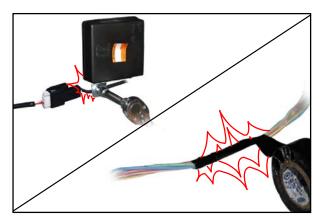
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# **GENERAL INFORMATION**

# 1. CAUTIONS WHEN WORKING ON ELECTRICAL UNITS

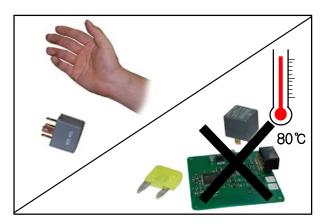


- Disconnect the negative cable from the battery in advance when working on electrical units.

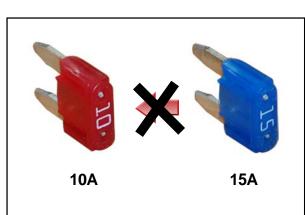
#### **CAUTION**

Make sure to turn "OFF" the ignition switch and other lamp switches before disconnecting or connecting the negative battery cable. (Otherwise, semiconductor parts can be damaged.)

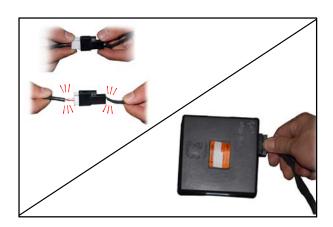
- Do not drop or appy excessive impact to sensors and relays.



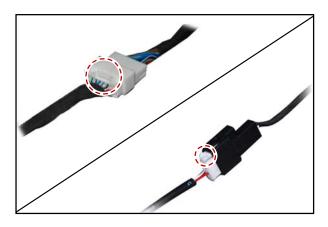
- If a fuse is blown, replace it with a fuse which has the correct amperage rating. If you use a fuse with higher capacity than the specification, the component can be damaged or catch fire.



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- Make sure a connector is connected securely. Loose connection results in malfunction.



- When disconnecting a connector equipped with a lock, press it down to the direction in the below figure.



- When checking voltage or continuity of the connector terminal with a circuit tester, connect the tester probe to the terminal at the harness side. For a sealed type connector, connect the probe to the terminal through the hole in the rubber cap of the wiring. Take care not to damage the insulation of the wires. Insert the probe until it contacts the terminal completely.

#### A CAUTION

When inspecting the airbag system, make sure to use a diagnostic device, not a circuit tester.

- 2. CHECKING CABLES AND WIRES
  - Check for loose connection or rust.
  - Check terminals and wires for corrosion due to electrolyte leakage.
  - Check terminals and wires for open circuit.
  - Check the wire insulation and coat for damage, cracks or deterioration.
  - Check if the conductive parts of the terminals do not contact with vehicle body or other metal parts.
  - Check that the grounding part has continuity with mounting bolts and vehicle body. Check that wires are properly routed.
  - Make sure that wires are securely fixed to avoid contact with sharp body parts and hightemperature parts, such as the exhaust manifold and exhaust pipes.
    - The rotating parts, such as fan pulley and fan belt, perturbative parts and wiring should be
  - secured tightly at regular intervals.
    - Secure the wiring between the fixed parts, such as the vehicle body, and vibrating parts, such
  - as the engine, after slackening it slightly to prevent it from being damaged.

Modification basis	
Application basis	
Affected VIN	

PLEASE USE THE DESIGNED FUSES.

PLEASE USE THE DESIGNED FUSES.

### 3. MAJOR CHANGES

# Interior fuse and relay box

Old

20A D.R.L(B+) NO.25 NO.17 engine room fuse & relay box 7,5A 15A A/CON SEAT WARMER HAZARD LAMP NO.26 NO.18 Spare fuses are in the FRT WIPER FRT WASHER 15A 10A DOOR LAMP RR FOG LAMP NO.19 10A 7.5A RR WIPER RR WASHER ROOM LAMP NO.20 10A 20A RR DEFFOGER RR P/OUTLET STOP LAMP NO.29 NO.21 10A 10A RAIN SNR STICS HORN NO.30 NO.22 20A FRT P/OUTLET NO.31 NO.23 15A 7.5A STARTER AUDIO NO.32 NO.24

