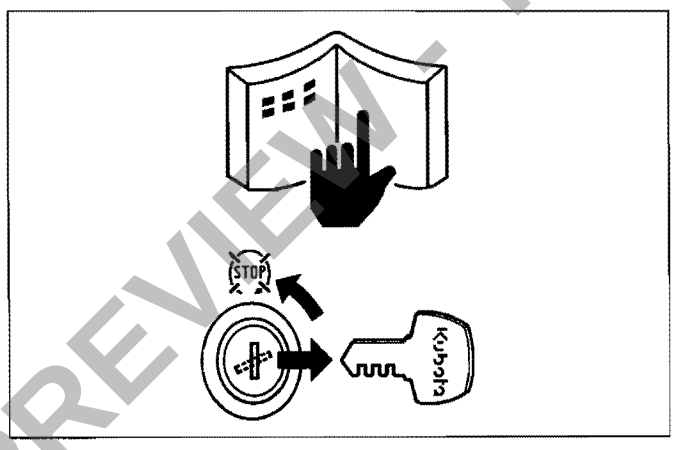
⚠ SAFETY FIRST

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 repair 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, may result in minor or moderate injury.**
■ **IMPORTANT**	**: Indicates that equipment or property damage could result if instructions are not followed.**
■ **NOTE**	**: Gives helpful information.**



BEFORE SERVICING AND REPAIRING

- Read all instructions and safety instructions in this manual and on your machine safety decals.
- Clean the work area and machine.
- Park the machine on a firm and level ground, and set the parking brake.
- Lower the implement to the ground.
- Stop the engine, and remove the key.
- Disconnect the battery negative cable.
- Hang a "**DO NOT OPERATE**" tag in operator station.

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GENERAL

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10. IMPLEMENT LIMITATIONS G-45

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SPECIFICATIONS

Model			BX24
PTO power			13.2 kW (17.7 HP)*
Engine	Maker		KUBOTA
	Model		D902-E2-BX-2
	Type		Indirect Injection, vertical, water-cooled, 4-cycle diesel
	Number of cylinders		3
	Bore and stroke		72 × 73.6 mm (2.83 × 2.90 in.)
	Total displacement		898 cm^3 (54.8 cu.in.)
	Engine gross power		17.1 kW (23.0 HP)
	Rated revolution		3200min^{-1} (rpm)
	Maximum torque		56.1 N·m (5.7 kgf·m, 41.4 ft-lbs)
	Battery		12 V, CCA : 535 A, RC : 80 min.
	Fuel		Diesel fuel No. 2-D [above −10 °C (14 °F)], Diesel fuel No. 1 [below −10 °C (14 °F)]
Capacities	Fuel tank		25 L (6.6 U.S.gals, 5.5 Imp.gals)
	Engine crankcase (with filter)		3.1 L (3.3 U.S.qts., 2.73 Imp.qts)
	Engine coolant		2.7 L (2.8 U.S.qts., 2.4 Imp.qts)
	Recovery tank		0.4 L (0.4 U.S.qts, 0.4 Imp.qts)
	Transmission case		11.6 L (3.1 U.S.gals, 2.6 Imp.gals)
Dimensions	Overall length (without 3P)		2170 mm (85.4 in.)
	Overall length (with 3P)		2490 mm (98.0 in.)
	Overall width		1145 mm (45.1 in.)
	Overall height	(with ROPS)	2140 mm (84.3 in.)
		(with Folded ROPS)	1610 mm (63.4 in.)
		(Top of steering wheel)	1255 mm (49.4 in.)
	Wheel base		1400 mm (55.1 in.)
	Min. ground clearance		175 mm (6.9 in.)
	Tread	Front	910 mm (35.8 in.)
		Rear	820 mm (32.2 in.)
Weight (with ROPS)			690 kg (1520 lbs)
Clutch			N / A
Travelling system	Tires	Front	18 × 8.50 – 10 (Turf, Bar, Ind.)
		Rear	26 × 12.00 – 12 (Turf, Bar, Ind.)
	Steering		Hydrostatic power steering
	Transmission		Main : Hydrostatic transmission, High-Low gear shift (2 forward and 2 reverse)
	Brake		Wet disk type
	Min. turning radius (without brake)		2.3 m (7.5 feet)
Hydraulic unit	Hydraulic control system		Directional control, auto-return lever system
	Pump capacity		23.5 L/min. (6.2 U.S.gals./min., 5.2 Imp.gals./min.)
	Three point hitch		SAE Category I
	Max. lift force	At lift points	5390 N (550 kg, 1210 lbs)
		24 in. behind points	3040 N (310 kg, 680 lbs)
PTO	Rear	PTO Shaft	SAE 1-3/8, 6 splines
		Revolution	1 speed (540 min^{-1} (rpm) at 3142 engine min^{-1} (rpm))
	Mid	PTO Shaft	USA No.5 (KUBOTA 10-tooth) involute spline
		Revolution	1 speed (2500 min^{-1} (rpm) at 3043 engine min^{-1} (rpm))

NOTE: * Manufacture's estimate. The company reserves the right to change the specifications without notice.
**See and check IMPLEMENT LIMITATIONS.

