

2019 Kia Stinger(SmartKey)



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Wiring Information

| Item | Wire Color | Polarity | Wire Location |
|--------------------|------------------|----------|-------------------------------------------------------------------------------------------------------|
| 12 Volts | Red (50A) | + | ICU Junction Block-dash fuse box, black 4 pin plug (B), pin 4 |
| Ground | (chassis ground) | | |
| Starter | Brown/Orange | + | Passenger Kick, white 60 pin plug (EM21), pin 12 (H-Matic); blue 76 pin plug (MF21), pin 52 (E-Shift) |
| Ignition | Red | + | ICU Junction Block-dash fuse box, red 58 pin plug (C), pin 1 |
| Accessory | White | + | ICU Junction Block-dash fuse box, red 58 pin plug (C), pin 21 |
| Second Accessory | Yellow | + | ICU Junction Block-dash fuse box, red 58 pin plug (C), pin 38 |
| Ignition Interrupt | Brown/White | Cut | ICU Junction Block-dash fuse box, rear, white 16 pin plug (E), pin 12 |
| PTS 1 | Yellow/Orange | - | Start Stop Button Switch, white 12 pin plug, pin 1 |
| PTS 2 | Yellow/Black | - | Start Stop Button Switch, white 12 pin plug, pin 8 |
| CAN Bus High | Green (D-CAN) | Data | OBD-Data Link Connector, black 16 pin plug, pin 6 |
| CAN Bus Low | Orange (D-CAN) | Data | OBD-Data Link Connector, black 16 pin plug, pin 14 |
| CAN Bus High 2 | White (B-CAN) | Data | Driver Kick, blue 58 pin plug (MF11), pin 9 |
| CAN Bus Low 2 | Brown (B-CAN) | Data | Driver Kick, blue 58 pin plug (MF11), pin 10 |
| CAN Bus High 3 | Green (C-CAN) | Data | Driver Kick, red 36 pin plug (EM11), pin 14 |
| CAN Bus Low 3 | Orange (C-CAN) | Data | Driver Kick, red 36 pin plug (EM11), pin 20 |
| OBD 12 Volts | Gray (10A) | + | OBD-Data Link Connector, black 16 pin plug, pin 16 |
| OBD Ground | Black | - | OBD-Data Link Connector, black 16 pin plug, pin 4 |
| OBD Connector | Black | | Under Driver Dash, Below Fuse Panel Cover |

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| IMMO Data | Orange (EMS COM) | Data | Driver Kick, red 36 pin plug (EM11), pin 36 |
| Power Lock | White (passenger switch) | - | ICU Junction Block-dash fuse box, white 58 pin plug (A), pin 28 |
| Power Unlock | Orange (passenger switch) | - | ICU Junction Block-dash fuse box, white 58 pin plug (A), pin 55 |
| Lock Motor | Gray | Reverse | ICU Junction Block-dash fuse box, white 58 pin plug (A), pin 58 |
| Driver Unlock Motor | White | Reverse | ICU Junction Block-dash fuse box, white 58 pin plug (A), pin 11 |
| Passenger Unlock Motor | White | Reverse | ICU Junction Block-dash fuse box, white 58 pin plug (A), pin 30 |
| Factory Alarm Arm | Brown (key lock) | Open | ICU Junction Block-dash fuse box, white 58 pin plug (A), pin 47 |
| Factory Alarm Disarm | (same as factory alarm arm) | - | |
| Parking Lights | Green/Black (L); Brown/Black (R) | + | ICU Junction Block-dash fuse box, white 58 pin plug (A), pin 6 (L); pin 5 (R) |
| Parking Lights - | Gray | - 1680 Ohms | Headlight-Wiper Switch, white 16 pin plug, pin 14 |
| Parking Lights MUX | Gray | MUX | Headlight-Wiper Switch, white 16 pin plug, pin 14 |
| Hazards | White | - | ICU Junction Block-dash fuse box, rear, white 58 pin plug (F), pin 28 |
| Turn Signal (Left) | Orange (LF); Blue/Orange (LR) | + | ICU Junction Block-dash fuse box, red 58 pin plug (C), pin 20 (LF); white 58 pin plug (A), pin 23 (LR) |
| Turn Signal (Right) | Orange (RF); White/Orange (RR) | + | ICU Junction Block-dash fuse box, red 58 pin plug (C), pin 24 (RF); white 58 pin plug (A), pin 24 (RR) |
| Headlight | Blue | - | Headlight-Wiper Switch, white 16 pin plug, pin 15 |
| AutoLights | Gray | Cut | Headlight-Wiper Switch, white 16 pin plug, pin 14 |
| Reverse Light | Blue | + | ICU Junction Block-dash fuse box, white 58 pin plug (A), pin 31 |
| Left Front Door Trigger | Blue | - | ICU Junction Block-dash fuse box, white 32 pin plug (D), pin 19 |

