

Product: 2011 Kubota WSM B3000 Tractor Service Repair Workshop Manual
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WSM

WORKSHOP MANUAL
TRACTOR

B3000

Kubota

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TO THE READER

This Workshop Manual tells the servicing personnel about the mechanism, servicing and maintenance of the B3000. It contains 4 parts: "**Information**", "**General**", "**Mechanism**" and "**Servicing**".

■ **Information**

This section primarily contains information below.

- Safety First
- Safety Decal
- Specification
- Dimension

■ **General**

This section primarily contains information below.

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

■ **Mechanism**

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

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

■ **Servicing**

This section primarily contains information below.

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

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

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

March, 2011

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I INFORMATION

INFORMATION

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1. SAFETY FIRST

SAFETY FIRST

- This symbol, the industry's "Safety Alert Symbol", is used throughout this manual and on labels on the machine itself to warn of the possibility of personal injury. Read these instructions carefully.
- It is essential that you read the instructions and safety regulations before you 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.

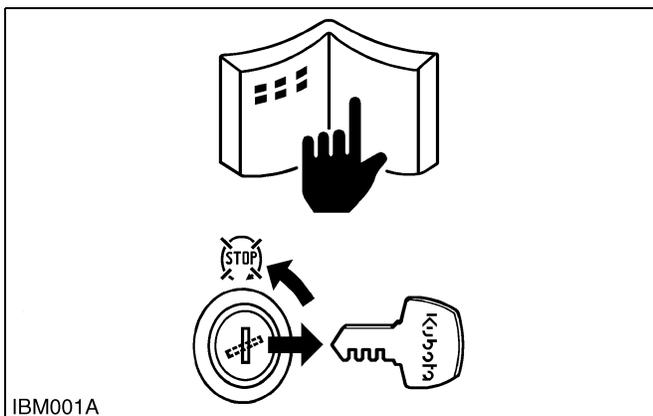
■ IMPORTANT

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

■ NOTE

- Gives helpful information.

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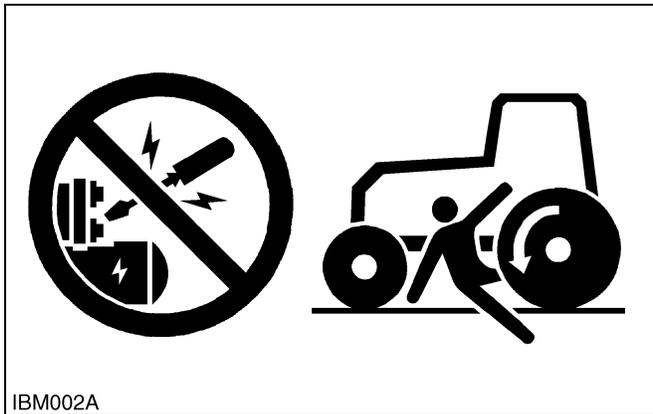


IBM001A

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.

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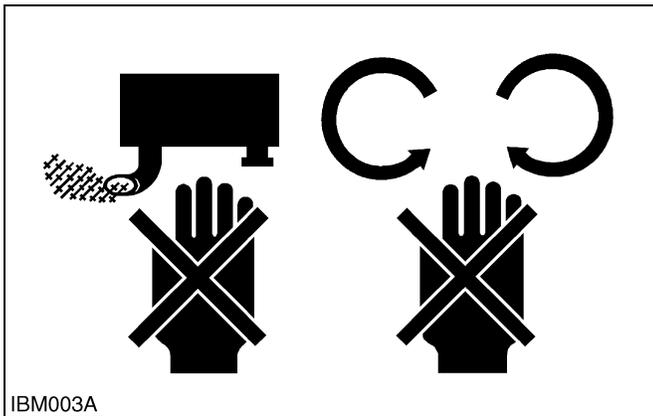


IBM002A

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.

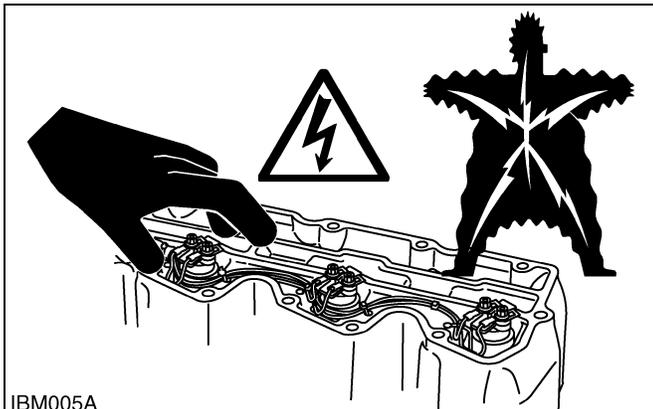
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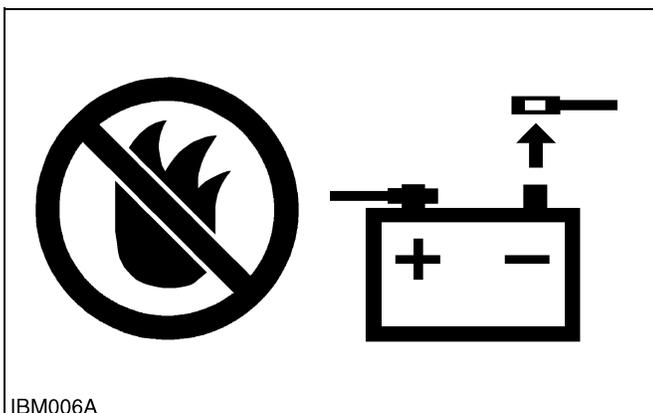
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IBM004A



IBM005A



IBM006A

OPERATE SAFELY

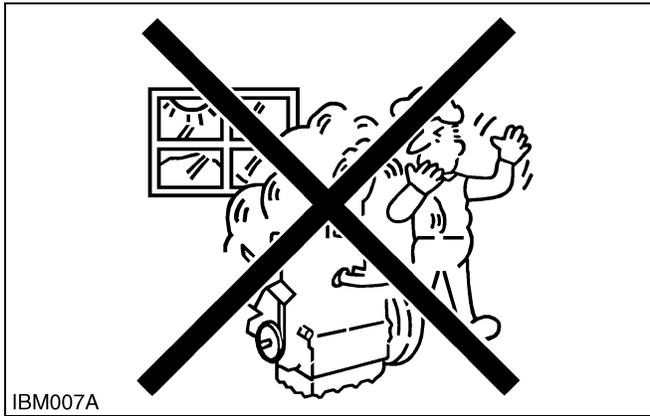
- Do not use the machine after you consume alcohol or medication or when you are tired.
- Put on applicable clothing and safety equipment.
- Use applicable tools only. Do not use alternative tools or parts.
- When 2 or more persons do servicing, make sure that you do it safely.
- Do not operate below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

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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.

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IBM007A

KEEP A GOOD AIRFLOW IN THE WORK AREA

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

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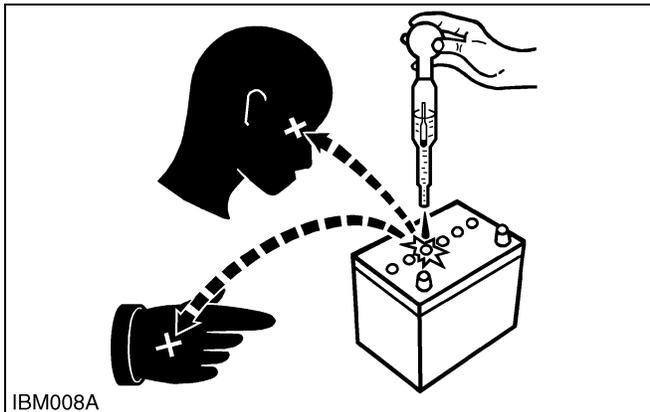


IBM009A

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.

WSM000001INI0007US1



IBM008A

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.

WSM000001INI0008US1



IBM010A

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.

