

Product: Kubota L5240-3 L5740-3 L3240-3 L3540-3 L4240-3 Service Manual  
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# WSM

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## WORKSHOP MANUAL TRACTOR

# L3240-3, L3540-3, L4240-3, L5240-3, L5740-3

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KISC issued 11.2016 A

## TO THE READER

This Workshop Manual tells the servicing personnel about the mechanism, servicing and maintenance of the L3240, L3540, L4240, L5240 and L5740. It contains 4 parts: "**Information**", "**General**", "**Mechanism**" and "**Servicing**".

### ■ **Information**

This section primarily contains information below.

- Safety First
- Safety Decal
- Specification
- Dimension

### ■ **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.

Since this manual includes many models, information or illustrations and photographs can show more than one model.

September, 2011

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KiSC issued 11, 2016 A

## **Record of Revisions**

For pdf, use search function {Search word} to find all the revised locations.

<b>Last digit of the Code No.</b>	<b>Issue month</b>	<b>Main Revised Point and Corrective Measures {Search word}</b>	<b>Reference Page</b>
1	2016.11	Add adjusting procedure for ATA (Auto Throttle Advance) cable {ATA Auto Throttle Advance Adjustment}	3-S27
		Error correction of glow relay position {Glow Relay}	9-M11
		Add fuse information to starting circuit diagram {Engine starting system and stopping system electrical circuit}	9-M25, 9-M26, 9-M27
		Correction of the glow relay connector illustration	9-S48

# **| INFORMATION**

# INFORMATION

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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, could result in minor or moderate injury.

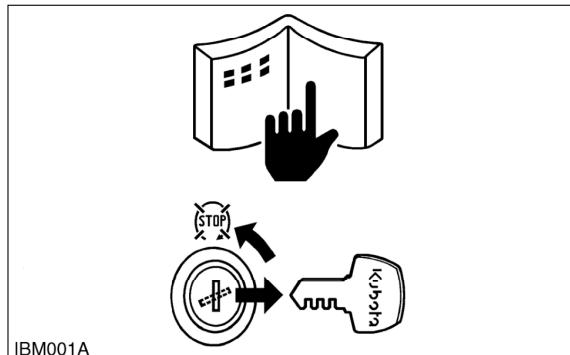
### ■ IMPORTANT

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

### ■ NOTE

- Gives helpful information.

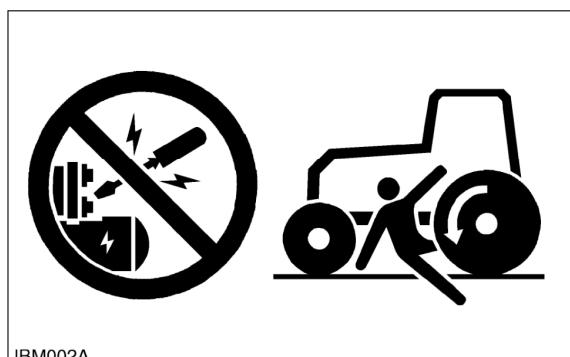
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### BEFORE YOU START SERVICE

- 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.

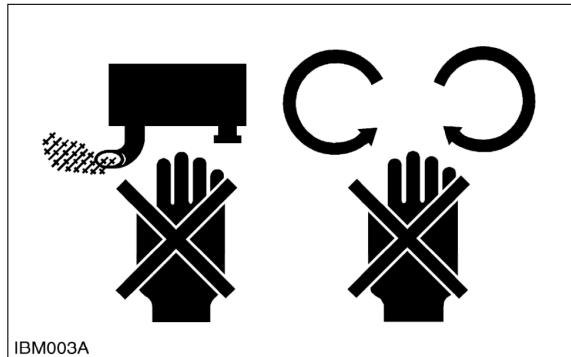
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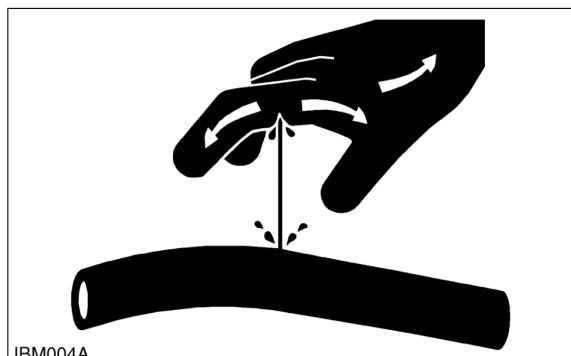
### START SAFELY

- 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.

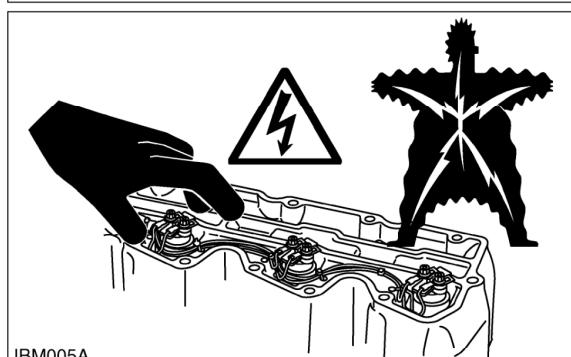
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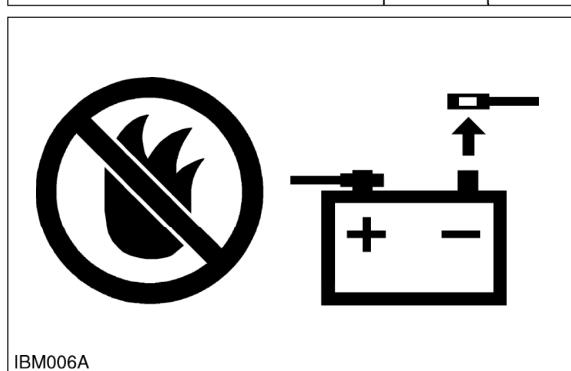
IBM003A



IBM004A



IBM005A



IBM006A

### OPERATE SAFELY

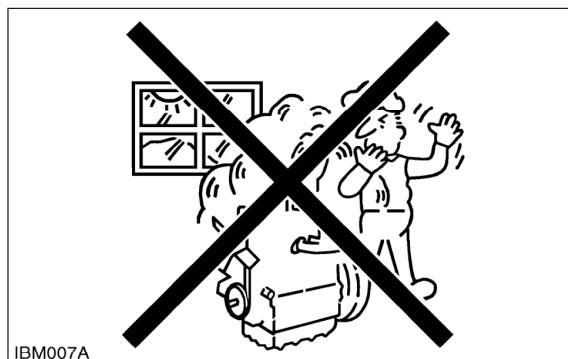
- Do not use the machine after you consume alcohol or medication or when you are tired.
- Put on applicable clothing and safety equipment.
- Use applicable tools only. Do not use alternative tools or parts.
- When 2 or more persons do servicing, make sure that you do it safely.
- Do not operate below the machine that only a jack holds. Always use a safety stand to hold the machine.
- Do not touch the hot parts or parts that turn when the engine operates.
- Do not remove the radiator cap when the engine operates, or immediately after it stops. If not, hot water can spout out from the radiator. Only remove the radiator cap when it is at a sufficiently low temperature to touch with bare hands. Slowly loosen the cap to release the pressure before you remove it fully.
- Released fluid (fuel or hydraulic oil) under pressure can cause damage to the skin and cause serious injury. Release the pressure before you disconnect hydraulic or fuel lines. Tighten all connections before you apply the pressure.
- Do not open a fuel system under high pressure. The fluid under high pressure that stays in fuel lines can cause serious injury. Do not disconnect or repair the fuel lines, sensors, or any other components between the fuel pump and injectors on engines with a common rail fuel system under high pressure.
- Put on an applicable ear protective device (earmuffs or earplugs) to prevent injury against loud noises.
- Be careful about electric shock. The engine generates a high voltage of more than DC100 V in the ECU and is applied to the injector.

WSM000001INI0012US0

### PREVENT A FIRE

- Fuel is very flammable and explosive under some conditions. Do not smoke or let flames or sparks in your work area.
- To prevent sparks from an accidental short circuit, always disconnect the battery negative cable first and connect it last.
- The battery gas can cause an explosion. Keep the sparks and open flame away from the top of battery, especially when you charge the battery.
- Make sure that you do not spill fuel on the engine.

