WSM

WORKSHOP MANUAL
TRACTOR

STV32,STV36,STV40

Kubota

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KiSC issued 04, 2006 A

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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.**

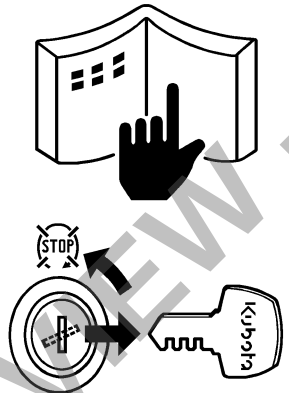
WARNING
- **Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.**

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.**

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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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SAFETY STARTING

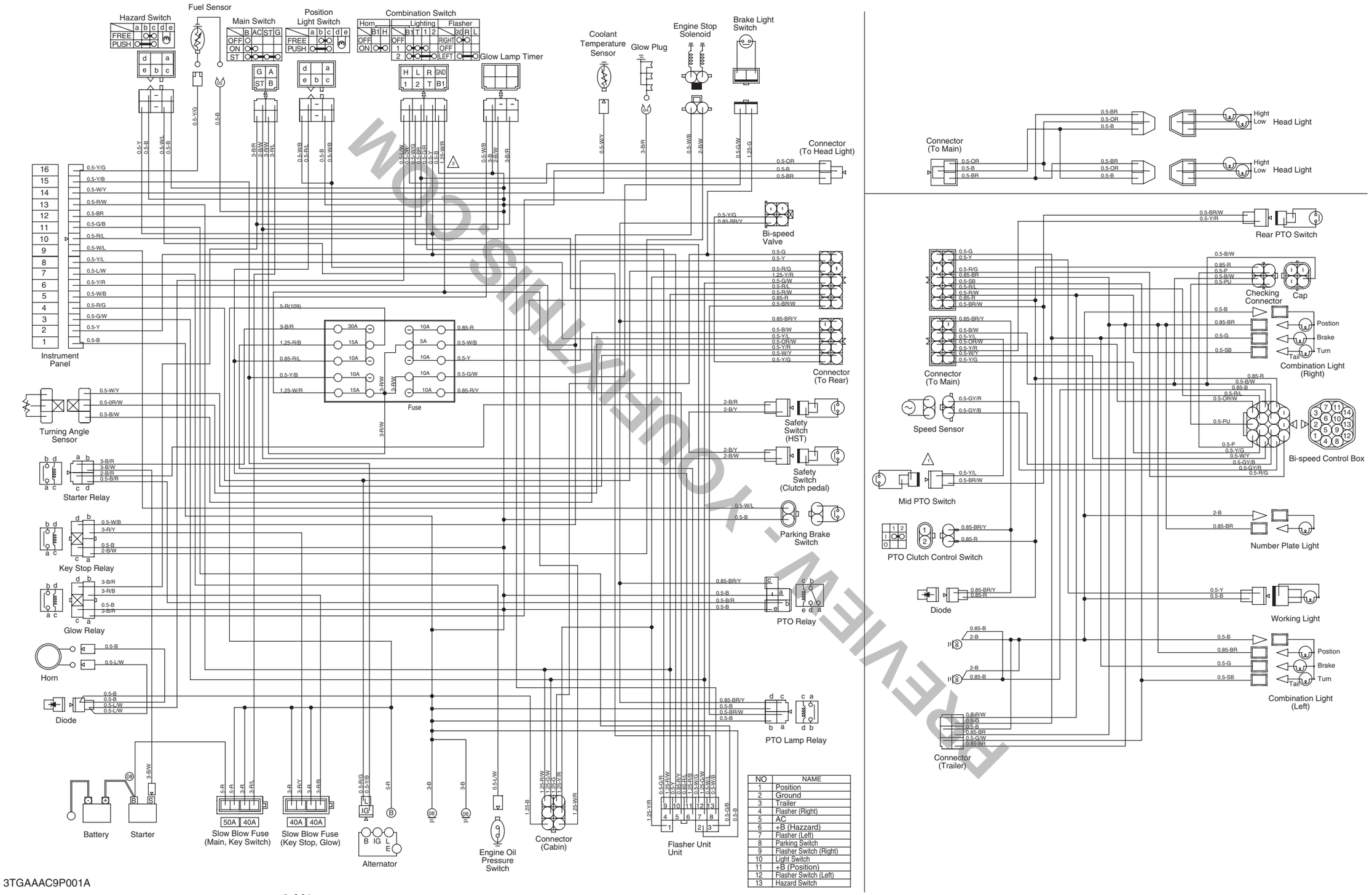
- Do not start the engine by shorting across starter terminals or bypassing the safety start switch.
- Do not alter or remove any part of machine safety system.
- Before starting the engine, make sure that all shift levers are in neutral positions or in disengaged positions.
- Never start the engine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

