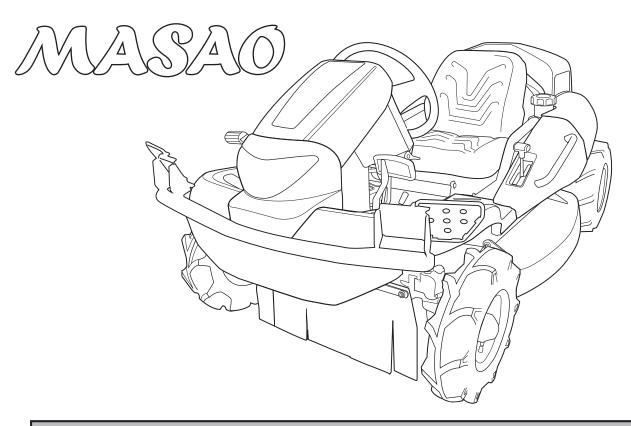


Ride-on Brushcutter

CMX2402

Operator's Manual



AWARNING!

Read this manual completely before operating or maintaining this machine. Failure to follow safety precautions could result in serious injury or death. Keep this manual for future reference by you and by all those who operate and maintain this machine.

5362 5351 004

Notice to Users and Maintenance Personnel

Thank you for purchasing this machine.

This manual provides information needed for safe and effective use of this machine to those who operate or maintain this machine. Make sure to read and understand the manual thoroughly before operating this machine. Also make sure to read the separate engine manual.

AWARNING!

- This machine can be very dangerous if the safety precautions in this manual and on the labels attached to this machine are not followed. Read and understand this manual and safety labels on the machine thoroughly before using this machine. Always follow the instructions and safety precautions, or serious injury or death could result.
- This machine should only be used for its intended purpose: cutting grass and bushes. Any other use could be dangerous.
- This machine may not be operated on public road or what is considered to be public road. It is the sole responsibility of the operator to consult the local regulations.
- Do not modify this machine, or do not operate this machine with the safety covers removed or open. A serious accident could result.

ACAUTION!

• Store this manual in a safe, accessible place for easy reference.

Notice to Owner

ACAUTION!

• Be sure that everyone who uses this machine, including those who rent or lease this machine, receives a copy of this Operator's Manual and understands the importance of reading and following the information in this manual.

Warning Terms Used in this Manual

In this manual, the following four warning terms are used to signal the four levels of hazard (or seriousness of possible accidents). Read and understand what they mean and always follow the instructions in this manual.

Warning Term	Definition
▲ DANGER!	Indicates an imminently hazardous situation which will result in death or serious injury if the user does not follow the procedures or the instructions.
▲ WARNING!	Indicates a potentially hazardous situation which could result in death or serious injury if the user does not follow the procedures or the instructions.
▲ CAUTION!	Indicates a potentially hazardous situation which could result in minor to moderate injury or damage to the machine if the user does not follow the procedures or the instructions.
NOTE	Indicates important information which needs particular attention.

Warranty and After-Sales Service

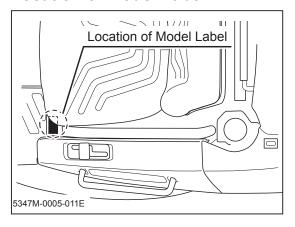
Warranty

CHIKUSUI CANYCOM, INC. guarantees this product, based on the terms of warranty.

After-Sales Service

Consult your local CANYCOM dealer or our company's sales department regarding service orders or any questions or problems that may arise when using this machine. Please make sure to have the product name, serial number, and the make and type of the engine handy at the time of contact. The model and serial numbers can be found on the model label as shown below, and the make and type of the engine can be found in Chapter 3 "Specifications" of this manual (Page15).

Location of Model Label



Model Label



Availability of Spare Parts

The replacement or repair parts for this product shall remain available for nine years after the production of this type of machine is discontinued.

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Noise and Vibration Levels

Noise and vibration levels are stated in the end of this manual.

Warranty

Warranty Certificate is attached at the end of this manual.

* Have the warranty certificate signed after you have received and fully understood the instructions for handling this machine and received the receipt.

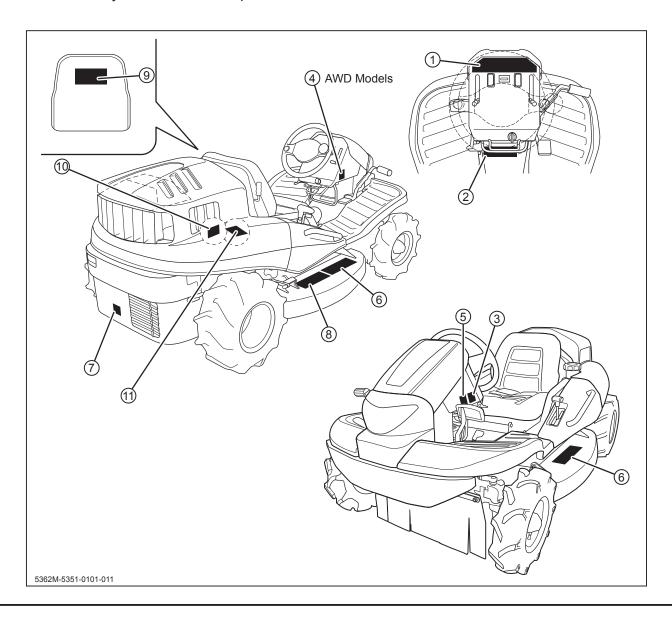
Appendix

- Engine Manual
- * Be sure to read and understand it together with this manual .

Safety Labels

The safety labels shown on the next page are attached to the machine. See the illustration below for the location and the illustration on the next page for the content of each label on the machine.

- Locate all the warning labels attached to this machine. Read and follow the instructions and precautions in them. Failure to do so could result in serious injury or death to the operator or bystanders.
- Keep the labels clean and legible. Do not use solvents or gasoline to clean the labels.
- Replace these labels immediately if they have been removed, have fallen off or become illegible. Use the part number, on the label or shown in this manual, to order a replacement label from your CANYCOM representative.



(1) 5347 5109 100

(2) 5347 5114 100

- Engage cutting blade clutch only when cutting. Keep it disengaged all the other tin Embrayez Ia lame uniquement pour tondre, aissez-la débrayée le reste du temps. Schalten Sie die Mähwerkskupplung nur ein, wenn Sie mähen. Lassen Sie diese ausgeschaltet wenn das Mähen nicht erforderlich ist!
- ausgeschaltet wenn das Mähen nicht errordenich isu Innestate la lama solo in fase di taglio. In tutti gli altri casi, la lama non deve essere

 \times **Head lamp**

⚠ CAUTION/ATTENTION/VORSICHT/ATTENZIONE

- Do not hold the drive lever and pres the brake pedal at the same time. Use [L] mode when mowing. Safety switch: engine stops when not seated. Betätigen Sie nicht den Fahrantrieb (Hebel oder Pedal) gleichzeitig.
 L[J Modus zum Mähen verwenden.
 Sicherheitsschalter. Motor stoppt wenn Fahrer nicht aufsitzt.
 Non spingete la leva di avanzamento e premete il pedale del freno contemporaneamente.
 Usare la modalità (L) durante le operazioni di sfalcio.
- not seated. Ne prenez pas en main le levier d'avancement en même temps que vous utilisez la pédale de frein. Utilisez le mode (L) au cours de la tente.
 - operazioni di sfalcio.
 Interruttore di sicurezza: il motore si arresta nel momento in cui l'operatore non è seduto.



(3) 5332 5121 000



- Juse 2M/D mode under normal condition.

 Stop before shifting between 2WD and AWD modes.

 Juliasez le mode 2WD pour des conditions normales.

 Arrêtez-vous avant de changer de mode: 2WD ou AWD.

 Nutzen Sie im normalen Einsatz den 2WD Antrièle.

 Bringen Sie die Maschine zum Stillstand bevor Sie zwischen 2WD und AWD Antrieb wechseln.

 In condizion di normale utilizzo usate solo la trazione a 2WD.

 a AWD fermatevi.

(5) 5332 5128 000



Interrupteur de sécurité: le moteur s'arrête lorsque l'opérateur n'est

(6) 5321 5116 000



(7) 5305 5326 000



(8) 5332 5127 000

- When a blade is broken, replace it immediately. Always replace blade pins and wave washers also. Variation may could be pins and wave washers also. Variation may could pind pins and wave washers also. Variation may could pind pins a crack or is deformed, contact your CANYCOM representative to have it replaced limit, has a crack or is deformed, contact your CANYCOM representative to have it replaced immediately. Blade sits year immediately. Blade sits year interest to the blade sits year that hades, to other or pins and untangle. Damega due to whether any occur. Always were third, protecting glores. Always were third protecting glores or blade sits year year blade. Blades or blade sits year year become sharp due to wear.

WARNING/AVERTISSEMENT/WARNUNG/AVERTES
L'oraçuine laine case, la rimplace de laine sage la rimplace diatement. Il fluit systémaliquement remplace les laines par paireis. Remplace par paireis, remplac

(10) 87519-ZCP-000(CE)



(10) 87516-ZCN-000(AU)

▲ WARNING!

Gasoline is highly flammable and explosive. Turn engine off and let cool before refueling.

The engine emits toxic carbon monoxide.

Do not run in an enclosed area. Read Owner's Manual before operation.

(11) 3667 5063 000



(9) 5347 5125 000

△ WARNING/AVERTISSEMENT/WARNUNG/AVVERTENZA

- Neps fire away when refueling. Always stop engine before refueling.

 Fill up to the upper limit. Start engine in a well verillated place.

 Check holes, diches and obstacles before traveling or cutting,

 10 not use the machine on an incline steeper than the
 gradeability angle (25(AWD)/15(2WD) degrees).

 10 not also we persons to come near the machine when travelingor cutting. Do not start, turn, accelerate or stop sudderly, Driver

 Nicht in der Nähe von Feuer betanken. Schalten Sie immer den Motor

 an bevor Sie neu betanken. Befüllen Sie nur bis zur maximalen

 Füllnenge, Starten Sie den Motor nur in gut betifiteter Umgebung,

 10 berprüfen Sie de Arbeitsläche auf Löcher, Aste, Unbeerbielen und

 andere Hindernisse bevor Sie Mäharbeiten verinchten oder die Fahrt

 mitsel (25(AWD)/15(ZWD) Grad,

 10 berprüfen Sie immer de Scherheit Ihrer Umgebung wen Sie mit der

 Maschine Mäharbeiten verrichten oder fahren. Unterlassen Sie schnelles

 Maschhei Mäharbeiten verrichten oder fahren. Unterlassen Sie schnelles

 Starten, schnelle Lenkeinschläge, abnutges Gas geben oder abnyties

 Starten, schnelle Lenkeinschläge, abnutges Gas geben oder abnyties

 15 4 5125 000

 Normal wender verbarben in währen.

 15 4 7 5125 000

 Ne pas willseit a machine sur une pente supérieure à angle de pente franchissatie 25(AWD)/15(ZWD) degres.

 Ne pas willseit a machine sur une pente supérieure à angle de pente franchissatie 25(AWD)/15(ZWD) degres.

 Ne pas willseit a machine sur une pente supérieure à angle de pente franchissatie 25(AWD)/15(ZWD) degres.

 Ne pas willseit a machine sur une pente supérieure à angle de pente franchissatie 25(AWD)/15(ZWD) degres.

 Ne laissez personer s'approcher de la machine en déplacement ou en tonte. Ne pas démarrer, tourner, accétierer ou stopper brutalement, Tondez en machine avant, and terridate de la machine de la machine

5362M-5351-0101-020

Safety Mechanisms

This product is equipped with the following safety mechanisms.

Start Interlock Mechanism

The engine can be started only when the parking brake is in [] (engaged) position and the mower clutch in [OFF] position. This is to prevent unintended movement of the machine or the cutting blade when starting the engine.

Automatic Blade Stopping Mechanism

The engine stops if the operator is not seated while the mower is running. This is to reduce the possibility of accident related to moving the blade when the machine is turned over.

Safety

Safety Precautions

This section contains safety precautions to follow when operating and maintaining the machine. Read and understand the precautions in this section as well as throughout this manual and follow them when operating or maintaining the machine. Failure to follow the safety precautions could result in property damage, serious injury or death to the operator or bystanders.

Training

All operators and mechanics should receive practical instructions from their employer or renter. Such instructions should cover the following issues:

- It is essential to familiarize yourself with the controls, safety labels and the proper use of the machine.
- Never allow people unfamiliar with these instructions to operate or service the machine.
 Do not let anyone under 18 years of age to operate this machine. Local regulations may restrict the minimum age for operating the machine. Consult your local authority.
- The operator is responsible for the accidents or hazards caused to other people or their property.
- This machine has a riding capacity for one person only. Do not carry passengers other than the operator.
- Observe the weight limit of this machine: 120kg.
- Always keep in mind that care and concentration is required when working with ride-on machines.
- Loss of control on the slope cannot be regained by an application of the brake. The main reasons for loss of control are:
- → insufficient grip of tires.
- \rightarrow excessive speed.
- → misjudging of the ground conditions, especially gradient.

Preparation

AWARNING!

- Fuel is highly flammable. See Checking and Filling Fuel, page 17 for important safety information on handling fuel.
- Always wear the protective footwear, long trousers, hardhat, safety glasses and ear
 protection when operating or servicing the machine. Proper clothing will minimize the
 chance of injury. Do not operate the equipment if you have long hair, loose clothing, or
 jewelry; all of which may get tangled in the moving parts. Do not operate the machine
 barefoot or with open sandals.
- Prepare beforehand the working rules and procedures such as signaling and traffic control for the work place. Following such rules will reduce the risk of accidents.
- Never handle fuel or grease, service the engine, or recharge the battery in the presence of fire or spark.
- Perform the daily pre-startup inspection (see Preparation, pages 17) before starting the machine. Repair or replace damaged parts before starting the machine.

Safety

Operation

This machine is intended for cutting grass and bushes. Any other use may pose hazard or cause damage to the machine.

The stability of the machine is affected by the speed, rate of steering, terrain and the operator's weight. Always pay close attention to these factors or a loss of control or tip over could occur, resulting in property damage, serious injury or death.

General Driving

- Do not operate the engine in a confined space where dangerous carbon monoxide fumes can accumulate.
- Do not touch the engine, muffler or exhaust pipe while the engine is running or soon after it has stopped. These areas will be very hot and can cause burns.
- Do not operate the machine under the influence of alcohol or drugs. Do not operate the machine when you are tired, ill, or not feeling well.
- Always check for obstacles before operating on new terrain. This includes overhead obstacles such as the branches of a tree.
- Before starting the engine and moving the machine, scan around your surroundings and make sure all persons and other vehicles are a safe distance away from the machine.
- On a slippery surface, travel slowly and exercise caution to reduce the chance of skidding or sliding out of control. Never operate on ice.
- Always make certain that there is no obstacle or a person behind the machine when backing up. After confirming that it is safe to back up, move slowly and avoid sharp turns.
- To reduce the risk of tipping over, pay special attention when encountering an obstacle or a slope, or when braking on a slope or during a turn. See Driving on a Slope on page 8.
- Never attempt to drive over a large obstacle such as rock or fallen tree.

