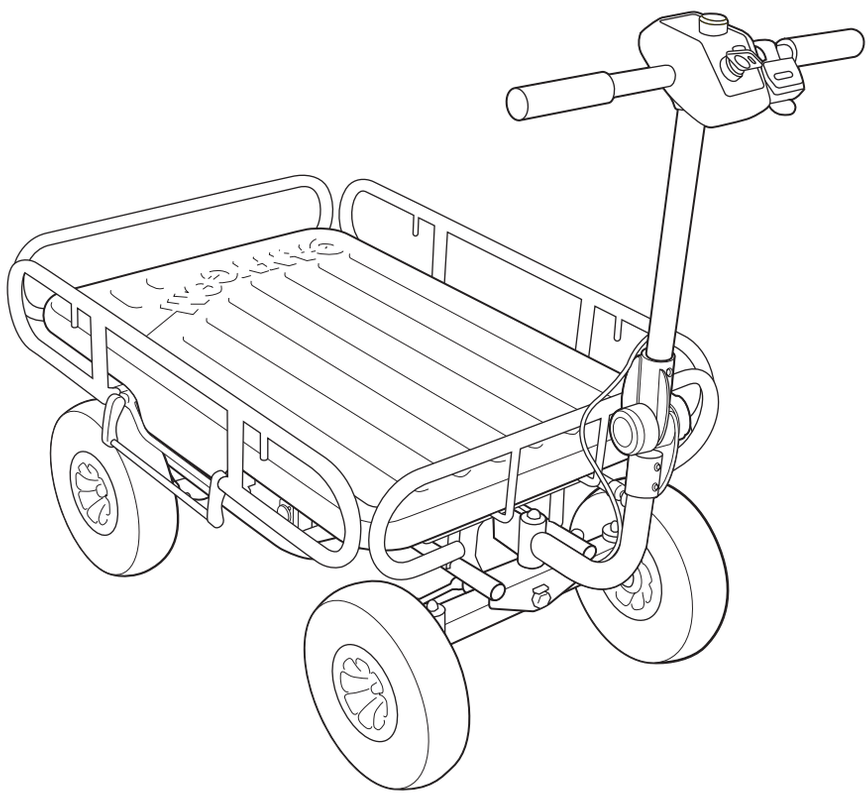
CANYCOM

Electric Multi-Cart

JASPER Electric Utility Cart **EJ 20**

Operator's Manual



⚠WARNING!

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.

4104 5111 000

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Authorized Dealer

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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 this manual thoroughly before operating this product.

⚠WARNING!

- **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 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: hauling. 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 safety covers removed or open. A serious accident could result.**

⚠CAUTION!

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

Notice to Owner

⚠CAUTION!
• **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

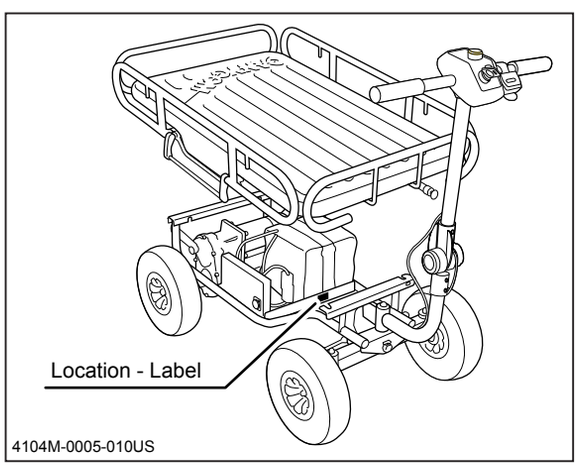
Warranty

CHIKUSUI CANYCOM, INC. provides you a warranty through Canycom U.S.A.

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 and serial number handy at the time of contact. The model and serial number can be found on the model label as shown below.

Location of Model Label



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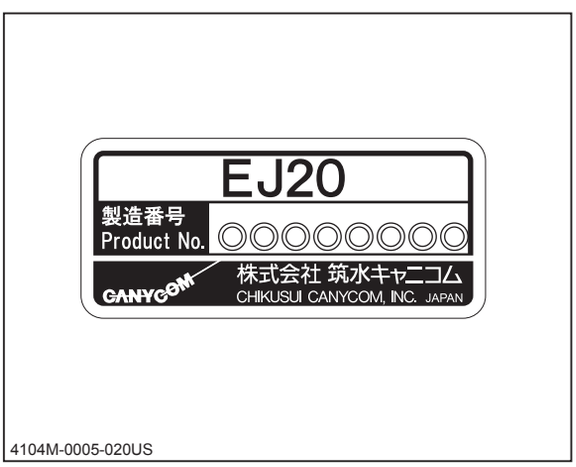
Model Label



4104M-0005-020US

Availability of Spare Parts

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

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Troubleshooting 31

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Warranty

Warranty Certificate is attached at the end of this manual.

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

Appendix

• Operator's Manual for the Engine

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

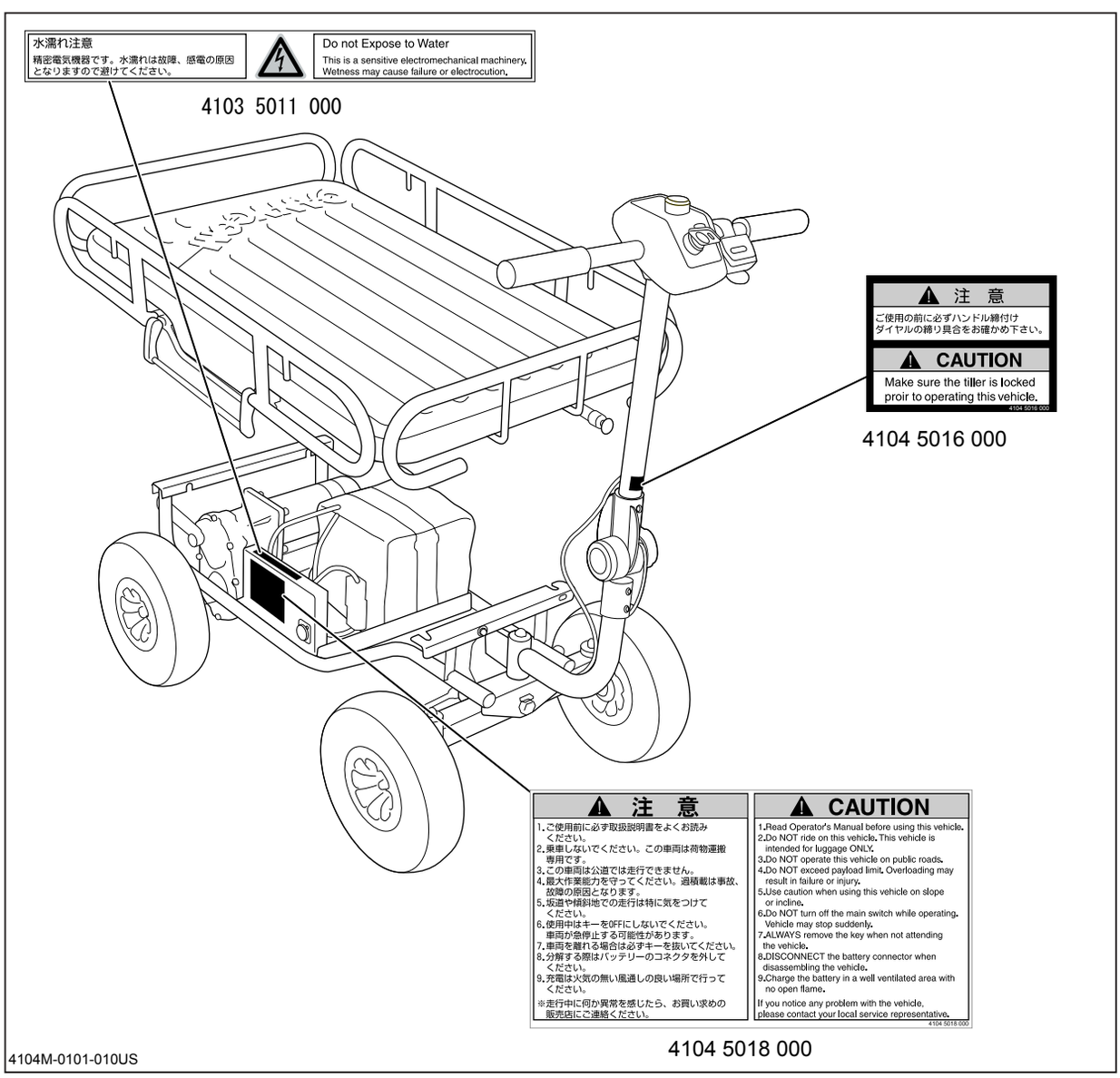
Safety Labels

The safety label shown below is attached to machine. See the illustration below for the location and the content of the label on machine.

