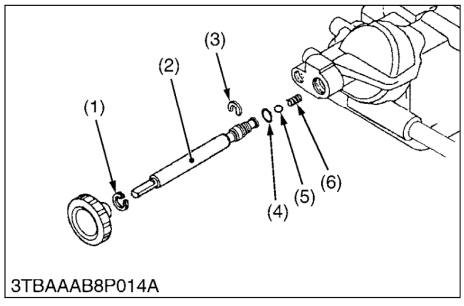
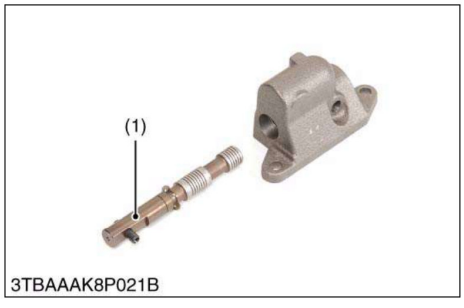


3TBAAAB8P014A

(3) Hydraulic Control Valve



3TBAAAK8P021B

Lowering Speed Adjusting Valve

1. Remove the internal snap ring (1) and pull out the lowering speed adjusting valve with shaft (2).
2. Draw out the ball (5) and spring (6).

(When reassembling)

- Take care not to damage the O-rings.

(1) Internal Snap Ring
(2) Lowering Speed Adjusting Valve with Shaft
(3) Stopper
(4) O-ring
(5) Ball
(6) Spring

9Y1210519HYS0023US0

Disassembling Control Valve

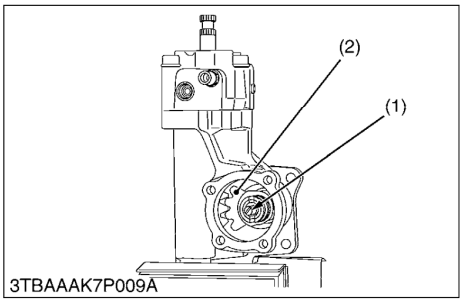
1. Remove the spool (1).

(1) Spool

9Y1210519HYS0024US0

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Side Cover and Sector Gear Shaft

1. Loosen the lock nut.
2. Remove the side cover mounting screws.
3. Screw in the adjusting screw (1) to remove the side cover.
4. Tap out the sector gear shaft (2) toward the side cover.

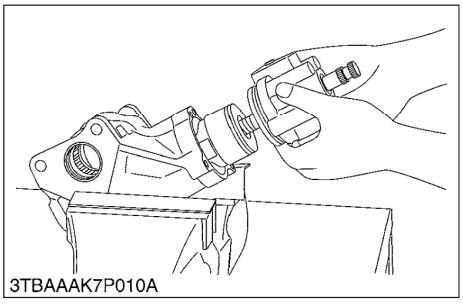
(When reassembling)

- Turn the worm shaft so that the rack (piston) is centered in its travel. Then, install the sector gear shaft (2) so that the center of its teeth engages the center teeth of the rack (piston).
- Be sure to adjust the backlash between sector gear shaft (2) and rack (piston).

Tightening torque	Side cover mounting screw	20 to 29 N·m 2.0 to 3.0 kgf·m 15 to 21 lbf·ft

(1) Adjusting Screw (2) Sector Gear Shaft

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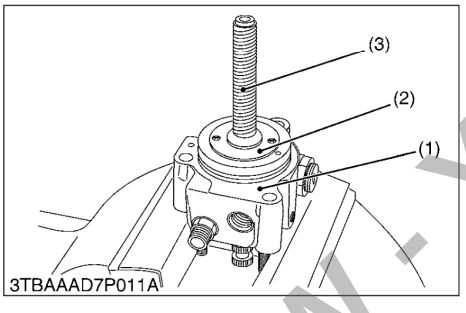
Valve Assembly and Rack (Piston)

1. Remove the valve housing mounting hex. head screws.
2. Draw out the valve assembly and rack (piston) as a unit.

(When reassembling)

Tightening torque	Valve housing mounting hex. head screw	40 to 49 N·m 4.0 to 5.0 kgf·m 29 to 36 lbf·ft

9Y1210519STS0017US0



Valve Assembly

1. Remove the plug (2).
2. Pull out the worm shaft (3) with sleeve and stub shaft from valve housing (1).

(When reassembling)

- When tighten the plug, use the PS plug wrench (Refer to G-49).
- Be sure to tighten the plug to specified torque and staking the plug (2). If the plug is tightened to excessive torque, it may cause damage to the thrust races and thrust bearings.