- Always travel slowly and use extra caution when operating on an unfamiliar terrain. Be alert when traveling on a changing terrain.
- Never operate on a terrain that you are not comfortable with. Avoid the terrain that is so rough, slippery or loose that you feel like you could tip over.
- Do not operate the machine near the edge of a cliff, an overhang or a landslide area. Pay special attention after heavy rain or earthquake.
- Do not make sudden maneuvers. A sudden start, stop, or turn can make the machine lose control and could cause a tip over. Be especially cautious when traveling on soft or wet ground.
- Drive at a safe speed, taking into account the surface gradient, surface conditions and load.

Driving on a Slope

AWARNING!

- Never use on the slope steeper than 25 degrees.
- Driving on the slope can be dangerous. It can result in a tip over and cause serious injury or death. Take the following precautions.
- Always follow proper procedures for driving on the slope as described in this manual.
- Driving on the slope in a wrong manner can cause a loss of control or a vehicle tip over. Check the terrain carefully before attempting to drive on a slope.
- Never drive on a slope that you are not comfortable with. Avoid the slope that is so rough, slippery, or loose that you feel like you could tip over.
- When driving up a slope, proceed at a steady rate of speed and throttle position.
- Never move the throttle lever, the drive lever, the drive pedal or the steering wheel suddenly.
- If the engine stalls or loses traction during a climb and cannot make it to the top of the slope, do not try to turn the machine around. Carefully back down slowly, straight down the slope.
- Drive straight up or down slopes. Avoid turning on the slope.
- When going over the top of a slope, go slow; an obstacle, a sharp drop, or another vehicle or person could be on the other side of the crest.
- Avoid driving the machine across the slope.
- Before driving down a slope, stop and shift auxiliary transmission to [L] (low speed) position. Drive slowly. Use the engine speed to help keep the machine speed low.

Cutting

When conducting cutting operation, take the following precautions.

- Always follow the proper procedures for cutting as described in this manual.
- Shut off the work site. Post signs to inform of the cutting operation. Close off the site with rope if necessary to keep people, especially children, off the work site.
- Pay attention to the surrounding area. Rotating cutting blade throws stones, rocks and debris. This may cause property damage, injury, or death.
- Drive forward when cutting. This best prevents the cutting blades from throwing stones, rocks, or debris.
- Pay attention to obstacles. This includes overhead obstacles such as the branches of a tree.

Parking

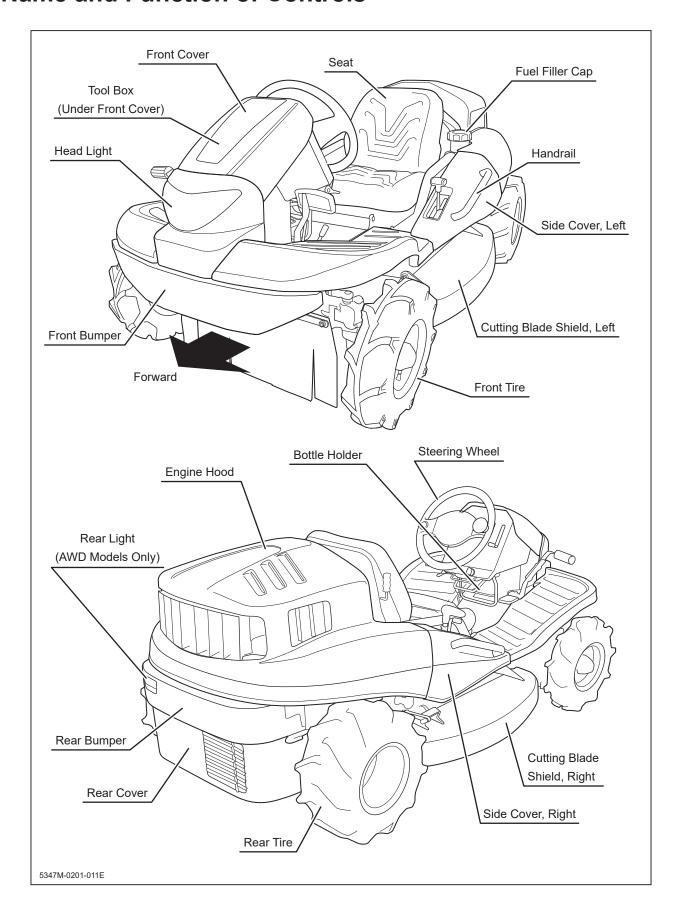
- Park the machine on a flat, level and stable surface. Never park on a slope steeper than 10 degrees. Avoid parking on a slope less than 10 degrees. If parking on a slope less than 10 degrees is absolutely unavoidable, apply the parking brake and block the wheels at the lower end of the machine.
- → Park the machine facing uphill
- \rightarrow Do not park sideways on the slope.
- Never park on the instable surface. Do not park near the edge of a cliff.
- Observe all the previous precautions for driving, driving on a slope.
- Whenever you park the machine, apply the parking brake and stop the engine. Remove
 the key whenever you leave the machine unattended to prevent unauthorized use or
 accidental starting.
- Gasoline is extremely flammable and can be explosive. When parking the machine indoors, make certain that the building is well ventilated and that the machine is not close to any source of flame or spark, including appliances with pilot lights.

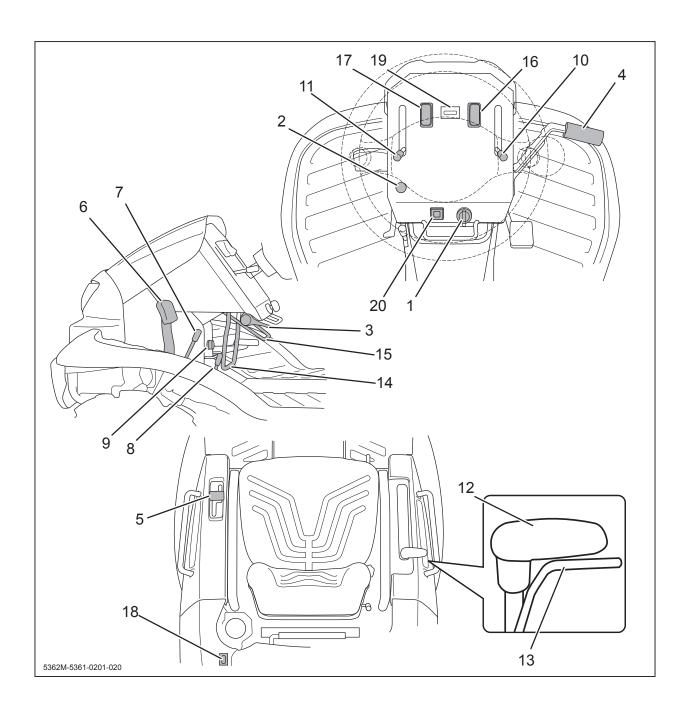
Safety

Servicing

- Do not service the machine when the engine is running. If it is absolutely necessary to run the engine while servicing, pay attention to the moving parts.
- Do not operate the engine in a confined space where dangerous carbon monoxide fumes can accumulate.
- Make sure all hydraulic line connectors are tight and all hydraulic hoses and lines are in good condition and leak-free.
- Keep your body and hands away from pinhole leaks or nozzles that eject hydraulic fluid under high pressure. Use paper or cardboard, not your hands, to search for leaks.
 Hydraulic fluid escaping under pressure can have sufficient force to penetrate the skin and cause serious injury.
- Check all fuel lines on a regular basis for tightness and wear. Tighten or repair them as needed.
- If the engine must be running to perform a service, keep hands, feet, clothing and any part of the body away from any moving part, especially the cooling fan and the belts at the back of the engine.
- Do not touch the engine, muffler, or exhaust pipe while the engine is running or soon after it has stopped. These areas will be very hot and can cause burns.
- The engine must be shut off before checking or adding oil.

Name and Function of Controls





Controls and Components

1	Main Switch	. Main switch is used to start or stop the engine.
2	Choke Knob	. Choke Knob is used to help start the engine by closing the choke valve.
3	Throttle Lever	. Throttle lever is used to control the engine speed.
4	Drive Pedal	Drive pedal is used to control the traveling direction and speed of the machine. The machine moves forward when the front of the drive pedal is depressed and backward when the rear of the drive pedal is depressed. The angle of the drive pedal determines the speed.
5	Drive Lever	Drive lever is used to control the traveling direction and speed of the machine. The machine moves forward when the lever is tilted forward and backward when the lever is tilted backward. The angle of the drive lever determines the speed.
6	Parking Brake Pedal	Parking Brake pedal is used to keep the machine from moving. When the parking brake pedal is depressed, the drive lever returns to the neutral position and the parking brake is engaged.
7	Parking Brake Lock Lever	Parking brake lock lever is used when parking the machine securely. Pulling the parking brake lock lever while the parking brake pedal is depressed locks the parking brake pedal in the engaged position.
8	Auxiliary Transmission Shift Lever	Auxiliary transmission shift lever is used to shift the auxiliary transmission to change the speed of the machine.
9	Battery Off Switch	. Minus circuit connection of the battery can be switched on or off. Used for vehicle maintenance and long-term storage.
10	2WD/AWD Shift Lever	. 2WD/AWD shift lever is used to switch between the 2WD (rear-wheel drive) and AWD (all-wheel drive) modes.

Controls and Components

11 Differential Lock Lever	. Differential lock lever is used to lock the differential when the rear tires slip. Tilting the differential lock lever to [ON] position locks the differential.
12 Cutting Height AdjustLever13 Cutting Height Adjust Lock	. Cutting height adjust lever is used to adjust the cutting height. Grab and hold the cutting height adjust lock and move the cutting height adjust lever back or forth to adjust the cutting height.
14 Mower Clutch Lever	. Mower clutch lever is used to start or stop running the mower.
15 Tilt Lever	. Tilt lever is used to adjust the angle of the steering wheel.
16 Head Light Switch	. Head light switch is used to turn on or off the head light. When the main switch is on, the head light switch illuminates.
17 Rear Light Switch	Rear light switch is used to turn on or off the rear light. When the main switch is on, the rear light switch illuminates.
18 Fuel Gauge	. Fuel gauge indicates the amount of fuel in the fuel tank.
19 Hour Meter	. Hour meter indicates the cumulative total operating time of the machine in 0.1 hour increments.(This hour meter is activated only while the engine actuate.)
20 Oil Pressure Warning Light	. Under normal condition, the oil pressure warning light goes off once the engine starts. It is illuminated when a problem with engine oil pressure is detected while the engine is running.

ACAUTION!

• Please lubricate the oil as soon as the oil pressure warning light turns on. When the warning light turns on, the operation of the hour meter is stopped. If the hydraulic warning light does not light up before starting the engine, the hour meter does not operate. Please change the bulb. In case of bulb burn out, the hour meter does not operate.

Product Specifications

ACAUTION!

· Use this product properly after understanding its specifications thoroughly.

			CMX2402			
Model and Type		standard model	standard & H tire model	cyclone air cleaner model		
Ma	achine Mass		Kg	365	375	365
Mo	owing Rate		m²/h		7300 ^{*1}	
	Overall Leng	th	mm		1998	
ဖ တ	Overall Width	า	mm		1085	
Dimensions	Overall Heigl	nt	mm	910	910	1015
ens	Wheelbase		mm		1300	
] <u>ä</u> [Tread	Front	mm		860	
-	rreau	Rear	mm	800		
	Ground Clea	rance	mm	125		
	Model			HONDA GX690*2		
	Туре			Air-cooled 4-cycle V-twin Gasoline(OHV)		
	Cylinder (Bore×Stroke)		mm	78×72		
	Displacement		cm ³	688		
	Maximum Ou	utput	kW(PS)/rpm	16.5(22.4)/3600 ^{*3}		
<u>ا و</u> [Maximum To	rque	N•m(kgf•m)/rpm	48.3(4.83)/2500*3		
Engine	Set Engine S	peed	rpm		3300	
<u>□</u>	Starter Syste	m			Electric	
	Fuel			Automotive Unleaded Gasoline		
	Fuel Consum	nption	g/kW•h(g/PS•h)	304.5 (224)		
	Fuel Tank Ca	apacity	L	20		
	Ignition			CDI Magneto		
	Spark Plug				NGK ZFR5F	

^{*1} Estimated at the maximum speed with the auxiliary transmission in Low position.

^{*2} See below URL for the latest CO2 measurement results of GX690RH. http://www.honda-engines-eu.com/co2-engines

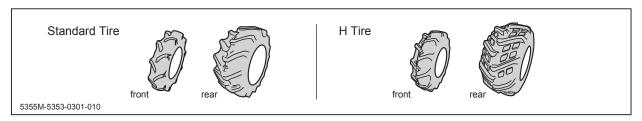
This CO2 measurement results from testing over a fixed test cycle under laboratory conditions a (n) (parent) engine representative of the engine type (engine family) and shall not imply or express any guarantee of the performance of a particular engine.

^{*3} The power rating of the engine indicated in this document is the net power output tested on a production engine for the engine model and measured in accordance with SAE j1349 at 3,600 rpm (net power) and at 2,500 rpm (max net torque).

					CMX2402	
	Model and 1	Гуре		standard model	standard & H tire model	cyclone air cleaner model
Electrical	Battery Typ	е			40B19R	
Elect	Battery Cap	acity	V/Ah	12/28		
	Speed	High			0 to 13.8	
ا ۾ ا	Speed	Low			0 to 7.7	
anc	Minimum Tu	ırning Radius	m		1.8	
J E	Gradeability	,	Degrees		25	
Performance	Stability*4 (in accordance standard me	ce with the asuring method)	Degrees		25	
	Main Transmission			HST (Continuously Variable)		
	Auxiliary Transmission				Constant Mesh	
Drive Train	Tires	Front		AGR 4.00-7 (2PR)	4.00-7 (4PR)	AGR 4.00-7 (2PR)
į.		Rear			17X8.00-8 (4PR)	
اَمَا	Steering		mm	Rack and Pinion Round Steering Wheel		eel
	Brakes			I	nternally Expandin	g
ше	Cutting Widt	h	mm	975		
yste	Cutting Width Cutting Height Blade Type Number of Blades Blade Drive Train		mm	0~150 (21 Steps)		
g	Blade Type			Free Knife & Stepped Stay		
iii	Number of E	lades			2	
ರ	Blade Drive	Train			Shaft Drive	

^{*4} The stability angle complies with ISO5395-3.

These specifications are subject to change without notice.



