E/R Fuse & Relay Box (GSL) FUSE PULLER RLY. 1 [£] E42 RLY. 2 88 EC11 RLY. 3 \circ EMS BOX E44 RLY. 4 w E48 E50 E46 E47 E49 E51 E45 RLY. 6 RR HTD RLY. 7 POWER OUTLET RLY. 8 RLY. 10 RLY, 11 9 (G1) RLY. 5 I(P \$ IG1 RLY, 12 MULTI FUSE B (P) œ Relay NO. Symbol Relay Name Type (E) C/FAN 1 RELAY PLUG MICRO BLOWER RELAY PLUG MICRO E42 88 1,960) E43 PDM3 (IG2) RELAY PLUG MICRO E44 W DEICER RELAY PLUG MICRO E45 \$ C/FAN 2 RELAY PLUG MINI RR HTD E46 RR HTD RELAY PLUG MICRO E47 POWER OUTLET POWER OUTLET 2 RELAY PLUG MICRO H/LAMP WASHER RELAY PLUG MICRO E48 1 2 (A00) E49 PDM1 (ACC) RELAY PLUG MICRO C START RELAY PLUG MICRO E50 Ĉ E51 PDM2 (IG1) RELAY PLUG MICRO E52G F/PUMP F/PUMP RELAY PLUG MICRO

Circuit (E/R Fuse & Relay Box : GSL)

Fuse No.		(A)	Symbol	Fuse Name	Circuit Protected		
	F1	80A	Θ,	MDPS	MDPS Unit		
	F2	60A	B+1 (===3)	B+1	Smart Junction Box (IPS 1, IPS 2, IPS 3, IPS 4, Fuse - F2/F9/F22/F29/F36)		
	F3	40A	IG2	IG2	RLY. 9 (Start Relay), Ignition Switch (W/O Button Start), RLY. 3 (PDM 3 (IG2) Relay, With Button Start)		
MULTI	F4	40A	¹@⊚	ABS1	ABS/ESP Control Module, Multipurpose Check Connector		
FUSE	F5	40A	RR HTD	RR HTD	RLY. 6 (Rear Defogger Relay)		
	F6	40A	88	BLOWER	RLY. 2 (Blower Relay)		
	F7	40A	²⊛	ABS2	ABS/ESP Control Module, Multipurpose Check Connector		
	F8	60A	D+2 == \$	B+2	Smart Junction Box (IPS 5, IPS 6, IPS 7, IPS 8, Fuse - F31/F37/F38)		
	F10	50A	** <u>=</u> =	B+4	E/R Fuse & Relay Box (Fuse - F29/F30/F31)		
	F12	30A	'(P)	EPB 1	Electric Parking Brake Module		
	F13	40A	25	C/FAN	RLY. 1 (C/FAN 1 Relay), RLY. 5 (C/FAN 2 Relay)		
	F14	30A	'(P)	EPB 2	Electric Parking Brake Module		
	F15	20A	I Ø	H/LP WASHER	RLY. 8 (HEAD LAMP WASHER Relay)		
	F16	10A	BRAKE SWITCH	BRAKE SWITCH	Stop Lamp Switch, Smart Key Control Module		
	F17	30A	*POWER OUTLET	POWER OUTLET 2	RLY. 7 (POWER OUTLET 2 Relay)		
	F18	15A	F/PUMP	FUEL PUMP	RLY. 12 (F/PUMP Relay)		
FUSE	F19	15A	W	DEICER	RLY. 4 (DEICER Relay)		
	F20	15A	STOP LAMP	STOP LAMP	Stop Signal Electronic Module		
	F21	50A	** ******	B+3	Smart Junction Box (Leak Current Autocut Device, Fuse - F30/F32/F33/F39)		
	F22	40A	IG1	IG1	RLY. 9 (PDM 1 (ACC) Relay), RLY. 11 (PDM 2 (IG 1) Relay), Ignition Switch		
	F23	40A	്വ	ECU 5	EMS Box (Fuse - F32/F33/F34)		
	F27	10A	B/UP LAMP	B/UP LP	MT - Back-Up Lamp Switch, A/T - Rear Combination Lamp (IN) LH/RH, Electro Chromic Mirror, A/V & Navigation Head Unit, Audio, Instrument Cluster		
	F29	25A	À,	WIPER (LH)	Front Wiper LH		
	F30	25A	, D	WIPER (RH)	Front Wiper RH		
	F31	15A	್ಷ 🕮	ECU 4	ECM		

