

HENES M7

HENES M7 PREMIUM

USER MANUAL

A whole new level of beauty set by HENES M7



FG



FG



Please review the user manual thoroughly before using our product.
Some functions can be modified for quality issues without notice.
Some differences may occur between product versions.

HENES M7

Please review our product checklist thoroughly before using our product.



- Contents of this manual may differ by version
- Functions, performance and user manual can be modified for quality purposes without notice
- Should there be any problems or enquiries please contact us

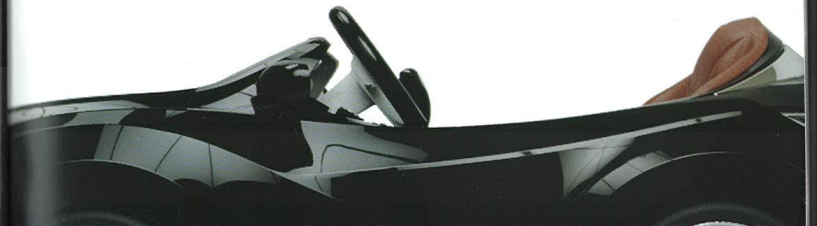
Dear customers,

We are pleased to welcome you as a new family member of HENES.

This product is a miniature motor vehicle designed for children. It is equipped with various extra functions created by the best research and production teams at HENES, hence providing a safer and more comfortable electric vehicle.

We do our best to provide your children with a once in a lifetime experience that they will talk about forever.

Thank you for choosing the HENES M7, for an unforgettable experience.



Contents

1. Before starting this user manual	
▷ Introduction / safety measure	(p.1)
2. HENES M7 plan design	
▷ HENES M7 parts & components	(p.2)
3. Components checklist	
▷ Guide for additional components	(p.3)
(steering wheel, seat bottom, remote control, charger)	
4. Product assembly	
▷ Wheels / steering wheel	(p.4)
▷ Seat / battery cover / battery terminal	(p.5)
5. Inner view	
▷ Full interior composition	(p.6)
6. Operation and function description	
▷ Inner view-1 (LCD Display / MP3 / INFO / VOICE / USB, Charging, Micro SD)	(p.7)
▷ Inner view-2 (START, STOP / REMOTE / BRAKE / SENSOR)	(p.8)
▷ Inner view-3 (DIAG / LAMP / LAMP)	(p.9)
▷ Inner view-4	(p.10)
(Drive Mode Button C, N, D / Speed Limit Button 1~5 / Forward, reverse lever / Pedal)	
▷ Operation method and function explanation	(p.11)
(Auto/Manual Braking system/Auto alignment setting)	
7. AUDIO SYSTEM	
▷ How to use the Audio	(p.12)
8. Remote Control	
▷ How to use the Remote Control	(p.13)
9. Driving Information Display	
▷ Main Panel (Start Menu / Power-off Menu / Driving Menu)	(p.14)

Contents

▷ Warning screens (Warning when driving on slopes or unstable road /	(p.15)
Control driver inner temperature increases under overload / Do not touch when driving /	
Function that does not support / Emergency stop / Lock setting / Unlock setting /	
Malfunction report / Unlock button control)	
▷ Warning screens INFO button	(p.16)
(Remaining mileage/ Avg. energy consumption / Mileage / Controller Inner temperature /	
Current battery voltage / System version / Malfunction report / Unlock)	
▷ Battery, Self Diagnosis	(p.17)
(Low battery warning / Recharging mode / Recharging / Charged / Self-diagnosis main screen)	
▷ ERROR CODE malfunction screen	(p.18~19)
(driving, steering motor malfunction / driving, steering hall sensor malfunction /	
main control system malfunction / control button malfunction)	
▷ Additional detailed diagnosis screen	(p.20)
(Self detailed diagnosis start screen / test start, diagnosis method, result display / diagnosis type screen)	
10. Recharging Method	
▷ Recharging Method	(p.21)
▷ Cautions when recharging	(p.22)
11. Battery Handling	
▷ Cautions when handling battery	(p.23)
12. Useful TIPS	
▷ When the vehicle is not operating / When the vehicle is not recharging /	
When the remaining mileage decreased noticeably	
(p.24)	
▷ When noise occurs from battery during recharging /	
When the battery warms up too much during recharging	
(p.25)	
13. Product dimension	
▷ Specification & Equipment	(p.26~37)

1. Before starting the user manual

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1) Before starting the user manual

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

⚠ WARNING

2) Cautions for safety

◆ To prevent any accident

- Do not leave the child alone when in use. Adult supervision is mandatory.
- Always operate under parental supervision.
- Never operate on hazardous places such as driveways, near vehicle, slopes, stairs, swimming pool or near water.
- Children must wear shoes at all times.
- The supervisors must be aware of possible remote controller interference with other devices.
- Children must remain seated while driving.
- The product is designed for children at ages of 3~8 years, and maximum loading weight cannot exceed over 30kg.
- Please dispose the plastic packaging away from children's reach.
- Plastic packaging could cause suffocation.

◆ 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 coming to a complete stop
- ▶ Age target and weight capacity must be followed
- ▶ Do not modify any electric circuits nor install other electric devices
- ▶ Check connections to the circuits 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

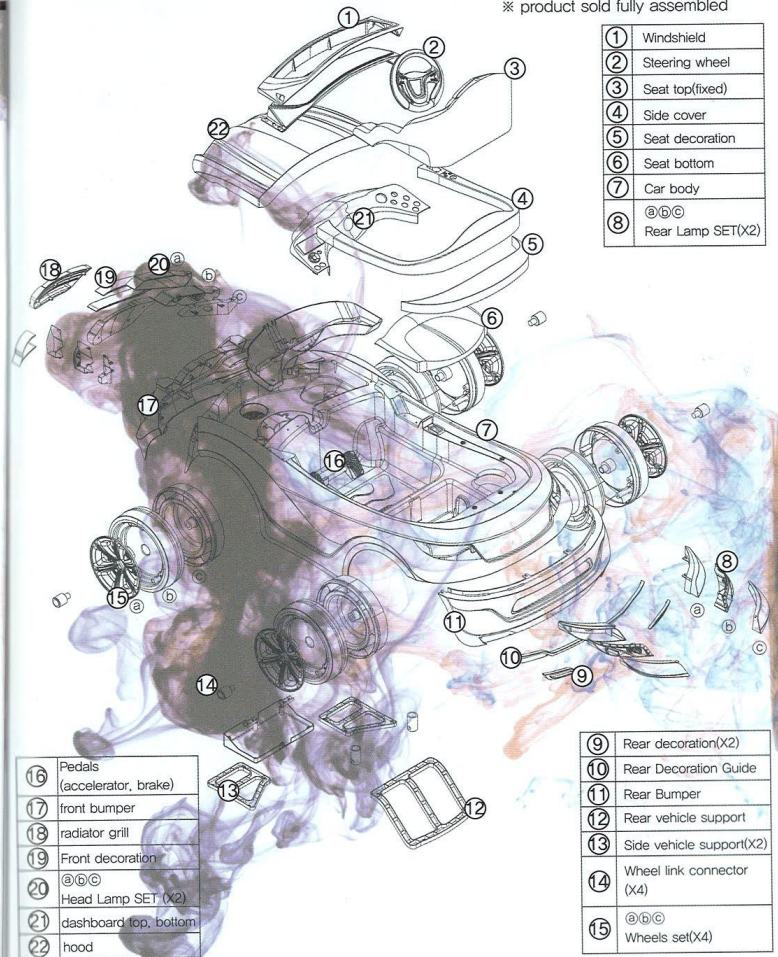
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2. HENES M7 plan design

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※ product sold fully assembled



①	Windshield
②	Steering wheel
③	Seat top(fixed)
④	Side cover
⑤	Seat decoration
⑥	Seat bottom
⑦	Car body
⑧	ⓐ/ⓑ/ⓒ Rear Lamp SET(X2)

⑬	Pedals (accelerator, brake)
⑭	front bumper
⑮	radiator grill
⑯	Front decoration
⑰	ⓐ/ⓑ/ⓒ Head Lamp SET (X2)
⑱	dashboard top, bottom
⑲	hood

⑨	Rear decoration(X2)
⑩	Rear Decoration Guide
⑪	Rear Bumper
⑫	Rear vehicle support
⑬	Side vehicle support(X2)
⑭	Wheel link connector (X4)
⑮	ⓐ/ⓑ/ⓒ Wheels set(X4)

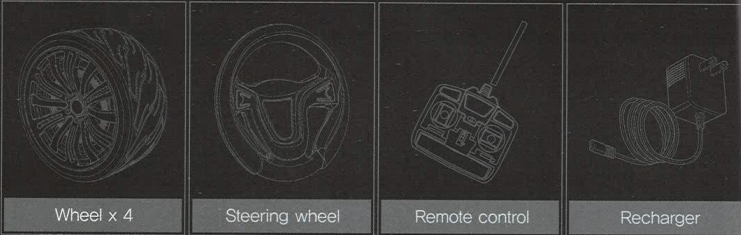
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3. Component list

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Additional components ※the steering wheel and seats require further assembly.



Wheel x 4

Steering wheel

Remote control

Recharger

※HENES M7 are sold fully assembled.
To minimize any possible damage, please refer to the user manual to assemble the removable components.



M7 03

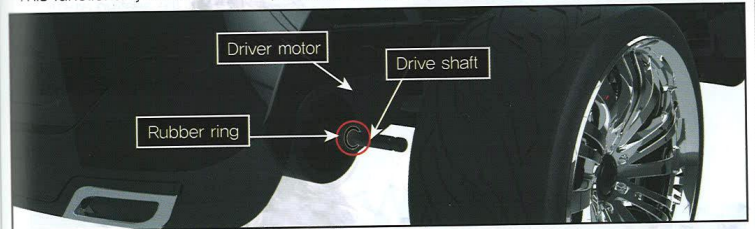
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4. Product assembly.....Wheels / steering wheel

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Wheel assembly and removal method

※ M7's wheels are manufactured to be removable with just a touch, making assembly and removal simple with no tools required.
This functionality makes the transportation, storage and alignment of the vehicle much easier.

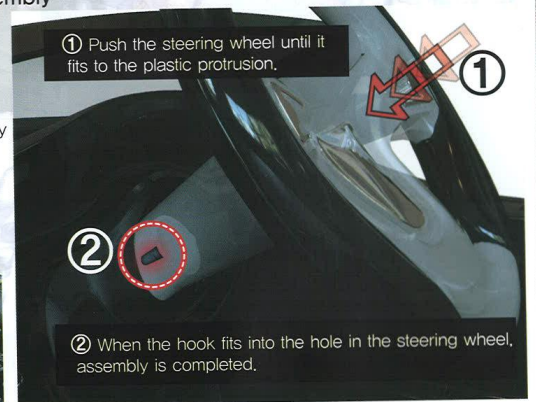
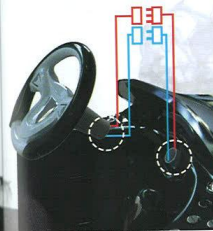


Lock button

- ① Before assembling, make sure to remove the rubber ring from the drive shaft.
- ② When assembling, press the lock button while putting the wheel into the axle, and push all the way until it clicks.
- ③ Wheels can be removed simply by pulling outward while pressing the lock button located at the center of the wheel.

Steering wheel assembly

※Link two connectors (2PIN/3PIN) attached to the vehicle to other two connectors from the steering wheel accordingly with the PIN numbers.



① Push the steering wheel until it fits to the plastic protrusion.

②

② When the hook fits into the hole in the steering wheel, assembly is completed.

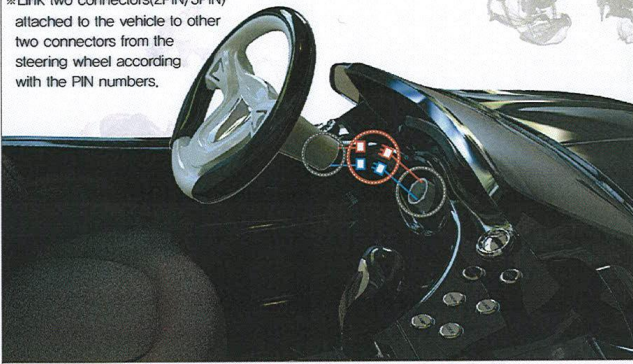
M7 04

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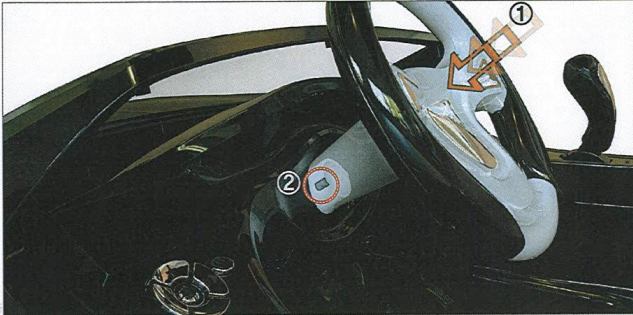
4. Product assembly.....Steering wheel

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※Link two connectors(2PIN/3PIN)
attached to the vehicle to other
two connectors from the
steering wheel according
with the PIN numbers.



①Push the steering wheel until it fits to the plastic protrusion.



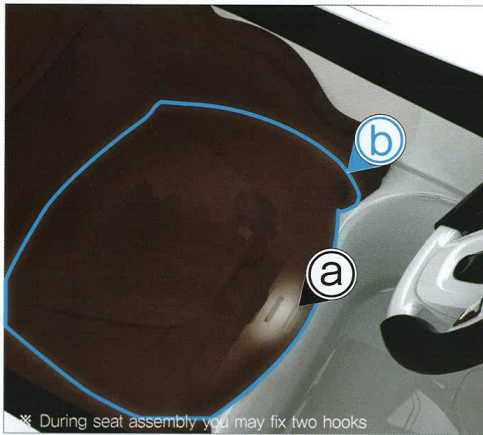
②When the hook fits into the hole in the steering wheel, assembly is completed.

M7 04

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4. Product assembly.....

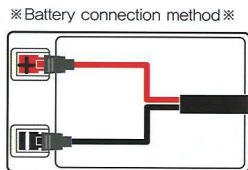
Seat / battery cover
battery terminal



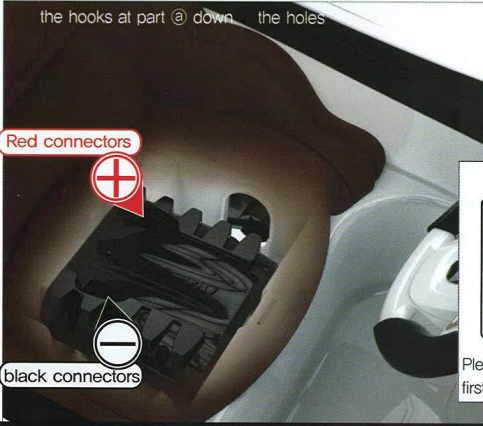
- ① Press the seat at the bottom of the seat.
- ② Pull the seat up as ①. Only the seat bottom ⑤ will be removed.



- ③ Remove the seat bottom and unscrew four connectors at battery cover with a screwdriver



Please recharge the battery fully before first operation.



- ④ Remove seat bottom and the battery cover then connect the circuits from the holes at the car bottom as shown in the figure above, with same colors and polarity.

※ The user manual must be referred as possible fire hazard when not connected properly ※

5. Inner view

LCD Display
AUDIO SYSTEM
INFO / VOICE
USB / Micro SD / AUX / Charge

Steering Wheel

START / STOP
REMOTE / BRAKE / SENSOR
IND / LAMP

Forward, reverse lever
drive mode button (C / N / D)
speed limit button (1~5)

Brake Pedal / Accelerator Pedal



M7 05

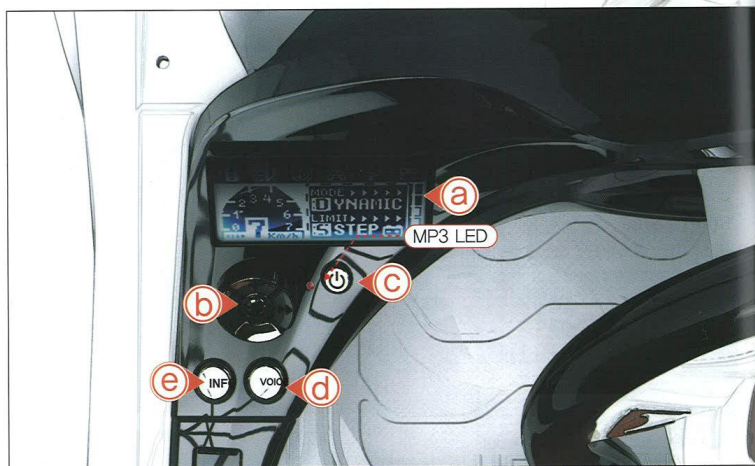
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6. Operation and function description

..... Inner view-1



- Ⓐ▶LCD display screen : vehicle status indication
- Ⓑ▶MP3 Play button: play MP3, stop, volume control configuration
- Ⓒ▶MP3 Power ON/OFF button: To turn MP3 on and off
- Ⓓ▶VOICE ON/OFF button : M7's voice information system ON/OFF button (can be configured after unlocking)
- Ⓔ▶ INFO button: To change display modes of the LCD screen
(※Please refer to 9. HENES M7 driving information display page.16)
- ▶There is a red LED lamp between Ⓑ and Ⓒ to check MP3 players power
(※Please refer to 7. AUDIO SYSTEM page,12)

HENES M7 AUDIO SYSTEM ▶
USB / Micro SD / AUX / Charge
(※Please refer to
7. AUDIO SYSTEM page.12)

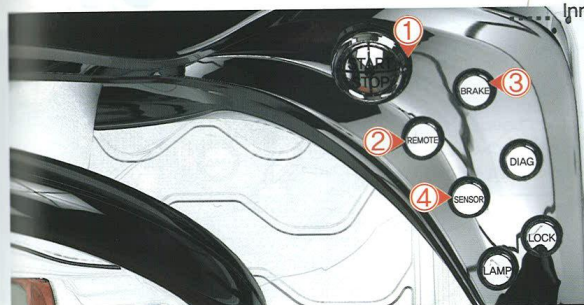


M7 07

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6. Operation and function description

..... Inner view-2



- ①▶START/STOP : Press for 2~3 seconds until it powers ON with starting sound
When turning off, press the button while the vehicle is at a complete stop.
※ Setting for power-cut prevention system
-power can be cut by using START/STOP button during operation
(power-cut prevention will be ON by pressing the power button 3 times while unlocked / power-cut prevention will be OFF by pressing the button 3 times again)
◆Power Saving option : Automatic power cut function
▶If no signal is detected for 10 min. power will be OFF
▶Pressing the LOCK button 5 times to unlock ▶Pressing the VOICE button 5 times with beep sound ▶Pressing the lock button 5 times to lock
- ②▶REMOTE : REMOTE ON is the mode operated by the remote control which will be displayed with a remote control icon on the LCD panel. REMOTE OFF will make the controller icon disappear and the mode will change into manual operation.
▶Press the LOCK button 5 times when the power is ON. You may change into desired operation mode for control after listening to the unlock indication. You may continue operating the vehicle by pressing the lock button once again
▶Such method is applied to all except for MP3 control, INFO and LAMP button.
(※Please refer to 8. How to use the remote control at page.13)
- ③▶BRAKE : Brake pedal ON/OFF button
-Automatic (BRAKE OFF) : The velocity and driving conditions will be measured to automatically control the acceleration and reduction of speed by electric control system, thus letting the inexperienced children to easily operate the vehicle with an accelerator pedal.
-Manual (BRAKE ON) : One can enjoy dynamical driving experience using both accelerator pedal and brake pedal
(※Please refer to page.11)
- ④▶SENSOR : The sensor used to align the steering wheel sensor
(Please refer to page.11)

M7 08

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6. Operation and function description

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Inner view-3

⑤ ▶ DIAG : button for self-diagnosis.

-Self-diagnosis function automatically provides messages to the users for current vehicle status or when a problem occurs. During self-diagnosis no one shall be aboard and do not let children within a 2m radius. If any problem occurs with the vehicle please call our customer service for help with each error code

-First self-diagnose report : driving motor, driving motor hall sensor, steering motor, steering motor hall sensor, main control system, control button, wireless receiver inside the controller, battery discharge

-Second additional detailed analysis : accelerator pedal, brake pedal, forward, reverse lever, electric steering wheel. (*Second additional detailed analysis needs to be done with directions given by voice messages and displays.)

-Self-diagnosis method : while unlocked ▷ press the DIAG button once ▷ No boarding allowed, check the surroundings, check the testing area and press the DIAG button once again ▷ first self-diagnosis under operation ▷ vehicle status check ▷ if second diagnosis is required ▷ press the DIAG button once again ▷ diagnosis complete ▷ Continue with the directions given by voice message and display

⑥ ▶ LAMP : Front, rear lamp ON/OFF button - auxiliary lamp ON with power supply

-When pressed once : front day-light ON / When pressed twice : front headlight, front day-light, rear taillight all ON / When pressed 3 times : all lights OFF

-Current status can be checked by the LCD display

⑦ ▶ LOCK : vehicle setting lock, unlock button

-The LOCK button is to control and safely operate the vehicle. In order to set any required modes and necessary settings press the button 5 times when the vehicle is at complete stop. Once the setting is done please press the LOCK button again once to LOCK to enable the operation of the vehicle. **The vehicle can only be operated with the LOCK ON.**

M7 09

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6. Operation and function description

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..... Inner view-4

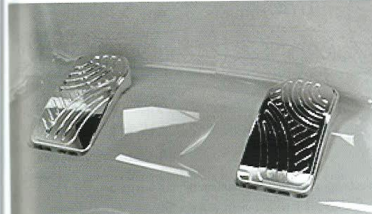
⑨ ▶ 5-level speed control system button :
⑨ can set the speed limit to 5-levels limiting the maximum speed of the vehicle

⑩ ▶ Driving mode button : sets the driving mode

- C (comfort) : speed, driving and handling are the slowest while providing precise control, which is suitable for operating in closed areas.

- N (normal) : This mode does not allow sudden starts or stops. It will provide stable handling and response rates.

- D (dynamic) : Speed and power steering are all at the top level which has the best response rates and the shortest braking distance. However, the use of this mode is strictly limited only with the presence of the adult supervision.



▶ Brake, accelerator pedal
(*Please refer to 6. Operation and function description on page 11)



▶ Forward, reverse lever :
The lever controls forward and reverse in manual operation and is composed of 3-levels: forward/neutral/reverse.
*Please use the shift between the forward, reverse lever only in complete stop.

M7 10

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6. Operation and function description

-Auto/Manual Braking system
-Auto alignment setting

Auto/Manual Braking select system

While the HENES M7 employs the electronic variable brake pedals independently, younger children may be unable to manage the brake pedal, therefore the auto-braking system is applied which enables braking just with the accelerator.

Thus when auto-braking mode is set as the child releases the accelerator the control system will automatically brake to a stop without the use of brake pedal.

The auto-braking mode is a powerful intelligent electronic braking system that is activated by sensing the vehicle speed.

In manual braking mode the steering wheel, accelerator and brake pedal are necessary to control the vehicle. The accelerator and brake pedal are converted automatically into variable mode so the driver can control acceleration and braking of the vehicle. Also in manual braking mode one push of the accelerator pedal allows 5~8m run by inertia which is quite similar to real driving.

Manual braking mode unlocks all the functions of HENES M7 and is only for children who can control the speed using both accelerator and brake pedal to accelerate and stop.

Driving Mode	Brake pedal	Accelerator Pedal	Driving mode	Speed
auto braking mode	OFF	ON	C, N, D adjustable	1~5 levels adjustable
how to set	Press LOCK 5 times ▶ Press REMOTE (OFF) ▶ Press LOCK 1 time ▶ operate Press LOCK 5 times ▶ Press BRAKE (OFF) ▶ Press LOCK 1 time ▶ operate			
manual braking mode	ON	ON	DYNAMIC	5 levels
how to set	Press LOCK 5 times ▶ Press BRAKE (ON) ▶ Press LOCK 1 time ▶ operate			

※ Electronic setting for wheel-alignment

If the auto-alignment is incorrect : ①Align the wheels using remote controller or steering wheel >> ②Press the Lock button 5 times to unlock >> ③Press the SENSOR button 3 times to set as aligned configuration >> ④Press the LOCK button 1 time to lock.

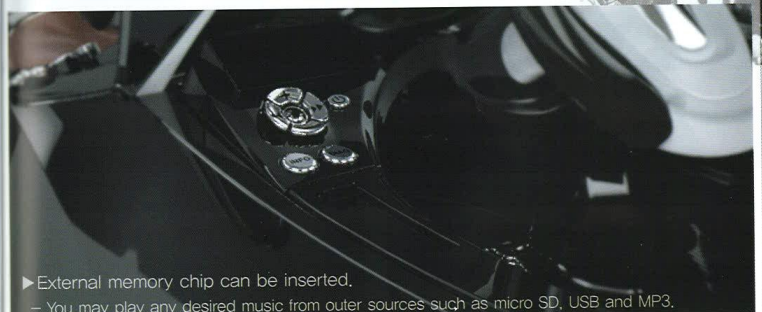
Auto direction alignment system settings and cancelation during operation : HENES M7 is equipped with a function that automatically aligns the wheels straight with the axle. Although the function is designed for easier steering, you may turn the function off if not desired.

①Press the Lock button 5 times to unlock >> ②Press the LAMP button 3 times to shut the function OFF >> ③Press 3 times again to turn it ON >> ④Press the LOCK button 1 time to lock.

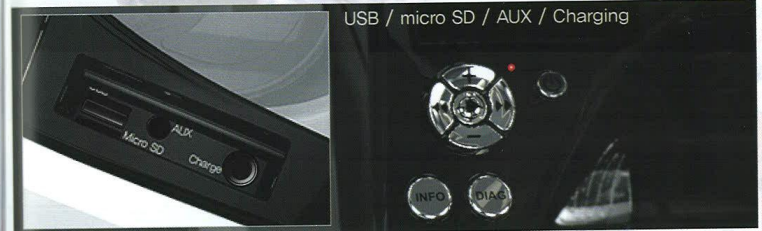
M7 11

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7. AUDIO SYSTEM



- ▶ External memory chip can be inserted.
- You may play any desired music from outer sources such as micro SD, USB and MP3.



USB / micro SD / AUX / Charging

⏻ Power ON/OFF button / + Volume UP, – Volume DOWN

▶▶ FF (Fast Forward) / ◀◀ REW (Rewind)

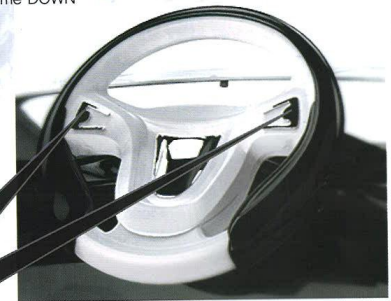
|| Play & Pause

▶ Red LED will light up when MP3 is powered.

▶ When USB or AUX is inserted the songs will be played while the LED indicator blinks.

▶ When all micro SD, USB, MP3 external input are connected the MP3 external input will be played with priority.

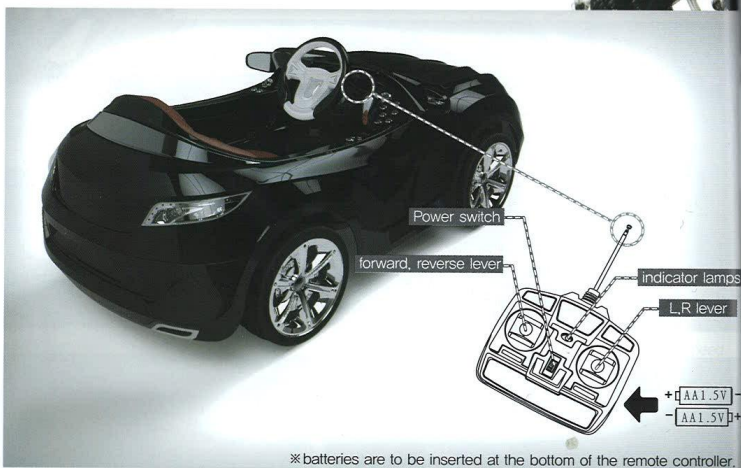
While playing MP3 the Left/Right buttons on the steering wheel function as ▶▶ FF ◀◀ REW which enables the drivers to choose for desired song.



M7 12

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8. How to use remote control



※batteries are to be inserted at the bottom of the remote controller.

- ▶ Install the batteries, turn the power ON,(check for the led light)
- ▶ Unlock the vehicle(five times LOCK button) and click the REMOTE button.
- ▶ Check REMOTE MODE ON/ OFF BUTTON on LCD display.
- ▶ After checking the screen press the LOCK button once again to lock the setting and be ready to operate with the remote control.
- ▶ To exit the remote control mode and shift to driver mode simply repeat the steps above and turn the remote mode OFF.
- ▶ Please refer to page. 11 for auto-alignment setting during remote controlling.

※ Please be aware that there can be frequency interference with other remote devices.



- ▶ (Optional) 2,4Ghz remote control
Please refer to the enclosed user's manual for the 2,4Ghz remote control

The remote control system equipped in HENES M7 is connected with electric steering wheel's sensing system which enables precise control divided in to 5 different levels of steer control

M7 13

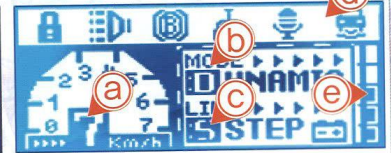
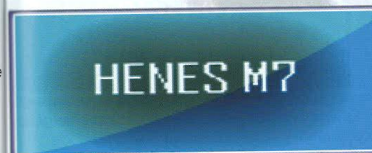
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9. Driving information display

..... Lights and indicators



- ▶ The main display panel installed in M7 indicates current operation status and conditions such as vehicle speed, the distance covered, total mileage, remaining battery, remaining running distance.



- ▶ M7 main display panel composition
 - Ⓐ Current vehicle velocity
 - Ⓑ Current drive mode (comfort, normal, dynamic)
 - Ⓒ Velocity configuration (1~5 levels)
 - Ⓓ Indicator with ON setting (lock, lamp, brake, remote, voice)
 - Ⓔ Remaining battery

※ ON/OFF conditions of each mode can be checked by Ⓓ icon

M7 14

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9. Driving information display

..... Lights and indicators

※ Warning screen by cases. ※



▶ Warning screen when driving on slopes or unstable terrain. (please move to safer area for operation)



▶ Warning screen for overloaded operation. (operation halted / please restart the system under safer load)



▶ Warning screen for inner controller overheating. (operation halted/Control prohibited during operation (please stop the vehicle at safe area before changing the mode))



▶ Control prohibited during operation. (please stop the vehicle at safe area before changing the mode)



▶ Function currently not supported by HENES M7.



▶ Emergency stop screen / malfunction emergency stop screen. please check for the error code



▶ Please set the lock ON. (press the Lock button once for the operation after the setting is done)



▶ Please set the lock OFF. (press the Lock button five times for system configuration)

9. Driving information display

..... Lights and indicators

※ Display components with INFO button pressed (real-time display conversion) ※



▶ Remaining running distance. (Please recharge the battery when the indication is on)



▶ Average electronic current usage



▶ Total mileage (will be reset after 1000Km)



▶ Controller Inner Temperature



▶ Current Battery Voltage



▶ Current System Version

※ Warning screens by case ※



▶ Problem detected please check the error code



▶ Vehicle LOCK cancelation button control screen

M7 15

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M7 16

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9. Driving information display

..... Lights and indicators

※ Screen related with battery status ※



▶▶ Low-voltage warning during operation (indicated by 30%, 15%, 5%) (Please recharge the battery)



▶ Screen indication when recharging starts



▶ Remaining recharge time indication (Back-light OFF / Press INFO button for status report with LCD display lit up for recharging status and remaining time indication.)



▶ Screen indication when recharging is done

※ Generally when the recharging is finished the battery is at its 90~95% of the storage. Also depending on the battery condition the power may be shorter than it seems. So please leave the charger connected for 2~3 extra hours even after the recharging is done.

※ DIAG Button / Self-diagnosis button Input ※



▶ When pressing the DIAG button once (press again to continue when requesting self-diagnosis)



▶ Display configuration for vehicle auto-diagnosis (Please do not aboard the vehicle while self-diagnosing)

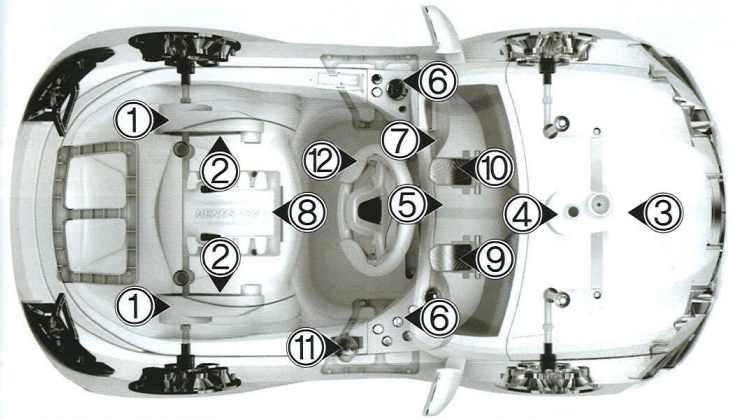
M7 17

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9. Driving information display

..... Lights and indicators

※ Malfunction indication per ERROR CODE ※



▶ ①, ③ ERROR CODE 1, 3:
Driving Motor / Steering Motor malfunction
▶ Please check the connections of the indicated motor. Manual, Remote mode, forward and reverse test drive to check for the motor status.



▶ ②, ④ ERROR CODE 2, 4:
Driving motor / Steering Motor sensor malfunction
▶ Please contact the customer service for proper help.

M7 18

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9. Driving information display

..... Lights and indicators

※ ERROR CODE screen ※



- ▶ ⑤ ERROR CODE 5: Main control system malfunction.
- ▷ Please check for the power status and if the vehicle can be operated.



- ▶ ⑥ ERROR CODE 6: Control button malfunction
- ▷ Please check the Lock status.



- ▶ ⑦ ERROR CODE 7: RF Module malfunction
- ▷ Check for Remote Controller's battery and power lights.



- ▶ ⑧ ERROR CODE 8: Battery exchange
- ▷ Possible battery discharge; please exchange with new batteries.



- ▶ ⑨, ⑩ ERROR CODE 9,10: accelerator/brake malfunction
- ▷ Please remove the pedal cover at the bottom and check for the line connections between each pedal.