WSM000001INI0005US0



#### KEEP A GOOD AIRFLOW IN THE WORK AREA

- If the engine is in operation, make sure that the area has good airflow. Do not operate the engine in a closed area. The exhaust gas contains poisonous carbon monoxide.

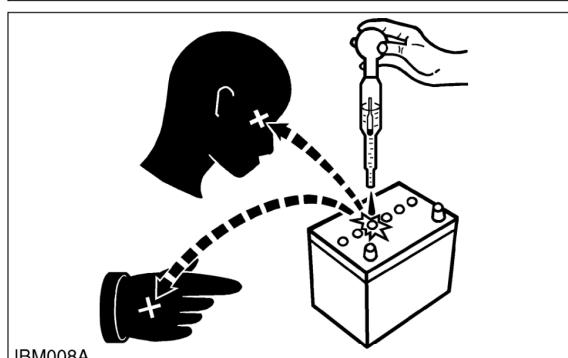
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#### DISCARD FLUIDS CORRECTLY

- Do not discard fluids on the ground, down the drain, into a stream, pond, or lake. Obey related environmental protection regulations when you discard oil, fuel, coolant, electrolyte and other dangerous waste.

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#### PREVENT ACID BURNS

- Keep electrolyte away from your eyes, hands and clothing. Sulfuric acid in battery electrolyte is poisonous and it can burn your skin and clothing and cause blindness. If you spill electrolyte on yourself, clean yourself with water, and get medical aid immediately.

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#### PREPARE FOR EMERGENCIES

- Keep a first aid kit and fire extinguisher ready at all times.
- Keep the emergency contact telephone numbers near your telephone at all times.

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## 2. SAFETY DECALS

The following safety decals are installed on the machine. If a decal becomes damaged, illegible or is not on the machine, replace it. The decal part number is listed in the parts list.

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(1) Part No. TA040-4965-2

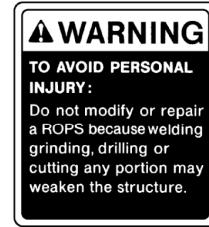


### ⚠ DANGER

#### TO AVOID POSSIBLE INJURY OR DEATH FROM A MACHINE RUNAWAY.

1. Do not start engine by shorting across starter terminals or bypassing the safety start switch. Machine may start in gear and move if normal starting circuitry is bypassed.
2. Start engine only from operator's seat with transmission and PTO OFF. Never start engine while standing on the ground.

1AGAMAAAP3810

(4) Part No. 6C140-4746-1  
[Foldable ROPS type]

1AGAMAAAP3870

(2) Part No. TD170-4935-1

### ⚠ WARNING

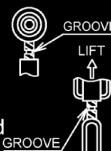
#### TO AVOID PERSONAL INJURY:

1. Attach pulled or towed loads to the drawbar only.
2. Use the 3-point hitch only with equipment designed for 3-point hitch usage.

### ⚠ CAUTION

#### TO AVOID INJURY FROM SEPARATION:

Do not extend lift rod beyond the groove on the threaded rod.



1AGAWAAAP085A

(5) Part No. TA040-4934-2  
[Mid-PTO type]

1AGAMAAAP4880

(3) Part No. TA040-4959-3

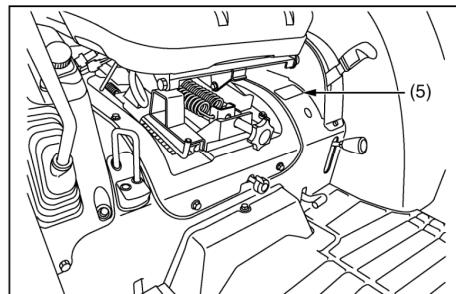
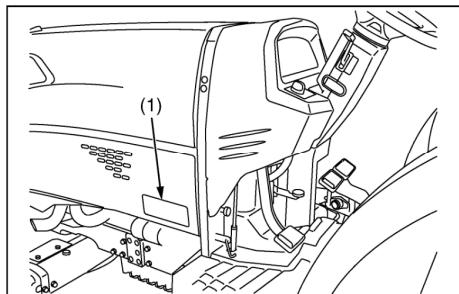
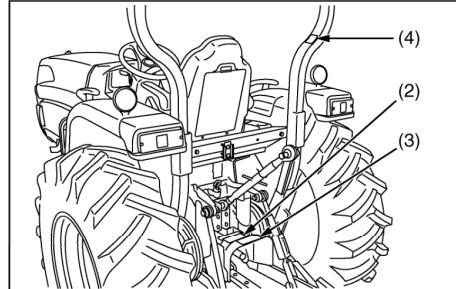


### ⚠ WARNING

#### TO AVOID PERSONAL INJURY.

1. Keep PTO shield in place at all times.
2. Do not operate the PTO at speeds faster than the speed recommended by the implement manufacturer.
3. For trailing PTO-driven implements set drawbar at towing position (see operator's manual).

1AGAMAAAP3830



9Y1210624IC1001US

9Y1210624INI0001US0

(1) Part No. TA140-4933-1 [Manual Transmission type]

**⚠ WARNING****BEFORE DISMOUNTING TRACTOR:**

1. **ALWAYS SET PARKING BRAKE.**
2. **PARK ON LEVEL GROUND WHENEVER POSSIBLE.**  
If parking on a slope, position tractor across the slope.
3. **LOWER ALL IMPLEMENTS TO THE GROUND.**  
Failure to comply to this warning may allow the wheels to slip, and could cause injury or death.
4. **LOCK SHUTTLE SHIFT LEVER IN NEUTRAL POSITION AND STOP THE ENGINE.**

1AGAMAAAP4000

(3) Part No. TD060-4927-1 [Foldable ROPS type]

**⚠ CAUTION****TO AVOID INJURY WHEN RAISING OR FOLDING ROPS:**

- Set parking brake and stop engine.
- Remove any obstruction that may prevent raising or folding of the ROPS.
- Do not allow any bystanders.
- Always perform function from a stable position at the rear of the tractor.
- Hold the top of the ROPS securely when raising or folding.
- Make sure all pins are installed and locked.

1AGAMAAAP4800

(1) Part No. TD170-4933-1 [HST type]

**⚠ WARNING****BEFORE DISMOUNTING TRACTOR:**

1. **ALWAYS SET PARKING BRAKE.**  
Leaving transmission in gear with the engine stopped will not prevent tractor from rolling.
2. **PARK ON LEVEL GROUND WHENEVER POSSIBLE.**  
If parking on a slope, position tractor across the slope.
3. **LOWER ALL IMPLEMENTS TO THE GROUND.**  
Failure to comply to this warning may allow the wheels to slip, and could cause injury or death.
4. **STOP THE ENGINE.**

1AGAMAAAP3720

(2) Part No. TA240-9848-1 [Foldable ROPS type]

**⚠ WARNING****TO AVOID INJURY OR DEATH FROM ROLL-OVER:**

- Keep Roll-Over Protective Structures (ROPS) in the upright and locked position.
- Fasten SEAT BELT before operating.

**THERE IS NO OPERATOR PROTECTION WHEN THE ROPS IS IN THE FOLDED POSITION:**

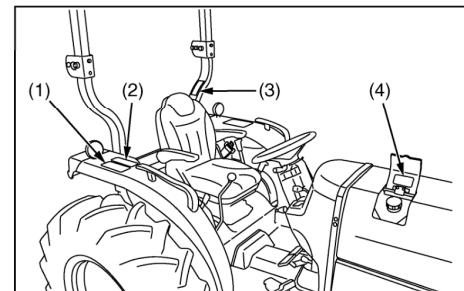
- Check the operating area and fold the ROPS only when absolutely necessary.
- Do not wear SEAT BELT if ROPS is folded.
- Raise and lock ROPS as soon as vertical clearance allows.
- Read ROPS related instructions and warnings.

1AGAMAAAP3730

(4) Part No. TC230-4956-1  
Diesel fuel only.

