SPECIFICATIONS

SPECIFICATION TABLE

Model				Z231KW-AU
Engine	Model name			**Kawasaki GH739V**
	Max. engine power (gross)		kW(HP)	16.0 (21.5) *1*2
	Type			Air-cooled gasoline engine
	Number of cylinders			2 (V-Twin)
	Bore and stroke		mm (in.)	78 × 76 (3.07 × 2.99)
	Total displacement		cm^3 (cu. in.)	726 (44.3)
	Rated revolution		rpm	3600
	Fuel			Unleaded gasoline
	Starter			Electric
	Lubrication			Full pressure lubrication
	Cooling			Air-cooled
	Battery			U1 (12 V, RC: 45 min, CCA: 300, CA: 410)
Capacities	Fuel tank		L (U.S.gals.)	13.6 (3.6)
	Engine crankcase (with filter)		L (U.S.qts.)	2.1 (2.2)
	Transmission case including rear axle gear case		L (U.S.qts.)	1.513 to1.588 (1.599 to 1.678) *3
Dimensions	Overall length		mm (in.)	1890 (74.4)
	Overall width without mower deck		mm (in.)	1076 (42.4)
	Overall height (with ROPS)		mm (in.)	1660 (65.4)
	Wheelbase		mm (in.)	1236 (48.7)
	Min. ground clearance		mm (in.)	104 (4.1)
	Tread	Front	mm (in.)	616 (24.3)
		Rear	mm (in.)	885 (34.8)
Weight (without fuel, with mower deck)			kg (lbs.)	282 (621)
Traveling system	Tires	Front		11 × 4 - 5 (4PR) smooth
		Rear		18 × 7.5 - 10 (4PR)
	Traveling speeds	Forward	mph (km/h)	6.5 (10.5)
		Reverse	mph (km/h)	4 (6.4)
	Steering			2 - hand levers
	Transmission			2 - HST with gear
	Parking brake			Hand lever applied, released
	Min. turning radius		mm (in.)	0 (0)
PTO	Drive system			Belt
	Clutch type			Electric

Specifications and design subject to change without notice.

*1 Engine Max rpm

*2 These Kawasaki engines have been tested in accordance with SAE J1995, verified by TÜV Rheinland Group, and certified by SAE International. The gross power ratings of these engines were determined by using measurements according to SAE J1995 which were witnessed by SAE-approved witnesses from TÜV Rheinland Group. Torque ratings of these engines were not certified by SAE. Actual power and torque output will vary depending on numerous factors, including, but not limited to, the operating speed of the engine in application, environmental conditions, maintenance, and other variables.

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MOWER MOUNTING

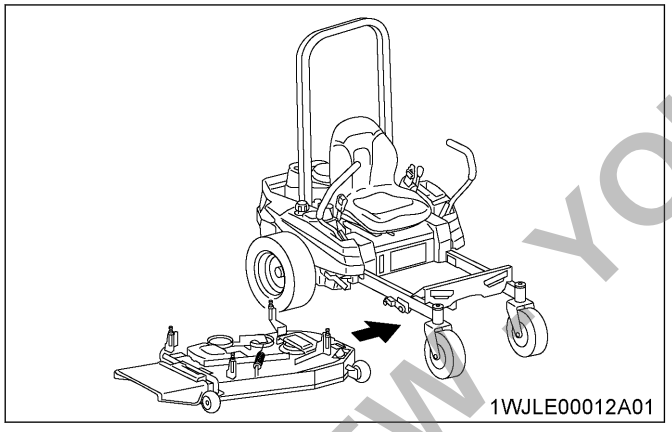
MOUNTING THE MOWER DECK

⚠ WARNING

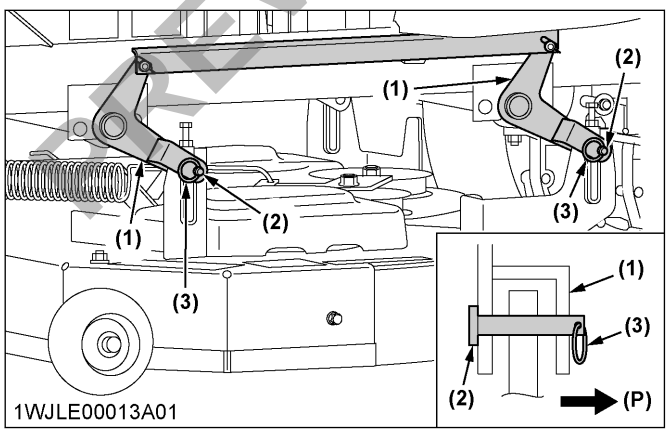
To avoid serious injury or death:

- **Park the machine on a firm and level surface.**
- **Apply the parking brake.**
- **Stop the engine and remove the key.**

1. Before mounting the mower deck, raise the lift links to the full up position.
2. Adjust the cutting height control dial to 1.5 in. position.
3. Change the direction of the front tires as shown in the figure.
4. Place the mower deck at the right side of the machine.

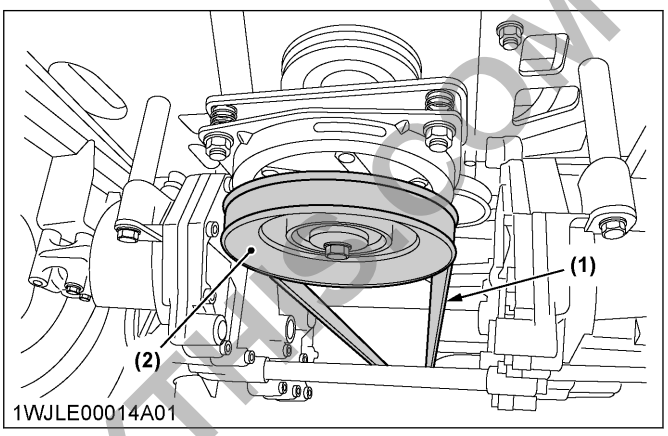


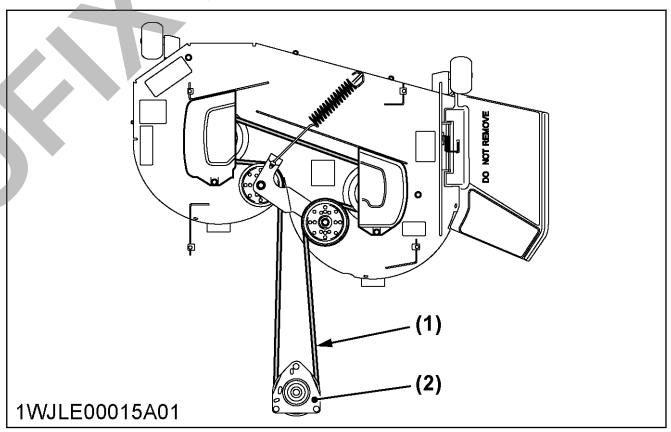
5. Slide the mower deck under the machine, then lower mower lift links.
6. Attach the lift links to the mower deck with attaching hardware.



(1) Lift link
(2) Clevis pin
(3) Snap ring
(P) Out side

7. Attach the mower belt to the engine pulley. Refer the belt routing.





(1) Mower belt
(2) Engine pulley

IMPORTANT :

- **Check to see that the mower belt is attached to the pulleys. Make sure that the longer hook of the spring is set to the pulley side.**

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IMPLEMENT LIMITATIONS

TERMS OF USE

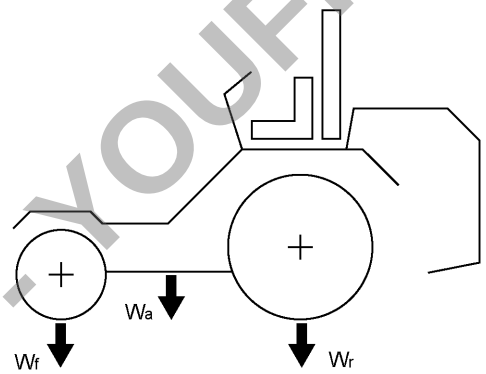
The KUBOTA Machine has been thoroughly tested for proper performance with implements sold or approved by KUBOTA.
Use with implements below may result in malfunctions or failures of the machine, damage to other property and injury to the operator or others.

- Implements which are not sold or approved by KUBOTA
- Implements which exceed the maximum specifications listed below, or
- Implements which are otherwise unfit for use with the KUBOTA Machine

Any malfunctions or failures of the machine resulting from use with improper implements are not covered by the warranty.