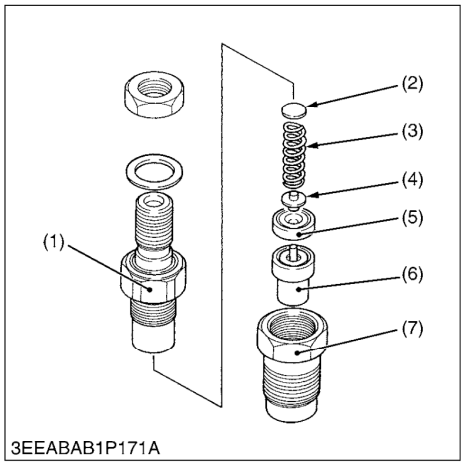
Tightening torque	Plug	8.9 to 10 N·m 0.90 to 1.1 kgf·m 6.5 to 7.9 lbf·ft

(1) Valve Housing (3) Worm Shaft
(2) Plug

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Nozzle Holder

1. Secure the nozzle retaining nut (7) with a vise.
2. Remove the nozzle holder (1), and take out parts inside.

(When reassembling)

- Assemble the nozzle in clean fuel oil.
- Install the push rod (4), noting its direction.
- After assembling the nozzle, be sure to adjust the fuel injection pressure.

Tightening torque	Nozzle holder	35 to 39 N·m 3.5 to 4.0 kgf·m 26 to 28 lbf·ft
	Overflow pipe retaining nut	20 to 24 N·m 2.0 to 2.5 kgf·m 15 to 18 lbf·ft
	Nozzle holder assembly	49 to 68 N·m 5.0 to 7.0 kgf·m 36 to 50 lbf·ft

(1) Nozzle Holder
(2) Adjusting Washer
(3) Nozzle Spring
(4) Push Rod
(5) Distance Piece
(6) Nozzle Piece
(7) Nozzle Retaining Nut

9Y1210519ENS0021US0

[2] PREPARATION

(1) Separating Engine from Clutch Housing



9Y1210428ENS001A



3TBAAAL1P002A

Bonnet, Front Grille, Side Cover and Battery Negative Cord

1. Open the bonnet (2) and remove the front grille (1).
2. Disconnect the negative cord (4).
3. Disconnect the head light connectors and remove the bonnet (2).
4. Remove the side covers (3).

■ **NOTE**

- **When disconnecting the battery cords, disconnect the negative cord (4) first. When connecting, positive cord first.**

(1) Front Grille
(2) Bonnet
(3) Side Cover
(4) Battery Negative Code

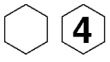
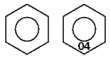
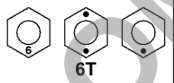
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5. TIGHTENING TORQUES

[1] GENERAL USE SCREWS, BOLTS AND NUTS

Tighten screws, bolts and nuts whose tightening torques are not specified in this Workshop Manual according to the table below.

Indication on top of bolt	 No-grade or 4T						 7T						 9T		
Indication on top of nut	 No-grade or 4T												 6T		
Material of opponent part	Ordinariness			Aluminum			Ordinariness			Aluminum			Ordinariness		
Unit	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft
M6	7.9 to 9.3	0.80 to 0.95	5.8 to 6.8	7.9 to 8.8	0.80 to 0.90	5.8 to 6.5	9.81 to 11.2	1.00 to 1.15	7.24 to 8.31	7.9 to 8.8	0.80 to 0.90	5.8 to 6.5	12.3 to 14.2	1.25 to 1.45	9.05 to 10.4
M8	18 to 20	1.8 to 2.1	13 to 15	17 to 19	1.7 to 2.0	13 to 14	24 to 27	2.4 to 2.8	18 to 20	18 to 20	1.8 to 2.1	13 to 15	30 to 34	3.0 to 3.5	22 to 25
M10	40 to 45	4.0 to 4.6	29 to 33	32 to 34	3.2 to 3.5	24 to 25	48 to 55	4.9 to 5.7	36 to 41	40 to 44	4.0 to 4.5	29 to 32	61 to 70	6.2 to 7.2	45 to 52
M12	63 to 72	6.4 to 7.4	47 to 53	–	–	–	78 to 90	7.9 to 9.2	58 to 66	63 to 72	6.4 to 7.4	47 to 53	103 to 117	10.5 to 12.0	76.0 to 86.7
M14	108 to 125	11.0 to 12.8	79.6 to 92.5	–	–	–	124 to 147	12.6 to 15.0	91.2 to 108	–	–	–	167 to 196	17.0 to 20.0	123 to 144
M16	167 to 191	17.0 to 19.5	123 to 141	–	–	–	197 to 225	20.0 to 23.0	145 to 166	–	–	–	260 to 304	26.5 to 31.0	192 to 224
M18	246 to 284	25.0 to 29.0	181 to 209	–	–	–	275 to 318	28.0 to 32.5	203 to 235	–	–	–	344 to 402	35.0 to 41.0	254 to 296
M20	334 to 392	34.0 to 40.0	246 to 289	–	–	–	368 to 431	37.5 to 44.0	272 to 318	–	–	–	491 to 568	50.0 to 58.0	362 to 419

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[2] STUD BOLTS

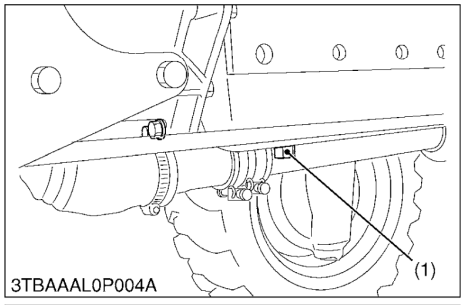
Material of opponent part	Ordinariness			Aluminum		
Unit	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft
M8	12 to 15	1.2 to 1.6	8.7 to 11	8.9 to 11	0.90 to 1.2	6.5 to 8.6
M10	25 to 31	2.5 to 3.2	18 to 23	20 to 25	2.0 to 2.6	15 to 18
M12	30 to 49	3.0 to 5.0	22 to 36	31	3.2	23
M14	62 to 73	6.3 to 7.5	46 to 54	–	–	–
M16	98.1 to 112	10.0 to 11.5	72.4 to 83.1	–	–	–
M18	172 to 201	17.5 to 20.5	127 to 148	–	–	–