Contents of Tool Bag

No.	Content	Quantity	Note
1	Operator's Manual	1	This Manual
2	Engine Manual	1	
3	Engine Service Tool	1	For Servicing Engine

Preparation

Pre-start up Inspection

AWARNING!

- Always perform an inspection before every use. If a problem is found, solve or repair it before use.
- Clean mowing dust and cut grass before use to avoid fire.
- Make sure the cooling air intake is not blocked or clogged. If it is blocked, the engine overheats, resulting in damages to the machine or causing fire.

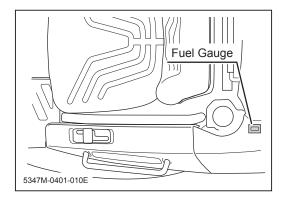
Always perform an inspection before use.

Refer to the Maintenance Schedule (page 42) for the inspection schedule and procedure.

Checking and Filling Fuel

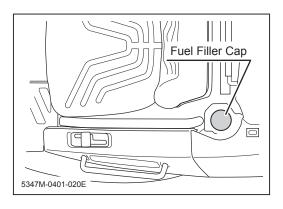
AWARNING!

- · Keep fire and spark away when handling fuel.
- · Always stop the engine before refueling.
- Do not fill beyond the limit (bottom of the filler filter) so that fuel will not overflow. In case fuel is spilt, wipe out immediately.



1. Check the fuel gauge. If the fuel level is low, fill fuel.

Operation



- 2. Open the fuel filler cap and fill fuel.
- 3. Put the fuel filler cap back in place and close it securely.

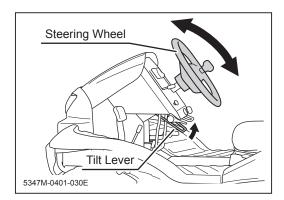
NOTE -

- Fuel: Automotive Unleaded Gasoline
- Fuel Tank Capacity: 20L

Adjusting Steering Wheel

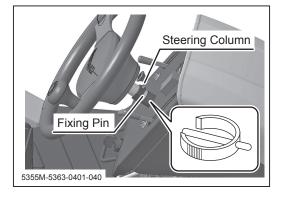
ACAUTION!

• After adjusting the steering wheel, try moving the steering wheel back and forth and up and down to make sure it is securely locked in its position.



Adjusting Angle (Tilting)

- 1. Pull up tilt lever to adjust the steering wheel angle.
- 2. There are five positions for steering wheel angle.
- 3. After adjusting angle, return tilt lever to lock steering wheel securely.



Adjusting Height

1. Remove fixing pin from the steering column.



NOTE -

- If fixing ping is in the difficult direction to remove, steer the steering wheel to change direction of the pin so that the pin can be easily removed.
- Adjust steering wheel height in proffered position. Line up holes on steering shafts and insert pin.

NOTE -

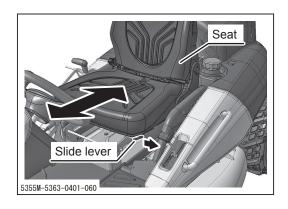
 Move steering wheel up and down to check if the steering wheel is fixed securely.

Adjusting Seating Position

ACAUTION!

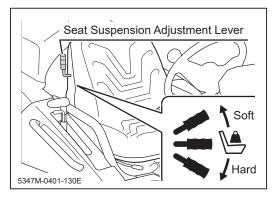
- Beware of the pinch points when adjusting the seating position.
- After adjusting the seat, try moving the seat back and forth and up and down to make sure it is securely locked in its position.
- When raising the seat, always slide the seat to the rearmost position. If the seat is not in the rearmost position, the slide lever may interfere with the step, preventing the seat from being raised to the holding position.
- When raising the seat, make sure to hold the seat in position with safety lock.

Operation



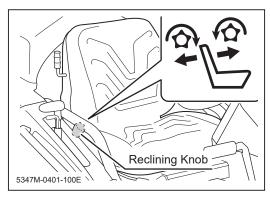
Sliding seat

- 1. Pull the slide lever to the right to slide the seat forward or backward.
- When the seat is in a desired position, release the slide lever and lock the seat securely.



Adjusting Stiffness

1. Move the seat suspension adjustment lever to adjust to a desired seat stiffness.

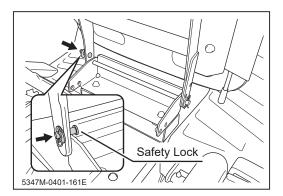


Adjusting Reclining Angle

1. Rotate the reclining knob on the right of the seat to adjust the reclining angle of the seat.

NOTE -

 Do not adjust the seat to the rearmost position and recline seat. The seat may contact with the engine hood. This may activate the seat safety switch and stop the engine. Adjust the seat within the range of not contacting with the engine hood.



Raising Seat

- 1. Slide the seat to the rearmost position.
- 2. Raise the seat and push the safety lock inward to hold the seat in position.

NOTE -

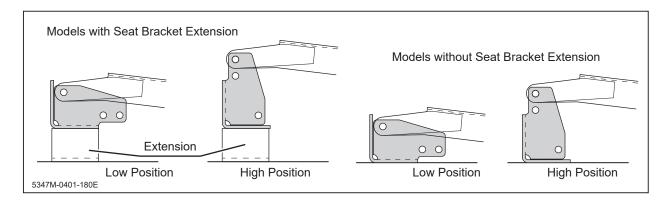
 Move the seat and see if the seat is held in place firmly.

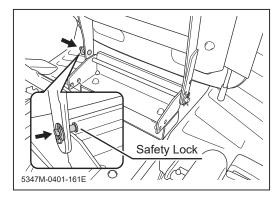
Adjusting Seat Height (Front Part)

Height of seat at front can be set in one of two positions.

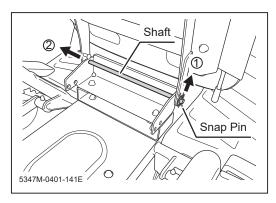
NOTE -

- The seat safety switch bracket at the rear needs to be in the highest position when setting the front of the seat in the high position.
- The front seat bracket and the set height at the front and the rear varies, depending on the model, year and version. However, the adjusting procedure is the same.



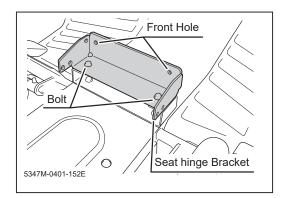


1. Raise the seat and push safety lock inward to hold the seat in position.



2. Remove the snap pin①.Hold the seat and pull out the shaft ② that holds the seat. Remove the seat.

Operation



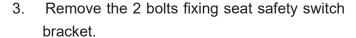
- 3. Remove the 2 bolts to remove the seat hinge bracket.
- 4. Turn around the seat hinge bracket and mount it to floor with the bolts through the front holes.
- 5 .Hold the seat in place and install the shaft and hold it with the snap pin, in the reverse order of 2.
- 6. Pull back the seat safety pin and lower the seat

Adjusting Seat Height (Rear Part)

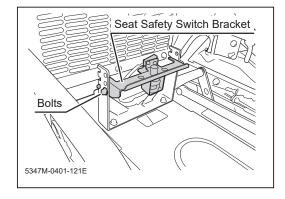
- 1. Slide seat to the rear-most position.
- 2. Pull up seat and push safety pin toward inside to hold seat lifted.

NOTE -

- Move the seat and see if the seat is locked securely.
- The height at the rear can be adjusted in 4 levels (2 for the Oceania version.)



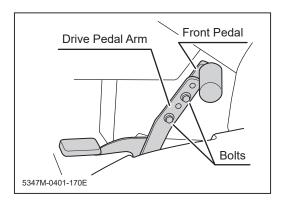
- Move the seat switch safety bracket to a desired position and fix it with the bolts firmly.
- 5. Pull the safety lock back and lower the seat.



Adjusting Drive Pedal

▲CAUTION!

• Always check if the drive pedal is fixed firmly after adjusting.



- Remove the two bolts fixing the front pedal with drive pedal arm.
- 2. Adjust the front pedal into a desired position and fix it with the bolts.

NOTE -

 The front pedal can be adjusted in 3 positions and its angle can be adjusted also.

Driving

Starting

AWARNING!

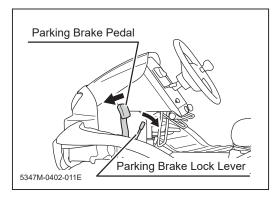
- Always start and run the engine in a well ventilated place.
- Always stay on the seat when starting the engine. Never attempt to start the engine away from the machine. Run over accident may result.

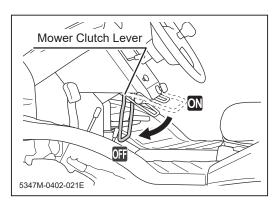
ACAUTION!

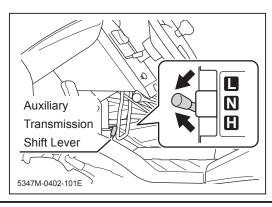
- Do not turn the main switch to [∅] (start) position when the engine is running. The starter motor and/or the engine may be damaged.
- Position the throttle lever to [] (slow) when starting.
- Do not turn the starter for more than 5 seconds. If the engine does not start, turn the main switch back to [\bigcirc] (off) position and wait for 10 seconds or more before attempting to start again.
- If the engine does not start after starting procedure is performed several times, turn off the main switch and wait for 5 to 10 minutes and try again.
- If the oil pressure warning light stays on after the engine starts, there can be a problem in the oil system. Stop the engine immediately. Engine failure may result.
- Do not use this machine in the temperatures above 40°C or below -15°C. This machine cannot perform adequately in these temperature ranges. Using this machine under such conditions may result in an accident or cause damage to the machine.
- In the winter or cold climate, warm up the engine thoroughly before driving the machine. A cold engine delivers poor performance, which may result in an accident. It also causes excessive wear.

ACAUTION!

- Do not use this machine in dusty places such as desert. Dust may clog the air filter or enter the engine, which may result in loss of performance and an accident. It also causes excessive wear.
- Do not use this machine in the altitude above 1500m (4920ft.) in its original configuration. This machine cannot perform adequately above that altitude. Using this machine under such conditions may result in an accident or cause damage to machine. If you need to use this machine above that altitude, contact your CANYCOM representative.







 Make certain the parking brake pedal is depressed and locked. If it is not, depress the parking brake pedal and pull the parking brake lock lever to lock it.

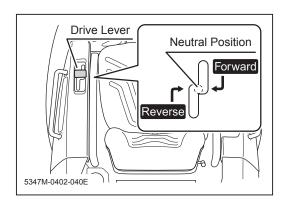
NOTE ----

- Safety feature: the engine cannot be started unless the parking brake pedal is depressed.
- 2. Make sure the mower clutch lever is in [OFF] position.

NOTE -

- Safety feature: the engine cannot be started unless the mower clutch lever is in [OFF] position.
- 3. Make certain the auxiliary transmission shift lever is in [N] (neutral) position.

Operation

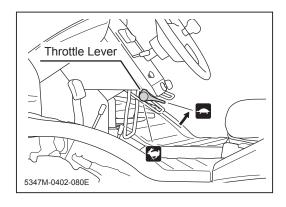


4. Make certain the drive lever is in the neutral position.

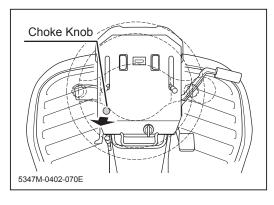
NOTE -

- The drive lever returns to the neutral position when the parking brake pedal is fully depressed.
- Close
 Open
 Sac2M-5361-0402-060

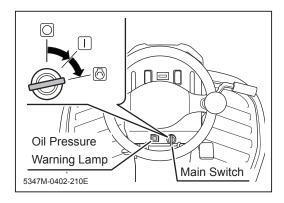
5. Open the engine hood (see page 53). Open the fuel cock.



6. Make sure the throttle lever is in the [—] (slow) position.



7. Pull the choke knob to close the choke valve and insert the ignition key into the main switch.



- 8. Turn the main switch to [|] (ON) position and make sure the oil pressure warning light turns on.
- 9. Turn the main switch to [] (start) position to start the engine. Release the key immediately after the engine starts. The key automatically returns to [] (ON) position. Once the engine starts, make sure the oil pressure warning light goes off.
- Push back the choke knob to open the choke valve.
- 11. Run the engine without load for about 5 minutes to warm up.

NOTE -

- When the main switch is turned to [|] (ON) position while the engine is not running, the oil pressure warning light goes on. If it does not, the light bulb may be blown. Check the light bulb.
- Once the engine starts, the oil pressure warning light goes off. If it does not, there may be a problem in the oil system. Stop the engine immediately and check the engine.
- Avoid frequent restarting. Once the engine starts, run it for a while to charge the battery.
- Drive the machine gently in the first week (40 to 50 hours) of operation after purchase for breaking-in.

Driving

AWARNING!

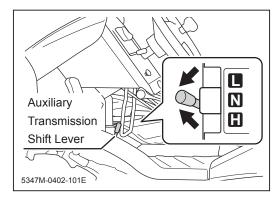
- Always wear the protective footwear, long trousers, hard hat, safety glasses and ear protection when operating or servicing the machine. Proper clothing will minimize the chance of injury. Do not operate the equipment if you have long hair, loose clothing, or jewelry; all of which may get tangled in the moving parts. Do not operate the machine barefoot or with the open sandals.
- Do not allow bystanders to come near the machine when driving.

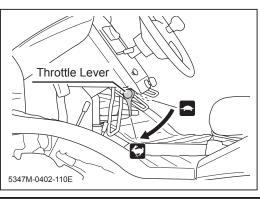
AWARNING!

- Always make certain of the safety of your surroundings before driving; start slow. Always make certain of the safety of your surroundings before turning.
 Do not make sudden starts, acceleration, change of speed, change of direction, or stop. Do not turn at speed. Avoid sudden manoeuvers; this may cause the operator to fall or to be thrown, or the machine to tip over.
- Use [L] (low speed) mode and drive slow on an incline to avoid the operator to fall or to be thrown, or the machine to tip over.
- Do not operate the drive pedal and the drive lever simultaneously.
- Do not turn the key to [○] (off) position while traveling.

ACAUTION!

• Do not operate the drive pedal or the drive lever when the parking brake pedal is locked with the parking brake lock lever. It can wear out the parking brake.



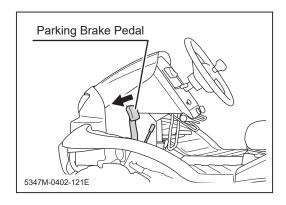


- Make certain of the safety of your surroundings.
- 2. Move the auxiliary transmission shift lever to either [H] (high speed) or [L] (low speed) position.

