

Product: 2014 Kubota GZD15 Service Manual

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# WSM

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## WORKSHOP MANUAL

# GZD15

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# Kubota

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KISC issued 12, 2014 A

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## TO THE READER

This Workshop Manual has been prepared to provide servicing personnel with information on the mechanism, service and maintenance of GZD15. It is divided into two parts, "Mechanism" and "Servicing" for each section.

### ■ Mechanism

Information on the features and new mechanisms are described. This information should be understood before proceeding with troubleshooting, disassembling and servicing.

### ■ Servicing

The heading "General" includes general precautions, check and maintenance and special tools. Other section, there are troubleshooting, 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.

December 2003

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**Record of Revisions**

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

Last digit of the Code No.	Issue month	Main Revised Point and Corrective Measures {Search word}	Reference Page
2	2014.09	Add the GZD15-2 and GZD15-3.	ENGINE and ELETTRICAL section.

## ⚠ 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**

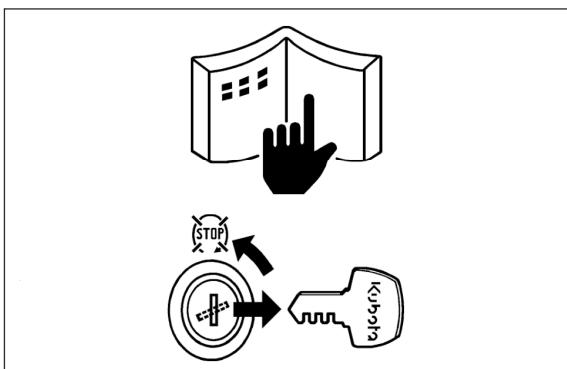
: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

**IMPORTANT**

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

**NOTE**

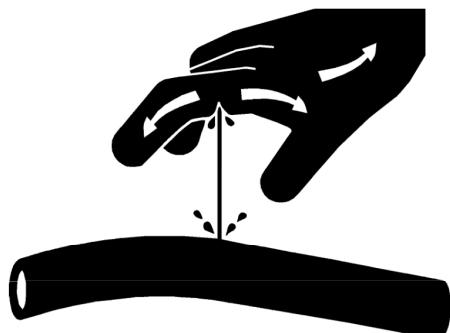
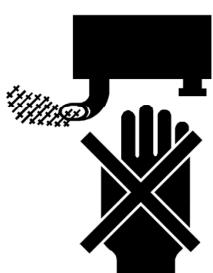
: Gives helpful information.

**BEFORE SERVICING AND REPAIRING**

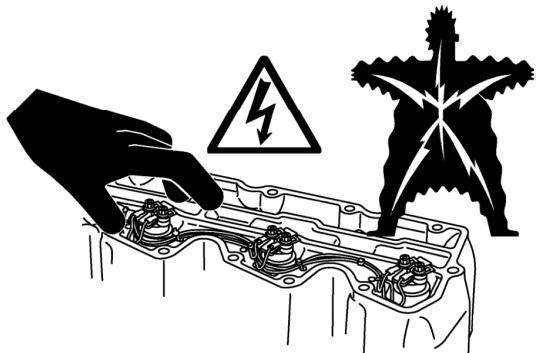
- Read all instructions and safety instructions in this manual and on your machine safety decals.
- Clean the work area and machine.
- Park the machine on a firm and level ground, and set the parking brake.
- Lower the implement to the ground.
- Stop the engine, and remove the key.
- Disconnect the battery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

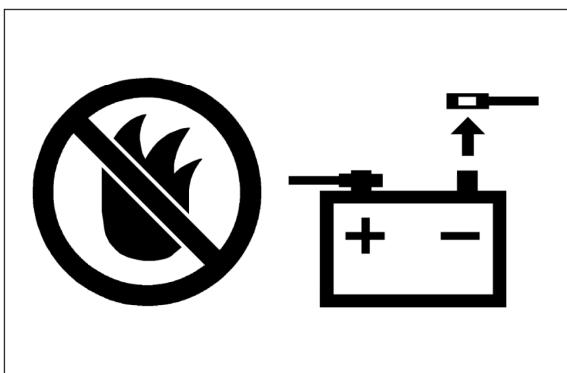
**SAFETY STARTING**

- 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, be careful 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 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 is applied to the injector. Pay sufficient caution to electric shock when performing work activities.





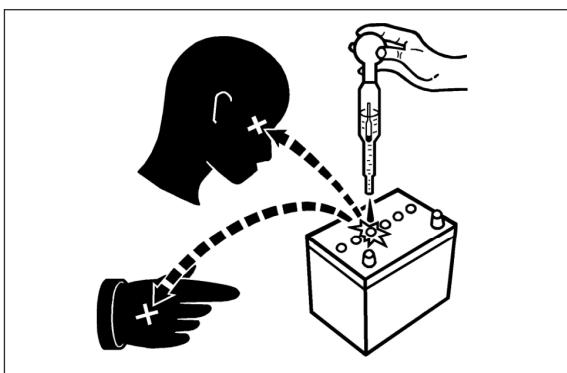
### AVOID FIRES

- 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.



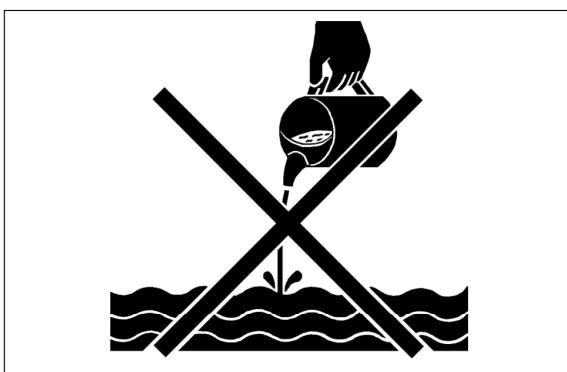
### VENTILATE WORK AREA

- 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.



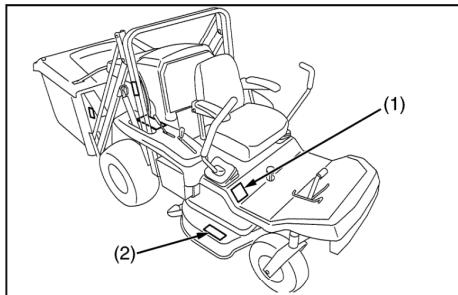
### PREPARE FOR EMERGENCIES

- 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.

