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T2090BR-AU-T2290KW-AU-T2290KWT-AU

OPERATOR'S MANUAL

KUBOTA LAWN TRACTOR

MODELS T2090BR-AU
T2290KW-AU
T2290KWT-AU



1TBRB00001A01

READ AND SAVE THIS MANUAL

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SAFE OPERATION

Careful operation is your best insurance against an accident.
The owner/user can prevent and is responsible for accidents or injuries occurring to themselves, other people or property. Read and understand this manual carefully before operating the machine. All operators, no matter how much experience they may have had, must read this and other related manuals before operating the machine or any implement attached to it. It is the owner's obligation to instruct all operators in safe operation.
If the operator(s) or mechanic(s) cannot understand the contents, it is the owner's responsibility to explain this material to them. This mowing machine is capable of amputating hands, feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

BEFORE OPERATING THE MACHINE

Know your equipment and its limitations. Read all instructions in this manual before attempting to start and operate the machine.

1. General

- Know the controls and how to stop quickly.
- Pay special attention to the safety labels on the machine itself.
- The exhaust gas from the muffler is very hot. To prevent fire, do not expose dry grass, mowed grass, oil or any other combustible materials to exhaust gas. Keep the engine and muffler clean all the time.
- Do not wear loose, torn, or bulky clothing around the machine. The clothing may catch on moving parts or controls, leading to the risk of an accident. Wear and use any additional safety items such as a hard hat, safety boots or shoes, eye and hearing protection, gloves and so on, as appropriate or required.
- Do not operate the machine or any attachments while under the influence of alcohol, medication, controlled substances or when fatigued.
- Check brakes and other mechanical parts for correct adjustment and wear. Replace worn or damaged parts promptly. Check the tightness of all nuts and bolts regularly.
  (See MAINTENANCE on page 36.)
- Keep the machine and attachments in good operating condition and keep safety devices in place and in proper working condition.
- This machine is equipped with many safety devices. Do not attempt to remove or alter them.
- Keep all shields and guards in place. Replace all missing or damaged items for your safety.
- Do not allow any bystanders around or near machine during operation.
  Be sure the area is clear of other people before mowing.
  Stop machine if anyone enters the area.
- Before allowing other people to use your machine, explain proper operation to them and have them read this manual before operation.
- Do not allow passengers or non-qualified operators on the machine at any time. You must operate the machine from the seat only.
- Carefully check the area to be mowed and clear any objects such as rocks, bottles, cans, toys, etc., that may damage the mower, the grass catcher or cause personal injury.
- Keep your machine clean. Accumulations of dirt, grease, and trash can contribute to fires and lead to personal injury.
- Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition. Check the mower blade mounting bolts for proper tightness at frequent intervals.
- Use only implements recommended by KUBOTA. Use proper ballast on the front or rear of the machine to reduce the risk of upsets. Follow the safe operating procedures specified in the manuals of the equipment.
- Follow the maintenance recommendations. (See MAINTENANCE on page 36.)
- It is recommended that your machine be thoroughly inspected at least once a year by an authorized KUBOTA Dealer.

OPERATING THE MACHINE

1. Starting to operate the machine

- Never start engine or operate levers from anywhere other than the seat.
- Before starting the engine, make sure that all levers (including auxiliary control levers) are in their neutral positions, that the parking brake is engaged, and that both the mower clutch and the power take-off (PTO) are disengaged.

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SPECIFICATIONS

SPECIFICATION TABLE

Model				T2090BR	T2290KW	T2290KWT
Engine	Model			**GH660V**	**GH739V-3**	
	Type			OHV air cooled gasoline engine		
	Number of cylinders			2		
	Total displacement		cm^3 (cu. in.)	656 (40.0)	726 (44.3)	
	Maximum horse power		kW (HP)	14.9 (20) *1*2	16.0 (21.5) *1*3	
	Cylinder bore and stroke		mm (in.)	75.4 x 73.4 (2.97 x 2.89)	78 x 76 (3.1 x 3.0)	
	Fuel			Automobile unleaded or regular gasoline		
	Starter			Electric starter with battery		
	Lubrication			Full pressure lubrication		
	Cooling			Forced air cooled		
	Battery type			U1-300 (12V, RC:45min, CCA300, CA:410)		
	Spark plug			**CHAMPION XC12YC**	**NGK BPR4ES**	
Capacities	Fuel tank		L (U.S. gals.)	13.6 (3.6)		
	Engine crankcase		L (U.S. qts.)	1.9 (2.0)	2.1 (2.2)	
	Hydrostatic transmission case		L (U.S. qts.)	2.0 (2.1)		2.75 (2.9)
Machine	PTO drive system			Belt		
	Direction of revolution			Clockwise viewed from top		
	Revolution (PTO speed)		rpm	3450		
	PTO clutch			Electric		
	Transmission			Hydrostatic transmission		
	Traviling speeds	Forward	km/h (mph)	0 to 9.2 (0 to 5.7)		0 to 10.8 (0 to 6.7)
		Reverse	km/h (mph)	0 to 5.6 (0 to 3.5)		0 to 6.4 (0 to 3.9)
	Brake			External disk type		
	Tires	Front		15 x 6.00 - 8		16 x 6.00 - 8
		Rear		20 x 10.0 - 10		22 x 10.0 - 10
Dimensions	Overall length		mm (in.)	1900 (74.8)		1910 (75.2)
	Overall width (with mower)		mm (in.)	1392 (54.8)		1540 (60.6)
	Overall height		mm (in.)	1305 (51.4)	1310 (51.6)	
	Wheelbase		mm (in.)	1295 (51.0)		
	Treads	Front	mm (in.)	816 (32.1)		
		Rear	mm (in.)	760 (29.9)		755 (29.7)
	Weight (with mower)		kg (lbs.)	270 (595)	282 (622)	300 (661)

