

VEHICLE GENERAL

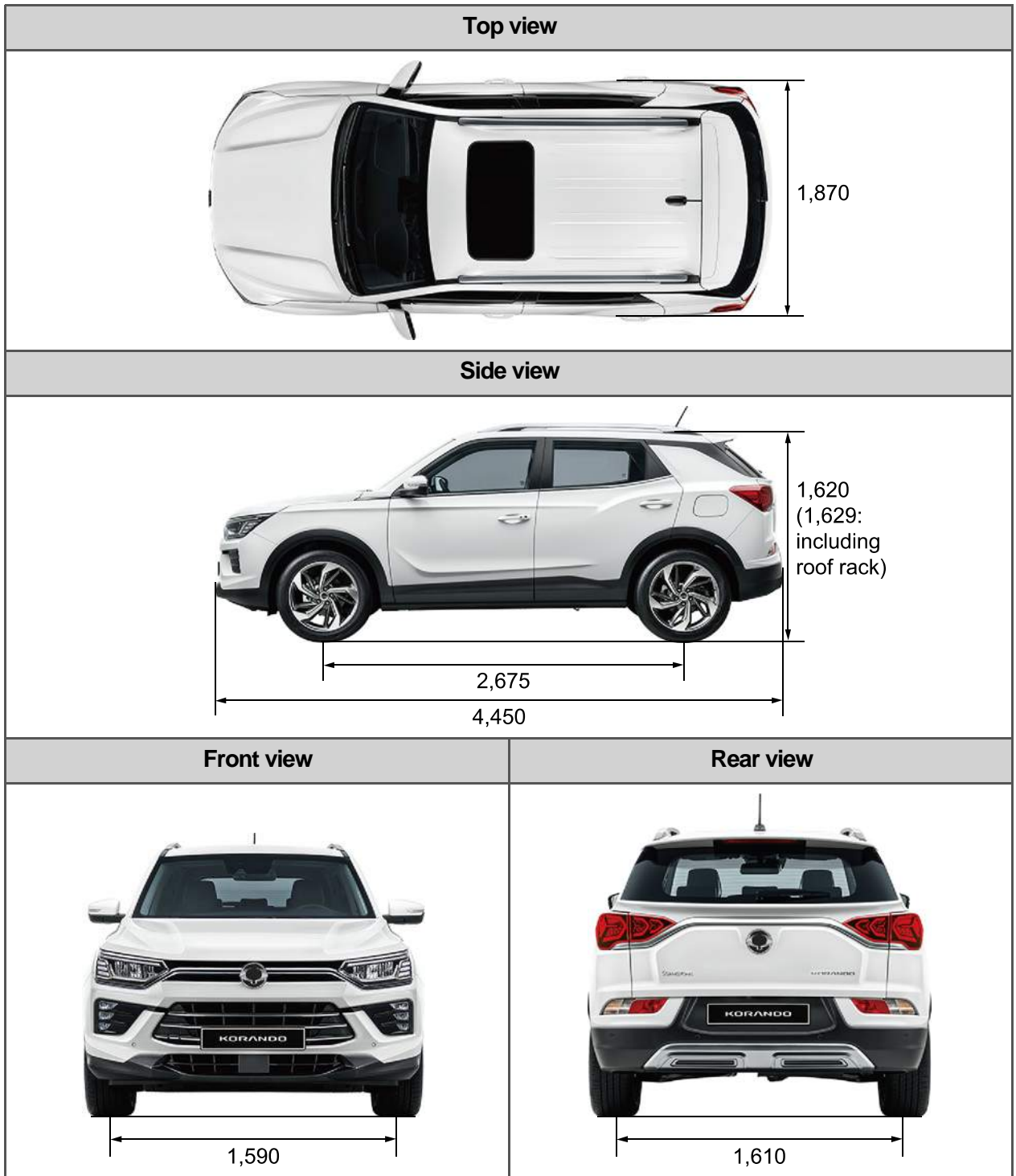
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VEHICLE GENERAL

1. SPECIFICATIONS AND IDENTIFICATION

1) Exterior Dimensions

Unit: mm



Modification basis	
Application basis	
Affected VIN	

3) Scheduled Maintenance Services

(1) Diesel Engine (EU)

* Use only approved Ssangyong genuine parts.

Maintenance service and record retention are the owner's responsibility. You should retain evidence that proper maintenance has been performed on your vehicle in accordance with the scheduled maintenance service chart.

Maintenance interval Maintenance item	Kilometers (miles) or time in months, whichever comes first								
	x1000 km	20	40	60	80	100	120	140	160
	x1000 miles	12.5	25	37.5	50	62.5	75	87.5	100
	Months	12	24	36	48	60	72	84	96

Engine control system

Drive belt	I	I	I	I	I	I	I	I
* Engine oil & filter *1 (1)* (3)* (4)*	R	R	R	R	R	R	R	R
	Shorten the service interval under severe conditions							
Cooling system hose & connections	I	I	I	I	I	I	I	I
Engine coolant (3)* (4)	Change every 200000 km or 5 years. And, inspect and replenish if necessary.							
Fuel filter (1)*	I	R	I	R	I	R	I	R
	Drain the water from fuel filter when the warning light comes on							
Fuel line & connections	I	I	I	I	I	I	I	I
Air cleaner (2)*	I	R	I	R	I	R	I	R
	Shorten the service interval under severe conditions							

Chart Symbols:

I - Inspect these items and their related parts. If necessary, correct, clean, replenish, adjust or replace.

*1 Check the engine oil level and leak every 3000 km (2000 miles) or before starting a long trip.

R - Replace or change.

(1)* If vehicle is operated under severe condition:

Shorten the service interval.

