WSM

WORKSHOP MANUAL

G23,G26

Kubota

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

KiSC issued 08, 2009 A

GENERAL

CONTENTS

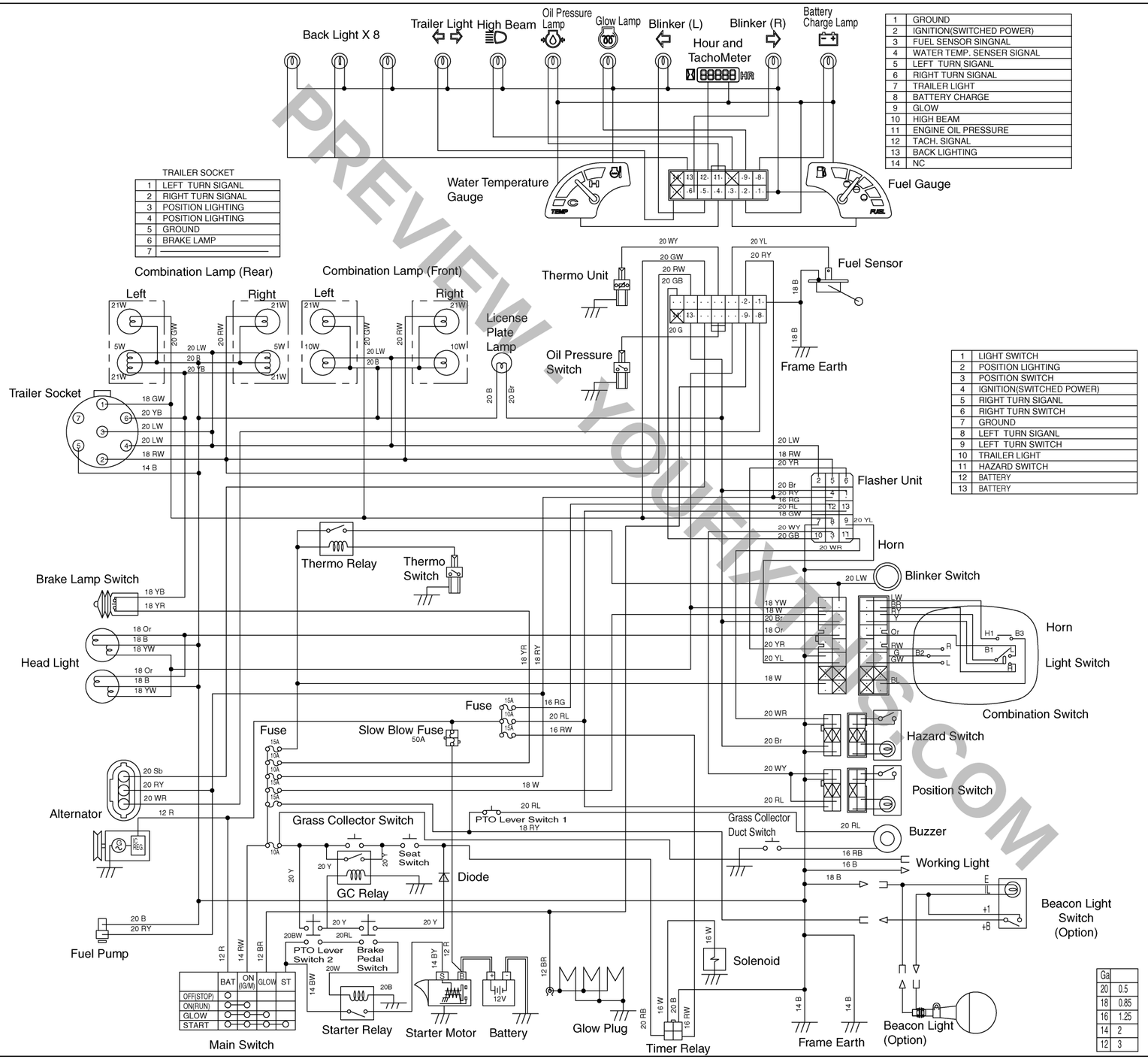
1. TRACTOR IDENTIFICATION G-1
   [1] SERIAL NUMBER G-1
   [2] CYLINDER NUMBER G-2
2. GENERAL PRECAUTIONS G-3
3. HANDLING PRECAUTIONS FOR ELECTRICAL PARTS AND WIRING G-4
   [1] WIRING G-4
   [2] BATTERY G-6
   [3] FUSE G-6
   [4] CONNECTOR G-6
   [5] HANDLING OF CIRCUIT TESTER G-7
   [6] COLOR OF WIRING G-8
4. LUBRICANTS, FUEL AND COOLANT G-9
5. TIGHTENING TORQUES G-12
   [1] GENERAL USE SCREWS, BOLTS AND NUTS G-12
   [2] STUD BOLTS G-12
   [3] AMERICAN STANDARD SCREWS, BOLTS AND NUTS WITH UNC OR UNF THREADS G-13
   [4] PLUGS G-13
6. MAINTENANCE CHECK LIST G-14
7. CHECK AND MAINTENANCE G-16
   [1] DAILY CHECK G-16
      (1) Walking Around the Machine G-16
      (2) Mower G-19
      (3) While Sitting on the Operator's Seat G-19
      (4) Turning the Key Switch "ON" G-19
      (5) Starting the Engine G-19
      (6) Others G-20
   [2] CHECK POINTS OF INITIAL 50 HOURS G-20
   [3] CHECK POINTS OF EVERY 50 HOURS G-22
   [4] CHECK POINTS OF EVERY 100 HOURS G-37
   [5] CHECK POINT OF EVERY 150 HOURS G-38
   [6] CHECK POINTS OF EVERY 200 HOURS G-39
   [7] CHECK POINTS OF EVERY 400 HOURS G-44
   [8] CHECK POINT OF EVERY 1500 HOURS G-45
   [9] CHECK POINT OF EVERY 3000 HOURS G-45
   [10] CHECK POINT OF EVERY 1 YEAR G-45
   [11] CHECK POINTS OF EVERY 2 YEARS G-45
   [12] OTHERS G-49
8. SPECIAL TOOLS G-54
   [1] SPECIAL TOOLS FOR ENGINE G-54
   [2] SPECIAL TOOLS FOR TRACTOR G-59
9. TYRE PRESSURE AND WHEEL G-61
   [1] TYRE PRESSURE G-61
   [2] WHEEL G-61
10. IMPLEMENT LIMITATIONS G-62

