

WSM

WORKSHOP MANUAL
TRACTOR

L3301,L3901,L4701

Kubota

TO THE READER

This Workshop Manual tells the servicing personnel about the mechanism, servicing and maintenance of the L3301, L3901 and L4701. It contains 4 parts: "**Information**", "**General**", "**Mechanism**" and "**Servicing**".

■ Information

This section primarily contains information below.

- Safety First
- Safety Decal
- Specifications
- Dimensions

■ General

This section primarily contains information below.

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

■ Mechanism

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

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

■ Servicing

This section primarily contains information below.

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

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

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

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

Record of Revisions

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

Last digit of the Code No.	Issue month	Main Revised Point and Corrective Measures {Search word}	Reference Page
1	2016.09	Maintenance interval was introduced.	G-15 to G-77
		CCV heater equipped model was introduced. Assembling and disassembling process in ENGINE was revised and some wiring diagram, electrical circuit and components are added in ELECTRICAL SYSTEM.	1-S1, 1-S16, 1-S29, 1-S31, 1-S36, 2-S8, 2-S10, 2-S15, 2-S17, 3-S28, 3-S30, 3-S63, 9-M1, 9-M2, 9-S16, 9-S17, 9-S55

I INFORMATION

INFORMATION

CONTENTS

1. SAFETY FIRST	I-1
2. SAFETY DECALS	I-4
[1] L3301/L3901	I-4
[2] L4701	I-7
3. SPECIFICATIONS	I-10
[1] L3301/L3901	I-10
[2] L4701	I-12
4. TRAVELING SPEEDS	I-13
[1] L3301/L3901	I-13
[2] L4701	I-14
5. DIMENSIONS	I-15
[1] L3301/L3901	I-15
[2] L4701	I-16

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.

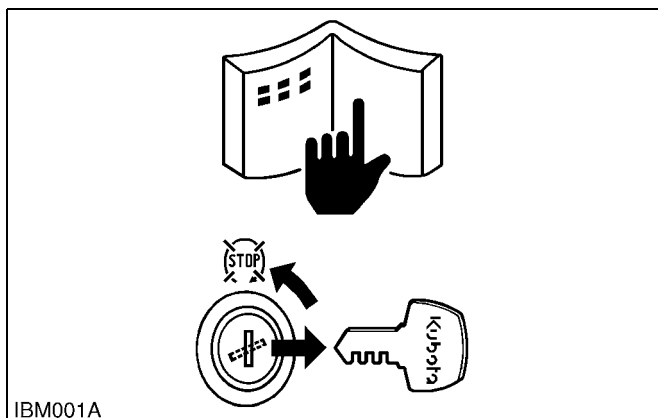
■ IMPORTANT

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

■ NOTE

- Gives helpful information.

WSM000001INI0001US1

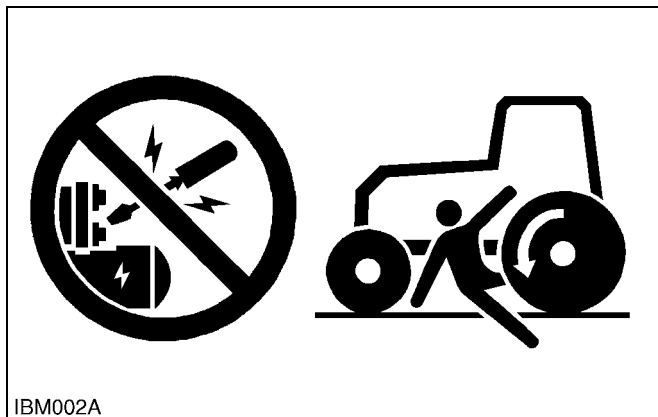


IBM001A

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.

WSM000001INI0010US0

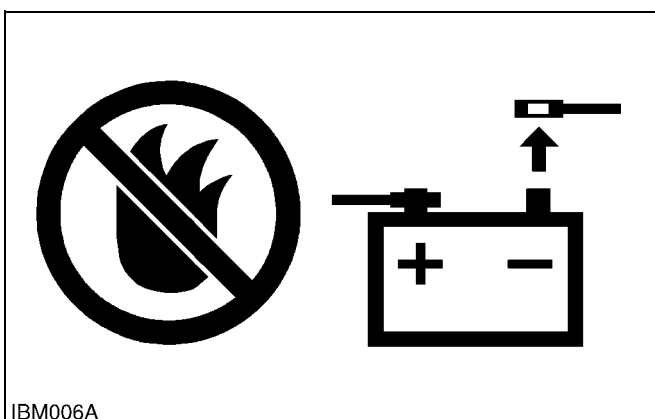
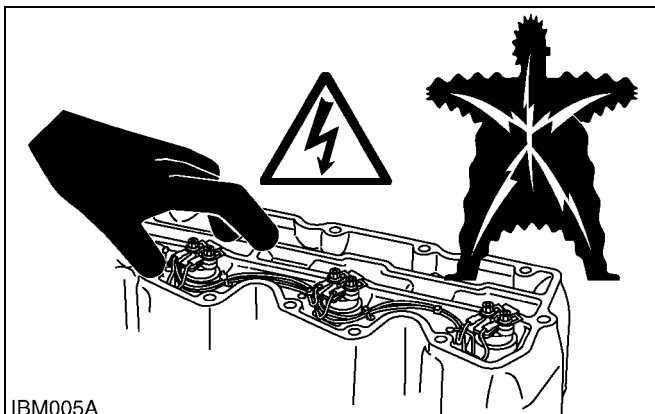
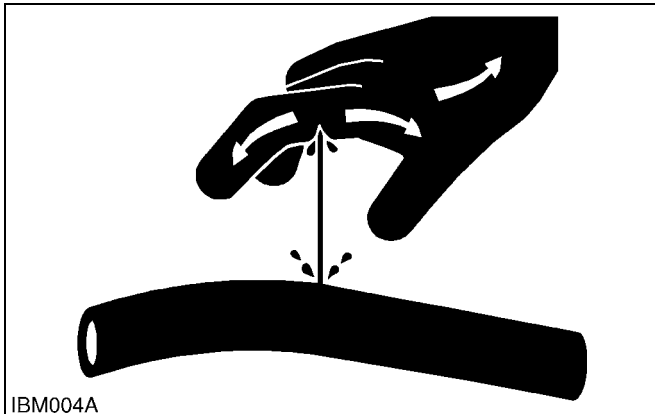
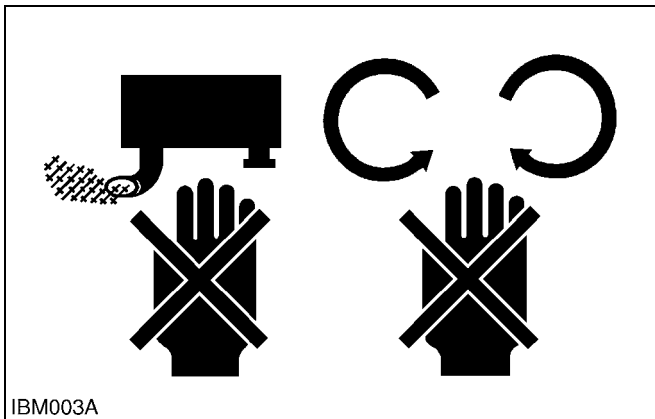


IBM002A

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.

WSM000001INI0015US0



OPERATE SAFELY

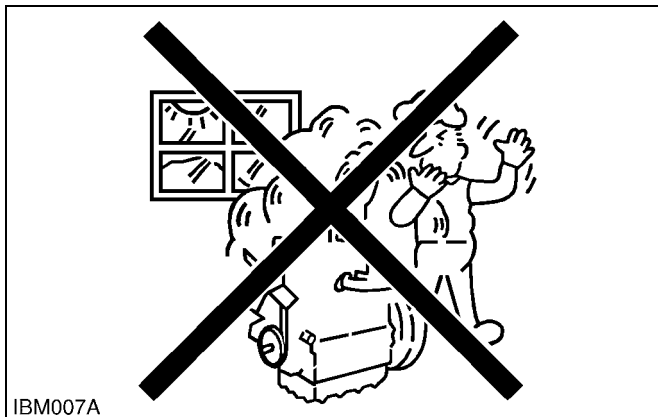
- Do not use the machine after you consume alcohol or medication or when you are tired.
- Put on applicable clothing and safety equipment.
- Use applicable tools only. Do not use alternative tools or parts.
- When 2 or more persons do servicing, make sure that you do it safely.
- Do not operate below 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