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

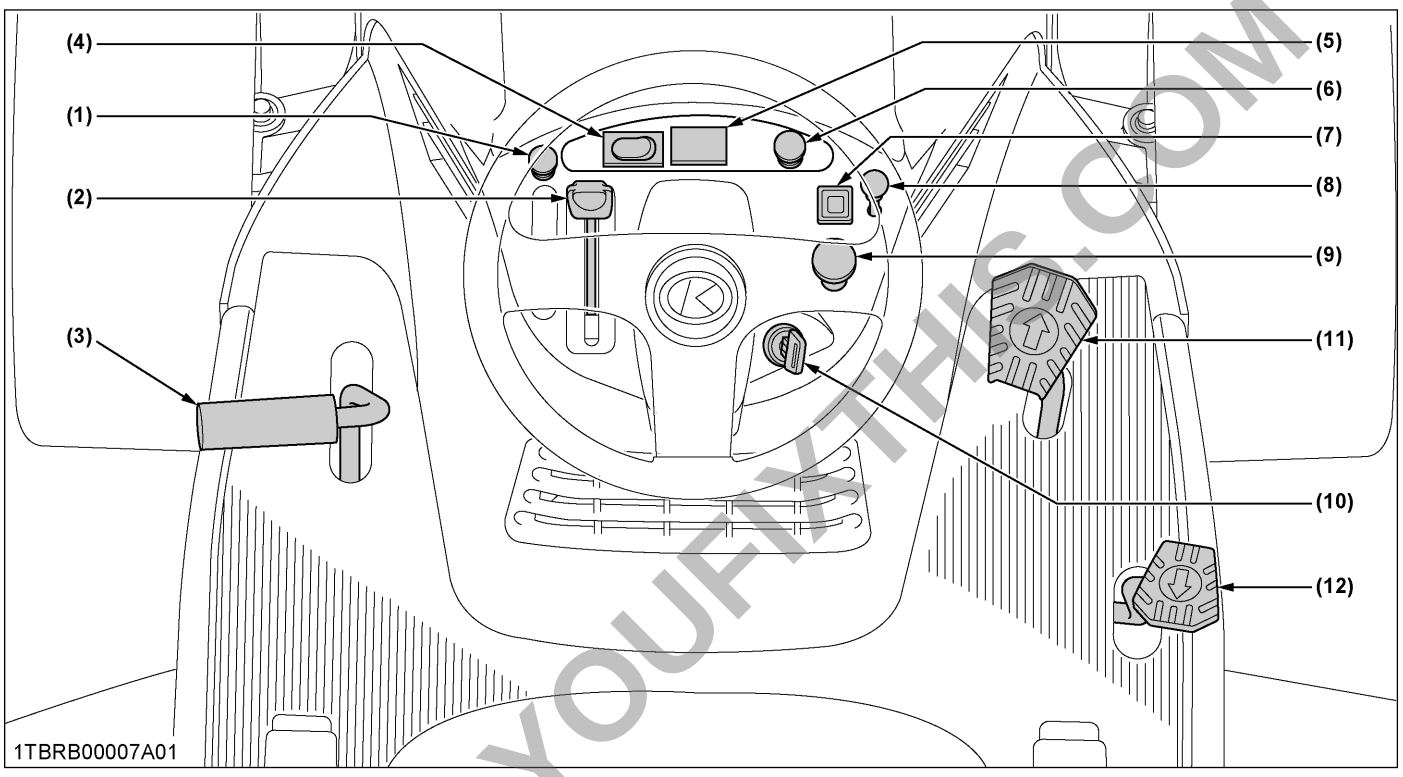
*1 Manufacturer's estimate

*2 The gross power rating for individual gas engine models is labeled in accordance with SAE (Society of Automotive Engineers) code J1940 (Small Engine Power & Torque Rating Procedure), and rating performance has been obtained and corrected in accordance with SAE J1995 (Revision 2002-05). Torque values are derived at 3060 RPM; horsepower values are derived at 3600 RPM. Actual gross engine power will be lower and is affected by, among other things, ambient operating conditions and engine-to-engine variability. Given both the wide array of products on which engines are placed and the variety of environmental issues applicable to operating the equipment, the gas engine will not develop the rated gross power when used in a given piece of power equipment (actual *"onsite"* or net power). This difference is due to a variety of factors including, but not limited to, accessories (air cleaner, exhaust, charging, cooling, carburetor, fuel pump, etc.), application