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

1. WIRING DIAGRAM

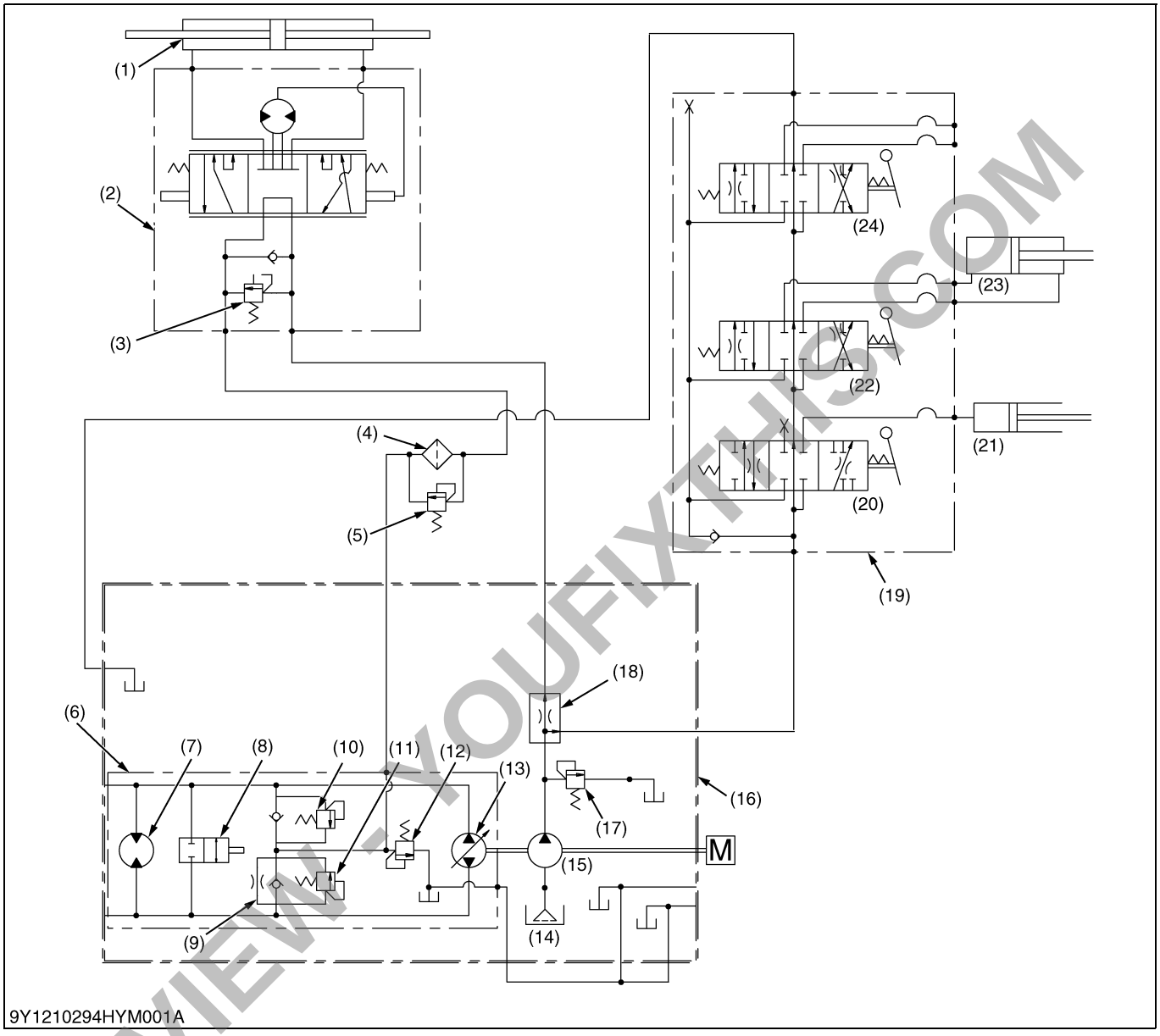
[1] G23



PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

1. HYDRAULIC CIRCUIT

[1] G23 (MECHANICAL PTO, LD MODEL)



(1) Power Steering Cylinder
(2) Power Steering Controller
(3) Relief Valve (Power Steering)
(4) Oil Filter
(5) Relief Valve (Oil Filter)
(6) HST (Hydrostatic Transmission)
(7) HST Motor
(8) By-pass Valve
(9) Orifice
(10) Check and High Pressure Relief Valve (Forward)
(11) Check and High Pressure Relief Valve (Reverse)
(12) Charge Valve
(13) HST Pump
(14) Oil Strainer
(15) Hydraulic Pump
(16) Transmission Case
(17) Relief Valve (Main)
(18) Flow Priority Valve
(19) Hydraulic Control Valve
(20) Mower Lift Control Valve (Spool)
(21) Mower Lift Cylinder
(22) Grass Collector Dump Control Valve (Spool)
(23) Grass Collector Dump Cylinder
(24) Grass Collector Lift Control Valve (Spool)

The hydraulic system of this machine is composed of the hydraulic pump, the hydraulic control valve for the mower and the grass collector, the power steering and other components.

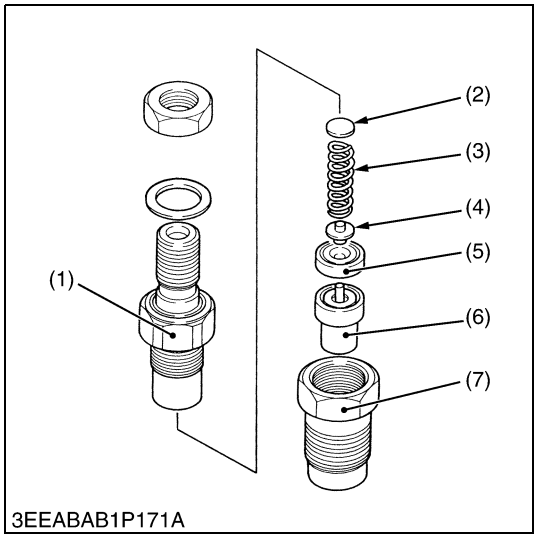
This system has the following functions :

1. Oil is supplied by the hydraulic pump which is driven by the HST pump shaft and the idle gear in the transmission case.
   Since the hydraulic pump drive shaft is connected to the propeller shaft, the HST pump shaft and the idle gear runs while the engine is rotating.
2. The hydraulic pump supplies the high pressured oil to the hydraulic control valve for the mower, the grass collector and other hydraulic component parts as shown in the hydraulic circuit above after dividing the hydraulic oil by the flow priority valve.