- Frequent stop-and-go traffic, extended idling, short driving distance below 6 km, driving distance below 16 km when the outside temperature remains below freezing
- Driving in a hilly or mountainous terrain, sandy, or dusty area
- High load driving such as trailer towing
- Taxi, patrol service or delivery service (extended idling and excessive driving with low speed)

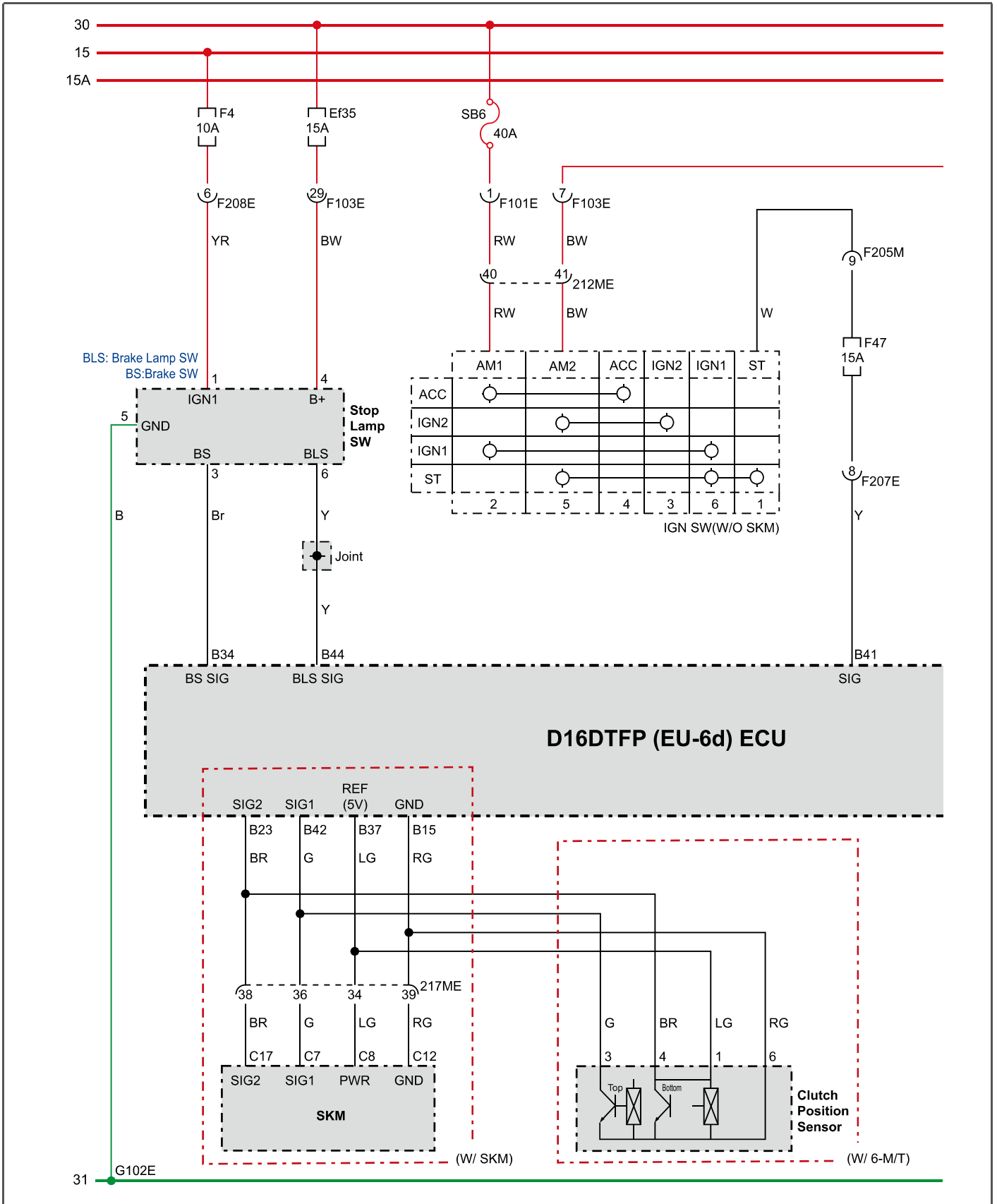
(2)* If vehicle is operated under severe condition, driving in dusty condition or sandy condition, pollutant area or off-road driving, frequently inspect the air cleaner, if necessary, change the air cleaner.

(3)* More frequent maintenance is required if under dusty driving condition.

(4)* Refer to "Recommended fluids, coolant and lubricants".