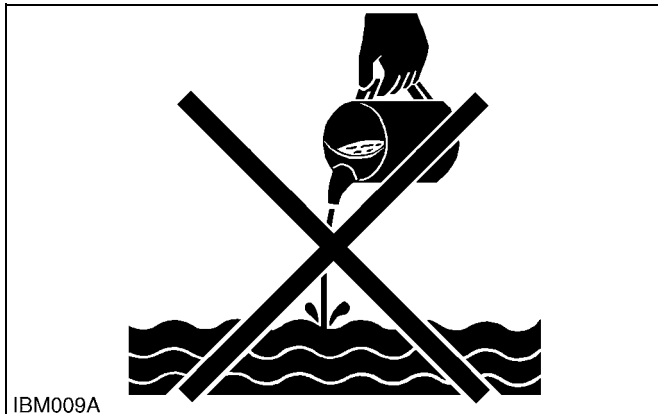
- Fuel is very flammable and explosive under some conditions. Do not smoke or let flames or sparks in your work area.
- To prevent sparks from an accidental short circuit, always disconnect the battery negative cable first and connect it last.
- The battery gas can cause an explosion. Keep the sparks 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**

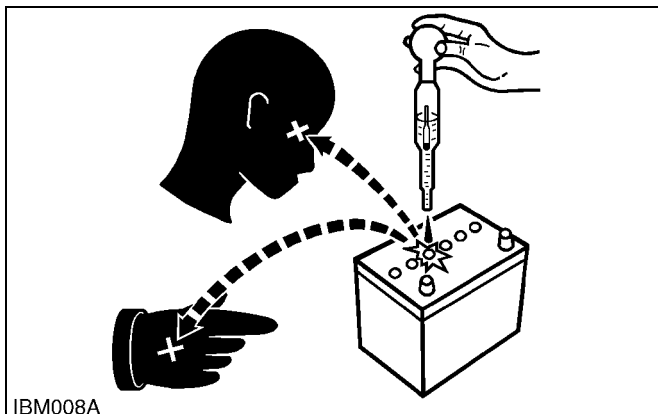
- If the engine is in operation, make sure that the area has good airflow. Do not operate the engine in a closed area. The exhaust gas contains poisonous carbon monoxide.

WSM000001INI0006US0

**DISCARD FLUIDS CORRECTLY**

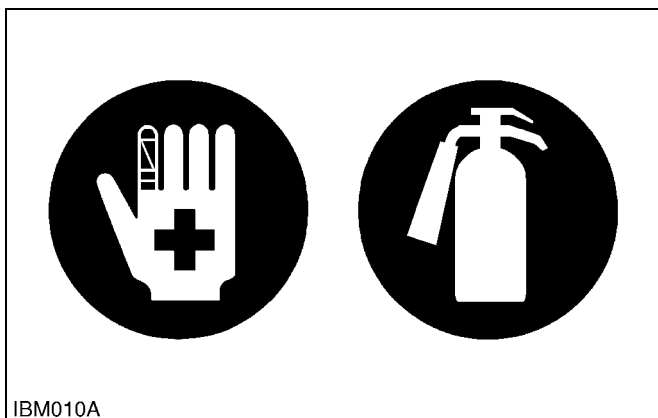
- Do not discard fluids on the ground, down the drain, into a stream, pond, or lake. Obey related environmental protection regulations when you discard oil, fuel, coolant, electrolyte and other dangerous waste.

WSM000001INI0007US0

**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.

WSM000001INI0008US0

**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.

WSM000001INI0009US0

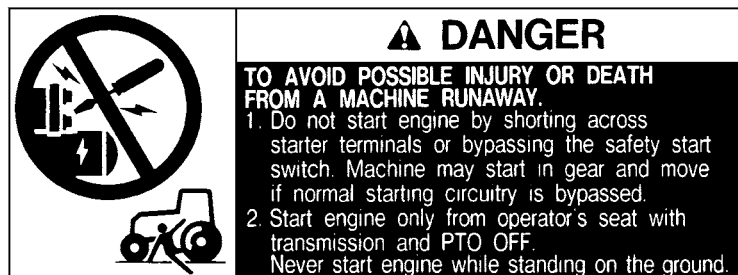
2. SAFETY DECALS

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.

WSM000001INI0013US0

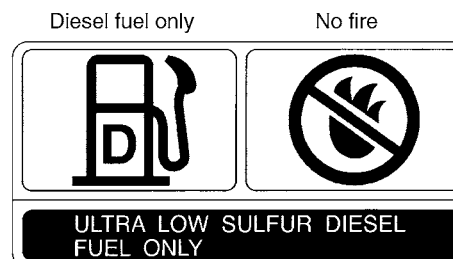
[1] L3301/L3901

(1) Part No. TC630-4965-1



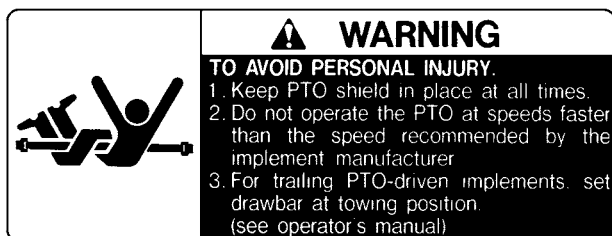
1AGAMAAAP2450

(4) Part No. TC630-4956-1



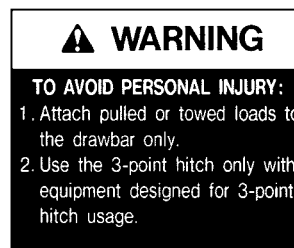
1AGAIDHAP154E

(2) Part No. TC630-4959-1



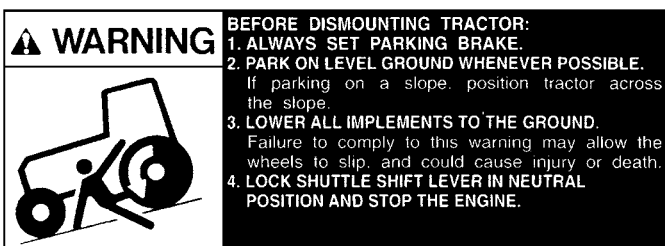
1AGAMAAAP2470

(5) Part No. TC630-4935-1



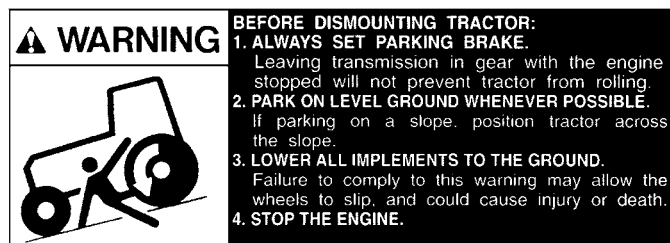
1AGAMAAAP2500

(3) Part No. TC630-4933-1 [Manual Transmission Type]

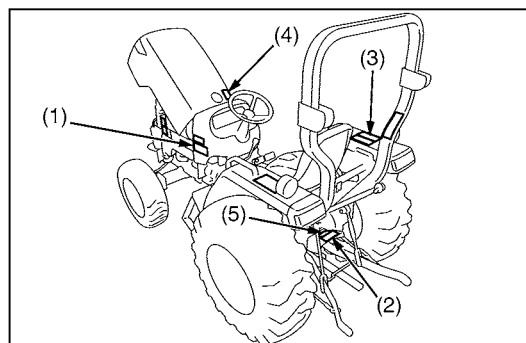


1AGAMAAAP4000

(3) Part No. TC630-5933-1 [HST Type]



1AGAMAAAP3720



9Y1211012ICI001US

9Y1211012INI0001US0

(1) Part No. TC630-4997-1

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.

1AGAMAAAP2390

(2) Part No. TC630-9554-1

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:**

- 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.

1AGAMAAAP2380

(3) Part No. TC630-9848-1

**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.

1AGAEBMAP071E

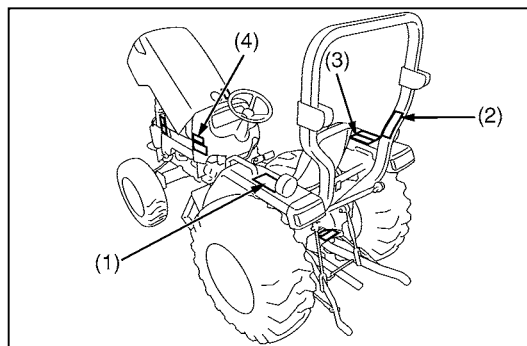
(4) Part No. TC630-9868-1

CAUTION**TO AVOID PERSONAL INJURY:**

When the Diesel Particulate Filter (DPF) is in the regenerating mode, the exhaust gas and the DPF muffler become hot.

During regeneration, take into account that the muffler will be very hot and keep the machine away from other people, animals, plants, and flammable material. Also keep the area near the DPF muffler clean and away from flammable material.

