GENERAL

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⚠ 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.

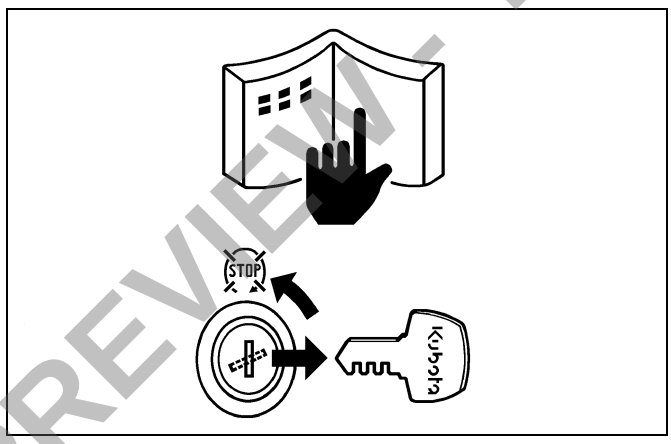
⚠ DANGER : Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠ 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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SPECIFICATIONS

Model			B26
			4WD
PTO power			14.5 kW (19.5 HP)*
Engine	Maker		KUBOTA
	Model		D1105-E2-D21 / D1105-E3-TLB
	Type		Indirect injection. Vertical, water-cooled 4-cycle diesel
	No. of cylinders		3
	Bore and stroke		ϕ 78 × 78.4 mm (ϕ 3.1 × 3.1 in.)
	Total displacement		1123 cm^3 (68.5 cu. in.)
	Engine gross power		19.4 kW (26.0 HP)*
	Rated revolution		2800 min^{-1} (rpm)
	Maximum torque		77.6 N·m (57.2 lbf·ft)
	Battery		12 V, RC: 79 min., CCA: 433A
	Fuel		Diesel fuel No. 1 [below −10 °C (14 °F)], Diesel fuel No. 2 [above −10 °C (14 °F)]
Capacities	Fuel tank		31 L (8.1 U.S.gals, 6.8 Imp.gals)
	Engine crankcase (with filter)		3.0 L (3.2 U.S.qts, 2.6 Imp.qts)
	Engine coolant		4.5 L (4.7 U.S.qts, 4.0 Imp.qts)
	Transmission case (with oil tank)		26 L (6.9 U.S.gals, 5.7 Imp.gals)
Dimensions	Overall length (without 3P)		2557 mm (100.7 in.)
	Overall width (min. tread)		1365 mm (53.7 in.)
	Overall height (with canopy)		2273 mm (89.5 in.)
	Wheel base		1581 mm (62.2 in.)
	Min. ground clearance		350 mm (13.8 in.)
	Tread	Front	905 mm (35.6 in.)
		Rear	1050 mm (41.3 in.)
Weight (with ROPS and FOPS, main frame)			1182 kg (2606 lbs)
Clutch			N/A
Traveling system	Tires	Front	23 × 8.50-14
		Rear	12.4-16
	Steering		Hydrostatic type power steering
	Transmission		Main-hydrostatic transmission, 3 range gear shift (3 forward, 3 reverse)
	Brake		Wet disk type
	Min. turning radius (without brake)		2.5 m (8.2 feet)
Hydraulic unit	Hydraulic control system		Position control
	Pump capacity		3P : 26.3 L/min. (7.0 U.S.gals/min., 5.8 Imp.gals/min.) Power steering : 16.0 L/min. (4.2 U.S.gals/min., 3.5 Imp.gals/min.)
	Three point hitch		SAE Category 1
	Max. lift force	At lift points	970 kg (2139 lbs)
		24 in. behind lift point	760 kg (1676 lbs)
PTO	Rear PTO		SAE 1-3/8, 6 splines
	PTO / Engine speed		1 speed 540 min^{-1} (rpm) / 2768 min^{-1} (rpm)

NOTE: * Manufacture's estimate The company reserves the right to change the specifications without notice.

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6. MAINTENANCE

No.	Item		Indication on hour meter														Interval	Reference page	Important	
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Greasing	–	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50 Hr	G-21		
2	Engine start system	Check	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50 Hr	G-22		
3	Wheel bolt torque	Check	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50 Hr	G-22		
4	Main frame bolt torque	Check	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50 Hr	G-23		
5	Air cleaner element [Double element type] Primary element	Clean		☆		☆		☆		☆		☆		☆		☆	every 100 Hr	G-24	*1	@
		Replace															every 1 year	G-33	*2	
	Air cleaner element [Double element type] Secondary element	Replace															every 1 year	G-33		
6	Fuel filter element	Clean		☆		☆		☆		☆		☆		☆		☆	every 100 Hr	G-24		@
		Replace								☆							every 400 Hr	G-31		
7	Fan belt	Adjust		☆		☆		☆		☆		☆		☆		☆	every 100 Hr	G-25		
8	Fuel line	Check		☆		☆		☆		☆		☆		☆		☆	every 100 Hr	G-25		@
		Replace															every 2 year	G-36	*3	
9	Brake	Adjust		☆		☆		☆		☆		☆		☆		☆	every 100 Hr	G-25		
10	Battery condition	Check		☆		☆		☆		☆		☆		☆		☆	every 100 Hr	G-26	*4	
11	Spark arrester	Clean		☆		☆		☆		☆		☆		☆		☆	every 100 Hr	G-28		
12	Engine oil	Change	★			☆				☆				☆			every 200 Hr	G-29		
13	Engine filter	Replace	★			☆				☆				☆			every 200 Hr	G-29		
14	HST oil filter	Replace	★			☆				☆				☆			every 200 Hr	G-29		
15	Radiator hose and clamp	Check				☆				☆				☆			every 200 Hr	G-29		
		Replace															every 2 year	G-36		