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1. WIRING DIAGRAM



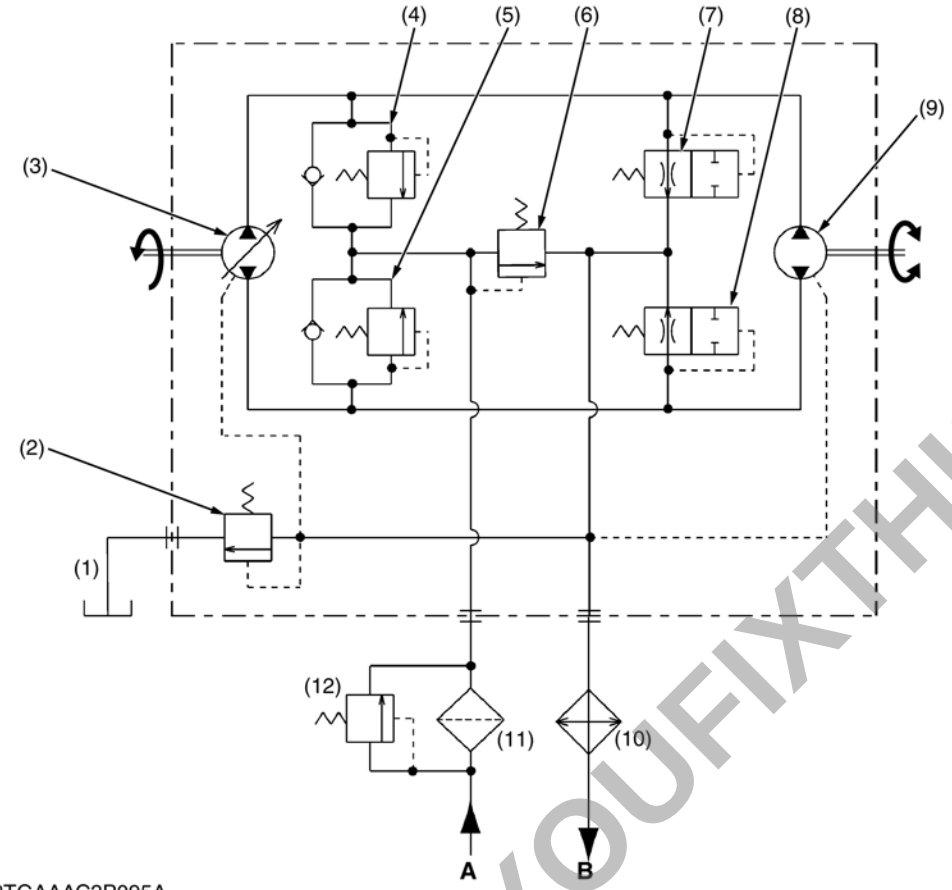
NO	NAME
1	Position
2	Ground
3	Trailer
4	Flasher (Right)
5	AC
6	+B (Hazzard)
7	Flasher (Left)
8	Parking Switch
9	Flasher Switch (Right)
10	Light Switch
11	+B (Position)
12	Flasher Switch (Left)
13	Hazard Switch

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3TGAAAC9P001A

(2) Hydraulic Circuit



3TGAAAC3P095A

(1) Oil Tank (Transmission Case)
(2) Case Relief Valve
(3) Variable Displacement Pump (HST Pump)
(4) Check and High Pressure Relief Valve (Forward)
(5) Check and High Pressure Relief Valve (Reverse)
(6) Charge Relief Valve
(7) Neutral Valve (Forward)
(8) Neutral Valve (Reverse)
(9) Fixed Displacement Motor (HST Motor)
(10) Oil Cooler
(11) Oil Filter
(12) Bypath Valve

A : From Power Steering Controller
B : To Hydraulic Pump

The HST pump is driven by the engine output power through the clutch and the drive shaft. The oil flow volume and its direction is controlled by operating the speed change pedal or the cruise control lever, then the output speed and direction of the HST motor is controlled.

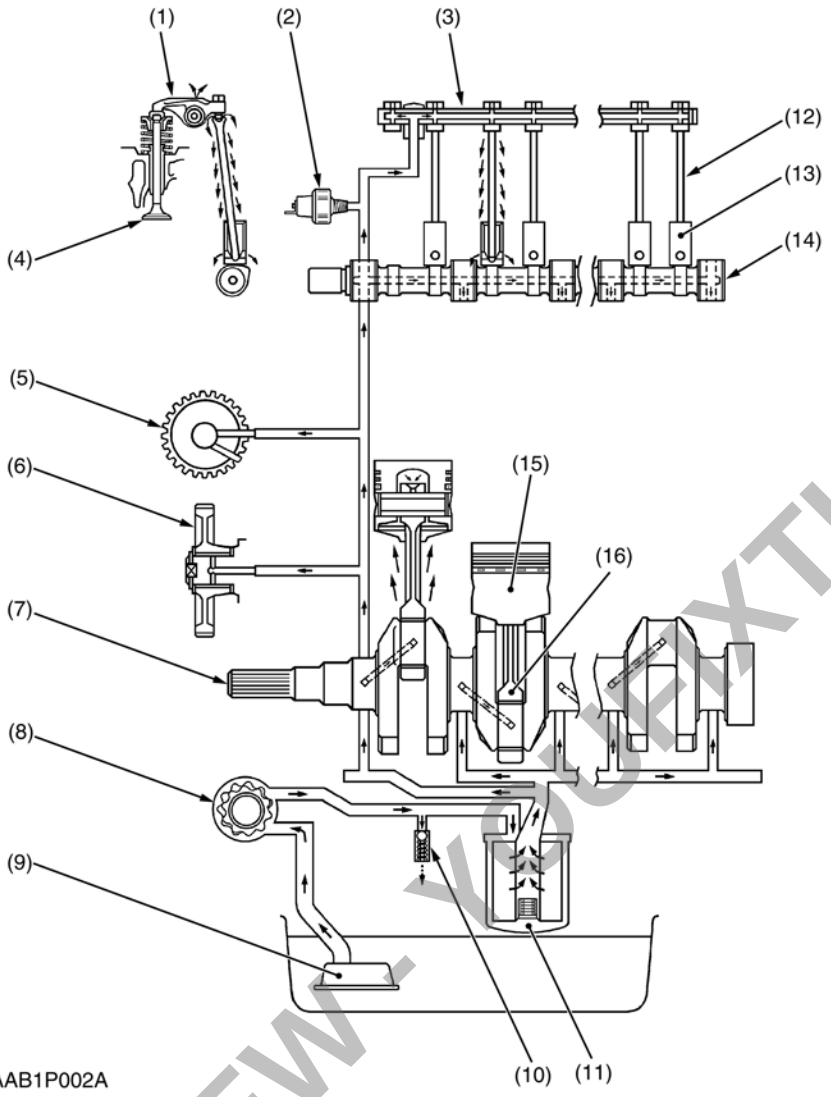
The HST is structured the variable displacement pump, fixed displacement motor, oil filter, charge relief valve, neutral valve, case relief valve etc.. The oil cooler is equipped on the drain circuit.

