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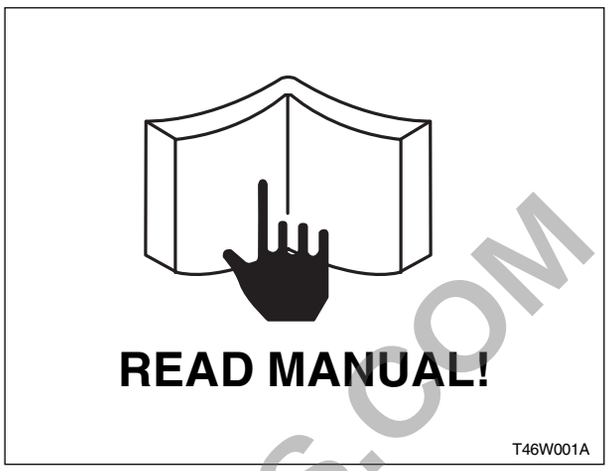
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1. FOR SAFETY

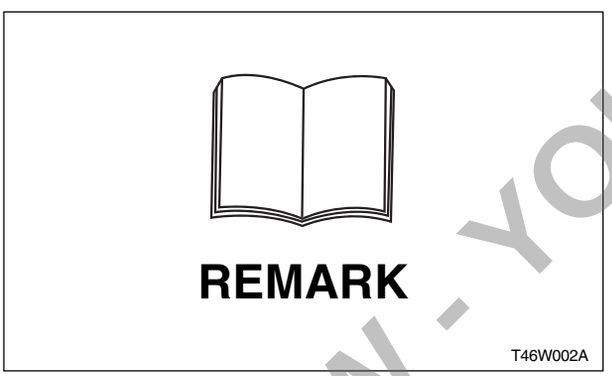
- Most accidents can be avoided if basic safety instructions and regulations are followed. Always follow the safety regulations and avoid any dangerous situation to prevent an accident.
- You can be unexpectedly injured if inspecting or servicing the tractor without full knowledge of it. Read the service manual carefully before starting servicing and follow the instructions for servicing, maintenance and inspection to prevent any injury.



1.1 ALERT SYMBOLS

In this manual, the following safety-alert symbols are used. Their meanings are as follows:

A. REMARK



- Broaden your knowledge with additionally supplied service information for optimal service.

B. CAUTION



- This mark indicates potentially hazardous situation which, if not observed, may result in serious injury.

C. IMPORTANT



- This mark indicates emphasis on information which can be confused when servicing. If this information is not carefully read and observed, the tractor cannot fully function or may be damaged.

D. WARNING



- This mark indicates hazardous situation which, if not observed, may result in death or injury.

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3. SPECIFICATIONS

Model			LK30
Engine	Model		3A150 L X B
	Type		Vertical, water-cooled, 3-cylinder diesel
	Engine gross	HP (kW)	30 (22.3)
	P.T.O	HP (kW)/rpm	23 (17.2) / 2,600
	Displacement	cc (cu.in)	1,500 (91.5)
	Rated revolution	r.p.m min-1	2,600
	Fuel tank capacity	ℓ (gal.)	28 (7.4)
Drive train	Clutch		Dual stage, dry
	Transmission		Shuttle, range shift (constant mesh), main shift (synchro mesh)
	Speeds		8F 8R
	Differential lock		Standard
	Brake		Wet disc type
	P.T.O		Live
	Rear	(rpm)	540, 1,000 (2,600)
Hydraulic system	Pump capacity (Max. flow rate)	ℓ/min (gpm)	48.3 (12.7)
	3-point hitch		SAE. category I
	Maximum lifting capacity (24in. aft of hitch)	kg (lbs)	1,015 (2,238)
	Hydraulic lift control system		Position control
	Steering		Hydrostatic Power Steering
Standard tire size	Front		7 ~ 14 / 6 PR
	Rear		11.2 ~ 24 / 6 PR
Traveling speeds	Forward (At rated engine rpm)	km/h (mph)	1.34 ~ 19.14 (0.83 ~ 11.89)
	Reverse (At rated engine rpm)	km/h (mph)	1.22 ~ 17.45 (0.76 ~ 10.84)
Dimensions	Overall length (with 3p)	mm (in.)	2,830 (111.4)
	Overall width (minimum tread)	mm (in.)	1,314 (51.7)
	Overall height (from top of ROPS)	mm (in.)	2,250 (88.6)
	Wheel base	mm (in.)	1,640 (64.6)
	Min. ground clearance	mm (in.)	10.8 (275)
	Tread Front	mm (in.)	43.5 (1.105)
	Tread Rear	mm (in.)	1,020 ~ 1,268 (40.2 ~ 49.9)
Other opec.	Min. turning radius (without brake)	m (Ft.)	2.8 (9.18)
	Weight (with rops)	kg (lbs.)	1,328 (2,928)
	Max. Drawbar load	kg (lbs.)	500 (1,102)
	Max. Trailer loading weight	kg (lbs.)	1,500 (3,300)

NOTE:

The specifications are subject to change for the purpose of improvement without any notice.

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5. TIGHTENING TORQUES

5.1 GENERAL USE SCREWS, BOLTS AND NUTS

Screws, bolts and nuts whose tightening torques are not specified in this Workshop Manual should be tightened according to the table below.

Indication on top of bolt	4 No-grade or 4T						7 7T						9 9T		
Material of bolt	SS400, S20C						S43C, S48C						SCr435, SCM435		
Material of opponent part	Ordinariness			Aluminum			Ordinariness			Aluminum			Ordinariness		
Unit / Diameter	Nm	kgf-m	lb-ft	Nm	kgf-m	lb-ft	Nm	kgf-m	lb-ft	Nm	kgf-m	lb-ft	Nm	kgf-m	lb-ft
M6 (6 mm, 0.24 in.)	7.85 ~ 9.31	0.80 ~ 0.95	5.79 ~ 6.87	7.85 ~ 8.82	0.80 ~ 0.90	5.79 ~ 6.50	9.81 ~ 11.2	1.00 ~ 1.15	7.24 ~ 8.31	7.85 ~ 8.82	0.80 ~ 0.90	5.79 ~ 6.50	12.3 ~ 14.2	1.25 ~ 1.45	9.05 ~ 10.4
M8 (8 mm, 0.31 in.)	17.7 ~ 20.5	1.8 ~ 2.1	13.1 ~ 15.1	16.7 ~ 19.6	1.7 ~ 2.0	12.3 ~ 14.4	23.6 ~ 27.4	2.4 ~ 2.8	17.4 ~ 20.2	17.7 ~ 20.5	1.8 ~ 2.1	13.1 ~ 15.1	29.5 ~ 34.3	3.0 ~ 3.5	21.7 ~ 25.3
M10 (10 mm, 0.39 in.)	39.3 ~ 45.1	4.0 ~ 4.6	29.0 ~ 33.2	31.4 ~ 34.3	3.2 ~ 3.5	23.2 ~ 25.3	48.1 ~ 55.8	4.9 ~ 5.7	35.5 ~ 41.2	39.3 ~ 44.1	4.0 ~ 4.5	29.0 ~ 32.5	60.9 ~ 70.6	6.2 ~ 7.2	44.9 ~ 52.0
M12 (12 mm, 0.47 in.)	62.8 ~ 72.5	6.4 ~ 7.4	46.3 ~ 53.5				77.5 ~ 90.2	7.9 ~ 9.2	57.2 ~ 66.5	62.8 ~ 72.5	6.4 ~ 7.4	46.3 ~ 53.5	103 ~ 117	10.5 ~ 12.0	76.0 ~ 86.7
M14 (14 mm, 0.55 in.)	108 ~ 125	11.0 ~ 12.8	79.6 ~ 92.5				124 ~ 147	12.6 ~ 15.0	91.2 ~ 108				167 ~ 704	17.0 ~ 20.0	123 ~ 144
M16 (16 mm, 0.63 in.)	167 ~ 191	17.0 ~ 19.5	123 ~ 141				197 ~ 225	20.0 ~ 23.0	145 ~ 166				260 ~ 304	26.5 ~ 31.0	192 ~ 224
M18 (18 mm, 0.71 in.)	246 ~ 284	25.0 ~ 29.0	181 ~ 209				275 ~ 318	28.0 ~ 32.5	203 ~ 235				344 ~ 402	35.0 ~ 41.0	254 ~ 296
M20 (20 mm, 0.79 in.)	334 ~ 392	34.0 ~ 40.0	246 ~ 289				368 ~ 431	37.5 ~ 44.0	272 ~ 318				491 ~ 568	50.0 ~ 58.0	362 ~ 419