WSM000001INI0009US1

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) Part No. 6C070-4742-2

⚠ CAUTION

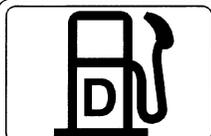
TO AVOID PERSONAL INJURY:

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.

1AGAEBMAP068E

(3) Part No. TC420-4956-1

Diesel fuel only



No fire



ULTRA LOW SULFUR DIESEL FUEL ONLY

1AGAIDHAP154E

(2) Part No. 6C150-4743-1



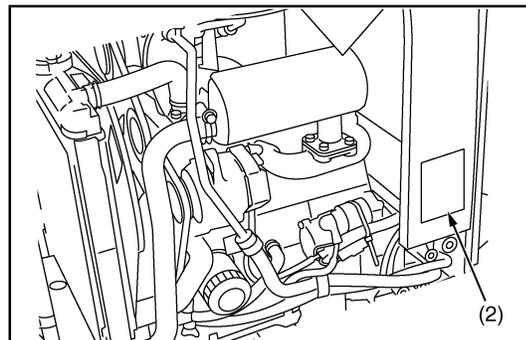
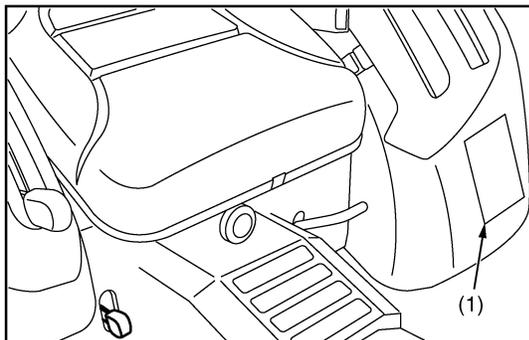
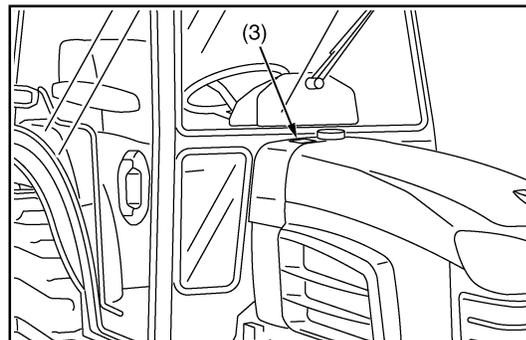

⚠ DANGER

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.

1AGAEBMAP074E



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9Y1210574INI0001US0

(1) Part No. 6C300-3012-1

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 55B24LS (51R-430) | |  FLAMMABLES |  SHIELD EYES |  KEEP OUT OF THE REACH OF CHILDREN |  CAUTIOUS OF SULFURIC ACID |  READ INSTRUCTION MANUAL CAREFULLY |  EXPLOSIVE | |
| HYDROMETER | | DANGER ·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 BATTERY | | | | | | | REPLACE BATTERY |
|  |  | | | | | | |  |
| DK 83324 | |  RECYCLE | | | | | | |

(2) Part No. 32751-4958-1

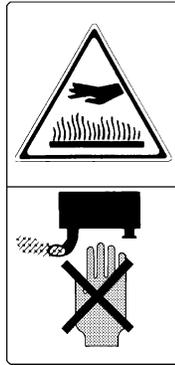
Do not get your hands close to engine fan and fan belt.



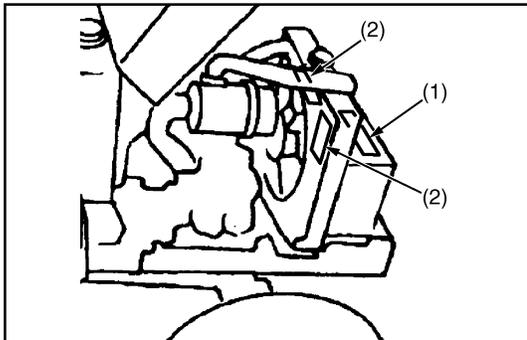
1AGAEBMAP073A

(3) Part No. TA040-4958-1

Do not touch hot surface like muffler, etc.



1AGAEBMAP078A



(1) Part No. 6C200-4751-1

CAUTION

**TO AVOID PERSONAL INJURY:
BEFORE STARTING THE ENGINE**

1. Make sure the parking brake is set.
2. Make sure the range gear shift lever (L-M-H) is in "NEUTRAL" position.
3. Make sure the cruise control lever is in "NEUTRAL" position (Far back position).

1AGAEBNAP004E

(2) 6C200-4959-1

WARNING

TO AVOID PERSONAL INJURY:

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



WARNING

TO AVOID PERSONAL INJURY:

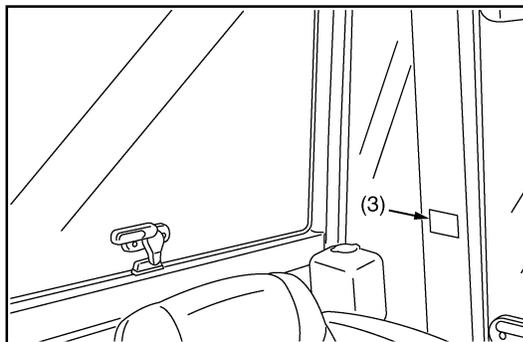
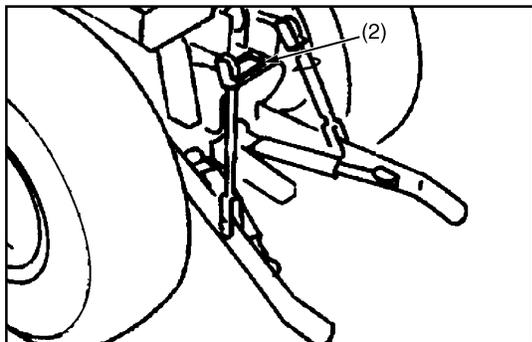
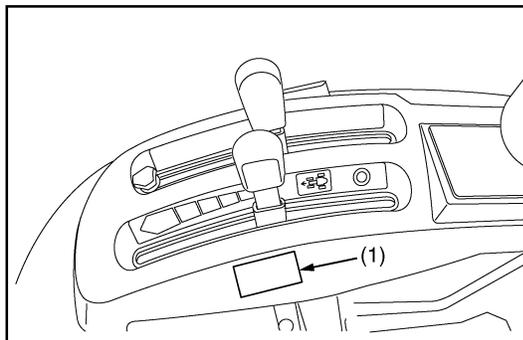
1. Keep PTO shield in place at all times.
2. Do not operate the PTO at speeds faster than the speed recommended by the implement manufacturer.
3. For trailing PTO-driven implements, set drawbar at towing position. (see operator's manual)

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

WARNING

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

1AGAIHFAP069A



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(1) Part No. TA040-4902-1

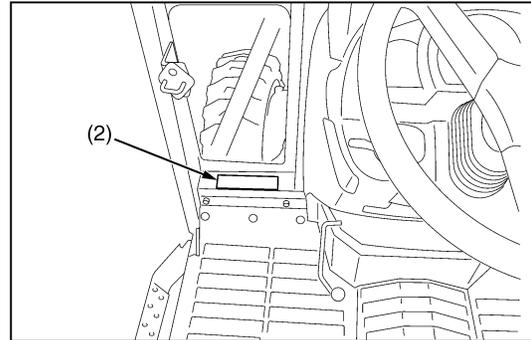
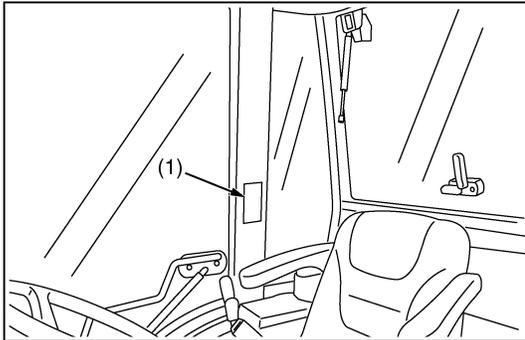


