WSM

WORKSHOP MANUAL

G2160,G2160-R48S,G2460G

Kubota

KiSC issued 12, 2017 A

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

GENERAL

CONTENTS

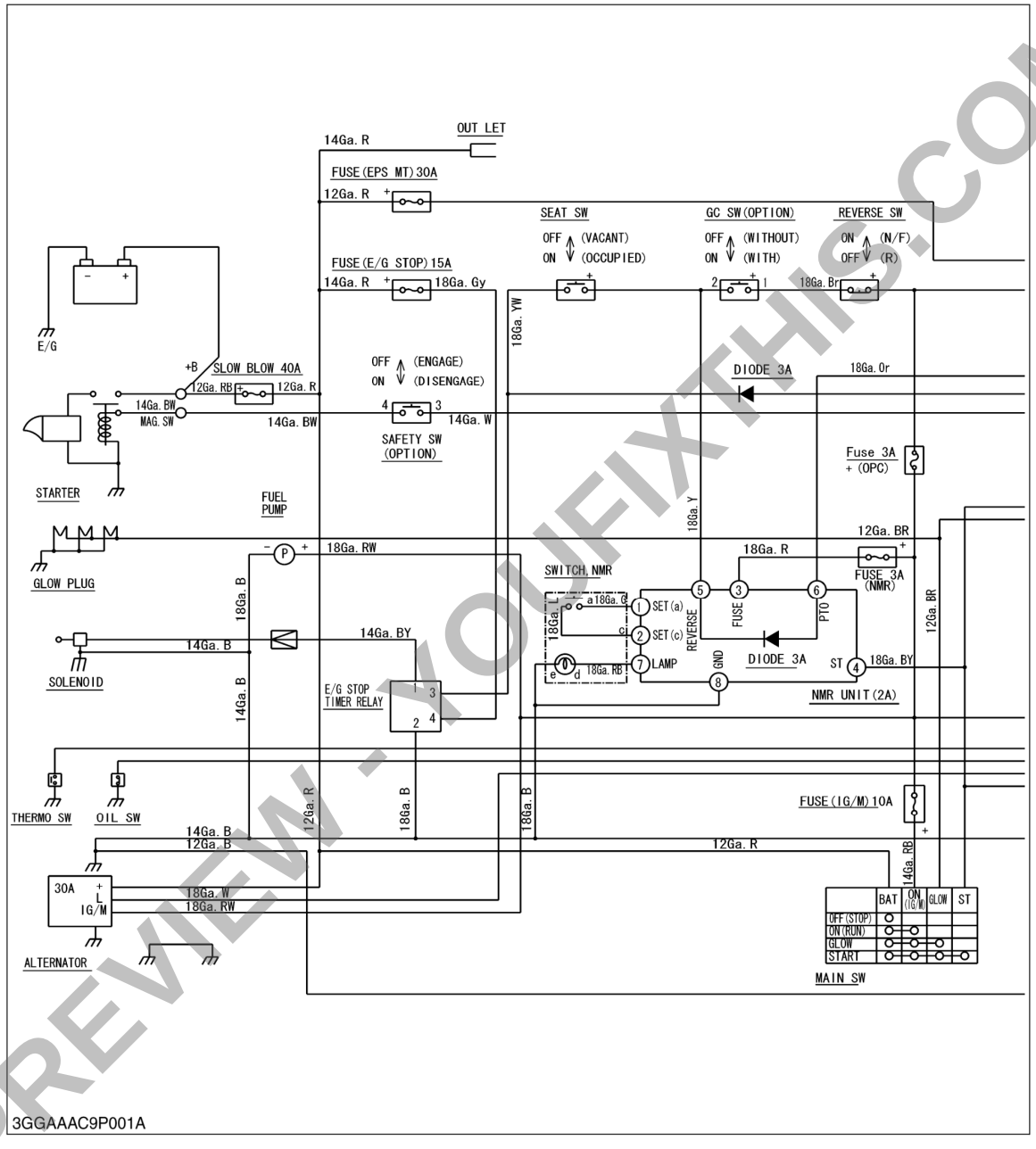
1. FEATURES G-1
2. IDENTIFICATION G-2
3. GENERAL PRECAUTIONS G-3
4. HANDLING PRECAUTIONS FOR ELECTRICAL PARTS AND WIRING .. G-4
   [1] WIRING G-4
   [2] BATTERY G-6
   [3] FUSE G-6
   [4] CONNECTOR G-6
   [5] HANDLING OF CIRCUIT TESTER G-7
5. LUBRICANTS, FUEL AND COOLANT G-8
6. TIGHTENING TORQUES G-10
   [1] GENERAL USE SCREWS, BOLTS AND NUTS G-10
   [2] METRIC SCREWS, BOLTS AND NUTS G-10
   [3] AMERICAN STANDARD SCREWS, BOLTS AND NUTS WITH UNC OR UNF THREADS G-11
7. MAINTENANCE CHECK LIST G-12
8. CHECK AND MAINTENANCE G-13
   [1] DAILY CHECK G-13
   [2] CHECK POINTS OF INITIAL 50 HOURS G-18
   [3] CHECK POINTS OF EVERY 50 HOURS G-20
   [4] CHECK POINTS OF EVERY 100 HOURS G-24
   [5] CHECK POINTS OF EVERY 150 HOURS G-26
   [6] CHECK POINTS OF EVERY 200 HOURS G-26
   [7] CHECK POINTS OF EVERY 300 HOURS G-27
   [8] CHECK POINTS OF EVERY 500 HOURS G-28
   [9] CHECK POINTS OF EVERY 1 YEAR G-29
9. SPECIAL TOOLS G-34
   [1] SPECIAL TOOLS FOR ENGINE G-34
   [2] SPECIAL TOOLS FOR MACHINE G-40
10. IMPLEMENT LIMITATIONS G-45