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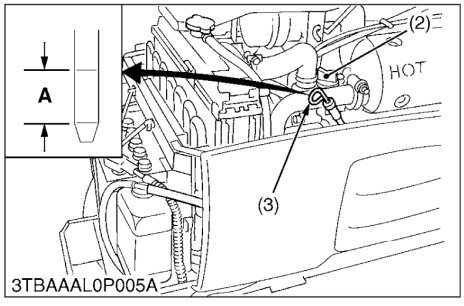
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[2] CHECK POINTS OF INITIAL 50 HOURS



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3TBAAAL0P005A

Changing Engine Oil

CAUTION

To avoid personal injury:

- **Be sure to stop the engine and remove the key before changing the oil.**
- **Allow engine to cool down sufficiently, oil can be not and can burn.**

1. Place an oil pan underneath the engine.
2. To drain the used oil, remove the drain plug (1) at the bottom of the engine and drain the oil completely.
3. Screw in the drain plug (1).
4. Fill with the new oil up to the upper notch on the dipstick.

■ IMPORTANT

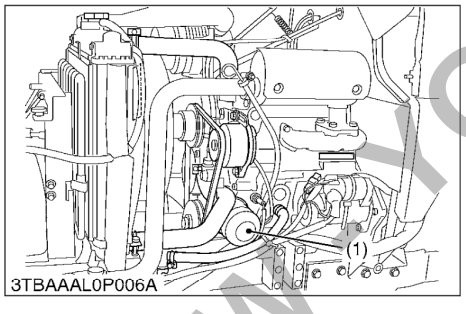
- **Never mix two different types of oil.**
- **Use the proper SAE Engine Oil according to ambient temperatures.**
- **Refer to "LUBRICANTS, FUEL AND COOLANT". (See page G-8.)**

Engine oil	Capacity	5.4 L 5.7 U.S.qts 4.8 Imp.qts

(1) Drain Plug
(2) Oil Inlet
(3) Dipstick

A: Proper Oil Level

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3TBAAAL0P006A

Replacing Engine Oil Filter Cartridge

CAUTION

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

1. Remove the oil filter cartridge with the filter wrench.
2. Apply a slight coat of oil onto the cartridge gasket.
3. To install the new cartridge, screw it in by hand. Over tightening may cause deformation of rubber gasket.
4. After the new cartridge has been replaced, the engine oil normally decrease a little. Thus see that the engine oil does not leak through the seal and be sure to read the oil level on the dipstick. Then, replenish the engine oil up to the specified level.

■ IMPORTANT

- **To prevent serious damage to the engine, replacement element must be highly efficient. Use only a KUBOTA genuine filter or its equivalent.**

(1) Engine Oil Filter Cartridge

9Y1210519GEG0009US0

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1. TROUBLESHOOTING

Symptom	Probable Cause	Solution	Reference Page
Engine Does Not Start	No fuel	Replenish fuel	–
	Air in the fuel system	Bleed	G-35
	Water in the fuel system	Change fuel and repair or replace fuel system	–
	Fuel hose clogged	Clean	–
	Fuel filter clogged	Change	G-30
	Excessively high viscosity of fuel or engine oil at low temperature	Use specified fuel or engine oil	G-8
	Fuel with low cetane number	Use specified fuel	G-8
	Incorrect injection timing	Adjust	1-S14
	Injection nozzle clogged	Repair or replace	1-S17
	Injection pump malfunctioning	Replace	1-S29
	Seizure of crankshaft, camshaft, piston, cylinder or bearing	Repair	–
	Compression leak from cylinder	Replace head gasket, tighten cylinder head screw, glow plug and nozzle holder	1-S26
	Improper valve timing	Correct or replace timing gear	1-S30
	Piston ring and cylinder worn	Replace	1-S45
	Excessive valve clearance	Adjust	1-S11
Engine Revolution Is Not Smooth	Fuel filter clogged or dirty	Replace	G-30
	Air cleaner clogged	Clean or replace	G-23
	Fuel leak due to loosing injection pipe retaining nut	Tighten retaining nut	1-S24
	Injection pump malfunctioning	Replace	1-S29
	Incorrect nozzle injection pressure	Adjust	1-S16
	Injection nozzle stuck or clogged	Repair or replace	1-S17
	Governor malfunctioning	Repair	–
Either White or Blue Exhaust Gas Is Observed	Excessive engine oil	Reduce to specified level	G-15
	Piston ring and cylinder worn or stuck	Repair or replace	1-S45
	Incorrect injection timing	Adjust	1-S14
	Deficient compression	Repair	1-S10 1-S26 1-S33
Either Black or Dark Gray Exhaust Gas Is Observed	Overload	Reduce the load	–
	Low grade fuel used	Use specified fuel	G-8
	Fuel filter clogged	Replace	G-30
	Air cleaner clogged	Clean or replace	G-23
	Deficient nozzle injection	Repair or replace nozzle	1-S17

