WSM

WORKSHOP MANUAL
TRACTOR

L2501

Kubota

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KiSC issued 09, 2014 A

TO THE READER

This Workshop Manual tells the servicing personnel about the mechanism, servicing and maintenance of the L2501. It contains 4 parts: **"Information"**, **"General"**, **"Mechanism"** and **"Servicing"**.

■ **Information**

This section primarily contains information below.

- Safety First
- Safety Decal
- Specifications
- Dimensions

■ **General**

This section primarily contains information below.

- Engine Identification
- Model Identification
- General Precautions
- Maintenance Check List
- Check and Maintenance
- Special Tools

■ **Mechanism**

This section contains information on the structure and the function of the unit. Before you continue with the subsequent sections, make sure that you read this section.

Refer to the latest version of Workshop Manual (Code No. 9Y021-01870 / 9Y021-18200) for the diesel engine / tractor mechanism that this workshop manual does not include.

■ **Servicing**

This section primarily contains information below.

- Troubleshooting
- Servicing Specifications
- Tightening Torques
- Checking, Disassembling and Servicing

All illustrations, photographs and specifications contained in this manual are of the newest information available at the time of publication.

KUBOTA reserves the right to change all information at any time without notice.

September, 2014

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1. SAFETY FIRST

⚠ 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 try to repair or use this unit.**

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

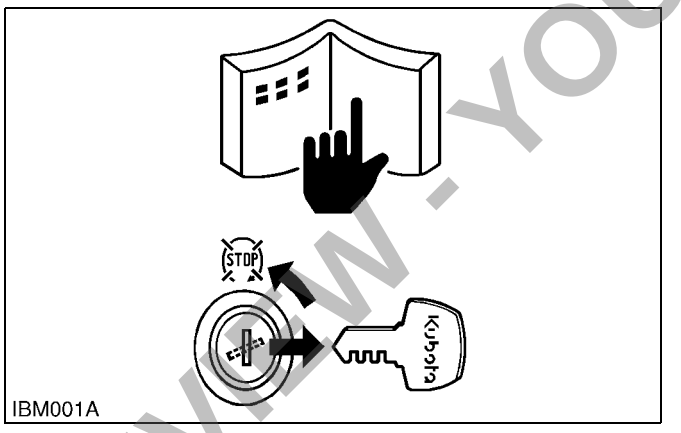
⚠ WARNING
- **Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.**

⚠ CAUTION
- **Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.**

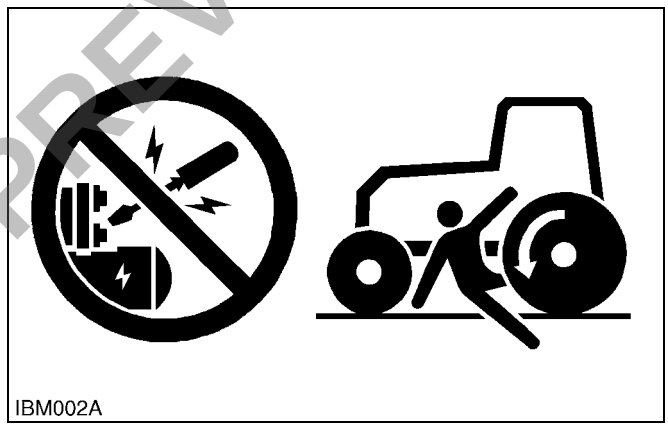
■ IMPORTANT
- **Indicates that equipment or property damage could result if instructions are not followed.**

■ NOTE
- **Gives helpful information.**

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IBM001A


IBM002A

BEFORE YOU START SERVICE

- 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 stable and level ground, and set the parking brake.
- Lower the implement to the ground.
- Stop the engine, then remove the key.
- Disconnect the battery negative cable.
- Hang a **"DO NOT OPERATE"** tag in the operator station.

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START SAFELY

- Do not do the procedures below when you start the engine.
  - short across starter terminals
  - bypass the safety start switch
- Do not alter or remove any part of machine safety system.
- Before you start the engine, make sure that all shift levers are in neutral positions or in disengaged positions.
- Do not start the engine when you stay on the ground. Start the engine only from operator's seat.

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3. SPECIFICATIONS

Model			L2501		
			Manual Transmission		HST
			2WD	4WD	4WD
PTO power*			15.3 kW (20.5 HP)		14.2 kW (19.0 HP)
Engine	Maker		KUBOTA		
	Model		D1703-M-DI-E4		
	Type		Indirect injection, Vertical, Water-cooled 4 cycle diesel		
	Number of cylinders		3		
	Bore and stroke		87 × 92.4 mm (3.4 × 3.6 in.)		
	Total displacement		1.647 L (100.47 cu.in.)		
	Engine gross power*		18.5 kW (24.8 HP)		
	Engine net power*		17.8 kW (23.9 HP)		
	Rated revolution		36.7 rps (2200 min^{-1} (rpm))		
	Low idling revolution		17.5 to 19.2 rps (1050 to 1150 min^{-1} (rpm))		
	Maximum torque		95.2 N·m (9.71 kgf·m, 70.2 lbf·ft)		
	Battery		12 V RC: 123 min., CCA: 490 A		
Capacities	Fuel tank		38.0 L (10.0 U.S.gals, 8.4 Imp.gals)		
	Engine crankcase (with filter)		5.7 L (6.0 U.S.qts, 5.0 Imp.qts)		
	Engine coolant		6.0 L (6.3 U.S.qts, 5.3 Imp.qts)		
	Transmission case		27.0 L (7.1 U.S.gals, 5.9 Imp.gals)	27.5 L (7.3 U.S.gals, 6.1 Imp.gals)	23.5 L (6.2 U.S.gals, 5.2 Imp.gals)
Dimensions	Overall length (without 3P)		2810 mm (110.6 in.)	2700 mm (106.3 in.)	
	Overall width (min. tread)		1400 mm (55.1 in.)		
	Overall height (with ROPS)		2330 mm (91.7 in.)		
	Overall height (Top of steering wheel)		1475 mm (58.1 in.)		
	Wheel base		1610 mm (63.3 in.)		
	Min. ground clearance		345 mm (13.6 in.)	340 mm (13.4 in.)	
	Tread	Front	1050 mm (41.3 in.)	1095 mm (43.1 in.)	
		Rear	1115 mm (43.8 in.), 1195 mm (47.1 in.), 1290 mm (50.8 in.)		
Weight (with ROPS)			1100 kg (2425 lbs)	1180 kg (2601 lbs)	1190 kg (2623 lbs)
Traveling system	Tires	AG front	5-15	7-16	
		AG rear	11.2-24		
	Indust. (option)	Front	N/A	27 × 8.50-15	
		Rear	N/A	15-19.5 R4	
	Clutch		Dry type single stage		
	Steering		Integral type power steering		
	Transmission		Gear shaft, 8 forward and 4 reverse		Hydrostatic transmission, 3 range speed
	Brake		Wet disk type		
	Min. turning radius (with brake)		2.4 m (7.9 feet)	2.5 m (8.2 feet)	
Hydraulic unit	Hydraulic control system		Position control		
	Pump capacity (main)		20.9 L/min. (5.52 U.S.gals/min., 4.60 Imp.gals/min.)		
	Pump capacity (PS)		12.7 L/min. (3.36 U.S.gals/min., 2.79 Imp.gals/min.)		
	Three point hitch		Category 1		
	Max. lift force	At lift points	870 kg (1918 lbs)		
		24 in. behind lift points	630 kg (1389 lbs)		
	System pressure		15.2 MPa (155 kgf/cm^2, 2205 psi)		
PTO	Rear PTO	PTO shaft size	SAE 1-3/8, 6-splines		
		Type	Transmission driven with overrunning		Live-continuous running
	PTO / Engine speed		540 / 1910 min^{-1} (rpm)		540 / 2105 min^{-1} (rpm)

