

Product: 2002 Kubota WSM L3130,L3430,L3830,L4330,L4630,L5030 Tractor Service Repair Workshop Manual
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WSM

WORKSHOP MANUAL TRACTOR

**L3130 • L3430 • L3830
L4330 • L4630 • L5030**

Kubota

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TO THE READER

This Workshop Manual has been prepared to provide servicing personnel with information on the mechanism, service and maintenance of KUBOTA Tractor L3130, L3430, L3830, L4330, L4630 and L5030. It is divided into two parts, "Mechanism" and "Servicing" for each section.

■ Mechanism

Information on the construction and function are included. This part should be understood before proceeding with troubleshooting, disassembling and servicing.

Refer to Diesel engine / Tractor Mechanism Workshop Manual (Code No. 97897-01872 / 97897-18200) for the one which has not been described to this workshop manual.

■ Servicing

The heading "General" includes general precautions, check and maintenance and special tools. Other section, there are troubleshooting, servicing specification lists, checking and adjusting, disassembling and assembling, and servicing which cover procedures, precautions, factory specifications and allowable limits.

All information illustrations and specifications contained in this manual are based on the latest product information available at the time of publication.

The right is reserved to make changes in all information at any time without notice.

September 2002

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 **SAFETY FIRST**

This symbol, the industry’s “Safety Alert Symbol”, is used throughout this manual and on labels on the machine itself to warn of the possibility of personal injury. Read these instructions carefully.

It is essential that you read the instructions and safety regulations before you attempt to repair or use this unit.

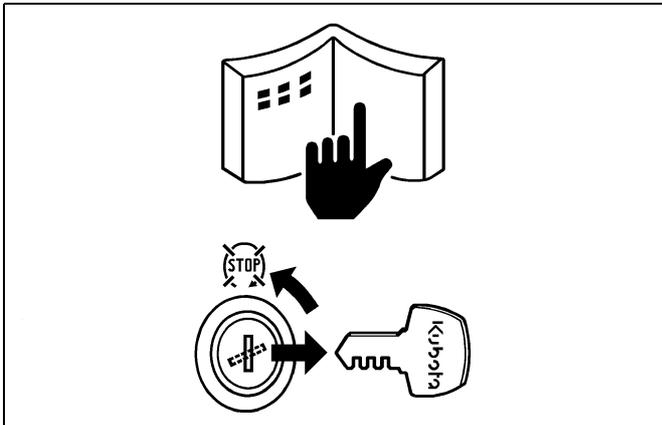
 **DANGER** : Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

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

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

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

■ **NOTE** : Gives helpful information.



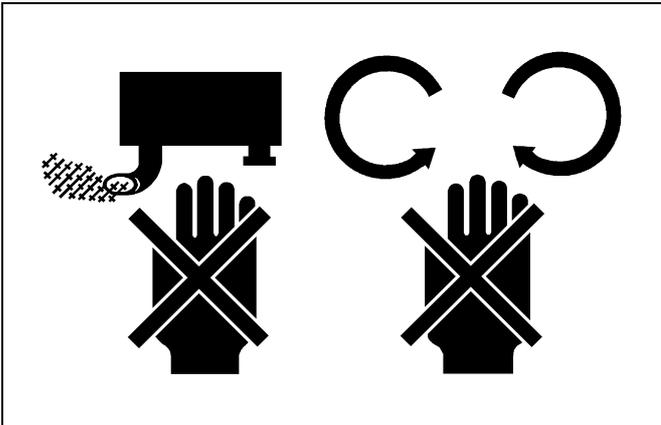
BEFORE SERVICING AND REPAIRING

- Read all instructions and safety instructions in this manual and on your machine safety decals.
- Clean the work area and machine.
- Park the machine on a firm and level ground, and set the parking brake.
- Lower the implement to the ground.
- Stop the engine, and remove the key.
- Disconnect the battery negative cable.
- Hang a “**DO NOT OPERATE**” tag in operator station.



SAFETY STARTING

- Do not start the engine by shorting across starter terminals or bypassing the safety start switch.
- Do not alter or remove any part of machine safety system.
- Before starting the engine, make sure that all shift levers are in neutral positions or in disengaged positions.
- Never start the engine while standing on ground. Start the engine only from operator's seat.



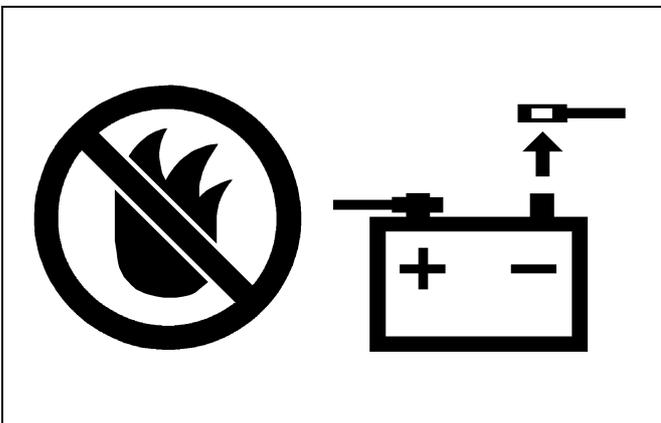
SAFETY WORKING

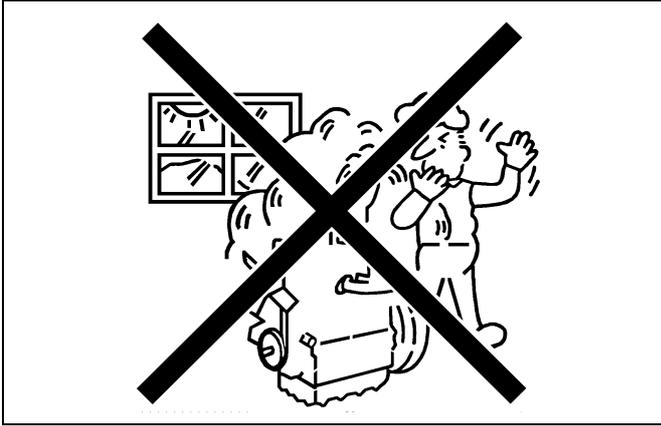
- Do not work on the machine while under the influence of alcohol, medication, or other substances or while fatigued.
- Wear close fitting clothing and safety equipment appropriate to the job.
- Use tools appropriate to the work. Makeshift tools, parts, and procedures are not recommended.
- When servicing is performed together by two or more persons, take care to perform all work safely.
- Do not work under the machine that is supported solely by a jack. Always support the machine by safety stands.
- Do not touch the rotating or hot parts while the engine is running.
- Never remove the radiator cap while the engine is running, or immediately after stopping. Otherwise, hot water will spout out from radiator. Only remove radiator cap when cool enough to touch with bare hands. Slowly loosen the cap to first stop to relieve pressure before removing completely.
- Escaping fluid (fuel or hydraulic oil) under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or fuel lines. Tighten all connections before applying pressure.



AVOID FIRES

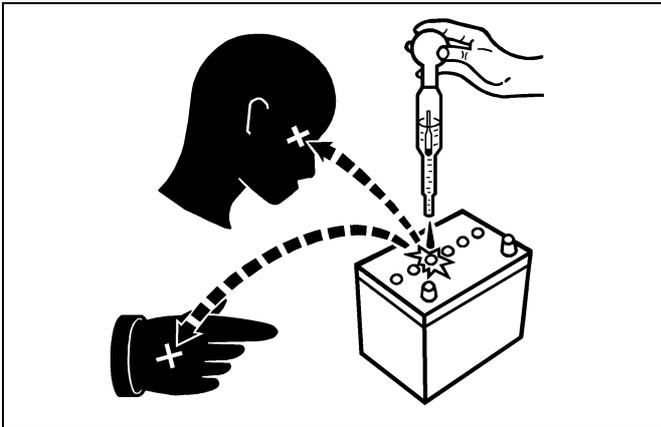
- Fuel is extremely flammable and explosive under certain conditions. Do not smoke or allow flames or sparks in your working area.
- To avoid sparks from an accidental short circuit, always disconnect the battery negative cable first and connect it last.
- Battery gas can explode. Keep sparks and open flame away from the top of battery, especially when charging the battery.
- Make sure that no fuel has been spilled on the engine.





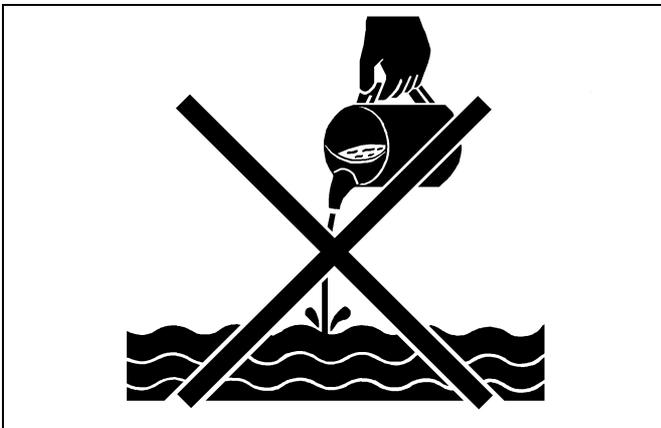
VENTILATE WORK AREA

- If the engine must be running to do some work, make sure the area is well ventilated. Never run the engine in a closed area. The exhaust gas contains poisonous carbon monoxide.



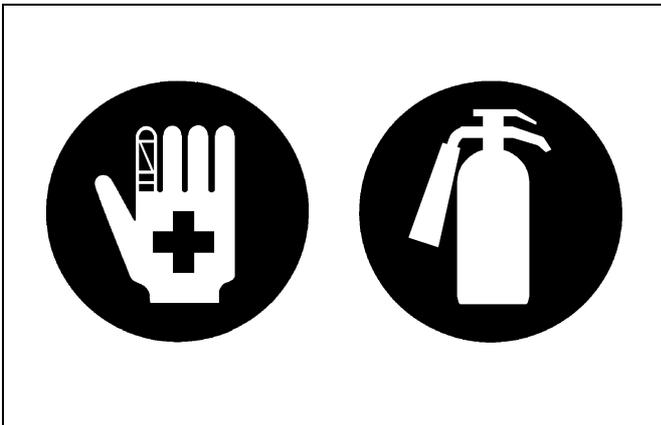
PREVENT ACID BURNS

- Sulfuric acid in battery electrolyte is poisonous. It is strong enough to burn skin, clothing and cause blindness if splashed into eyes. Keep electrolyte away from eyes, hands and clothing. If you spill electrolyte on yourself, flush with water, and get medical attention immediately.