		_				
_			ECU(GSL)	10A	IMMOBILIZER	7.5A
0	5	PTC(DSL)		NO.9		NO.1
. 1	ا ا		ENG ECU	15A	CLUSTER	7.5A
10A	NO.33			NO.10	STICS	NO.2
AR	5		COMP, STICS H/LAMP(LO)		T/SIG LAMP	15A
B/SONAR	3SL E			NO.11	Troid Davi	NO.3
$\overline{}$	_				T.C.C.U	10A
15A	NO.34			NO.12	TCU	NO.4
			TCCU	20A	SUN ROOF	7.5A
acolesia io	L 3EI		NO.13	NO.13	I/S MIRROR MULTI METER	NO.5
=	=		MULTI METER	7.5A		
20A	NO.35		STICS CLUSTER	NO.14		NO.6
	O/S MIRROR		7.5A	ABS/ESP	10A	
0	2		(FOLD'G) CHIM BELL	NO.15	ADO/ESF	NO.7
	DOOR LOCK		15A	AIR BAG	10A	
10A	NO.36		DIAGNOSIS	NO.16	AiribAd	NO.8

New

15A 20A S/WHEEL HEATER NO.17 NO,25 engine room fuse & relay box A/CON SEAT WARMER CLUSTER HAZARD LAMP BURGLAR HORN 7.5A 15A NO.26 NO.18 Spare fuses are in the 10A 15A FRT WIPER FRT WASHER DOOR LAMP RR FOG LAMP NO.27 NO.19 10A 7.5A RR WIPER RR WASHER ROOM LAMP CLOCK NO.28 NO.20 RR DEFOG A/CON RR CIGAR 10A 20A STOP LAMP NO,29 NO.21 10A 10A RAIN SNR STICS NO.30 NO.22 20A 15A VOLT STABILIZER (HEAD LAMP) FRT CIGAR NO.31 NO.23 15A 10A STARTER GSL ECU AUDIO NO.32 NO.24

EH		A/CON COMP C/FAN, F/HEATER	10A	IMMOBILIZER	7.5A
VOLT STABILIZER		HEAD LAMP H.L.L.D	NO.9	D.R.L	NO.1
	4	DSL ECU	15A	CLUSTER	7.5A
10A NO.33		GSL SENSOR	NO.10	STICS	NO.2
S AB	]	VOLT STABILIZER	15A	T/SIG LAMP	15A
B/SONAR GSL ECU		(HEAD LAMP)	NO.11	B/UP LAMP	NO.3
		VOLT STABILIZER	15A	T.C.C.U	10A
15A NO.34		(TAIL, HMSL)	NO.12	TCU	NO.4
SOR	]	TCCU	20A	S/ROOF, CLOCK I/S MIRROR	7.5A
GSL SENSOR		1000	NO.13	S/LP SW, A/LIGHT CLUSTER, PTC	NO.5
=	┧	A/CON STICS	7.5A	VOLT STABILIZER	10A
20A NO.35		CLUSTER	NO.14	VOLI STABILIZER	NO.6
r ZER 4MP)	1	O/S MRR(FOLD'G) CHIM BELL	7.5A	ABS/ESP	10A
VOLT STABILIZER (STOP LAMP)		IMMOBILIZER KEY REMINDER	NO.15	ABS/ESF	NO.7
	ļ	DOOR LOCK	15A	AIR BAG	10A
15A NO,36		DIAGNOSIS	NO.16	7 BAG	NO.8

- Heated steering wheel added
- Voltage stabilizer module added

Modification basis	
Application basis	
Affected VIN	

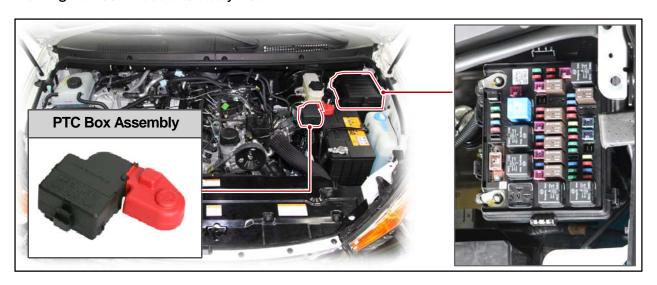
# OVERVIEW AND OPERATING PROCESS

# 1. OVERVIEW

The fuse and relay boxes consist of four boxes: Fuse & relay box, in engine room and Fuse and relay box in left side of instrument panel.