9Y1210294HYM0001US0

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com



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.

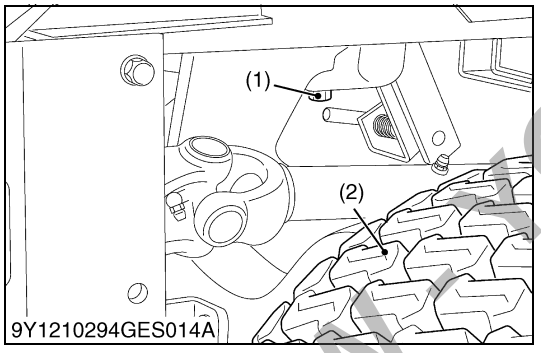
Tightening torque	Nozzle holder	35 to 39 N·m 3.5 to 4.0 kgf·m 26 to 28 lbf·ft
	Overflow pipe nut	20 to 24 N·m 2.0 to 2.50 kgf·m 15 to 18 lbf·ft
	Nozzle holder assembly	49 to 68 N·m 5.0 to 7.0 kgf·m 37 to 50 lbf·ft

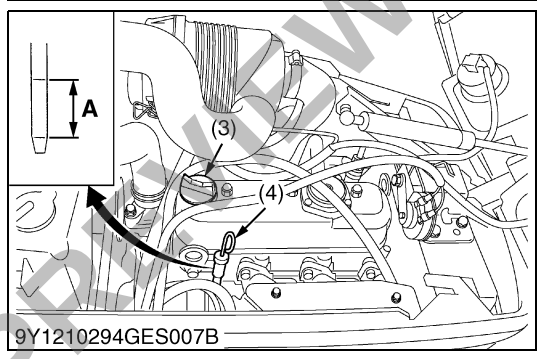
(1) Nozzle Holder
(2) Adjusting Washer
(3) Nozzle Spring
(4) Push Rod
(5) Distance Piece
(6) Nozzle Piece
(7) Nozzle Retaining Nut

9Y1210272ENS0028US0

[2] DISASSEMBLING AND ASSEMBLING

(1) Separating Engine





Draining Engine Oil

1. Start and warm up the engine for approx. 5 minutes.
2. Place an oil pan underneath the engine.
3. Remove the drain plug (1) to drain oil.
4. After draining, screw in the drain plug (1).

(When refilling)

- Fill with the new oil up to the upper line on the dipstick (4).

■ **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-9).**

Engine oil capacity	Capacity	G23	3.1 L 3.3 U.S.qts 2.7 Imp.qts
		G26	3.5 L 3.7 U.S.qts 3.1 Imp.qts

(1) Drain Plug
(2) Front Tyre
(3) Oil Inlet
(4) Dipstick

A : Oil level is acceptable within this range

9Y1210294ENS0018US0

PREVIEW.YOUFIXTHIS.COM

Download full manual at youfixthis.com

3. TIGHTENING 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-12)

[Tractor Section]

Item	N·m	kgf·m	lbf·ft
Front coupling mounting bolt	24 to 27	2.4 to 2.8	18 to 20
Engine mounting nut	24 to 27	2.4 to 2.8	18 to 20
Cushion mounting nut	24 to 27	2.4 to 2.8	18 to 20
Engine support mounting screw	52.8 to 55.9	5.4 to 5.7	38.9 to 41.2
Drive pulley mounting bolt	52.8 to 55.9	5.4 to 5.7	38.9 to 41.2

[Engine Section]

Item	Dimension × Pitch	N·m	kgf·m	lbf·ft
Cylinder head cover screw	M7 × 1.0	7 to 8	0.7 to 0.9	5 to 6
Cylinder head screw	M10 × 1.25	64 to 68	6.5 to 7.0	47 to 50
*Main bearing case screw 1	M8 × 1.25	30 to 34	3.0 to 3.5	22 to 25
*Main bearing case screw 2	M9 × 1.25	49 to 53	5.0 to 5.5	37 to 39
*Flywheel screw	M10 × 1.25	54 to 58	5.5 to 6.0	40 to 43
*Connecting rod screw	M8 × 1.0	42 to 46	4.2 to 4.7	31 to 33
*Rocker arm bracket nut	M7 × 1.0	22 to 26	2.2 to 2.7	16 to 19
*Idle gear shaft mounting screw	M6 × 1.0	9.81 to 11.2	1.00 to 1.15	7.24 to 8.31
*Fan drive pulley screw	M14 × 1.5	236 to 245	24.0 to 25.0	174 to 180
Bearing case cover mounting screw	M6 × 1.0	9.81 to 11.2	1.00 to 1.15	7.24 to 8.31
Glow plug	M8 × 1.0	7.9 to 14	0.80 to 1.5	5.8 to 10
Nozzle holder assembly	M20 × 1.5	49 to 68	5.0 to 7.0	37 to 50
Nozzle holder	–	35 to 39	3.5 to 4.0	26 to 28
Oil pressure switch	PT 1/8	15 to 19	1.5 to 2.0	11 to 14
Injection pipe retaining nut	M12 × 1.5	25 to 34	2.5 to 3.5	18 to 25
Overflow pipe retaining nut	M12 × 1.5	20 to 24	2.0 to 2.5	15 to 18
Drain plug with copper gasket	M12 × 1.25	33 to 37	3.3 to 3.8	24 to 27
Drain plug with rubber coated gasket	M22 × 1.5	45 to 53	4.5 to 5.5	33 to 39
Oil filter joint	–	40 to 49	4.0 to 5.0	29 to 36

■ **NOTE**

- **In removing and applying the bolts and nuts marked with "*", a pneumatic wrench or similar pneumatic tool, if employed, must be used with enough care not to get them seized.**
- **For "*" marked screws, bolts and nuts on the table, apply engine oil to their threads and seats before tightening.**
- **The letter "M" in Size × 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.**