DISPOSE OF FLUIDS PROPERLY

- Do not pour fluids into the ground, down a drain, or into a stream, pond, or lake. Observe relevant environmental protection regulations when disposing of oil, fuel, coolant, electrolyte and other harmful waste.



PREPARE FOR EMERGENCIES

- Keep a first aid kit and fire extinguisher handy at all times.
- Keep emergency numbers for doctors, ambulance service, hospital and fire department near your telephone.

SAFETY DECALS

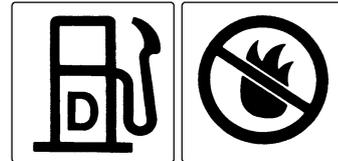
The following safety decals are installed on the machine.

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

(1) Part No. TA040-4965-2

	⚠ DANGER
	<p>TO AVOID POSSIBLE INJURY OR DEATH FROM A MACHINE RUNAWAY.</p> <ol style="list-style-type: none"> 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. Start engine only from operator's seat with transmission and PTO OFF. Never start engine while standing on the ground.

(4) Part No. TA040-4956-2
Diesel fuel only. No fire



(2) Part No. TA040-4932-2 [Rigid ROPS Type]

	⚠ WARNING
	<p>TO AVOID PERSONAL INJURY OR DEATH FROM ROLL-OVER:</p> <ol style="list-style-type: none"> Kubota recommends the use of a Roll-Over Protective Structures (ROPS) and seat belt in almost all applications. Remove the ROPS only when it substantially interferes with operation or itself presents a safety risk. (Examples include work in orchards and vineyards) ALWAYS REINSTALL IT BEFORE USING THE TRACTOR IN OTHER APPLICATIONS. Never use just the seat belt or just the ROPS. They must be used together. For further details, consult your Operator's Manual or your local dealer.

(5) Part No. TA040-4934-1

⚠ WARNING
<p>TO AVOID PERSONAL INJURY: Do not operate rear-PTO driven implements and mid-PTO driven implements at the same time.</p>

(3) Part No. TA040-4959-3

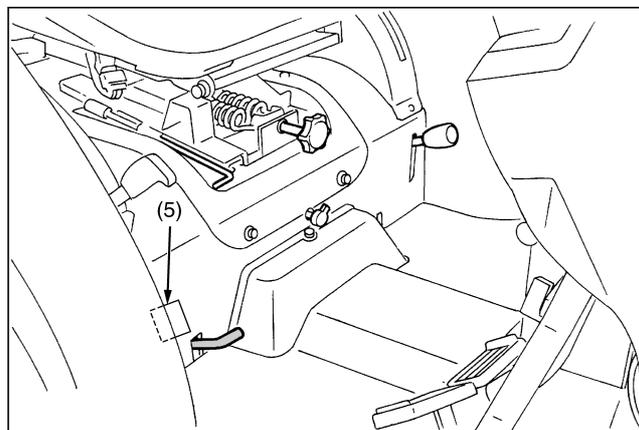
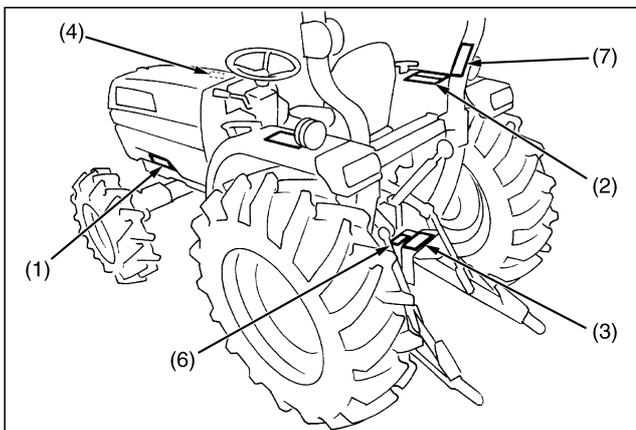
	⚠ WARNING
	<p>TO AVOID PERSONAL INJURY.</p> <ol style="list-style-type: none"> Keep PTO shield in place at all times. Do not operate the PTO at speeds faster than the speed recommended by the implement manufacturer. For trailing PTO-driven implements, set drawbar at towing position. (see operator's manual)

(6) Part No. TA040-4935-1

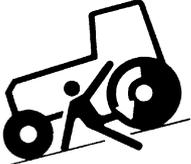
⚠ WARNING
<p>TO AVOID PERSONAL INJURY:</p> <ol style="list-style-type: none"> Attach pulled or towed loads to the drawbar only. Use the 3-point hitch only with equipment designed for 3-point hitch usage.

(7) Part No. 6C140-4746-1

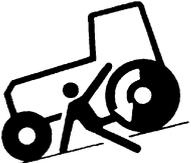
⚠ WARNING
<p>TO AVOID PERSONAL INJURY: Do not modify or repair a ROPS because welding, grinding, drilling or cutting any portion may weaken the structure.</p>



(1) Part No. TA140-4992-1 [GST 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. LOCK SHUTTLE SHIFT LEVER IN NEUTRAL POSITION AND STOP THE ENGINE.

(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.

(1) Part No. TA240-4933-1 [HST Type]

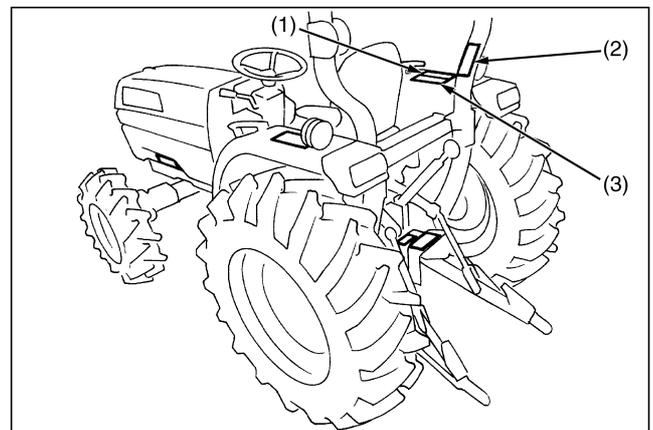
⚠ WARNING	BEFORE DISMOUNTING TRACTOR: 1. ALWAYS SET PARKING BRAKE. Leaving transmission in gear with the engine stopped will not prevent tractor from rolling.
	2. PARK ON LEVEL GROUND WHENEVER POSSIBLE. If parking on a slope, position tractor across the slope.
	3. LOWER ALL IMPLEMENTS TO THE GROUND.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

(2) Part No. 3A111-9554-1
[Foldable ROPS Type]

⚠ WARNING
Never modify or repair a ROPS because welding, grinding, drilling or cutting any portion may weaken the structure.
⚠ CAUTION
TO AVOID INJURY WHEN RAISING OR FOLDING ROPS:
<ul style="list-style-type: none"> • 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.

(3) Part No. TA240-9848-1 [Foldable ROPS Type]

⚠ WARNING
 
TO AVOID INJURY OR DEATH FROM ROLL-OVER: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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



(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.

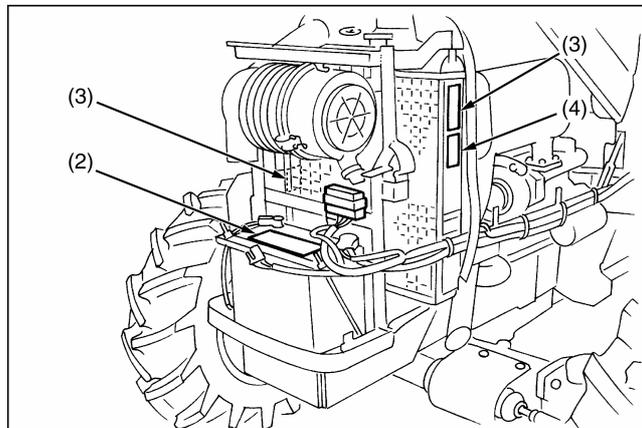
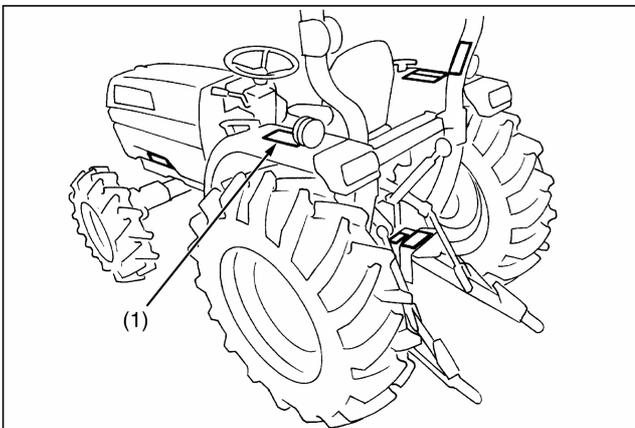
(3) Part No.
32751-4958-1
Stay clear of engine fan and fan belt.