1AGAMAOAP0780

(2) Part No. 6C230-4743-1



1AGAMAOAP0790

**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.

9Y1210574ICI004US

9Y1210574INI0004US0

3. SPECIFICATIONS

| Model | | B3000HSDC | | B3000HSDCC | |
|--------------------|----------------------------------|--|---|----------------------|---------------|
| PTO power | | 17.1 kW (23.0 HP)* | | | |
| Engine | Maker | KUBOTA | | | |
| | Model | V1505-E3-D21-Q | | | |
| | Type | E-TVCS, water-cooled, 4-cycle diesel | | | |
| | Number of cylinders | 4 | | | |
| | Bore and stroke | 78 × 78.4 mm (3.1 × 3.1 in.) | | | |
| | Total displacement | 1498 cm ³ (91.5 cu.in.) | | | |
| | Engine gross power | 22.3 kW (30.0 HP)* | | | |
| | Rated revolution | 2600 min ⁻¹ (rpm) | | | |
| | Maximum torque | 98.7 N·m (72.7 lbf·ft) | | | |
| | Battery | 12 V, RC : 80 min, CCA : 430 A | | | |
| | Starting system | Electric starting with cell starter 12 V, 1.4 kW | | | |
| | Lubricating system | Forced lubrication by trochoidal pump | | | |
| | Cooling system | Pressurized radiator, forced circulation with water pump | | | |
| | Fuel | Diesel fuel No. 2-D [above -10 °C (14 °F)], Diesel fuel No. 1 [below -10 °C (14 °F)] | | | |
| Capacities | Fuel tank | 31 L (8.1 U.S.gals, 6.8 Imp.gals) | | | |
| | Engine crankcase (with filter) | 4.1 L (4.3 U.S.qts, 3.6 Imp.qts) | | | |
| | Engine coolant | 5.2 L (5.5 U.S.qts, 4.6 Imp.qts) | | | |
| | Transmission case | 15 L (4.0 U.S.gals, 3.3 Imp.gals) | | | |
| | Front axle case | 4.7 L (5.0 U.S.qts, 4.1 Imp.qts) | | | |
| | Tires | Front | Farm : 7 - 12 | Turf : 24 × 8.5 - 14 | Farm : 7 - 12 |
| | Rear | 12.4 - 16 | 13.6 - 16 | 12.4 - 16 | 13.6 - 16 |
| Dimensions | Overall length (without 3P) | 2640 mm (103.9 in.) | | | |
| | Overall width | 1365 mm (53.7 in.) | | | |
| | Overall height (with ROPS) | 2150 mm (84.6 in.) | | | |
| | Wheel base | 1666 mm (65.6 in.) | | | |
| | Minimum ground clearance | 370 mm (14.6 in.) | | | |
| | Tread | Front | 935 mm (36.8 in.) | | Rear |
| Weight (with ROPS) | 1030 kg (2271 lbs) | | | | |
| Travelling system | Clutch | N/A | | | |
| | Steering | Hydrostatic power steering | | | |
| | Transmission | Main-hydrostatic transmission, 3 range gear shift (3 forward and 3 reverse) | | | |
| | Brake | Wet disk type | | | |
| | Min. turning radius (with brake) | 2.1 m (6.9 feet) | | | |
| | Differential | Bevel gear | | | |
| Hydraulic system | Hydraulic control system | Quarter inching | | Position control | |
| | Pump capacity | 3P : 19.7 L/min (7.5 gals/min) Power steering : 14.8 L/min (5.6 gals/min) | | | |
| | Three point hitch | SAE Category 1 | | | |
| | Max. lift force | At lift points | 970 kg (2139 lbs) | | |
| | 24 in. behind lift points | 760 kg (1676 lbs) | | | |
| PTO system | Rear | Front | SAE 1-3/8, 6 splines | | |
| | | Rear | 1 speed (540 min ⁻¹ (rpm) at 2592 engine min ⁻¹ (rpm)) | | |
| | Mid | Front | U.S.A. No.5 (KUBOTA 10-tooth) involute spline | | |
| | | Rear | 1 speed (2500 min ⁻¹ (rpm) at 2600 engine min ⁻¹ (rpm)) | | |

■ **NOTE**

- * **Manufacture's estimate**

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

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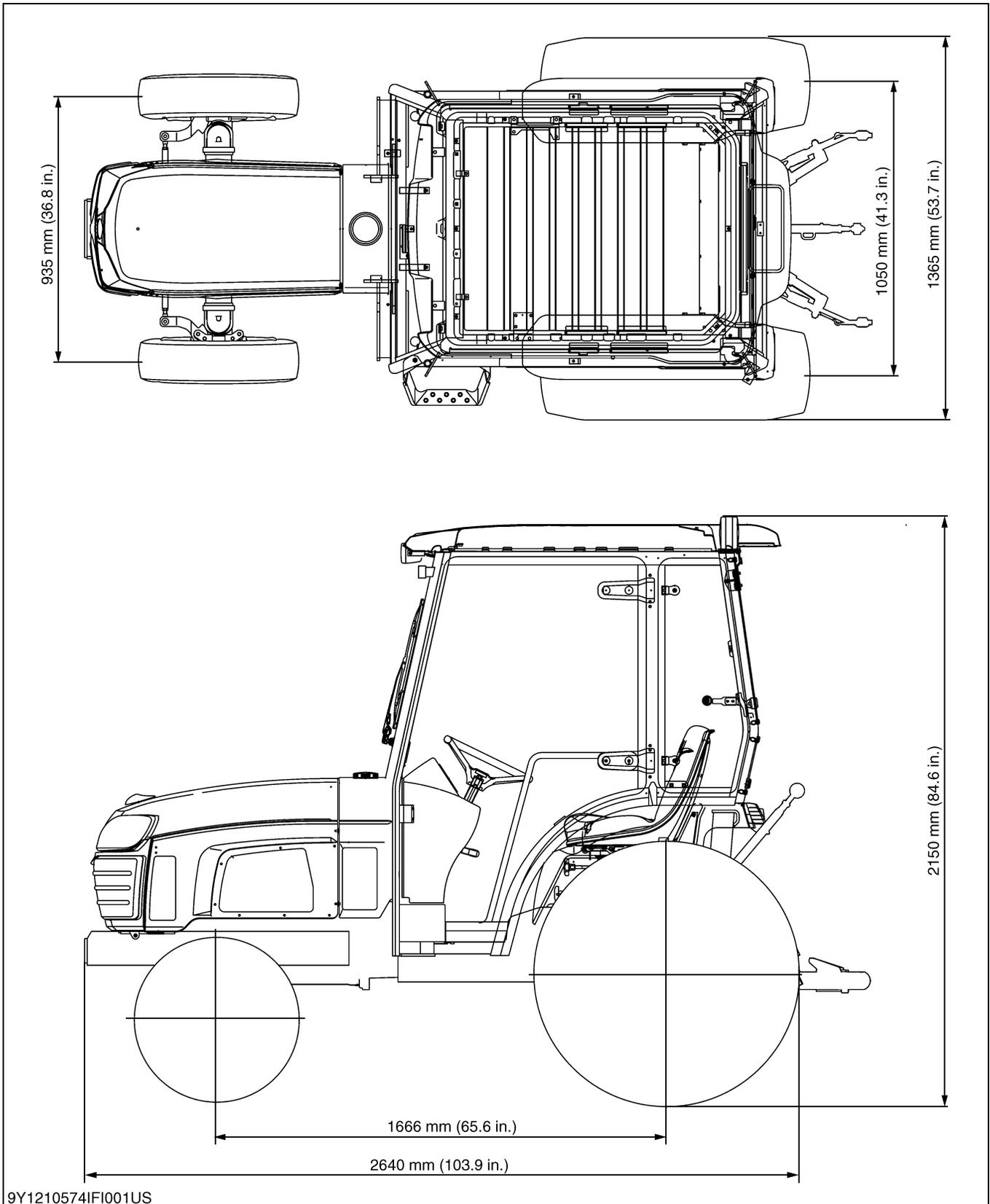
4. TRAVELING SPEEDS