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5. TIGHTENING TORQUES

[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	N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs
M6 (6 mm, 0.24 in.)	7.85 to 9.31	0.80 to 0.95	5.79 to 6.87	7.85 to 8.82	0.80 to 0.90	5.79 to 6.50	9.81 to 11.2	1.00 to 1.15	7.24 to 8.31	7.85 to 8.82	0.80 to 0.90	5.79 to 6.50	12.3 to 14.2	1.25 to 1.45	9.05 to 10.4
M8 (8 mm, 0.31 in.)	17.7 to 20.5	1.8 to 2.1	13.1 to 15.1	16.7 to 19.6	1.7 to 2.0	12.3 to 14.4	23.6 to 27.4	2.4 to 2.8	17.4 to 20.2	17.7 to 20.5	1.8 to 2.1	13.1 to 15.1	29.5 to 34.3	3.0 to 3.5	21.7 to 25.3
M10 (10 mm, 0.39 in.)	39.3 to 45.1	4.0 to 4.6	29.0 to 33.2	31.4 to 34.3	3.2 to 3.5	23.2 to 25.3	48.1 to 55.8	4.9 to 5.7	35.5 to 41.2	39.3 to 44.1	4.0 to 4.5	29.0 to 32.5	60.9 to 70.6	6.2 to 7.2	44.9 to 52.0
M12 (12 mm, 0.47 in.)	62.8 to 72.5	6.4 to 7.4	46.3 to 53.5	–	–	–	77.5 to 90.2	7.9 to 9.2	57.2 to 66.5	62.8 to 72.5	6.4 to 7.4	46.3 to 53.5	103 to 117	10.5 to 12.0	76.0 to 86.7
M14 (14 mm, 0.55 in.)	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 (16 mm, 0.63 in.)	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 (18 mm, 0.71 in.)	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 (20 mm, 0.79 in.)	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 / Diameter	N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs
M8 (8 mm, 0.31 in.)	11.8 to 15.6	1.2 to 1.6	8.68 to 11.5	8.82 to 11.8	0.90 to 1.2	6.51 to 8.67
M10 (10 mm, 0.39 in.)	24.6 to 31.3	2.5 to 3.2	18.1 to 23.1	19.7 to 25.4	2.0 to 2.6	14.5 to 18.8
M12 (12 mm, 0.47 in.)	29.5 to 49.0	3.0 to 5.0	21.7 to 36.1	31.4	3.2	23.1

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6. MAINTENANCE CHECK LIST

No.	Item \ Period		Service Interval																	After purchase		Important		Reference page
			50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	1500	3000	1 year	2 years		
1	Engine oil	Change	★	☆		☆		☆		☆		☆		☆		☆		☆							G-12
2	Engine oil filter	Replace	★			☆				☆				☆				☆							G-12
3	Transmission oil filter	Replace	★					☆						☆											G-13
4	Transmission fluid	Change	★					☆						☆											G-13
5	Transmission strainer	Clean						☆						☆											G-24
6	Front axle case oil	Change						☆						☆											G-24
7	Front axle pivot	Adjust								☆								☆							G-25
8	Engine start system	Check	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆							G-14
9	Greasing	–	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆							G-15
10	Wheel bolt torque	Check	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆							G-15
11	Battery condition	Check		☆		☆		☆		☆		☆		☆		☆		☆					*4		G-16
12	Air cleaner element	Clean		☆		☆		☆		☆		☆		☆		☆		☆					*1	@	G-18
		Replace																			☆		*2		G-18
13	Fuel filter element	Check		☆		☆		☆		☆		☆		☆		☆		☆						@	G-19
		Replace										☆													G-19
14	Fan belt	Adjust		☆		☆		☆		☆		☆		☆		☆		☆							G-20
15	HST neutral spring	Adjust		☆		☆		☆		☆		☆		☆		☆		☆							G-21
16	Brake	Adjust		☆		☆		☆		☆		☆		☆		☆		☆							G-22
17	Radiator hose and clamp	Check				☆				☆				☆				☆							G-22
		Replace																				☆			G-22
18	Power steering oil line	Check				☆				☆				☆				☆							G-23
		Replace																				☆			G-23
19	Fuel line	Check		☆		☆		☆		☆		☆		☆		☆		☆						@	G-19
		Replace																				☆			G-19
20	Intake air line	Check				☆				☆				☆				☆						@	G-23
		Replace																				☆	*3		G-23
21	Toe-in	Adjust				☆				☆				☆				☆							G-23
22	Engine valve clearance	Adjust																☆							1-S13
23	Fuel injection nozzle injection pressure	Check																	☆	☆				@	1-S20
24	Injection pump	Check																		☆				@	1-S19
25	Cooling system	Flush																				☆			G-27
26	Coolant	Change																				☆			G-27
27	Fuel system	Bleed																			Service as required				G-30
28	Fuse	Replace																							G-31
29	Light bulb	Replace																							G-31

■ 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 nonroad 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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4. LUBRICANTS FUEL AND COOLANT

