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KIA Niro (2017-2019..) fuses and relays

Advertisements



*The subcompact crossover KIA Niro is available from 2017 to the present. In this article, you will find fuse box diagrams of **KIA Niro 2017, 2018 and 2019** (+ Hybrid and Plug-in Hybrid versions), get information about the location of the fuse panels inside the car, and learn about the assignment of each fuse (fuse layout) and relay.*

Fuse Layout KIA Niro 2017-2019...



Cigar lighter (power outlet) fuses are located in the Engine compartment fuse box (see fuses “POWER OUTLET 1”, “POWER OUTLET 2” and “POWER OUTLET 3”).

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Inside the fuse/relay panel covers, you can find the label describing fuse/relay name and capacity. Not all fuse panel descriptions in this manual may be applicable to your vehicle.

Fuse box diagrams

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2019

Instrument panel (Hybrid)

Assignment of the fuses in the Instrument panel (Hybrid) (2019)

Name	Amp rating	Circuit Protected
MODULE 5	10A	Electro Chromic Mirror, Audio/Video & Navigation Head Unit, Audio, Driver IMS (Integrated memory system) Module, VESS (Virtual Engine Sound System) Unit, Shift Lever Indicator, Air Conditioner Control Module, Rear Seat Warmer Control Module, Front Air Ventilation Seat Control Module, Front Seat Warmer Control Module, Head Lamp Leveling Device Actuator LH/RH, Auto Head Lamp Leveling Device Module, Crash Pad Switch
MODULE 4	10A	Lane Keeping Assist Control Module, Crash Pad Switch, AEB Module, Blind Spot Detection Radar LH/RH, AFLS (Adaptive Front Lighting System) Unit
INTERIOR LAMP	10A	Front Vanity Lamp LH/RH, Room Lamp, Overhead Console Lamp, Ignition Key ILL. & Door Warning Switch, Luggage Lamp
A/BAG	15A	SRS (Supplemental Restraint System) Control Module, Passenger Occupant Detection Sensor
IG 1	25A	Engine Room Junction Block (Fuse - DCT4, HPCU2, ACTIVE HYDRAULIC BOOSTER3, ECU3)
CLUSTER	10A	Instrument Cluster
MODULE 3	10A	BCM (Body Control Module), DCT (Dual Clutch Transmission) Shift Lever, Stop Lamp Switch, Driver Door Module, Passenger Door Module
MEMORY 2	7.5A	Active Air Flap Unit
MODULE 8	10A	Active Air Flap Unit, Electric Water Pump (Engine), Engine Room Junction Block (Battery C/Fan Relay), BMS (Battery

Name	Amp rating	Circuit Protected
		Management System) Control Module
A/BAG IND	7.5A	Air Conditioner Control Module, Instrument Cluster
START	7.5A	[Without Smart Key & Without Immobilizer] Burglar alarm Relay [With Smart Key/With Immobilizer] Inhibitor Switch
MODULE 2	10A	Engine Room Junction Block (Power Outlet Relay), Wireless Charger, BCM (Body Control Module), USB Charger, Smart Key Control Module, Audio, BMS (Battery Management System) Control Module, Audio/Video & Navigation Head Unit, Driver Power Outside Mirror Switch, AMP (Amplifier)
PDM 3	7.5A	[Without Smart Key] Immobilizer Module [With Smart Key] Smart Key Control Module
MEMORY 1	10A	Instrument Cluster, Driver IMS (Integrated memory system) Module, BCM (Body Control Module), Air Conditioner Control Module, Auto Light & Photo Sensor, Driver Door Module, Passenger Door Module, ICM Relay Box (Outside Mirror Folding/Unfolding Relay), Wireless Charger
MULTI MEDIA	15A	Audio, Audio/Video & Navigation Head Unit
EEWP	10A	Electric Water Pump (HEV)
MDPS	7.5A	MDPS (Motor Driven Power Steering) Unit
TAIL GATE	10A	Tail Gate Relay, ICM Relay Box (Fuel Filler Door Relay), Fuel Filler Switch
PDM 1	15A	Smart Key Control Module
MODULE 7	7.5A	Front Seat Warmer Control Module, AC Inverter (220V), Front Air Ventilation Seat Control Module, Rear Seat Warmer Module, AC Inverter Module