# 2. LOCATION

► Engine Room Fuse and Relay Box



#### ▶ Interior Fuse and Relay Box

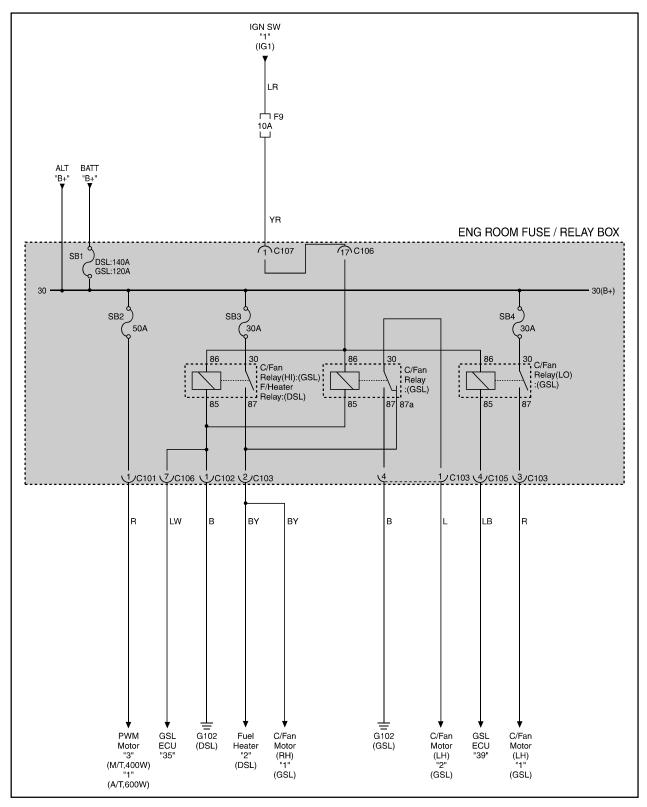


Modification basis	
Application basis	
Affected VIN	

# 3. CIRCUIT DIAGRAM

# 1) Engine Room Fuse and Relay Box

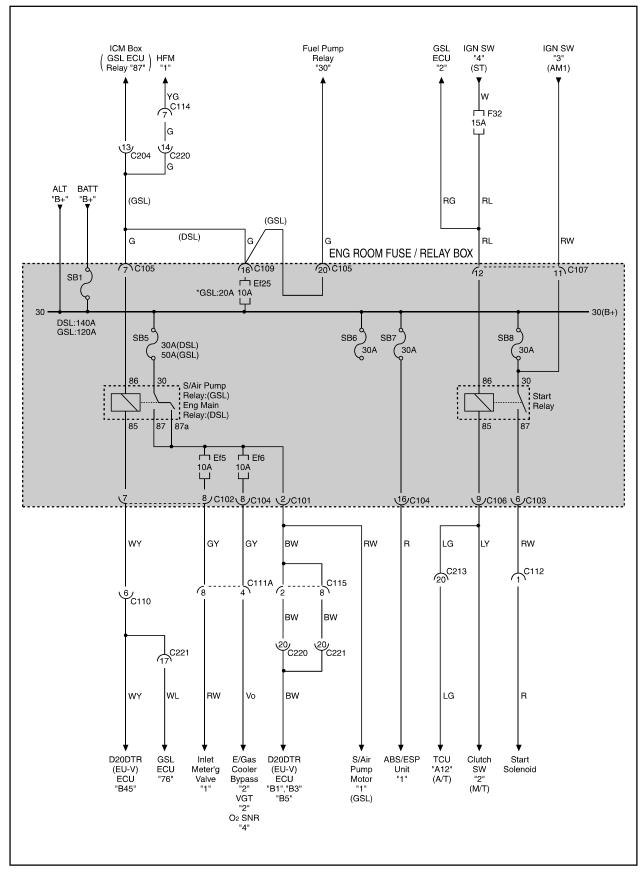
▶SB1~SB4, C/FAN (HI,LO) REALY, F/HEATER RELAY