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| Right Front Door Trigger | Yellow | - | ICU Junction Block-dash fuse box, white 58 pin plug (A), pin 46 |
| Left Rear Door Trigger | Blue | - | ICU Junction Block-dash fuse box, white 58 pin plug (A), pin 56 |
| Right Rear Door Trigger | Pink | - | ICU Junction Block-dash fuse box, white 58 pin plug (A), pin 44 |
| Dome Light | Yellow | - | ICU Junction Block-dash fuse box, rear, white 58 pin plug (F), pin 17 |
| Trunk/Hatch Pin | White | - | ICU Junction Block-dash fuse box, white 58 pin plug (A), pin 45 |
| Hood Pin | Brown | - | ICU Junction Block-dash fuse box, red 58 pin plug (C), pin 35 |
| Power Liftgate | Green/Black | - | Power Liftgate Switch, white 16 pin plug, pin 13 |
| Trunk/Hatch Release | Green (rear handle switch) | - | ICU Junction Block-dash fuse box, white 58 pin plug (A), pin 57 |
| Trunk Release Motor | Blue/White | + | ICU Junction Block-dash fuse box, white 58 pin plug (A), pin 4 |
| Fuel Door Release | Brown | - | Fuel Lid Opener Switch, white 16 pin plug, pin 8 |
| Tachometer | Gray | AC | Driver Kick, red 36 pin plug (EM11), pin 16 |
| Tachometer 2 | Blue/Orange (2.0L) | AC | Camshaft Position Sensor, engine driver side rear, gray 3 pin plug, pin 3 |
| Tachometer 3 | Pink/Black (3.3L) | AC | Camshaft Position Sensor, engine driver side rear, black 3 pin plug, pin 2 |
| Fuel Pump | Green | + | Inline Connector below harness to driver taillight, white 24 pin plug (FF01), pin 13 |
| Rear Defroster | Brown | - Latched | ICU Junction Block-dash fuse box, white 32 pin plug (D), pin 26 |
| Left Front Heated Seat | Red | - | Console Switch, white 32 pin plug, pin 15 or 16 |
| Right Front Heated Seat | Gray | - | Console Switch, white 32 pin plug, pin 2 or 1 |
| Speed Sense | White | AC | Radio, white 38 pin plug, pin 38 |