5.2 STUD BOLTS

Material of opponent part	Ordinariness			Aluminum		
Unit / Diameter	Nm	kgf-m	lb-ft	Nm	kgf-m	lb-ft
M8 (8 mm, 0.31 in.)	11.8 ~ 15.6	1.2 ~ 1.6	8.68 ~ 11.5	8.82 ~ 11.8	0.90 ~ 1.2	6.51 ~ 8.67
M10 (10 mm, 0.39 in.)	24.6 ~ 31.3	2.5 ~ 3.2	18.1 ~ 23.1	19.7 ~ 25.4	2.0 ~ 2.6	14.5 ~ 18.8
M12 (12 mm, 0.47 in.)	29.5 ~ 49.0	3.0 ~ 5.0	21.7 ~ 36.1	31.4	3.2	23.1

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7. MAINTENANCE CHECK LIST

No.	Item \ Maintenance interval		Run hour								Run age		Remarks	
			50	100	200	400	600	800	1500	3000	1 year	2 year		
1	Engine oil	Change	⊙	●										
2	Engine oil filter	Replace	⊙		●									
3	Transmission oil filter	Replace	⊙		●									
4	HST oil filter	Replace	⊙		●									
5	Transmission fluid	Change	⊙			●								
6	Front axle oil	Change	⊙			●								
7	Front axle pivot	Adjust					●							
8	Engine start system	Check	●											
9	Greasing	Apply	●											
10	Wheel bolt torque	Check	●											
11	Battery condition	Check		●									*3	
12	Air cleaner element	Clean		●									*1	#
		Replace									●		*2	
13	Fuel filter element	Replace			●									#
14	Fan belt	Adjust		●									*3	
15	Clutch pedal free play	Adjust	⊙	●										
16	Brake pedal free play	Adjust		●										
17	Radiator hose and clamp	Check			●									
		Replace										●		
18	Power steering hose and oil line	Check			●									
		Replace										●		
19	Fuel line	Check		●										#
		Replace										●		
20	Intake air hose	Check			●									
		Replace										●	*3	
21	Toe-in	Adjust			●									
22	Engine valve clearance	Adjust						●						
23	Fuel injection nozzle injection pressure	Check							●					#
24	Injection pump	Check								●				#
25	Cooling system	Clean										●		
26	Coolant	Replace										●		
27	Fuel system	Check											*3	
28	Fuse	Replace											*3	
29	Light bulb	Replace											*3	
30	Tire pressure	Check											*3	

IMPORTANT FOR INTERVAL

- ***⊙ must be performed after the initial 50 hours of operation.***

  ****1 The air cleaner should be cleaned more frequently a in dusty condition than in a normal condition.***

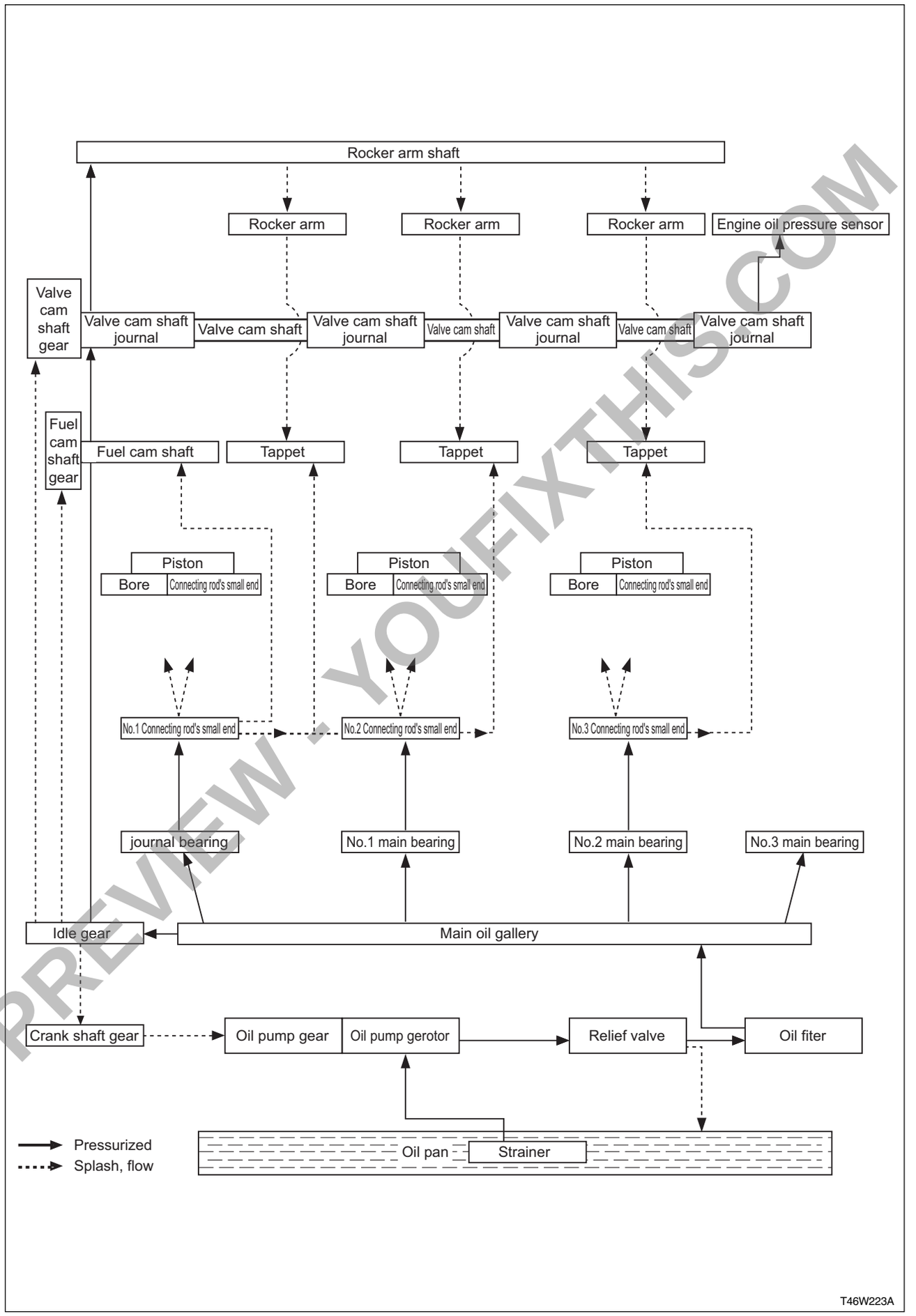
  ****2 Every year or every 5 times of cleaning.***