Weight limit table

Unit	Maximum loading weight		Implement weight W_a	Maximum total weight
	Front axle W_f	Rear axle W_r		
Z231KW-AU	83 kg (184 lbs.)	362 kg (798 lbs.)	50 kg (110 lbs.)	445 kg (982 lbs.)



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NOTE :

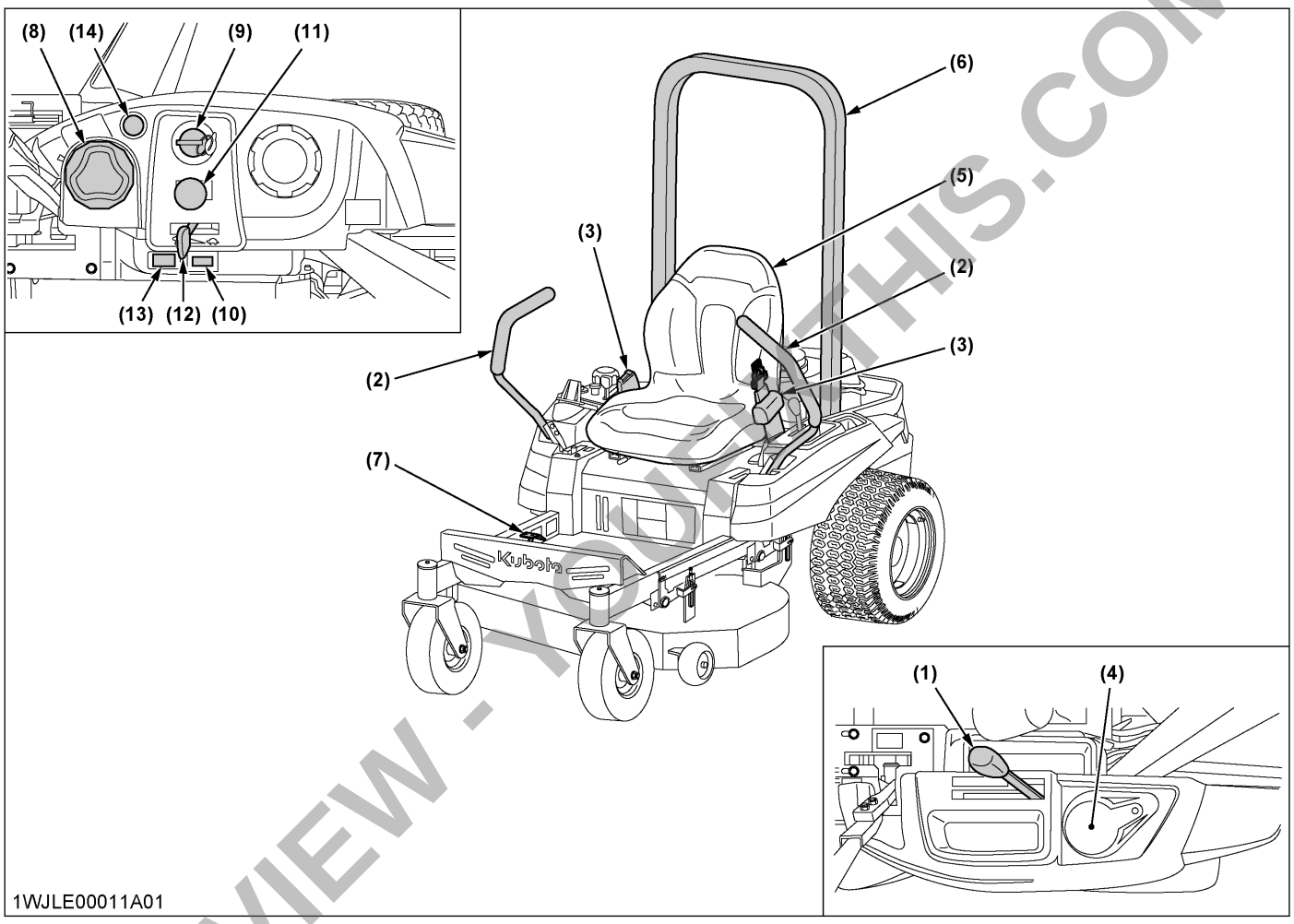
- **These limits include operator weight with seat in rearmost position.**

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INSTRUMENT PANEL AND CONTROLS