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| Brake Wire | Green/Black | + | Brake Switch, black 6 pin plug, pin 5 |
| Brake Wire 2 | Green (alternate location) | + | ICU Junction Block-dash fuse box, red 58 pin plug (C), pin 25 |
| Parking Brake | Black (w/o electric parking brake) | - | ICU Junction Block-dash fuse box, red 58 pin plug (C), pin 37 |
| Horn Trigger | White | - | Horn Switch-Clock Spring, white 14 pin plug, pin 8 |
| Wipers | Blue | + | Passenger Kick, white 60 pin plug (EM21), pin 16 |
| Left Front Window (Up/Down) | (motor is part of module) | | |
| Right Front Window (Up/Down) | (motor is part of module) | | |
| Left Rear Window (Up/Down) | Yellow/Black - Red/Black | A | Left Rear Window Switch, white 18 pin plug, pins 13 - 15 |
| Right Rear Window (Up/Down) | Yellow/Black - Red/Black | A | Right Rear Window Switch, white 18 pin plug, pins 13 - 15 |
| Sun Roof (Open/Close) | Yellow and Orange (open) (functions with ignition on only) | Both - | Left Front Pillar, white 44 pin plug (MR11), pins 18, 22 |
| Sun Roof (Limit/Close) | Green and Orange (close) (functions with ignition on only) | Both - | Left Front Pillar, white 44 pin plug (MR11), pins 20, 22 |
| Memory Seat 1 | Green/Orange | - Resistor | Memory Switch, white 6 pin plug, pin 3 |
| Memory Seat 2 | (same as memory seat 1) | - Resistor | |
| Radio 12V | Red | + | Radio, white 35 pin plug, pins 10, 11 |
| Radio Ground | Black | - | Radio, white 35 pin plug, pins 12, 13 |
| Radio Ignition | Blue | + | Radio, white 35 pin plug, pin 22 |
| Radio Illumination | Yellow/Orange (parking lights); White/Black (dimmer) | +,- | Radio, white 35 pin plug, pin 6 (parking lights); pin 19 (dimmer) |
| Factory Amp Turn-on | (M-CAN) | | |
| Power Antenna | Red | + | Radio, white 35 pin plug, pin 5 |
| Left Front Speaker (+/-) | Red - Blue | +,- | Radio, white 38 pin plug, pins 13 - 14 |
| Right Front Speaker (+/-) | Green - Orange | +,- | Radio, white 38 pin plug, pins 16 - 15 |

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| Left Rear Speaker (+/-) | White - Black | +,- | Radio, white 38 pin plug, pins 1 - 2 |
| Right Rear Speaker (+/-) | Brown - White | +,- | Radio, white 38 pin plug, pins 28 - 27 |
| Left Front Speaker - With Amp | Red - Blue | +,- | Amplifier in trunk right side, red 28 pin plug, pins 12 - 13 or blue 28 pin plug, pins 4 - 19 |
| Right Front Speaker - With Amp | Green - Orange | +,- | Amplifier in trunk right side, red 28 pin plug, pins 14 - 15 or blue 28 pin plug, pins 3 - 18 |
| Left Front Tweeter - With Amp | Green - Orange (premium system) | +,- | Amplifier in trunk right side, red 28 pin plug, pins 15 - 28 |
| Right Front Tweeter - With Amp | Brown - White (premium system) | +,- | Amplifier in trunk right side, red 28 pin plug, pins 14 - 27 |
| Left Rear Speaker - With Amp | White - Black or Black - White | +,- | Amplifier in trunk right side, blue 28 pin plug, pins 1 - 2 or 13 - 26 |
| Right Rear Speaker - With Amp | Brown - White or Orange - Green | +,- | Amplifier in trunk right side, blue 28 pin plug, pins 3 - 4 or 12 - 25 |
| Left Rear Tweeter - With Amp | White - Black (tweeter/midrange) (premium system) | +,- | Amplifier in trunk right side, blue 28 pin plug, pins 15 - 28 |
| Right Rear Tweeter - With Amp | Brown - White (tweeter/midrange) (premium system) | +,- | Amplifier in trunk right side, blue 28 pin plug, pins 14 - 27 |
| Center Channel - With Amp | Green - Orange | +,- | Amplifier in trunk right side, red 28 pin plug, pins 25 - 26 or 13 - 26 |
| Subwoofer - With Amp | Red - Blue (L); Brown - White (R) | +,- | Amplifier in trunk right side, blue 28 pin plug, pins 16 - 17 (L); pins 18 - 19 (R) |
| Subwoofer - With Amp 2 | Brown - White (L); Blue - Red (R) (premium system) | +,- | Amplifier in trunk right side, blue 28 pin plug, pins 2 - 17 (L); pins 1 - 16 (R) |
| Aux. Audio Input Left (+/-) | Green - Brown | +,- | Radio, white 38 pin plug, pins 24 - 25 |
| Aux. Audio Input Right (+/-) | White - Brown | +,- | Radio, white 38 pin plug, pins 10 - 25 |
| Rearview Camera Video | White - Green (w/o surround view monitor) | +,- | Radio, white 38 pin plug, pins 7 - 21 |

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What Fits

| Item | Size | Depth | Location |
|------|------|-------|----------|
|------|------|-------|----------|