  ****3 Replace only if necessary.***

- ***The items listed above (# marked) are registered as emission related critical parts by KIOTI in the U.S.EPA exhaust emission standards non-road emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.***

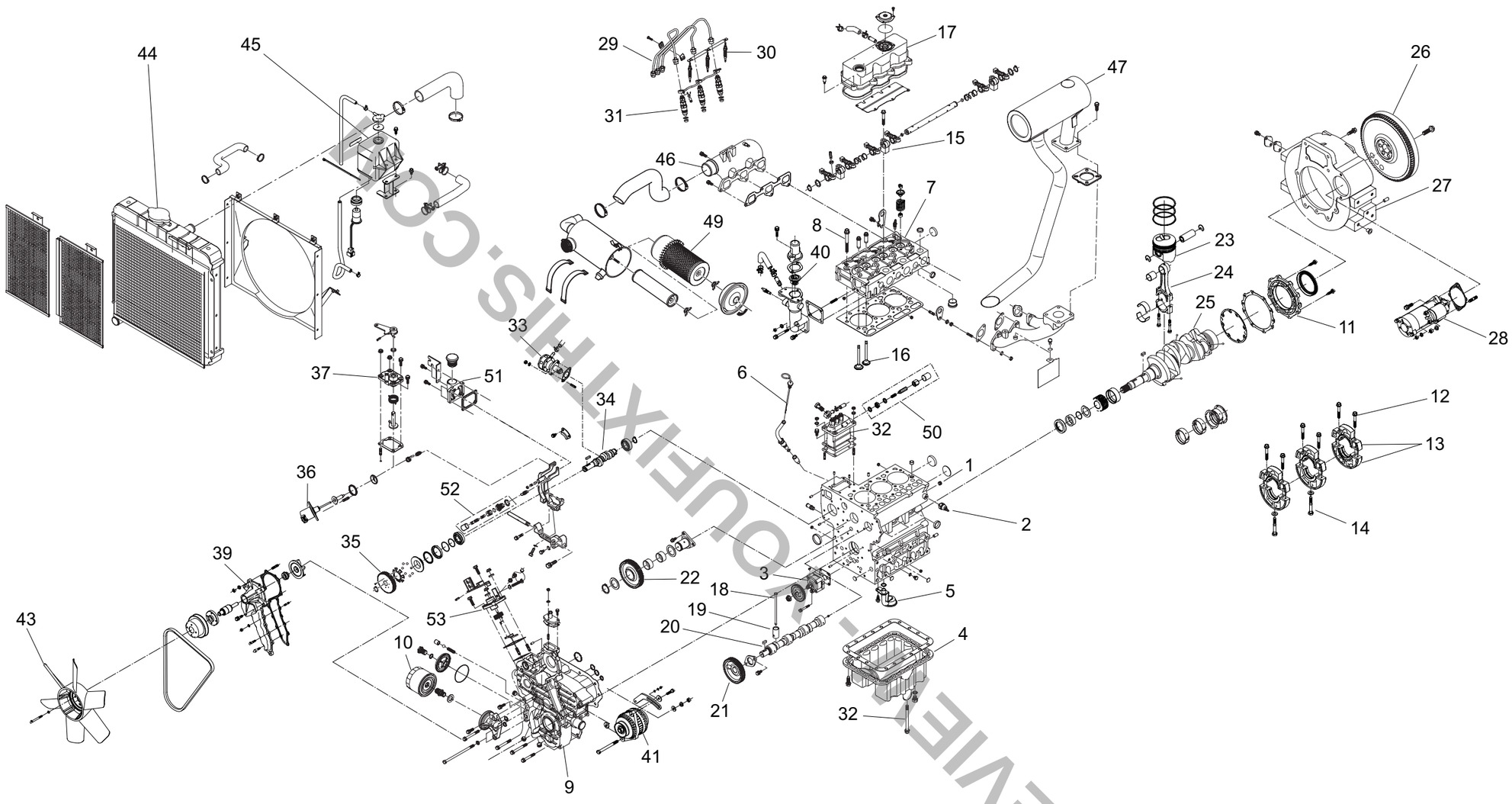
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3.2.1 ENGINE OIL FLOW



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6. EXPLODED VIEW (LK30)



(1) Cylinder block
(2) Oil pressure switch
(3) Oil pump
(4) Oil pan
(5) Oil strainer
(6) Oil gauge
(7) Cylinder head
(8) Head bolt
(9) Gear case
(10) Oil filter
(11) Main bearing case cover
(12) Bearing case bolt 1
(13) Main bearing case
(14) Bearing case bolt 2
(15) Rocker arm
(16) Inlet, exhaust valve
(17) Cylinder head cover
(18) Push rod
(19) Tappet
(20) Camshaft
(21) Camshaft gear
(22) Idle gear
(23) Piston
(24) Connecting rod
(25) Crankshaft
(26) Flywheel
(27) Flywheel housing
(28) Starter
(29) Injection pipe
(30) Glow plug
(31) Nozzle
(32) Fuel Injection pump
(33) Fuel feed pump
(34) Fuel camshaft
(35) Fuel camshaft gear
(36) Engine stop solenoid
(37) Speed control plate
(38) Fork lever (Governor)
(39) Impeller
(40) Thermostat
(41) Alternator
(42) Fan drive pulley
(43) Cooling fan
(44) Radiator
(45) Reserve tank assembly
(46) Inlet manifold
(47) Muffler
(48) Exhaust manifold
(49) Air cleaner
(50) Idle limit system
(51) Oil filler flange
(52) Fuel control limit

