WSM

WORKSHOP MANUAL
TRACTOR

L3240,L3540,L4240,
L5240,L5740

Kubota

KiSC issued 08, 2011 A

TO THE READER

This Workshop Manual has been prepared to provide servicing personnel with information on the mechanism, service and maintenance of KUBOTA Tractor L3240, L3540, L4240, L5240 and L5740. It is divided into three parts, “General”, “Mechanism” and “Servicing” for each section.

■ **General**

Information on the tractor identification, the general precautions, maintenance check list, check and maintenance and special tools are described.

■ **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. 9Y021-01874 / 9Y021-18201) for the one which has not been described to this workshop manual.

■ **Servicing**

Information on the troubleshooting, servicing specification lists, tightening torque, 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.

October 2007

KiSC issued 08, 2011 A

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.

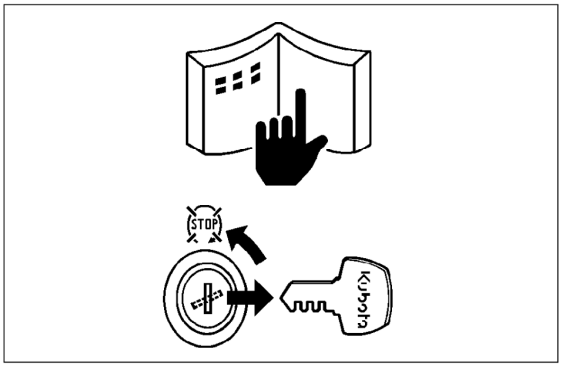
DANGER : **Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.**

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.**

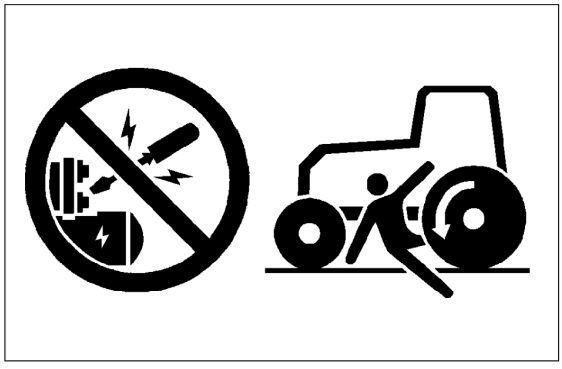
■ **IMPORTANT** : **Indicates that equipment or property damage could result if instructions are not followed.**

■ **NOTE** : **Gives helpful information.**



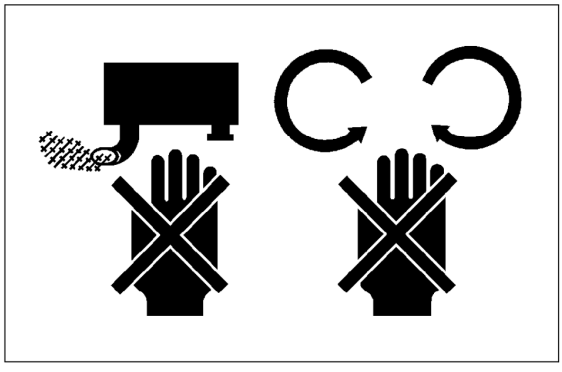
BEFORE SERVICING AND REPAIRING

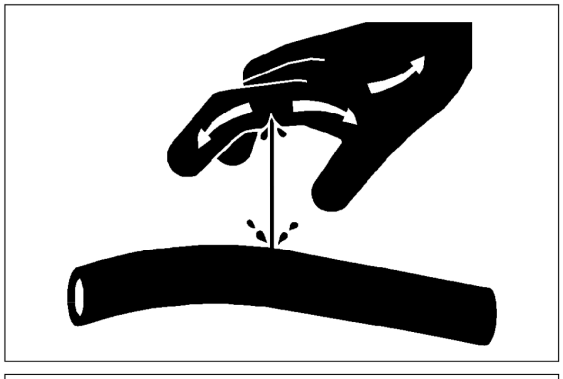
- Read all instructions and safety instructions in this manual and on your machine safety decals.
- Clean the work area and machine.
- Park the machine on a firm and level ground, and set the parking brake.
- Lower the implement to the ground.
- Stop the engine, and remove the key.
- Disconnect the battery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

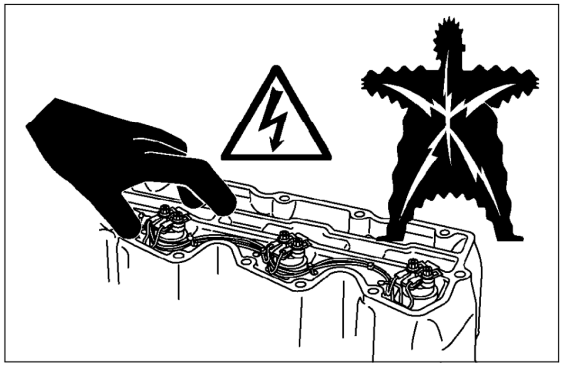


SAFETY STARTING

- 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.

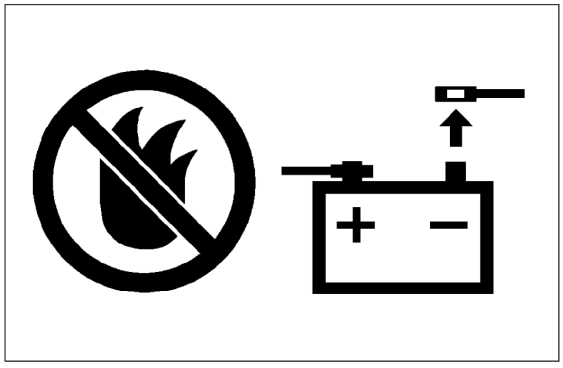






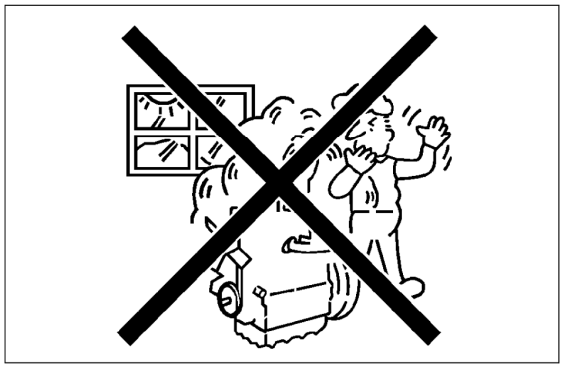
SAFETY WORKING

- 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.
- Do not open high-pressure fuel system. High-pressure fluid remaining in fuel lines can cause serious injury. Do not disconnect or attempt repair or fuel lines, sensors, or any other components between the high-pressure fuel pump and injectors on engines with high pressure common rail fuel system.
- High voltage exceeding 100 V is generated in the ECU and injector. Pay sufficient caution to electric shock when performing work activities.