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1. TROUBLESHOOTING

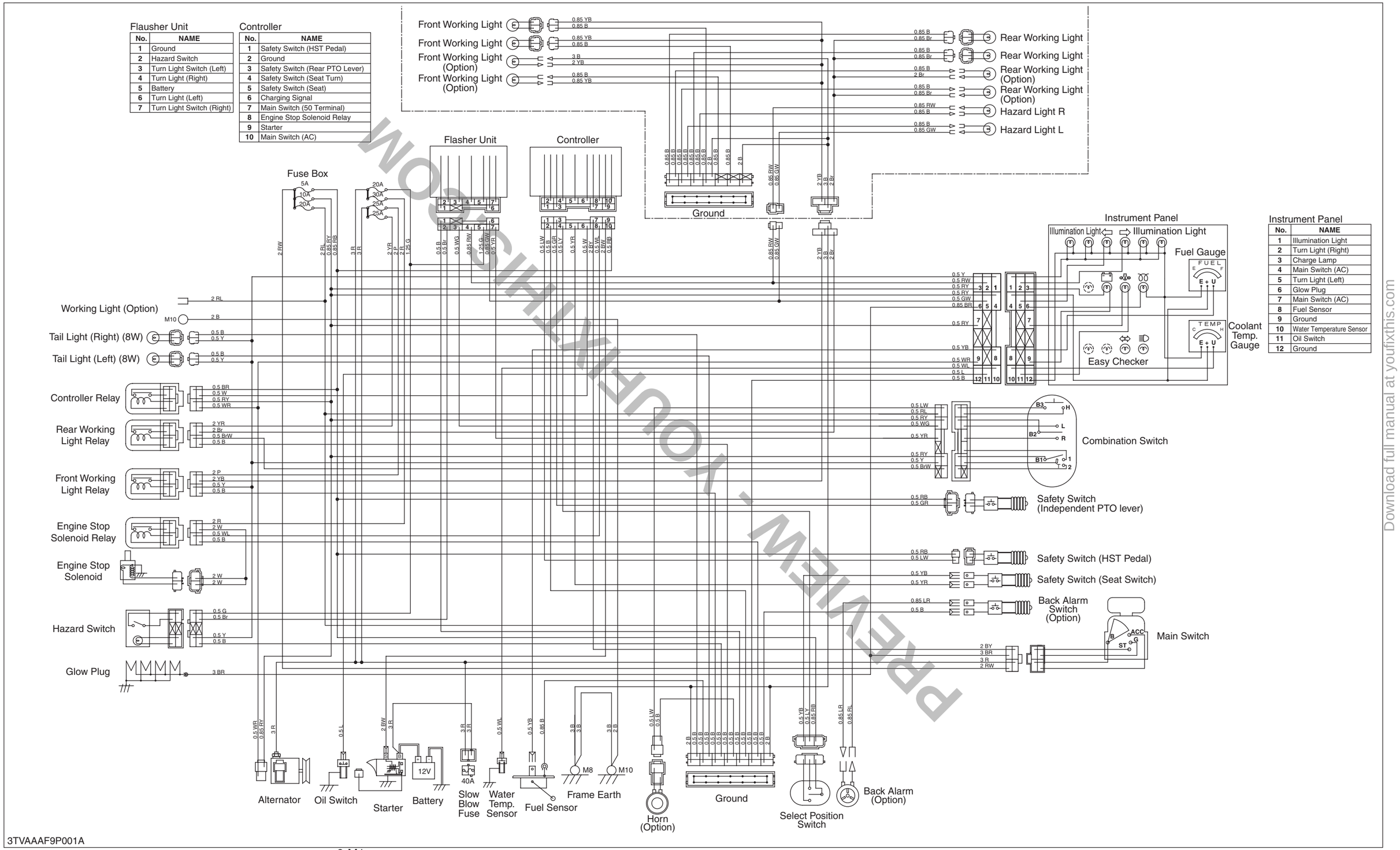
Symptom	Probable Cause	Solution	Reference Page
Engine Does Not Start	No fuel	Replenish fuel	–
	Air in the fuel system	Bleed	G-37
	Water in the fuel system	Change fuel and repair or replace fuel system	–
	Fuel hose clogged	Clean	–
	Fuel filter clogged	Change	G-31
	Excessively high viscosity of fuel or 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-S17
	Injection nozzle clogged	Repair or replace	1-S19
	Injection pump malfunctioning	Replace	1-S36
	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-S32, S33
	Improper valve timing	Correct or replace timing gear	1-S37
	Piston ring and cylinder worn	Replace	1-S39, S40
	Excessive valve clearance	Adjust	1-S13
Engine Revolution Is Not Smooth	Fuel filter clogged or dirty	Replace	G-31
	Air cleaner clogged	Clean or replace	G-24
	Fuel leak due to loosing injection pipe retaining nut	Tighten retaining nut	1-S32
	Injection pump malfunctioning	Replace	1-S36
	Incorrect nozzle injection pressure	Adjust	1-S19
	Injection nozzle stuck or clogged	Repair or replace	1-S20
	Governor malfunctioning	Repair	–
Either White or Blue Exhaust Gas Is Observed	Excessive engine oil	Reduce to specified level	G-29
	Piston ring and cylinder worn or stuck	Repair or replace	1-S39, S40
	Incorrect injection timing	Adjust	1-S17
	Deficient compression	Repair	1-S12, S53, S58

