

Built for big families with even bigger dreams.

Some of us want to get out there and explore, others want to look but never get out of the car. Some of us, the smaller ones, even want to discover lost treasure. A big family does not have one dream, they have many. Whatever your family's dreams are, however many they are, the all-new Kia Carnival is big enough for them all.



A companion for picturesque moments.

Travelling with the whole family, and maybe a few friends too, is one of those life events that makes for lasting memories. The Carnival is hard to beat when it comes to intimate adventures, offering comfortable seating, plenty of space, lots of light, and the connectivity to keep you in touch with the rest of the world. Luxurious, practical and enhanced with the latest technology, the Carnival makes sure every family member is taken care of.

State Bard Martine Bara

Carniv







Game-changing design.

Who said people movers can't be beautiful? From the Carnival's futuristic headlamps embedded into the tiger-nose grille, to the broad, dramatic stripe of the rear tail lamps, fresh details establish a luxurious new design vernacular among people movers. Sleek body lines serve an aerodynamic purpose, while the expansive windows and dual sunroof complement the cabin's feeling of openness.





Control is the name of the game.

The Carnival's upscale and sophisticated interior puts the driver in command by enabling quick choices with minimal distraction through the use of steering wheel controls, or by tapping on the intuitive centre-console screen.



Individual comfort for every single seat.

With cosseting, welcoming seats, enviable headroom, and tasteful materials, the Carnival comfortably accommodates every individual occupant. From the ways the doors slide to how the seats can be adjusted and moved, the interior is engineered to make the ride a joy for everyone inside.



Surrounded by screens that say just enough.

Information technology has changed driving forever. But rather than being bombarded by a seemingly infinite amount of data, the Carnival presents everything on a need-to-know basis, filtering out what's not absolutely necessary. The cockpit is designed and engineered to help you focus on the key information while your mind stays on the road and what's around you.



4.2-inch supervision cluster.

The supervision cluster helps you stay focused and informed, with data like remaining distance to empty and fuel consumption, navigation cues, and outside temperature.

*Excluding SXL model.

12.3-inch infotainment and navigation system.

View and select audio functions on the 12.3-inch display audio. Choose audio sources, tune in to radio stations, and adjust audio quality to taste by using convenient controls mounted on the steering wheel. With phone projection, the display of a compatible phone can be viewed on the centre touchscreen. *SX Limited and SXL model only.

Smartphone wireless charger.

Now with up to 15W of electric power, the charging pad in the Wireless Charging Tray bin lets you charge compatible mobile phones wirelessly. The indicator shows orange while charging and turns green when charging is complete. *SX Limited and SXL model only.



Multi-function free mode seat.

For the 8-seat model, the 2nd row seat can be removed and turned to face the 3rd row seat. Or turn and fold the centre seat only to create a shared table.



Luggage mode. For 7- or 8-seat models, the 2nd row seats can be removed, and a lever lets you fold down the 3rd row seats to accommodate cargo.



7 seats



8 seats





3rd row 2nd row centre seat (Addition of 2nd row centre seat) 60:40 split sinking (Child care mode)



The versatility to handle whatever the future brings.

It's hard to think of a more accommodating and flexible interior than this. Seating options let you fit up to eight people, while some or most seats can be removed to make way for cargo. You can even turn the walk-in (non-reclining) 2nd row seat to face backward, so occupants can see each other while they talk, limousine-style.

Less vibration, less fuel and all the power you need.

The quieter diesel engine of the new Carnival offers significant fuel savings though improved cooling and reduced friction. The 8-speed automatic transmission offers smooth operation, with more gear ranges to achieve the perfect balance of economy and power.

Makes even the longest journeys a pleasure.

From a dual sunroof system to seat warming and cooling ventilation, the Carnival is packed with all the features a big family could wish for.















Exterior Colours.

















Safety first.

Designed with safety in mind, the Carnival employs the latest in innovation and protective technology to ensure peace-of-mind when driving with your loved ones.



Parking Distance Warning (PDW).

For utmost confidence when maneuvering into and out of tight spaces, PDW uses ultrasonic sensors mounted on the front and rear bumpers to warn you of any nearby obstacles.



Rear Cross-Traffic Collision-Avoidance Assist (RCCA). Rear corner radars detect the presence of cross traffic, from the right or left, in the lane the Carnival is backing into. If a vehicle is detected, and audible and visual warnings go unheeded, emergency braking is applied automatically.