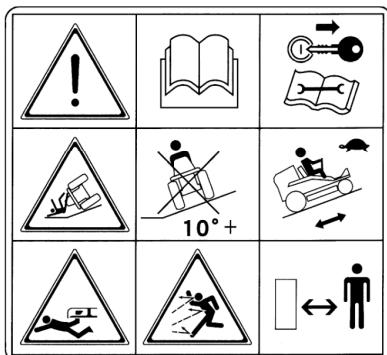
## SAFETY DECALS

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] GZD15,GZD15-2



(1) Part No. K2011-6581-1



### TO AVOID INJURY OR DEATH:

- Read and understand Operator's Manual.
- Shut off engine and remove key before servicing.
- DO NOT operate where machine could slip or tip.
- Mow across SLOPES-NOT UP and Down.
- DO NOT allow any bystanders or children around or near machine at all times when the engine is running.

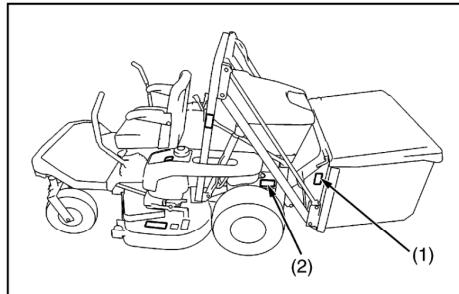
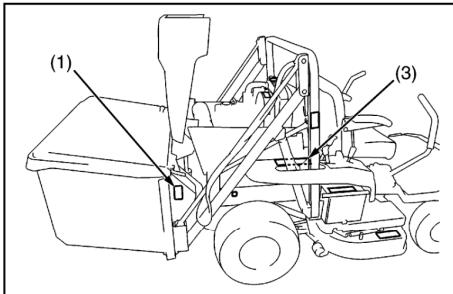
(2) Part No. K5243-7311-1



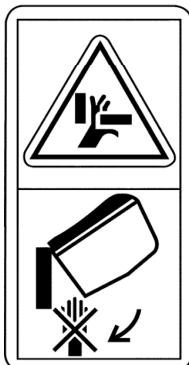
### ROTATING BLADES HAZARDOUS:

- DO NOT put hands or feet into mower when engine is running.
- Keep all shields and guards in place.

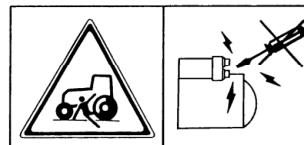
3GZAAABCP001A



(1) Part No. K6082-6582-1



(1) Part No. K3512-4718-1



## TO AVOID MACHINE RUNAWAY:

- DO NOT start engine by shorting across starter terminals or bypassing the safety start switch.

(3) Part No. K6082-6582-1

**⚠ ATTENTION · CAUTION · ACHTUNG**

LORSQUE VOUS UTILISEZ CET APPAREIL, IL EST CONSEILLE DE...

- 1- REDUIRE LA VITESSE D'AVANCEMENT LORS DE LA COUPE D'HERBE LONGUE OU HUMIDE.
- 2- NE JAMAIS LEVER LE BAC LORSQUE LE TRACTEUR SE TROUVE SUR UNE SURFACE INSTABLE INEGALE OU EN PENTE.
- 3- NE JAMAIS CONDUIRE LE TRACTEUR OU PRENDRE DES VIRAGES A VIVE ALLURE LORSQUE LE BAC EST EN POSITION HAUTE.
- 4- TOUJOURS DEBRAYER LA PRISE DE FORCE AVANT DE LEVER LE BAC.
- 5- ARRETER LE MOTEUR DU TRACTEUR AVANT TOUTE INTERVENTION SUR L'APPAREIL.
- 6- POSER DES CONTREPoids A L'AVANT DU TRACTEUR.
- 7- RAMENER LE BAC EN POSITION PRE-BENAGE AVANT DE LE REDESCENDRE

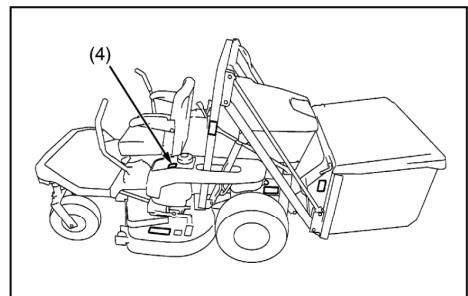
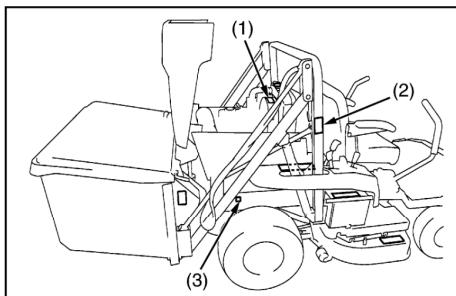
WHEN USING THE UNIT YOU ARE ADVISED...

- 1- TO REDUCE FORWARD SPEED WHEN CUTTING LONG OR WET GRASS.
- 2- NEVER TO RAISE THE GRASSBOX WHILE THE TRACTOR IS ON SOFT, SLOPING OR UNEVEN GROUND.
- 3- NEVER DRIVE THE TRACTOR OR TURN SHARPLY WHILE THE GRASSBOX IS RAISED.
- 4- ALWAYS DISENGAGE THE PTO BEFORE RAISING THE GRASSBOX.
- 5- ALWAYS STOP THE TRACTOR ENGINE BEFORE CLEARING ANY BLOCKAGES.
- 6- TO FIT COUNTER WEIGHTS TO THE FRONT OF THE TRACTOR.
- 7- ALWAYS RETURN THE GRASSBAG TO THE PRE DUMP POSITION BEFORE LOWERING INTO THE WORKING POSITION.

BEIM EINSATZ FOLGENDE HINWEISE BEACHTEN:

- 1- BEI LANGEM ODER NASSEM GRAS FAHRGESCHWINDIGKEIT REDUZIEREN.
- 2- BEI WECHSEL, ABSCHÜSSEN ODER UNEBENEM GELÄNDE DEN FANGBEHÄLTER NICHT HOCHFAHREN.
- 3- KEINE ENGEN KURVEN FAHREN MIT ANGEHOBENEM FANGBEHÄLTER.
- 4- VOR DEM HOCHFAHREN DES FANGBEHÄLTERS MÄHWERK AUSCHALTEN.
- 5- WAHREND DER BESETZUNG VON VERSTOPFUNGEN MOTOR ABSTELLEN.
- 6- KONTERGEWICHTE AM FRONTRAHMEN DES AUFSTIZMÄHERS ANBRINGEN.
- 7- VOR DEM HERUNTERFAHREN DEN FANGBEHÄLTER ZURÜCK IN AUSGANGSSTELLUNG KIPPEN.

