

ELECTRONIC GENERAL

0000-00

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شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران

دیجیتال خودرو

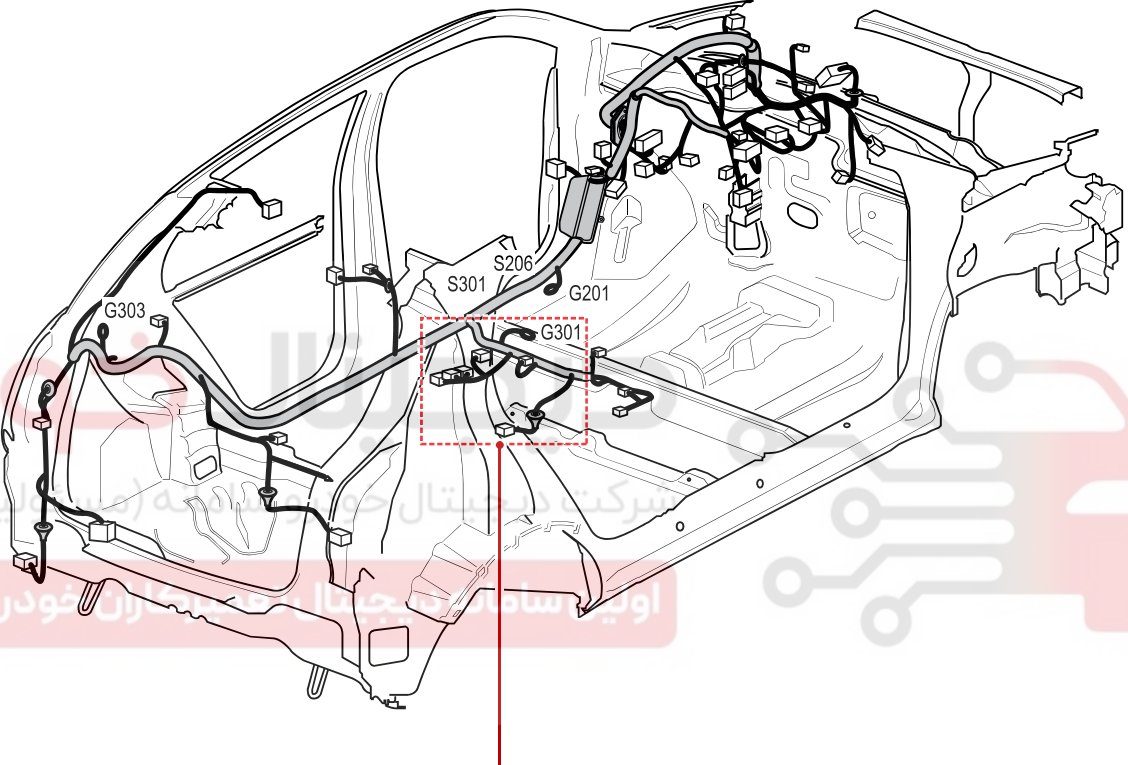
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ELECTRONIC GENERAL**0000-00****GENERAL INFORMATION****1. MAJOR CHANGES (as of Feb. 2014)****1) LH Floor Wiring Changed**

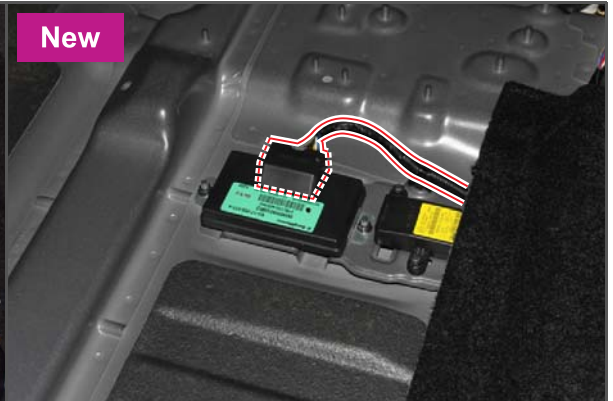
LH floor wiring



Old



New



LH floor wiring route and connector pin arrangement changed due to change of mounting location for E-coupling control unit (floor panel under driver seat → floor panel under front passenger seat)

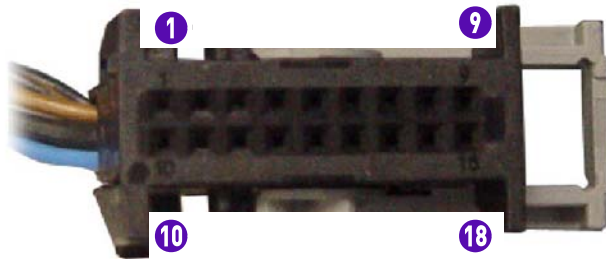
Modification basis	
Application basis	
Affected VIN	

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2) E-coupling Control Unit Connector Changed

► Up to and including Feb. 2014



Pin No.	Function	Pin No.	Function
1	Ground	10	B+
2	-	11	Ground, EMCD
3	4WD LOCK mode switch	12	Power, EMCD
4	-	13	IGN 1
5	-	14	-
6	-	15	-
7	-	16	-
8	-	17	CAN High
9	-	18	CAN Low