| Model | | B3000 | | | |
|------------------|------------------------|----------------|-----------|----------------|-----------|
| Tire Size (Rear) | | 12.4 - 16 Farm | | 13.6 - 16 Turf | |
| | Range gear shift lever | km/h | mph | km/h | mph |
| Forward | Low | 0 to 5.0 | 0 to 3.1 | 0 to 5.2 | 0 to 3.2 |
| | Middle | 0 to 9.4 | 0 to 5.8 | 0 to 9.6 | 0 to 6.0 |
| | High | 0 to 19.5 | 0 to 12.1 | 0 to 20.0 | 0 to 12.4 |
| Reverse | Low | 0 to 4.0 | 0 to 2.5 | 0 to 4.1 | 0 to 2.6 |
| | Middle | 0 to 7.4 | 0 to 4.6 | 0 to 7.6 | 0 to 4.7 |
| | High | 0 to 15.5 | 0 to 9.6 | 0 to 15.9 | 0 to 9.9 |

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

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5. DIMENSIONS



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G GENERAL

GENERAL

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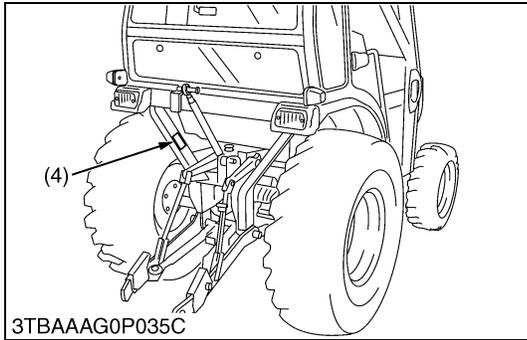
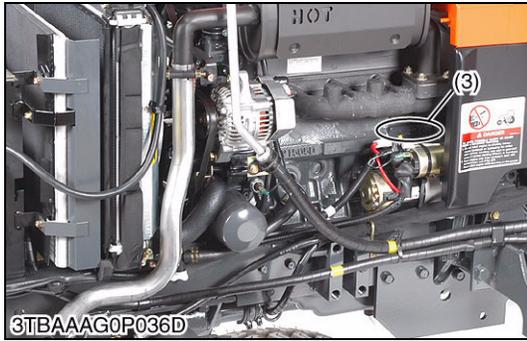
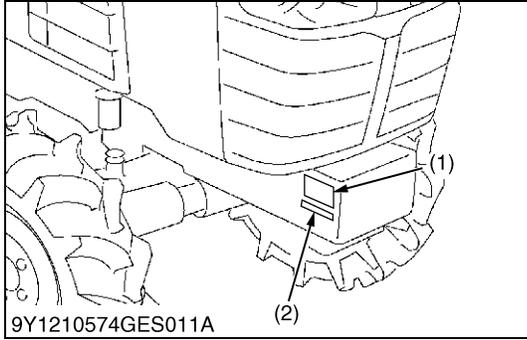
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1. TRACTOR IDENTIFICATION

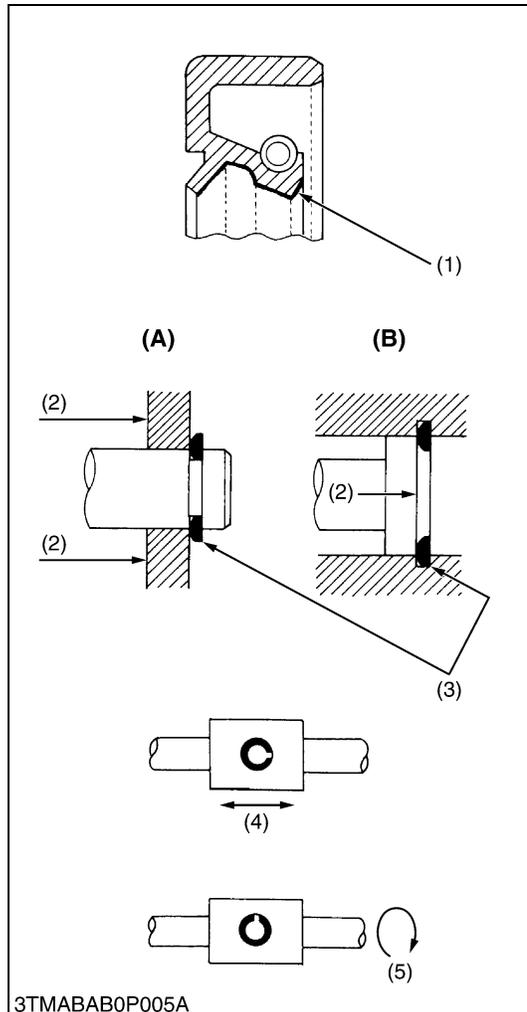
When contacting your local KUBOTA distributor, always specify engine serial number, tractor serial number and hour meter reading.

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

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2. GENERAL PRECAUTIONS



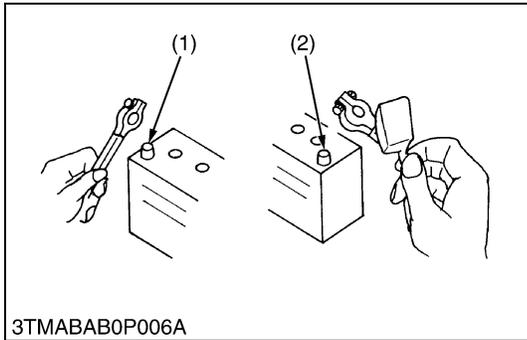
- When you disassemble, carefully put the parts in a clean area to make it easy to find the parts. You must install the screws, bolts and nuts in their initial position to prevent the reassembly errors.
- When it is necessary to use special tools, use KUBOTA special tools. Refer to the drawings when 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 only 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 left side.
- To prevent damage to the hydraulic system, use only specified fluid or equivalent.
- Clean the parts before you measure them.
- Tighten the nipples to the specified torque. Too much torque can cause damage to the hydraulic units or the nipples. 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 nipples, clean the joint and apply the maximum operation pressure 2 to 3 times to examine oil leakage.

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

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

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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.

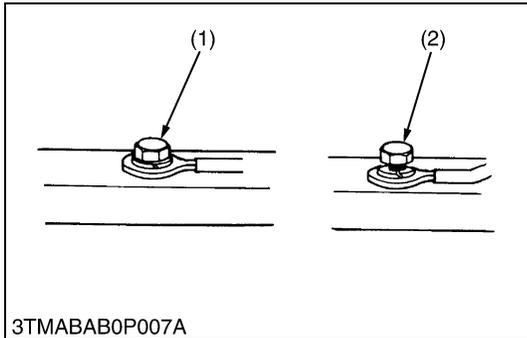
■ IMPORTANT

- 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

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[1] WIRING

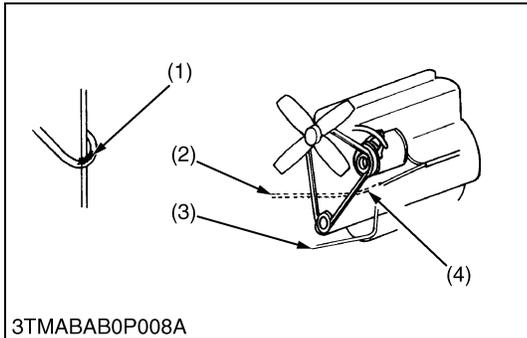


3TMABAB0P007A

- Securely tighten wiring terminals.

