

SONET

Product Guide

Global Product Planning Team 1



Introduction

SONET

Kia's next-generation subcompact SUV

Introducing the SONENT, the Kia's new subcompact SUV. As Kia's most sub compact SUV till date, SONENT is aimed at trendy, urban adventurers with a taste for savvy, captivative design that stands out from the competitors. Conveying a fun and functional design inside and out, SONENT is a true urban SUV with loads of versatility in a modern subcompact package. With standardized safety, IT features and also features specific to a SUV customer, SONENT provides a remarkable customer experience.



Vehicle naming

SONET name is derived from "SOCIAL NETWORK" and stands for "STYLISH AND CONNECTED"

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From Large-sized to Sub-compact, Kia has completed the Full-Line-up of SUVs with the release of SONET.

Large



MOHAVE

Mid-size



SORENTO

Compact



SPORTAGE

Sub compact



SELTOS

Next-generation global strategic subcompact SUV

SONET



Major competitors



Hyundai Venue

4,040 x 1,770 x 1,565 / 2,500



Ford Ecosport

4,017 x 1,765 x 1,650 / 2,519



RENAULT



Renault Captur

4,230 x 1,800 x 1,593 / 2,630

Dimension (mm)
OAL x OAW x OAH / WB

Target Customer



Trendy, open minded young people

- Rookies in society in their 20s and 30s
- Pursuit of differentiated and stylish design



Family centereded young family

- Prefers reasonable price
- Values roomy interior space of SUVs

DESIGN / PACKAGE



Visualizing the bold, yet sophisticated image with its 'Heart beat' LED lighting graphics



'Heart beat' LED lighted DRL



'Heart beat' LED lighted rear lamp



The versatile, foldable rear seats offers 392ℓ of cargo space which gives class leading space for the customers.

TECHNOLOGY



BOSE premium sound system that provides the impression of rich original sound and sound-linked mood lamp that delivers emotional pleasure.



Traction modes

Drive modes

Drive mode and traction mode selection system for optimum grip and handling performance



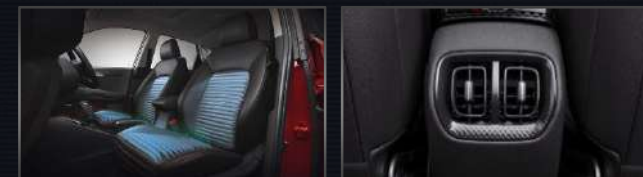
Smart Phone Connectivity (I3 Region Unavailable)
-Android Auto & Car Play



Wireless charger /
Smart Key remote engine start (A/T only)
(I4 Region unavailable)

CONVENIENCE

Various amenities that goes beyond its class



Ventilated front seats /
Rear air vents (Standard)



4.2-inch color instrument cluster



High line
TPMS



Front & Rear
USB charging port
(Standard)



Dual
Seatback pocket

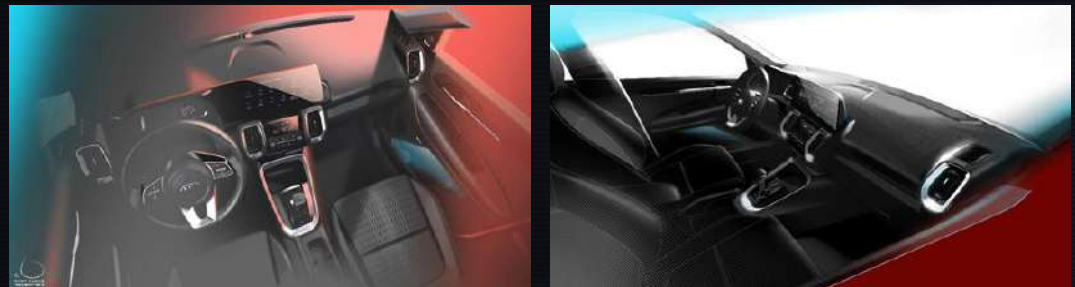
● Exterior design concept

“ SUV DESIGNED FOR YOUNG AT HEART ”



● Interior design concept

“ INSPIRED BY THE HI-TECH AND INTUITIVE ”



EXTERIOR DESIGN



SONET

Robust and sophisticated road presence

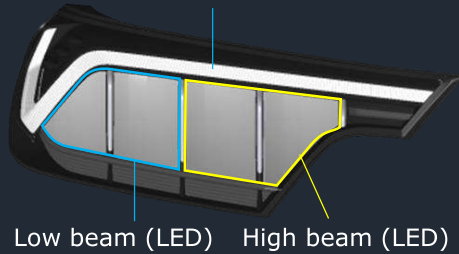


Bold, yet sophisticated image with its iconic 'Heart beat LED lighting graphics

Headlamp composition

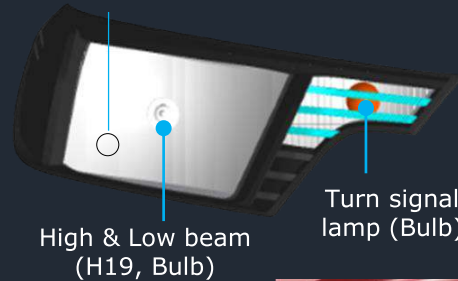
LED Head lamp (Optional)

Turn signal + DRL + Position lamp (LED)



Bulb Head lamp (Standard)

Position lamp (Bulb)



Fog lamp

*FOG LAMP can only be applied with
Silver paint skid plate (ETKA11) +
Chrome radiator grill (ETAA24)



LED DRL & LED Positioning Lamp



LED Front T/Sig Lamp



Front bumper

Three-dimensional front bumper design exudes robust front image



Head lamp

Iconic 'Heartbeat' direct light promotes sophisticated and striking image



Radiator grille

Black mesh pattern in a Kia's unique tiger nose grille provides sportier image

Visualization of rugged yet sporty profile



Rugged and sporty side profile with a slanted belt line and wedge-shaped C-pillar

Wheels & Tires

Sporty, proportional and geometrical spoke design visualizes a unique sensibility

15-inch



Wheel cap
is not
applied

Steel wheel with wheel cover
(195/65R15)
[EWAA 6C]

16-inch



Wheel cap



Styled steel wheel with wheel cover
(215/60R16)
[EWAA AK]

16-inch



Wheel cap



Silver paint

Diamond cutting alloy wheel
(215/60R16)
[EWAA M2]



Chrome outside door handle

Chrome outside door handle provides excellent grip and sophisticated image.



Roll bar style roof

The sporty image is reinforced with a roll-bar style roof design in harmony with the two-toned body color.