*This feature is available in the SX Limited and SXL models only.

Forward Collision Avoidance Assist (FCA).

As you turn right at an intersection, FCA uses a front view camera and a front radar to detect oncoming vehicles, pedestrians, or cyclists ahead. By warning the driver and automatically applying the brakes, FCA helps to avoid or reduce the severity of an accident. *This feature is available in the SX Limited and SXL models only.







To help you stay in the centre of your lane, LFA identifies the lane's boundaries using the front view camera. If it senses that you're drifting out of the lane, it automatically

lines. *This feature is available in the SX Limited and SXL models only.

steers the vehicle to keep

it centered between the

Rear View Monitor (RVM).

Rear View Monitor with Parking Guidance gives you a live view of what's behind you. Lines superimposed on the image help you know how much space you have.

*This feature is available in the SX Limited and SXL models only.





Blind-Spot Collision-Avoidance Assist (BCA).

If you start to change lanes and BCA detects a vehicle in the blind spot, it will warn you, and can even apply differential braking to avoid a collision. It also alerts you to approaching vehicles when exiting a parallel parking space.

*This feature is available in the SX Limited and SXL models only.

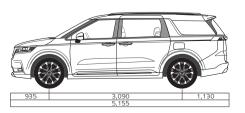
Smart Cruise Control (SCC).

With a simple touch of a button, SCC will maintain the driver's selected speed. Using the front view camera and front radar, the system allows the vehicle to automatically maintain a safe following distance, reduce speed, and even come to a complete stop and start again, if necessary.

*This feature is available in the SX Limited and SXL models only.

Lane Following Assist (LFA).