K2011-65911



(1) Part No. 6C090-4958-2  
Stay clear of engine  
fan and fan belt



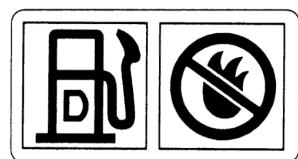
(2) Part No. K6082-6583-1  
[HD type only]  
● Do not put yourself below the  
grass container. If may fall  
accidentally

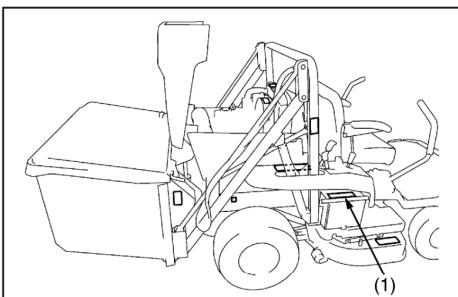


(3) Part No. K3512-4719-1  
HOT SURFACE  
DO NOT TOUCH



(4) Part No. K2011-6516-1  
Diesel fuel      No fire  
only





(1) Part No. 5H522-4112-1

#### TO AVOID INJURY FROM BATTERY GASES AND ACIDS

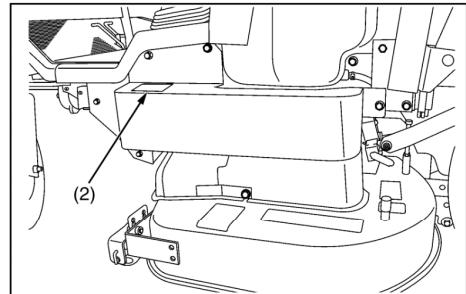
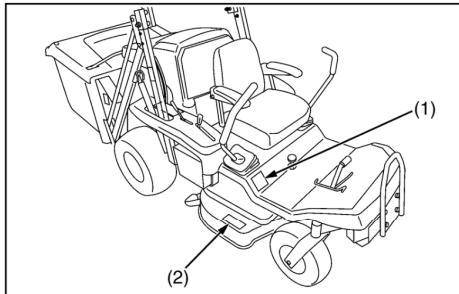


- Keep away cigarettes, flames or sparks.
- Always shield eyes and face from battery.
- Keep out of reach of children.
- Poison causes severe burns.  
● Contains sulfuric acid.
- Read and understand operator's manual.
- Danger explosive gases.

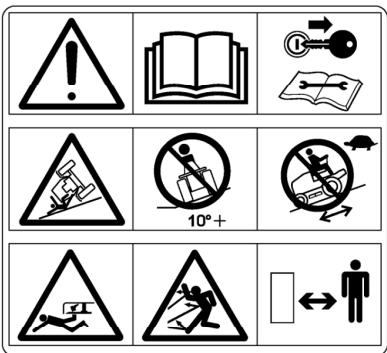
#### CARE OF PICTORIAL SAFETY LABELS

1. Keep pictorial safety labels clean and free from obstructing material.
2. Clean pictorial safety labels with soap and water, dry with a soft cloth.
3. Replace damaged or missing pictorial safety labels with new labels from your local KUBOTA Dealer.
4. If a component with pictorial safety 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 pictorial safety labels by applying on a clean dry surface and pressing any bubbles to outside edge.

9Y0211523IC1006US

**[2] GZD15-3**

(1) Part No. K2013-6581-1



1BDABANAP194A

(2) Part No. K2013-6593-1 [GZD15-13]



1BDABANAP149A

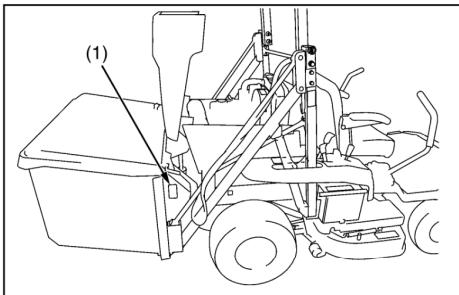
**TO AVOID INJURY OR DEATH:**

- Read and understand Operator's Manual.
- Shut off engine and remove key before servicing.
- DO NOT operate where machine could slip or tip.
- DO NOT operate on slopes of more than 10°.
- Mow up and down slowly, not across.
- DO NOT allow any bystanders or children around or near machine at all times when the engine is running.

**TO AVOID INJURY:**

- DO NOT raise the mower when putting hands under the cover.

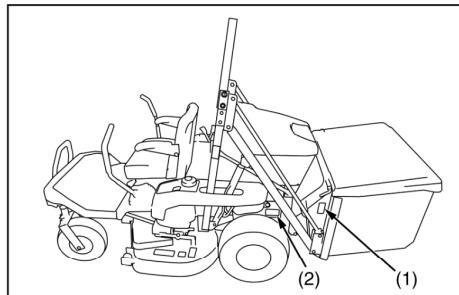
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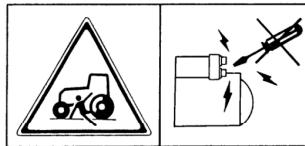
(1) Part No. K6082-6582-1



1BDABANAP082A



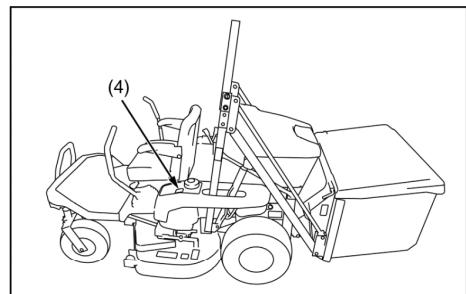
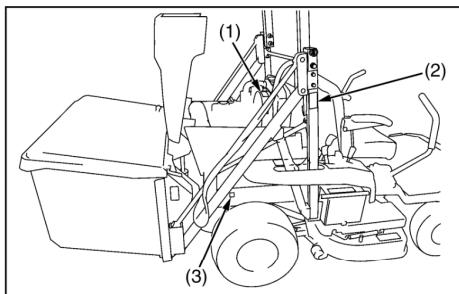
(2) Part No. K3512-4718-1



## TO AVOID MACHINE RUNWAY:

- DO NOT start engine by shorting across starter terminals or bypassing the safety start switch.

9Y0211523IC1002US



(1) Part No. 6C090-4958-2  
Do not get your hands close to engine fan and fan belt.



1BDABARAP113A

(2) Part No. K6082-6583-1  
[HD type only]  
● Do not put yourself below the glass container.  
It may fall accidentally.