Beltline chrome molding

Belt line chrome molding applied to maximize the sense of luxury on the side of the vehicle

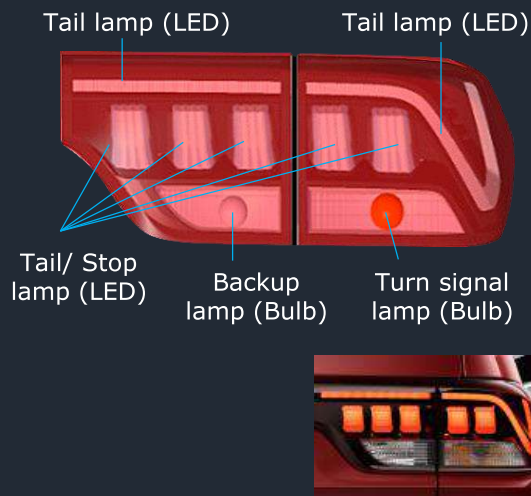
Stable and Distinctive



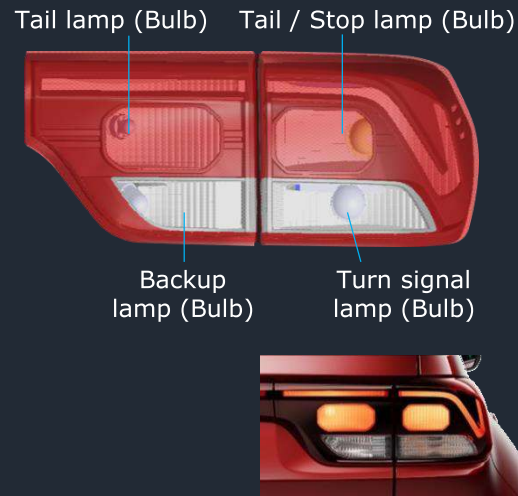
Pursuit of modern and pure surface treatment incorporated with iconic tail lamp design

Rear lamp composition

Rear combination lamp (Optional)



Rear combination lamp (Standard)



Rear Center garnish



Rear Bumper

Stable & sporty rear bumper features unique inside elements making it more stylish.



Rear combination lamp

Iconic Heartbeat tail light graphics emphasize design continuity with headlamps



Rear center garnish

Center garnish connects the both rear lamps visually for a wider sense of stability

INTERIOR DESIGN



SONET

DIGNIFIED | DYNAMIC | ENGAGING

The new cockpit paradigm with seamless panel which integrates 8-inch display audio with 4.2 Colour LCD Cluster



Core features of interior design

- ❶ 'T' shaped crashpad design reminiscent of bold and powerful images
- ❷ Sporty and 3-dimensional gauge cluster design
- ❸ Unique and high-tech image of vertical airvent
- ❹ Unique and sporty image of door garnish



Sensible design and space scheme with the handcrafted elements to enhance the interior appeal



Steering wheel



Colour accented air vents



Leatherette door trim



Premium Piano black finish

Effortless and untiring usage experience



Driver seat height adjust



Rear seat armrest
with cup holders



Seat back Dual pocket
s

LED Sound Mood Lights



Provides emotional pleasure by applying user customizable mood light that lights up in conjunction with sound

Lighting location : upper part inside door pocket

Digital Cluster



Higher Variants : **4.2 Color instrument cluster**

Sporty, segment-type gauge cluster provides core information through its 4.2-inch color LCD display [VDAA 35]



Lower Variants : **3.5 mono color instrument cluster**

Standard cluster features 3.5-inch mono LCD display [VDAA 04]

Drive assist information

Provides a variety of important vehicle-related information that enhances safety and convenience through the built-in TFT-LCD display



High line TPMS



Multi Drive mode



Traction mode

Unit : mm / 16-inch tire based, *with roof rack

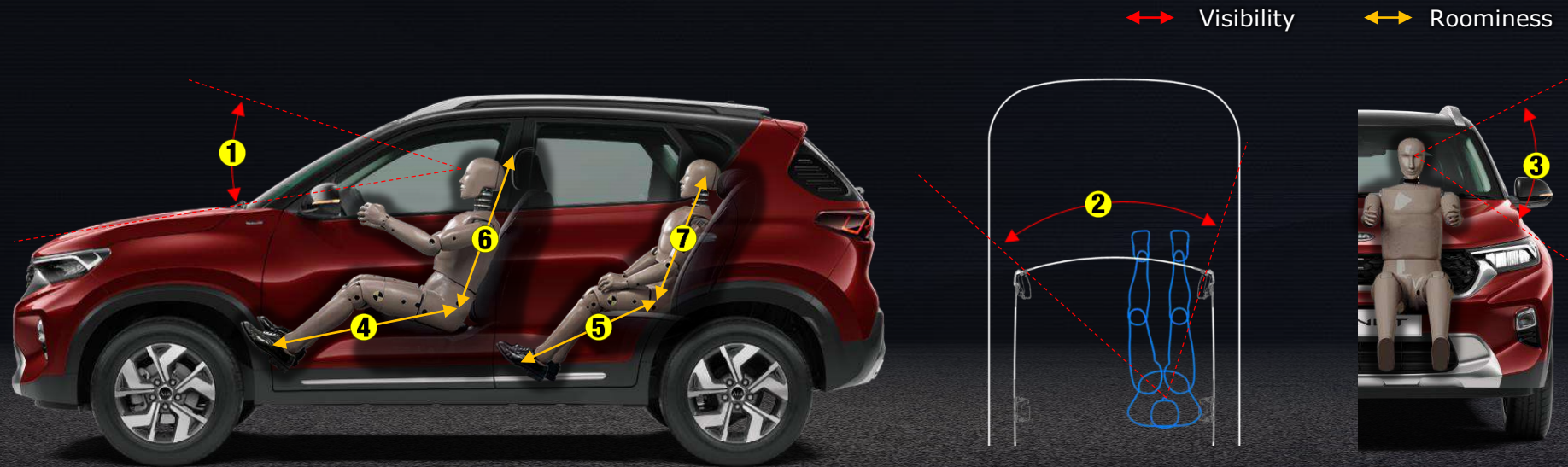


Exterior Dimension comparison

Unit : mm / *with roof rack

			SONET		VENUE
				Diff.	
Overall Length	⊖		4,120	+80	4,040
Overall Width	⊖		1,790	+20	1,770
Overall Height	⊗		1,610 / *1,627 (15") 1,625 / *1,642 (16")		1,565 / *1,590
Wheelbase	④		2,500	-2	2,520
Overhang	Front	⑤	833	+43	790
	Rear	⑥	787	+57	730
Wheel Tread	Front	⑦	1,576 (15") 1,558 (16")		1,555
	Rear		1,589 (15") 1,571 (16")		1,565

Sonet ensures the best level of direct visibility and interior roominess which are important elements in subcompact SUV



Direct visibility

Unit : deg.