1AGAIJNAP149A



9Y1211012ICI002US

9Y1211012INI0002US0

(1) Part No. TC520-3015-1

FLAMMABLES	SHIELD EYES	KEEP OUT OF THE REACH OF CHILDREN	CAREFUL OF SULFURIC ACID	READ INSTRUCTION MANUAL CAREFULLY	EXPLOSIVE

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.
CALIFORNIA PROPOSITION 65 WARNING: Batteries, battery posts, terminals and related accessories contain lead and lead compounds, and other chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. WASH HANDS AFTER HANDLING.

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
Batteries, battery posts, terminals and related accessories contain lead and lead compounds, and other chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. WASH HANDS AFTER HANDLING.

SMF 75D23R		
PART No. TC520-30151		
NOMINAL VOLTAGE	12V	
COLD CRANKING AMPS	580	
CRANKING AMPS	710	
RESERVE CAPACITY(MINUTES)	110	
AMP HOURS(@20 hr Rate)	65	

FITTING DATE		YEAR		INDICATOR		MADE IN KOREA	
0	1	2	3	4	5	6	7
1	2	3	4	5	6	7	8
9	10	11	12	MONTH	OK	CHARGE	REPLACE

1AGAPCAAP089A

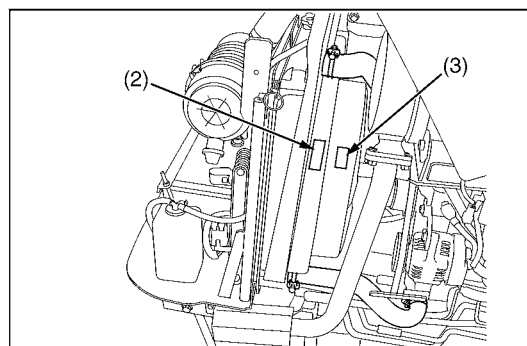
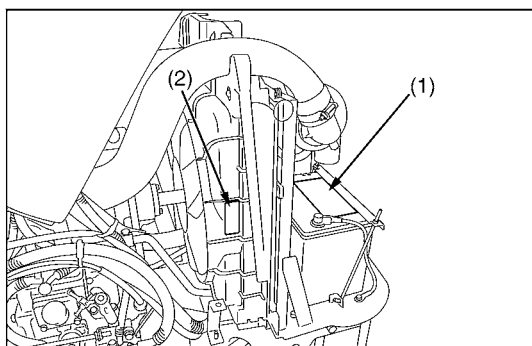
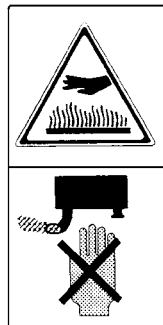
(2) Part No. TC620-4958-1

Do not get your hands close to engine fan and fan belt.



(3) Part No. TC630-4958-1

Do not touch hot surface like muffler, etc.



9Y1211012IC1003US

9Y1211012INI0003US0

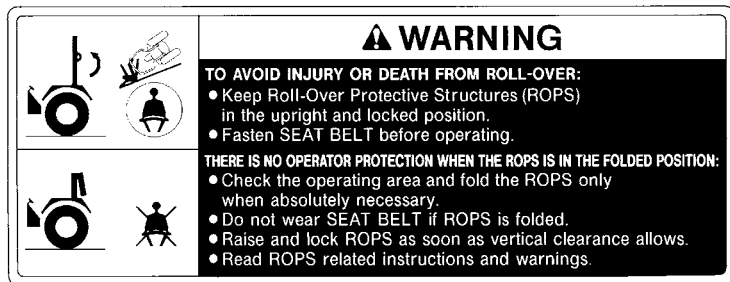
CARE OF DANGER, WARNING AND CAUTION LABELS

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.

9Y1211012INI0004US0

[2] L4701

(1) Part No. TC630-9848-1



1AGAEBMAP071E

(3) Part No. TC630-4956-1

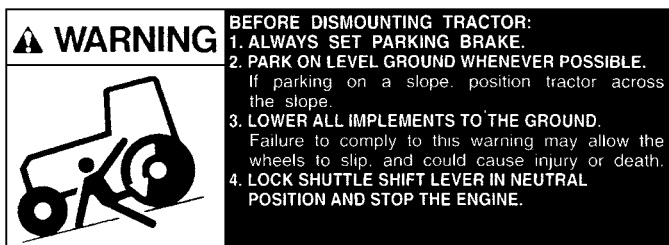
Diesel fuel only

No fire



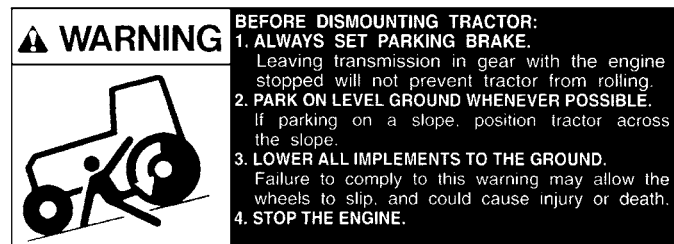
1AGAIDHAP154E

(2) Part No. TC630-4933-1 [Manual Transmission Type]



1AGAMAAAP4000

(2) Part No. TC630-5933-1 [HST Type]



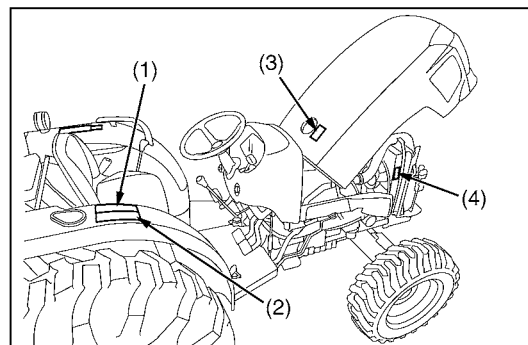
1AGAMAAAP3720

(4) Part No. TC620-4958-1

Do not get your hands close to engine fan and fan belt.



1AGAMAAAP2620



9Y1211012ICI004US

9Y1211012INI0005US0

(1) Part No. TC630-4997-1

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.

1AGAMAAAP2390

(2) Part No. TC630-9868-1

CAUTION**TO AVOID PERSONAL INJURY:**

When the Diesel Particulate Filter(DPF) is in the regenerating mode, the exhaust gas and the DPF muffler become hot.

During regeneration, take into account that the muffler will be very hot and keep the machine away from other people, animals, plants, and flammable material. Also keep the area near the DPF muffler clean and away from flammable material.

1AGAIJNAP149A

(3) Part No. TC630-4965-1



1AGAMAAAP2450

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.

(4) Part No. TC620-4958-1

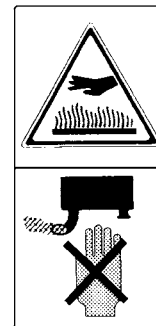
Do not get your hands close to engine fan and fan belt.



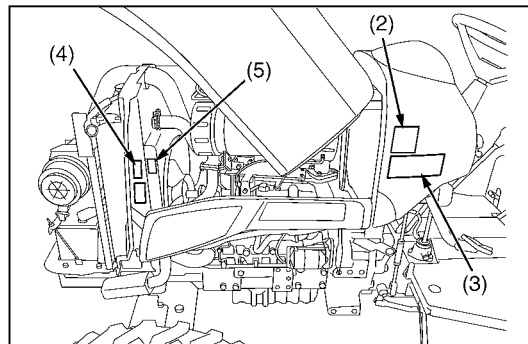
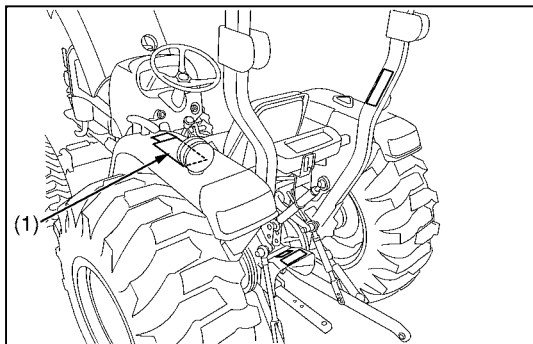
1AGAMAAAP2620

(5) Part No. TC630-4958-1

Do not touch hot surface like muffler, etc.