- **Locate the warning label attached to this machine. Read and follow the instructions and precautions in it. Failure to do so could result in serious injury or death to the operator or bystanders.**

- **Keep the label clean and legible. Do not use solvents or gasoline to clean the label.**

- **Replace the label immediately if it has been removed, has 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.**



Safety Precautions

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

Training

All operators should be familiar with the following issues when using this machine. In case machine is used by a hired worker or is rented, the employer or renter shall give practical instructions covering the following issues to the user.

- **It is essential to familiarize yourself with controls, safety labels and the proper use of machine.**

- **Never allow people unfamiliar with these instructions to operate or service machine. Do not let anyone under 18 years of age to operate this machine. Local regulations may restrict the minimum age for operating a machine. Consult your local authority.**

- **The operator is responsible for the accidents or hazards caused to other people or their properties as a result o operating this machine.**

- **Always keep in mind that care and concentration is required when working with a load-carrying machine.**

- **Loss of control on a slope cannot be regained by the application of brake. Main reasons for the loss of control are:**

→ insufficient grip of tires.
→ excessive speed.
→ misjudging of the ground conditions, especially inclination.
→ excessive load.
→ incorrect distribution of load.

Preparation

- **Always wear protective footwear, long trousers, hardhat, safety glasses and ear protection when operating or servicing machine. Proper clothing will minimize the chance of injury. Do not operate machine if you have long hair, loose clothing, or jewelry; all of which can get tangled in moving parts. Do not operate machine barefoot or with open sandals.**

- **Prepare beforehand the working rules and procedures such as signaling and trafic control for the work place. Following such rules will reduce the risk of accidents.**

- **Perform daily pre-startup inspection (see Preparation, page 12) before starting machine. Repair or replace damaged parts before starting machine.**

- **Never handle oil or grease, service machine or recharge battery in the presence of fire or spark.**

Operation

This machine is intended for carrying solid stuff, luggage and similar objects. Carrying other kinds of objects may damage machine. Avoid carrying fluid stuff in order to keep motor away from troubles.

The stability of machine is affected by speed, rate of steering, terrain and load. Always pay close attention to these factors or loss of control or tipping over could occur, resulting in property damage, serious injury or death.

General Driving

- **Do not operate machine under the influence of alcohol or drugs. Do not operate machine when you are tired, ill, or not fit to operate machine.**

- **Before starting and moving machine, scan around your surroundings and make sure all persons and other vehicles are a safe distance away from machine.**

- **Do not drive machine in the rain or through the ground surface with pool of water in order to keep machine from getting wet.**

General Driving

- Always check for obstacles before operating on new terrain.
- Always travel slowly and use extra caution when operating on unfamiliar terrain. Be alert when traveling on changing terrain.
- Drive at a safe speed, taking into account surface gradient, surface conditions and load.
- Do not make sudden maneuvers. Sudden start, stop, or turn can make machine lose control and could cause a tip over. Be especially cautious when traveling on soft or wet ground.
- 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 person behind machine when backing up. Make certain that it is safe to back up, then 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 the next page.
- Never attempt to drive over a large obstacle such as rock or fallen tree.
- Do not operate machine near the edge of a cliff, an overhang or a landslide area.
- Use an observer to help direct machine when visibility is poor, terrain is rugged or hilly, or maneuvering room is limited. An observer should be able to see machine and its immediate surroundings, and should give pre-arranged signals to direct the operator.

Driving on a Slope

- **Driving on a slope can be dangerous. It can result in a tip over and cause serious injury or death. Always follow proper procedures for driving on a slope as described in this manual.**

- **When carrying no load, do NOT use machine on a slope steeper than 15 degrees. When carrying a load, observe the load limit according to the inclination (see Loading and Driving with the Load, page 6).**

- **Check terrain carefully before attempting to drive on a slope. Driving on a slope in a wrong manner can cause a loss of control or a tip over.**

- **Never drive on a slope that you are not comfortable with. Avoid a slope that is so rough, slippery, or loose that you feel like you could tip over.**

- **Do not ride when you are driving down a slope. When driving down a slope, stop and turn the main switch to [LO]. Go down at a reduced speed with the operator walking behind machine. Use motor speed to help keep machine speed low.**

- **When driving up a slope, proceed at a steady rate of speed and accelerator position.**

- **Never move accelerator lever suddenly.**

- **Drive straight up or down a slope. Avoid turning on a slope. Avoid driving machine across a slope.**

- **If motor loses traction during a climb and cannot make it to the top of a slope, do not try to turn machine around. Carefully back down slowly, straight down a slope.**

- **When going over the top of a slope, go slow; an obstacle, a sharp drop, another vehicle or person could be on the other side of the crest.**

- **Without a load, drive machine backwards up a slope (Steering wheel toward the top) when climbing, and drive it forward when going down a slope.**

- **With a load, drive machine forward up a slope (Steering wheel away from the top) when climbing, and drive it backwards when going down a slope. Be especially cautious when operating on a slope with a load.**

Loading and Driving with a Load

- **The maximum payload for this machine is 440lbs (200kg). Do not exceed this maximum payload under any circumstance.**

- **Do not operate on a slope steeper than 15 degrees when carrying a load. Do not carry more than 220lbs (100kg) when operating on a slope between 5 and 10 degrees.**

- **Place a load on loading deck so that the weight is evenly distributed. When carrying a load, strap it to loading deck to prevent it from shifting. Ensure that the load does not obstruct the operator's field of view.**

- **When carrying a load, drive at a reduced speed. Allow greater distance for braking.**

- **Before crossing a bridge or an overpass, make certain that the total combined weight of machine, load and operator is within the stated weight limit of the bridge or the overpass. Then, proceed carefully and at a constant speed.**

- **Do not ride on any part of machine. Do NOT carry any other person on this machine at any time.**

Parking

- **Park machine on a flat, level and stable surface. Do not park in a dangerous place. Never park machine on a slope steeper than 15 degrees. Avoid parking on a slope less than 15 degrees. If parking on a slope less than 15 degrees is unavoidable, block wheels at the lower end of machine with chocks. Make sure to turn the break lever to [Drive] position.**

→ **Do not park sideways on a slope.**

- **Observe all the previous precautions for general driving, driving on a slope, loading and driving with a load, and transportation.**