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7. SERVICING

7.1 DISASSEMBLING AND MAINTENANCE

7.1.1 DRAINING THE ENGINE OIL

CAUTION

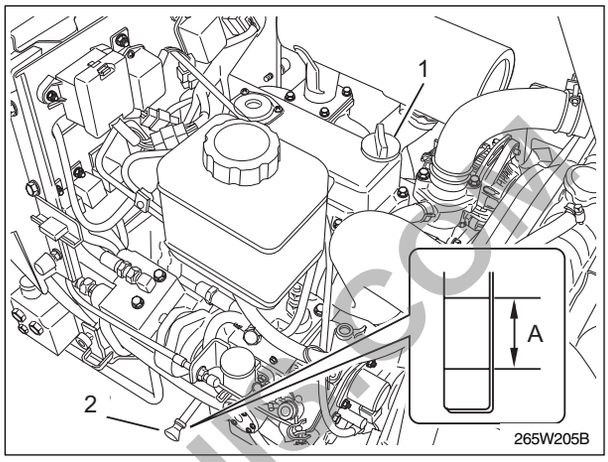
To avoid personal injury:

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

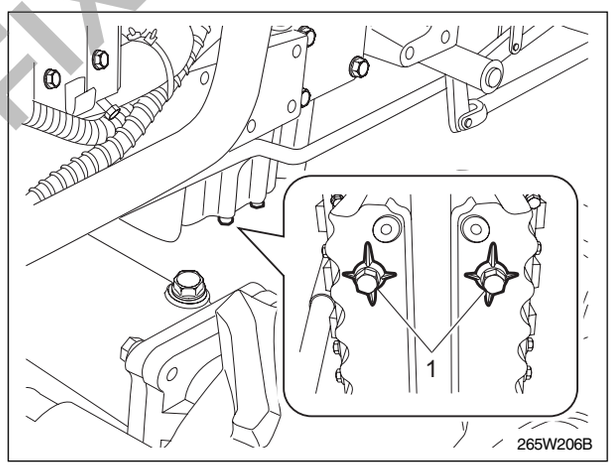
1. To drain the used oil, remove the drain plug at the bottom of the engine and drain the oil completely into the oil pan.

   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.

Item	Specified
Oil capacity with filter	5.8ℓ (1.53 U.S.gal.)



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



(1) Drain plug

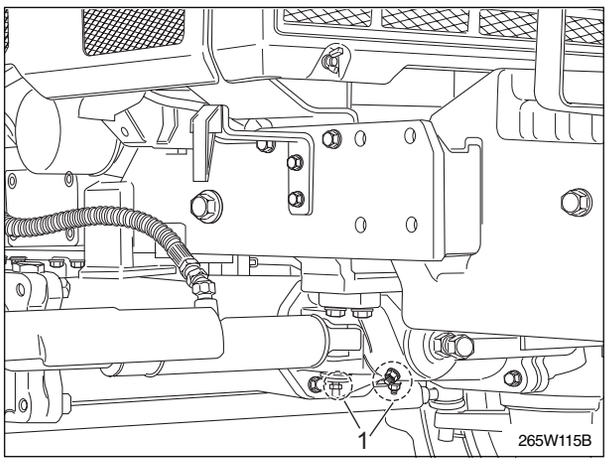
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8.2 EVERY 50 HOURS

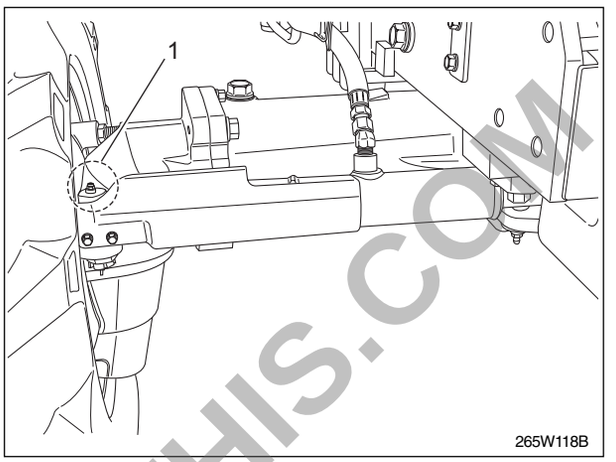
8.2.1 LUBRICATING GREASE FITTINGS

Apply a small amount of multipurpose grease to the following points every 50 hours:

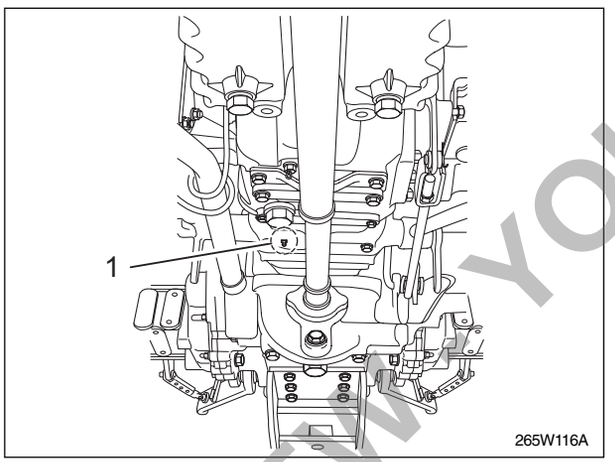
If you operated the machine in extremely wet and muddy conditions, lubricate grease fittings more often.



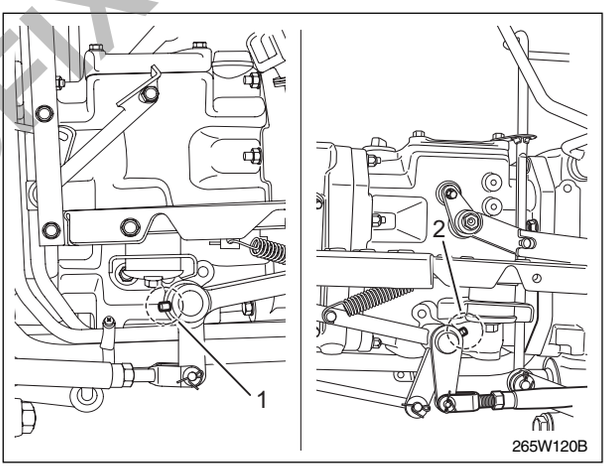
(1) Grease fitting (Power steering cylinder - RH, LH)



(1) Grease fitting (Power steering cylinder - RH, LH)

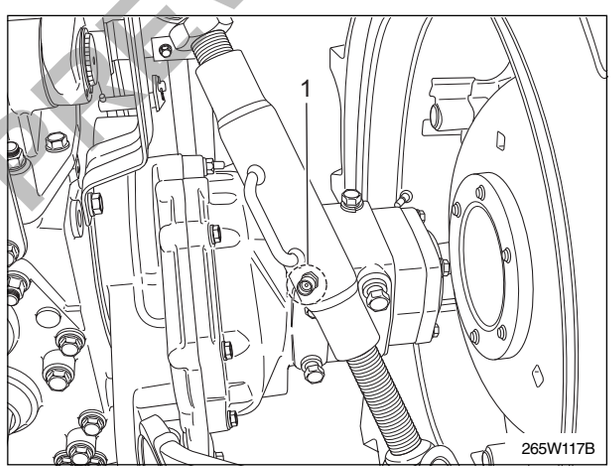


(1) Grease fitting (Brake pedal shaft)