(2) Part No. TD060-3012-1

 RECYCLE	 FLAMMABLES	 SHIELD EYES	 KEEP OUT OF THE REACH OF CHILDREN	 CAUTIONS OF SULFURIC ACID	 READ INSTRUCTION MANUAL CAREFULLY	 EXPLOSIVE	HYDROMETER OK CHARGE REPLACE BATTERY BATTERY DK 80650
NX110-5MF 12V AMP. HR (20HR) 55 RESERVE CAPACITY (MIN) 133 COLD CRANKING AMPS (-18°C) 582		- DUE TO HYDROGEN GAS GENERATED FROM BATTERY, HANDLING WITHOUT CARE CAN CAUSE FIRE AND EXPLOSION. - THIS 12V BATTERY IS ONLY FOR STARTING ENGINE. DO NOT APPLY THIS PRODUCT FOR OTHER USES. - CHARGE THIS BATTERY ONLY AT WELL VENTILATED PLACES, AND AVOID SHORTS OR SPARKS. - REFER TO THE INSTRUCTION MANUAL OF VEHICLE OR BATTERY BEFORE USING BOOSTER CABLE. - SULFURIC ACID MAY CAUSE BLINDNESS OR SEVERE BURN, IN CASE EYES, SKIN, CLOTHES OR ANY ARTICLES ARE STAINED WITH ACID, FLUSH OBJECTS IMMEDIATELY WITH WATER. IF ACID BEING SWALLOWED, DRINK PLENTY OF WATER PROMPTLY. IN CASE OF ACCIDENTAL CONTACT, CONSULT A DOCTOR IMMEDIATELY. - BATTERY FILLED WITH ACID (DO NOT TILT OR SPILL) - FLAMMABLE. DO NOT CHARGE NEAR FIRE OR SPARKS - DO NOT CHARGE RAPIDLY - DO NOT DISASSEMBLE THE BATTERY (SEALED TYPE)					OK CHARGE REPLACE BATTERY BATTERY DK 80650
<h1>NX110-5MF</h1>		<h1>80D26R</h1>					
DANGER EXPLOSIVE GASES Cigarettes, flames or sparks could cause battery to explode. Always shield eyes and face from battery. Do not charge or use booster cables or adjust post connections without proper instruction and training.		POISON CAUSES SEVERE BURNS Contains sulfuric acid. Avoid contact with skin, eyes or clothing. In event of accident flush with water and call a physician immediately. KEEP OUT OF REACH OF CHILDREN					
FITTING DATE: 0 1 2 3 4 5 6 7 8 9 YEAR 1 2 3 4 5 6 7 8 9 10 11 12 MONTH							

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



(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.

(2) Part No. TA040-4902-1

⚠ WARNING



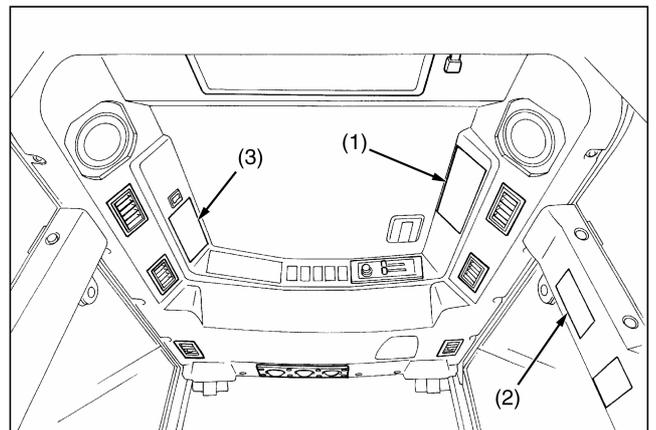
TO AVOID INJURY OR DEATH FROM ROLL-OVER:
Always use seat belt when driving.

(3) Part No. TA240-4933-2

⚠ 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.**



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 or caution label (s) affixed is replaced with new part, make sure new label (s) is (are) attached in the same location (s) as the replaced component.
5. Mount new danger, warning and caution labels by applying on a clean dry surface and pressing any bubbles to outside edge.

SPECIFICATIONS

Model		L3130			
		Manual		GST	HST
		2WD (ROPS)	4WD (ROPS)	4WD (ROPS)	4WD (ROPS)
Engine	Model	D1503-MA-E-GST			D1503-MA-E-HST
	Type	Indirect injection vertical, water-cooled, 4-cycle diesel			
	Number of cylinders	3			
	Total displacement	1.499 L (91.5 cu.in.)			
	Bore and stroke	83 × 92.4 mm (3.3 × 3.6 in.)			
	Net power	23.1 kW (31.0 HP)*			
	PTO power (factory observe)	19.0 kW (25.5 HP)* / 2700 min ⁻¹ (rpm)			17.9 kW (24.0 HP)* / 2700 min ⁻¹ (rpm)
	Maximum torque	102.9 N·m (10.5 kgf·m, 75.9 ft-lbs)			
	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)]			
Capacities	Fuel tank	40 L (10.6 U.S.gals., 8.8 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	42 L (11.1 U.S.gals., 9.2 Imp.gals.)			
Dimensions	Overall length (without 3P)	2915 mm (114.8 in.)			
	Overall width (min. tread)	1520 mm (59.8 in.)			
	Overall height (with ROPS foldable / rigid)	2305 mm (90.7 in.) / 2140 mm (84.3 in.)			
	Wheel base	1810 mm (71.3 in.)	1805 mm (71.1 in.)		
	Min. ground clearance	360 mm (14.2 in.)			
	Tread	Front	1310 mm (51.6 in.) 1410 mm (55.5 in.) 1510 mm (59.4 in.) 1610 mm (63.4 in.)	1155 mm (45.5 in.)	
Rear		1200 mm (47.2 in.), 1300 mm (51.2 in.), 1385 mm (54.5 in.), 1480 mm (58.3 in.)			
Weight (with ROPS)		1415 kg (3120 lbs)	1460 kg (3220 lbs)	1480 kg (3265 lbs)	1500 kg (3305 lbs)
Travelling system	Standard tire size	Front	6-16	7.2-16	
		Rear	12.4-24		
	Clutch	Dry type single stage			
	Steering	Hydrostatic power steering			
	Transmission	F8, R8 fully synchronized main and shuttle transmission		F12, R8 Glide shift transmission	Hydrostatic transmission (3 speeds)
	Braking system	Wet disk type			
Min. turning radius (with brake)	2.6 m (8.5 feet)	2.7 m (8.9 feet)			
Hydraulic system	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 I			
	Max. lift force	At lift points	1700 kg (3750 lbs)		
		24 in. behind lift points	1200 kg (2650 lbs)		
System pressure	17.1 to 18.1 MPa (175 to 185 kgf/cm ² , 2491 to 2633 psi)				
PTO	Rear PTO	SAE 1-3/8, 6 splines			
	PTO / Engine speed	540 min ⁻¹ (rpm) / 2550 min ⁻¹ (rpm)			540 min ⁻¹ (rpm) / 2640 min ⁻¹ (rpm)
	Mid-PTO (if equipped)	USA No. 5 (KUBOTA 10-tooth) involute spline			
	PTO / Engine speed	2000 min ⁻¹ (rpm) / 2580 min ⁻¹ (rpm)			2000 min ⁻¹ (rpm) / 2670 min ⁻¹ (rpm)

Note : * Manufacture's estimate

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

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Model		L3430					
		Manual		GST		HST	
		4WD (ROPS)		4WD (ROPS)		4WD (ROPS)	
Engine	Model	D1703-MA-E-GST			D1703-MA-E-HST		
	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	25.1 kW (33.6 HP)*					
	PTO power (factory observe)	21.3 kW (28.5 HP)* / 2700 min ⁻¹ (rpm)			20.1 kW (27.0 HP)* / 2700 min ⁻¹ (rpm)		
	Maximum torque	108.3 N·m (11.05 kgf·m, 79.9 ft-lbs)					
	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)]					
Capacities	Fuel tank	40 L (10.6 U.S.gals., 8.8 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	42 L (11.1 U.S.gals., 9.2 Imp.gals.)					
Dimensions	Overall length (without 3P)	2915 mm (114.8 in.)					
	Overall width (min. tread)	1520 mm (59.8 in.)					
	Overall height (with CABIN or ROPS foldable / rigid)	2305 mm (90.7 in.) / 2140 mm (84.3 in.)			2195 mm (86.4 in.)		
	Wheel base	1805 mm (71.1 in.)					
	Min. ground clearance	360 mm (14.2 in.)					
	Tread	Front	1155 mm (45.5 in.)				
Rear		1200 mm (47.2 in.), 1300 mm (51.2 in.), 1385 mm (54.5 in.), 1480 mm (58.3 in.)					
Weight (with ROPS or CABIN)		1460 kg (3220 lbs)	1480 kg (3265 lbs)	1500 kg (3305 lbs)	1650 kg (3638 lbs)		
Travelling system	Standard tire size	Front	7.2-16				
		Rear	12.4-24				
	Clutch	Dry type single stage					
	Steering	Hydrostatic power steering					
	Transmission	F8, R8 fully synchronized main and shuttle transmission	F12, R8 Glide shift transmission	Hydrostatic transmission (3 speeds)			
	Braking system	Wet disk type					
	Min. turning radius (with brake)	2.7 m (8.9 feet)					
Hydraulic system	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 I					
	Max. lift force	At lift points	1700 kg (3750 lbs)				
		24 in. behind lift points	1200 kg (2650 lbs)				
System pressure	17.1 to 18.1 MPa (175 to 185 kgf/cm ² , 2491 to 2633 psi)						
PTO	Rear PTO	SAE 1-3/8, 6 splines					
	PTO / Engine speed	540 min ⁻¹ (rpm) / 2550 min ⁻¹ (rpm)		540 min ⁻¹ (rpm) / 2640 min ⁻¹ (rpm)			
	Mid-PTO (if equipped)	USA No. 5 (KUBOTA 10-tooth) involute spline					
	PTO / Engine speed	2000 min ⁻¹ (rpm) / 2580 min ⁻¹ (rpm)		2000 min ⁻¹ (rpm) / 2670 min ⁻¹ (rpm)			