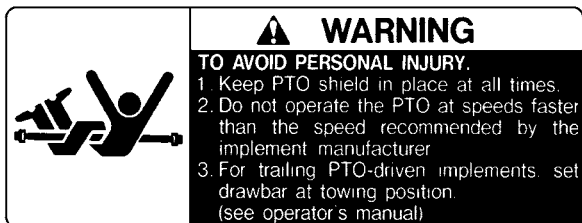
1AGAMAAAP2400



9Y1211012ICI005US

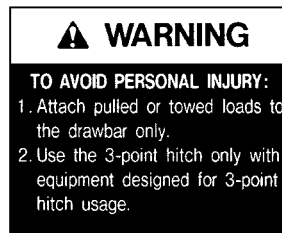
9Y1211012INI0006US0

(1) Part No. TC630-4959-1



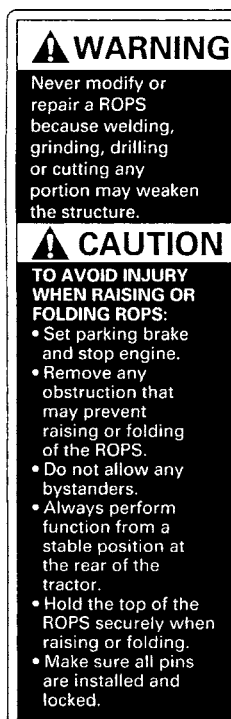
1AGAMAAAP2470

(2) Part No. TC630-4935-1



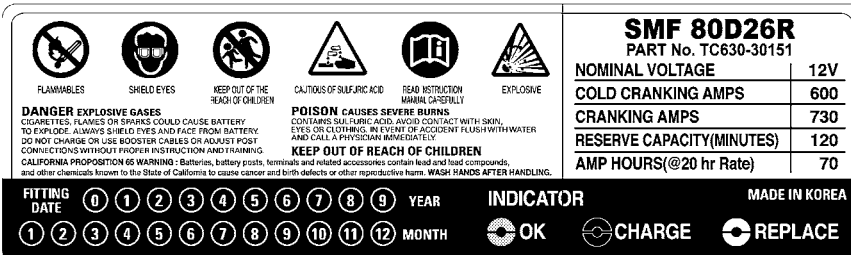
1AGAMAAAP2500

(3) Part No. TC630-9554-1

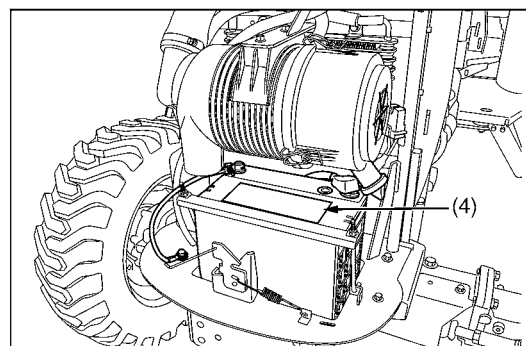
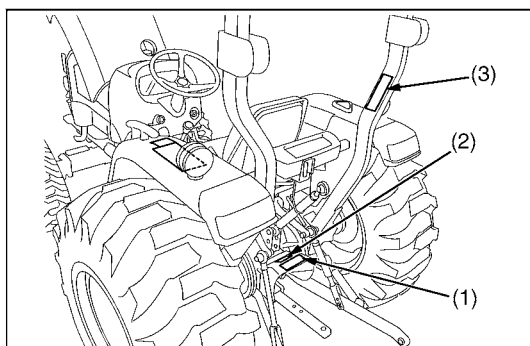


1AGAMAAAP2380

(4) Part No. TC630-3015-1



1AGAHAKAP050E



9Y1211012ICI006US

9Y1211012INI0007US0

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.

9Y1211012INI0004US0

3. SPECIFICATIONS

[1] L3301/L3901

Model			L3301			L3901		
			Manual Transmission		HST	Manual Transmission		HST
			2WD	4WD	4WD	2WD	4WD	4WD
PTO power*			20.7 kW (27.7 HP)		19.5 kW (26.2 HP)	23.9 kW (32.1 HP)		22.8 kW (30.6 HP)
Engine	Model		D1803-CR-E4					
	Type		Direct injection, vertical, water-cooled, 4-cycle diesel					
	Number of cylinders		3					
	Bore and stroke		87 × 102.4 mm (3.4 × 4.0 in.)					
	Total displacement		1.826 L (111.4 cu.in.)					
	Engine gross power*		24.6 kW (33.0 HP)			28.0 kW (37.5 HP)		
	Engine net power*		23.4 kW (31.4 HP)			27.1 kW (36.3 HP)		
	Rated revolution		45.0 rps (2700 rpm)					
	Low idling revolution		15.0 rps (900 rpm)					
	Maximum torque		101.7 N·m (75.0 lbf·ft)			115.8 N·m (85.4 lbf·ft)		
	Battery		[75D23R] 12 V, RC: 110 min, CCA: 580 A					
Capacities	Fuel tank		42.0 L (11.0 U.S.gals, 9.24 Imp.gals)					
	Engine crankcase (with filter)		6.7 L (7.1 U.S.qts, 5.9 Imp.qts)					
	Engine coolant		6.0 L (6.3 U.S.qts, 5.3Imp.qts)					
	Transmission case		28.0 L (7.4 U.S.gals, 6.16 Imp.gals)	28.5 L (7.5 U.S.gals, 6.27 Imp.gals)	23.5 L (6.2 U.S.gals, 5.17 Imp.gals)	28.0 L (7.4 U.S.gals, 6.16 Imp.gals)	28.5 L (7.5 U.S.gals, 6.27 Imp.gals)	23.5 L (6.2 U.S.gals, 5.17 Imp.gals)
Dimensions	Overall length (without 3p)		2810 mm (110.6 in.)	2740 mm (107.9 in.)		2810 mm (110.6 in.)	2740 mm (107.9 in.)	
	Overall width (min. tread)		1400 mm (55.1 in.)					
	Overall height (with ROPS)		2330 mm (91.7 in.)					
	Overall height (Top of steering wheel)		1475 mm (58.1 in.)					
	Wheel base		1610 mm (63.3 in.)					
	Min. ground clearance		345 mm (13.6 in.)	340 mm (13.4 in.)		345 mm (13.6 in.)	340 mm (13.4 in.)	
	Tread	Front	1050 mm (41.3 in.)	1095 mm (43.1 in.)		1050 mm (41.3 in.)	1095 mm (43.1 in.)	
		Rear	1115 mm (43.8 in.), 1195 mm (47.1 in.), 1290 mm (50.8 in.)					
Weight (with ROPS)			1160 kg (2557 lbs)	1240 kg (2734 lbs)	1260 kg (2778 lbs)	1175 kg (2590 lbs)	1255 kg (2767 lbs)	1260 kg (2778 lbs)
Traveling system	Tire	AG Front	5.00-15	7.2-16		5.00-15	7.2-16	
		AG Rear	11.2-24					
	Industrial (option)	Front	—	27 × 8.50-15		—	27 × 8.50-15	
		Rear	—	15-19.5R4		—	15-19.5R4	
	Clutch		Dry type single stage			Dry type dual stage		Dry type single stage
	Steering		Integral type power steering					
	Transmission		Gear shift, 8 forward and 8 reverse		Hydrostatic transmission, 3 range speed	Gear shift, 8 forward and 8 reverse		Hydrostatic transmission, 3 range speed
	Brake		Wet disk type					
	Min. turning radius (with brake)		2.4 m (7.9 feet)	2.5 m (8.2 feet)		2.4 m (7.9 feet)	2.5 m (8.2 feet)	
	Hydraulic unit	Hydraulic control system		Position control				
Pump capacity (main)		23.9 L/min (6.3 gals/min., 5.26 Imp.gals/min.)						
Pump capacity (PS)		14.5 L/min (3.8 gals/min, 3.19 Imp.gals/min.)						
Three point hitch		Category 1						
Max. lift force		At lift points	906 kg (1998 lbs)					
		24 in. behind lift points	651 kg (1435 lbs)					
System pressure		16.2 MPa (165 kgf/cm ² , 2349 psi)						

Model			L3301			L3901		
			Manual Transmission		HST	Manual Transmission		HST
			2WD	4WD	4WD	2WD	4WD	4WD
PTO	Rear PTO	PTO shaft size	SAE 1-3/8, 6 splines					
	Rear PTO	Type	Transmission driven with overrunning		Live-continuous running PTO			
	PTO / Engine speed		540 min ⁻¹ (rpm) / 2430 min ⁻¹ (rpm)		540 min ⁻¹ (rpm) / 2580 min ⁻¹ (rpm)	540 min ⁻¹ (rpm) / 2425 min ⁻¹ (rpm)		540 min ⁻¹ (rpm) / 2580 min ⁻¹ (rpm)