■ **NOTE**

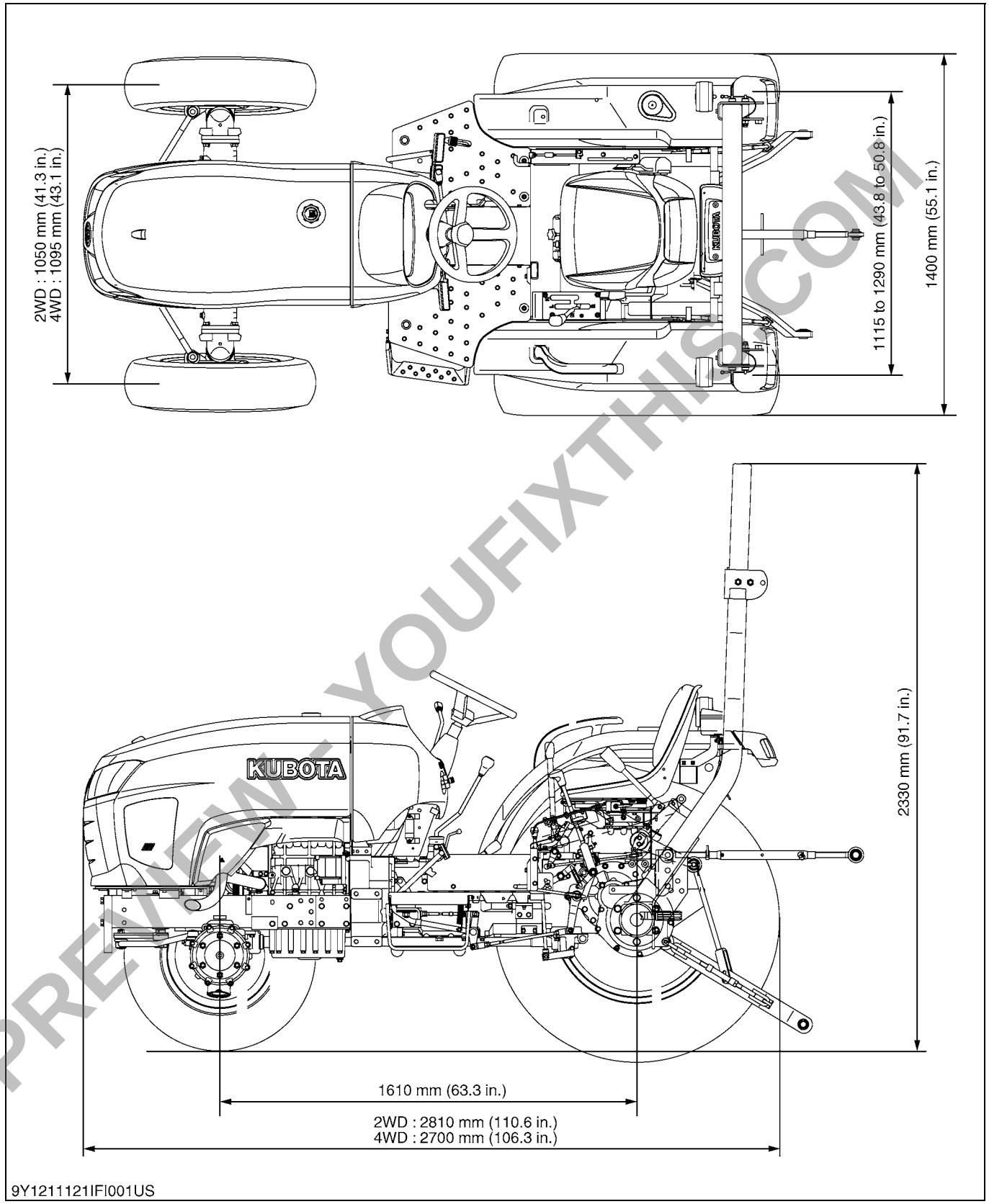
- ***Manufacturer's estimate**
  The company reserve the right to change the specifications without notice.