Note : * Manufacturer's estimate

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

W10357910

Model		L3830			
		Manual		GST	HST
		2WD (ROPS)	4WD (ROPS)	4WD (ROPS)	4WD (ROPS)
Engine	Model	D1803-MA-E-GST			D1803-MA-E-HST
	Type	Indirect injection vertical, water-cooled, 4-cycle diesel			
	Number of cylinders	3			
	Total displacement	1.826 L (111.4 cu.in.)			
	Bore and stroke	87 × 102.4 mm (3.4 × 4.0 in.)			
	Net power	27.9 kW (37.4 HP)*			
	PTO power (factory observe)	23.9.0 kW (32.0 HP)* / 2700 min ⁻¹ (rpm)			22.8 kW (30.5 HP)* / 2700 min ⁻¹ (rpm)
	Maximum torque	120.7 N·m (12.3 kgf·m, 89.0 ft·lbs)			
	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	40 L (10.6 U.S.gals., 8.8 Imp.gals.)			
	Engine crankcase (with filter)	5.7 L (6.0 U.S.qts., 5.0 Imp.qts.)			
	Engine coolant	7.5 L (7.9 U.S.qts., 6.6 Imp.qts.)			
	Transmission case	43 L (11.4 U.S.gals., 9.5 Imp.gals.)			
Dimensions	Overall length (without 3P)	2985 mm (117.5 in.)			
	Overall width (min. tread)	1690 mm (66.5 in.)			
	Overall height (with ROPS foldable / rigid)	2315 mm (91.1 in.) / 2155 mm (84.8 in.)			
	Wheel base	1845 mm (72.6 in.)	1840 mm (72.4 in.)		
	Min. ground clearance	375 mm (14.8 in.)			
	Tread	Front	1310 mm (51.6 in.) 1410 mm (55.5 in.) 1510 mm (59.4 in.) 1610 mm (63.4 in.)	1155 mm (45.5 in.)	
Rear		1285 mm (50.6 in.), 1435 mm (56.5 in.), 1530 mm (60.2 in.)			
Weight (with ROPS)		1430 kg (3155 lbs)	1480 kg (3265 lbs)	1495 kg (3295 lbs)	1515 kg (3340 lbs)
Travelling system	Standard tire size	Front	6-16	8.3-16	
		Rear	14.9-24		
	Clutch	Dry type single stage			
	Steering	Hydrostatic power steering			
	Transmission	F8, R8 fully synchronized main and shuttle transmission		F12, R8 Glide shift transmission	Hydrostatic transmission (3 speeds)
	Braking system	Wet disk type			
Min. turning radius (with brake)	2.6 m (8.5 feet)	2.7 m (8.9 feet)			
Hydraulic system	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 I			
	Max. lift force	At lift points	1750 kg (3860 lbs)		
		24 in. behind lift points	1250 kg (2760 lbs)		
System pressure	17.1 to 18.1 MPa (175 to 185 kgf/cm ² , 2491 to 2633 psi)				
PTO	Rear PTO	SAE 1-3/8, 6 splines			
	PTO / Engine speed	540 min ⁻¹ (rpm) / 2550 min ⁻¹ (rpm)			540 min ⁻¹ (rpm) / 2640 min ⁻¹ (rpm)
	Mid-PTO (if equipped)	USA No. 5 (KUBOTA 10-tooth) involute spline			
	PTO / Engine speed	2000 min ⁻¹ (rpm) / 2580 min ⁻¹ (rpm)			2000 min ⁻¹ (rpm) / 2670 min ⁻¹ (rpm)

Note : * Manufacturer's estimate

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W10375160

Model		L4330			
		Manual	GST	HST	
		4WD (ROPS)	4WD (ROPS)	4WD (ROPS)	4WD (CABIN)
Engine	Model	V2203-MA-E-GST		V2203-MA-E-HST	
	Type	Indirect injection vertical, water-cooled, 4-cycle diesel			
	Number of cylinders	4			
	Total displacement	2.197 L (134.1 cu.in.)			
	Bore and stroke	87 × 92.4 mm (3.4 × 3.6 in.)			
	Net power	30.6 kW (41.0 HP)*			
	PTO power (factory observe)	26.9 kW (36.0 HP)* / 2600 min ⁻¹ (rpm)		25.7 kW (34.5 HP)* / 2600 min ⁻¹ (rpm)	
	Maximum torque	146.2 N·m (14.9 kgf·m, 107.8 ft-lbs)			
	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	40 L (10.6 U.S.gals., 8.8 Imp.gals.)			
	Engine crankcase (with filter)	8.2 L (8.7 U.S.qts., 7.2 Imp.qts.)			
	Engine coolant	7.5 L (7.9 U.S.qts., 6.6 Imp.qts.)			
	Transmission case	43 L (11.4 U.S.gals., 9.5 Imp.gals.)			
Dimensions	Overall length (without 3P)	3080 mm (121.3 in.)			
	Overall width (min. tread)	1690 mm (66.5 in.)			
	Overall height (with CABIN or ROPS foldable / rigid)	2315 mm (91.1 in.) / 2155 mm (84.8 in.)			2210 mm (87.0 in.)
	Wheel base	1895 mm (74.6 in.)			
	Min. ground clearance	375 mm (14.8 in.)			
	Tread	Front	1300 mm (51.2 in.)		
Rear		1285 mm (50.6 in.), 1435 mm (56.5 in.), 1530 mm (60.2 in.)			
Weight (with ROPS or CABIN)		1560 kg (3440 lbs)	1575 kg (3470 lbs)	1600 kg (3525 lbs)	1750 kg (3858 lbs)
Travelling system	Standard tire size	Front	8.3-16		
		Rear	14.9-24		
	Clutch	Dry type single stage			
	Steering	Hydrostatic power steering			
	Transmission	F8, R8 fully synchronized main and shuttle transmission	F12, R8 Glide shift transmission	Hydrostatic transmission (3 speeds)	
	Braking system	Wet disk type			
	Min. turning radius (with brake)	2.7 m (8.9 feet)			
Hydraulic system	Hydraulic control system	Position control			
	Pump capacity	35.6 L (9.4 U.S.gals., 7.8 Imp.gals.) / min.			
	Three point hitch	SAE Category I			
	Max. lift force	At lift points	1750 kg (3860 lbs)		
		24 in. behind lift points	1250 kg (2760 lbs)		
System pressure	18.1 to 19.1 MPa (185 to 195 kgf/cm ² , 2633 to 2775 psi)				
PTO	Rear PTO	SAE 1-3/8, 6 splines			
	PTO / Engine speed	540 min ⁻¹ (rpm) / 2550 min ⁻¹ (rpm)		540 min ⁻¹ (rpm) / 2440 min ⁻¹ (rpm)	
	Mid-PTO (if equipped)	USA No. 5 (KUBOTA 10-tooth) involute spline			
	PTO / Engine speed	2000 min ⁻¹ (rpm) / 2580 min ⁻¹ (rpm)		2000 min ⁻¹ (rpm) / 2470 min ⁻¹ (rpm)	

Note : * Manufacturer's estimate

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W10388600

Model		L4630			
		Manual	GST		HST
		4WD (ROPS)	4WD (ROPS)	4WD (CABIN)	4WD (ROPS)
Engine	Model	V2203-MB-E-GST			V2203-MB-E-HST
	Type	Indirect injection vertical, water-cooled, 4-cycle diesel			
	Number of cylinders	4			
	Total displacement	2.197 L (134.1 cu.in.)			
	Bore and stroke	87 × 92.4 mm (3.4 × 3.6 in.)			
	Net power	33.3 kW (44.7 HP)*			
	PTO power (factory observe)	29.5 kW (39.5 HP)* / 2700 min ⁻¹ (rpm)			28.3 kW (38.0 HP)* / 2700 min ⁻¹ (rpm)
	Maximum torque	146.2 N·m (14.9 kgf·m, 107.8 ft-lbs)			
	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	40 L (10.6 U.S.gals., 8.8 Imp.gals.)			
	Engine crankcase (with filter)	8.2 L (8.7 U.S.qts., 7.2 Imp.qts.)			
	Engine coolant	7.5 L (7.9 U.S.qts., 6.6 Imp.qts.)			
	Transmission case	43 L (11.4 U.S.gals., 9.5 Imp.gals.)			
Dimensions	Overall length (without 3P)	3080 mm (121.3 in.)			
	Overall width (min. tread)	1690 mm (66.5 in.)			
	Overall height (with CABIN or ROPS foldable / rigid)	2315 mm (91.1 in.) / 2155 mm (84.8 in.)		2210 mm (87.0 in.)	2315 mm (91.1 in.) / 2155 mm (84.8 in.)
	Wheel base	1895 mm (74.6 in.)			
	Min. ground clearance	375 mm (14.8 in.)			
	Tread	Front	1300 mm (51.2 in.)		
Rear		1285 mm (50.6 in.), 1435 mm (56.5 in.), 1530 mm (60.2 in.)			
Weight (with ROPS or CABIN)		1560 kg (3440 lbs)	1575 kg (3470 lbs)	1730 kg (3815 lbs)	1600 kg (3525 lbs)
Travelling system	Standard tire size	Front	8.3-16		
		Rear	14.9-24		
	Clutch	Dry type single stage			
	Steering	Hydrostatic power steering			
	Transmission	F8, R8 fully synchronized main and shuttle transmission	F12, R8 Glide shift transmission		Hydrostatic transmission (3 speeds)
	Braking system	Wet disk type			
Min. turning radius (with brake)	2.7 m (8.9 feet)				
Hydraulic system	Hydraulic control system	Position control			
	Pump capacity	37.0 L (9.8 U.S.gals., 8.1 Imp.gals.) / min.			
	Three point hitch	SAE Category I			
	Max. lift force	At lift points	1750 kg (3860 lbs)		
		24 in. behind lift points	1250 kg (2760 lbs)		
System pressure	18.1 to 19.1 MPa (185 to 195 kgf/cm ² , 2633 to 2775 psi)				
PTO	Rear PTO	SAE 1-3/8, 6 splines			
	PTO / Engine speed	540 min ⁻¹ (rpm) / 2550 min ⁻¹ (rpm)			540 min ⁻¹ (rpm) / 2640 min ⁻¹ (rpm)
	Mid-PTO (if equipped)	USA No. 5 (KUBOTA 10-tooth) involute spline			
	PTO / Engine speed	2000 min ⁻¹ (rpm) / 2580 min ⁻¹ (rpm)			2000 min ⁻¹ (rpm) / 2670 min ⁻¹ (rpm)