■ **NOTE**

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

9Y1211012INI0008US0

[2] L4701

Model			L4701		
			Manual Transmission		HST
			2WD	4WD	
Engine	Model		V2403-CR-E4		
	Type		Direct 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.)		
	Rated revolution		2600 min ⁻¹ (rpm)		
	Low idling revolution		800 min ⁻¹ (rpm)		
	Net power*		33.4 kW (44.8 HP) / 2600 min ⁻¹ (rpm)		
	PTO power* (factory observed)		29.3 kW (39.3 HP) / 2600 min ⁻¹ (rpm)	28.2 kW (37.8 HP) / 2600 min ⁻¹ (rpm)	
	Maximum torque: Gross		146.2 N·m (107.8 lbf·ft)		
	Battery capacity		12 V, RC: 120 min, CCA: 600 A		
Capacities	Fuel tank		51 L (13.5 U.S.gals, 11 Imp.gals)		
	Engine crankcase (with filter)		8.2 L (8.7 U.S.qts, 7.2 Imp.qts)		
	Engine coolant		6.5 L (6.9 U.S.qts, 5.7 Imp.qts)		
	Transmission case		40 L (10.6 U.S.gals, 8.8 Imp.gals)		
Dimensions	Overall length (without 3p)		3120 mm (122.8 in.)	3035 mm (119.5 in.)	
	Overall width (min. tread)		1585 mm (62.4 in.)		
	Overall height (with ROPS)		2330 mm (91.7 in.)		
	Wheel base		1850 mm (72.8 in.)	1845 mm (72.6 in.)	
	Min. ground clearance		385 mm (15.2 in.)		
	Tread	Front	1280 mm (50.4 in.), 1380 mm (54.3 in.), 1480 mm (58.3 in.), 1580 mm (62.2 in.)	1155 mm (45.5 in.)	
		Rear	1180 mm (46.5 in.), 1200 mm (47.2 in.), 1300 mm (51.2 in.), 1450 mm (57.1 in.),1545 mm (60.8 in.)		
Weight (with ROPS)			1460 kg (3219 lbs)	1495 kg (3296 lbs)	1500 kg (3307 lbs)
Traveling system	Standard tire size	Front	7.5L-15	8.3-16	
		Rear	14.9-24		
	Clutch		Dry type single stage		—
	Steering		Hydrostatic power steering		
	Transmission		Gear shift, 8 forward and 8 reverse		Hydrostatic transmission 3 range speed
	Braking system		Mechanical, Wet disk type		
	Min. turning radius (with brake)		2.7 m (8.9 feet)	2.6 m (8.5 feet)	
Hydraulic unit	Hydraulic control system		Position control		
	Pump capacity		29.4 L (7.8 U.S.gals, 6.47 Imp.gals) /min.		
	Three point hitch		Category 1		
	Max. lift force	At lift points	1300 kg (2870 lbs)		
		24 in. behind lift points	1053 kg (2320 lbs)		
System pressure		17.7 MPa (180 kgf/cm ² , 2560 psi)			
PTO	Rear PTO	PTO shaft size	SAE 1-3/8, 6 splines		
	PTO / Engine speed		540 min ⁻¹ (rpm) / 2475 min ⁻¹ (rpm)		540 min ⁻¹ (rpm) / 2640 min ⁻¹ (rpm)

■ NOTE

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

9Y1211012INI0009US0

4. TRAVELING SPEEDS

[1] L3301/L3901

[Manual Transmission Type]

(At rated engine rpm)

Model			L3301/L3901
Tire size (Rear)			11.2-24
	Range gear shift lever	Main gear shift lever	km/h (mph)
Forward	Low	1	1.7 (1.1)
		2	2.2 (1.4)
		3	3.8 (2.3)
		4	5.6 (3.5)
	High	1	6.6 (4.1)
		2	8.5 (5.3)
		3	14.4 (8.9)
		4	21.2 (13.2)
Reverse	Low	1	1.7 (1.1)
		2	2.2 (1.4)
		3	3.8 (2.3)
		4	5.6 (3.4)
	High	1	6.5 (4.1)
		2	8.5 (5.3)
		3	14.3 (8.9)
		4	21.1 (13.1)

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

9Y1211012INI0010US0

[HST Type]

(At rated engine rpm)

Model		L3301/L3901
Tire size (Rear)		11.2-24
	Range shift lever	km/h (mph)
Forward	L	6.3 (3.9)
	M	10.9 (6.8)
	H	22.7 (14.1)
Reserve	L	5.6 (3.5)
	M	9.9 (6.1)
	H	20.5 (12.7)

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

9Y1211012INI0011US0

[2] L4701**[Manual Transmission Type]**

(At rated engine rpm)

Model			L4701
Tire size (Rear)			14.9-24
	Range gear shift lever	Main gear shift lever	km/h (mph)
Forward	Low	1	2.2 (1.4)
		2	2.8 (1.7)
		3	4.6 (2.8)
		4	6.7 (4.2)
	High	1	8.0 (5.0)
		2	10.0 (6.2)
		3	16.3 (10.1)
		4	24.0 (14.9)
Reverse	Low	1	2.1 (1.3)
		2	2.7 (1.7)
		3	4.4 (2.7)
		4	6.4 (4.0)
	High	1	7.7 (4.8)
		2	9.6 (6.0)
		3	15.6 (9.7)
		4	23.0 (14.3)

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

9Y1211012INI0012US0

[HST Type]

(At rated engine rpm)

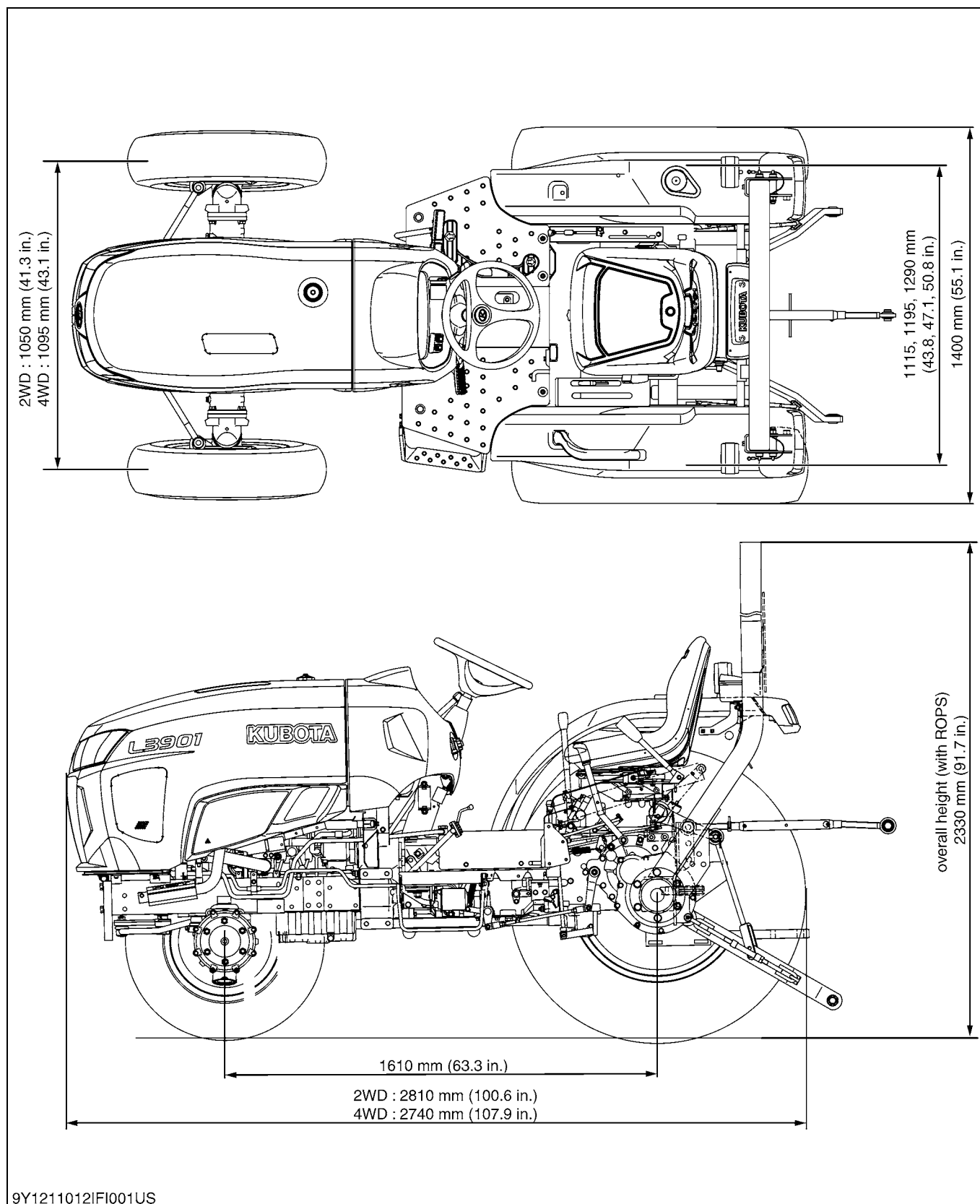
Model		L4701
Tire size (Rear)		14.9-24
	Range shift lever	km/h (mph)
Forward	L	5.9 (3.7)
	M	12.2 (7.6)
	H	25.4 (15.8)
Reverse	L	5.3 (3.3)
	M	11.0 (6.8)
	H	22.9 (14.2)