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1. WIRING DIAGRAM

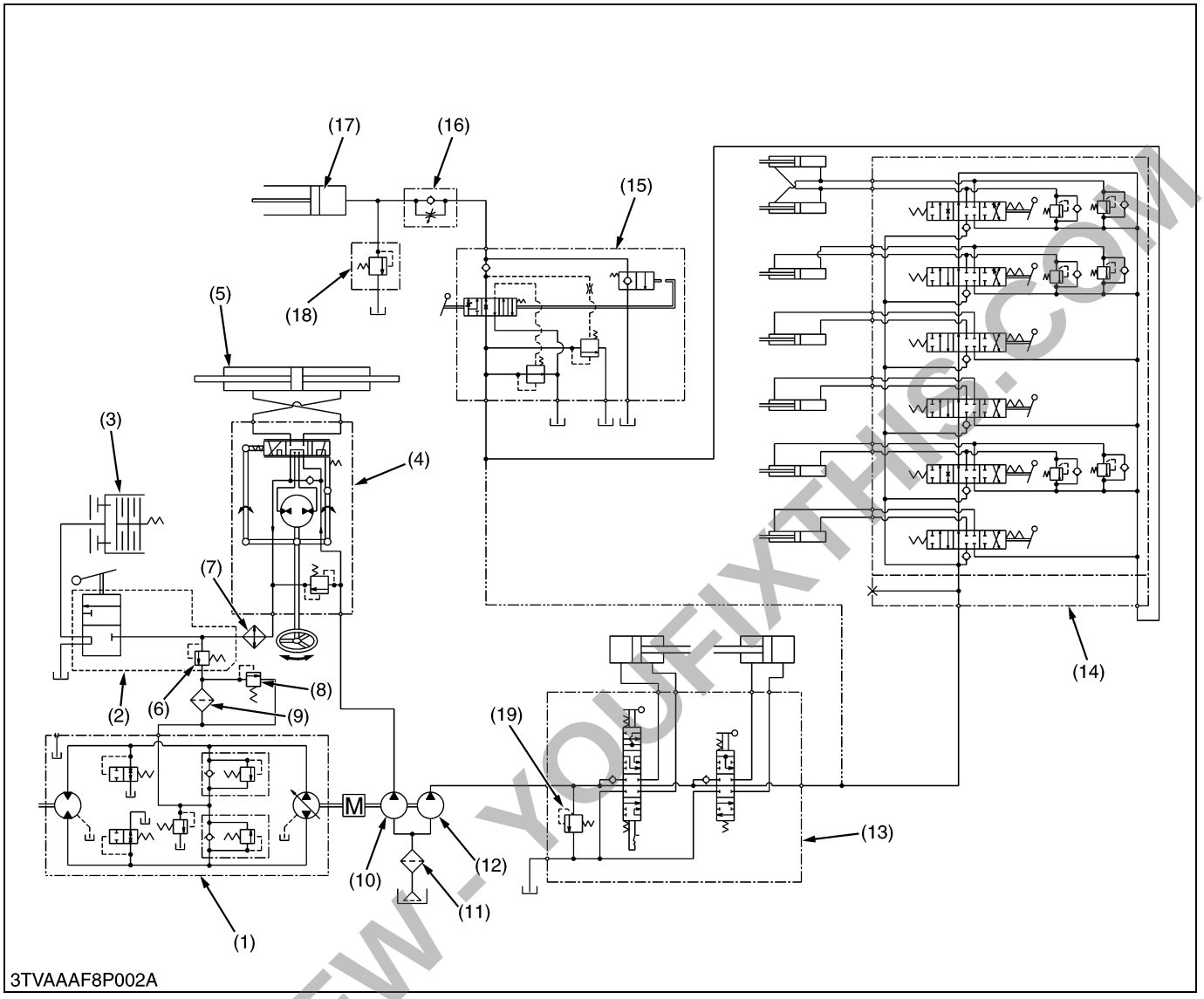


WORKSHOP MANUAL
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3TVAAAF9P001A

2. HYDRAULIC CIRCUIT



3TVAAAF8P002A

(1) Hydrostatic Transmission (HST)
(2) Independent PTO Control Valve
(3) Independent PTO Clutch
(4) Power Steering Controller
(5) Power Steering Cylinder
(6) Relief Valve
(7) Oil Cooler
(8) Relief Valve
(9) Oil Filter Cartridge
(10) Hydraulic Pump (for Power Steering, Independent PTO and HST)
(11) Oil Filter
(12) Hydraulic Pump (for Front Loader, Backhoe and 3-point Hitch)
(13) Front Loader Control Valve
(14) Backhoe Control Valve
(15) Position Control Valve (for 3-point Hitch)
(16) Lowering Speed Adjusting Valve
(17) Hydraulic Cylinder
(18) Safety Valve
(19) Main Relief Valve