Modification basis	
Application basis	
Affected VIN	

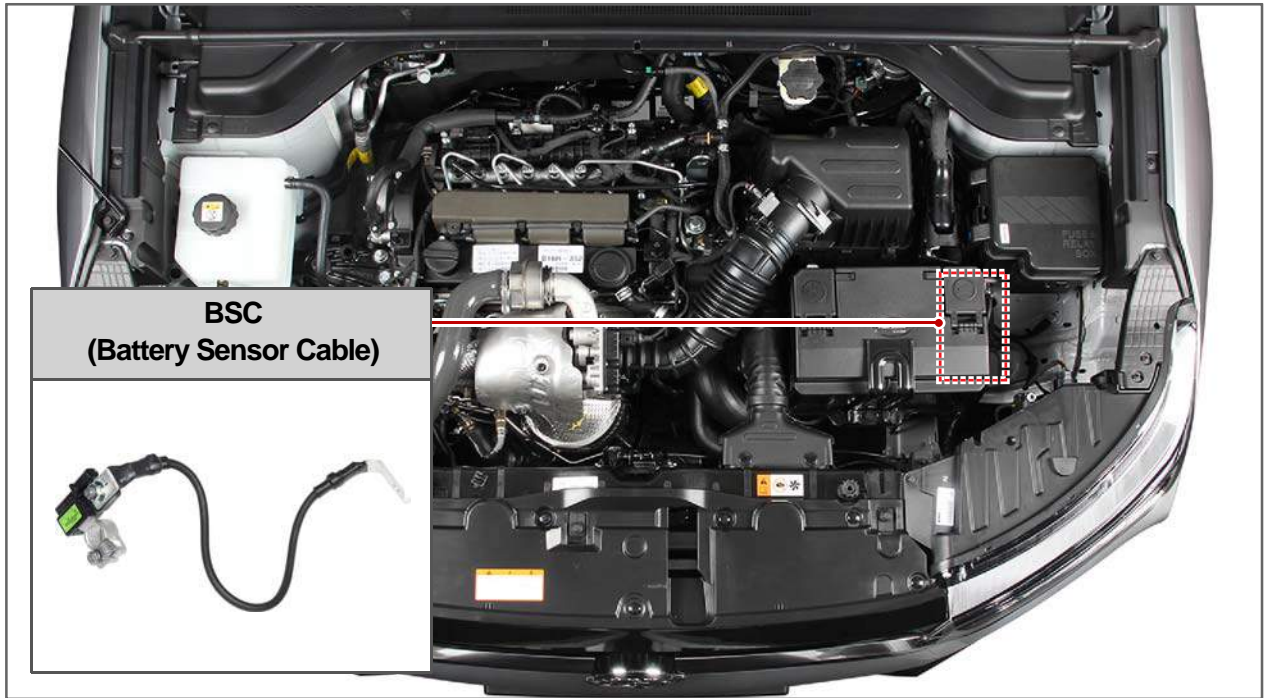
4. CIRCUIT DIAGRAM



Modification basis	
Application basis	
Affected VIN	

7. BSC(BATTERY SENSOR CABLE)

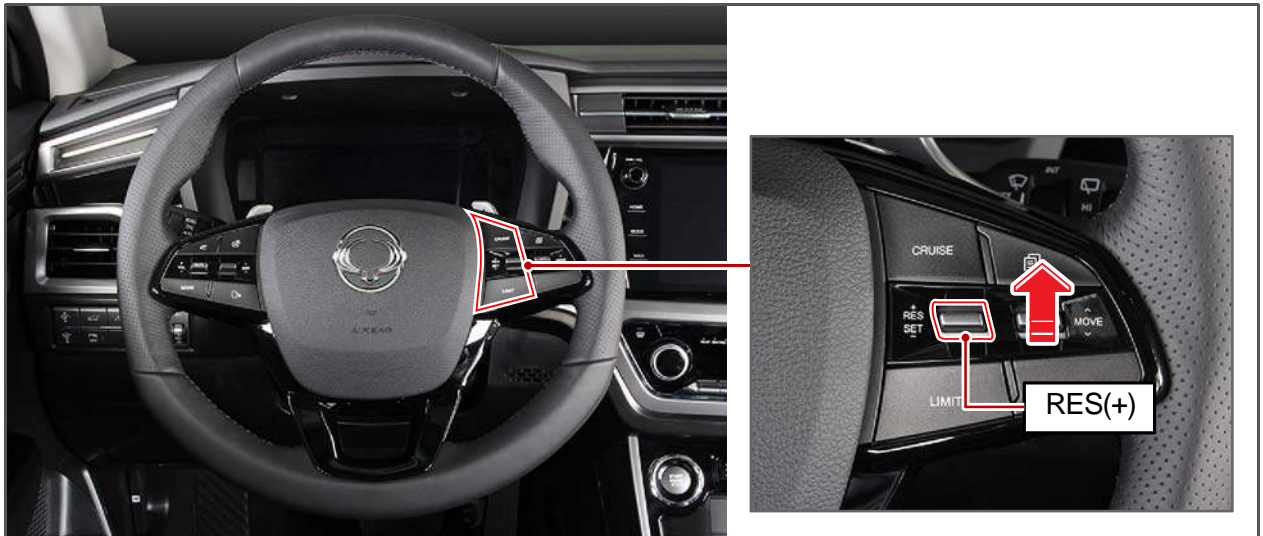
1) Overview & Mounting Location



The BSC is mounted on the battery's negative terminal and sends battery information (voltage, current, temperature, state of charge, etc.) to the ECU via LIN communication and monitors it to operate the ISG (Idle Stop & Go) system and EEM.

Modification basis	
Application basis	
Affected VIN	

4) How to restore set speed (RESUME)



If the cruise control disable conditions are met while the cruise control is in active, the cruise control will be deactivated. However, the previously set cruise control speed is stored in the ECU, and if you operate the switch toward "RES+" it will return to the previous cruise control set speed.

The speed should be 40 km/h and the brake or accelerator pedal should not be depressed.

► **RESUME (memorizing set speed value)**

While the cruise control is in active, RESUME is not activated when it is turned off with the LIMIT switch. RESUME is not activated if you press the CRUISE switch or LIMIT switch when the cruise control is in READY mode.

Switch	Operation type	Switching to READY mode
CRUISE	Briefly	while returning to set speed (RESUME) (set speed stored)
+ / Res	Briefly (less than 0.8 s)	When current speed higher than set speed - Increase set speed in increments of 1 km/h
	Press and hold (more than 0.8 s)	When current speed higher than set speed - Increase set speed in increments of 5 km/h every 0.8 sec
- / Set	Briefly (less than 0.8 s)	When current speed lower than set speed - Set to current vehicle speed When current speed higher than set speed - Decrease set speed in increments of 1 km/h
	Press and hold (more than 0.8 s)	When current speed higher than set speed - Decrease set speed in increments of 5 km/h every 0.8 sec
LIMIT	Briefly	while returning to set speed (RESUME) (set speed stored)

Modification basis	
Application basis	
Affected VIN	

31. PANIC ALARM (FOR VEHICLES WITHOUT SKM)

Operation 1. (for vehicles without SKM)

The panic alarm is operated with the ignition key removed.

- A. Panic alarm signal received from REKES key
- B. Warning horn sounds and turn signal light flashes at cycles of 0.5 sec ON and 0.5 sec OFF for 30 sec
- C. REKES key LOCK / UNLOCK signal received during panic alarm operation
- D. The received function will operated while the panic alarm is operating.
- E. If a theft deterrent alarm is issued during panic alarm operation, the panic function is canceled and a theft deterrent alarm is activated.
- F. The panic alarm is deactivated only when REKES key panic signal is re-received, during panic alarm operation.

Operation 2. (for vehicles with SKM)

The panic alarm is operated with the ignition turned off.

- A. Panic alarm signal received from smart key
- B. Warning horn sounds and turn signal light flashes at cycles of 0.5 sec ON and 0.5 sec OFF for 30 sec
Smart key LOCK / UNLOCK signal received during panic alarm operation
- C. The received function will operated while the panic alarm is operating.
- D. If a theft deterrent alarm is issued during panic alarm operation, the panic function is canceled and a theft deterrent alarm is activated.
- E. theft deterrent alarm is activated.
The panic alarm is deactivated only when smart key panic signal is re-received, during panic alarm operation.
- F. operation.

Operation 3. (Panic alarm ON by CCU)

The panic alarm operates with IGN OFF and the engine started by the remote control.

- A. Remote panic alarm ON signal received by CCU
- B. Warning horn sounds and turn signal light flashes at cycles of 0.5 sec ON and 0.5 sec OFF for 30 sec
- C. Panic function extended when remote panic alarm signal re-received
- D. If a theft deterrent alarm is issued during panic alarm operation, the panic function is canceled and a theft deterrent alarm is activated.