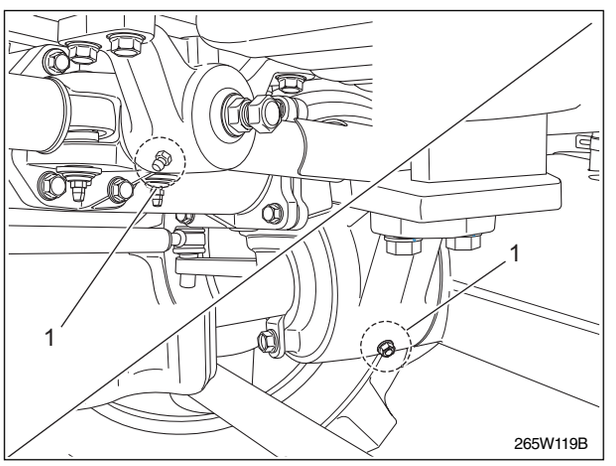


(1) Grease fitting (Brake pedal (RH))

(2) Grease fitting (Clutch pedal)



(1) Grease fitting (Lift rod)



(1) Grease fitting (Front/Rear bracket)

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3.3.2 THERMOSTAT

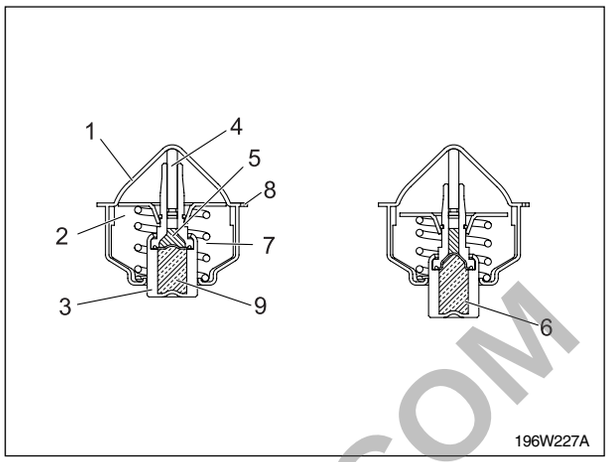
The thermostat is wax pellet type, which controls the flow of the cooling water to the radiator to keep the proper temperature. The case has a seat (1) and the pellet has a valve (2). The spindle attached to the case is inserted into the synthetic rubber in the pellet. The pellet is charged with wax.

(A) At low temperature (lower than 71°C (160°F))

The valve (2) is seated by the spring (7) and the cooling water circulates in the engine through the water return pipe but does not engine the radiator.

(B) At high temperature (higher then 71°C (160°F))

As the water temperature rises, the wax in the pellet (3) turns liquid and expands, repelling the spindle. The pellet lowers and the valve (2) opens to send the cooling water to the radiator.

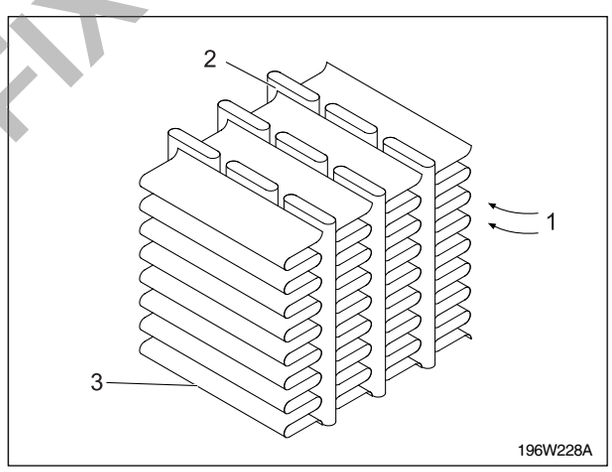


(1) Seat
(2) Valve
(3) Pellet
(4) Spindle
(5) Synthetic rubber
(6) Wax (Solid)
(7) Spring
(8) Leak hole
(9) Wax (Liquid)

3.3.3 RADIATOR

The radiator core consists of water caring tubes (2) with fins (3) at a right angle to it.

The air flowing through between the tube wall and the fin cools the water in the radiator.



(1) Cooling air
(2) Tube
(3) Fin

3.3.4 RADIATOR CAP

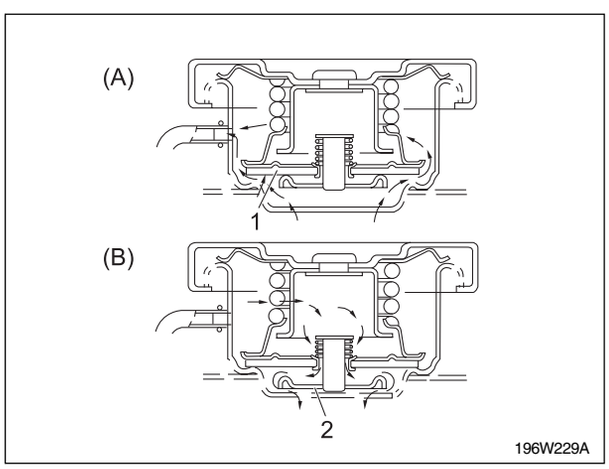
The pressure type cap is installed on the radiator, which prevents the pressure difference between the inside and the outside of the radiator from deforming the radiator.

(A) At high pressure(higher than 88 kPa (0.9 kgf/cm², 13 psi))

When the water temperature rises and the pressure in the radiator increase above the specified pressure, the pressure valve (1) opens to reduce the internal pressure.

(B) At low pressure

When the water temperature falls and a vacuum is formed in the radiator, the vacuum valve (2) opens to allow the air to enter the radiator.



(1) Pressure valve
(2) Vacuum valve

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8.9.2 ANTI-FREEZE

Should never run water only; water has no rust prevention. Always run proper water/antifreeze mix.

1. There are two types of anti-freeze available; use the permanent type (PT) for this engine.
2. Before adding anti-freeze for the first time, clean the radiator interior by flushing with fresh water a few times.
3. The procedure for mixing of water and anti-freeze differs according to the make of the anti-freeze and the ambient temperature. Basically it should be referred to SAE J1034 standard, more specifically also to SAE J814c.
4. Mix the anti-freeze with water, and then fill the radiator with the mixture.

Vol % Anti-freeze	Freezing Point		Boiling Point*	
	°C	°F	°C	°F
40	-24	-12	106	222
50	-37	-34	108	226

* At 760 mmHg pressure (atmospheric). A higher boiling point is obtained by using a radiator pressure cap which permits the development of pressure within the cooling system.

NOTE:

- ***SAE J1034 and SAE J814c are industry standards that necessitate a minimum glycol content in the concentrated anti-freeze.***
- ***When the cooling water level drops due to evaporation, add water only. In case of leakage, add anti-freeze and water in the specified mixing ratio.***
- ***Anti-freeze absorbs moisture. Keep unused anti-freeze in a tightly sealed container.***
- ***Do not use radiator cleaning agents when anti-freeze has been added to the cooling water. (Anti-freeze contains an anti-corrosive agent, that will react with the radiator cleaning agent forming sludge which will affect the engine parts.)***

8.9.3 REPLACING RADIATOR HOSE (WATER PIPES)

Replace the hoses and clamps.

(See “Checking Radiator Hose and Clamp” in every 200 hours maintenance.)