Modification basis	
Application basis	
Affected VIN	

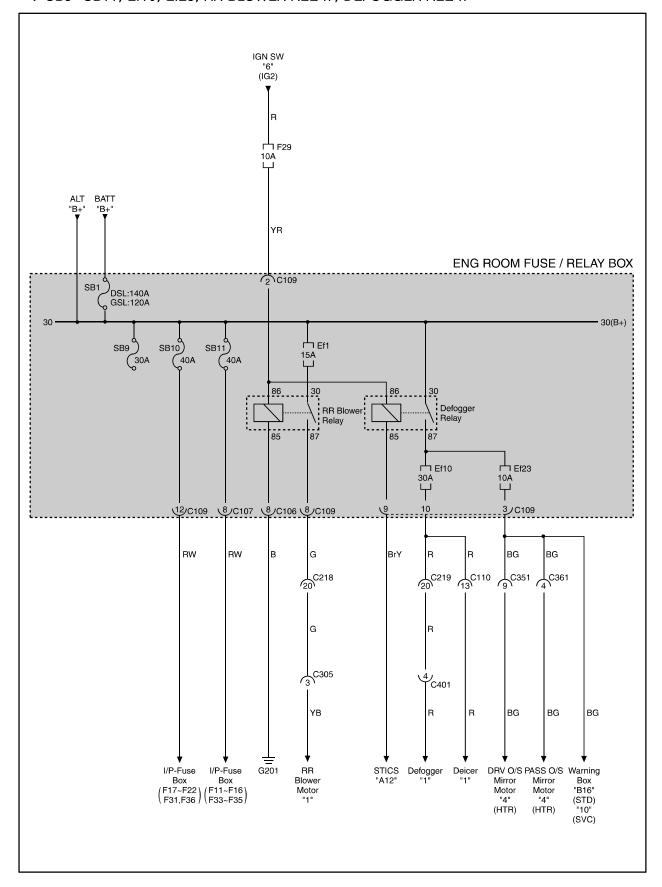
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### ▶SB5~SB8, Ef5, Ef6, 2ND A/PUMP RELAY, ENG MAIN RELAY, START RELAY



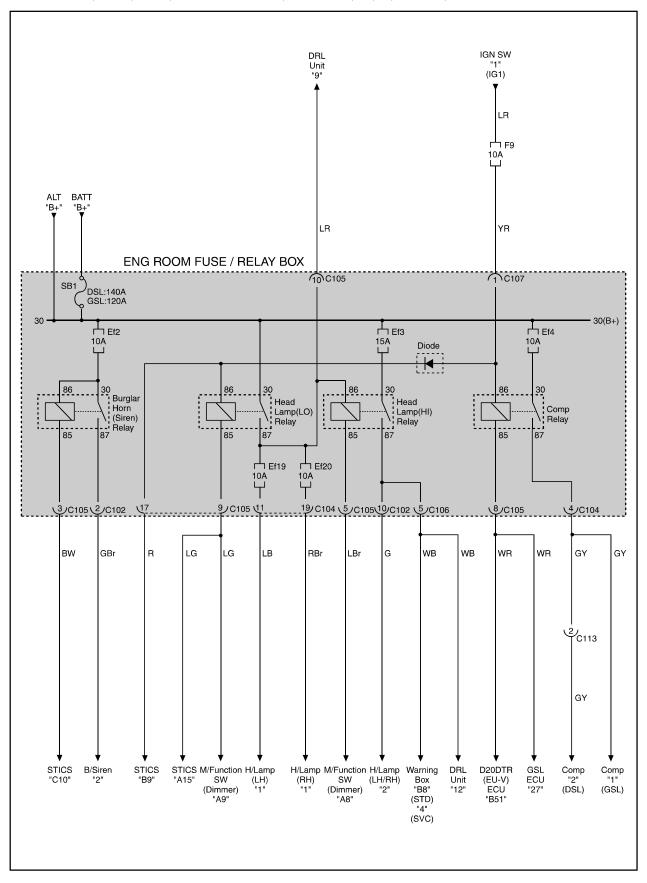
Modification basis	
Application basis	
Affected VIN	