No.	Place	Capacity	Lubricants, fuel and coolant
		BX24	
1	Fuel tank	25.0 L 6.6 U.S.gals 5.5 Imp.gals	No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below –10 °C (14 °F)
2	Cooling system with recovery tank	3.1 L 3.3 U.S.qts 2.7 Imp.qts	Fresh clean water with anti-freeze
3	Engine crankcase	3.1 L 3.3 U.S.qts 2.7 Imp.qts	Engine oil : API Service CD, CE or CF Below 0 °C (32 °F) : SAE10W, 10W-30 or 10W-40 0 to 25 °C (32 to 77 °F): SAE20, 10W-30 or 10W-40 Above 25 °C (77 °F): SAE30, 10W-30 or 10W-40
4	Transmission case	11.6 L 3.1 U.S.gals 2.6 Imp.gals	KUBOTA SUPER UDT fluid*
5	Front axle case	4.7 L 5.0 U.S.qts 4.1 Imp.qts	KUBOTA SUPER UDT fluid or SAE80, SAE90 gear oil

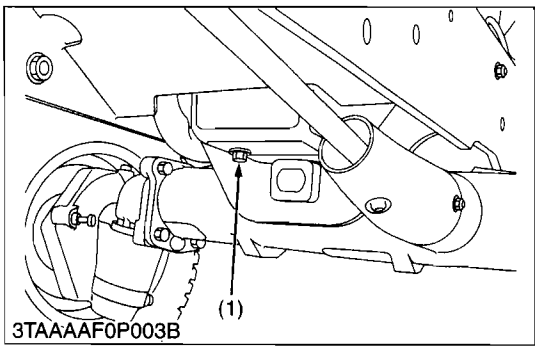
Greasing				
	Place	No. of greasing point	Capacity	Type of grease
6	Battery terminal	2	Moderate amount	Multipurpose type Grease NLGI-2 or NLGI-1 (GC-LG)
7	Speed control pedal	1	Until grease overflows	

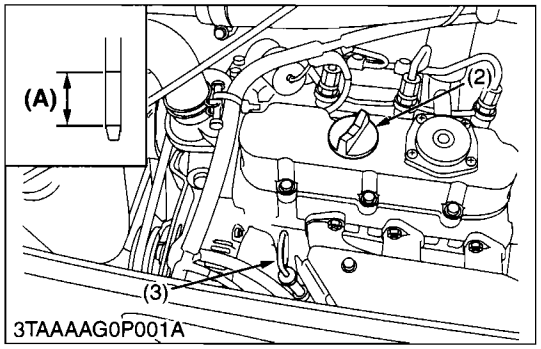
* KUBOTA original transmission hydraulic fluid.

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[2] CHECK POINTS OF INITIAL 50 HOURS





Changing Engine Oil

CAUTION

- **Be sure to stop the engine before changing engine oil.**

1. Start and warm up the engine for approx. 5 minutes.
2. Place an oil pan underneath the engine.
3. To drain the used oil, remove the drain plug (1) at the bottom of the engine and drain the oil completely.
4. Screw in the drain plug (1).
5. Fill new oil up to upper line on the dipstick (3).

■ IMPORTANT

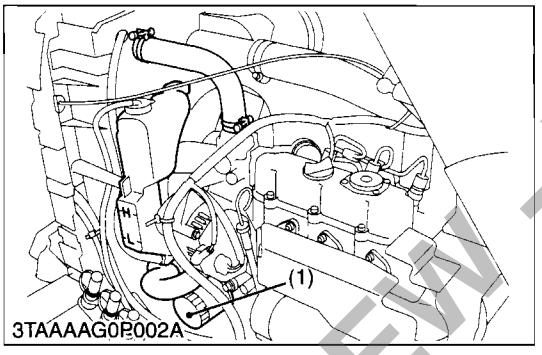
- **When using an oil of different manufacture or viscosity from the previous one, remove all of the oid oil.**
- **Never mix two different types of oil.**
- **Use the proper SAE Engine Oil according to ambient temperatures.**
- **Refer to "LUBRICANTS, FUEL AND COOLANT". (See page G-7.)**

Engine oil capacity	3.1 L 3.3 U.S.qts 2.7 Imp.qts

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

(A) Oil level is acceptable within this range.

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Replacing Engine Oil Filter

CAUTION

- **Be sure to stop the engine before changing oil filter cartridge.**

1. Remove the oil filter.
2. Put a film of clean engine oil on the rubber seal of the new filter.
3. Tighten the filter quickly until it contacts the mounting surface. Tighten filter by hand an additional 1/2 turn only.
4. After the new filter has been replaced, the engine oil normally decrease a little. Make sure that the engine oil does not leak through the seal and be sure to check the oil level on the dipstick. Then, replenish the engine oil up to the specified level.
5. Properly dispose of used oil.