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1. LUBRICATING SYSTEM



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

A lubricating system consists of an oil strainer (9), oil pump (8), relief valve (10), oil filter cartridge (11) 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 oil filter cartridge where it is further filtered. Then the oil is forced to crankshaft (7), connecting rods (16), idle gear (6), governor shaft (5), camshaft (14) and rocker arm shaft (3) to lubricate each part through the oil gallery.

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3. TIGHTNING TORQUES

Tightening torques of screws, bolts and nuts on the table below are especially specified.
(For general use screws, bolts and nuts : See page G-9.)

Item	N·m	kgf·m	ft-lbs
Steering wheel mounting nut	48.1 to 55.9	4.9 to 5.7	35.4 to 41.2
Delivery hose RH retaining nut	24.5 to 29.4	2.5 to 3.0	18.1 to 21.7
Delivery hose LH retaining nut	24.5 to 29.4	2.5 to 3.0	18.1 to 21.7
Delivery hose retaining nut	34.3 to 44.1	3.5 to 4.5	25.3 to 32.5
Delivery hose joint screw	49.0 to 58.8	5.0 to 6.0	36.2 to 43.4
Bi-speed delivery pipe joint screw	34.3 to 39.2	3.5 to 4.0	25.3 to 28.9
Bi-speed delivery pipe retaining nut	29.4 to 49.0	3.0 to 5.0	21.7 to 36.2
Engine mounting screw, bolt and nut (M10)	48.1 to 55.9	4.9 to 5.7	35.5 to 41.2
Engine mounting nut (M12)	77.5 to 90.2	7.9 to 9.2	57.2 to 66.5
Clutch mounting screw	23.5 to 27.5	2.4 to 2.8	17.4 to 20.2
Cylinder head cover screw	6.9 to 11.3	0.7 to 1.15	5.1 to 8.32
*Cylinder head screw	93.1 to 98.0	9.5 to 10.0	68.7 to 72.3
*Main bearing case screw 1	46.1 to 50.9	4.7 to 5.2	34.0 to 37.6
*Main bearing case screw 2	68.6 to 73.5	7.0 to 7.5	50.6 to 54.2
*Flywheel screw	98.0 to 107.8	10.0 to 11.0	72.3 to 79.5
*Connecting rod screw	44.1 to 49.0	4.5 to 5.0	32.5 to 36.2
*Rocker arm bracket screw	23.5 to 27.5	2.4 to 2.8	17.4 to 20.3
*Idle gear shaft screw	23.5 to 27.5	2.4 to 2.8	17.4 to 20.3
Fan drive pulley mounting nut	137.3 to 156.9	14.0 to 16.0	101.3 to 115.7
*Bearing case cover mounting screw	23.5 to 27.5	2.4 to 2.8	17.4 to 20.3
Glow plugs	19.6 to 24.5	2.0 to 2.5	14.5 to 18.1
Nozzle holder assembly	49.0 to 68.6	5.0 to 7.0	36.2 to 50.6
Oil pressure switch	14.7 to 19.6	1.5 to 2.0	10.8 to 14.5
Injection pipe retaining nut	24.5 to 34.3	2.5 to 3.5	18.1 to 25.3
Overflow pipe assembly retaining nut	19.6 to 24.5	2.0 to 2.5	14.5 to 18.1
Camshaft set bolt	23.5 to 27.5	2.4 to 2.8	17.4 to 20.3
Hi-idling body	44.1 to 49.0	4.5 to 5.0	32.5 to 36.2

■ NOTE

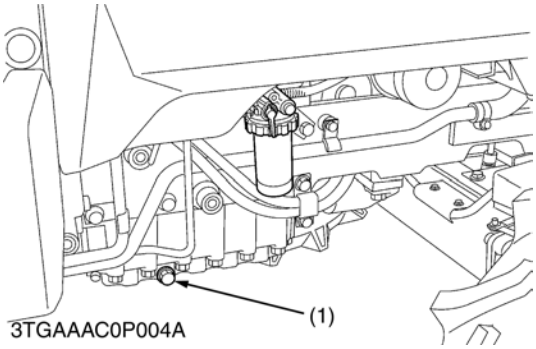
- **For "*" marked screws, bolts and nuts on the table, apply engine oil to their threads and seats before tightening.**
- **The letter "M" in Size x Pitch means that the screw, bolt or nut dimension stands for metric. The size is the nominal outside diameter in mm of the threads. The pitch is the nominal distance in mm between two threads.**

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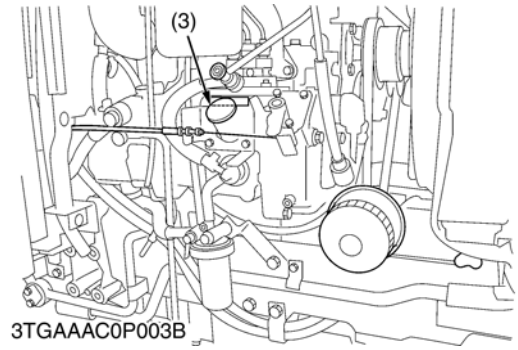
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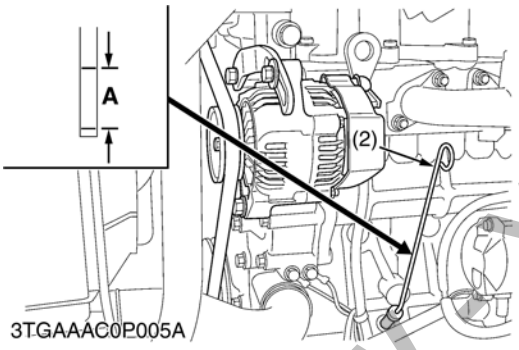
[2] CHECK POINTS OF INITIAL 50 HOURS



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3TGAAAC0P003B



3TGAAAC0P005A

Changing Engine Oil

CAUTION

- **Before changing oil, be sure to stop the engine.**

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 (2).