#### ▶SB9~SB11, Ef10, Ef23, RR BLOWER RELAY, DEFOGGER RELAY



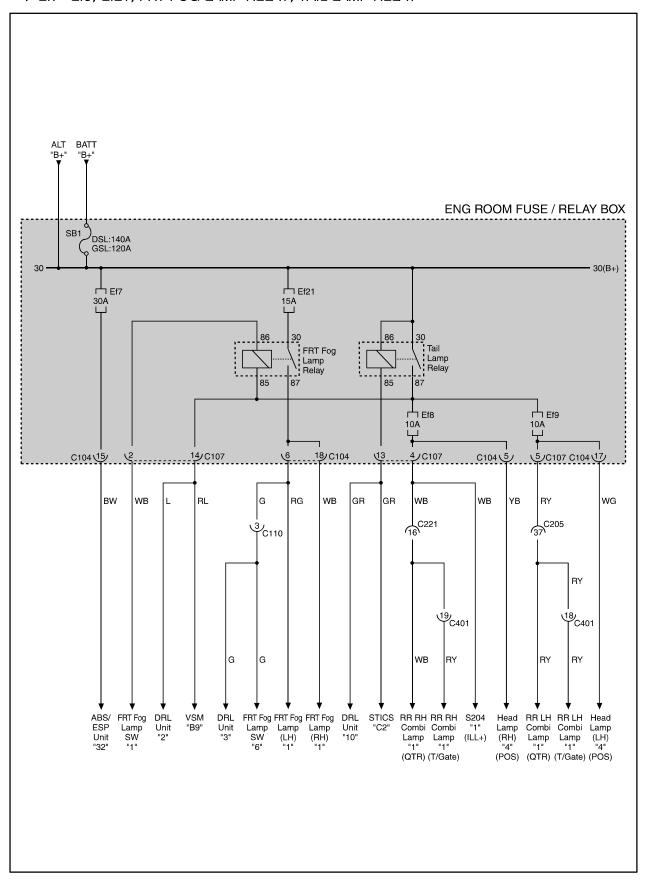
Modification basis	
Application basis	
Affected VIN	

### ▶ Ef2~Ef4, Ef19, Ef20, B/HORN RELAY, H/LAMP (LO,HI) RELAY, COMP RELAY

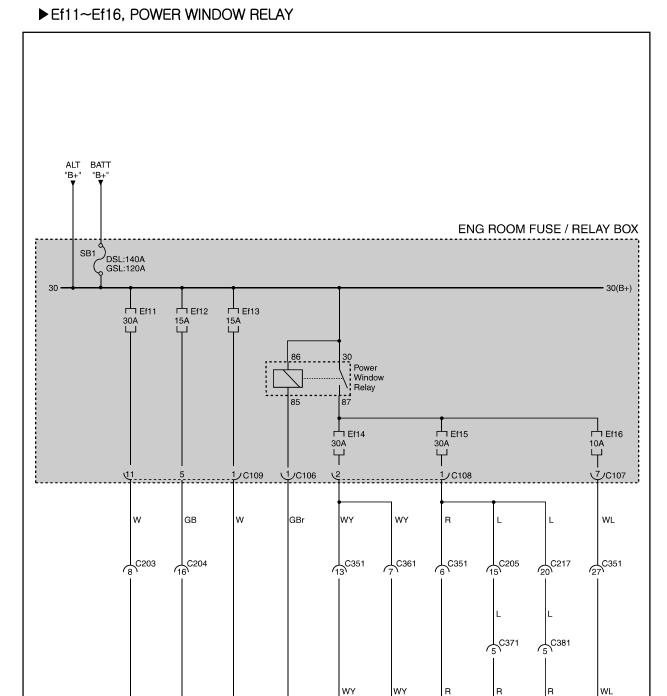


Modification basis	
Application basis	
Affected VIN	

#### ▶Ef7~Ef9, Ef21, FRT FOG LAMP RELAY, TAIL LAMP RELAY



Modification basis	
Application basis	
Affected VIN	



Modification basis	
Application basis	
Affected VIN	

ICM Box

(FRT Blower Relay

"30")

ICM Box

(S/Warmer Relay L/R

GSL ECU "12"

STICS

"A25"

Driver

P/Window SW

"13","16"

Driver

P/Window SW

"3"

