

BROON T870

The Instructions Manual



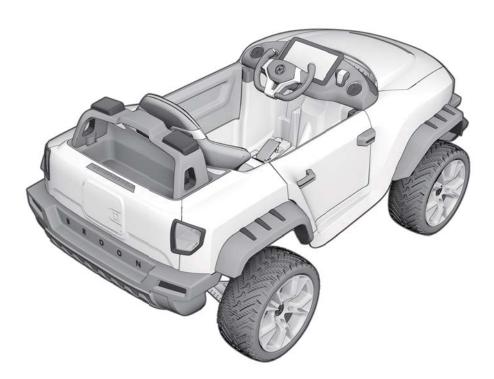
Please make sure to read the instruction manual thoroughly before use.

Some changes can be made for improvement without notice.

Specifics could vary by different versions of the product.



Please read carefully the pre-inspection requirements before use.



- The content of this instruction manual could change for improvements without notice.
- For any difficulties or discomfort in using the product,
 please contact us via calling your near service center or the store of purchase.
 You can also contact us via our website at www.broon.co.kr.

Dear valued customers

We are pleased to welcome you as new family members of HENES CO., LTD.

As a miniature electric motor vehicle designed for kids, our product is equipped with various extra functions by the very best research and production team of HENES CO., LTD., providing safer and more comfortable electric vehicle for kids and the whole family with greater fun.

We do our best to give your beloved sons and daughters the first-in-lifetime experience of driving the vehicle which will be shared and talked forever.

Again thank you for choosing BROON T8 Series, an unforgettable experience.

BROON T8



Contents

1. Precautions	
	(p.01)
2. Components	
Component images	(p.02)
3. Product Exploded View	
External exploded view and part names	(p.03~04)
4. Product Assembly Instruction	
	(p.05)
Seat assembly and roll cage separation	(p.06)
▷ Instrument panel assembly and removal	(p.07)
□ Bonnet Open / Close and Sticker Placement.	(p.08)
5. Battery	
Charging and replacing the battery	(p.09)
Charging Precautions	(p.10)
	(p.11)
6. Driver's Seat	
Part names and functions	(p.12)
7. Tablet PC Manual	
Names and functions of the main screen	(p.13)
	(p.14)
Speed limit change / Driving mode change / Control mode change / Braking mode change	(p. 15)
□ Light control / Lock settings / MP3 playback / Language settings	(p. 16)
Setting- vehicle information display	(p. 17)
(Fine-tuning steering / System Temperature / Voltage, Battery remains / Total Driving , Remaining	
Setting-in general / Additional Functionality.	
⇒ Auto-Diagnostics	

Contents

> Precise-Diagnostics	(p.20)
	(p. 21 ~ 22)
8. Audio System / Update	
> Audio features and updates related	(p.23)
9. Vehicle Operation Method	
▷ Turning ON battery / Dashboard Power Switch / Lock setting and operation	(p.24)
10. Remote Control	
> Product Components / Description / Speccification	(p.25)
	(p.26)
	(p.27)
	(p. 28 ~ 29)
▷ Precautions	(p.30)
11. Useful Tips	
	nileage (p.31)
> When the battery makes noise / Battery heats when charging	(p.32)
12. Product Specifications	
> Specification	(p.33 ~ 34)

1. Precautions

Before reading this manual

- Please review the user manual thoroughly before the use of product.
- After reviewing, please put the manual at reachable place for further need.
- Some described items, components or functions can differ or may not be provided per options.
- The images in the user manual are for instructive purposes thus can be differ from the actual products
- Functions and performances of product and user manual can be modified for quality issues without notice.



Cautions

To prevent any accident

- Please do not have your children near the vehicle when charging to minimize the risk of electric shock.
- ·Parental supervision is required at all times.
- Do not operate the vehicle in dangerous places such as driveways, around other vehicles, hills, stairs, swimming pool or near water.
- •Please have your child to wear shoes when riding the vehicle.
- •Please keep your child seated in the seat at all times.
- •Please pay extra attention when operating in remote control mode

to prevent any accidents caused by signal interference.

- The vehicle is suitable for children in age 3~8 years old. The weight of the passenger must not exceed 30 kg.
- Please keep the plastic cover out of reach of children or dispose it to avoid the risk of suffocation.
- The remote control must be handled by user's in age 15 or older. Please keep the remote out of reach of children.
- Please watch out for children touching the folding and hinge part, because it could be hazardous.
- •Please access the hood only for maintenance purposes.
- Please do not lose the key to the hood and keep it out of reach of children.

Rules for safe driving

- ** Please be aware of the following rules and make sure the driver and other children around understand completely.
- ▶ Children shall operate only under adult supervision.
- ▶ Children must wear safety equipment such as a helmet when driving.
- ▶ Operate only in safe area.
- ▶ Never operate near driveways, cars, grass, slopes, stairs, swimming pool or water.
- ▶ Operate only in daytime with clear visibility.
- ▶ Do not operate on wet road or slopes higher than 10 degrees.
- ▶ Do not operate outside when snowing or raining.
- ▶ Forward/reverse mode change must be done after complete stop.
- ▶ Age target and weight capacity must be followed.
- ▶ Do not modify any electric circuits nor install other electric devices.
- ▶ Check connections for the circuits and connectors occasionally.
- ▶ Check product safety before boarding to prevent any accident.
- ▶ Never let children touch the wheels or running vehicle.
- ▶ Please be familiar with how to manage the adjustable seat belt of the product.
- ▶ Please have the seatbelt on at all times.