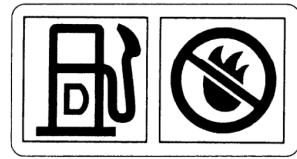
1BDABANAP079A

(3) Part No. K3512-4719-1  
HOT SURFACE  
DO NOT TOUCH



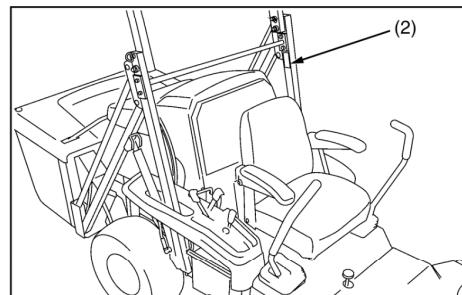
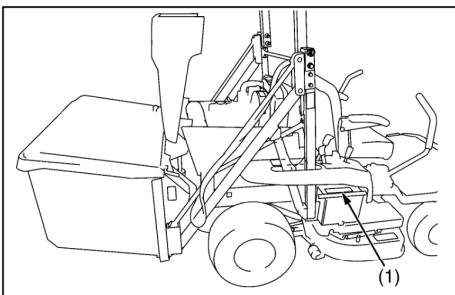
1BDABANAP080A

(4) Part No. K2011-6516-4  
Diesel fuel only      No fire



1BDABANAP081A

9Y0211523IC1003US



(1) Part No. K2013-6112-1

**TO AVOID INJURY FROM BATTERY  
GASES AND ACIDS**



- Keep away cigarettes, flames or sparks.



- Always shield eyes and face from battery.



- Keep out of reach of children.



- Poison causes severe burns.
- Contains sulfuric acid.



- Read and understand operator's manual.



- Danger explosive gases.

1BDABANAP085A

(2) Part No. K2031-6586-1



1BDABANAP215A

- Machine rollover -Crush
- Do not use the seat belt if the ROPS is folded.

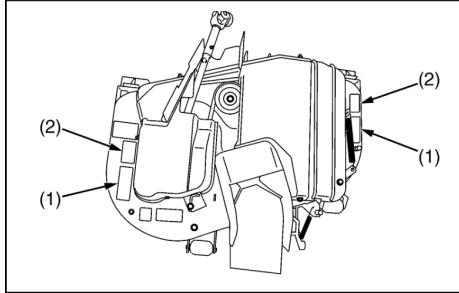
Fold the ROPS down only when absolutely necessary and fold it up and lock it again as soon as vertical clearance allows.

- Always use the seat belt when the ROPS is in the upright position.  
Keep the ROPS in the upright and locked position.

- Never modify or repair the ROPS because welding, bending, drilling, grinding, or cutting any portion may weaken the structure.

9Y0211523IC1004US

[GZD15-3]



(1) Part No. K5644-4179-1

- Severing of hands or feet - blade
- Shut off engine and remove key before performing maintenance or repair work
- Do not put hands or feet into mower when engine is running.



1BDABDDAP110A

(2) Part No. K5622-4180-1

- Hand and arm entanglement - belt drive
- Do not get your hands close to driving belt.



1BDABDDAP108A

#### CARE OF PICTORIAL SAFETY LABELS

1. Keep pictorial safety labels clean and free from obstructing material.
2. Clean pictorial safety labels with soap and water, dry with a soft cloth.
3. Replace damaged or missing pictorial safety labels with new labels from your local KUBOTA Dealer.
4. If a component with pictorial safety 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 pictorial safety labels by applying on a clean dry surface and pressing any bubbles to outside edge.

9Y0211523IC1005US

# SPECIFICATIONS

## [1] GZD15, GZD15-2

Model	GZD15-LD	GZD15-HD
Maximum gross power	11.2 kW (15 HP) *1	
Engine	Model	Z602-GZD15
	Type	Indirect injection. Vertical, water-cooled, 4-cycle diesel engine
	Number of cylinder	2
	Bore and stroke	72.0 x 73.6 mm (2.83 x 2.90 in.)
	Total displacement	599 cm <sup>3</sup> (36.6 cu.in.)
	Rated revolution	3000 rpm
	Combustion chamber	Spherical type (E-TVCS)
	Fuel injection pump	Bosch MD type mini pump
	Governor	Centrifugal ball mechanical governor
	Injection nozzle	Bosch throttle type
	Injection timing	0.30 to 0.33 rad. (17° to 19°) before T.D.C.
	Injection order	1-2
	Injection pressure	13.73 MPa (140 kgf/cm <sup>2</sup> , 1990 psi)
	Lubricating system	Forced lubrication by gear pump
	Cooling system	Pressurized radiator, forced circulation with water pump
	Lubricating oil	API Service classification CD, CE or CF, below 0 °C (32 °F) : SAE 10W, 10W-30 or 10W-40, 0 to 25 °C (32 to 77 °F) : SAE 20, 10W-30 or 10W-40, above 25 °C (77 °F) : SAE 30, 10W-30 or 10W-40
	Starting system	Electrical starter (12 V, 1.1 kW)
	Battery	65D23L (12V, 52A.H. at 5H.R.)
	Fuel	No.2-D Diesel fuel (ASTM D975) [No. 1-D diesel fuel, if temperature is below -10 °C (14 °F)]
Capacities	Fuel tank	20 L (5.3 U.S.gals, 4.4 Imp.gals)
	Engine crankcase	2.1 L (2.2 U.S.qts, 1.8 Imp.qts)
	Engine coolant	1.4 L (1.5 U.S.qts, 1.2 Imp.qts)
	Recovery tank	0.25 L (0.26 U.S.qts, 0.22 Imp.qts)
	Transmission case & rear axle gear case (RH & LH)	10.0 L (10.6 U.S.qts, 8.8 Imp.qts)
	Front PTO case	0.13 L (0.14 U.S.qts, 0.11 Imp.qts)
	Mower gear case oil	0.15 L (0.16 U.S.qts, 0.13 Imp.qts)
Tyres	Front	15 x 6.0 - 6 (4 PR) Rib
	Rear	20 x 10.0 - 12 (4 PR) Turf
Traveling speeds	Forward	0 to 13.5 km/h (0 to 8.4 mph)
	Reverse	0 to 10.0 km/h (0 to 6.3 mph)

