

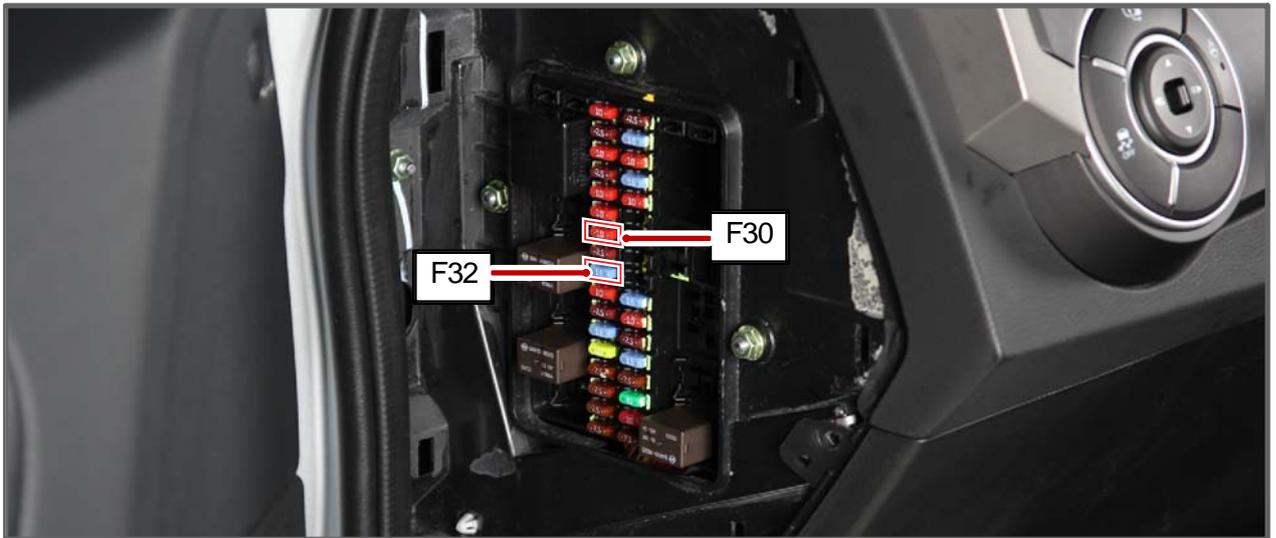
FUSE AND RELAY

8410-02

GENERAL INFORMATION

1. MAJOR CHANGES

- ▶ Driver's interior fuse and relay box assembly changed



VP - LH FUSE / RELAY BOX

Old				New			
SPARE	SPARE	F24 10A	A/BAG	F41 7.5A	OSIDE MRR DIGITAL CLOCK	SPARE	SPARE
FLASHER UNIT	F25 7.5A	CLUSTER STICS	F42 15A	C/LIGHTER	RR FOG RLY	DIODE 1	DIODE 2
	F26 10A	ENG ROOM FUSE & RLY BOX	F43 10A	AUDIO			
	F27 7.5A	*GSL ALTERNATOR IMMOBILIZER SLAMP	F44 15A	PWR OUTLET			
SPARE	F28 10A	T/SIGNAL BACK UP LP	F45 10A	ENG ECU	F46 20A	*GSL INJECTOR	
BURGLAR HORN	F29 10A	TCU TCU	F47 15A	*GSL SENSOR	F48 20A	*GSL FUEL PUMP	
	F30 10A	ENG ECU	F49 15A	DRL	F49 15A	DRL	
HEAP LAMP(HI)	F31 7.5A	HEATING VALVE	F50 15A	HEAD LAMP (HI)	F50 15A	HEAD LAMP (HI)	
	F32 7.5A	SPARE	F51 10A	RR FOG LAMP INTERIOR LAMP	F51 10A	RR FOG LAMP INTERIOR LAMP	
SPARE	F33 10A	ABS	F52 7.5A	IMMOBILIZER BUZZER, CHIME	F52 7.5A	IMMOBILIZER BUZZER, CHIME KEY FWD SW	
	F34 7.5A	HEAD LP R/SIDE AUTO LIGHT ECM MRR	F53 15A	DOOR LOCK/UNLOCK B/HORN	F53 15A	DOOR LOCK/UNLOCK B/HORN	
HEAP LAMP(HI)	F35 15A	S/WARMER	F54 7.5A	DIAGNOSIS	F54 7.5A	DIAGNOSIS	
	F36 20A	FRT WIPER WASHER	F55 30A	F/HEATER	F55 30A	F/HEATER	
SPARE	F37 7.5A	A/CON	F56 10A	STARTER *GSL ECU	F56 10A	STARTER *GSL ECU	
	F38 7.5A	S/ROOF	F57 7.5A	DEF IND O/S MRR DEF	F57 7.5A	DEF IND O/S MRR DEF	
SPARE	F39 7.5A	STICS	F40 7.5A	ALTERNATOR	F40 7.5A	ALTERNATOR	
	F40 7.5A	ALTERNATOR					