LOW SULFUR FUEL OR ULTRA LOW SULFUR FUEL ONLY

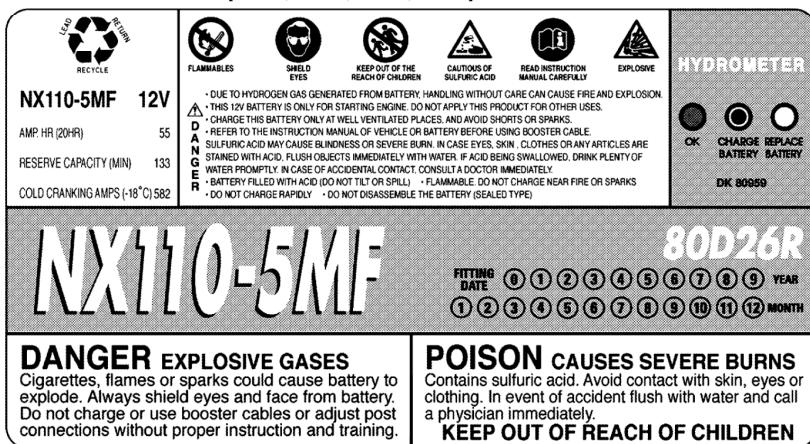
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9Y1210624ICI002US

9Y1210624IN10002US0

(1) Part No. TD020-3012-2 [L3240]  
 Part No. TD060-3012-2 [L3540, L4240, L5240, L5740]



1AGAMAAAP4010

(2) Part No. 32751-4958-1  
 Do not get your hands close to engine fan and fan belt.

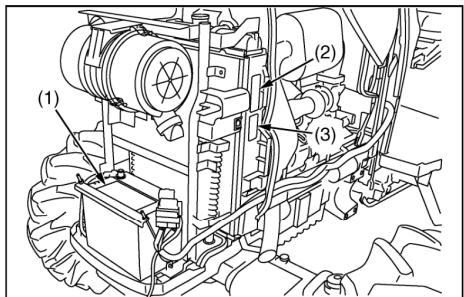


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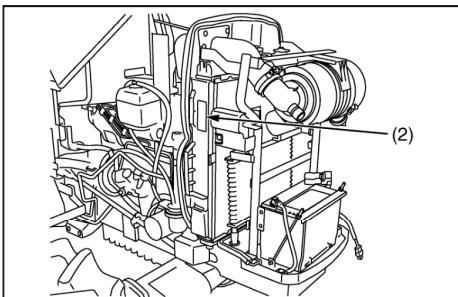
(3) Part No. TC030-4958-1  
 Do not touch hot surface like muffler, etc.



1AGAMAAAP3760



9Y1210624IC1003US



9Y1210624INI0003US0

(1) Part No. 35260-3491-4

**CAUTION****TO AVOID PERSONAL INJURY:**

1. Read and understand the operator's manual before operation.
2. Before starting the engine, make sure that everyone is at a safe distance from the tractor and that the PTO is OFF.
3. Do not allow passengers on the tractor at any time.
4. Before allowing other people to use the tractor, have them read the operator's manual.
5. Check the tightness of all nuts and bolts regularly.
6. Keep all shields in place and stay away from all moving parts.
7. Lock the two brake pedals together before driving on the road.
8. Slow down for turns, or rough roads, or when applying individual brakes.
9. On public roads use SMV emblem and hazard lights, if required by local traffic and safety regulations.
10. Pull only from the drawbar.
11. Before dismounting, lower the implement to the ground, set the parking brake, stop the engine and remove the key.
12. Securely support tractor and implements before working underneath.

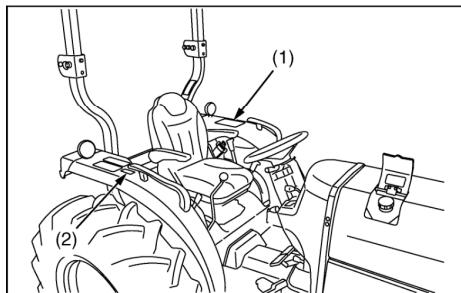
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(2) Part No. 6C300-4744-1

**WARNING**

Operation of this equipment may create sparks that can start fires around dry vegetation.  
A spark arrester may be required.  
The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements.

1AGAIHFAP069A



9Y1210624IC1004US

9Y1210624IN10004US0

(1) Part No. TD170-4938-1

## **⚠ CAUTION**

### **TO AVOID PERSONAL INJURY:**

1. Read and understand the operator's manual before operation.
2. Before starting the engine, make sure that everyone is at a safe distance from the tractor and that the PTO is OFF.
3. Do not allow passengers on the tractor at any time.
4. Before allowing other people to use the tractor, have them read the operator's manual.
5. Check the tightness of all nuts and bolts regularly.
6. Keep all shields in place and stay away from all moving parts.
7. Lock the two brake pedals together before driving on the road.
8. Slow down for turns, or rough roads, or when applying individual brakes.
9. On public roads use SMV emblem and hazard lights, if required by local traffic and safety regulations.
10. Pull only from the drawbar.
11. Before dismounting, lower the implement to the ground, set the parking brake, stop the engine and remove the key.
12. Securely support tractor and implements before working underneath.

1AGAMAOAP0800

(2) Part No. 6C300-4744-1

## **⚠ WARNING**

Operation of this equipment may create sparks that can start fires around dry vegetation.  
A spark arrester may be required.  
The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements.

1AGAIHFAP069A

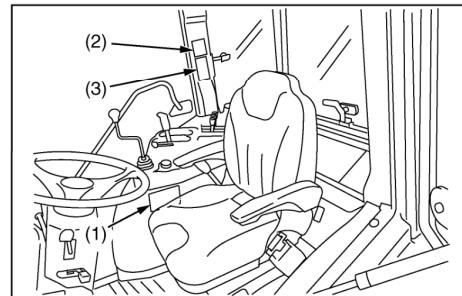
(3) Part No. TA040-4902-1

## **⚠ WARNING**



**TO AVOID INJURY OR DEATH FROM ROLL-OVER:**  
Always use seat belt when driving.

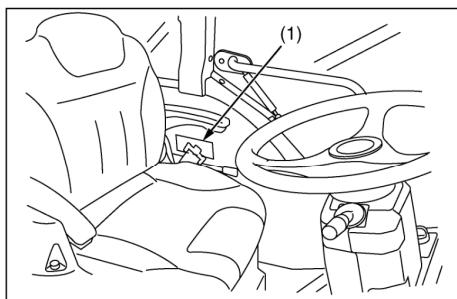
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9Y1210624IC1005US

9Y1210624INI0005US0

(1) Part No. TD170-4933-1 [HST type]



9Y1210624ICI006US

9Y1210624INI0006US0

#### **CARE OF DANGER, WARNING AND CAUTION LABELS**

1. Keep danger, warning and caution labels clean and free from obstructing material.
2. Clean danger, warning and caution labels with soap and water, dry with a soft cloth.
3. Replace damaged or missing danger, warning and caution labels with new labels.
4. If a component with danger, warning and caution label(s) affixed is replaced with new part, make sure new label(s) is (are) attached in the same location(s) as the replace component.
5. Mount new danger, warning and caution labels by applying on a clean dry surface and pressing any bubbles to outside edge.