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

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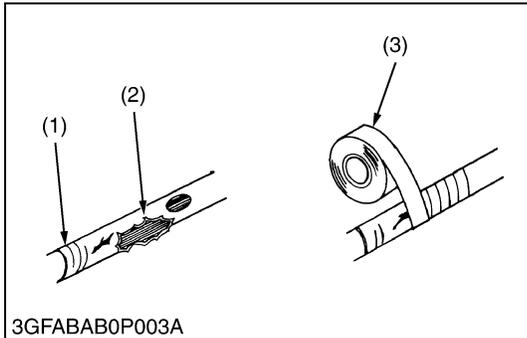


3TMABAB0P008A

- Do not let wiring contact dangerous part.

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

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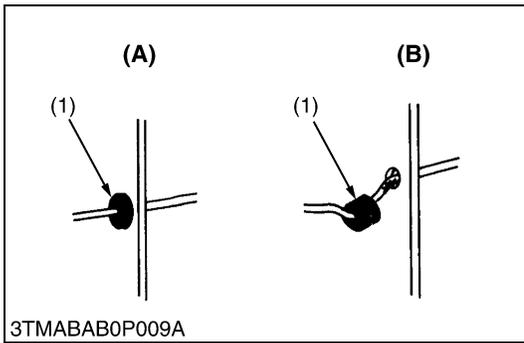


3GFABAB0P003A

- Repair or change torn or aged wiring immediately.

- (1) Aged (2) Torn (3) Insulating Vinyl Tape

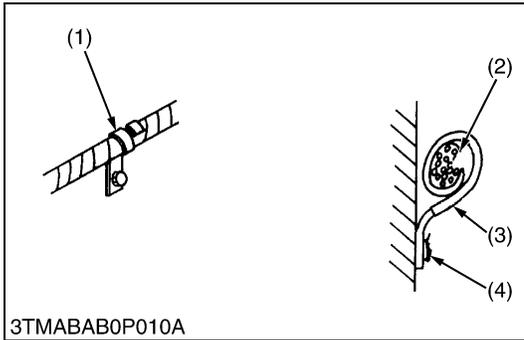
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• Securely insert grommet.

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

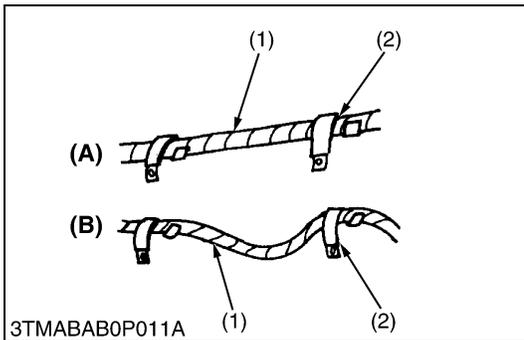
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• Securely clamp, being careful not to damage wiring.

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

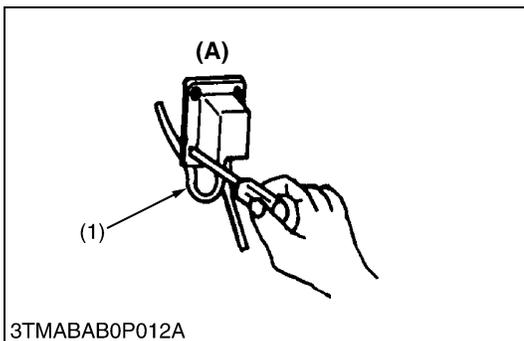
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• Clamp wiring so that there is no twist, unnecessary sag, or excessive tension, except for movable part, where sag be required.

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

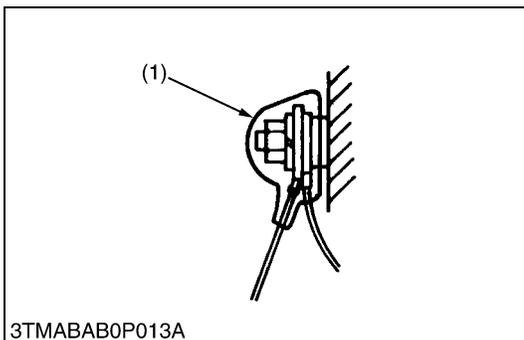
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• In installing a part, take care not to get wiring caught by it.

- (1) Wiring
- (A) **Incorrect**

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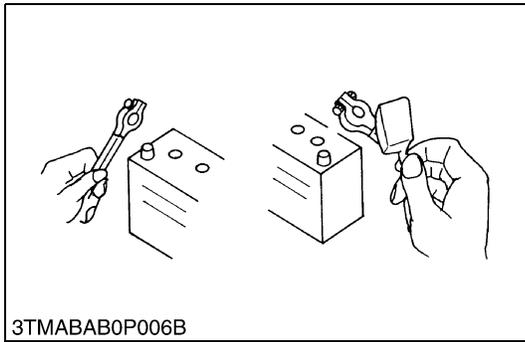


• After installing wiring, check protection of terminals and clamped condition of wiring, only connect battery.

- (1) Cover (Securely Install Cover)

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[2] BATTERY



3TMABAB0P006B

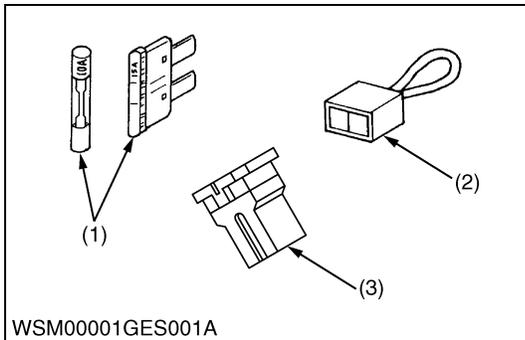
- Take care not to confuse positive and negative terminal posts.
- When removing battery cables, disconnect negative cable first. When installing battery cables, check for polarity and connect positive cable first.
- Do not install any battery with capacity other than is specified (Ah).
- After connecting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

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[3] FUSE



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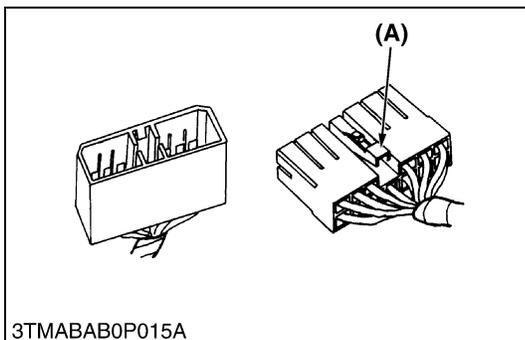
- Use fuses with specified capacity. Neither too large or small capacity fuse is acceptable.
- Never use steel or copper wire in place of fuse.
- Do not install working light, radio set, etc. on machine which is not provided with reserve power supply.
- Do not install accessories if fuse capacity of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

(1) Fuse
(2) Fusible Link

(3) Slow Blow Fuse

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[4] CONNECTOR

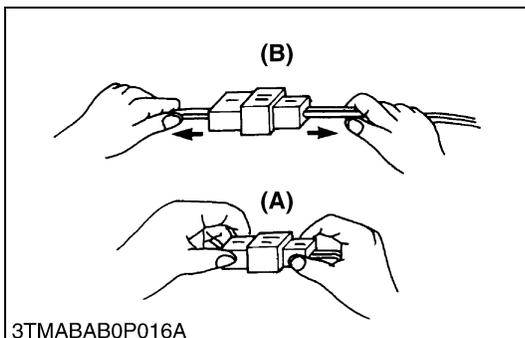


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- For connector with lock, push lock to separate.