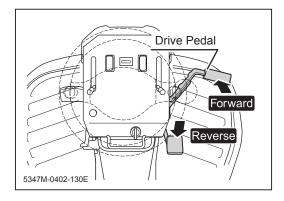
NOTE -

- See Specifications (page 15) for the speed range in either gear position.
- 3. Move the throttle lever toward [j (fast) position to increase the engine speed.

Operation



4. Depress the parking brake pedal to release the parking brake lock lever.

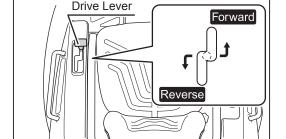


Driving with Drive Pedal

5. Depress gradually the forward or reverse side of the drive pedal to move in the corresponding direction.

NOTE -

 The speed can be adjusted continuously by the position of the drive pedal.



5347M-0402-140E

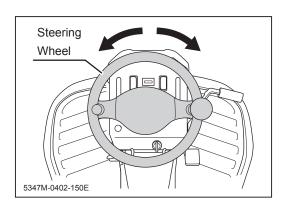
Driving with Drive Lever

Move the drive lever gradually forward or backward to move in the corresponding direction.

NOTE -

 The speed can be adjusted continuously by the position of the drive lever.





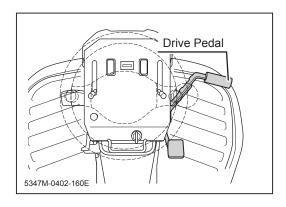
Stopping

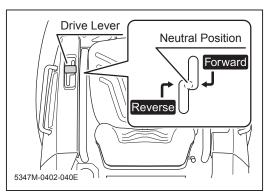
AWARNING!

- Do not make a sudden stop. Operator may be thrown off, or the machine may skid or tip over.
- Always park on a firm, level place. Never park on a potentially dangerous place.
- Do not park near combustibles.

ACAUTION!

• Do not hold the drive lever and depress the parking brake pedal at the same time. Or, do not depress the drive and parking brake pedals at the same time. The HST may be damaged.





When Driving with Drive Pedal

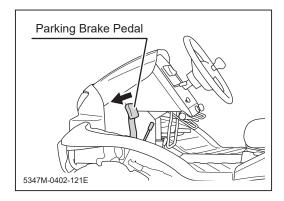
- Gradually return the drive pedal to slow down.
- 2. Take the foot off the drive pedal.

NOTE

• The drive pedal returns automatically to the neutral when released.

When Driving with Drive Lever

- 1. Gradually return the drive lever to the neutral position to slow down.
- 2. Release the hand off the drive lever.



3. Depress the parking brake pedal to stop the machine completely.

NOTE -

 When the parking brake pedal is depressed, the drive lever returns to the neutral position.

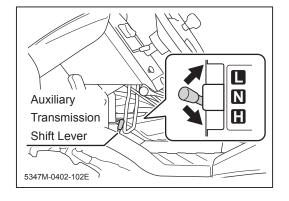
Shifting

AWARNING!

• Always shift gears firmly. When the transmission is not firmly shifted, it may jump out of the gear, resulting in loss of control of the machine.

ACAUTION!

- Always stop the machine to shift gears. Shifting gears while the machine is in motion can damage the transmission.
- Use [L] (low speed) mode when cutting (mowing). Cutting in [H] (high speed) mode can put excessive strain and damage the cutting mechanism.



- 1. Stop the machine.
- 2. Move the auxiliary transmission shift lever to [H] (high speed) or [L] (low speed) position firmly.

NOTE -

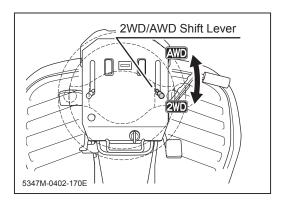
• See Specifications (page 15) for the speed range in either gear position.

Operation

Shifting Between 2WD and AWD (AWD models)

▲CAUTION!

- Always stop the machine to shift between 2WD or AWD (all-wheel-drive) modes. Shifting gears while the machine is in motion can damage the transmission.
- Use the 2WD mode under the normal condition.
- Pay attention to the minimum turning radius in the AWD mode. In the AWD mode, minimum turning radius is greater than that in the 2WD mode.



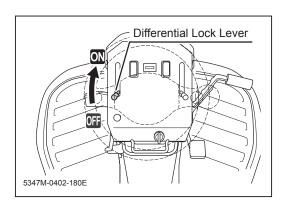
- 1. Stop the machine.
- 2. Move the 2WD / AWD shift lever to [2WD] or [AWD] position firmly.

Locking Differential

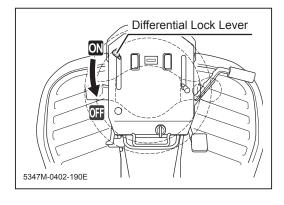
The differential can be locked to minimize slipping on the slippery surface.

ACAUTION!

- Always stop the machine to operate the differential lock lever. Operating the differential lock lever while the machine is in motion can damage the differential.
- Keep the differential lock lever in [OFF] position under the normal running condition. The differential may be damaged.
- Do not turn the machine when the differential lock lever is in [ON] position.



- 1. Move the differential lock lever to [ON] position.
- 2. Move the auxiliary transmission shift lever to [L] (low speed) position.
- 3. Drive slowly out of the slippery area.

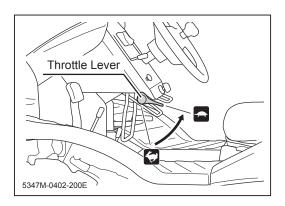


4. Once the machine is out of the slippery area, stop and move the differential lock lever to [OFF] position.

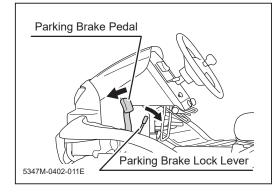
Parking

▲WARNING!

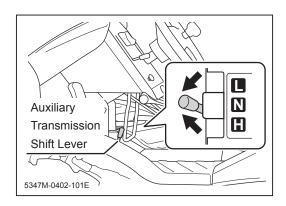
- Always park on a firm, level place. Never park on a potentially dangerous place.
- Avoid parking on a slope. Never park on a slope with an incline of 10 degrees or steeper. If it is absolutely necessary to park the machine on a slope less than 10 degrees, make certain to apply parking brake firmly and block the wheels with chocks.
- Apply parking brake and remove the key when parking.
- Do not park near combustibles.



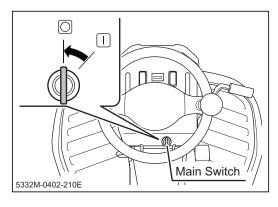
- 1. Stop the machine.
- Move the throttle lever toward [→] (slow) to slow the engine speed.



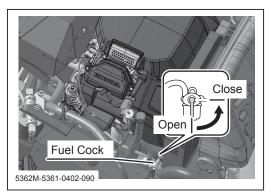
3. Depress the parking brake pedal and pull the parking brake lock lever to lock the parking brake pedal in depressed position.



4. Move the auxiliary transmission shift lever to [N] (neutral) position.



5. Turn the main switch to [O] (off) to stop the engine. Remove the ignition key.



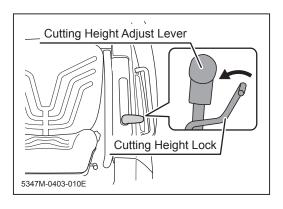
6. Open the engine hood and close the fuel cock. Close the engine hood.

Working

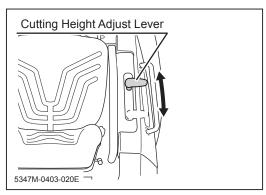
Inspecting Cutting Blade

Inspect the cutting blades before work. Refer to **Cutting Blades** (page 66) for the inspection procedure.

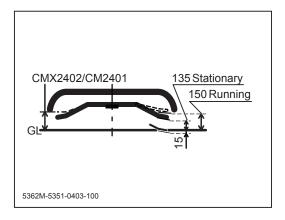
Adjusting Cutting Height



1. Grab the cutting height lock to unlock the cutting height adjust lever.



- 2. With the cutting height lock pulled up, move the cutting height adjust lever to a desired position.
- 3. Release cutting height lock to lock the cutting height adjust lever.



NOTE -

- Cutting Height Range: 0mm - 150mm
- The cutting Height indicated on the side of the cutting height adjust lever is for reference purpose only; actual cutting height may vary due to the condition of the ground or brush and other factors.

Cutting

▲ DANGER!

Never place any part of the body under the cutting blade shield.

AWARNING!

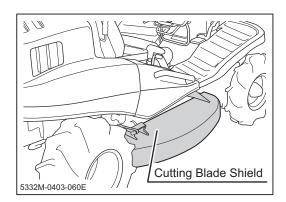
- Always wear the protective footwear, long trousers, hardhat, safety glasses and ear protection when operating or servicing the machine. Proper clothing will minimize the chance of injury. Do not operate the equipment if you have long hair, loose clothing, or jewelry; all of which may get tangled in moving parts. Do not operate the machine barefoot or with the open sandals.
- Do not allow bystanders to come near the machine when cutting (mowing).
- The rotating cutting blades can throw stones or debris and cause injuries and damages to nearby people, animals, crops, buildings, automobiles, etc. Pay attention to the safety of surroundings and plan ahead when cutting.
- Never attempt to cut with the cutting blade shield open.
- When cutting, drive forward. The machine is intended to cut brush while moving forward, and this best prevents stones and debris from being thrown.
- Turn the mower clutch to [ON] only when cuting. Keep it in [OFF] position all the other times.
- Never attempt to cut brush on the edge of a ditch or bank. Shoulder of the ditch or bank may collapse. Pay special attention after heavy rain or earthquake.
- Inspect the work site beforehand; inspect terrain and locate holes, drops, or obstacles. Also inspect overhead obstacles such as the branches of a tree. Pay special attention when working near these areas.
- Do not use this machine on an incline steeper than 25 degrees for the AWD model or 15 degrees for the 2WD model.

▲WARNING!

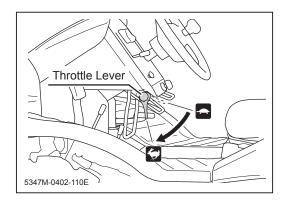
- · Always stay on the machine when cutting.
- Make sure the air intake for cooling is not clogged or blocked. If it is clogged or blocked, it causes overheating, resulting in damages to the machine.

ACAUTION!

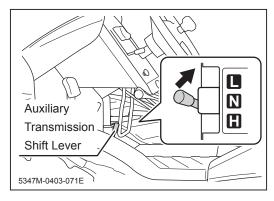
- When working in a dusty area, clean the air filter element twice a day. The dirty air filter element results in poor starting, poor performance, or short service life.
- When a cutting blade is broken, replace it and the other blade with a new pair. A broken blade causes excessive vibration, which damages the machine.
- When something is tangled to the mower, stop the engine immediately and remove the tangled object. Such object causes excessive vibration, which damages the machine.
- Always clean the cutting blades and the cutting blade stay after every use (see page 78). Foreign object on those parts may become solidified or corrode those parts and make the cutting blades hard to remove.
- In case cut grass, dust, or foreign object enters between the cutting blade pin and slot, making it difficult to remove the cutting blade, use a flathead screw driver or similar tool to remove such material or object first.
- Use [L] (low speed) mode when cutting. Cutting in [H] (high speed) mode puts excessive strain on the cutting mechanism and may damage it.



1. Make sure the cutting blade shield is closed.

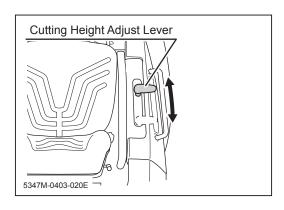


2. Turn the throttle lever to [(fast) position to raise the engine speed.

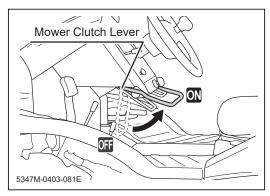


3. Move the auxiliary transmission shift lever to [L] (low speed).

Operation



4. Move the cutting height adjust lever to a desired height.



5. Move the mower clutch lever to [ON] to start mower.

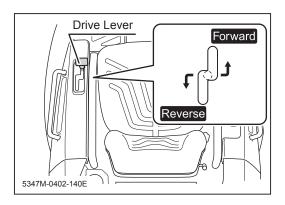
NOTE -

- Safety feature: the engine stops automatically if the operator leaves the seat while the mower is running.
- Drive Pedal
 Forward

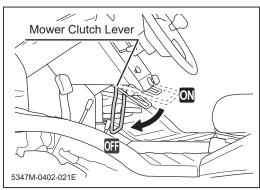
 Reverse
- 6. Drive the machine forward to cut.

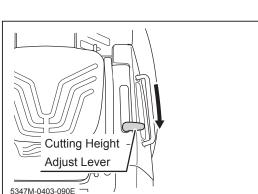
NOTE

- When cutting with this machine for the first time, start on a flat surface. Drive slowly and in an overlapping pattern.
- If the load to the mower is high, drive slowly, or cut in two steps.



Operation





7. Move the mower clutch lever to [OFF] to stop the mower.

NOTE -

- Moving the mower clutch lever to [OFF] applies the mower brake on the mower to stop.
- 8. Move the cutting height adjust lever to the highest position.

Maintenance Schedule

AWARNING!

• Follow the scheduled maintenance as described below. Failure to do so may result in mechanical or property damage, injury or death.

Engine

Daily Inspection

- Engine Oil to be clean and at the correct level.
- Air Filter Element to be clean and free of damage.
- · Leaks No fuel or oil leaks to be found.
- Bolts, Nuts, Fasteners not to be loose or missing.
- Sound, Vibration No abnormal noise or excessive vibration.

Scheduled Maintenance

Items	Frequency		
Clean and check fastens	Every 8 hours (daily)		
Clean and Check lasteris	(clean more frequently in dusty place)		
Check and fill angine oil	Every 8 hours (daily)		
Check and fill engine oil	(clean more frequently in dusty place)		
Clean air filter element	Every 8 hours (daily)		
Clean all liller element	(clean more frequently in dusty place)		
Change engine oil	First time:20 hours. Every 50 hours afterward		
Clean spark plugs	Every 50 hours		
Replace fuel strainer	Every 200 hours		
Replace air filter element	Every 200 hours		
Replace all liller element	(contact Canycom representative for placement)		
Check and adjust spark plug gap	Every 200 hours		
Check and adjust spark plug gap	(contact Canycom representative for placement)		
Replace oil filter	First time:50 hours. Every 200 afterward		
Tropiace on filter	(contact Canycom representative for placement)		
Check and adjust tappets	Every 300 hours (do more frequently in dusty place)		
Remove carbon deposit from cylinder head	Every 500 hours (do more frequently in dusty place)		
Clean engine base (oil pan)	Every 500 hours (clean more frequently in dusty place)		
Clean carburetor	Every 500 hours (clean more frequently in dusty place)		
Perform valve lapping	Every 500 hours (clean more frequently in dusty place)		
Replace fuel hose	Every two years		
Overhaul	1000 hours (contact Canycom representative for overhaul)		

Chassis

- Perform a pre-startup inspection (PSI) before each use, a monthly inspection once a month, and a yearly inspection once a year.
- Some maintenance procedures described below may require special knowledge or tools and instruments. Contact your CANYCOM representative to perform such procedures.