9Y1210624INI0007US0

### 3. SPECIFICATIONS

#### [Manual Transmission Model with ROPS]

Model		L3240
		4WD
Engine	Model	D1703-M-E2-GST1
	Type	Indirect injection vertical, water-cooled, 4-cycle diesel
	Number of cylinders	3
	Total displacement	1.647 L (100.5 cu.in.)
	Bore and stroke	87 × 92.4 mm (3.4 × 3.6 in.)
	Net power*	23.9 kW (32.0 HP)
	PTO power* (factory observe)	19.8 kW (26.5 HP)* / 2700 min <sup>-1</sup> (rpm)
	Maximum torque	101.7 N·m (10.4 kgf·m, 75.0 lbf·ft)
Capacities	Battery capacity	12 V, RC: 123 min, CCA: 490 A
	Fuel	Diesel fuel No. 1 [below -10 °C (14 °F), Diesel fuel No. 2-D [above -10 °C (14 °F)]]
	Fuel tank	44 L (11.6 U.S.gals, 9.68 Imp.gals)
	Engine crankcase (with filter)	5.7 L (6.0 U.S.qts, 5.0 Imp.qts)
Dimensions	Engine coolant	6.0 L (6.3 U.S.qts, 5.3 Imp.qts)
	Transmission case	42 L (11.1 U.S.gals, 9.24 Imp.gals)
	Overall length (without 3P)	2960 mm (116.5 in.)
	Overall width (min. tread)	1520 mm (59.84 in.)
	Overall height (with ROPS)	2385 mm (93.90 in.)
	Wheel base	1805 mm (71.06 in.)
Travelling system	Min. ground clearance	350 mm (13.8 in.)
	Tread	Front 1155 mm (45.47 in.)
		Rear 1200 mm (47.24 in.), 1300 mm (51.18 in.), 1385 mm (54.53 in.), 1480 mm (58.27 in.)
Weight (with ROPS)		1475 kg (3155 lbs)
Hydraulic unit	Standard tire size	Front 7-16
		Rear 12.4-24
	Clutch	Dry type single stage
	Steering	Hydrostatic power steering
	Transmission	8 forward and 8 reverse fully synchronized main and shuttle transmission
	Braking system	Wet disc type
	Min. turning radius (with brake)	2.7 m (8.5 feet)
PTO	Hydraulic control system	Position control
	Pump capacity	31.5 L (8.3 U.S.gals, 6.9 Imp.gals) / min.
	Three point hitch	SAE Category 1
	Max. lift force	At lift points 1700 kg (3750 lbs)
		24 in. behind lift points 1200 kg (2650 lbs)
System pressure		17.7 MPa (180 kgf/cm <sup>2</sup> , 2560 psi)

#### ■ NOTE

- \* Manufacturer's estimate

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

## [HST Model with ROPS]

Model		L3240	L3540	L4240	L5240	L5740			
		4WD							
Engine	Model	D1703-M-E2-HST1	D1803-M-E2-HST1	V2203-M-E2-HST1	V2403-M-TE2-HST1	V2403-M-TE2-HST2			
	Type	Indirect injection vertical, water-cooled, 4-cycle diesel							
	Number of cylinders	3		4					
	Total displacement	1.647 L (100.5 cu.in.)	1.826 L (111.4 cu.in.)	2.197 L (134.0 cu.in.)	2.434 L (148.5 cu.in.)				
	Bore and stroke	87 × 92.4 mm (3.4 × 3.6 in.)	87 × 102.4 mm (3.4 × 4.0 in.)	87 × 92.4 mm (3.4 × 3.6 in.)	87 × 102.4 mm (3.4 × 4.0 in.)				
	Net power*	23.9 kW (32.0 HP)	26.1 kW (35.0 HP)	31.3 kW (42.0 HP)	38.8 kW (52.0 HP)	42.5 kW (57.0 HP)			
	PTO power* (factory observe)	18.7 kW (25.1 HP)* / 2700 min <sup>-1</sup> (rpm)	20.9 kW (28.0 HP)* / 2700 min <sup>-1</sup> (rpm)	26.1 kW (35.0 HP) / 2700 min <sup>-1</sup> (rpm)	33.6 kW (45.0 HP) / 2600 min <sup>-1</sup> (rpm)	37.3 kW (50.0 HP) / 2700 min <sup>-1</sup> (rpm)			
	Maximum torque	101.7 N·m (10.4 kgf·m, 75.0 lbf·ft)	112.8 N·m (11.5 kgf·m, 83.2 lbf·ft)	139.7 N·m (14.2 kgf·m, 103.0 lbf·ft)	180.6 N·m (18.4 kgf·m, 13.8 lbf·ft)				
	Battery capacity	12 V, RC: 123 min, CCA: 490 A	12 V, RC: 133 min, CCA: 582 A						
	Fuel	Diesel fuel No. 1 [below -10 °C (14 °F], Diesel fuel No. 2-D [above -10 °C (14 °F)]							
Capacities	Fuel tank	44 L (11.6 U.S.gals, 9.68 Imp.gals)		50 L (13.2 U.S.gals, 11.0 Imp.gals)	54 L (14.3 U.S.gals, 11.9 Imp.gals)				
	Engine crankcase (with filter)	5.7 L (6.0 U.S.qts, 5.0 Imp.qts)	6.7 L (7.1 U.S.qts, 5.9 Imp.qts)	8.2 L (8.7 U.S.qts, 7.2 Imp.qts)	9.4 L (9.9 U.S.qts, 8.3 Imp.qts)				
	Engine coolant	6.0 L (6.3 U.S.qts, 5.3 Imp.qts)	7.5 L (7.9 U.S.qts, 6.6 Imp.qts)		8.2 L (8.7 U.S.qts, 7.2 Imp.qts)				
	Transmission case	42 L (11.1 U.S.gals, 9.24 Imp.gals)		43 L (11.4 U.S.gals, 9.46 Imp.gals)	45 L (11.9 U.S.gals, 9.90 Imp.gals)				
Dimensions	Overall length (without 3P)	2960 mm (116.5 in.)		3125 mm (123.0 in.)	3250 mm (128.0 in.)				
	Overall width (min. tread)	1520 mm (59.84 in.)		1665 mm (65.55 in.)	1570 mm (61.81 in.)				
	Overall height (with ROPS)	2385 mm (93.90 in.)		2405 mm (94.68 in.)	2490 mm (98.03 in.)				
	Wheel base	1805 mm (71.06 in.)		1895 mm (74.61 in.)	1915 mm (75.39 in.)				
	Min. ground clearance	350 mm (13.8 in.)		375 mm (14.8 in.)	400 mm (15.7 in.)				
	Tread	Front	1155 mm (45.47 in.)		1300 mm (51.18 in.)	1340 mm (52.86 in.)			
		Rear	1200 mm (47.24 in.), 1300 mm (51.18 in.), 1385 mm (54.53 in.), 1480 mm (58.27 in.)		1285 mm (50.59 in.), 1435 mm (56.50 in.), 1530 mm (60.24 in.)	1225 mm (48.23 in.), 1325 mm (52.17 in.), 1425 mm (56.10 in.), 1525 mm (60.04 in.)			
Weight (with ROPS)			1540 kg (3395 lbs)		1665 kg (3671 lbs)	1745 kg (3847 lbs)			
Travelling system	Standard tire size	Front	7-16		8-16	9.5-16			
		Rear	12.4-24		14.9-24	13.6-28			
	Clutch		Dry type single stage						
	Steering		Hydrostatic power steering						
	Transmission		Hydrostatic transmission (3 speeds)						
	Braking system		Wet disc type						
	Min. turning radius (with brake)		2.7 m (8.9 feet)			2.8 m (9.2 feet)			

Model	L3240	L3540	L4240	L5240	L5740	
	4WD					
Hydraulic unit	Hydraulic control system	Position control				
	Pump capacity	31.5 L (8.3 U.S.gals, 6.9 Imp.gals) / min.	37.0 L (9.8 U.S.gals, 8.1 Imp.gals) / min.	35.6 L (9.4 U.S.gals, 7.8 Imp.gals) / min.	37.0 L (9.8 U.S.gals, 8.1 Imp.gals) / min.	
	Three point hitch	SAE Category 1		SAE Category 1, 2		
	Max. lift force	At lift points	1700 kg (3750 lbs)	1750 kg (3860 lbs)		
		24 in. behind lift points	1200 kg (2650 lbs)	1250 kg (2760 lbs)	1350 kg (2980 lbs)	
	System pressure	17.7 MPa (180 kgf/cm <sup>2</sup> , 2560 psi)				
PTO	Rear PTO	SAE 1-3/8, 6 splines				
	PTO / Engine speed	540 min <sup>-1</sup> (rpm) / 2685 min <sup>-1</sup> (rpm)	540 min <sup>-1</sup> (rpm) / 2640 min <sup>-1</sup> (rpm)	540 min <sup>-1</sup> (rpm) / 2590 min <sup>-1</sup> (rpm)		
	Mid-PTO (if equipped)	USA No. 5 (KUBOTA 10-tooth) involute spline				
	PTO / Engine speed	2000 min <sup>-1</sup> (rpm) / 2715 min <sup>-1</sup> (rpm)	2000 min <sup>-1</sup> (rpm) / 2670 min <sup>-1</sup> (rpm)	2000 min <sup>-1</sup> (rpm) / 2615 min <sup>-1</sup> (rpm)		