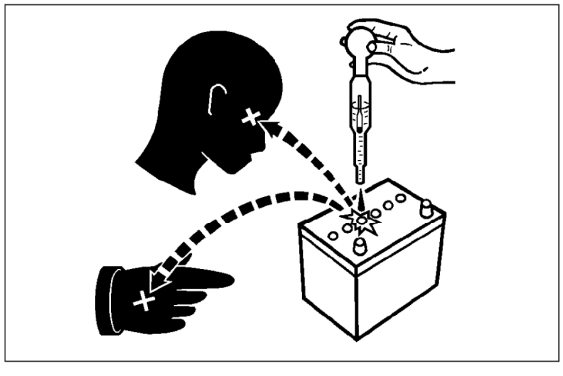
AVOID FIRES

- 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.

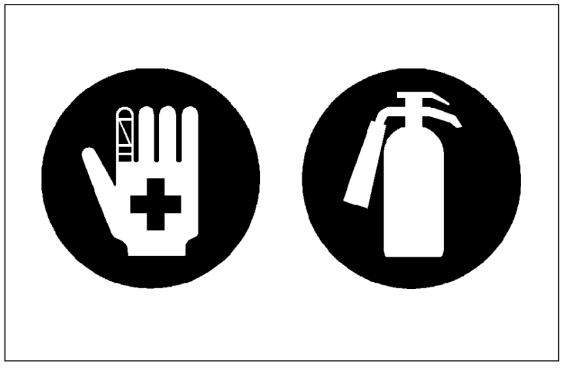


PREVENT ACID BURNS

- 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

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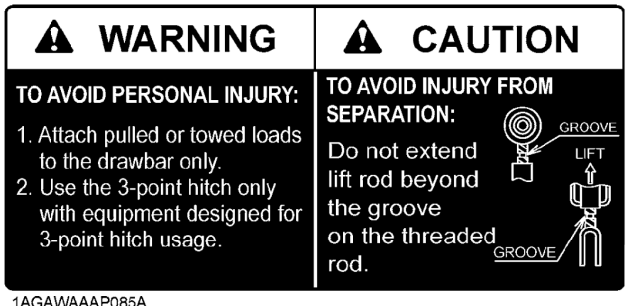
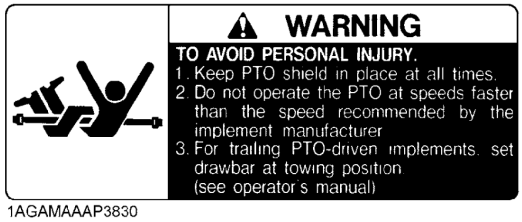
(2) Part No. TD170-4935-1



1AGAWAAAP085A

(3) Part No. TA040-4959-3



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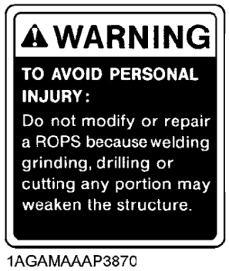
(4) Part No. 6C140-4746-1
[Foldable ROPS type]



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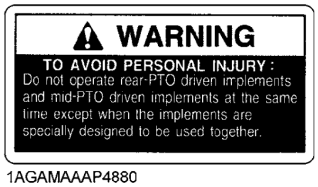
(5) Part No. TA040-4934-2



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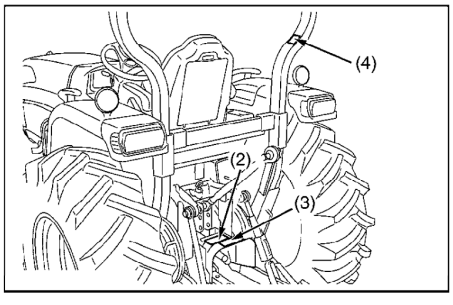
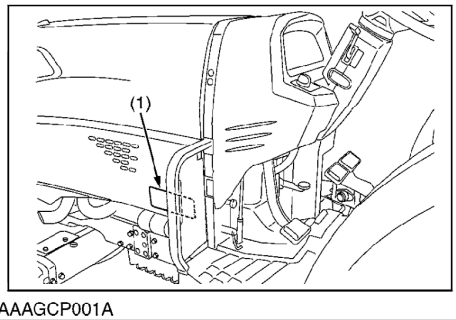
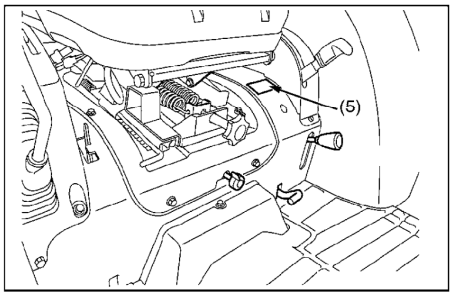
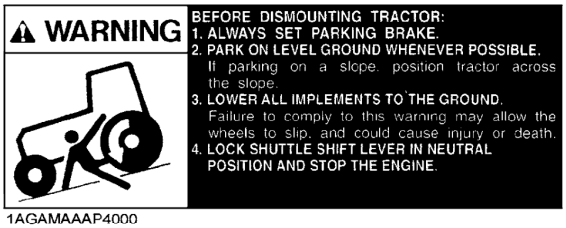






3TLAAAGCP001A

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



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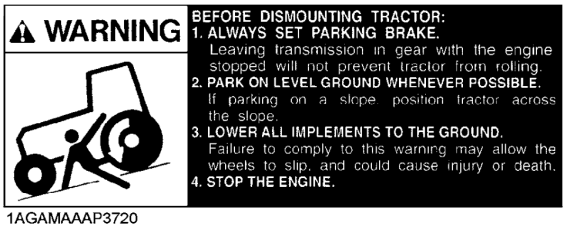
(1) Part No. TA240-4933-2 [HST type]