9Y1210294ENS0004US0

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

1. TROUBLESHOOTING

Symptom	Probable Cause	Solution	Reference Page
Engine Does Not Start	No fuel	Replenish fuel	G-17
	Air in the fuel system	Bleed	G-49
	Water in the fuel system	Change fuel and repair or replace fuel system	–
	Fuel hose clogged	Clean	G-38
	Fuel filter clogged	Change	G-38
	Excessively high viscosity of fuel or engine oil at low temperature	Use specified fuel or engine oil	G-9
	Fuel with low cetane number	Use the specified fuel	G-9
	Fuel leak due to loose injection pipe retaining nut	Tighten retaining nut	1-S31
	Incorrect injection timing	Adjust	1-S20
	Fuel camshaft worn	Replace	1-S37
	Injection nozzle clogged	Clean or replace	1-S31
	Injection pump malfunctioning	Replace	1-S36
	Seizure of crankshaft, camshaft, piston, cylinder or bearing	Repair or replace	1-S37
	Compression leak from cylinder	Replace head gasket, tighten cylinder head screw, glow plug and nozzle holder	1-S32
	Improper valve timing	Correct or replace timing gear	1-S37
	Piston ring and cylinder worn	Replace	1-S39
	Excessive valve clearance	Adjust	1-S16
Starter Does Not Run	Battery discharged	Charge	G-34
	Starter malfunctioning	Repair or replace	6-S25
	Main switch malfunctioning	Repair or replace	6-S8, 6-S9
	Safety switches improperly adjusted or defective	Adjust or replace	6-S11
	Wiring disconnected	Connect	–
	Ground cable disconnected	Connect	–
Engine Revolution Is Not Smooth	Fuel filter clogged or dirty	Replace	G-45
	Air cleaner clogged	Clean or replace	G-32
	Fuel leak due to loose injection pipe retaining nut	Tighten retaining nut	1-S31
	Injection pump malfunctioning	Replace	1-S36
	Incorrect nozzle injection pressure	Adjust	1-S22
	Injection nozzle stuck or clogged	Repair or replace	1-S31
	Governor malfunctioning	Repair	1-S37
Either White or Blue Exhaust Gas Is Observed	Excessive engine oil	Reduce to the specified level	G-16
	Piston ring and cylinder worn or stuck	Repair or replace	1-S39
	Incorrect injection timing	Adjust	1-S20
	Deficient compression	Check	1-S15

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

3. SPECIFICATIONS

Model			G23		G26	
			LD	HD	LD	HD
Maximum gross power			17.1 kW (23.3 HP)		18.8 kW (25.5 HP)	
Engine	Model		D902-E3-GT		D1005-E3-GT	
	Type		Indirect injection, vertical, water cooled, 4-cycle diesel engine			
	Number of cylinders		3			
	Bore and stroke		72 × 73.6 mm (2.83 × 2.90 in.)		76 × 73.6 mm (2.99 × 2.90 in.)	
	Total displacement		898 cm^3 (54.8 cu.in.)		1001 cm^3 (61.1 cu.in.)	
	Rated revolution		3200 min^{-1} (rpm)			
	Combustion chamber		Spherical type (E-TVCS)			
	Fuel injection pump		Bosch MD type mini pump			
	Governor		Centrifugal ball mechanical governor			
	Injection nozzle		Bosch throttle type			
	Injection timing		0.28 to 0.31 rad (16 ° to 18 °) before T.D.C.			
	Injection order		1-2-3			
	Injection pressure		13.73 MPa (140 kgf/cm^2, 1991 psi)			
	Compression ratio		24 : 1			
	Lubricating system		Forced lubrication by gear pump			
	Cooling system		Pressurized radiator, forced circulation with water pump			
	Lubricating oil		API Service Classification CD, CE or CF Below 0 °C (32 °F) : SAE10W, SAE10W-30 or 15W-40 0 to 25 °C (32 to 77 °F) : SAE20, SAE10W-30 or 15W-40 Above 25 °C (77 °F) : SAE30, SAE10W-30 or 15W-40			
	Starting system		Electric starter (12 V, 1.0 kW)			
	Battery		51R (12V, 450CCA)			
	Fuel		No.2-D diesel fuel (ASTM D975) [No.1-D diesel fuel, if temperature is below – 10 °C (14 °F)]			
Capacities	Fuel tank		20.5 L (5.4 U.S.gals, 4.5 Imp.gals)			
	Engine crankcase		3.1 L (3.3 U.S.qts, 2.7 Imp.qts)		3.5 L (3.7 U.S.qts, 3.1 Imp.qts)	
	Engine coolant (with recovery tank)		3.1 L (3.3 U.S.qts, 2.7 Imp.qts)		3.3 L (3.5 U.S.qts, 2.9 Imp.qts)	
	Transmission case		11.0 L (11.6 U.S.qts, 9.7 Imp.qts)			
	Mower gear case oil		1.9 L (2.0 U.S.qts, 1.7 Imp.qts)		2.1 L (2.2 U.S.qts, 1.8 Imp.qts)	
Tyres	Front		16 × 7.50-8 (4PR) Turf			
	Rear		24 × 12.00-12 (4PR) Turf			
Traveling speeds	Forward		0 to 15.5 km/h (0 to 9.6 mph)		0 to 17.0 km/h (0 to 10.6 mph)	
	Reverse		0 to 10.0 km/h (0 to 6.2 mph)			
Dimensions	Overall length (with grass collector), without front weight bracket for HD		2980 mm (117.3 in.)	3160 mm (124.4 in.)	3035 mm (119.5 in.)	3215 mm (126.6 in.)
	Overall width (with mower)		1226 mm (48.3 in.)		1418 mm (55.9 in.)	
	Overall height		1350 mm (53.1 in.)	1600 mm (63.0 in.)	1350 mm (53.1 in.)	1600 mm (63.0 in.)
	Wheel base		1390 mm (54.7 in.)		1460 mm (57.5 in.)	
	Tread	Front	900 mm (35.4 in.)			
		Rear	840 mm (33.1 in.)			
Weight (Without mower deck and grass collector)			535 kg (1180 lbs)	500 kg (1103 lbs)	565 kg (1246 lbs)	535 kg (1180 lbs)
PTO			Shaft drive			
PTO clutch			Belt tension		Wet disks	
Revolution (PTO speed)			2600 min^{-1} (rpm)			
PTO brake			Shoe		Wet disks	
Steering			Hydrostatic type power steering			
Transmission			Hydrostatic transmission			
Brake			Wet disks			