**■ NOTE**

- \*Manufacturer's estimate

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

## [HST Model with CABIN]

Model		L4240	L5240	L5740
		4WD		
Engine	Model	V2203-M-E2-HST1		V2403-M-TE2-HST1
	Type	Indirect injection vertical, water-cooled, 4-cycle diesel		
	Number of cylinders	4		
	Total displacement	2.197 L (134.0 cu.in.)		2.434 L (148.5 cu.in.)
	Bore and stroke	87 x 92.4 mm (3.4 x 3.6 in.)		87 x 102.4 mm (3.4 x 4.0 in.)
	Net power*	31.3 kW (42.0 HP)		38.8 kW (52.0 HP)
	PTO power* (factory observe)	26.1 kW (35.0 HP) / 2700 min <sup>-1</sup> (rpm)		33.6 kW (45.0 HP) / 2600 min <sup>-1</sup> (rpm)
	Maximum torque	139.7 N·m (14.2 kgf·m, 103.0 lbf·ft)		180.6 N·m (18.42 kgf·m, 13.8 lbf·ft)
	Battery capacity	12 V, RC: 133 min, CCA: 582 A		
Fuel		Diesel fuel No. 1 [below -10 °C (14 °F), Diesel fuel No. 2-D [above -10 °C (14 °F)]		
Capacities	Fuel tank	50 L (13.2 U.S.gals, 11.0 Imp.gals)	54 L (14.3 U.S.gals, 11.9 Imp.gals)	
	Engine crankcase (with filter)	8.2 L (8.7 U.S.qts, 7.2 Imp.qts)	9.4 L (9.9 U.S.qts, 8.3 Imp.qts)	
	Engine coolant	7.5 L (7.9 U.S.qts, 6.6 Imp.qts)	8.2 L (8.7 U.S.qts, 7.2 Imp.qts)	
	Transmission case	43 L (11.4 U.S.gals, 9.46 Imp.gals)	45 L (11.9 U.S.gals, 9.90 Imp.gals)	
Dimensions	Overall length (without 3P)	3125 mm (123.0 in.)		3250 mm (128.5 in.)
	Overall width (min. tread)	1665 mm (65.55 in.)		1570 mm (61.81 in.)
	Overall height (with CABIN)	2295 mm (90.35 in.)		2405 mm (94.68 in.)
	Wheel base	1895 mm (74.61 in.)		1915 mm (75.39 in.)
	Min. ground clearance	375 mm (14.8 in.)		400 mm (15.7 in.)
	Tread	Front	1300 mm (51.18 in.)	
		Rear	1285 mm (50.59 in.), 1435 mm (56.50 in.), 1530 mm (60.24 in.)	
Weight (with CABIN)		1815 kg (4001 lbs)		1920 kg (4233 lbs)
Travelling system	Standard tire size	Front	8-16	
		Rear	14.9-24	
	Clutch		Dry type single stage	
	Steering		Hydrostatic power steering	
	Transmission		Hydrostatic transmission (3 speeds)	
	Braking system		Wet disc type	
Min. turning radius (with brake)		2.7 m (8.9 feet)	2.8 m (9.2 feet)	
Hydraulic unit	Hydraulic control system		Position control	
	Pump capacity		37.0 L (9.8 U.S.gals, 8.1 Imp.gals) / min.	35.6 L (9.4 U.S.gals, 7.8 Imp.gals) / min.
	Three point hitch		SAE Category 1	SAE Category 1, 2
	Max. lift force	At lift points	1750 kg (3860 lbs)	
		24 in. behind lift points	1250 kg (2760 lbs)	1350 kg (2980 lbs)
	System pressure		17.7 MPa (180 kgf/cm <sup>2</sup> , 2560 psi)	
PTO	Rear PTO		SAE 1-3/8, 6 splines	
	PTO / Engine speed		540 min <sup>-1</sup> (rpm) / 2640 min <sup>-1</sup> (rpm)	540 min <sup>-1</sup> (rpm) / 2590 min <sup>-1</sup> (rpm)
	Mid-PTO (if equipped)		USA No. 5 (KUBOTA 10-tooth) involute spline	
	PTO / Engine speed		2000 min <sup>-1</sup> (rpm) / 2670 min <sup>-1</sup> (rpm)	2000 min <sup>-1</sup> (rpm) / 2615 min <sup>-1</sup> (rpm)

## ■ NOTE

- \*Manufacturer's estimate

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

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## 4. TRAVELING SPEEDS

### [Manual Transmission Model]

Model			L3240	
Tire size (Rear)			12.4-24	
Shuttle shift lever	Range gear shift lever	Main gear shift lever	km/h (mph)	
Forward	Low	1	1.6 (1.0)	
		2	2.3 (1.4)	
		3	3.7 (2.3)	
		4	5.3 (3.3)	
	High	1	7.7 (4.8)	
		2	11.0 (6.84)	
		3	17.8 (11.1)	
		4	26.3 (16.3)	
Reverse	Low	1	1.5 (0.9)	
		2	2.2 (1.4)	
		3	3.5 (2.2)	
		4	5.1 (3.2)	
	High	1	7.4 (4.6)	
		2	10.5 (6.52)	
		3	17.0 (10.6)	
		4	25.1 (15.6)	

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

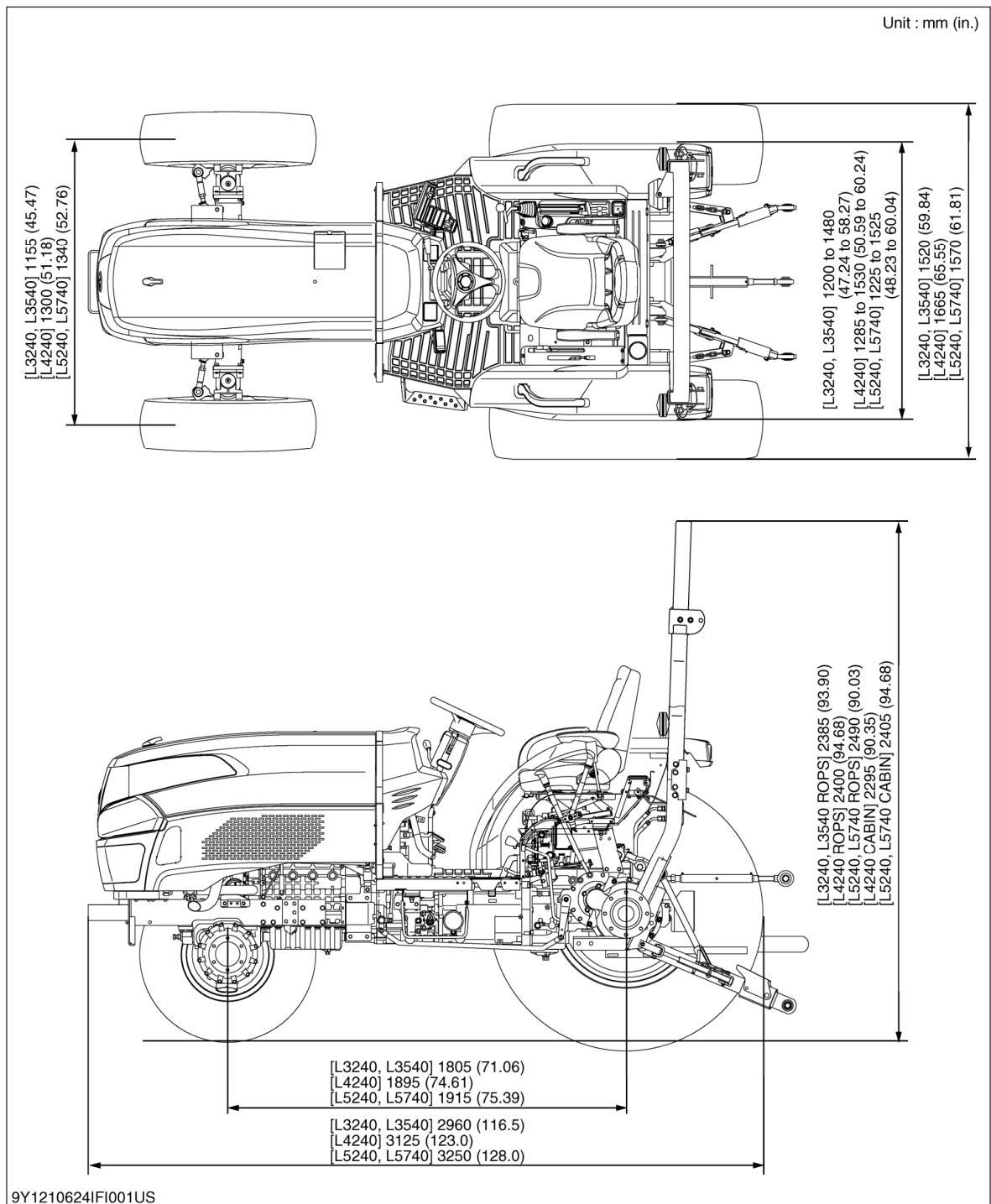
### [HST Model]