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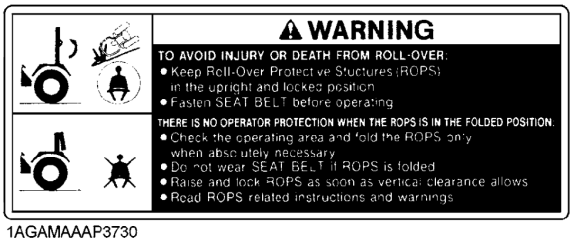
(2) Part No. TA240-9848-1 [Foldable ROPS type]



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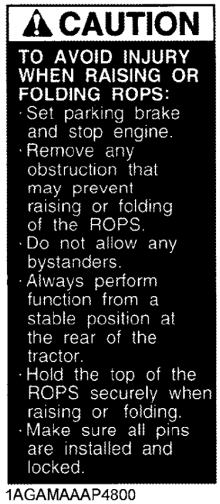
(3) Part No. 6TD060-4927-1 [Foldable ROPS type]



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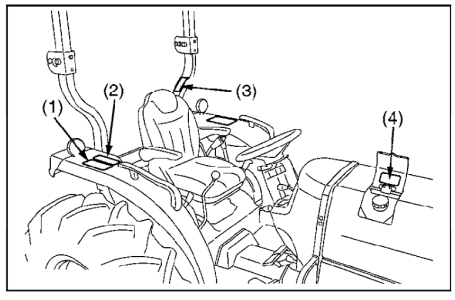
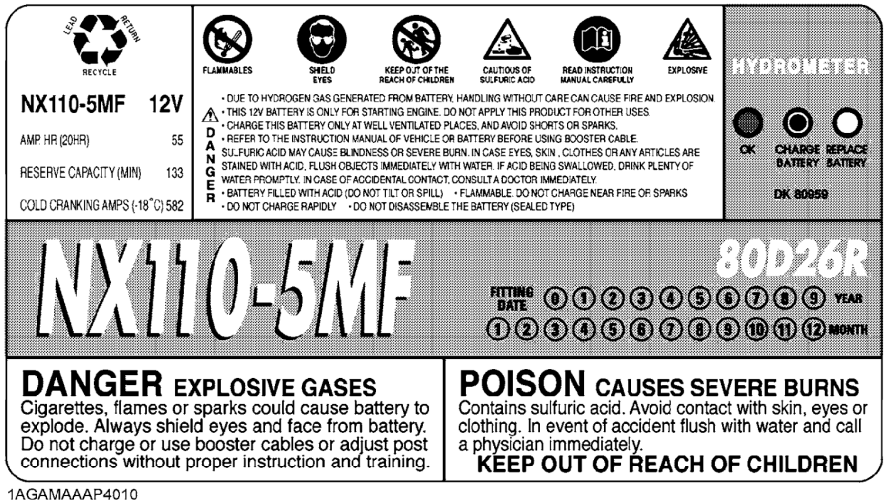
(4) Part No. TA040-4956-2
Diesel fuel only. No fire

1AGAMAAAP3840



3TLAAANCP001A

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



1AGAMAAAP4010

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

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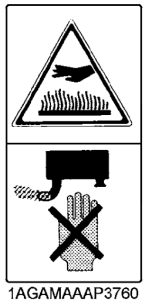
(3) Part No. TC030-4958-1
Do not touch hot surface like mufler, etc.



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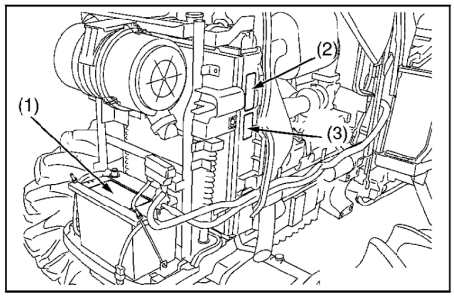

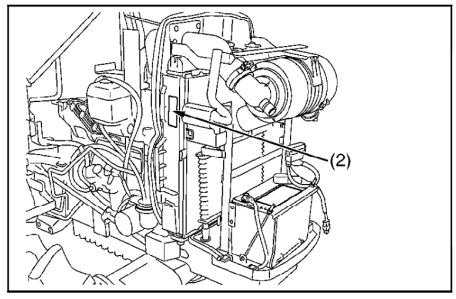

3TLAAAGCP003C

(1) Part No. 35260-3491-4

⚠CAUTION

TO AVOID PERSONAL INJURY:

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

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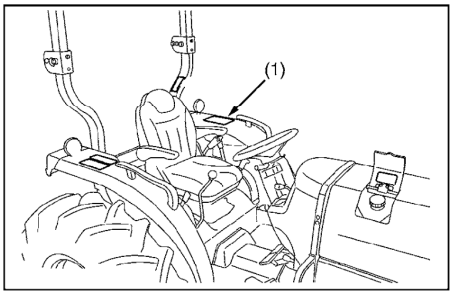

3TLAAAGCP004A

(1) Part No. TD170-4938-1

⚠ CAUTION

TO AVOID PERSONAL INJURY:

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

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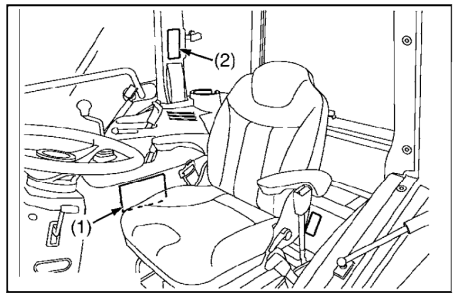
(2) Part No. TA040-4902-1

1AGAMAOAP0780



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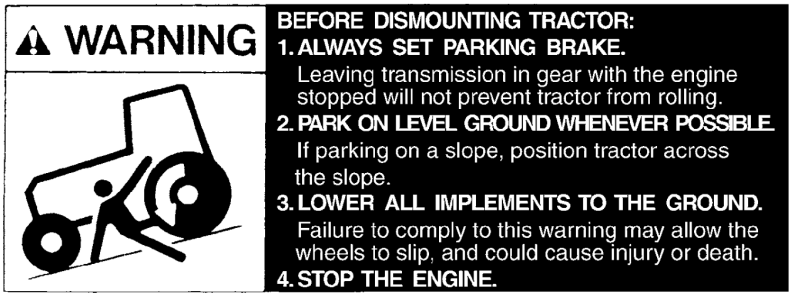
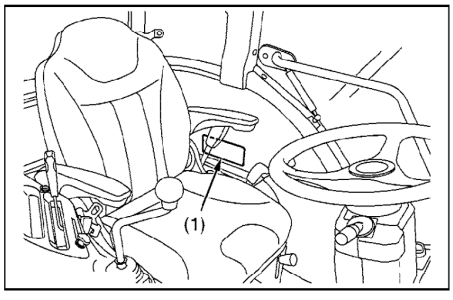
(1) Part No. TD170-4933-1 [HST type]





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 replaced component.
5. Mount new danger, warning and caution labels by applying on a clean dry surface and pressing any bubbles to outside edge.