► After Feb. 2014



Pin No.	Function	Pin No.	Function
1	-	14	-
2	-	15	-
3	-	16	-
4	4WD LOCK mode switch	17	-
5	-	18	-
6	-	19	-
7	-	20	-
8	CAN High	21	-
9	CAN Low	22	-
10	-	23	IGN 1+
11	Electromagnetic coil driver	24	Electromagnetic coil return
12	Ground	25	-
13	B+	26	-

Modification basis	
Application basis	
Affected VIN	

2. EXTERIOR LAMP SYSTEM LAYOUT

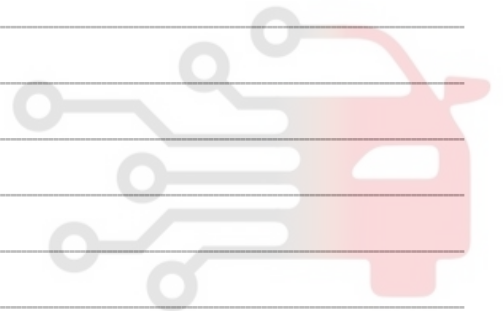


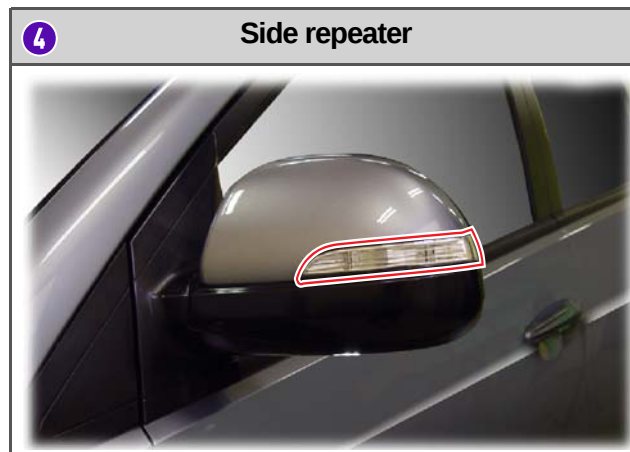
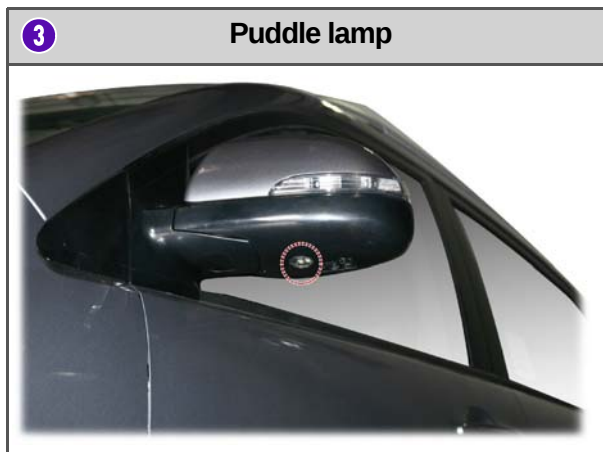
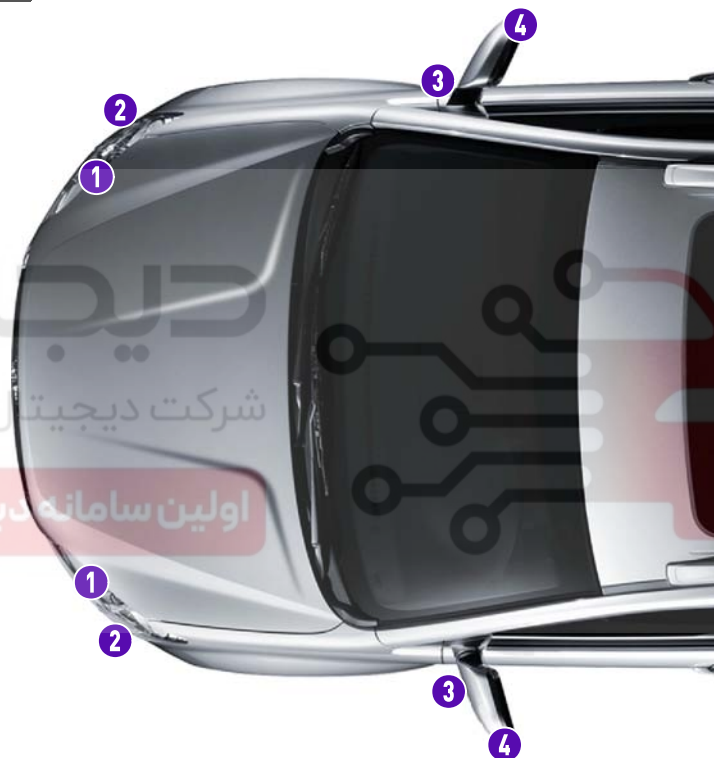
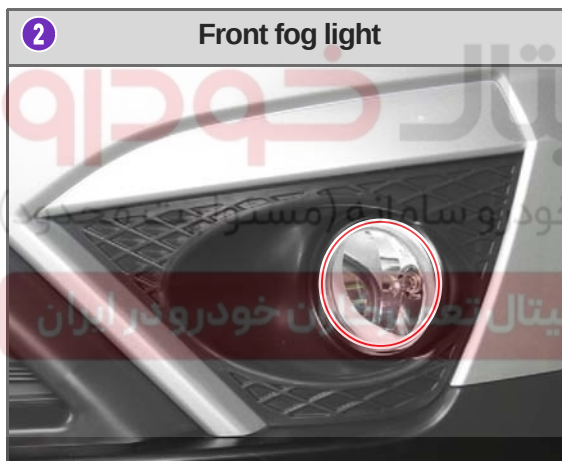
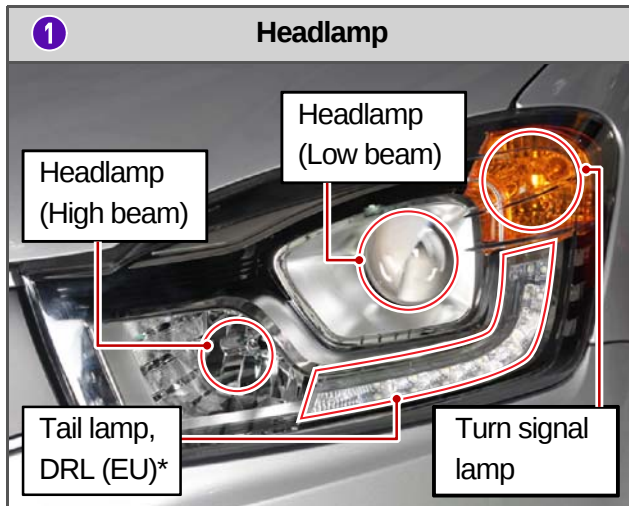
Memo