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

1. WIRING DIAGRAM

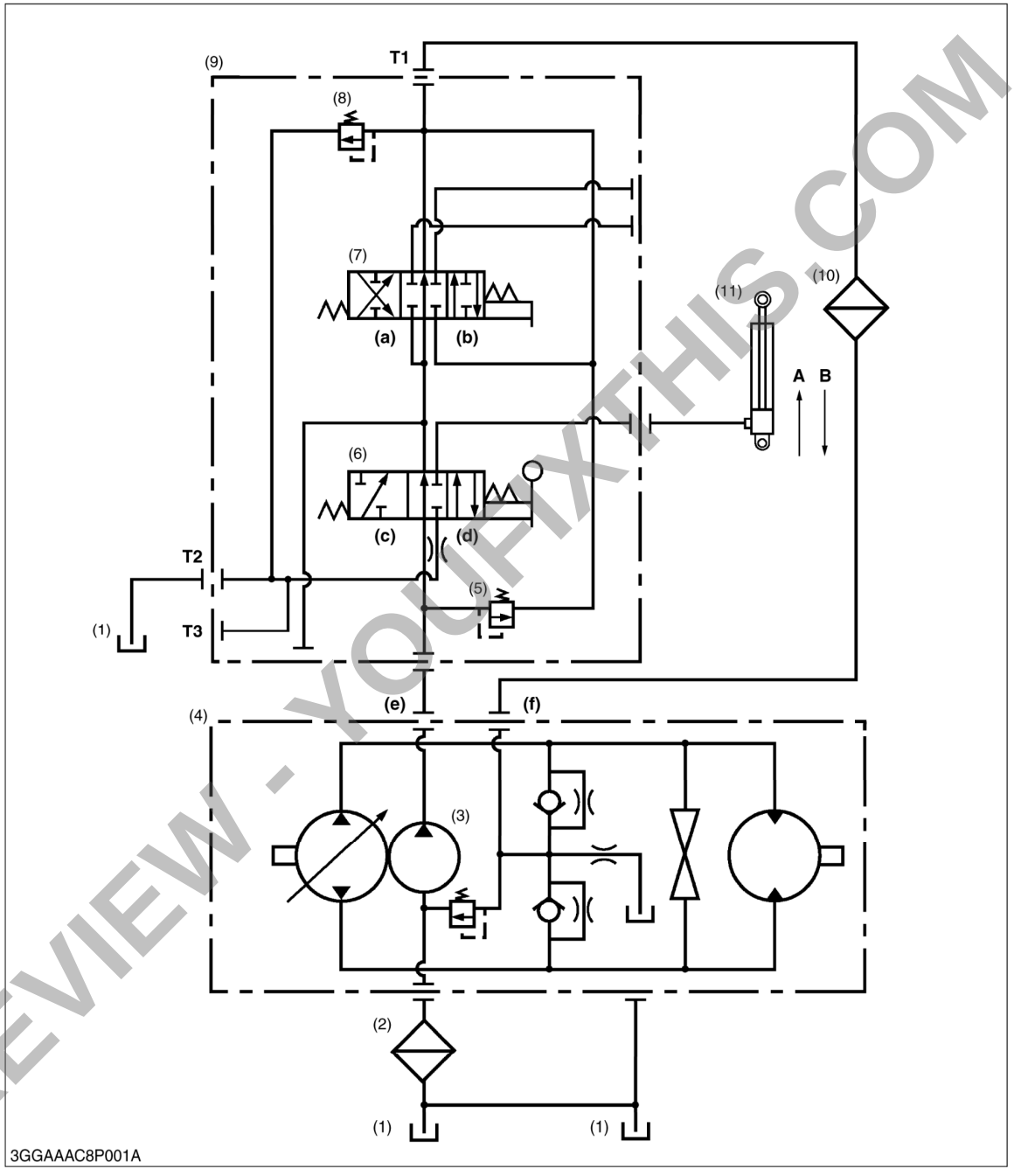
[1] WIRING DIAGRAM (with KRA system)



PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

1. HYDRAULIC CIRCUIT (LOW DUMP)

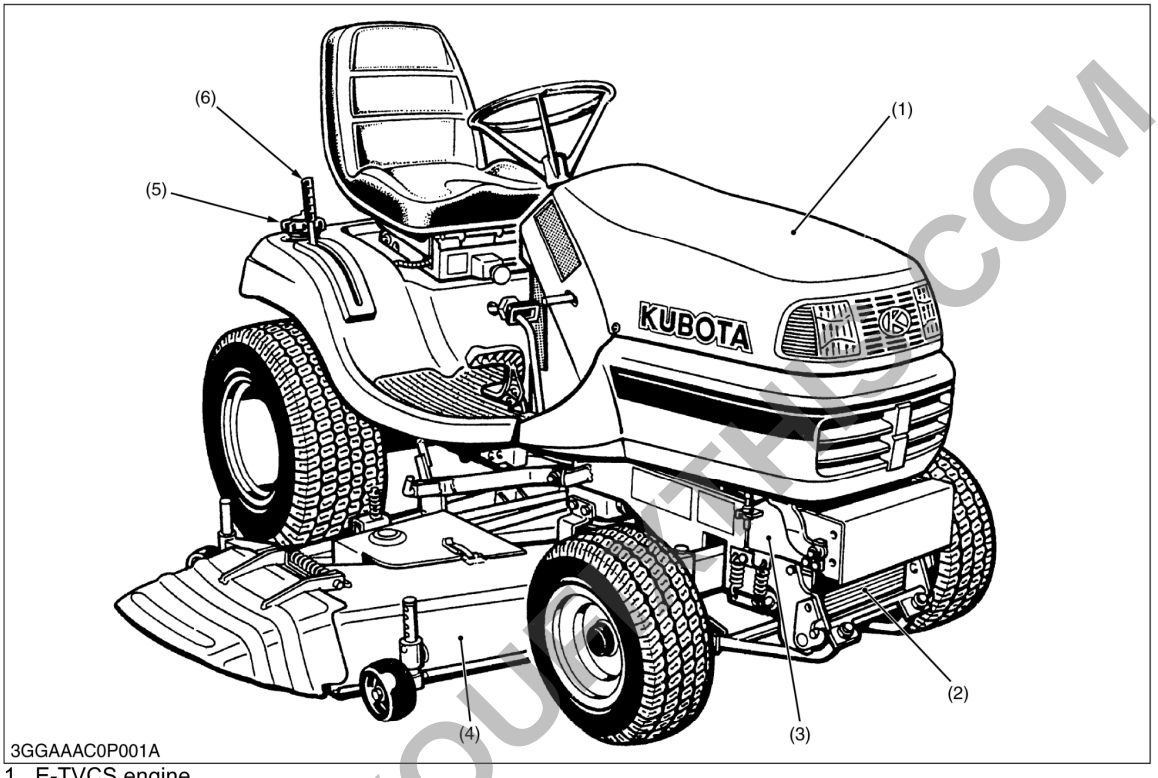


(1) Transmission Case
(2) Oil Strainer
(3) Charge Pump
(4) Hydrostatic Transmission (HST)
(5) Relief Valve
(6) Valve (for Mower Life Cylinder)
(7) Valve (for Grass Collector Cylinder)
(8) Filter Relief Valve
(9) Control Valve
(10) Oil Filter Cartridge
(11) Mower Lift Cylinder

A : Up
B : Down
(a) Open
(b) Close
(c) Up
(d) Down
(e) Out
(f) Return

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

1. FEATURES



3GGAAAC0P001A

1. E-TVCS engine
2. Front PTO (option)
3. Rugged ladder type chassis
4. Low-noise, high-performance mower
5. Large-capacity fuel tank
6. Hydraulic mower lift