(A) Push

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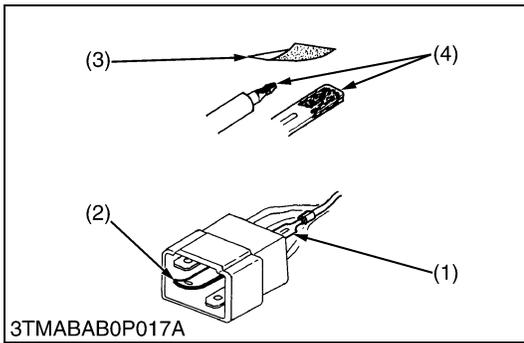
3TMABAB0P016A

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

(A) Correct

(B) Incorrect

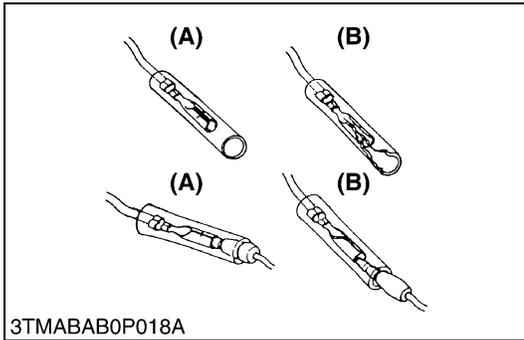
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- Use sandpaper to remove rust from terminals.
- Repair deformed terminal. Make certain there is no terminal being exposed or displaced.

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

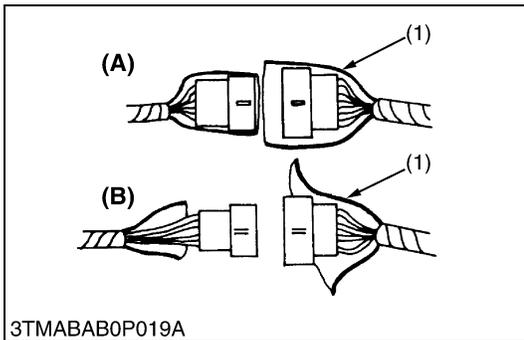
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- Make certain that there is no female connector being too open.

- (A) Correct
- (B) Incorrect

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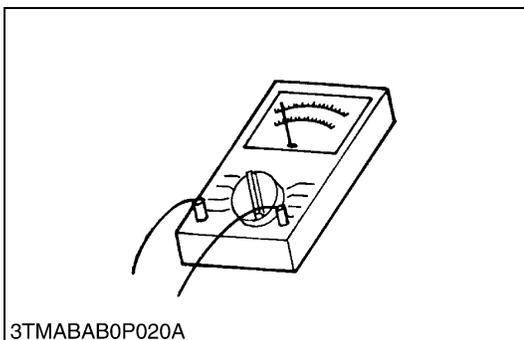


- Make certain plastic cover is large enough to cover whole connector.

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

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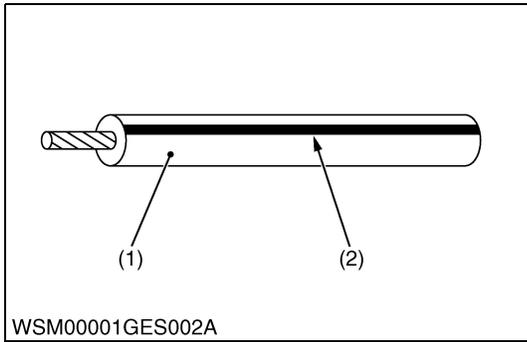
[5] HANDLING OF CIRCUIT TESTER



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

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[6] COLOR OF WIRING



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

(An example)

Red stripe on white color : W/R

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

(1) Wire Color

(2) Stripe

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4. LUBRICANTS, FUEL AND COOLANT

| No. | Place | Capacity | Lubricants, fuel and coolant |
|-----|-----------------------------------|---------------------------------------|---|
| | | B3000 | |
| 1 | Fuel tank | 31 L 8.1 U.S.gals 6.8 Imp.gals | <ul style="list-style-type: none"> No. 2-D S15 diesel fuel No. 1-D S15 diesel fuel if temperature is below -10°C (14°F) |
| 2 | Coolant (with recovery tank) | 5.2 L 5.5 U.S.qts 4.6 Imp.qts | Fresh clean water with anti-freeze |
| 3 | Engine crankcase (with filter) | 4.1 L 4.3 U.S.qts 3.6 Imp.qts | Engine oil Refer to next page <ul style="list-style-type: none"> Below 0°C (32°F) SAE10W, SAE10W-30 or 15W-40 0 to 25°C (32 to 77°F) SAE20, SAE10W-30 or 15W-40 Above 25°C (77°F) SAE30, 10W-30 or 15W-40 |
| 4 | Transmission case | 15 L 4.0 U.S.gals 3.3 Imp.gals | KUBOTA UDT fluid or SUPER UDT fluid* |
| 5 | Front axle case | 4.7 L 5.0 U.S.qts 4.1 Imp.qts | KUBOTA UDT, SUPER UDT fluid* or SAE 80-90 gear oil |
| 6 | Washer liquid tank | 1.5 L 0.40 U.S.qts 0.33 Imp.qts | Automobile washer liquid |

Greasing

| No. | Place | No. of greasing point | Capacity | Type of grease |
|-----|---------------------|-----------------------|------------------------|--|
| 7 | Top link | 1 | Until grease overflows | Multipurpose grease NLGI-2 or NLGI-1 (GC-LB) |
| | Lift rod [RH] | 1 | | |
| | Speed control pedal | 1 | | |
| | Battery terminals | 2 | Moderate amount | |

■ NOTE

- * KUBOTA original transmission hydraulic fluid.

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■ 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 temperatures as shown above:
- Refer to the following table for the suitable API classification engine oil according to the engine type (with internal EGR, external EGR or non-EGR) and the fuel.

| Fuel used | Engine oil classification (API classification) | |
|--|--|---|
| | Oil class of engines except external EGR | Oil class of engines with external EGR |
| Ultra Low Sulfur Fuel [<0.0015% (15 ppm)] | CF, CF-4, CG-4, CH-4 or CI-4 | CF or CI-4 (Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR type engines) |

EGR : Exhaust Gas Re-circulation

- The **CJ-4** engine oil is intended for **DPF (Diesel Particulate Filter)** type engines, and cannot be used on this tractor.

| | except external EGR | with external EGR |
|-------|---------------------|-------------------|
| Model | B3000 | — |

Fuel

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below $-20\text{ }^{\circ}\text{C}$ ($-4\text{ }^{\circ}\text{F}$) or elevations above 1500 m (5000 ft).
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)

Transmission oil

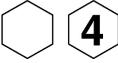
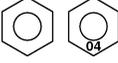
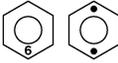
- The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of KUBOTA UDT or SUPER UDT fluid for optimum protection and performance.
(Consult your local KUBOTA Dealer for further detail.)
Do not mix different brands together.
- Indicated capacities of water and oil are manufacturer's estimate.

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5. TIGHTENING TORQUES

[1] GENERAL USE SCREWS, BOLTS AND NUTS

Screws, bolts and nuts whose tightening torques are not specified in this Workshop Manual should be tightened according to the table below.