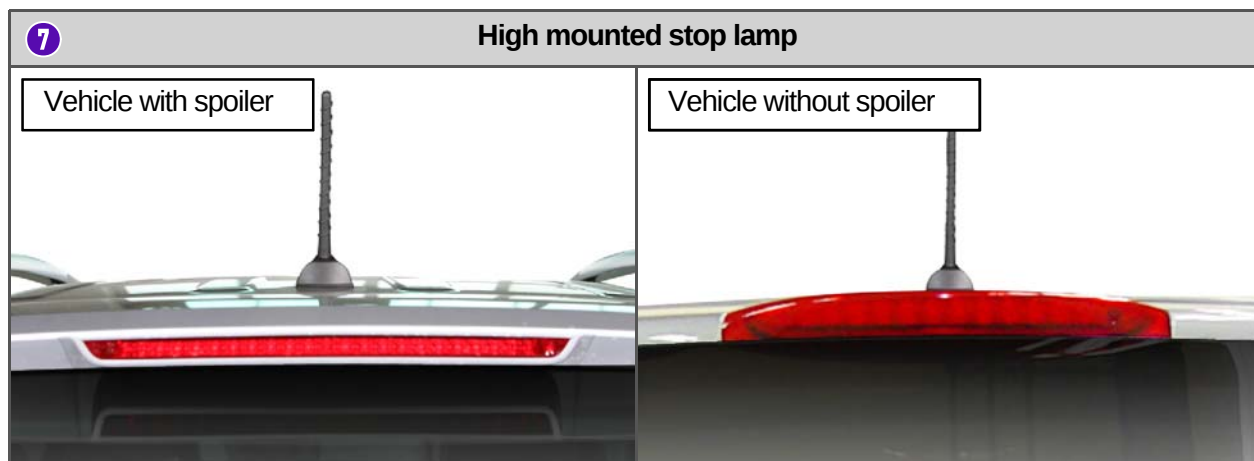
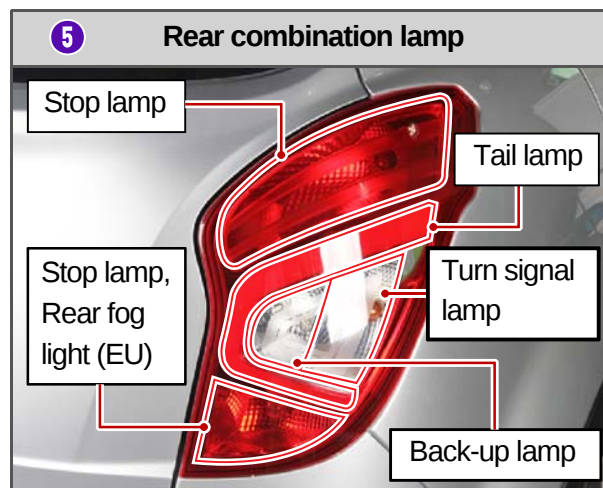
دیجیتال خودرو

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اولین سامانه دیجیتال تعمیرکاران خودرو در ایران