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SPECIFICATIONS

[Manual Transmission Model]

Model			L3240
			4WD
Engine	Model		D1703-M-E2-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*		23.9 kW (32.5 HP)
	PTO power* (factory observe)		19.8 kW (26.9 HP)* / 2700 min^{-1} (rpm)
	Maximum torque		101.7 N·m (10.4 kgf·m, 75.0 lbf·ft)
	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		44 L (11.6 U.S.gals, 9.68 Imp.gals)
	Engine crankcase (with filter)		5.7 L (6.0 U.S.qts, 5.0 Imp.qts)
	Engine coolant		6.0 L (6.3 U.S.qts, 5.3 Imp.qts)
	Transmission case		42 L (11.1 U.S.gals, 9.24 Imp.gals)
Dimensions	Overall length (without 3P)		3120 mm (119.3 in.)
	Overall width (min. tread)		1520 mm (59.8 in.)
	Overall height (with ROPS)		2460 mm (97.0 in.)
	Wheel base		1805 mm (71.3 in.)
	Min. ground clearance		350 mm (14.0 in.)
	Tread	Front	1150 mm (59.4 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)			1475 kg (3155 lbs)
Travelling system	Standard tire size	Front	7-16
		Rear	12.4-24
	Clutch		Dry type single stage
	Steering		Hydrostatic power steering
	Transmission		8 forward and reverse fully synchronized main and shuttle transmission
	Braking system		Wet disk type
	Min. turning radius (with brake)		2.7 m (8.5 feet)
Hydraulic unit	Hydraulic control system		Position control
	Pump capacity		31.5 L (8.3 U.S.gals, 6.9 Imp.gals) / min.
	Three point hitch		SAE Category 1
	Max. lift force	At lift points	1700 kg (3750 lbs)
		24 in. behind lift points	1200 kg (2650 lbs)
	System pressure		17.7 MPa (180 kgf/cm^2, 2560 psi)
PTO	Rear PTO		SAE 1-3/8, 6 splines
	PTO / Engine speed		540 min^{-1} (rpm) / 2550 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)

Note : * Manufacture's estimate

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

W10281170

[HST Model]

Model			L3240	L3540	L4240	L5240	L5740
			4WD				
Engine	Model		D1703-M-E2-HST	D1803-M-E2-HST	V2203-M-E2-HST	V2403-M-TE2-HST	
	Type		Indirect injection vertical, water-cooled, 4-cycle diesel				
	Number of cylinders		3		4		
	Total displacement		1.647 L (100.5 cu.in.)	1.826 L (111.4 cu.in.)	2.197 L (134.0 cu.in.)	2.434 L (148.5 cu.in.)	
	Bore and stroke		87 × 92.4 mm (3.4 × 3.6 in.)	87 × 102.4 mm (3.4 × 4.0 in.)	83 × 92.4 mm (3.3 × 3.6 in.)	87 × 102.4 mm (3.4 × 4.0 in.)	
	Net power*		23.9 kW (32.0 HP)	26.1 kW (35.0 HP)	31.3 kW (42.0 HP)	38.8 kW (52.0 HP)	42.5 kW (57.0 HP)
	PTO power* (factory observe)		18.7 kW (25.4 HP)* / 2700 min^{-1} (rpm)	20.9 kW (28.4 HP)* / 2700 min^{-1} (rpm)	26.1 kW (35.5 HP) / 2700 min^{-1} (rpm)	33.6 kW (45.7 HP) / 2600 min^{-1} (rpm)	37.3 kW (50.7 HP) / 2700 min^{-1} (rpm)
	Maximum torque		101.7 N·m (10.4 kgf·m, 75.0 lbf·ft)	112.8 N·m (11.5 kgf·m, 83.2 lbf·ft)	139.7 N·m (14.2 kgf·m, 103.0 lbf·ft)	180.6 N·m (18.4 kgf·m, 13.8 lbf·ft)	
	Battery capacity		12 V, RC : 123 min, CCA : 490 A	12 V, RC : 133 min, CCA : 582 A			
	Fuel		Diesel fuel No. 1 [below –10 °C (14 °F], Diesel fuel No. 2-D [above –10 °C (14 °F)]				
Capa-cities	Fuel tank		44 L (11.6 U.S.gals, 9.68 Imp.gals)		50 L (13.2 U.S.gals, 11.0 Imp.gals)	54 L (14.3U.S.gals, 11.9 Imp.gals)	
	Engine crankcase (with filter)		5.7 L (6.0 U.S.qts, 5.0 Imp.qts)	6.7 L (7.1 U.S.qts, 5.9 Imp.qts)	8.2L (8.7 U.S.qts, 7.2 Imp.qts)	9.4 L (9.9 U.S.qts, 8.3 Imp.qts)	
	Engine coolant		6.0 L (6.3 U.S.qts, 5.3 Imp.qts)	7.5 L (7.9 U.S.qts, 6.6 Imp.qts)		8.2L (8.7 U.S.qts, 7.2 Imp.qts)	
	Transmission case		42 L (11.1 U.S.gals, 9.24 Imp.gals)		43 L (11.4U.S.gals, 9.46 Imp.gals)	45 L (11.9 U.S.gals, 9.90 Imp.gals)	
Dimensions	Overall length (without 3P)		3120 mm (122.8 in.)		3285 mm(129.3 in.)	3410 mm (134.3 in.)	
	Overall width (min. tread)		1520 mm (59.8 in.)		1665 mm (65.55 in.)	1570 mm (61.81 in.)	
	Overall height (with ROPS)		2460 mm (96.85 in.)		2480 mm (97.64 in.)	2565 mm (101.0 in.)	
	Wheel base		1805 mm (71.1 in.)		1895 mm (74.6 in.)	1915 mm (75.4 in.)	
	Min. ground clearance		350 mm (13.8 in.)		375 mm (14.8 in.)	400 mm (15.7 in.)	
	Tread	Front	1150 mm (45.28 in.)		1145 mm (45.08 in.)	1340 mm (52.8 in.)	
		Rear	1200 mm (47.2 in.), 1300 mm (51.2 in.), 1385 mm (54.5 in.), 1480 mm (58.3 in.)		1285 mm (50.6 in.), 1435 mm (56.5 in.), 1530 mm (60.2 in.)	1225 mm (48.23 in.), 1325 mm (52.2 in.), 1425 mm (56.10 in.), 1525 mm (60.04 in.)	
Weight (with ROPS)			1540 kg (3395 lbs)		1665 kg (3671 lbs)	1745 kg (3847 lbs)	
Travelling system	Standard tire size	Front	7-16		8-16	9.5-16	
		Rear	12.4-24		14.9-24	13.6-28	
	Clutch		Dry type single stage				
	Steering		Hydrostatic power steering				
	Transmission		Hydrostatic transmission (3 speeds)				
	Braking system		Wet disk type				
	Min. turning radius (with brake)		2.7 m (8.9 feet)			2.8 m (9.2 feet)	