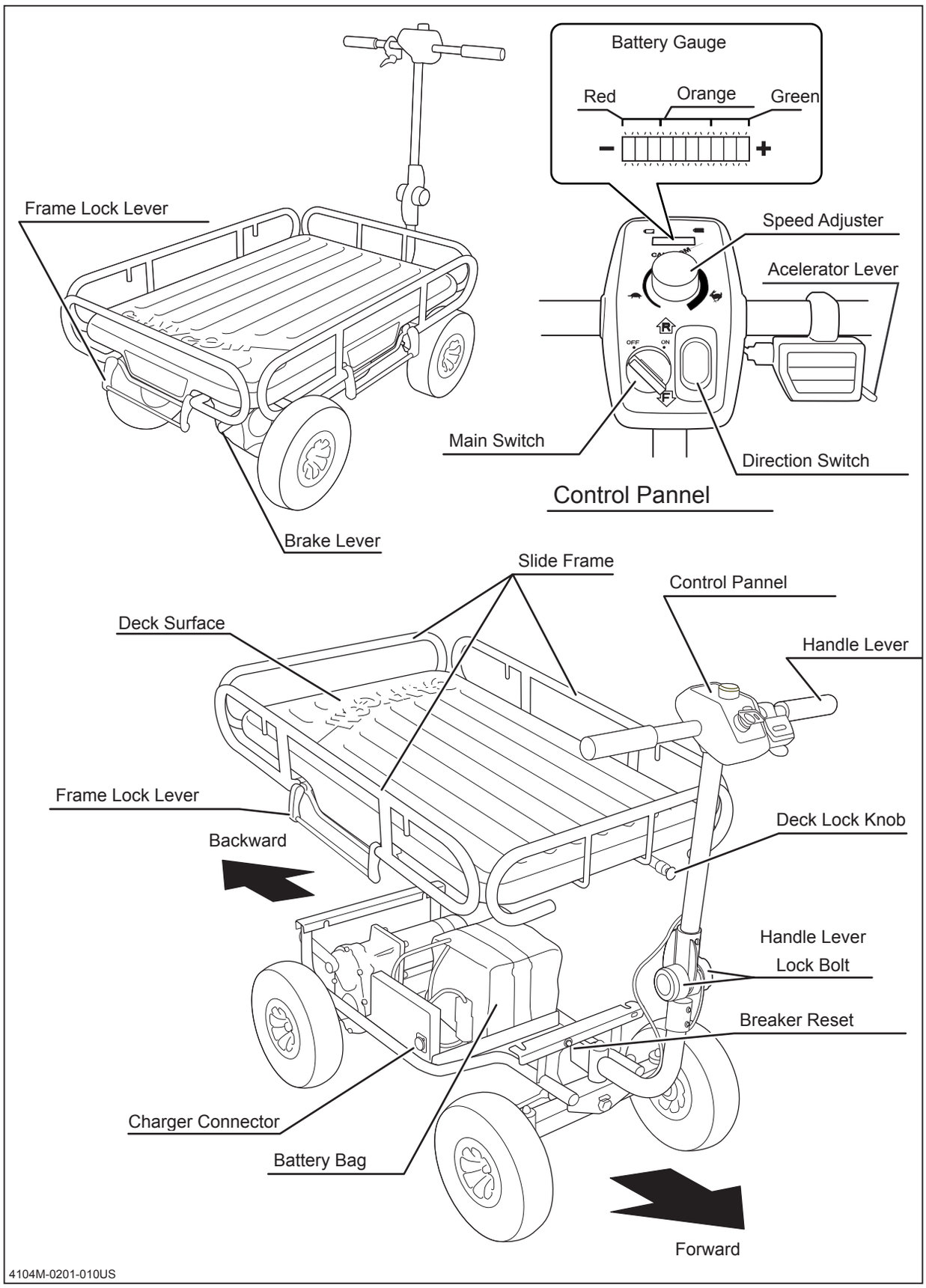
Servicing

- **Only the qualified technician should service the electrical components. If you are not a qualified technician, contact your local CANYCOM representative.**

- **Do not service machine when battery is being charged.**

- **Disconnect the negative (-) terminal cable from battery before you service machine.**

Name and Function of Controls



Handle Lever . . . . . Handle Lever is used to steer machine.

Accelerator Lever . . . . . Accelerator Lever is used to control machine speed.

Main Switch . . . . . Turns on or off the entire machine.

Speed Adjuster . . . . . Adjust machine speed.

Direction Switch . . . . . Selects traveling direction between forward and backward.

Battery Bag . . . . . The battery is in the bag and can charge the battery itself.

Battery Gauge . . . . . Indicates the level of charge and charging status of battery.

Brake Lever . . . . . Selecting Brake Lever to [Drive] position engages electromagnetic clutch. In this position, electromagnetic brake is applied until accelerator lever is operated. Selecting it to [Free] position disengages electromagnetic clutch.

Deck Surface . . . . . Load stuffs to carry with.

Slide Frame . . . . . Slide and adjust depending on the size of load.

Frame Lock Lever . . . . . Use this lever when you lock or unlock slide frame. Raising lever to unlock, pull down to lock slide frame.

Loading Deck Lock Knob . . . . Loading Deck Lock Knob is used to lock or unlock loading deck.

Charger Connector . . . . . Charger Connector is used to charge battery on board.

Circuit Breaker Reset . . . . . Circuit Breaker Reset is used to reset circuit breaker when it has tripped due to overload.

Handle Lever Lock Bolt . . . . . Use this bolt to adjust the angle of handle lever.

3 Specifications

Product Specifications

⚠CAUTION!

· Use this product properly after understanding its specifications thoroughly.

Model and Type				EJ20
Machine Mass (incld. batteries)			kg (lbs)	62 (136)
Maximum Payload			kg (lbs)	200 (440)
Dimensions	Overall Length		in. (mm)	40.9 (1040)
	Overall Width		in. (mm)	24 (610)
	Overall Height		in. (mm)	37 (940)
	Wheelbase		in. (mm)	23.6 (600)
	Tread	Front	in. (mm)	18.1 (460)
		Rear	in. (mm)	19.2 (488)
	Ground Clearance		in. (mm)	2.4 (60)
	Loading Deck Height		in. (mm)	360 (360)
Loading Deck	Type			Slide Frame
	Size	Length	in. (mm)	32.0 (813) [35.9 (913)]
		Width	in. (mm)	22.9 (581) [30.0 (761)]
		Height	in. (mm)	3.5 (88)
Drive Train	Battery Capacity (5hr Ratio)		V/AH	12V/21AH X2
	Motor (Rated Output for 30min.)			DC24V Brushless motor, 350W x 1
	Drive System			2 rear wheels, direct-drive system (w/ differential)
	Break System			Combination regenerative-electromagnetic
	Battery Charger			Microcomputer controlled
	Tire	Front		3.00 - 4 (255 dia. puncture-proof)
		Rear		3.00 - 4 (255 dia. puncture-proof)
Electrical	Maximum Speed (FWD/REV)		km/h (mph)	4.5 (Forward) / 2.9 (Reverse)
	Gradeability		Degrees	15 (unloaded)
	Minimum Turning Radius		m (ft.)	1 (3.9)

The [ ] part is the size, when slide frame is extended.

Specification will change without notice for emprovements.

Contents of the Tool Bag

No.	Content	Quantitiy	Note
1	Machine	1	
2	Charger	1	
3	Power Cable	1	
4	Key	2	
5	Operator's Manual	1	This Manual
6	Warranty	1	

Preparation

Pre-start up Inspection

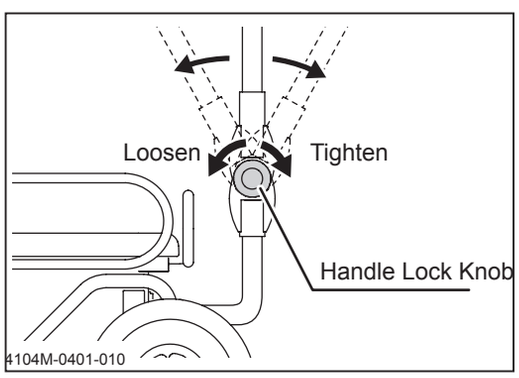
Always perform an inspection before use.

Refer to **[Maintenance Schedule]** (page 23) for the inspection schedule and procedure.

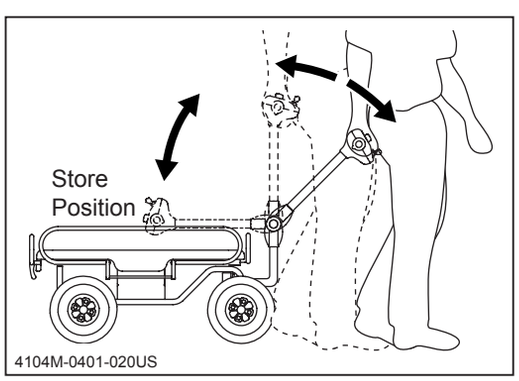
Adjusting Handle Lever

⚠CAUTION!

