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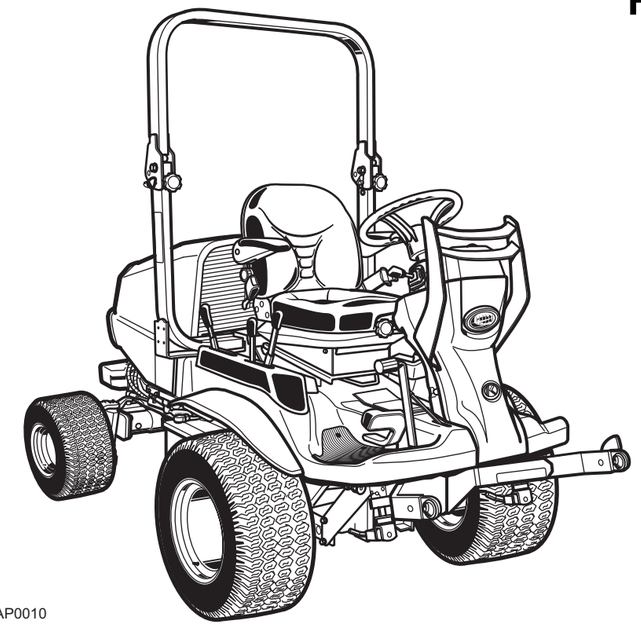
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F2890.F3690

OPERATOR'S MANUAL

KUBOTA
FRONT MOWER

MODELS F2890
F3690



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READ AND SAVE THIS MANUAL

PRINTED IN JAPAN

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Kubota

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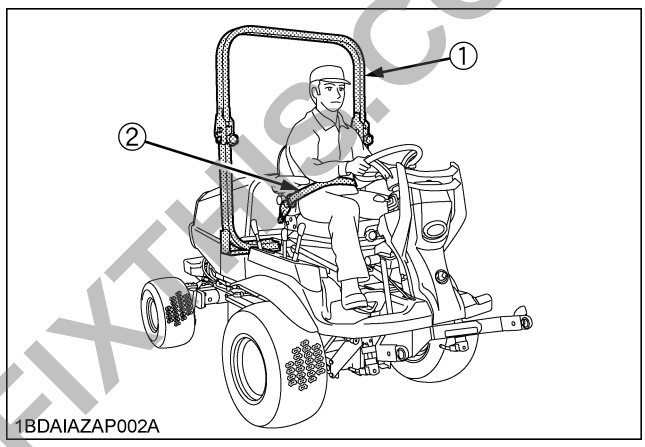
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⚠ SAFE OPERATION

Careful operation is your best insurance against an accident. Read and understand this section carefully before operation. All operators, no matter how experienced they may be, should read this and other related manuals before operation of the machine or any implement attached to it. It is the owner's obligation to instruct all operators in safe operation.
This cutting machine is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

1. BEFORE OPERATING

1. Know your equipment and its limitations. Read, understand and follow all instructions in this manual before attempting to start and operate the machine.
2. Pay special attention to the safety labels on the machine and mower.
3. KUBOTA recommends the use of a Roll Over Protective Structures (ROPS) and seat belt in almost all applications. This combination will reduce the risk of serious injury or death, should the machine be upset.
   The machine is equipped with a foldable ROPS, which may be temporarily folded down only when absolutely necessary for areas with height constraints.
   (There is no operator protection provided by the ROPS in the folded position. For operator safety the ROPS should be placed in the upright and locked position and the seat belt fastened for all other operations.)
   If the ROPS is loosened or removed for any reason, make sure that all parts are reinstalled correctly before operating the machine.
   Never modify or repair a ROPS because welding, bending, drilling, grinding, or cutting may weaken the structure.
   A damaged ROPS structure must be replaced, not repaired or revised.
   If any structural member of the ROPS is damaged, replace the entire structure at your local KUBOTA Dealer.



(1) ROPS
(2) Seat belt

4. Always use the seat belt when the ROPS is upright. Do not use the seat belt without a ROPS being upright. Check the seat belt regularly and replace if frayed or damaged.
5. 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. Use a spark arrester where required. Also keep the engine and muffler clean all the time. Replace the muffler if it has a fault.
6. Never wear loose, torn, or bulky clothing. It may catch on moving parts or controls, leading to the risk of accident. Safety boots or shoes, eye and hearing protection, gloves, dust mask, etc. are recommended.
7. Do not wear radio or music headphones while operating the machine.
   Safe operation requires your full attention.
8. Carefully check the vicinity before operating machine or any implement attached to it. Clear the work area of objects (wires, rocks, etc.) that might be picked up and thrown. Check for overhead clearance which may interfere with a ROPS.
9. Do not operate machine or any implement attached to it while under the influence of alcohol, drugs, or other substances or while fatigued.
10. Check brakes, and other mechanical parts for faulty adjustment and wear. Replace worn or damaged parts promptly. Check the tightness of all nuts and bolts regularly. (For further details, see "MAINTENANCE" section.)