E/R Fuse & Relay Box (DSL) FUSE PULLER €2 EC11 Õ **EMS BOX** E44 RLY. 4 W E48 RLY. 8 RLY. 6 RR HTD RLY.7 POWER OUTLET (3) RLY. 12 器 器 MULTI FUSE ₽, '(D)

Relay NO.	Symbol	Relay Name	Туре
E41	¹ 😰	C/FAN 1 RELAY	PLUG MICRO
E42	88	BLOWER RELAY	PLUG MICRO
E43	1,900)	PDM3 (IG2) RELAY	PLUG MICRO
E44	₩	DEICER RELAY	PLUG MICRO
E45	' 🕰	C/FAN 2 RELAY	PLUG MINI
E46	RR HTD	RR HTD RELAY	PLUG MICRO
E47	POWER OUTLET	POWER OUTLET 2 RELAY	PLUG MICRO
E48	顺	H/LAMP WASHER RELAY	PLUG MICRO
E49	2 (ACC)	PDM1 (ACC) RELAY	PLUG MICRO
E50	O,	START RELAY	PLUG MICRO
E51	3,600)	PDM2 (IG1) RELAY	PLUG MICRO
E52D	四端	F/HEATER RELAY	PLUG MICRO

Circuit (E/R Fuse & Relay Box : DSL)

Fuse No.		(A)	Symbol	Fuse Name	Circuit Protected		
	F1	80A	ဓ	MDPS	MDPS Unit		
	F2	60A	B+1 (E-3)	B+1	Smart Junction Box (IPS 1, IPS 2, IPS 3, IPS 4, Fuse - F2/F9/F22/F29/F36)		
	F3	40A	IG2	IG2	RLY. 9 (Start Relay), Ignition Switch (W/O Button Start), RLY. 3 (PDM 3 (IG2) Relay, With Button Start)		
MULTI	F4	40A	· (10)	ABS1	ABS/ESP Control Module, Multipurpose Check Connector		
FUSE	F5	40A	RR HTD	RR HTD	RLY. 6 (Rear Defogger Relay)		
	F6	40A	දි	BLOWER	RLY. 2 (Blower Relay)		
	F7	40A	(2)	ABS2	ABS/ESP Control Module, Multipurpose Check Connector		
	F8	60A	8*7	B+2	Smart Junction Box (IPS 5, IPS 6, IPS 7, IPS 8, Fuse - F31/F37/F38)		
	F10	50A	<u></u>	B+4	E/R Fuse & Relay Box (Fuse - F29/F30/F31)		
	F11	30A	□0 333	FUEL HEATER	RLY. 12 (Fuel Heater Relay)		
	F12	30A	P	EPB 1	Electric Parking Brake Module		
	F13	50A	E	C/FAN	RLY. 1 (C/FAN 1 Relay), RLY. 5 (C/FAN 2 Relay)		
	F14	30A	٩	EPB 2	Electric Parking Brake Module		
	F15	20A	Ę	H/LP WASHER	RLY. 8 (HEAD LAMP WASHER Relay)		
	F16	10A	BRAKE SWITCH	BRAKE SWITCH	Stop Lamp Switch, Smart Key Control Module		
FUSE F18 20A POWER OUTLET 2 RLY. 7 (POWER OUTLET 2 Relay) TCM 1 TCM		RLY. 7 (POWER OUTLET 2 Relay)					
		TCM					
	F19	15A	W	DEICER	RLY. 4 (DEICER Relay)		
	F20	15A	STOP LAMP	STOP LAMP	Stop Signal Electronic Module		
	F21	50A	°°°	B+3	Smart Junction Box (Leak Current Autocut Device, Fuse - F30/F32/F33/F39)		
	F22	40A	IG1	IG1	RLY. 9 (PDM 1 (ACC) Relay), RLY. 11 (PDM 2 (IG 1) Relay), Ignition Switch		
	F23	40A	Ö	ECU 5	EMS Box (Fuse - F32/F33/F34)		
	F27	10A	B/UP LAMP	B/UP LP	MT - Back-Up Lamp Switch, A/T - Rear Combination Lamp (IN) LH/RH, Electro Chromic Mirror, A/V & Navigation Head Unit, Audio, Instrument Cluster		
	F29	25A	D.	WIPER (LH)	Front Wiper LH		
F30 25A WIPER (RH) Front Wiper RH		Front Wiper RH					