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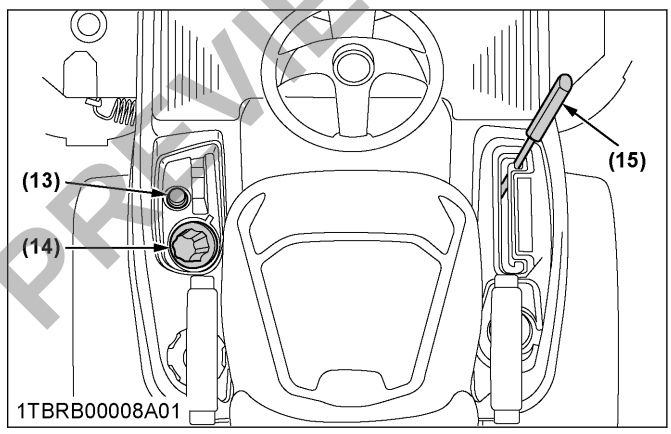
INSTRUMENT PANEL AND CONTROLS

INSTRUMENT PANEL, SWITCHES AND CONTROLS



Illustrated contents

*(1) Choke knob (**T2290KW**, **T2290KWT**)* *23*
(2) Throttle lever *23*
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(4) Light switch *28*
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(9) PTO switch *34*
(10) Key switch *23*
(11) Speed control pedal (forward) *29*
(12) Speed control pedal (rearward) *29*



Illustrated contents

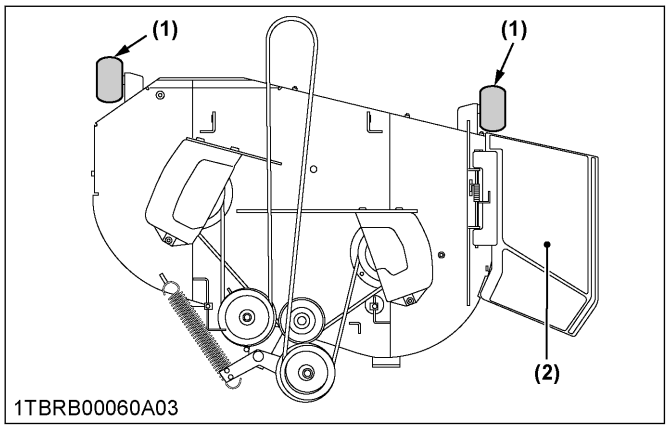
(13) 12 V electrical outlet
(14) Cutting height control dial *32*
(15) Lift lever *28*

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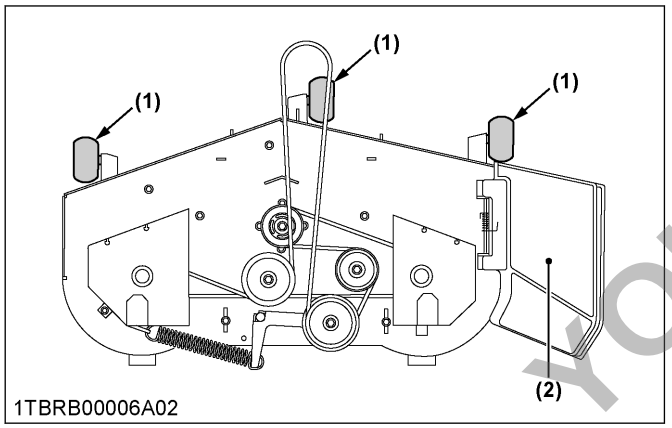
MOWER

RCK42P



(1) Anti-scalp roller (front, bolt shift type) 32
(2) Discharge chute

RCK48P



(1) Anti-scalp roller (front, bolt shift type) 32
(2) Discharge chute

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OPERATING THE MACHINE

OPERATING A NEW MACHINE

How a new machine is operated and maintained will determine the operating life of the machine.
A new machine just off the factory production line has been tested, but the various parts are not accustomed to each other, so care should be taken to operate the machine for the first 50 hours at a slower speed and avoid excessive work or operation until the various parts become *"broken-in"*. The manner in which the machine is handled during the *"breaking-in"* period greatly affects the life of your machine. Therefore, to obtain the maximum performance and the longest operating life of the machine, it is very important to properly break-in your machine. In handling a new machine, the following precautions should be observed.