Name	Amp rating	Circuit Protected
WIPER (REAR)	15A	Engine Room Junction Block (Wiper RR Relay), Rear Wiper Motor
HEATED STEERING	15A	BCM (Body Control Module)
SUNROOF	20A	Sunroof Motor
P/WINDOW RH	25A	Power Window (RH) Relay, Passenger Safety Power Window Module
P/WINDOW LH	25A	Power Window (LH) Relay, Driver Safety Power Window Module
PDM 2	7.5A	[Without Smart Key] Immobilizer Module [With Smart Key] Smart Key Control Module, Start/Stop Button Switch
BRAKE SWITCH	7.5A	Stop Lamp Switch, Smart Key Control Module
A/CON	7.5A	Air Conditioner Control Module, Electronic Air Conditioner Compressor, Ionizer, Engine Room Junction Block (Blower Relay, PTC Heater1 Relay, PTC Heater2 Relay)
WASHER	15A	Multifunction Switch
S/HEATER (FRT)	25A	Front Seat Warmer Control Module, Front Air Ventilation Seat Control Module
BATTERY MANAGEMENT	10A	BMS (Battery Management System) Control Module
P/SEAT (DRV)	30A	[Without IMS] Driver Seat Manual Switch [With IMS] Driver Seat Manual Switch, Driver IMS (Integrated memory system) Module
AMP	30A	AMP (Amplifier)
AMS	10A	Not Used

Name	Amp rating	Circuit Protected
MODULE 1	10A	Data Link Connector, AEB Module, Hazard Switch, Driver/Passenger Door Module, Driver/Passenger Smart Key Outside Handle, Key Interlock, Natural Vacuum Leak Detection
DOOR LOCK	20A	Door Lock/Unlock Relay, ICM Relay Box (Two Turn Unlock Relay)
WIPER 2 (FRT)	10A	Wiper Motor, Engine Room Junction Block (Front Wiper (Low) Relay), ECM (Engine Control Module), BCM (Body Control Module)
MODULE 6	7.5A	BCM (Body Control Module), Smart Key Control Module
S/HEATER (REAR)	25A	Rear Seat Warmer Control Module
HEATED MIRROR	10A	Driver Power Outside Mirror, Passenger Power Outside Mirror, Air Conditioner Control Module
WIPER1 (FRT)	30A	Wiper Motor, Engine Room Junction Block (Front Wiper (Low) Relay)

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Instrument panel (plug-in hybrid)

Assignment of the fuses in the Instrument panel (plug-in hybrid) (2019)

Name	Amp rating	Circuit Protected
MODULE 5	10A	Electro Chromic Mirror, Audio/Video & Navigation Head Unit, Audio, Driver IMS (Integrated memory system) Module, VESS (Virtual Engine Sound System) Unit, Air Conditioner Control Module, Rear Seat Warmer Control Module, Front Air Ventilation Seat Control Module, Front Seat Warmer Control Module, Head Lamp Leveling Device Actuator LH/RH, Auto Head Lamp Leveling Device Module, Crash Pad Switch
MODULE 4	10A	Lane Keeping Assist Control Module, Crash Pad Switch, AEB Module, Blind Spot Detection Radar Left Handle side/Right Handle side
INTERIOR LAMP	10A	Front Vanity Lamp LH/RH, Room Lamp, Overhead Console Lamp, Ignition Key ILL. & Door Warning Switch, Luggage Lamp, Wireless Charger

Name	Amp rating	Circuit Protected
A/BAG	15A	SRS (Supplemental Restraint System) Control Module, Passenger Occupant Detection Sensor
IG 1	25A	Engine Room Junction Block (Fuse - DCT4, HPCU2, ACTIVE HYDRAULIC BOOSTER3)
CLUSTER	10A	Instrument Cluster
MODULE 3	10A	BCM (Body Control Module), DCT (Dual Clutch Transmission) Shift Lever, Stop Lamp Switch, Driver Door Module, Passenger Door Module
IG3 2	10A	Fuel Filler Door & Battery Charger Switch, Instrument Cluster, Audio, Charger Indicator, Integrated Gateway Power control Module, Audio/Video & Navigation Head Unit
MEMORY 2	7.5A	Active Air Flap Unit
MODULE 8	10A	Active Air Flap Unit, Electric Water Pump (Engine)
A/BAG IND	7.5A	Air Conditioner Control Module, Instrument Cluster
START	7.5A	SMK UNIT, IGN SW, INHIBITOR SW
MODULE 2	10A	Engine Room Junction Block (Power Outlet Relay), Wireless Charger, BCM (Body Control Module), USB Charger, Smart Key Control Module, Audio, Audio / Video & Navigation Head Unit, Power Outside Mirror Switch, AMP (Amplifier)
PDM3	7.5A	Immobilizer Module, Smart Key Control Module
MEMORY 1	10A	Instrument Cluster, Driver IMS (Integrated memory system) Module, BCM (Body Control Module), Air Conditioner Control Module, Auto Light & Photo Sensor, Driver Door Module, Passenger Door Module, ICM Relay Box (Outside Mirror Folding/Unfolding Relay)
MULTI MEDIA	15A	Audio, Audio / Video & Navigation Head Unit

