



Circuit (Smart Junction Box)

NO.	(A)	Symbol	Fuse Name	Circuit Protected	NO.	(A)	Symbol	Fuse Name	Circuit Protected
F2	10A		SMART KEY 2	Start/Stop Button Switch, Immobilizer Module	F19	20A		POWER OUTLET 1	Rear Power Outlet, Cigarette Lighter
F3	15A		MULTI MEDIA	DC-DC Converter (Audio), A/V & Navigation Head Unit, Audio	F20	10A		MODULE 6	A/V & Navigation Head Unit, DC-DC Converter (Audio/AMP), Audio, Clock, Smart Key Control Module, BCM, E/R Fuse & Relay Box (RLY. 7), AMP, Power Outside Mirror Switch
F4	7.5A		MODULE 3	Front Seat Warmer Switch, Head Lamp Leveling Device Switch, Navigation, Amp, Rear Seat Warmer ECU, Auto Head Lamp Leveling Device Switch ECU, Heater Control Unit	F21	15A		A/BAG	SBR Control Module, Seat Belt Reminder IND., Door Lock & PAB ON/OFF IND., Instrument Cluster
F5	7.5A		CLUSTER	Instrument Cluster, DC-DC Converter (Audio)	F22	25A		PWDW LH	Rear Safety Power Window Module LH, Driver/Passenger Safety Power Window Module, Power Window LH Relay
F6	7.5A		MDPS	MDPS	F23	10A		HTD MIRR	A/C Control Module, ECM/PCM, Driver/Passenger Power Outside Mirror
F7	7.5A		START	ICM Relay Box (B/Alarm Horn Relay), Ignition Lock Switch [WT - Transaxle Range Switch], [MT - E/R Fuse & Relay Box (RLY. 10)], ECM/PCM, Smart Key Control Module	F25	7.5A		MODULE 5	Portable Lamp, Rear Seat Warmer Module, Panorama Sunroof, Driver/Passenger CCS Control Module, Seat Warmer Control Module, Passenger Seat Warmer Module, E/R Fuse & Relay Box (RLY. 8)
F8	10A		INTERIOR LAMP	Driver/Passenger Power Outside Mirror, Driver/Passenger Foot Lamp, Ignition Key ILL. & Door Warning Switch, Overhead Console Lamp, Room Lamp, Vanity Lamp LH/RH, Rear Personal Lamp LH/RH, Luggage Lamp	F26	7.5A		MODULE 7	BCM, Smart Key Control Module
F9	20A		SMART KEY 1	Smart Key Control Module	F27	15A		HTD STRG	Steering Wheel Heater
F10	7.5A		MEMORY 2	RF Receiver	F29	15A		S/HEATER RR	Rear Seat Warmer Module
F11	10A		ECU	Smart Key Control Module, Immobilizer Module, Vehicle Speed Sensor, ECM/PCM, Air Flow Sensor (D4FD), E/R Fuse & Relay Box (RLY. 10) (D4FD)	F30	25A		AMP	DC-DC Converter (AMP), AMP
F12	10A		ABS	ABS/ESP Control Module, Stop Lamp Switch	F31	20A		SUNROOF	Panorama Sunroof
F13	15A		TCU	TCM (D4FD), Transaxle Range Switch(A/T), E/R Fuse & Relay Box (Fuse - F27)[MT]	F32	20A		S/HEATER FRT	Driver/Passenger CCS Control Module, Seat Warmer Control Module, Passenger Seat Warmer Module, Seat Vent
F14	7.5A		MODULE 4	BCM	F33	7.5A		MODULE 2	ICM Relay Box (Turn Signal Lamp Sound Relay, Folding/Unfolding Relay), Key Solenoid, Sport Mode Switch, Console Switch LH/RH, Rear Power Window Switch LH/RH
F15	7.5A		A/CON 2	A/C Control Module	F34	7.5A		A/CON 1	Diesel Box (RLY. 2, RLY. 3), E/R Fuse & Relay Box (RLY. 2), A/C Control Module, Cluster Ionizer
F18	10A		MEMORY 1	Instrument Cluster, Auto Light & Photo Sensor, Tire Pressure Monitoring Module, Ultrasonic Intrusion Protection Sensor, A/C Control Module, Data Link Connector, Siren Control Module, Clock, BCM	F35	15A		WIPER	Rear Wiper Motor, ICM Relay Box (Rear Wiper Relay), Multifunction Switch
F18	7.5A		MODULE 1	E/R Fuse & Relay Box (RLY. 12)(D4FD), Fuel Filter Warning Sensor (D4FD), Clutch Sensor (MT), Front Parking Assist Sensor Center LH/RH, Front Parking Assist Sensor LH/RH, Rear Parking Assist Sensor Center LH/RH, Rear Parking Assist Sensor LH/RH, Parking Assist Buzzer, Electric Parking Brake Module, Crash Pad Switch, Lane Departure Warning Module, Tire Pressure Monitoring Module, Multifunction Switch	F36	25A		PWDW RH	Rear Safety Power Window Module RH, Driver/Passenger Safety Power Window Module, Power Window RH Relay
					F37	30A		P/SEAT DRV	Driver Seat Manual Switch
					F38	10A		FOG LAMP RR	ICM Relay Box (Rear Fog Lamp Relay)
					F39	20A		DR LOCK	Door Lock/Unlock Relay, ICM Relay Box (Dead Lock Relay)

⚠ USE THE DESIGNATED FUSE AND RELAY ONLY

Relay Box (Engine Compartment) Repair procedures

Inspection 1. Disconnect the negative (-) battery terminal. 2. Pull out the relay from the engine compartment relay box. P ...

Relay Box (Passenger Compartment) Description and operation

Description Smart Junction Box(SJB) 1. General function : Interior Junction Box + some functions of BCM It controls loads with CAN communication and IP ...

Other information:

[Kia Carens RP \(2013-2018\) Service Manual: Components and components location](#)

Component Location 1. Cooling fan relay (low) 2. Blower relay 3. IG2 relay 4. Deicer relay 5. Cooling fan relay (high) 6. Rear defogger relay 7. Power outlet relay 8. Head lamp washer relay 9. ACC relay 10. Start relay 11 ...

[Kia Carens RP \(2013-2018\) Service Manual: Repair procedures](#)

Inspection Component Inspection 1. Remove the ignition lock switch. 2. Push the ignition lock switch in the direction of the arrow to make sure that continuity between terminals. (refer to the table below) ...

Copyright © www.kicaman.com 2015-2023