Passenger

P/Window SW

RR LH

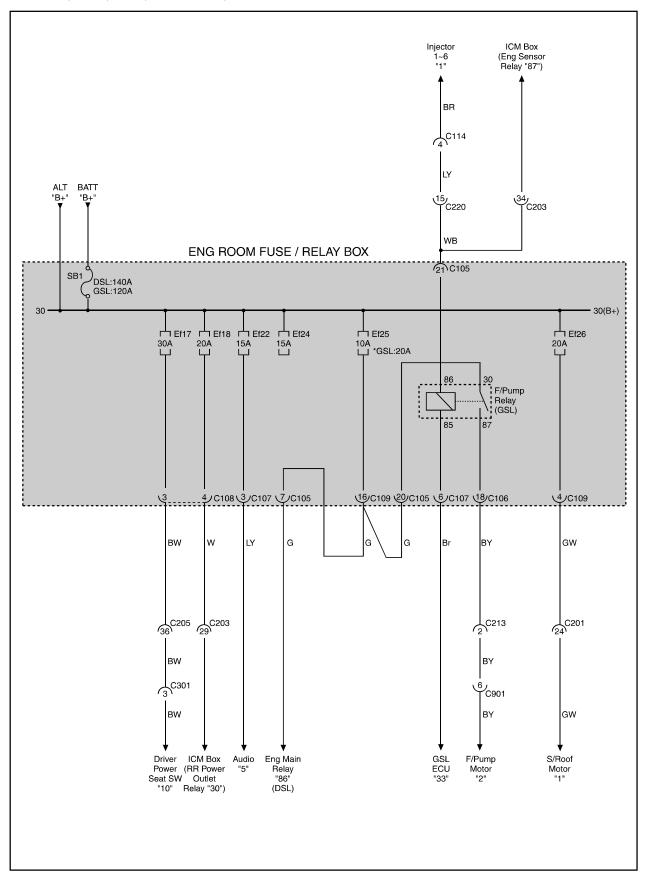
P/Window SW

RR RH

P/Window SW "6"

Driver O/S MRR SW

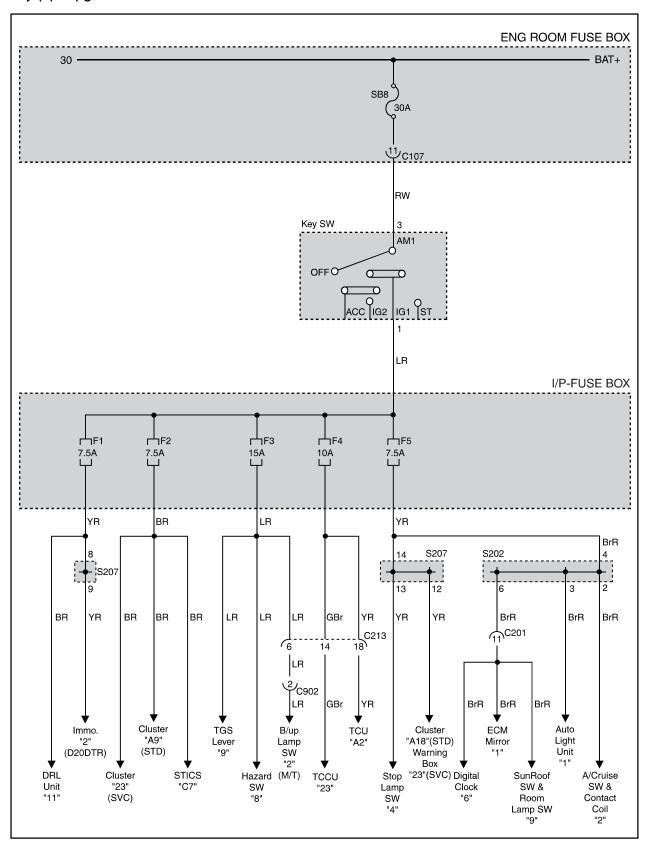
#### ▶Ef17, Ef18, Ef22, Ef24~Ef26, FUEL PUMP RELAY