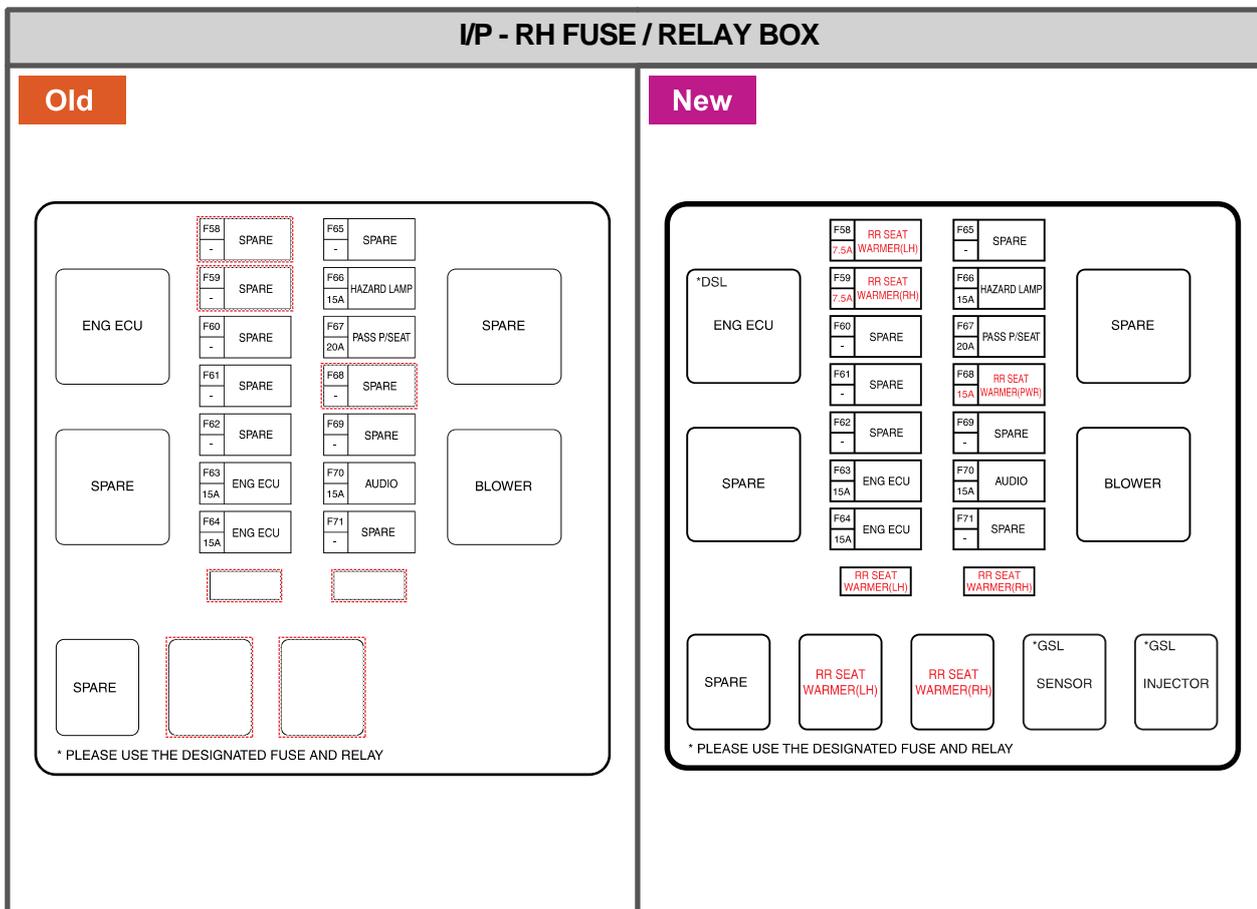
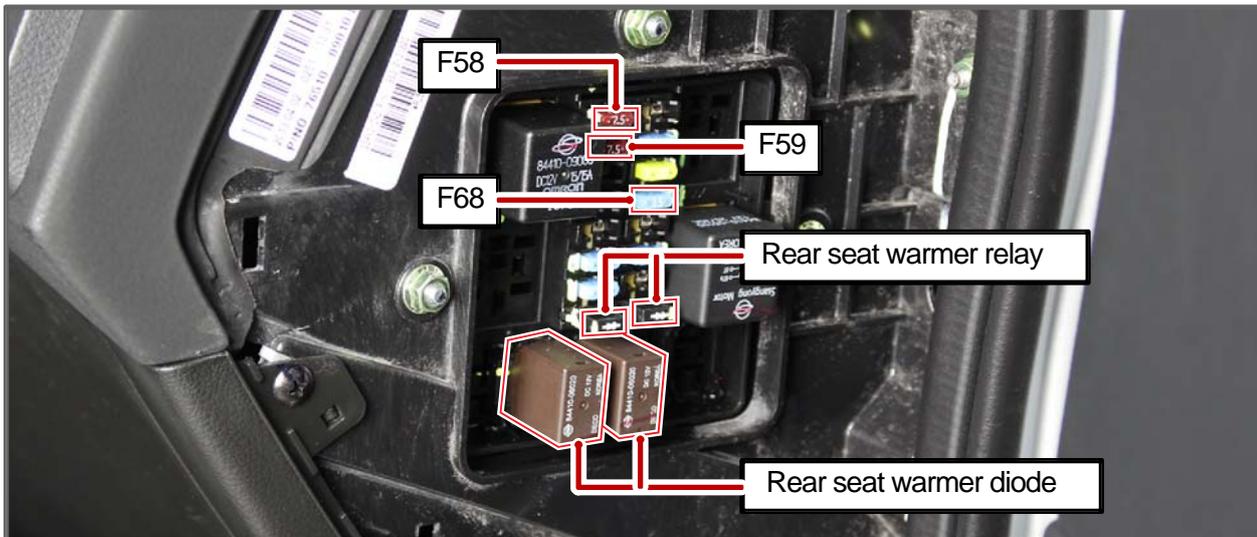
* PLEASE USE THE DESIGNATED FUSE AND RELAY

- Power supply circuit for HFM sensor added (F30)
- Fuse for heated steering wheel added (F32)

Modification basis	
Application basis	
Affected VIN	

FUSE AND
STICS
IMMOBILIZER
CLUSTER
LAMP
SWITCH
WIPER
RAIN SENSOR
PAS
AUDIO SYSTEM

► Passenger's interior fuse and relay box assembly changed



Fuse, relay and diode for rear seat warmer added

- F58: Rear LH seat warmer fuse
- F59: Rear RH seat warmer fuse
- F68: Rear seat warmer power fuse
- 2 rear seat warmer diodes (LH & RH)
- 2 rear seat warmer relays (LH & RH)