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3. SPECIFICATIONS

Model			B3300SUHSD	
PTO power*			18.6 kW (25.0 HP)	
Engine	Maker		KUBOTA	
	Model		V1505-E3-D24H	
	Type		Indirect Injection, Vertical, water-cooled, 4 cycle diesel	
	Number of cylinders		4	
	Bore and stroke		78 × 78.4 mm (3.1 × 3.1 in.)	
	Total displacement		1498 cm^3 (91.5 cu.in.)	
	Engine gross power*		24.6 kW (33.0 HP)	
	Rated revolution		2700 min^{-1} (rpm)	
	Low idling revolution		1000 to 1100 min^{-1} (rpm)	
	Maximum torque		91 N·m (9.3 kgf·m, 67 lbf·ft)	
	Battery		12 V, RC: 79 min, CCA: 433 A	
Capacities	Fuel tank		31 L (8.1 U.S.gals, 6.7 Imp.gals)	
	Engine crankcase (with filter)		5.4 L (5.7 U.S.qts, 4.7 Imp.qts)	
	Engine coolant		4.5 L (4.7 U.S.qts, 3.9 Imp.qts)	
	Transmission case		14.5 L (3.83 U.S.gals, 3.19 Imp.gals)	
Tires	Front		Farm 7-12	Industry 23 × 8.50-14
	Rear		12.4-16	12.4-16
Dimensions	Overall length (without 3P)		2520 mm (99.2 in.)	2510 mm (98.8 in.)
	Overall width		1365 mm (53.7 in.)	
	Overall height (with ROPS)		2245 mm (88.4 in.)	2235 mm (88.0 in.)
	Wheel base		1696 mm (66.8 in.)	
	Min. ground clearance		370 mm (14.6 in.)	
Tread	Front		935 mm (36.8 in.)	905 mm (35.6 in.)
	Rear		1050 mm (41.3 in.)	
Weight (with ROPS)			800 kg (1764 lbs)	810 kg (1786 lbs)
Traveling system	Clutch		Dry single plate	
	Steering		Integral type power steering	
	Transmission		Main-hydrostatic transmission, 3 range gear shift (3 forward, 3 reverse)	
	Brake		Wet disk type	
	Min. turning radius (with brake)		2.4 m (7.9 feet)	
Hydraulic unit	Hydraulic control system		Quarter inching valve	
	Pump capacity		3P: 25.3 L/min (6.7 U.S.gals/min, 5.6 Imp.gals/min), Power steering: 12.2 L/min (3.2 U.S.gals/min, 2.7 Imp.gals/min)	
	3-point hitch		SAE Category 1	
	Max. lift force	At lift points	810 kg (1786 lbs)	
		24 in. behind lift point	635 kg (1400 lbs)	
PTO	Rear-PTO		SAE 1-3/8, 6 splines	
	PTO / Engine speed		1 speed 540 / 2600 min^{-1} (rpm)	

■ **NOTE**

- *** Manufacturer's estimate**
  The company reserves the right to change the specifications without notice.

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6. MAINTENANCE CHECK LIST

No.	Item			Indication on hour meter										Important		Reference page
				50	100	150	200	250	300	350	400	450	500			
1	Engine oil		Change	★			☆				☆					G-15
2	Engine oil filter		Replace	★			☆				☆					G-15
3	Transmission oil filter (for HST)		Replace	★			☆				☆					G-16
4	Hydraulic oil filter		Replace								☆					G-27
5	Transmission fluid		Change								☆					G-28
6	Transmission strainer		Clean								☆					G-29
7	Front axle case oil		Change								☆					G-30
8	Front axle pivot		Adjust								☆					G-29
9	Engine start system		Check	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆			G-18
10	Greasing		–	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆			G-19
11	Wheel bolt torque		Check	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆			G-20
12	Battery condition		Check		☆		☆		☆		☆		☆	*4		G-21
13	Air cleaner element	Primary element	Clean		☆		☆		☆		☆		☆	*1	@	G-23
			Replace											*2		G-31
		Secondary element	Replace													G-31
14	Fuel filter element		Clean		☆		☆		☆		☆		☆		@	G-23
			Replace								☆					G-30
15	Fan belt		Adjust		☆		☆		☆		☆		☆			G-24
16	Clutch		Adjust	★	☆		☆		☆		☆		☆			G-17
17	Brake		Adjust		☆		☆		☆		☆		☆			G-24
18	Radiator hose and clamp		Check				☆				☆					G-26
			Replace													G-32
19	Fuel line		Check		☆		☆		☆		☆		☆		@	G-25
			Replace													G-31
20	Intake air line		Check				☆				☆				@	G-25
			Replace													G-31
21	Toe-in		Adjust				☆				☆					G-26
22	Engine valve clearance		Adjust													G-31
23	Fuel injection nozzle injection pressure		Check												@	G-31
24	Injection pump		Check												@	G-31
25	Cooling system		Flush													G-32
26	Coolant		Change													G-32
27	Fuel system		Bleed													G-35
28	Clutch housing water		Drain													G-35
29	Fuse		Replace													G-35
30	Light bulb		Replace													G-36

