WSM

WORKSHOP MANUAL

TRACTOR,ROTARY MOWER, FRONT LOADER

BX1850,BX2350,RCK48-18BX, RCK54-23BX,RCK60B-23BX, RCK48P-18BX,RCK54P-23BX, LA203,LA243

Kubota

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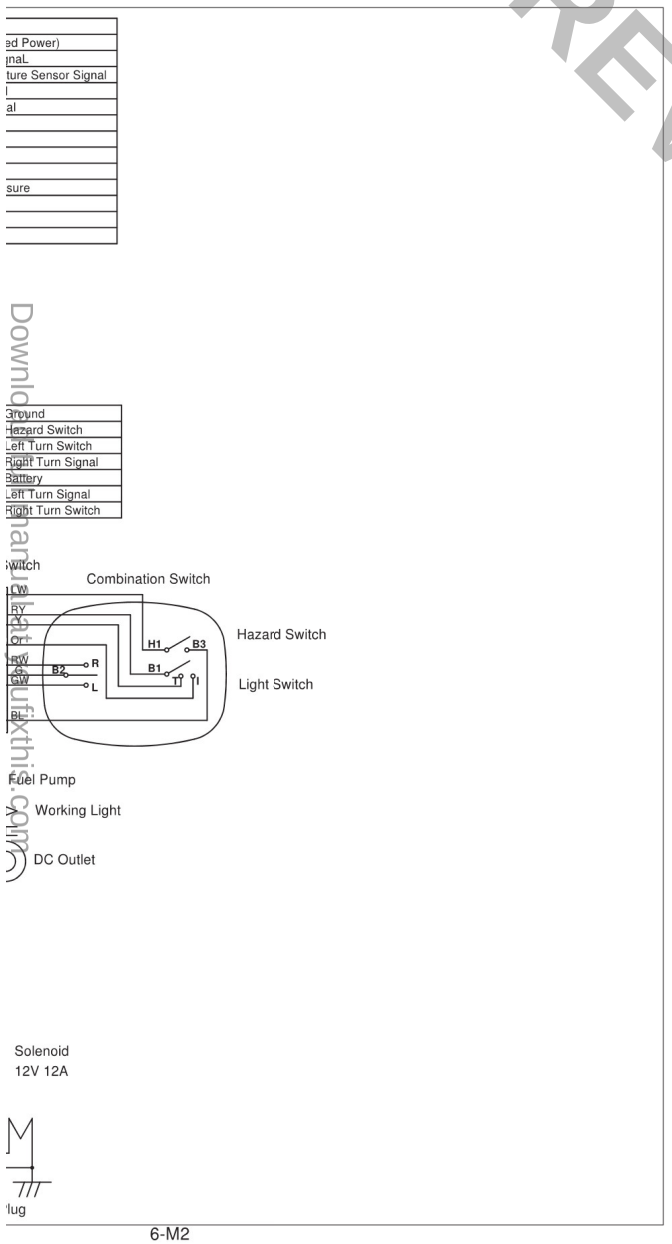
GENERAL

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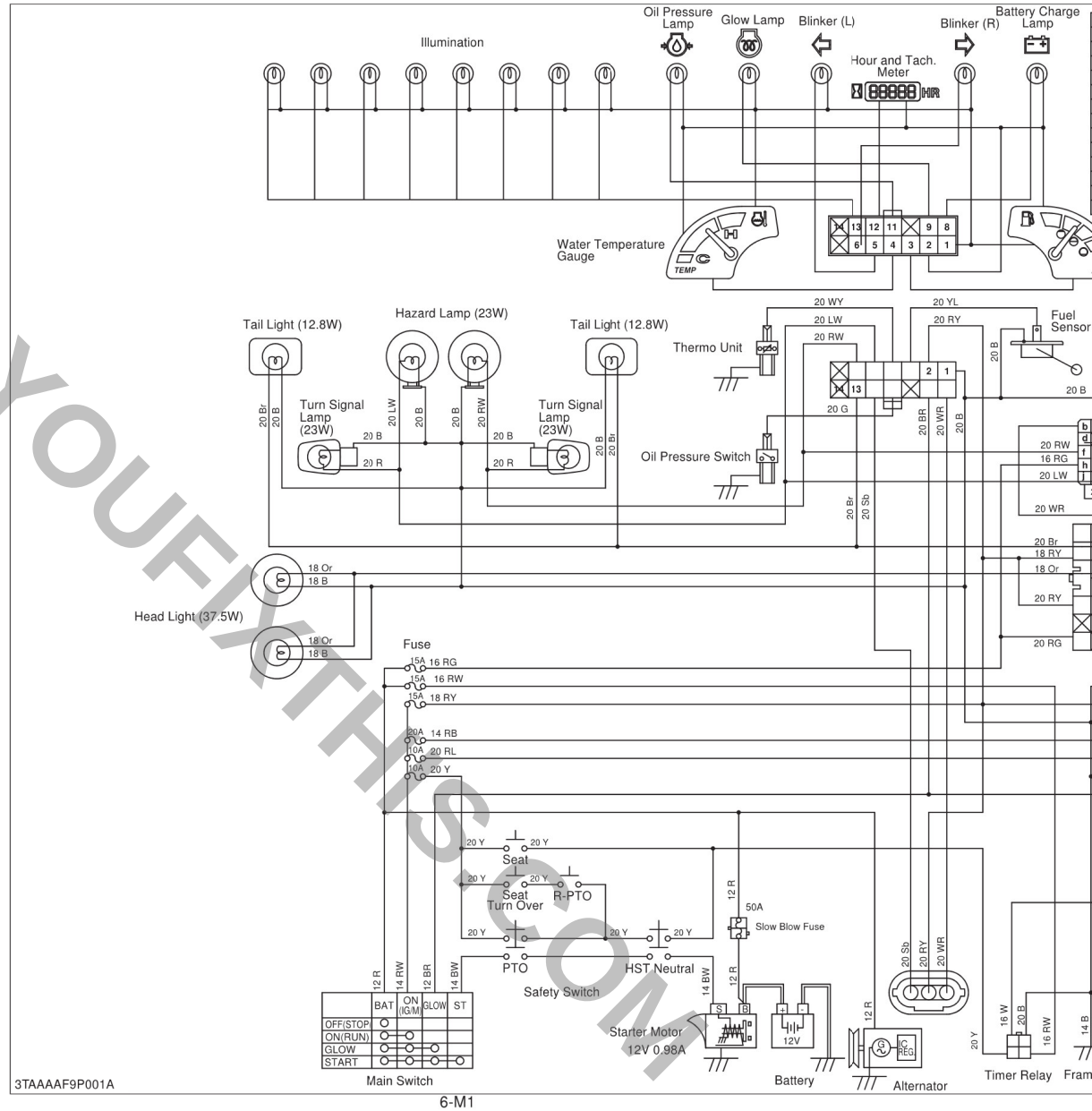
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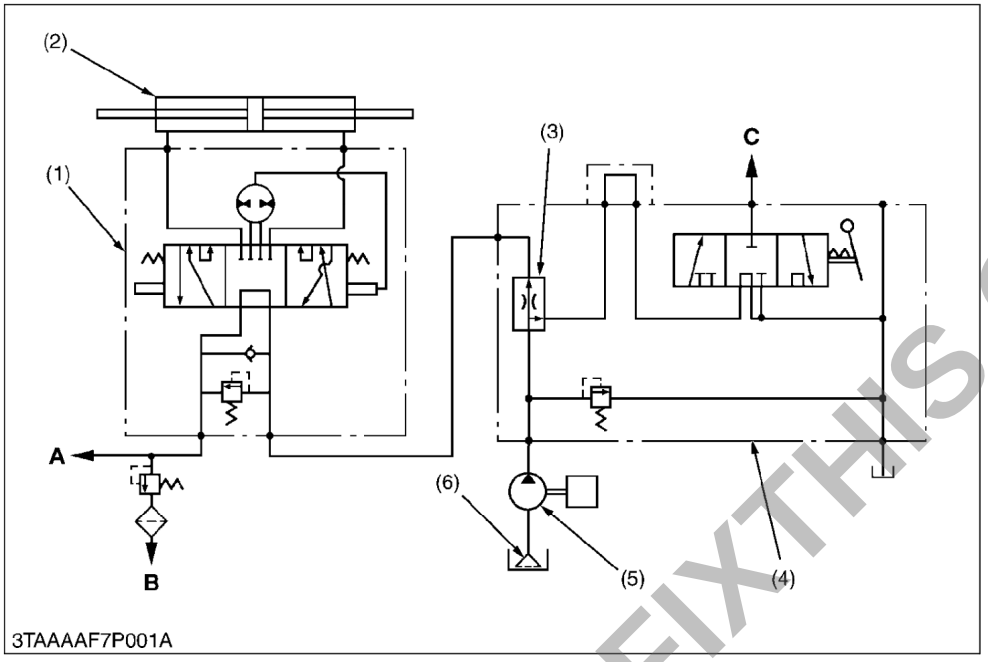
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1. WIRING DIAGRAM (TYPE 1 : WITHOUT OPC TIMER)