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

6. 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

W1034542

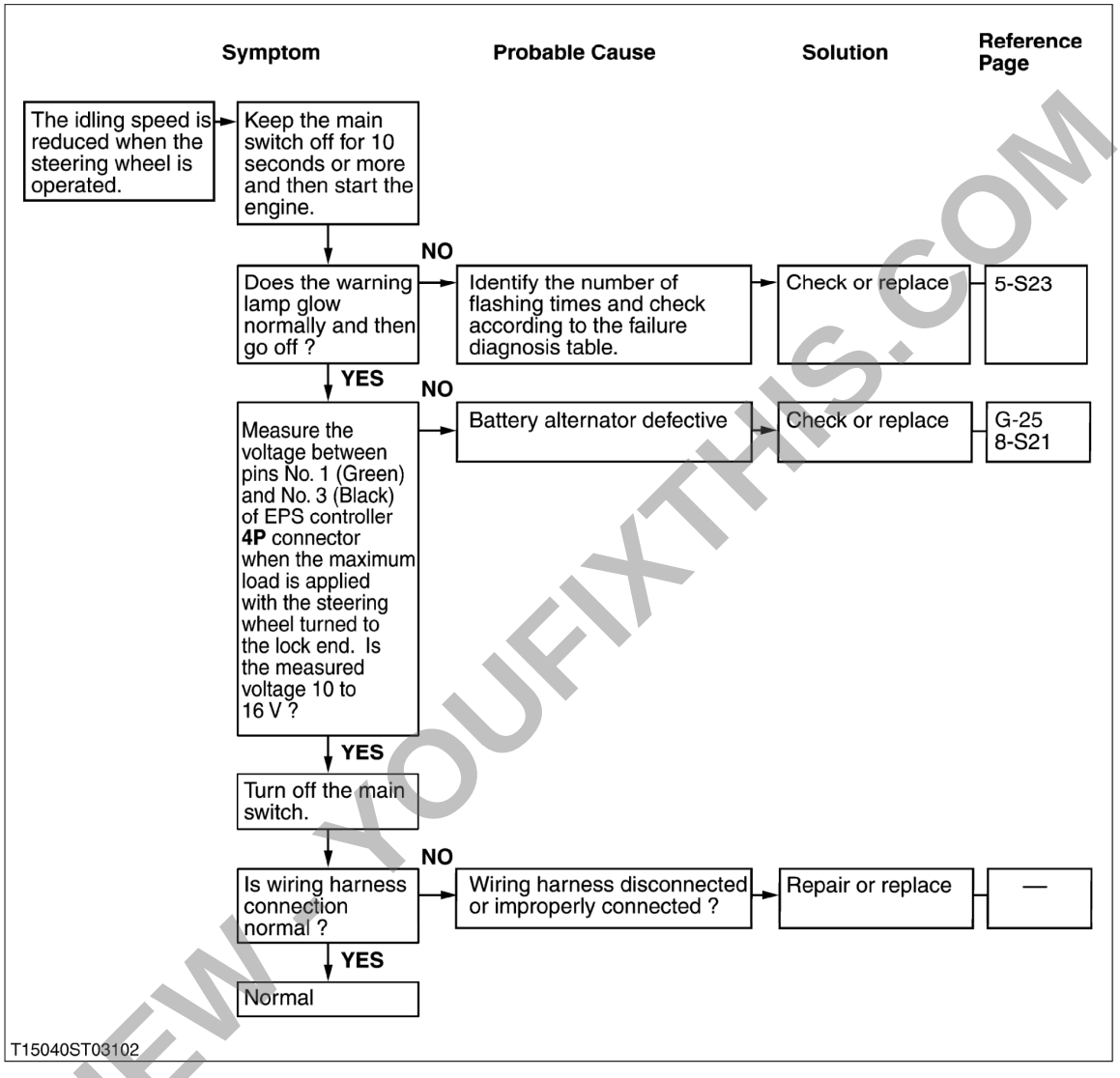
[2] METRIC SCREWS, BOLTS AND NUTS

Grade / Unit / Nominal Diameter	Property class 8.8 ⬡ 8.8			Property class 10.9 ⬡ 10.9		
	N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs
M 8	23.6 to 27.4	2.4 to 2.8	17.4 to 20.2	29.4 to 34.3	3.0 to 3.5	21.7 to 25.3
M 10	48.1 to 55.8	4.9 to 5.7	35.5 to 41.2	60.8 to 70.5	6.2 to 7.2	44.9 to 52.1
M 12	77.5 to 90.1	7.9 to 9.2	57.2 to 66.5	103.0 to 117.0	10.5 to 12.0	76.0 to 86.8
M 14	124.0 to 147.0	12.6 to 15.0	91.2 to 108.0	167.0 to 196.0	17.0 to 20.0	123.0 to 144.0
M 16	196.0 to 225.0	20.0 to 23.0	145.0 to 166.0	260.0 to 303.0	26.5 to 31.0	192.0 to 224.0

W1016172

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com



PREVIEW YOUFIXTHIS.COM

Download full manual at youfixthis.com

8. CHECK AND MAINTENANCE

CAUTION

- **Be sure to check and service the machine on a flat place with engine shut off, the parking brake on and chock the wheels.**

[1] DAILY CHECK

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

Checking

- Check areas where previous trouble was experienced.
- Walk around the machine.

1. Oil and water leak
2. Engine oil level
3. Coolant level in the recovery tank
4. Damage of machine body, tightness of all bolts and nuts
5. Radiator screen
6. Panel screen
7. Air cleaner
8. Oiling

- Mower

1. Make sure blade bolts are tight.
2. Check blades for wear or damage.
3. Check all hardware.
4. Make sure all pins are in place.

- While sitting in the operator's seat,

1. Speed control pedal
2. Brake pedal
3. Parking brake

- Turning the key switch "**ON**"

1. Head lights

- Starting the engine,

1. Color of the exhaust fumes
2. If either of safety start switch and seat safety control do not operate properly, contact your KUBOTA Dealer immediately.
3. Check for abnormal noise and vibration.
4. Check Easy checker™.

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.	–
	• Air in the fuel system	Bleed fuel system.	–
	• Water in the fuel system	Change fuel and replace fuel system.	–
	• Fuel pipe clogged	Clean fuel pipe.	–
	• Fuel filter clogged	Replace fuel filter.	G-28
	• 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-S54
	• Incorrect injection timing	Adjust injection timing.	1-S51
	• Fuel camshaft worn	Replace fuel camshaft.	1-S25
	• Injection nozzle clogged	Clean injection nozzle.	1-S53
	• Injection pump malfunctioning	Repair or replace injection pump.	1-S52
	• Seizure of crankshaft, camshaft, piston, cylinder or bearing	Replace crankshaft, camshaft, piston, cylinder or bearing.	1-S28 1-S30
	• Compression leak from cylinder	Replace head gasket, tighten cylinder head screw, glow plug and nozzle holder.	1-S21 1-S22
	• Improper valve timing	Correct valve timing.	1-S51
	• Piston ring and cylinder worn	Replace piston ring and bore oversize cylinder.	1-S28 1-S30 1-S45
	• Excessive valve clearance	Adjust valve clearance.	1-S19
(Starter Does Not Run)	• Battery discharged	Charge battery.	G-25
	• Starter malfunctioning	Repair or replace starter	8-S16
	• Slow blow fuse blown	Replace slow blow fuse.	–
	• Main switch malfunctioning	Repair or replace main switch.	8-S12
	• PTO switch defective	Replace PTO switch.	8-S28
	• Brake switch defective	Replace brake switch.	8-S27
	• Reverse switch defective	Replace reverse switch or adjust reverse switch gap.	8-S30
	• Seat switch defective	Replace seat switch.	8-S28
	• Wiring harness disconnected	Connect wiring harness.	–