Note : * Manufacture's estimate

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

W10409930

[HST Model] (Continued)

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

W10521990

[HST Model with CABIN]

Model			L4240	L5240	L5740
			4WD		
Engine	Model		V2203-M-E2-HST	V2403-M-TE2-HST	
	Type		Indirect injection vertical, water-cooled, 4-cycle diesel		
	Number of cylinders		4		
	Total displacement		2.197 L (134.0 cu.in.)	2.434 L (148.5 cu.in.)	
	Bore and stroke		83 × 92.4 mm (3.3 × 3.6 in.)	87 × 102.4 mm (3.4 × 4.0 in.)	
	Net power*		31.3 kW (42.0 HP)	38.8 kW (52.0 HP)	42.5 kW (57.0 HP)
	PTO power* (factory observe)		26.1 kW (35.0 HP) / 2700 min^{-1} (rpm)	33.6 kW (45.0 HP) / 2600 min^{-1} (rpm)	37.3 kW (50.0 HP) / 2700 min^{-1} (rpm)
	Maximum torque		139.7 N·m (14.3 kgf·m, 103.0 lbf·ft)	180.6 N·m (18.42 kgf·m, 13.8 lbf·ft)	
	Battery capacity		12 V, RC : 133 min, CCA : 582 A		
	Fuel		Diesel fuel No. 1 [below –10 °C (14 °F], Diesel fuel No. 2-D [above –10 °C (14 °F)]		
Capa-cities	Fuel tank		50 L (13.2 U.S.gals, 11.0 Imp.gals)	54 L (14.3U.S.gals, 11.9 Imp.gals)	
	Engine crankcase (with filter)		8.2 L (8.7 U.S.qts, 7.2 Imp.qts)	9.4 L (9.9 U.S.qts, 8.3 Imp.qts)	
	Engine coolant		7.5 L (7.9 U.S.qts, 6.6 Imp.qts)	8.2 L (8.7 U.S.qts, 7.2 Imp.qts)	
	Transmission case		43 L (11.4U.S.gals, 9.46 Imp.gals)	45 L (11.9 U.S.gals, 9.90 Imp.gals)	
Dimensions	Overall length (without 3P)		3285 mm (129.3 in.)	3410 mm (134.3 in.)	
	Overall width (min. tread)		1665 mm (65.55 in.)	1570 mm (61.81 in.)	
	Overall height (with CABIN)		2295 mm (90.35 in.)	2405 mm (94.7 in.)	
	Wheel base		1895 mm (74.6 in.)	1915 mm (75.4 in.)	
	Min. ground clearance		375 mm (14.8 in.)	400 mm (15.7 in.)	
	Tread	Front	1145 mm (45.08 in.)	1340 mm (52.8 in.)	
		Rear	1285 mm (50.6 in.), 1435 mm (56.5 in.), 1530 mm (60.2 in.)	1225 mm (48.23 in.), 1325 mm (52.2 in.), 1425 mm (56.10 in.), 1525 mm (60.04 in.)	
Weight (with CABIN)			1815 kg (4001 lbs)	1920 kg (4233 lbs)	
Travelling system	Standard tire size	Front	8-16	9.5-16	
		Rear	14.9-24	13.6-28	
	Clutch		Dry type single stage		
	Steering		Hydrostatic power steering		
	Transmission		Hydrostatic transmission (3 speeds)		
	Braking system		Wet disk type		
	Min. turning radius (with brake)		2.7 m (8.9 feet)	2.8 m (9.2 feet)	

Note : * Manufacture's estimate

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

W10507360

[HST Model with CABIN] (Continued)

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

W10545110

TRAVELLING SPEEDS

[Manual Transmission Model]

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

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

W1035065

[HST Model]