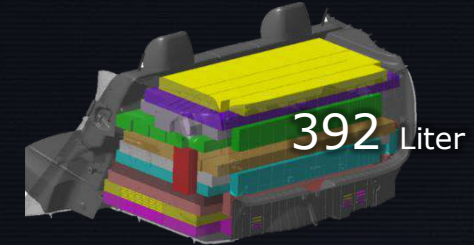
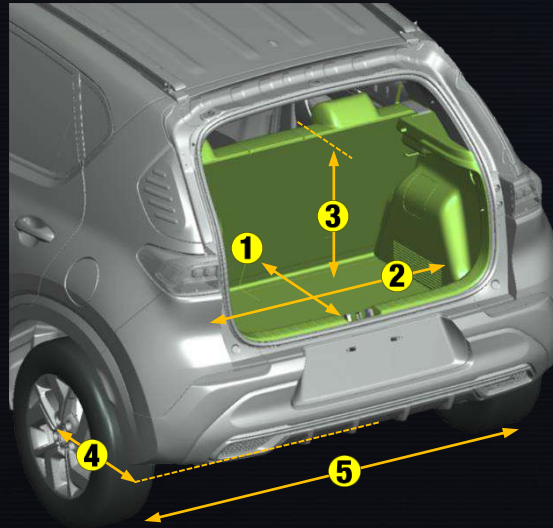
	SONET
① Forward	30.2
② Horizontal	82.2
③ Side	59.7

Interior space

Unit : mm

		SONET	VENUE
Legroom	④ Front	1,040	1,050
	⑤ Rear	910	870
Headroom	⑥ Front	1,005	1,000
	⑦ Rear	985	980

Offering the best level of luggage space in its class through optimization of trim design & platform



385 Liter



7 Liter

Direct visibility

			SONET		
				Diff.	VENUE
Luggage	Length	①	735	+15	720
	Width	②	1,080	+8	1,072
	Height	③	630	+30	600
Rear Overhang		④	720	-10	730
Rear Wheel Tread (Overall Width)		⑤	1,589 (1,790)	+24 (+20)	1,565 (1,770)
Luggage Capacity (VDA,l)			392	+37	355

Multiple Storage options



Front console armrest storage



Front console cup & Mobile holders



Umbrella holders with drain hole



Glove box (7.7L)



Bottle holders (1L) & map pockets

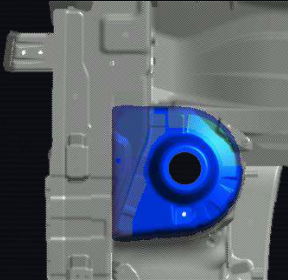
PERFORMANCE



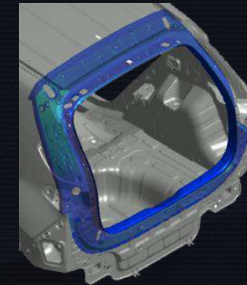
SONET

Rigidity of the vehicle body optimized with the improved connection structures

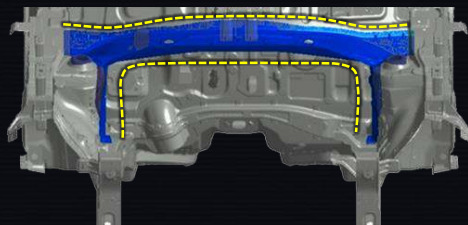
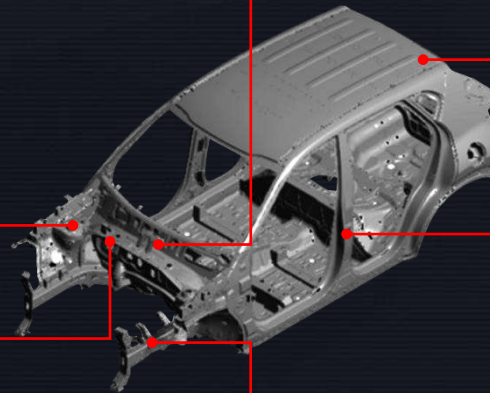
Strut mounting structure in close contact with the entire surface



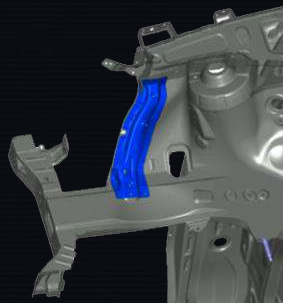
Integrated design of Dash and Cowl upper



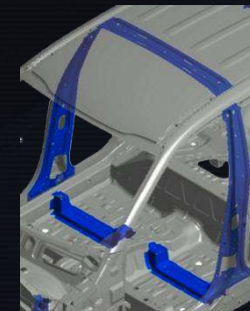
The opening of the tailgate Is composed of Annular structure



Ring structure at Cowl and Fender Apron connection

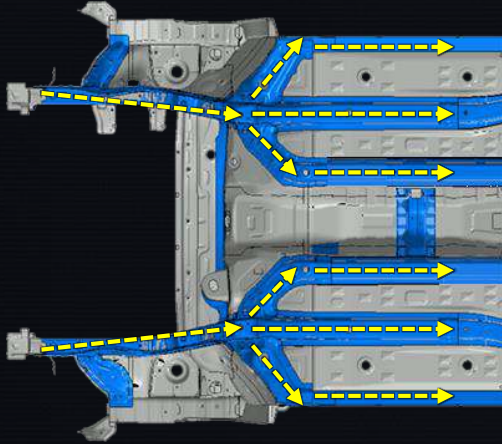


Front side member and apron member are connected with reinforcement

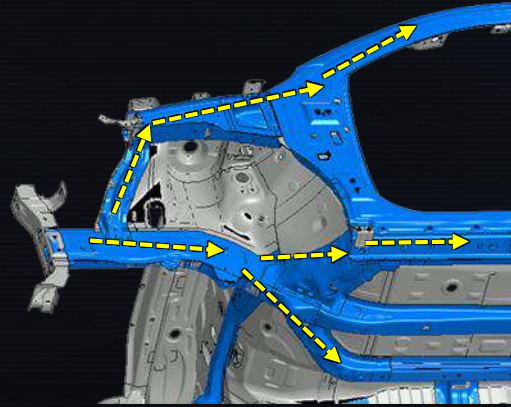


Ring-shaped structure of B-pillar

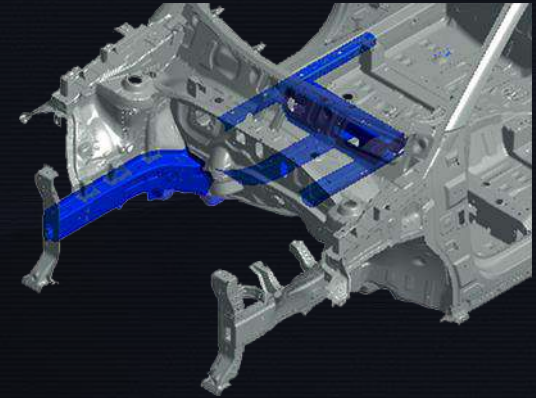
- Crash performance enhanced through a design that disperses collision energy