FUSE AND RELAY

ACTYON SPORTS II 2013.05

Modification basis	
Application basis	
Affected VIN	

OVERVIEW AND OPERATION PROCESS

1. OVERVIEW

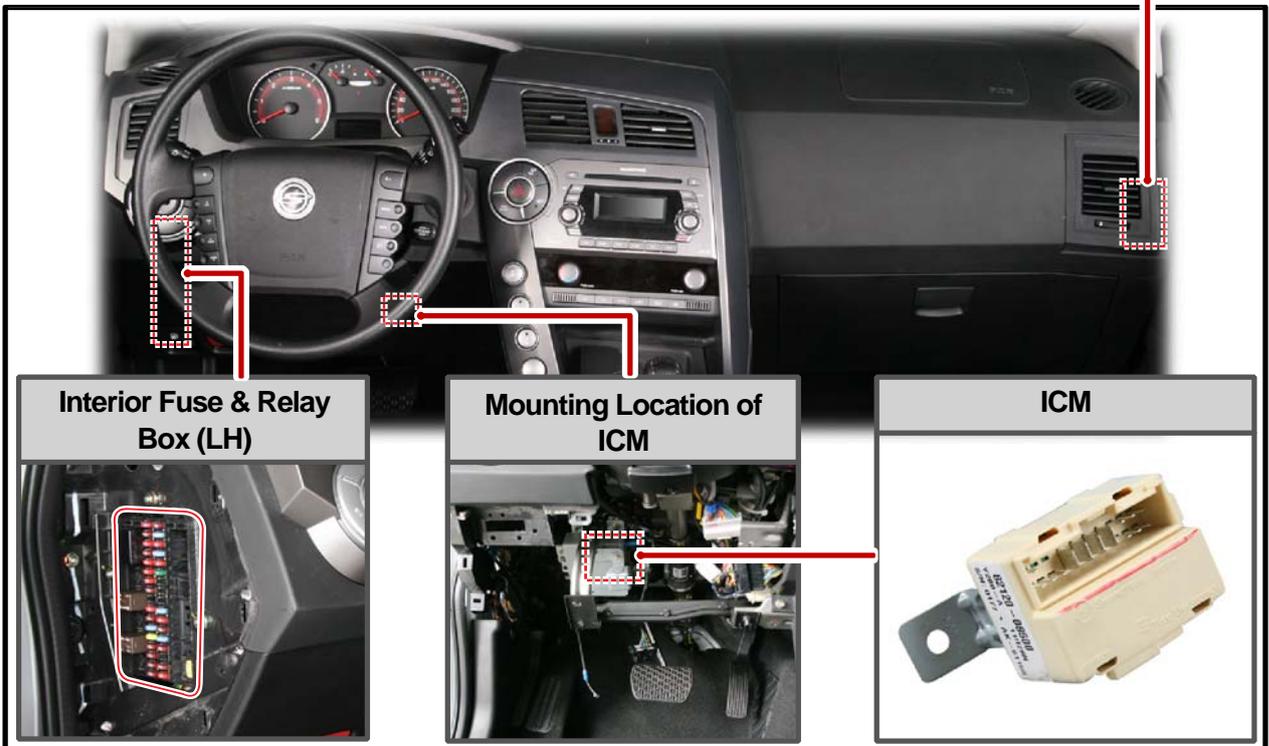
The ICM (Integrated Control Module) mounted to the back of the STICS is integrated with the door lock/unlock relay, windshield de-icer relay and turn signal lamp relay. There are four fuse & relay units.

2. MOUNTING LOCATION

► In engine compartment



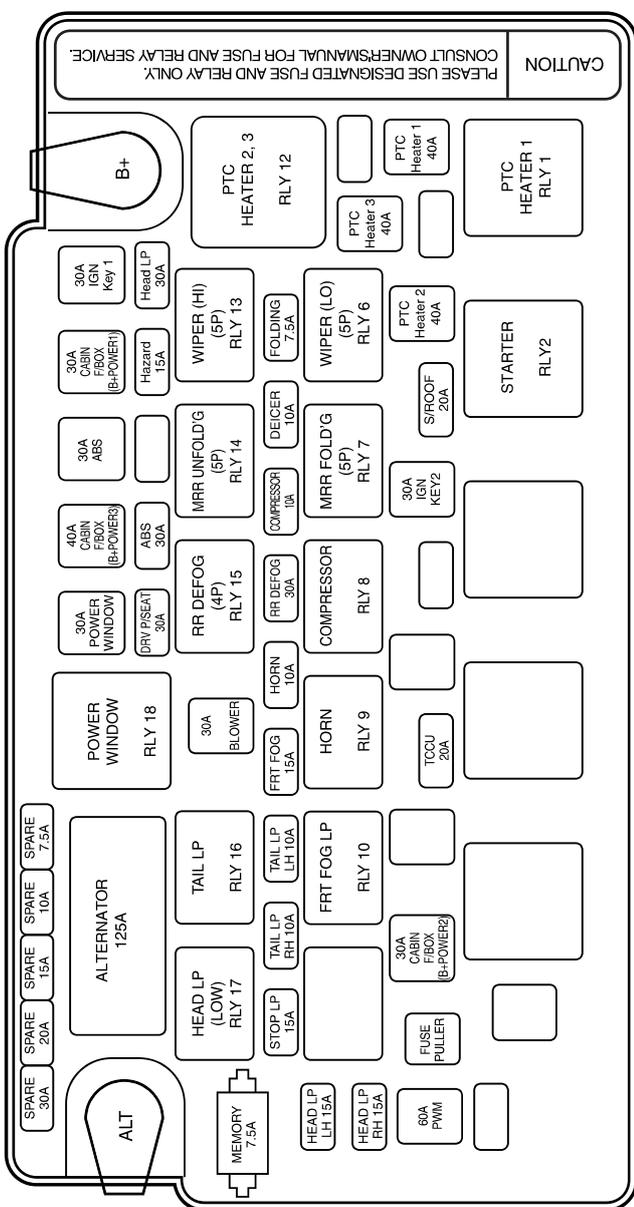
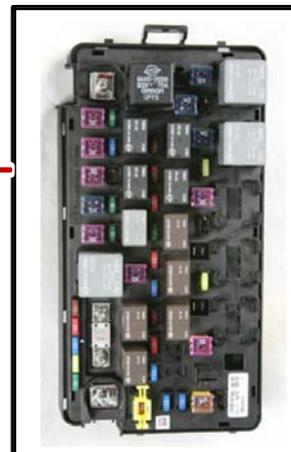
► In vehicle



