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### Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	Red (60A)	+	IGPM-Dash Fuse Box, black 4 pin plug (B), pin 4
Ground	(chassis ground)		
Starter Kill	Orange	+	IGPM-Dash Fuse Box, gray 51 pin plug (A), pin 44
Starter	Yellow	+	IGPM-Dash Fuse Box, rear, white 38 pin plug (E), pin 2
Ignition	Red	+	Driver Kick, red 68 pin plug (EM11), pin 1
Accessory	Green	+	Driver Kick, red 68 pin plug (EM11), pin 33
Second Accessory	Blue	+	Driver Kick, red 68 pin plug (EM11), pin 55
Ignition Interrupt	Pink	Cut	IGPM-Dash Fuse Box, rear, white 38 pin plug (E), pin 12
PTS 1	Yellow/Black	-	Start Stop Button Switch, white 12 pin plug, pin 1
PTS 2	Yellow/Orange	-	Start Stop Button Switch, white 12 pin plug, pin 8
CAN Bus High	Pink (D-CAN)	Data	OBD-Data Link Connector, black 16 pin plug, pin 6
CAN Bus Low	Gray (D-CAN)	Data	OBD-Data Link Connector, black 16 pin plug, pin 14
CAN Bus High 2	Red (B-CAN)	Data	IGPM-Dash Fuse Box, rear, white 16 pin plug (G), pin 6
CAN Bus Low 2	Blue (B-CAN)	Data	IGPM-Dash Fuse Box, rear, white 16 pin plug (G), pin 5
CAN Bus High 3	Orange (P-CAN)	Data	IGPM-Dash Fuse Box, rear, white 16 pin plug (G), pin 2
CAN Bus Low 3	Green (P-CAN)	Data	IGPM-Dash Fuse Box, rear, white 16 pin plug (G), pin 1
OBD 12 Volts	Red (7.5A)	+	OBD-Data Link Connector, black 16 pin plug, pin 16
OBD Ground	Black	-	OBD-Data Link Connector, black 16 pin plug, pin 4

## 2020 Hyundai Kona(SmartKey)EU - Requested by: ampire.de



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Item	Wire Color	Polarity	Wire Location
OBD Connector	Black		Under Driver Dash, Behind Fuse Panel Cover
IMMO Data	Brown/Orange (EMS COM)	Data	Driver Kick, red 68 pin plug (EM11), pin 45
Power Lock	Green/Black	-	IGPM-Dash Fuse Box, white 32 pin plug (D), pin 13
Power Unlock	Green	-	IGPM-Dash Fuse Box, white 32 pin plug (D), pin 14
Power Unlock - Driver Door	Yellow/Black	-	IGPM-Dash Fuse Box, rear, white 16 pin plug (G), pin 15
Lock Motor	Gray	Reverse	IGPM-Dash Fuse Box, white 38 pin plug (C), pin 9
Driver Unlock Motor	White	Reverse	Driver Kick, gray 58 pin plug (MF11), pin 12
Passenger Unlock Motor	White	Reverse	IGPM-Dash Fuse Box, white 38 pin plug (C), pin 30
Factory Alarm Arm	Pink/Black (see Tech Doc 1300)	-	IGPM-Dash Fuse Box, white 32 pin plug (D), pin 22
Factory Alarm Disarm	Orange (see Tech Doc 1300)	Double -	IGPM-Dash Fuse Box, white 32 pin plug (D), pin 21
Lock Detection	Brown (see Tech Doc 1300)	Open	IGPM-Dash Fuse Box, white 32 pin plug (D), pin 30
Unlock Detection	(same as lock detection)	-	
Parking Lights	Red/Orange (LF); Brown (RF)	+	IGPM-Dash Fuse Box, gray 51 pin plug (A), pin 2 (LF); pin 1 (RF)
Parking Lights 2	Green/Black (LR); Brown/Black (RR)	+	IGPM-Dash Fuse Box, white 38 pin plug (C), pin 17 (LR); pin 7 (RR)
Parking Lights -	Blue	- 1680 Ohms	Headlight-Wiper Switch, black 16 pin plug, pin 14
Parking Lights MUX	Blue	MUX	Headlight-Wiper Switch, black 16 pin plug, pin 14
Hazards	Green	-	IGPM-Dash Fuse Box, rear, white 16 pin plug (G), pin 10
Turn Signal (Left)	Blue/Orange (LF); Blue/Orange (LR)	+	IGPM-Dash Fuse Box, gray 51 pin plug (A), pin 24 (LF); white 38 pin plug (C), pin 15 (LR)