				Schedule		
	Item	Description		Mon	Year	Note
		Tires shall be inflated to the specified pres-	V	V	V	Page 59
		sure.	L V	ľ	V	
		Tires and wheels shall be free of crack, dam-		V	V	
	Tires	age, or uneven wear.		\ \	V	
	11163	Wheel bolts shall not be loose or missing.				
		Wheel bearings do not exhibit excessive				
		play, and no irregular noise or overheating				
		shall be observed.				
		Irregular noise or overheating shall not be		V	V	
	Transmission	observed when moving forward or backward.			V	
	Transmission	There shall not be oil leaks in or around		V	V	
اڃ		transmission.		V	V	
Tra		Transmission can be shifted to either position		V	V	
Drive Train	Auxiliary	positively and performs normally.		V	V	
٥	Transmission	Lever shall not be loose or have excessive		V	V	
		play.		V	V	
		Irregular noise or overheating shall not be		V	V	
	Front Axle	observed when traveling.		V	V	
	TIOILAXIE	There shall not be oil leaks in or around front		V	V	
		differential case or knuckles.		V	V	
		HST shall perform normally.				
	HST	HST oil (hydraulic fluid) shall be filled to a				Page 61
		proper level and shall be clean and free of				
		dirt or contamination.				
		Lever or pedal shall not be loose or have ex-		V	V	
		cessive play.		V	٧	

Item			Schedule			
		Description		Mon	Year	Note
		Belt tension shall be properly adjusted.				
	V-belt	Belt shall be free of damage or excessive		V	V	
		wear.		\ \	٧	
		Brake shall work properly.				Page 65
	Parking Brake	Parking brake shall be able to hold the		V	V	
Ę		machine on the 20-degree slope.		V	٧	
Tra		Turn steering wheel right and left; front			V	
Drive Train	Steering	wheels shall turn accordingly.		V	V	
□	Oteening	Steering can be adjusted in 5 positions and				
		locked securely.		V	٧	
		Rods, links, and wires in linkage shall be free				
	Rods, Links,	of deformation or damage.		ľ	٧	
	and Wires	Connections shall be free of looseness,				
		excessive play, or missing cotter pins.		V	٧	
		Shall be free of cracks, deformation, or		V	V	
es	Chassis,	corrosion.			٧	
evic	Frame	Fastening bolts or nuts shall not be loose or	1		V	
ď		missing.	\ \	V	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Safety Devices		Shall be free of cracks, deformation, or			V	
Sa		corrosion.		\ \	٧	
sis,	Body Panels	Doors and lids shall open, close, and lock			V	
Body, Chassis,	body i ariels	properly.		ľ	٧	
Ċ,		Fastening bolts or nuts shall not be loose or	$ _{}$		V	
ody		missing.	l v	\ \	V	
В	Labels	Warning labels and instruction plates shall be	$$			
	Labels	clean, legible, and free of damage.	ľ	ľ	٧	
		Blades shall be free of cracks or damage.				Page66
		Blade pins and wave washers shall be free	1	V		Page 66
	Cutting	of cracks or damage.	Ľ	Ľ	<u>'</u>	
		Cutting blade shield shall be free of cracks or				
Шe		damage.	Ľ	ľ	\ \ \	
yste		Skirts on cutting blade shield shall be free of				
g S	System	cracks or damage, and shall not be missing.	Ľ	Ľ.	'	
Cutting System	System	Belt tension shall be properly adjusted.				Page 69
ŭ		Belt shall be free of damage or excessive	$$	V	V	Page 69
		wear.	Ľ	_ '	<u>'</u>	
		When activated, mower brake shall stop	1	V	1	Page 70
		mower.	\ \ \	٧	٧	
		Greasing points shall be properly greased.				Page 47

				Schedule		
	Item	Description		Mon	Year	Note
	Charging System	Charging system shall charge battery.			V	
em	Battery	Battery fluid (electrolyte) shall be at the proper level.		1	V	Page 73
al System	ballery	Terminals shall be free of looseness or excessive corrosion.		V	V	
tric	Head Light	Head and rear lights shall work.				
Electrical	Rear Light *1	Light lens shall be free of cracks or chipping and water shall not be in the light unit.		√	V	
	NA/initia as	Connections shall not be loose.		1	V	
	Wiring	Wiring shall be free of damages.		1		

List of Fluids and Lubricants

Item	Schedule	Grade	Сар.
Fuel	As needed.	Automotive Unleaded Gasoline	20 L
Engine Oil	Fill	Gasoline Engine Oil	
	Inspect daily. Fill as needed.	API rating: SE or better.	
	Change	SAE rating: 10W-30	1.4L
	Initially - After 20 hours of use.		
	Every 50 hours afterwards.		
Transmission Oil	Change	Gear Oil	
	Initially - After 50 hours of use.	API rating: GL-4 or 5	0.9L
	Every 500 hours afterwards.	SAE rating: 80	
Front Axle Oil	Change	Gear Oil	
	Initially - After 50 hours of use.	API rating: GL-4 or 5	0.7L
	Every 500 hours afterwards.	SAE rating: 80	
HST Oil	Change	Gasoline Engine Oil	
	Once a year or every 500 hours	API rating: SE or better.	4.0L
	(whichever comes first).*2	SAE rating: 20W-50	T.0L
	Every 300 hours.		
Mower Gearbox Oil	Change	Gear Oil	
	Initially - After 50 hours of use.	API rating: GL-4 or 5	0.15L
	Every 500 hours afterwards.	SAE rating: 80	
Battery Electrolyte	Fill	Distilled Water	
	Inspect every 50 hours and fill		-
	when necessary.		

Greasing Points

▲CAUTION!

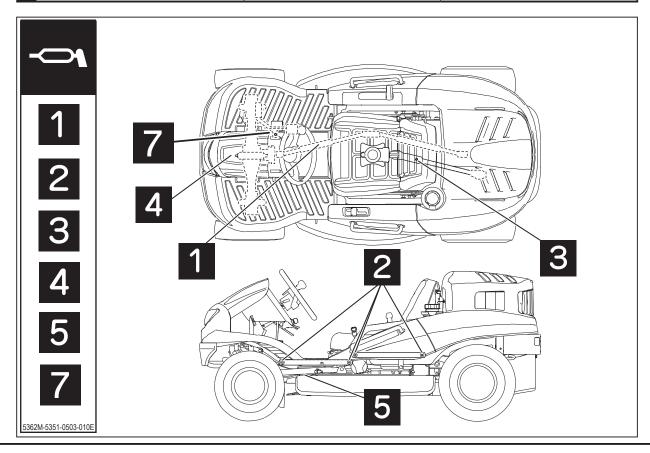
• Grease regularly. Insufficient greasing may result in seizure or rusting, affecting smooth operation of the machine.

NOTE -

- When using a manual grease pump, push handle five to six times. When handle becomes heavy, stop pushing.
- When using a pneumatic grease pump, charge for two to three seconds.
- Set the cutting height to the lowest to grease the link pivots.

Greasing Points

Location	Schedule	Grade
1 Propeller shaft	Every 6 Months	Chassis Grease
2 Mower deck link pivots	Every 6 Months	Chassis Grease
3 Mower drive shaft	Every 6 Months	Chassis Grease
4 Front axle center pivot	Every 6 Months	Chassis Grease
5 Side shield	Every 6 Months	Chassis Grease
7 Drive pedal	Every 6 Months	Chassis Grease



List of Consumables and Spares

▲CAUTION!

• When replacing a consumable or spare, always use the CANYCOM genuine part. Using a non-CANYCOM part may reduce the machine's performance or its service life. Note that it may also void the warranty and certification for the relevant standards.

Item	Part No.	Schedule	Qty.	
Engine	'			
		Initially 50 hrs.		
Oil Filter Cartridge	15400-RTA-004	After - Every 200 hrs.	1	
		Replace if defective.		
Air Filter Element	17218-Z6L-010	Every 200 hrs or seasonally.	1	
All Filler Element	P821575 *3	Every 200 fils of seasonally.	'	
Spark Plug (NGK BPR5ES)	98079-5587G	Clean: every 50 hrs.	2	
Opark Flug (NOK BI NOLO)	96079-5567G	Replace if defective.		
Wire (Throttle)	53620101100	Replace if defective.	1	
Wire (Choke)	53620103000	Replace if defective.	1	
Fuel System	•			
Hose (Carburetor - Fuel Pump)	16860-Z6L-000	Every 2 years.	1	
Hose (Fuel Pump - Fuel Filter)	16850-Z6L-020	Every 2 years.	1	
Hose (Fuel Filter - Fuel Cock)	35700557000	Every 2 years.	1	
Hose(Fuel Cock - Fuel Tank)	53320315000	Every 2 years.	1	
Drive Train	•			
V-belt (HST)	08521400036	Replace if defective.	1	
Time (French) *0	53472202000	Replace if defective	2	
Tire (Front) *2	53472202000	or reaches the wear limit.		
T /5 1) *4		Replace if defective	2	
Tire (Front) *1	53322202000	or reaches the wear limit.		
Time (Decem) *2	F2472202000	Replace if defective		
Tire (Rear) *2	53472302000	or reaches the wear limit.	2	
Tine (Decay) *4	5000000000	Replace if defective		
Tire (Rear) *1	53322302000	or reaches the wear limit.	2	
Valve *2	53472304000	Replace if defective.	4	
Tire Tube (Tube) *1	53322203000	Replace if defective.	2	
Tire Tube (Rear) *1	53322303000	Replace if defective.	2	
Brake Lining (Rear)	73019901000	Replace if defective (Replace in pairs).	2	
Brake Lining (Front)	73069901000	00 Replace if defective (Replace in pairs).		
Wire (Rear Brake)	53323305500	Replace if defective.	1	

^{*1:} standard *2: option

^{*3:} indicates the cyclone air cleaner model.

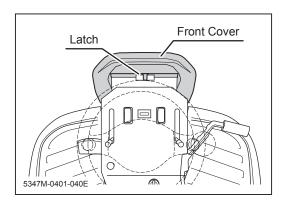
ltem	Part No.	Schedule	Qty.
Drive Train			
Wire (Front Brake)	53323306500	Replace if defective.	1
Wire (Drive Lever)	53473307000	Replace if defective.	1
Wire (Differential Lock)	53323402500	Replace if defective.	1
Wire (AWD)	53323452500	Replace if defective.	1
Cooling Fan	53352023000	Replace if defective.	1
HST Oil Filter	53212071200	When HST oil is changed (once a year or every 500 hours).	1
Cutting System			•
Blade Set (lai)	Z3324202010	Replace if defective.	1
Rubber Plate (Front Skirt, Center)	53322114000	Replace if defective.	1
Rubber Plate (Front Skirt, Sides)	53322113000	Replace if defective.	2
Rubber Plate (Front DiffBlade Shield)	53352111000	Replace if defective.	1
Rubber Plate (Front Axle, Rear Right)	53212118000	Replace if defective.	1
Rubber Plate (Front Wheel, Inside)	53322116000	Replace if defective.	2
Rubber Plate (Blade Shield, Rear)	53324113000	Replace if defective.	1
Rubber Plate (Blade Shield, Rear Left)	53214124000	Replace if defective.	1
Brake Lining (Mower)	53104301001	Replace if defective.	1
Wire (Mower Clutch)	53472404500	Replace if defective.	1
Gas Spring (Cutting Height Adjuster)	53474054000	Replace if defective.	1
Cutting Blade Stay	53474201000	Replace if defective.	1
Electrical System			•
Battery	37053901000	Replace if defective.	1
Fuse, 30A (Green, Main)	09801003002	Replace if defective.	1
Fuse 10A (Red, Lights)	09801001002	Replace if defective.	1
Light Bulb (Head Light)	53320203100	Replace if defective.	1
Light Bulb (Rear Light)	09808121502	Replace if defective.	1

Removing and Installing Body Panels

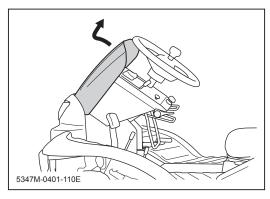
ACAUTION!

- Cut or pinch hazard exists when removing or installing the body panels; beware of the sharp edges and pinch points.
- Make certain to reinstall the panels after removing for repairs or inspection.

Front Cover



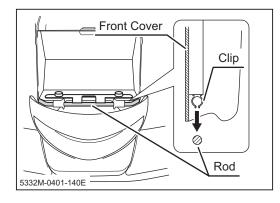
1. Pull the top side of the front cover to unlock the latch.



2. Pull up the front cover.

NOTE -

 A tool box is provided under the front cover. Use this tool box to store tools or replacement cutting blades.

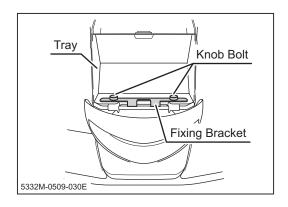


- 3. Raise the steering wheel to the maximum angle and fit the clip on the back of the front cover to the rod.
- 4. Fit the upper part of the front cover.

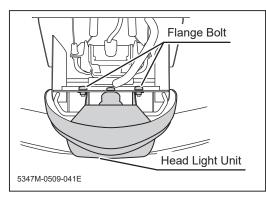
NOTE -

 Make sure not to catch the front cover with the plate on both sides when installing the front cover. If caught, it breaks the front cover.

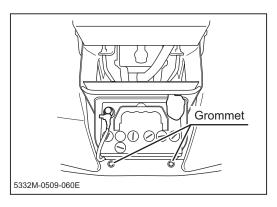
Head Light



- 1. Remove the front cover.
- 2. Remove the 2 knob bolts fixing the tray.
- 3. Remove the fixing bracket and lift the tray.

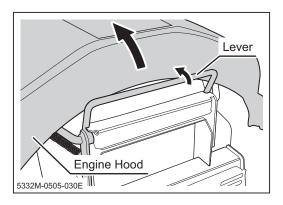


4. Remove the 2 flange bolts fixing the head light unit to remove the head light unit.



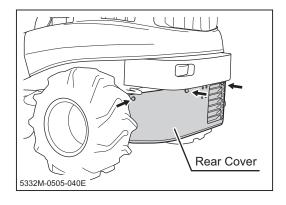
Insert the projections at the bottom of the head light unit into the holes of the grommet on the bumper. Install the other parts in the reverse order.

Engine Hood



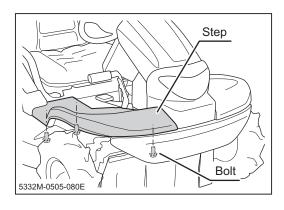
1. Pull the lever and open the engine hood.