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

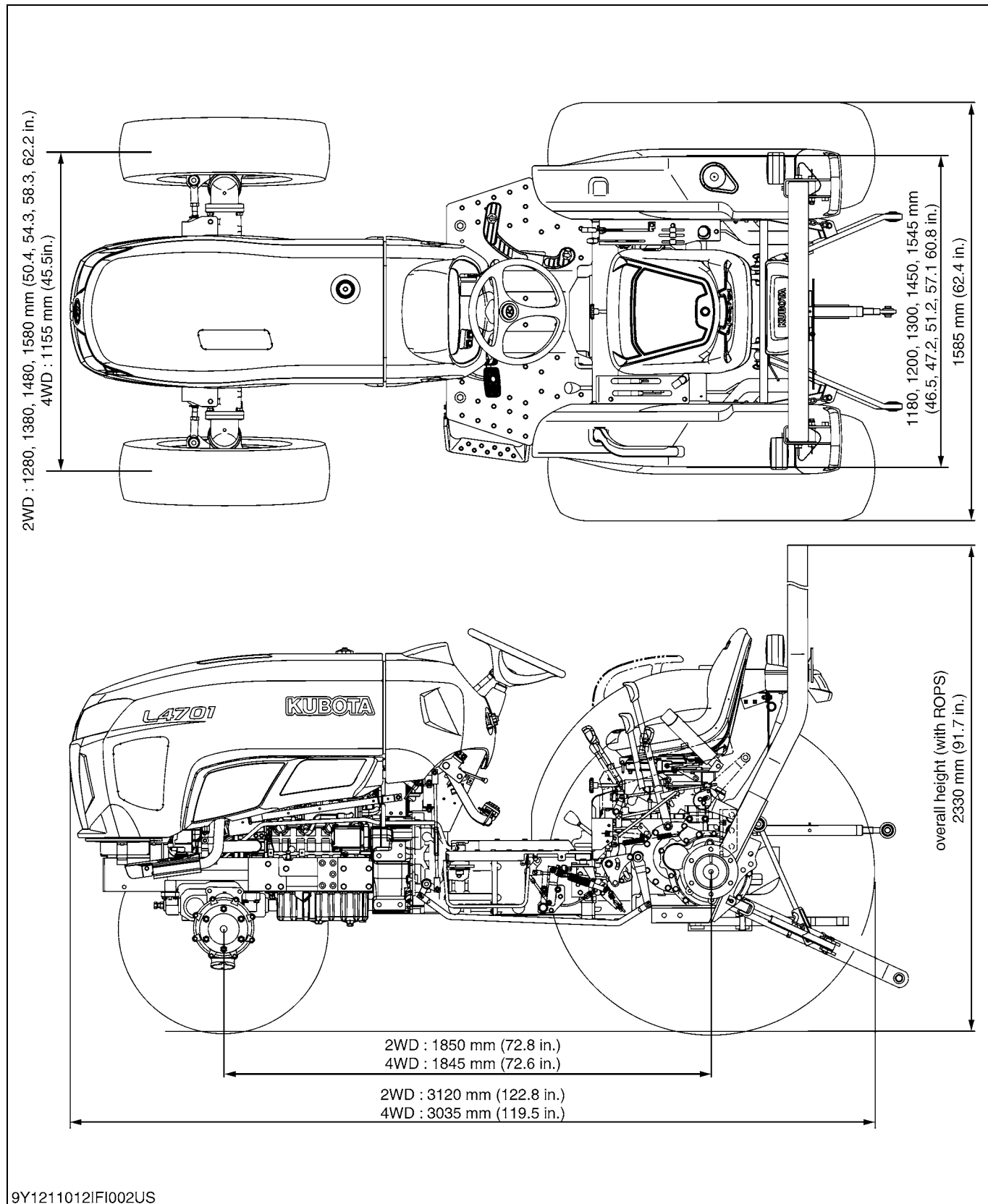
9Y1211012INI0013US0

5. DIMENSIONS

[1] L3301/L3901



9Y1211012INI0014US0

[2] L4701

G GENERAL

GENERAL

CONTENTS

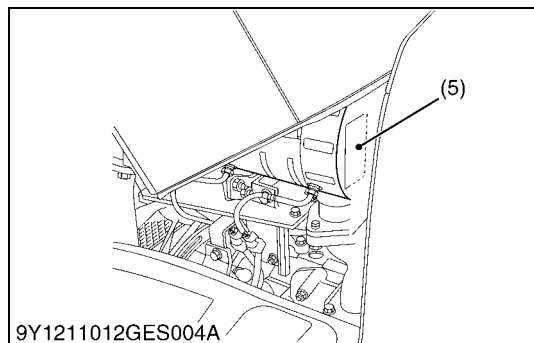
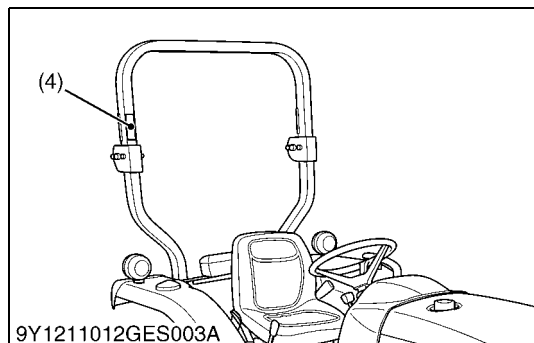
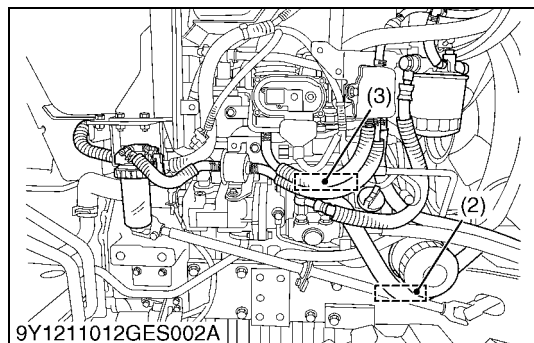
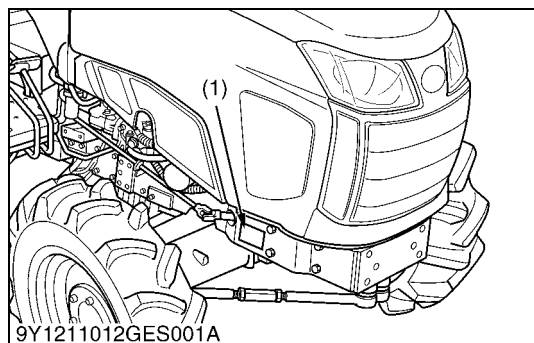
1. TRACTOR IDENTIFICATION	G-1
[1] MODEL NAME AND SERIAL NUMBERS	G-1
(1) L3301/L3901	G-1
(2) L4701	G-2
[2] E4B ENGINE	G-3
[3] CYLINDER NUMBER	G-3
2. GENERAL PRECAUTIONS	G-4
3. HANDLING PRECAUTIONS FOR ELECTRICAL PARTS AND WIRING	G-5
[1] WIRING	G-5
[2] BATTERY	G-7
[3] FUSE	G-7
[4] CONNECTOR	G-7
[5] CIRCUIT TESTER	G-8
[6] COLOR OF WIRING	G-9
4. LUBRICANTS, FUEL AND COOLANT	G-10
[1] L3301/L3901	G-10
[2] L4701	G-11
5. TIGHTENING TORQUES	G-13
[1] GENERAL USE SCREWS, BOLTS AND NUTS	G-13
[2] STUD BOLTS	G-13
[3] METRIC SCREWS, BOLTS AND NUTS	G-14
[4] AMERICAN STANDARD SCREWS, BOLTS AND NUTS WITH UNC OR UNF THREADS	G-14
[5] PLUGS	G-14
6. MAINTENANCE CHECK LIST	G-15
[1] L3301/L3901	G-15
[2] L4701	G-18
7. CHECK AND MAINTENANCE	G-21
[1] L3301/L3901	G-21
(1) Daily Check	G-21
(2) Check Points of Every 50 Hours	G-26
(3) Check Points of Every 100 Hours	G-29
(4) Check Points of Every 200 Hours	G-34
(5) Check Points of Every 400 Hours	G-36
(6) Check Point of Every 600 Hours	G-39
(7) Check Point of Every 800 Hours	G-40
(8) Check Points of Every 1500 Hours	G-40
(9) Check Points of Every 3000 Hours	G-41
(10) Check Points of Every 1000 Hours or 1 year	G-41
(11) Check Points of Every 1 Year	G-41
(12) Check Points of Every 2000 Hours or 2 Years	G-43
(13) Check Points of Every 2 Years	G-45
(14) Check points of Every 4 Years	G-45
(15) Others	G-46
[2] L4701	G-50
(1) Daily Check	G-50
(2) Check Points of Every 50 Hours	G-55
(3) Check Points of Every 100 Hours	G-58
(4) Check Points of Every 200 Hours	G-62