Model			L3240	L4240	L5240	L5740
L3540						
Tire size (Rear)			12.4-24	14.9-24	13.6-28	
Speed control pedal	H-DS lever	Range gear shift lever	km/h (mph)			
Forward	L	L	3.5 (2.2)	3.6 (2.2)	3.4 (2.1)	3.6 (2.2)
		M	7.1 (4.4)	7.3 (4.5)	7.0 (4.3)	7.3 (4.5)
		H	15.0 (9.32)	15.5 (9.63)	14.9 (9.3)	15.5 (9.6)
		L	5.8 (3.6)	6.0 (3.7)	5.8 (3.6)	6.0 (3.7)
	H	M	11.8 (7.33)	12.3 (7.64)	11.8 (7.3)	12.2 (7.6)
		H	25.0 (15.5)	26.0 (16.2)	24.9 (15.5)	25.9 (16.1)
		L	3.1 (1.9)	3.2 (2.0)	3.1 (1.9)	3.2 (2.0)
		M	6.4 (4.0)	6.6 (4.1)	6.3 (3.9)	6.6 (4.1)
Reverse	L	H	13.5 (8.39)	13.9 (8.6)	13.4 (8.3)	13.9 (8.6)
		L	5.2 (3.2)	5.4 (3.4)	5.2 (3.2)	5.4 (3.4)
		M	10.6 (6.59)	11.0 (6.84)	10.6 (6.6)	11.0 (6.8)
	H	H	22.5 (14.0)	23.2 (14.4)	22.4 (13.9)	23.3 (14.5)

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

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## 5. DIMENSIONS



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9Y1210624IN10010USO

# **G GENERAL**

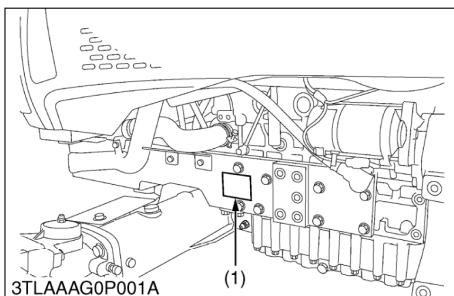
# GENERAL

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# 1. TRACTOR IDENTIFICATION

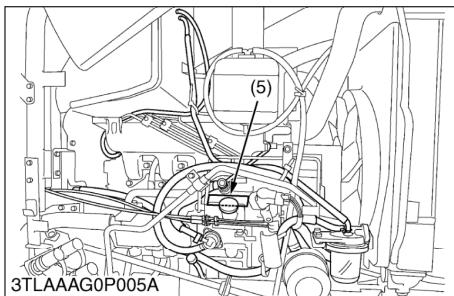
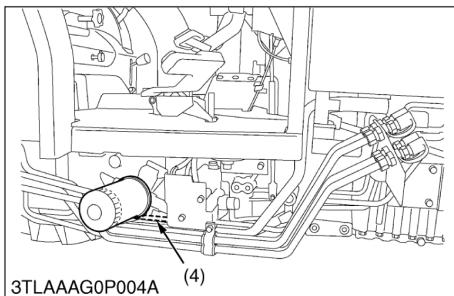
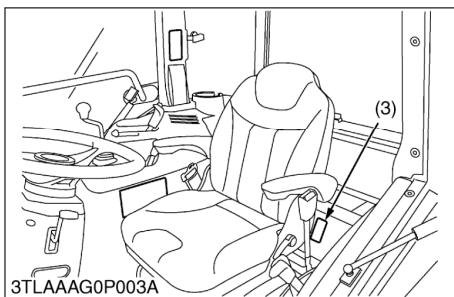
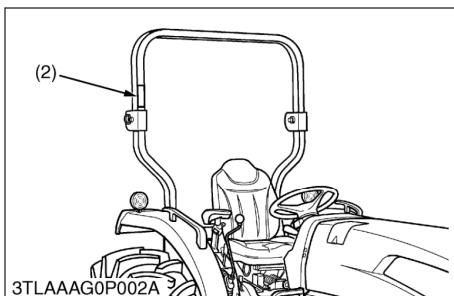
## [1] MODEL NAME AND SERIAL NUMBERS



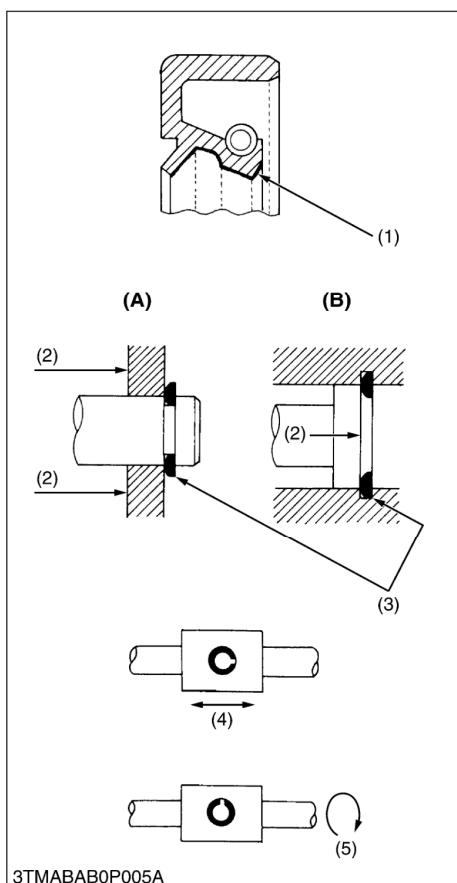
When contacting your local KUBOTA distributor, always specify engine serial number, tractor serial number and hour meter reading.

- (1) Tractor Identification Plate
- (2) ROPS Identification Plate (ROPS Serial Number)
- (3) CABIN Identification Plate (CABIN Serial Number)
- (4) Tractor Serial Number
- (5) Engine Serial Number

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## 2. GENERAL PRECAUTIONS



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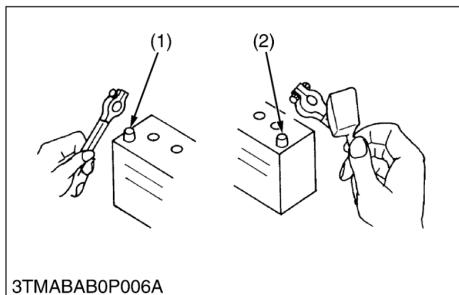
- When you disassemble, carefully put the parts in a clean area to make it easy to find the parts. You must install the screws, bolts and nuts in their initial position to prevent the reassembly errors.
- When it is necessary to use special tools, use KUBOTA special tools. Refer to the drawings when you make special tools that you do not use frequently.
- Before you disassemble or repair machine, make sure that you always disconnect the ground cable from the battery first.
- Remove oil and dirt from parts before you measure.
- Use KUBOTA genuine parts for replacement to keep the machine performance and to make sure of safety.
- You must replace the gaskets and O-rings when you assemble again. Apply grease (1) to new O-rings or oil seals before you assemble.
- When you assemble the external or internal snap rings, make sure that the sharp edge (3) faces against the direction from which force (2) is applied.
- When inserting spring pins, their splits must face the direction from which a force is applied. See the figure on the left side.
- To prevent damage to the hydraulic system, use only specified fluid or equivalent.
- Clean the parts before you measure them.
- Tighten the fittings to the specified torque. Too much torque can cause damage to the hydraulic units or the fittings. Not sufficient torque can cause oil leakage.
- When you use a new hose or pipe, tighten the nuts to the specified torque. Then loosen (approx. by 45°) and let them be stable before you tighten to the specified torque (This is not applied to the parts with seal tape).
- When you remove the two ends of a pipe, remove the lower end first.
- Use two pliers in removal and installation. One to hold the stable side, and the other to turn the side you remove to prevent twists.
- Make sure that the sleeves of flared connectors and tapers of hoses are free of dust and scratches.
- After you tighten the fittings, clean the joint and apply the maximum operation pressure 2 to 3 times to check oil leakage.