1. Changing lubricating oil for new machine

The lubricating oil is especially important in the case of a new machine. The various parts are not *"broken-in"* and are not accustomed to each other. Small metal grit may develop during the operation of the machine and this may wear out or damage the parts. Therefore, care should be taken to change the lubricating oil a little earlier than it would ordinarily be required.
Details regarding normal service intervals can be found in a different section.
(See SERVICE INTERVALS on page 36.)

DANGER
To avoid serious injury or death:
- **Do not operate the mower without the discharge chute in the down position.**

WARNING
To avoid serious injury or death:
- **Do not allow anyone other than the driver to ride on the machine.**
- **Do not drive the machine close to the edges of ditches or banks which may collapse under the weight of the machine, especially when the ground is loose or wet.**
- **Slow down before turning.**
- **To avoid tip-over accidents, mow up and down slopes, not across. Avoid sudden starts and stops on slopes. Slow down and use extra caution when changing direction on a slope. Do not use the machine on a steep incline.**
- **Park the machine on a firm and level surface.**
- **Watch where you are going at all times. Watch for and avoid obstacles. Be alert at curbs, near trees, and other obstructions and hidden hazards.**
- **Do not drive the machine on streets or highways. Watch for traffic when you cross roads or operate near roads.**
- **Look to the rear before and when backing. Make sure the area immediately behind you is clear of obstructions or holes, and small children. Use extra caution when a machine is equipped with grass catcher.**
- **Clear the work area of objects which might be picked up and thrown by the blades.**
- **Do not direct the opening of the discharge chute at bystanders or animals. Ejected objects may cause injury. Plan your mowing carefully before starting operation.**
- **Keep bystanders, especially children, and animals away from the mowing area.**
- **Be sure to disengage the PTO and sit on the operator's seat before starting the engine.**

STARTING THE MACHINE

WARNING
To avoid serious injury or death:
- **Read and understand the safe operation section.**
- **Read and understand the safety labels located on the machine.**
- **To avoid the danger of exhaust fume poisoning, do not operate the engine indoors without proper ventilation.**
- **Never start the engine while standing on the ground. Start the engine only from the operator's seat.**

1. Adjust the operator's position.
   - Operator's seat on page 28
2. Start the engine.
   - STARTING THE ENGINE on page 22
3. Select light switch positions.
   - Light switch on page 28
4. Raise the implement.
   - Lift lever on page 28
5. Accelerate the engine.
   - Throttle lever on page 28

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MAINTENANCE

SERVICE INTERVALS

The following servicing tasks should be carried out on the machine at the stated running-time intervals.
T2090BR

No.	Items			Indication hour meter (Hr)														Ref. page	
				25	50	100	150	200	250	300	350	400	450	500	550	600	After since		
1	Air cleaner	Precleaner element	Clean	●	●	●	●	●	●	●	●	●	●	●	●	●	every 25Hr or every 1 year	46	*1
			Replace			●		●		●		●		●		●	every 100Hr or every 1 year	53	
		Air cleaner element	Check	●	●	●	●	●	●	●	●	●	●	●	●	●	every 25Hr or every 1 year	46	*2
			Replace			●		●		●		●		●		●	every 100Hr or every 1 year	53	
2	Brake		Check	◎	●	●	●	●	●	●	●	●	●	●	●	●	every 50Hr	47	*3 *4
3	Tire		Check		●	●	●	●	●	●	●	●	●	●	●	●	every 50Hr	47	
4	Engine oil		Change			●		●		●		●		●		●	every 100Hr or every 1 year	47	
5	Engine oil filter		Replace			●		●		●		●		●		●	every 100Hr or every 1 year	49	
6	Engine shroud		Clean			●		●		●		●		●		●	every 100Hr	49	
7	Spark plug condition and gap		Check			●		●		●		●		●		●	every 100Hr	50	
			Replace														every 1 year	61	
8	Fuel filter		Check			●		●		●		●		●		●	every 100Hr	54	
			Replace			●		●		●		●		●		●	every 100Hr or every 1 year	54	*3
9	Throttle cable		Adjust			●		●		●		●		●		●	every 100Hr	51	
10	Battery condition		Check			●		●		●		●		●		●	every 100Hr	52	
11	Electric clutch		Adjust											●			every 500Hr	58	
12	Combustion chamber		Clean											●			every 500Hr	59	
13	Engine valve clearance		Check														every 1 year	61	*3 *5
14	Fuel line		Check														every 1 year	60	*6
			Replace														every 4 years	61	*3
15	Fuse		Replace														Service as required	61	
16	Light bulb		Replace															61	
17	Mower blade		Check															61	

(Continued)

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