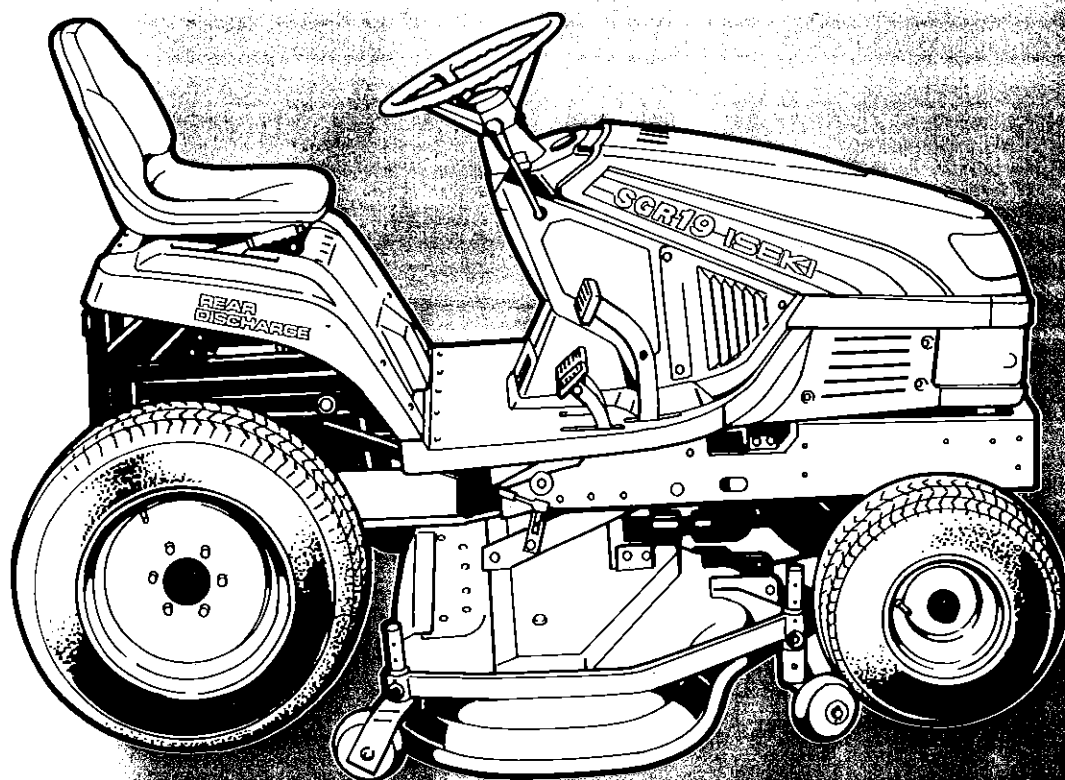


ISEKI LAWN MOWERS



Operation Manual

LAWN MOWERS:

SGR17, 19 & 22

MOWER DECKS:

SCM48 & SCM54



ISEKI

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9.10. When removing a tyre, chock other tyres and support the lawn mower securely. When installing tyres, be sure to tighten the wheel nuts to the specified torque. Loose nuts may cause serious accidents.

9.11. When servicing the mower blades, pay sufficient care so your hands or fingers are not cut by them. As the three blades are driven by one belt, turning one blade will cause the other blades to turn.

9.12. Never step on the mower deck, or the mower deck may be damaged or deformed, which may lead to breakdown or accidents.

9.13. A first aid kit and a fire extinguisher should be kept in a place always in instant access.

9.14. Avoid high-pressure fluids. Escaping fluid under pressure can penetrate the skin and cause serious injury, so keep hands and body away from pin holes and nozzles ejecting such fluids. Be sure to consult your dealer about the hydraulic and fuel injection system troubles.

9.15. If any hydraulic fluid is injected accidentally into the skin, it must be removed within a few hours by a doctor familiar with this type of injury.

9.16. Never allow grass or leaves to accumulate around heated parts such as the engine and the muffler, or this may cause a fire.

9.17. Be sure to reinstall the removed parts in place. Never attempt to start the engine with any parts removed.

9.18. Never attempt unauthorized modification of the lawn mower as this could be very hazardous. Damaged or worn parts should be replaced with ISEKI genuine spare parts. Unauthorized parts may cause breakdown of the lawn mower, accidents, and ISEKI warranty to expire.