NOTE: \*1 Manufacturer's estimate

Model		GZD15-LD	GZD15-HD
Dimensions	Overall length (with grass collector)		2785 mm (109.7 in.)
	Overall width (with mower)		1195 mm (47.1 in.)
	Overall height (without ROPS)		1115 mm (43.9 in.)
	Wheel base		1285 mm (50.6 in.)
	Tread	Front	815 mm (32.1 in.)
		Rear	950 mm (37.4 in.), 850 mm (32.7 in.)
Weight (with mower deck and grass collector)		510 kg (1124.6 lbs) / with 40 in. mower deck	540 kg (1190.7 lbs) / with 40 in. mower deck

## [2] GZD15-3

	Model	GZD15-3LD	GZD15-3HD
Engine	Model	Z602	
	Type	Liquid - cooled	
	Total displacement	599 cm <sup>3</sup> (36.6 cu.in.)	
	Gross power	11.2 kW (15 HP)	
	Rated revolution	2950 to 3050 min <sup>-1</sup> (rpm)	
	Maximum operating engine speed	2870 to 2970 min <sup>-1</sup> (rpm)	
	Low idling revolution	1400 to 1500 min <sup>-1</sup> (rpm)	
	No. of cylinders	2	
	Starter	Electric starter with battery	
	Battery	50B24L (12 V, 330 CCA)	
	Fuel	Diesel fuel No.1 (below -10 °C ) Diesel fuel No.2 (above -10 °C )	
	Preheating system	Super glow	
	Engine stop	Key stop	
Capacities	Fuel tank	19 L (5.0 U.S.gals, 4.2 Imp.gals)	
	Engine oil	2.1 L (2.2 U.S.qts, 1.8 Imp.qts)	
	Radiator coolant	1.4 L (1.5 U.S.qts, 1.2 Imp.qts)	
	Transmission case oil	10.0 L (10.6 U.S.qts, 8.80 Imp.qts)	
Machine	PTO	Shaft drive	
	Direction of revolution	Counter Clockwise	
	PTO Brake	Wet single disk	
	PTO clutch	Wet multi disk	
	Tires	Front	15 x 6.0 - 6 (4PR)
		Rear	20 x 10.0 - 8 (4PR)
	Steering type	2 - Hand levers	
	Brake	Wet multi disk	
	Travel speed control	2 - Hand levers	
	Transmission	2 - HST W / Gear	
	Traveling speeds	Forward	0 to 13.5 km/h (0 to 8.4 mph)
		Reverse	0 to 10.0 km/h (0 to 6.3 mph)
Dimensions	Overall length (with grass collector)	2820 mm (111.0 in.)	
	Overall width (with mower)	1210 mm (47.64 in.)	
	Overall height	1210 mm (75.98 in.)	
	Wheel base	1285 mm (50.59 in.)	
	Weight (with mower, grass catcher) (with o fuel)	580 kg (1280 lbs)	600 kg (1320 lbs)

NOTE: \*The company reserves the right to change the specifications without notice

Type		RC42GZD-3	RCK48GZD-2
Mower	Cutting width	106.7 cm (42.01 in.)	
	Cutting height	25.0 to 127 mm (0.985 to 5.00 in.)	
	Adjustment of cutting height	Dial gauge	
	Mounting method	Quick joint, Parallel linkage	
	Weight (Approx.)	66 kg (150 lbs)	
	Dimension	Total length	985 mm (38.8 in.)
		Total width	1125 mm (44.29 in.)
		Total height	271 mm (10.7 in.)

Model		GC400LZ-2	GC400HZ-2
Grass catcher	Container Capacity	400 L (24400 in <sup>3</sup> )	400 L (24400 in <sup>3</sup> )
	Weight (Approx.)	34 kg (75 lbs)	34 kg (75 lbs)
	Dumping height	—	1800 mm (70.87 in.)

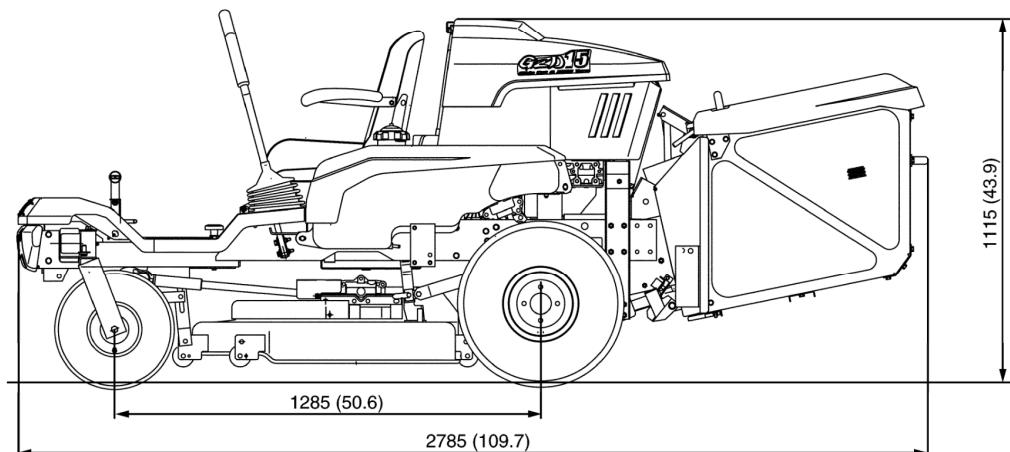
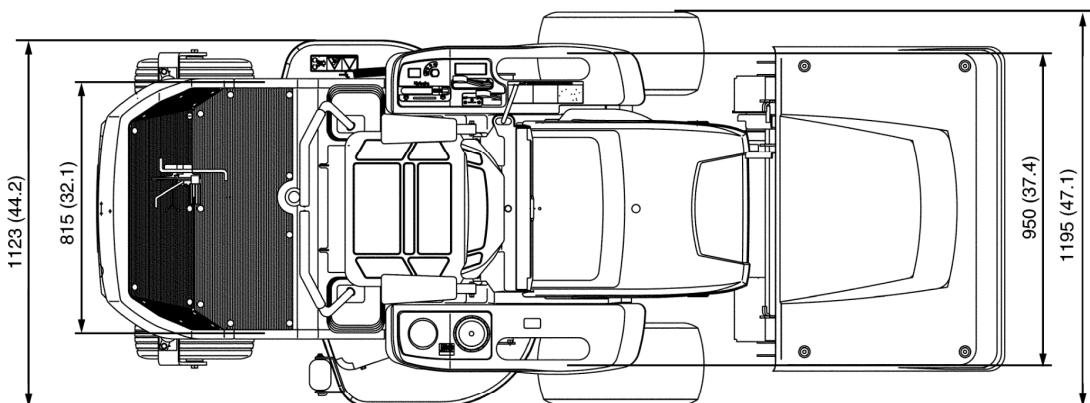
NOTE: \*The company reserves the right to change the specifications without notice