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SPECIFICATIONS

	Model			F2890	F3690
Engine	Model			D1105	V1505
	Engine gross power (SAE) *1		kW (HP)	20.6 (28)	26.5 (36)
	Type			Indirect Injection. Vertical water - cooled, 4cycle diesel	
	Number of cylinders			3	4
	Bore and stroke		mm	78 x 78.4	
	Total displacement		cm^3	1123	1498
	Rated revolution		rpm	3000	
	Low idling revolution		rpm	1300 to 1400	
	Fuel			Diesel fuel No.1 (S-15) [below -10℃] Diesel fuel No.2 (S-15)	
	Starter			Electric starter with battery, glow plug, 12 V, 1.4 kW	
	Lubrication			Forced lubrication by gear pump	
	Cooling			Liquid with pressurized radiator	
	Battery			12 V, RC: 133 min, CCA: 582 A	
Capacities	Fuel tank		L	61	
	Engine crankcase (with filter) *3		L	3.5	5.0
	Engine coolant		L	4.6	
	Recovery tank		L	0.6	
	Transmission case		L	14	
	Rear axle differential case		L	1.5	
	Rear axle gear case		L	0.5	
Dimensions	Overall length		mm	2450	
	Overall width		mm	1370	
	Overall height	Without ROPS	mm	1350	
		With ROPS	mm	1985	
	Wheelbase		mm	1300	
	Min. ground clearance		mm	185	
	Tread	Front	mm	1063	
		Rear	mm	1020	
Weight (W/O mower deck)			kg	770	788

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OPERATING THE ENGINE

WARNING

To avoid serious injury:

- **Read and understand "SAFE OPERATION" in the front of this manual.**
- **Read and understand the danger, warning and caution labels located on the machine.**
- **To avoid danger of exhaust fume poisoning, do not operate the engine in a closed building without proper ventilation.**
- **Never start the engine while standing on the ground. Start the engine only from the operator's seat.**
- **Make it a rule to set all shift levers to the "NEUTRAL" positions and to place the PTO lever in "OFF" position before starting the engine.**

IMPORTANT :

- Do not use starting fluid or ether.
- To protect the battery and the starter, make sure that the starter is not continuously turned for more than 30 seconds.

STARTING THE ENGINE

1. Sit on the operator's seat.

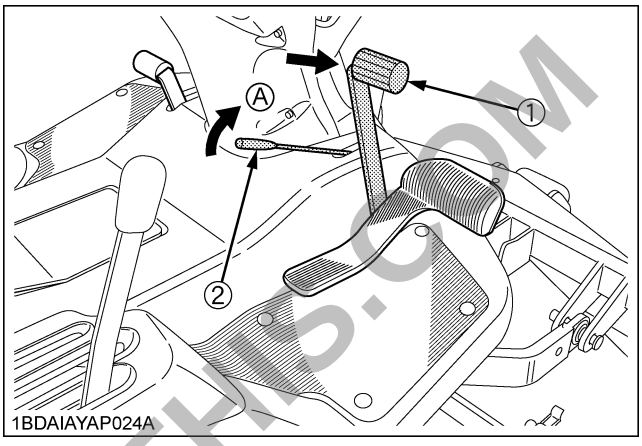
2. Apply the parking brake.

To apply the parking brake:

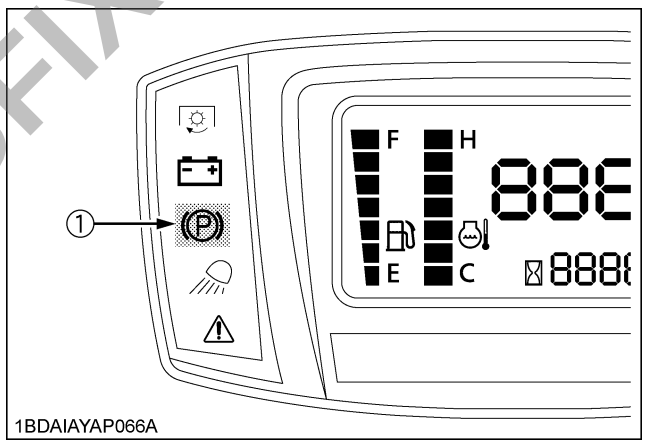
Depress the brake pedal firmly and hold in position. Pull and hold the parking brake lever, and release the brake pedal.