IMPORTANT

- **When using an oil of different manufacture or viscosity from the previous one, remove all of the old 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-8.)**

Engine oil	Capacity	6.7 L 7.1 U.S.qts 5.9 lmp.qts

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

(A) Oil level is acceptable within this range.

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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-33
	● Water in the fuel system	Change fuel and repair or replace fuel system	—
	● Fuel pipe clogged	Clean	—
	● Fuel filter clogged	Clean or change	G-22
	● 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
	● Fuel leak due to loose injection pipe retaining nut	Tighten retaining nut	1-S27
	● Incorrect injection timing	Adjust	1-S17
	● Fuel camshaft worn	Replace	1-S37
	● Injection nozzle clogged	Clean	1-S18
	● Injection pump malfunctioning	Replace	1-S31
	● Seizure of crankshaft, camshaft, piston, cylinder or bearing	Repair or replace	—
	● Compression leak from cylinder	Replace head gasket, tighten cylinder head screw, glow plug and nozzle holder	1-S11
	● Improper valve timing	Correct or replace timing gear	1-S36
	● Piston ring and cylinder worn	Replace	1-S55, S61
	● Excessive valve clearance	Adjust	1-S13
(Starter Does Not Run)	● Battery discharged	Charge	G-25, 26
	● Starter malfunctioning	Repair or replace	9-S16
	● Main switch malfunctioning	Repair or replace	9-S8
	● Safety switch (clutch pedal, HST) improperly adjusted or defective	Repair or replace	9-S16, 17
	● Starter relay defective	Replace	9-S17
	● PTO relay defective	Replace	9-S18
	● PTO clutch control switch engaged	Disengage	—
	● Fuse (30A, Starter) blown	Replace	G-34
	● Wiring disconnected	Connect	—

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SPECIFICATIONS

Model			STV32		STV36		STV40	
PTO power			17.7 kW (24.1 HP)*		20.2 kW (27.5 HP)*		22.8 kW (31.0 HP)	
Engine	Maker		KUBOTA					
	Model		D1503-M		D1703-M		D1803-M	
	Type		E-TVCS, water-cooled, 4-cycle diesel					
	Number of cylinders		3					
	Bore and stroke		83 x 92.4 mm (3.27 x 3.64 in.)		87 x 92.4 mm (3.43 x 3.64 in.)		87 x 102.4 mm (3.43 x 4.03 in.)	
	Total displacement		1499 cm^3 (91.5 cu.in.)		1647 cm^3 (100.5 cu.in.)		1826 cm^3 (111.4 cu.in.)	
	Engine gross power		24.1 kW (32.3 HP)*		26.8 kW (35.9 HP)*		29.5 kW (39.5 HP)*	
	Rated revolution		2700 rpm					
	Maximum torque		99.2 N·m (10.0 kgf·m)		108.3 N·m (10.9 kgf·m)		120.7 N·m (12.2 kgf·m)	
	Battery		12 V, RC : 123 min, CCA : 490 A					
	Starting system		Electric starting with cell starter 12 V, 1.4 kW					
	Lubricating system		Forced lubrication by trochoidal pump					
	Cooling system		Pressurized radiator, forced circulation with water pump					
	Fuel		Diesel fuel No. 2-D [above -10 ℃ (14 ℉)], Diesel fuel No. 1-D [below 10 ℃ (14 ℉)]					
Capacities	Fuel tank		29.5 L (7.79 U.S.gals, 6.49 Imp.gals)					
	Engine crankcase (with filter)		6.7 L (7.1 U.S.qts, 5.9 Imp.qts)					
	Engine coolant		6.1 L (6.4 U.S.qts, 5.4 Imp.qts)					
	Transmission case		22 L (5.81 U.S.gals, 4.84 Imp.gals)					
	Front axle case		4.0 L (4.2 U.S.qts, 3.5 Imp.qts)					
	Tires	Front	Farm: 6 - 12	Turf: 24 x 8.5 - 14	Farm: 6 - 12	Turf: 24 x 8.5 - 14	Farm: 6 - 12	Turf: 24 x 8.5 - 14
		Rear	9.5 - 22	13.6 - 16	9.5 - 22	13.6 - 16	9.5 - 22	13.6 - 16
Dimensions	Overall length (with 3P)		2860 mm (112.6 in.)					
	Overall width (min. tread)		1220 mm (48.0 in.)	1310 mm (51.6 in.)	1220 mm (48.0 in.)	1310 mm (51.6 in.)	1220 mm (48.0 in.)	1310 mm (51.6 in.)
	Overall height (with ROPS)		2350 mm (92.5 in.)	2340 mm (92.1 in.)	2350 mm (92.5 in.)	2340 mm (92.1 in.)	2350 mm (92.5 in.)	2340 mm (92.1 in.)
	Wheel base		1610 mm (63.4 in.)					
	Minimum ground clearance		235 mm (9.3 in.)	225 mm (18.9 in.)	235 mm (9.3 in.)	225 mm (18.9 in.)	235 mm (9.3 in.)	225 mm (18.9 in.)
	Tread	Front	1030 mm (40.6 in.)					
		Rear	950 mm (37.4 in.) 1070 mm (42.1 in.)	965 mm (38.0 in.) 1055 mm (41.5 in.)	950 mm (37.4 in.) 1070 mm (42.1 in.)	965 mm (38.0 in.) 1055 mm (41.5 in.)	950 mm (37.4 in.) 1070 mm (42.1 in.)	965 mm (38.0 in.) 1055 mm (41.5 in.)

