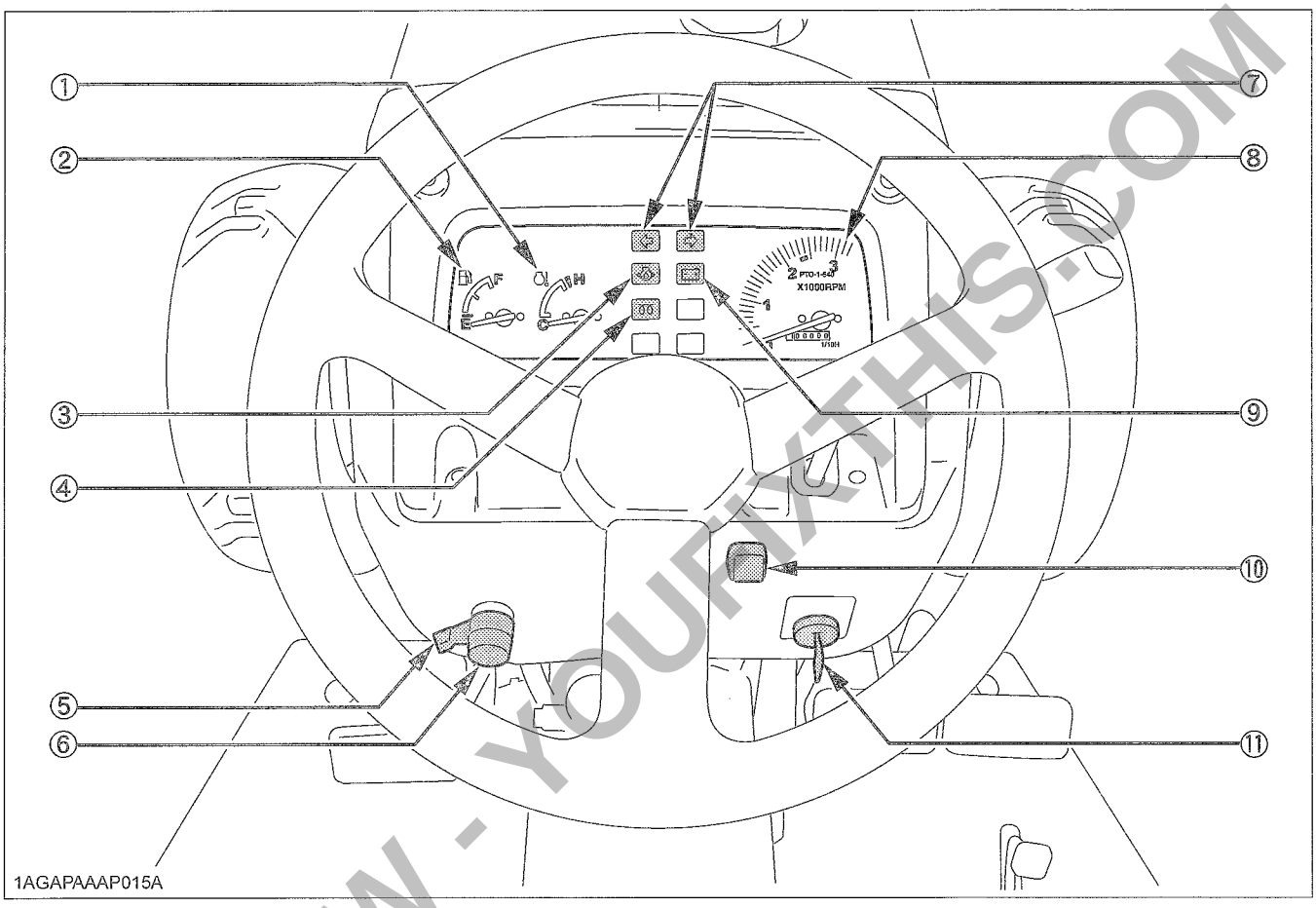
4. Always use the seat belt if the tractor has a CAB or ROPS.
   Do not use the seat belt if a foldable ROPS is down or there is no ROPS. Check the seat belt regularly and replace if frayed or damaged.
5. Do not operate tractor or any implement attached to it while under the influence of alcohol, medication, controlled substances or while fatigued.
6. Carefully check the vicinity before operating tractor or any implement attached to it. Check for overhead clearance which may interfere with a CAB or ROPS. Do not allow any bystanders around or near tractor during operation.
7. Before allowing other people to use your tractor, explain how to operate and have them read this manual before operation.
8. 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.
9. Do not allow passengers to ride on any part of the tractor at anytime. The operator must remain in the tractor seat during operation.
10. Check brakes, clutch, 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.)
11. Keep your tractor clean. Dirt, grease, and trash build up may contribute to fires and lead to personal injury.
12. Use only implements meeting the specifications listed under "IMPLEMENT LIMITATIONS" in this manual or implements approved by KUBOTA.