Operation 4. (Panic alarm OFF by CCU)

- E. The panic alarm is turned off immediately when the remote panic alarm by CCU is received or smart key panic signal is received during panic alarm operation.

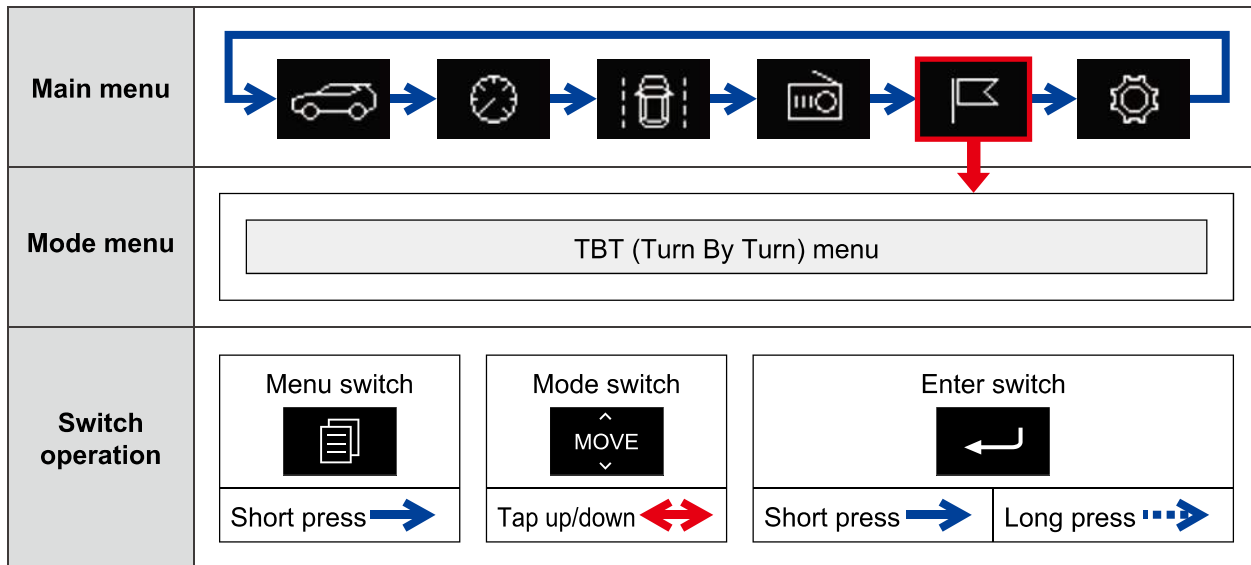


NOTE

The panic alarm does not operate with IGN ON.

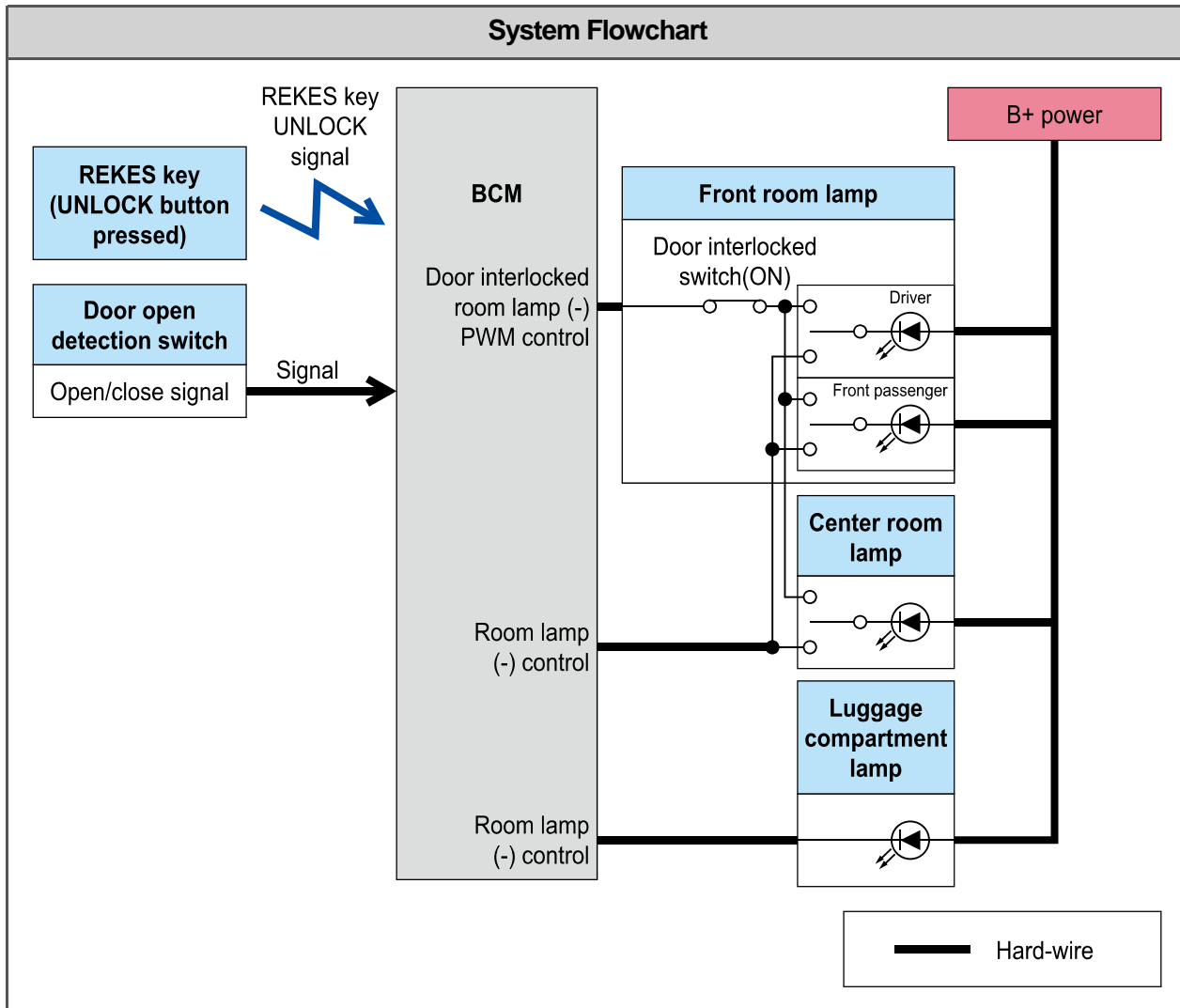
Modification basis	
Application basis	
Affected VIN	

5) TBT Menu



Item	3.5" instrument cluster	
	Linked with navigation	Navigation turned off
Display		
TBT display range	The instrument cluster is linked to the navigation system and displays part of the navigation screen information.	The compass is displayed when the navigation is turned off.