| Indication on top of bolt |  4 No-grade or 4T | | | | | |  7 7T | | | | | |  9 9T | | |
|---------------------------|--|------------|------------|-----------|------------|-----------|--|------------|------------|-----------|------------|-----------|--|------------|------------|
| Indication on top of nut |  No-grade or 4T | | | | | | | | | | | |  6T | | |
| Material of opponent part | Ordinariness | | | Aluminum | | | Ordinariness | | | Aluminum | | | Ordinariness | | |
| Unit | N·m | kgf·m | lbf·ft | N·m | kgf·m | lbf·ft | N·m | kgf·m | lbf·ft | N·m | kgf·m | lbf·ft | N·m | kgf·m | lbf·ft |
| M6 | 7.9 | 0.80 | 5.8 | 7.9 | 0.80 | 5.8 | 9.81 | 1.00 | 7.24 | 7.9 | 0.80 | 5.8 | 12.3 | 1.25 | 9.05 |
| | to 9.3 | to 0.95 | to 6.8 | to 8.8 | to 0.90 | to 6.5 | to 11.2 | to 1.15 | to 8.31 | to 8.8 | to 0.90 | to 6.5 | to 14.2 | to 1.45 | to 10.4 |
| M8 | 18 | 1.8 | 13 | 17 | 1.7 | 13 | 24 | 2.4 | 18 | 18 | 1.8 | 13 | 30 | 3.0 | 22 |
| | to 20 | to 2.1 | to 15 | to 19 | to 2.0 | to 14 | to 27 | to 2.8 | to 20 | to 20 | to 2.1 | to 15 | to 34 | to 3.5 | to 25 |
| M10 | 40 | 4.0 | 29 | 32 | 3.2 | 24 | 48 | 4.9 | 36 | 40 | 4.0 | 29 | 61 | 6.2 | 45 |
| | to 45 | to 4.6 | to 33 | to 34 | to 3.5 | to 25 | to 55 | to 5.7 | to 41 | to 44 | to 4.5 | to 32 | to 70 | to 7.2 | to 52 |
| M12 | 63 | 6.4 | 47 | – | – | – | 78 | 7.9 | 58 | 63 | 6.4 | 47 | 103 | 10.5 | 76.0 |
| | to 72 | to 7.4 | to 53 | – | – | – | to 90 | to 9.2 | to 66 | to 72 | to 7.4 | to 53 | to 117 | to 12.0 | to 86.7 |
| M14 | 108 | 11.0 | 79.6 | – | – | – | 124 | 12.6 | 91.2 | – | – | – | 167 | 17.0 | 123 |
| | to 125 | to 12.8 | to 92.5 | – | – | – | to 147 | to 15.0 | to 108 | – | – | – | to 196 | to 20.0 | to 144 |
| M16 | 167 | 17.0 | 123 | – | – | – | 197 | 20.0 | 145 | – | – | – | 260 | 26.5 | 192 |
| | to 191 | to 19.5 | to 141 | – | – | – | to 225 | to 23.0 | to 166 | – | – | – | to 304 | to 31.0 | to 224 |
| M18 | 246 | 25.0 | 181 | – | – | – | 275 | 28.0 | 203 | – | – | – | 344 | 35.0 | 254 |
| | to 284 | to 29.0 | to 209 | – | – | – | to 318 | to 32.5 | to 235 | – | – | – | to 402 | to 41.0 | to 296 |
| M20 | 334 | 34.0 | 246 | – | – | – | 368 | 37.5 | 272 | – | – | – | 491 | 50.0 | 362 |
| | to 392 | to 40.0 | to 289 | – | – | – | to 431 | to 44.0 | to 318 | – | – | – | to 568 | to 58.0 | to 419 |

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[2] STUD BOLTS

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

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[3] HYDRAULIC FITTINGS

(1) Hydraulic Hose Fittings

| Hose size | Thread side | Tightening torque | | |
|-----------|-------------|-------------------|--------------|--------------|
| | | N·m | kgf·m | lbf·ft |
| 02 | 1/8 | 13.8 to 15.6 | 1.40 to 1.60 | 10.2 to 11.5 |
| 03 | 1/4 | 22.6 to 27.4 | 2.30 to 2.80 | 16.7 to 20.2 |
| 04 | | | | |
| 05 | 3/8 | 45.2 to 52.9 | 4.60 to 5.40 | 33.3 to 39.0 |
| 06 | | | | |

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(2) Hydraulic Pipe Cap Nuts

| Pipe size | Tightening torque | | |
|------------|-------------------|--------------|--------------|
| | N·m | kgf·m | lbf·ft |
| φ4 × t1.0 | 19.7 to 29.4 | 2.00 to 3.00 | 14.5 to 21.6 |
| φ6 × t1.0 | 24.6 to 34.3 | 2.50 to 3.50 | 18.1 to 25.3 |
| φ8 × t1.0 | 29.5 to 39.2 | 3.00 to 4.00 | 21.7 to 28.9 |
| φ10 × t1.0 | 39.3 to 49.0 | 4.00 to 5.00 | 29.0 to 36.1 |
| φ12 × t1.5 | 49.1 to 68.6 | 5.00 to 7.00 | 36.2 to 50.6 |
| φ15 × t1.6 | 108 to 117 | 11.0 to 12.0 | 79.6 to 86.7 |
| φ18 × t1.6 | 108 to 117 | 11.0 to 12.0 | 79.6 to 86.7 |

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(3) Adaptors, Elbows and Others

| Item | Thread side | Tightening torque | | |
|---|-------------|-------------------|--------------|--------------|
| | | N·m | kgf·m | lbf·ft |
| POA-PF (Nipple with O-ring) | PF 1/8 | 45 to 53 | 4.5 to 5.5 | 33 to 39 |
| | PF 1/4 | 74 to 83 | 7.5 to 8.5 | 55 to 61 |
| | PF 3/8 | 93.2 to 102 | 9.50 to 10.5 | 68.8 to 75.9 |
| | PF 1/2 | 113 to 122 | 11.5 to 12.5 | 83.2 to 90.4 |
| POB-PF (Elbow with O-ring and no nut) | PF 1/8 | 23 to 26 | 2.3 to 2.7 | 17 to 19 |
| | PF 1/4 | 36 to 43 | 3.6 to 4.4 | 26 to 31 |
| | PF 3/8 | 54 to 63 | 5.5 to 6.5 | 40 to 47 |
| | PF 1/2 | 73 to 83 | 7.4 to 8.5 | 54 to 61 |
| Adaptor (NPT) | PF 1/8 | 9.8 to 14 | 1.0 to 1.5 | 7.3 to 10 |
| | PF 1/4 | 30 to 34 | 3.0 to 3.5 | 22 to 25 |
| | PF 3/8 | 49 to 68 | 5.0 to 7.0 | 37 to 50 |
| | PF 1/2 | 69 to 88 | 7.0 to 9.0 | 51 to 65 |

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[4] METRIC SCREWS, BOLTS AND NUTS

| Grade | 8.8 Property class 8.8 | | | 10.9 Property class 10.9 | | | |
|------------|------------------------|------------|--------------|--------------------------|------------|--------------|--------------|
| | Unit | N-m | kgf-m | lbf-ft | N-m | kgf-m | lbf-ft |
| M8 | | 24 to 27 | 2.4 to 2.8 | 18 to 20 | 30 to 34 | 3.0 to 3.5 | 22 to 25 |
| M10 | | 48 to 55 | 4.9 to 5.7 | 36 to 41 | 61 to 70 | 6.2 to 7.2 | 45 to 52 |
| M12 | | 78 to 90 | 7.9 to 9.2 | 58 to 66 | 103 to 117 | 10.5 to 12.0 | 76.0 to 86.7 |
| M14 | | 124 to 147 | 12.6 to 15.0 | 91.2 to 108 | 167 to 196 | 17.0 to 20.0 | 123 to 144 |
| M16 | | 197 to 225 | 20.0 to 23.0 | 145 to 166 | 260 to 304 | 26.5 to 31.0 | 192 to 224 |

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[5] AMERICAN STANDARD SCREWS, BOLTS AND NUTS WITH UNC OR UNF THREADS

| Grade | SAE GR.5 | | | SAE GR.8 | | | |
|-------------|----------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Unit | N-m | kgf-m | lbf-ft | N-m | kgf-m | lbf-ft |
| 1/4 | | 11.7 to 15.7 | 1.20 to 1.60 | 8.63 to 11.5 | 16.3 to 19.7 | 1.67 to 2.00 | 12.0 to 14.6 |
| 5/16 | | 23.1 to 27.7 | 2.36 to 2.82 | 17.0 to 20.5 | 33 to 39 | 3.4 to 3.9 | 25 to 28 |
| 3/8 | | 48 to 56 | 4.9 to 5.7 | 36 to 41 | 61 to 73 | 6.3 to 7.4 | 45 to 53 |
| 1/2 | | 110 to 130 | 11.3 to 13.2 | 81.2 to 95.8 | 150 to 178 | 15.3 to 18.1 | 111 to 131 |
| 9/16 | | 150 to 178 | 15.3 to 18.1 | 111 to 131 | 217 to 260 | 22.2 to 26.5 | 160 to 191 |
| 5/8 | | 204 to 244 | 20.8 to 24.8 | 151 to 179 | 299 to 357 | 30.5 to 36.4 | 221 to 263 |