STANDARD SPECIFICATIONS				
CARNIVAL	2.2 Diesel CRDi			
TRIM	EX EX+	SX Limited SXL		
DRIVE TYPE		2WD		
TRANSMISSION	Auto 8-Speed			
DIMENSIONS				
Overall Dimensions (length x width x height) (mm)	5155 x 1995 x 1775			
Wheelbase (mm)	3090			
Overhang (front/rear) (mm)	935 / 1130			
Minimum Ground clearance (mm)	172			
Wheel tread (front/rear) (mm)		5/1636)		
TECHNICAL SPECIFICATIONS	(1020) (1000)			
Engine Type	New R 2.2 CRDI			
Displacement (cc)	2151			
Valve system	16-Valve HLA			
Maximum Power (kW/ r/min)	148 / 3800			
Maximum Torque (Nm/r/min)		440 / 1750 ~ 2750		
Compression ratio	16.0 +/- 3%			
Bore x stroke (mm)	83 x 99.4			
Fuel Injection System	23 X 99.4 Common Rail Direct Injection			
Fuel Type	Diesel			
PERFORMANCE				
Acceleration (0-100km/h)	10.7			
Maximum Speed (km/h)	10.7			
CO2 emissions (g/km) - Combined Cycle (MT/AT)	190			
CAPACITIES				
Curb Weight (max kg) 2WD/AWD	2038			
Gross Vehicle Mass (GVM) (kg) 2WD/AWD	2780			
Tow mass (kg) - Braked / Unbraked	1588 / 454			
Fuel Tank Capacity (I)		72		
Cargo space (ℓ) (VDA 1st/3rd row)	4110 / 1139			
Cargo Opening (mm)				
Lift-over Height (mm)	1225mm × 1025mm 640			
STEERING				
Type Minimum Turning Radius (m)	Motor Power Assisted, Rack & Pinion Type (MDPS) 5.6 ± 0.2			
BRAKES		5 - 0.2		
Front brakes	Disc	345 mm)		
Rear brakes				
Real Diakes	Disc (325 mm)			
SUSPENSION		an Churt Tura		
Front	Macphers	on Strut Type		
Front Rear	Macphers	on Strut Type Link Type		
Front Rear SAFETY, SECURITY & DRIVER ASSISTANCE SYSTEMS	Macphers	Link Type		
Front Rear SAFETY, SECURITY & DRIVER ASSISTANCE SYSTEMS ABS (Anti-lock Braking System)	Macphers	Link Type X		
Front Rear SAFETY, SECURITY & DRIVER ASSISTANCE SYSTEMS ABS (Anti-lock Braking System) Number of Airbags	Macphers Multi	Link Type X 7		
Front Rear SAFETY, SECURITY & DRIVER ASSISTANCE SYSTEMS ABS (Anti-lock Braking System) Number of Airbags Airbag Location	Macphers Multi	Link Type X 7 rrtain, Driver Knee		
Front Rear SAFETY, SECURITY & DRIVER ASSISTANCE SYSTEMS ABS (Anti-lock Braking System) Number of Airbags Airbag Location Central locking with Immobiliser	Macphers Multi	Link Type X 7 Irtain, Driver Knee X		
Front Rear SAFETY, SECURITY & DRIVER ASSISTANCE SYSTEMS ABS (Anti-lock Braking System) Number of Airbags Airbag Location Central locking with Immobiliser Data Dot	Macphers Multi	Link Type X 7 Irtain, Driver Knee X X		
Front Rear SAFETY, SECURITY & DRIVER ASSISTANCE SYSTEMS ABS (Anti-lock Braking System) Number of Airbags Airbag Location Central locking with Immobiliser Data Dot Electronic Brake-force Distribution (EBD)	Macphers Multi	Link Type X 7 rtain, Driver Knee X X X X X		
Front Rear SAFETY, SECURITY & DRIVER ASSISTANCE SYSTEMS ABS (Anti-lock Braking System) Number of Airbags Airbag Location Central locking with Immobiliser Data Dot Electronic Brake-force Distribution (EBD) Electric Parking Brake with Auto Hold Function (EPB)	Macphers Multi	Link Type X 7 rrtain, Driver Knee X X X X X X		
Front Rear SAFETY, SECURITY & DRIVER ASSISTANCE SYSTEMS ABS (Anti-lock Braking System) Number of Airbags Airbag Location Central locking with Immobiliser Data Dot Electronic Brake-force Distribution (EBD) Electronic Brake-force Distribution (EBD) Electric Stability Control (ESC)	Macphers Multi	Link Type X 7 rtain, Driver Knee X X X X X X X X X X X X		
Front Rear SAFETY, SECURITY & DRIVER ASSISTANCE SYSTEMS ABS (Anti-lock Braking System) Number of Airbags Airbag Location Central locking with Immobiliser Data Dot Electronic Brake-force Distribution (EBD) Electric Barking Brake with Auto Hold Function (EPB) Electric Stability Control (ESC) Hill-Start Assist Control (HAC)	Macphers Multi D&P, Side + Ci	Link Type X 7 rtain, Driver Knee X X X X X X X X X X X X X X X X X X		
Front Rear SAFETY, SECURITY & DRIVER ASSISTANCE SYSTEMS ABS (Anti-lock Braking System) Number of Airbags Airbag Location Central locking with Immobiliser Data Dot Electroic Brake-force Distribution (EBD) Electric Barking Brake with Auto Hold Function (EPB) Electric Stability Control (ESC) Hill-Start Assist Control (HAC) ISOFIX (Child Anchors)	Macphers Multi D&P, Side + Ci	Link Type X 7 7 rtain, Driver Knee X X X X X X X X X X X X X X X X X X		
Front Rear SAFETY, SECURITY & DRIVER ASSISTANCE SYSTEMS ABS (Anti-lock Braking System) Number of Airbags Airbag Location Central locking with Immobiliser Data Dot Electric Brake-force Distribution (EBD) Electric Parking Brake with Auto Hold Function (EPB) Electric Parking Brake with Auto Hold Function (EPB) Electric Stability Control (ESC) Hill-Start Assist Control (HAC) ISOFIX (Child Anchors) Child Lock (Manual)	Macphers Multi D&P, Side + Ci	Link Type X 7 7 xtain, Driver Knee X X X X X X X X X X X X X X X X X X		
Front Rear SAFETY, SECURITY & DRIVER ASSISTANCE SYSTEMS ABS (Anti-lock Braking System) Number of Airbags Airbag Location Central locking with Immobiliser Data Dot Electric Brake-force Distribution (EBD) Electric Parking Brake with Auto Hold Function (EPB) Electric Parking Brake with Auto Hold Function (EPB) Electric Stability Control (ESC) Hill-Start Assist Control (HAC) ISOFIX (Child Anchors) Child Lock (Manual) Door Lock Control System - Central, Driver + Passengers	Macphers Multi D&P, Side + C	Link Type X 7 7 X X X X X X X X X X X X X X X X		
Front Rear SAFETY, SECURITY & DRIVER ASSISTANCE SYSTEMS ABS (Anti-lock Braking System) Number of Airbags Airbag Location Central locking with Immobiliser Data Dot Electronic Brake-force Distribution (EBD) Electric Parking Brake with Auto Hold Function (EPB) Electric Stability Control (ESC) Hill-Start Assist Control (HAC) ISOFIX (Child Anchors) Child Lock (Manual) Door Lock Control System - Central, Driver + Passengers Parking Assist Sensors (PDC)	Macphers Multi D&P, Side + C	Link Type X 7 7 X X X X X X X X X X X X X X X X		
Front Rear SAFETY, SECURITY & DRIVER ASSISTANCE SYSTEMS ABS (Anti-lock Braking System) Number of Airbags Airbag Location Central locking with Immobiliser Data Dot Electronic Brake-force Distribution (EBD) Electric Parking Brake with Auto Hold Function (EPB) Electric Stability Control (ESC) Hill-Start Assist Control (HAC) ISOFIX (Child Anchors) Child Lock (Manual) Door Lock Control System - Central, Driver + Passengers Parking Assist Sensors (PDC) Rheostat	Macphers Multi D&P, Side + Cr D&P, Side + Cr Cr Cr Cr Cr Cr Cr Cr Cr Cr Cr Cr Cr C	Link Type X X 7 X X X X X X X X X X X X X X X X		
Front Rear SAFETY, SECURITY & DRIVER ASSISTANCE SYSTEMS ABS (Anti-lock Braking System) Number of Airbags Airbag Location Central locking with Immobiliser Data Dot Electronic Brake-force Distribution (EBD) Electric Parking Brake with Auto Hold Function (EPB) Electric Stability Control (ESC) Hill-Start Assist Control (HAC) ISOFIX (Child Anchors) Child Lock (Manual) Door Lock Control System - Central, Driver + Passengers Parking Assist Sensors (PDC) Rheostat Smart Entry with Push Button Start	Macphers Multi D&P, Side + C	Link Type X 7 7 X X X X X X X X X X X X X X X X		
Front Rear SAFETY, SECURITY & DRIVER ASSISTANCE SYSTEMS ABS (Anti-lock Braking System) Number of Airbags Airbag Location Central locking with Immobiliser Data Dot Electronic Brake-force Distribution (EBD) Electric Parking Brake with Auto Hold Function (EPB) Electric Stability Control (ESC) Hill-Start Assist Control (HAC) ISOFIX (Child Anchors) Child Lock (Manual) Door Lock Control System - Central, Driver + Passengers Parking Assist Sensors (PDC) Rheostat	Macphers Multi D&P, Side + Cr D&P, S	Link Type X X 7 X X X X X X X X X X X X X X X X		
Front Rear SAFETY, SECURITY & DRIVER ASSISTANCE SYSTEMS ABS (Anti-lock Braking System) Number of Airbags Airbag Location Central locking with Immobiliser Data Dot Electronic Brake-force Distribution (EBD) Electric Parking Brake with Auto Hold Function (EPB) Electric Stability Control (ESC) Hill-Start Assist Control (HAC) ISOFIX (Child Anchors) Child Lock (Manual) Door Lock Control System - Central, Driver + Passengers Parking Assist Sensors (PDC) Rheostat Smart Entry with Push Button Start	Macphers Multi D&P, Side + Cr D&P, S	Link Type X 7 7 rtain, Driver Knee X X X X X X X X X X 3rd Row X X X A A A A A A A A A A A A A A A A		
Front Rear SAFETY, SECURITY & DRIVER ASSISTANCE SYSTEMS ABS (Anti-lock Braking System) Number of Airbags Airbag Location Central locking with Immobiliser Data Dot Electroic Brake-force Distribution (EBD) Electric Barke-force Distribution (EBD) Electric Stability Control (ESC) Hill-Start Assist Control (HAC) ISOFIX (Child Anchors) Child Lock (Manual) Door Lock Control System - Central, Driver + Passengers Parking Assist Sensors (PDC) Rheostat Smart Entry with Push Button Start WHEELS & TYRES Wheels Tyres	Macphers Multi D&P, Side + Cr D&P, S	Link Type X 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		
Front Rear SAFETY, SECURITY & DRIVER ASSISTANCE SYSTEMS ABS (Anti-lock Braking System) Number of Airbags Airbag Location Central locking with Immobiliser Data Dot Electric Brake-force Distribution (EBD) Electric Brake-force Distribution (EBD) Electric Stability Control (ESC) Hill-Start Assist Control (HAC) ISOFIX (Child Anchors) Child Lock (Manual) Door Lock Control System - Central, Driver + Passengers Parking Assist Sensors (PDC) Rheostat Smart Entry with Push Button Start WHEELS & TYRES Wheels Tyres Spare wheel - Full Size Alloy	Macphers Multi D&P, Side + Cr D&P, S	Link Type X 7 7 rtain, Driver Knee X X X X X X X X X X 3rd Row X X X A A A A A A A A A A A A A A A A		
Front Rear SAFETY, SECURITY & DRIVER ASSISTANCE SYSTEMS ABS (Anti-lock Braking System) Number of Airbags Airbag Location Central locking with Immobiliser Data Dot Electroic Brake-force Distribution (EBD) Electric Brake-force Distribution (EBD) Electric Stability Control (ESC) Hill-Start Assist Control (HAC) ISOFIX (Child Anchors) Child Lock (Manual) Door Lock Control System - Central, Driver + Passengers Parking Assist Sensors (PDC) Rheostat Smart Entry with Push Button Start WHEELS & TYRES Wheels Tyres	Macphers Multi Multi D&P, Side + Cr D&P, Side + Cr D&P, Side + Cr C C C C C C C C C C C C C C C C C C	Link Type X 7 irtain, Driver Knee X X X X X X X X X 3rd Row X X and Rear X 19' 19' 19' 19' 19' 235/55R19 X		
Front Rear SAFETY, SECURITY & DRIVER ASSISTANCE SYSTEMS ABS (Anti-lock Braking System) Number of Airbags Airbag Location Central locking with Immobiliser Data Dot Electric Parking Brake with Auto Hold Function (EPB) Electric Stability Control (ESC) Hill-Start Assist Control (HAC) ISOFIX (Child Anchors) Child Lock (Manual) Door Lock Control System - Central, Driver + Passengers Parking Assist Sensors (PDC) Rheostat Smart Entry with Push Button Start WHEELS & TYRES Wheels Tyres Spare wheel - Full Size Alloy WARRANTY & SERVICE ROADSIDE ASSISTANCE Warranty	Macphers Multi Multi D&P, Side + Cr D&P, Side + Cr D&P, Side + Cr C	Link Type X 7 rtain, Driver Knee X X X X X X 3rd Row X X and Rear X 19° 19° 235/55R19 X mited Kilometre		
Front Rear SAFETY, SECURITY & DRIVER ASSISTANCE SYSTEMS ABS (Anti-lock Braking System) Number of Airbags Airbag Location Central locking with Immobiliser Data Dot Electric Brake-force Distribution (EBD) Electric Brake-force Distribution (EBD) Electric Stability Control (ESC) Hill-Start Assist Control (HAC) ISOFIX (Child Anchors) Child Lock (Manual) Door Lock Control System - Central, Driver + Passengers Parking Assist Sensors (PDC) Rheostat Smart Entry with Push Button Start WHEELS & TYRES Wheels Tyres Spare wheel - Full Size Alloy WARRANTY & SERVICE ROADSIDE ASSISTANCE	Macphers Multi Multi D&P, Side + Co	Link Type X 7 irtain, Driver Knee X X X X X X X X X 3rd Row X X and Rear X 19' 19' 19' 19' 19' 235/55R19 X		