■ IMPORTANT

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

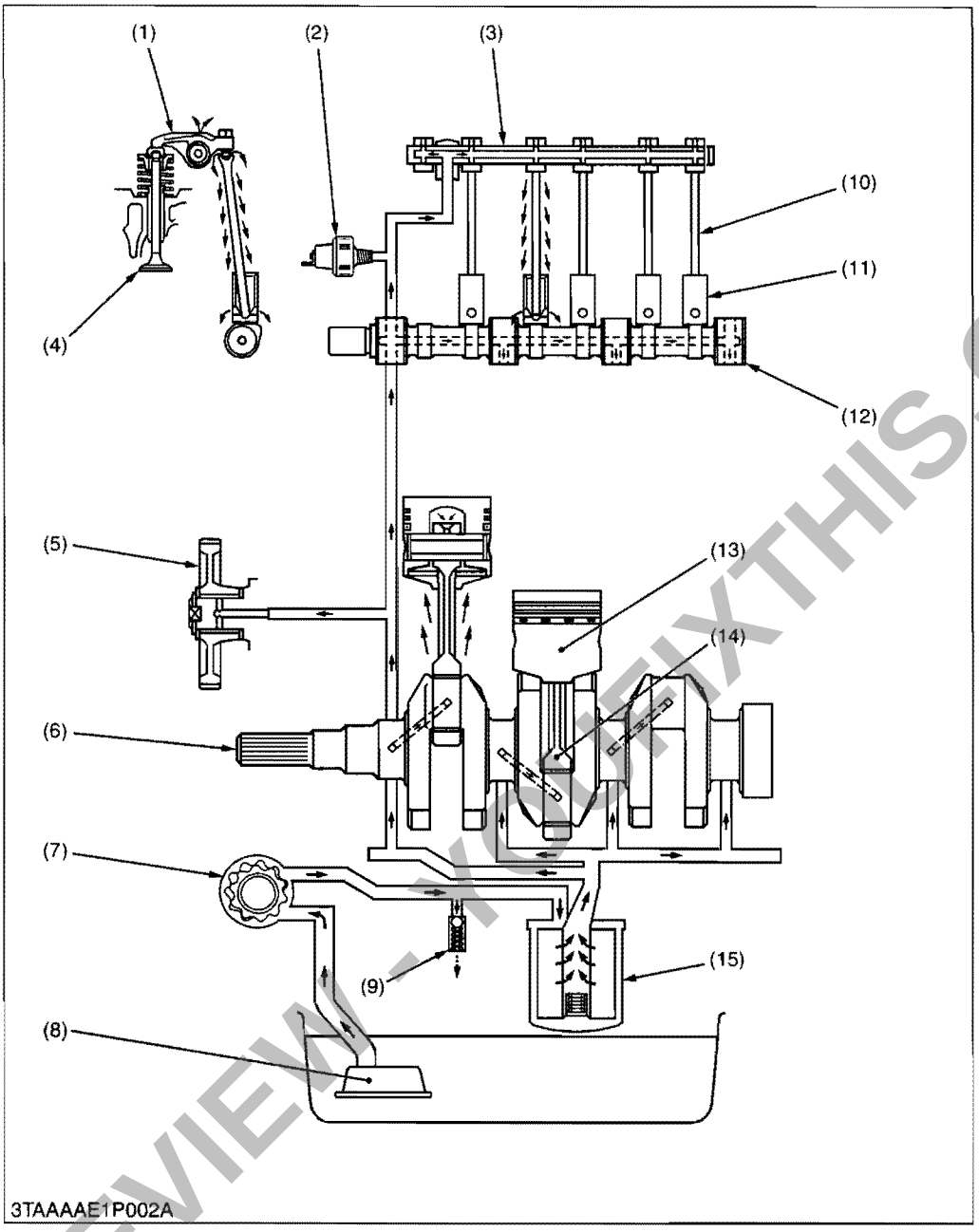
(1) Engine Oil Filter Cartridge

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1. LUBRICATING SYSTEM



(1) Rocker Arm
(2) Oil Pressure Switch
(3) Rocker Arm Shaft
(4) Valve
(5) Idle Gear
(6) Crankshaft
(7) Oil Pump
(8) Oil Strainer
(9) Relief Valve
(10) Push Rod
(11) Tappet
(12) Camshaft
(13) Piston
(14) Connecting Rod
(15) Oil Filter Cartridge

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This engine's lubricating system consists of oil strainer (8), oil pump (7), relief valve (9), oil filter cartridge (15) and oil pressure switch (2).

The oil pump sucks lubricating oil from the oil pan through the oil strainer and the oil flows down to the filter cartridge, where it is further filtered. Then the oil is forced to crankshaft (6), connecting rods (14), idle gear (5), camshaft (12) and rocker arm shaft (3) to lubricate each part.

Some part of oil, splashed by the crankshaft or leaking and dropping from gaps of each part, lubricates these parts: piston (13), cylinders, small ends or connecting rods, tappets (11), push rods (10), inlet and exhaust valves (4) and timing gears.