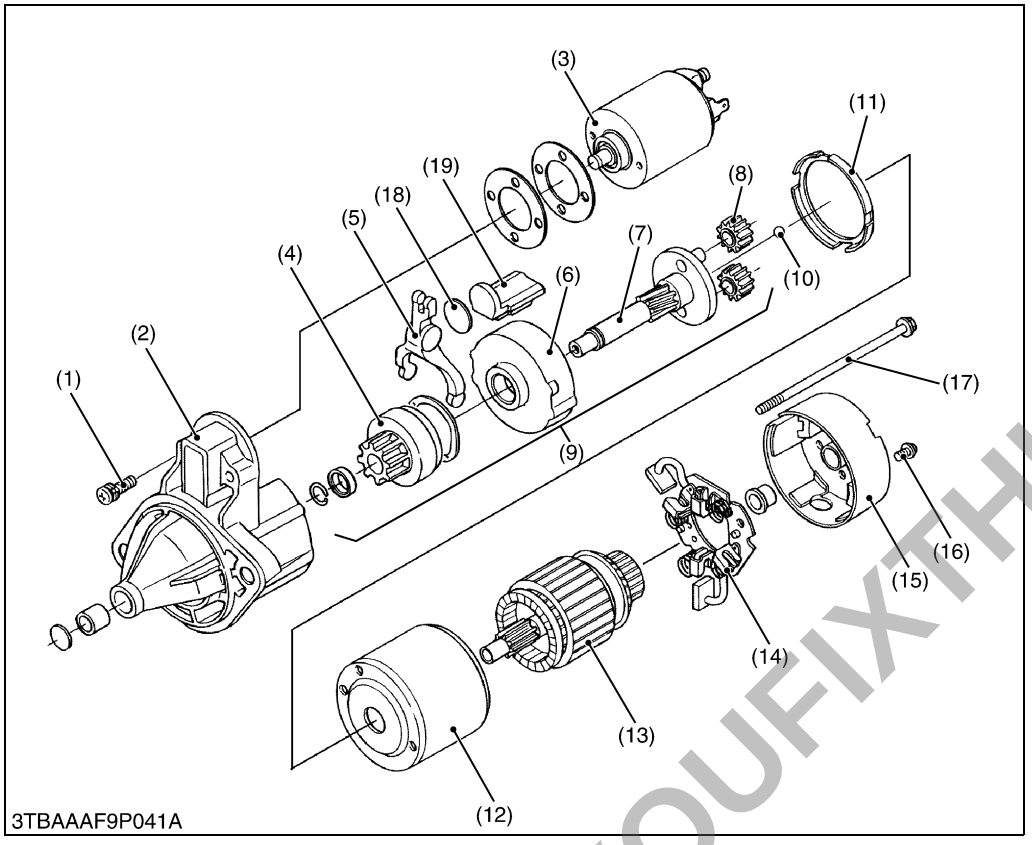
The hydraulic system are composed of hydraulic pumps (10) (12), power steering (4), independent PTO (2), HST (1), and 3-points hitch, front loader, backhoe and other components.

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[2] DISASSEMBLING AND ASSEMBLING

(1) Starter



(1) Screw
(2) Front Bracket
(3) Magnetic Switch
(4) Overrunning Clutch
(5) Drive Lever
(6) Internal Gear
(7) Shaft
(8) Planetary Gear
(9) Shaft Assembly
(10) Ball
(11) Gasket
(12) Yoke
(13) Armature
(14) Brush Holder
(15) Rear End Frame
(16) Screw
(17) Through Bolt

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1. Disconnect the connecting lead from the magnetic switch (3).
2. Remove the screw (1) and remove the magnet switch (3).
3. Remove the screw (16) and through bolt (17), and separate the rear end frame (15).
4. Remove the brush holder (14).
5. Draw out the armature (13) and yoke (12).
6. Remove the gasket (11), gasket (19) and plate (18).
7. Draw out the shaft assembly (9) with the drive lever (5).

■ **NOTE**
- **Do not damage the brush and commutator.**
- **Do not miss the ball (10).**

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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	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 (6 mm, 0.24 in.)	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 (8 mm, 0.31 in.)	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 (10 mm, 0.39 in.)	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 (12 mm, 0.47 in.)	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 (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	lbf·ft	N·m	kgf·m	lbf·ft
M8 (8 mm, 0.31 in.)	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 (10 mm, 0.39 in.)	25 to 31	2.5 to 3.2	18 to 23	20 to 25	2.0 to 2.6	15 to 18
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
M14 (14 mm, 0.55 in.)	62 to 73	6.3 to 7.5	46 to 54	–	–	–
M16 (16 mm, 0.63 in.)	98.1 to 112	10.0 to 11.5	72.4 to 83.1	–	–	–
M18 (18 mm, 0.71 in.)	172 to 201	17.5 to 20.5	127 to 148	–	–	–

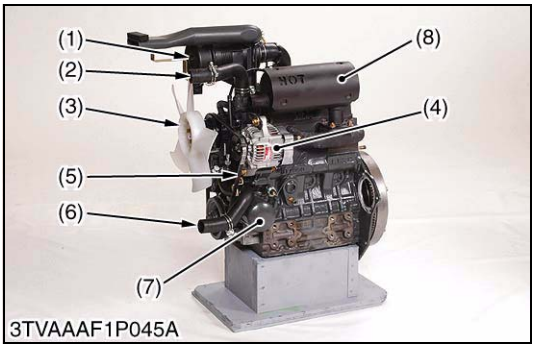
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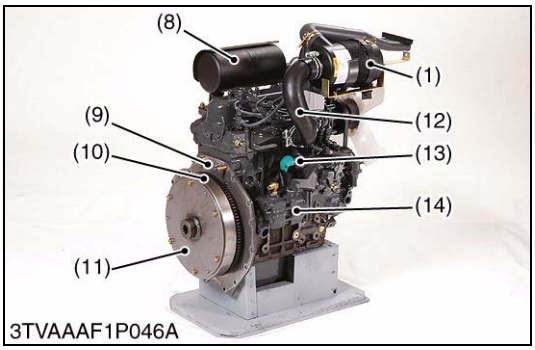
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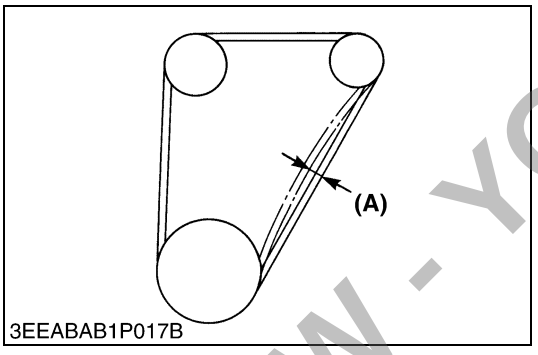
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[3] DISASSEMBLING AND ASSEMBLING