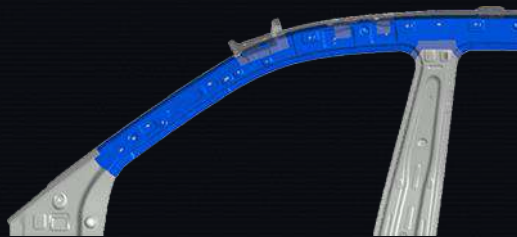
Collision energy absorption and dispersion design of underbody



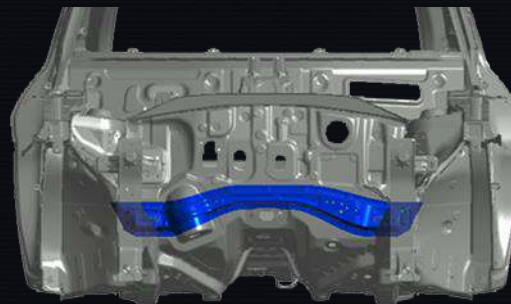
Collision energy transfer design of upper/under body



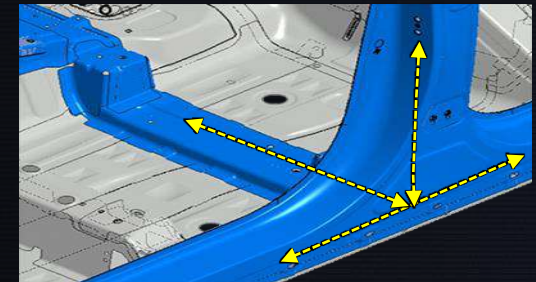
Reinforcement is added for crash performance improvement



Ensure the continuity of A-pillar sections



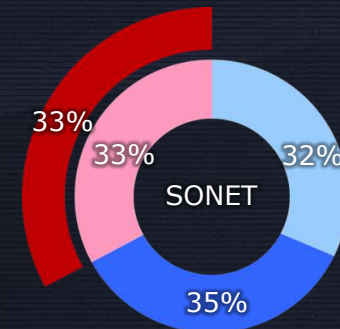
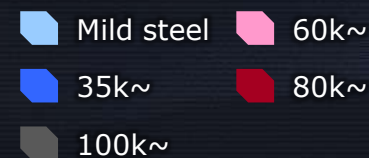
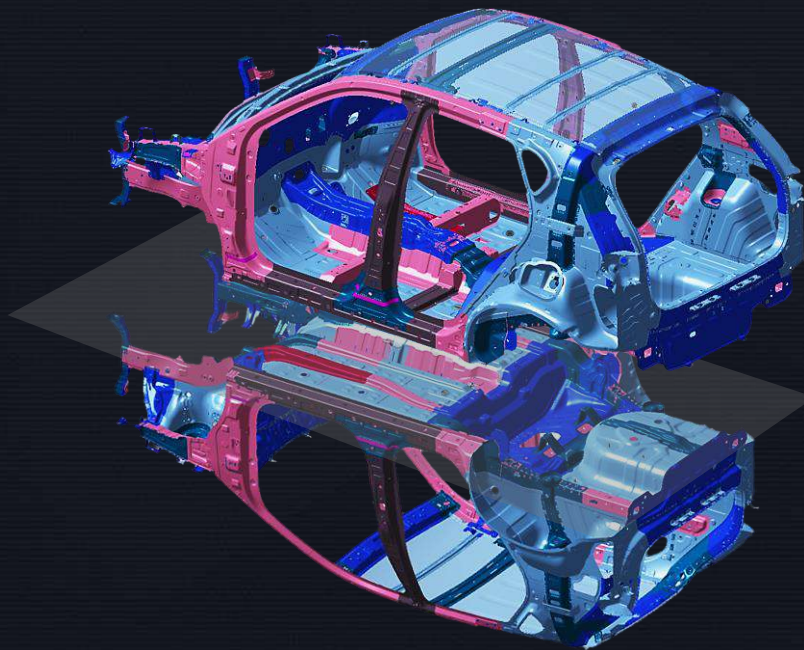
Application of anti-collision member Dash front side



Member structure considering a collision load path in case of side collision

High strength steel

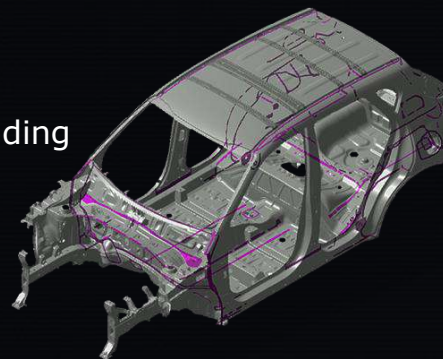
- ✓ Strengthening the vehicle structure with 4★GNCAP crash performance by using Advanced High Strength Steel
- ✓ Above 60k grade of High-strength steel plates are applied to the major parts of main body.



Mean strength (kgf/mm²) : 46.3

Structural adhesive

- ✓ Body stiffness is further improved by expanding application of structural adhesive
- ✓ Total 54m of MIP / VDR (A-type) structural adhesive is used

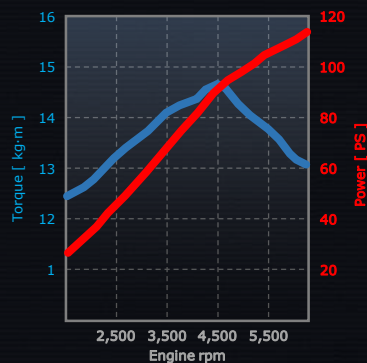


Application effect of structural adhesive

- Increase of coupling rigidity between parts
- Increase rigidity of Entire body
- Improved Stiffness and durability

Engine

► G4FIII 1.5 MPI



Maximum Power **115** ps/6,300rpm



Maximum Torque **14.7** kgf·m/4,500rpm

Core feature

- Dual Port fuel Injection
- Integrated Thermal Management System
- 2-Stage Variable Pressure Oil Pump
- Mid-Lock Position Intake CVVT
- Combustion Chamber S/V Ratio reduction