Rear Cover



- 1. Remove the 4 bolts.
- 2. Remove the rear cover.

Step



- 1. Remove the 3 bolts fixing the step.
- 2. Remove the step.
- Remove the step on the other side in the same way.

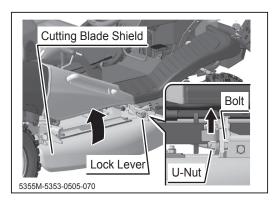
Cutting Blade Shield

▲ DANGER!

• Stop the engine before opening the cutting blade shield. Opening the cutting blade shield when the mower is running may result in injury or death.

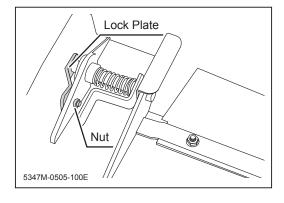
▲WARNING!

• Make sure the cutting blade shield is securely locked in the lowest position and does not open to the side. Loose shield may allow objects to be thrown, resulting in injury to the operator or by-standers or in property damage.



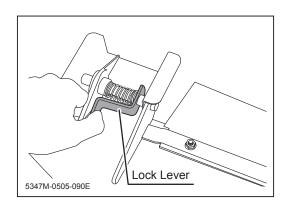
Flipping up shield

- 1. Remove bolt and U nut.
- 2. Raise lock lever.
- 3. Hold lock lever and raise blade shield .
- 4. Release lock lever to lock shield in the raised position.

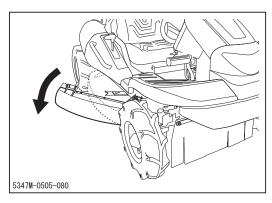


Opening shield to the side

1. Undo the nut to remove the lock plate.



2. Squeeze the lock lever to open the cutting blade shield to the side.



Engine

AWARNING!

- Always stop the engine and remove the ignition key before servicing.
- An engine that has been running is very hot. Allow the engine to cool before servicing, or severe burns may result.
- Keep fire and spark away when servicing.

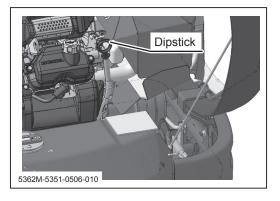
Engine Oil

ACAUTION!

- Make certain to fill the engine with correct grade of oil to the specified level. Insufficient amount or wrong grade of oil reduces performance and may cause permanent damage to the engine.
- Dispose of the drained oil properly.

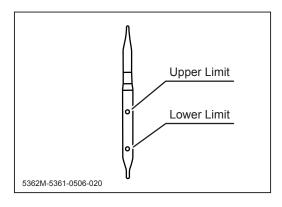
NOTE -

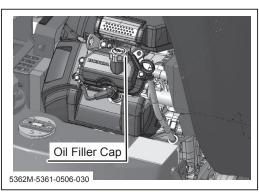
- To obtain a correct reading, check the oil level before starting, or wait about 10 minutes after stopping the engine to allow oil to drain back to the oil pan.
- Always check the oil level on a level surface.
- Oil to use and capacity: Page 46.

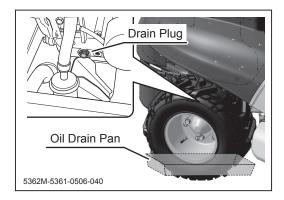


Inspecting

- 1. Park the machine on a level surface.
- 2. Open the engine hood.
- 3. Pull out the dipstick and wipe it clean.
- 4. Insert the dipstick fully and pull it out.







- 5. Visually inspect the oil level. Make sure the oil level is between the upper and lower limits. If it is below the lower limit, add oil.
- 6. Visually inspect the condition of oil. If it is too dirty or viscosity is not normal, change oil.
- 7. Put the dipstick back in place.
- 8. Close the engine hood.

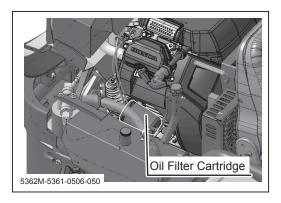
Filling

- 1. Open the engine hood.
- 2. Remove the oil filler cap.
- 3. Fill specified amount of correct oil into the filler.
- 4. Check the oil level. Make sure the oil level is between the upper and lower limits.
- 5. Put the oil filler cap back in place.
- 6. Close the engine hood.

Changing

- 1. Have an appropriate oil drain pan.
- 2. Open the engine hood.
- 3. Remove the oil filler cap.
- 4. Remove the drain plug to drain oil.
- 5. Put the drain plug back in place.
- 6. Fill oil.
- 7. Check the oil level and make sure the oil level is appropriate.
- 8. Put the oil filler cap back in place.
- 9. Close the engine hood.

Oil Filter Cartridge



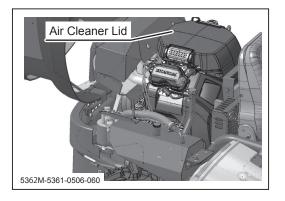
- 1. Open the engine hood.
- 2. Follow the instructions in **Engine Manual** to change the oil filter cartridge.
- 3. Close the engine hood.

Air Filter

1) Normal model

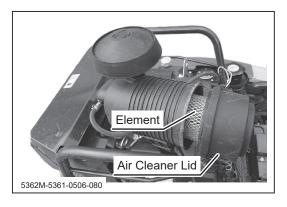
▲CAUTION!

- Clean the air filter element daily. The dirty air filter element causes poor starting, reduces engine performance and shortens engine life.
- Replace the air filter element if damaged.



- 1. Open the engine hood.
- 2. Follow the instructions in **Engine Manual** to inspect, clean or change the air filter element.
- 3. Close the engine hood.

2) Cyclone air cleaner model

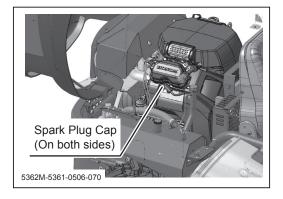


- 1. To clean or change air cleaner element, open the lid in right side.
- 2. Take out the element and inject air from inside of the element to clean.
- 3. Close the lid.

Spark Plugs

▲CAUTION!

- Never pull an ignition cable when removing a spark plug cap. The conductor in the cable may be severed or damaged.
- If a spark plug is damaged, replace it with a new one.



- 1. Open the engine hood.
- 2. Follow the instructions in **Engine Manual** to inspect, clean, or change the spark plugs.
- 3. Close the engine hood.

Drive Train

AWARNING!

- Stop the engine and remove the ignition key when servicing the drive train.
- Allow the machine to cool off before servicing. An engine and its ancillaries are very hot after operation and may pose a burn hazard.

▲CAUTION!

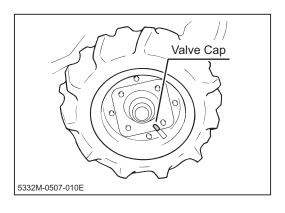
· Dispose of drained oil properly.

Tires

ACAUTION!

• Inflate the tires to the specified pressure. Under- or over-inflation causes uneven wear or other damages to the tires.

	Tire Size	Pressure KPa(kgf/cm²)
Front Wheel	4.00-7 (4PR)	240 (2.4)
	AGR 3.50-7 (2PR)	110 (1.1)
	AGR 4.00-7 (2PR)	120(1.2)
Rear Wheel	17×8.00-8 (4PR)	240 (2.4)
	16×7.00-8 (2PR)	110 (1.1)

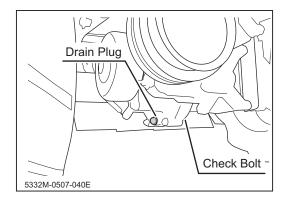


- 1. Park the machine on a level ground.
- 2. Remove the valve cap.
- 3. Check the tire air pressure. If it is different from the specified values, adjust the pressure.
- 4. Put the valve cap back in place.

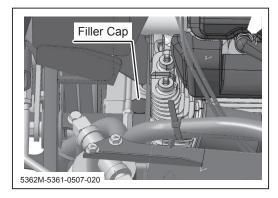
Transmission Oil

NOTE -

• Oil to use and capacity: Page 46.



- 1. Park the machine on a level ground.
- 2. Have an appropriate oil drain pan.
- Remove the transmission oil drain plug to drain oil.
- 4. Install the drain plug back in place.

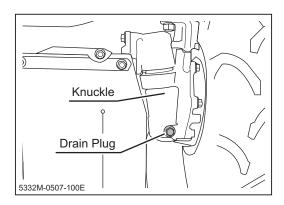


- 5. Open the engine hood.
- 6. Remove the transmission oil filler cap.
- 7. Remove the check bolt.
- 8. Fill the specified amount of correct oil into the filler, up to the check bolt hole.
- 9. Put the check bolt back in place.
- 10. Put the filler plug back in place.
- 11. Close the engine hood.

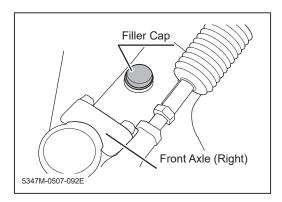
Front Axle Oil

NOTE -

• Oil to use and capacity: Page 46.



- 1. Park the machine on a level ground.
- 2. Have an appropriate oil drain pan.
- 3. Remove the drain plug on the left front knuckle to drain oil.
- 4. Remove the drain plug on the right front knuckle to drain oil as well.



NOTE -

- The drain plug for the right front knuckle is on the back side of the front axle.
- 5. Install both the drain plugs back in place.
- 6. Remove the right front step.
- 7. Remove the oil filler cap.
- 8. Fill the specified amount of oil into the filler.
- 9. Install the filler cap back in place.
- 10. Install the right front step.

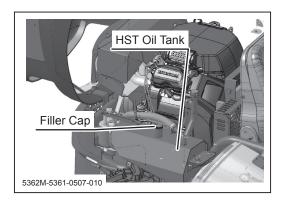
HST (Hydrostatic Transmission) Oil

ACAUTION!

 An HST is a very delicate mechanism, and contamination of ten-micron-order particles can damage it. When it is necessary to work on an HST, work in a clean and dust-free environment, and make sure dust or dirt do not enter its circuit.

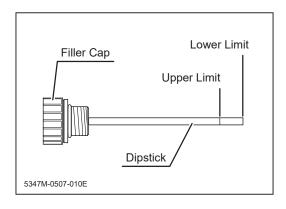
NOTE -

- To obtain a correct reading, check the HST oil level before starting, or wait until the HST oil cools off sufficiently. Hot HST oil expands in volume and does not provide a correct reading.
- When oil is sufficiently cooled and is at the [MIN] level, its amount is sufficient.
- Do not exceed beyond [MAX] level. HST oil may expand and overflow.
- Change the HST oil once a year or every 500 hours, whichever comes first.
- Oil to use and capacity: Page 46.



Inspecting - Models with charge-pump

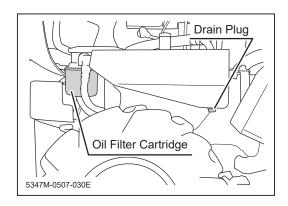
- 1. Park the machine on a level ground.
- 2. Open the engine hood.
- 3. Unscrew and remove the filler cap.



- 4. Wipe the dipstick with clean cloth. Reinstall the filler cap and screw it fully.
- Unscrew and remove the filler cap again.
 Visually inspect that the oil level is between the upper and lower limits on the dipstick. If it is below the lower limit, fill oil.
- 6. Reinstall the filler cap and screw it fully.
- 7. Close the engine hood.

Filling - Models with charge-pump

- 1. Open the engine hood.
- 2. Remove the filler cap.
- Fill the specified HST oil into the filler so that the oil level is between the upper and lower limits on the dipstick.
- 4. Reinstall the filler cap back in place and screw it securely.
- 5. Close the engine hood.



Changing - Models with charge-pump

- 1. Open the engine hood.
- 2. Have an appropriate oil drain pan.
- 3. Remove the filler cap.
- 4. Remove the drain plug to drain the oil tank.

NOTE -

- The HST system cannot be fully drained due to its design.
- Do not operate the drive pedal or drive lever with the HST oil drained. Doing so lets air into the circuit, necessitating to bleed the circuit.

Maintenance

- 5. Remove the oil filter cartridge.
- 6. Have a new oil filter cartridge. Apply a thin coat of oil onto its oil seal and install it.

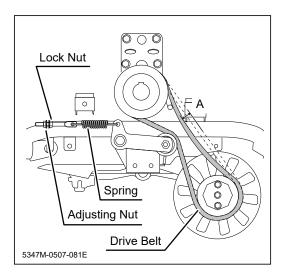
NOTE

- The HST system cannot be fully drained due to its design.
- Do not operate the drive pedal or drive lever with the HST oil drained. Doing so lets air into the circuit, necessitating to bleed the circuit.
- 7. Reinstall the drain plug.
- 8. Fill fresh oil to the level.
- 9. Reinstall the filler cap.
- 10. Start the engine and run it for a while. Stop it and check the HST oil level.
- 11. Restart the engine and drive the machine back-and-forth from standstill several times.
- 12. Check the oil level. If it is low, fill.
- 13. Perform 10-12 until the oil level stabilizes.
- 14. Check if there is no oil leak.
- 15. After changing the HST oil, check the oil level every 10-30 minutes of use for a while and fill as necessary.

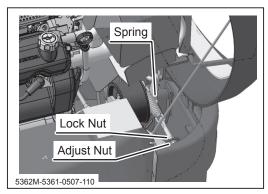
Drive Belt

▲CAUTION!

 Adjust belt tension properly. The improperly tensioned belt may reduce performance and its service life.



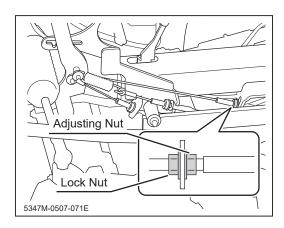
- 1. Open the engine hood.
- 2. Check the V-belt tension. Push the V- belt by a finger and check that the deflection at center point A is in the range of 10 to 20 mm. If it is out of this range, adjust with the adjusting nut.
- 3. Visually inspect the V-belt. Replace the V-belt if it is damaged. For a replacement, contact your CANYCOM representative.
- 4. Close the engine hood.



Parking Brake

AWARNING!

- Always keep parking brake adjusted for maximum performance. Improperly adjusted parking brake may result in property damage, serious injury, or death.
- 1. Park machine on level ground.
- 2. Remove left step.

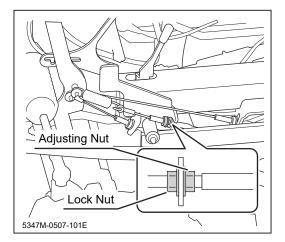


Rear Brake

- 3. Loosen the lock nut
- 4. Adjust the brake with the adjusting nut so that the brake does not drag when the parking brake pedal is free.
- 5. Adjust the brake so that the brake works and the parking brake pedal locks securely when the parking brake lock lever is applied
- 6. Tighten the lock nut.