Modification basis	
Application basis	
Affected VIN	



NOTE

The luggage room lamp is interlinked with the tailgate. The lamp is turned on or off when the tailgate is open or closed.

Modification basis	
Application basis	
Affected VIN	

6) Rear View Camera

(1) To ensure safety, a rear view camera will operate when the vehicle is driving in reverse.

- When the gear is shifted to reverse (R), the rear view camera will operate with priority over every other mode.
- Once the shift gear is moved out of reverse (R), the device will restore the previously operating mode. Sound and mute features are supported while the rear view camera is operating.



1. Turn ignition switch to ON or IGN position.
2. Shift the gear position to reverse (R).

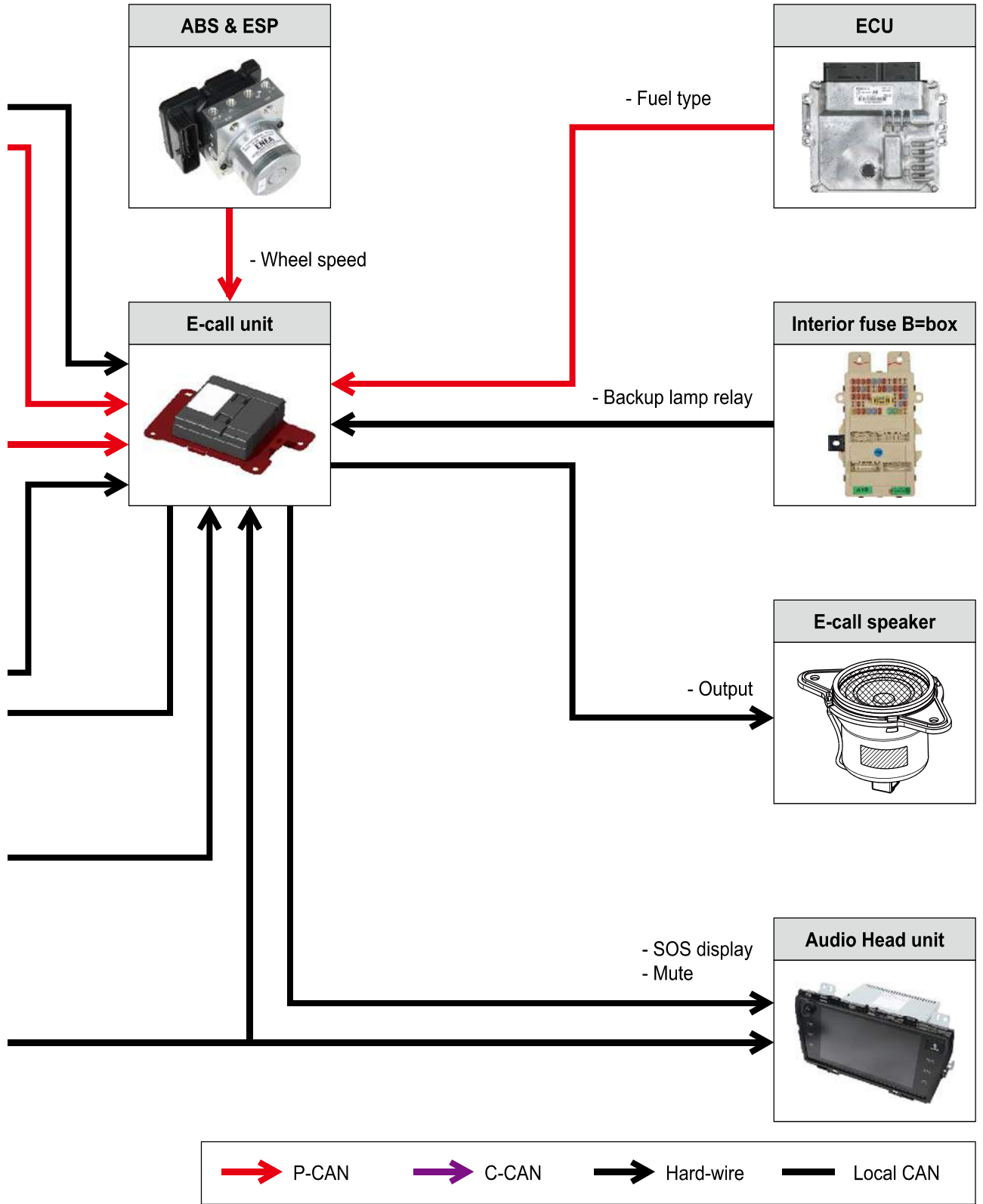
CAUTION

- The rear view shown through the device display may differ from the actual distance. Be sure to check your actual surroundings when backing up for additional safety.
- When operating the rear view camera, heed caution as the warning text and parking guide lines may make obstacles less visible.

WARNING

- The rear view camera is unavailable during updates. Make sure to park your vehicle before conducting updates and start driving only after the update is complete.
- Only sound and incoming call features will be available when the rear view camera is operating.