Modification basis	
Application basis	
Affected VIN	

FUSE AND
STICS
IMMOBILIZER
CLUSTER
LAMP
SWITCH
WIPER
RAIN SENSOR
PAS
AUDIO SYSTEM

3. CAPACITY AND NAME OF FUSE AND RELAY IN ENGINE COMPARTMENT

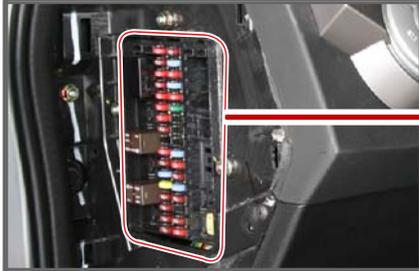


* The label attached on each fuse box indicates only major fuses and relays. Therefore, there are more fuses and relays than indicated. For details about the connection of fuses and relays, refer to the power distribution circuit diagram on the following pages.

Modification basis	
Application basis	
Affected VIN	

4. CAPACITY AND NAME OF INTERIOR FUSE AND RELAY

1) Interior Fuse and Relay Box on Driver Side



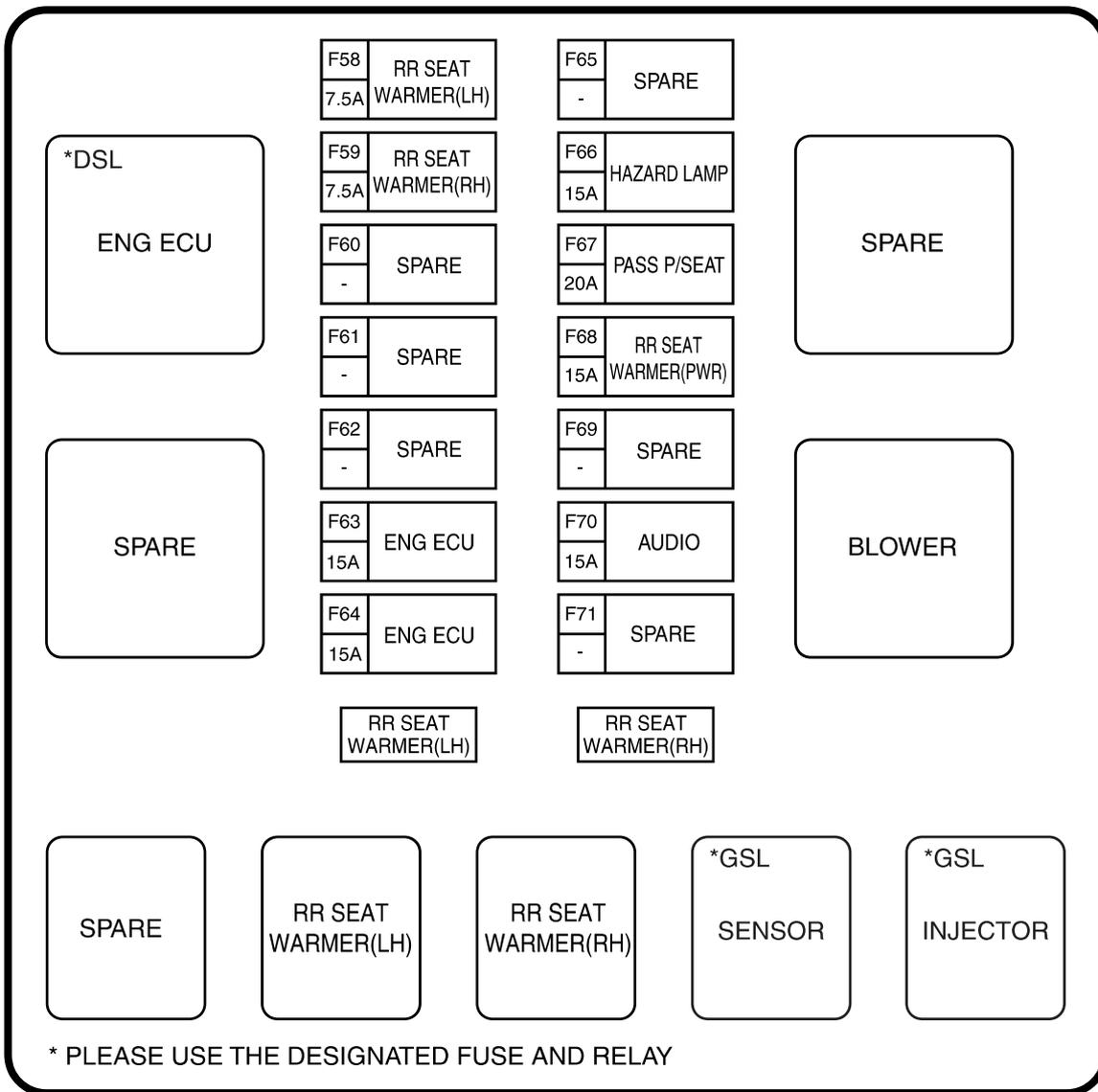
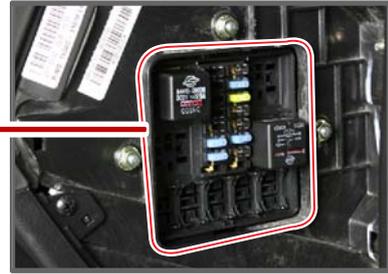
	SPARE		SPARE	F24 10A	A/BAG	F41 7.5A	O/SIDE MRR DIGITAL CLOCK ECM MRR		SPARE		SPARE
	FLASHER UNIT			F25 7.5A	CLUSTER STICS	F42 15A	C/LIGHTER		RR FOG RLY		
				F26 10A	ENG ROOM FUSE & RLY BOX	F43 10A	AUDIO				
				F27 7.5A	CLUSTER IMMOBILIZER S/LAMP	F44 15A	PWR OUTLET				
				F28 10A	T/SIGNAL BACK UP LP	F45 10A	ENG ECU				
				F29 10A	TCU TCCU	F46 20A	*GSL INJECTOR	DIODE 1			
		SPARE			F30 10A	ENG ECU	F47 15A	*GSL SENSOR		DIODE 2	
	BURGLAR HORN			F31 7.5A	*DSL HEATING VALVE	F48 20A	*GSL FUEL PUMP				
				F32 15A	S/WHEEL HEATING	F49 15A	DRL				
	SPARE			F33 10A	ABS ESP OFF SW	F50 15A	HEAD LAMP (HI)		SPARE		
				F34 7.5A	HEAD LP R/SNR& AUTO LIGHT DRL	F51 10A	RR FOG LAMP INTERIOR LAMP				
	HEAP LAMP(HI)			F35 15A	S/WARMER	F52 7.5A	IMMOBILIZER BUZZER, CHIME KEY RMD SW		SPARE		
				F36 20A	FRT WIPER WASHER DEFOGGER	F53 15A	DOOR LOCK/UNLOCK B/HORN				
	SPARE			F37 7.5A	A/CON	F54 7.5A	DIAGNOSIS		F/PUMP(GSL) F/HEATER(DSL)		
				F38 7.5A	S/ROOF	F55 30A	*DSL F/HEATER				
				F39 7.5A	STICS	F56 10A	STARTER *GSL ECU				
				F40 7.5A	ALTERNATOR	F57 7.5A	DEF IND O/S MRR DEF				