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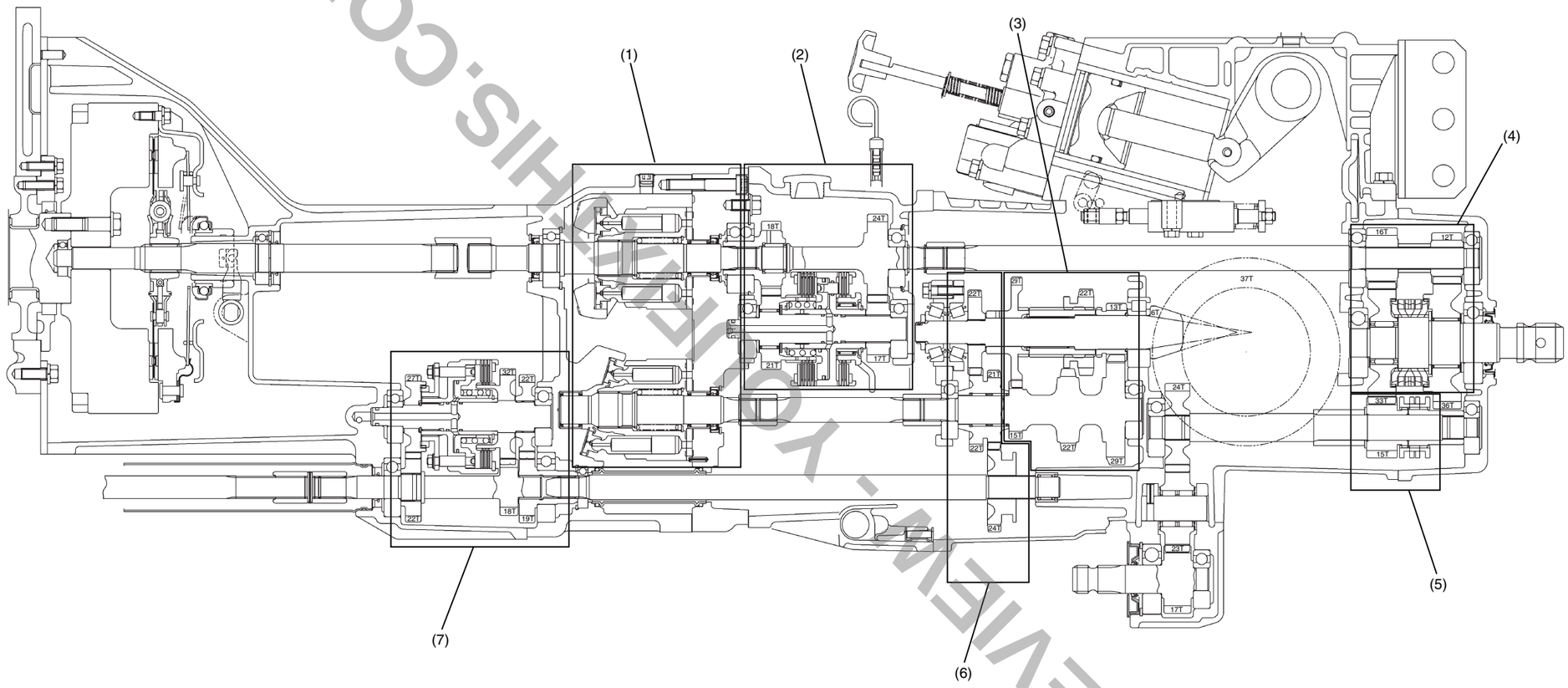
6. MAINTENANCE CHECK LIST

No.	Item \ Period		Indication on hour meter														After since	Reference page	
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
1	Greasing	-	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50Hr	G-18, 19	
2	Engine start system	Check	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50Hr	G-19	
3	Wheel bolt torque	Check	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50Hr	G-20	
4	Engine oil	Change	★	☆		☆		☆		☆		☆		☆		☆	every 100Hr	G-13	
5	Brake pedal	Adjust		☆		☆		☆		☆		☆		☆		☆	every 100Hr	G-23	
6	Fan belt	Adjust		☆		☆		☆		☆		☆		☆		☆	every 100Hr	G-23	
7	Clutch pedal	Adjust	★	☆		☆		☆		☆		☆		☆		☆	every 100Hr	G-17	
8	Battery condition	Check		☆		☆		☆		☆		☆		☆		☆	every 100Hr	G-25	*4
9	Air cleaner element [Single type]	Clean		☆		☆		☆		☆		☆		☆		☆	every 100Hr	G-21	*1
		Replace															every 1 year	G-21	
10	Air cleaner element [Double type] (Primary element)	Clean		☆		☆		☆		☆		☆		☆		☆	every 100Hr	G-21	*1
		Replace															every 1 year	G-21	*2
	Air cleaner element [Double type] (Scondary element)	Replace															every 1 year	G-21	
11	Fuel filter element	Clean		☆		☆		☆		☆		☆		☆		☆	every 100Hr	G-22	
		Replace								☆							every 400Hr	G-22	
12	Parking brake	Adjust		☆		☆		☆		☆		☆		☆		☆	every 100Hr	G-24	
13	Fuel line	Check		☆		☆		☆		☆		☆		☆		☆	every 100Hr	G-22	
		Replace															every 2 years	G-22	*3
14	Engine oil filter	Replace	★			☆				☆				☆			every 200Hr	G-14	
15	Hydraulic oil filter	Replace	★			☆				☆				☆			every 200Hr	G-16	
16	Hydraulicoil filter [HST]	Replace	★			☆				☆				☆			every 200Hr	G-16	
17	Toe-in	Adjust				☆				☆				☆			every 200Hr	G-29	