W1066187

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

SPECIFICATIONS

Model			G2160
Maximum gross power			15.6 kW (21 HP)
Engine	Model		D782-E-G21
	Type		Indirect injection, vertical, water cooled, 4-cycle diesel engine
	Number of cylinders		3
	Bore and stroke		67.0 × 73.6 mm (2.64 × 2.90 in.)
	Total displacement		778 cm^3 (47.48 cu.in.)
	Rated revolution		3000 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		0.33 to 0.37 rad. (19° to 21°) before T.D.C.
	Injection order		1-2-3
	Injection pressure		13.73 MPa (140 kgf/cm^2, 1990 psi)
	Compression ratio		23 : 1
	Lubricating system		Forced lubrication by gear pump
	Cooling system		Pressurized radiator, forced circulation with water pump
	Lubricating oil		API Service classification CCor CD, Below 0°C (32 °F) : SAE 10W or 10W-30, 0 to 25 °C (32 °F to 77 ° F) : SAE 20 or 10W-30, Above 25 °C (77 °F) : SAE 30 or 10W-30
	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		22L (5.8U.S.gals., 4.8 Imp. gals.)
	Engine crankcase		2.8L (2.95 U.S.qts., 2.4 Imp.qts.)
	Engine coolant		2.1L (2.2 U.S.qts., 1.8 Imp.qts.)
	Recovery tank		0.25 L (0.26 U.S.qts., 0.22 Imp.qts.)
	Transmission (Including HST and cylinder)		4.5L (4.75 U.S.qts., 3.86 Imp.qts.)
	Mower gear case oil		0.40L (0.42 U.S.qts., 0.35 Imp.qts.)
Tires	Front		16 × 6.50-8 (4PR) Turf
	Rear		23 × 10.5-12 (4PR) Turf
Travelling speeds	Forward		0 to 15.0 km/h (0 to 9.3 mph)
	Reverse		0 to 6.0 km/h (0 to 3.8 mph)
Dimensions	Overall length		1885 mm (74.2 in.)
	Overall width (With mower)		1843 mm (72.6 in.)
	Overall height		1280 mm (50.4 in.)
	Wheel base		1290 mm (50.8 in.)
	Treads	Front	825 mm (32.5 in.)
		Rear	780 mm (30.7 in.)
Weight (Without mower deck and grass collecter)			430 kg (948 lbs)
PTO			Belt drive
PTO clutch			Belt tension
Revolution (PTO speed)			2576 rpm
PTO brake			Available

W1028929

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

7. MAINTENANCE CHECK LIST

No.	Item / Period		Every 50 Hr	Hour meter reading									Reference page
				50	100	150	200	300	400	450	500	After	
1	Tires	Check	☆									Every 50 Hr	G-20
2	Battery condition	Check			☆		☆	☆	☆		☆	Every 100 Hr	G-25
3	Engine oil	Change		★	☆		☆	☆	☆		☆	Every 100 Hr	G-18
4	Engine oil filter cartridge	Change		★			☆		☆			Every 200 Hr	G-19
5	Transmission fluid	Change					☆				☆	Every 300 Hr	G-27
6	Transmission oil filter cartridge	Replace		★			☆				☆	Every 300 Hr	G-19
7	Transmission oil strainer	Clean					☆				☆	Every 300 Hr	G-28
8	Hydraulic hose	Check					☆		☆			Every 200 Hr	G-27
		Replace										Every 2 Years*	G-31
9	Fuel lines	Check			☆		☆	☆	☆		☆	Every 100 Hr	G-24
		Replace[1]										Every 2 Years*	G-31
10	Fuel filter	Check			☆		☆	☆	☆		☆	Every 100 Hr	G-24
		Replace[1]									☆	Every 500 Hr	G-28
11	Radiator hose and clamp	Check					☆		☆			Every 200 Hr	G-26
		Replace[1]										Every 2 Years*	G-31
12	Radiator core	Clean			☆		☆	☆	☆		☆	Every 100 Hr**	G-24
13	Cooling system	Clean										Every 1 Year	G-29
14	Coolant	Change										Every 1 Year	G-29
15	Air cleaner element	Clean	☆**										G-22
		Replace										Every 1 Year**	G-29
16	Fan belt tension	Adjust	☆										G-21
17	Front PTO belt tension	Adjust	☆***										G-23
18	Brake play	Adjust[1]	☆										G-20
19	Greasing	–	☆										G-21
20	Mower gear box oil	Change		★		☆		☆		☆		Every 150 Hr	G-19
21	Mower gear box oil seal	Replace										Every 2 Years*	G-32

■ IMPORTANT

★ : The maintenance indicated by ★ must be done initially.

*** : Replace only if necessary.**

**** : This maintenance should be done more often in dusty conditions than in normal conditions.**

***** : Initial elongation of the front PTO belt may occur prior to 25 hours. Adjust the tension spring length as needed to maintain belt tension.**

1 : These items should be serviced by an authorized KUBOTA Dealer, unless the owner has the proper tools and is mechanically proficient.

W1035769

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

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.

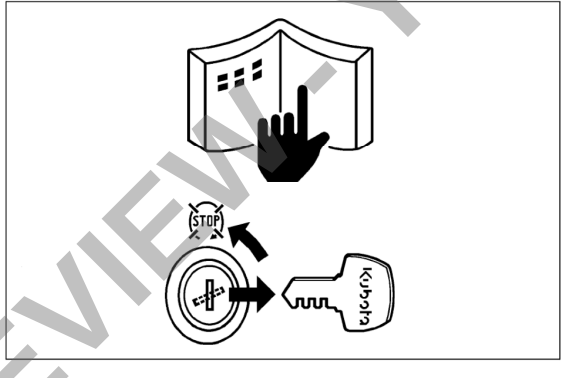
DANGER : **Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.**