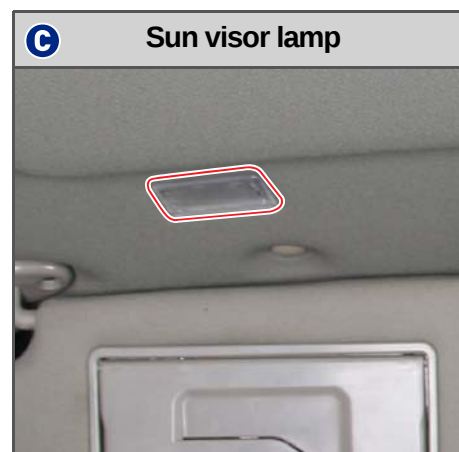
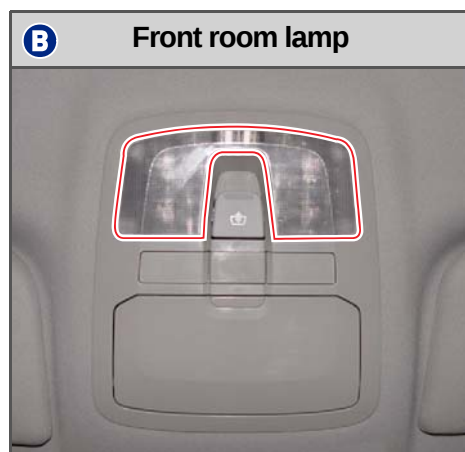
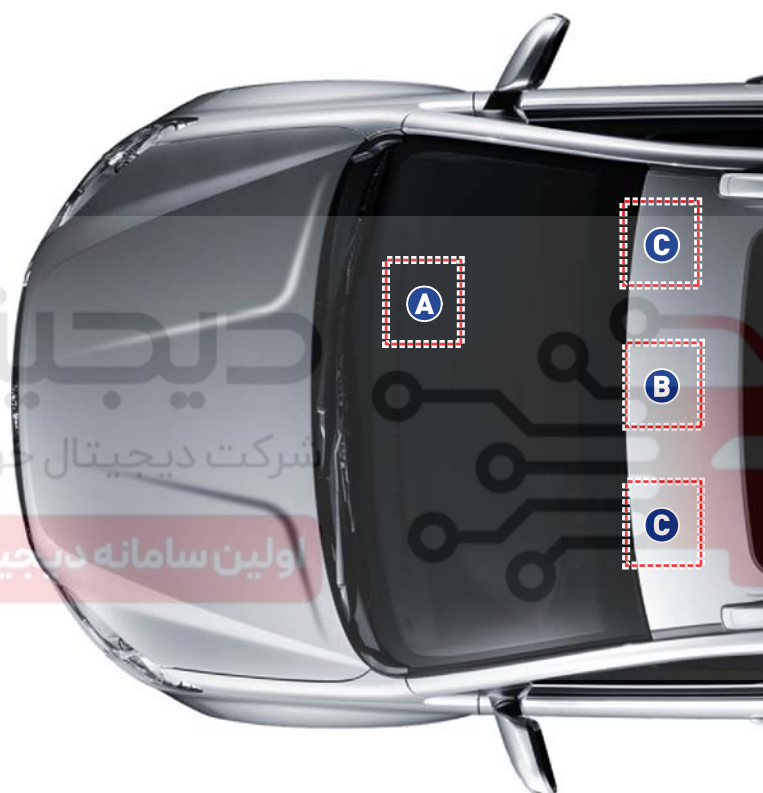


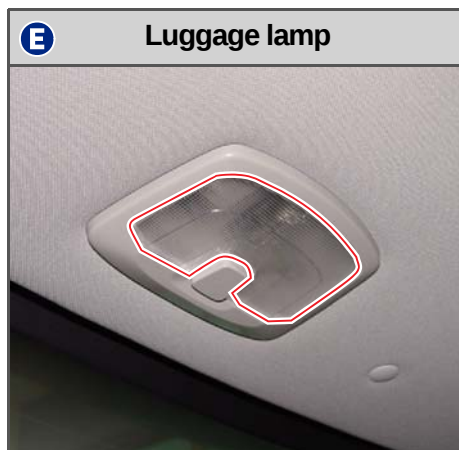
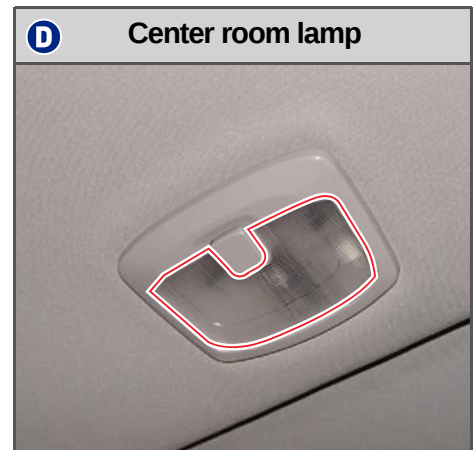