2. Components



T8 body



Tire set X 4 / Disc X 4 (Disc is separated)



Seat(with seatbelt included)



Instrument panel (Tablet PC, Handle)



Roll cage



Hexagon wrench Wheel bolt X 20



Charger

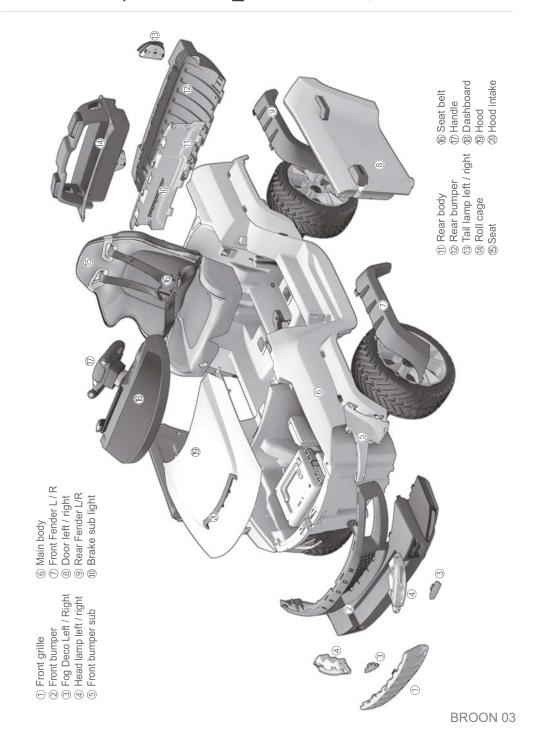


Remote controller

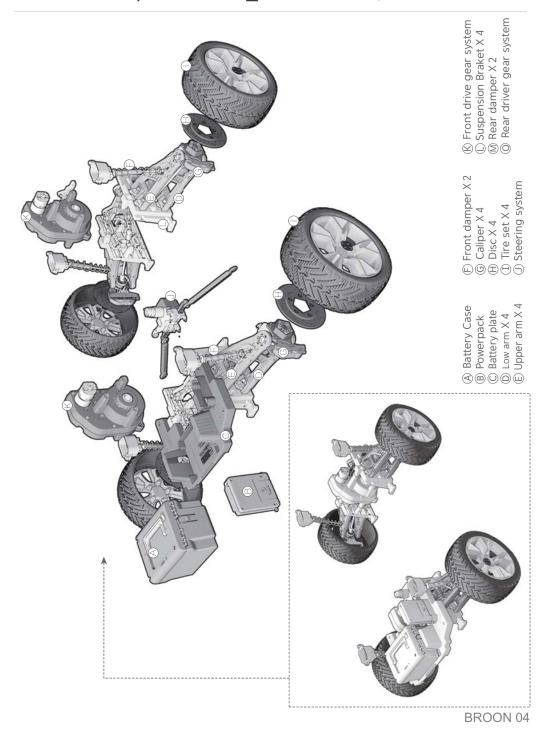


Instruction manual

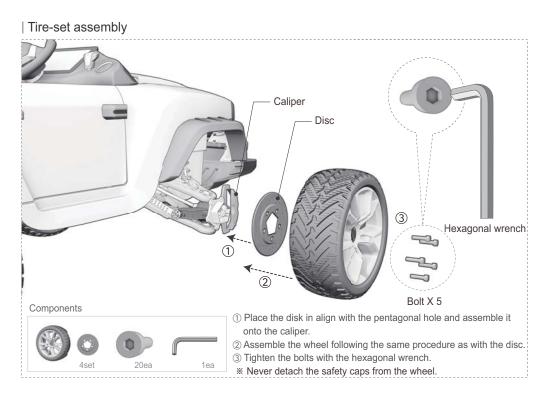
3. Product Exploded View_External view and part names