Note : * Manufacturer's estimate

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W10400750

Model		L5030		
		GST		HST
		4WD (ROPS)	4WD (ROPS)	4WD (CABIN)
Engine	Model	V2403-MA-E-GST		V2403-MA-E-HST
	Type	Indirect injection vertical, water-cooled, 4-cycle diesel		
	Number of cylinders	4		
	Total displacement	2.434 L (148.5 cu.in.)		
	Bore and stroke	87 × 102.4 mm (3.4 × 4.0 in.)		
	Net power	37.3 kW (50.0 HP)*		
	PTO power (factory observe)	32.8 kW (44,0 HP)* / 2700 min ⁻¹ (rpm)	31.7 kW (42.5 HP)* / 2700 min ⁻¹ (rpm)	
	Maximum torque	162.4 N·m (16.6 kgf·m, 119.8 ft-lbs)		
	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	43 L (11.4 U.S.gals., 9.5 Imp.gals.)		
	Engine crankcase (with filter)	8.2 L (8.7 U.S.qts., 7.2 Imp.qts.)		
	Engine coolant	8.0 L (8.5 U.S.qts., 7.0 Imp.qts.)		
	Transmission case	45 L (11.9 U.S.gals., 9.9 Imp.gals.)		
Dimensions	Overall length (without 3P)	3205 mm (126.2 in.)		
	Overall width (min. tread)	1710 mm (67.3 in.)		
	Overall height (with CABIN or ROPS foldable / rigid)	2355 mm (92.7 in.) / 2190 mm (86.2 in.)		2270 mm (89.4 in.)
	Wheel base	1915 mm (75.4 in.)		
	Min. ground clearance	405 mm (15.9 in.)		
	Tread	Front	1340 mm (52.8 in.)	
	Rear	1325 mm (52.2 in.), 1430 mm (56.3 in.)		
Weight (with ROPS or CABIN)		1680 kg (3705 lbs)	1700 kg (3750 lbs)	1855 kg (4090 lbs)
Travelling system	Standard tire size	Front	9.5-16	
		Rear	14.9-26	
	Clutch	Dry type single stage		
	Steering	Hydrostatic power steering		
	Transmission	F12, R8 Glide shift transmission	Hydrostatic transmission (3 speeds)	
	Braking system	Wet disk type		
Min. turning radius (with brake)	2.8 m (9.2 feet)			
Hydraulic system	Hydraulic control system	Position control		
	Pump capacity	37.0 L (9.8 U.S.gals., 8.1 Imp.gals.) / min.		
	Three point hitch	SAE Category I		
	Max. lift force	At lift points	1750 kg (3860 lbs)	
		24 in. behind lift points	1350 kg (2980 lbs)	
System pressure	18.1 to 19.1 MPa (185 to 195 kgf/cm ² , 2633 to 2775 psi)			
PTO	Rear PTO	SAE 1-3/8, 6 splines		
	PTO / Engine speed	540 min ⁻¹ (rpm) / 2550 min ⁻¹ (rpm)	540 min ⁻¹ (rpm) / 2660 min ⁻¹ (rpm)	
	Mid-PTO (if equipped)	USA No. 5 (KUBOTA 10-tooth) involute spline		
	PTO / Engine speed	2000 min ⁻¹ (rpm) / 2580 min ⁻¹ (rpm)	2000 min ⁻¹ (rpm) / 2690 min ⁻¹ (rpm)	

Note : * Manufacturer's estimate

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W10417330

TRAVELLING SPEEDS

[Manual Transmission Type]

Model			L3130 L3430	L3830	L4330	L4630	L5030
Tire size (Rear)			12.4-24	14.9-24	14.9-24	14.9-24	14.9-26
Shuttle shift lever	Range gear shift lever	Main gear shift lever	km/h (mph)	km/h (mph)	km/h (mph)	km/h (mph)	km/h (mph)
Forward (At rated engine rpm)	Low	1	1.6 (1.0)	1.5 (0.9)	1.6 (1.0)	1.5 (0.9)	1.5 (0.9)
		2	2.3 (1.4)	2.1 (1.3)	2.2 (1.4)	2.1 (1.3)	2.2 (1.4)
		3	3.7 (2.3)	3.5 (2.2)	3.6 (2.2)	3.5 (2.2)	3.5 (2.2)
		4	5.4 (3.4)	5.1 (3.2)	5.3 (3.3)	5.1 (3.2)	5.2 (3.2)
	High	1	7.8 (4.8)	7.6 (4.7)	7.7 (4.8)	7.6 (4.7)	7.8 (4.8)
		2	11.1 (6.9)	10.7 (6.6)	10.9 (6.8)	10.7 (6.6)	11.0 (6.8)
		3	18.0 (11.2)	17.4 (10.8)	17.6 (10.8)	17.4 (10.8)	17.9 (10.9)
		4	26.6 (16.5)	25.7 (16.0)	26.0 (16.2)	25.7 (16.0)	26.4 (16.4)
Reverse (At rated engine rpm)	Low	1	1.5 (0.9)	1.4 (0.9)	1.5 (0.9)	1.4 (0.9)	1.5 (0.9)
		2	2.2 (1.4)	2.0 (1.2)	2.1 (1.3)	2.0 (1.2)	2.1 (1.3)
		3	3.5 (2.2)	3.3 (2.1)	3.4 (2.1)	3.3 (2.1)	3.4 (2.1)
		4	5.2 (3.2)	4.9 (3.0)	5.1 (3.2)	4.9 (3.0)	5.0 (3.1)
	High	1	7.5 (4.7)	7.2 (4.5)	7.3 (4.5)	7.2 (4.5)	7.4 (4.6)
		2	10.6 (6.6)	10.2 (6.3)	10.4 (6.5)	10.2 (6.3)	10.4 (6.5)
		3	17.2 (10.7)	16.6 (10.3)	16.8 (10.4)	16.6 (10.3)	17.1 (10.6)
		4	25.4 (15.8)	24.5 (15.2)	24.8 (15.4)	24.5 (15.2)	25.2 (15.7)

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

W1035065

[GST Type]

Model		L3130 L3430	L3830	L4330	L4630	L5030
Tire size (Rear)		12.4-24	14.9-24	14.9-24	14.9-24	14.9-26
Shuttle shift lever	Main gear shift lever	km/h (mph)	km/h (mph)	km/h (mph)	km/h (mph)	km/h (mph)
Forward (At rated engine rpm)	1	1.6 (1.0)	1.5 (0.9)	1.6 (1.0)	1.5 (0.9)	1.5 (0.9)
	2	2.3 (1.4)	2.1 (1.3)	2.2 (1.4)	2.1 (1.3)	2.2 (1.4)
	3	3.1 (1.9)	2.9 (1.8)	3.0 (1.9)	2.9 (1.8)	2.9 (1.8)
	4	3.7 (2.3)	3.5 (2.2)	3.6 (2.2)	3.5 (2.2)	3.5 (2.2)
	5	4.5 (2.8)	4.2 (2.6)	4.4 (2.7)	4.2 (2.6)	4.3 (2.7)
	6	5.4 (3.4)	5.1 (3.2)	5.3 (3.3)	5.1 (3.2)	5.2 (3.2)
	7	6.5 (4.0)	6.3 (3.9)	6.4 (4.0)	6.3 (3.9)	6.5 (4.0)
	8	7.8 (4.8)	7.6 (4.7)	7.7 (4.8)	7.6 (4.7)	7.8 (4.8)
	9	9.2 (5.7)	8.9 (5.5)	9.0 (5.6)	8.9 (5.5)	9.1 (5.7)
	10	11.1 (6.9)	10.7 (6.6)	10.9 (6.8)	10.7 (6.6)	11.0 (6.8)
	11	18.0 (11.2)	17.4 (10.8)	17.6 (10.8)	17.4 (10.8)	17.9 (10.9)
	12	26.6 (16.5)	25.7 (16.0)	26.0 (16.2)	25.7 (16.0)	26.4 (16.4)
Reverse (At rated engine rpm)	1	1.5 (0.9)	1.4 (0.9)	1.5 (0.9)	1.4 (0.9)	1.5 (0.9)
	2	2.2 (1.4)	2.0 (1.2)	2.1 (1.3)	2.0 (1.2)	2.1 (1.3)
	3	3.5 (2.2)	3.3 (2.1)	3.4 (2.1)	3.3 (2.1)	3.4 (2.1)
	4	5.2 (3.2)	4.9 (3.0)	5.1 (3.2)	4.9 (3.0)	5.0 (3.1)
	5	7.5 (4.7)	7.2 (4.5)	7.3 (4.5)	7.2 (4.5)	7.4 (4.6)
	6	10.6 (6.6)	10.2 (6.3)	10.4 (6.5)	10.2 (6.3)	10.4 (6.5)
	7	17.2 (10.7)	16.6 (10.3)	16.8 (10.4)	16.6 (10.3)	17.1 (10.6)
	8	25.4 (15.8)	24.5 (15.2)	24.8 (15.4)	24.5 (15.2)	25.2 (15.7)

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W1032246

[With Creep Speed Model]

Model		L4630 CABIN	
Creep gear shift lever		High	Low
Tire size (Rear)		14.9-24	
Shuttle shift lever	Main gear shift lever	km/h (mph)	km/h (mph)
Forward (At rated engine rpm)	1	1.5 (0.9)	0.17 (0.11)
	2	2.1 (1.3)	0.24 (0.15)
	3	2.9 (1.8)	0.32 (0.20)
	4	3.5 (2.2)	0.39 (0.24)
	5	4.2 (2.6)	0.47 (0.29)
	6	5.1 (3.2)	0.57 (0.35)
	7	6.3 (3.9)	0.71 (0.44)
	8	7.6 (4.8)	0.85 (0.53)
	9	8.9 (5.5)	1.00 (0.62)
	10	10.7 (6.6)	1.20 (0.75)
	11	17.4 (10.8)	1.95 (1.21)
	12	25.7 (16.0)	2.88 (1.79)
Reverse (At rated engine rpm)	1	1.4 (0.9)	0.16 (0.10)
	2	2.0 (1.2)	0.23 (0.14)
	3	3.3 (2.1)	0.37 (0.23)
	4	4.9 (3.0)	0.55 (0.34)
	5	7.2 (4.5)	0.81 (0.50)
	6	10.2 (6.2)	1.15 (0.71)
	7	16.6 (10.3)	1.86 (1.16)
	8	24.5 (15.2)	2.75 (1.71)