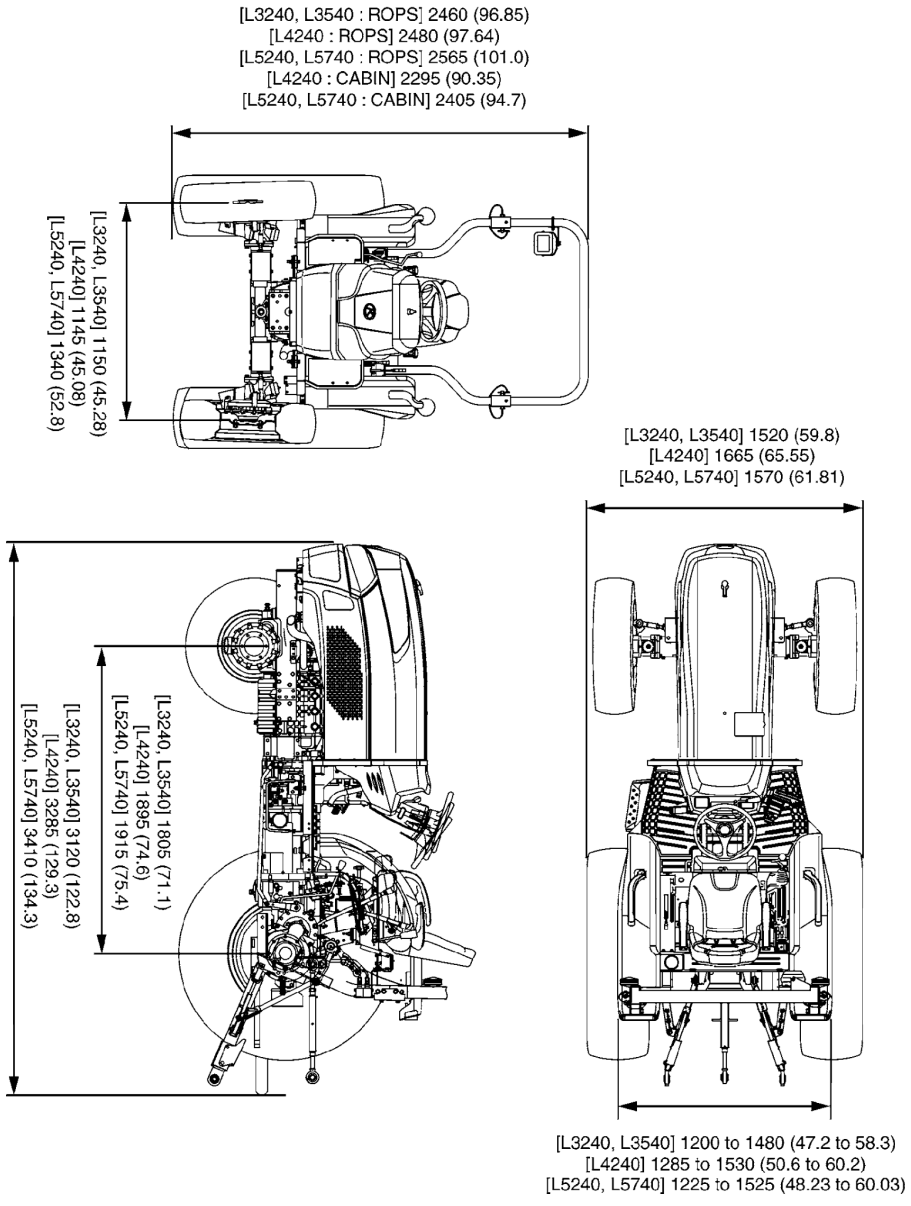
Model			L3240 L3540	L4240	L5240	L5740
Tire size (Rear)			12.4-24	14.9-24	13.6-28	
Speed control pedal	H-DS lever	Range gear shift lever	km/h (mph)			
Forward	L	L	3.5 (2.2)	3.6 (2.2)	3.4 (2.1)	3.6 (2.2)
		M	7.1 (4.4)	7.3 (4.5)	7.0 (4.3)	7.3 (4.5)
		H	15.0 (9.32)	15.5 (9.63)	14.9 (9.3)	15.5 (9.6)
	H	L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

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

W1034865

DIMENSIONS

Unit : mm (in.)



3TLAAAGFP001C

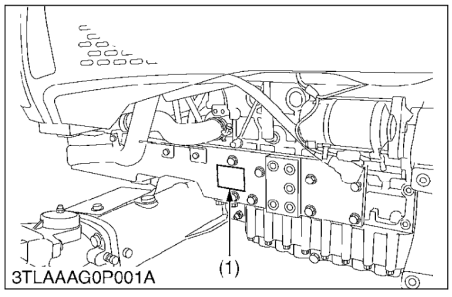
G GENERAL

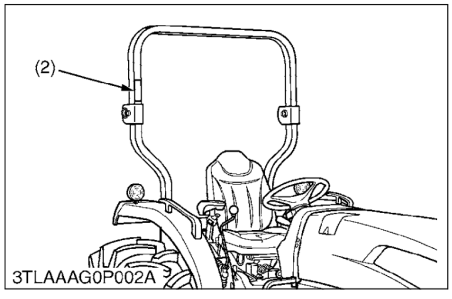
GENERAL

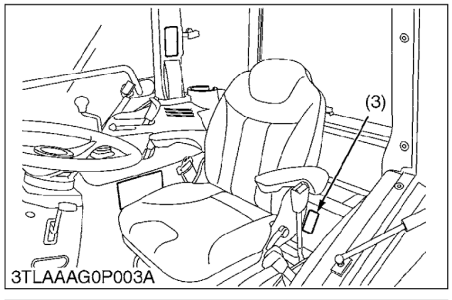
CONTENTS

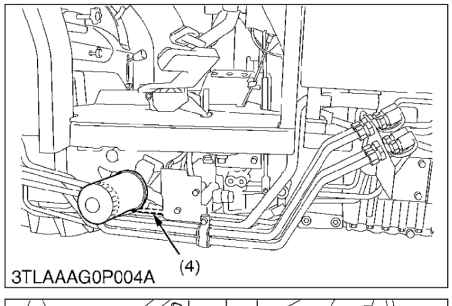
1. TRACTOR IDENTIFICATION

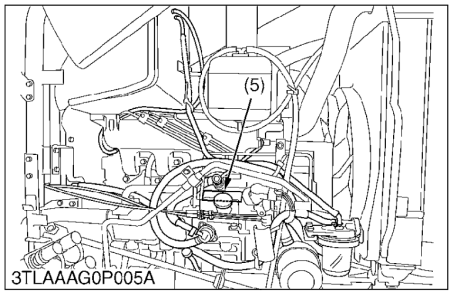
[1] MODEL NAME AND SERIAL NUMBERS









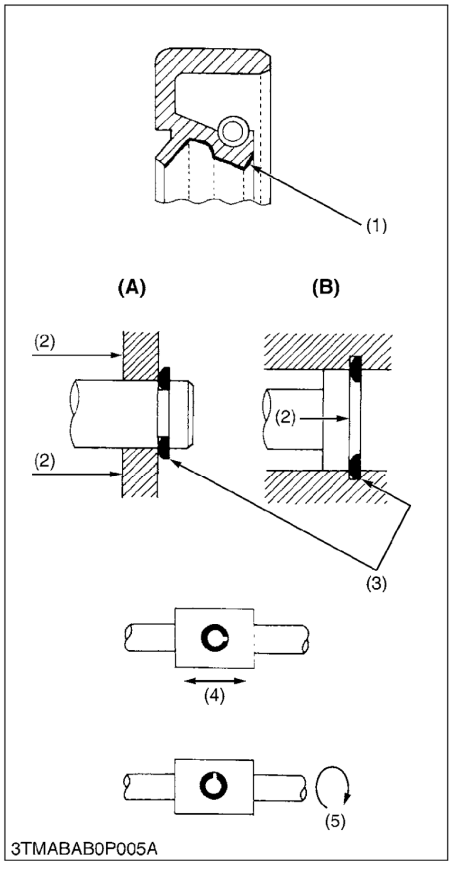


When contacting your local KUBOTA distributor, always specify engine serial number, tractor serial number and hour meter reading.