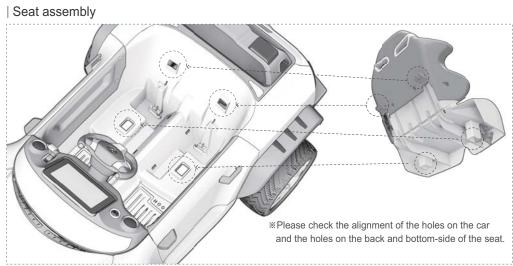


3. Product Exploded View_Internal view and part name



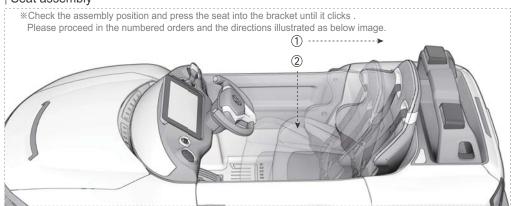
4. Product Assembly Instruction



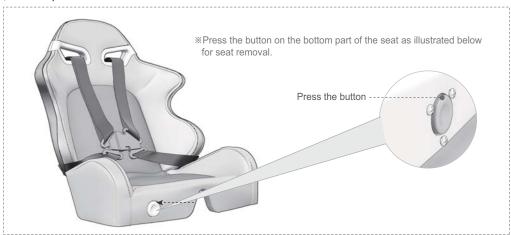


4. Product Assembly Instruction

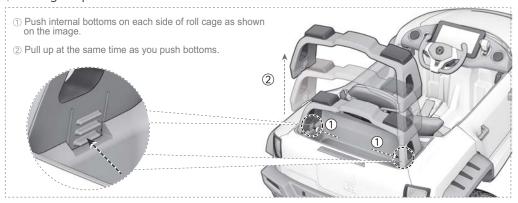
| Seat assembly



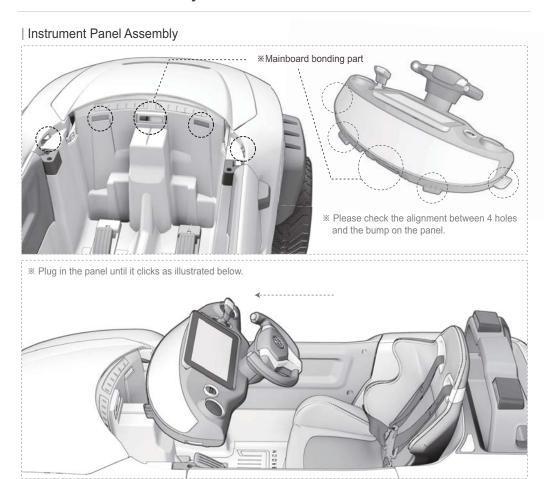
| Seat separation



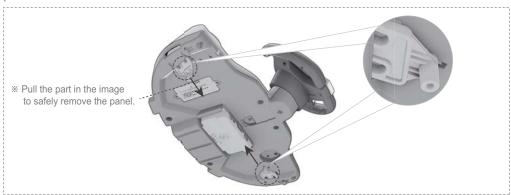
Roll cage separation



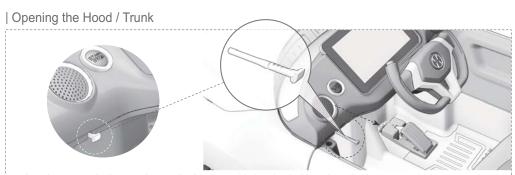
4. Product assembly instruction



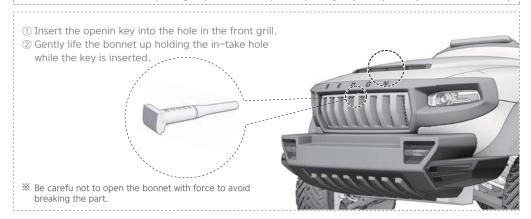
| Instrument Panel Removal



4. Product assembly instruction



* Please do not lose the opening key. Please keep the opening key away from your child for safety.



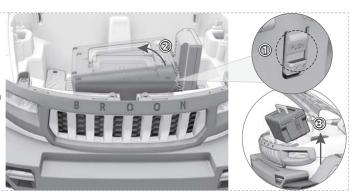
| Sticker Placement

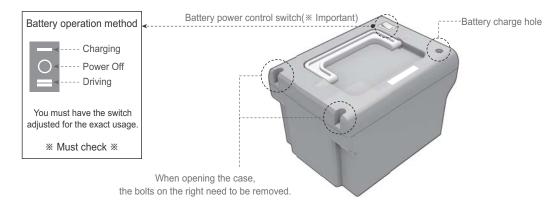


5. Battery _ Charging and Replacing the Battery

| Charge and Replacement

- ① Open up the bonnet and push the PUSH button on the right side of the battery case.
- ② Gently tilt the battery pack to lift it while the pushing the push button.
- ** Please be careful not to break the bottom parts when pulling it off with force.

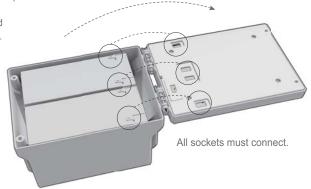




Battery replacing method

Unscrew the bolts on the battery case and open the case cover.

Have the batteries replaced as below and close the cover with the bolts re-screwed.



* The quantity of the battery packs may vary by different versions.

5. Battery Charging Precautions

Recharging the battery should only be handled by adults.



WARNING

To prevent fire and electrical shock

- ▶ Please do not have your children near the vehicle while charging to minimize the risk of electric shock.
- ▶ Always use only the recharger provided with the product and rechargeable battery.
- ▶ NEVER use non-rechargeable battery of recharger provided by different product.
- ▶ Use of wrong battery or recharger may cause fire or explosion.
- ▶ Do NOT use the battery and recharger onto the other products. Overheat, fire, explosion may occur.
- ▶ NEVER modify the electronic circuits, arbitrary modification of the electronic circuits may cause shocks, fire, explosion and product damage.
- ▶ NEVER connect two sockets from the battery. It may cause fire or explosion.
- ▶ Because during recharging some flammable gas can emerge, do NOT recharge near heat source or fire. Recharge only in area with enough ventilation.
- ▶ Do NOT lift the battery with circuits or the recharger. The battery can be damaged or cause fire. Hold the battery case when lifting the battery.

Recharge method

- ▶ Battery recharging socket is located at the bottom of the LCD on driver's left
- ▶ The power switch must be OFF during recharging.
- ▶ When recharging please leave the battery charged for about 6~7 hours.

 Do NOT recharge the battery more than 10 hours to prevent overheating.
- ▶ Please recharge the battery if running vehicle slows down.

Battery recharging and running duration (Measures using brand new batteries)

Battery 7.2Ah X 2 (Dual)		
Charging Time	6~7 hours	
Running Time	1~2 hours	

- ▶ Battery is an expandable supply whose life shortens over time. Please purchase a new battery when the life becomes less than half.
- ▶Do NOT operate the car while recharging.
- ▶ Recharging time was measured by our genuine recharger from HENES co., ltd.
- ▶ Battery's recharging time and duration can differ by recharging condition and environment, so please use the time table only for reference.
- * Only the original charger and battery are recommended for use.

5. Battery _ Handling Precautions

- 1) Please separate the battery when storing.
- ② Charge at least once a month for longer battery life expectancy.
- ③ Battery is an expandable supply and will not be covered by the warranty.
 Please replace the battery with a new one when it is completely discharged.

⚠ WARNING

If not connected properly it may become fire hazardous so please refer to the user manual for proper connections.

- ▶ Do not open the battery.
 Battery contains toxic and corrosive materials such as plumbic acid.
- ▶ Do not open the charger. Electronic shocks can occur from exposed lines and circuits.
- ▶ Battery must be handled and recharged by adult. Do not let the child touch nor have it recharging. Not only it is heavy but it contains plumbic acid(electrolyte)
- ▶ Do not drop the battery as it may cause permanent damage and further serious damages.
- ▶ Before recharging the battery please check for any damages over the battery, charger, lines and connectors. Do not recharge the battery if any of the parts is damaged.
- ▶ Do not fully discharge the battery. Recharge the battery after use. And even if not in use please recharge it at least once a month.
- ▶ Do not leave the battery upside down.
- ▶ Fasten the battery safely using the battery cover.
- ▶ The battery must be recharged by adults.
- ▶ Please refer to the battery power level indicator to prevent over charge accidents.
- ▶ Never use cross use the battery with old and new battery or different types of batteries.
- ▶ Please beware of the battery circuit output. It may cause severe damage to the product, if the battery circuit output(+/-) is not connected properly.