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1. TROUBLESHOOTING

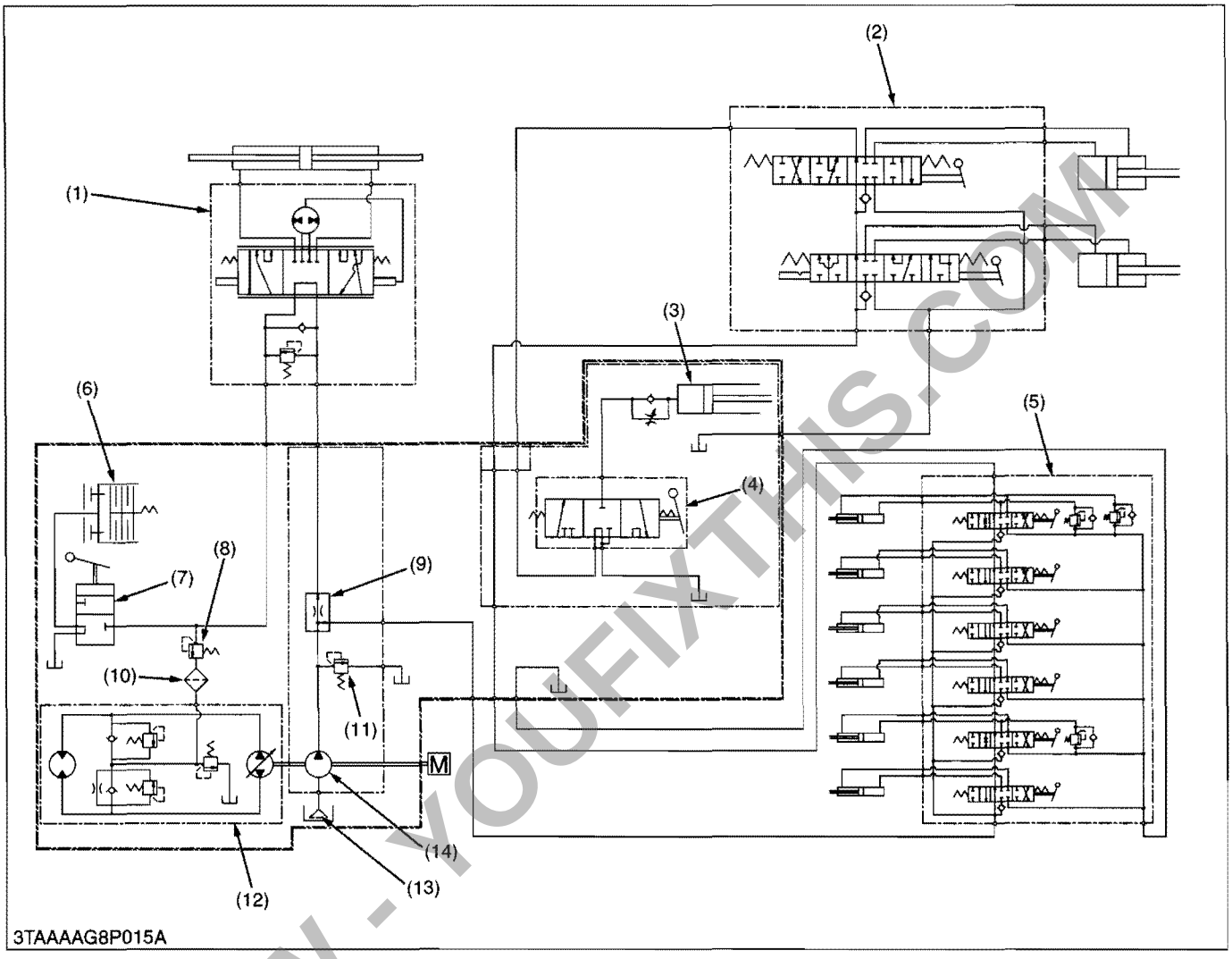
Symptom	Probable Cause	Solution	Reference Page
Engine Does Not Start	No fuel	Replenish fuel	G-7
	Air in the fuel system	Bleed	G-30
	Water in the fuel system	Change fuel and repair or replace fuel system	–
	Fuel pipe clogged	Clean	G-25
	Fuel filter clogged	Change	G-25
	Excessively high viscosity of fuel or engine oil at low temperature	Use specified fuel or engine oil	G-7
	Fuel with low cetane number	Use specified fuel	G-7
	Fuel leak due to loose injection pipe retaining nut	Tighten retaining nut	1-S25
	Incorrect injection timing	Adjust	1-S17
	Fuel camshaft worn	Replace	1-S35
	Injection nozzle clogged	Clean or replace	1-S26
	Injection pump malfunctioning	Replace	1-S30
	Seizure of crankshaft, camshaft, piston, cylinder or bearing	Repair or replace	1-S34
	Compression leak from cylinder	Replace head gasket, tighten cylinder head screw, glow plug and nozzle holder	1-S26, S27
	Improper valve timing	Correct or replace timing gear	1-S34
	Piston ring and cylinder worn	Replace	1-S35 to S37
	Excessive valve clearance	Adjust	1-S13
Starter Does Not Run	Battery discharged	Charge	G-17
	Starter malfunctioning	Repair or replace	6-S27
	Main switch malfunctioning	Repair or replace	6-S9
	Safety switches malfunctioning	Adjust or replace	6-S8, S9
	Wiring disconnected	Connect	–
Engine Revolution Is Not Smooth	Fuel filter clogged or dirty	Replace	G-19
	Air cleaner clogged	Clean or replace	G-18
	Fuel leak due to loose injection pipe retaining nut	Tighten retaining nut	1-S26
	Injection pump malfunctioning	Replace	1-S30
	Incorrect nozzle injection pressure	Adjust	1-S20
	Injection nozzle stuck or clogged	Repair or replace	1-S26
	Governor malfunctioning	Repair	1-S30

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1. HYDRAULIC CIRCUIT



(1) Power Steering Controller
(2) Front Loader Control Valve
(3) Hydraulic Cylinder
(4) Control Valve
(5) Backhoe Control Valve
(6) PTO Clutch
(7) PTO Clutch Valve
(8) PTO Clutch Relief Valve
(9) Flow Priority Valve
(10) Oil Filter
(11) Relief Valve
(12) Hydraulic Transmission
(13) Oil Strainer
(14) Hydraulic Pump

The hydraulic system of this tractor is composed of a hydraulic pump, control valve, hydraulic cylinder and other components.