Modification basis	
Application basis	
Affected VIN	

3. INTERIOR LAMP SYSTEM LAYOUT





ELECTRONIC
NIC
FUSE
BCM
SKM
INSTRUMENT
INSTRUMENT
SWITCH
LAMP
WIPER AND
PAS
AUDIO SYSTEM

Modification basis	
Application basis	
Affected VIN	

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4. SWITCH SYSTEM LAYOUT

Steering wheel remote control switch



Start/stop switch



Passenger door switch



Cruise control switch



Multifunction switch



Lower main panel switch



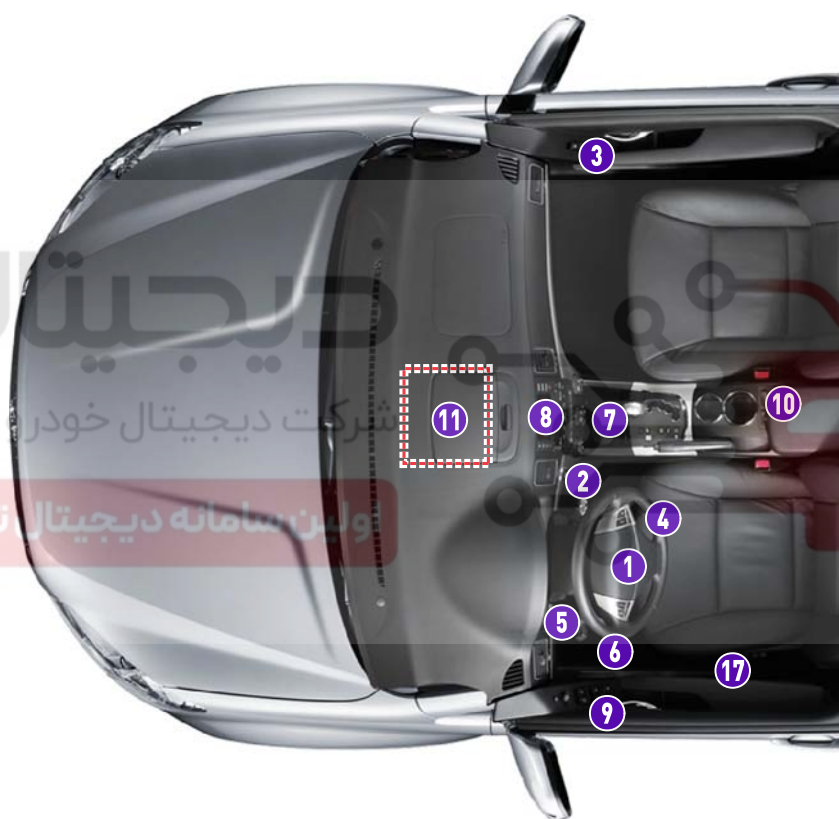
FATC switch



Hazard warning switch bezel assembly



Drive door main switch & Outside rearview mirror switch



Front seat heating and ventilation switch

With heating and ventilation switch



With heating switch



Overhead console switch

11



Center room lamp switch

12



Luggage lamp switch

13



Tailgate switch

14



Driver power seat switch

17



Rear door switch (RH)

16



Rear door switch (LH)

15



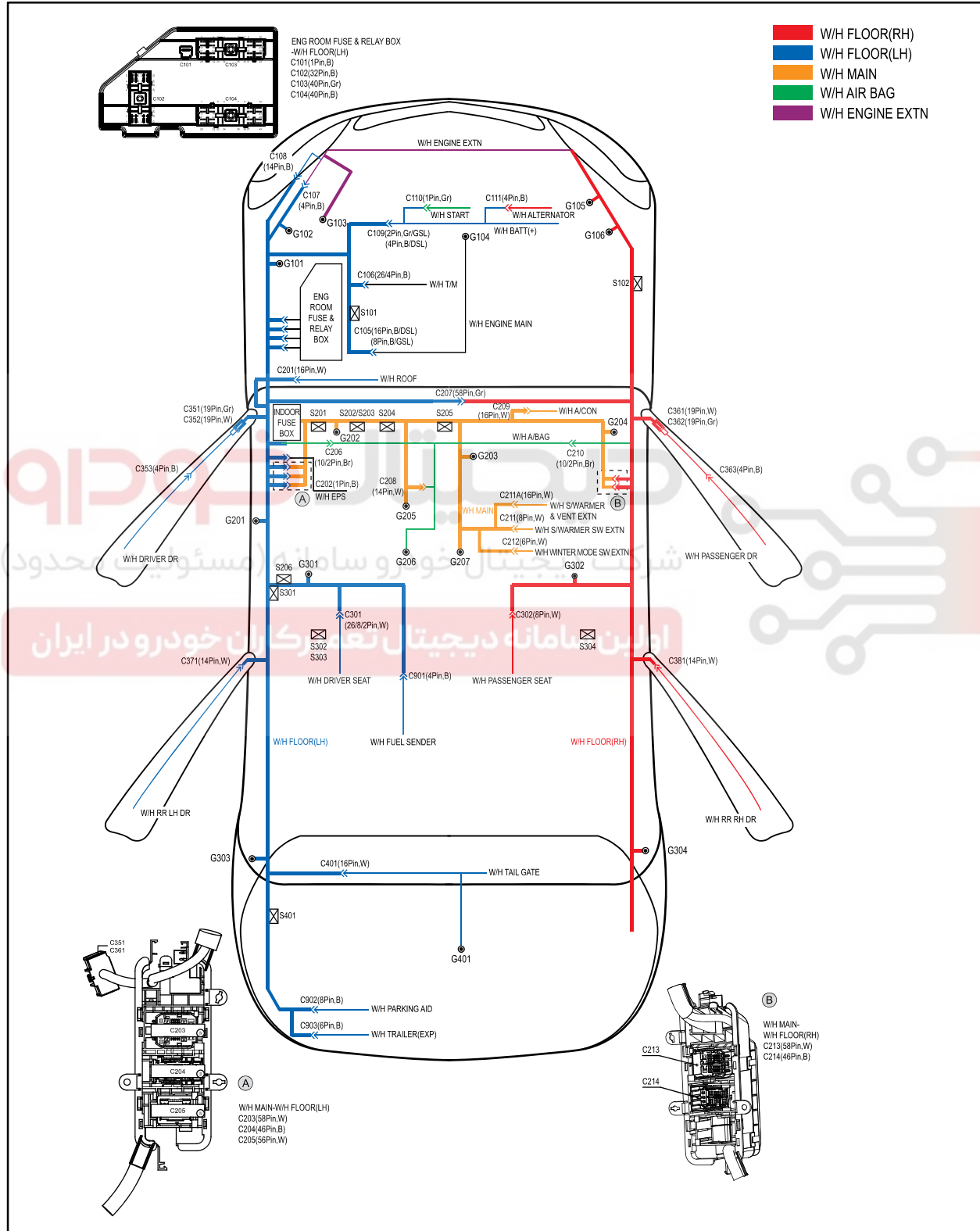
Modification basis	
Application basis	
Affected VIN	