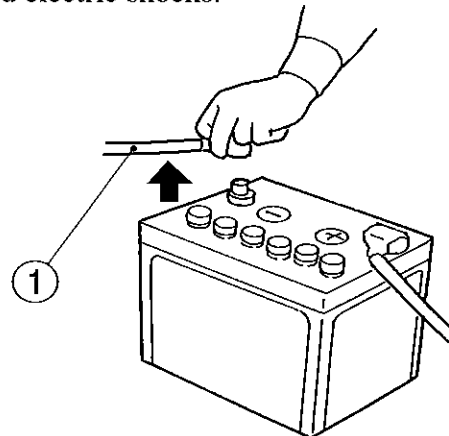
		Parts code	Punched ID
SCM54	Left & centre	8659-306-021-00	Ⓢ8659G
	Right	8659-306-022-00	Ⓢ8659H
SCM48	Left & centre	8661-306-021-00	Ⓢ8661G
	Right	8661-306-022-00	Ⓢ8661H

9.19. Keep all nuts, bolts and screws tight to be sure that the equipment is in safe working condition.

10. ELECTRICAL SYSTEM

10.1. Before servicing the electrical system, be sure to stop the engine, lower the mower deck on the ground, draw the starter key, shift the PTO lever to the OFF position, and apply parking brakes.

10.2. Before inspecting the connections of the electrical system, be sure to disconnect the negative terminal of the battery to avoid short circuits and electric shocks.



(1) Negative cord

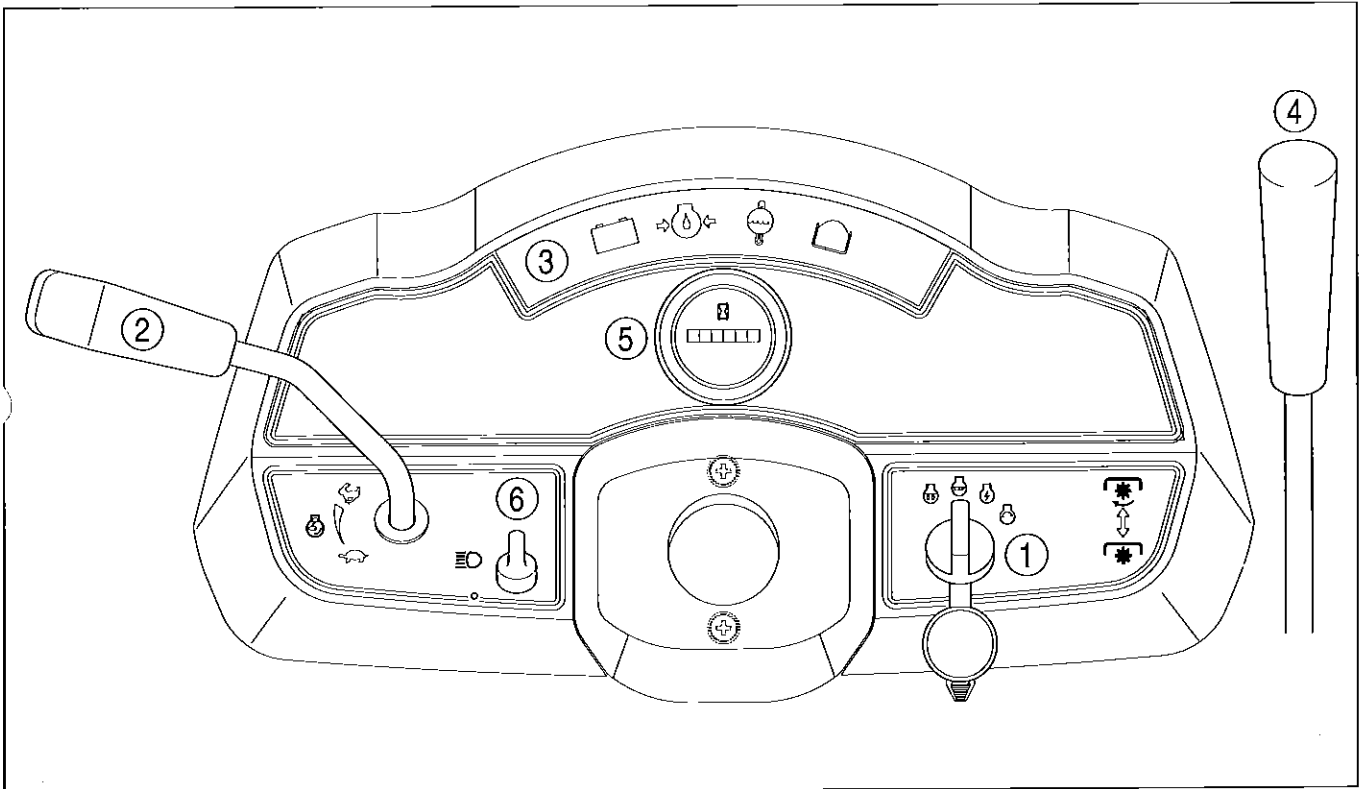
10.3. Loose connections, terminals, and damaged wiring should be repaired as soon as possible. They will not only deteriorate the performance of electric parts but also may cause short circuits, leading to fires.

