

# KONA

Technical, Specifications and Pricing  
Model Year 26



	1.0T 115PS 6MT	1.6T 150PS 6MT	1.6T 150PS 7DCT	1.6 Hybrid 138PS 6DCT
<b>POWERTRAIN</b>				
Euro Status	EURO 6e	EURO 6e	EURO 6e	EURO 6e-bis
Type	3 Cylinder DOHC	4 Cylinder DOHC	4 Cylinder DOHC	4 Cylinder DOHC
Valve	12	16	16	16
Displacement (cc)	998	1598	1598	1580
Bore & Stroke (mm)	71 x 84	75.6 x 89	75.6 x 89	72 x 97
Compression Ratio	11.5	11	11	13
Max Power (PS/kW) Powertrain	115 / 85 @ 6000 rpm (PS/kW)	150 / 110 @ 6000 rpm (PS/kW)	150 / 110 @ 6000 rpm (PS/kW)	102 / 75 @ 5700 rpm (PS/kW)
Torque (Nm/lbs ft)	200 / 148 @ 2000-2500 rpm (Nm/lbs ft)	250 / 184 @ 1500-4000 rpm (Nm/lbs ft)	250 / 184 @ 1500-4000 rpm (Nm/lbs ft)	141 / 104 @ 3700 rpm (Nm/lbs ft)
0-62mph (seconds)	11.9	9.8	8.9	11.0
Top Speed (mph)	111	124	125	103
<b>ELECTRIC MOTOR</b>				
Electric Motor Type	-	-	-	Permanent Magnet Synchronous Motor (PMSM)
Electric Motor Max Power (PS/kW)	-	-	-	43 / 32 (PS/kW)
Electric Motor Torque (Nm/lbs ft)	-	-	-	170 / 125 (Nm/lbs ft)
<b>HIGH VOLTAGE BATTERY</b>				
Battery Type	-	-	-	Lithium-ion Polymer
Battery Power (kW)	-	-	-	42
Battery Capacity (kWh/Ah)	-	-	-	1.32 / 5.5
Voltage	-	-	-	240
<b>HYBRID SYSTEM</b>				
Max Hybrid System Power Output (PS/kW)	-	-	-	138 / 101 (PS/kW)
Max Hybrid System Torque Output (Nm/lbs ft)	-	-	-	265 / 195 (Nm/lbs ft)
<b>SUSPENSION</b>				
Front	MacPherson Strut Type	MacPherson Strut Type	MacPherson Strut Type	MacPherson Strut Type
Rear	Coupled Torsion Beam Axle (CTBA)	Coupled Torsion Beam Axle (CTBA)	Coupled Torsion Beam Axle (CTBA)	Multi Link Type
<b>STEERING</b>				
System	Motor Driven Power Steering (C-MDPS)			
Steering Wheel Lock to Lock Turns	2.5	2.5	2.5	2.5
Turning Circle (metres)	10.6	10.6	10.6	10.6
<b>BRAKE</b>				
System	Power Assisted Braking System with ABS and EBD	Power Assisted Braking System with ABS and EBD	Power Assisted Braking System with ABS and EBD	Power Assisted Braking System with ABS and EBD
Front	Ventilated Disc	Ventilated Disc	Ventilated Disc	Ventilated Disc
Rear	Solid Disc	Solid Disc	Solid Disc	Solid Disc