* PLEASE USE THE DESIGNATED FUSE AND RELAY

Modification basis	
Application basis	
Affected VIN	

FUSE AND
STICS
IMMOBILIZER
CLUSTER
LAMP
SWITCH
WIPER
RAIN SENSOR
PAS
AUDIO SYSTEM

2) Interior Fuse and Relay Box on Passenger Side



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Modification basis	
Application basis	
Affected VIN	

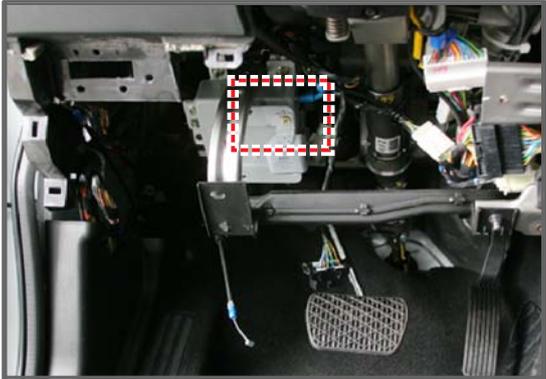
5. OPERATING PROCESS OF ICM BOX

1) Overview

The following relays are integrated into the ICM (Integrated Control Module) box.

- Door lock/unlock relay
- Windshield de-icer relay
- Turn signal lamp relay

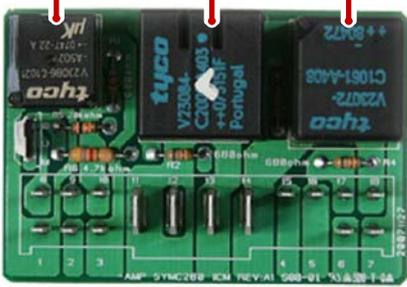
2) Mounting Location

Turn signal lamp relay

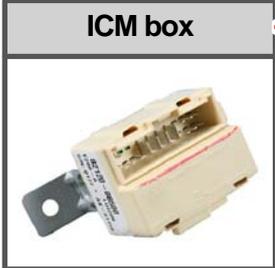
Windshield de-icer relay

Door lock/unlock relay



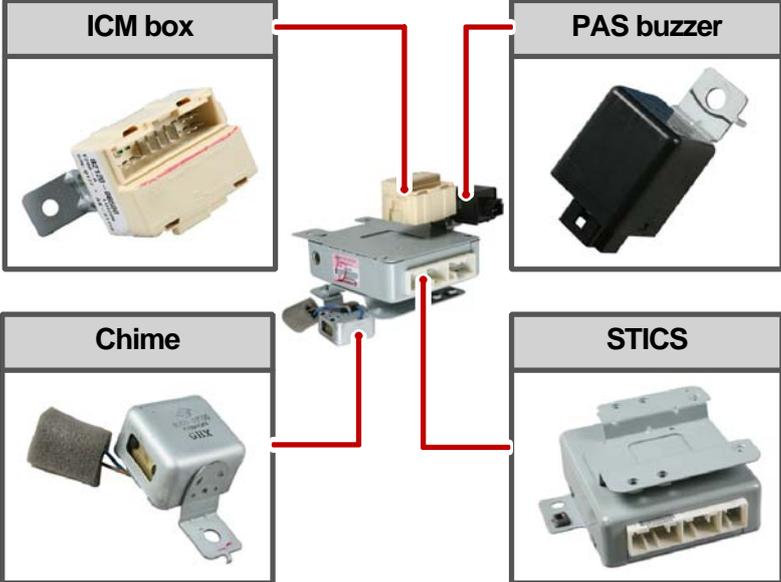
Inner view of ICM PCB

ICM box



PAS buzzer





Chime



STICS



NOTE

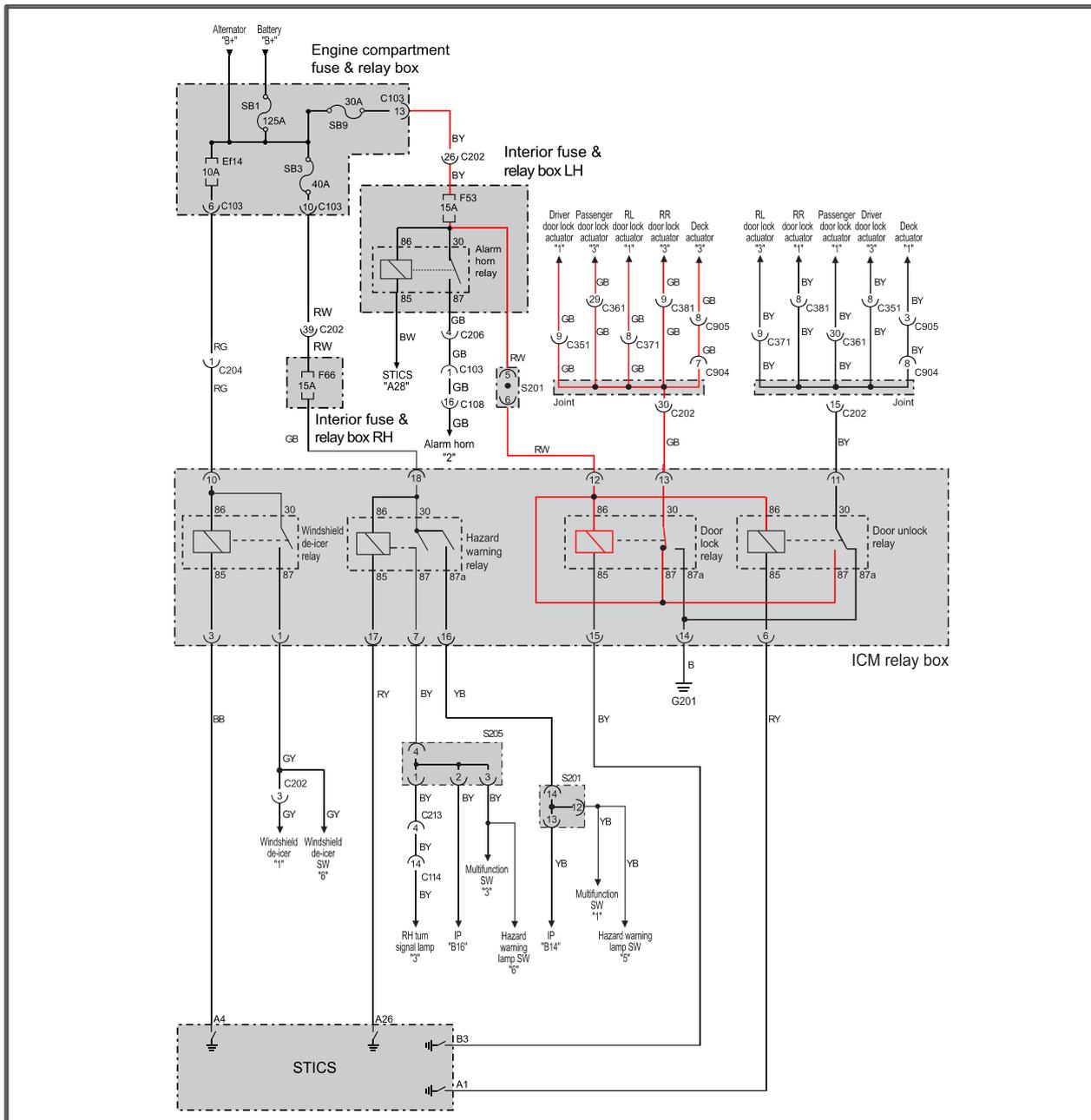
The relays in the ICM box cannot be replaced respectively; so if the any of the components on the PCB are defective, they should be replaced as an assembly.