- **When you adjust handle lever, tight Handle Lock Knob to fix handle lever properly. If the knob is loose, then handle lever will fall over.**



1. Turn knob to the left to loosen handle lever.



2. Adjust the angle of handle lever.
3. Turn knob to the right to tight handle lever.

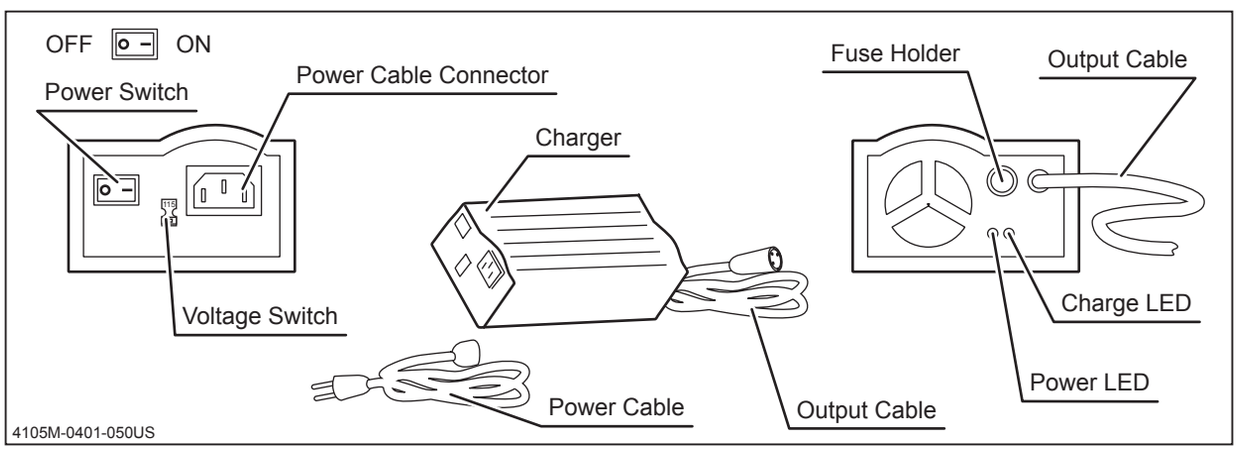
NOTE

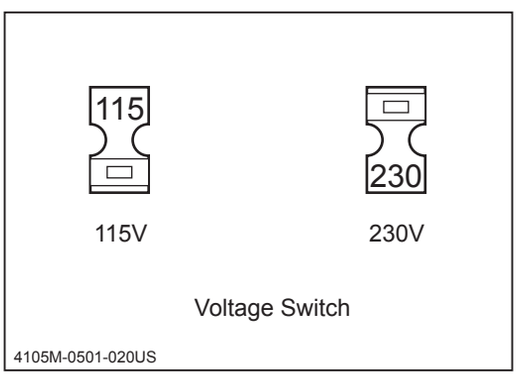
- **Handle Lever is in store position when machine is purchased. Adjust the angle of handle lever position to ease operation.**

Specification and Setting of Charger

⚠WARNING!

- **Set the voltage of charger propery, wrong voltage setting may damage chager**





Checking the voltage of charger

Charger has a voltage switch. Set it to suit the voltage of your power line.

Charging Battery

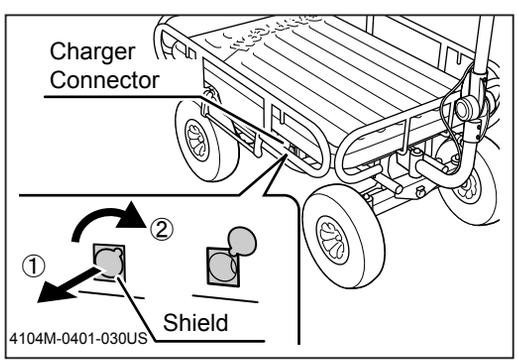
⚠WARNING!

- **Keep fire and spark away from battery. Hydrogen gas generated from battery is flamable**
- **If battery fluid is splashed to clothes or skin, immidiately wash out with plenty of water. If battery fluid enters into an eye, immidiately wash out with plenty of water then see a doctor.**

⚠CAUTION!

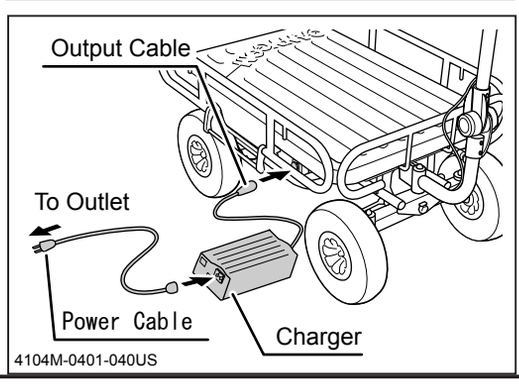
- **When servicing or replaceing battery, disconnect charger and make sure to turn main switch to the [OFF] position.**
- **If the charger works abnormally, turn it off and check connection.**

You can chargebattery even battery is installed on machine or uninstalled from machine.

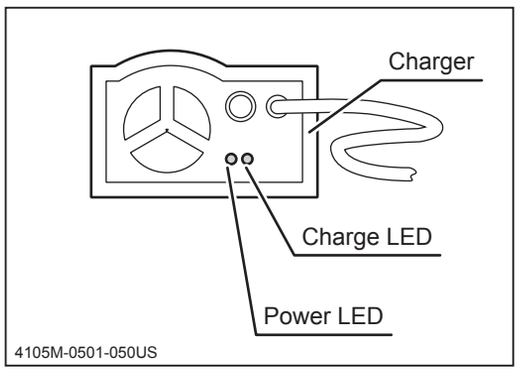


Charging (battery installed)

1. Pull and turn shield to open charger connector.



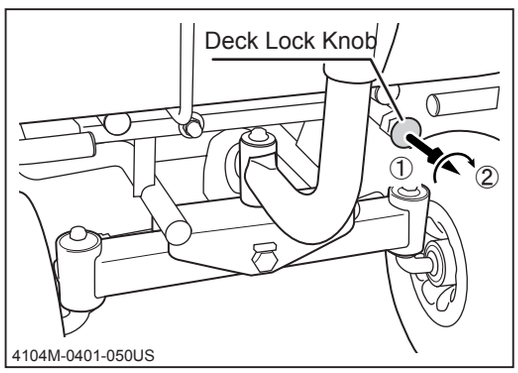
2. Connect power cable to charger. Check that main switch is [OFF], then connect output cable to charger.
3. Connect power cable to the outlet.



4. When charger is connected securely, turn main switch [ON]. Power LED lights in red. Charge LED lights in yellow, indicating battery is charging.
5. When the charging completes, charge LED turns green.
6. Turn main switch [OFF] and disconnect output cable, then close shield of charger connector.