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

4. LUBRICANTS, FUEL AND COOLANT

No.	Place	Capacities				Lubricants
		G23		G26		
		LD	HD	LD	HD	
1	Fuel	20.5 L 5.4 U.S.gals 4.5 Imp.gals				• No. 2-D diesel fuel • No. 1-D diesel fuel if temperature is below –10 °C (14 °F)
2	Coolant (with recovery tank)	3.1 L 3.3 U.S.qts 2.7 Imp.qts		3.3 L 3.5 U.S.qts 2.9 Imp.qts		Fresh clean water with anti-freeze
3	Engine crankcase	3.1 L* 3.3 U.S.qts 2.7 Imp.qts		3.5 L* 3.7 U.S.qts 3.1 Imp.qts		**Engine oil** API Service Classification CD, CE or CF • Above 25 °C (77 °F) SAE30W, SAE10W-30 or 15W-40 • 0 to 25 °C (32 to 77 °F) SAE20, SAE10W-30 or 15W-40 • Below 0 °C (32 °F) SAE10W, SAE10W-30 or 15W-40
4	Transmission case	11.0 L 11.6 U.S.qts 9.7 Imp.qts				KUBOTA UDT or SUPER UDT fluid*
5	Mower gear box	1.9 L 2.0 U.S.qts 1.7 Imp.qts		2.1 L 2.2 U.S.qts 1.8 Imp.qts		KUBOTA UDT or SUPER UDT fluid*

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

6. MAINTENANCE CHECK LIST

No.	Item		Indication on hour meter												After since	Reference page	Important	
			50	100	150	200	250	300	350	400	450	500	550	600				
1	Engine oil	Change	★			☆				☆				☆	every 200 Hr	G-20		
2	Engine oil filter	Replace	★			☆				☆				☆	every 200 Hr	G-20		
3	Transmission fluid	Change								☆					every 400 Hr	G-44		
4	Transmission oil filter	Replace	★			☆				☆				☆	every 200 Hr	G-21		
5	Transmission strainer	Clean								☆					every 400 Hr	G-44		
6	Front axle pivot	Adjust				☆				☆				☆	every 200 Hr	G-40		
7	Safety device	Check	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50 Hr	G-22		
8	Oiling	–	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50 Hr	G-23		
9	Greasing	–	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50 Hr	G-24		
10	Mower gear box oil	Check	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50 Hr	G-31		
		Change	★		☆			☆			☆			☆	every 150 Hr	G-38		
11	Air cleaner element	Clean	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50 Hr	G-32	*1	@
		Replace													every 1 year	G-45		
12	Battery condition	Check	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50 Hr	G-33		
13	Battery charging	Check	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50 Hr	G-34		
14	Front PTO belt tension	Adjust	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50 Hr	G-36	*3	
15	Brake	Adjust		☆		☆		☆		☆		☆		☆	every 100 Hr	G-37		
16	Fan drive belt	Check		☆		☆		☆		☆		☆		☆	every 100 Hr	G-37		
17	HST neutral spring	Adjust		☆		☆		☆		☆		☆		☆	every 100 Hr	G-37		
18	Fuel filter element	Check		☆		☆		☆		☆		☆		☆	every 100 Hr	G-38		@
		Replace								☆					every 400 Hr	G-45		
19	Fuel line	Check		☆		☆		☆		☆		☆		☆	every 100 Hr	G-38		@
		Replace													every 2 years	G-45		
20	Hydraulic hose	Check				☆				☆				☆	every 200 Hr	G-41		
		Replace													every 2 years	G-45		
21	Radiator hose and clamp	Check				☆				☆				☆	every 200 Hr	G-43		
		Replace													every 2 years	G-45		
22	Intake air line	Check				☆				☆				☆	every 200 Hr	G-43		@
		Replace													every 2 years	G-46	*2	
23	Fuel injection nozzle (injection pressure)	Check													every 1500 Hr	1-S22		@

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

7. CHECK AND MAINTENANCE

CAUTION
- **Be sure to check and service the machine on a level surface with the engine shut off and the parking brake "ON" and implement lowered to the ground.**

9Y1210294GEG0005US0

[1] DAILY CHECK

To prevent trouble from occurring, it is important to know the condition of the machine. Check it before starting.

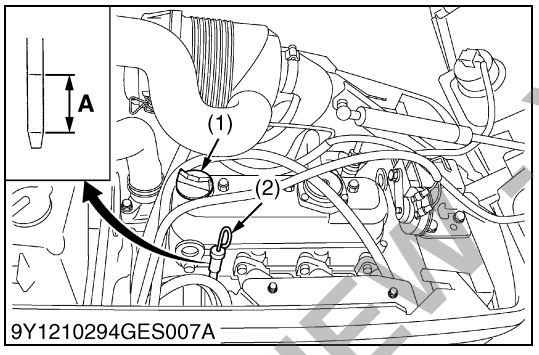
CAUTION
To avoid personal injury :
- **Be sure to check and service the machine on a level surface with the engine shut off, the ley removed and the parking brake securely set.**

9Y1210294GEG0006US0

(1) Walking Around the Machine

1. Tyre pressure, wear and damage.
2. Oil and water leak.
3. Engine oil level.
4. Transmission fluid level.
5. Coolant level in the recovery tank.
6. Damage of machine body, tightness of all bolts and nuts.
7. Radiator screen.
8. Panel screen.
9. Brake free travel.
10. Fuel level.
11. Check air cleaner.

9Y1210294GEG0007US0



9Y1210294GES007A

Checking Engine Oil Level

CAUTION
To avoid personal injury :
- **Be sure to stop the engine before checking the oil level.**

1. Park the machine on a flat surface.
2. Check engine oil before starting the engine or 5 minutes or more after the engine has stopped.
3. To check the oil level, draw out the dipstick, wipe it clean, replace it, and draw it out again. Check to see that the oil level lines between the two notches.
   If the level is too low, add new oil to the prescribed level at the oil inlet. (Refer to "LUBRICANTS, FUEL AND COOLANT" in this section.)