	1.0T 115PS 6MT	1.6T 150PS 6MT	1.6T 150PS 7DCT	1.6 Hybrid 138PS 6DCT
<b>DIMENSIONS</b>				
Overall Length (mm)	4350 (4385 N Line)			
Overall Width (mm) (Excluding Door Mirrors)	1825	1825	1825	1825
Overall Width (mm) (Including Door Mirrors)	2100	2100	2100	2100
Wheelbase (mm)	2660	2660	2660	2660
<b>WEIGHT AND CAPACITY</b>				
Kerb Weight (kg)	1295-1435	1330-1460	1360-1490	1410-1525
Payload (kg)	565-425	555-425	555-425	425-540
Gross Vehicle Weight (kg)	1860	1885	1915	1950
Max Tow Weight (kg) - Braked	1210	1310	1310	1110
Max Tow Weight (kg) - Unbraked	600	600	600	600
Gross Train Weight (kg)	3070	3195	3225	3060
Noseweight (kg)	80	80	80	80
Max Roof Weight (kg)	100	100	100	100
Fuel Tank Capacity (litre)	47	47	47	38
<b>Advance</b>				
Front Tyre	215/60 R17	215/60 R17	-	215/55 R18
Rear Tyre	215/60 R17	215/60 R17	-	215/55 R18
Front Wheel	7.0J x 17	7.0J x 17	-	7.0J x 17
Rear Wheel	7.0J x 17	7.0J x 17	-	7.0J x 17
Front Track	1591	1591	-	1591
Rear Track	1600	1600	-	1600
Overall Height (mm)	1585	1585	-	1585
Luggage Capacity VDA (litres) - Seats Up	466	466	-	466
Luggage Capacity VDA (litres) - Seats Down	1300	1300	-	1300
WLTP-Low Phase MPG (100KM) †	36.7 (7.7)	32.8 (8.6)	33.2 (8.5)	76.3 (3.7)
WLTP-Mid Phase MPG (100KM) †	48.7 (5.8)	44.1 (6.4)	44.8 (6.3)	76.3 (3.7)
WLTP-High Phase MPG (100KM) †	56.5 (5.0)	51.4 (5.5)	52.3 (5.4)	61.4 (4.6)
WLTP-Extra High Phase MPG (100KM) †	47.1 (6.0)	43.5 (6.5)	44.1 (6.4)	49.6 (5.7)
WLTP-Combined MPG (100KM) †	47.9 (5.9)	44.1 (6.4)	44.1 (6.4)	60.1 (4.7)
WLTP-CO2 Emissions (g/km) †	133	146	144	107

	1.0T 115PS 6MT	1.6T 150PS 6MT	1.6T 150PS 7DCT	1.6 Hybrid 138PS 6DCT
<b>N Line</b>				
Front Tyre	215/55 R18	215/55 R18	215/55 R18	215/55 R18
Rear Tyre	215/55 R18	215/55 R18	215/55 R18	215/55 R18
Front Wheel	7.0J x 18	7.0J x 18	7.0J x 18	7.0J x 18
Rear Wheel	7.0J x 18	7.0J x 18	7.0J x 18	7.0J x 18
Front Track	1591	1591	1591	1591
Rear Track	1600	1600	1600	1600
Overall Height (mm)	1585	1585	1585	1585
Luggage Capacity VDA (litres) - Seats Up	466	466	466	466
Luggage Capacity VDA (litres) - Seats Down	1300	1300	1300	1300
WLTP-Low Phase MPG (l/100km) †	35.8 (7.9)	32.1 (8.8)	32.5 (8.7)	74.3 (3.8)
WLTP-Mid Phase MPG (l/100km) †	47.9 (5.9)	42.8 (6.6)	42.8 (6.6)	76.3 (3.7)
WLTP-High Phase MPG (l/100km) †	54.3 (5.2)	49.6 (5.7)	50.4 (5.6)	61.4 (4.6)
WLTP-Extra High Phase MPG (l/100km) †	45.6 (6.2)	42.8 (6.6)	42.8 (6.6)	48.7 (5.8)
WLTP-Combined MPG (l/100km) †	46.3 (6.1)	42.8 (6.6)	42.8 (6.6)	60.1 (4.7)
WLTP-CO <sub>2</sub> Emissions (g/km) †	138	150	149	107
<b>N Line S</b>				
Front Tyre	215/55 R18	215/55 R18	215/55 R18	215/55 R18
Rear Tyre	215/55 R18	215/55 R18	215/55 R18	215/55 R18
Front Wheel	7.0J x 18	7.0J x 18	7.0J x 18	7.0J x 18
Rear Wheel	7.0J x 18	7.0J x 18	7.0J x 18	7.0J x 18
Front Track	1591	1591	1591	1591
Rear Track	1600	1600	1600	1600
Overall Height (mm)	1585	1585	1585	1585
Luggage Capacity VDA (litres) - Seats Up	466	466	466	466
Luggage Capacity VDA (litres) - Seats Down	1300	1300	1300	1300
WLTP-Low Phase MPG (l/100km) †	35.8 (7.9)	31.7 (8.9)	32.1 (8.8)	74.3 (3.8)
WLTP-Mid Phase MPG (l/100km) †	47.1 (6.0)	42.4 (6.7)	42.8 (6.6)	76.3 (3.7)
WLTP-High Phase MPG (l/100km) †	54.3 (5.2)	49.6 (5.7)	50.4 (5.6)	61.4 (4.6)
WLTP-Extra High Phase MPG (l/100km) †	45.6 (6.2)	42.8 (6.6)	42.8 (6.6)	48.7 (5.8)
WLTP-Combined MPG (l/100km) †	46.3 (6.1)	42.8 (6.6)	42.8 (6.6)	60.1 (4.7)
WLTP-CO <sub>2</sub> Emissions (g/km) †	139	151	150	108

	1.0T 115PS 6MT	1.6T 150PS 6MT	1.6T 150PS 7DCT	1.6 Hybrid 138PS 6DCT
<b>Ultimate</b>				
Front Tyre	215/55 R18	215/55 R18	215/55 R18	215/55 R18
Rear Tyre	215/55 R18	215/55 R18	215/55 R18	215/55 R18
Front Wheel	7.0J x 18	7.0J x 18	7.0J x 18	7.0J x 18
Rear Wheel	7.0J x 18	7.0J x 18	7.0J x 18	7.0J x 18
Front Track	1591	1591	1591	1591
Rear Track	1600	1600	1600	1600
Overall Height (mm)	1585	1585	1585	1585
Luggage Capacity VDA (litres) - Seats Up	466	466	466	466
Luggage Capacity VDA (litres) - Seats Down	1300	1300	1300	1300
WLTP-Low Phase MPG (l/100km)†	35.3 (8.0)	31.7 (8.9)	32.1 (8.8)	72.4 (3.9)
WLTP-Mid Phase MPG (l/100km)†	47.1 (6.0)	42.4 (6.7)	42.8 (6.6)	74.3 (3.8)
WLTP-High Phase MPG (l/100km)†	54.3 (5.2)	49.6 (5.7)	50.4 (5.6)	61.4 (4.6)
WLTP-Extra High Phase MPG (l/100km)†	46.3 (6.1)	42.4 (6.7)	43.5 (6.5)	48.7 (5.8)
WLTP-Combined MPG (l/100km)†	46.3 (6.1)	42.4 (6.7)	43.5 (6.5)	58.9 (4.8)
WLTP-CO2 Emissions (g/km)†	138	153	148	108

† Fuel Consumption figures for the KONA model range. Mpg (l/100km)(Combined): 42.4 (6.7) - 58.9 (4.8). CO2 emissions: 153 - 107 g/km. Figures shown are for comparability purposes; only compare fuel consumption and CO2 figures with other cars tested to the same technical procedures. These figures may not reflect real life driving results, which will depend upon factors including the accessories fitted (post-registration), variations in weather, driving styles and vehicle load. Tested under WLTP regulations.

## Specifications

	Advance	N Line	N Line S	Ultimate
<b>POWERTRAIN &amp; TRANSMISSION</b>				
1.0T 115PS 6MT	•	•	•	•
1.6T 150PS 6MT	•	•	•	•
1.6T 150PS 7DCT	•	•	•	•
1.6 Hybrid 138PS 6DCT	•	•	•	•
<b>EXTERIOR</b>				
17" Alloy Wheels	•	-	-	-
18" Alloy Wheels	• (Hybrid only)	•	•	•
Door Mirrors - Body Coloured	•	-	-	•
Door Mirrors - Gloss Black	-	•	•	-
Exterior Door Handles - Body Coloured	•	•	•	•
N Line Exterior Design Pack - Front and Rear Bumpers, Side Skirts, Alloy Wheels, Twin Tip Exhaust and Badges	-	•	•	-
Rear Spoiler with Integrated LED Brake Light	•	•	•	•
Roof Rails	•	•	•	•
Skid Plate Front & Rear - Silver	•	-	-	•
Wheel Arch Inserts - Black	•	-	-	•
Wheel Arch Inserts - Body Coloured	-	•	•	-
<b>INTERIOR STYLING</b>				
Aluminium Pedals	-	•	•	-
Interior Door Handles - Metal Paint Effect	•	•	•	•
Leather Wrapped Steering Wheel and Gear Knob (MT)	•	•	•	•
<b>SEATING</b>				
Adjustable Head Restraints	•	•	•	•
Driver's Seat Electric Adjustments	-	-	•	•
Driver's Seat Height Adjustment (Manual)	•	•	•	•
Driver's Seat Lumbar Support	•	•	•	•
Front Passenger's Seat Electric Adjustments	-	-	•	•
Front Passenger Seat Height Adjustments (Manual)	•	•	-	-