Modification basis	
Application basis	
Affected VIN	

FUSE AND
 STICS
 IMMOBILIZER
 CLUSTER
 LAMP
 SWITCH
 WIPER
 RAIN SENSOR
 PAS
 AUDIO SYSTEM

3) Operating Process by Power Supply of ICM Box

(1) Door lock relay

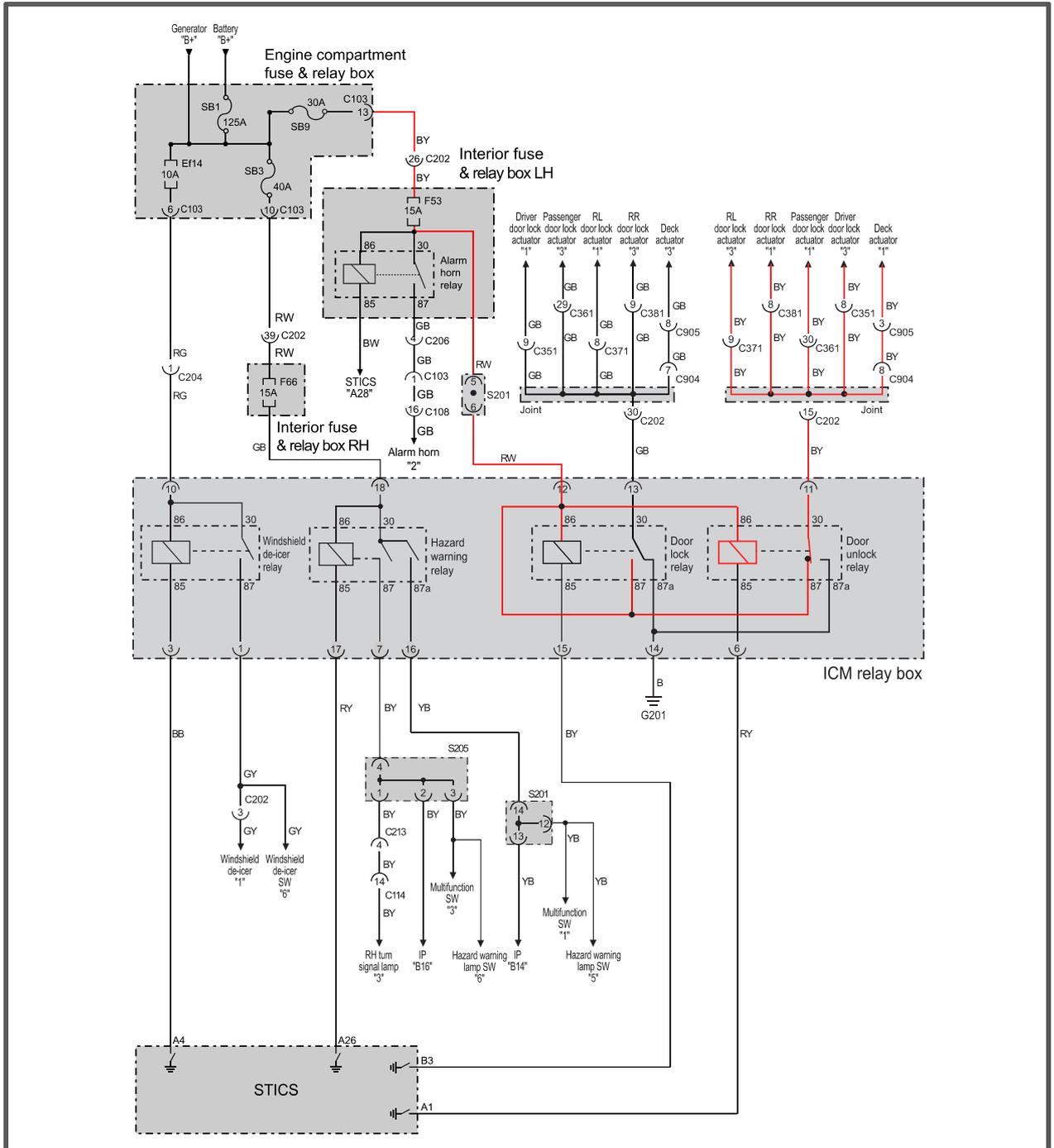


The power supplied through the No. F53 interior fuse on the left-hand of the engine compartment is on standby on the No. 86 and 87 door lock relay terminals and No. 86 and 87 door unlock relay terminals via the ICM No. 12 terminal. The STICS activates and/or controls the door lock relay connected to the ICM No. 15 terminal using the STICS No. B3 terminal depending on the operating conditions. The activated door lock relay supplies the No. 30 terminal with the B+ power, which is standby on the No. 87 terminal and supplies each door actuator with the B+ power.