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5. DIMENSIONS



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4. LUBRICANTS, FUEL AND COOLANT

No.	Place		Capacity	Lubricants, fuel and coolant
			L2501	
1	Fuel		38.0 L 10.0 U.S.gals 8.4 Imp.gals	• No. 2-D diesel fuel • No. 1-D diesel fuel if temperature is below –10 °C (14 °F)
2	Coolant		6.0 L 6.3 U.S.qts 5.3 Imp.qts	Fresh clean water with anti-freeze
3	Engine crankcase (with filter)		5.7 L 6.0 U.S.qts 5.0 Imp.qts	Engine oil: Refer to next page. • Above 25 °C (77 °F) SAE30, 10W-30 or 15W-40 • −10 to 25 °C (14 to 77 °F) SAE20, 10W-30 or 15W-40 • Below −10 °C (14 °F) SAE10W-30
4	Transmission case	Manual Transmission, 2WD	27.0 L 7.1 U.S.gals 5.9 Imp.gals	KUBOTA SUPER UDT-2 fluid
	Transmission case	Manual Transmission, 4WD	27.5 L 7.3 U.S.gals 6.1 Imp.gals	
	Transmission case	HST, 4WD	23.5 L 6.2 U.S.gals 5.2 Imp.gals	
5	Front axle case (4WD)		4.5 L 4.8 U.S.qts 4.0 Imp.qts	KUBOTA SUPER UDT-2 fluid or SAE80-90 gear oil

Greasing				
No.	Place	No. of greasing point	Capacity	Type of grease
6	Front wheel hub (2WD)	2	A small amount	Bearing grease
	Knuckle shaft (2WD)	2	Until grease overflows	Multipurpose type grease NLGI-2 or NLGI-1 (GC-LB)
	Front axle support (4WD)	2		
	Clutch pedal	1		
	Brake pedal	1		
	Pedal shaft	1		
	Battery terminal	2		
	Lift rod	1		
	Tie-rod end (4WD)	4		

■ **NOTE**

- **The product name of KUBOTA genuine UDT fluid may be different from that in the Operator's Manual depending on countries or territories.**

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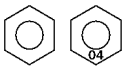
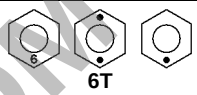
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5. TIGHTENING TORQUES

[1] GENERAL USE SCREWS, BOLTS AND NUTS

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

Indication on top of bolt	 No-grade or 4T						 7T						 9T		
Indication on top of nut	 No-grade or 4T												 6T		
Material of opponent part	Ordinariness			Aluminum			Ordinariness			Aluminum			Ordinariness		
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
M6	7.9 to 9.3	0.80 to 0.95	5.8 to 6.8	7.9 to 8.8	0.80 to 0.90	5.8 to 6.5	9.81 to 11.2	1.00 to 1.15	7.24 to 8.31	7.9 to 8.8	0.80 to 0.90	5.8 to 6.5	12.3 to 14.2	1.25 to 1.45	9.05 to 10.4
M8	18 to 20	1.8 to 2.1	13 to 15	17 to 19	1.7 to 2.0	13 to 14	24 to 27	2.4 to 2.8	18 to 20	18 to 20	1.8 to 2.1	13 to 15	30 to 34	3.0 to 3.5	22 to 25
M10	40 to 45	4.0 to 4.6	29 to 33	32 to 34	3.2 to 3.5	24 to 25	48 to 55	4.9 to 5.7	36 to 41	40 to 44	4.0 to 4.5	29 to 32	61 to 70	6.2 to 7.2	45 to 52
M12	63 to 72	6.4 to 7.4	47 to 53	–	–	–	78 to 90	7.9 to 9.2	58 to 66	63 to 72	6.4 to 7.4	47 to 53	103 to 117	10.5 to 12.0	76.0 to 86.7
M14	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	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	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	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

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[2] STUD BOLTS

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

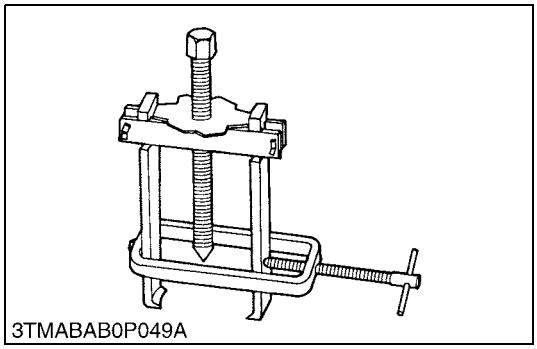
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8. SPECIAL TOOLS

[1] SPECIAL TOOLS FOR ENGINE

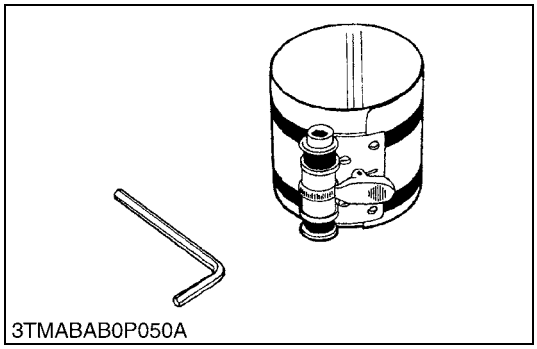

3TMABAB0P049A

Special Use Puller Set

Code No.
- 07916-09032

Application
- Use exclusively to pull out bearing, gears and other parts with ease.

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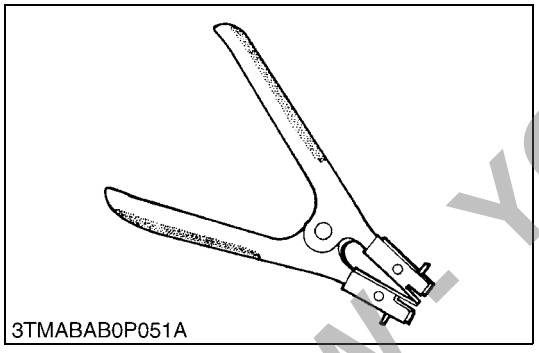

3TMABAB0P050A

Piston Ring Compressor

Code No.
- 07909-32111

Application
- Use exclusively to push in the piston with piston rings into the cylinder.

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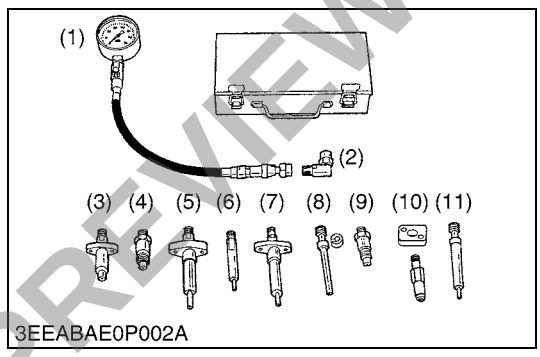

3TMABAB0P051A

Piston Ring Tool

Code No.
- 07909-32121

Application
- Use exclusively to remove or install the piston ring with ease.