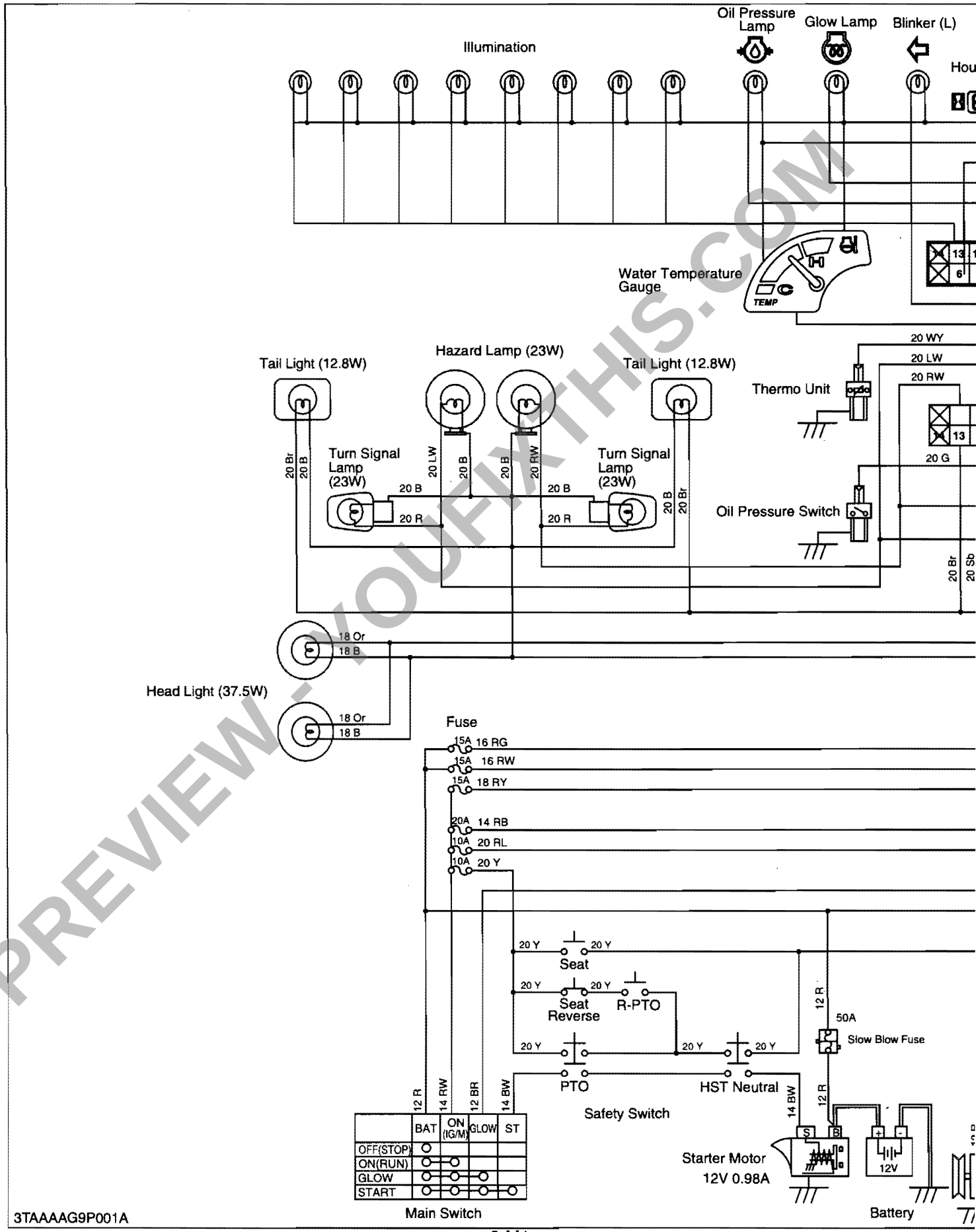
This system has the following functions.

1. Oil is supplied by hydraulic pump which is driven by pump drive shaft in the transmission case. As the pump drive shaft is connected to the propeller shaft, hydraulic pump starts running when engine is started.
2. The hydraulic pump supplies the high pressured oil to control valve for 3 point hitch system, power steering controller, PTO clutch valve and hydrostatic transmission after dividing oil flow by flow priority valve.
3. Hydraulic power take off from the hydraulic block type outlet to operate the implements such as a front loader and so on.