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INSTRUMENT PANEL AND CONTROLS

Instrument Panel, Switches and Hand Controls



ILLUSTRATED CONTENTS

(1) Coolant temperature gauge..... 26
(2) Fuel gauge..... 26
(3) Engine oil Pressure lamp..... 10
(4) Glow plug indicator..... 10
(5) Turn signal switch..... 19
(6) Head light switch..... 19
(7) Turn signal / Hazard light indicator..... 19
(8) Hourmeter / Tachometer..... 27
(9) Electrical charge lamp..... 10
(10) Hazard light switch..... 19
(11) Key switch..... 10

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PRE-OPERATION CHECK

DAILY CHECK

To prevent trouble from occurring, it is important to know the condition of the tractor well. Check it before starting.

CAUTION

To avoid personal injury:

- **Be sure to check and service the tractor on a level surface with the engine shut off and the parking brake "ON" and implement lowered to the ground.**

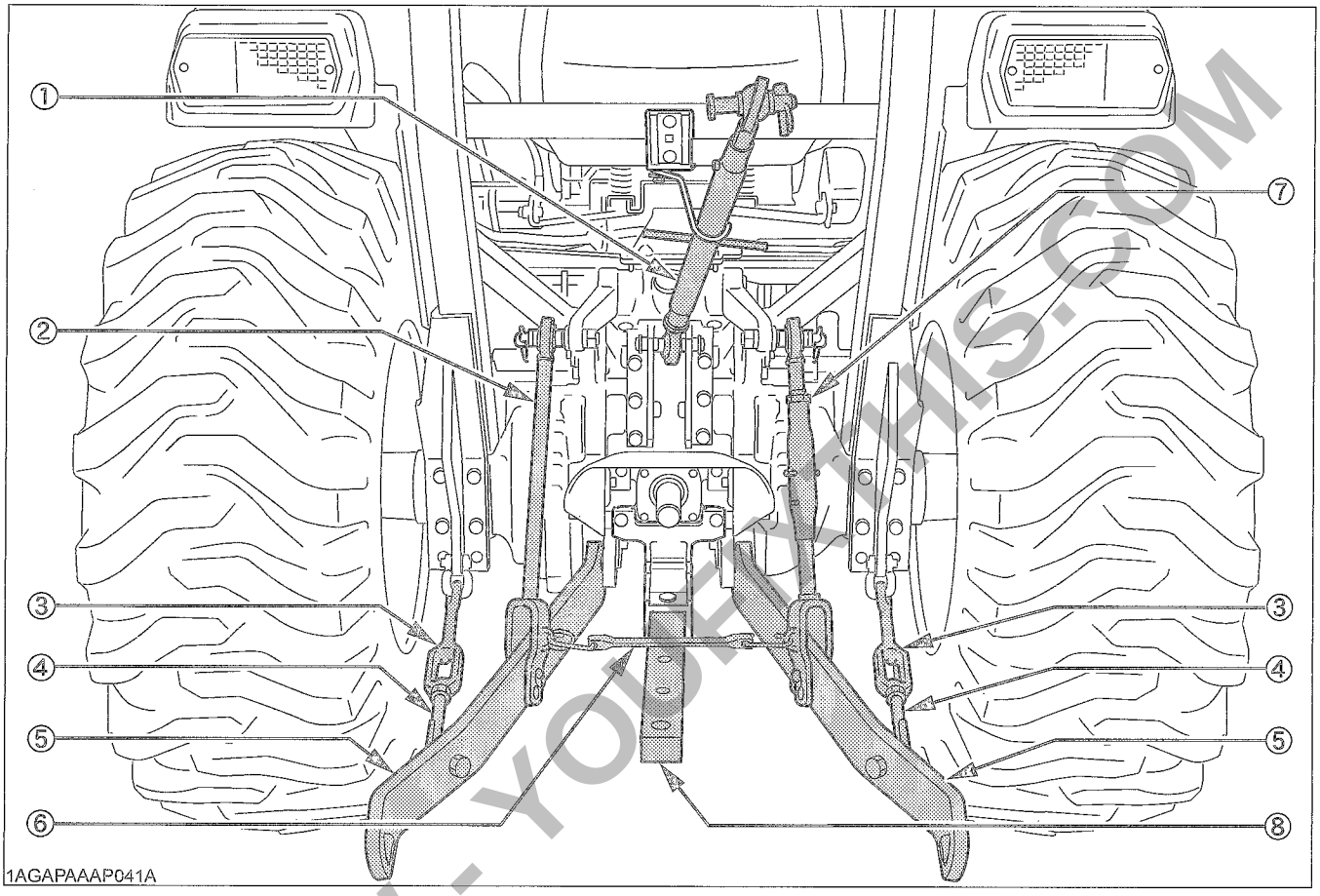
Check item

- Walk around inspection
- Check engine oil level
- Check transmission oil level
- Check coolant level
- Clean grill and radiator screen
- Clean oil cooler
- Check air cleaner evacuator valve
  (When used in a dusty place)
- Check brake pedal
- Check indicators, gauges and meter
- Check lights
- Check seat belt and ROPS
- Refuel
  (See "DAILY CHECK" in Periodic Service section)
- Care of danger, warning and caution labels
  (See "DANGER, WARNING AND CAUTION LABELS" in Safe Operation section)

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THREE-POINT HITCH & DRAWBAR



(1) Top link
(2) Lifting rod(Left)
(3) Turn buckle
(4) Check chains
(5) Lower link
(6) Lower link holder
(7) Lifting rod(Right)
(8) Drawbar

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SPECIFICATIONS

SPECIFICATION TABLE

Model				L2800			L3400		
				Manual Transmission		HST	Manual Transmission		HST
				2WD	4WD	4WD	2WD	4WD	4WD
PTO power*			kW (HP)	17.9 (24.0)		16.8 (22.5)	21.6 (29.0)		20.5 (27.5)
Engine	Maker			KUBOTA					
	Model			D1403-M-E2A			D1703-MA-E2A		
	Type			Indirect injection, Vertical, Water-Cooled 4 cycle diesel					
	Number of cylinders			3					
	Bore and stroke		mm (in)	80 X 92.4 (3.1 x 3.6)			87 x 92.4 (3.4 x 3.6)		
	Total displacement		L (cu.in.)	1.393 (85.0)			1.647 (100.5)		
	Engine gross power*		kW (HP)	21.6 (29.0)			25.9 (34.7)		
	Engine net power*		kW (HP)	20.5 (27.5)			24.8 (33.3)		