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.**



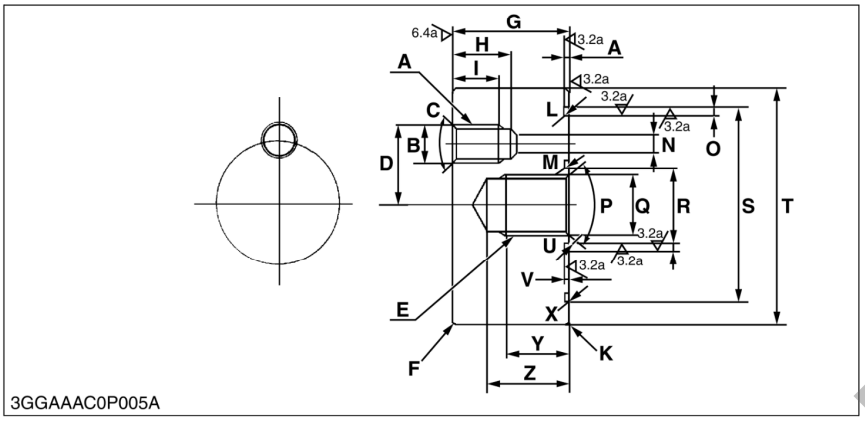
BEFORE SERVICING AND REPAIRING

- Read all instructions and safety instructions in this manual and on your generator 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.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Flange for Control Valve



1. Use for checking the relief valve setting pressure.

■ **NOTE**

- **When using , attach with following parts.**

1. O-ring: 04811-10240
2. O-ring: 04811-10600.

A	RP 1/4	**N**	5 mm dia. (0.20 in. dia.)
B	14.5 mm dia. (0.59 in. dia.)	**O**	2.70 to 2.95 mm (0.106 to 0.116 in.)
C	2.09 rad (120 °)	**P**	2.09 rad (120 °)
D	20 mm (0.79 in.)	**Q**	20 mm dia. (0.79 in. dia.)
E	3/4-16 UNF	**R**	23.95 to 24.00 mm dia. (0.9429 to 0.9449 in. dia.)
F	Chamfer 1mm (0.04 in.)	**S**	63.00 to 63.05 mm dia. (2.4803 to 2.4823 in. dia.)
G	38 mm (1.50 in.)	**T**	76 mm dia. (2.99 in. dia.)
H	18 mm (0.71 in.)	**U**	R 0.5 mm (0.02 in.)
I	15 mm (0.59 in.)	**V**	1.4 to 1.5 mm (0.055 to 0.059 in.)
J	1.4 to 1.5 mm (0.055 to 0.059 in.)	**W**	2.70 to 2.95 mm (0.106 to 0.116 in.)
K	Chamfer 1mm (0.04 in.)	**X**	R 0.5mm (0.02 in.)
L	R 0.5 mm (0.02 in.)	**Y**	20 mm (0.79 in.)
M	R 0.5 mm (0.02 in.)	**Z**	26 mm (1.02 in.)

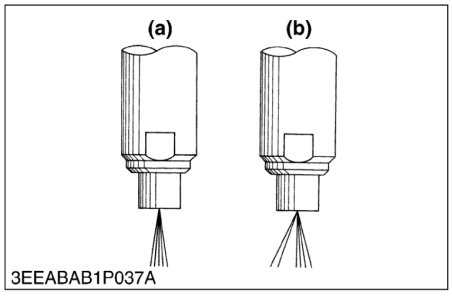
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

(B) Injection Nozzle

CAUTION

- **Check the injection pressure and condition after confirming that there is nobody standing in the direction the fume goes.**
  If the fume from the nozzle directly contacts the human body, cells may be destroyed and blood poisoning may be caused.



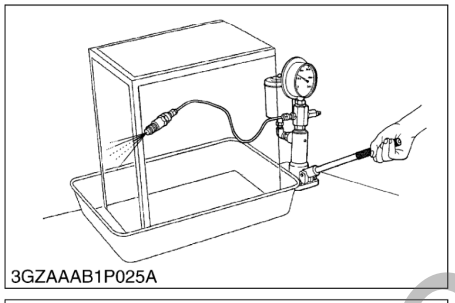
3EEABAB1P037A

Nozzle Spraying Condition

1. Set the injection nozzle to a nozzle tester (Code No. 07909-31361), and check the nozzle spraying condition.
2. If the spraying condition is defective, replace the nozzle piece.

(a) Good **(b) Bad**

W10411400


3GZAAAB1P025A

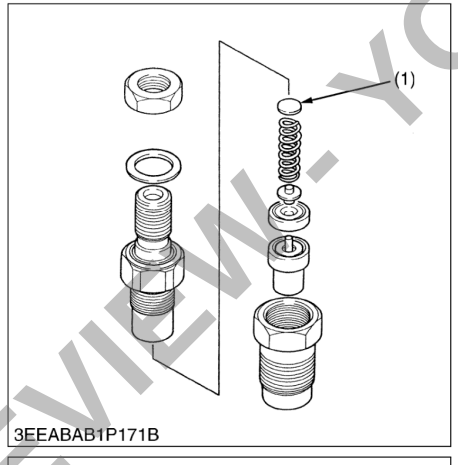
Fuel Injection Pressure

1. Set the injection nozzle to a nozzle tester (Code No. 07909-31361).
2. Slowly move the tester handle to measure the pressure at which fuel begins to jet out from the nozzle.
3. If the measurement is not within the factory specifications, replace the adjusting washer (1) in the nozzle holder to adjust it.