## Specifications

	Advance	N Line	N Line S	Ultimate
<b>SEATING - continued</b>				
Front Seats - Heated	-	●	●	●
Front Seats - Ventilated	-	-	●	●
Head Restraints -Vertical Adjustment (Rear)	●	●	●	●
Rear Occupant Alert	●	●	●	●
Rear Seat Centre Armrest with Cupholders	●	●	●	●
Rear Seats - Heated	-	●	●	●
Rear Seats - Split Folding (40/20/40)	-	●	●	●
Seat Trim - Cloth	●	-	-	-
Seat Trim - N Line Cloth	-	●	-	-
Seat Trim - N Line Alcantara & Leather	-	-	●	-
Seat Trim - Black Leather (Seat Facings Only)	-	-	-	●
<b>VENTILATION &amp; VISIBILITY</b>				
Air Conditioning - Climate Control Dual Zone	●	●	●	●
Ambient Lighting - Interior	-	●	●	●
Automatic Dimming Rear View Mirror	●	●	●	●
Automatic Headlights with Dusk Sensor	●	●	●	●
Automatic Windscreen Wipers with Rain Sensor	●	●	●	●
Daytime Running Lights - LED	●	●	●	●
Horizon Centre DRL - LED	-	-	●	●
Headlights - Full MFR LED	●	●	-	-
Headlights - Full Projection LED	-	-	●	●
Indicator Lights Door Mirror LED	●	●	●	●
Interior Light - Front LED	●	●	●	●
Interior Light - Centre LED	●	●	●	●
Interior Light - Luggage Compartment LED	●	●	●	●
Privacy Glass - Rear Windows and Tailgate	-	●	●	●
Rear Lights Upper and Lower - LED	●	●	●	●

## Specifications

	Advance	N Line	N Line S	Ultimate
<b>VENTILATION &amp; VISIBILITY - continued</b>				
Solar Glass - Front Door Glass and Windscreen	-	•	•	•
Sunroof - Electric Opening Glass	-	-	-	•
Tinted Glass - Front and Rear Windows	•	•	•	•
Windscreen Auto Defog Function	•	•	•	•
<b>CONVENIENCE</b>				
12V Power Outlet - Front	•	•	•	•
Cruise Control - Smart Cruise Control (SCC) with Stop and Go Function (DCT and Hybrid only)	•	•	•	•
Cruise Control - Manual Type (Manual transmission only)	•	•	•	•
Door Mirrors - Electric Adjustment and Heated with Power Folding Function	•	•	•	•
Electric Windows - Front with Anti-Trap Mechanism and One Touch Control	•	•	•	•
Electric Windows - Rear	•	•	•	•
Front Seat - Back Pockets	•	•	•	•
Floor Mats	•	•	•	•
Heated Steering Wheel	-	•	•	•
Luggage Net	-	-	•	•
Luggage Shelf	•	•	•	•
Parking Brake - Electric	•	•	•	•
Parking Sensors - Front and Rear	•	•	•	•
Parking System - Rear Camera and Guidance System	•	•	•	•
Shift by Wire (SBW) - DCT and Hybrid only	•	•	•	•
Smart Key - Keyless Entry with Start/Stop Button	•	•	•	•
Steering Column - Height and Reach Adjustable	•	•	•	•
Sun Visors - with Driver and Passenger Illuminated Vanity Mirrors	•	•	•	•
Tailgate - Power Operated (Height Adjustable)	-	•	•	•
Temporary Mobility Kit	•	•	•	•
Trailer Wiring Package	•	•	•	•