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[6] PLUGS

| Shape | Size | Material of opponent part | | | | | |
|--|-------------|---------------------------|--------------|--------------|----------|------------|-----------|
| | | Ordinariness | | | Aluminum | | |
| | | N-m | kgf-m | lbf-ft | N-m | kgf-m | lbf-ft |
| Tapered screw  | R1/8 | 13 to 21 | 1.3 to 2.2 | 9.4 to 15 | 13 to 19 | 1.3 to 2.0 | 9.4 to 14 |
| | R1/4 | 25 to 44 | 2.5 to 4.5 | 18 to 32 | 25 to 34 | 2.5 to 3.5 | 18 to 25 |
| | R3/8 | 49 to 88 | 5.0 to 9.0 | 37 to 65 | 49 to 58 | 5.0 to 6.0 | 37 to 43 |
| | R1/2 | 58.9 to 107 | 6.00 to 11.0 | 43.4 to 79.5 | 59 to 78 | 6.0 to 8.0 | 44 to 57 |
| Straight screw  | G1/4 | 25 to 34 | 2.5 to 3.5 | 18 to 25 | – | – | – |
| | G3/8 | 62 to 82 | 6.3 to 8.4 | 46 to 60 | – | – | – |
| | G1/2 | 49 to 88 | 5.0 to 9.0 | 37 to 65 | – | – | – |

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6. MAINTENANCE CHECK LIST

| No. | Item | | Indication on hour meter | | | | | | | | | | | | | Interval | Reference page | Important | | |
|-----|---|---------|--------------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|----------------|-----------|----|-----|
| | | | Daily | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | | | | | 650 |
| 1 | Clogging of air conditioner condenser screen | Clean | ☆ | | | | | | | | | | | | | | Daily | G-17 | | |
| 2 | Engine oil | Change | | ★ | ☆ | | ☆ | | ☆ | | ☆ | | ☆ | | ☆ | | every 100 Hr | G-24 | | |
| 3 | Engine oil filter | Replace | | ★ | | | ☆ | | | | ☆ | | | | ☆ | | every 200 Hr | G-28 | | |
| 4 | Transmission oil filter | Replace | | ★ | | | | | ☆ | | | | | | ☆ | | every 300 Hr | G-31 | | |
| 5 | Transmission fluid | Change | | ★ | | | | | ☆ | | | | | | ☆ | | every 300 Hr | G-31 | | |
| 6 | Front axle case oil | Change | | | | | | | ☆ | | | | | | ☆ | | every 300 Hr | G-31 | | |
| 7 | Front axle pivot | Adjust | | | | | | | | | ☆ | | | | | | every 400 Hr | G-31 | | |
| 8 | Engine start system | Check | | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | every 50 Hr | G-22 | | |
| 9 | Greasing | - | | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | every 50 Hr | G-23 | | |
| 10 | Wheel bolt torque | Check | | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | ☆ | every 50 Hr | G-23 | | |
| 11 | Battery condition | Check | | | ☆ | | ☆ | | ☆ | | ☆ | | ☆ | | ☆ | | every 100 Hr | G-24 | *3 | |
| 12 | Air cleaner element [Double element type] Primary element | Clean | | | ☆ | | ☆ | | ☆ | | ☆ | | ☆ | | ☆ | | every 100 Hr | G-26 | *1 | @ |
| | | Replace | | | | | | | | | | | | | | | every 1 year | G-33 | *2 | |
| | Air cleaner element [Double element type] Secondary element | Replace | | | | | | | | | | | | | | | every 1 year | G-33 | | |
| 13 | Fuel filter element | Check | | | ☆ | | ☆ | | ☆ | | ☆ | | ☆ | | ☆ | | every 100 Hr | G-26 | | @ |
| | | Replace | | | | | | | | | ☆ | | | | | | every 400 Hr | G-32 | | |
| 14 | Fan belt | Adjust | | | ☆ | | ☆ | | ☆ | | ☆ | | ☆ | | ☆ | | every 100 Hr | G-27 | | |
| 15 | Brake | Adjust | | | ☆ | | ☆ | | ☆ | | ☆ | | ☆ | | ☆ | | every 100 Hr | G-27 | | |
| 16 | Radiator hose and clamp | Check | | | | | ☆ | | | | ☆ | | | | ☆ | | every 200 Hr | G-28 | | |
| | | Replace | | | | | | | | | | | | | | | every 2 year | G-34 | | |

Product: 2011 Kubota WSM B3000 Tractor Service Repair Workshop Manual

Full Download: <https://www.arepairmanual.com/downloads/2011-kubota-wsm-b3000-tractor-service-repair-workshop-manual/>

| No. | Item | | Indication on hour meter | | | | | | | | | | | | | Interval | Reference page | |
|-----|--|---------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|---------------------|----------------|--|
| | | | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | | | |
| 17 | Fuel line | Check | | ☆ | | ☆ | | ☆ | | ☆ | | ☆ | | ☆ | every 100 Hr | G-27 | @ | |
| | | Replace | | | | | | | | | | | | | every 2 year | G-34 | | |
| 18 | Intake air line | Check | | | | ☆ | | | | ☆ | | | | ☆ | every 200 Hr | G-28 | @ | |
| | | Replace | | | | | | | | | | | | | every 2 year | G-34 | | |
| 19 | Toe-in | Adjust | | | | ☆ | | | | ☆ | | | | ☆ | every 200 Hr | G-29 | | |
| 20 | Tension of a air conditioner drive belt | Adjust | | | | ☆ | | | | ☆ | | | | ☆ | every 200 Hr | G-29 | | |
| 21 | Clogging of inner air filter | Clean | | | | ☆ | | | | ☆ | | | | ☆ | every 200 Hr | G-29 | | |
| 22 | Clogging of fresh air filter | Clean | | | | ☆ | | | | ☆ | | | | ☆ | every 200 Hr | G-30 | | |
| 23 | Clogging of air conditioner condenser | Check | | | | ☆ | | | | ☆ | | | | ☆ | every 200 Hr | G-30 | | |
| 24 | Engine valve clearance | Adjust | | | | | | | | | | | | | every 800 Hr | G-32 | | |
| 25 | Air conditioner pipes and hoses | Check | | | | | | | | | | | | | every 1 year | G-33 | | |
| | | Replace | | | | | | | | | | | | | every 2 year | G-34 | | |
| 26 | CAB isolation cushion | Check | | | | | | | | | | | | | every 2 year | G-34 | | |
| 27 | Fuel injection nozzle injection pressure | Check | | | | | | | | | | | | | every 1500 Hr | G-32 | @ | |
| 28 | Injection pump | Check | | | | | | | | | | | | | every 3000 Hr | G-32 | @ | |
| 29 | Cooling system | Flush | | | | | | | | | | | | | every 2 year | G-35 | | |
| 30 | Coolant | Change | | | | | | | | | | | | | every 2 year | G-35 | | |
| 31 | Fuel system | Bleed | | | | | | | | | | | | | | Service as required | G-37 | |
| 32 | Clutch housing water | Drain | | | | | | | | | | | | | | | G-38 | |
| 33 | Fuse | Replace | | | | | | | | | | | | | | | G-39 | |
| 34 | Light bulb | Replace | | | | | | | | | | | | | | | G-40 | |
| 35 | Washer liquid | Check | | | | | | | | | | | | | | | G-38 | |
| 36 | Amount of refrigerant (gas) | Check | | | | | | | | | | | | | | | G-41 | |

■ IMPORTANT

- The jobs indicated by ☆ must be done after the first 50 hours of operation.
- *1 : Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
*2 : Every year or every 6 times of cleaning.
*3 : When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
Please see the Warranty Statement in detail.

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Sample of manual. Download All 433 pages at:

<https://www.arepairmanual.com/downloads/2011-kubota-wsm-b3000-tractor-service-repair-workshop-manual/>