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W1033852

[HST Type]

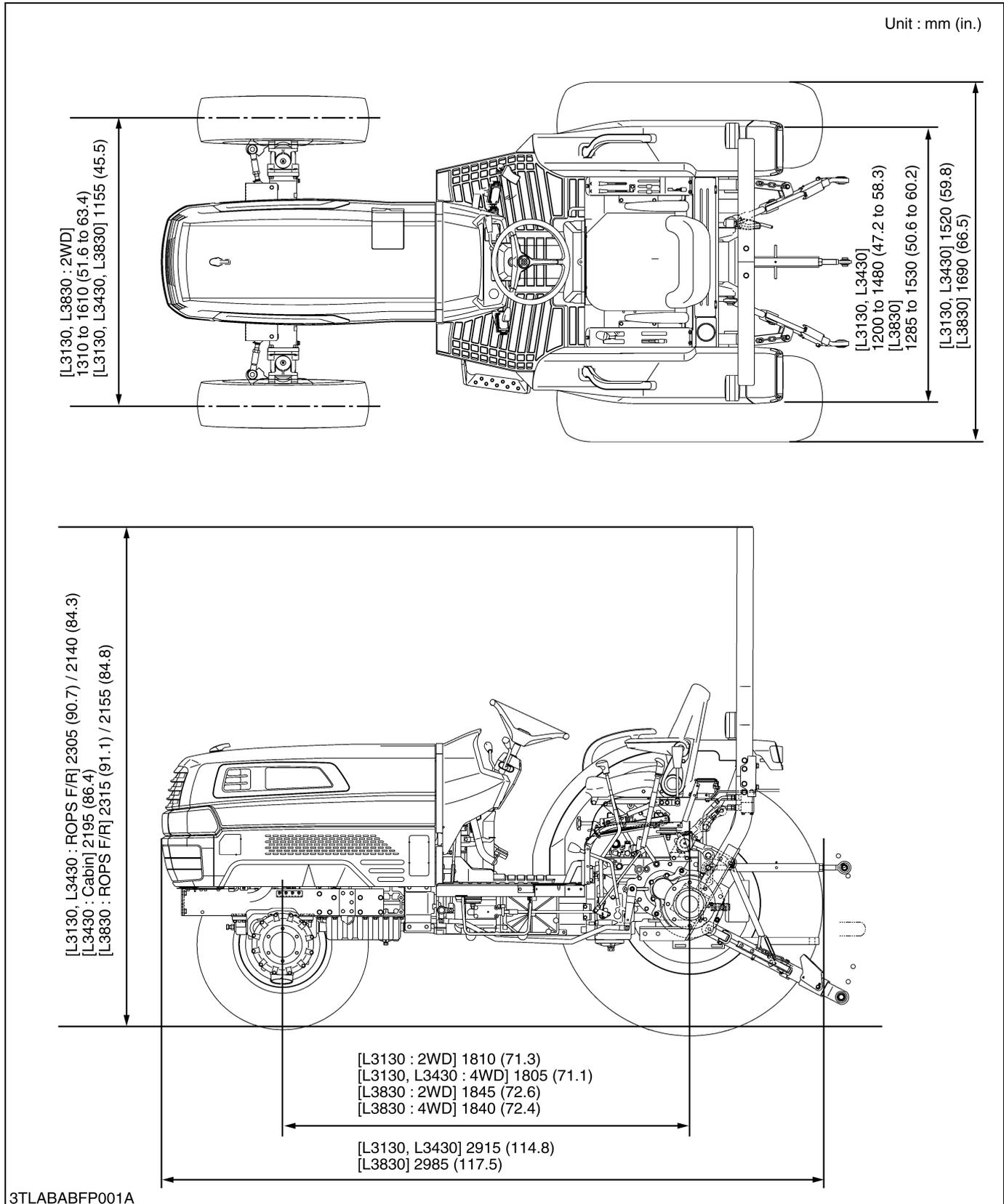
Model		L3130 L3430	L3830	L4330	L4630	L5030
Tire size (Rear)		12.4-24	14.9-24	14.9-24	14.9-24	14.9-26
Shuttle shift lever	Main gear shift lever	km/h (mph)				
Forward (At rated engine rpm)	L	0 to 6.3 (0 to 3.9)	0 to 5.9 (0 to 3.7)	0 to 6.2 (0 to 3.9)	0 to 5.9 (0 to 3.7)	0 to 6.1 (0 to 3.8)
	M	0 to 12.1 (0 to 7.5)	0 to 11.4 (0 to 7.1)	0 to 11.9 (0 to 7.4)	0 to 11.4 (0 to 7.1)	0 to 11.8 (0 to 7.3)
	H	0 to 27.0 (0 to 16.8)	0 to 25.3 (0 to 15.7)	0 to 26.4 (0 to 16.4)	0 to 25.3 (0 to 15.7)	0 to 26.1 (0 to 16.2)
Reverse (At rated engine rpm)	L	0 to 5.7 (0 to 3.5)	0 to 5.3 (0 to 3.3)	0 to 5.5 (0 to 3.4)	0 to 5.3 (0 to 3.3)	0 to 5.5 (0 to 3.4)
	M	0 to 10.9 (0 to 6.8)	0 to 10.3 (0 to 6.4)	0 to 10.7 (0 to 6.6)	0 to 10.3 (0 to 6.4)	0 to 10.6 (0 to 6.6)
	H	0 to 24.3 (0 to 15.1)	0 to 22.8 (0 to 14.2)	0 to 23.8 (0 to 14.8)	0 to 22.8 (0 to 14.2)	0 to 23.5 (0 to 14.6)

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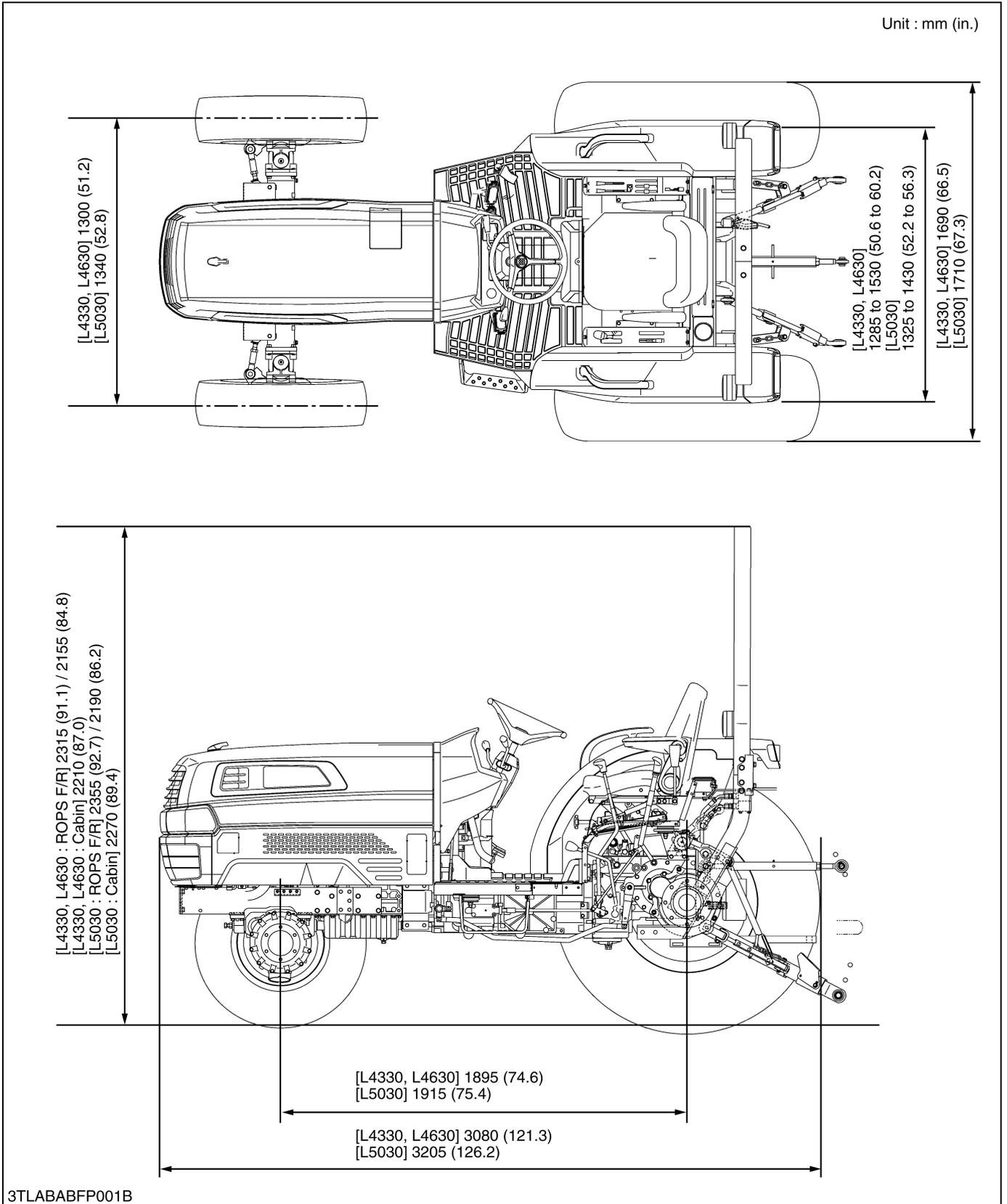
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DIMENSIONS

[L3130, L3430, L3830]



[L4330, L4630, L5030]