	Rated revolution		rps (rpm)	46.7 (2800)			45.0 (2700)		
	Maximum torque		N-m (ft-lb)	89.2 (65.8)			108.3 (79.9)		
	Battery			12V. RC : 123 min, CCA : 490 A					
	Fuel			Diesel fuel No.1-D, No.2-D					
Capacities	Fuel tank		L (U.S.gals.)	34 (9.0)					
	Engine crankcase (with filter)		L(U.S.qts.)	5.7 (6.0)					
	Engine coolant		L (U.S.qts.)	6.0 (6.3)					
	Transmission case		L (U.S.gals.)	27.0 (7.1)	27.5 (7.3)	23.5 (6.2)	27.0 (7.1)	27.5 (7.3)	23.5 (6.2)
Dimensions	Overall length (without 3p)		mm (in.)	2810 (110.6)	2705 (106.5)		2810 (110.6)	2705 (106.5)	
	Overall width (min.tread)		mm (in.)	1305 (51.4)					
	Overall height (with ROPS)		mm (in.)	2160 (85.0)					
	Overall height (Top of steering wheel)		mm (in.)	1475 (58.1)					
	Wheel base		mm (in.)	1610 (63.3)					
	Min. ground clearance		mm (in.)	345 (13.6)	340 (13.4)		345 (13.6)	340 (13.4)	
	Tread	Front	mm (in.)	1050 (41.3)	1095 (43.1)		1050 (41.3)	1095 (43.1)	
		Rear	mm (in.)	1020 (40.2), 1115 (43.8), 1195 (47.1), 1290 (50.8)					
Weight (with ROPS)			kg (lbs.)	1070(2359)	1150(2536)	1180(2600)	1090(2403)	1170(2580)	1180(2600)
Traveling system	Tires	AG Front		5.00 - 15	7 - 16		5.00 - 15	7 - 16	
		AG Rear		11.2 - 24					
	Indust. (option)	Front		N / A	27 x 8.50 - 15		N / A	27 x 8.50 - 15	
		Rear		N / A	15 - 19.5R4		N / A	15 - 19.5R4	
	Clutch			Dry type Single stage			Dry type Dual stage		Dry type Single stage
	Steering			Integral type power steering					
	Transmission			Gear shift, 8 forward and 4 reverse		Hydrostatic transmission, 3 range speed	Gear shift, 8 forward and 4 reverse		Hydrostatic transmission, 3 range speed
	Brake			Wet disk type					
	Min. turning radius (with brake)			2.4 (7.9)	2.5 (8.2)		2.4 (7.9)	2.5 (8.2)	
Hydraulic unit	Hydraulic control system			Position control					
	Pump capacity (main)		L / min (gal / min)	24.7 (6.5)			23.9 (6.3)		
	Pump capacity (PS)		L / min (gal / min)	15.0 (4.0)			14.5 (3.8)		
	Three point hitch			Category 1					
	Max. lift force	At lift points	kg (lbs.)	906 (1998)					
		24in. behind lift points	kg (lbs.)	651 (1435)					
	System pressure		MPa (kgf / cm^2)	15.7 (160)					
PTO	Rear PTO	PTO shaft size		SAE 1-3 /8, 6-splines					
		Type		Transmission driven with overrunning clutch		Live-continuous with overrunning clutch	Live-continuous running		Live-continuous with overrunning clutch
	PTO / Engine speed		rpm	540 / 2430		540 / 2580	540 / 2425		540 / 2580