8.9.4 REPLACING POWER STEERING HOSE

Replace the hoses and clamps.

(See “Checking power steering line” in every 200 hours maintenance.)

8.9.5 REPLACING FUEL HOSE

Replace the hoses and clamps.

(See “Checking Fuel line” in every 100 hours maintenance.)

8.9.6 REPLACING INTAKE AIR HOSE

Replace the hoses and clamps.

(Refer to “every 200 hours”)

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9.2 TREAD

9.2.1 FRONT WHEELS

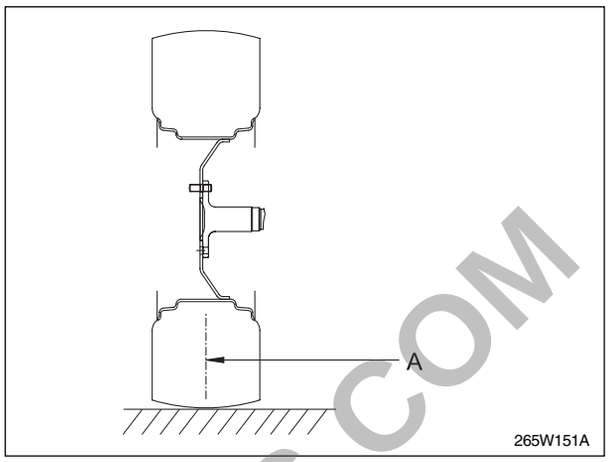
Front tread can not be adjusted.

IMPORTANT

- ***Do not turn front discs to obtain wider tread.***

Tire	Tread
7 - 14 Farm	1,115 mm (43.9 in.)
27 x 8.50 - 15 Turf	1,161 mm (45.7 in.)
25 x 8.50 - 14 IND	1,180 mm (46.5 in.)

** IND... for Industrial*



(A) Tread

9.2.2 REAR WHEELS

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

To change the tread width

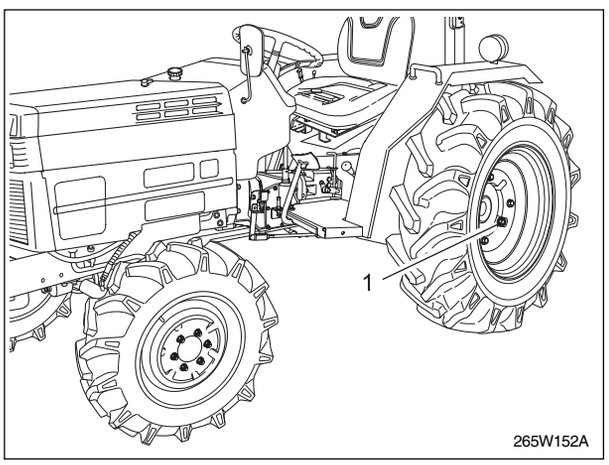
1. Remove the wheel rim and / or disk mounting bolts.
2. Change the position of the rim and / or disk (right and left) to the desired position, and then tighten the bolts.

Model	A	A	A	A	A
11.2 - 24 Farm	1,020 mm (40.2 in.)	1,060 mm (41.7 in.)	1,134 mm (44.7 in.)	1,150 mm (45.3 in.)	1,268 mm (49.9 in.)

(A) Tread

Model	A
13.6 - 16 Turf	1,145 mm (45.1 in.)
41 x 14.0 - 20 Turf	1,174 mm (46.2 in.)
15 - 19.5 IND	1,202 mm (47.3 in.)

(A) Tread



(1) Bolt, Nuts (216 Nm, 22 kgf-m, 159 lb-ft)

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 200 m (2219 yards) and thereafter according to service interval.***

  (See "MAINTENANCE" section)

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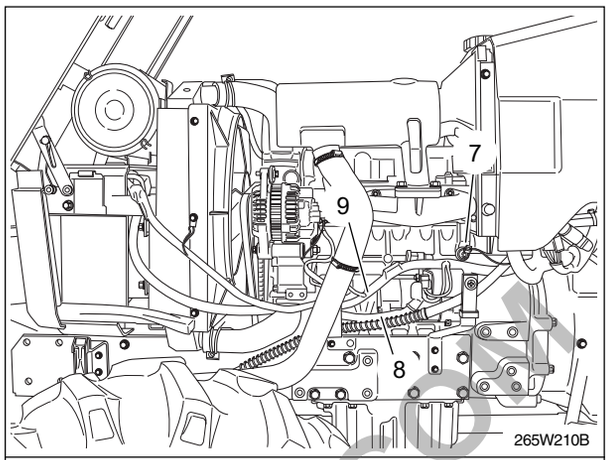
7.1.4 HYDRAULIC PIPE AND ELECTRIC WIRING

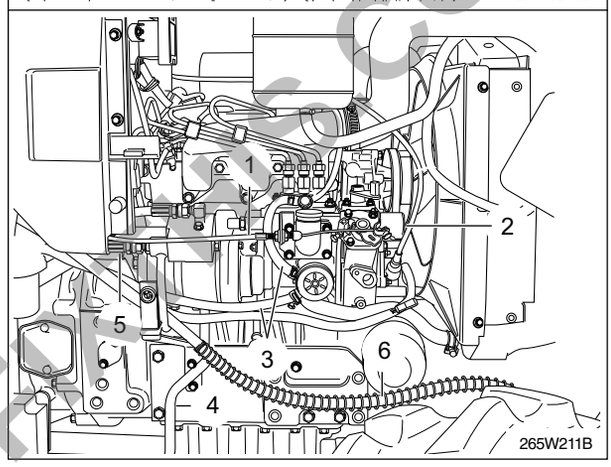
1. Remove the throttle rod.
2. Disconnect the engine accelerator wire (1).
3. Disconnect the tachometer cable (2).
4. Disconnect the fuel hose (3).
5. Remove the inlet pipe1 (4).
6. Remove the deliver pipe assembly (5).
7. Disconnect the brake switch.
8. Disconnect the steering hose(R) (6).
9. Disconnect the oilpress wire (7).
10. Disconnect the steering hose(L) (8).
11. Disconnect the engine wire harness (9).