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1. HYDRAULIC CIRCUIT



(1) Steering Controller
(2) Steering Cylinder
(3) Flow Priority Valve
(4) Hydraulic Control Valve Assembly
(5) Hydraulic Pump
(6) Oil Strainer

A : To PTO Clutch Valve
B : To HST
C : To Hydraulic Cylinder

W1012655

This model is provided with a full hydrostatic power steering.

In the full hydrostatic power steering, the steering controller is connected to the steering cylinder with only the hydraulic piping. Accordingly, it does not have mechanical transmitting parts such as steering gear, pitman arm, drag link, etc.. Therefore, it is simple in construction. This steering system consists of the oil strainer (6), hydraulic pump (5), flow priority valve (3), steering controller (1), steering cylinder (2), etc..

Flow priority valve (3) which located in the hydraulic control valve assembly (4) divides the oil into two direction. One is the control flow to power steering (constantly 9.5 L/min., 2.5 U.S.gals./min., 2.1 Imp.gals./min.), and the other is excessive flow to control valve of implement lift control.

By operating the power steering body, the required amount of oil is fed to the steering cylinder (2).

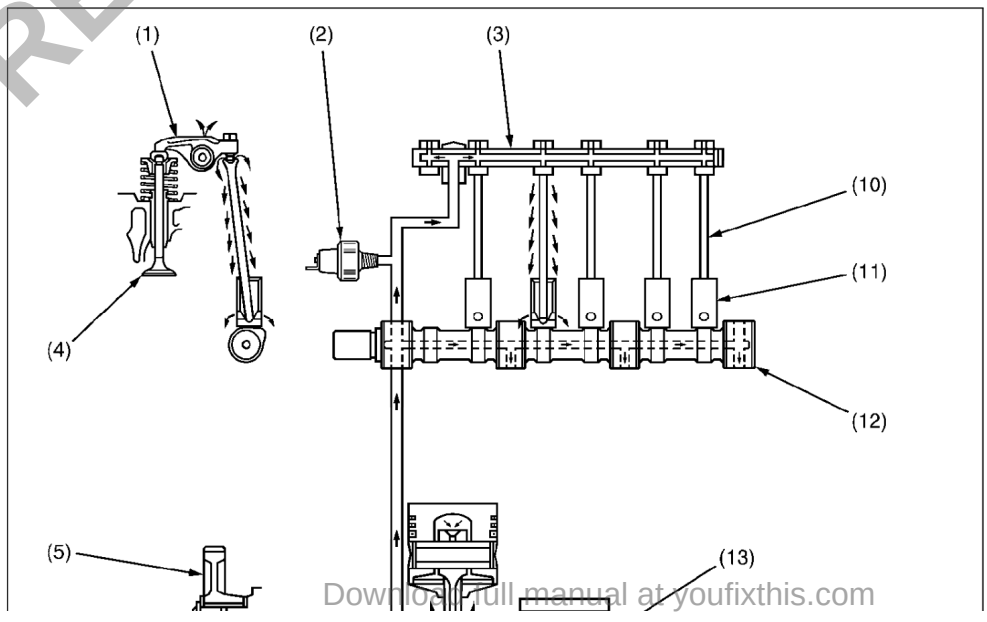
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1. LUBRICATING SYSTEM



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

W1014160

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

* KUBOTA original transmission hydraulic fluid.

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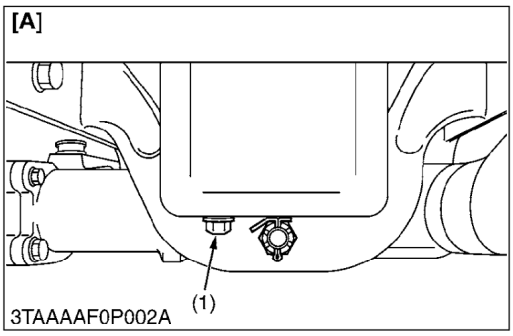
5. TIGHTENING TORQUES

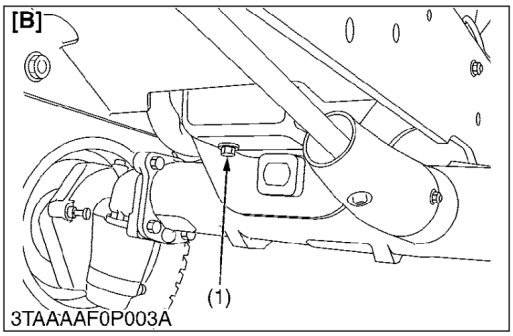
[1] GENERAL USE SCREWS, BOLTS AND NUTS

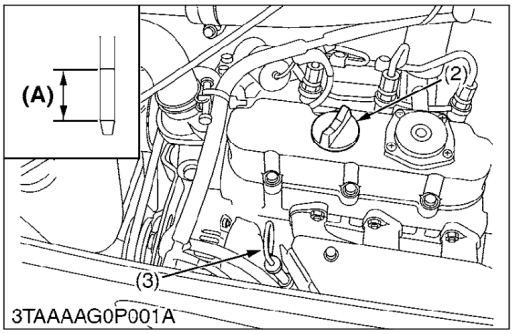
Screws, bolts and nuts whose tightening torques are not specified in this Workshop Manual should be tightened according to the table below.

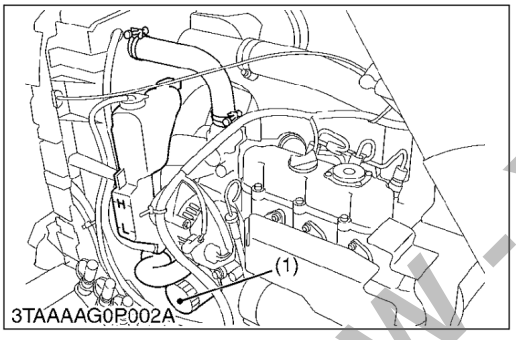
Indication on top of bolt	⬡ 4 No-grade or 4T						⬡ 7 7T						⬡ 9 9T		
Material of bolt	SS400, S20C						S43C, S48C						SCr435, SCM435		
Material of opponent part	Ordinariness			Aluminum			Ordinariness			Aluminum			Ordinariness		
Unit / Diameter	N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs
M6 (6 mm, 0.24 in.)	7.85 to 9.31	0.80 to 0.95	5.79 to 6.87	7.85 to 8.82	0.80 to 0.90	5.79 to 6.50	9.81 to 11.2	1.00 to 1.15	7.24 to 8.31	7.85 to 8.82	0.80 to 0.90	5.79 to 6.50	12.3 to 14.2	1.25 to 1.45	9.05 to 10.4
M8 (8 mm, 0.31 in.)	17.7 to 20.5	1.8 to 2.1	13.1 to 15.1	16.7 to 19.6	1.7 to 2.0	12.3 to 14.4	23.6 to 27.4	2.4 to 2.8	17.4 to 20.2	17.7 to 20.5	1.8 to 2.1	13.1 to 15.1	29.5 to 34.3	3.0 to 3.5	21.7 to 25.3
M10 (10 mm, 0.39 in.)	39.3 to 45.1	4.0 to 4.6	29.0 to 33.2	31.4 to 34.3	3.2 to 3.5	23.2 to 25.3	48.1 to 55.8	4.9 to 5.7	35.5 to 41.2	39.3 to 44.1	4.0 to 4.5	29.0 to 32.5	60.9 to 70.6	6.2 to 7.2	44.9 to 52.0
M12 (12 mm, 0.47 in.)	62.8 to 72.5	6.4 to 7.4	46.3 to 53.5	–	–	–	77.5 to 90.2	7.9 to 9.2	57.2 to 66.5	62.8 to 72.5	6.4 to 7.4	46.3 to 53.5	103 to 117	10.5 to 12.0	76.0 to 86.7
M14	108	11.0	79.6				124	12.6	91.2				167	17.0	123

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Changing Engine Oil

CAUTION

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

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

■ IMPORTANT

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

Engine oil capacity	BX1850	2.9 L 3.1 U.S.qts 2.6 Imp.qts
	BX2350	3.1 L 3.3 U.S.qts 2.7 Imp.qts

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

[A] BX1850
[B] BX2350
(A) Oil level is acceptable within this range.

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Replacing Engine Oil Filter

CAUTION

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

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

■ IMPORTANT

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

(1) Engine Oil Filter Cartridge

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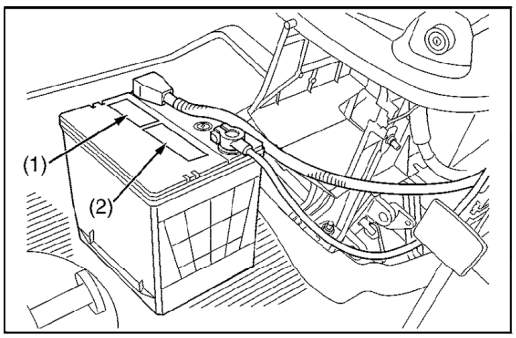
1. TROUBLESHOOTING

Symptom	Probable Cause	Solution	Reference Page
Engine Does Not Start	No fuel	Replenish fuel	G-7
	Air in the fuel system	Bleed	G-30
	Water in the fuel system	Change fuel and repair or replace fuel system	–
	Fuel pipe clogged	Clean	G-25
	Fuel filter clogged	Change	G-25
	Excessively high viscosity of fuel or engine oil at low temperature	Use specified fuel or engine oil	G-7
	Fuel with low cetane number	Use specified fuel	G-7
	Fuel leak due to loose injection pipe retaining nut	Tighten retaining nut	1-S26
	Incorrect injection timing	Adjust	1-S17
	Fuel camshaft worn	Replace	1-S35
	Injection nozzle clogged	Clean or replace	1-S26
	Injection pump malfunctioning	Replace	1-S31
	Seizure of crankshaft, camshaft, piston, cylinder or bearing	Repair or replace	1-S34
	Compression leak from cylinder	Replace head gasket, tighten cylinder head screw, glow plug and nozzle holder	1-S26, S27
	Improper valve timing	Correct or replace timing gear	1-S34
	Piston ring and cylinder worn	Replace	1-S35 to S37
	Excessive valve clearance	Adjust	1-S13
Starter Does Not Run	Battery discharged	Charge	G-17
	Starter malfunctioning	Repair or replace	6-S27
	Main switch malfunctioning	Repair or replace	6-S9
	Safety switches malfunctioning	Adjust or replace	6-S11, S12
	Wiring disconnected	Connect	–
Engine Revolution Is Not Smooth	Fuel filter clogged or dirty	Replace	G-25
	Air cleaner clogged	Clean or replace	G-18
	Fuel leak due to loose injection pipe retaining nut	Tighten retaining nut	1-S26
	Injection pump malfunctioning	Replace	1-S31
	Incorrect nozzle injection pressure	Adjust	1-S20
	Injection nozzle stuck or clogged	Repair or replace	1-S26
	Governor malfunctioning	Repair	1-S30

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CARES FOR SAFETY ALERT LABELS

1. Always keep the labels clean and avoid damaging them.
   If a label is dirty, clean it with soap and water. Then wipe it with a soft cloth.
   Never use a solvent like thinner or acetone, which may erase letters or symbols.
2. When you wash the machine using a high pressure washer, do not pour high pressure water directly on any label to prevent it from peeling off.
3. If any label is damaged or missing, place an order with your dealer for replacement.
4. Before you affix a new label, completely clean the surface on which the label is placed. Wait until the surface is dry, and then affix
5. the label in its place.
   When you replace any part carrying a label, replace the label with a new one at the same time.

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SPECIFICATIONS

Model		BX1850	BX2350
PTO power		10.2 kW (13.7 HP)*	13.2 kW (17.7 HP)*
Engine	Maker	KUBOTA	
	Model	D722-E2-BX-2	D902-E2-BX-2
	Type	Indirect Injection, vertical, water-cooled, 4-cycle diesel	
	Number of cylinders	3	
	Bore and stroke	67 × 68 mm (2.64 × 2.68 in.)	72 × 73.6 mm (2.83 × 2.90 in.)
	Total displacement	719 cm^3 (43.9 cu.in.)	898 cm^3 (54.8 cu.in.)
	Engine gross power	13.4 kW (18.0 HP)	17.1 kW (23.0 HP)
	Rated revolution	53.3 r/s [3200 min^{-1} (rpm)]	
	Maximum torque	44.9 N·m (4.6 kgf·m, 33.1 ft-lbs)	56.1 N·m (5.7 kgf·m, 41.4 ft-lbs)
	Battery	12 V, CCA : 435 A, RC : 62 min.	12 V, CCA : 535 A, RC : 80 min.

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[4] PLUGS

Shape	Size	Material of opponent part					
		Ordinariness			Aluminum		
		N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs
Tapered screw 	R1/8	13 to 22	1.3 to 2.2	9.6 to 16.2	10 to 12	1.0 to 1.2	7.4 to 8.9
	R1/4	29 to 44	3.0 to 4.5	21.4 to 32.5	20 to 29	2.0 to 3.0	14.8 to 21.4
Straight screw 	G1/4	29 to 39	3.0 to 4.0	21.4 to 28.8	–	–	–
	G3/8	49 to 59	5.0 to 6.0	36.1 to 43.5	–	–	–
	G1/2	59 to 78	6.0 to 8.0	43.5 to 57.5	–	–	–

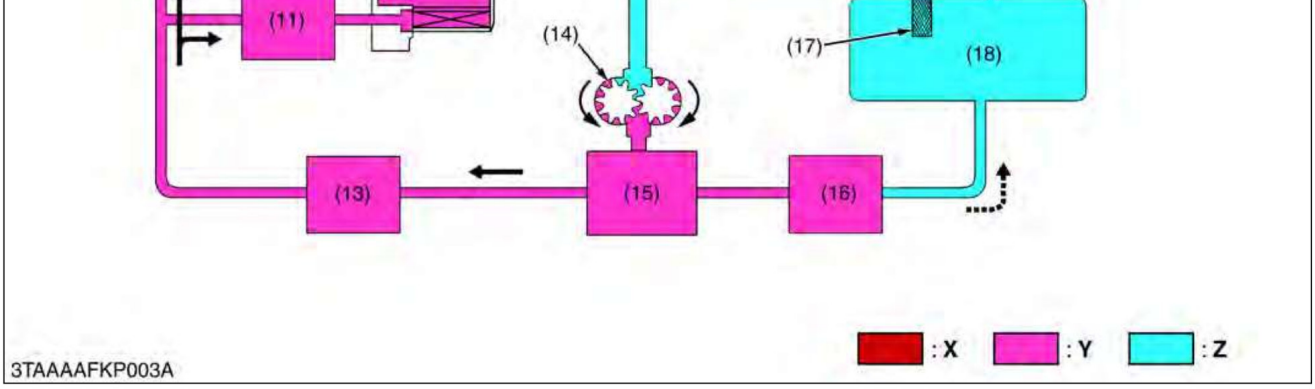
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6. MAINTENANCE CHECK LIST

No.	Item \ Period		Service Interval																	After purchase		Important		Reference page
			50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	1500	3000	1 year	2 years		
1	Engine oil	Change	★	☆		☆		☆		☆		☆		☆		☆		☆							G-12
2	Engine oil filter	Replace	★			☆				☆				☆				☆							G-12
3	Transmission oil filter	Replace	★					☆						☆											G-13
4	Transmission fluid	Change	★					☆						☆											G-13
5	Transmission strainer	Clean						☆						☆											G-24
6	Front axle case oil	Change						☆						☆											G-24
7	Front axle pivot	Adjust								☆								☆							G-25

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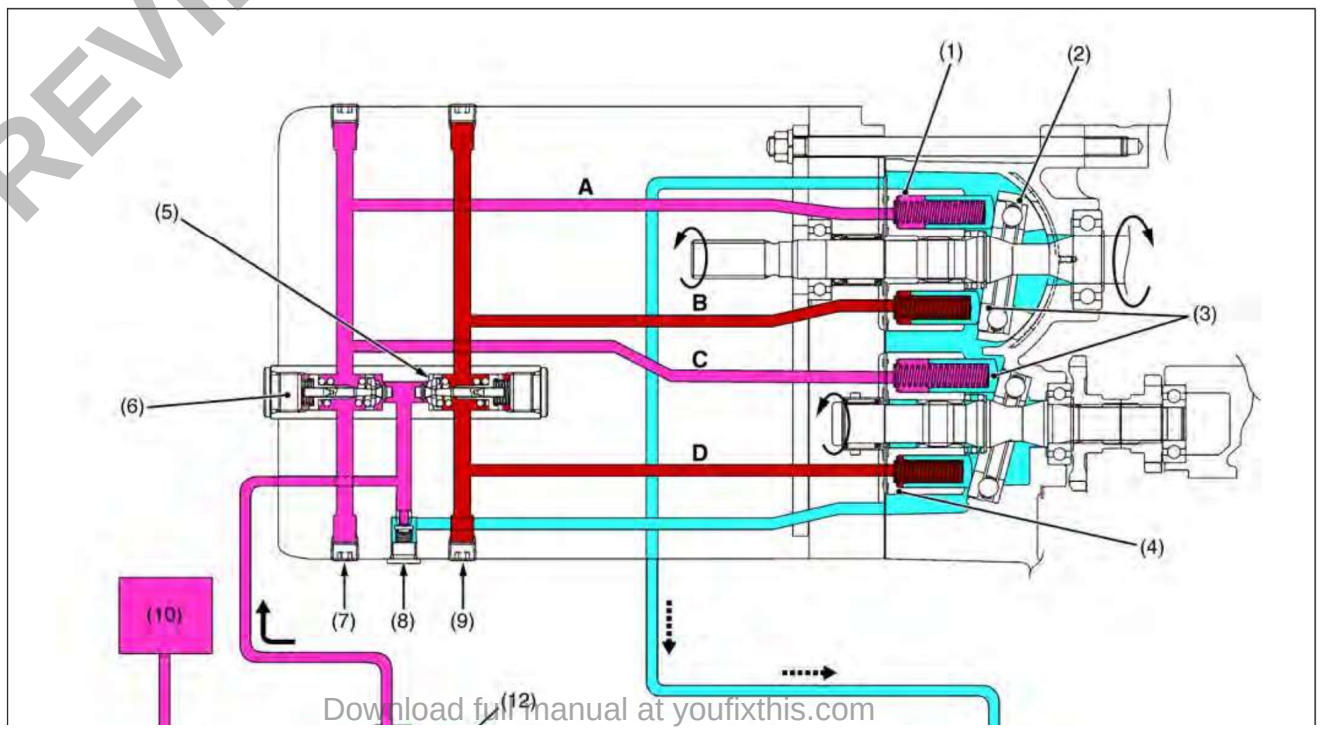
(1) Cylinder Block (Pump)
(2) Swashplate
(3) Piston
(4) Cylinder Block (Motor)
(5) Check and High Pressure Relief Valve (Forward)
(6) Check and High Pressure Relief Valve (Reverse)
(7) High Pressure Relief Port Plug (Forward)
(8) Charge Relief Valve
(9) High Pressure Relief Port Plug (Reverse)
(10) PTO Clutch Valve
(11) PTO Relief Valve
(12) Oil Filter Cartridge
(13) Power Steering Controller
(14) Hydraulic Pump
(15) Flow Priority Valve (Hydraulic Control Valve)
(16) Position Control Valve
(17) Oil Strainer
(18) Transmission Case

A : A Port
B : B Port
C : C Port
D : D Port
X : High Pressure
Y : Low Pressure
Z : Free Oil

When the speed control pedal is in neutral, the variable swashplate is not tilted as shown in figure above. The pump pistons only rotate with cylinder block without reciprocating. Since the oil is not being pumped to the motor, the cylinder block in the motor is stationary and the output shaft does not move.

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■ Forward



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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.

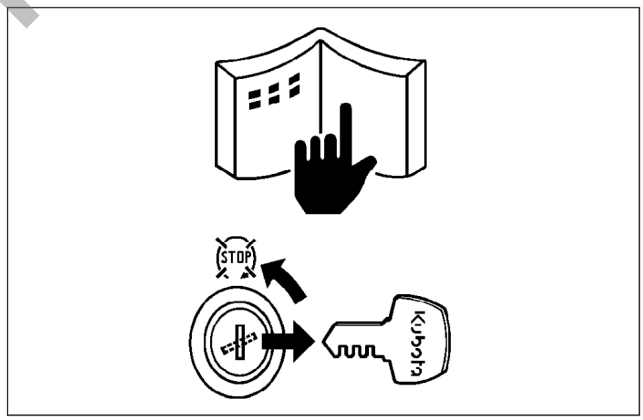
⚠ DANGER : Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠ 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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(2) Rear Wheels

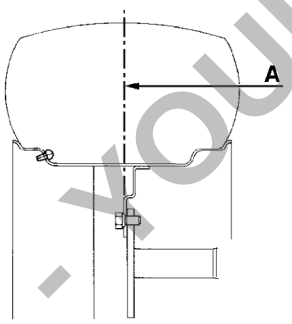
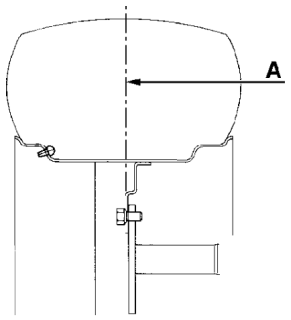
Rear tread can not be adjusted.

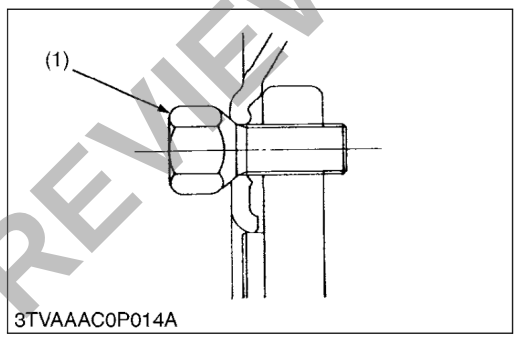
■ **IMPORTANT**

- **Do not turn discs to obtain wider tread.**
- **Always attach tires as shown in the drawing.**
- **If not attached as illustrated, transmission parts may be damaged.**
- **When re-fitting or adjusting a wheel, tighten the bolts to the following torques then recheck after driving the tractor 200 m (200 yards) and thereafter daily check service.**

■ **NOTE**

- **Use the tapered bolts for wheels with beveled or tapered holes.**

Models	BX1850	BX2350
Tire	16 × 7.50 – 8 Turf, 16 × 7.50 – 8 Bar	26 × 12.00 – 12 Turf, 26 × 12.00 – 12 Bar, 26 × 12.00 – 12 Ind.
Tread	 3TAAAAG0P006B	 3TAAAAG0P006B



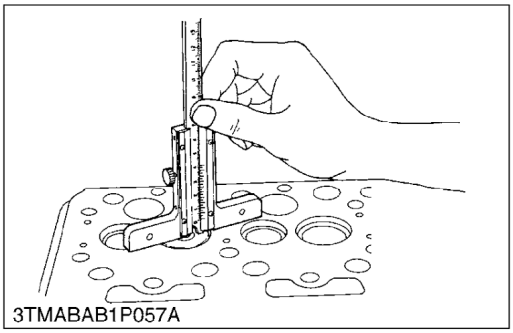
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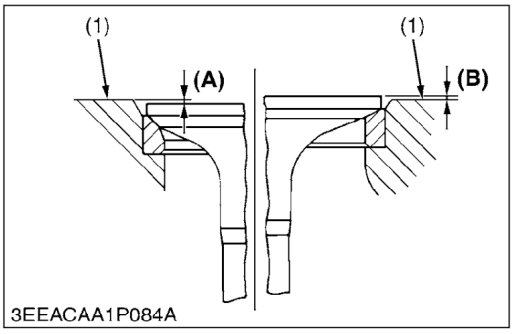
Tightening torque	Rear wheel	108.5 to 130.2 N·m 11.1 to 13.3 kgf·m 80 to 96 ft-lbs

(1) Wheel Mounting Screw **A : 820 mm (32.2 pouces)**

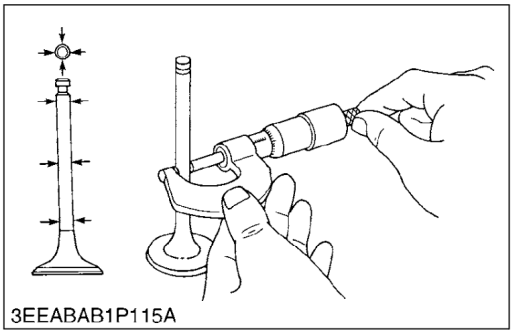
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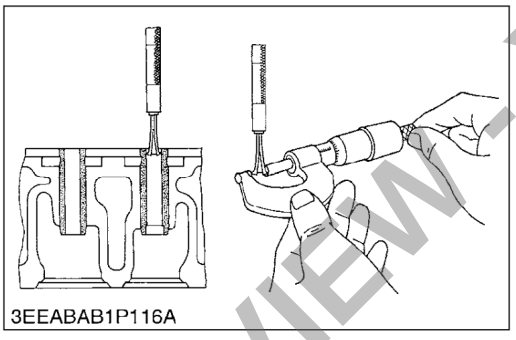
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3TMABAB1P057A



3EEACAA1P084A


3EEABAB1P115A


3EEABAB1P116A

Valve Recessing

1. Clean the cylinder head surface, valve face and valve seat.
2. Insert the valve into the valve guide.
3. Measure the valve recessing with a depth gauge.
4. If the measurement exceeds the allowable limit, replace the valve.
5. If it still exceeds the allowable limit after replacing the valve, replace the cylinder head.

Valve recessing (Intake and exhaust)	Factory spec.	0.10 (protrusion) to 0.10 (recessing) mm 0.0039 (protrusion) to 0.0039 (recessing) in.
	Allowable limit	0.30 (recessing) mm 0.0118 (recessing) in.

(1) Cylinder Head Surface
(A) Recessing
(B) Protrusion

W10768800

Clearance between Valve Stem and Valve Guide

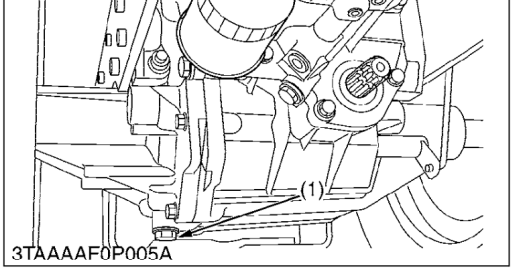
1. Remove carbon from the valve guide section.
2. Measure the valve stem O.D. with an outside micrometer.
3. Measure the valve guide I.D. with a small hole gauge, and calculate the clearance.
4. If the clearance exceeds the allowable limit, replace the valves. If it still exceeds the allowable limit, replace the valve guide.

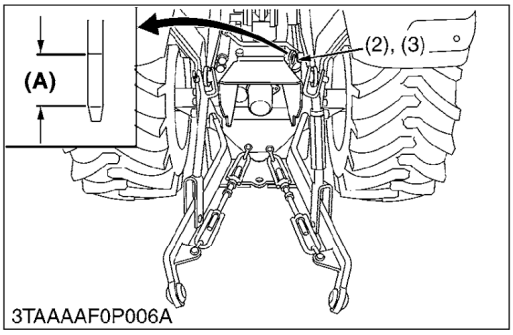
Clearance between valve stem and valve guide	Factory spec.	0.030 to 0.057 mm 0.00118 to 0.00224 in.
	Allowable limit	0.10 mm 0.0039 in.
Valve stem O.D.	Factory spec.	5.968 to 5.980 mm 0.23496 to 0.23543 in.
Valve guide I.D.	Factory spec.	6.010 to 6.025 mm 0.23661 to 0.23720 in.

W10311740

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CAUTION

- **Be sure to stop the engine before checking and changing the transmission fluid.**

1. Place oil pan under the tractor.
2. Remove the drain plug (1) at the bottom of the transmission case.
3. Drain the transmission fluid and reinstall the drain plug.

(When refilling)

- Fill new oil from filling port after removing the filling plug (2) up to the upper notch on the dipstick (3).
- After running the engine for few minutes, stop it and check the oil level again, if low, add oil to prescribed level.

■ IMPORTANT

- **Use only multi-grade transmission oil. Use of other oils may damage the transmission or hydraulic system. Refer to "LUBRICANTS, FUEL AND COOLANT". (See page G-7.)**
- **Never work the tractor immediately after changing the transmission oil. Keeping the engine at medium speed for a few minutes to prevents damage to the transmission.**
- **Do not mix different brands oil together.**

Transmission fluid capacity	11.6 L 3.1 U.S.gals 2.6 Imp.gals

(1) Drain Plug
(2) Filling Plug
(3) Dipstick
(A) Oil level is acceptable within this range

W1014039

Battery





CAUTION

- **When disconnecting the battery cables, disconnect the negative cable from the battery first. When connecting, connect the positive cable to the battery first.**

1. Remove the under panel.
2. Disconnect the negative cable (2) from the battery.
3. Disconnect the positive cable (3) form the battery (1) and remove the battery (1).

(1) Battery
(2) Negative Cable
(3) Positive Cable

W1032888

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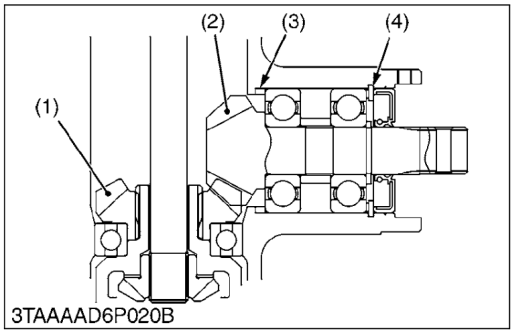


Lift Rod and Lower Link

1. Remove the top link (2).
2. Remove the stopper pin (6) and remove the check chain plate

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3TAAAAF6P022A



3TAAAAD6P020B

2. Fix the bevel gear and rotate the bevel pinon shaft carefully.
3. Measure the backlash by thickness of the point where solder is the thinnest.
4. If the backlash is not within the factory specifications, change the adjusting collars (3), shims (4). For example change the adjusting shim (4) to 0.1 mm (0.004 in.) smaller size, and change the adjusting collar (3) to 0.1 mm (0.004 in.) larger size.
5. Adjust the backlash properly by repeating the above procedures.

Backlash between bevel pinion shaft and bevel gear	Factory spec.	0.1 to 0.3 mm 0.004 to 0.012 in.

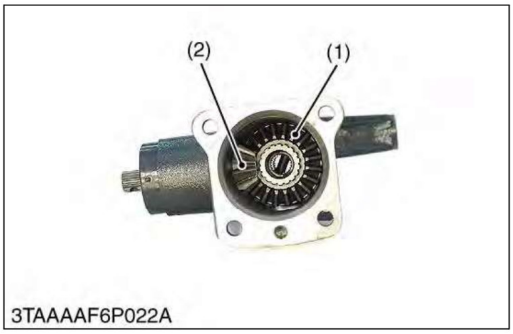
(Reference)

- Above factory specification should be measured on the tooth of bevel pinion. When measuring the backlash on the spline of its shaft, factory specification will be 0.0571 to 0.1714 mm (0.00225 to 0.00675 in.).
- Thickness of adjusting collars (3) :
  3.4 mm (0.134 in.) 4.1 mm (0.161 in.)
  3.6 mm (0.142 in.) 4.2 mm (0.165 in.)
  3.8 mm (0.150 in.) 4.4 mm (0.173 in.)
  3.9 mm (0.154 in.) 4.5 mm (0.177 in.)
  4.0 mm (0.157 in.) 4.6 mm (0.181 in.)
- Thickness of adjusting collars (4) :
  0.6 mm (0.024 in.) 1.2 mm (0.047 in.)
  0.8 mm (0.031 in.) 1.4 mm (0.055 in.)
  1.0 mm (0.039 in.) 1.6 mm (0.063 in.)

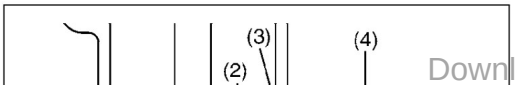
(1) Bevel Gear
(2) Bevel Pinion Shaft
(3) Adjusting Collar
(4) Adjusting Collar

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Backlash between Bevel Pinion Shaft and Bevel Gear [BX2350]

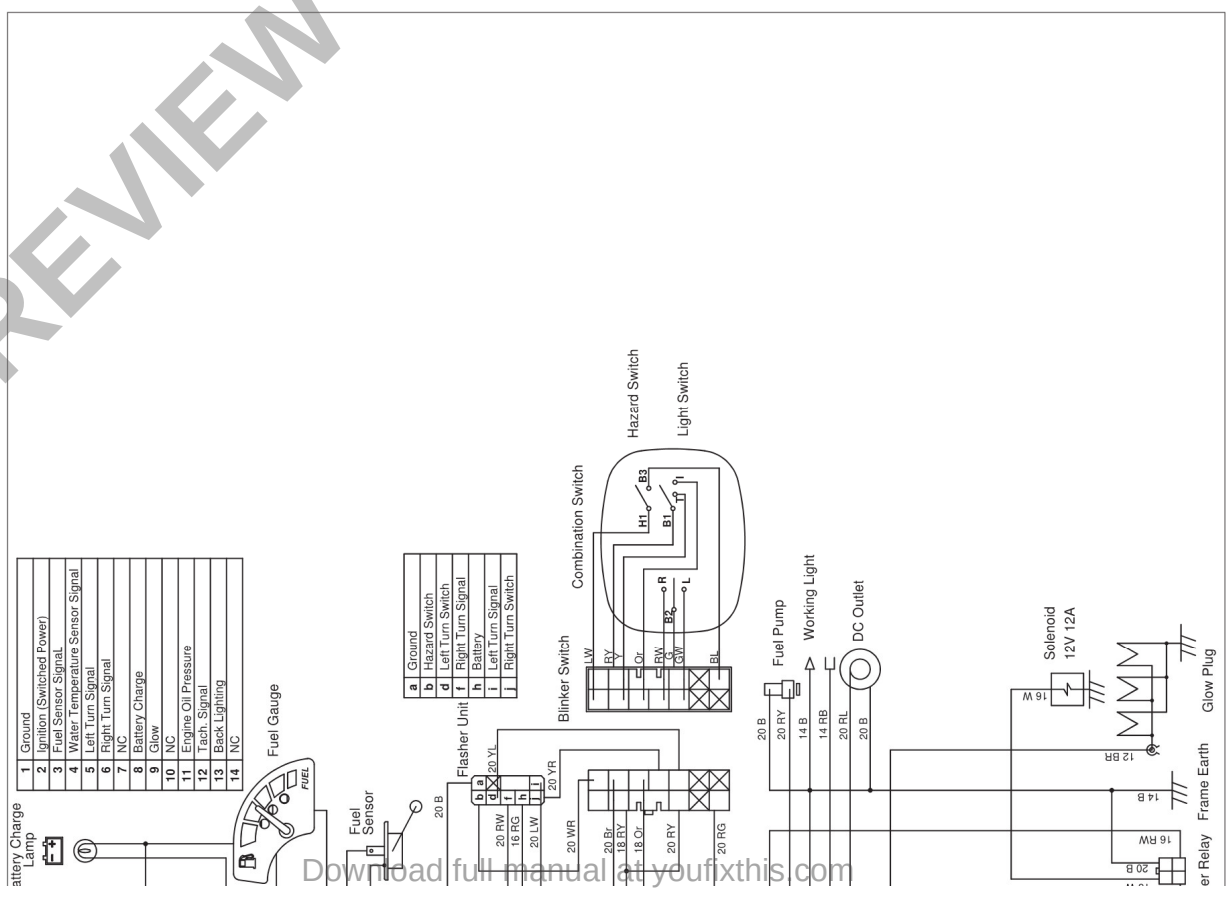
1. Put the solder (0.5 mm (0.020 in.) thickness) on the position where the tooth proper contact of bevel pinion shaft.
2. Fix the bevel gear and rotate the bevel pinon shaft carefully.
3. Measure the backlash by thickness of the point where solder is the thinnest.
4. If the backlash is not within the factory specifications, change the adjusting collars (3), shims (4). For example change the adjusting shim (4) to 0.1 mm (0.004 in.) smaller size, and change the adjusting collar (3) to 0.1 mm (0.004 in.) larger size.
5. Adjust the backlash properly by repeating the above procedures.

Backlash between bevel pinion shaft and bevel gear	Factory spec.	0.1 to 0.3 mm 0.004 to 0.012 in.

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[4] WATER TEMPERATURE GAUGE 6-M12
6. OTHERS 6-M13
[1] DC OUTLET 6-M13

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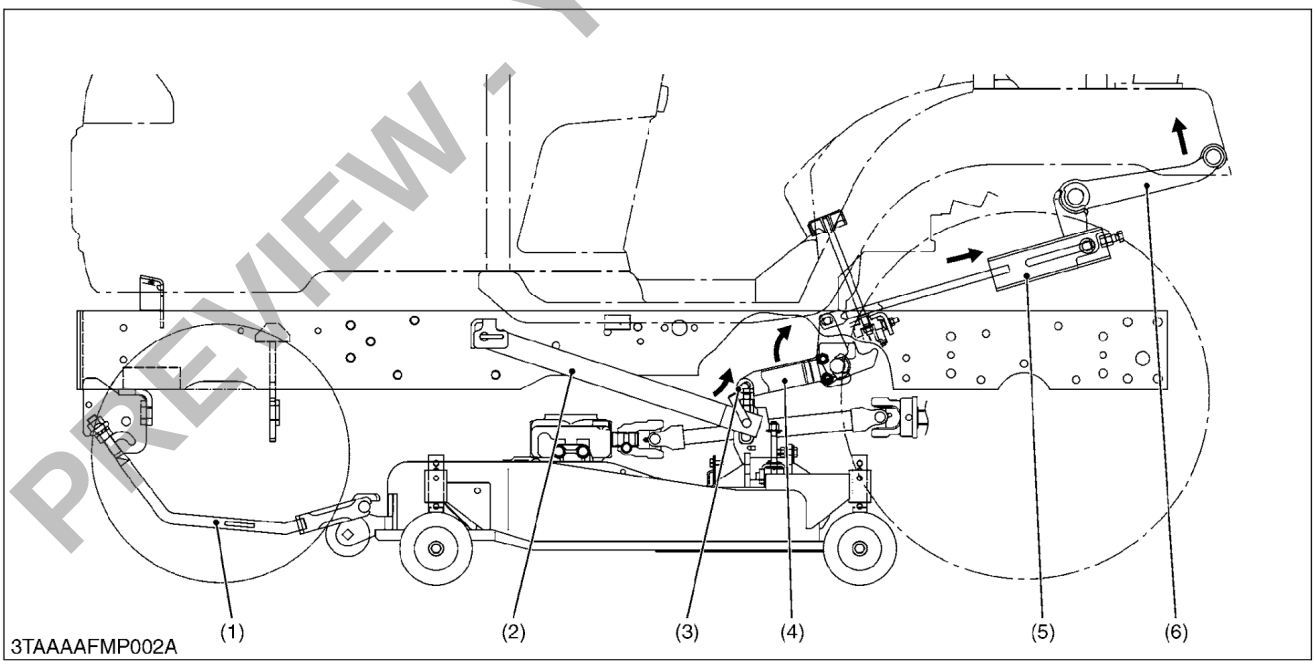
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■ **Outer Blade**

Mid-PTO Shaft (5) → Universal Joint (4) → Pinion Shaft (3) → Bevel Gear (1) → Bevel Gear (2) → Bevel Gear Shaft (8) → Center Pulley (7) → Mower Belt (9) → Outer Pulley (11) → Blade Shaft (10) → Outer Blade (12)

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2. LIFTING MECHANISM



(1) Front Link
(2) Rear Link
(3) Lift Link
(4) Rear Lift Link (RH)
(5) Rear Lift Link (LH)
(6) Lift Arm

The lifting of mower is performed by the hydraulic system installed on the tractor.

The mower should be kept lift when traveling. When the position control lever is moved to **"LIFT"** position, the lift arm (6) is lifted up by the oil pressure of hydraulic system, and the rear lift link (LH) (5) is pulled rearward.

Therefore, rear lift links (4), (5) rotate and the mower is lifted by the lift links (3) and rear links (2).

As this link system is a parallel linkage, the mower can be kept parallel at every position.

CAUTION

- **Never operate mower in transport position**

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