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3EEABAE0P002A

Diesel Engine Compression Tester (for Injection Nozzle)

Code No.
- 07909-30208 (Assembly)
- 07909-30934 (**A** to **F**)
- 07909-31211 (**E** and **F**)
- 07909-31231 (**H**)
- 07909-31251 (**G**)
- 07909-31271 (**I**)
- 07909-31281 (**J**)

Application
- Use to measure diesel engine compression and diagnostics of need for major overhaul.

(1) Gauge
(2) **L** Joint
(3) Adaptor **A**
(4) Adaptor **B**
(5) Adaptor **C**
(6) Adaptor **E**
(7) Adaptor **F**
(8) Adaptor **G**
(9) Adaptor **H**
(10) Adaptor **I**
(11) Adaptor **J**

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1. TROUBLESHOOTING

Symptom	Probable Cause and Checking Procedure	Solution	Reference Page
Engine Does Not Start	1. No fuel	Fill fuel	G-9
	2. Fuel leak due to loose injection pipe retaining nut	Tighten retaining nut	1-S40
	3. Air in the fuel system	Vent air	G-34
	4. Water in the fuel system	Change fuel and repair or replace fuel system	G-9
	5. Fuel with low cetane number	Use specified fuel	G-9
	6. Excessively high viscosity of fuel or engine oil at low temperature	Use specified fuel or engine oil	G-9
	7. Fuel filter clogged	Replace	G-25
	8. Fuel hose clogged	Clean or replace	G-26
	9. Stop solenoid malfunctioning	Replace	9-S14
	10. Injection nozzle clogged	Repair or replace	1-S16
	11. Injection pump malfunctioning	Repair or replace	1-S44
	12. Compression leak from cylinder	Solution Order 1. Tighten cylinder head screw, glow plug and nozzle holder	1-S40, 1-S42
		2. Replace cylinder head gasket	1-S42
	13. Excessive valve clearance	Adjust	1-S11
	14. Improper valve timing	Correct or replace timing gear	1-S47
	15. Incorrect injection timing	Adjust	1-S15
	16. Piston ring and cylinder worn	Replace	1-S64, 1-S71
	17. Fuel camshaft worn	Replace	1-S47
	18. Seizure of crankshaft, camshaft, piston, cylinder or bearing	Repair or replace	1-S52, 1-S47, 1-S49
(Starter Does Not Run)	1. Electrical system malfunctioning	Repair or replace	9-S1
Engine Revolution Is Not Smooth	1. Air cleaner clogged	Clean or replace	G-25
	2. Fuel filter clogged or dirty	Replace	G-25
	3. Fuel leak due to loose injection pipe retaining nut	Tighten retaining nut	1-S40
	4. Governor malfunctioning	Repair	1-S45
	5. Incorrect nozzle opening pressure	Replace	1-S16
	6. Injection nozzle stuck or clogged	Replace	1-S16
	7. Injection pump malfunctioning	Repair or replace	1-S44

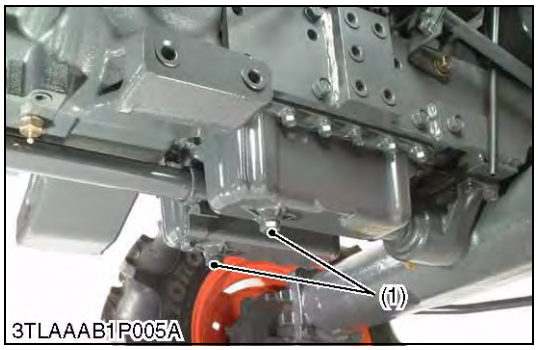
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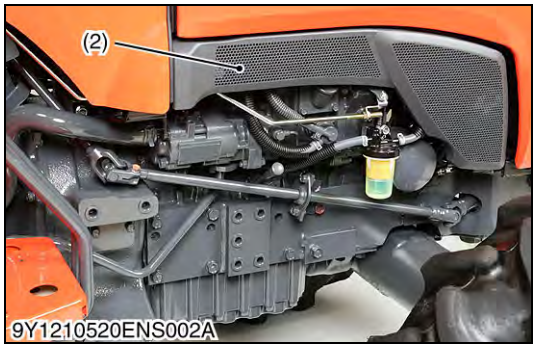
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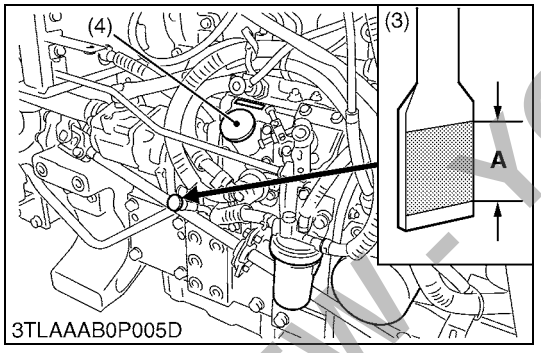
5. PREPARATION

[1] MANUAL TRANSMISSION TYPE

(1) Separating Engine from Clutch Housing Case







Draining Engine Oil

WARNING

To avoid personal injury or death:

- **Be sure to stop the engine before changing the oil.**
- **Allow engine to cool down sufficiently, oil can be hot and can burn.**

1. To drain the used oil, remove the drain plugs (1) at the bottom of the engine and drain the oil completely into the oil pan.
   All the used oil can be drained out easily when the engine is still warm.
2. After draining reinstall the drain plugs.

(When refilling)

- Remove the bonnet side cover (R.H.) (2).
- Fill the engine oil up to the upper line on the dipstick (3).

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 (with filter)	5.7 L 6.0 U.S.qts 5.0 Imp.qts

(1) Drain Plug
(2) Bonnet Side Cover (R.H.)
(3) Dipstick
(4) Oil Inlet Plug

A: Oil level is acceptable within this range.