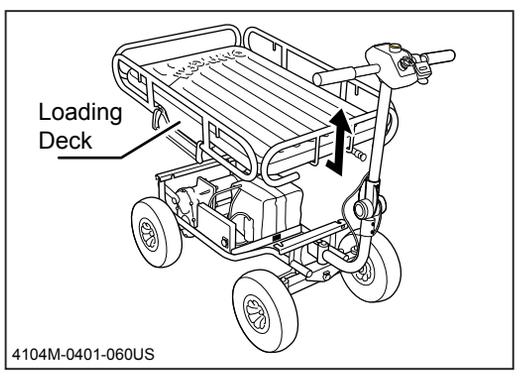
NOTE

- **You must charge battery completely for the first use after purchase.**
- **See Charger LED Messages (page 26) for charging battery.**

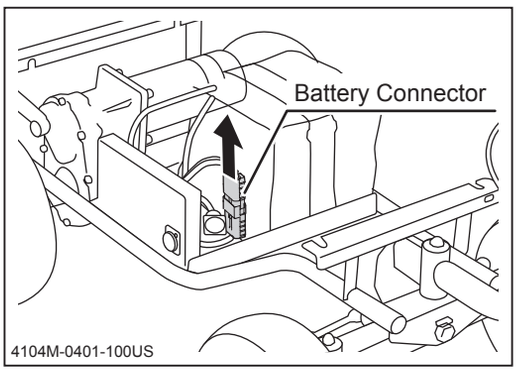


Charging (battery uninstalled)

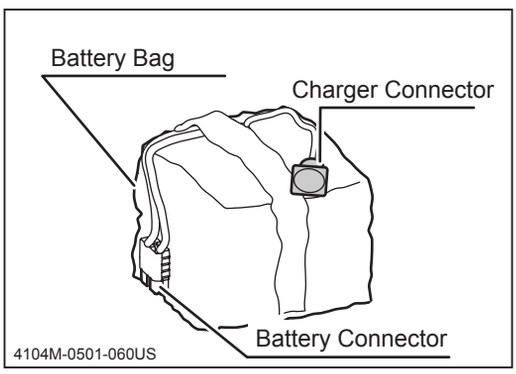
1. Pull Deck Lock knob and rotate 90 degrees to fix knob.



2. Remove loading deck.

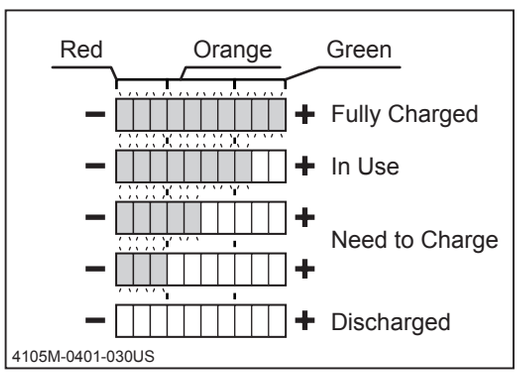


3. Remove battery connector.
4. Remove battery bag.

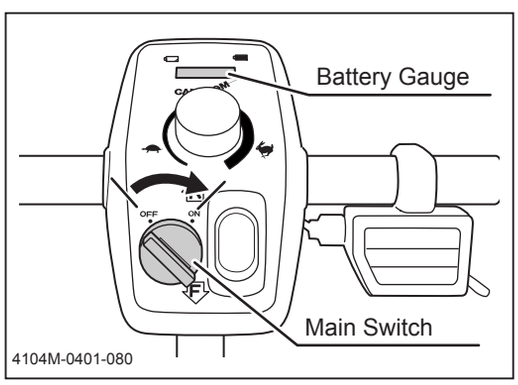


5. Open the cap of charger connector and connect output cable.
6. Connect power cable to the outlet

Checking Battery Charge



Battery gauge indicates the capacity of battery. When all the lamps light, battery is in full charge. Orange lamps indicate battery level is low. Red lamps indicate the battery level is nearly empty.



1. Insert key and turn main switch [ON].
2. Check indication of battery gauge.
3. When battery gauge indicates red lamp or blinking, charge battery immidiately.

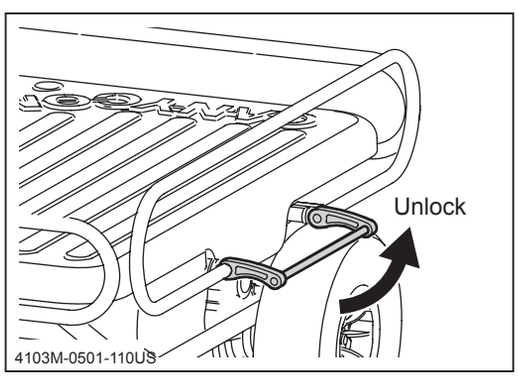
NOTE

- **Complete discharge damages battery. Charge battery frequently. If only the red lamps light, charge immidiately**
- **It takes approximetely 8 hours to fully char**ge battery.

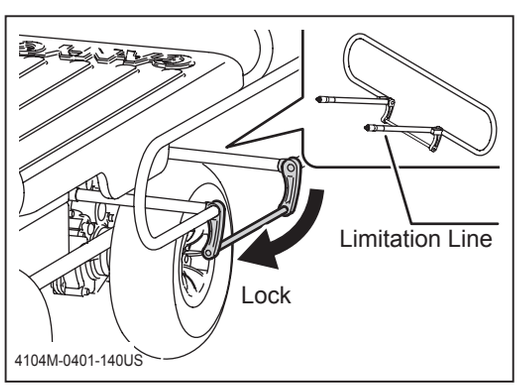
Adjusting Deck Frame

⚠CAUTION!

- **Always lock slide frame when in use.**
- **Do not extend slide frame beyond black line on slide frame rod. Slide frame may be damaged.**
- **Avoid any load on slide frame. It may cause the drop or deformation.**



1. Pull and raise frame lock lever to unlock.



2. Adjust slide frame within the range of the limitation line.
3. Pull down lever to lock frame.

Driving

Starting

⚠WARNING!

- **This machine can not use on the public road.**
- **Do not allow people in its proximity when operating this machine.**
- **Pay maximum attention when driving slope or inclined landscape.**
- **Do not carry more than 220lbs (100kg) when operating on a slope between 5 and 10 degrees. Operate this machine without any loading on the loading deck when operating on a slope between 10 to 15 degrees. Do not use this machine on a slope more than 15 degrees.**
- **Always make certain of the safety of your surroundings when starting and turning.**
- **Do not make sudden maneuvers. Sudden start, stop, or turn can make machine lose control and could cause a tip over.**
- **Do not turn main switch [OFF] while machine is moving.**
- **Park machine on a flat, level and stable surface. Do not park in a dangerous place.**

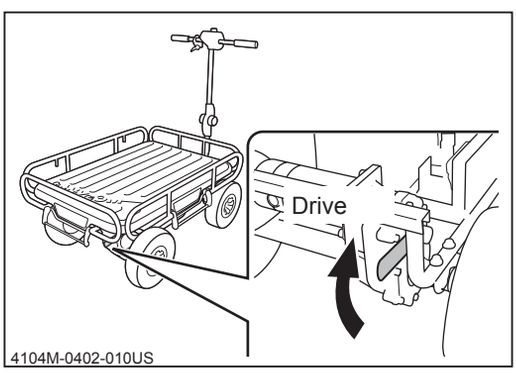
⚠CAUTION!

- **Do not turn starter for more than 15 seconds. If engine does not start, wait for 30 seconds or more before attempting to start again.**

- **Do not use this machine in temperatures above 40ºC (104ºF) or below -15ºC (5º F). This machine cannot perform adequately in these temperature ranges. Using this machine under such conditions may result in an accident or cause damage to machine.**

- **Do not use this machine in dusty places such as desert. Dust may clog motor or other parts, which may reslt in loss of performance and an accident. It also causes excessive wear.**

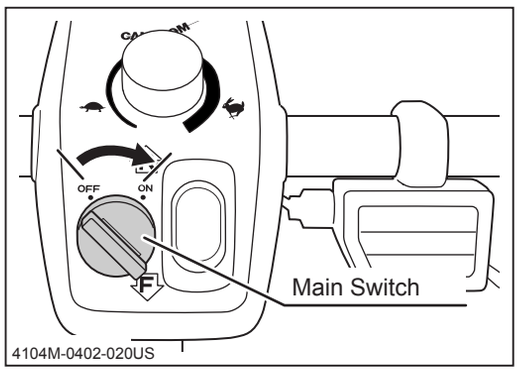
- **Do not use this machine in the altitude above 1500m (4921ft) in its original configuration. This machine cannot perform adequately above that altitude. Using this machine under such conditions may result in an accident or cause damage to machine. If you need to use this machine above that altitude, contact your CANYCOM representative.**



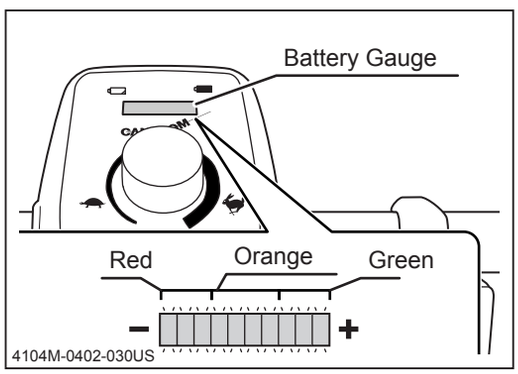
1. Make sure brake lever is in [Drive] position.