Fuel injection pressure	Factory spec.	13.7 to 14.7 MPa 140 to 150 kgf/cm^2 1990 to 2130 psi

(Reference)

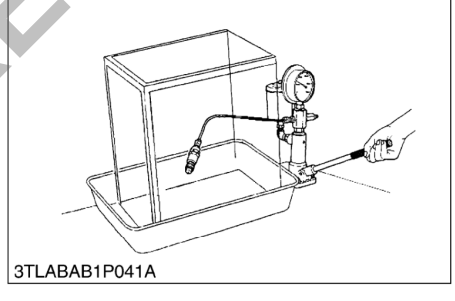
- Pressure variation with 0.025 mm (0.001 in.) difference of adjusting washer thickness.
  Approx. 59 kPa (0.6 kgf/cm^2, 8.5 psi)



3EEABAB1P171B

(1) Adjusting Washer

W10408820


3TLABAB1P041A

Valve Seat Tightness

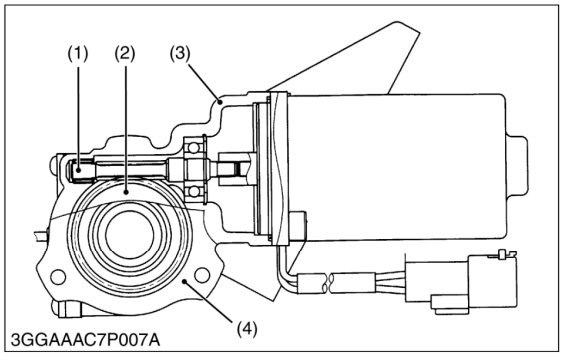
1. Set the injection nozzle to a nozzle tester (Code No. 07909-31361).
2. Raise the fuel pressure, and keep at 12.7 MPa (130 kgf/cm^2, 1850 psi) for 10 seconds.
3. If any fuel leak is found, replace the nozzle piece.

Valve seat tightness	Factory spec.	No fuel leak at 12.7 MPa 130 kgf/cm^2 1850 psi

W10412730

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

(3) Motor



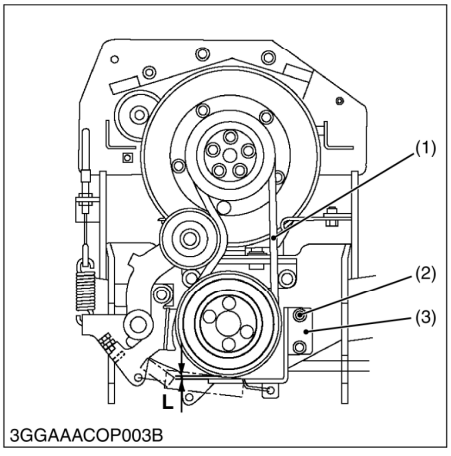
The motor is installed on the steering column (4). It is composed of a worm gear (1) and direct current motor (3). The worm gear (1) is engaged with the helical gear of the worm wheel (2), reducing and transmitting the motor revolution to the worm wheel.

(1) Worm Gear
(2) Helical Gear of Worm Wheel
(3) Direct Current Motor
(4) Steering Column

W1014140

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com



3GGAAACOP003B

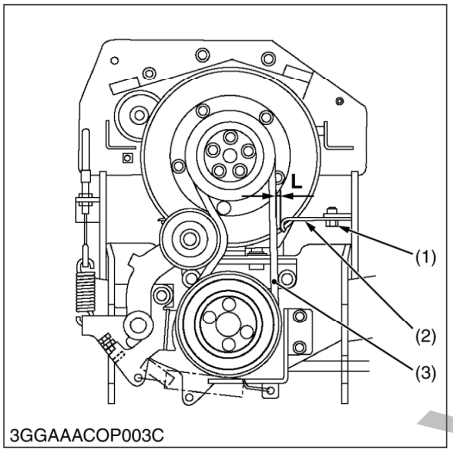
Adjusting Belt Stay

1. Place the machine on level ground, and stop the engine.
2. Set the PTO clutch lever to **"ENGAGE"** position.
3. Measure the clearance (**L**) between the belt stay (3) and front PTO belt (1).
4. If the measurement is not within the factory specifications, loosen the belt stay mounting screws (2) and move the belt stay (3) to adjust.

Clearance (**L**) between belt stay and front PTO belt	Factory spec.	1.0 to 2.5 mm 0.04 to 0.10 in.

(1) PTO Belt
(2) Belt Stay Mounting Screws
(3) Belt Stay

W1011294



3GGAAACOP003C

Adjusting Belt Retainer

1. Place the machine on level ground, and stop the engine.
2. Set the PTO clutch lever to **"ENGAGE"** position.
3. Measure the clearance (**L**) between the belt retainer (2) and front PTO belt (3).
4. If the measurement is not within the factory specifications, loosen the belt retainer mounting screws (1) and move the belt retainer (2) to adjust.

Clearance (**L**) between belt retainer and front PTO belt	Factory spec.	2.0 mm 0.08 in.

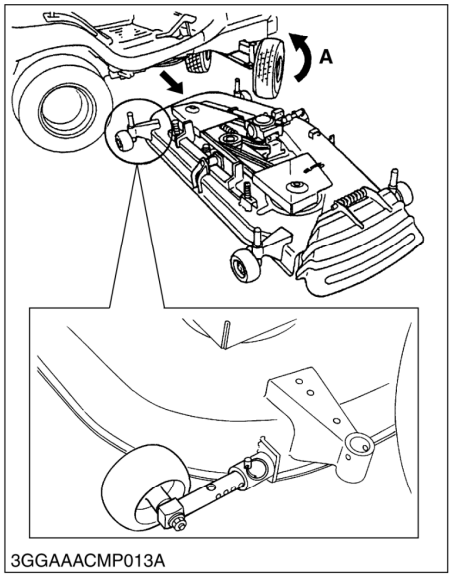
(1) Belt Retainer Mounting Screws
(2) Belt Retainer
(3) PTO Belt