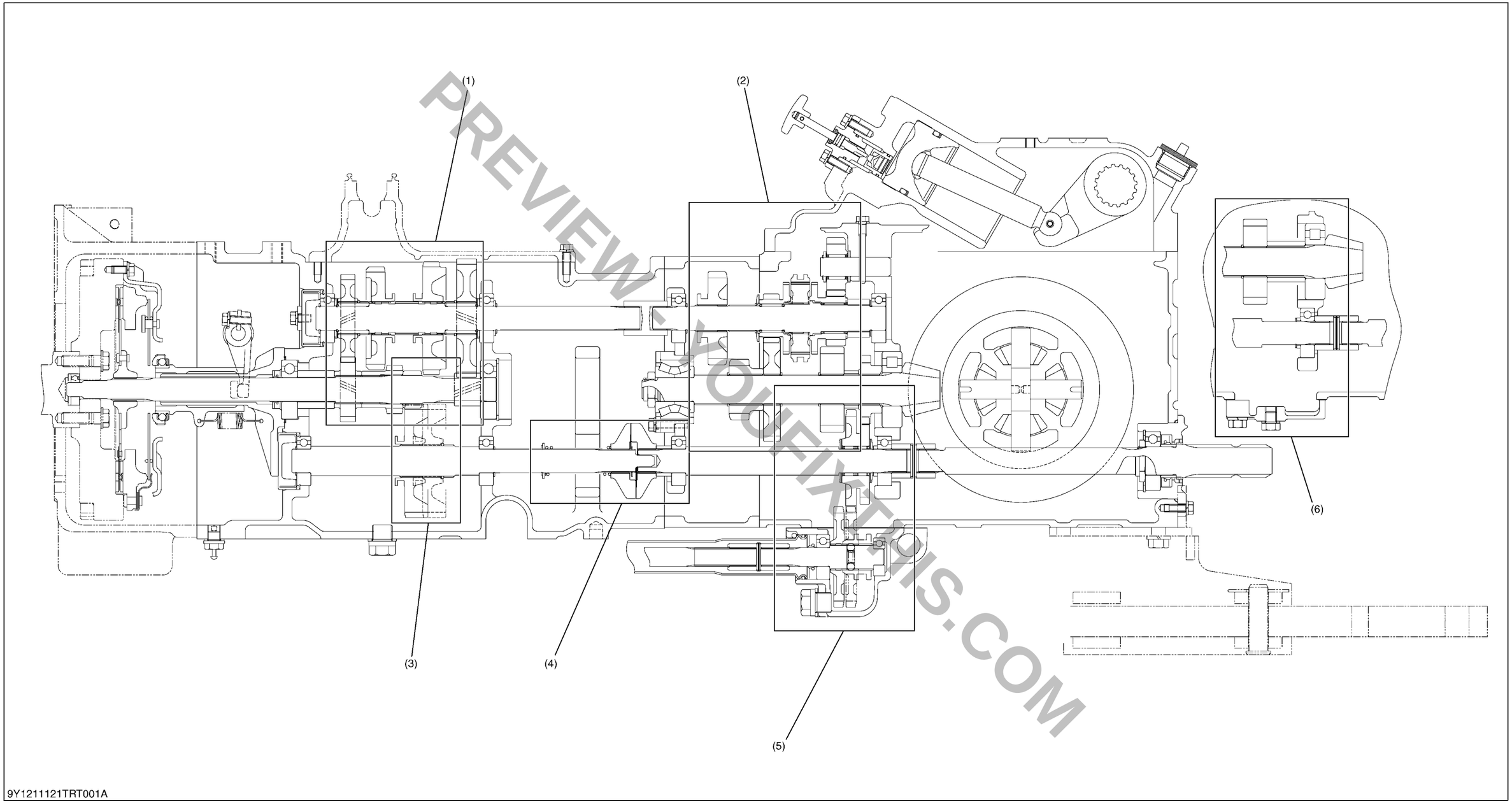
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1. STRUCTURE