6.Driver's Seat

| Part names and functions

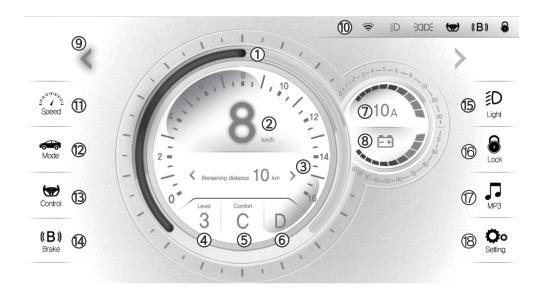


- ① Tablet PC: The vehicle's operation and information display
- ② Handle: Vehicle steering
- ③ Forward-reverse lever : The vehicle runs forward, and backward (D-forward / R-Reverse)
- 4 Start and stop button: Vehicle Power ON / OFF (give about 2 ~ 3 seconds)
- ⑥ Car speaker : Music and audio playback
- Turn signal buttons: Left, right lamp ON / OFF function
- ® Accelerator pedal : Pedal controls the speed of the vehicle
- 10 Opener Key: Opens the hood / trunk

7. Tablet PC manual Names and Functions of the Main screen

Dashboard screen

- ① Speed gauge bar: bar indicates the speed of the vehicle through the display.
- ② Vehicle speed: indicates the current speed of the vehicle.
- ③ Total distance / remaining Mileage: The mileage is indicated by the arrow.
- ④ Speed Level: Displays the current speed level of the vehicle.
- ⑤ Driving mode: Displays the current running mode of the vehicle.
- 6 Shift Status: Current status of the vehicle transmission.
- 7 Voltage Status: The current voltage status of the vehicle in real time.
- (8) Check the battery power level: Displays the current battery power level of the vehicle.
- Direction indicator: Displays the status of the turn signal.
- 1 Status window: Wi-Fi, the light control mode, braking mode, the lock status.



Dashboard menu

 $\ensuremath{\textcircled{\scriptsize{1}}}$ Speed : Opens the speed level window.

Mode : Opens the driving mode change window.
 Control : Opens the Control Mode change window.
 Brake : Opens the Brake Mode change window.

(5) Light : Opens the Light control window.

6 Lock : Opens the Tablet PC lock control window.

(7) Mp3 : Opens the Mp3 player window.

(8) Setting: Opens the vehicle information and settings window.

7. Tablet PC manual Lock Function and Operation Method



Screen Lock setting

Screen lock can be turned on/off by pattern.



Lock icon appears on screen

 Unlock is required for selecting modes and other functions.

*Change settings when system is locked.

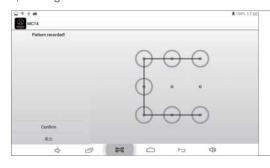
When lock feature is turned OFF, the vehicle is not operable. Please have the lock feature turned ON before running the vehicle.

- 1) Touch the lock icon on the main screen.
- ② Input the unlock pattern when the input window comes up.
- ③ Go to menu on the right side of the screen to change the mode and settings.
- ④ After all settings are done, touch the screen lock icon.
- ⑤ Lock confirmation window pops up -> Click OK

Settings adjustable at all times.

- Light
- Lock
- MP3
- Setting

| Setting Lock Menu



Setting lock menu

Able to register or change the pattern.

- ① Setting > Lock > Generate pattern input window.
- ② Input the desired pattern > Select Continue (or Cancel)
- ③ Continue > Input the pattern once (input the same pattern again)
- ④ After the pattern is input twice, touch confirm button to save the pattern.

* In case for forgotten patterns (The initial settings)

If you don't remember the pattern when the main screen lock setting is turned on,

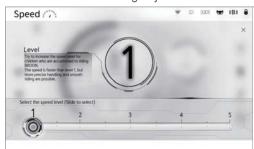
Setting > Select lock icon and register a new pattern.

When new pattern is registered, the lock status gets turned off and the application goes back to factory setting.

* You can alway cancel your initial input and insert a new pattern by clicking the lock icon on the screen.

7. Tablet PC manual Speed / Mode / Control / Brake

W Unlock before making adjustments



Speed limit Adjustments - Speed

You can change the maximum speed limit among 5 different levels.

Level1: The slowest but allows precise driving.

Level2: Speed limit for children who are used to driving.

Level3: Moderate level of speed which allow exceptional

driving and response.

Level4 : Strong driving experience but needs extra care

for safety.

Level5 : Maximum speed which requires both the parent

and driver extra training.

Driving Mode Adjustments - Mode

Adjusts the driving mode of the vehicle.

Comfort Mode: Slower speed but allow smooth and accurate

control.

Normal Mode : Normal driving mode

Dynamic Mode: Maximum performance. Handling this mode

will require extra training.





Control Mode Adjustments - Control

It allows you to choose the operation settings.

Manual mode: Driver has the control.

Remote Control Mode: Remote control has the control.

Smart Device Mode: Smart device has the control.

 $\begin{tabular}{ll} $\#$ Smart Device mode is currently not supported. \end{tabular}$

Braking Mode Adjustments - Brake

You can change the braking mode settings.

Auto Brake: The vehicle stops when the accelerator pedal is released.

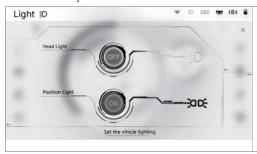
Manual Brake: The vehicle stops when the brake pedal is pressed.