The supplied power flows to the G201 ground connected to the ICM No. 14 terminal via the No. 30 and 87a door unlock relays for corresponding load.

Modification basis	
Application basis	
Affected VIN	

(2) Door unlock relay



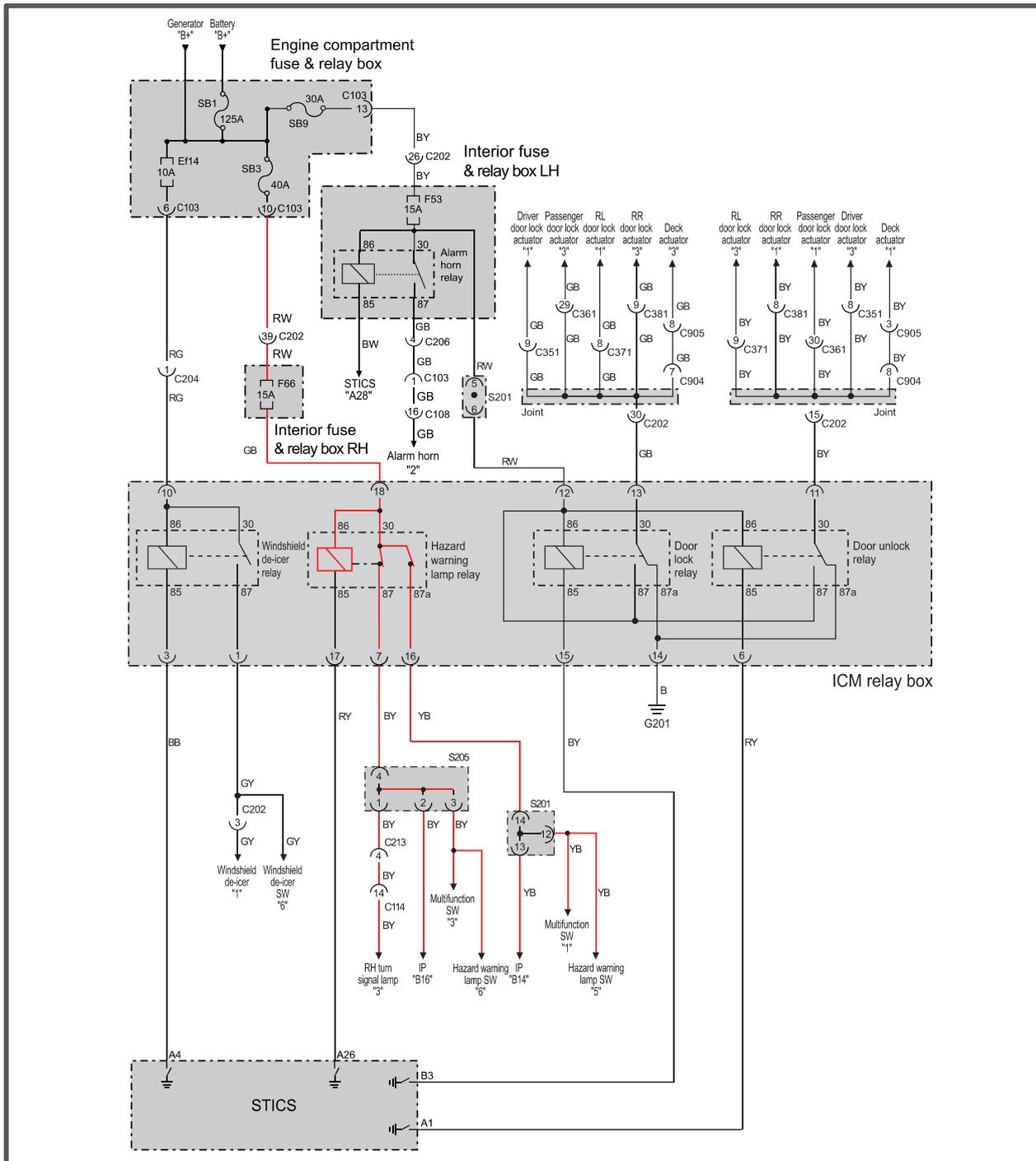
The supply power is on standby in the same way as the door lock relay, and the STICS activates and/or controls the door unlock relay connected to the ICM No. 6 terminal using the STICS No. A1 terminal depending on the operating conditions. The activated door unlock relay supplies the No. 30 terminal with the B+ power, which is standby on the No. 87 terminal and supplies each door actuator with the B+ power.