INSTRUMENT PANEL, SWITCHES AND HAND CONTROLS

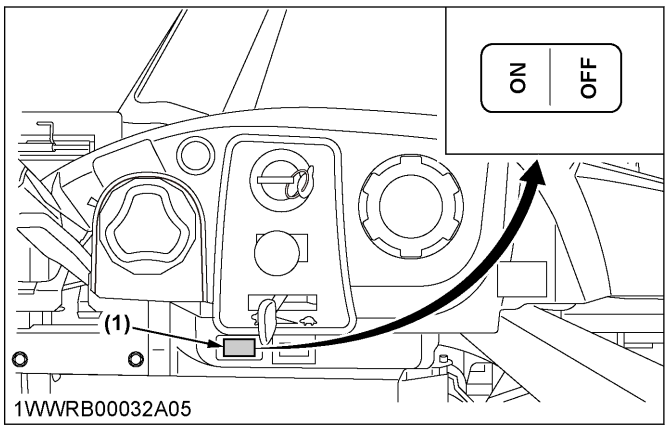


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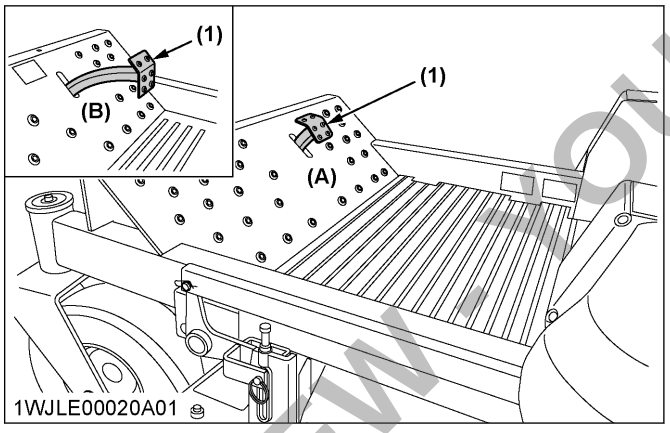


(1) Light switch

4. Mower lift pedal

The mower lift pedal is used to raise and lower the mower deck. The 4.25 in. cutting height serves as a carry position.

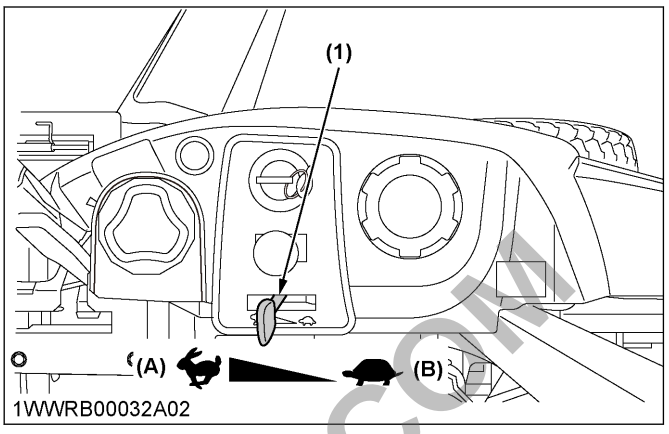
1. To set the mower deck at a desired cutting height, refer to the adjusting cutting height procedure. (See OPERATING THE MOWER on page 36)



(1) Mower lift pedal
(A) "RAISE" position
(B) "LOWER" position

5. Throttle lever

- Move the throttle lever backward to decrease the engine speed.
- Move it forward to increase the engine speed.

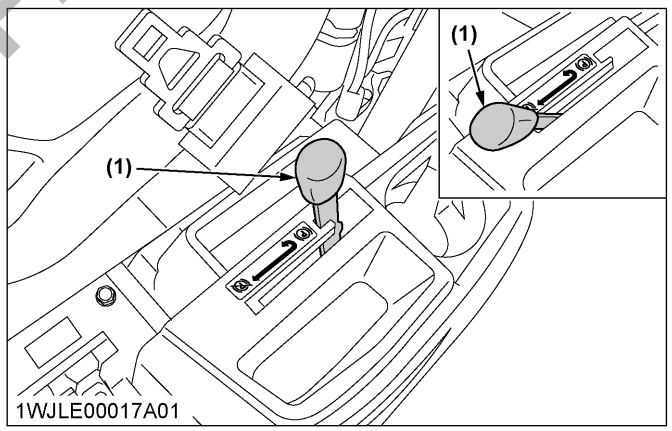


(1) Throttle lever
(A) "INCREASE"
(B) "DECREASE"

6. Parking brake lever

To apply the parking brake:
Place the parking brake lever in the *"ENGAGED"* position.