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1. WIRING DIAGRAM



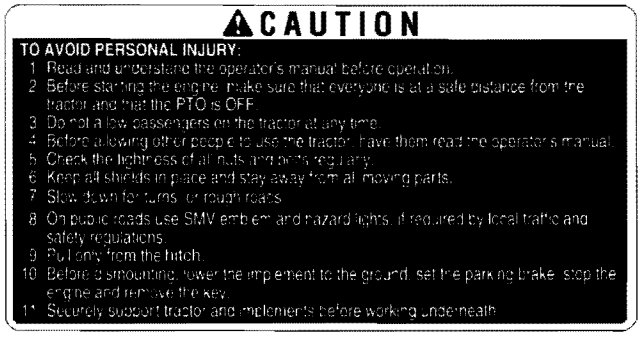
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SAFETY DECALS

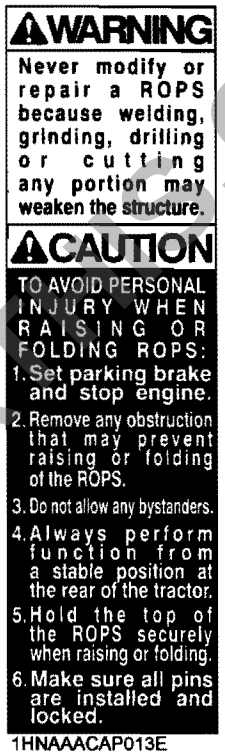
The following safety decals are installed on the machine.
If a decal becomes damaged, illegible or is not on the machine, replace it. The decal part number is listed in the parts list.

(1) Part No. K2581-6548-1



1AGAJAXAP042E

(2) Part No. K2581-6548-1



1HNAAACAP013E

(3) Part No. K2581-6552-1

Do not put hands under the rear fender.



1AGAJAXAP047E

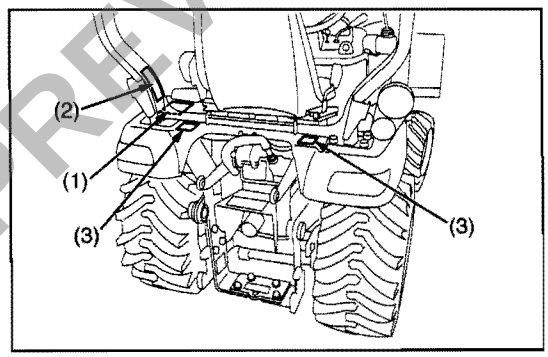
(4) Part No. K2581-6549-1

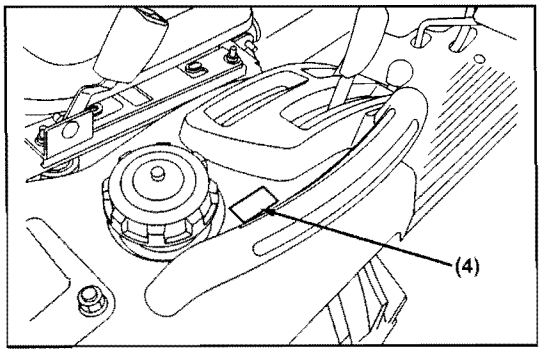
Diesel fuel only

No fire



1AGAMAAAP2480





3TAAAAGCP004A

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SERVICING

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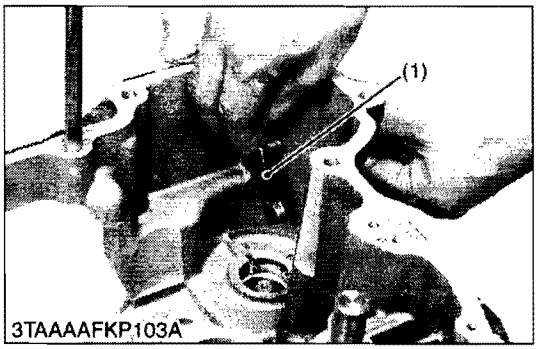
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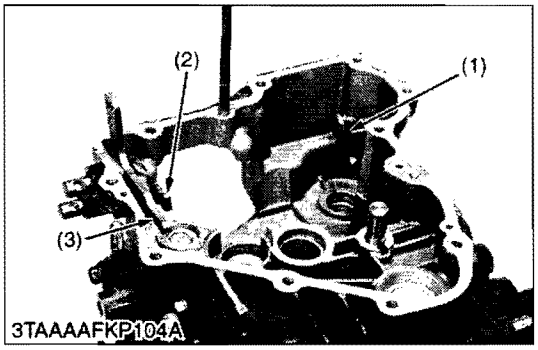
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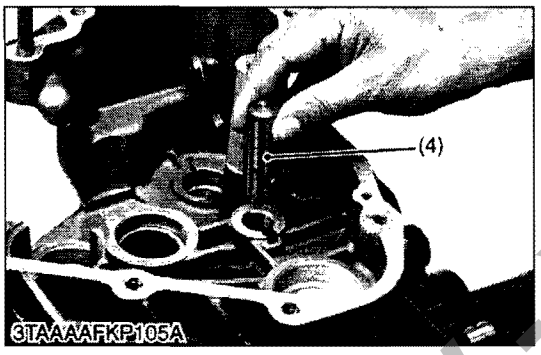
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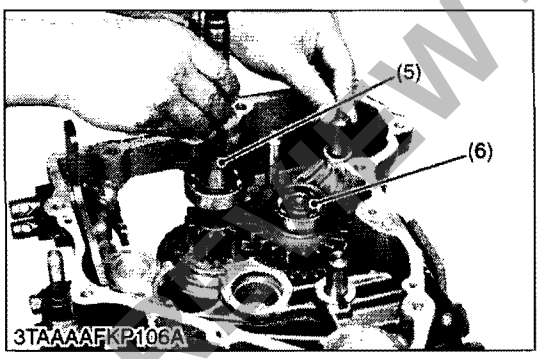
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(4) Assembling Shafts









Assembling Select Arms and HST Pump Shaft (PTO Clutch Shaft)

1. Install the PTO select arm (1).
2. Install the range shift arm (2) and the front wheel drive shaft arm (3).
3. Install the idle gear shaft.