## Specifications

	Advance	N Line	N Line S	Ultimate
<b>TECHNOLOGY &amp; ENTERTAINMENT</b>				
Bluetooth® Connectivity with Voice Recognition*	•	•	•	•
BOSE Premium Sound System with 7 Speakers and Subwoofer	-	-	•	•
Driver's Supervision Instrument Cluster with 12.3" LCD Display	•	•	•	•
Feature on Demand - Enabled†	•	•	•	•
12.3" Touchscreen Satellite Navigation including Bluelink connectivity (10 years LITE subscription, 3 years PLUS & 6 months free trial for PRO)**	•	•	•	•
Radio - Digital DAB	•	•	•	•
Smartphone Integration - Apple CarPlay™ and Android Auto™	•	•	•	•
Speakers - Front, Rear and Tweeters	•	•	-	-
Steering Wheel Audio, Phone and Cruise Controls	•	•	•	•
USB C - Front x2	•	•	•	•
USB C - Rear x2	•	•	•	•
Wireless Phone Charging Pad	-	•	•	•
<b>SAFETY &amp; SECURITY</b>				
Airbags - Front, Front Side, Curtain and Centre Front Airbags	•	•	•	•
Alarm (Perimeter Type) and Immobiliser	•	•	•	•
Anti-lock Brake System (ABS)	•	•	•	•
Blind Spot Collision Avoidance Assist (BCA)	-	-	•	•
Blind Spot View Monitor (BVM)	-	-	•	•
Central Locking - Remote Control	•	•	•	•
Downhill Brake Control (DBC)	•	•	•	•
Driver Attention Warning (DAW)	•	•	•	•
eCall	•	•	•	•
Electronic Stability Control (ESC)	•	•	•	•
Forward Collision Avoidance Assist (FCA 1.5) - Car, Pedestrian, Cycle and Junction Turning	•	•	•	•
Hill-start Assist Control (HAC)	•	•	•	•
Intelligent Speed Limit Assist (ISLA)	•	•	•	•

	Advance	N Line	N Line S	Ultimate
<b>SAFETY &amp; SECURITY - <i>continued</i></b>				
Lane Keep Assist (LKA)	●	●	●	●
Lane Follow Assist (LFA)	●	●	●	●
Leading Vehicle Departure Alert (LVDA)	●	●	●	●
Rear Cross Traffic Collision Avoidance Assist (RCCA)	-	-	●	●
Parking Distance Warning - Side	-	-	●	●
Parking Collision Avoidance Assist - Reverse (PCA-R)	-	-	●	●
Safe Exit Warning (SEW)	-	-	●	●
Surround View Monitor (SVM)	-	-	●	●
Tyre Pressure Monitoring System (TPMS)	●	●	●	●
<b>CUSTOMER OPTIONS</b>				
Solid Paint (Atlas White)	○	○	○	○
Metallic / Pearl Paint	○	○	○	○

# KONA

## Specifications



	Advance	N Line	N Line S	Ultimate
<b>WARRANTY</b>				
12 Years' Anti-Perforation Warranty	●	●	●	●
Five Year Annual Vehicle Health Checks	●	●	●	●
Five Year Unlimited Mileage Warranty	●	●	●	●
Hyundai Roadside Assistance	●	●	●	●

**KEY**

- Standard
- Optional
- Not Available

†Feature on Demand - Enabled for future FoD features

\*Compatible Smartphone, Bluelink App and active subscription with an eligible subscription plan.

\*\*After the free 10-year Bluelink® LITE subscription period ends, access to Bluelink features will expire unless a paid subscription plan is selected. Users may choose to upgrade to a higher-tier subscription at any time before the expiration of the LITE free plan.

# KONA



Pricing - Effective from 5<sup>th</sup> January 2026.