W1011549

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

[2] DISMOUNTING AND MOUNTING

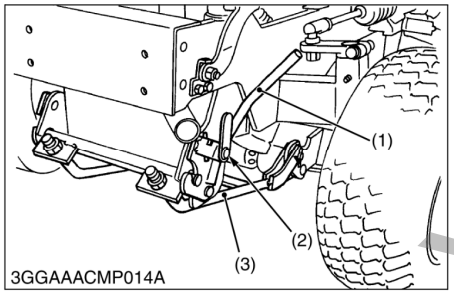


3GGAAACMP013A

Anti-scalp Rollers and Cutting Height Adjusting Dial

1. Park the machine on level ground, and stop the engine.
2. Set the front anti-scalp rollers sideways and at the topmost position.
3. Set the cutting height adjusting dial to **"1"** position, and down the mower.

W1013013



3GGAAACMP014A

Front Link

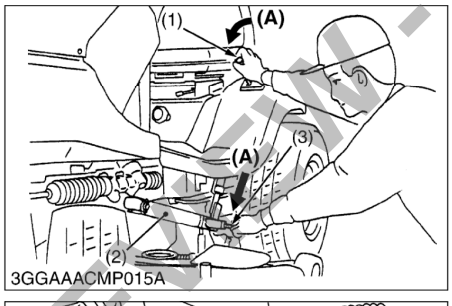
1. Pull the lever fulcrum fixing pin (2) and turn it clockwise to release the lock.
2. Push down the link fixing lever (1).
3. Remove the front link (3) from the mower deck.

(When reassembling)

- When attach the front link, make sure the length of the front link. (See page 9-S5.)

(1) Link Fixing Lever
(2) Lever Fulcrum Fixing Pin
(3) Front Link

W1013166



3GGAAACMP015A

Rear Links and Universal Joint

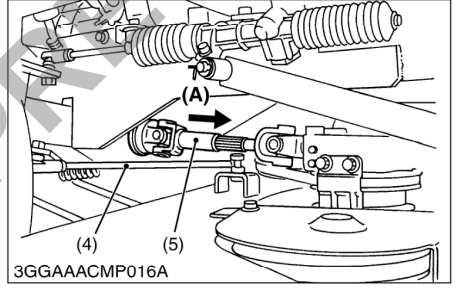
1. Place the hydraulic lift lever (1) in the **"DOWN"** position. Push down the rear links (2) to align with the mower bracket.
2. Disconnect the rear links (2) from the mower deck, pulling the L-pins (3).
3. Pull back the coupler (4) to unlock.
4. Remove the universal joint (5) from the PTO shaft.
5. Start the engine, and lift the rear links (2).
6. Stop the engine.

(When reassembling)

- Apply grease to the splines and grease nipples of the universal joint.
- Slide the universal joint back and forward to make sure the universal joint is locked securely.
- When attach the lift links, make sure the length of the lift links. (See page 9-S6.)

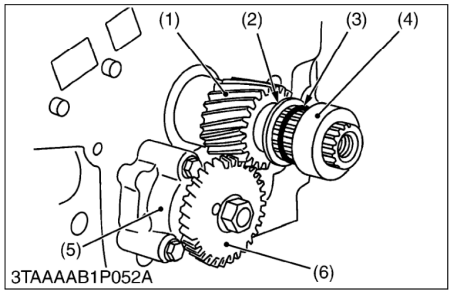
(1) Hydraulic Lift Lever
(2) Rear Links
(3) L-Pins
(4) Coupler
(5) Universal Joint
(A) PULL

W1013384



3GGAAACMP016A

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



Oil Pump and Crankshaft Gear

1. Remove the oil pump gear (6).
2. Remove the oil pump (5).
3. Remove the collar (4), O-ring (3) and oil slinger (2).
4. Remove the crankshaft gear (1) with a puller.

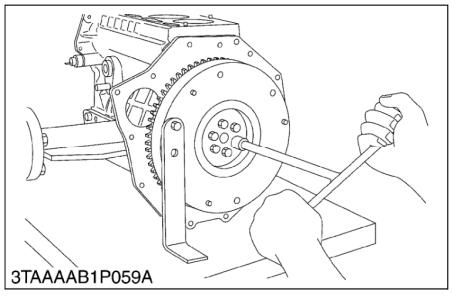
(When reassembling)

- Install the collar after aligning the marks on the gears. (See the figure at “Idle Gear and Camshaft”.)

(1) Crankshaft Gear
(2) Crankshaft Oil Slinger
(3) O-ring
(4) Crankshaft Collar
(5) Oil Pump
(6) Oil Pump Gear

W10180290

(D) Crankshaft



Flywheel

1. Fit the stopper to the flywheel.
2. At first, remove two pieces of the flywheel screws.
3. Insert two pieces of the flywheel guide screws in the holes.
4. Remove all flywheel screws.
5. Remove the flywheel slowly along the flywheel guide screws.

(When reassembling)

- Insert two pieces of the flywheel guide screws.
- Fit the flywheel giving care to the position of the knock pin.
- Apply engine oil to the threads and the undercut surface of the flywheel bolt and fit the bolt.

Tightening torque	Flywheel screw	53.9 to 58.8 N·m 5.5 to 6.0 kgf·m 39.8 to 43.4 ft-lbs

W10290240

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 18 of 398 pages

The full manual includes:

- All 398 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Kubota G2160, G2160-R48S, G2460G Workshop Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual