1. SPECIFICATION

<table>
<thead>
<tr>
<th>Item</th>
<th>Front Seat</th>
<th>Rear 1st Row Seat</th>
<th>Rear 2nd Row Seat</th>
<th>Rear 3rd Row Seat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Headrest</td>
<td>Tilt</td>
<td>25°</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Up/down</td>
<td>60 mm (20 mmx3)</td>
<td>100 mm (20 mmx5)</td>
<td>120 mm (20 mmx6)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>120 mm (20 mmx6)</td>
<td></td>
</tr>
<tr>
<td>Seat</td>
<td>Reclining</td>
<td>80° (2°x40)</td>
<td>76° (2°x38)</td>
<td>76° (2°x38)</td>
</tr>
<tr>
<td></td>
<td>Folding</td>
<td>-</td>
<td>105°</td>
<td>105°</td>
</tr>
<tr>
<td></td>
<td>Sliding</td>
<td>228 mm (192+36 mm)</td>
<td>380 mm (140+240 mm)</td>
<td>340 mm (100+240 mm)</td>
</tr>
<tr>
<td></td>
<td>Seat warmer</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

2. WARNINGS FOR POWER SEAT

1. Adjust the driver's seat before driving.
2. Make sure that the seat is firmly secured after adjusting.
3. Never drive the vehicle with the head restraint removed or lowered excessively. Otherwise, your neck, spine or other parts of the body can be severely injured in the event of an accident.
   - If you recline the seatback excessively, you could slide under the seat belt and be injured severely in a collision.
4. Do not put any object that could damage the seat on the seat.
5. The front and rear seats are equipped with the heated wire (seat warmer) system. Using the seat warmer system excessively may cause minor burns. The following occupants should exercise special care when using the heated wire seat:
   - Infant, child, old or handicapped person
   - Person with sensitive skin
   - Exhausted person
   - Persons who is drunk or took medicine which causes drowsiness such as sleeping pills, cold tablets, etc.
6. Make sure that the head restraints are in place and secured properly. Never drive the vehicle with the head restraint removed.
   - To minimize the injuries in a collision or an abrupt stop, make sure the seatback is in the upright position before driving. If the seatback is reclined too much, the occupant could slide under the seat belt in a collision or an abrupt stop and cannot be protected properly by the airbag system.
3. CAUTIONS FOR POWER SEAT

1. You can operate the power seat with the ignition switch OFF. However, frequent operation of the seat switch with the engine stopped can result in battery becoming discharged.
2. Operating more than one seat adjustment switch at the same time can cause damage to the seat motor. Therefore, operate the seat switch only one at a time.
3. Do not use organic solvents such as benzene, thinner, alcohol or gasoline to prevent the seat cover from being damaged while cleaning.
4. Do not operate the seat position adjustment switch forcefully when the seat does not move or it contacts an object.
5. If the power seat is not operated, check and correct the problem before driving off.

4. CHANGES IN SEAT & SEAT BELT

1) Front Seat

<table>
<thead>
<tr>
<th>Driver's Seat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Old</td>
</tr>
<tr>
<td><img src="image" alt="Driver's Seat Old" /></td>
</tr>
</tbody>
</table>

- Seat air bag added; armrest and lumbar support removed
- Lumbar support used for vehicle without seat air bag

<table>
<thead>
<tr>
<th>Front Passenger's Seat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Old</td>
</tr>
<tr>
<td><img src="image" alt="Front Passenger's Seat Old" /></td>
</tr>
</tbody>
</table>

- Under tray removed
2) Rear Seats

Outer storage box and 2-point seat belts for LH/RH seat removed as the rear 1st row seat swing function has been removed
Rear 1st row and 2nd row seat cushions changed (11p Only)

3) Rear Seat Rails

Moving distance for rear 1st row and 2nd row seats changed; whole moving distance changed (from 680 mm to 720 mm)
OVERVIEW AND OPERATING PROCESS

1. LAYOUT AND COMPONENTS

1) Components of Seat

Seat Control Switch (Driver’s Seat)

- Sliding control
- Seat position control
- Seat height control
- Reclining control

- Sliding adjust lever
- Seat warmer switch
- Back flat adjust lever
- Back supporter (Driver’s seat)
2. COMPOSITIONS OF SEAT BELT

1) 11 Passengers

- Front Seat Belt (3 point)

- Rear 1st row (3 point + 2 point)

- Rear 2nd row (3 point + 2 point)

- Rear 3rd row (3 point + 2 point)
2) 9 Passengers

► Front Seat Belt (3 point)

► Rear 1st row (3 point)

► Rear 2nd row (3 point)

► Rear 3rd row (3 point + 2 point)
3) 7 Passengers

► Front Seat Belt (3 point)

► Rear 1st row (3 point)

► Rear 2nd row (3 point)
3. SEAT LAYOUT

1) Layout - 11 Passengers

- Front seat: Move 36 mm from the far end to the front
- Rear 1st seat: Movable
- Rear 2nd seat: Movable
- Rear 3rd seat: Fixed

- Driver's seat
- Second row seat (left)
- Second row seat (right)
- Third row seat (left)
- Third row seat (right)
- Fourth row seats
- Center jump seat
- Passenger's seat

---

Modification basis
Application basis
Affected VIN

SEAT / SEAT BELT
RODIUS 2013.02
2) Layout - 9 Passengers

- Front seat: Move 36 mm from the far end to the front
- Rear 1st seat: Movable
- Rear 2nd seat: Movable
- Rear 3rd seat: Fixed
3) Layout - 7 Passengers

- Front seat: Move 36mm from the far end to the front
- Rear 1st seat: Movable
- Rear 2nd seat: movable
4) Various Seat Arrangement

▶ Front seat & rear 1st seat : Semi full flat
- Front seat : Move to the far front
  Back semi full flat
- Rear 1st seat : Move to the far end
- Rear 2nd seat: Move to the far end
- Rear 3rd seat : Fixed

▶ Rear 1st & 2nd seat full flat
- Front seat : Move 36 mm from the far end to the front
- Rear 1st seat : Move to the far front
  Remove head rest Back full flat
- Rear 2nd seat: Move to the far end
  Back semi full flat
- Rear 3rd seat : Fixed
8 passengers with loading

- Front seat: Move 36 mm from the far end to the front
- Rear 1st seat: Middle
- Rear 2nd seat: Middle
- Rear 3rd seat: Double folding

5 passengers with loading

- Front seat: Move 36 mm from the far end to the front
- Rear 1st seat: Move to the far end
- Rear 2nd seat: Middle
- Rear 3rd seat: Double folding
2 passengers with loading

- Front seat: Move to the far end
- Rear 1st seat: Middle / Back folding
- Rear 2nd seat: Middle / Back folding
- Rear 3rd seat: Fix / Back folding
5) Sliding-Moving Amount

<table>
<thead>
<tr>
<th>Item</th>
<th>Sliding distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front seats (A)</td>
<td>228 mm</td>
</tr>
<tr>
<td>Rear 1st row seats (B)</td>
<td>380 mm</td>
</tr>
<tr>
<td>Rear 2nd row seats (C)</td>
<td>340 mm</td>
</tr>
<tr>
<td>Total length of rear seat rail</td>
<td>1,610 mm</td>
</tr>
</tbody>
</table>
4. FRONT SEAT

1) To Adjust Front Seat

While the driver seat is provided as two models: a power seat and a manual seat, the manual seat is only used for front passenger seat.

▶ To adjust headrest

To adjust the height of the headrest, raise the headrest without operating the headrest support sleeve (A) and lower it while pressing the headrest support sleeve.

(However, raise the headrest while pressing the headrest support sleeve (A) in order to remove it.)

To adjust headrest tilting

Move the headrest to the arrow direction to adjust the angle.
### To adjust seat slide

<table>
<thead>
<tr>
<th>Power Seat</th>
<th>Manual Seat</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>To adjust seat slide</strong></td>
<td><strong>To adjust seat slide</strong></td>
</tr>
<tr>
<td><img src="image1" alt="Power Seat Slide" /></td>
<td><img src="image2" alt="Manual Seat Slide" /></td>
</tr>
</tbody>
</table>

Moving the slide switch forward and rearward activates the slide motor to move the seat forward and rearward.

### To adjust seat back angle

<table>
<thead>
<tr>
<th>Power Seat</th>
<th>Manual Seat</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>To adjust seat back angle</strong></td>
<td><strong>To adjust seat back angle</strong></td>
</tr>
<tr>
<td><img src="image3" alt="Power Seat Back" /></td>
<td><img src="image4" alt="Manual Seat Back" /></td>
</tr>
</tbody>
</table>

When moving the upper part of the recline switch forward/backward, the seatback angle is adjusted as the recline motor rotates the rail.

To move the seat forward or backward, pull and hold the seat slide lever up and move the seat.

To fold the seatback, pull the seatback lock release lever to release the lock. Then, lean back to the desired angle and release the lever.
### Power Seat

**To adjust seat cushion angle**

When moving the front and rear parts of the slide switch upwards or downwards, the front and rear up/down motors rotate the rails to move the front and rear side of the cushion up/down.

**To adjust seat height**

When moving the slide switch up/down, the front rear up/down motor rotates the rail to move the whole seat cushion up/down.

### Manual Seat

**To adjust seat cushion angle and height**

Turn the adjusting knob on the side of the seat clockwise or anticlockwise to adjust the height or angle of the front side or rear side of the cushion.

**To adjust driver seat lumbar support**

When you raise and lower the adjusting lever on the power and manual seats, the lumbar support goes in and out of the seat.

---

**NOTE**

The lumbar support is only fitted to the vehicle without the seat air bag.
2) Front Seat Mechanism (Based on Power Seat)

(1) Components

The descriptions in this chapter are based on the driver’s seat and rear 1st seat.
(2) Operation of seat

**Sliding**
Seat moves from front to rear controlled by sliding control switch

**Seat cushion angle adjustment (front end)**
Front side of seat moves up/down controlled by seat position control switch

**Seat cushion angle adjustment (rear end)**
Rear side of seat moves up/down controlled by seat position control switch
Seat cushion height adjustment

Seat moves up/down controlled by seat height control switch

Seatback reclining

Seat back reclining controlled by seat reclining control switch
(3) Operation of center seat

When seating

When jumping

- Pull up the center seat when to jump
- Push down the center seat when to seat
(4) Rear 1st & 2nd row seat mechanisms

<table>
<thead>
<tr>
<th>Seat back folding cable</th>
<th>Seat back flat cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Folding lever</td>
<td>Seat back flat cable</td>
</tr>
<tr>
<td></td>
<td>Flat lever</td>
</tr>
</tbody>
</table>

- Seat back folding cable
- Seat back flat cable
- Folding lever
- Flat lever
- Sliding lever
- Jumping mechanism
- Sliding cable
(5) Operation of rear seat (Rear 1st and 2nd seat)

▶ Seat sliding

Front

Rear
(6) Seat back flat
- When to recline or to flat fully.

<table>
<thead>
<tr>
<th>Rear 1st</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Seat back flat 1st" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rear 2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Seat back flat 2nd" /></td>
</tr>
</tbody>
</table>

(7) Seat back folding
- Fold the rear 1st or 2nd raw seat back to put something on or to utilize it as a table.

<table>
<thead>
<tr>
<th>Rear 1st/2nd seat</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Seat back folding" /></td>
</tr>
</tbody>
</table>
(8) Rear 3rd seat

- Pull the lever behind back seat to fold the back seat.

- As the seat is folded, disconnect hook and spread out the board
3) To Activate Driver & Front Passenger Seat Warmer

▶ Operating condition

Turn the ignition key to the "ON" position and start the engine.
If the cranking signal is inputted, the seat warmer stops working during cranking.

▶ Operation description

When pressing the seat warmer switch for the driver and/or front passenger seat with IGN ON, the seat warmer operates. Press the switch again to stop the seat warmer.

▶ Operation procedures

When pressing the seat warmer switch for the driver and/or front passenger seat, the seat warmer relay in the ICM box is activated to supply power to the seat warmer.

![Diagram of seat warmer switch, ICM box, and seat](image)

**NOTE**

The driver and front passenger seat warmers have separate circuits, allowing them to function independently.
6. CHILD RESTRAINTS AND PREGNANT WOMAN

1) Pregnant Women

We recommend that pregnant women use the seat belts throughout their pregnancy. Keeping the mother safe is the best way to keep the baby safe.

\textbf{WARNING}

- Pregnant women should wear 3-point seat belt whenever possible according to the professional recommendations by her doctor.
- Pregnant women should wear the lap portion of the belt across the thighs and as snugly and low as possible.

2) Child Restraints

When transporting infants or small children, an appropriate child restraint system should always be used. The child restraint system should be appropriate for your child’s weight and height and properly fit the car’s seat. Accident statistics indicate that children are safer when properly restrained in the rear seat rather than in the front seat.

3) Securing Methods of Child Restraint System

Child restraint systems are designed to be secured in vehicle seats by seat belts or the latch system (ISOFIX seat - if equipped).

\textbf{WARNING}

- Infants and tiny children should always be restrained in an infant or child restraint.
- Never install a rear-facing child restraint in the front seat with front passenger air bag.
- A child in a rear-facing child restraint installed in the front seat can be seriously injured if the front passenger air bag inflates. Secure a rear-facing child restraint in the rear seat.
- A front-facing child restraint should be secured in the rear seat whenever possible. If installed in the front passenger seat, adjust the seat as far back as it will go.
- When installing a child restraint system, follow the instructions provided by the manufacturer.
- When your child restraint is not in use, secure it in the vehicle with the seat belt or remove it from the vehicle.
- In a collision an unrestrained child, even a tiny baby, can become a missile inside the vehicle. The force required to hold even an infant on your lap can become so great that you could not hold the child, no matter how strong you are.
- Do not allow a child in the cargo areas while the vehicle is moving.
- If the shoulder belt contacts the face or neck, move the child closer to the center of the vehicle. Never allow a child to put the shoulder belt under an arm or behind their back.
- Please note that the three point seat belt is designed for a person who is taller than 140 cm.
4) Infant and Child Safety

➤ Child seat

Children that are too small to use the seat belts must be properly secured in a child restraint system.

⚠️ WARNING

- Do not place a child restraint system in the front seat. The infant or child could be severely injured by an air bag inflation in case of an accident.
- Use only the qualified child restraint systems. Follow the manufacturer’s instructions for installation and use of the child restraint systems.
- Do not carry your child on your lap while driving. You cannot resist against the impact pressure in an accident. The child could be crushed between you and the parts of vehicle.
- Remember that a child restraint seat left in a concealed vehicle can cause it to be very hot. Check the seating surface before putting your child in the child restraint.
- When your child restraint is not in use, remove it from the vehicle or keep it secured with a seat belt to prevent it from being thrown forward in case of a sudden stop or an accident.
- When installing a child restraint, do not let the seat belts come across the child’s neck.
▶ Child restraint systems installation suitability for various seating positions

<table>
<thead>
<tr>
<th>Mass group</th>
<th>Restraint device figure</th>
<th>Front Passenger</th>
<th>Rear Centre</th>
<th>Rear Out Board</th>
<th>Mounting method of vehicle</th>
</tr>
</thead>
<tbody>
<tr>
<td>O ~ up to 10 kg (0 ~ 9 month)</td>
<td>Rear facing child seat</td>
<td>X</td>
<td>X</td>
<td>U</td>
<td>3-point belt rear-facing</td>
</tr>
<tr>
<td>O+ ~ up to 13 kg (0 ~ 2 year)</td>
<td>Rear facing child seat</td>
<td>X</td>
<td>X</td>
<td>U</td>
<td>3-point belt rear-facing</td>
</tr>
<tr>
<td>I ~ 9 to 18 kg (9 month ~ 4 year)</td>
<td>Forward facing child seat</td>
<td>X</td>
<td>X</td>
<td>U</td>
<td>3-point belt</td>
</tr>
<tr>
<td>II ~ 15 to 25 kg (4 year ~ 6 years)</td>
<td>Booster seat</td>
<td>X</td>
<td>X</td>
<td>U</td>
<td>3-point belt</td>
</tr>
<tr>
<td>III ~ 22 to 36 kg (6 year ~ 12 years)</td>
<td>Booster seat</td>
<td>X</td>
<td>X</td>
<td>U</td>
<td>3-point belt</td>
</tr>
</tbody>
</table>

U: Suitable for “universal” category restraints approved for use in the mass group.
UF: Suitable for forward-facing “universal” category restraints approved for use in the mass group.
L: Suitable for particular child restraints given on attached list. These restraints may be of the “semi-universal” categories.
B: Built-in restraint approved for this mass group.
X: Seat position not suitable for children in the mass group.
5) Securing by Seat Belt

▶ Rear-facing Child Seat

Secure the child restraint with a seat belt as shown in the figure.

⚠️ **WARNING**
A child in a rear-facing child restraint installed in the front seat can be seriously injured if the front passenger air bag inflates. Secure a rear-facing child restraint in the rear seat.

▶ Front-facing Child Seat

Secure the child restraint with a seat belt as shown in the figure.

⚠️ **CAUTION**
When installing a child restraint system, follow the instructions provided by the manufacturer.
6) Securing a Child Restrain System with “ISOFIX” System

▶ How to use the ISOFIX Lower Latch Anchor

- The ISOFIX lower latch anchors are located in the left and right outboard rear seating positions. Their locations (1) are shown in the illustration.
- Insert the child restraint attachments into the ISOFIX lower latch anchors until it clicks.
- Do not use the seat belt for installing the ISOFIX child restraint.