Engine specification

		G4FIII 1.5 MPI
General	Displacement(cc)	1,497
	BORE × STROKE(mm)	75.6 × 83.4
	Compression Ratio	10.5
	Max. Power(ps/rpm)	115/6,300
	Max. Torque(kg·m/rpm)	14.7/4,500
Cylinder Block/Head		AL/AL
CAM TYPE		DOHC D-CVVT
Valve System		16 VALVE SWING ARM HLA
Ignition System		Distributorless (PLUG TOP COIL TYPE)
Intake System		VIS
Fuel System		DPFI
Emission System		EU2/3/4 : WCC Only EU5/6/6c : WCC+UCC
Elec. System	Alternator	13.5V, 110A
	Starter	12V, 0.9kW
Engine Oil Capacity (ℓ, With Oil Filter)		3.8

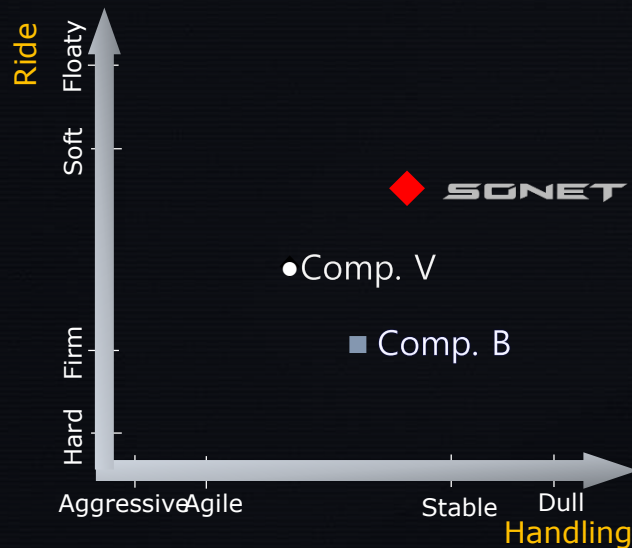
Transmission specification

		MT	IVT
		M6CF1	C0GF1
		G4FIII 1.5 MPI	
DRIVE TYPE		FF	FF
DRIVE SYSTEM		6 SPEED MT	CVT
GEAR RATIO	1 Speed	3.833	2.68 ~ 0.385
	2 Speed	2.143	
	3 Speed	1.370	
	4 Speed	0.971	
	5 Speed	0.794	
	6 Speed	0.667	
	7 Speed	-	
	REV	3.700	2.822 ~ 1.822
FINAL GEAR RATIO		4.563 (15 in) 4.882 (16 in)	6.052 (15 in) 6.483 (16 in)
CLUTCH TYPE		Dry Single Clutch	Torque Converter
Transmission oil (ℓ)		1.5~1.6	6.7

Type	6-Speed M/T	IVT
Model	  M6CF1	  C0GF
Mated engine	G4FIII 1.5 MPI	G4FIII 1.5 MPI
Major features	<ul style="list-style-type: none"> 2 Shafts & 6-Speed M/T Improved Shift Quality <ul style="list-style-type: none"> - Triple Cone Synchro applied to 1,2 Speed - Control Shaft Detent mechanism Optimization - Reverse Synchronizer Assist Mechanism - TGS Lever Stopper Gear Noise Reduction <ul style="list-style-type: none"> - 2 Speed, 3/4 Speed(driven) & Final Gear Teeth Hydraulic Clutch Control Permanent Low Viscosity Oil (TGO-9) 	<ul style="list-style-type: none"> Fuel economy + 4.2% (vs 6AT GENII) <ul style="list-style-type: none"> - Wide Ratio Chain-Pulley System (C0GF1 : 7.0, Competitor CVT : 6.3) - High Efficiency Chain Belt - Noise/Efficiency Improvement Vane Pump - Oil Guide for Reduction Churning Loss AT-like Shift control scheme

"Stable and Comfortable Driving Performance results in a true Urban Driving experience"

Ride & Handling Characteristics



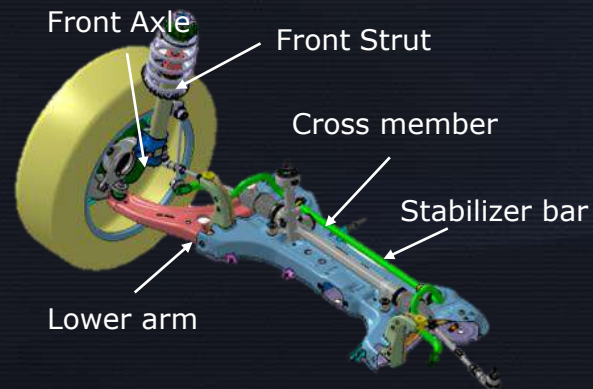
Ride
comfort

- Achieving a perfect balance between 'Solid' and 'Flexible' ride comfort characteristics

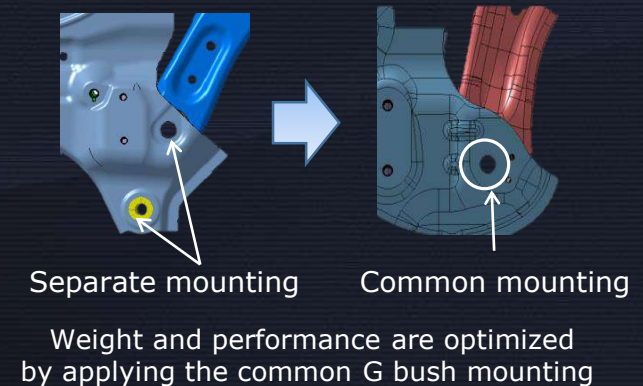
Handling
&
Steering

- Developed to deliver a 'Linear' and 'Gentle' response while keeping the body roll in check

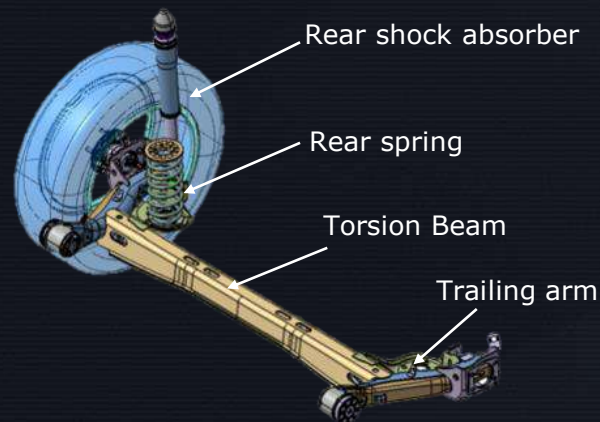
Front Suspension (McPherson Strut)