EMS BOX <REAR> <FRONT> E/R-CGGGA(G4FD) E/R-CNGMA(G4NA) E/R-CNGGA(G4NC) E/R-CUDA(D4FD) E/R-CGGGB(G4FD) E/R-CNGMB(G4NA) E/R-CNGGB(G4NC) E/R-CUDB(D4FD) RLY.8 RLY.2 HORN RELAY 23456789 1 2 3 4 5 6 7 8 10 11 12 13 14 15 16 17 18 9 10 11 12 13 14 15 16 ä ä HE IGN COL - CO PA3 10M PM WA P23. 108. E/R-EMS Relay NO. Relay Name Type ENGINE CONTROL RELAY PCB B/ALARM HORN RELAY PCB 2 HORN RELAY PCB 3

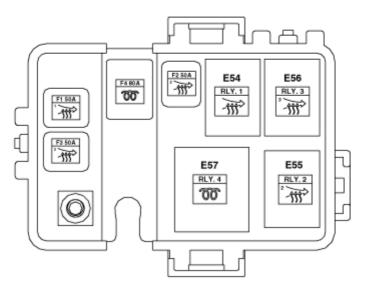
XUSE THE DESIGNATED FUSE AND RELAY ONLY

Circuit (EMS Box)

Fuse No.	(A)	Symbol	Fuse Name	Circuit Protected	
F32	15A	6	HORN	Horn Relay	
F33	15A	്വ	ECU3	G4FD : PCM (A/T), ECM (M/T) G4NA : PCM (A/T), ECM (M/T) G4NC : PCM (A/T), ECM (M/T)	
F34	10A	75₽	B/ALARM	B/Alarm Horn Relay, Horn Relay	
F35	10A	INJECTOR	INJECTOR	G4NA: Injector #1/#2/#3/#4	
F36	10A	ಿಡ	ECU 2	G4FD : PCM (A/T), ECM (M/T) G4NC : PCM (A/T), ECM (M/T)	
F37	20A	IGN COIL	IGN COIL1	G4NA : Ignition Coil #1/#2/#3/#4, Condenser	
F38	10A	*O	SENSOR 2	G4FD: Oil Control Valve #1/ #2, Oil Level Sensor, E/R Fuse & Relay Box (RLY. 1, RLY. 12) G4NA/G4NC: Oil Control Valve #1/ #2, Camshaft Position Sensor (Intake/Exhaust), Oil Level Sensor, E/R Fuse & Relay Box (RLY. 1, RLY. 12) D4FD: E/R Fuse & Relay Box (RLY. 1), Diesel Box (RLY. 1), Lambda Sensor, Fuel Regulating Valve VGT Control Solenoid Valve	
F39	20A	Ö	ECU 1	G4FD/D4FD : ECM G4NA/G4NC : PCM (A/T), ECM (M/T)	
F40	10A	 O l	SENSOR 1	G4FD: Oxygen Sensor (UP/DOWN), Variable Intake Solenoid Valve, Purge Control Solenoid Valve G4NA/G4NC: Oxygen Sensor (UP/DOWN), Variable Intake Solenoid Valve, Purge Control Solenoid Valve D4FD: Camshaft Position Sensor, EGR Cooling Bypass Solenoid Valve, Diesel Box (RLY. 4), Oil Level Sensor	

Diesel Box

D4FD: U-II 1.7L TCI



Circuit

Fuse No.	(A)	Symbol	Circuit Protected
F1	50A	· APP	PTC Heater Relay #1
F2	50A	`₩`	PTC Heater Relay #2
F3	50A	·m·	PTC Heater Relay #3
F4	80A	700	Glow Relay

Relay Type

Relay NO.	Relay Name	Relay Type
E54	PTC Heater Relay #1	MINI PLUG
E55	PTC Heater Relay #2	MINI PLUG
E56	PTC Heater Relay #3	MINI PLUG
E57	Glow Relay	MINI PLUG

X USE THE DESIGNATED FUSE AND RELAY ONLY

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

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 ...

Other information:

<u>Kia Carens RP (2013-2018) Service Manual: Rear Bumper beam Assembly Repair procedures</u>

Replacement • Put on gloves to protect your hands. • When ...

Kia Carens RP (2013-2018) Service Manual: Repair procedures

Replacement 1. Loosen the wheel nuts slightly. Raise the vehicle, and make sure it is securely supported. 2. Remove the rear wheel and tire (A) from rear hub. Tightening torque: $88.3 \sim ...$

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