# DIMENSIONS

## [1] GZD15

[GZD15-LD]

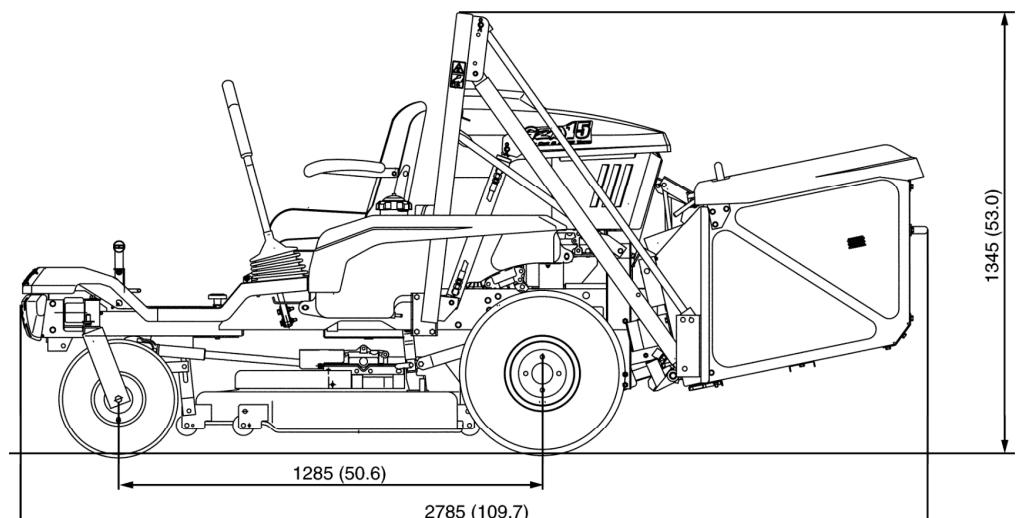
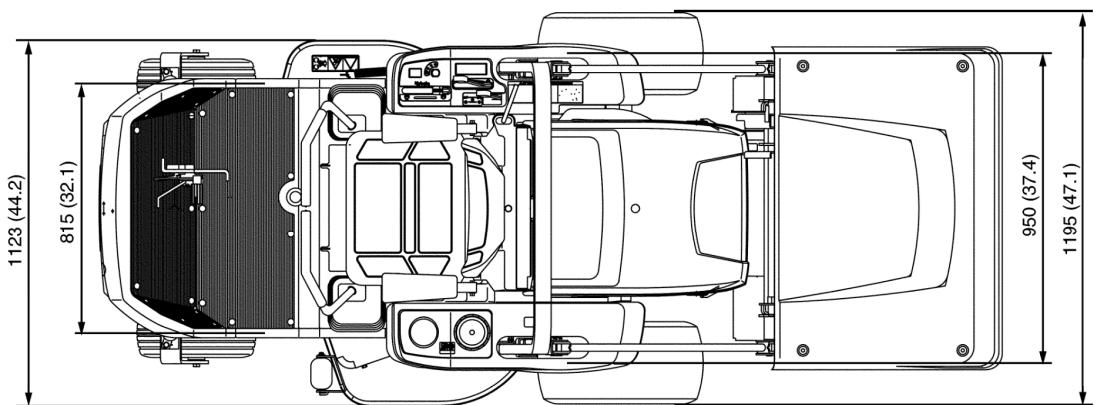
Unit: mm (in.)



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[GZD15-HD]

Unit: mm (in.)

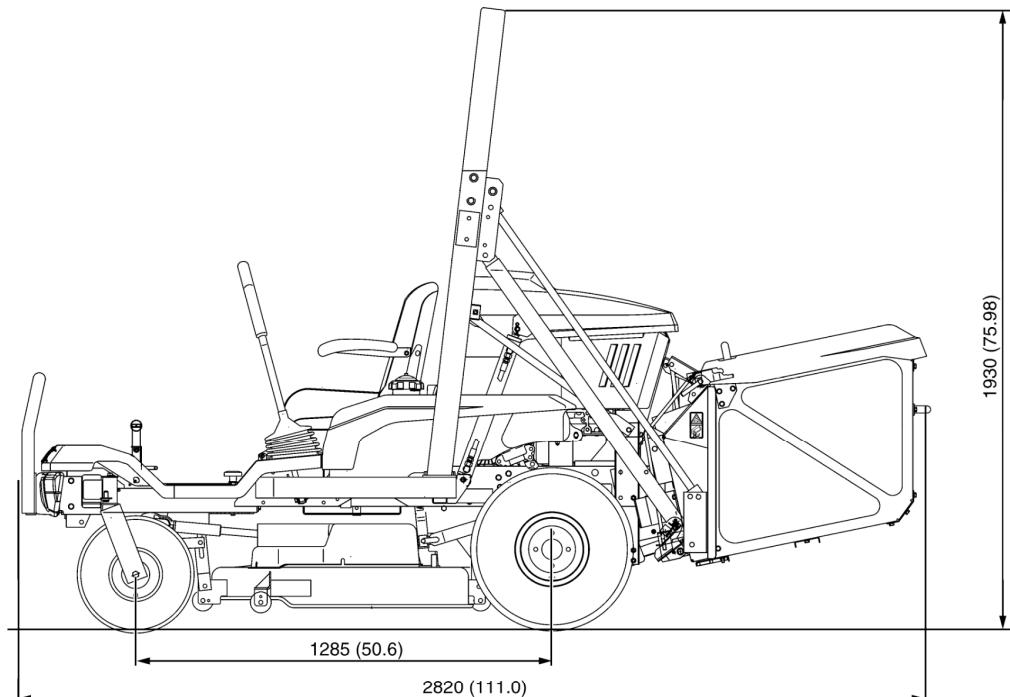
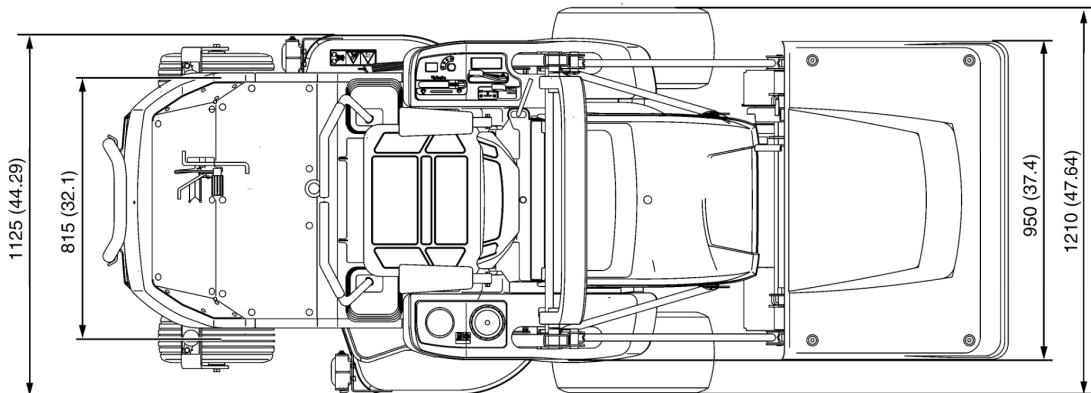


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## [2] GZD15-3

[GZD15-3]

Unit: mm (in.)