■ **IMPORTANT**
- **When using an oil of different maker or viscosity from the previous one, remove all of the old oil and oil filter. Never mix two different types of oil.**
- **If oil level is low, do not run the engine.**

(1) Oil Inlet
(2) Dipstick

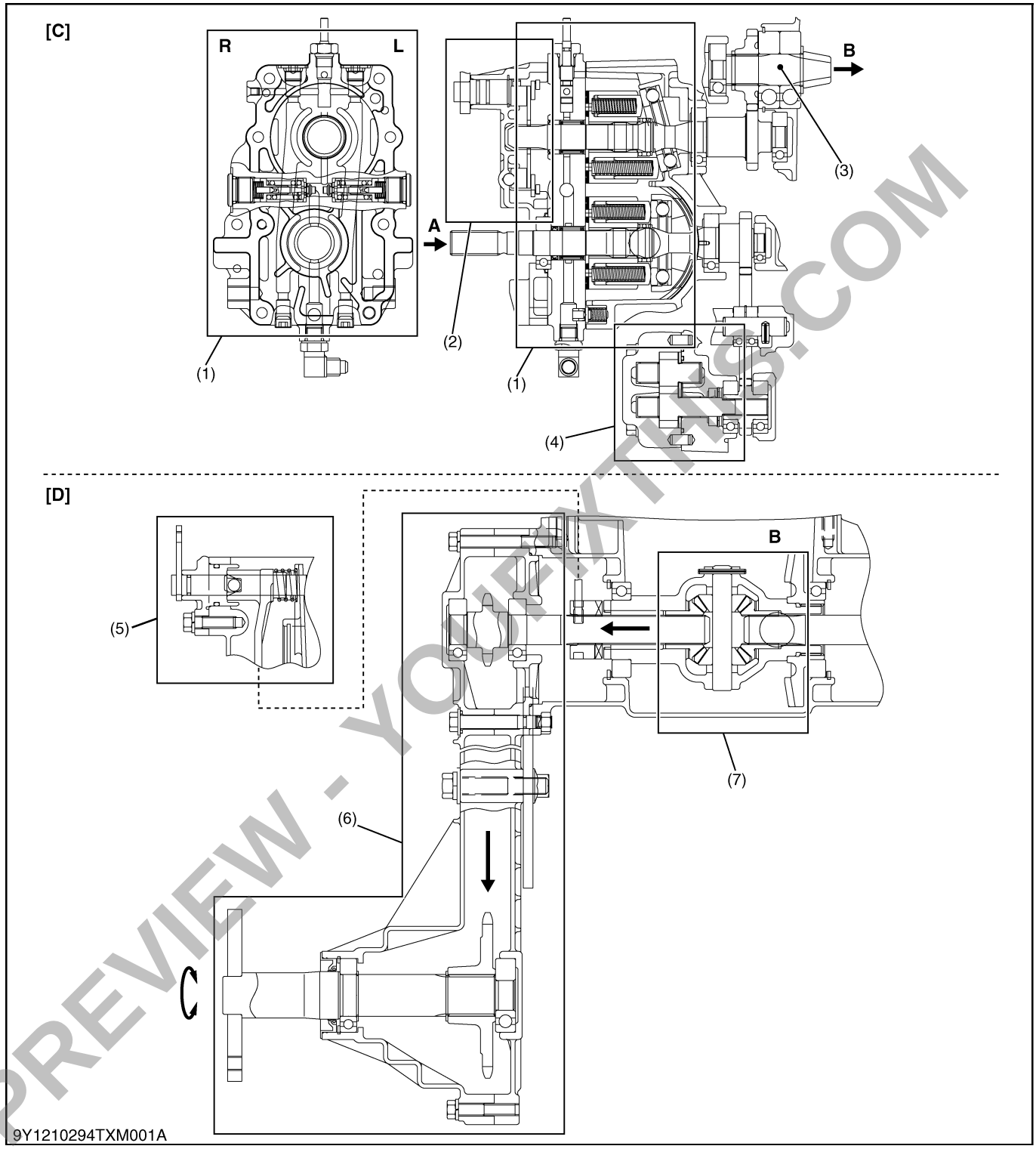
A : Oil level is acceptable within this range.

9Y1210294GEG0008US0

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

1. STRUCTURE



(1) HST Section
(2) Brake Section
(3) Pinion Shaft
(4) Hydraulic Pump Section
(5) Differential Lock Section
(6) Rear Axle (LH) Section
(7) Differential Gear Section

A : From Engine
B : To Differential Gear and Rear Axle
R : Right Side
L : Left Side
[C] Transaxle Case Front Section
[D] Transaxle Case Rear Section

Transaxle consists of HST section (1), brake section (2), hydraulic pump section (4), rear axle section (6), differential lock section (5) and differential gear section (7) etc. as shown in the above figure.

9Y1210294TXM0001US0

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

INFORMATION

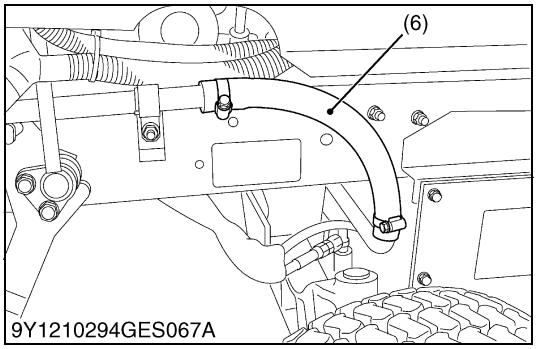
CONTENTS

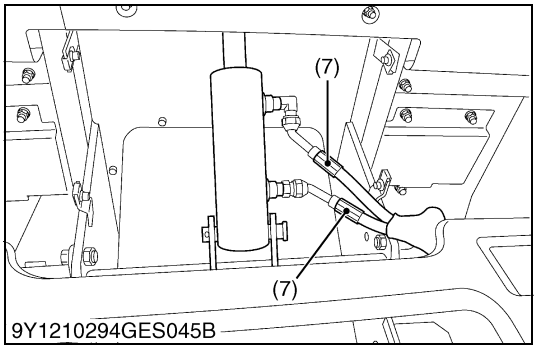
1. SAFETY FIRST I-1
2. SAFETY DECALS I-4
3. SPECIFICATIONS I-9
4. DIMENSIONS I-11

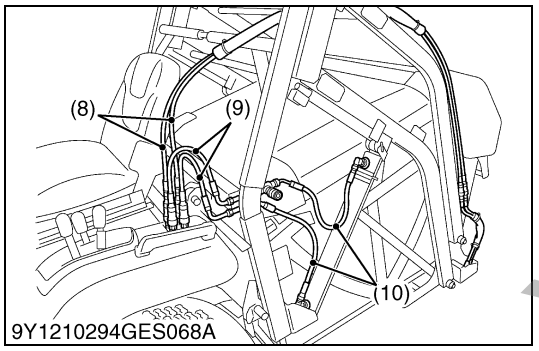
PREVIEW - YOUFIXTHIS.COM

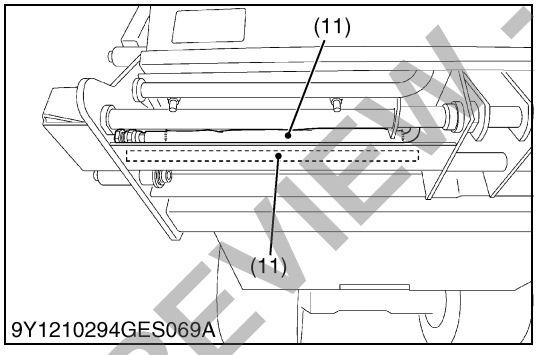
Download full manual at youfixthis.com

(Continued)