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MAINTENANCE

SERVICE INTERVALS

No.	Items		Indication on hour meter														Since then	Ref. page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Engine oil	Change	◎	○		○		○		○		○		○		○	every 100 Hr	52		
2	Engine oil filter	Replace	◎			○				○				○			every 200 Hr	57		
3	Hydraulic oil filter	Replace	◎			○				○				○			every 200 Hr	57		
4	HST oil filter	Replace	◎			○				○				○			every 200 Hr	57		
5	Transmission fluid	Change	◎							○							every 400 Hr	61		
6	Front axle case oil (4WD)	Change	◎							○							every 400 Hr	62		
7	Front axle pivot	Adjust												○			every 600 Hr	63		
8	Greasing	-	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	49		
9	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	50		
10	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	51		
11	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	55	*5	
12	Air cleaner element	Clean		○		○		○		○		○		○		○	every 100 Hr	52	*1	@
		Replace															every 1 year	63	*2	
13	Fuel filter element	Clean		○		○		○		○		○		○		○	every 100 Hr	53		@
		Replace								○							every 400 Hr	62		
14	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	53		
15	Clutch	Adjust	◎	○		○		○		○		○		○		○	every 100 Hr	54		
16	Brake	Adjust		○		○		○		○		○		○		○	every 100 Hr	55		
17	Radiator hose and clamp	Check				○				○				○			every 200 Hr	59		
		Replace															every 2 year	65		
18	Power steering oil line	Check				○				○				○			every 200 Hr	59		
		Replace															every 2 year	65		
19	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	54		@
		Replace															every 2 year	65	*3	
20	HST oil Line	Check				○				○				○			every 200 Hr	59		
		Replace															every 2 year	65		
21	Toe-in	Adjust				○				○				○			every 200 Hr	60		
22	Intake air line	Check				○				○				○			every 200 Hr	60		@
		Replace															every 2 year	65	*3	
23	Greasing (2WD front wheel hub)	-								○							every 400 Hr	62		
24	Engine valve clearance	Adjust															every 800 Hr	63	*4	
25	Fuel injection nozzle Injection pressure	Check															every 1500 Hr	63	*4	@
26	Injection pump	Check															every 3000 Hr	63	*4	@
27	Cooling system	Flush															every 2 year	63		
28	Coolant	Change															every 2 year	63		
29	Fuel system	Bleed															Service as required	65		
30	Clutch housing water	Drain																66		
31	Fuse	Replace																66		
32	Light bulb	Replace																67		