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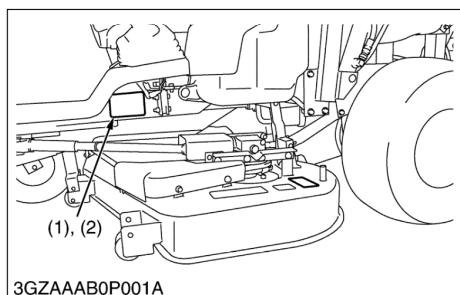
# **G GENERAL**

# GENERAL

## CONTENTS

1. IDENTIFICATION.....	G-1
2. ENGINE IDENTIFICATION.....	G-2
[1] MODEL NAME AND OLD ENGINE SERIAL NUMBER.....	G-2
[2] MODEL NAME AND NEW ENGINE SERIAL NUMBER.....	G-3
[3] E3B ENGINE.....	G-5
[4] CYLINDER NUMBER .....	G-5
3. GENERAL PRECAUTIONS .....	G-6
4. HANDLING PRECAUTIONS FOR ELECTRICAL PARTS AND WIRING..	G-7
[1] WIRING.....	G-7
[2] BATTERY.....	G-9
[3] FUSE.....	G-9
[4] CONNECTOR.....	G-9
[5] HANDLING OF CIRCUIT TESTER.....	G-10
5. LUBRICANTS, FUEL AND COOLANT .....	G-11
[1] GZD15, GZD15-2.....	G-11
[2] GZD15-3 .....	G-13
6. TIGHTENING TORQUES .....	G-15
[1] GENERAL USE SCREWS, BOLTS AND NUTS.....	G-15
[2] METRIC SCREWS, BOLTS AND NUTS .....	G-15
[3] AMERICAN STANDARD SCREWS, BOLTS AND NUTS WITH UNC OR UNF THREADS .....	G-16
[4] PLUGS .....	G-16
7. MAINTENANCE .....	G-17
[1] GZD15.....	G-17
[2] GZD15-2, GZD15-3.....	G-19
8. CHECK AND MAINTENANCE.....	G-21
[1] DAILY CHECK .....	G-21
[2] CHECK POINTS OF INITIAL 50 HOURS .....	G-28
[3] CHECK POINT OF INITIAL 100 HOURS .....	G-33
[4] CHECK POINTS OF EVERY 50 HOURS .....	G-34
[5] CHECK POINTS OF EVERY 100 HOURS .....	G-43
[6] CHECK POINT OF EVERY 150 HOURS .....	G-45
[7] CHECK POINTS OF EVERY 200 HOURS .....	G-45
[8] CHECK POINT OF EVERY 400 HOURS .....	G-48
[9] CHECK POINTS OF EVERY 1 YEAR .....	G-48
[10]CHECK POINTS OF EVERY 2 YEARS.....	G-51
[11]OTHERS .....	G-52
9. SPECIAL TOOLS.....	G-62
[1] SPECIAL TOOLS FOR ENGINE .....	G-62
[2] SPECIAL TOOLS FOR MACHINE.....	G-68

# 1. IDENTIFICATION



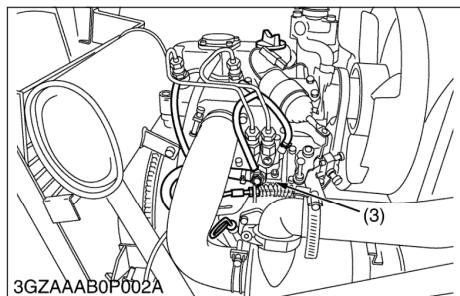
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When contacting your local KUBOTA distributor, always specify engine serial number (3), machine serial number (2), mower serial number (4) and hour meter reading.

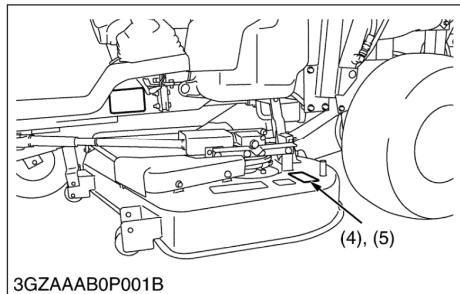
- (1) Machine Identification Plate
- (2) Machine Serial Number
- (3) Engine Serial Number

- (4) Mower Serial Number
- (5) Mower Identification Plate

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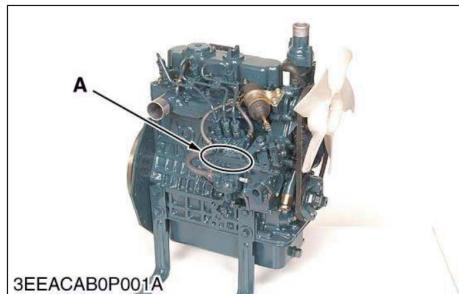
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## 2. ENGINE IDENTIFICATION

### [1] MODEL NAME AND OLD ENGINE SERIAL NUMBER



When contacting the manufacturer, always specify your engine model name and serial number.

The engine model and its serial number need to be identified before the engine can be serviced or parts replaced.

#### ■ Engine Serial Number

The engine serial number is an identified number for the engine. It is marked after the engine model number.

It indicates month and year of manufacture as follows.