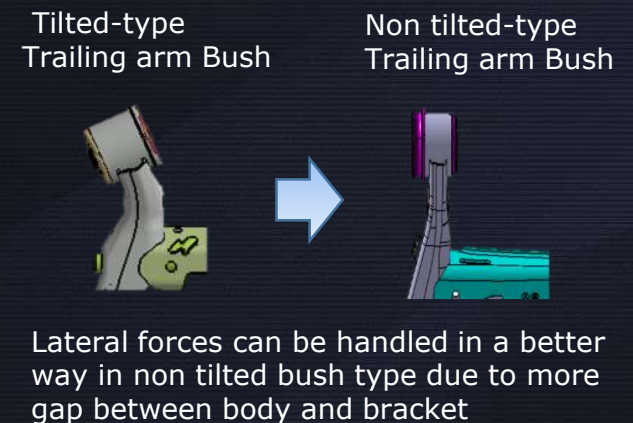
Design Enhancements



Rear Suspension (Coupled Torsion Beam Axle)

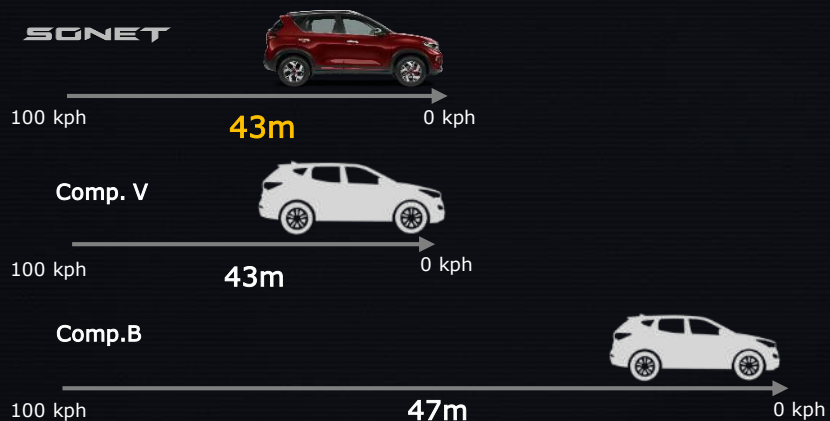


Design Enhancements



Development considering Indian conditions with improvement in Brake juddering and Brake distance reduction

Braking Distance



Spec Comparison

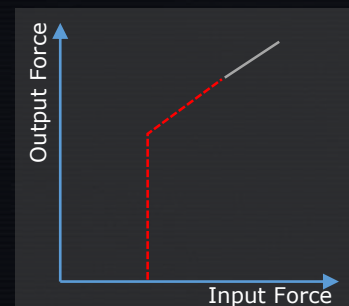
Parameters		SONET	Comp.V
Brake System	FRT CALIPER/ DISC	Φ57 / Φ280	Φ57 / Φ280
	REAR DRUM	Φ203.2	Φ203.2
	BOOSTER SIZE	10.5"	10"
	BRAKE FEELING	7+	7+
Performance	Braking Distance (100 → 0)	43m	43m

Key improvements

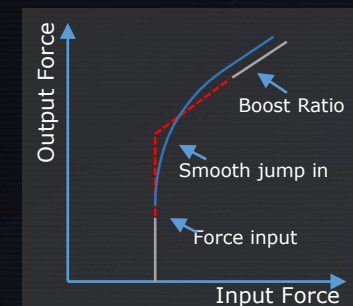
- Increasing linearity when braking
 - Securing Robust brake feel
- Minimize brake drag and stability pad slipping
 - Applied integral pad return spring



Smooth and Stable Brake feeling



Normal



Kia Sonet

Change the Threshold Load and apply Smooth Jumping Force



Vehicle Stability Management (VSM)

Working in concert with the Motor Driven Power Steering, VSM helps ensure that the vehicle remains stable when simultaneously braking and cornering.



Electronic Stability Control (ESC)

The system is designed to stabilize the vehicle during cornering maneuvers. ESC applies the brakes at individual wheels and intervenes with engine management system to stabilize the vehicle.



Front and Rear parking sensor

The system uses ultrasonic sensors mounted on the front and rear bumpers to warn of any obstacles when maneuvering into tight spaces for safe and confident parking.



Anti-lock Brake System (ABS)

ABS incorporates an electronic brake force Distribution (EBD) and ESC to evenly distribute braking force for improved stability and stopping power.



Brake Assist System (BAS)

BAS recognises emergency braking pedal operation and automatically enhances braking force when needed during sudden braking situations improves vehicle and occupant safety.



Hill-start Assist Control (HAC)

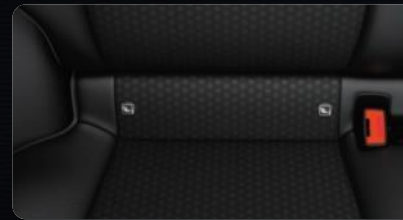
When drivers are on a steep upward incline, pulling away from a standing start can be a worrying experience. HAC stops vehicle from rolling backwards.

Six Airbags



Sonet is equipped with a total of six airbags including front side airbags and curtain airbags to secure occupant's safety during severe collision

- Both side airbags protect chest and thorax of occupants



ISO-Fix child anchor

ISO Fix points for securing child car seats quickly and safely to keep infants safe and secure

Emergency stop signal (ESS)

ESS is an active safety system which alerts the driver behind in case hard braking is done.



Your vehicle:
Brake lights and HMSL blink rapidly



Your vehicle:
Brake lights flash rapidly to warn vehicles behind



Following vehicle:
Due to the warning, the following vehicle takes appropriate action



GRIP CONTROL (3 Different types → Automatics only)



Mud mode

Better grip on muddy roads & normal tracks



Snow mode

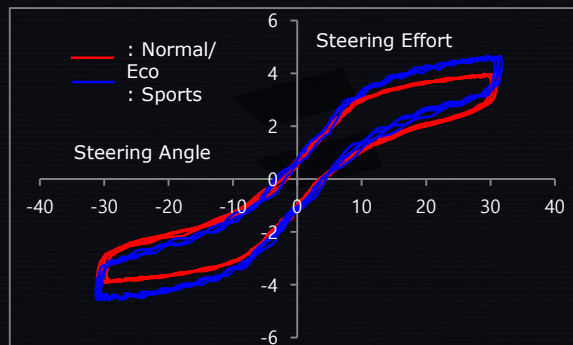
For an improved grip on slippery surfaces



Sand mode

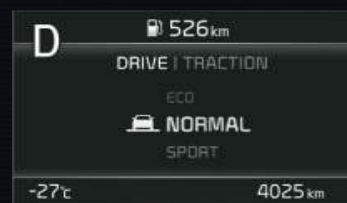
To improve the car grip on sandy roads

Steering / Handling Improvement



Steering Map change as per drive mode

DRIVE MODES (3 Different types → Automatics only)