(When reassembling)

- A hose classification
  - Steering hose R : A yellow tag attachment
  - Steering hose L : A red tag attachment

Item	Tightening torque
Steering hose R, L	9.8 Nm 1.0 kgf-m 7.2 lb-ft
Pipe bend	9.8 Nm 1.0 kgf-m 7.2 lb-ft
Joint pipe	53.36 ~ 68.646 Nm 5.5 ~ 7.0 kgf-m 39.78 ~ 50.63 lb-ft





(1) Engine accelerator wire
(2) Tachometer cable
(3) Fuel hose
(4) Inlet pipe1
(5) Deliver pipe assembly
(6) Steering hose (R)
(7) Oil press wire
(8) Steering hose (L)
(9) Engine wire harness

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4. CHECKING AND ADJUSTMENT

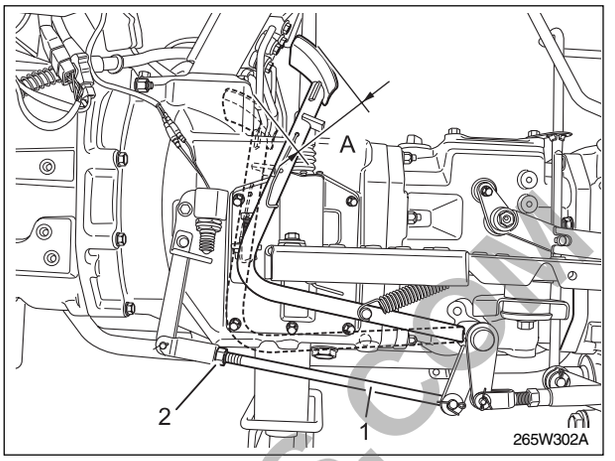
4.1 CLUTCH PEDAL PLAY ADJUSTMENT

1. Press clutch pedal (1) by hand and measure (A) at the end of pedal.
2. If the measurement is not within the factory specifications, loosen lock nut (3), of clutch rod (2), adjust the clutch rod (2) length.
3. Retighten the lock nut (3).

Item	Specified
Clutch pedal play (A)	20 ~ 30 mm 0.79 ~ 1.18 in.

NOTE

- ***After adjustment, tighten the lock nut on the clutch rod firmly.***



(1) Clutch pedal (2) Clutch rod
(3) Lock nut

4.2 CLUTCH PEDAL TRAVELING

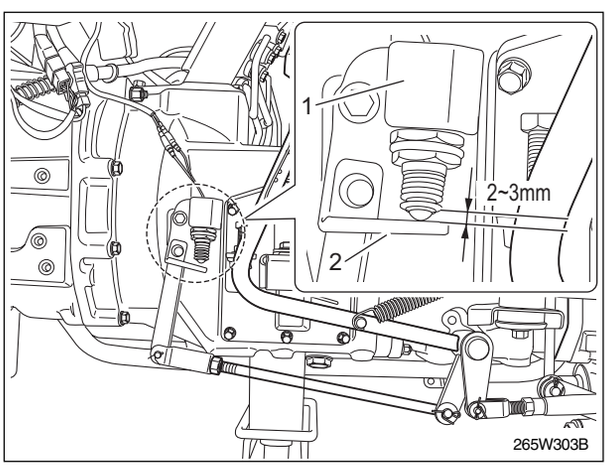
1. Depress the clutch pedal to the stroke end.
2. Start the engine and set the speed at 1,800 to 2,000 rpm.
3. Shift the PTO speed change lever to the 1st or 2nd range.
4. Return the clutch pedal slowly to the position that the PTO shaft begins to rotate.
5. Depress the clutch pedal a little from the position found in procedure 4.
6. In this position, check that the clutch pedal contacts with the clutch pedal stopper bolt.
7. If the clutch pedal does not contact the stopper bolt, turn the stopper bolt to adjust.
8. After adjustment, tigten the stopper bolt firmly.

4.3 ADJUSTMENT OF SAFETY SWITCH

1. Depress clutch pedal to the stroke end.
2. Measure the clearance of safety switch and clutch pedal lever with a sale or vernier calipers.
3. If the clearance is not within the factory specifications, move the switch bracket to adjust.
4. After adjustment, check that the starter runs when clutch pedal is depressed to the stroke end and turn the main switch to start position.

Item	Factory spec.
Clearance of safety switch and clutch lever	2 ~ 3 mm 0.0118 ~ 0.0157 in.

(when depressing clutch pedal to the stroke end)



(1) Safety switch (2) Clutch pedal lever

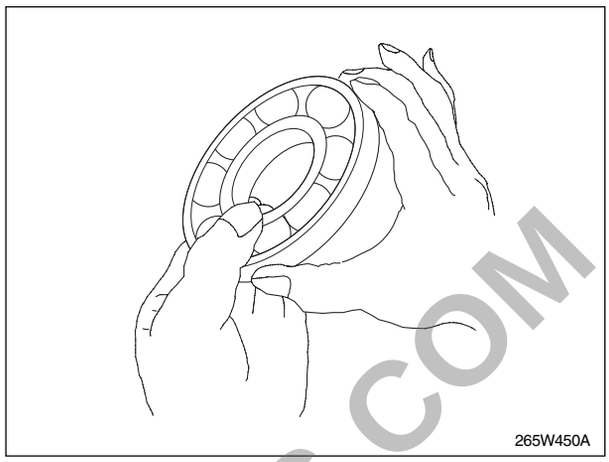
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4.3 SERVICING

4.3.1 BEARING, SHAFT AND GEAR

A. CHECKING BEARING

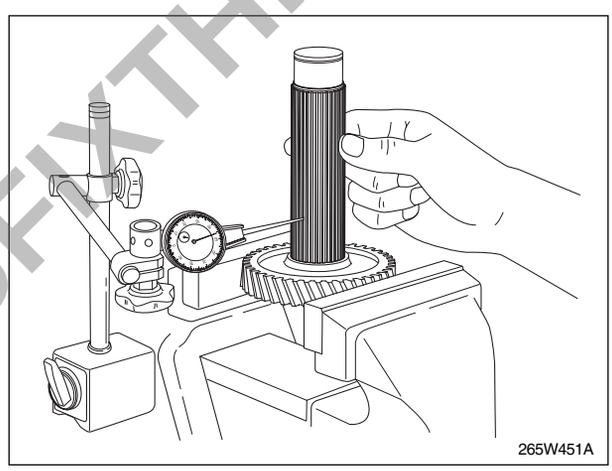
1. Hold the inner race, and push and pull the outer race in all directions to check for wear and roughness.
2. Apply transmission fluid to the bearing, and hold the inner race. Then, turn the outer race to check rotation.
3. If there is any defect, replace it.



B. CLEARANCE BETWEEN GEAR AND SPLINE OR HUB AND SPLINE

1. Select the gear or the hub in a vise.
2. Set a dial gauge (lever type) with its finger on the spline.
3. Move the shaft (or hub) to measure the clearance.
4. If the clearance exceeds the allowable limit, replace them.

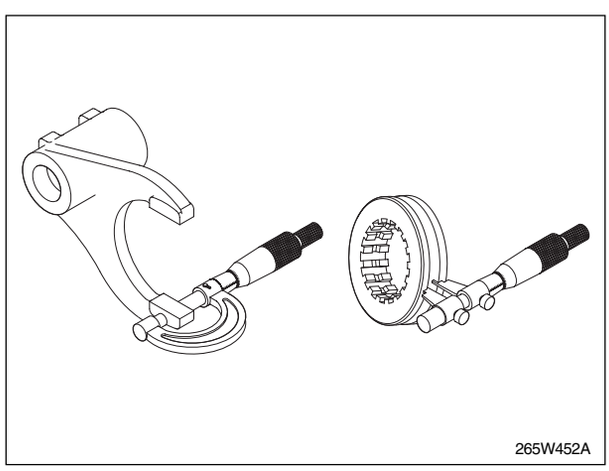
Item	Factory spec.	Allowable limit
Clearance between gear and spline or hub and spline	0.030 ~ 0.078 mm 0.00118 ~ 0.00307 in.	0.20 mm 0.008 in.