- ▶ ⑪ ERROR CODE 11: Forward, reverse lever malfunction
- ▷ Please check for the line connections underneath forward, reverse levers



- ▶ ERROR CODE 12: electronic steering handle malfunction
- ▷ Please turn the machine off and restart the machine

※ We do our best to provide a solution for any troubles. When an error code is encountered please check the vehicle with reference to clauses 14, and 15, of the user manual then call our customer centers and do not personally disassemble or reassemble the product.

M7 19

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9. Driving information display

..... Lights and indicators

※ Additional detailed diagnosis screen ※

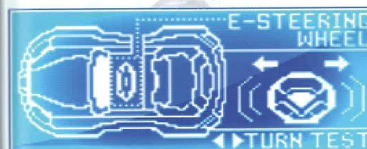


- ▶ Normal status indication screen after diagnosis

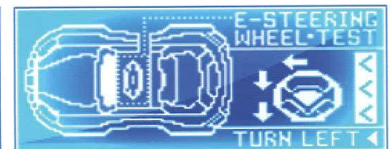


- ▶ Additional detailed diagnosis screen (press DIAG button once)

※ Additional detailed diagnosis test image (common for additional detailed diagnosis) ※



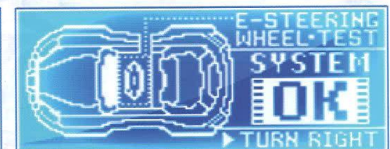
- ▶ Electronic steering wheel test starting screen



- ▶ Please turn all the way to the left as directed by screen and the voice messages.



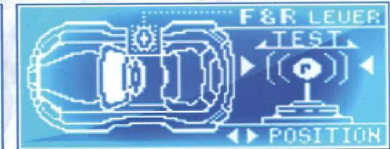
- ▶ Re-input screen for no input (will automatically shift to the next level when no-input continues)



- ▶ Screen for normal operation after the diagnosis is performed (please refer to the ERROR CODE in case of malfunction)



- ▶ Accelerator, brake pedal (follow the directions provided from screens and voice messages)



- ▶ Forward, reverse lever test (follow the directions provided from screens and voice messages)

※ Additional detailed diagnosis are for accelerator pedal, brake pedal, electronic steering wheel, forward, reverse lever test. (As from above, continue with the directions provided from screens and voice messages)

M7 20

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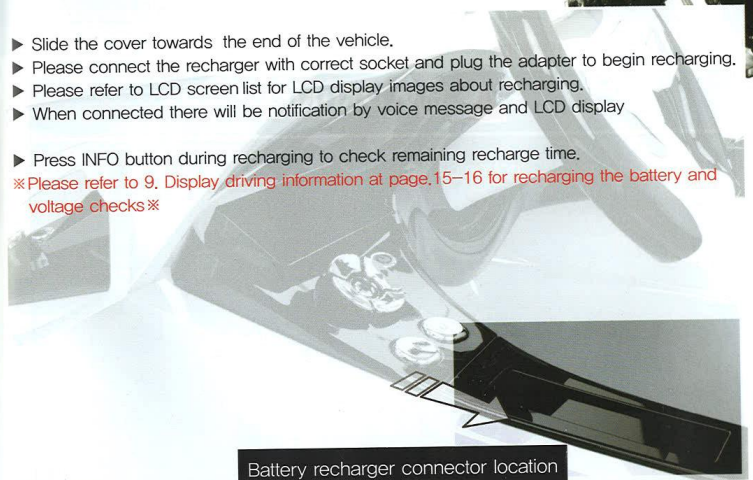
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10. Recharging method.....How to recharge the battery

- ▶ Slide the cover towards the end of the vehicle.
- ▶ Please connect the recharger with correct socket and plug the adapter to begin recharging.
- ▶ Please refer to LCD screen list for LCD display images about recharging.
- ▶ When connected there will be notification by voice message and LCD display

- ▶ Press INFO button during recharging to check remaining recharge time.
- ※ Please refer to 9, Display driving information at page,15-16 for recharging the battery and voltage checks ※



Battery recharger connector location

- ▶ Lamp indication when recharging
 - Red : Current supply is normal and recharging is normal.
 - Green : Lacks the current supply which indicates possible malfunction at the recharger or controller.
 - No lamp indication means that either charger or lamp has malfunction.



- ▶ Recharging progress can be checked via LCD display by pressing the INFO button.
- ▶ Generally when the recharging is finished the battery is at its 90~95% of the storage. Also depending on the battery condition the power may be shorter than it seems. So please leave the charger connected for 2~3 extra hours even after the recharging is done.
- ▶ Use INFO button to check the battery status to check current voltage.
- ▶ When the indicator shows 12.8 or more at full charge, it indicates that the battery is normal.

10. Recharging method.....cautions when recharging

※Only allow adults to recharge the battery※

WARNING

To prevent fire and electronic shock

- ▶ Always only use the charger and rechargeable battery provided with the product.
- ▶ NEVER use the wrong battery or recharger as this may cause a fire or explosion.
- ▶ Do NOT use this battery and recharger on other products. As an overheat, fire, or explosion may occur.
- ▶ NEVER modify the electronic circuits as 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 catch 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 (it's a slide cover shape which only reveals when the cover is open)
- ▶ The power switch must be OFF during recharging.
- ▶ When recharging please leave the battery charged for about 4~6 hours. Do NOT recharge the battery more than 10 hours to prevent overheating.
- ▶ Please recharge the battery if the vehicle slows down.

Battery recharging time and usage (new battery as a standard)

Battery (10Ah)	
Recharging time	4 hours or more
normal duration	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 charger from HENES co., Ltd.
- ▶ Battery's charging time and duration can differ by charging condition and the circumstances so please use this time for recharge and usage only as a reference.

M7 22

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11. Battery handling.....cautions when handling

※Battery (+),(-) connection warning※

- ①Please be aware to make sure the line colors match with the battery connections.
- ②When not using for long period of time please remove the connection for the battery.
- ③Recharge for at least once a month for better life expectancy.
- ④Battery is an expandable supply and will not be covered by the warranty. Please purchase a new one when discharged completely.

WARNING

Please be sure to check for right connections for ⊕, ⊖ circuits.

※If not connected properly it may become fire hazard so please refer to the user manual for right 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.

M7 23

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12. Useful TIP-1

Q : The vehicle is not moving.

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

A : If the vehicle experiences steeper slopes or overloads with extra weight or receives heavy damage, the vehicle will shut down after LCD display and voice message.
Leave the vehicle off for a while and restart under correct circumstances.

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 to see for fuse function

A : This product is equipped with the fuse. In case of overload or malfunction the fuse will block the circuit for 10~25 seconds and release.

Check point 4.▶ Battery connector and check for circuit connections

A : Check again for battery's connector.

Check point 5.▶ Check for full discharge of the battery

A : If not maintained properly as indicated in the manual or the battery is old they discharged and cannot be used again. In such cases please replace with the new battery.

Check point 6.▶ Check for electronic system damage

A : Check for circuit corrosion due to water or if dust, soil, sand corrupts the circuits.

Check point 7.▶ Check for motor damage

A : If the motor is damaged please contact the vendor or customer center.

M7 24

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12. Useful TIP-2

Q : When recharging is not working properly

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

A : Check the battery and charger and plug

Check point 2.▶ Power cord connection check

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

Check point 3.▶ Recharger malfunction

A : If the recharger does not get warm during recharging the charger must be replaced.
Please contact customer services

Q : Running distance reduced dramatically

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

A : The Battery may not be charged enough after 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 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

M7 25

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13. SPECIFICATION & EQUIPMENT

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Performance	Motor form	12V 15,000RPM DC Motor
	Motor capacity	35~50W (Dual type)
Performance	Battery spec.	12V 10Ah Lead Acid
	Maximum velocity	7 km/h
	Running distance with full battery	12 km (* may differ from the circumstances)
	Length	1200 mm
Dimension	Width	640 mm
	Height	470 mm
	Weight	17kg
	Seat capacity/weight	1person / less than 30kg
	Tire	D:236mm / W : 103mm
	Sash	Suspension
Steering		Auto-alignment rack & pinion type electronic steering wheel
Steering column		Sensing type shaftless removable electronic steering column
Acceleration control		PWM acceleration automatic regulating controller type (electronic variable accelerator interlocked)
Braking control		PWM braking automatic regulating controller type (electronic variable brake interlocked)
Drive system		Rear drive (independent dual motor type)
Transmission		Electronically automated in 5-levels
Control	CPU	Multi linked 3 CPU (Main CPU, Display CPU, Voice CPU)
	Memory	Dual Flash Memory
	PWM Switching	MOS FET X 8
	Heat sink	Aluminum
	Cooling method	Air cooled
	Cooling fan	Automated interlocking system with thermal sensor cooling fan with low noise
	Temperature sensor	Electronic heat sensor
	Revolution sensor	Hall sensor type revolution detection sensor
	Position sensor	Variable type position and displacement sensor
Appearance	Voltage sensor	Electronic voltage sensor integrated
	Current sensor	Electronic current sensor integrated
	High gosh body	Ultra fine surface with high quality gloss composite PP applied
	High intensity LED light	Front: White high-intensity LED lamp / Rear: Red high-intensity LED lamp
	LED daylight	20 white ultra-bright LED daylight line up front
Appearance	Front bumper	Removable front bumper with tandem structure applied
	Rear bumper	removable rear bumper applied

M7 26

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13. SPECIFICATION & EQUIPMENT

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Appearance	Bumper decoration	Chrome-deposited front/rear bumper decoration applied
	Grill	Chrome-deposited dual-structure grill applied
	Windshield	High transparency, high-strength Polycarbonate
Interior	Wheel	Chrome-deposited wheel with vacuum deposition method applied
	Forward, Reverse gear lever	Black ABS material and Chrome deposition cover applied
	Leather seat	Leather seat with the draping method applied
	Urethane foam seat cushion	Poly-urethane foam seat cushion applied
	Battery cover	Sanding-processed battery cover that protects battery and sockets
	Accelerator and brake	Chrome-deposited accelerator and brake pedal
	Electronic switch	Chrome-deposited electronic switch
Safety	Recharging hall/MP3 protection	Sliding type recharging hall / MP3 protection cover
	ASDC System	Active Safety Driving Control
	Auto Alignment	Rev. count detection for Left and Right- auto direct electronic alignment function
	Speed interlocking steering	Steering wheel motor speed and sensitivity automatically changes by vehicle speed
	Driving mode select system	Comfort/Normal/Dynamic 3-levels of electronic driving mode settings
Convenience	Braking mode select system	Auto or manual braking mode selection depend on use of the brake
	Intelligent electronic brake	Automatic electronic braking system that detects vehicle speed, terrain and slopes
	Electronic Start/Stop	integrated power-cut prevention system during operation
	Remote Control device	High precision control, automated direct alignment program interlocked
	Smart voice information system	Audio guidance for 100 occasions and information
Convenience	Smart video information system	Video guidance for 200 occasions and information
	LCD display	Blue backlight LCD display applied
	MP3 Player	Supports USB, MiniSD, AUX
	Speaker	2.1 Channel 3 Speaker system
	Auto diagnosis system	Real-time auto diagnosis during operation
	Self diagnosis system	Convert to diagnosis mode for detailed failure diagnosis for 1st and 2nd levels
	Driving Information	Real-time driving information, driving history, car status, battery, malfunction/warnings
	Battery Management System	Intelligent BMS with driving data applied
	One-touch removable tire	One-touch removable tire using the lock button in the middle
	One-touch removable seat cover	Push type one-touch removable seat cover

M7 27

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