Normal mode

Optimized mode to offer the best of Power and Fuel efficiency



Eco mode

The mode suited to a traffic scenario saving valuable money in traffic



Sport mode

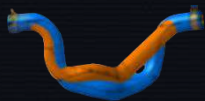
For that younger spirit to take the vehicle to its limits

The extensive usage of high quality sound absorbing materials and sound eliminating engineered parts makes the cabin quite which offers a relaxing and soothing experience to the customers



Counter-measurement of acceleration-Noise

- Improved transmission noise with hose, dash Iso-pad and sound absorption material optimization
- Acceleration booming noise reduction with powertrain mountings



Application of
Soft material

Hose
Optimization



Thickness increased
: 2.5→3.0t

Sound absorption
material optimization



Integrated
-type



Non-integrated
-type

Engine Mount

Counter-measurement of Road/Wind-Noise

- Underbody noise improvement using block foam
- FLR anti-pad optimization to reduce panel vibration
- Optimized tire patterns to reduce road-noise



Foam block optimization
Of BIW



Floor anti-pad
optimization



Tire Pattern
Optimization

Aerodynamic friendly design improves fuel efficiency and high-speed driving stability



Aerodynamic Performance Comparison

Contents	SONET	QXi
Aerodynamic Drag Coefficient (C_D)	0.35	0.36

※ In-house test results (Lower results conveys better scores)

Upper Body Aerodynamic Design

- FRT Wheel Air-curtain / RR Roof angle optimization



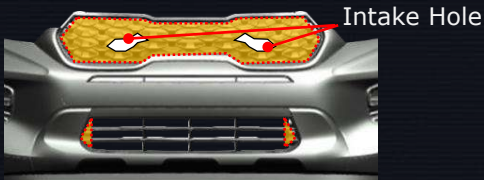
FRT Wheel Air-curtain



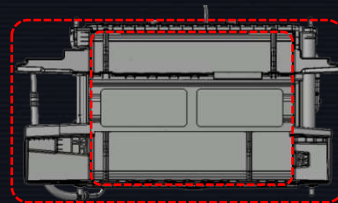
RR Roof angle optimization

Cooling drag Improvement

- Cooling Area and Air-guide Optimization



Cooling Area Optimization



Duct type Air-guide

Under Body Air-flow Improvement

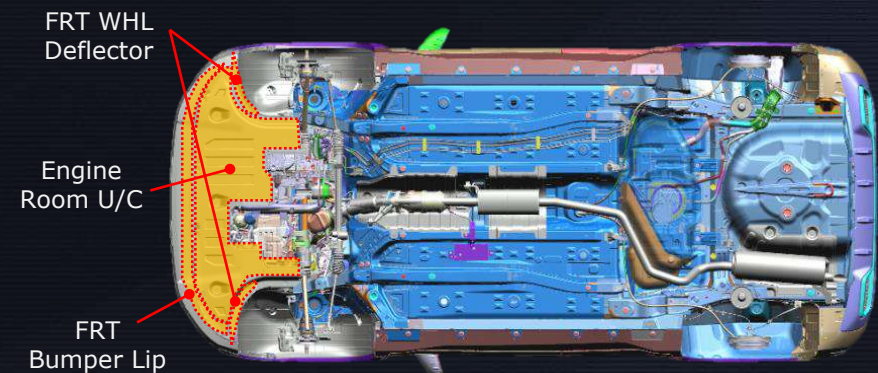
- Under Body Aerodynamic Items



Bumper Lip Length Increase



FRT WHL Deflector Optimization



Front Ventilated seats



Provides a pleasant driving experience by applying ventilated seats to the driver's seat and front passenger seat

※ The Ventilation can be adjusted in 3-steps as desired for effective ventilation

Advantages

- Keeps air circulation to keep occupant's body sweat free
- Makes the seat cool faster in hot summers



Auto AC

FATC offers a convenient way to control temperature without distracting the driver.



Rear AC

vents

Rear AC vents provides cooling to the rear passengers thus improving comfort on rear seat

Charging convenience



Wireless charger with cooling function



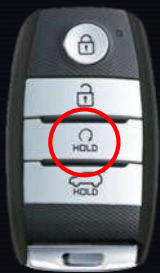
The 10W Wireless charger not only conveniently charges your phone but also keeps it cool

Front and Rear USB charging



The standard front and rear USB charging option gives easy charging access to both front and rear passengers

Smart Key remote engine start (A/T only)



Remote
Start
Button



※ I4 Region unavailable

- Users can start the car remotely via the key
- Applicable for A/T models only
- AC will be switched on before boarding the car thus adding to the convenience

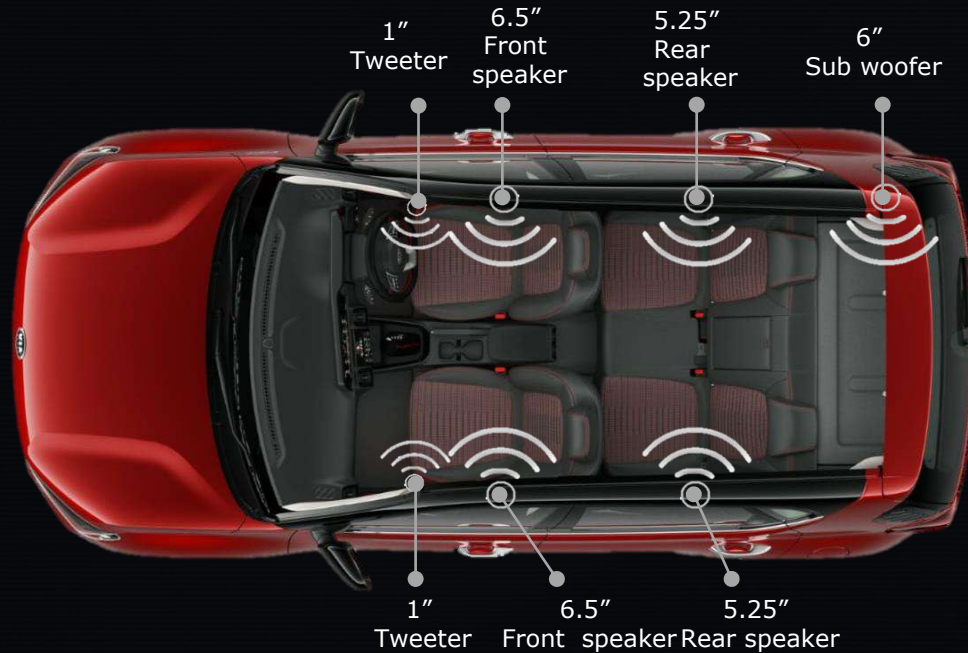
Operable Conditions

- Car in Parking mode (AT/DCT)
- Key should be within 10 meters of range
- Press lock button before pressing hold

CONVENIENCE



SONET

**BOSE**

7 speaker premium system

Super 65 → The loudest 6.5" driver in Bose range

Digital amplifier with 8 channels of customer equalization and digital processing system will offer concert-hall like experiences

Dynamic speed compensation



The system monitors vehicle speed and automatically adjusts aspects of the music to ensure a consistent listening experience for passengers

Super65

The combination of Super65 (loudest 6.5" driver in Bose range) wide range speaker in the front of vehicle and the Nd woofer in the rear allows balanced bass throughout the cabin



The Bose proprietary Nd woofer uses Neodymium iron boron magnet, to produce cabin-filling low frequencies.