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1. STRUCTURE



3TGAAAC3P091A

(1) HST (Hydrostatic Transmission) Section (2) PTO Clutch Section (3) Range Gear Shift Section (4) Rear PTO Gear Shift Section (5) Mid PTO Gear Shift Section (6) Front Wheel Drive Section (7) Bi-speed Turn Clutch Section

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2. SERVICING SPECIFICATIONS

ENGINE BODY

Item		Factory Specification	Allowable Limit
Cylinder Head Surface	Flatness	—	0.05 mm / 500 mm 0.0020 in. / 19.69 in.
Compression Pressure (When Cranking with Starting Motor)	—	3.53 to 4.02 MPa / 290 min^{-1} (rpm) 36 to 41 kgf/cm^2 / 290 min^{-1} (rpm) 512 to 583 psi / 290 min^{-1} (rpm)	2.55 MPa / 290 min^{-1} (rpm) 26 kgf/cm^2 / 290 min^{-1} (rpm) 370 psi / 290 min^{-1} (rpm)
	Difference among Cylinders	—	10 % or less
Top Clearance		0.55 to 0.70 mm 0.0217 to 0.0276 in.	—
Valve Clearance (When Cold)		0.18 to 0.22 mm 0.0071 to 0.0087 in.	—
Valve Seat	Width (Intake)	2.12 mm 0.0835 in.	—
	Width (Exhaust)	2.12 mm 0.0835 in.	—
Valve Seat	Angle (Intake)	1.047 rad 60 °	—
	Angle (Exhaust)	0.785 rad 45 °	—
Valve Face	Angle (Intake)	1.047 rad 60 °	—
	Angle (Exhaust)	0.785 rad 45 °	—
Valve Stem to Valve Guide	Clearance	0.040 to 0.070 mm 0.00157 to 0.00276 in.	0.1 mm 0.0039 in.
	Valve Stem (O.D.)	7.960 to 7.975 mm 0.31339 to 0.31398 in.	—
	Valve Guide (I.D.)	8.015 to 8.030 mm 0.31555 to 0.31614 in.	—
Valve Recessing	Protrusion	0.05 mm 0.0020 in.	—
	Recessing	0.15 mm 0.0059 in.	0.4 mm 0.0157 in.

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4. LUBRICANTS, FUEL AND COOLANT

	Place	Capacity	Lubricants, fuel and coolant
1	Fuel tank	29.5 L 7.79 U.S.gals. 6.49 Imp.gals.	No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10 °C (14 °F)
2	Coolant (with reserve tank)	6.1 L 6.4 U.S.qts. 5.4 Imp.qts.	Fresh clean water with anti-freeze
3	Engine crankcase (with filter)	6.7 L 7.1 U.S.qts. 5.9 Imp.qts.	Engine oil: API service CC or CD class 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	22 L 5.81 U.S.qts. 4.84 Imp.qts.	KUBOTA SUPER UDT fluid*
5	Front differential case oil	4.0 L 4.2 U.S.qts. 3.5 Imp.qts.	KUBOTA SUPER UDT fluid or SAE80, 90 gear oil

Grease

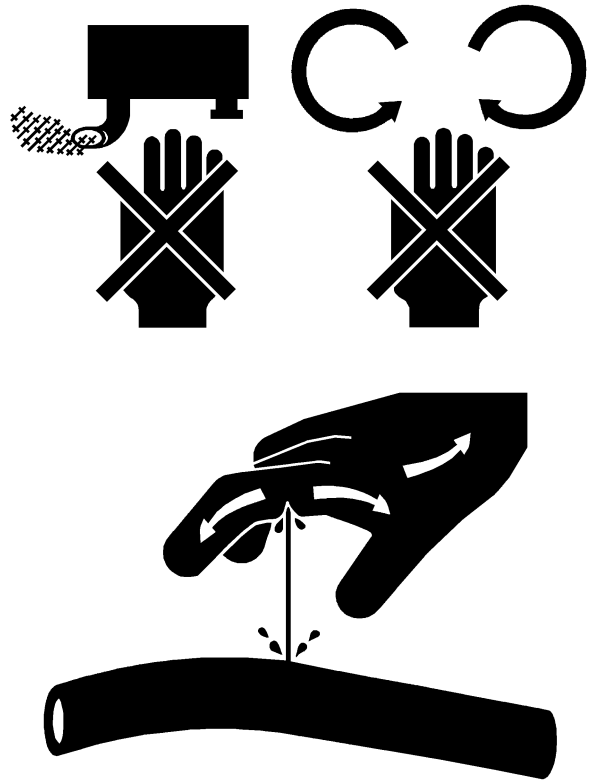
	Place	No. of greasing point	Capacity	Type of grease
6	Brake pedal shaft	1	Until grease overflows	Multipurpose type grease
	Clutch pedal shaft	1		
	Top link	2		
	Lift rod	1		
	Battery terminal	2	Moderate amount	
	Cruise control lever	2		
	Speed control wire	Oiling		Engine oil

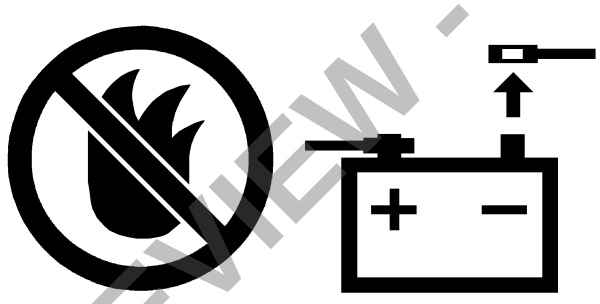
*KUBOTA original transmission hydraulic fluid.