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

W10106000

2. GENERAL PRECAUTIONS



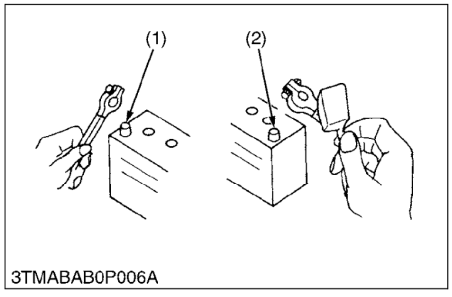
- During disassembly, carefully arrange removed parts in a clean area to prevent confusion later. Screws, bolts and nuts should be installed in their original position to prevent reassembly errors.
- When special tools are required, use KUBOTA genuine special tools. Special tools which are not frequently 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.

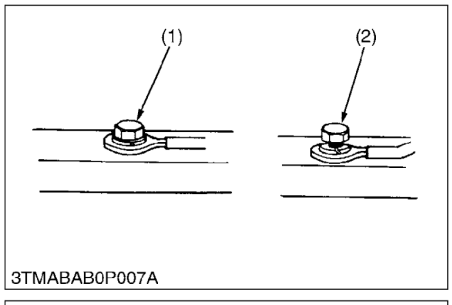
■ **IMPORTANT**

- **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

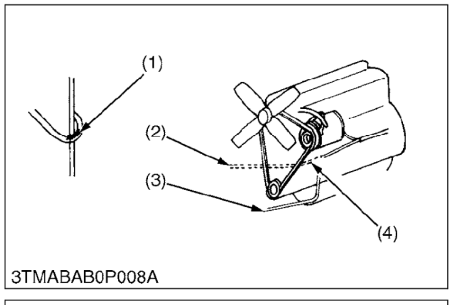


3TMABAB0P007A

- Securely tighten wiring terminals.

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

W10112160

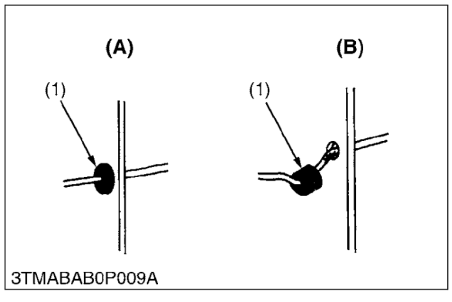


3TMABAB0P008A

- Do not let wiring contact dangerous part.

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

W10113130

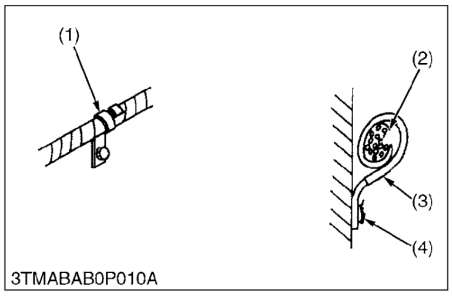


3TMABAB0P009A

- Securely insert grommet.

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

W10113880

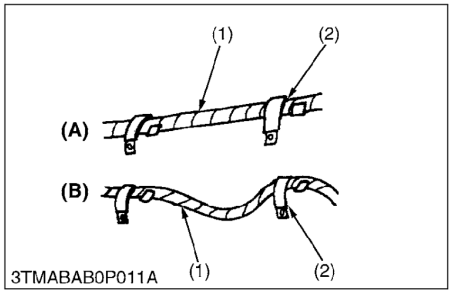


3TMABAB0P010A

- Securely clamp, being careful not to damage wiring.

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

W10114580

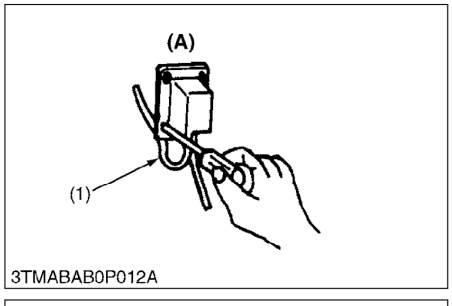


3TMABAB0P011A

- 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

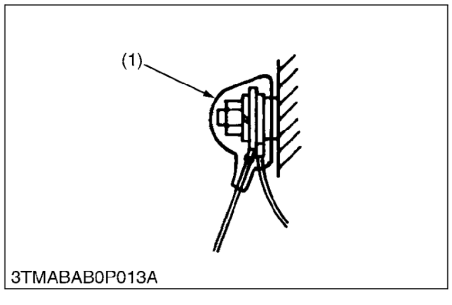


3TMABAB0P012A

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

(1) Wiring
(A) Incorrect

W10116700



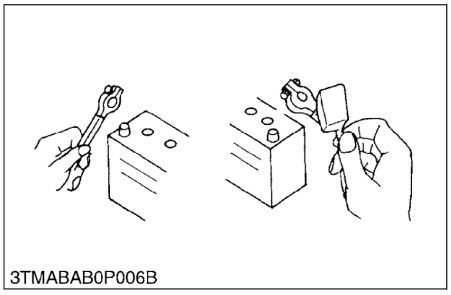
3TMABAB0P013A

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

(1) Cover
  • Securely Install Cover

W10117350

[2] BATTERY


3TMABAB0P006B

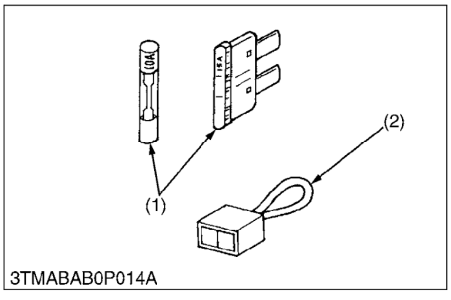
- Take care not to confuse positive and negative terminal posts.
- When removing battery cables, disconnect negative cable first. When installing battery cables, check for polarity and connect positive cable first.
- Do not install any battery with capacity other than is specified (Ah).
- After connecting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



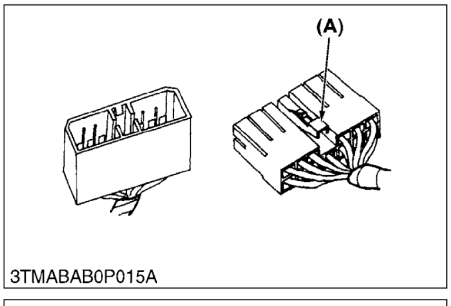
3TMABAB0P014A

- 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

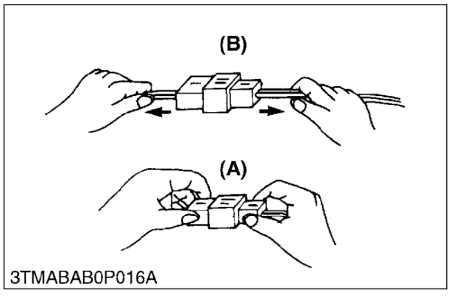


3TMABAB0P015A

- For connector with lock, push lock to separate.