** Using the manual brake mode requires extra training. Please use this mode when your child is properly trained.



7. Tablet PC _ Light / Lock / MP3 / Language settings

* All-time adjustable menu



| Light Control – Light

The lights on the vehicle can be turned ON/OFF.

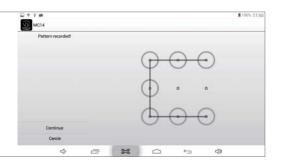
Headlight: Headlight LED ON / OFF Day Light: Daylight LED ON / OFF

| Screen Lock Setting - Lock

The lock prevents malfunctions caused by accidental touching of the screen.

The screen can be locked / unlocked by pattern input.

**Please refer to p. 17 for more details.





MP3 Playback - MP3

Table PC is integrated with MP3 player.

Store and Play your favorite music on the tablet PC. Uploading procedure is found on P. 25.

| Language Setting - Setting

The language displayed on the app can be adjusted.

* The language changes only apply to the app, not the tablet PC.



7. Tablet PC _ Setting_vehicle information display





It displays the vehicles current settings overall in brief.

Fine tuning the steering

It shows the current alignment of your wheels which can be adjusted by +, - buttons.

(+:Rlght, -:Left)

System Temperature

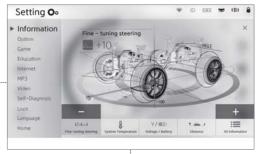
It measures and displays the current temperature (internal). It should be checked when the vehicle is used longer period of time.

Voltage / Battery Remains

It displays current status of the battery. Check the battery level regulalry and charge the battery before use to keep the vehicle operational at all times. If the battery level becomes low, a warning message appears. When it is completely discharged, the vehicle operation automatically stops for safety.

Total Driving Distance / Remaining Distance

It displays the total driven distance, and the remaining distance.

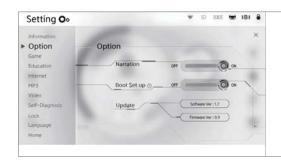








7. Tablet PC Setting-General (voice/start settings/update) add-ons



| Setting - General

- Voice Instructions : Activate / Deactivate
- Start Setting: Tablet PC Booting Activate / Deactivate
- Auto-shutdown Mode: The system shuts down automatically if the system is not used for 10 minutes.

If turned ON: The vehicle is controllable when the PC is still in booting process.

in booting process.

If Turned OFF: The vehicle is not operable until the PC is fully booted.

| Setting - Game, Education

The menu is currently not supported.





| Setting - Internet

It takes you to Android Internet Service (Wi-Fi connection is required)

Please run the internet browser application on your tablet PC. You can choose between the basic browser and Chrome in your first run, and you could download another browser and delete existing browsers.

| Setting - Music, Video

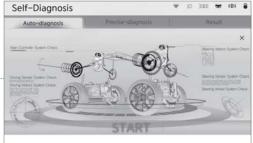
It takes you to the tablet PC MP3 Player.

The Gallery app in the tablet PC home menu will allow video playbacks and you can also download movie apps on Google Play.



7. Tablet PC _ Auto-Diagnosis





© 10 300€ to IBI &

Self-Diagnosis

Auto-diagnosis

| Self-Diagnosis _ Auto-diagnosis

The auto-diagnosis menu checks the current status of the vehicle automatically.

When testing, the vehicle runs automatically. So please keep distance from the vehicle

2 meters radius. Please do not have your child on board while testing. When ready, press the OK button and close the warning message.

The auto-diagnosis checks and tests the current status of the vehicle.

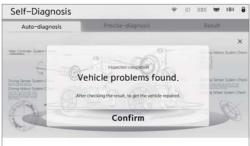
Test includes

- 1) Checks front/rear motors, sensors (Forward, reverse)
- 2) Left, Right motors, Sensors (Left, Right turns)
- 3) LED lights (Head, day, turn, reverse, brake lights)
- **The light signal can be detected with the auto-diagnosis but physical defects of LED light should be checked physically.





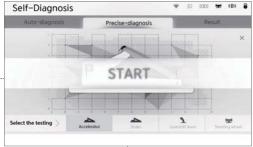




If any problem is detected (It can be found at the results tab)

7. Tablet PC _ Precise-Diagnosis





| Checkup _ Precise-Diagnosis

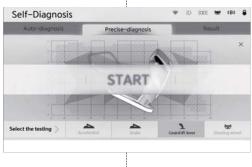
When selected, instruction message and the start menu appears. Precise diagnosis should be processed by the user strictly following the instructions.

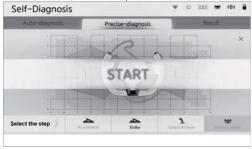
Begin diagnosis: Voice instructions will be given.

Testing aspects : Accelerator

Forward/Reverse Lever

Handle









We Other results window is displayed in the same way
as the automatic diagnosis.

Output

Description:

Output

Description

Description

Output

Description



The final results window can be found at the results tab.

BROON 20

7. Tablet PC _ Warning message descriptions (Over-heat / Over-current / Low battery / Remote control communication error / Emergency stop)



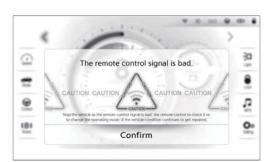
Over-heat Warning

-The warning message appears when the temperature of the vehicle is abnormally high to ensure safety. Please rest the vehicle to cool-down for safety.



Low Battery Caution

- This message appears when the battery level is low. Please have the vehicle recharged.



| Remote Control Communication Error

- It appears when the connectivity between the vehicle and remote control is not normal or too weak. The operation of the vehicle stops for safety. Please check the remote control status and its conrol mode. When the communication is adequately reestablished, the warning message disappears and the vehicle becomes operational.



Over-current Warning

 It appears when over-voltage is detected to ensure safety.
 When the running environment is improved, the window disappears and the vehicle is fully operational.