(5) Check Points of Every 400 Hours.....	G-64
(6) Check Point of Every 600 Hours.....	G-66
(7) Check Point of Every 800 Hours.....	G-67
(8) Check Points of Every 1500 Hours.....	G-67
(9) Check Points of Every 3000 Hours.....	G-68
(10)Check Points of Every 1000 Hours or 1 year	G-68
(11)Check Points of Every 1 Year	G-68
(12)Check Points of Every 2000 Hours or 2 Years	G-71
(13)Check Points of Every 2 Years.....	G-73
(14)Check points of Every 4 Years	G-73
(15)Others.....	G-74
8. SPECIAL TOOLS.....	G-78
[1] SPECIAL TOOLS FOR ENGINE	G-78
[2] SPECIAL TOOLS FOR TRACTOR	G-89
9. TIRES	G-99
[1] TIRE PRESSURE	G-99
[2] TREADS ADJUSTMENT	G-100
(1) L3301/L3901	G-100
(2) L4701	G-102
[3] TIRE LIQUID INJECTION.....	G-106
10. IMPLEMENT LIMITATIONS	G-109

1. TRACTOR IDENTIFICATION

[1] MODEL NAME AND SERIAL NUMBERS

(1) L3301/L3901



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

- | | |
|----------------------------------|---|
| (1) Tractor Identification Plate | (4) ROPS Identification Plate
(ROPS Serial Number) |
| (2) Tractor Serial Number | (5) Diesel Particulate Filter (DPF) Serial
Number |
| (3) Engine Serial Number | |

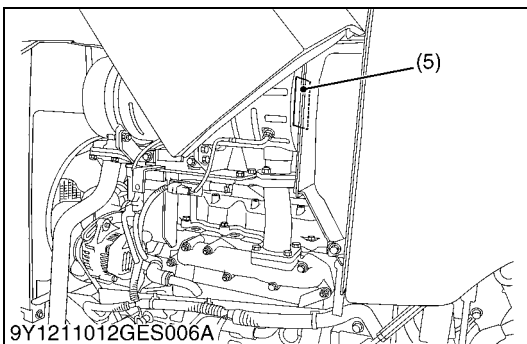
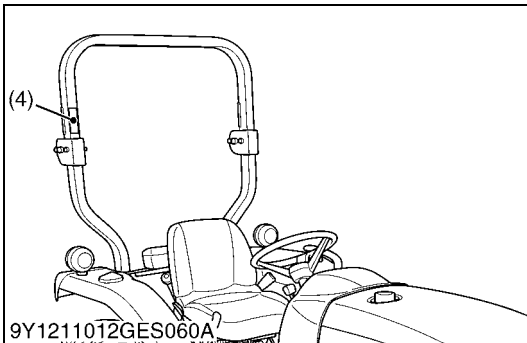
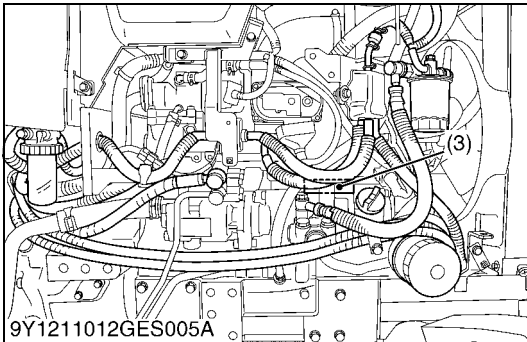
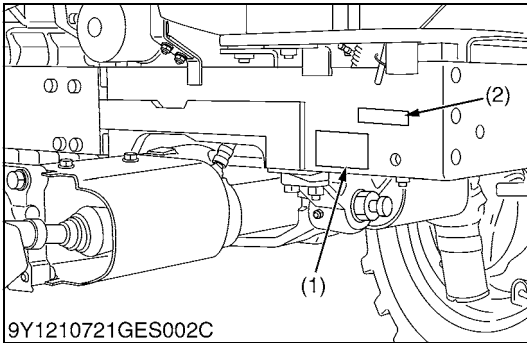
9Y1211012GEG0001US0

(2) L4701

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

- | | |
|----------------------------------|--|
| (1) Tractor Identification Plate | (4) ROPS Identification Plate (ROPS Serial Number) |
| (2) Tractor Serial Number | (5) Diesel Particulate Filter (DPF) Serial Number |
| (3) Engine Serial Number | |

9Y1211012GEG0002US0




[2] E4B ENGINE

[Example: Engine Model Name V2403-CR-TE4]


The emission controls previously implemented in various countries to prevent air pollution will be stepped up as Nonroad Emission Standards continue to change. The timing or applicable date of the specific Nonroad Emission regulations depends on the engine output classification.

Over the past several years, KUBOTA has been supplying diesel engines that comply with regulations in the respective countries affected by Nonroad Emission regulations. For KUBOTA Engines, E4B will be the designation that identifies engine models affected by the next emission phase (See the table below).

When servicing or repairing ###-E4B series engines, use only replacement parts for that specific E4B engine, designated by the appropriate E4B KUBOTA Parts List and perform all maintenance services listed in the appropriate KUBOTA Operator's Manual or in the appropriate E4B KUBOTA Workshop Manual. Use of incorrect replacement parts or replacement parts from other emission level engines (for example: E3B engines), may result in emission levels out of compliance with the original E4B design and EPA or other applicable regulations. Please refer to the emission label located on the engine head cover to identify Output classification and Emission Control Information. E4B engines are identified with "EF" at the end of the Model designation, on the US EPA label. Please note: E4B is not marked on the engine.

TYPE :	#####
FAMILY :	#####
APPROVAL NUMBER:	#####/#####/#####
 KUBOTA Corporation	
####	

(1) (2)

EMISSION CONTROL INFORMATION	
THIS ENGINE MEETS 2012 ##### EMISSION REGULATIONS FOR U.S. EPA AND CALIFORNIA NONROAD ENGINES.	
 KUBOTA Corporation	
MODEL :	### - EF ##### ENGINE DISP. : ###
FAMILY :	C #####
POWER :	## kW / ## rpm CATEGORY: ## - ## kW
VALVE CLEARANCE (COLD) :	IN ## mm EX ## mm
ECS :	### ###
ULTRA LOW SULFUR DIESEL FUEL ONLY	
DEL. ASSY.	####

9Y1200165GES001A

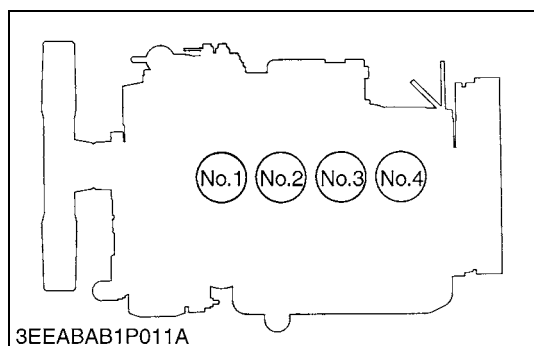
Category (1)	Engine output classification	EU regulation
K	From 19 to 37 kW	STAGE IIIB
P	From 37 to less than 56 kW	STAGE IIIB
N	From 56 to less than 75 kW	STAGE IIIB
M	From 75 to less than 130 kW	STAGE IIIB

Category (2)	Engine output classification	EPA regulation
EF	Less than 19 kW	Tier 4
	From 19 to less than 56 kW	Interim Tier 4
	From 56 to less than 75 kW	Interim Tier 4
	From 75 to less than 130 kW	Interim Tier 4

- (1) EU regulation engine output classification category
 (2) "E4B" engines are identified with "EF" at the end of the Model designation, on the US EPA label.
 "E4B" designates some Interim Tier 4 / Tier 4 models, depending on engine output classification.