[1] MANUAL TRANSMISSION TYPE

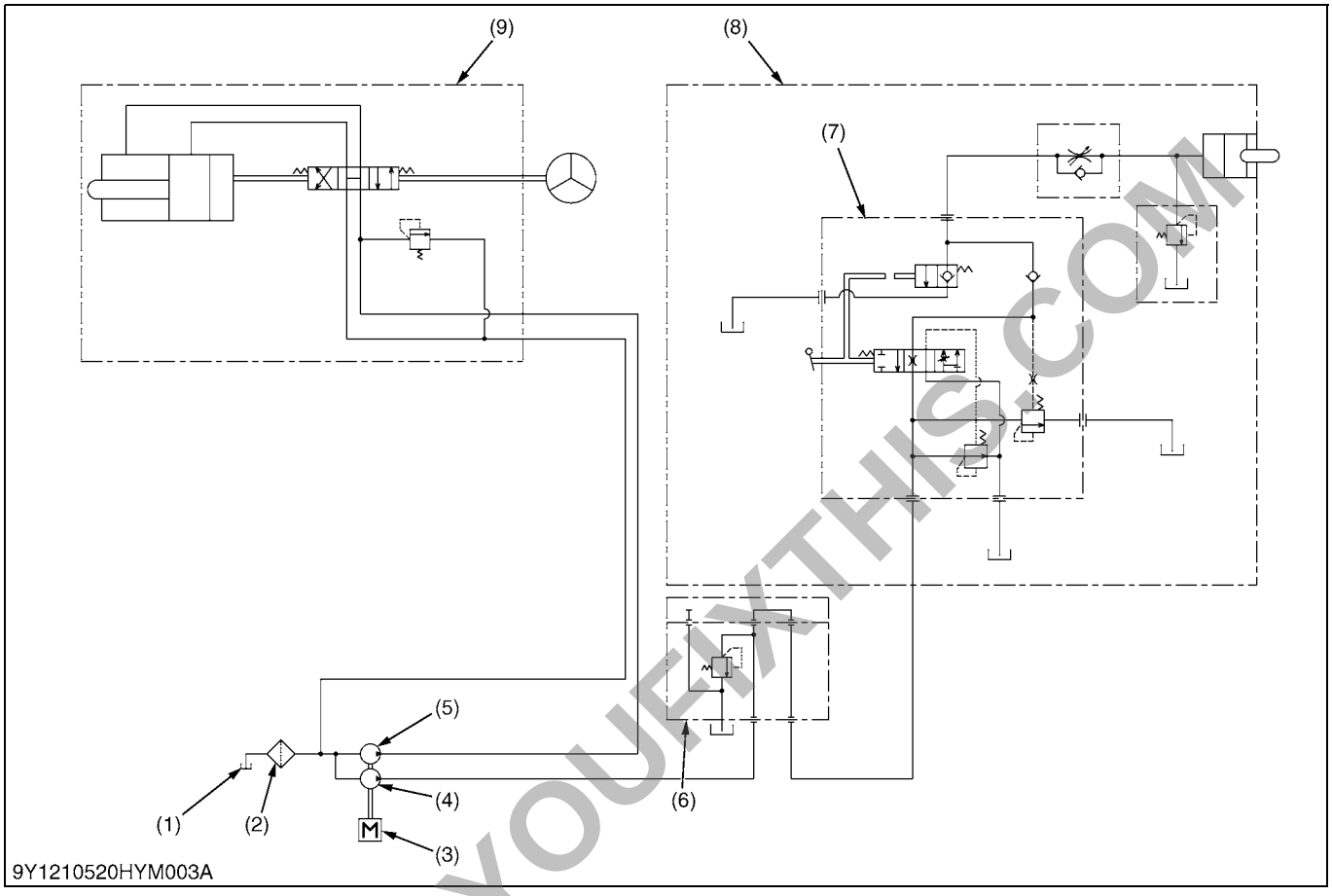


(1) Main Gear Shift Section
(2) Lo-Reverse, Hi-Shift Section
(3) PTO Gear Section
(4) PTO Clutch Section
(5) 4WD Section (Drive Gear)
(6) 2WD Section

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2. HYDRAULIC CIRCUIT

[1] MANUAL TRANSMISSION TYPE



(1) Oil Tank (Transmission Case)
(2) Hydraulic Oil Filter
(3) Engine
(4) Hydraulic Pump (Three Point Hitch)
(5) Hydraulic Pump (Power Steering)
(6) Front Hydraulic Block
(7) Position Control Valve
(8) Hydraulic Cylinder Block
(9) Power Steering Controller

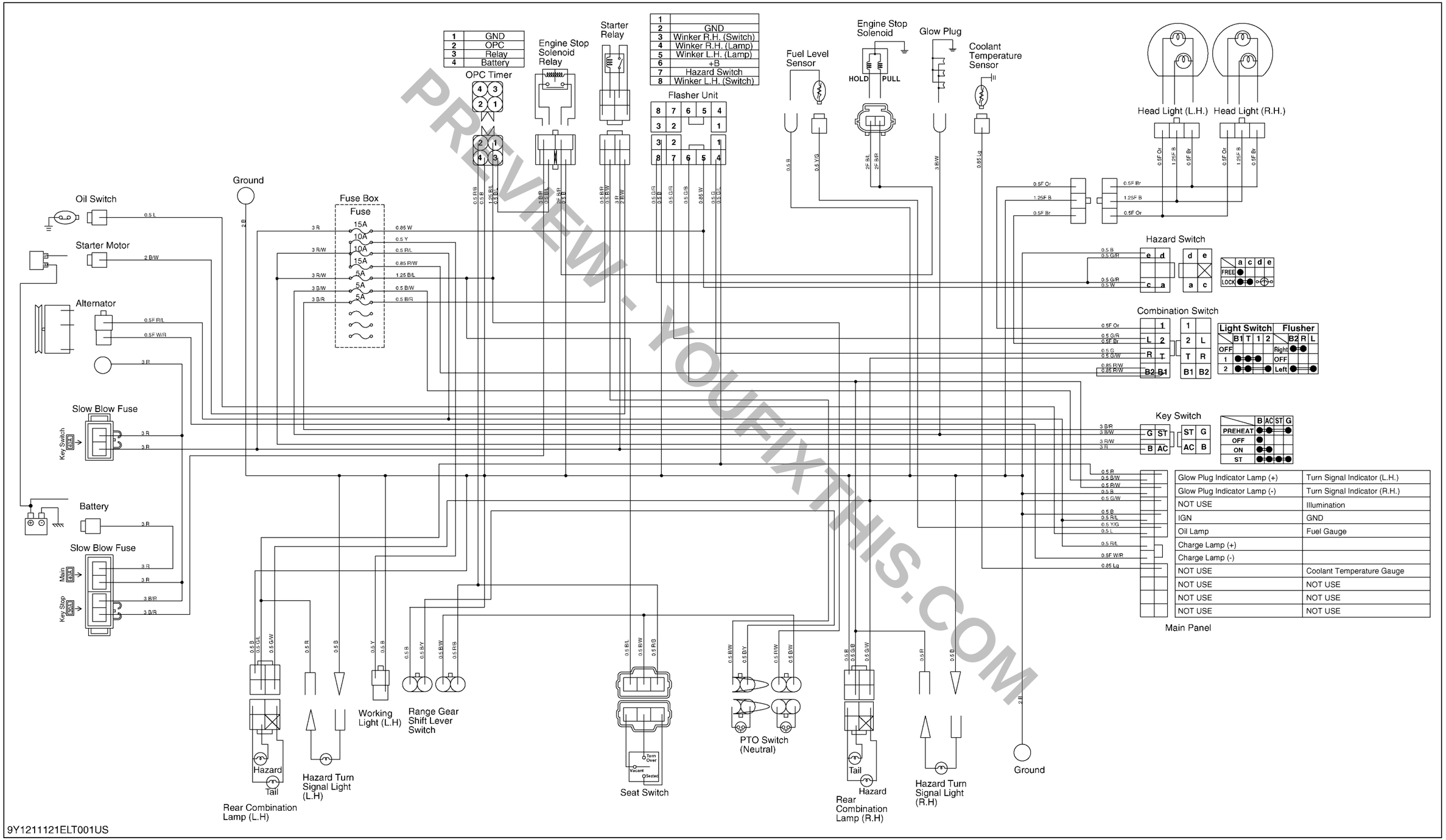
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1. WIRING DIAGRAM

[1] MANUAL TRANSMISSION TYPE



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INFORMATION

CONTENTS

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2. SAFETY DECALS I-4
3. SPECIFICATIONS I-7
4. TRAVELING SPEEDS I-8
5. DIMENSIONS I-9