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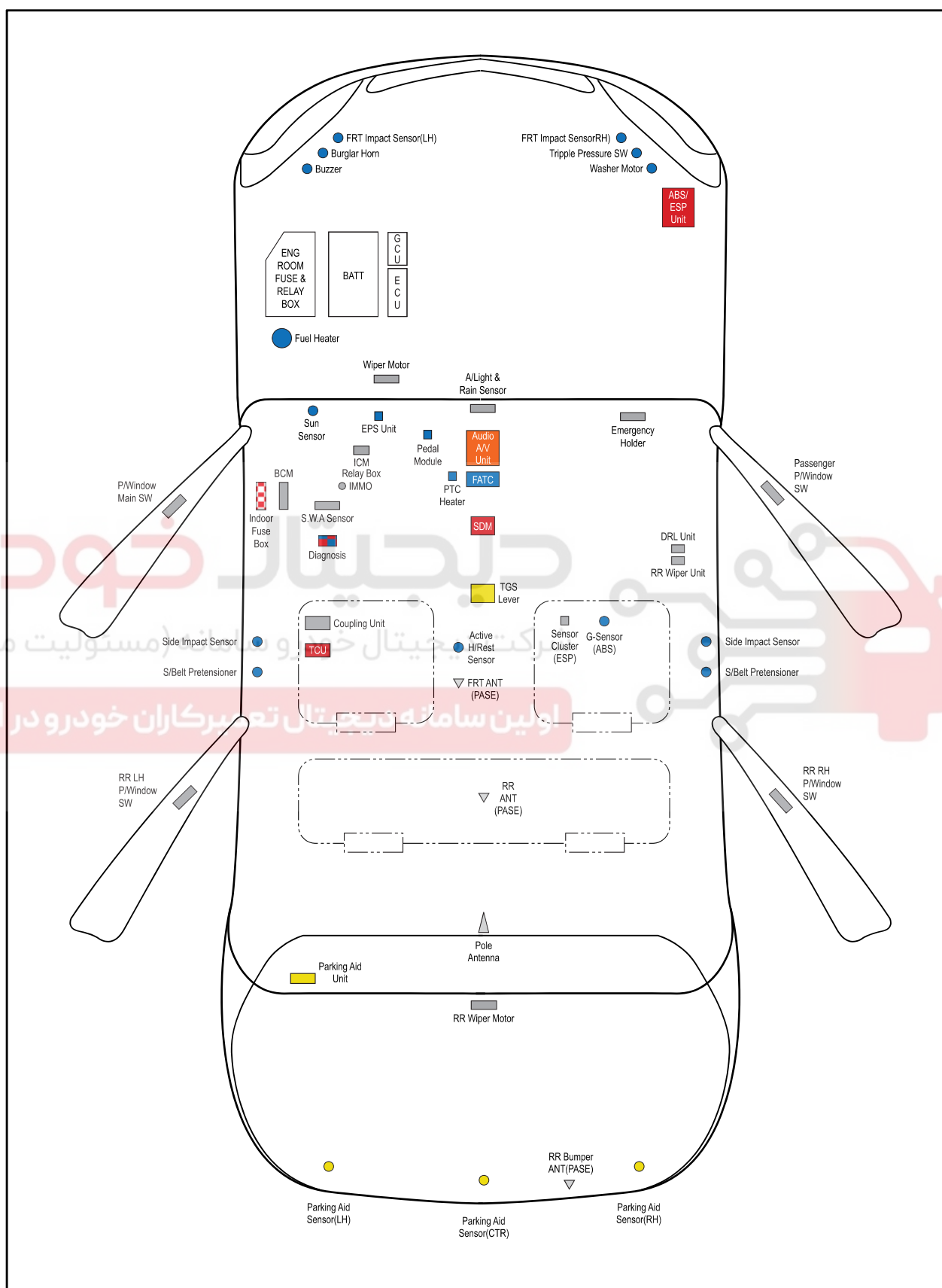
5. SCHEMATIC DIAGRAM FOR WIRING AND ELECTRICAL DEVICES