The supplied power flows to the G201 ground connected to the ICM No. 14 terminal via the No. 30 and 87a door lock relays for corresponding load.

Modification basis	
Application basis	
Affected VIN	

FUSE AND
STICS
IMMOBILIZER
CLUSTER
LAMP
SWITCH
WIPER
RAIN SENSOR
PASSENGER
AUDIO SYSTEM

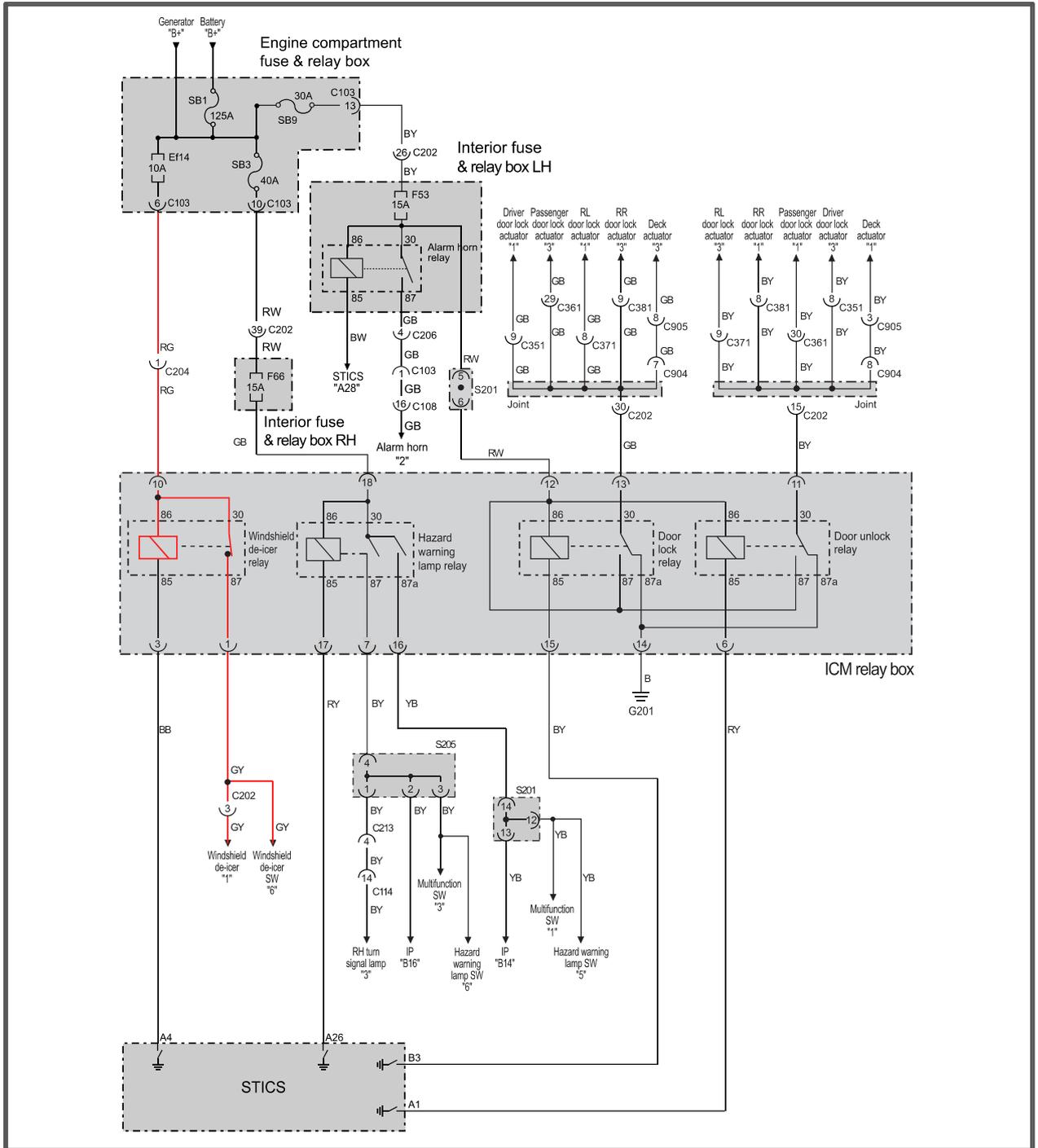
(3) Turn signal lamp (Hazard warning lamp operation)



The B+ power supplied through the No. F66 interior fuse on the right-hand of the engine compartment is on standby on the No. 30 and 86 hazard warning lamp relay terminals via the ICM No. 18 terminal. The STICS activates and/or controls the hazard warning lamp relay using the No. A26 terminal depending on the operating conditions. The activated relay supplies the No. 87 and 87a terminals with the power, which is on standby on the No. 30 hazard warning lamp relay terminal. The supplied power flows to the corresponding circuit via the No. 7 and 16 ICM terminals.

Modification basis	
Application basis	
Affected VIN	

(4) Windshield de-icer operation



The B+ power supplied through the No. Ef14 fuse and relay box in the engine compartment is on standby on the No. 30 and 86 windshield de-icer relay terminals via the ICM No. 10 terminal. The STICS activates and/or controls the windshield de-icer relay using the No. A4 terminal depending on the operating conditions. The activated relay supplies the No. 87 terminal with the power, which is on standby on the No. 30 windshield de-icer lamp relay terminal. The supplied power flows to the windshield de-icer circuit via the No. 1 ICM terminal.

Modification basis	
Application basis	
Affected VIN	