Low Battery Warning

 It appears when the battery is fully discharged and the vehicle stops for safety.
 Must recharge the battery to run vehicle.



| Emergency Stop

- It appears when the emergency stop button on the remote is pressed. When it is stopped, check the status of the vehicle and press the button again to operate the vehicle again.
- * The message also appears when the proximity between the remote and the vehicle becomes too far.

BROON 21

7. Tablet PC _ Warning message descriptions (Connection Error, Auto-shutdown, Lock Status, Setting Restriction)



Connection Error

- The message appears when the connection between the tablet PC and the vehicle is improperly established. Please reboot the system when it appears.



Lock Status

 It appears when you try to change setting on the tablet when it is locked. Please change settings with the tablet unlocked.



Auto-shutdown

 When the tablet is not used for 10 minutes, the message appears whether to choose to shut down the vehicle and the system. If there is no response, the vehicle shuts down immediately.



| Setting Restrictions

 It appears when you try to access the settings menu while the vehicle is in operation. Please stop the vehilce and try again.

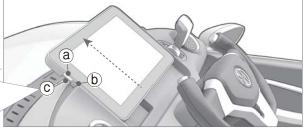
8. Audio System / System Updates

| Updating the Tablet PC System

- Push the tablet PC upward as illustrated in the image.
- @ HDMI Port

(Tablet and external screen connection)

- © SD Memory Card Slot · · · · · You can play movies and music if you plug in a SD card with media stored.



- SD card removal <Setting→Storage→UnmountSD card > / ※ The system can recognize up to 32 GB SD cards.

*For more information regarding system updates, please visit our Broon homepage. (www.broon.co.kr)

| Updating the mainboard

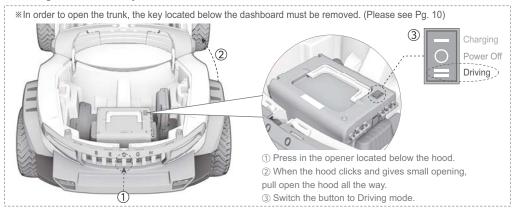
The mainboard can be located as illustrated below.



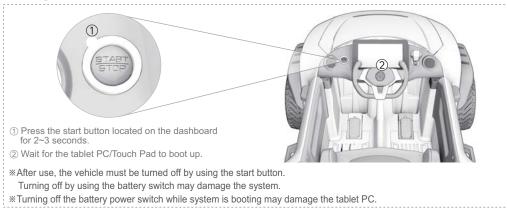
※ For more information regarding system updates, please visit our Broon homepage. (www.broon.co.kr)

9. Vehicle Operation Method

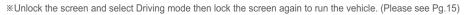
| Turning ON the Battery

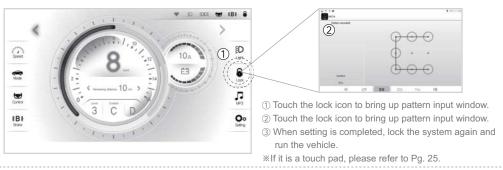


| Turning ON the Dashboard Power Switch

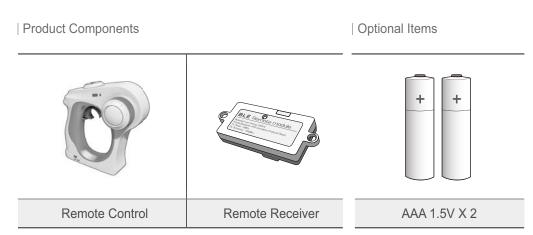


Lock setting and operation





10. Remote control _ Product Components / Description / Specification



Batteries are sold separately.

| Product Description

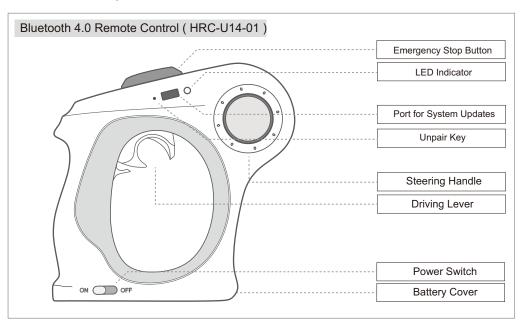
Description	Details
Model Number	HRC-U14-01 (Bluetooth 4.0 Remote Control)
	HRC-V14-01 (Bluetooth 4.0 Receiver)
Featured Buttons	Power Switch
	Steering Handle
	Forward/Reverse Handle
	Emergency stop Button

| Product Specification

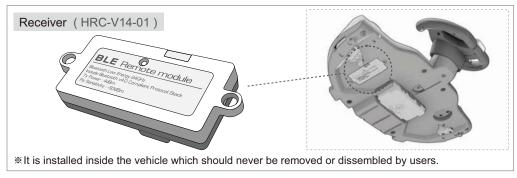
Version	Bluetooth 4.0 Version LE (Low energy consumption)
Frequency	2.4 GHz
Transmit Power	4dBm
Receive Sensitivity	-93dBm
Power	3V DC (AAA 1.5V x 2 battery)
Indicator	It indicates signal strength and battery level.
Transmission / reception distance	40 ± 5M (It varies by circumstances) Keep a safe distance for child safety.
Etc.	Emergency stop function

10. Remote control _ Product Description

| Names and Description

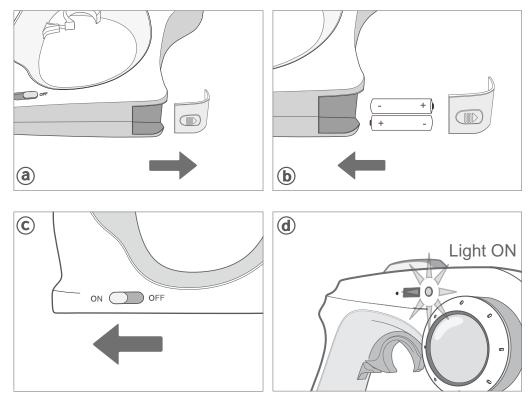


- Power Switch : Turns the power On/Off.
- Emergency Stop Button : Press once to stop the vehicle, press again to drive.
- LED Indicator : It indicates the current status of the remote control. (Please refer to P. 31 for details of the LED indicator)
- Steering Handle : It turns the direction of the vehicle.
- Driving Lever : It accelerates forward/reverse.
- Unpair Key : It is used to pair the receiver equipped in the vehicle and the remote control.
 - * Do not use the button unless otherwise directed by our service center.
- Port for system updates : It is used for updating the software.
 - ※ Please use the original cable to avoid system failures.