NOTE

- **Machine only moves when brake lever is set to [Drive] position.**



2. Insert key then turn main switch [ON].



3. Battery gauge lights up

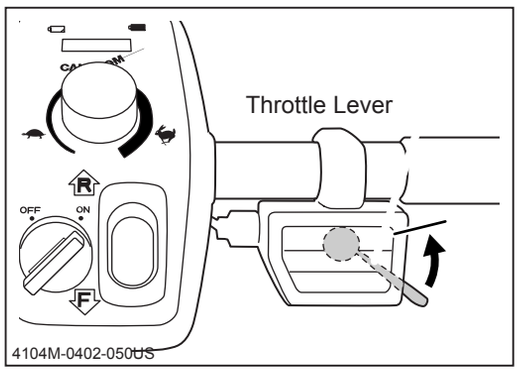
NOTE

- **Do not operate accelerator lever soon after turning main switch. Controller performs self-check after being turned on. It takes a few seconds, and if accelerator lever is operated during this period, controller reports an error. When an error occured, turn main switch off then turn it on again.**
- **Charge battery when battery gauge flashing. (see [Error Inspection Function on Battery Gauge] on page25 for more information)**

4. Set to speed adjusting lever to the maximum.
5. When you want to move forward, make sure direction switch is in [F (forward)] position.

NOTE

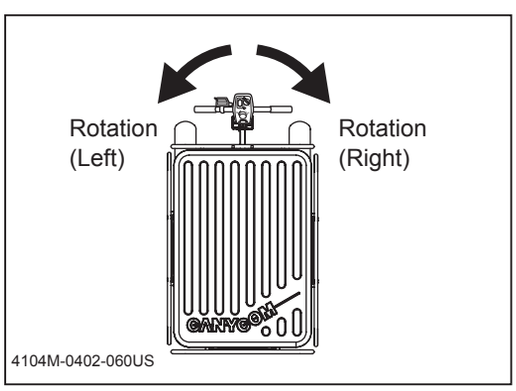
- **Drive in [LO] speed mode until accustomed to driving.**



6. Shift accelerator lever to the front to move forward. You can adjust speed with accelerator lever.
7. When you want to move backward, make sure direction switch is in [R (rear)] position.
8. Shift accelerator lever to the front to move backward. You can adjust speed with accelerator lever.

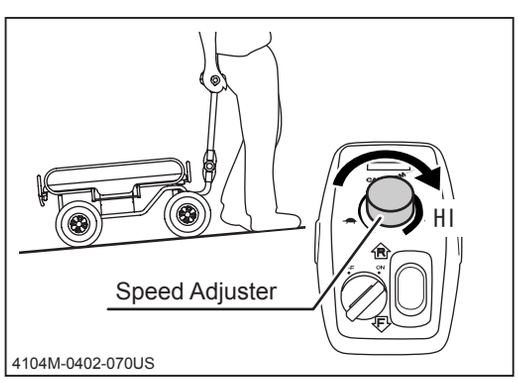
NOTE

- **In case of an emergency, release accelerator lever. Machine stops.**
- **Protection function reduce the traction force for over loading or driving on slope. In this case, reduce the amount of loading or stop using on a slope.**



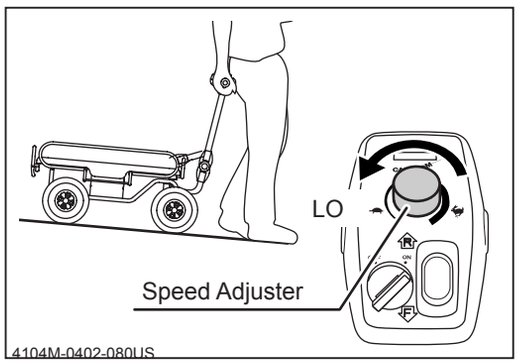
9. Shift handle toward left and right to operate.
10. After use, turn main switch [OFF] then remove key.

Using on a slopes



Using on a upslope

1. If machine does not move or moves slowly, set speed adjuster to [(HI)].



Using on a downslope

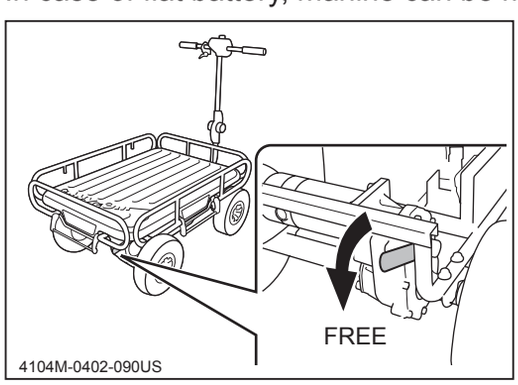
1. When you go down the slop, set the speed adjuster to [(LO)].

Dealing with Flat Battery

⚠WARNING!

- **Do not set brake lever to [FREE] exept in an emergency situation. Machine can move unexpectedly out of control.**

In case of flat battery, mahine can be moved manually by selecting brake to [FREE].



1. Remove load.
2. Set brake lever to [FREE]
3. Push machine slowly.

NOTE

- **Brake does not work when it is in [FREE] position.**

Maintenance Schedule

⚠WARNING!

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

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

Item			Description	Shedule		Note
				PSI	Mon.	
Electrical	Battery	Battery Condition	Enough remaining power	○	○	
			No leak or damage	○	○	
		Charge Status	Can Charge Properry		○	
			Battery or charger do not overheat when charging. Fuse is not blown	○	○	
	Battery Gauge	Error Messages	Does not show an error message	○	○	
	Charge LED	Error Messages	Does not show an error message	○	○	
Controls	Brake	Brake Position	Brake position is set to [Drive]	○	○	
	Accelerator Lever	Accelerator lever	Accelerator lever returns to the stop position when released	○	○	
		Accelerator Function	Machine moves forward and backward properly.	○	○	
	Steering	Steering	Does not have too much play and can operate smoothly.	○	○	
Body, Chassis	Tires	Condition of tires	Tires are not cracked or worn	○	○	
		Tread	Tread has enough depth	○	○	
	Loading Deck	Lift switch function	Loading deck moves up and down smoothly	○	○	
		Lift function	Loading deck moves up and down smoothly	○	○	
		Removal of deck	Loading deck can be removed normally		○	
Others	Frame	Frame	Frame is not bent or distorted		○	

List of Consumables and Spares

⚠CAUTION!