ISOFIX system is a standardised method of fitting child seats that eliminates the need to use the standard adult seatbelt to secure the seat in the vehicle. This enables a much more secure and positive location with the added benefit of easier and quicker installation.

⚠️ WARNING

- When using the “ISOFIX” lower latch system, all unused vehicle rear seat belt metal latch plates or tabs must be latched securely in their seat belt buckles and the seat belt webbing must be retracted behind the child restraint to prevent the child from reaching and taking hold of unretracted seat belts. Unlatched metal latch plates or tabs may allow the child to reach the unretracted seat belts which may result in strangulation and a serious injury or death to the child in the child restraint.
- Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts or harnesses or for attaching other items or equipment to the vehicle.
How to use the Top Tether

- The top tether anchors for securing the child seat are located on the back side of second row seat.
- Remove the headrest from the second row seat.
- Place the child restraint on the second row seat.
- Connect the tether connector in child restraint to the rear anchor. Securely tighten the child restraint by adjusting the webbing of the tether connector.

**CAUTION**

- The rear anchor is the supplemental device to secure the child restraint system after engaging it by the lower latches. Therefore, do not secure the child restraint system only with the seatback anchors. The increased load may cause the hooks or anchors to break, causing serious injury or death.
- If a child restraint is not properly secured to the vehicle and a child is not properly restrained in the child restraint, the child could be seriously injured or killed in a collision. Always follow the instructions provided by the manufacturer for installation.
- Make sure the latches of the child restraint system are latched to the lower latches. In this case, you can hear the “click” sound.
- Incorrectly installed child restraint system may cause an unexpected personal injury.
- Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints.
- The tether strap may not work properly if attached somewhere other than the correct rear anchor.
- Rock the child restraint to check if it is securely installed. Refer to instructions provided by the manufacturer of the child restraint.
- Do not install the child restraint if it hinders the operations of front seat.
### ISOFIX Child Restraint Systems Installation Suitability for Various ISOFIX Positions

<table>
<thead>
<tr>
<th>Mass group</th>
<th>Size Class</th>
<th>Fixture</th>
<th>Vehicle ISOFIX Positions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Front Passager</td>
</tr>
<tr>
<td>CARRYCOT</td>
<td>F</td>
<td>ISO/L1</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>G</td>
<td>ISO/L2</td>
<td>X</td>
</tr>
<tr>
<td>GROUP 0</td>
<td>E</td>
<td>ISO/R1</td>
<td>X</td>
</tr>
<tr>
<td>GROUP 0+</td>
<td>E</td>
<td>ISO/R1</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>D</td>
<td>ISO/R2</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>ISO/R3</td>
<td>X</td>
</tr>
<tr>
<td>GROUP I</td>
<td>D</td>
<td>ISO/R2</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>ISO/R3</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>ISO/F2</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>B1</td>
<td>ISO/F2X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>A</td>
<td>ISO/F3</td>
<td>X</td>
</tr>
</tbody>
</table>

**IUF:** Suitable for ISOFIX forward child restraints systems of universal category approved for use in this mass group.

**IL:** Suitable for particular ISOFIX child restraint systems (CRS) given in attached list. These ISOFIX CRS are those of the “specific vehicle”, “restricted” or “semi–universal” categories.

**X:** ISOFIX position not suitable ISOFIX child restraint systems in this mass group and/or this size class.
7) Warning For Child Restraint

- Use only the officially approved child restraint. Ssangyong is not responsible for the personal injury and property damage due to the defect of child restraint.
- Use only the child restraint with proper type and size for your baby.
- Use only the child restraint at proper location.
- Child restraint has 5 categories based on the weight as below:
  GROUP 0: 0 ~ 10KG
  GROUP 0+: 0 ~ 13KG
  GROUP I: 9 ~ 18KG
  GROUP II: 15 ~ 25KG
  GROUP III: 22 ~ 36KG
- Group 0 & 0+
  Rear facing child restraint fitted on the rear seat
- Group I
  Forward facing child restraint fitted on the rear seat
- Group II & III
  Booster seat fitted on the rear seat with seat belt fastened
  Always follow the installation and use instructions provided by the manufacturer of the booster seat.
7. CIRCUIT DIAGRAM

▶ Driver power seat
FRT seat warmer