(1) External Components







Engine External Components

1. Remove the air-cleaner assembly (1).
2. Remove the radiator hoses (2) (6).
3. Remove the cooling fan(3) and the fan belt (5).
4. Remove the alternator (4) and the engine oil filter cartridge (7)
5. Remove the exhaust muffler (8).
6. Remove the air-cleaner inlet hose (12)
7. Remove the engine stop solenoid (13)
8. Remove the hydraulic pump assembly (14)
9. Remove the steel plate (11) from the fly wheel (10).

(When reassembling)

- Adjust the fan belt tension securely.

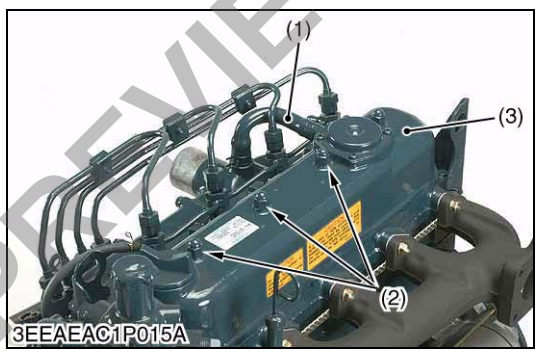
Deflection **(A)**	Factory spec.	7.0 to 9.0 mm 0.28 to 0.35 in.

(1) Air Cleaner Assembly
(2) Radiator Hose
(3) Cooling Fan
(4) Alternator
(5) Fan Belt
(6) Radiator Hose
(7) Engine Oil Filter Cartridge
(8) Exhaust Muffler
(9) Rear End Plate
(10) Fly Wheel
(11) Steel Plate
(12) Air Cleaner Inlet Hose
(13) Engine Stop Solenoid
(14) Hydraulic Oil Pump Assembly

(A) Deflection

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(2) Cylinder Head and Valve and Oil Pan



Cylinder Head Cover

1. Disconnect the breather hose (1).
2. Remove the head cover nut (2).
3. Remove the cylinder head cover (3).

(When reassembling)

- Check to see if the cylinder head cover gasket is not defective.

Tightening torque	Cylinder head cover nut	6.9 to 8.8 N·m 0.70 to 0.90 kgf·m 5.1 to 6.5 lbf·ft

(1) Breather Hose
(2) Head Cover Screws
(3) Cylinder Head Cover

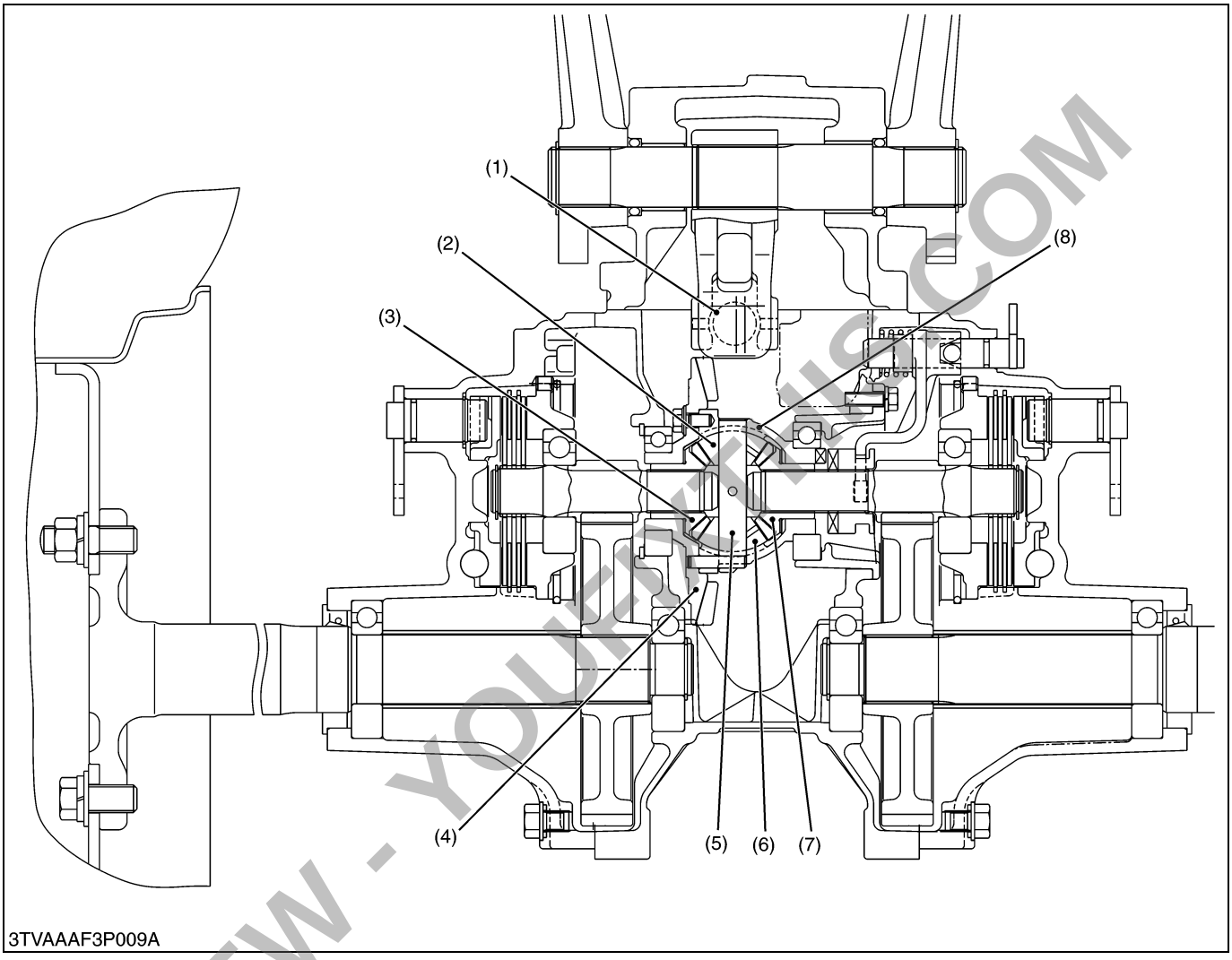
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6. DIFFERENTIAL GEAR SYSTEM