10.4. The surroundings of the wiring and the battery should be kept clean, or accumulated grass or chaff may catch fire.

10.5. Never smoke nor allow any open flames nearby or sparks, which may be caused by short circuits during servicing the battery. The battery generates explosive gases (hydrogen and oxygen) during charging, so the battery should be





V. CONTROLS AND METERS

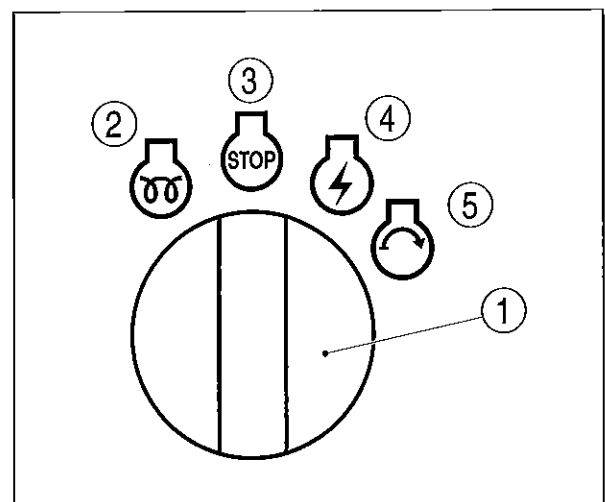
1. CONTROL PANEL



- | | |
|------------------------|-------------------------------|
| (1) Starter switch | (4) PTO lever |
| (2) Throttle lever | (5) Hourmeter |
| (3) Monitor lamp array | (6) Headlight switch (Option) |

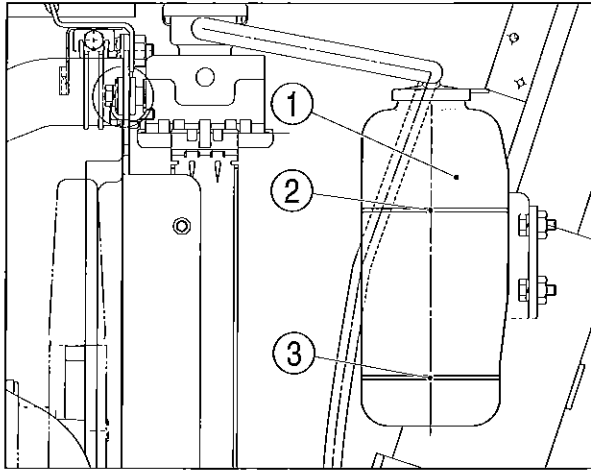
1.1. STARTER SWITCH

-  : Glow position : the engine is pre-heated in this position.
-  : OFF position: the engine stops and all electric circuits are turned off.
-  : ON position: the key turns to this position after starting the engine and remains there during operation.
-  : START position: the starter motor is switched on in this position.



- | | |
|--------------------|--------------------|
| (1) Starter switch | (4) ON position |
| (2) Glow position | (5) START position |
| (3) OFF position | |

- b. Make sure that the coolant level in the reserve tank is between the upper and lower limits. If the level is lower than the lower limit, replenish the reserve tank with fresh clean soft water.



(1) Reserve tank
(2) Upper limit
(3) Lower limit



Caution:

Tighten the radiator cap securely, or hot water may gush out through the cap, which is very dangerous.