TRIM	POWERTRAIN	CO <sub>2</sub> EMISSIONS G/KM <sup>†</sup>	INSURANCE GROUP (1-50)	VED FIRST YEAR COST <sup>†</sup>	BASIC RETAIL £	VAT	RETAIL PRICE £	RECOMMENDED ON THE ROAD PRICE <sup>†</sup>	P11D VALUE	BIK BAND <sup>‡</sup>	MONTHLY BIK PAYABLE AT 20% <sup>‡</sup>	MONTHLY BIK PAYABLE AT 40% <sup>‡</sup>
Advance	1.0T 115PS 6MT	133	19A	£540	£21,625.00	£4,325.00	£25,950.00	£27,270.00	£26,675.00	31%	£137.82	£275.64
	1.6T 150PS 6MT	146	24A	£540	£22,416.67	£4,483.33	£26,900.00	£28,220.00	£27,625.00	34%	£156.54	£313.08
	1.6T 150PS 7DCT	144	25A	£540	£23,708.33	£4,741.67	£28,450.00	£29,770.00	£29,175.00	33%	£160.46	£320.93
N Line	1.0T 115PS 6MT	138	19A	£540	£23,125.00	£4,625.00	£27,750.00	£29,070.00	£28,475.00	32%	£151.87	£303.73
	1.6T 150PS 6MT	150	24A	£540	£23,916.67	£4,783.33	£28,700.00	£30,020.00	£29,425.00	35%	£171.65	£343.29
	1.6T 150PS 7DCT	149	26A	£540	£25,208.33	£5,041.67	£30,250.00	£31,570.00	£30,975.00	34%	£175.53	£351.05
N Line S	1.0T 115PS 6MT	139	19A	£540	£25,125.00	£5,025.00	£30,150.00	£31,470.00	£30,875.00	32%	£164.67	£329.33
	1.6T 150PS 6MT	151	24A	£1,360	£25,916.67	£5,183.33	£31,100.00	£33,240.00	£31,825.00	35%	£185.65	£371.29
	1.6T 150PS 7DCT	150	26A	£540	£27,208.33	£5,441.67	£32,650.00	£33,970.00	£33,375.00	35%	£194.69	£389.38
Ultimate	1.0T 115PS 6MT	138	19A	£540	£25,125.00	£5,025.00	£30,150.00	£31,470.00	£30,875.00	32%	£164.67	£329.33
	1.6T 150PS 6MT	153	24A	£1,360	£25,916.67	£5,183.33	£31,100.00	£32,240.00	£31,825.00	35%	£185.65	£371.29
	1.6T 150PS 7DCT	148	26A	£540	£27,208.33	£5,441.67	£32,650.00	£33,970.00	£33,375.00	34%	£189.13	£378.25

# KONA Hybrid

Pricing - Effective from 5<sup>th</sup> January 2026.

TRIM	POWERTRAIN	CO <sub>2</sub> EMISSIONS G/KM <sup>†</sup>	INSURANCE GROUP (1-50)	VED FIRST YEAR COST <sup>†</sup>	BASIC RETAIL £	VAT	RETAIL PRICE £	RECOMMENDED ON THE ROAD PRICE <sup>†</sup>	P11D VALUE	BIK BAND <sup>‡</sup>	MONTHLY BIK PAYABLE AT 20% <sup>‡</sup>	MONTHLY BIK PAYABLE AT 40% <sup>‡</sup>
Advance	1.6 Hybrid 138PS 6DCT	107	19A	£390.00	£25,225.00	£5,045.00	£30,270.00	£31,440.00	£30,995.00	26%	£134.31	£268.62
N Line	1.6 Hybrid 138PS 6DCT	107	19A	£390.00	£26,725.00	£5,345.00	£32,070.00	£33,240.00	£32,795.00	26%	£142.11	£284.22
N Line S	1.6 Hybrid 138PS 6DCT	108	20A	£390.00	£28,725.00	£5,745.00	£34,470.00	£35,640.00	£35,195.00	26%	£152.51	£305.02
Ultimate	1.6 Hybrid 138PS 6DCT	108	19A	£390.00	£28,725.00	£5,745.00	£34,470.00	£35,640.00	£35,195.00	26%	£152.51	£305.02

OPTIONAL EXTRAS	BASIC RETAIL PRICE	VAT	RETAIL PRICE
<b>Solid Paint (Atlas White)</b> All trims	£270.83	£54.17	£325.00
<b>Metallic / Pearl / Special Paint</b> All trims	£541.67	£108.33	£650.00

<sup>†</sup> Fuel Consumption figures for the KONA model range. MpG (l/100km)(Combined): 42.4 (6.7) - 58.9 (4.8). CO2 emissions: 153 - 107 g/km. Figures shown are for comparability purposes; only compare fuel consumption and CO2 figures with other cars tested to the same technical procedures. These figures may not reflect real life driving results, which will depend upon factors including the accessories fitted (post-registration), variations in weather, driving styles and vehicle load. Tested under WLTP regulations.

<sup>‡</sup> BIK rates are subject to change based on actual combined CO2 figures as published on the individual vehicle's Certificate of Conformity.

<sup>\*</sup>Compatible Smartphone, Bluelink App and active subscription with an eligible subscription plan. Convenience aid only. Not intended as a permanent key replacement.