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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.

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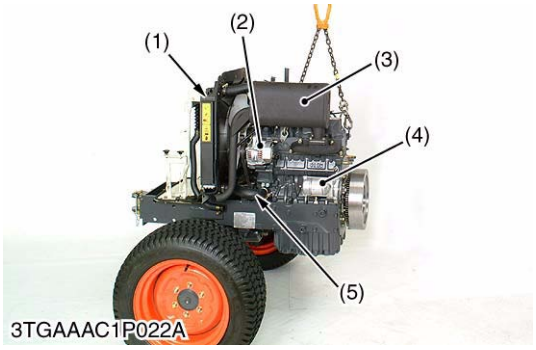
AVOID FIRES

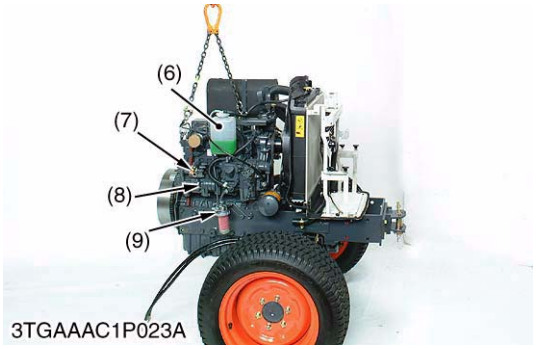
- Fuel is extremely flammable and explosive under certain conditions. Do not smoke or allow flames or sparks in your working area.
- To avoid sparks from an accidental short circuit, always disconnect the battery negative cable first and connect it last.
- Battery gas can explode. Keep sparks and open 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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Separating Front Axle Assembly and Outer Parts

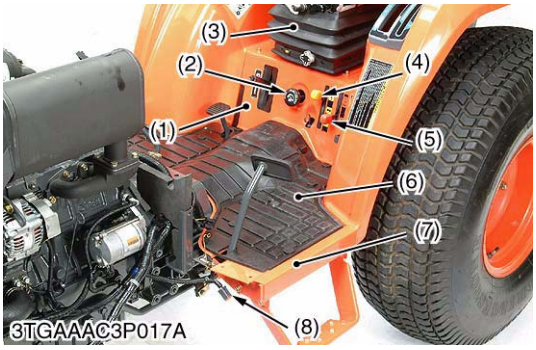
1. Disconnect the radiator hoses (1), (5).
2. Remove the muffler (3).
3. Remove the recovery tank (6).
4. Remove the starter motor (4) and alternator (2).
5. Remove the fuel filter (9).
6. Remove the regulator valve (7) and hydraulic pump (8).
7. Remove the engine mounting screws and separate the front axle assembly from engine.

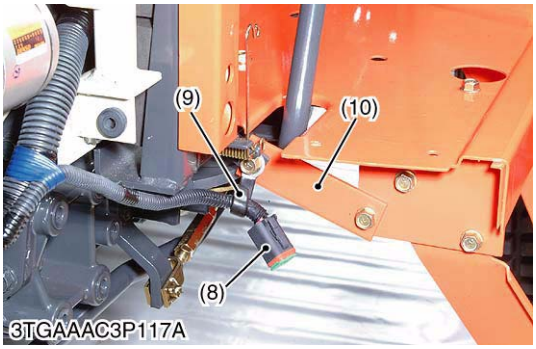
(1) Radiator Hose
(2) Alternator
(3) Muffler
(4) Starter Motor
(5) Radiator Hose
(6) Recovery Tank
(7) Regulator Valve
(8) Hydraulic Pump
(9) Fuel Filter

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Seat, Seat Under Cover and Step

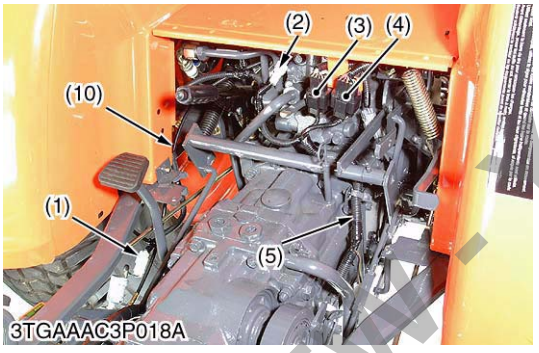
1. Remove the seat (3).
2. Remove the step mat (6).
3. Remove the grips of the mid PTO lever (4) and front wheel drive lever (5).
4. Remove the lowering speed adjusting knob (2).
5. Remove the seat under cover (1).
6. Loosen the clamp (9) for the cabin coupler (8).
7. Remove the stay (10).
8. Remove the step (7).

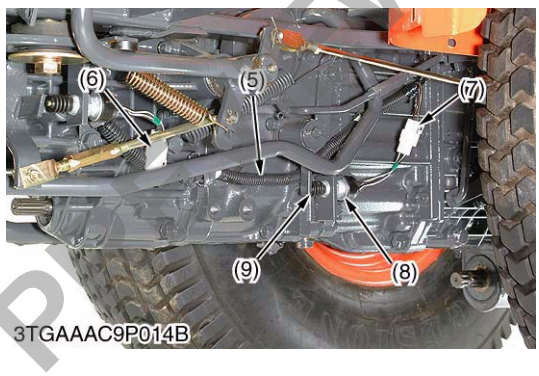
(When reassembling)

- Do not confuse the grips.
  - Grip (yellow) for the mid PTO lever.
  - Grip (red) for the front wheel drive lever.
- Be sure to fix the cabin coupler (8) with the clamp (9).