4. FUEL LEVEL

Check to see the fuel level with the fuel gauge in the centre of the fender panel.

The letter "F" shows the upper limit.
The letter "E" shows the lower limit.

Fuel replenishment should be done before operation if required.

Fuel capacity:	18.5 litres (4.07 imp. gal.)
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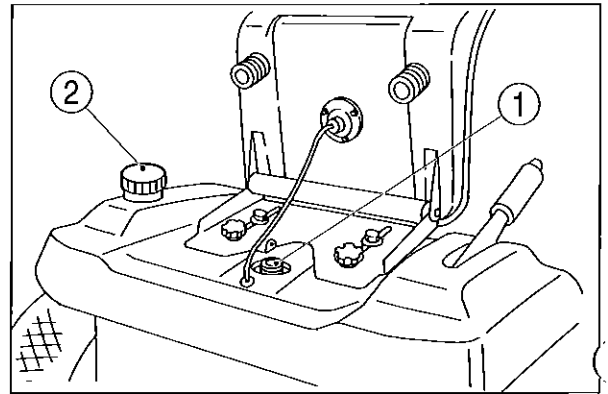


Danger:

When replenishing fuel, abide by the following items, or a fire may be caused.

- *Before replenishing with fuel, be sure to stop the engine and wait until the engine and heated parts cool down sufficiently.*

- *Keep sparks, open flames, etc. away from the fuel tank.*
- *No smoking !*
- *Fuel level should not exceed the bottom of the fuel filter (screen) of the filler.*
- *Spilt fuel should be wiped away immediately.*



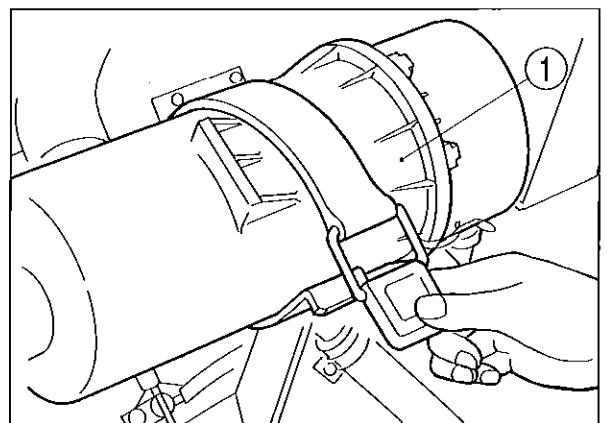
(1) Fuel gauge
(2) Fuel filler

Important:

- *As soon as the fuel gauge shows "E", replenish with fuel. Never attempt to keep on operating with oil level lower than E, or air may be trapped in the fuel system, which will cause hard engine starting and poor engine power.*
- *Use diesel fuel. Never use heavy oil or gasoline (petrol). Use of fuel other than diesel fuel will cause fuel injection pump trouble.*

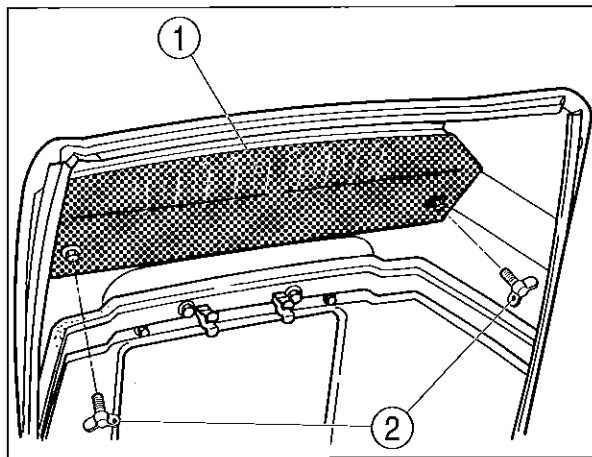
5. AIR-CLEANER

- a. The air-cleaner is held on the engine with the rubber band. Untie this band and pick up the air-cleaner by hand.