8-inch Touch-screen color LCD Display audio

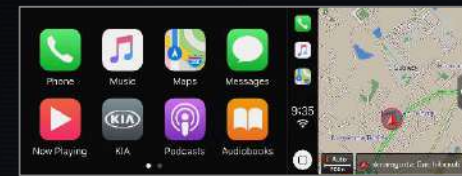
- 8-inch Touch-screen operable TFT-LCD
- FM/AM/DRM/USB/Bluetooth
- Rear View Camera Display
- Smart Phone Connectivity
 - Android Auto & Car Play



Smart Phone Connectivity

※ I3 Region + MOROCCO unavailable

Provides wireless phone projection function through Android Auto and Apple Carplay Application



3.8-inch 2-DIN Mono Audio

- Provided essential functions for customer preference
 - FM/AM/USB/Bluetooth
- High Performance & Quality
 - Enhanced CPU Speed : 400 MHZ
 - LCD : 3.8" Mono TFT Display



Loaded with smart features and amenities

Sunroof



One touch operated sunroof offers operational convenience

Anti glare mirror (ECM)



Anti glare mirror automatically reduces the glare for unhindered vision

High line TPMS



TPMS shows Tire pressure to avoid any unplanned stops

Smart Key Push Button start



Push button start allows the customer to start the vehicle at the press of a button

Tilt steering wheel



Tilt steering allows the driver to conveniently set steering wheel position

Driver Safety power windows



Safety anti pinch power windows prevents injuries

Loaded with smart features and amenities

Steering Mounted controls



Steering mounted controls aids to the driving convenience and reduces distraction

Auto Light control



Turns headlights and taillights on/off automatically using a sensor

Rear wiper and washer



Rear Wiper and washer help to keep rear glass clean

Cruise control



Cruise control helps driver select speed and drive conveniently

Electric foldable outside mirrors



folding and unfolding of outside mirror can be at the touch of a button

Sunglasses case



Conveniently keep your sunglass

APPENDIX



SONET

Exterior Colors

Total 14 types of colors (8-types of pure body color + 6-types of roof-two-toned color)

Monotone – 8 colours



Clear White (UD)



Steel Silver (KLG)



Gravity Gray (KDG)



Aurora Black Pearl (ABP)



Intense Red (A6R)



Intelligency Blue



Beige Gold (QYG)



Glacier White Pearl (GWP)

Dual tone – 6 colours

Aurora Black Pearl
roof



Steel Silver (GB1)



Glacier White Pearl (GB2)



Intense Red (GB3)



Beige Gold (GC1)

Clear White
roof



Gravity Gray (GB4)



Intelligency Blue (GB6)

Interior Colors



Black interior theme



Black and Beige interior theme



Black interior theme

Seat colours



Black (WK)
(Semi Cloth seat)



Beige (GYT)
(Semi Cloth seat)



Beige (GYT)
(Artificial Leather seat)



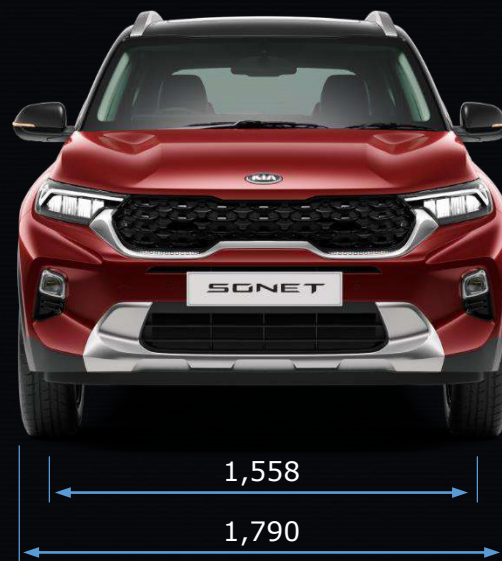
Black (WK)
(Artificial Leather seat)

Interior finish

If you want to choose red stitch, CHOOSE SACA01,
If you do not select saca01 for variation 4 you will get silver color.
You must select SACA01 when you choose variation 3

		VARIATION 1		VARIATION 2		VARIATION 3 [MUST +SACA01]		VARIATION 4	
Seat	Material	Cloth 1		Cloth 2		Artificial Leather [SAAA 11]		Artificial Leather [SAAA 11]	
	Pattern		Y SHAPE		V SHAPE TUBLER		CENTRE CARVED TUBLER		V SHAPE TUBLER
	Color	Black (WK) / QSA		Beige (GYT) / QSB		Black (WK) / QSH		Beige (GYT) / Silver, QSI(RED)	
	Stitch	No		No		Yes (Red)		Yes (Silver/RED)	
Door	Armrest	Matt Black		Matt Black		Leather Wrapping + red Stitch		Leather Wrapping + Silver/Red Stitch	
Console	Armrest	PVC (WK)		PVC (WK)		PVC (WK)		PVC (WK)	
	Console Upper cover	Metal Paint		Metal Paint		Black High glossy (FHV)		Black High glossy (FHV)	
Steering Wheel	Material/type	PU [TTBA06]		PU [TTBA06]		Leather(D-CUT) + Red stitch [TTBA09+SACA01]		Leather(D-CUT) + Silver/Red stitch [TTBA09+Silver/SACA01]	
	Emblem	No		No		Car name (Sonet)		Car name (Sonet)	
Gear knob	Material/type	PVC [TTBB 01 or 50]		PVC [TTBB 01 or 50]		Leather + Red stitch [TTBB 05 or 58] + SACA01		Leather + Silver/red [TTBB 05 or 58] + Silver/SACA01	
Headlining		Fabric (Printed)							
Airvent bezel + Crashpad color + Arm rest stitch		TTAA12 METAL GRAIN	TTAA08 BLACK HI GLOSSY	TTAA12 METAL GRAIN	TTAA08 BLACK HI GLOSSY	TTAA08 BLACK HI GLOSSY + SACA01 RED DOOR STITCH		TTAA12 (METAL) + SILVER STITCH	TTAA08 (BLACK) + SACA01 RED STITCH
									

Unit : mm / 16-inch tire based, *with roof rack





- End of File -