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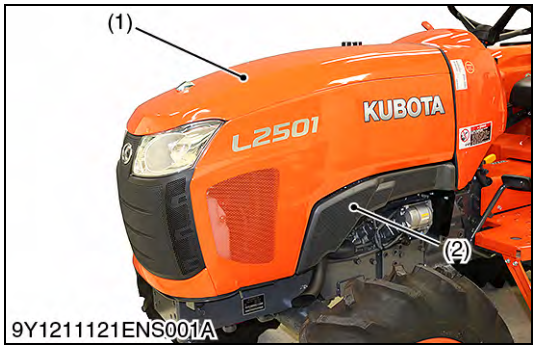
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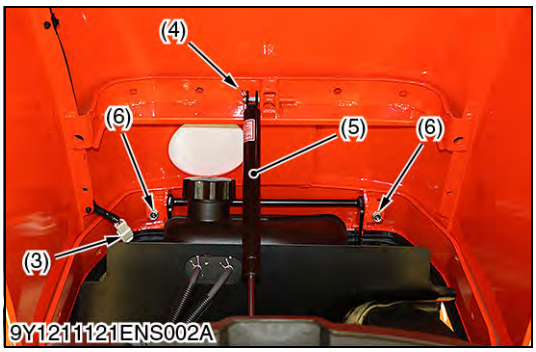
Symptom	Probable Cause and Checking Procedure	Solution	Reference Page
Low Oil Pressure	1. Engine oil insufficient	Fill	G-9
	2. Different type of oil	Use specified type of oil	G-9
	3. Oil strainer clogged	Clean	1-S48
	4. Relief valve stuck with dirt	Clean	1-S46
	5. Relief valve spring weaken or broken	Replace	1-S46
	6. Oil pump damaged	Replace	1-S48
	7. Excessive oil clearance of crankshaft bearing	Replace	1-S68
	8. Excessive oil clearance of crankpin bearing	Replace	1-S67
	9. Excessive oil clearance of rocker arm	Replace	1-S60
	10. Oil passage clogged	Clean	–
High Oil Pressure	1. Different type of oil	Use specified type of oil	G-9
	2. Relief valve damaged	Replace	1-S46
Engine Overheated	1. Overload running	Reduce the load	–
	2. Engine oil insufficient	Fill	G-9
	3. Coolant insufficient	Fill	G-9
	4. Unsuitable fuel used	Use specified fuel	G-9
	5. Fan belt broken or elongated	Replace or adjust	G-24, 1-S12
	6. Radiator net and radiator fin clogged with dust	Clean	1-S14
	7. Radiator cap damaged	Replace	1-S13
	8. Inside of radiator corroded	Clean or replace	1-S13
	9. Coolant flow route corroded	Clean or replace	1-S13
	10. Head gasket damaged	Replace	1-S42
	11. Incorrect injection timing	Adjust	1-S15

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Bonnet and Front Axle Rocking Restrictor

1. To open the bonnet (1), hold the bonnet with a hand and pull the release lever and open the bonnet.
2. Disconnect the battery negative cable.
3. Disconnect the head light connector (3).
4. Remove the snap pin (4) and disconnect the bonnet damper (5) from the bonnet.
5. Remove the screws (6).
6. Remove the bonnet carefully.
7. Remove the side cover (2).
8. Install the front axle rocking restrictor (7) (refer to "SPECIAL TOOLS" (see page G-55)) to the front axle bracket and chock the rear wheels.

(When reassembling)

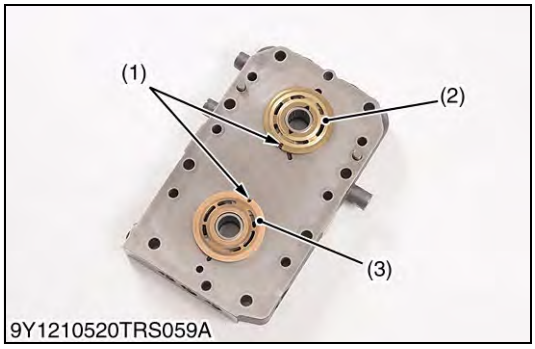
- To close the bonnet, push the bonnet into position using both hands.

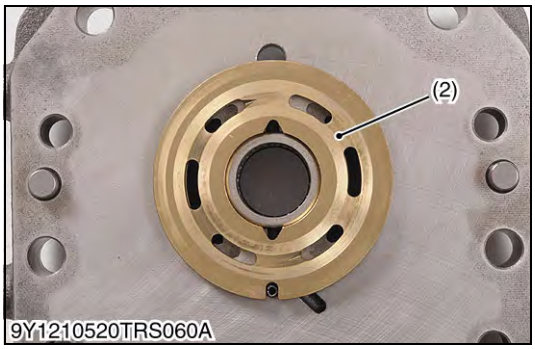
(1) Bonnet
(2) Side Cover
(3) Head Light Connector
(4) Snap Pin
(5) Bonnet Damper
(6) Screw
(7) Front Axle Rocking Restrictor

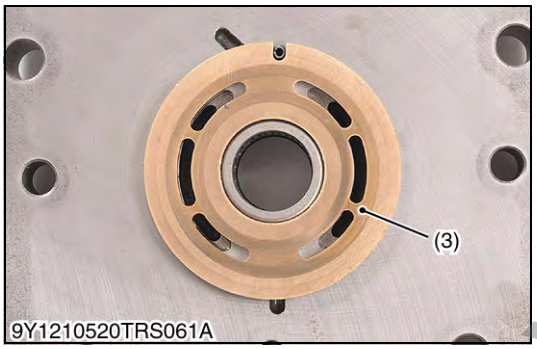
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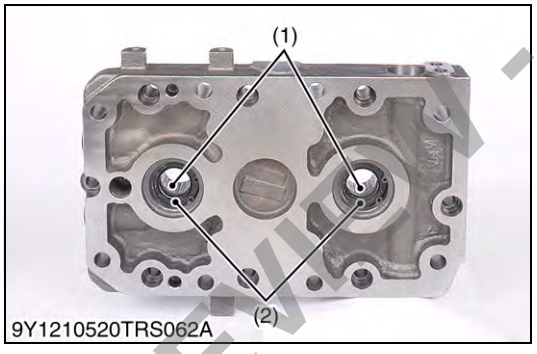
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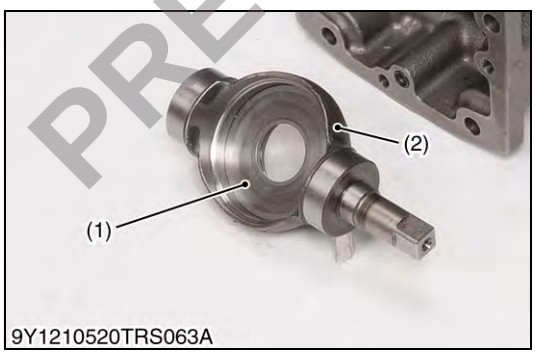
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Valve Plate

1. Check the engagement of the valve plate (2), (3) and the anchor pin (1).
2. Pushing the valve plate against the anchor pin, lift it to remove.
3. Check the valve plate for foreign particles.
4. Clean the valve plate and dry with compressed air.
5. Check the valve plate for scratches, wear and erosion. (Run a finger nail across the valve plate surface. If worn, it will be felt.)
6. If worn or scored, replace.