(1) Air-cleaner

VIII. MAINTENANCE



(1) Upper net

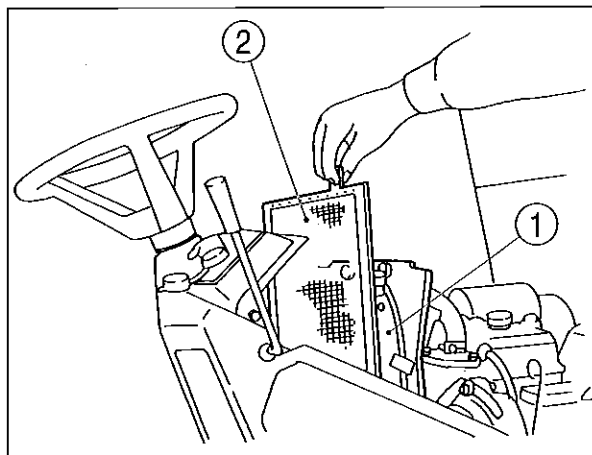
(2) Wing bolts

- c. The clogged radiator fins should be cleaned by applying compressed air or water from both sides alternatively.
- d. Re-install the radiator screen.

Important:

- Avoid using excessively compressed air or water, which may deform the cooling fan blades.
- Avoid applying water directly to the wiring and electric apparatus.
- After washing the radiator using water from a tap, let it dry by itself.

22. CLEANING OF THE RADIATOR



(1) Radiator

(2) Radiator screen

Important:

- The radiator screen and radiator clogged with dust or dirt causes overheating of the engine due to deteriorated cooling efficiency of the radiator. The radiator and radiator screen should be checked for clogging everyday before operation.
- When mowing dead grass or operating under extremely dusty conditions, check the radiator screen and radiator several times a day to avoid clogging.

The radiator is located behind the engine and the radiator screen is located behind the radiator.

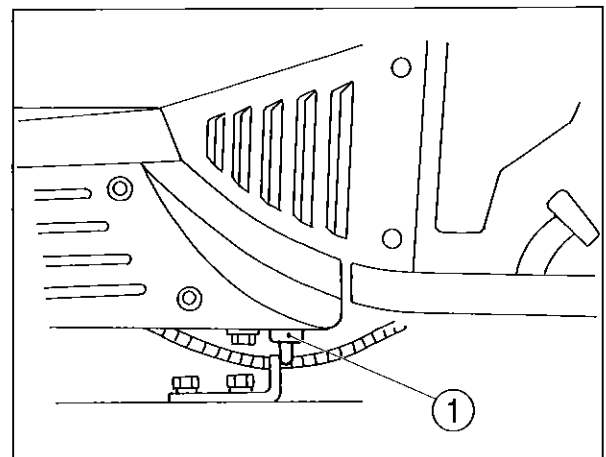
- a. Draw out the radiator screen upwards.
- b. Dust off the radiator screen with a soft brush.

23. COOLANT REPLACEMENT



Warning:

Never attempt to remove the radiator cap during or just after operation, or pressurized vapor and hot water will gush out, which may cause burns. So wait until the engine cools down sufficiently.



(1) Drain plug

The drain plug of the engine coolant is located on the bottom of the left side of the engine.

- a. Place a coolant receiver under the drain plug.
- b. Remove the radiator cap and the drain plug to let all coolant drain out of the radiator and engine cylinder block.

Troubles	Presumable causes	Remedies
7. ELECTRICAL ACCESSORIES		
<ul style="list-style-type: none"> • Battery is not charged. 	<ul style="list-style-type: none"> • Melted slow-blow fuse • Defective wiring • Loose fan belt • Defective battery • Defective alternator • Defective regulator 	<ul style="list-style-type: none"> • Locate and repair cause of trouble, and install a new slow-blow fuse. • Check wiring for loose terminals and earth, and short circuit. Repair defective parts. • Tighten belt as specified. • Correct loose terminals, corroded parts, and electrolyte level. Otherwise, install a new battery. • Consult your dealers. • Consult your dealers.
<ul style="list-style-type: none"> • Head lamps are dim. 	<ul style="list-style-type: none"> • Low battery capacity • Defective contact of switch or wiring 	<ul style="list-style-type: none"> • Charge battery. • Clean contact points and earthing point, and tighten them.
<ul style="list-style-type: none"> • Head lamps do not light up. 	<ul style="list-style-type: none"> • Burnt-out bulb • Blown fuse • Defective contact 	<ul style="list-style-type: none"> • Replace the burnt-out bulb. • Check the wiring and replace the blown fuse with a new one. • Clean each contact and tighten securely.
<ul style="list-style-type: none"> • Monitor lamps do not light up. 	<ul style="list-style-type: none"> • Defective contact 	<ul style="list-style-type: none"> • Re-connect connector.
<ul style="list-style-type: none"> • Fuel pump does not work. 	<ul style="list-style-type: none"> • Blown fuse • Defective fuel pump 	<ul style="list-style-type: none"> • Check the wiring and replace the blown fuse with a new one. • Consult your dealers.
<ul style="list-style-type: none"> • Fuel cut-off solenoid does not work. 	<ul style="list-style-type: none"> • Blown fuse • Defective solenoid 	<ul style="list-style-type: none"> • Check the wiring and replace the blown fuse with a new one. • Consult your dealers.