To release the parking brake:

Depress the brake pedal and release slowly.



(1) Brake pedal *(A) "PARKING"*
(2) Parking brake lever



(1) Parking brake warning indicator

NOTE :

- It is recommended that the operator practice engaging and disengaging the parking brake on a flat surface without the engine running before operating the machine for the first time.

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MAINTENANCE

SERVICE INTERVALS

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

No.	Items		Indication on hour meter (Hr)												Interval	Ref. page	
			50	100	150	200	250	300	350	400	450	500	550	600			
1	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	41	
2	OPC system	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	42	
3	Greasing	-	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	42	
4	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	44	
5	Oiling	-	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	44	
6	Battery condition	Check		○		○		○		○		○		○	every 100 Hr	45	
7	Air cleaner element	Clean		○		○		○		○		○		○	every 100 Hr	46	*1
		Replace													every 1 year	55	
8	Engine oil	Change	◎			○				○				○	every 200 Hr	49	
9	Fan belt	Adjust		○		○		○		○		○		○	every 100 Hr	49	*2
10	Brake pedal	Adjust		○		○		○		○		○		○	every 100 Hr	48	
11	Fuel filter element	Check		○		○		○		○		○		○	every 100 Hr	47	
		Replace								○					every 400 Hr	55	*2
12	Engine oil filter	Replace	◎			○				○				○	every 200 Hr	50	
13	Transmission fluid	Change								○					every 400 Hr	52	
14	Transmission oil filter	Replace	◎			○				○				○	every 200 Hr	51	
15	Transmission strainer	Clean								○					every 400 Hr	53	
16	Rear axle differential case fluid	Change								○					every 400 Hr	54	
17	Rear axle gear case (RH & LH) fluid	Change								○					every 400 Hr	54	
18	Radiator hose and clamp	Check				○				○				○	every 200 Hr	50	
		Replace													every 2 years	57	*2

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MOWER MOUNTING

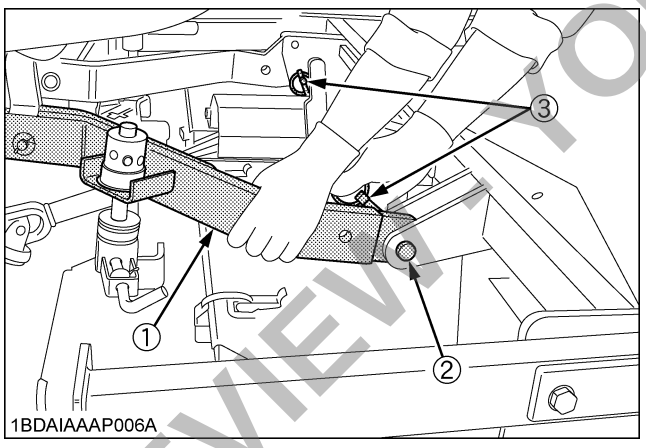
MOUNTING THE MOWER

WARNING

To avoid serious injury:

- **Before mounting the mower deck, read and understand the use of the lift link lowering speed control knob.**
  (See "Lift Link Lowering Speed Control Knob" in "OPERATING THE MACHINE" section in the operator's manual of the machine.)
- **Place the PTO lever in the "DISENGAGE" position.**
- **Place the High-Low gear shift lever in the "NEUTRAL" position.**
- **The mower links (left hand, right hand) are spring-loaded. Have an assistant hold the arm in position when mounting the mower deck.**

1. Move the mower deck under the mower links and place the hydraulic lift lever in the "DOWN" position.
2. Attach the front end of the mower links to the mower deck with clevis pins and set pins.