■ **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.**
- ***2: Every year or every 6 times of cleaning.**
- ***3: Replace only if necessary.**
- ***4: When the battery is used for less than 100 hours per year, check the fluid level annually.**
- **The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA 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. Please see the Warranty Statement in detail.**

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INFORMATION

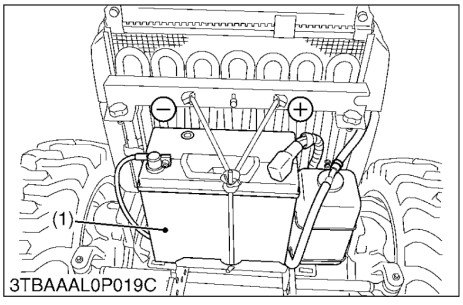
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1. SAFETY FIRST I-1
2. SAFETY DECALS I-4
3. SPECIFICATIONS I-7
4. TRAVELING SPEEDS I-8
5. DIMENSIONS I-9

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(Continued)



■ Battery Charging

⚠ CAUTION

- **When the battery is being activated, hydrogen and oxygen gases in the battery are extremely explosive. Keep open sparks and flames away from the battery at all times, especially when charging the battery.**
- **When charging battery, remove battery vent plugs.**
- **When disconnecting the cable from the battery, start with the negative terminal first.**
  When connecting the cable to the battery, start with the positive terminal first.
- **Never check battery charge by placing a metal object across the posts.**
  Use a voltmeter or hydrometer.

1. To slow charge the battery, connect the battery positive terminal to the charger positive terminal and the negative to the negative, then recharge in the standard fashion.
2. A boost charge is only for emergencies. It will partially charge the battery at a high rate and in a short time.
   When using a boost-charged battery, it is necessary to recharge the battery as early as possible.
   Failure to do this will shorten the battery's service life.
3. The battery is charged if the indicator display turns green from black.
4. When exchanging an old battery into new one, use battery of equal specification shown in table 1.

Table 1

Battery Type	Volt (V)	Capacity at 5 H.R.	Reserve at (min.)	Cold Cranking Amps	Normal Charging Rate (A)
55B24L (S)-MF	12	36	79	433	4.5

■ Battery Storage

1. When storing the tractor for long periods of time, remove the battery from tractor, adjust the electrolyte to the proper level and store in a dry place out of direct sunlight.
2. The battery self-discharges while it is stored.
   Recharge it once every three months in hot seasons and once every six months in cold seasons.

(1) Battery

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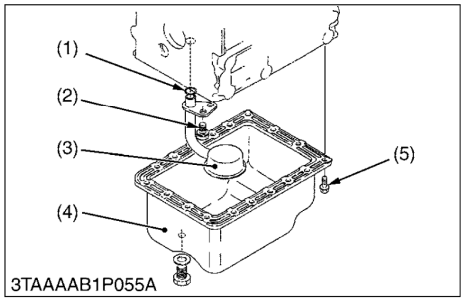
No.	Implement		Remarks	B3300SUHSD
1	Mower	Rotary-cutter (1 Blade)	Max. cutting width	1220 mm (48 in.)
			Max. weight	227 kg (500 lbs)
		Rear-mount (2 or 3 Blade)	Max. cutting width	1830 mm (72 in.)
			Max. weight	227 kg (500 lbs)
		Flail-mower	Max. cutting width	1220 mm (48 in.)
		Sickle bar	Max. cutting width	1524 mm (60 in.)
2	Rotary tiller		Max. cutting width	1270 mm (50 in.)
			Max. weight	250 kg (550 lbs)
			Slip clutch	Necessary
3	Bottom plow		Max. size	305 mm (12 in.) × 2
4	Disc plow		Max. size	559 mm (22 in.) × 2
5	Cultivator		Max. size	1524 mm (60 in.) 1 Row
6	Disc harrow		Max. harrowing width	1676 mm (66 in.)
			Max. weight	250 kg (550 lbs)
7	Sprayer		Max. tank capacity	246 L (65 U.S.gals)
8	Front blade		Max. cutting width	1676 mm (66 in.)
			Sub frame	Necessary
9	Rear blade		Max. cutting width	1676 mm (66 in.)
			Max. weight	250 kg (550 lbs)
10	Front loader		Max. lifting capacity (Bucket center)	400 kg (880 lbs)
			Max. width	1524 mm (60 in.)
			Sub frame	Necessary
11	Box blade		Max. cutting width	1372 mm (54 in.)
			Max. weight	227 kg (500 lbs)
12	Back hoe		Max. digging depth	1830 mm (72 in.)
			Max. weight	363 kg (800 lbs)
			Sub frame	Necessary
13	Snow blower		Max. digging depth	1600 mm (63 in.)
			Max. weight	227 kg (500 lbs)
			Sub frame	Necessary
14	Trailer		Max. load capacity	1500 kg (3300 lbs)
			Max. drawbar load	500 kg (1100 lbs)