## 2020 Hyundai Kona(SmartKey)EU - Requested by: ampire.de



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Item	Wire Color	Polarity	Wire Location
Turn Signal (Right)	Red/Orange (RF); Red/Orange (RR)	+	IGPM-Dash Fuse Box, gray 51 pin plug (A), pin 6 (RF); white 38 pin plug (C), pin 8 (RR)
Headlight	Gray	-	Headlight-Wiper Switch, black 16 pin plug, pin 15
AutoLights	Blue	- 680 Ohms (Off)	Headlight-Wiper Switch, black 16 pin plug, pin 14
Reverse Light	Brown	+	IGPM-Dash Fuse Box, white 32 pin plug (D), pin 18
Left Front Door Trigger	Blue	-	IGPM-Dash Fuse Box, white 32 pin plug (D), pin 31
Right Front Door Trigger	Gray	-	IGPM-Dash Fuse Box, white 32 pin plug (D), pin 29
Left Rear Door Trigger	Blue/Black	-	IGPM-Dash Fuse Box, white 32 pin plug (D), pin 2
Right Rear Door Trigger	Gray/Black	-	IGPM-Dash Fuse Box, white 32 pin plug (D), pin 19
Dome Light	Yellow	-	Left Front Pillar, white 44 pin plug (MR11), pin 4
Trunk/Hatch Pin	Green/Orange	-	IGPM-Dash Fuse Box, white 32 pin plug (D), pin 32
Hood Pin	Gray	-	IGPM-Dash Fuse Box, gray 51 pin plug (A), pin 20
Trunk/Hatch Release	Pink (rear handle switch)	-	IGPM-Dash Fuse Box, white 32 pin plug (D), pin 16
Trunk Release Motor	Red	+	IGPM-Dash Fuse Box, white 38 pin plug (C), pin 21
Rear Defroster	Black	- Latched	IGPM-Dash Fuse Box, gray 51 pin plug (A), pin 35
Mirror Defroster	(same as rear defroster)		
Left Front Heated Seat	Gray	-	Front Console Switch, white 28 pin plug, pin 3
Right Front Heated Seat	Silver	-	Front Console Switch, white 28 pin plug, pin 15
Heated Steering Wheel	Black/Orange	-	Front Console Switch, white 28 pin plug, pin 25
Speed Sense	White	AC	Radio, white 38 pin plug, pin 38



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Item	Wire Color	Polarity	Wire Location
Brake Wire	Green	+	Driver Kick, red 68 pin plug (EM11), pin 66
Brake Wire 2	Green (alternate location)	+	Brake Switch, black 6 pin plug, pin 5
Parking Brake	(electric parking brake)		
Horn Trigger	Yellow/Orange	-	Driver Kick, red 68 pin plug (EM11), pin 39
Horn - Factory Alarm	Yellow/Orange	-	IGPM-Dash Fuse Box, rear, white 16 pin plug (G), pin 16
Wipers	Red	+	Passenger Kick, white 68 pin plug (EM61), pin 20
Left Front Window (Up/Down)	Yellow - Orange (auto down); (auto up-down, motor is part of module)	A	Power Window Main Switch, white 18 pin plug, pins 7 - 9
Right Front Window (Up/Down)	Blue - Green (w/o auto); (with auto, motor is part of module)	A	Driver Kick, door harness
Left Rear Window (Up/Down)	Blue - Orange	A	Driver Kick, door harness
Right Rear Window (Up/Down)	Green - Pink	A	Driver Kick, door harness
Sun Roof (Open/Close)	Orange/Black and Pink (open) (functions with ignition on only)	Both -	Overhead Console, white 8 pin plug, pins 5, 6
Sun Roof (Limit/Close)	Pink and Yellow/Orange (close) (functions with ignition on only)	Both -	Overhead Console, white 8 pin plug, pins 6, 7
Radio 12V	Red and Orange	+	Radio, gray 35 pin plug, pins 10, 11
Radio Ground	Black	-	Radio, gray 35 pin plug, pins 12, 13
Radio Ignition	Blue	+	Radio, gray 35 pin plug, pin 22
Radio Illumination	Blue (parking lights); Gray (dimmer)	+,-	Radio, gray 35 pin plug, pin 6 (parking lights); pin 19 (dimmer)
Factory Amp Turn-on	(M-CAN); (audio is S/PDIF)		
Power Antenna	Red	+	Radio, gray 35 pin plug, pin 5
Left Front Speaker (+/-)	White - Brown	+,-	Radio, white 38 pin plug, pins 13 - 14
Right Front Speaker (+/-)	Red - Blue	+,-	Radio, white 38 pin plug, pins 16 - 15
Left Rear Speaker (+/-)	Yellow - Black	+,-	Radio, white 38 pin plug, pins 1 - 2
Right Rear Speaker (+/-)	Orange - Green	+,-	Radio, white 38 pin plug, pins 28 - 27



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Item	Wire Color	Polarity	Wire Location
Left Front Speaker - With Amp	White - Brown	+,-	Amplifier in left rear quarter panel, black 28 pin plug, pins 4 - 19
Right Front Speaker - With Amp	Red - Blue	+,-	Amplifier in left rear quarter panel, black 28 pin plug, pins 3 - 18
Left Rear Speaker - With Amp	Yellow - Black	+,-	Amplifier in left rear quarter panel, black 28 pin plug, pins 13 - 26
Right Rear Speaker - With Amp	Orange - Green	+,-	Amplifier in left rear quarter panel, black 28 pin plug, pins 12 - 25
Center Channel - With Amp	Red - Blue	+,-	Amplifier in left rear quarter panel, black 28 pin plug, pins 14 - 27
Subwoofer - With Amp	Brown - White (coil 1); Red - Blue (coil 2)	+,-	Amplifier in left rear quarter panel, black 28 pin plug, pins 2 - 17 (coil 1); pins 1 - 16 (coil 2)
Aux. Audio Input Left (+/-)	Red - Black/Orange	+,-	Radio, white 38 pin plug, pins 24 - 25
Aux. Audio Input Right (+/-)	Black - Black/Orange	+,-	Radio, white 38 pin plug, pins 10 - 25
Rearview Camera Video	Red - Black	+,-	Radio, white 38 pin plug, pins 7 - 21



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***What Fits***

Item	Size	Depth	Location
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