G GENERAL

GENERAL

CONTENTS

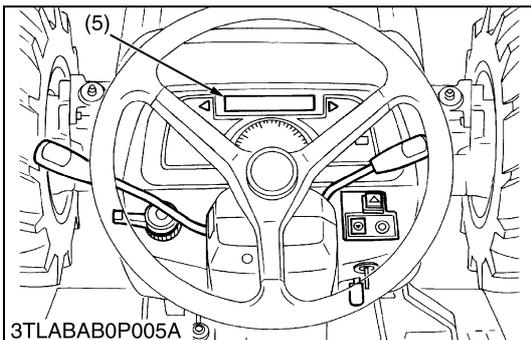
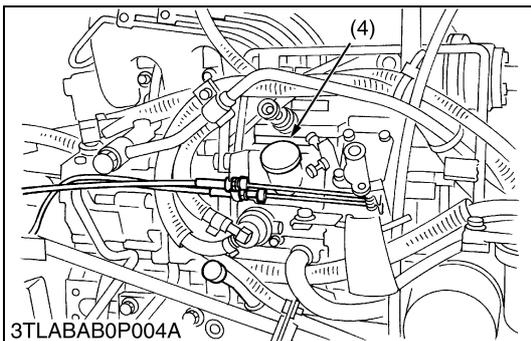
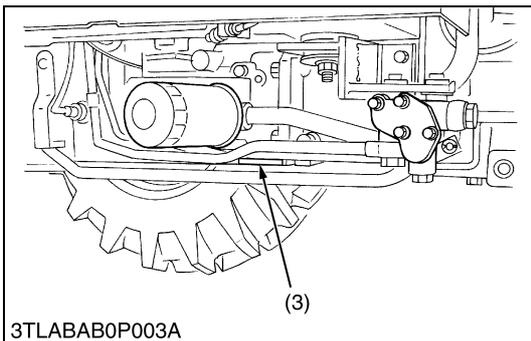
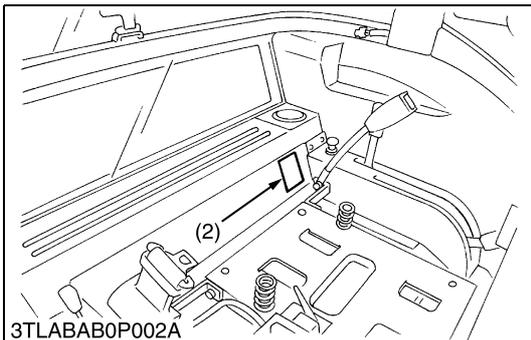
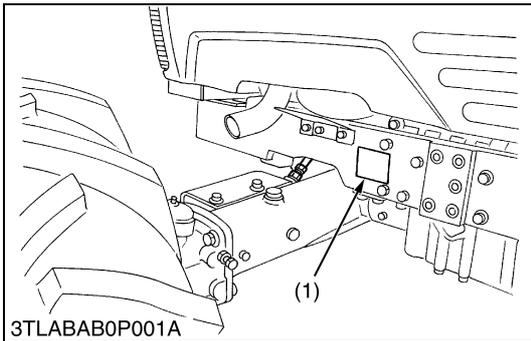
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1. TRACTOR IDENTIFICATION

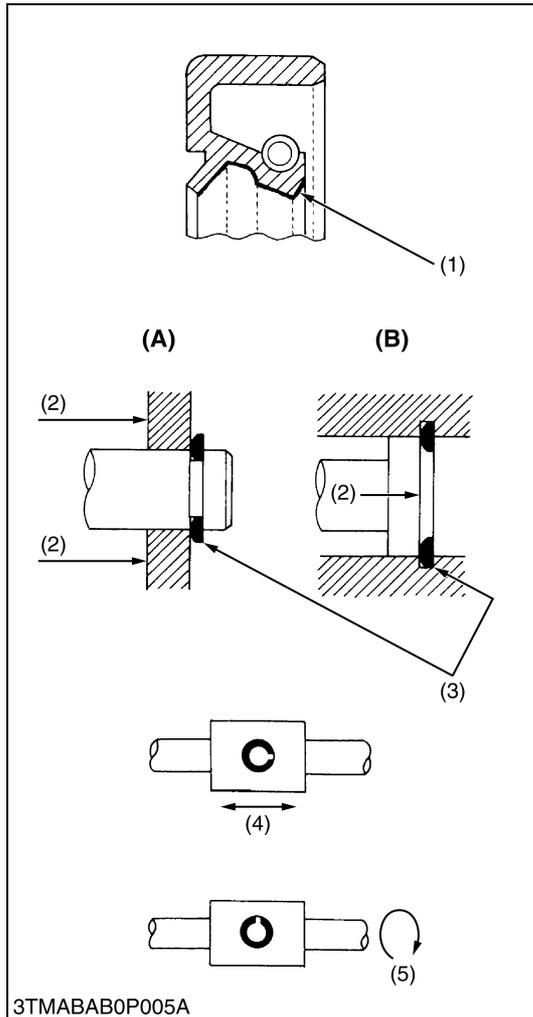
When contacting your local KUBOTA distributor, always specify engine serial number, tractor serial number and hour meter reading.

- (1) Tractor Identification Plate
- (2) CABIN Identification Plate (CABIN Serial Number)
- (3) Tractor Serial Number
- (4) Engine Serial Number
- (5) Hour Meter (IntelliPanel Display)

W10106000



2. GENERAL PRECAUTIONS



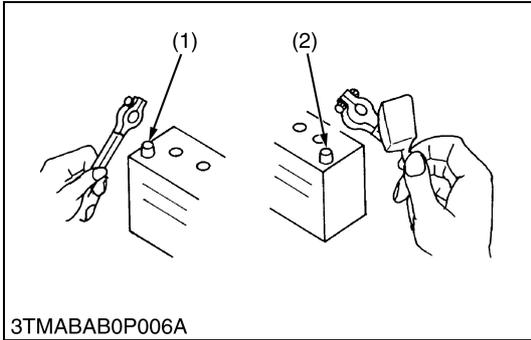
- During disassembly, carefully arrange removed parts in a clean area to prevent confusion later. Screws, bolts and nuts should be installed in their original position to prevent reassembly errors.
- When special tools are required, use KUBOTA genuine special tools. Special tools which are not frequently used should be made according to the drawings provided.
- Before disassembling or servicing electrical wires, always disconnect the ground cable from the battery first.
- Remove oil and dirt from parts before measuring.
- Use only KUBOTA genuine parts for parts replacement to maintain machine performance and to assure safety.
- Gaskets and O-rings must be replaced during reassembly. Apply grease to new O-rings or oil seals before assembling. See the figure left side.
- When reassembling external snap rings or internal snap rings, they must be positioned so that sharp edge faces against the direction from which a force is applied. See the figure left side.
- When inserting spring pins, their splits must face the direction from which a force is applied. See the figure left side.
- To prevent damage to the hydraulic system, use only specified fluid or equivalent.

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

- (A) External Snap Ring**
(B) Internal Snap Ring

W10109040

3. HANDLING PRECAUTIONS FOR ELECTRICAL PARTS AND WIRING



3TMABAB0P006A

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

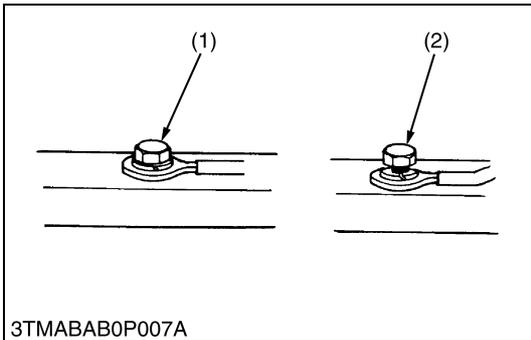
■ IMPORTANT

- 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 attempt 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

W10111140

[1] WIRING

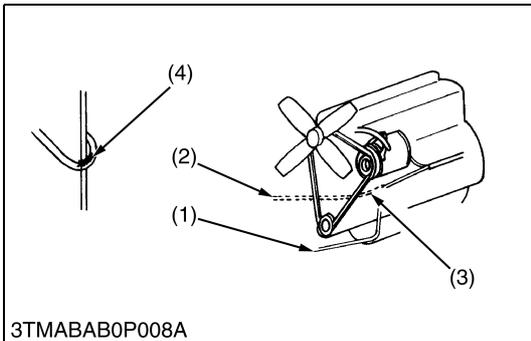


3TMABAB0P007A

- Securely tighten wiring terminals.

- (1) Correct (Securely Tighten) (2) Incorrect (Loosening Leads to Faulty Contact)

W10112160

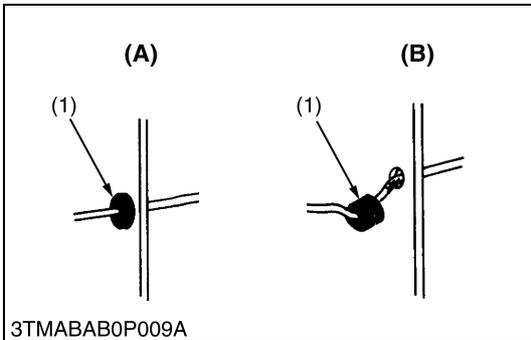


3TMABAB0P008A

- Do not let wiring contact dangerous part.

- (1) Wiring (Correct) (2) Wiring (Incorrect) (3) Dangerous Part (4) Dangerous Part

W10113130

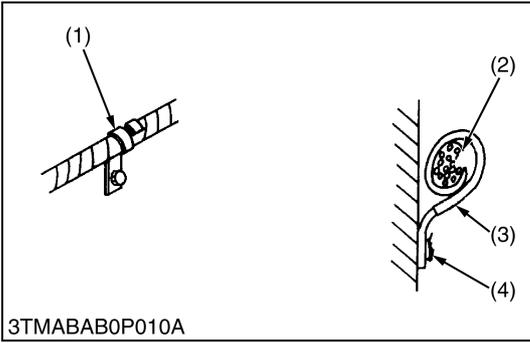


3TMABAB0P009A

- Securely insert grommet.