10. Remote control _ Battery Insertion Methods

| Battery insertion methods.



*Batteries are sold separately. It requires 2 X AAA 1.5V batteries.

- ① Open the battery cover located at the bottom part of the remote control(③), and insert the batteries in right direction (⑤)
- ② Turn on the power switch located at the bottom. (©)
- ③ If the LED flashes green light, it means the connection is established successfully. (d)
 - * If the vehicle is not powered on, it blinks orange lights. (Connection in progress)
 - ** Toy using replaceable batteries shall mark with:(According to clause6.5)
 - Do not mix old and new batteries
 - Do not mix alkaline, standard (carbon-zinc), or rechargeable (nickel-cadmium) batteries

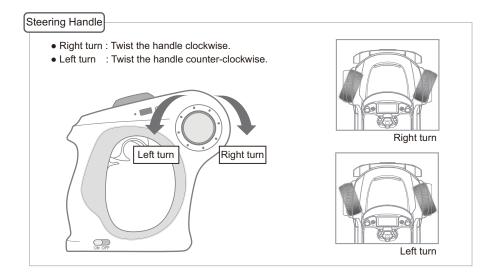


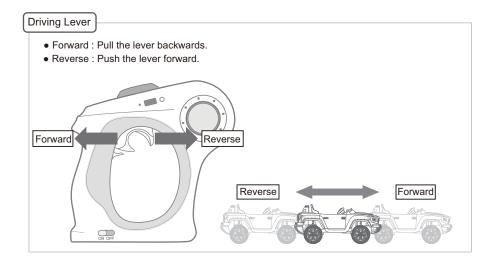
Please note that the remote control signal can be interfered which affects the control stability. So please keep a safe distance from the vehicle to maintain stable connection.

10. Remote control _ Product Function

| Product Function

Please unlock the tablet PC (touch pad) and change the system to remote control mode before using the remote control function.

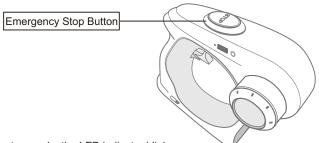




10. Remote control _ Product Function

Emergency Stop Function

- Press the emergency stop button to activate/deactivate emergency stop mode. (Press once for emergency stop, press once more to re-operate.)
- When it is in emergency stop mode, acceleration/steering is disabled.



*When in emergency stop mode, the LED indicator blinks orange.

Vibration

- When the remote connection gets weaker, the vibrator activates.
- When the remote connection is strong enough, the vibrator deactivates



**The connection strength varies by circumstances, so please keep a safe distance to maintain a strong connection to ensure your child's safety.

LED indicator

- Connection Established : Green LED blinks in 1.0 second interval.
- Connection in progress : Orange LED blink in 1.0 second interval.
- Emergency stop mode : Orange LED blink in 0.1 second interval.
- Low battery : Red LED blinks in 1.0 second interval.

10. Remote control Precautions

Precautions

- Malfunctions due to radio interference may occur.
- · If infant is onboard, please keep a safe distance to have full control of the vehicle.
- When storing for longer than 3 months, please separate the batteries.
- · To prevent battery leakage and bad connectivity.
- Please do not drop or dissemble the controller.
- · It can cause function failures.
- Do not use sharp objects to operate the pair key.
- · It can impair its functionality and cause bad connection which can cause malfunctions of the vehicle.

 * ** For Pair key adjustments, please contact our service cente.r
- Please use the original cable when using the Update port.
- •The Update port should only be used for system upgrades. Using for other purposes may damage the port and cause malfunctions.
- Please do not use rechargeable batteries.
- · 2 X AAA 1.5V Batteries must be used.
- · Rechargeable batteries could release higher voltage which can damage the device.
- Please use the steering handle and forward/reverse lever in a gentle manner. Do not over press or pull the trigger.
- · It can damage the spring inside.
- Please keep away from children. It should only be operated by adults.
- · Poor maneuver / hard-handed use / violating the instruction warnings can lead to malfunctions and accidents.
- ♦ In case of emergency, please keep a safe proximity when operating the remote control.
- · The environment and the vehicle status can cause malfunction. Please always use in a safe environment.
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

11. Useful Tips - 1

Q: The vehicle is not moving.

Check point 1.▶ When in operation at stop (automatic shut off safety system)

A: The vehicle can be stopped due to overheat, overcurrent, low battery, and communication error. If it occurs, please check the warning message and improve the running environment.

Check point 2. ► Check for low voltage of battery

A : After use or even not in use the battery needs to be recharged for once or more a month. Do not recharge the battery for more than ten hours .

Check point 3. ▶ Check for battery's connectors.

A: Check the connection between battery connector and circuit connector.

Check point 4. ▶ Check whether the battery is fully discharged or not.

A: If maintained poorly without following the instruction in the manual or the battery is too old, the battery can be fully discharged and cannot be used again. In such cases please replace with a new battery.

Check point 5. ▶ Check for electronic system damage.

A: Please check if the electrical parts were exposed to water, dirt, and etc.

Check point 6. ▶ Check for motor damage.

A: If the motor is damaged, please contact the service center or the place of purchase.

-TIP

The product is structured with the exterior armor loaded on the platform, so please have at least 2 people to support the bottom of the platform when moving the vehicle.