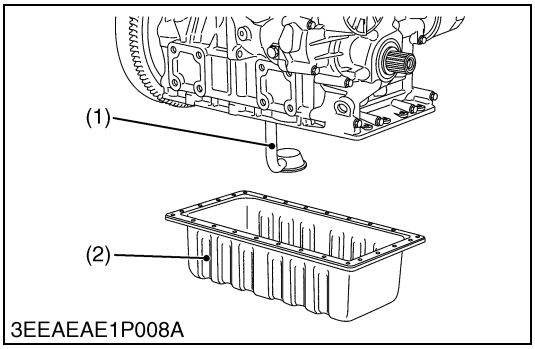
(6) Front PTO Return Hose
(7) Grass Container Dump Cylinder Hose (LD)
(8) Grass Container Dump Cylinder Hose (HD)
(9) Grass Container Lift Cylinder Hose (HD)
(10) Grass Container Lift Cylinder Hose (LH)(HD)
(11) Grass Container Dump Cylinder Hose (HD)

9Y1210294GEG0045US0

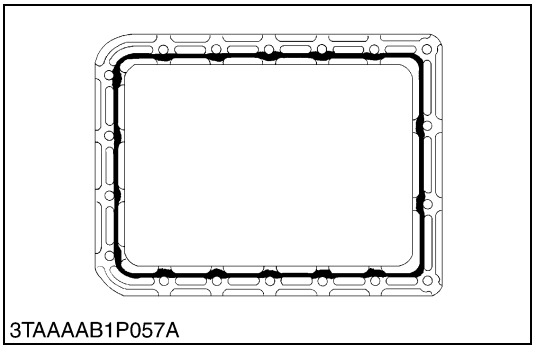
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

(4) Gear Case and Timing Gears



3EEAEAE1P008A


3TAAAAB1P057A

Oil Pan and Oil Strainer

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

(When reassembling)

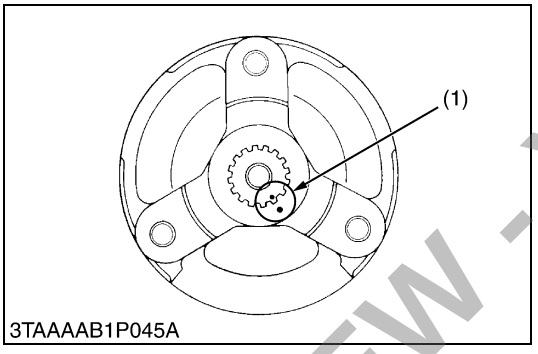
- After cleaning the oil strainer, check to see that the filter mesh in clean, and install it.
- Visually check the O-ring, apply engine oil, and install it.
- Securely fit the O-ring to the oil strainer.
- To avoid uneven tightening, tighten oil pan mounting screws in diagonal order form the center.

■ **IMPORTANT**

- **Scrape off the old adhesive completely. Wipe the sealing surface clean using waste cloth soaked with gasoline. Now apply new adhesive 3.0 to 5.0 mm (0.12 to 0.19 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 5.0 mm (0.19 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) Oil Strainer (2) Oil Pan

9Y1210294ENS0038US0



3TAAAAB1P045A

Fan Drive Pulley

1. Secure the flywheel to keep it from turning.
2. Remove the fan drive pulley screw.
3. Draw out the fan drive pulley with a puller.

(When reassembling)

- Install the pulley to crankshaft, aligning the mark (1) on them (3-cylinder engine).
- Apply engine oil to the fan drive pulley retaining screw. And tighten it.

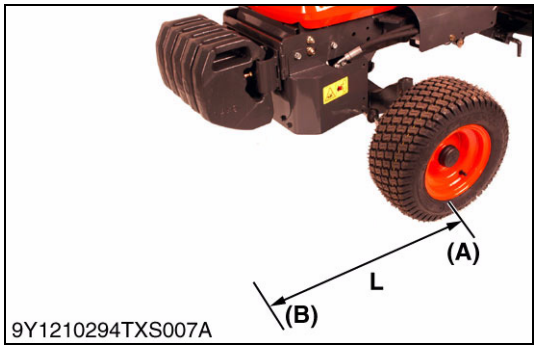
Tightening torque	Fan drive pulley screw	236 to 245 N·m 24.0 to 25.0 kgf·m 174 to 180 lbf·ft

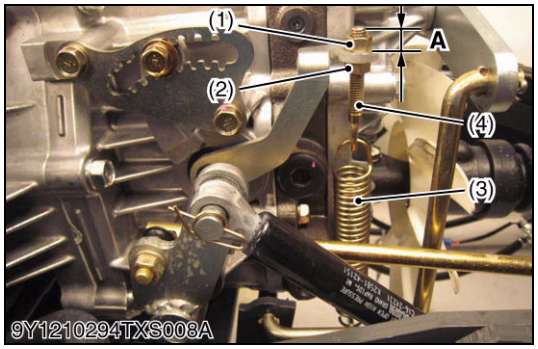
(1) Alignment Mark

9Y1210294ENS0039US0

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com





Checking and Adjusting HST Neutral Spring (for Dynamic Braking)

WARNING

- **Do not operate if machine moves on level ground with foot off speed control pedal.**
- **If machine moves on level ground with foot off the pedal, or, if the pedal is too slow in returning to "Neutral" position when removing the foot from the pedal, adjust the HST neutral spring.**

The HST neutral spring located under the front right side of the fender can adjust returning spring of speed control pedal.

Since the HST neutral spring tension is weakened, the HST tension should be checked and adjusted every 100 hours.

1. Checking the HST neutral spring tension : Dynamic braking
   - Start the engine and hold the maximum engine speeds.
   - Operate the machine on the concrete level ground.
   - Depress the speed control pedal to **"Forward"**.
   - Release the foot from the speed control pedal.
   - Check the distance between the foot releasing point and the machine stopping point.
   - If the distance is more than approximately 3 to 5 m (10 to 16 feet), strengthen the HST neutral spring tension so that the machine will stop in approximately 3 to 5 m (10 to 16 feet) after releasing the foot from the speed control pedal.