To release the parking brake:
Place the parking brake lever in the *"DISENGAGED"* position.



(1) Parking brake lever
(A) (P)"ENGAGED"
(B) (R)"DISENGAGED"

7. Motion control lever

⚠ WARNING

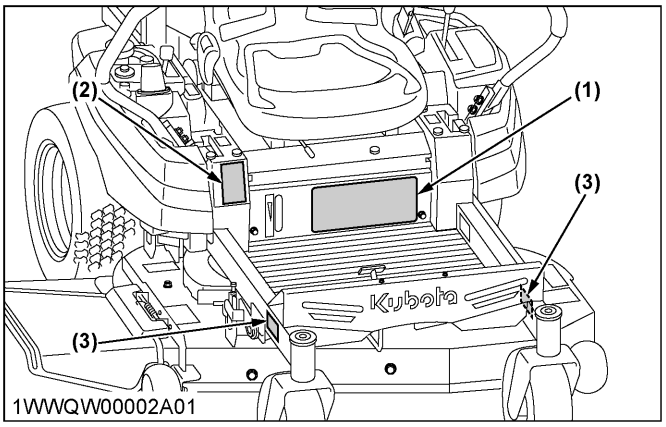
To avoid serious injury or death:

- **Understand how to use the motion control levers and practice in an unrestricted area at slightly more than idle speed without the mower engaged until becoming proficient in the operation of the machine.**
- **Do not move motion control levers from the *"FORWARD"* to *"REARWARD"* or from the *"REARWARD"* to *"FORWARD"* position rapidly. Sudden direction changes could cause the loss of control or damage to the machine or property.**
- **Do not make sharp turns at high speed.**

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SAFETY LABELS



(1) Part No. K3001-6542-1



(2) Part No. K3014-6569-1



- Use ear protection to avoid damage to hearing.
- Always wear protective glasses.

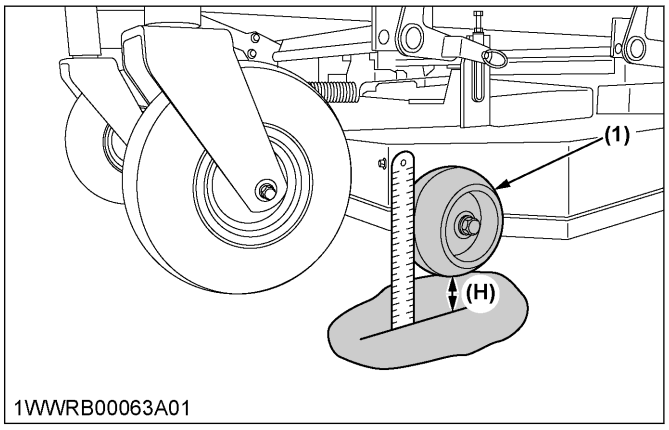
(3) Part No. K3004-6545-1



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6. Adjust the height of the front side anti-scalp roller to 1 of the 4 positions, to approximately 19 mm (0.75 in.) between the rollers and the ground.
   Adjust the other roller to the same height.



(1) Front side anti-scalp roller (H) 19 mm (0.75 in.)

7. Install the roller with the attaching hardware.

2. Leveling the mower deck (side-to-side)

⚠ WARNING

To avoid serious injury or death:

- **Park the machine on a firm and level surface.**
- **Apply the parking brake.**
- **Disengage the PTO (OFF).**
- **Stop the engine and remove the key while checking or adjusting the level of the mower deck.**

IMPORTANT :

- **Check the machine tire pressure.**
  Inflate the tires to the correct pressure.
  (See TIRES AND WHEELS on page 39.)

Checking the level (side-to-side)

NOTE :

- **The mower deck anti-scalp rollers should not contact the ground.**

1. Raise the mower deck to the end of travel (the top end).
2. Turn the cutting height set dial to the 76 mm (3 in.) cutting height position.
3. Lower the mower deck.
4. Position the right mower blade in the side-to-side position.
5. Measure from outside the blade tip to the level surface with a short ruler or leveling gauge.