IV. INSPECTION AND MAINTENANCE OF MAJOR PARTS



Caution:

- When servicing the lawn mower, place it on level, hard ground.
- Stop the engine and remove the starter key.
- Apply the parking brake securely.
- Push down the front half (↓) of the lift switch to lower the mower to the ground.
- Shift the PTO lever to the STOP position (⊠).
- Service the lawn mower after the engine has cooled down sufficiently.

With these items in mind, confirm the safety conditions for maintenance operation without fail ahead of time.

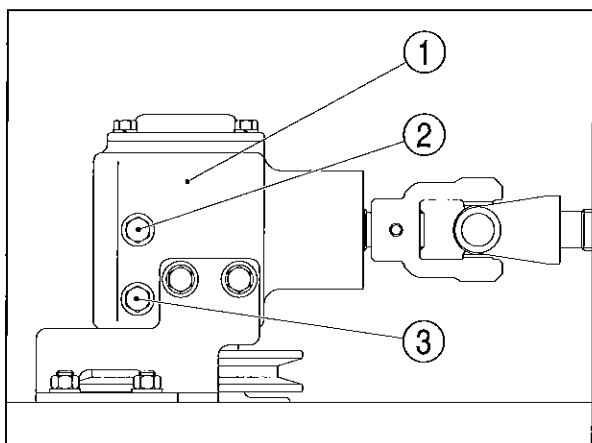
1. INSPECTION AND REPLACEMENT OF GEAR CASE OIL

- Inspection of oil level in the bevel gear case

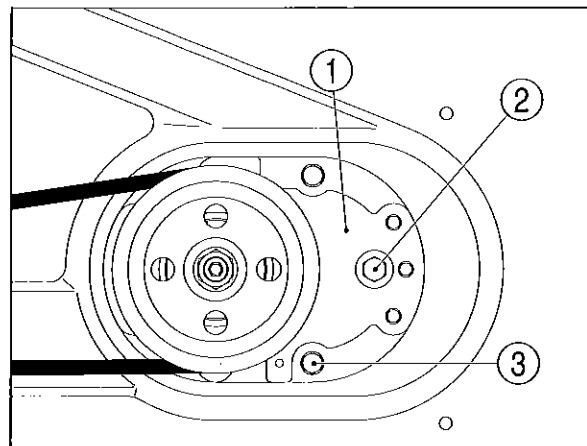
Important:

Check the oil level after every 50 hours of operation.

- a. Bevel gear case: Remove the level plug located on the right side wall of the gear case.
Counter gear case: Remove the counter gear case from the mower deck and remove the drain plug. Tilt the gear case by 90 degrees.



(1) Gear case (3) Drain plug
(2) Level plug



(1) Counter gear case (3) Bolts
(2) Drain plug

- b. Check to see if a small amount of oil overflows through the plug hole. If so, the level is normal. If not, replenish with gear oil SAE80 through the plug hole using an oil pitcher or the like.

Oil	Gear oil SAE80	
Capacity	Bevel gear case	0.4 liter (0.09 Imp. gal.)
	Counter gear case	0.11 liter (0.025 Imp. gal.)

Important:

Before replacing the level plug, be sure to wrap the threads with sealing tape without fail, or oil may leak through the plug.

- Replacement of oil

Important:

Replace oil after the initial 50 hours of operation and then after every 200 hours of operation.

- a. Remove the mower blade which is attached to the shaft of the gear case referring to the instructions for the replacement of the mower blades (p. 68).
- b. Remove both belt covers (LH and RH) by loosening the tightening nuts (Refer to page 67.).

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