C. CLEARANCE BETWEEN SHIFT FORK AND SHIFTER GROOVE

1. Measure the width of shift fork.
2. Measure the shifter groove width, and calculate the clearance.
3. If the clearance exceeds the allowable limit, replace them.

Item	Factory spec.	Allowable limit
Clearance between shift fork and shifter groove	0.1 ~ 0.3 mm 0.004 ~ 0.012 in.	0.20 mm 0.008 in.



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5.1.11 PRE-LOAD OF TAPER ROLLER BEARING ON SPIRAL BEVEL PINION SHAFT

IMPORTANT

- ***If measuring the pre-load of the bearing assembled to the front axle as shown in the figure (A), measure it before inserting the oil seal and installing the 23 bevel gear.***
- ***If measuring the pre-load while securing the spiral bevel shaft and taper roller bearing assembly with a vice as shown in the figure (B), cover the bearing cover with cloth.***

1. After wrapping the pinion shaft with a string, measure the load by pulling the string with a pull scale.

Item	Factory spec.
Load of pull scale	8.3 ~ 10 kgf 18.3 ~ 22 lbs

- When measuring the load by engaging torque wrench to spline of spiral bevel pinion shaft as shown in the figure (C):

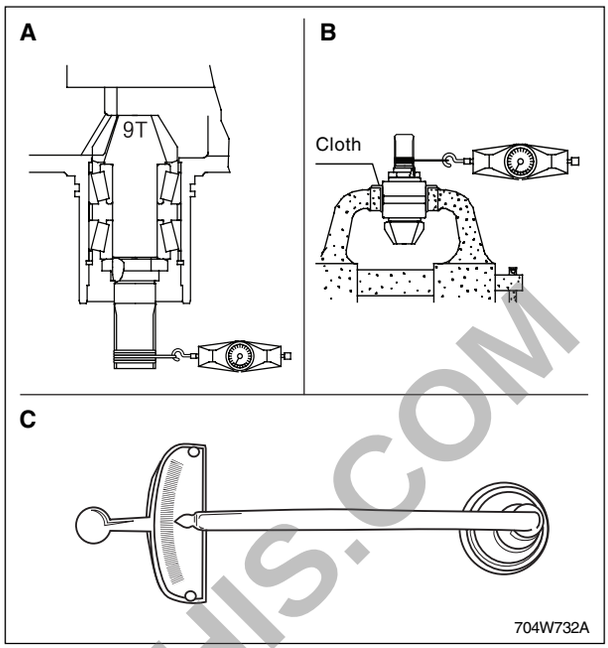
Item	Tightening torque
Torque value	0.980 ~ 1.176 Nm 0.1 ~ 0.12 kgf-m 0.72 ~ 0.87 lbs-ft

- When measuring the load by a pull scale as shown in the figure (A, B):

$$\text{Load of pull scale (F) (kgf)} = \frac{\text{Torque value (T) (kgf-m)}}{\text{Radius of spline shaft (R)}}$$

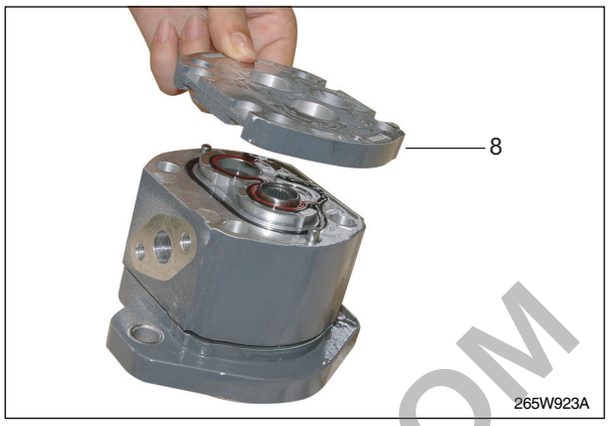
$$F = \frac{0.1 \sim 0.12 \text{ kgf-m}}{R\ (0.0123 \text{ m})}$$

$$F = 8.3 \sim 10 \text{ kgf } (18.3 \sim 22 \text{ lbs})$$

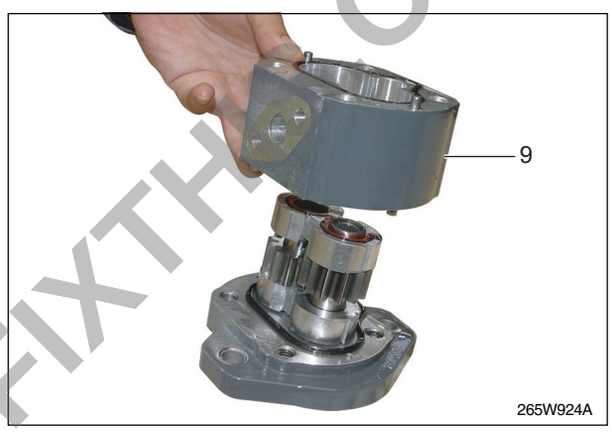


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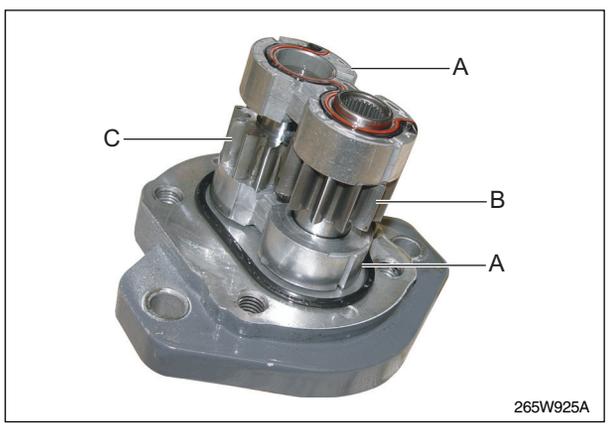
7. Remove the flange (8) between the primary pump body and the secondary pump body.



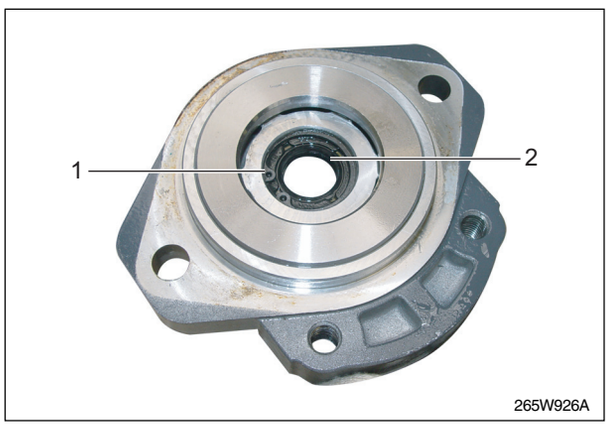
8. Remove the primary pump body (9).



9. Remove the thrust block (A), drive gear shaft (B) and driven gear (c) from the primary pump.



10. Remove the snap ring (1) and retainer (2) from the front cover.



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