Heated Seats



STANDARD SPECIFICATIONS	2.2 Diesel CRDi			
CARNIVAL	EV.		1	
	EX	EX+	SX Limited	SXL
DRIVE TYPE TRANSMISSION	2WD			
FEATURES	Auto 8-Speed			
Auto Light Control	X	X	X	X
LED Daytime Running Lights	X	x	X	X
Rear Spoiler With LED High Mounted Stop Lamp	X	x	x	X
Electric mirrors & side mirror indicator	X	x	x	X
Folding Electric Mirrors	X	x	x	X
Shift By Wire Electronic Transmission	-	X	X	X
Body Colour Door Handles	Х	X	X	X
Dual Sliding Doors - Manual	X	-	-	-
Dual Sliding Doors - Power	-	x	X	Х
Bluetooth With Voice Recognition	Х	х	X	Х
Audio Remote Control	Х	х	X	Х
Paddle Shift (Lever Type)	-	Х	Х	Х
Centre console armrest w/storage box	Х	Х	Х	Х
Power Tail Gate	-	Х	Х	Х
Cruise Control (Conventional)	Х	Х	-	-
Cruise Control (Smart)	-	-	Х	Х
Auto Electric Windows (Front & Rear)	Х	Х	Х	Х
Electric Lumbar Support	Driver	Driver	Driver - 4 Way	Driver - 4 Way
Electric Seats	Driver	Driver	Driver + Passenger	Driver + Passenger
Electrochromatic Inside Rear View Mirror	-	Х	Х	Х
Overhead Console Lamps	Х	Х	LED	LED
Front Fog Lamp	-	-	LED	LED
High Performance Dampers (Front & Rear)	Х	Х	Х	Х
Apple CarPlay & Android Auto	Х	Х	Х	Х
60:40 Split Back Folding For 3 Passengers (3rd Row)	Х	Х	Х	Х
Leather Seats (Artificial)	Х	Х	Х	Х
Leather Steering Wheel	Х	Х	Х	Х
Memory Seat - Driver	-	-	Х	Х
Seat Back Panel With Pocket	Driver + Passenger	Driver + Passenger	Driver + Passenger	Driver + Passenger
Roof Rack	Х	Х	Х	Х
Rear USB Port	2	4	4	4
Front USB Port	2	3	3	3
Front LED Headlights (Multi MFR)	Х	Х	-	-
Front Dual Projection LED Head Lamps (Low & High Projection)	-	-	X	Х
Front and Rear Air Conditioner (Manual)	Х	-	-	-
Front and Rear Air Conditioner (Automatic Temperature Control)	-	Х	Х	X
Bose Premium Sound System	-	-	-	X
Speakers	6	6	6	12
Steering Wheel Remote Controls	X X	X X	X	×
Steering Wheel - Tilt & Telescopic Mud Guards	X	X	X	X
Cargo Lamp	X	X	LED	LED
Room Lamp	2nd & 3rd Rows			
Dual Sunroof - Tilt & Slide	-	-	X	X
Wireless Charger for Smart Phone	-	-	X	x
4.2" Supervision Cluster TFT LCD + RHEOSTAT	X	X	x	-
8" Audio Display Infotainment + RDS	X	x	-	_
12,3" Audio Display Information + RDS	-	-	X	X
12.3" Intergrated Display Interainment + KD3 12.3" Intergrated Display Supervision Cluster TFT LCD + RHEOSTAT	-	-	-	x
Trip Computer	X	X	X	x
Rear Fog Lamp - Bulb	X	X	X	X
Rear Combination Lamp - Bulb	X	X	-	-
Rear Combination Lamp - LED	-	-	х	Х
Sunvisor - Illuminated	Driver + Passenger	Driver + Passenger	Driver + Passenger	Driver + Passenger
Skid Plates - Front & Rear	-	-	X	X
Rear Door and 3rd Row Curtain Shade	-	Х	Х	Х
Front Cup Holders	Х	х	х	Х
Rear Cup Holders	Х	Х	Х	Х
Drive Mode Select	Х	Х	Х	X
Remote Start On Key	-	Х	Х	Х
Remote Rear Door and Tailgate Opening On Key	-	Х	Х	Х
Rear Camera View Function - All Gears	-	Х	Х	Х
Around View Monitor	-	-	X	Х
Rear Cross Traffic Alert	-	-	Х	Х
Blind Spot Collision Avoidance Assist	-	-	Х	Х
Blind Spot Monitor	-	-	-	Х
Lane Keeping Assist	-	-	Х	Х
Lane Following Assist	-	-	Х	Х
Forward Collision Avoidance	-	-	Х	Х
Ventilated Seats	-	-	Driver & Passenger	Driver & Passenger
Heated Seats	-	-	Driver & Passenger	Driver & Passenger



Driver & Passenger

Driver & Passenger

235/60R18 18" Alloy Wheel