NOTE -

 If the brake does not work even the parking brake pedal is locked, the brake shoe is worn out. Please contact your CANYCOM representative for replacement.



Front Brake

- 7. Lock the parking brake pedal and inspect that the stretch of the spring is between 5mm and 8mm. If it is not within this range, adjust it with the adjusting nut.
- 8. Tighten the lock nut after adjustment
- 9. Install the left step back in place.

Cutting System

AWARNING!

- Stop the engine and remove the ignition key when servicing.
- Allow the machine to cool off before servicing. An engine and its ancillaries are very hot after operation and may pose a burn hazard.

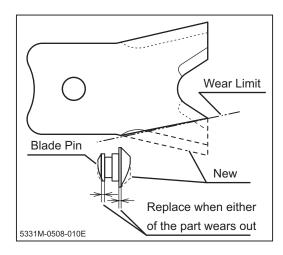
Cutting Blades

AWARNING!

- When a blade is damaged, replace it and the other blade immediately. Always replace blades in pair. Damage due to vibration may occur.
- When replacing blades, always replace both blades. Replace blade pins and wave washers also.
- When a foreign object is tangled with the blade, immediately stop the engine and remove the foreign object. Damage due to vibration may occur.
- When replacing the blades, inspect the cutting blade stay. If the stay is worn beyond the wear limit, damaged or deformed, replace it immediately. Contact your CANYCOM representative for replacement.

ACAUTION!

- Blades and cutting blade stay can become sharp due to wear. When handling
 a blade or cutting blade stay, always wear thick gloves and handle carefully.
 Injury may occur.
- When replacing a blade, do not force it to remove. A blade can move suddenly, causing injury. When it is difficult to remove it, clean the blade and remove foreign object. Turn the blade back and forth to remove.



Inspecting

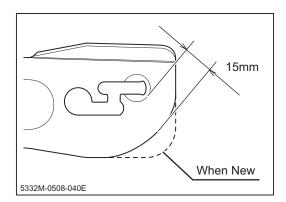
- 1. Open the cutting blade shield.
- Visually inspect the blades and blade pins for wear and damage. If the blades are worn normally, turn them over and use. Replace if both of the edges are worn. If the blades or blade pins are worn excessively, deformed, damaged, or missing, replace them with new ones.

NOTE -

Wear Limit

Blade: Up to the line connecting the outer edge and the inner edge.

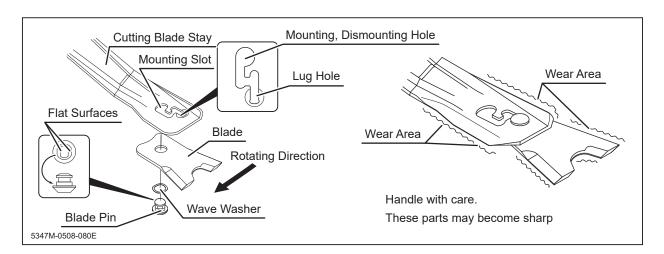
Blade Pin: Up to either of the shoulder.



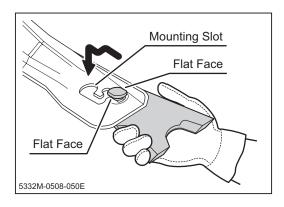
- Inspect the cutting blade stay. If the stay is worn excessively, deformed or damaged, contact your CANYCOM representative and have it replaced with a new one.
- 4. Close the cutting blade shield.

NOTE -

 Wear Limit: Up to the solid line in the left figure (should have more than 15mm clearance between the edge of the cutting blade stay and mounting slot.)

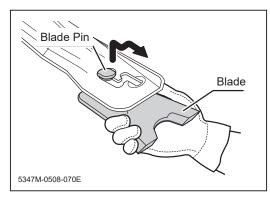


Maintenance



Replacing

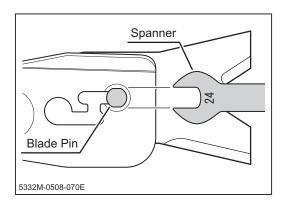
- 1. Open the cutting blade shield.
- 2. Noting the direction of the flat faces on the blade pin, shift the blade along the mounting slot to remove.



Install a new blade pin and a wave washer to the blade and shift blade along the mounting slot, noting the direction of the flat faces.

NOTE -

- Always put thick gloves on and be cautious when handling the blade because both edges of the cutting blade stay can get sharp by wear.
- Wear Limit: See page 67
- If dirt or grass enters into the mounting slot, making removal of the blade difficult, remove dirt or grass with a flathead screw driver before removing the blade.
- If it is difficult to remove the blade, use a 24mm spanner to remove



Mower Drive Belt

▲ DANGER!

• Never place any part of the body under the cutting blade shield when the mower is running.

▲WARNING!

 Do not allow bystanders to come near the machine when inspecting the mower drive belt.

ACAUTION!

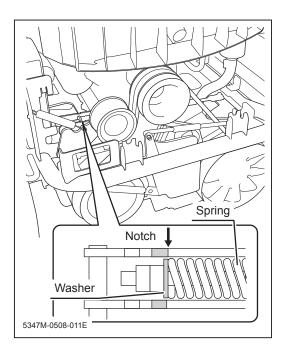
• Adjust belt tension properly. The improperly tensioned belt may reduce performance and its service life.

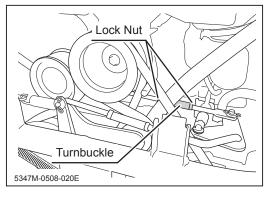
NOTE -

- The V-belt stretches (breaks in) when it is new. Inspect and adjust the V-belt after the first day's (4 hours') use.
- For a longer service life, inspect and adjust (as necessary) the V-belt as the daily pre-start up checks.

Inspecting and Adjusting

- 1. Remove the engine hood, rear cover and rear bumper.
- 2. Turn the mower clutch lever to [ON].
- Inspect the condition of the V-belt to be free of damages or wear. Replace if damaged or worn. Contact your CANYCOM representative for replacement.





4. Visually inspect if the washer that holds the spring is aligned with the right side of the notches on the plates as shown.

NOTE -

- There are two sets of notches. Refer to the illustration on the left.
- 5. If the washer is not aligned with the notches, loosen the lock nut and adjust the turnbuckle.
- 6. Tighten the lock nut.

NOTE -

- If the washer cannot be aligned to the notches by adjusting the turnbuckle (V-belt tension cannot be set within the specified range), the V-belt needs to be replaced. Contact your CANYCOM representative for replacement.
- 7. Reinstall the rear cover, engine hood, and rear bumper.

Mower Brake

▲ DANGER!

• Never place any part of body under cutting blade shield when mower is running.

AWARNING!

• Do not allow bystanders to come near machine when inspecting mower brake.

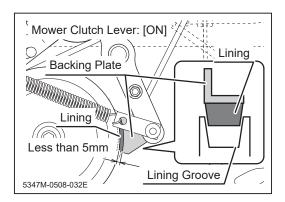
Ride on machine when testing mower brake.

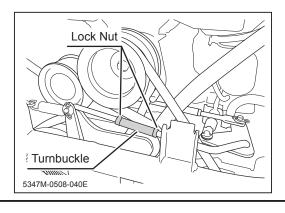
AWARNING!

- Never attempt to check the performance of the mower brake with the cutting blade shield open. Stones or rocks can be thrown and cause damage to surrounding properties or persons.
- Inspect the mower brake whenever the performance of it seems inadequate.
- Stop the engine when adjusting the mower brake.

Inspecting

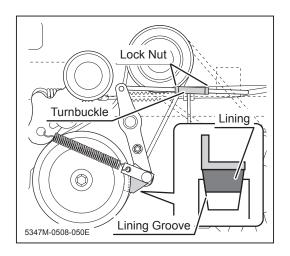
- 1. Start the engine.
- Turn the throttle lever to [(fast) to raise the engine speed.
- 3. Move the cutting height adjust lever to [150].
- 4. Move the mower clutch lever to [ON] to run the mower.
- 5. Move the mower clutch lever to [OFF] to observe if the mower stops. If it does not stop (if it keeps turning by inertia), adjust the mower brake. To see if the mower is running or not, observe the rotating sound of the mower, or open the engine hood to observe the rotation of the mower V-belt. Avoid observing inside the cutting blade shield directly.





Adjusting

- Remove the engine hood, rear cover, and bumper.
- 2. Move the mower clutch lever to [ON].
- Visually inspect if the brake lining is not in contact with the lining groove on the pulley.
 Also inspect if the gap between the backing plate and the pulley is 5mm or less.
- 4. If the lining is in contact with the lining groove, or the gap between the backing plate and the pulley is greater than 5mm, adjust the turnbuckle.

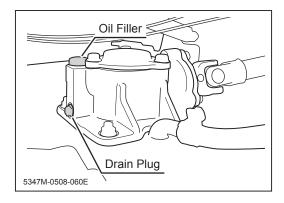


- 5. Move the mower clutch lever to [OFF].
- 6. Visually inspect if the lining is firmly in contact with the lining groove on the pulley.
- 7. Shake the turnbuckle to see if there is some play.
- 8. If the lining is not firmly in contact with the groove, or the turnbuckle is too tight, readjust the turnbuckle.
- Move the mower clutch lever [ON] and [OFF] several times, then perform checks 4 through
 Adjust as necessary.
- 10. Reinstall the rear cover, engine hood, and bumper.

Mower Gearbox Oil

NOTE -

• Oil to use and capacity: Page 46.



- 1. Park the machine on a horizontal ground.
- 2. Move the cutting height adjust lever to the lowest position.
- 3. Have an appropriate oil drain pan.
- 4. Remove the drain plug to drain gearbox oil.

NOTE -

- Removing the oil filler cap helps drain oil.
- 5. Install the drain plug back in place.
- 6. Remove the filler cap and fill the specified amount of correct oil into the filler.

NOTE -

- If it is difficult to reach to the filler, use an oil jug or remove the seat and the plate under the seat.
- 7. Install the filler cap back in place and move the cutting height adjust lever to the highest position.

Electrical System

AWARNING!

- Always stop the engine and remove the ignition key when servicing the electrical system.
- Shock hazard. Do not handle the electrical components with wet hands.

Battery

AWARNING!

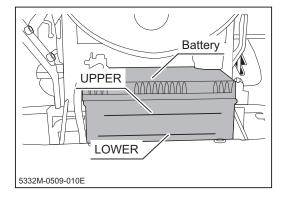
- Never charge a battery when the fluid level is below the "lower level" line. Charging a battery with insufficient fluid may shorten the battery life or cause an explosion.
- Battery fluid (diluted sulfuric acid) is corrosive and causes severe burns. Be extremely cautious when handling battery fluid. If battery fluid is split on clothes, immediately rinse with plenty of water. If split on skin or in an eye, immediately rinse with plenty of water and promptly consult a physician.
- Explosion hazard. Keep open flame or spark away from the battery. Hydrogen gas generated during charging is extremely explosive.
- Never fill battery fluid beyond "upper level" line. Battery fluid may spill and cause damage to the machine or injury to person.
- Always disconnect the (-) terminal first, and connect the (+) terminal first. When connecting, connect the (+) terminal first, then connect the (-) terminal. Disconnecting or connecting in the wrong order may cause a short circuit.
- When installing a battery, make certain to connect the (+) and (-) terminals to their original positions. Avoid contact between the terminals and other surrounding parts.
- Use wet cloth to clean battery. Dry cloth may generate static electricity, which may cause explosion.

AWARNING!

• Shock hazard: Do not touch the terminals.

ACAUTION!

- Always remove the battery from the machine before charging. Failure to do so causes damage to electrical the components and wiring.
- Follow the battery charger user's manual when charging.
- When filling battery fluid, do not fill above [Upper Limit] line. Battery fluid can spill over and damage painted surfaces or corrode metal parts.

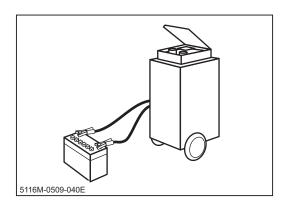


Inspecting

- 1. Park the machine on a level ground.
- Remove the front cover, tray, and head light unit.
- Visually inspect that the battery fluid level is between the "UPPER" and "LOWER" level lines.
- 4. If the fluid level is near or below "LOWER" level line, fill.
- 5. Install the head light unit, tray, and front cover back in place.

NOTE -

 The instruction for removing the head light and battery is indicated on the back of the front cover.



Charging

- 1. Remove front cover.
- 2. Remove battery from machine.
- 3. Follow instructions in battery charger user's manual to charge battery.
- 4. When battery is fully charged, install battery back in place.
- 5. Install front cover back in place.

Fuses

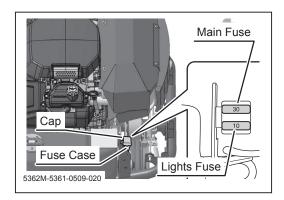
ACAUTION!

- If a fuse blows, investigate the cause before replacing.
- · Always replace a fuse with one of the correct rating.

NOTE -

• Main Fuse: 30A. Lights Fuse: 10A

• Replacement Fuse: Page 49.



- 1. Open engine hood.
- 2. Open fuse case cap. Remove fuse and visually inspect it. If it is blown, replace it with new one of the same rating.
- 3. Install fuse.
- 4. Install fuse case cap.
- 5. Close engine hood.

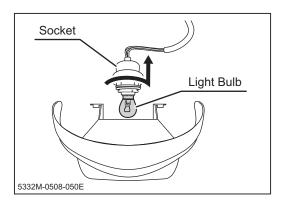
Light Bulbs

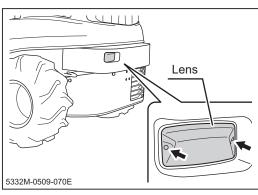
▲CAUTION!

- When a light bulb is burnt out, replace it with a new bulb.
- When replacing, always use a bulb of the correct rating. A wrong bulb may cause malfunction or damage to the electrical system.
- Do not touch the bulb when it is hot. It may cause burns.
- Do not touch the glass part of the light bulb directly with fingers. It may reduce service life.

NOTE -

• Light Bulbs to use: Page 49.





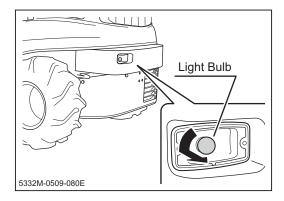
Head Light

- 1. Remove the front cover and head light unit.
- 2. Turn the socket to remove.
- 3. Replace with a new light bulb.
- 4. Install the socket.
- 5. Install the head light and front cover.

Rear Light (AWD Models)

1. Remove the 2 screws and remove the lens.

Maintenance



- 2. Replace with a new light bulb.
- 3. Install the lens back in place.