■ **NOTE**
- **Implement size may vary depending on soil operating conditions.**

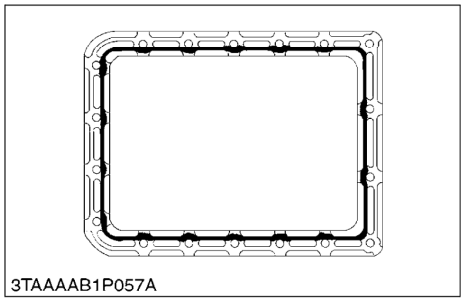
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3TAAAAB1P055A


3TAAAAB1P057A

Oil Pan and Oil Strainer

1. Remove the oil pan mounting screws (5).
2. Remove the oil pan (4).
3. Remove the oil strainer (3).

(When reassembling)

- After cleaning the oil strainer, check to see that the filter mesh is clean, and install it.
- Visually check the O-ring (1), apply engine oil, and install it.
- Securely fit the O-ring to the oil strainer.
- To avoid uneven tightening, tighten oil pan mounting screws in diagonal order from the center.

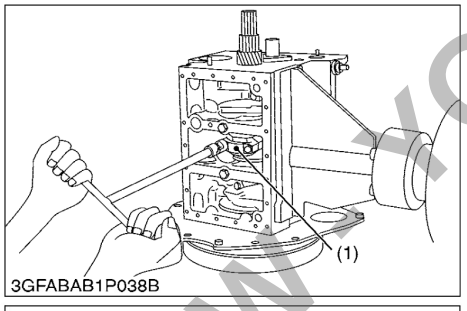
■ **IMPORTANT**

- **Scrape off the old adhesive completely. Wipe the sealing surface clean using waste cloth soaked with gasoline. Now apply new adhesive 3 to 5 mm (0.12 to 0.20 in.) thick all over the contact surface. Apply the adhesive also on the center of the flange as well as on the inner wall of each screw hole.**
- **Cut the nozzle of the "liquid gasket" container at its second notch. Apply "liquid gasket" about 5 mm (0.20 in.) thick. Within 20 minutes after the application of fluid sealant, reassemble the components. Wait then for about 30 minutes, and pour oil in the crankcase.**

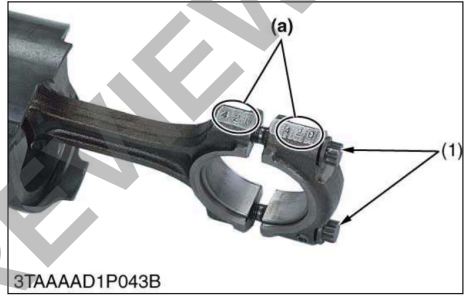
(1) O-ring
(2) Screw
(3) Oil Strainer
(4) Oil Pan
(5) Oil Pan Mounting Screws

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(3) Piston and Connecting Rod



3GFABAB1P038B



3TAAAAD1P043B

Connecting Rod

1. Remove the connecting rod cap.

(When reassembling)

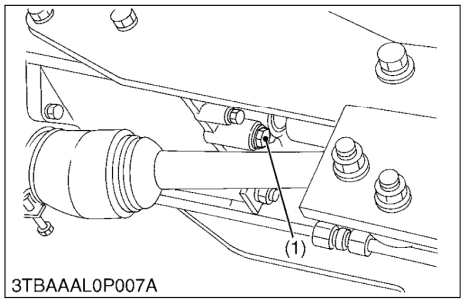
- Align the marks **(a)** with each other. (Face the marks toward the injection pump.).
- Apply engine oil to the connecting rod screws (1) and lightly screw it in by hand, then tighten it to the specified torque.
  If the connecting rod screw won't be screwed in smoothly, clean the threads.
  If the connecting rod screw (1) is still hard to screw in, replace it.

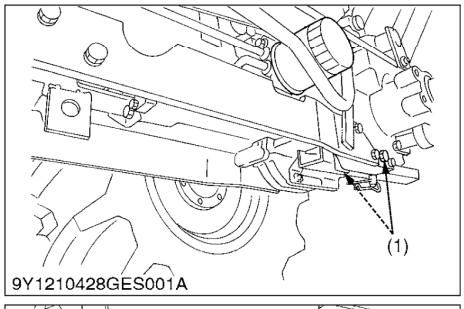
Tightening torque	Connecting rod screw	42 to 46 N·m 4.2 to 4.7 kgf·m 31 to 33 lbf·ft