Reference

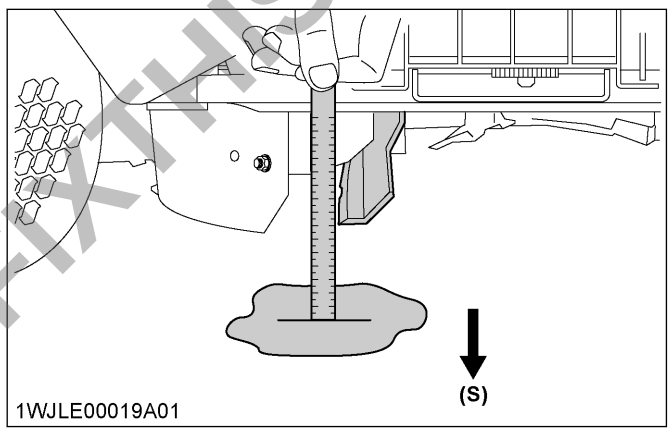
Height of the blade at the flat surface	76 mm (3 in.)

NOTE :

- **There is a difference of blade height between flat surface and ground measurements.**

6. Check that the left side blade has the same height. The difference between both measurements is less than 3 mm (0.125 in.).
7. If the side-to-side adjustment is not within the given tolerance, adjustment is necessary.

Side-to-side adjustment	Less than 3 mm (0.125 in.)



(S) Side

Adjusting the level (side-to-side)

1. Raise up the mower deck to the end of travel (the top end).
2. Turn the cutting height set dial to the 76 mm (3 in.) cutting height position.
3. Place 51 mm (2 in.) high wood blocks under each side of the mower deck.
   Anti-scalp rollers must not rest on the wood block.
4. Lower the mower deck.
5. Position the mower blade in the side-to-side position.
6. Loosen the jam nuts of the right side of the machine.
7. Adjust the cutting height fine tuning bolts to set 76 mm (3 in.) blade height.
   Front and rear side bolts must be adjusted.
8. Jam the nuts.
9. Adjust the left side equally.
10. Check the side-to-side level. If it is not level, adjustment is necessary.

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TROUBLESHOOTING

ENGINE TROUBLESHOOTING

If something is wrong with the engine, refer to the following table for the cause and its corrective measure.

Symptom (if)	Cause	Remedy
The engine is difficult to start or will not start.	• No operator on the seat.	• Sit on the operator's seat.
	• Parking brake lever not in the proper position.	• Apply the parking brake.
	• PTO switch not in the proper position.	• Make sure the PTO switch is in the *"DISENGAGED"* (OFF) position.
	• The motion control levers not in the proper position.	• Make sure motion control levers are in the *"NEUTRAL LOCK"* position.
	• The key switch not in the proper position.	• Make sure the key switch is in the *"ON"* position.
	• No fuel.	• Fill with fuel.
	• Improper or stale fuel (fuel quality is poor).	• Replace fuel and the fuel filter.
	• Water or dirt in the fuel system.	• Replace fuel and see your KUBOTA Dealer.
	• Fuel hose or fuel filter clogged or damaged.	• Clean or replace fuel lines and see your KUBOTA Dealer.
	• Air cleaner clogged.	• Clean or replace the air cleaner.
	• Spark plug damaged.	• Adjust the spark plug gap or replace the spark plug.
		• Check the spark plug wire connection.
	• Fuse blown.	• Replace the fuse.
	• The engine oil viscosity is wrong.	• Use oils of different viscosities, depending on the ambient temperature.
	• The battery becomes weak and the engine does not turn over quick enough.	• Clean battery cables and terminals.
		• Charge the battery.
		• In cold weather, always remove the battery from the engine, charge and store it indoors. Install it on the machine only when the machine is going to be used.
	• Over choking or choke adjusted incorrectly.	• Check and see your KUBOTA Dealer.
	• Fuel valve is closed.	• Open fuel valve.
Insufficient engine power.	• Insufficient or dirty fuel.	• Check the fuel system.
	• Fuel filter clogged.	• Replace the fuel filter.
	• Air cleaner clogged.	• Clean or replace the air cleaner.
	• Spark plug damaged.	• Adjust the spark plug gap or replace it.
The engine stops suddenly.	• Insufficient fuel.	• Refuel.
		• Check the fuel valve position.
		• Check the carburetor fuel valve position.

(Continued)

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