Modification basis	
Application basis	
Affected VIN	

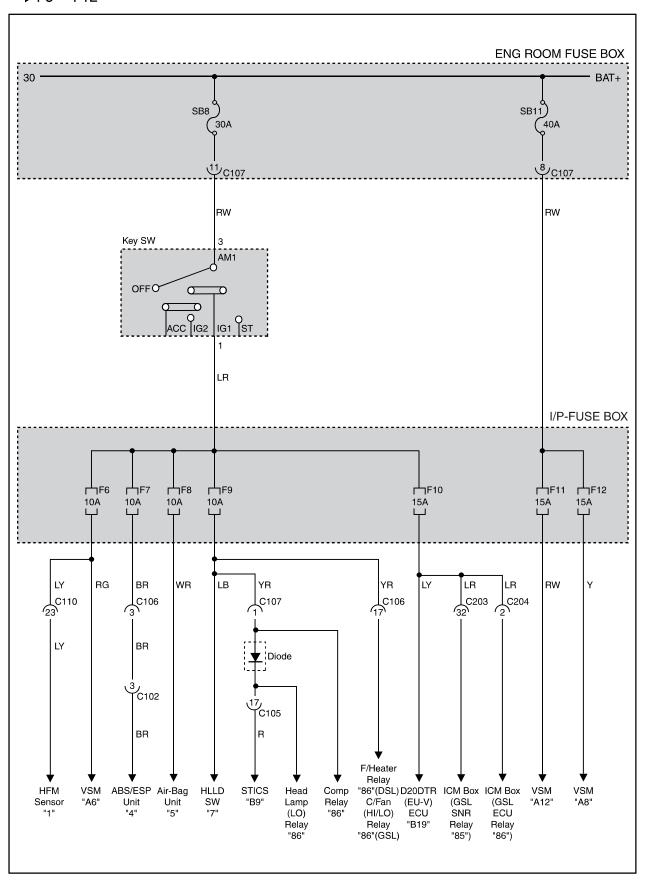
2) Interior Fuse and Relay Box

▶F1 ~ F5



	Modification basis	
	Application basis	
	Affected VIN	

#### ▶F6 ~ F12



#### FUSE AND RELAY

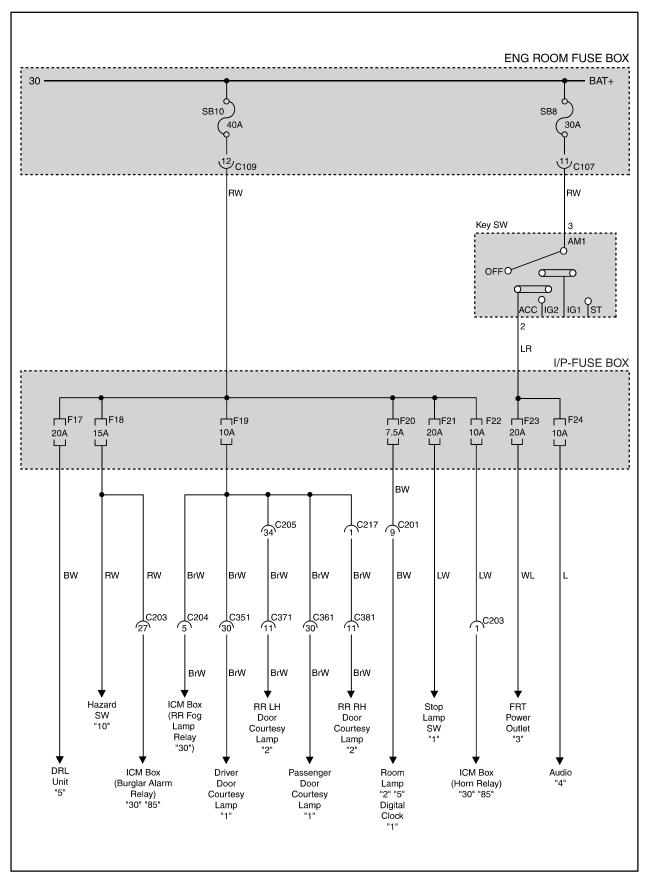
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Modification basis	
Application basis	
Affected VIN	

ROOM FUSI	ENG		 							
				111)	Ş					
				40A						
			 	&C107						
				RW						
I/P-FUSI			 							
	F16			F15		1emory	7F14			F13
	15A 			7.5A 			5A	; 7		20A 
	+	 ¬	 	-		 ¬				
			S202	BW 9						
			10	8						
RW	RW	BW	BW	BW		BrW	BrW		BrW	LW
C203		C351		C203						004
C203		4		C203					C211	15 <sup>C213</sup>
		BW							Or/YL	LW
ICM Box	agnosis	olding [	Key	CM Box	. (6	Cluster A10"(STD)	ICS C1"	ST ST	FATC Unit	CCU
DR Lock DR UnLock Relay "86", "87"	"16"	Unit "5"	Reminder SW "3"	ппе веп+)	, (c	"22"(SVC) Warning Box "B6"(STD) "22"(SVC)	,1	•	"A14" Blower Unit "9"	13" 26"