9Y1211012GEG0003US0

[3] CYLINDER NUMBER

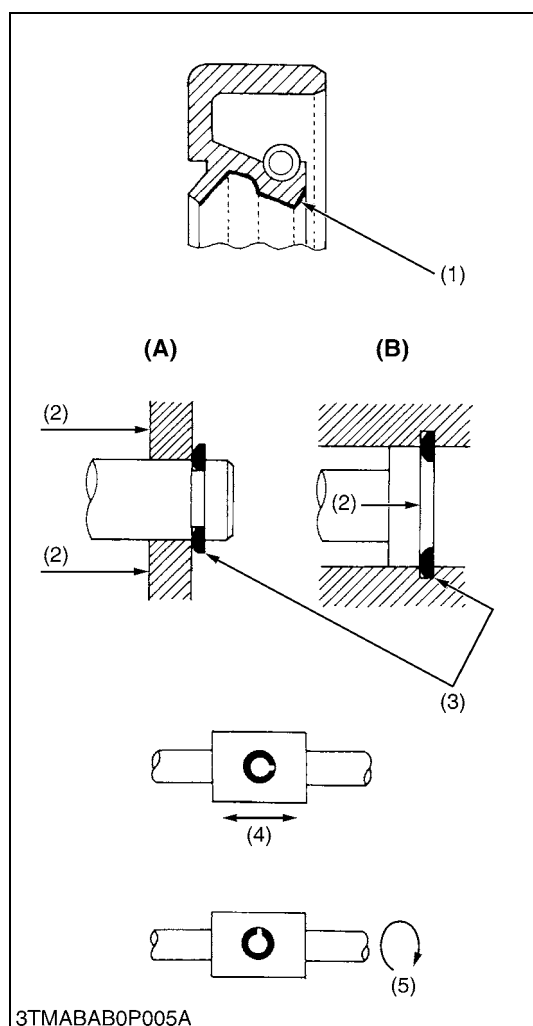


The cylinder numbers of KUBOTA diesel engine are designated as shown in the figure.

The sequence of cylinder numbers is given as No.1, No.2, No.3 and No.4 starting from the gear case side.

9Y1211012GEG0004US0

2. GENERAL PRECAUTIONS



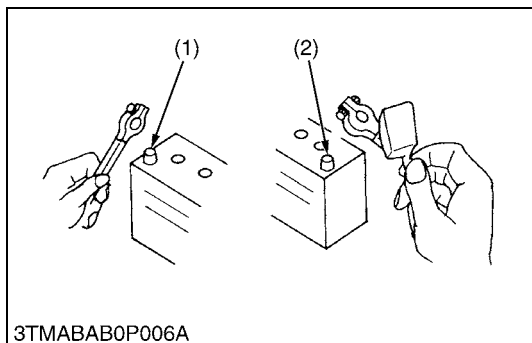
- When you disassemble, carefully put the parts in a clean area to make it easy to find the parts. You must install the screws, bolts and nuts in their initial position to prevent the reassembly errors.
- When it is necessary to use special tools, use KUBOTA special tools. Refer to the drawings when 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

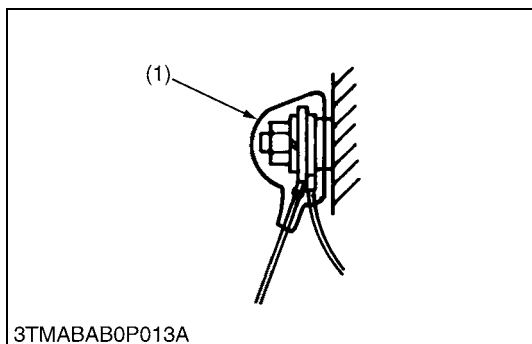
- Check electrical wiring for damage and loosened connection every year. To this end, educate the customer to do his or her own check and at the same time recommend the dealer to perform periodic check for a fee.
- Do not try to modify or remodel any electrical parts and wiring.
- When removing the battery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

(1) Negative Terminal

(2) Positive Terminal

WSM000001GEG0062US0

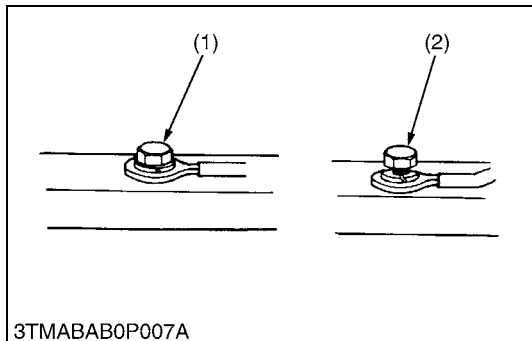
[1] WIRING



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

(1) Cover
(Securely Install Cover)

WSM000001GEG0070US0

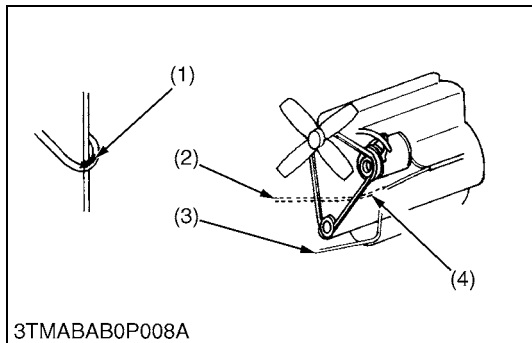


- Securely tighten wiring terminals.

(1) Correct
(Securely Tighten)

(2) Incorrect
(Loosening Leads to damaged Contact)

WSM000001GEG0063US0



- Do not let wiring contact dangerous part.

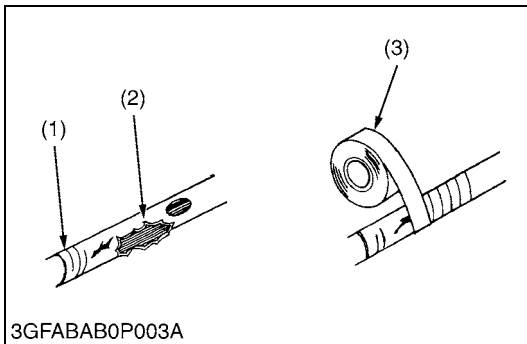
(1) Dangerous Part (Sharp Edge)

(2) Wiring (Incorrect)

(3) Wiring (Correct)

(4) Dangerous Part

WSM000001GEG0064US0

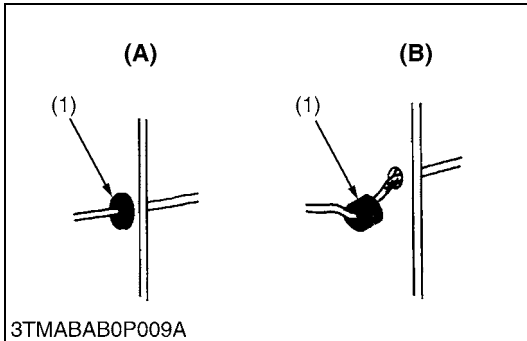


- Repair or change torn or aged wiring immediately.

(1) Aged
(2) Torn

(3) Insulating Vinyl Tape

WSM000001GEG0065US0

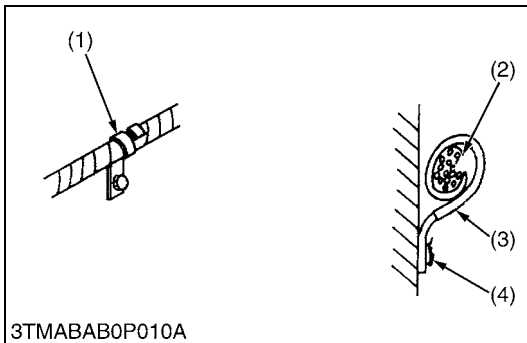


- Securely insert grommet.

(1) Grommet

(A) Correct
(B) Incorrect

WSM000001GEG0066US0

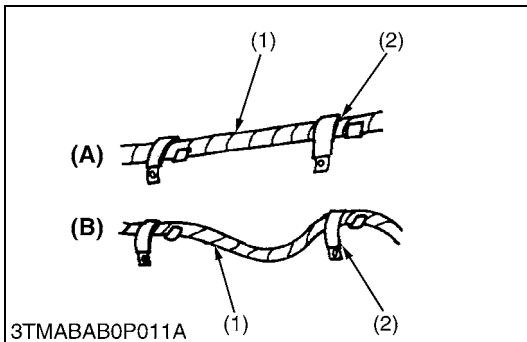


- Securely clamp, being careful not to damage wiring.

(1) Clamp
(2) Wire Harness
(Wind Clamp Spirally)

(3) Clamp
(4) Welding Dent

WSM000001GEG0067US0

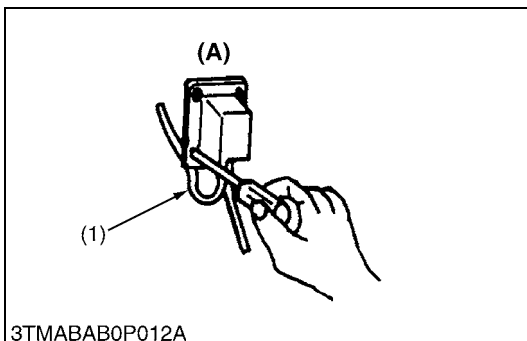


- Clamp wiring so that there is no twist, unnecessary sag, or excessive tension, except for movable part, where sag be required.

(1) Wiring
(2) Clamp

(A) Correct
(B) Incorrect

WSM000001GEG0068US0



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

(1) Wiring

(A) Incorrect

WSM000001GEG0069US0

Please click here and go
back to our website.

BUY NOW

Then Instant Download the
Complete Manual.

Thank you very much!