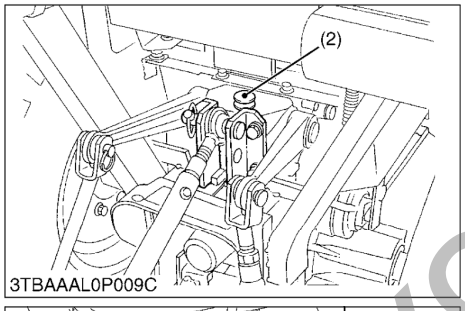
(1) Connecting Rod Screw **(a) Mark**

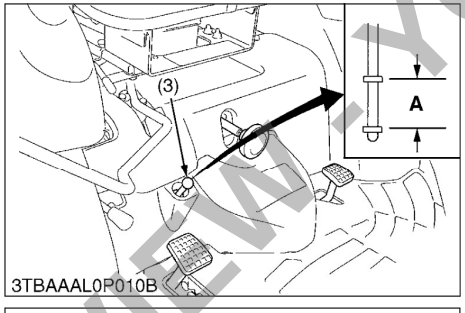
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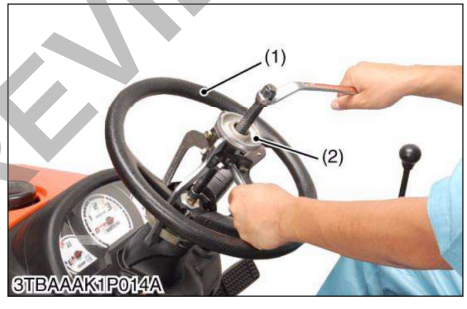
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Draining Transmission Fluid

1. Place an oil pan underneath the transmission case, and remove the drain plugs (1).
2. Drain the transmission fluid.
3. Reinstall the drain plugs (1).

(When refilling)

- Fill new oil from filling port after removing the filling plug (2) up to the upper notch on the dipstick (3).
- After running the engine for few minutes, stop it and check the oil level again, if low, add oil prescribed level.

■ **IMPORTANT**

- **Use only multi-grade transmission oil. Use of other oils may damage the transmission or hydraulic system. Refer to "LUBRICANTS, FUEL AND COOLANT" (See page G-8).**
- **Never work the tractor immediately after changing the transmission oil. Keeping the engine at medium speed for a few minutes to prevent damage to the transmission.**
- **Do not mix different brands oil together.**

Transmission fluid	Capacity	14.5 L 3.83 U.S.gals 3.19 Imp.gals

(1) Drain Plug
(2) Filling Plug
(3) Dipstick

A: Proper Oil Level

9Y1210519ENS0025US0

Steering Wheel

1. Remove the steering wheel cap.
2. Remove the steering wheel mounting nut and remove the steering wheel (1) with a steering wheel puller (2).

(When reassembling)

Tightening torque	Steering wheel mounting nut	30 to 49 N·m 3.0 to 5.0 kgf·m 22 to 36 lbf·ft

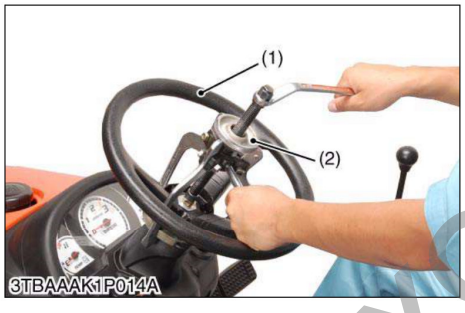
(1) Steering Wheel (2) Steering Wheel Puller

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Bonnet, Front Grille, Side Cover and Battery Negative Cord

1. Open the bonnet (2) and remove the front grille (1).
2. Disconnect the negative cord (4).
3. Disconnect the head light connectors and remove the bonnet (2).
4. Remove the side covers (3).

■ **NOTE**

- **When disconnecting the battery cords, disconnect the negative cord (4) first. When connecting, positive cord first.**

(1) Front Grille
(2) Bonnet
(3) Side Cover
(4) Battery Negative Code

9Y1210519ENS0022US0

Steering Wheel

1. Remove the steering wheel cap.
2. Remove the steering wheel mounting nut and remove the steering wheel (1) with a steering wheel puller (2).

(When reassembling)

Tightening torque	Steering wheel mounting nut	30 to 49 N·m 3.0 to 5.0 kgf·m 22 to 36 lbf·ft

(1) Steering Wheel
(2) Steering Wheel Puller

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1. TROUBLESHOOTING

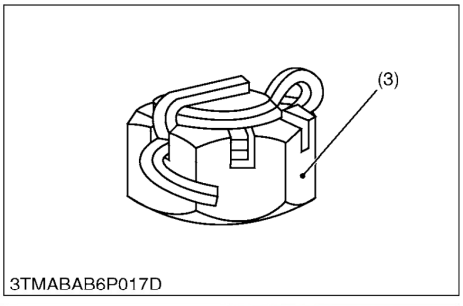
Symptom	Probable Cause	Solution	Reference Page
Excessive or Unusual Noise at All Time	Improper backlash between differential gear shaft and final reduction gear	Replace	–
	Bearing worn	Replace	–
	Insufficient or improper type of transmission fluid used	Replenish or change	G-8
Noise while Turning	Brake shaft and 57T gear and internal gear worn or damaged	Replace	4-S6

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Front Wheel and Drag Link

1. Place the disassembling stand under the front axle frame.
2. Remove the front wheels (2).
3. Remove the drag link (1) from the knuckle arm.