(1)	Seat Under Cover	(6)	Step Mat
(2)	Lowering Speed Adjusting Knob	(7)	Step
		(8)	Cabin Coupler
(3)	Seat	(9)	Clamp
(4)	Mid PTO Lever	(10)	Stay
(5)	Front Wheel Driver Lever		

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Wiring Harness

1. Disconnect the brake switch connector (1) and parking brake switch connector (2).
2. Disconnect the rear harness connectors (3) (4).
3. Disconnect the safety switch connectors (6) (7).
4. Loosen the clamp and move the main harness (5) to the engine side.

■ **NOTE**

- **Pass the main harness (5) between the neutral lever (9) and safety switch (8) while engaging the cruise control lever.**

(When reassembling)

- Note that the main harness (5) does not interfere in the rod and the lever.
- Clamp the wiring harness for the brake switch to the cruise control release wire (10).

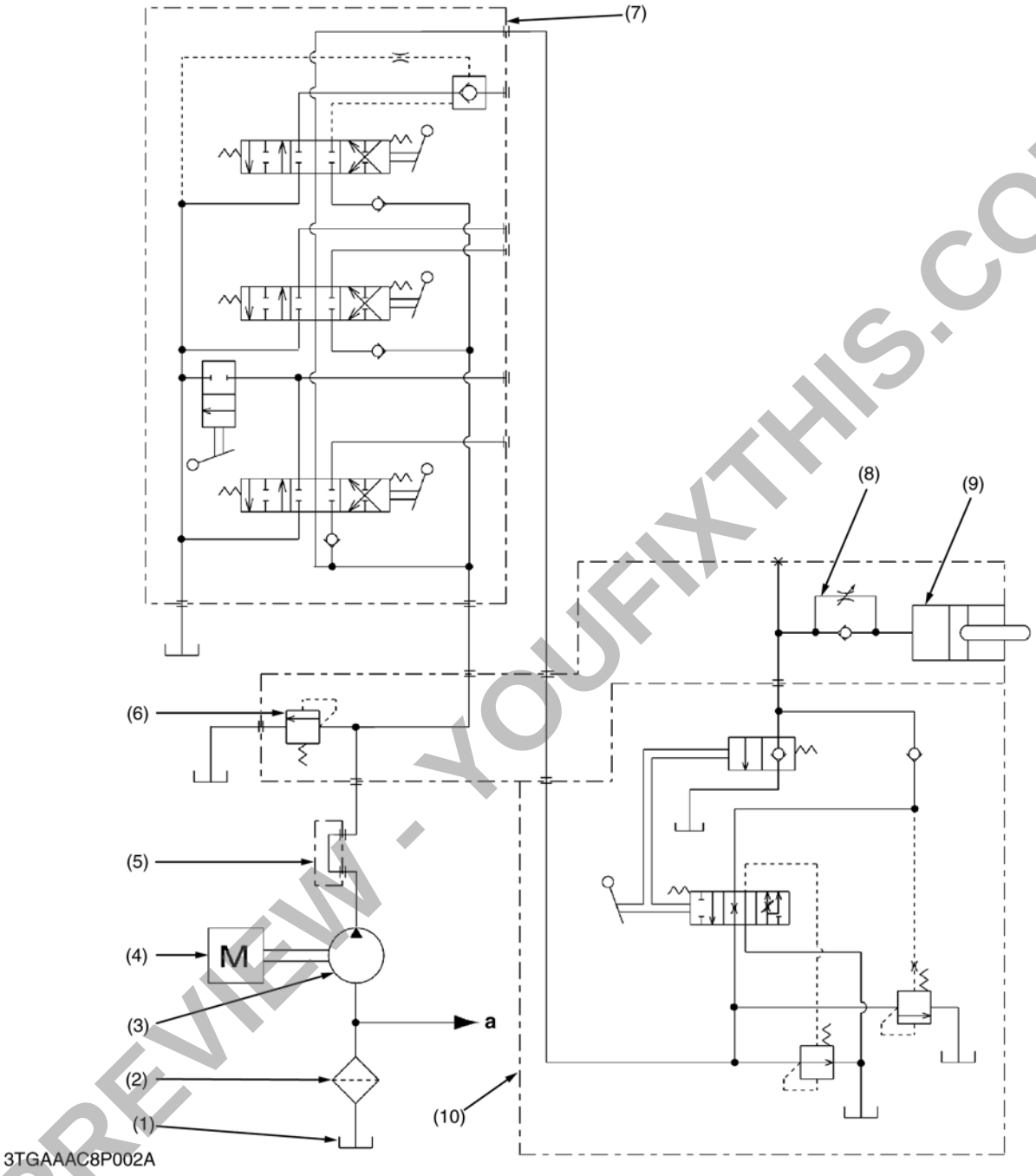
(1)	Brake Switch Connector	(6)	Safety Switch Connector (Clutch Pedal)
(2)	Parking Brake Switch Connector	(7)	Safety Switch Connector (HST)
(3)	Rear Harness Connector	(8)	Safety Switch (HST)
(4)	Rear Harness Connector	(9)	Neutral Lever
(5)	Main Harness	(10)	Cruise Control Release Wire

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2. WHOLE HYDRAULIC CIRCUIT



(1) Transmission case
(2) Oil Filter
(3) Hydraulic Pump (3P System)
(4) Engine
(5) Hydraulic Block Type Outlet
(6) Relief Valve
(7) Auxiliary Control Valve
(8) Lowering Speed Adjusting Valve
(9) Hydraulic Cylinder
(10) Position Control Valve

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