Modification basis	
Application basis	
Affected VIN	



Modification basis	
Application basis	
Affected VIN	

- FUSE AND
- BCM
- SKM
- INSTRUMENT
- INSTRUMENT
- FCM/FRM
- SWITCH
- EXTERIOR LAMP
- INTERIOR LAMP
- WIPER AND
- MP3 AUDIO
- SMART AUDIO
- AVN
- AC INVERTE
- CGW
- PTG
- SD

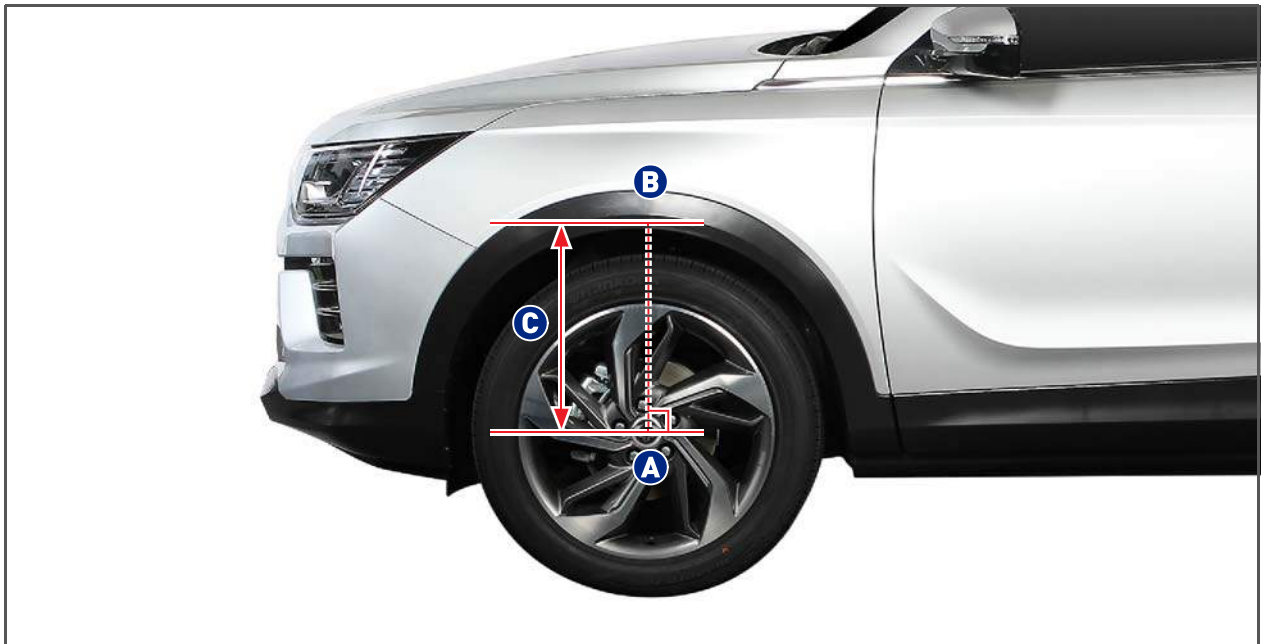
4) Trim Height

Incorrect trim height may damage the suspension components or cause problems related to wheel alignment. Therefore, check the trim height before checking wheel alignment when troubleshooting the suspension.



NOTE

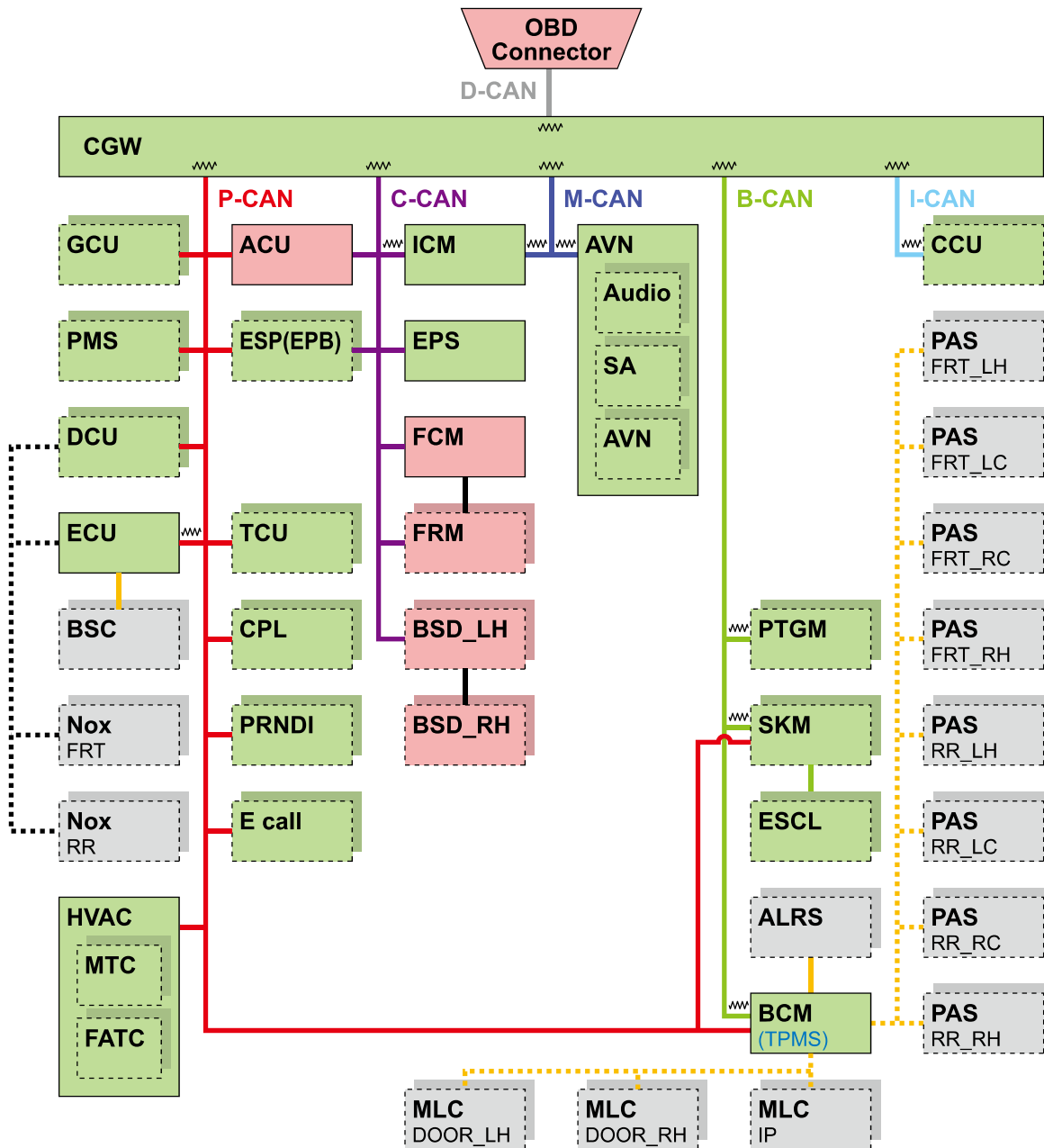
Trim height: Distance (C) from the wheel center (A) to the point where an imaginary vertical line from the wheel center meets the bottom of the wheel arch (B) with the vehicle unladen.