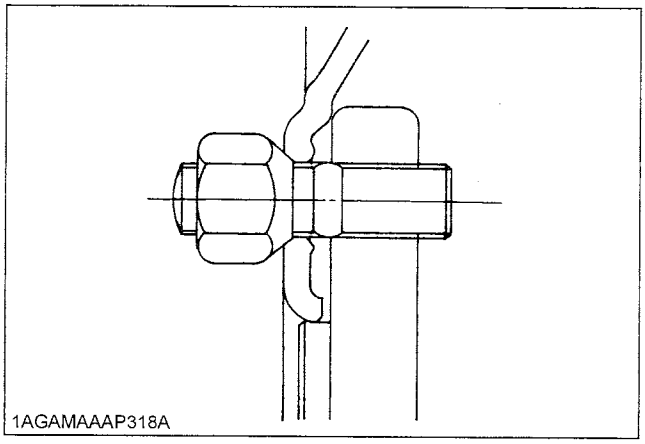
IMPORTANT :

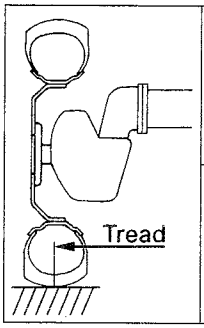
● The jobs indicated by ◎ must be done after the first 50 hours of operation.

*1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.

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Tire	7-16 Farm	25 x 8.5-14 Turf	27 x 8.5-15 IND
Tread	1095mm (43.1in.)	1105mm (43.5in.)	1115mm (43.9in.)

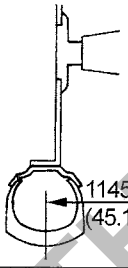
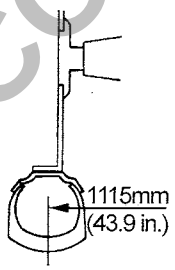
NOTE :
- IND...for Industrial

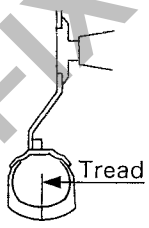
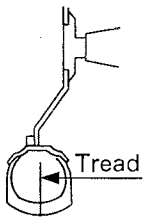
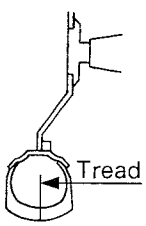
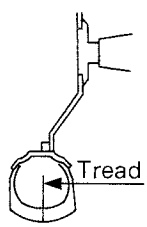
■Rear Wheels

Rear tread width can be adjusted as shown with the standard equipped tires.

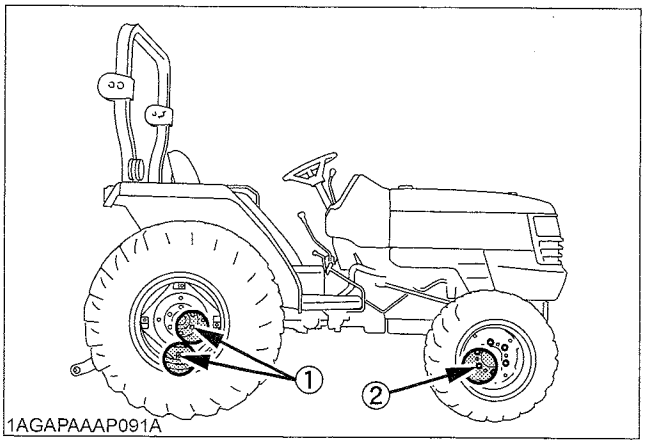
To change the tread width

1. Remove the wheel rim and / or disk mounting bolts.
2. Change the position of the rim and / or disk (right and left) to the desired position, and tighten the bolts.

15-19.5 Industry	13.6-16 Turf
	

11.2-24 Farm			
			
1020mm (40.2in.)	1115mm (43.8in.)	1195mm (47.1in.)	1290mm (50.8in.)