(1) Grease  
 (2) Force  
 (3) Sharp Edge  
 (4) Axial Force  
 (5) Rotating Movement

(A) External Cir-clip  
 (B) Internal Cir-clip

WSM000001GEG0106US0

### 3. HANDLING PRECAUTIONS FOR ELECTRICAL PARTS AND WIRING



To ensure safety and prevent damage to the machine and surrounding equipment, obey the following precautions in handling electrical parts and wiring.

#### ■ IMPORTANT

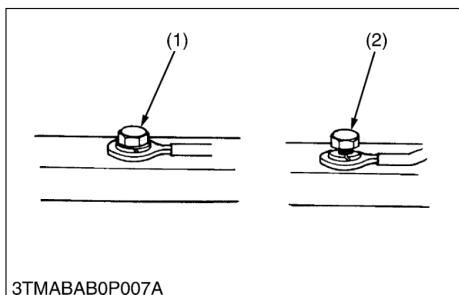
- Check electrical wiring for damage and loosened connection every year. To this end, educate the customer to do his or her own check and at the same time recommend the dealer to perform periodic check for a fee.
- Do not try to modify or remodel any electrical parts and wiring.
- When removing the battery cables, disconnect the negative cable first. When installing the battery cables, connect the positive cable first.

(1) Negative Terminal

(2) Positive Terminal

WSM000001GEG0062US0

#### [1] WIRING

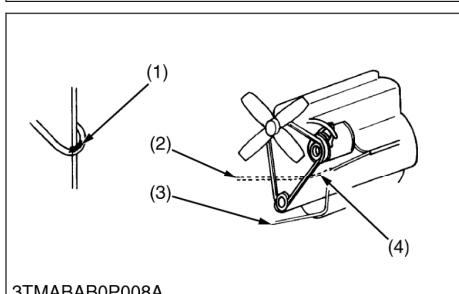


- Securely tighten wiring terminals.

(1) Correct  
(Securely Tighten)

(2) Incorrect  
(Loosening Leads to damaged Contact)

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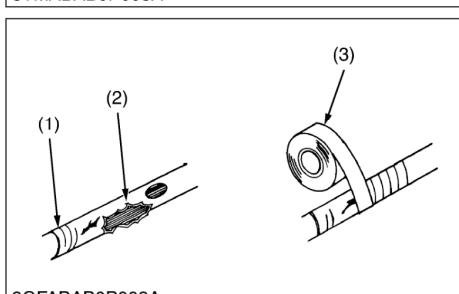


- Do not let wiring contact dangerous part.

(1) Dangerous Part (Sharp Edge)  
(2) Wiring (Incorrect)

(3) Wiring (Correct)  
(4) Dangerous Part

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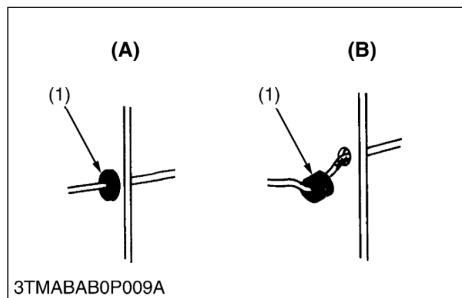


- Repair or change torn or aged wiring immediately.

(1) Aged  
(2) Torn

(3) Insulating Vinyl Tape

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3TMABAB0P009A

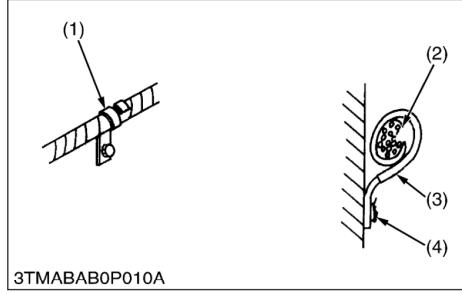
- Securely insert grommet.

(1) Grommet

(A) Correct

(B) Incorrect

WSM000001CEG0066US0



3TMABAB0P010A

- Securely clamp, being careful not to damage wiring.

(1) Clamp

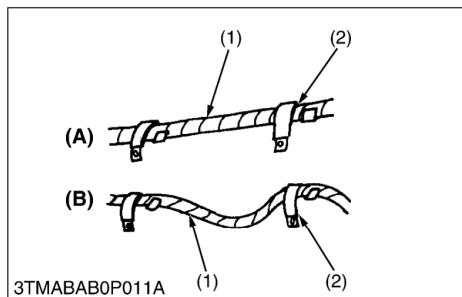
(3) Clamp

(Wind Clamp Spirally)

(4) Welding Dent

(2) Wire Harness

WSM000001GEG0067US0



3TMABAB0P011A

- Clamp wiring so that there is no twist, unnecessary sag, or excessive tension, except for movable part, where sag be required.

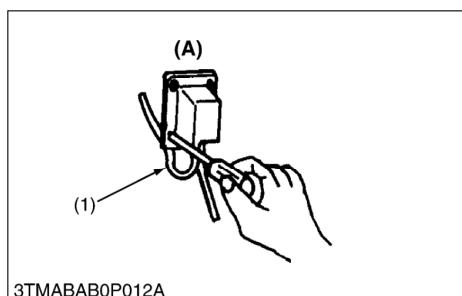
(1) Wiring

(A) Correct

(2) Clamp

(B) Incorrect

WSM000001GEG0068US0



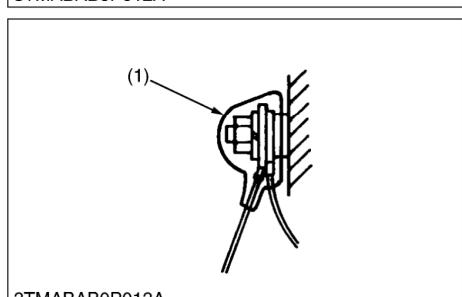
3TMABAB0P012A

- In installing a part, be careful not to get wiring caught by it.

(1) Wiring

(A) Incorrect

WSM000001GEG0069US0



3TMABAB0P013A

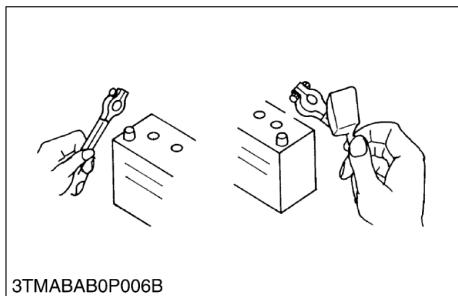
- After installing wiring, check protection of terminals and clamped condition of wiring.

(1) Cover

(Securely Install Cover)

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## [2] BATTERY



3TMABAB0P006B

- Be careful not to confuse positive and negative terminal posts.
- When you remove battery cables, disconnect negative cable first. When you install battery cables, check for polarity and connect positive cable first.
- Do not install any battery with capacity other than is specified (Ah).
- After you connect cables to battery terminal posts, apply high temperature grease to them and securely install terminal covers on them.
- Do not allow dirt and dust to collect on battery.

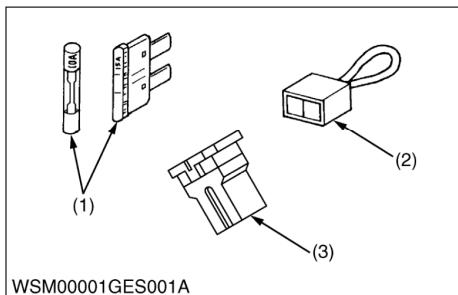
### DANGER

#### To avoid serious injury or death:

- Be careful not to let battery liquid spill on your skin and clothes. If contaminated, wash it off with water immediately.
- Before you recharge the battery, remove it from the machine.
- Before you recharge, remove cell caps.
- Recharge in a well-ventilated place where there is no open flame nearby, as hydrogen gas and oxygen are formed.