Name	Amp rating	Circuit Protected
IG3 4	10A	OBC (On-Board Charger) Unit, TCM (Transmission Control Module), ECM (Engine Control Module), HPCU (Hybrid Power Control Unit)
IG3 3	10A	Electric Water Pump (PHEV)
IG3 5	15A	Transaxle Range Switch, BMS (Battery Management System) Control Module, Engine Room Junction Block (Battery C/Fan Relay)
IG3 1	20A	ICM Relay Box (IG3 #1, IG3 #2, IG3 #3 Relay)
MDPS	7.5A	MDPS (Motor Driven Power Steering) Unit
TAIL GATE OPEN	10A	Tail Gate Relay, ICM Relay Box (Fuel Filler Door Relay, Charger Connector Lock/Unlock Relay), Fuel Filler & Battery Charger Switch, Charge Connector Lamp
PDM 1	15A	Smart Key Control Module
MODULE 7	7.5A	Front Seat Warmer Control Module, AC Inverter (220V), Front Air Ventilation Seat Control Module, Rear Seat Warmer Module, AC Inverter Module, C_FAN_BLDC
WIPER (REAR)	15A	Engine Room Junction Block (Wiper RR Relay), Rear Wiper Motor
HEATED STEERING	15A	BCM (Body Control Module)
SUNROOF	20A	Sunroof Motor
P/WINDOW RH	25A	Power Window (RH) Relay, Power Window Main Switch, Passenger Power Window Switch, Rear Power Window Switch RH, Passenger Safety Power Window Module
P/WINDOW LH	25A	Power Window (LH) Relay, Power Window Main Switch, Rear Power Window Switch LH, Driver Safety Power Window

Name	Amp rating	Circuit Protected
		Module
PDM 2	7.5A	Immobilizer Module, Smart Key Control Module, Start/Stop Button Switch
BRAKE SWITCH	7.5A	Stop Lamp Switch, Smart Key Control Module
OBC	10A	OBC (On-Board Charger) Unit
A/CON	7.5A	Air Conditioner Control Module, Electronic Air Conditioner Compressor, Ionizer, Engine Room Junction Block (Blower Relay, PTC Heater1 Relay, PTC Heater2 Relay)
WASHER	15A	Multifunction Switch
S/HEATER (FRT)	25A	Front Seat Warmer Control Module, Front Air Ventilation Seat Control Module
BATTERY MANAGEMENT	10A	BMS (Battery Management System) Control Module
P/SEAT (DRV)	30A	Driver Seat Manual Switch, Driver IMS (Integrated memory system) Module
AMP	30A	AMP (Amplifier)
AMS	10A	Battery Sensor
MODULE 1	10A	Data Link Connector, AEB Module, Hazard Switch, Driver/Passenger Door Module, Driver/Passenger Smart Key Outside Handle
DOOR LOCK	20A	Door Lock/Unlock Relay, ICM Relay Box (Two Turn Unlock Relay)
WIPER2 (FRT)	10A	Wiper Motor, Engine Room Junction Block (Front Wiper (Low) Relay), ECM (Engine Control Module), BCM (Body Control Module)

Name	Amp rating	Circuit Protected
MODULE 6	7.5A	BCM (Body Control Module), Smart Key Control Module
S/HEATER (REAR)	25A	Rear Seat Warmer Control Module
HEATED MIRROR	10A	Driver Power Outside Mirror, Passenger Power Outside Mirror, Air Conditioner Control Module
WIPER 1 (FRT)	30A	Wiper Motor, Engine Room Junction Block (Front Wiper (Low) Relay)

Engine compartment (hybrid)