IMPORTANT :
- Always attach tires as shown in the drawings.
- If not attached as illustrated, transmission parts may be damaged.
- When re-fitting or adjusting a wheel, tighten the bolts to the following torques then recheck after driving the tractor 200m (200yards) and thereafter according to service interval.
  (See "MAINTENANCE" section)



(1) 137 N-m (14kgf-m, 100ft-lbs)
(2) 215 N-m (22kgf-m, 160ft-lbs)

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EVERY 100 HOURS

Changing Engine Oil

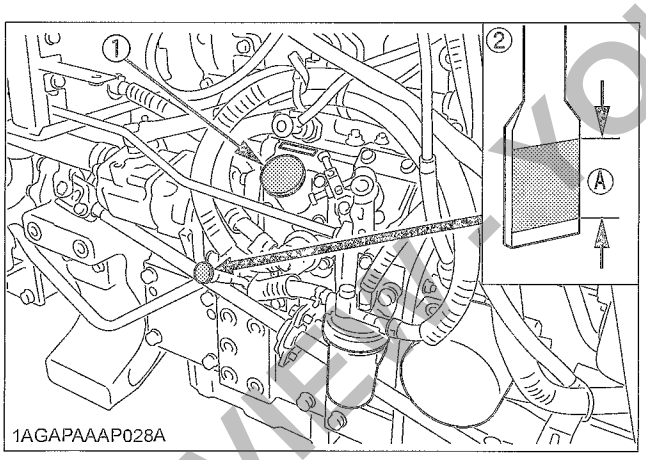
CAUTION

To avoid personal injury:

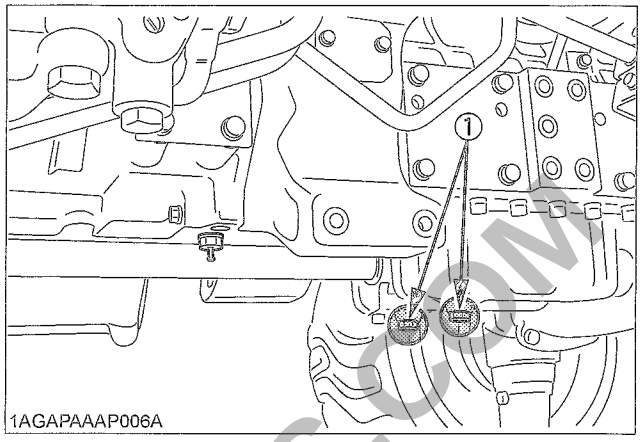
- Be sure to stop the engine before changing the oil.
- Allow engine to cool down sufficiently, oil can be hot and can burn.

1. To drain the used oil, remove the drain plug at the bottom of the engine and drain the oil completely into the oil pan.
   All the used oil can be drained out easily when the engine is still warm.
2. After draining reinstall the drain plug.
3. Fill with the new oil up to the upper notch on the dipstick.
   (See "LUBRICANTS" in Maintenance section)

Model	Oil capacity with filter
L2800	5.7L (6.0 U.S.qts.)
L3400	



(1) Oil inlet
(2) Dipstick
(A) Oil level is acceptable within this range



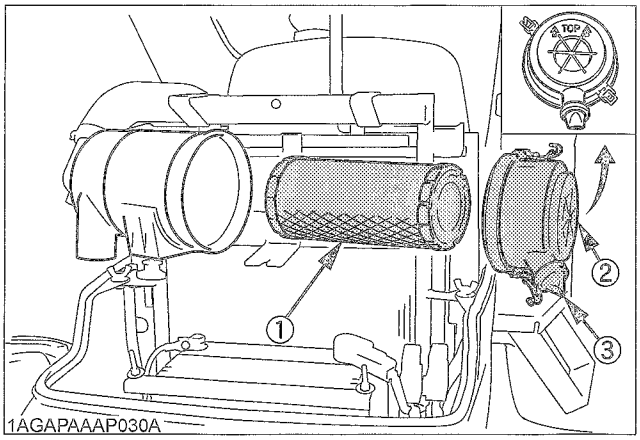
(1) Drain plug

Cleaning Air Cleaner Element [Single Element Type]

1. Remove the air cleaner cover and the element.
2. Clean the 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 element:
   Once yearly or after every sixth cleaning, whichever comes first.

NOTE :

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



(1) Element
(2) Cover
(3) Evacuator valve

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