(When reassembling)

■ **IMPORTANT**

- **Do not loosen the slotted nut (3) to align the hole.**
- **Install the cotter pin as shown in the figure.**

Tightening torque	Front wheel mounting nut	79 to 92 N·m 8.1 to 9.3 kgf·m 59 to 67 lbf·ft
	Slotted nut	18 to 34 N·m 1.9 to 3.5 kgf·m 14 to 25 lbf·ft

(1) Drag Link
(2) Front Wheel
(3) Slotted Nut

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Front Axle Assembly

1. Lift up the front side of tractor and place the disassembling stand under the front axle.
2. Remove the front axle brackets (Front side and rear side) mounting screws.
3. Separating the front axle from the front axle frame.

(When reassembling)

- After mounting the front axle assembly to the front axle frame, be sure to adjust the front axle rocking force. (See page 6-S4.)

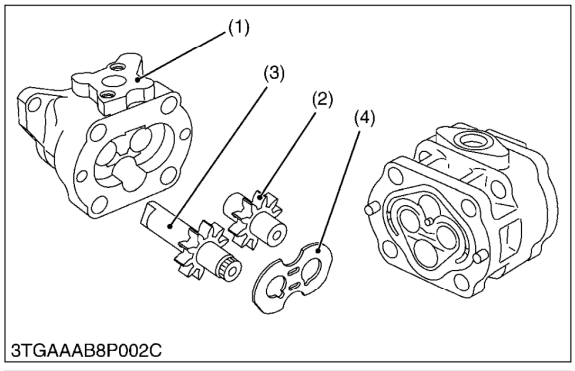
Tightening torque	Front axle bracket mounting screw	124 to 147 N·m 12.6 to 15.0 kgf·m 91.2 to 108 lbf·ft

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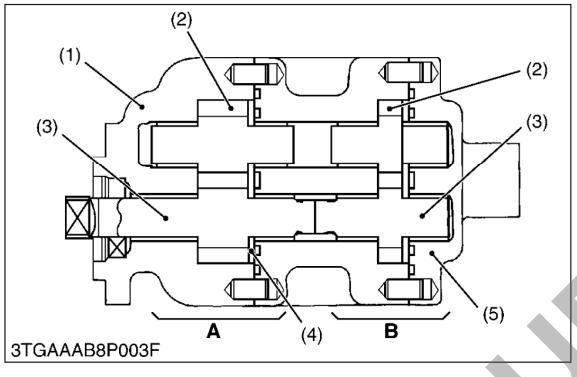
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2. HYDRAULIC PUMP



3TGAAAB8P002C



3TGAAAB8P003F

The hydraulic pump is composed of the casing (1), cover (5), side plate (4), and two spur gears (drive gear (3) and driven gear (2)) that are in mesh.

Hydraulic pump is driven by the fuel camshaft.

Maximum displacement is as follows.

Hydraulic pump (for Power Steering)

Displacement	Engine speed	Condition
12.2 L/min. 3.22 U.S.gals/min. 2.68 Imp.gals/min.	At 2700 min^{-1} (rpm)	at no load

Hydraulic pump (for 3-Point Hitch)

General	Engine speed	Condition
25.3 L/min. 6.68 U.S.gals/min. 5.57 Imp.gals/min.	At 2700 min^{-1} (rpm)	at no load

(1) Casing
(2) Driven Gear
(3) Drive Gear
(4) Side Plate
(5) Cover

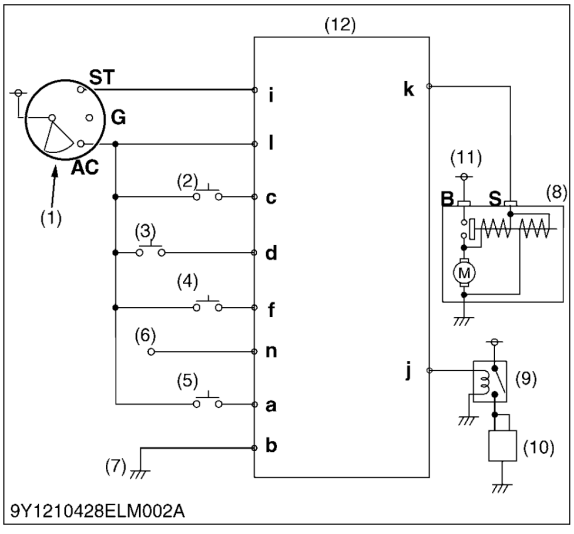
A: Pump for 3-Point Hitch Hydraulic System
B: Pump for Power Steering

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[2] CONTROLLER



Operator Presence Control (OPC) System

B3300SU is configured with an "Operator Presence Control (OPC)" system to control engine starting and engine automatically stopping.

This OPC system mainly consists of controller and engine starting / stopping control switches such as HST pedal switch, seat switch, seat tilt switch, PTO switch 1.

Main parts regarding OPC system are laid out as shown in the electrical circuit.

(1) Main Switch
(2) PTO Switch 1
(3) Seat Tilt Switch
(4) Seat Switch
(5) HST Pedal Switch
(6) Regulator **L** Terminal
(7) Body Earth
(8) Starter Motor
(9) Key Stop Solenoid Relay
(10) Key Stop Solenoid
(11) Battery
(12) OPC Controller

a to l: Controller Terminal
ST: Main Switch ST Terminal
G: Main Switch G Terminal
AC: Main Switch AC Terminal
B: Starter Motor B Terminal
S: Starter Motor S Terminal

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