- **When replacing a consumable or spare, always use the CANYCOM genuine part.**

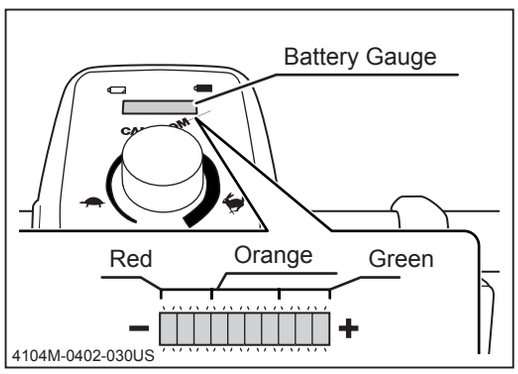
Item	Parts No	Interval of replacement	Quantity	Reference
Electrical				
Battery	41030013000	Replace if defective.	1	
Fuse (Charger)	41030031000	Replace if defective.	1	
Drive Train				
Tire Assy (Front)	41042121000	Replace if defective.	2	
Tire Assy (Rear)	41042101000	Replace if defective.	2	
Loading Deck				
Rubber Bush	4103401800		6	

NOTE

- **Rubber products such as tires deteriorate over time. Replace them every two years or when damaged.**
- **Battery cannot be recharged once it is fully discharged. Recharge battery frequently. If not in use for a long time, see Storage on page 32**

Messaging Function

Error Messages on Battery Gauge

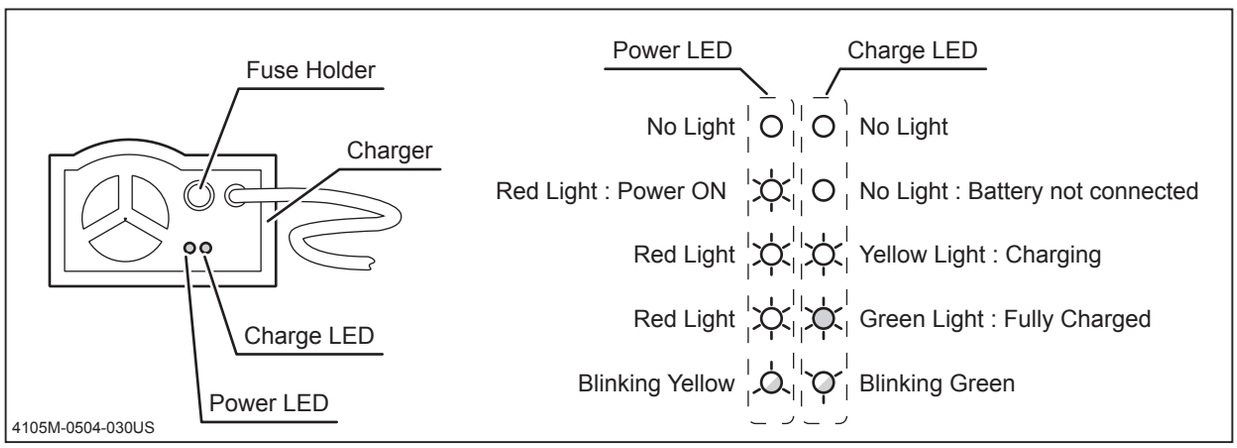


Controller inspects the electric circuit of machine and indicates a message if there is an error. Under normal condition, lamps stay on steadily. If there is an error with the control circuit, lamps flash.

Pattern of Lamps	No. of Flashing lamps	Description	Corrective Measure
− +	Lamps stay on all the time	Normal	-
− +	1 lamp x flashes once	Faulty battery connection or discharged battery	→Check battery connection. If flash continues, charge battery.
− +	2 lamps x flash twice	Faulty motor connection	→Check connection of motor. If flashing continues, please contact your CANYCOM representative.
− +	3 lamps x flash 3 times	Short-circuit between battery and motor	→Please contact your CANYCOM representative.
− +	6 lamps x flash 6 times	Charger output cable is connected	→Disconnect Charger output cable.
− +	7 lamps x flash 7 times	Controller in the protection mode	→Make sure accelerator lever is in the stop position and restart machine. If flashing continues, please contact your CANYCOM representative.
− +	8 lamps x flash 8 times	Control circuit trips	→Please contact your CANYCOM representative.
− + 4105M-0504-020US	10 lamps x flash 10 times	Over voltage	→Please contact your CANYCOM representative.

When an error occurs, lamps on battery gauge flash for a set number of times depending on the cause. See the chart above to determaine the message.

Charger LED Messaging Function



Charger has two LEDs. The Power LED lights up when the power is on and Charge LED indicates charging and circuit status.

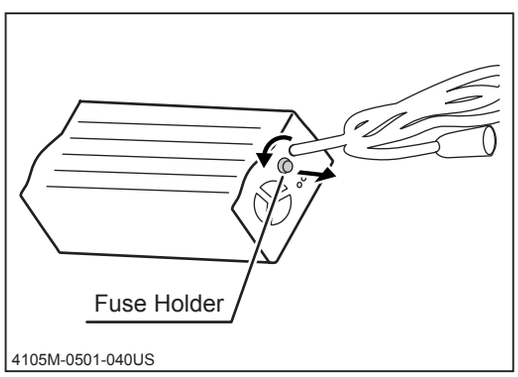
Power LED	Charge LED	Status	Corrective Measure
No light	No light	Power is off	-
Red light	No light	Power is [ON]. Battery is not connected	→Turn the switch of charger [OFF] then connect battery again and turn switch [ON] again. Also check the fuse in fuse holder.
Red light	Yellow light	Charging	-
Red light	Green light	Charge complete	→Turn charger [OFF] then disconnect battery connector.
Yellow flash (short period)	Green flash (short period)	Charging	→Flashing for a short period of time is normal. If yellow and green flashing continues for a long time, (more than 40 minutes.) battery may damaged. Please contact your CANYCOM representative.
None of the combination above		Circuit, connection or battery failure	→Turn chager [OFF] immidiately and check connection between charger and battery. If connection appears normal, please contact your CANYCOM representative.

Protection Function

Charger Fuse

⚠CAUTION!

- **Before replacing the fuse, get rid of the excessive electric current. Changing the fuse without solution cause fuse cut off again.**
- **Always replace a fuse with the one of the correct rating. Using a wrong fuse may result in damage to electrical components or cause fire.**



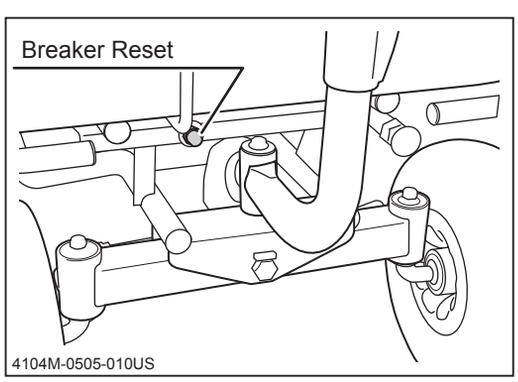
1. Turn charge switch [OFF] and disconnect power cable from power outlet.
2. Remove fuse folder and replace the fuse.
3. Install fuse holder.

NOTE

- **Fuse to Use: See "Page 24"**

Ciruit Breaker

This product is fitted with a circuit breaker, which cuts off the electric current to prevent the damages to machine in case of overcurrent. If circuit breaker trips, press breaker reset button to reset.



Resetting

1. Turn main switch [OFF].
2. Solve the cause of overcurrent.
3. Press circuit breaker reset button.

NOTE

- **Cut or pinched wire may cause circuit breaker to trip. If circuit breaker keeps tripping after resetting, please contact your CANYCOM representative.**

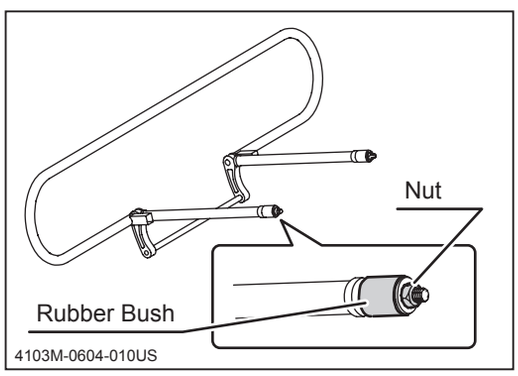
Ajusting Machine Body

Rubber Bush - Adjusting and Replacing

⚠CAUTION!

- **Do not apply any oil kind saff. It may prevent slide frame to be fixed.**

If slide frame can not fix or roughly slides, please check the rubber bush fitted on slide frame. Adjust



1. Raise frame lock lever to unlock slide frame.
2. Adjust the tightness of nut. If slide frame is loose, tight the nut and do opposite if frame is too tight.
3. Replace rubber bush, if bush is deteriorated.
4. Install slide frame to the deck frame then pull down frame lock lever.

NOTE

- **Part Replacement: See "Page 24"**

After Use Care

⚠CAUTION!