After Use Care

Cutting System

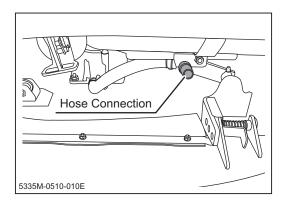
▲ DANGER!

• Never place any part of the body under the cutting blade shield when mower is running.

AWARNING!

- Do not allow bystanders to come near the machine when the mower is running.
- Always stay on the machine when performing this operation
- Never attempt to clean the cutting system with the cutting blade shield open.
 Stones or rocks can be thrown and cause damage to surrounding properties or persons.
- Turn the mower clutch to [ON] only when cleaning. Keep it in [OFF] position all the other times.

Maintenance



- 1. Park the machine.
- 2. Set the cutting height to about 50mm.
- 3. Connect a hose to the hose connection. Run water through the hose.
- 4. Start the engine.
- 5. Turn the throttle lever to [(fast) to raise the engine speed.
- 6. Move the mower clutch lever to [ON] to run the mower to clean.
- 7. When cleaning is done, move the mower clutch lever to [OFF] to stop the mower.
- 8. Move the cutting height adjust lever to [150].
- 9. Turn the throttle lever to [) (slow) to lower the engine speed.
- 10. Stop the machine and remove the hose.

NOTE -

• Do not set the cutting height too low. The cutting blades can hit the ground.

After Normal Use

AWARNING!

- Fire hazard; clean the machine of cut grass and similar material after use. Cut grass that is accumulated on the machine can catch fire.
- Clean the cooling air intake in front of the engine. If the cooling air intake is clogged or blocked, it causes overheating, resulting in damages to the machine.

ACAUTION!

- Do not wash the engine or control panel with running water; water may enter inside and cause rust or damage.
- Always clean the cutting blades and the blade pins after use. Dirt or foreign matters may solidify or corrode the blades and make it difficult to remove them.
- 1. Clean the machine; wash off dirt, mud, and remove grass and other foreign materials after use.
- 2. Clean the cutting system. (See page 77)
- 3. Check if the cutting blades can be rotated after removing foreign objects such as mud.
- 4. If the machine is to be left outside, cover the machine with a protective, water-proof covering after it is cooled off.

After Cold Weather Use

AWARNING!

• Fire hazard; clean the machine of cut grass and similar material after use. Cut grass that is accumulated on the machine can catch fire.

ACAUTION!

- Do not wash the engine or control panel with running water; water may enter inside and cause rust or damage.
- Clean the machine after use; dirt or foreign objects may freeze and cause damage.
- Do not attempt to move the machine when it becomes inoperable due to freezing
- 1. Clean the machine; wash off dirt, mud, and remove grass and other foreign materials after use.
- 2. Park the machine on a paved or firm, dry surface, or on a bed of lumber.
- 3. If the machine is to be left outside, cover the machine with a protective, water-proof covering after it is cooled off.

Storage

AWARNING!

• Fire hazard; do not store the machine where there is a possibility of ignition.

ACAUTION!

- Do not wash the engine or control panel with running water; water may enter inside and cause rust or damage.
- Clean the machine before storage; dirt or foreign objects may freeze and cause damage.
- Do not store the machine in a humid, dusty, or hot place.
- 1. Park the machine.
- 2. Clean the machine; wash off dirt, mud, and remove grass and other foreign materials after use.
- 3. Check the machine according to **Maintenance Schedule** (Page 42). If a problem is found, repair.
- 4. Wipe clean the steel parts with oiled cloth and grease the specified greasing points.
- Change engine oil.
- 6. Clean the air filter element.
- 7. Drain fuel from the carburetor and fuel tank.
- 8. Turn off (O) the battery off switch. Inspect and fill battery oil.
- 9. Inflate the tires to a pressure slightly higher than the specified value. Chock front and back of the front wheels.
- 10. Remove the battery from the machine. Inspect, fill, and charge the battery.
- 11. Cover the machine with a protective, water-proof covering after the machine is cooled off.

NOTE -

- The battery discharges even when it is not in use. A battery may hold charge for a few months, but it is a good practice to charge the battery before it goes flat; it will extend battery life.
- Refer to Engine Manual for detailed instructions on preparing the engine for storage.

Troubleshooting

- If any malfunction or abnormal condition is found, immediately stop using the machine and take an appropriate measure according to the Troubleshooting chart below. If the malfunction or abnormal condition is not listed in the chart, or the suggested measure does not solve the problem, consult with your CANYCOM representative.
- Some corrective measures listed below require special knowledge and/or equipment. Please contact your CANYCOM representative in such a case.

Area	Malfunction	Possible Cause	Corrective Measure	Ref.
		Out of fuel.	→Fill fuel.	Page 17
		Excessive fuel in the	→Wait a while and try	
		engine.	starting again.	
		Battery capacity is	→Add battery fluid.	Page 73
		insufficient.	→Charge battery.	Page 73
			→Replace battery.	
		Battery cable is	→Connect battery cable.	
		disconnected.		
	Engine does not start, or	Insufficient or wrong oil.	→Fill or change oil.	Page 55
	is difficult to start	District an demonstrated an auto	Class as sanlage analy	Dogo FO
		Dirty or damaged spark	→Clean or replace spark	Page 58
		other (other than the	plug. →Follow the instructions	Page 24
		above).	in "Starting" to restart.	raye 24
Engine		above).	If problem persists,	
			please contact	
			your CANYCOM	
		1	representative.	D 55
		Insufficient amount of oil.	→Fill oil.	Page 55
	Oil pressure warning	Other (other than the	→Please contact	
	light stays on	above).	your CANYCOM	
		,	representative.	
		Out of fuel.	→Fill fuel.	Page 17
		Choke valve closed.	→Open choke valve.	
	Engine stalls.	Other (other than the	→Please contact	
		above).	your CANYCOM	
			representative.	

Troubleshooting

Area	Malfunction	Possible Cause	Corrective Measure	Ref.
		Out of fuel	→Fill fuel.	Page 17
	Engine stone abruntly	Other (other than the	→Please contact	
	Engine stops abruptly.	above).	your CANYCOM	
			representative.	
		Insufficient intake air	→Clean or replace air	Page 57
		(clogged air filter).	filter element.	
	Idling is not stable.	Other (other than the	→Please contact	
		above).	your CANYCOM	
			representative.	
		Bad fuel	→Change fuel.	
		Insufficient intake air	→Clean or replace air	Page 57
		(clogged air filter).	filter element.	
	Poor power or	Loose drive belt.	→Adjust	Page 64
	acceleration	Excessive load	→Reduce load.	
		Other (other than the	→Please contact	
		above).	your CANYCOM	
			representative.	
	Irregular noise or		→Please contact	
	vibration from or around		your CANYCOM	
Engine	the engine		representative.	
	Excessive oil		→Please contact	
	consumption		your CANYCOM	
	Consumption		representative.	
		Insufficient amount of	→Fill oil.	Page 55
	Engine overheats	engine oil.		
		Rotating screen or	→Clean.	
		cooling fins clogged or		
		blocked.		
		Clogged air filter.	→Clean or replace air	Page 57
	Excessive fuel		filter element.	
	consumption	Other (other than the	→Please contact	
	Consumption	above).	your CANYCOM	
			representative.	
		Choke valve closed.	→Open hoke valve.	
		Clogged air filter.	→Clean or replace air	Page 57
	Black smoke comes out		filter element.	
	of exhaust	Other (other than the	→Please contact	
		above).	your CANYCOM	
			representative.	

Area	Malfunction	Possible Cause	Corrective Measure	Ref.
		Bad fuel.	→Change fuel.	
		Engine oil level is too	→Adjust oil level.	Page 55
	White or blue smoke	high.		
Engine	comes out of exhaust	Wrong engine oil.	→Change oil.	Page 55
	Comes out of exhaust	Other (other than the	→Please contact	
		above).	your CANYCOM	
			representative.	
		Insufficient or	→Add or change oil.	Page 61
		deteriorated HST oil.		
	Machine does not move	Parking brake is applied	→Release parking	
	when drive lever or pedal		brake.	
	is operated.	V-belt is loose.	→Adjust V-belt.	Page 65
	is operated.	Other (other than the	→Please contact	
		above).	your CANYCOM	
			representative.	
	Machine moves when	HST is out of neutral.	→Please contact	
	drive lever or pedal is in		your CANYCOM	
	neutral position.		representative.	
		Transmission is not	→Shift firmly.	
	Transmission jumps out	positively shifted.		
	of gear.	Other (other than the	→Please contact	
Drive Train	of geal.	above).	your CANYCOM	
			representative.	
		Tires are not properly	→Adjust tire pressure.	Page 59
		inflated.		
	Machine does not turn	Differential lock	→Disengage differential	
	smoothly.	engaged.	lock	
		Other (other than the	→Please contact	
		above).	your CANYCOM	
			representative.	
		Tie-rod is not properly	→Please contact	
		adjusted.	your CANYCOM	
	Machine does not run		representative.	
	straight.	Other (other than the	→Please contact	
		above).	your CANYCOM	
			representative.	

Troubleshooting

Area	Malfunction	Possible Cause	Corrective Measure	Ref.
		Brake is not properly	→Adjust.	Page 65
	Parking brake does not	adjusted.		
	work well, or machine	Brake is wet with water.	→Apply brake a few	
Brake	pulls to one side when		times to dry.	
	braked.	Other (other than the	→Please contact	
	branca.	above).	your CANYCOM	
			representative.	
		Improperly inflated tires.	→Adjust tire pressure.	Page 59
Chassis	Machine vibrates	Other (other than the	→Please contact	
Onacolo	abnormally.	above).	your CANYCOM	
			representative.	
		Blown bulb.	→Replace bulb.	Page 76
Electrical	Head light does not	Blown fuse.	→Replace fuse.	Page 75
System	illuminate properly.	Other (other than the	→Please contact	
Cystom	illuminate property.	above).	your CANYCOM	
			representative.	
	Mower does not run	Mower drive belt is	→Replace.	
		severed.		
	Mower does not stop	Mower brake lining is	→Replace.	
		worn.		
	Mower drive belt slips.	Belt is loose.	→Adjust belt tension.	Page 69
		Belt is worn.	→Replace.	Page 69
	'	Cut grass or vines	→Clean.	Page 77
		accumulate in the mower.		
		Cutting blade is damaged	→Replace cutting	Page 66
Cutting		or lost.	blades.	
System	Abnormal vibration	Foreign object is caught	→Remove or clean	
	occurs when cutting	by cutting blade.	foreign object.	
	blade is rotated	Other (other than the	→Please contact	
		above).	your CANYCOM	
			representative.	
		Grass is wet.	→Cut when grass is dry.	
		Grass is too long.	→Cut in several steps at	
	Cut grass is not		different heights.	
	discharged properly.	Cutting height is too low.	→Raise cutting height.	
		Engine speed is too low.	→Raise engine speed.	
		Driving speed is too high.	→Drive slow.	

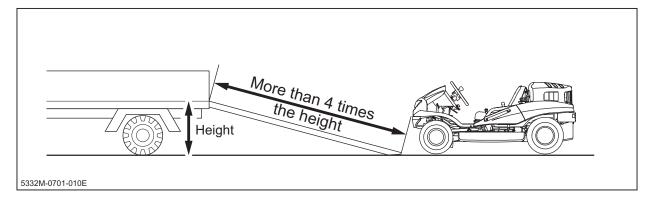
Area	Malfunction	Possible Cause	Corrective Measure	Ref.
		Grass is too long.	→Cut in several steps at	
			different heights.	
		Engine speed is too low.	→Raise engine speed.	
		Driving speed is too high.	→Drive slow.	
	Some grass is left uncut.	Cutting blade is damaged	→Replace.	
		or worn.		
		Cut grass or vines	→Clean.	Page 77
		accumulate in the		
		mower.		
Cutting		Cutting height is too low.	→Raise cutting height.	
System		Machine turns too fast.	→Turn slowly.	
	Cutting blade cuts into	Work site has	→Raise cutting height.	
	ground.	undulations.		
		Cutting blade or stay is	→Replace.	
		bent.		
		Engine speed is too low.	→Raise engine speed.	
		Driving speed is too high.	→Drive slow.	
	Cutter load is too high.	Cut grass or vines are	→Untangle.	
		tangled to cutting blade		
		axle.		

Hauling

Loading and Unloading

AWARNING!

- Park the transporter (truck, trailer) on a level ground. Always apply parking brake and use chocks to secure the wheels.
- Do not allow bystanders to come close to the machine or the transporter when loading or unloading the machine.
- Use only the loading ramps with sufficient strength (to withstand the combined weight of the machine and the operator), width (more than twice the width of the tire.), and length (more than 4 times the height of the bed of the transporter), and have anti-slip ramp surfaces.
- Secure the hooks of the loading ramps firmly and flush with the bed.
- Move slowly forward when loading onto, and move slowly backward when unloading off of the transporter. Pay special care when going over the joint between the bed and the ramps; the machine may tip.
- Do not turn on the loading ramps. The machine may fall.
- Tie down the machine securely. Make sure the machine does not move around.



- 1. Park the transporter on a level ground. Apply parking brake of the transporter and secure the wheels with chocks.
- 2. Place loading ramps. Secure hooks of ramps firmly and flush with the bed of the transporter.

- 3. Set cutting height adjust lever to [150]. Shift auxiliary transmission shift lever to [L] (low speed) and drive machine slowly forward onto the bed. Pay attention not to hit the loading lamp or the bed when loading on a transporter.
- 4. Park machine according to the instructions in **"Parking"** (Page 34). Tie the machine with rope or tie-down belts and secure it onto the bed of the transporter securely.

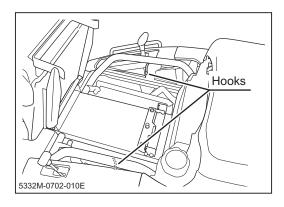
Hoisting

▲ DANGER!

• When hoisting the machine, never go under the machine. The machine can fall, resulting in death or injury.

AWARNING!

- License or certification is required to operate a crane. Check your local regulations.
- Use hoisting sling of sufficient strength. Always use the slings of the same length when more than one is used.
- Pay special attention to the center of gravity and the balance of the machine when hoisting.
- Always stop the engine before hoisting. Never start the engine when hoisted.



- 1. Raise the seat.
- 2. Attach hoisting slings to the 2 lift hooks and hoist the machine.

NOISE LEVEL

Model	Enç	LwA	
Туре	Type Speed rpm		LWA
CMX2402	Honda GX690	3300 rpm	100 dB (A)

VIBRATION

Model	Vibration		
iviodei	Hand-arm	Whole body	
CMX2402	3.5m/s² (k=1.0)	0.5m/s² (k=0.16) 1.4awy	

Values determined according to ISO 5395. K:Uncertainty(EN12096:1997)

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