[1] DIFFERENTIAL FUNCTION



3TVAAAF3P009A

(1) Spiral Bevel Pinion
(2) Differential Pinion
(3) Differential Side Gear
(4) Spiral Bevel Gear
(5) Differential Pinion Shaft
(6) Differential Pinion
(7) Differential Side Gear
(8) Differential Case

■ **During Straight Running**

Rotation of the spiral bevel pinion (1) is transmitted to the spiral bevel gear (4) and differential case (8). When road resistance to the right and left wheels are equal, differential pinions (2), (6) and differential side gears (3), (7) are all rotate as a unit. Both rear axles received equal input, and both wheels turn at the same speed, allowing the tractor to ho straight ahead. At this time, differential pinions (2), (6) does not rotate around the differential pinion shaft (5).

■ **During Turning**

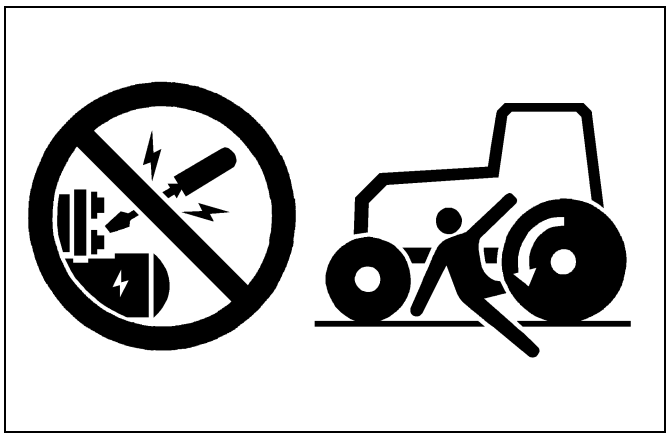
When the tractor turns, the road resistance to the inside tire increases (as if braking is applied to that side only).

In other words, if one of tires slows down, revolution difference is generated in the differential side gears (3), (7). When rotation of one differential side gear becomes lower than the other, differential pinions (2), (6) begin rotating around differential pinion shaft (5). The other differential side gear is increased in speed by the speed increment of differential pinion shaft (5). This means that rotation of one rear axle is slowed down and that of the other rear axle is increased. Thus, the tractor turns smoothly without power loss.

The combined number of revolutions of the right and left differential side gears is always twice that of the spiral bevel gear (4). When spiral bevel gear revolution is 100 rpm, and if one of the differential side gears stops moving, the revolution of the other differential side gear becomes 200 rpm and if one rotates at 50 rpm, the other rotates at 150 rpm.

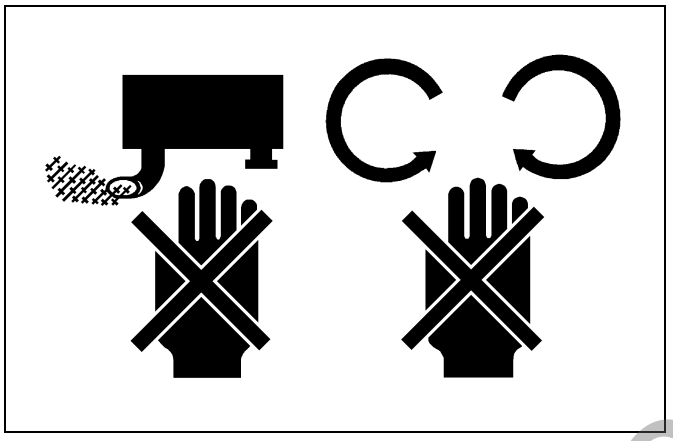
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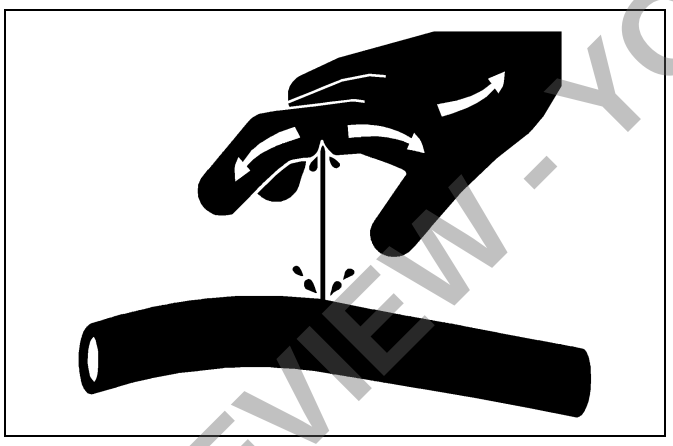
SAFETY STARTING