■ **NOTE**
- **After checking, coat them with transmission oil.**
- **Valve plates are not interchangeable.**

(1) Anchor Pin
(2) Valve Plate (Pump Side)
(3) Valve Plate (Motor Side)

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Oil Seals and Bearing for Shaft

1. Remove the internal snap ring and check the oil seals (2) for damage.
2. Check the bearings (1) for wear.
3. If the bearings are worn, replace.

■ **NOTE**
- **After checking, coat the bearing with transmission oil and the oil seal lip with grease.**

(1) Needle Bearing
(2) Oil Seal

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Thrust Plate and Trunnion

1. Check the piston contact face of the thrust plate (1), and the thrust plate contact face of trunnion (2) for scratches and excessive wear.
2. If the thrust plate (1) and the trunnion (2) are worn and scored, replace them.

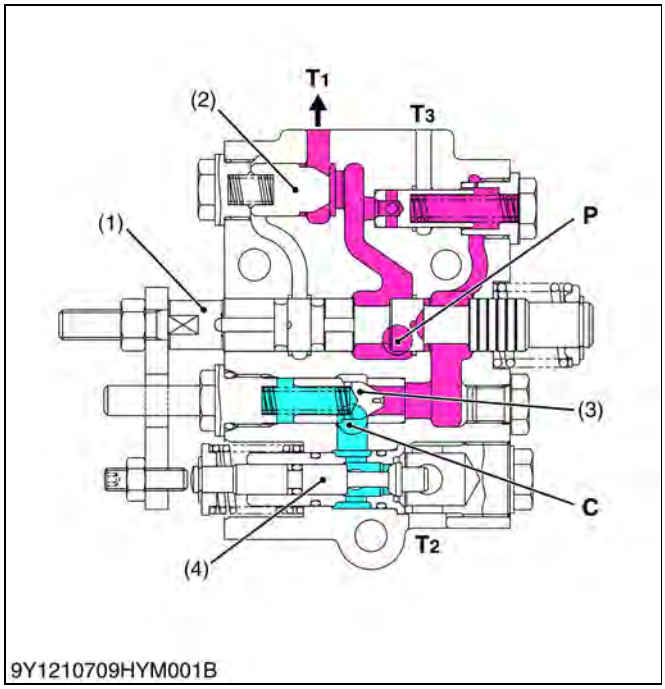
(1) Thrust Plate
(2) Trunnion

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[4] POSITION CONTROL VALVE



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■ Neutral

Pressurized oil delivered from the **P** port, pushes the unload poppet (2) and returns to the transmission case from T_1 port.

Since the poppet 1 (3) is closed by the spring located behind the poppet 1 (3), the oil in the hydraulic cylinder is not drained to the transmission case.

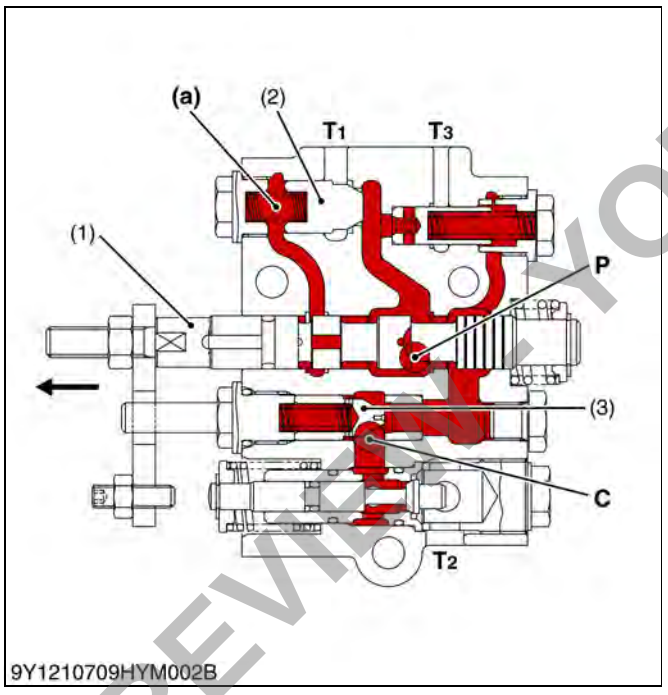
At this condition, position control is kept at **"NEUTRAL"**.

The oil in the hydraulic cylinder is cut off by the actions of poppet 1 (3) and poppet 2 (4).

(1) Spool
(2) Unload Poppet
(3) Poppet 1
(4) Poppet 2

C: C (Cylinder) Port
P: P (Pump) Port
T_1: T_1 Port (To Transmission Case)
T_2: T_2 Port (To Transmission Case)
T_3: T_3 Port (To Transmission Case)

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9Y1210709HYM002B

■ Lifting

When the control lever is moved to **"UP"** position, the spool (1) is pulled out from the position control valve body as shown in the figure.

The high-pressured oil delivered from **P** port flows through the oil passage of the spool (1) into the **A** chamber **(a)**.

Since the spring behind the unload poppet (2) and the pressured oil entered to the **A** chamber **(a)** push and close the unload poppet (2).

At this condition, the pressured oil flows to the **C** port.

Since the poppet 1 (3) is opened by the pressured oil, the pressured oil flows through **C** port to the hydraulic cylinder, lifting a implement.

(1) Spool
(2) Unload Poppet
(3) Poppet 1

(a) A Chamber

C: C (Cylinder) Port
P: P (Pump) Port
T_1: T_1 Port (To Transmission Case)
T_2: T_2 Port (To Transmission Case)
T_3: T_3 Port (To Transmission Case)

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