1) Wiring Harness Arrangement



Modification basis	
Application basis	
Affected VIN	

2) Electrical Devices Mounting Locations



Modification basis	
Application basis	
Affected VIN	

3) Connector, Ground And Splice Pack

► Connector

Connector Number (Pin Number/Color)			Connecting Wiring Harness	Connector Position	Remark
C101	1	Black	W/H Floor(LH) - Eng Room Fuse & Relay Box	Eng Room Fuse & Relay Box	
C102	32	Black	W/H Floor(LH) - Eng Room Fuse & Relay Box	Eng Room Fuse & Relay Box	
C103	40	Gray	W/H Floor(LH) - Eng Room Fuse & Relay Box	Eng Room Fuse & Relay Box	
C104	40	Black	W/H Floor(LH) - Eng Room Fuse & Relay Box	Eng Room Fuse & Relay Box	
C105	8	Black	W/H Floor(LH) - W/H Eng	Upper BATT Tray(Beside Fuel Heater)	GSL
	16	Black	W/H Floor(LH) - W/H Eng	Upper BATT Tray(Beside Fuel Heater)	DSL
C106	26	Black	W/H Floor(LH) - W/H T/M	Upper T/M(Under BATT Tray)	A/T
	4	Black	W/H Floor(LH) - W/H T/M	Upper T/M(Under BATT Tray)	M/T
C107	4	Black	W/H Floor(LH) - W/H Eng EXTN	Inside FRT Bumper(Behind LH Fog Lamp)	
C108	14	Black	W/H Floor(LH) - W/H Eng EXTN	Inside FRT Bumper(Behind LH Fog Lamp)	
C109	2	Gray	W/H Floor(LH) - W/H BATT(+)	Lower Air Cleaner Duct	GSL
	4	Black	W/H Floor(LH) - W/H BATT(+)	Lower Air Cleaner Duct	DSL
C110	1	Gray	W/H BATT(+) - Start Solenoid	Beside Starter Motor	
C111	4	Black	W/H BATT(+) - Alternator	Beside Alternator	
	2	Black	W/H BATT(+) - Alternator	Beside Alternator	LOW CO ₂
C201	16	White	W/H Floor(LH) - W/H Roof	Upper Driver Cowl Side Connector Holder	
C202	1	Black	W/H Main - W/H Floor(LH)	Driver Cowl Side Connector Holder	EPS
C203	58	White	W/H Main - W/H Floor(LH)	Driver Cowl Side Connector Holder	
C204	46	Black	W/H Main - W/H Floor(LH)	Driver Cowl Side Connector Holder	
C205	56	White	W/H Main - W/H Floor(LH)	Driver Cowl Side Connector Holder	
C206	10	Brown	W/H Air Bag - W/H Air Bag EXTN	Driver Cowl Side Connector Holder	Curtain/Side A/Bag
	2	Brown	W/H Air Bag - W/H Air Bag EXTN	Driver Cowl Side Connector Holder	
C207	58	Gray	W/H Floor(LH) - W/H Floor(RH)	Upper CTR Dash PNL	
C208	14	White	W/H Main - W/H Air Bag	Inside I.P (Upper Driver LegRoom)	
C209	16	White	W/H Main - W/H Air Con	Inside I.P (Upper CTR Cowl Cross Member)	
C210	10	Brown	W/H Air Bag - W/H Air Bag EXTN	Passenger Cowl Side Connector Holder	Curtain/Side A/Bag
	2	Brown	W/H Air Bag - W/H Air Bag EXTN	Passenger Cowl Side Connector Holder	
C211	8	White	W/H Main - W/H Seat Warmer switch EXTN	Inside Console	A/T, M/T DLX
C211A	16	White	W/H Main - W/H Seat Warmer/VENT switch EXTN	Inside Console	VENT SW
C212	6	White	W/H Main - W/H Winter Mode switch EXTN	Inside Console	A/T, DSL
C213	58	White	W/H Main - W/H Floor(RH)	Passenger Cowl Side Connector Holder	
C214	46	Black	W/H Main - W/H Floor(RH)	Passenger Cowl Side Connector Holder	
C301	26	White	W/H Floor(LH) - W/H Driver Seat	Under Driver Seat	Vent & Power Seat
	8	White	W/H Floor(LH) - W/H Driver Seat	Under Driver Seat	S/Warmer, Active
	2	White	W/H Floor(LH) - W/H Driver Seat	Under Driver Seat	
C302	8	White	W/H Floor(RH) - W/H Passenger Seat	Under Passenger Seat	
C351	19	Gray	W/H Floor(LH) - W/H Driver DR	Under LH A Pillar	
C352	19	White	W/H Floor(LH) - W/H Driver DR	Under LH A Pillar	
C353	4	Black	W/H Driver DR - W/H Smart Key	Inside Driver DR	Smart Key
C361	19	White	W/H Floor(RH) - W/H Passenger DR	Under RH A Pillar	
C362	19	Gray	W/H Floor(RH) - W/H Passenger DR	Under RH A Pillar	
C363	4	Black	W/H Passenger DR - W/H Smart Key	Inside Passenger DR	Smart Key
C371	14	White	W/H Floor(LH) - W/H RR LH DR	Under LH B Pillar	
C381	14	White	W/H Floor(RH) - W/H RR RH DR	Under RH B Pillar	
C401	16	White	W/H Floor(LH) - W/H Tail Gate	Upper Tail Gate LH	
C901	4	Black	W/H Floor(LH) - W/H Fuel Sender	FRT Fuel Tank	
C902	8	Black	W/H Floor(LH) - W/H RR Bumper	Under RR LH Bumper	PAS
C903	6	Black	W/H Floor(LH) - W/H Trailer	Under RR LH Bumper	