11. Useful Tips - 2

Q: When the recharging is not working properly

Check point 1. ▶ Battery and charger's connector check

A: Check the battery and charger once again and plug them.

Check point 2. ▶ Power cord connection check

A: Please check for the firm connection of the power cable.

Check point 3. ▶ Please check for the firm connection of the power cable.

A: If the recharger does not get warmer during recharging the charger must be replaced. Please contact the vendor or customer service.

Q: Running distance reduced dramatically

Check point 1. ▶ Check if the battery is properly charged

A: The Battery may not be charged enough after the use and even when not in use, the batteries need to be charged for more than once a month or removed of the connectors.

Check point 2. ▶ Battery life check

A: The battery was purchased for more than 6 months before or it is worn out from usage. Replace the battery with a new one

Q: Why is there noise from the battery during recharging?

A: If the surroundings are quiet enough such noise can be heard, however it is normal.

Q: Why the battery warms up while recharging?

A: It is normal that the charger warms up during recharging. It is not a breakdown

12. SPECIFICATION

| BROON T8

	Туре	870
	Motor	Dual 24V 16,000RPM 7 series DC MOTOR
	Power	Rated 240W (Max. 450W)
	Battery	24V 7Ah Lead Acid
Capability	Max speed	16km/h (8km/h Speed Limit)
	Driving mileage	20 ~ 30km (Depending on driving conditions)
	Seat capacity	30kg
	Drive wheels	Four wheel drive (4WD)
	Suspension	Four wheel-independent gas shock absorber Suspension (Double wishbone)
	Dashboard	Automatic slide-in docking connection
	Instrument panel	LED Touch switch panel (7inch Tablet PC Smart system option)
	Electric steering wheel	120 phase angle detection - electronic steering wheel (self centered)
	Transmission	D - R Electronic transmission (Electronic automatic control device-5 levels / Forward-reverse electronic gear device)
	Power button	Power-off protection and auto-save function
Platform	Driving gear reducer	Plastic housing & plastic gear box (Equipped with rotation sensing encorder)
	Steering gear reducer	Plastic housing & metal gear box (Equipped with steering sensing encorder)
	Steering module	Multi-link system (Connected with ball joint and universal joint)
	Differential gear	Dual plastic gear differential
	Accelerator pedal	Electronic ratio control
	Brake pedal	Electronic ratio control
	Battery pack	Rechargeable battery pack separable from vehicle (Battery indicator)
	Seat	Ergonomically designed leather Bucket seat with urethane cushion (Detachable from vehicle using one-touch button)
	Seat belt	4-points supporting seat belt
	Processor	32bits Micro Controller Unit
	Heat sink	Aluminium
	Cooling type	Air cooling
	Cooling fan	24v Fan
Controller	Temperature sensor	Electronic temperature sensor
	Rotation sensor	Encorder (rotation counter and reverse rotation sensor)
	Steering sensor	Location sensor(Variable resistance type)
	Voltage measurement	Built in electronic voltage measuring device
	Current measurement	Built in electronic voltage measuring device
Remote Control	Frequency	2.4Ghz
	Protocol	Bluetooth 4.0 LE (It can only be paired with BROON's exclusive receiver)
	CPU	8bits Micro Controller Unit
	RF performance	Receiver Sensitivity(Rx): -93dBm, Output Power(Tx): 4dBm

12. SPECIFICATION

| BROON T8

	Туре	870
	Door	Block type detachable module (open/close)
	Hood	Block type detachable module (open/close)
	Bumper	Block type detachable module
	Fender	Block type detachable module
Exterior	Head light	High-brightness LED lamp (electronic on/off)
	Day light	High-brightness LED lamp (electronic on/off)
	Turn indicator	High-brightness LED lamp (Interlocking handle button and curve)
	Tail light	High-brightness LED lamp (electronic on/off)
	Reversing light	High-brightness LED lamp (Interlocking reverse)
	Brake light	High-brightness LED lamp (Interlocking brake)
	Wheel	Spoke type-wheel (Bearing built in)
	Tire	High-density polyurethane foam tire / Silver coating
	ASDC system	Active Safety Driving Control System
	Driving mode select system	Comfort/Normal/Dynamic 3 levels of electronic driving modes selector
Safety	Braking mode selection	Auto/Manual braking mode selection depending on the use of brake
	Intelligent electric brake	Manual Electronic Braking System / Automatic braking system with auto-detection
	Auto diagnosis system	Real-time auto diagnosis for malfunction and emergency drive during operation
	Display guidance system	LED Display
Convenience	Driving information	LED Display
	Stereo speaker	2 channels stereo-sound quality speaker
	Audio system	MP3 player connected with a vehicle
	Battery Management system	Intelligent BMS using accumulated driving data

| BROON T8 Tablet System

	OS	4.4.2
	CPU	Dual-Core 1.5Ghz
	Memory	Internal(Flash) 8GB
	Display	7inch Wide LCD (1024x600) TFT 256K
	Wireless LANsystem	802.11 b/g/n
	Bluetooth	Bluetooth 2.0
7inch	Touch screen	Capacity type, 5 Point
Tablet PC	I/O PORT	HDMI / AUDIO / SD Card(32GB)
Smart System	Audio guidence system	Voice guidance for occurrence situation
Cystem	Display guidance system	Video guidance for occurrence situation
	Driving information	Various driving information guidance
	Stereo speaker	2 channels stereo-sound quality speaker
	Audio system	Multimedia system (7inch tablet PC)
	Battery Management System	Intelligent BMS using accumulated driving data
	Self-diagnosis system	Real-time emergency situations and malfuctions indicator / Indicates detaileddiagnosis / Indicates status of malfuction or breakdowns





The most beautiful, perfect, and artistic structure ever. A breathtaking revolution of vehicles for kids, the 3rd Generation BROON.