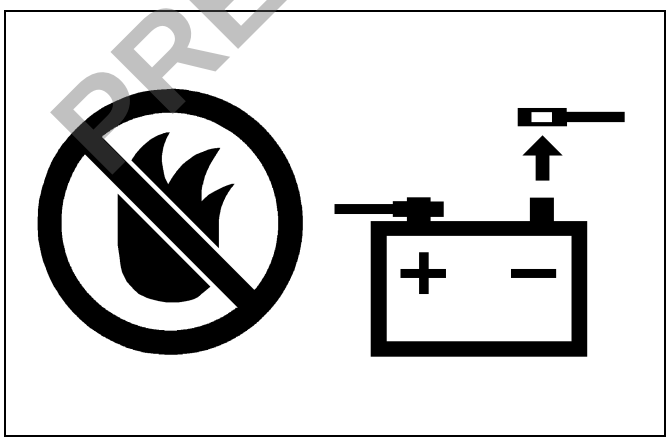
- Do not start the engine by shorting across starter terminals or bypassing the safety start switch.
- Do not alter or remove any part of machine safety system.
- Before starting the engine, make sure that all shift levers are in neutral positions or in disengaged positions.
- Never start the engine while standing on ground. Start the engine only from operator's seat.



SAFETY WORKING

- Do not work on the machine while under the influence of alcohol, medication, or other substances or while fatigued.
- Wear close fitting clothing and safety equipment appropriate to the job.
- Use tools appropriate to the work. Makeshift tools, parts, and procedures are not recommended.
- When servicing is performed together by two or more persons, take care to perform all work safely.
- Do not work under the machine that is supported solely by a jack. Always support the machine by safety stands.
- Do not touch the rotating or hot parts while the engine is running.
- Never remove the radiator cap while the engine is running, or immediately after stopping. Otherwise, hot water will spout out from radiator. Only remove radiator cap when cool enough to touch with bare hands. Slowly loosen the cap to first stop to relieve pressure before removing completely.
- Escaping fluid (fuel or hydraulic oil) under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or fuel lines. Tighten all connections before applying pressure.





AVOID FIRES

- Fuel is extremely flammable and explosive under certain conditions. Do not smoke or allow flames or sparks in your working area.
- To avoid sparks from an accidental short circuit, always disconnect the battery negative cable first and connect it last.
- Battery gas can explode. Keep sparks and open flame away from the top of battery, especially when charging the battery.
- Make sure that no fuel has been spilled on the engine.

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1 ENGINE

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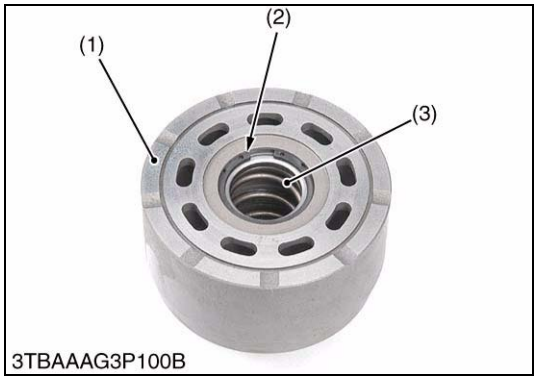
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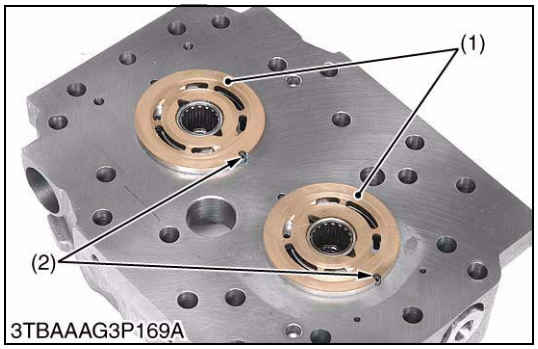


Cylinder Block Face

1. Check the polished face (1) of cylinder block for scoring.
2. If scored, replace cylinder block assembly.
3. Check the spring (3) for breakage.
4. If broken, replace cylinder block assembly.

(1) Polished Face
(2) Cir-clip
(3) Spring

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Valve Plate and Center Section Face

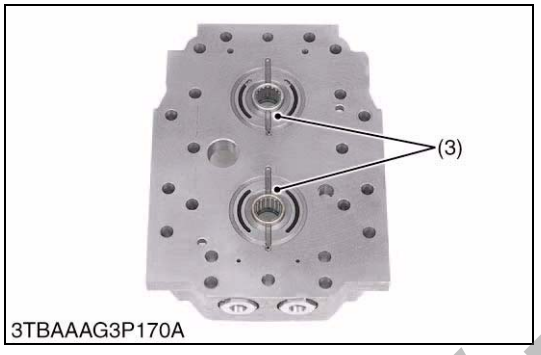
1. Check the engagement of the valve plate (1) and the anchor pin (2).
2. Pushing the valve plate (1) against the anchor pin (2), lift it to remove.
3. Check the valve plate (1) for foreign particles.
4. Clean the valve plate (1) and dry with compressed air.
5. Check the valve plate (1) for scratches, wear and erosion. (Run a finger nail across the valve plate surface. If worn, it will be felt.)
6. If worn or scored, replace it.