(Reference)

Distance "L" between the foot releasing point and the machine stopping point	Reference	Approximately 3 to 5 m (10 to 16 feet)

2. Remove the step from the machine.
   - Loosen the lock nut (1).
   - Turn the adjusting nut (2) half turn to pull the HST neutral spring (3).
   - Tighten and lock the lock nut (1).
   - Start the engine and check dynamic brake as mentioned former.
   - If the machine will not stop with dynamic brake in approximately 3 to 5 m (10 to 16 feet), adjust the neutral spring again.

Length **"A"** of adjusting rod at shipping the machine from the factory	Reference	20 mm (0.79 in.)

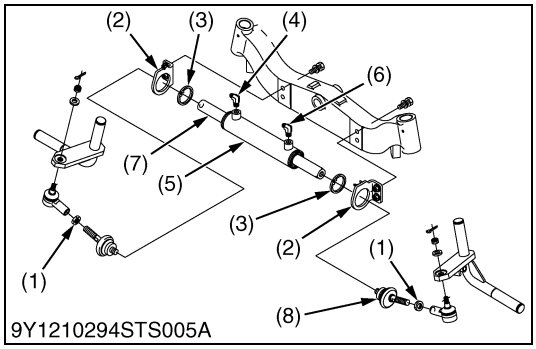
(1) Lock Nut
(2) Adjusting Nut
(3) HST Neutral Spring
(4) Adjusting Rod

(A) Foot Releasing Point
(B) Machine Stopping Point
L : Distance between Foot Releasing Point and the Machine Stopping Point
A : Length of Adjusting Rod From Stay

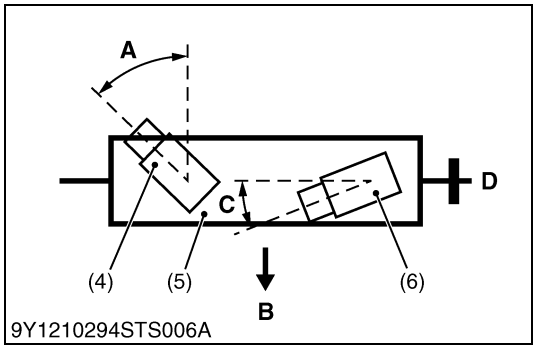
9Y1210294TXS0009US0

PREVIEW - YOUFIXTHIS.COM

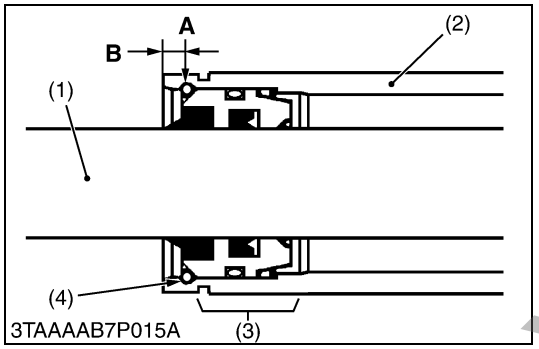
Download full manual at youfixthis.com



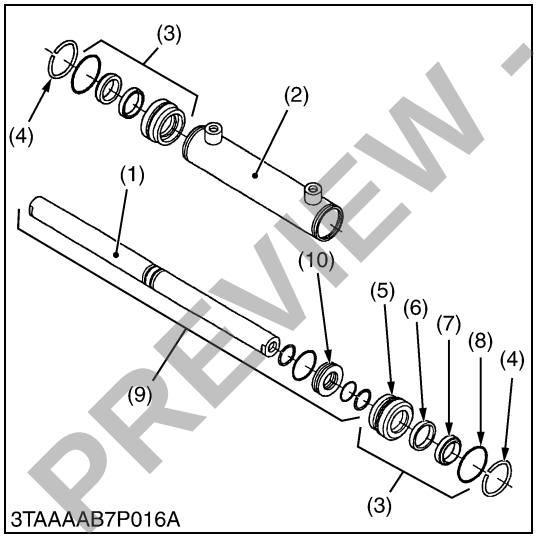
9Y1210294STS005A



9Y1210294STS006A



3TAAAAB7P015A



3TAAAAB7P016A

Power Steering Cylinder Hose Adaptor and Tie-rod

1. Remove the steering cylinder hose adaptors (4) (6).
2. Remove the tie-rods from the piston rod (7).
3. Remove the cylinder holder (2) and cir-clip (3).

(When reassembling)

- Be sure to install the steering hose adaptors (4) (6) as shown in the figure.
- Apply the LOCKTITE #271 or equivalent to the tie-rod end screw.

Tightening torque	Axial ball joint	74 to 84 N·m 7.5 to 8.6 kgf·m 54.6 to 62.0 lbf·ft

(1) Nut
(2) Cylinder Holder
(3) Cir-Clip
(4) Hose Adaptor (RH)
(5) Steering Cylinder
(6) Hose Adaptor (LH)
(7) Piston Rod
(8) Axial Ball Joint

A : 0.77 rad. (45 °)
B : Front
C : 0.17 rad. (10 °)
D : Left Hand Side

9Y1210294STS0007US0

Steering Cylinder

1. Carefully clamp the cylinder in a vise.
2. Push one of the guide assembly (3) to inside of cylinder tube (2).
3. Drill a hole (2.5 mm dia., 0.098 in. dia) on the cylinder tube (2) just over the snap ring (4) as shown figure left.
4. Take a little screwdriver and lift off the snap ring (4) from its groove. Simultaneously support this action by pushing from the outside of the cylinder tube with another little screwdriver or another tool.
5. Push out the piston rod assembly (9) and take off the guide assembly (3).

(When reassembling)

■ **NOTE**

- **Seals must be exchanged after disassembling.**
- **Apply transmission fluid to the exchanged seals.**
- **Enter the piston rod and block the guide assemblies with the snap rings.**

(1) Piston Rod
(2) Cylinder Tube
(3) Guide Assembly
(4) Snap Ring
(5) Guide
(6) Seal Ring
(7) Wiper Ring
(8) O-ring
(9) Piston Rod Assembly
(10) Center Piston

A : Drill a Hole
B : 5.25 mm (0.207 in.)

9Y1210294STS0008US0

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

3. TIGHTENING 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-12.)

Item	N·m	kgf·m	lbf·ft
Starter **B** terminal nut	5.9 to 11.8	0.6 to 1.2	4.3 to 8.7

9Y1210294ELS0003US0

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 18 of 343 pages

The full manual includes:

- All 343 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Kubota G23, G26 Workshop Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual