B2301, B2601, WSM INFORMATION

3. SPECIFICATIONS

	Model		B2301	B2601			
PTO power *1			17.5 kW (13.0 HP)	19.5 kW (14.5 HP)			
	Maker		KUBC	DTA			
	Model		D1005-E4-D32	D1105-E4-D32			
Engine Capacities Dimensions Weight Clutch Traveling system Hydraulic unit	Туре		E-TVCS. Liquid-cooled, 3-cylinder diesel				
	Number of cylin	nders	3				
	Bore and strok	е	76 × 73.6 mm (3.0 × 2.9 in.)	78 × 78.4 mm (3.1 × 3.1 in.)			
Engine	Total displacen	nent	1001 cc (61.1 cu.in.)	1123 cc (68.5 cu.in.)			
	Engine gross p	ower *1	22 kW (16.4 HP)	25.5 kW (19.0 HP)			
	Rated revolution	on	2800 min				
	Low idling revo		1000 to 1100	min ⁻¹ (rpm)			
	Maximum torqu	ue	60 N·m (6.1 kgf·m, 44 lbf·ft)	71 N·m (7.2 kgf·m, 52 lbf·ft)			
	Battery		12 V, RC: 80 mir	n, CCD: 430 A			
	Fuel tank		23 L (6.1 U.S.gals				
Canacities	Engine crankca		3.1 L (3.3 U.S.qt				
Capacitics	Engine coolant	t	3.8 L (4.0 U.S.qts, 3.3 Imp.qts)				
	Transmission of		15 L (4.0 U.S.gal				
	Overall length	`	2380 mm (93.7 in.)	2410 mm (94.9 in.)			
Dimensions V	Overall width (min. tread)		1150 mm (45.3 in.)	1245 mm (49.0 in.)			
	Overall height		2130 mm (83.9 in.) 2160 mm (85.0 in.)				
	Wheel base		1560 mm (,			
	Minimum ground clearance		305 mm (12.0 in.)	325 mm (12.8 in.)			
	Tread Front		800 mm (31.5 in.)	815 mm (32.1 in.)			
		Rear	900 mm (35.5 in.)	950 mm (37.4 in.)			
			710 kg (1566 lbs)	740 kg (1632 lbs)			
Clutch	1	1	Not appl				
	Tires	Front	6-12	7-12			
		Rear	9.5-16	11.2-16			
Traveling	Steering		Hydraulic type p				
system	Transmission		HST (3 r				
	Brake	aa radiua (with	Wet disl	к туре			
	Minimum turnir brake)	,	2.1 m (6.				
	Hydraulic contr	•	Position Control Valve				
	Pump capacity	,	31.4 L/min (8.3 gals/min)				
Hydraulic unit	3-point hitch		SAE Category 1				
Hydraulic unit		At lift points	820 kg (18	808 lbs)			
	Max. lift force	24 in. behind lift point	640 kg (1	411 lbs)			
	Rear-PTO		SAE 1-3/8,	6 splines			
Traveling system E M b Hydraulic unit F F F F F F F F F F F F F		PTO / Engine speed	540 min ⁻¹ (rpm) / 2	2768 min ⁻¹ (rpm)			
PIO	Mid-PTO		USA No.5 (KUBOTA 10	-tooth) involute spline			
		PTO / Engine speed	2500 min ⁻¹ (rpm) /	2753 min ⁻¹ (rpm)			
l	1	1 *					

■ NOTE

The company reserves the right to change the specifications without notice.

9Y1211156INI0001US0

 ^{*} Manufacturer's estimate

B2301, B2601, WSM GENERAL

5. TIGHTENING TORQUES

Tighten screws, bolts and nuts whose tightening torques are not specified in this Workshop Manual according to the table below.

WSM000001GEG0116US0

[1] GENERAL USE SCREWS, BOLTS AND NUTS

Indication on top of bolt			4	lo-grad	de or 41	г			7) 7Т			[9 9	т
Indication on top of nut		No-grade or 4T													
Material of opponent part	Or	dinarine	ess	Α	luminu	m	Or	dinarin	ess	Α	luminu	m	Or	dinarin	ess
Unit	N⋅m	kgf⋅m	lbf∙ft	N∙m	kgf∙m	lbf∙ft	N∙m	kgf∙m	lbf∙ft	N⋅m	kgf∙m	lbf∙ft	N⋅m	kgf∙m	lbf∙ft
	7.9	0.80	5.8	7.9	0.80	5.8	9.81	1.00	7.24	7.9	0.80	5.8	12.3	1.25	9.05
M6	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
	9.3	0.95	6.8	8.8	0.90	6.5	11.2	1.15	8.31	8.8	0.90	6.5	14.2	1.45	10.4
	18	1.8	13	17	1.7	13	24	2.4	18	18	1.8	13	30	3.0	22
M8	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
	20	2.1	15	19	2.0	14	27	2.8	20	20	2.1	15	34	3.5	25
	40	4.0	29	32	3.2	24	48	4.9	36	40	4.0	29	61	6.2	45
M10	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
	45	4.6	33	34	3.5	25	55	5.7	41	44	4.5	32	70	7.2	52
	63	6.4	47				78	7.9	58	63	6.4	47	103	10.5	76.0
M12	to 72	to 7.4	to 53	-	_	_	to 90	to 9.2	to 66	to 72	to	to 53	to 117	to	to
								_		12	7.4	53		12.0	86.7
M14	108	11.0	79.6				124	12.6 to	91.2				167	17.0 to	123
W14	to 125	to 12.8	to 92.5	_	_	_	to 147	15.0	to 108	_	_	_	to 196	20.0	to 144
	167	17.0	123				197	20.0	145				260	26.5	192
M16	to	to	to	_		_	to	20.0 to	to	_		_	to	20.5 to	to
WITO	191	19.5	141	_	_	_	225	23.0	166	_	_	_	304	31.0	224
	246	25.0	181				275	28.0	203				344	35.0	254
M18	to	to	to	_	_	_	to	to	to	_	_	_	to	to	to
	284	29.0	209				318	32.5	235				402	41.0	296
	334	34.0	246				368	37.5	272				491	50.0	362
M20	to	to	to	_	_	_	to	to	to	_	_	_	to	to	to
1	392	40.0	289				431	44.0	318				568	58.0	419

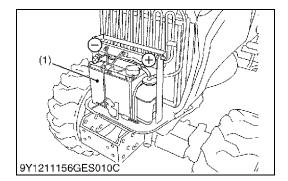
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[2] STUD BOLTS

Material of opponent part	Or	dinarin	ess	Α	luminu	m
Unit	N⋅m	kgf∙m	lbf∙ft	N∙m	kgf∙m	lbf∙ft
	12	1.2	8.7	8.9	0.90	6.5
M8	to	to	to	to	to	to
	15	1.6	11	11	1.2	8.6
	25	2.5	18	20	2.0	15
M10	to	to	to	to	to	to
	31	3.2	23	25	2.6	18
	30	3.0	22			
M12	to	to	to	31	3.2	23
	49	5.0	36			
	62	6.3	46			
M14	to	to	to	_	_	_
	73	7.5	54			
	98.1	10.0	72.4			
M16	to	to	to	_	_	_
	112	11.5	83.1			
	172	17.5	127			
M18	to	to	to	_	_	_
	201	20.5	148			

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B2301, B2601, WSM GENERAL



Battery Charging



WARNING

To avoid personal injury or death:

- When the battery is being activated, hydrogen and oxygen gases in the battery are extremely explosive. Keep open sparks and flames away from the battery at all times, especially when charging the battery.
- When charging the battery, ensure the vent caps are securely in place. (if equipped)
- When disconnecting the cable from the battery, start with the negative terminal first.
 - When connecting the cable to the battery, start with the positive terminal first.
- Never check battery charge by placing a metal object across the posts.

Use a voltmeter or hydrometer.

- 1. To slow charge the battery, connect the battery positive terminal to the charger positive terminal and the negative to the negative, then recharge in the standard fashion.
- 2. A boost charge is only for emergencies. It will partially charge the battery at a high rate and in a short time.
 - When using a boost-charged battery, it is necessary to recharge the battery as early as possible.
 - Failure to do this will shorten the battery's service life.
- The battery is charged if the indicator display turns green from black
- 4. When exchanging an old battery into new one, use battery of equal specification shown in table 1.

Table 1

Battery Type	Volt (V)	Capacity at 5 H.R.	Reserve at (min.)	Cold Cranking Amps (A)	Normal Charging Rate (A)
55B24L (S)-MF	12	36	80	430	4.5

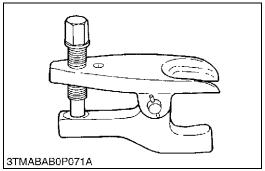
■ Direction for Storage

- 1. When storing the tractor for long periods of time, remove the battery from tractor, adjust the electrolyte to the proper level and store in a dry place out of direct sunlight.
- The battery self-discharges while it is stored.
 Recharge it once every three months in hot seasons and once every six months in cold seasons.
- (1) Battery

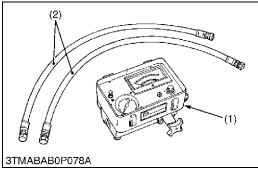
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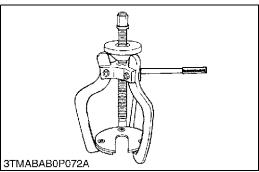
B2301, B2601, WSM **GENERAL**

SPECIAL TOOLS FOR TRACTOR



3TMABAB0P075A (10)3TMABAB0P077A





Tie-rod End Lifter

Code No.

• 07909-39051

Application

• Use to remove the tie-rod end with ease.

WSM000001GEG0029US0

Toe-in Gauge

Code No.

• 07909-31681

Application

• This allows easy measurement of toe-in for all machine models.

WSM000001GEG0034US0

Relief Valve Pressure Tester

Code No.

• 07916-50045

Application

- · This allows easy measurement of relief set pressure.
- (1) Gauge (07916-50322)
- Cable (07916-50331)
- (3) Threaded Joint (07916-50401)
- (4) Threaded Joint (07916-50341)
- (5) Adaptor **B** (M18 × P1.5) (07916-50361)
- (6) Adaptor **C** (PS3/8) (07916-50371)
- (7) Adaptor **D** (PT1/8) (07916-50381)
- (8) Adaptor **E** (PS3/8) (07916-50392)
- (9) Adaptor **F** (PF1/2) (07916-62601)
- (10) Adaptor 58 (PT1/4) (07916-52391)

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Flow Meter

Code No.

- 07916-52791 (Flow Meter)
- 07916-52651 (Hydraulic Test Hose)

Application

- This allows easy testing of hydraulic system.
- (1) Flow Meter

(2) Hydraulic Test Hose

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Steering Wheel Puller

Code No.

• 07916-51090

Application

· Use to remove the steering wheel without damage to the steering shaft.

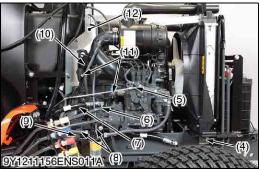
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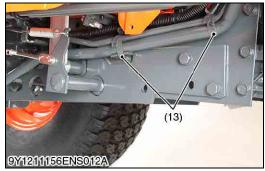
B2301, B2601, WSM ENGINE

Symptom	Probable Cause and Checking Procedure	Solution	Reference Page
Either Black or Dark	Low grade fuel used	Check fuel	G-8
Gray Exhaust Gas Is Observed	2. Fuel filter clogged	Solution order 1. Replace fuel filter	G-24
		2. Check or change fuel	G-8
	3. Air cleaner clogged	Clean or change air cleaner	G-23
	4. Deficient nozzle injection	Solution order 1. Inspect injection nozzle	1-S27
		2. Replace or clean injection nozzle	
Deficient Output	Incorrect injection timing	Solution order 1. Check injection timing	1-S17
		2. Adjust injection timing	
	Injection pump malfunctioning	Replace injection pump	1-S30
	3. Uneven fuel injection	Replace injection pump	1-S30
	Deficient nozzle injection	Solution order 1. Inspect injection nozzle	1-S17
		2. Replace or clean injection nozzle	
	5. Compression leak	Solution order 1. Check compression pressure	1-S12
		2. Check or replace head gasket	1-S27
		3. Inspect or replace piston or piston ring	1-S34, 1-S46
		4. Inspect or replace cylinder	1-S51
	Gas leak from exhaust system	Repair or replace exhaust system	1-S25
	7. Air cleaner dirty or clogged	Clean or change air cleaner	G-23
Excessive Lubricant Oil Consumption	Piston ring's gap facing the same direction	Repair piston ring gap	1-S46
	2. Oil ring worn or stuck	Solution order 1. Inspect piston ring and cylinder	1-S46, 1-S51
		2. Replace piston ring or cylinder	1-S34, 1-S51
	3. Piston ring groove worn	Replace piston	1-S44
	Valve stem and valve guide worn	Inspect or replace valve stem and valve guide	1-S38
	Crankshaft bearing and crank pin bearing worn	Inspect or replace crankshaft and crank pin	1-S47
Fuel Mixed into Lubricant Oil	Injection pump's plunger worn	Repair or replace injection pump	1-S30
	2. Deficient nozzle injection	Repair or replace nozzle	1-S20
	Injection pump broken	Replace injection pump	1-S30
Water Mixed into	Head gasket damaged	Replace head gasket	1-S27
Lubricant Oil	Cylinder block or cylinder head flawed	Replace cylinder head	1-S27

B2301, B2601, WSM **ENGINE**









Accelerator Rod, Power Steering Hose, Fuel Hoses, **Connectors and Others (Right Side)**

- 1. Remove the spring plates (1), oil cooler mounting bolts (2) and oil cooler (3).
- 2. Remove the clamp (4) and the accelerator rod (5).
- 3. Disconnect the power steering hose (7), hydraulic delivery pipe (6) and hydraulic inlet hose (9).
- 4. Disconnect the fuel hoses (8).
- 5. Disconnect the connectors (11) and glow plug harness (10).
- 6. Remove the shuttle plate (12).
- 7. Disconnect the clamp (13).

Tightening torque Power steering hose 2	24 to 28 N·m 2.5 to 2.8 kgf·m 18 to 20 lbf·ft
---	---

- (1) Spring Plate
- Bolt (2)
- (3) Oil Cooler
- (4) Clamp
- (5) Accelerator Rod
- (6) Hydraulic Delivery Pipe
- (7) Power Steering Hose
- (8) Fuel Hose
- (9) Hydraulic Inlet Hose
- (10) Glow Plug Harness
- (11) Connector
- (12) Shuttle Plate
- (13) Clamp

9Y1211156ENS0029US0

Separating Clutch Housing

- Support the transmission with a disassembling stand.
- 2. Hook the engine with a hoist.
- 3. Remove the docking bolts and nuts between the engine and the front case.

(When reassembling)

- Align the spline between the front wheel drive shaft and the coupling securely.
- Tighten the docking bolts between the engine and the front case securely.
- Apply liquid gasket (Three Bond 1206D or equivalent) to the joint face of the engine and the front case.

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Separating Engine from Front Axle Frame



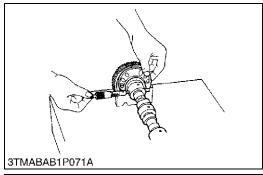
Separating Engine from Front Axle Frame

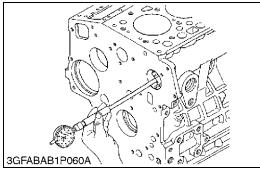
- When you replace the engine with new one, please record the serial number of new engine and the parts number which is incorporate with its new engine.
- 1. Remove the engine and front axle frame mounting screw and separate the engine from the front axle frame.

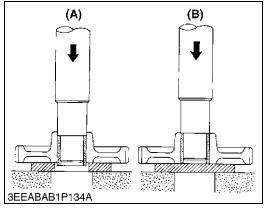
Tightening torque	Engine mounting screw	59 to 69 N·m 6.1 to 7.0 kgf·m
		44 to 50 lbf-ft

9Y1211156ENS0031US0

B2301, B2601, WSM ENGINE







Oil Clearance of Camshaft Journal

- 1. Measure the camshaft journal O.D. with an outside micrometer.
- 2. Measure the cylinder block bore I.D. for camshaft with a cylinder gauge, and calculate the oil clearance.
- If the oil clearance exceeds the allowable limit, replace the camshaft.

Oil clearance of	Factory specification	0.050 to 0.091 mm 0.0020 to 0.0035 in.		
camshaft journal	Allowable limit	0.15 mm 0.0059 in.		
Camshaft journal O.D.	Factory specification	35.934 to 35.950 mm 1.4147 to 1.4153 in.		
Camshaft bearing I.D. (Cylinder block bore I.D.)	Factory specification	36.000 to 36.025 mm 1.4173 to 1.4183 in.		

9Y1211156ENS0073US0

Replacing Idle Gear Bushing

(When removing)

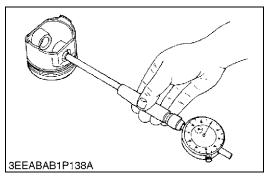
 Press out the used idle gear bushing using an idle gear bushing replacing tool. (See page "SPECIAL TOOLS".)

(When installing)

- 1. Clean a new idle gear bushing and idle gear bore, and apply engine oil to them.
- 2. Press in a new bushing using an idle gear bushing replacing tool, until it is flush with the end of the idle gear.
- (A) When Removing
- (B) When Installing

9Y1211156ENS0074US0

(3) Piston and Connecting Rod



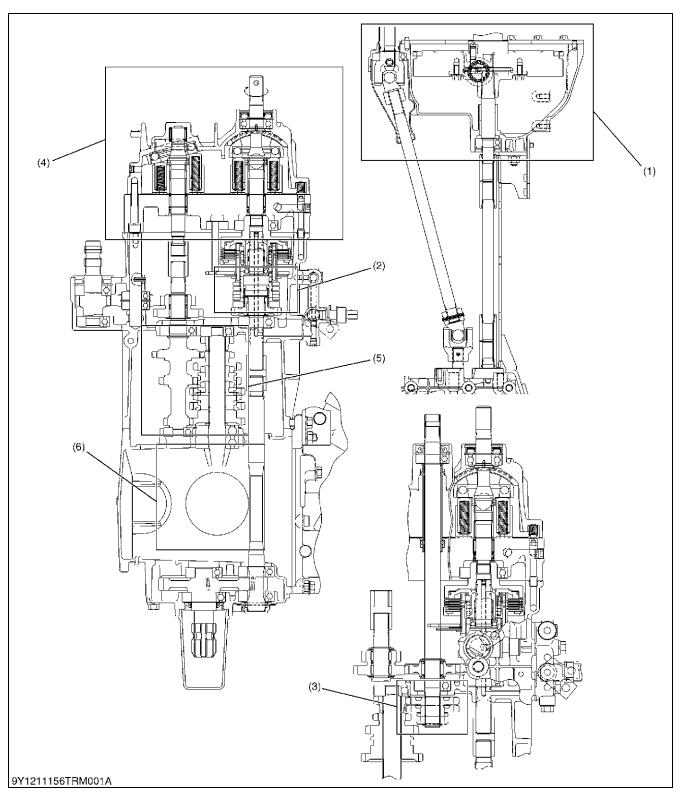
Piston Pin Bore I.D.

- 1. Measure the piston pin bore I.D. in both the horizontal and vertical directions with a cylinder gauge.
- 2. If the measurement exceeds the allowable limit, replace the piston.

Piston pin bore I.D.	Factory specification	22.000 to 22.013 mm 0.86615 to 0.86665 in.
Tistori piri bore 1.D.	Allowable limit	22.03 mm 0.8673 in.

9Y1211156ENS0075US0

1. STRUCTURE



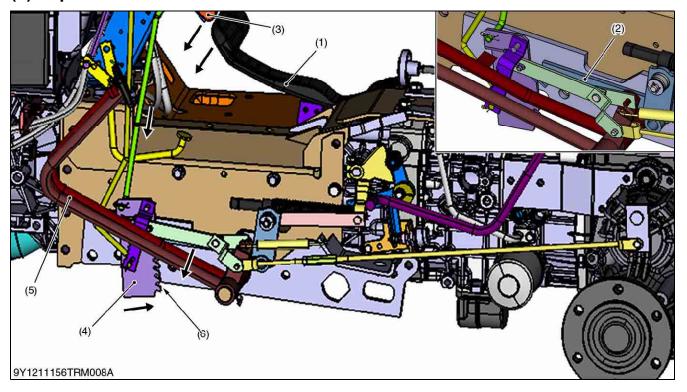
- Section
- (1) Front Case Section
 (2) Rear PTO and Mid PTO Shift
 (3) Front Wheel Drive Section
 (4) Hydrostatic Transmission Section
- (5) Range Gear Shift Section
- (6) Differential Gear Section

9Y1211156TRM0001US0

4. SPEED SET DEVICE

[1] SPEED SET LINKAGE

(1) Speed Set



- (1) HST pedal(2) Lever
- (3) Speed Set Lever
- (4) Speed Set Holder
- (5) Brake Pedal
- (6) Tooth

The speed set device mainly consists of HST pedal holding section and HST pedal releasing section.

When the HST pedal (1) is see to the desired position, the lever (2) turns counter clockwise.

The speed set lever (3) to the "ON" position.

The speed set holder (4) turns counter clockwise.

On the other hand, sine lever engage with tooth (6) of speed set holder (4), the HST pedal (1) is held at the desired set position until the brake pedals (5) will be depressed by an operator.

9Y1211156TRM0011US0

DIFFERENTIAL CASE SECTION

Symptom	Probable Cause	Solution	Reference Page
Excessive or Unusual Noise at All Time	Insufficient or improper type of transmission fluid used	Check transmission oil	G-8
	Improper backlash between spiral bevel pinion and bevel gear	Inspect or adjust backlash	2-S44
	Improper backlash between differential pinion and differential side gear	Inspect or adjust backlash	2-S43
	Bearing worn	Inspect or replace bearing	2-S41
Noise while Turning	Differential pinions or differential side gears worn or damaged	Inspect or replace differential pinion or differential side gear	2-S38
	Differential lock binding (does not disengage)	Repair or replace differential lock shifter	3-S4
	Bearing worn	Inspect or replace bearing	2-S21
Differential Lock Can Not Be Set	Differential lock shift fork damaged	Replace differential shift fork	3-S4
	Differential lock shifter mounting pin damaged	Replace differential lock shifter	3-S4
Differential Lock Pedal Does Not	Differential lock fork shaft rusted	Repair or replace differential lock fork shaft	3-S4
Return	Differential lock pedal return spring weakened or damaged	Replace return spring	2-S41

9Y1211156TRS0001US0

[3] DISASSEMBLING AND ASSEMBLING

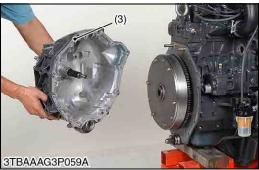
(1) Separating Engine and Clutch Housing

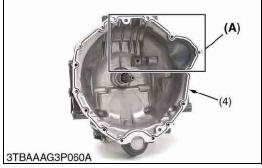
• See page 1-S23.

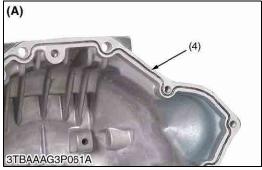
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(2) Front Case









Clutch Housing

- 1. Support the engine securely.
- 2. Remove the front case mounting bolts (1).
- 3. Remove the front case (3) from the engine.

(When reassembling)

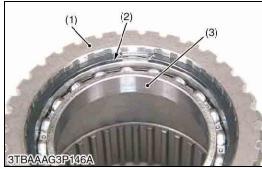
• Apply liquid gasket (Three Bond 1206D or equivalent) to the joint face of the engine and the front case.

Tightening torque	Front case mounting nut for aluminum material (M8)	17.7 to 20.5 N·m 1.8 to 2.1 kgf·m 13.1 to 15.1 lbf·ft
rightening torque	Front case mounting bolt for aluminum material (M10)	39.3 to 44.1 N·m 4.0 to 4.5 kgf·m 29.0 to 32.5 lbf·ft

- (1) Bolt
- (2) Engine Rear-End Plate
- (3) Front Case
- (4) Groove (for liquid gasket)

(A) Front Case Corner

9Y1211156TRS0020US0







Spline Boss Circlip

1. Push the circlip with a small screw driver through the small hole of the spline boss (1).

2. Lift the circlip (2) with a screw driver not to damage it.

(When reassembling)

- Install the circlip (2) holding it by hands.
- (1) Spline Boss

(3) Ball Bearing

(2) Circlip

9Y1211156TRS0041US0

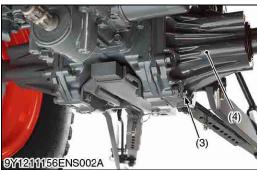
B2301, B2601, WSM REAR AXLE

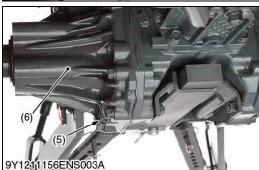
3. DIASSEMBLING AND SERVICING

[1] DIASSEMBLING AND ASSEMBLING

(1) Separating Rear Axle Case











Draining Transmission Fluid



CAUTION

- Stop the engine before checking and changing the transmission fluid.
- 1. Place the oil pan under the tractor.
- 2. Remove the drain plugs (1), (3), (5) at the mid-PTO shaft and at the bottom of the rear axle cases (4), (6).
- 3. Drain the transmission fluid.
- 4. After draining the transmission fluid, reinstall the drain plugs (1), (3), (5).

■ IMPORTANT

- Use only KUBOTA UDT oil. Use of other oils may damage the transmission or hydraulic system.
 Refer to "4. LUBRICANTS, FUEL AND COOLANT" on page
 - Refer to "4. LUBRICANTS, FUEL AND COOLANT" on page G-8.
- Never work the tractor immediately after changing the transmission oil. Keep 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	15 L 4.0 U.S.gals 3.3 Imp.gals	
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- (1) Drain Plug
- (2) Mid-PTO Shaft
- (3) Drain Plug

- (4) Rear Axle Case (L.H.)
- (5) Drain Plug
- (6) Rear Axle Case (R.H.)

9Y1211156ENS0023US0

Battery Cable

- 1. Open the bonnet and remove the side cover.
- 2. Disconnect the battery negative cable (1).

■ NOTE

- When disconnecting the battery cables, disconnect the grounding cable first. When connecting, the positive cable first.
- (1) Battery Negative Cable

9Y1211156RAS0003US0

Rear Wheel

- 1. Place the disassembling stand under the transmission case.
- 2. Remove the rear wheel (1).

Tightening torque	Rear wheel mounting nut and screw	145 to 150 N·m 14.8 to 15.2 kgf·m 107 to 110 lbf·ft
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(1) Rear Wheel

9Y1211156RAS0004US0

B2301, B2601, WSM STEERING

4. CHECKING, DISASSEMBLING AND SERVICING

[1] CHECKING

(1) Relief Valve





Relief Valve Operating Pressure

 Disconnect the power steering hose L.H. (or R.H.) from steering the power steering cylinder, and set a pressure gauge and cable.

(Reference)

- Hose and adaptor size: 9/16-18UNF, 37 ° flare.
- 2. Start the engine and set at maximum speed.
- 3. Fully turn the steering wheel to the left (or right) to check the feeling which the steering wheel lightly locks. Read the relief valve operating pressure when the steering wheel to the above-mentioned lock position by operation force at approximately 9.8 N (1 kgf, 2.2 lbf) of outer.

■ NOTE

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

(Bleeding air in power steering circuit)

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

Relief valve operating pressure		Factory specification	11.5 to 12.5 MPa 118 to 127 kgf/cm ² 1670 to 1810 psi
Tightening torque	Power steering hose for power steering cylinder		24 to 28 N·m 2.5 to 2.9 kgf·m 18 to 20 lbf·ft

- (1) Power Steering Hose (R.H.)
- (2) Power Steering Cylinder
- (3) Power Steering Hose (L.H.)

9Y1211156STS0004US0

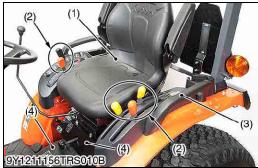
(2) Hydraulic Pump for Power Steering

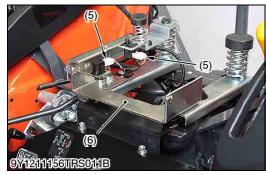
See page 7-S6.

9Y1211156STS0005US0

B2301, B2601, WSM HYDRAULIC SYSTEM









Battery Negative Cable

- 1. Disconnect the battery negative cable (2).
- (1) Battery

(2) Battery Negative Cable

9Y1211156HYS0014US0

Seat

- 1. Remove the seat (1) and lever grips (2).
- 2. Remove the both side lever guides (3).
- 3. Remove the seat under cover (4).
- 4. Disconnect the seat switch connector (5).
- 5. Remove the seat support (6).
- (1) Seat
- n
- (2) Lever Grip(3) Lever Guide

- (4) Seat Under Cover
- (5) Seat Switch Connector
- (6) Seat Support

9Y1211156HYS0015US0

Separating Hydraulic Cylinder from Tractor Body

- 1. Disconnect lever linkage from hydraulic cylinder.
- 2. Disconnect the hydraulic delivery pipe from hydraulic cylinder.
- 3. Disconnect the wiring harness from switches and pull the wiring harness to the front side.
- 4. Remove the hydraulic cylinder.

9Y1211156HYS0016US0