#### • Year of manufacture

Alphabet or Number	Year	Alphabet or Number	Year
6	2006	H	2017
7	2007	J	2018
8	2008	K	2019
9	2009	L	2020
A	2010	M	2021
B	2011	N	2022
C	2012	P	2023
D	2013	R	2024
E	2014	S	2025
F	2015	T	2026
G	2016	V	2027

**A: Engine Model Name and Serial Number**

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#### • Month of manufacture

Month	Engine Serial Number	
January	A0001 ~ A9999	B0001 ~ BZ999
February	C0001 ~ C9999	D0001 ~ DZ999
March	E0001 ~ E9999	F0001 ~ FZ999
April	G0001 ~ G9999	H0001 ~ HZ999
May	J0001 ~ J9999	K0001 ~ KZ999
June	L0001 ~ L9999	M0001 ~ MZ999
July	N0001 ~ N9999	P0001 ~ PZ999
August	Q0001 ~ Q9999	R0001 ~ RZ999
September	S0001 ~ S9999	T0001 ~ TZ999
October	U0001 ~ U9999	V0001 ~ VZ999
November	W0001 ~ W9999	X0001 ~ XZ999
December	Y0001 ~ Y9999	Z0001 ~ ZZ999

\* Alphabetical letters "I" and "O" are not used.

e.g. D902 - 7 B A001

(a) (b)(c) (d)

(a) Engine Model Name: **D902**

(b) Year: **7** indicates **2007**

(c) Month: **A** or **B** indicates **January**

(d) Lot number: **(0001 ~ 9999 or A001 ~ Z999)**

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## [2] MODEL NAME AND NEW ENGINE SERIAL NUMBER



When contacting the manufacturer, always specify your engine model name and serial number.

The engine model and its serial number need to be identified before the engine can be serviced or parts replaced.

### ■ Engine Serial Number

The engine serial number is an identified number for the engine. It is marked after the engine model number.

It indicates month and year of manufacture as follows.

#### A: Engine Model Name and Serial Number

#### • Engine Series

Alphabet or Number	Series	Alphabet or Number	Series
1	05 (include: WG)	7	03
2	V3	8	07
3	08	A	EA, RK
4	SM (include: WG)	B	03 (KET Production)
5	Air Cooled Gasoline	C	V3, 07 (KEW Production)
6	GZ, OC, AC, EA, E		

#### • Production Year

Alphabet or Number	Year	Alphabet or Number	Year
1	2001	F	2015
2	2002	G	2016
3	2003	H	2017
4	2004	J	2018
5	2005	K	2019
6	2006	L	2020
7	2007	M	2021
8	2008	N	2022
9	2009	P	2023
A	2010	R	2024
B	2011	S	2025
C	2012	T	2026
D	2013	V	2027
E	2014		

(To be continued)

**(Continued)****• Production Month and Lot Number**

Month	Engine Serial Number	
January	A0001 ~ A9999	B0001 ~ BZ999
February	C0001 ~ C9999	D0001 ~ DZ999
March	E0001 ~ E9999	F0001 ~ FZ999
April	G0001 ~ G9999	H0001 ~ HZ999
May	J0001 ~ J9999	K0001 ~ KZ999
June	L0001 ~ L9999	M0001 ~ MZ999
July	N0001 ~ N9999	P0001 ~ PZ999
August	Q0001 ~ Q9999	R0001 ~ RZ999
September	S0001 ~ S9999	T0001 ~ TZ999
October	U0001 ~ U9999	V0001 ~ VZ999
November	W0001 ~ W9999	X0001 ~ XZ999
December	Y0001 ~ Y9999	Z0001 ~ ZZ999

\* Alphabetical letters "I" and "O" are not used.

e.g. D902 - 4 C M A001  
 (a) (b)(c)(d) (e)

- (a) **D902**: Engine Model Name
- (b) **4**: Engine Series (SM series)
- (c) **C** Production Year (2012)
- (d) **M** Production Month (June)
- (e) **A001**: Lot number : (**0001 ~ 9999** or **A001 ~ Z999**)

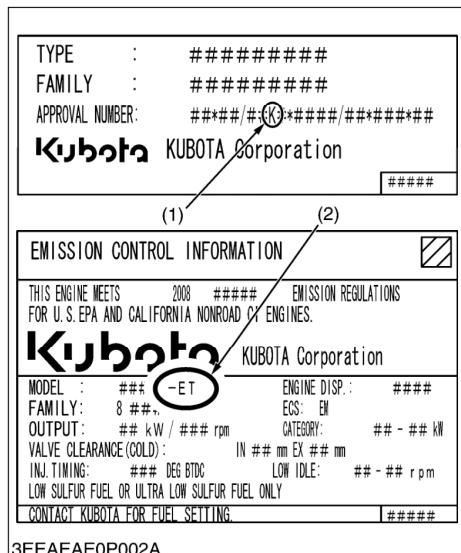
## [3] E3B ENGINE

[Example: Engine Model Name D902-E3B-XXXX]

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

Over the past several years, Kubota has been supplying diesel engines that comply with regulations in the respective countries affected by Non-Road Emission regulations. For Kubota Engines, E3B will be the designation that identifies engine models affected by the next emission phase (See the table below).

When servicing or repairing ###-E3B series engines, use only replacement parts for that specific E3B engine, designated by the appropriate E3B Kubota Parts List and perform all maintenance services listed in the appropriate Kubota Operator's Manual or in the appropriate E3B Kubota Workshop Manual. Use of incorrect replacement parts or replacement parts from other emission level engines (for example: E2B engines), may result in emission levels out of compliance with the original E3B design and EPA or other applicable regulations. Please refer to the emission label located on the engine head cover to identify Output classification and Emission Control Information. E3B engines are identified with "ET" at the end of the Model designation, on the US EPA label. Please note: E3B is not marked on the engine.



Category (1)	Engine output classification	EU regulation
K	From 19 to less than 37 kW	STAGE IIIA
J	From 37 to less than 75 kW	STAGE IIIA
I	From 75 to less than 130 kW	STAGE IIIA
Category (2)	Engine output classification	EU regulation
ET	Less than 19 kW	Tier 4
	From 19 to less than 56 kW	Interim Tier 4
	From 56 to less than 75 kW	Tier 3
	From 75 to less than 130 kW	Tier 3

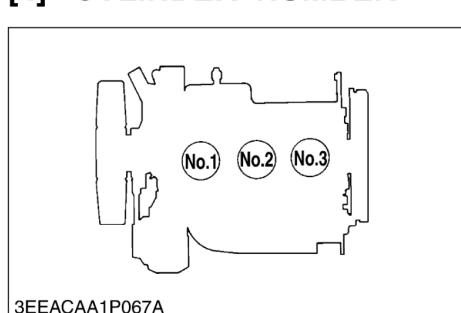
(1) EU regulation engine output classification category

(2) "E3B" engines are identified with "ET" at the end of the Model designation, on the US EPA label.

"E3B" designates Tier 3 and some Interim Tier 4 / Tier 4 models, depending on engine output classification.

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## [4] CYLINDER NUMBER



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

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

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