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## [3] FUSE



WSM000001GES001A

- Use fuses with specified capacity. Neither too large nor small capacity fuse is acceptable.
- Never use steel nor copper wire in place of fuse.
- Do not install working light, radio set, etc. on machine which is not provided with reserve power supply.
- Do not install accessories if fuse capacity of reserve power supply is exceeded.

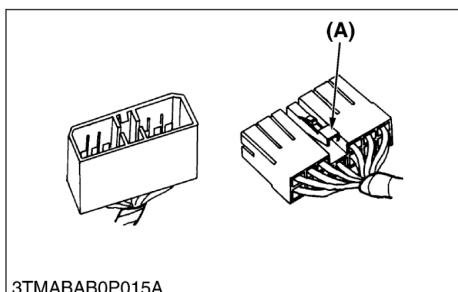
(1) Fuse

(2) Fusible Link

(3) Slow Blow Fuse

WSM000001GEG0072US0

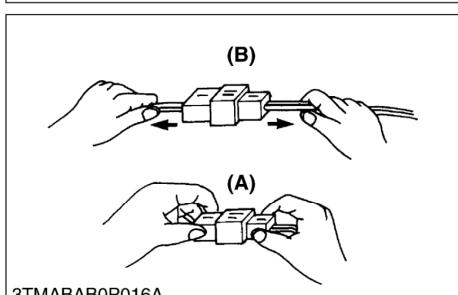
## [4] CONNECTOR



3TMABAB0P015A

(A) Push

WSM000001GEG0073US0



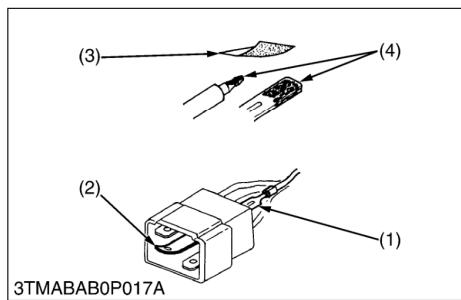
3TMABAB0P016A

(A) Correct

(B) Incorrect

WSM000001GEG0074US0

- For connector with lock, push lock to separate.
- In separating connectors, do not pull wire harnesses.
- Hold connector bodies to separate.

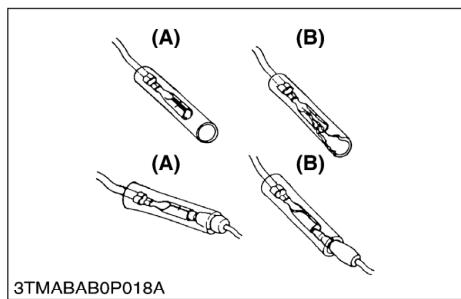


- Use sandpaper to remove rust from terminals.
- Repair deformed terminal. Make sure that there is no terminal being exposed or displaced.

(1) Exposed Terminal  
(2) Deformed Terminal

(3) Sandpaper  
(4) Rust

WSM000001GEG0075US0

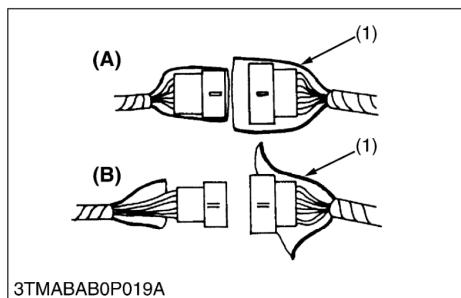


- Make sure that there is no female connector being too open.

(A) Correct

(B) Incorrect

WSM000001GEG0076US0



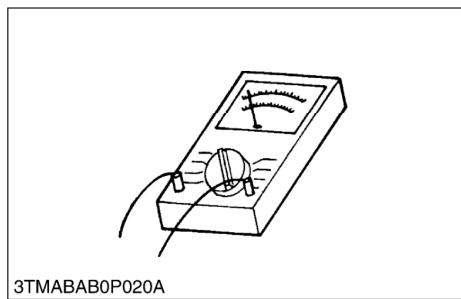
- Make sure that plastic cover is large enough to cover whole connector.

(1) Cover

(A) Correct  
(B) Incorrect

WSM000001GEG0077US0

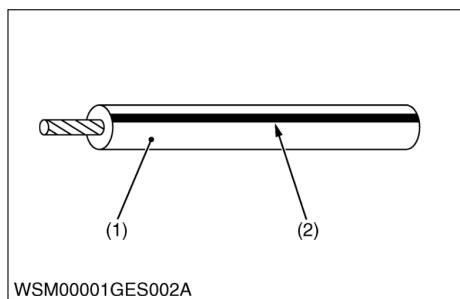
## [5] HANDLING OF CIRCUIT TESTER



- Use tester correctly following manual provided with tester.
- Check for polarity and range.

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## [6] COLOR OF WIRING



- Colors of wire are specified to the color codes.
- This symbol of "/" shows color with stripe (s).

**(An example)**

Red stripe on white color: W/R

Color of wiring	Color code
Black	B
Brown	Br
Green	G
Gray	Gy or Gr
Blue	L
Light Green	Lg
Orange	Or
Pink	P
Purple	Pu or V
Red	R
Sky Blue	Sb
White	W
Yellow	Y

(1) Wire Color

(2) Stripe

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Full Download: <https://www.arepairmanual.com/downloads/kubota-l5240-3-l5740-3-l3240-3-l3540-3-l4240-3-service-manual/>

## 4. LUBRICANTS, FUEL AND COOLANT

No.	Place	Capacity			Lubricants, fuel and coolant
		L3240	L3540	L4240	
1	Fuel tank	44 L 11.6 U.S.gals 9.68 Imp.gals		50 L 13.2 U.S.gals 11.0 Imp.gals	<ul style="list-style-type: none"> <li>No. 2-D diesel fuel</li> <li>No. 1-D diesel fuel if temperature is below -10 °C (14 °F)</li> </ul>
2	Cooling system	6.0 L 6.3 U.S.qts 5.3 Imp.qts	7.5 L 7.9 U.S.qts 6.6 Imp.qts		Fresh clean water with anti-freeze
	Recovery tank	1.0 L 1.1 U.S.qts 0.88 Imp.qts			
3	Engine crankcase (with filter)	5.7 L 6.0 U.S.qts 5.0 Imp.qts	6.7 L 7.1 U.S.qts 5.9 Imp.qts	8.2 L 8.7 U.S.qts 7.2 Imp.qts	<b>Engine oil</b> API Service Classification CF or better <ul style="list-style-type: none"> <li>Above 25 °C (77 °F) SAE30, 10W-30 or 15W-40</li> <li>0 to 25 °C (32 to 77 °F) SAE20, 10W-30 or 15W-40</li> <li>Below 0 °C (32 °F) SAE10W, 10W-30 or 15W-40</li> </ul>
4	Transmission case	42 L 11.1 U.S.gals 9.2 Imp.gals		43 L 11.4 U.S.gals 9.5 Imp.gals	KUBOTA UDT or SUPER UDT fluid*
5	Front axle case (4WD)	6.5 L 6.9 U.S.qts 5.7 Imp.qts		9.0 L 9.5 U.S.qts 7.9 Imp.qts	KUBOTA UDT or SUPER UDT fluid* or SAE 80-90 gear oil

### Greasing

No.	Place	No. of greasing point		Capacity	Type of grease		
6	Front axle case support	—	2	Until grease overflows	Multipurpose grease NLGI-2 or NLGI-1 (GC-LB)		
	Front axle support	2					
	Top link	2					
	Top link bracket	2 (with draft control) (if equipped)					
	Lift rod	1					
	Lift cylinder	4					
	Battery terminal	2		Moderate amount	Engine oil		
	Throttle cable	Oiling					

#### ■ NOTE

- \* KUBOTA UDT or SUPER UDT fluid: KUBOTA original transmission hydraulic fluid.