Position	2WD/AWD
Front	439 mm
Rear	435 mm

Modification basis	
Application basis	
Affected VIN	

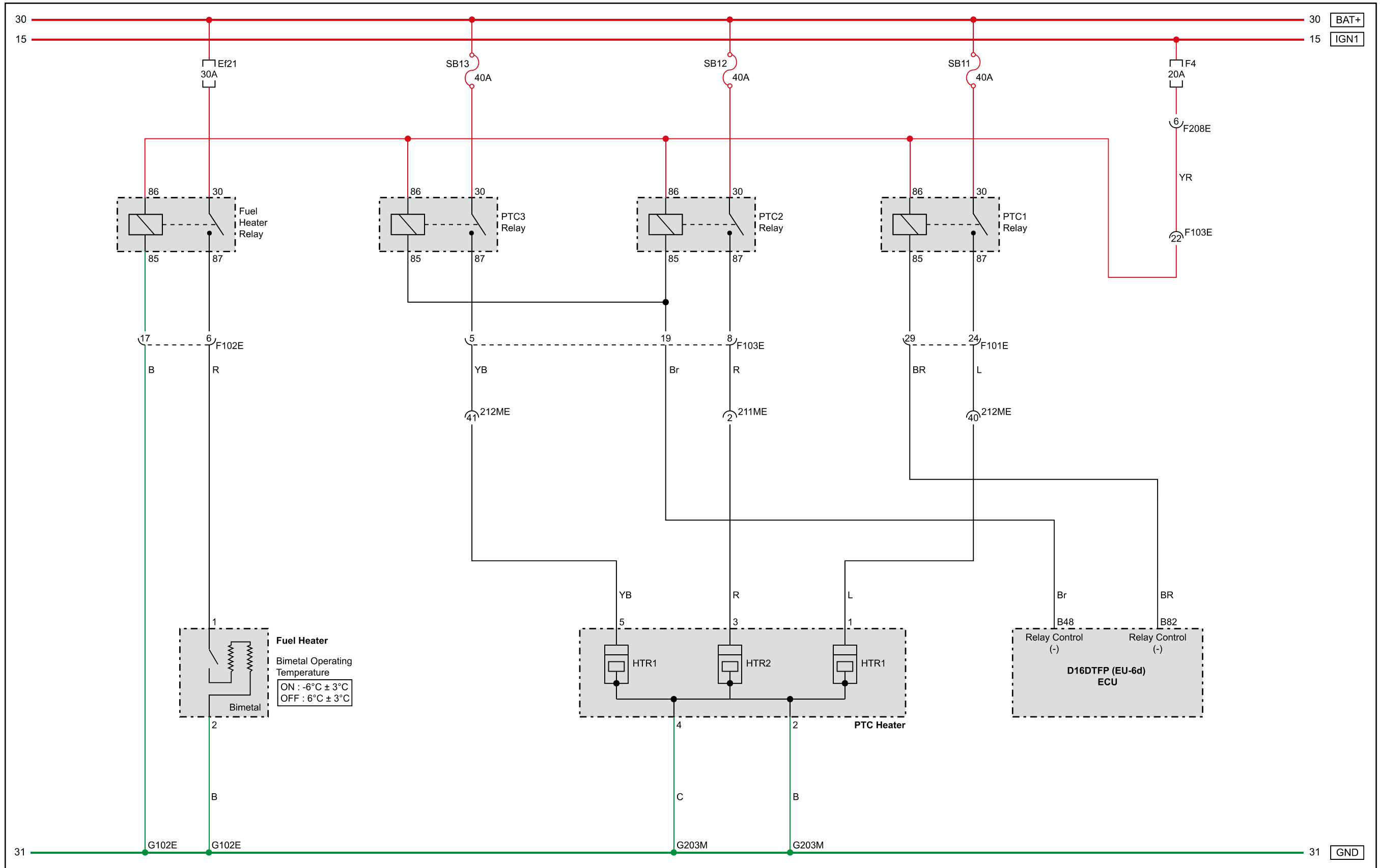
2. CAN COMMUNICATION CONFIGURATION



<p>Power supply</p> <p>B+ Ordinary power</p> <p>IGN IGN ON</p> <p>None N/A</p>	<p>Specification marking</p> <p>STD Standard</p> <p>OPT Option</p>	<p>Terminating resistance</p> <p>Terminating resistance</p>	<p>Name classification</p> <p>[Name] Name</p> <p>(Alias Name) Alias</p>
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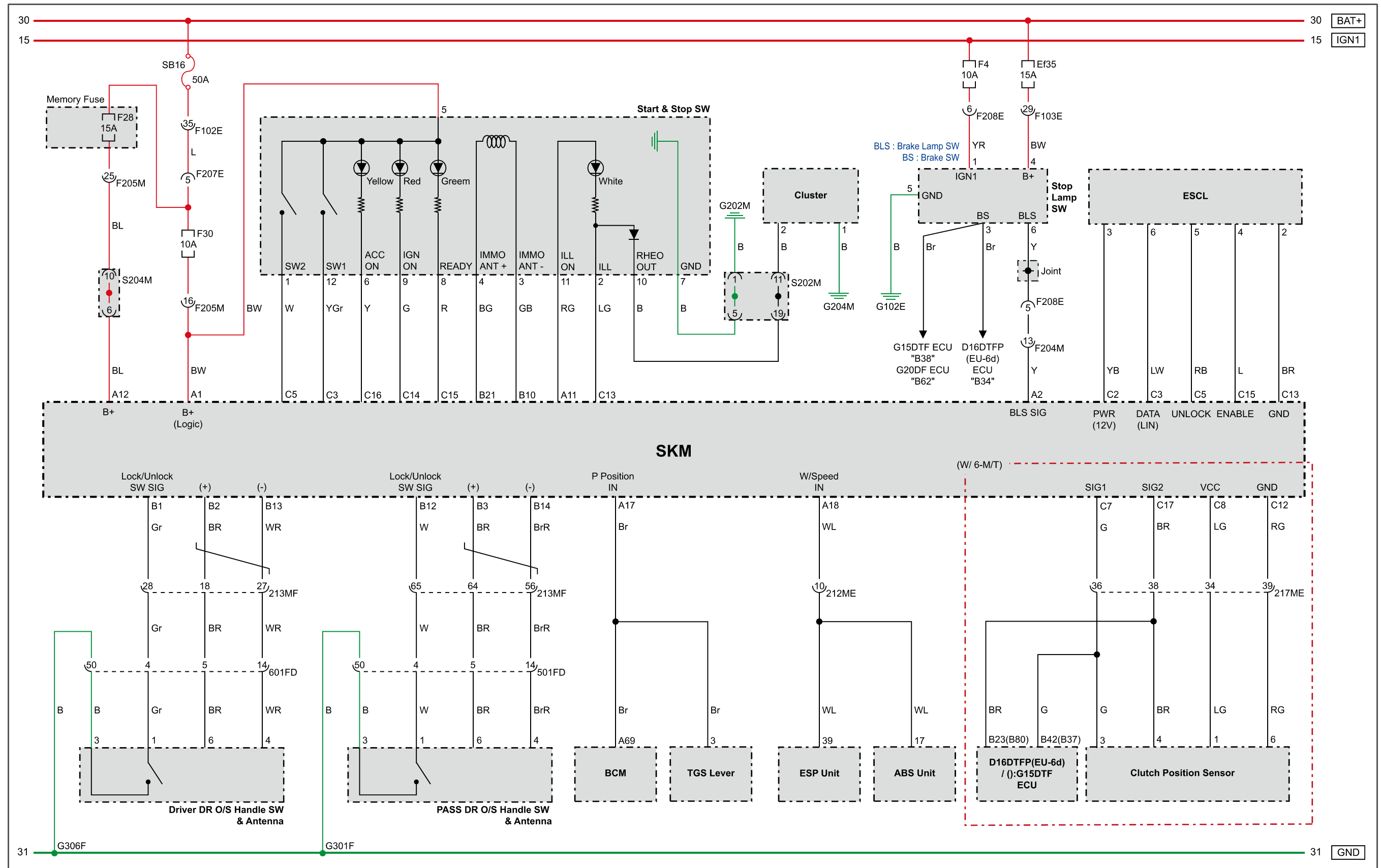
Modification basis	
Application basis	
Affected VIN	

S.G.N. **681015 PTC HEATER / FUEL HEATER(D16DTFP)**



Modification basis	
Application basis	
Affected VIN	

2. START & STOP SW, STOP LAMP SW, DR O/S HANDLE SW & ANTENNA



Modification basis	
Application basis	
Affected VIN	

1) CONNECTOR

Connector	Pin	Color	Connecting Wiring Harness	Connector Position	emark
F102E	40	Gray	W/H Eng Room - Eng Room Fuse & Relay Box	Eng Room Fuse & Relay Box	