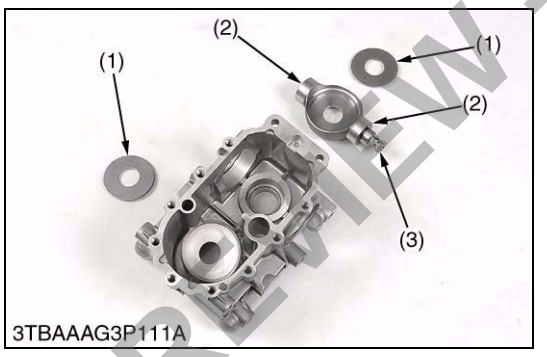
■ **NOTE**

- **After checking, coat them with hydrostatic transmission oil.**

(1) Valve Plates
(2) Anchor Pin
(3) Center Section Face

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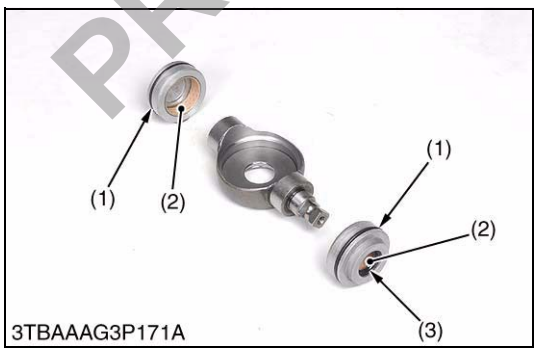


Thrust Plates and Bearing Surface

1. Check the thrust plate (1) for scratches and excessive wear.
2. If worn or scored, replace it.
3. Check the bearing surface (2) of trunnion shaft (swashplate)(3) for scratches and excessive wear.
4. If worn or scored, replace it.

(1) Thrust Plate
(2) Bearing Surface
(3) Trunnion Shaft

W1036630



Trunnion Shaft Cover

1. Check the bearing (2) for scratches and excessive wear.
2. If worn or scored, replace it.
3. Check the oil seal (3) and the O-rings (1) for damage.

■ **NOTE**

- **After checking, coat the bearings with hydrostatic transmission oil, and the oil seal lip and the O-rings (1) with grease.**

(1) O-ring
(2) Bearing
(3) Oil Seal

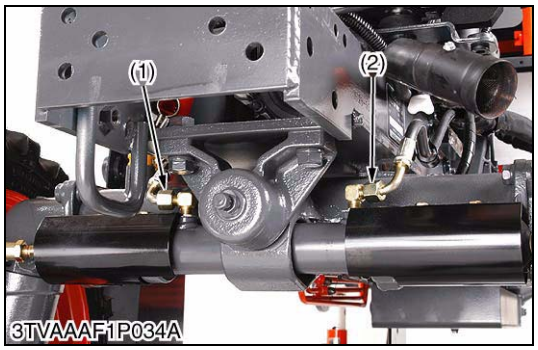
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4. CHECKING

[1] RELIEF VALVE



Relief Valve Operating Pressure

1. Disconnect the power steering hose LH (or RH) from steering the power steering cylinder, and set a pressure gauge and cable.

(Reference)

- Hose and adaptor size : 9/16-18UNF, 37 ° flare.

2. Start the engine and set at maximum speed (3000 min^{-1} (rpm)).
3. Fully turn the steering wheel to the left (or right) to check the feeling which the steering wheel lightly locks. Read the relief valve operating pressure when the steering wheel to the above-mentioned lock position by operation force at approximately 9.8 N (1.0 kgf, 2.2 lbf) of outer.

■ **NOTE**

- **After set a pressure gauge, be sure to bleed air.**
- **Note that the pressure value changes by the pump action of the power steering controller when the steering operation is continued after the steering wheel is lightly locked and accurate relief valve pressure cannot be measured.**

(Bleeding air in power steering circuit)

- Start the engine.
- Turn the steering wheel slowly in both directions all the way alternately several times, and stop the engine.

Relief valve operating pressure	Factory spec.	11.9 to 12.8 MPa 121 to 131 kgf/cm^2 1730 to 1860 psi

Tightening torque	Power steering hose retaining nut	25 to 28 N·m 2.5 to 2.9 kgf·m 18 to 20 lbf·ft

(1) Power Steering Hose (RH)
(2) Power Steering cylinder
(3) Power Steering Hose (LH)

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■ Digging Force (Per SAE J49)

With bucket cylinder	18731 N (4210 lbf)
With dipperstick cylinder	9444 N (2123 lbf)

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■ Cycle Time (Seconds)

Boom cylinder, extend	4.1
Boom cylinder, retract	3.0
Swing cylinder, from 90 ° to center	1.5
Dipperstick cylinder, extend	4.0
Dipperstick cylinder, retract	3.0
Bucket cylinder, extend	3.2
Bucket cylinder, retract	2.2
Stabilizer cylinder, max. height to ground	2.5
Stabilizer cylinder, ground to max. height	1.7

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■ Hydraulic Cylinders

	Boom cm (in.)	Dipperstick cm (in.)	Bucket cm (in.)	Stabilizer cm (in.)	Swing cm (in.)
Rod diameter	3.5 (1.38)	3.5 (1.38)	3.5 (1.38)	4.0 (1.57)	3.5 (1.38)
Cylinder bore	7.5 (2.95)	6.5 (2.56)	6.0 (2.36)	7.0 (2.76)	6.0 (2.36)

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■ Bucket Alternatives

	Width cm (in.)	SAE Struck Capacity m^3 (cu-ft)	SAE Heaped Capacity m^3 (cu-ft)	Number of Teeth	Weight kg (lbs)
Trenching 12”	30.5 (12)	0.024 (0.85)	0.031 (1.10)	3	38 (84)
Trenching 18”	45.7 (18)	0.038 (1.34)	0.052 (1.84)	4	42 (92)
Trenching 24”	61.0 (24)	0.053 (1.87)	0.074 (2.61)	5	48 (106)

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