■ **NOTE**

- **Install the rear PTO cover and the PTO select gear shaft before installing HST pump shaft assembly.**

4. After installing the rear PTO cover to the transaxle case, install the PTO select gear shaft (6). (Refer to page 2-S37.).
5. Install the HST pump shaft (PTO clutch shaft) (6).

(When reassembling)

- Take care not to damage the O-rings on the arms.

(1) PTO Select Arm
(2) Range Shift Arm
(3) Front Wheel Drive Shift Arm
(4) Mid-PTO Idle Gear Shaft
(5) HST Pump Shaft (PTO Clutch Shaft)
(6) PTO Select Gear Shaft

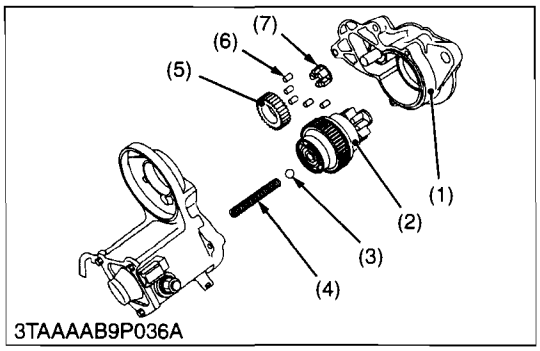
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Magnet Switch

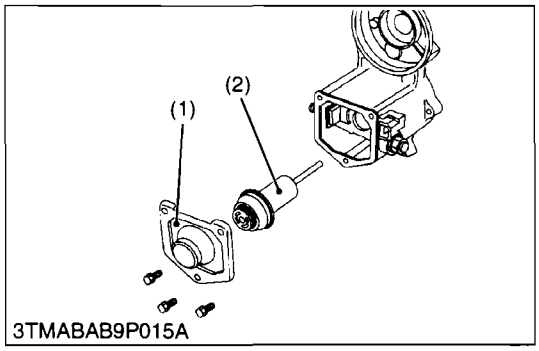
1. Remove the drive end frame (1) mounting screws.
2. Take out the overrunning clutch (2), ball (3), spring (4), gears (5), rollers (6) and retainer (7).

(When reassembling)

- Apply grease to the gear teeth of the gears (5) and overrunning clutch (2), and ball (3).

(1) Drive End Frame
(2) Overrunning Clutch
(3) Ball
(4) Spring
(5) Gear
(6) Roller
(7) Retainer

W1016728



Plunger

1. Remove the end cover (1).
2. Take out the plunger (2).

(1) End Cover
(2) Plunger

W1016883

(2) Alternator



Alternator

1. Check the battery charging voltage while engine runs.
2. Check the increasing voltage when increasing the engine revolution.
3. If the battery charging voltage does not increase, the alternator is faulty.
4. Replace the alternator as an assembly.

(1) Battery

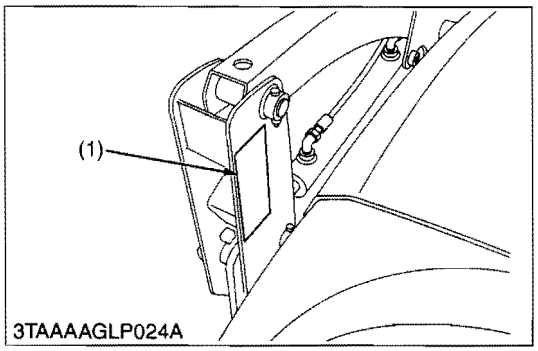
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1. GENERAL

[1] IDENTIFICATION

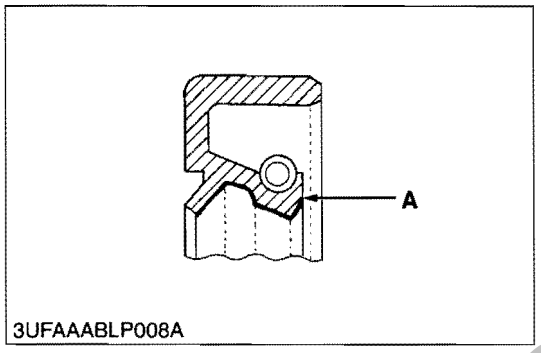


When contacting your local KUBOTA distributor, always specify front loader model and serial number.

(1) Model / Serial Number

W1010468

[2] GENERAL PRECAUTION



- During disassembly, carefully arrange removed parts in a clean area to prevent later confusion. Screws, bolts and nuts should be replaced in their original positions to prevent reassembly errors.
- When special tools are required, use genuine KUBOTA tools. Special tools which are not used frequently should be made according to the drawings provided.
- Clean parts before measuring them.
- Use only genuine KUBOTA parts for parts replacement to maintain loader performance and to assure safety.
- O-ring and oil seals must be replaced during reassembly. Apply grease to new O-rings or oil seals before reassembling.

A : Grease

W1010531

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