F205M	25	White	W/H Main - I/P Fuse & Relay Box	I/P Fuse & Relay Box	
F207E	16	White	W/H Eng Room - I/P Fuse & Relay Box	I/P Fuse & Relay Box	
215MF	77	White	W/H Main - W/H FRT Console	Behind Audio	

2) GROUND

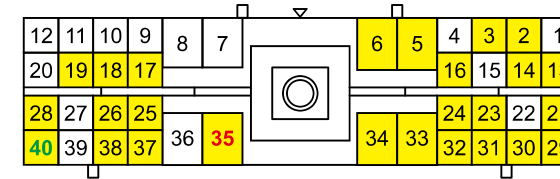
Ground	Connecting Wiring Harness	Connector Position	Remark
G202M	W/H Main	Beside the Cluster(IP Panel Frame LH)	

3) SPLICE PACK

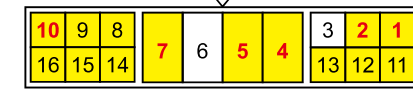
Splice Pack	Pin	Connecting Wiring Harness	Connector Position	Remark
S203M	14	W/H Main	Beside the PASS Airbag	B-CAN

4) CONNECTOR IDENTIFICATION SYMBOL & PIN NUMBER POSITION

W/H ENG ROOM

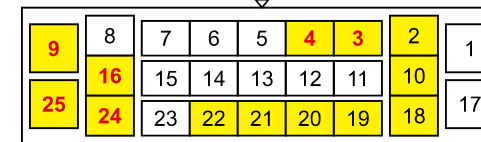


F102E W/H Eng Room
(Eng Room Fuse & Relay Box)

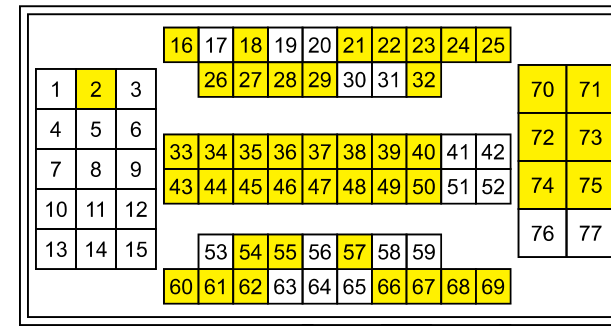


F207E W/H Eng Room
(I/P Fuse & Relay Box)

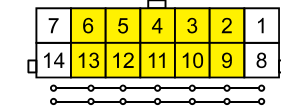
W/H IP(MAIN)



F205M W/H Main
(I/P Fuse & Relay Box)

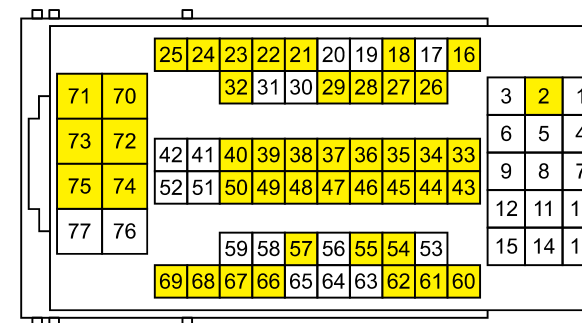


215MF
W/H Main

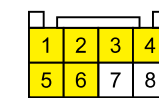


S203M
(B-CAN)

W/H FRT CONSOLE



215MF
W/H FRT Console



WPC