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Assignment of the fuses in the Engine compartment (Hybrid) (2019)

Name	Amp rating	Circuit Protected
B+ 5	60A	Fuse - BATTERY C/FAN, HORN, B/ALARM HORN, ECU2, Engine Control Relay
B+ 2	60A	Instrument Panel Junction Block (Fuse - S/HEATER (REAR))
B+ 3	60A	Instrument Panel Junction Block
B+ 4	50A	Instrument Panel Junction Block (Fuse - BATTERY MANAGEMENT, P/WINDOW (LH), PA/VIN-DOW (RH), TAIL GATE OPEN, SUNROOF, AMP, S/HEATER (FRT), P/SEAT (DRV))
COOLING FAN	60A	Cooling Fan Relay
REAR HEATED	50A	Rear Heated Relay
BLOWER	40A	Blower Relay
IG 1	40A	[Without Smart Key] Ignition Switch, [With Smart Key] PDM1 (ACC) Relay, PDM2 (IG1) Relay
IG 2	40A	[Without Smart Key] Ignition Switch, [With Smart Key] PDM3 (IG2) Relay
MDPS	80A	MDPS (Motor Driven Power Steering) Unit
PTC HEATER 1	50A	PTC Heater 1 Relay
PTC HEATER 2	50A	PTC Heater 2 Relay
CLUTCH ACTUATOR	40A	Clutch Actuator (HEV)
MAIN	150A	Fuse - POWER OUTLET1, H/LAMP HI, INVERTER, ACTIVE HYDRAULIC BOOSTER1, ACTIVE HYDRAULIC BOOSTER2, WIPER RR, Low Voltage DC-DC Converter
POWER OUTLET 3	20A	Power Outlet #2

Name	Amp rating	Circuit Protected
POWER OUTLET 2	20A	Power Outlet #1
DOT 3	15A	TCM (Transmission Control Module)
HPCU 1	10A	HPCU (Hybrid Power Control Unit)
EWP	10A	Electric Water Pump (Engine)
FUEL PUMP	20A	Fuel Pump Relay
B+ 1	40A	Instrument Panel Junction Block (Fuse - BRAKE SWITCH, PDM1, PDM2, MODULE1, DOOR LOCK, Leak Current Autocut Device)
DOT 2	40A	TCM (Transmission Control Module)
DOT 1	40A	TCM (Transmission Control Module)
WIPER RR	15A	Wiper RR Relay
H/LAMP HI	10A	H/Lamp HI Relay
ACTIVE HYDRAULIC BOOTER 1	40A	Integrated Brake Actuation Unit, Multipurpose Check Connector
ACTIVE HYDRAULIC BOOTER 2	30A	Integrated Brake Actuation Unit
INVERTER	30A	AC Inverter Module
POWER OUTLET 1	40A	Power Outlet Relay
B/UP LAMP	10A	Electro Chromic Mirror, Back-Up Lamp LH/RH
ECU 3	10A	ECM (Engine Control Module)

Name	Amp rating	Circuit Protected
HPCU 2	15A	HPCU (Hybrid Power Control Unit), Clutch Actuator (HEV)
ACTIVE HYDRAULIC BOOTER 3	10A	Integrated Brake Actuation Unit, Multipurpose Check Connector
DOT 4	15A	DCT (Dual clutch transmission) Shift Lever, TCM (Transmission Control Module), Inhibitor Switch
SENSOR 3	10A	Fuel Pump Relay, Oil Control Valve #1/#2 (Intake/Exhaust), Camshaft Position Sensor #1/#2 (Intake/Exhaust)
BATTERY C/FAN	15A	Battery C/Fan Relay
HORN	20A	Horn Relay
SENSOR 2	10A	Purge Control Solenoid Valve, Cooling Fan Relay, Canister Close Valve, Mass Air Flow Sensor
ECU 1	20A	ECM (Engine Control Module)
SENSOR 1	15A	Oxygen Sensor (Up), Oxygen Sensor (Down)
IGN COIL	20A	Ignition Coil #1/#2/#3/#4
ECU 2	15A	ECM (Engine Control Module)
B/ALARM HORN	10A	Burglar Alarm Horn Relay

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Engine compartment (plug-in hybrid)

Assignment of the fuses in the Engine compartment (Plug-in Hybrid) (2019)

Name	Amp rating	Circuit Protected
B+ 5	60A	Fuse - BATTERY C/FAN, HORN, B/ALARM HORN, ECU2, Engine Control Relay

Name	Amp rating	Circuit Protected
B+ 2	60A	Instrument Panel Junction Block (Fuse - S/HEATER (REAR))
B+ 3	60A	Instrument Panel Junction Block
B+ 4	50A	Instrument Panel Junction Block (Fuse - BATTERY MANAGEMENT, P/WINDOW (LH), P/WIN-DOW (RH), TAIL GATE OPEN, SUNROOF, AMP, S/HEATER (FRT), P/SEAT (DRV), IG3 1, OBC, AMS)
COOLING FAN	60A	Cooling Fan Relay
REAR HEATED	50A	Rear Heated Relay
BLOWER	40A	Blower Relay
IG 1	40A	[Without Smart Key] Ignition Switch, [With Smart Key] PDM1 (ACC) Relay, PDM2 (IG1) Relay
IG 2	40A	[Without Smart Key] Ignition Switch, [With Smart Key] PDM3 (IG2) Relay
MDPS	80A	MDPS (Motor Driven Power Steering) Unit
PTC HEATER 1	50A	PTC Heater 1 Relay
PTC HEATER 2	50A	PTC Heater 2 Relay
CLUTCH ACTUATOR	40A	Clutch Actuator (PHEV)
MAIN	150A	Fuse - POWER OUTLET1, H/LAMP HI, INVERTER, ACTIVE HYDRAULIC BOOSTER1, ACTIVE HYDRAULIC BOOSTER2, WIPER RR, Low Voltage DC-DC Converter
POWER OUTLET 3	20A	Power Outlet #2
POWER OUTLET 2	20A	Power Outlet #1

Name	Amp rating	Circuit Protected
DOT 3	15A	TCM (Transmission Control Module)
HPCU 1	10A	HPCU (Hybrid Power Control Unit)
EWP	10A	Electric Water Pump (Engine)
FUEL PUMP	20A	Fuel Pump Relay
B+ 1	40A	Instrument Panel Junction Block (Fuse - BRAKE SWITCH, PDM1, PDM2, MODULE1, DOOR LOCK, Leak Current Autocut Device)
DOT 2	40A	TCM (Transmission Control Module)
DOT 1	40A	TCM (Transmission Control Module)
WIPER RR	15A	Wiper RR Relay
H/LAMP HI	10A	H/Lamp HI Relay
ACTIVE HYDRAULIC BOOTER 1	40A	Integrated Brake Actuation Unit, Multipurpose Check Connector
ACTIVE HYDRAULIC BOOTER 2	30A	Integrated Brake Actuation Unit
INVERTER	30A	AC Inverter Module
POWER OUTLET 1	40A	Power Outlet Relay
B/UP LAMP	10A	Electro Chromic Mirror, Back-Up Lamp LH/RH
ECU 3	10A	ECM (Engine Control Module)
HPCU 2	15A	HPCU (Hybrid Power Control Unit), Clutch Actuator (PHEV)

Name	Amp rating	Circuit Protected
ACTIVE HYDRAULIC BOOTER 3	10A	Integrated Brake Actuation Unit, Multipurpose Check Connector
DOT 4	15A	DCT(Dual clutch transmission) Shift Lever, TCM (Transmission Control Module), Inhibitor Switch
SENSOR 3	10A	Fuel Pump Relay, Oil Control Valve #1/#2 (Intake/Exhaust), Camshaft Position Sensor #1/#2 (Intake/Exhaust)
BATTERY C/FAN	15A	Battery C/Fan Relay
HORN	20A	Horn Relay
SENSOR 2	10A	Purge Control Solenoid Valve, Cooling Fan Relay, Canister Close Valve, Mass Air Flow Sensor
ECU 1	20A	ECM (Engine Control Module)
SENSOR 1	15A	Oxygen Sensor (Up), Oxygen Sensor (Down)
IGN COIL	20A	Ignition Coil #1/#2/#3/#4
ECU 2	15A	ECM (Engine Control Module)
B/ALARM HORN	10A	Burglar Alarm Horn Relay

Learn more:



- How to check the fuses?
- How to replace a blown fuse?
- Why do car fuses blow?
- Types of automotive fuses

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Alfa Romeo

Audi

BMW

Buick

Cadillac

Chevrolet

Chrysler

Citroën

Dodge

Fiat

Ford

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Hyundai

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