- (1) Grommet (A) Correct (B) Incorrect

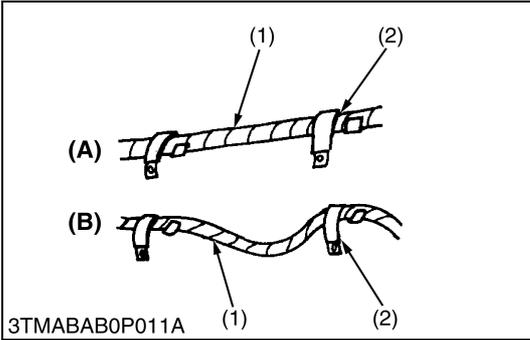
W10113880



- Securely clamp, being careful not to damage wiring.

- (1) Clamp
 - Wind Clamp Spirally
- (2) Wire Harness
- (3) Clamp
- (4) Welding Dent

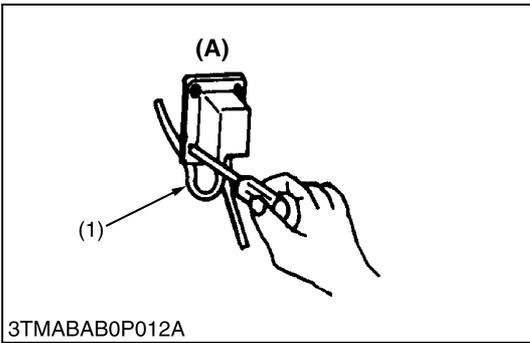
W10114580



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

- (1) Wiring
- (2) Clamp
- (A) Correct
- (B) Incorrect

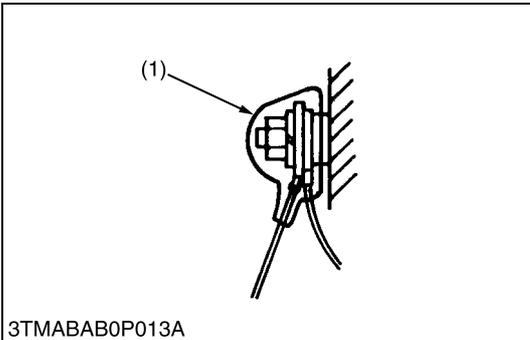
W10115870



- In installing a part, take care not to get wiring caught by it.

- (1) Wiring
- (A) Incorrect

W10116700

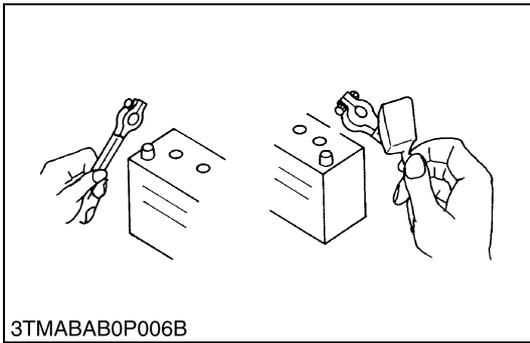


- After installing wiring, check protection of terminals and clamped condition of wiring, only connect battery.

- (1) Cover
 - Securely Install Cover

W10117350

[2] BATTERY



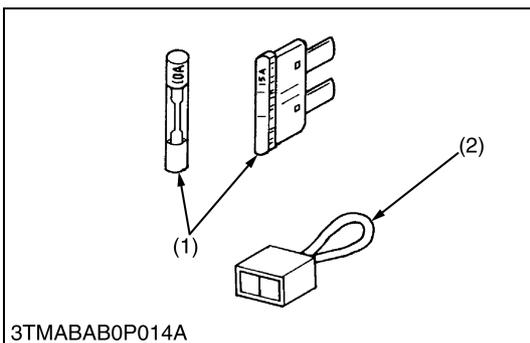
- Take care not to confuse positive and negative terminal posts.
- When removing battery cables, disconnect negative cable first. When installing battery cables, check for polarity and connect positive cable first.
- Do not install any battery with capacity other than is specified (Ah).
- After connecting 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.

CAUTION

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

W10118160

[3] FUSE



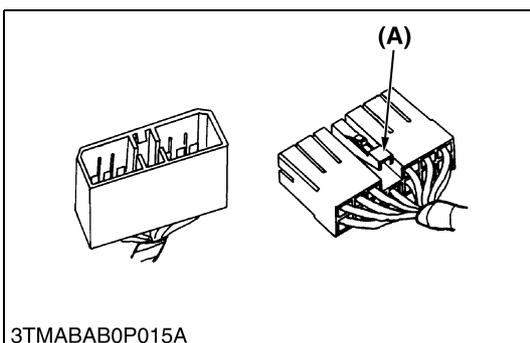
- Use fuses with specified capacity. Neither too large or small capacity fuse is acceptable.
- Never use steel or copper wire in place of fuse.
- Do not install working light, radio set, etc. on machine which is not provided with reserve power supply.
- Do not install accessories if fuse capacity of reserve power supply is exceeded.

(1) Fuse

(2) Slow Blow Fuse

W10120920

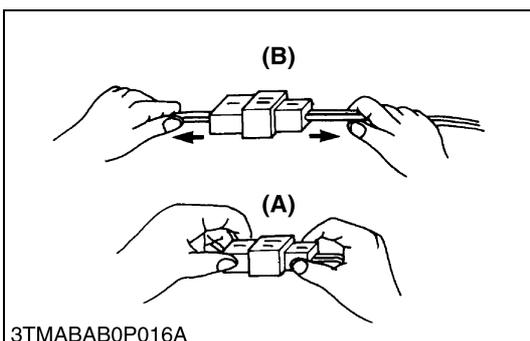
[4] CONNECTOR



- For connector with lock, push lock to separate.

(A) Push

W10122110

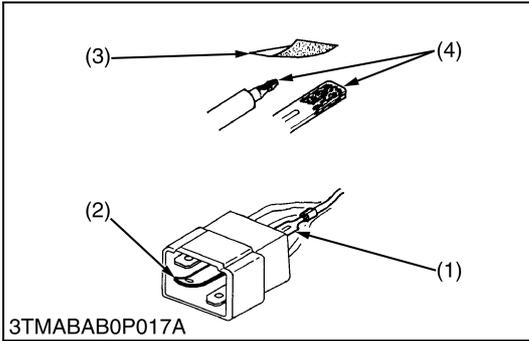


- In separating connectors, do not pull wire harnesses.
- Hold connector bodies to separate.

(A) Correct

(B) Incorrect

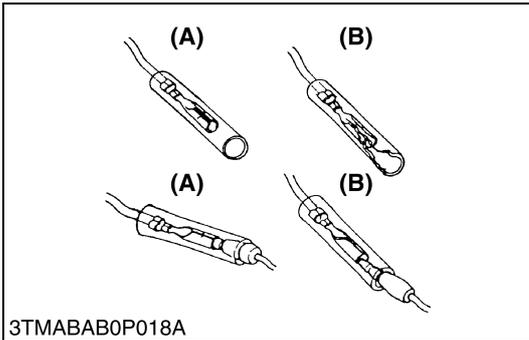
W10122720



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

(1) Exposed Terminal (3) Sandpaper
 (2) Deformed Terminal (4) Rust

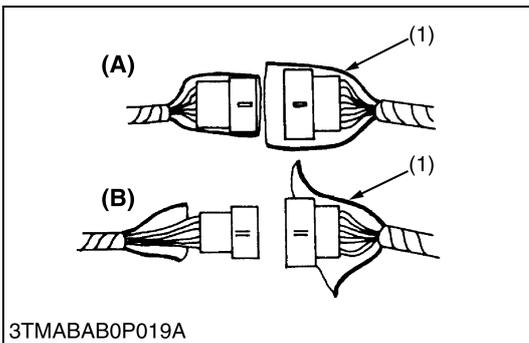
W10123460



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

(A) Correct (B) Incorrect

W10124300

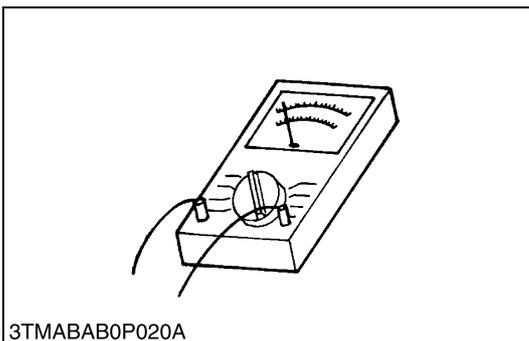


- Make certain plastic cover is large enough to cover whole connector.

(1) Cover (A) Correct (B) Incorrect

W10125190

[5] HANDLING OF CIRCUIT TESTER



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

W10126840

4. LUBRICANTS, FUEL AND COOLANT

	Place	Capacity			Lubricants, fuel and coolant	
		L3130	L3430	L3830		
1	Fuel tank	40 L 10.6 U.S.gals. 8.8 Imp.gals.			No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10 °C (14 °F)	
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	
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.	Engine oil : API service classification CD, CE or CF Above 25 °C : SAE30, (77 °F) 10W-30 or 10W-40 0 to 25 °C : SAE20, (32 to 77 °F) 10W-30 or 10W-40 Below 0 °C : SAE10W, (32 °F) 10W-30 or 10W-40	
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.			KUBOTA UDT or SUPER UDT fluid* or SAE80, 90 gear oil	
Greasing						
	Place	No. of greasing point			Capacity	Type of grease
6	Front wheel hub (2WD)	2	-	2	Until grease overflows	Multipurpose type grease
	Knuckle shaft (2WD)	2	-	2		
	Front axle case support	-				
	Front axle support (4WD)	2				
	Top link	1				
	Top link bracket (if equipped)	2 (with draft control)				
	Lift rod	2				
	Lift cylinder	4				
	Battery terminal	2			Moderate amount	Engine oil
	Throttle cable	Oiling				

* KUBOTA original transmission hydraulic fluid.