(A) Push

W10122110

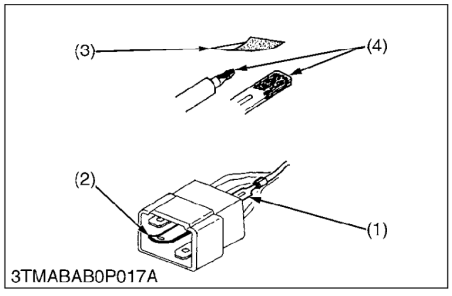


3TMABAB0P016A

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

(A) Correct **(B) Incorrect**

W10122720

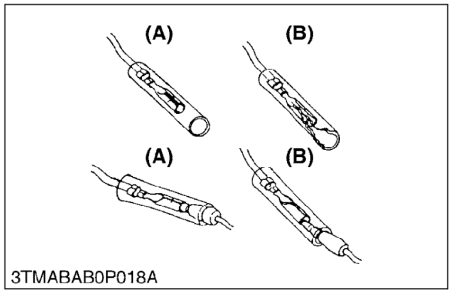


3TMABAB0P017A

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

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

W10123460

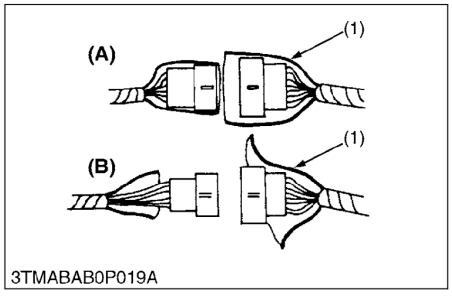


3TMABAB0P018A

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

(A) Correct
(B) Incorrect

W10124300



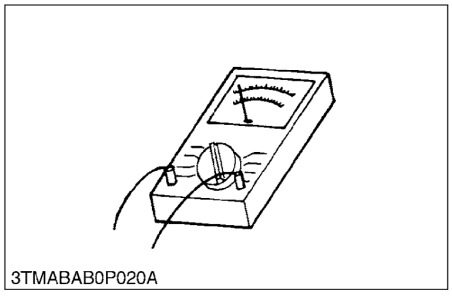
3TMABAB0P019A

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

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

W10125190

[5] HANDLING OF CIRCUIT TESTER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- Use tester correctly following manual provided with tester.
- Check for polarity and range.

W10126840

4. LUBRICANTS, FUEL AND COOLANT

No.	Place	Capacity			Lubricants, fuel and coolant
		L3240	L3540	L4240	
1	Fuel tank	44 L 11.6 U.S.gals 9.68 Imp.gals		50 L 13.2 U.S.gals 11.0 Imp.gals	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
	Recovery tank	1.0 L 1.1 U.S.qts 0.88 Imp.qts			
3	Engine crankcase (with filter)	5.7 L 6.0 U.S.qts 5.0 Imp.qts	6.7 L 7.1 U.S.qts 5.9 Imp.qts	8.2 L 8.7 U.S.qts 7.2 Imp.qts	Engine oil : API service classification CF or better Above 25 °C (77 °F) : SAE30, 10W-30 or 15W-40 0 to 25 °C (32 to 77 °F) : SAE20, 10W-30 or 15W-40 Below 0 °C (32 °F) : SAE10W, 10W-30 or 15W-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		9.0 L 9.5 U.S.qts 7.9 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 axle case support	–	2	Until grease overflows	Multipurpose type grease NLGI-2 or NLGI-1 (GC-LB)
	Front axle support (4WD)	2			
	Top link	2			
	Top link bracket	2 (with draft control) (if equipped)			
	Lift rod	1			
	Lift cylinder	4			
	Battery terminal	2		Moderate amount	
	Throttle cable	Oiling			Engine oil

■ **NOTE**

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

No.	Place	Capacity		Lubricants, fuel and coolant
		L5240	L5740	
1	Fuel tank	54 L 14.3 U.S.gals 11.9 Imp.gals		No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below −10 °C (14 °F)
2	Coolant	8.2 L 8.7 U.S.qts 7.2 Imp.qts		Fresh clean water with anti-freeze
	Recovery tank	1.0 L 1.1 U.S.qts 0.88 Imp.qts		
3	Engine crankcase (with filter)	9.4 L 9.9 U.S.qts 8.3 Imp.qts		Engine oil : API service classification CF or better Above 25 °C (77 °F) : SAE30, 10W-30 or 15W-40 0 to 25 °C (32 to 77 °F) : SAE20, 10W-30 or 15W-40 Below 0 °C (32 °F) : SAE10W, 10W-30 or 15W-40
4	Transmission case	45 L 11.9 U.S.gals 9.9 Imp.gals		KUBOTA UDT or SUPER UDT fluid*
5	Front axle case (4WD)	9.0 L 9.5 U.S.qts 7.9 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 axle case support	2	Until grease overflows	Multipurpose type grease NLGI-2 or NLGI-1 (GC-LB)
	Front axle support (4WD)	2		
	Top link	2		
	Top link bracket	2 (with draft control) (if equipped)		
	Lift rod	1		
	Lift cylinder	4		
	Battery terminal	2	Moderate amount	
	Throttle cable	Oiling		Engine oil

■ **NOTE**

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

■ **NOTE**

- **Engine Oil : Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperature as shown above.**
- **With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the CF, CD or CE lubricating oil with a high total base number. If the CF-4 or CG-4 lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals.**
- **Lubricating oil recommended when a low-sulfur or high-sulfur fuel is employed.**

Lubricating oil class	Fuel		Remarks
	Low sulfur (0.5 % ≥)	High sulfur	
CF	❍	❍	TBN ≥ 10
CF-4	❍	X	
CG-4	❍	X	

❍ : Recommendable X : Not recommendable

- **☆ : Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR (Exhaust Gas Re-circulation) type engines.**
- **The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this tractor.**
- **Transmission Oil : The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of KUBOTA UDT or SUPER UDT fluid for optimum protection and performance.**
  Do not mix different brands together.
- **Indicated capacities of water and oil are manufacture's estimate.**