(1) Mower link
(2) Set pin
(3) Clevis pin

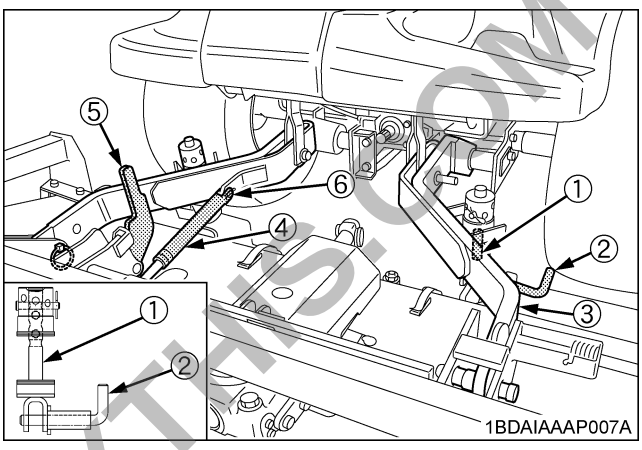
3. Start the engine, raise the mower deck, lock the lift link lowering speed control knob and shut off the engine.
4. Install the lift rods to the mower deck with lock pins and lower the mower deck on the ground.

[RCK72P-F39 / RCK72R-F36]

5. Attach the gas spring to the mower link with the clevis pin and the rue ring cotter.

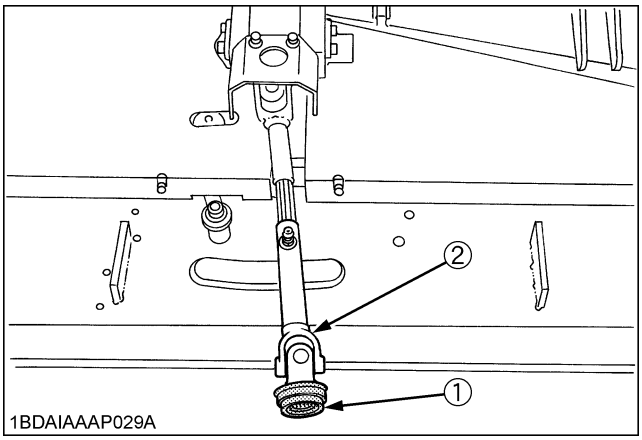
NOTE :

- When operating the mower, make sure the tilt lever is unlocked.
- For tilting up the mower, see "MOWER TILT UP" section in the operator's manual of the mower.



(1) Lift rod
(2) Lock pin
(3) Mower link
(4) Gas spring
(5) Tilt lever ("UNLOCKED" position)
(6) Rue ring cotter

6. Pull back the coupler of the universal joint.
   Push the universal joint onto the PTO shaft until the coupler locks.
   Slide the universal joint backward and forward to check that the universal joint is locked securely.



(1) Coupler
(2) Universal joint

IMPORTANT :

- Finally pull the universal joint to see if it is locked tight in position.

After mounting the mower deck, adjust the lift link lowering speed.
(See "CONTROLS" in "INSTRUMENT PANEL AND CONTROLS" section.)

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TROUBLESHOOTING

ENGINE TROUBLESHOOTING

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

Trouble		Cause	Countermeasure
Engine is difficult to start or won't start.		● No fuel flow	● Check the fuel tank and the fuel filter. Replace the filter if necessary.
		● Air or water is in the fuel system.	● Check to see if the fuel line coupler bolt and nut are tight. ● Bleed the fuel system. (See "Bleeding Fuel System" as required in "PERIODIC SERVICE" section.)
		● In winter, oil viscosity increases, and engine revolution is slow.	● Use oils of different viscosities, depending on ambient temperatures. ● Use the engine block heater. (Optional)
		● Battery becomes weak and the engine does not turn over quick enough.	● Clean battery cables & 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.
Insufficient engine power		● Insufficient or dirty fuel ● The air cleaner is clogged.	● Check the fuel system. ● Clean or replace the element.
Engine stops suddenly.		● Insufficient fuel	● Refuel. ● Bleed the fuel system if necessary.
Exhaust fumes are colored.	Black	● Fuel quality is poor. ● Too much oil ● The air cleaner is clogged.	● Change the fuel and fuel filter. ● Check the proper amount of oil. ● Clean or replace the element.
	Blue white	● The inside of exhaust muffler is dumped with fuel. ● Injection nozzle trouble ● Fuel quality is poor.	● Heat the muffler by applying load to the engine. ● Check the injection nozzle. ● Change the fuel and fuel filter.
Engine overheats.		● Engine overloaded	● Shift to lower gear or reduce load.
		● Low coolant level	● Fill cooling system to the correct level; check the radiator and hoses for loose connections or leaks.
		● Loose or defective fan belt	● Adjust or replace fan belt.
		● Dirty radiator screen or bonnet screen	● Remove all trash.
		● Coolant flow route corroded	● Flush cooling system.

If you have any questions, contact your local KUBOTA Dealer.

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