Modification basis	
Application basis	
Affected VIN	

#### ▶F17 ~ F24

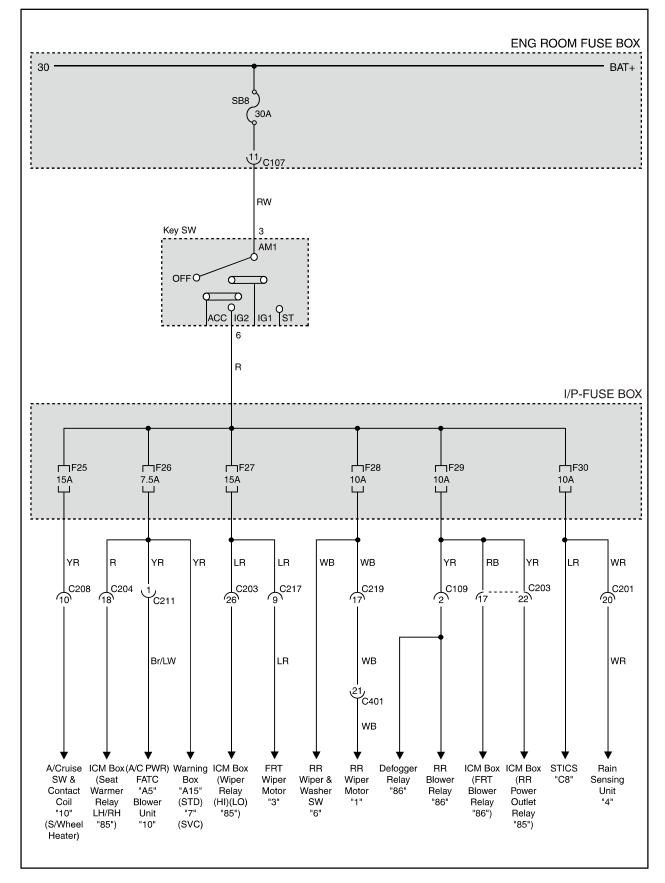


# FUSE AND RELAY

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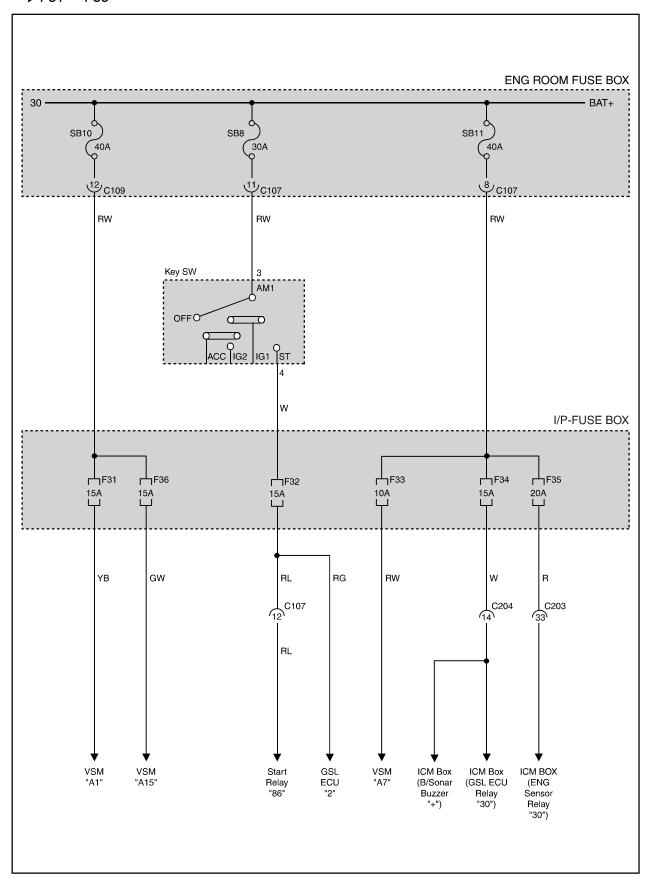
Modification basis	
Application basis	
Affected VIN	

▶F25 ~ F30



Modification basis	
Application basis	
Affected VIN	

#### ▶F31 ~ F36



# FUSE AND RELAY

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Modification basis	
Application basis	
Affected VIN	