- **Do not wash motor or control panel with running water; water may enter inside and cause rust or damage.**
- **Clean machine before storage; leaving dirt or foreign objects may cause rust or damage.**
- **Do not attempt to move machine when it becomes inoperable due to freezing.**

After Normal Use

1. Clean machine; wash off dirt, mud, and other foreign matter after use.
2. If machine is to be left outside, cover machine with a protective, water-proof covering after machine cools off.

After Cold Weather Use

1. Clean machine; wash off dirt, mud, and other foreign matter after use.
2. Park machine on a paved or firm, dry surface.
3. If machine is to be left outside, cover machine with a protective, water-proof covering after it cools off.

Storage

⚠WARNING!

- **Fire hazard; do not store machine where there is a possiblity of ignition.**

⚠CAUTION!

- **Do not wash motor or control panel with running water; water may enter inside and cause rust or damage.**
- **Clean machine before storage; leaving dirt or foreign objects may cause rust or damage.**
- **Do not store machine in a humid, dusty, or hot place.**

1. Follow the instructions in **"Parking"** (page 7) to park the machine.
2. Clean dirt off of machine.
3. Clean the exterior of machine with oiled rag.
4. Cover machine with protective, water-proof covering after machine is cooled off.

NOTE

- **Battery dischages even when it is not in use. A battery may hold charge for a few months, but it is a good practice to charge battery before it goes flat; it will extend the battery life.**

Troubleshooting

- **If any malfunction or abnormal condition is found, immediately stop using 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.
Oparational	No power supply even the main switch is [ON]. (battery gauge is not indicating)	Faulty connection of connectors	→Check the connection of connectors	
		Faulty connection of battery connector.	→Check the connection of battery connector	
		Battery not charged sufficiently	→Charge battery	Page 14
		Breaker is tripped	→Reset breaker	Page 27
		Faulty Switch, Control Circuit or Wiring	→Please contact your CANYCOM representative.	
	Circuit breaker trips often	Wiring is cut off or short-circuited	→Turn main switch off immidiately then please contact your CANYCOM representative.	
		Faulty breaker	→Please contact your CANYCOM representative.	
		Others (other than the above)	→Please contact your CANYCOM representative.	
	Battery gauge flashes	Faulty control circuit or wiring	→see **Error Messages on Battery Gauge**	Page 25

6 Troubleshooting

Area	Malfunction	Possible Cause	Corrective Measure	Ref.
Operational	Machine does not move when accelerator lever is operated.	Battery not charged sufficiently	→Charge batetry	Page 14
		Grass or other objects are accumulated or tangled around axle.	→Clean axle	
		Faulty accelerator lever	→Please contact your CANYCOM representative.	
		Faulty Switch, Control Circuit, Motor or Wiring	→Please contact your CANYCOM representative.	
Drive Train	Speed is Slow	Accelerator lever is not firmly operated	→Operate the accelerator lever properly	
		Insufficiently charged	→Charge batetry	Page 14
		Going up a slope with excessive load	→see **Safety Precautions - operating**	Page 4
		Excessive load	→Reduce load	Page 8
		Grass or other objects are accumulated or tangled around axle.	→Clean axle	
		Faulty Switch, Control Circuit, Motor or Wiring	→Please contact your CANYCOM representative.	
	Speed is too fast	Accelerator lever is not firmly operated	→Operate the accelerator lever properly	
		Faulty control circuit	→Please contact your CANYCOM representative.	
	Speed cannot be controled	Faulty control circuit	→Please contact your CANYCOM representative.	
	The machine does not stop completely even releasing the hand from the accelerator lever	A foreign object is caught on the accelerator lever	→Remove foreign object	
		Faulty Brake or control circuit	→Please contact your CANYCOM representative.	

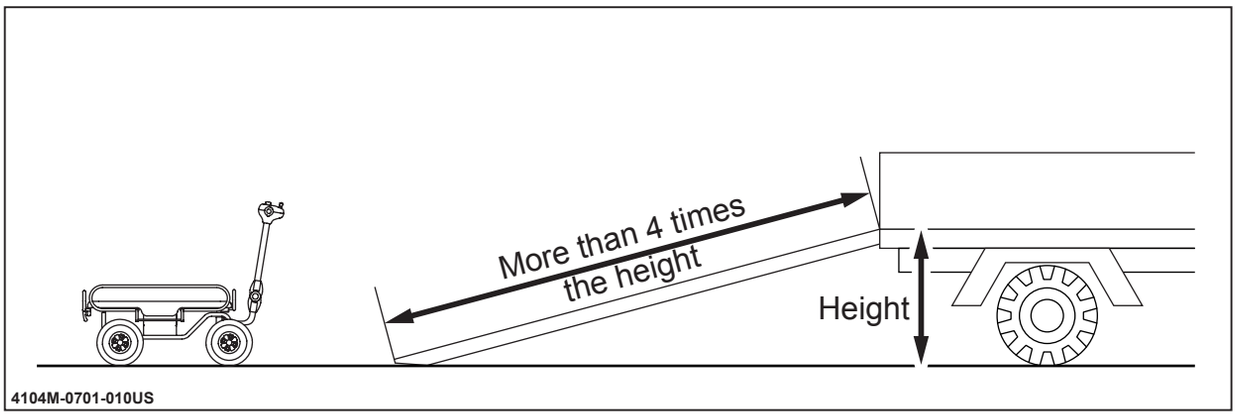
Area	Malfunction	Possible Cause	Corrective Measure	Ref
Drive train	Tires do not move when steering wheel is turned	Faulty steering linkage	→Please contact your CANYCOM representative.	
Charging	Battery consumes quickly	Go up the slope with overloading	→see **Safty precautions - Driving on a Slope**	Page 5
		Excessive load	→Reduce load	Page 6
		Grass or other objects are accumulated or tangled around axle.	→Clean axle	
		Faulty Motor, Control Circuit or Wiring	→Please contact your CANYCOM representative.	
		Deteriorated battery	→Replace battery	
	Can not be charged	Faulty connection of battery connector.	→Check connection	
		Deteriorated battery	→Replace battery	
	LED of charger flashes	Faulty charger	→see **Charger LED Messages**	Page 26
	Fuse blown	Wiring is cut off or short-circuited	→Please contact your CANYCOM representative.	
	Battery or charger overheats	Faulty charger or battery	→Please contact your CANYCOM representative	
Loading Deck	Can not fix slide frame (loose)	Rubber bush is loose	→Tight the nut for the rubber bush	
		Deterioated rubber bush	→Replace rubber bush	
	Slide frame can not be moved (tight)	Rubber bush tighten too much	→Adjust the nut properly	Page 28
		Deterioated rubber bush	→Replace rubber bush	Page 28
		Slide frame is rusty	→Please contact your CANYCOM representative	

Hauling

Loading and Unloading

⚠WARNING!

- **Park transporter (truck) on a level ground. Always use chocks to secure wheels.**
- **Do not allow bystandars to come close to machine or transporter when loading or unloading machine.**
- **Use only the loading ramps with sufficient strength (to withstand the combined weight of machine and operator), width (more than 12 inches), and length (more than 4 times the height of loading deck of transporter), and have anti-slip ramp surfaces.**
- **Secure hooks of loading ramps firmly and flush with loading deck of transporter.**
- **When loading to or unloading from transporter, walk behind machine to operate; do not ride on the step.**
- **Move slowly forward when loading onto, and move slowly backward when unloading off of transporter. Pay special care when going over the joint between loading deck and ramps; machine may tip.**
- **Do not turn on loading ramps. Machine may fall.**
- **Tie down machine securely. Make sure machine does not move around on loading deck.**



1. Park transporter on level ground. Secure wheels with chocks.
2. Place loading ramps. Secure hooks of ramps firmly and flush with loading deck of transporter.
3. Drive machine slowly forward onto loading deck.
4. Park machine according to the instructions in **[Precaution - Parking]** (page 8). Secure machine firmly to loading deck of transporter with tie-down belts, rope, or wire.