► Ground

Connector Number	Connecting Wiring Harness	Connector Position	Remark
G101	W/H Floor(LH)	Behind LH Head Lamp	
G102	W/H Floor(LH)	Under BATT Tray	ECU
G103	W/H Eng EXTN	Under BATT Tray	
G104	W/H Eng Main	FRT Intake Valve	
G105	W/H Floor(RH)	Behind RH Head Lamp	
G106	W/H Floor(RH)	Beside ABS/ESP Unit	ABS/ESP
G201	W/H Floor(LH)	Under Driver Cowl Side Connector Holder	
G202	W/H Main	Backside Cluster(LH Cowl Cross Member)	AUDIO
G203	W/H Main	Backside Audio(CTR Cowl Cross Member)	
G204	W/H Main	Inside I.P(RH Glove Box)	
G205	W/H Main	Left Side I.P(Beside CTR Support BRKT)	PTC
G206	W/H Main	Left Under TGS Lever	AIR BAG
G207	W/H Main	Right Under TGS Lever	EPS
G301	W/H Floor(LH)	Under Driver Seat	
G302	W/H Floor(RH)	Under Passenger Seat	
G303	W/H Floor(LH)	Driver QTR PNL	
G304	W/H Floor(RH)	Passenger QTR PNL	
G401	W/H Tail Gate	CTR Under Tail Gate	

► Splice pack

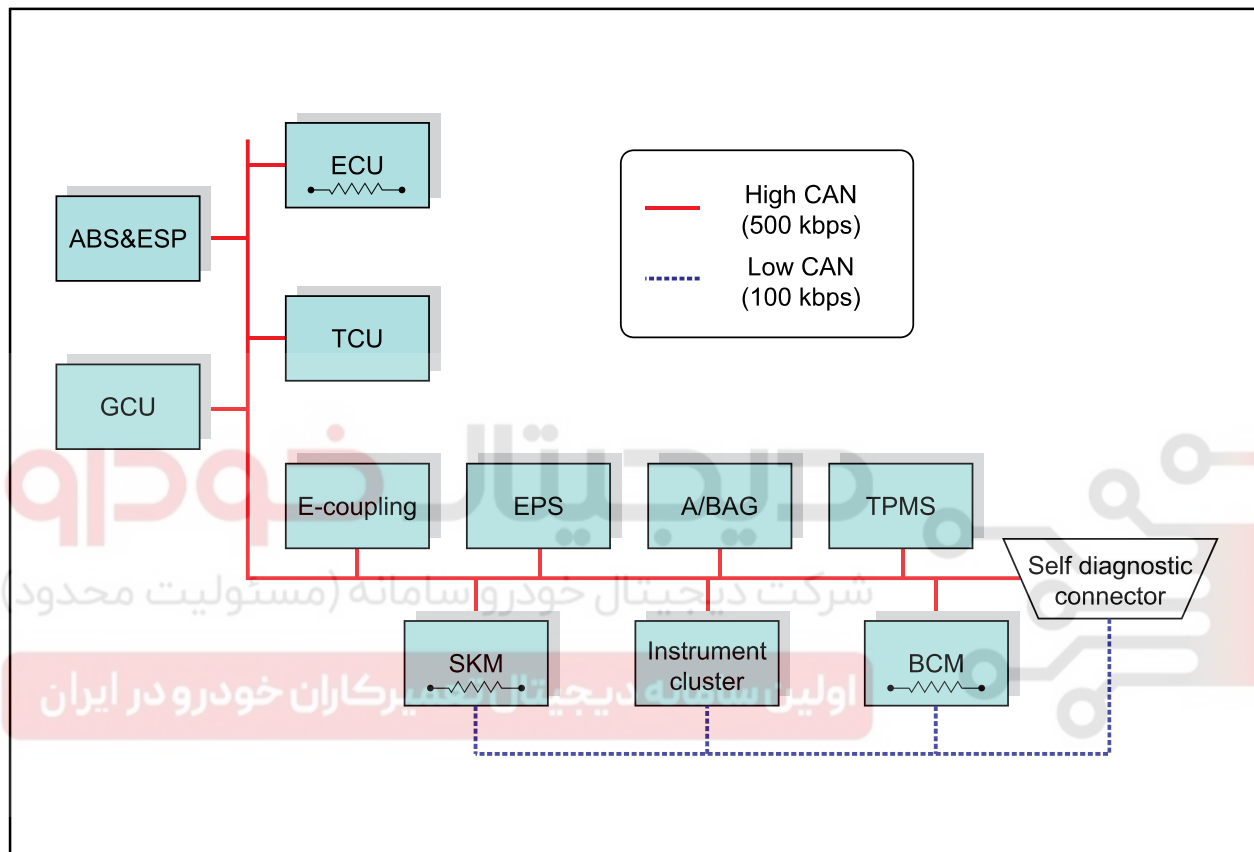
Connector Number (Pin Number/Color)	Connecting Wiring Harness	Connector Position	Remark
S101	6	W/H Floor(LH)	Under Eng Room Fuse & Relay Box
S102	6	W/H Floor(RH)	Inside RH Fender
S201	8	W/H Main	Backside Cluster(LH Cowl Cross Member)
S202	20	W/H Main	Backside Cluster(LH Cowl Cross Member)
S203	20	W/H Main	Backside Cluster(LH Cowl Cross Member)
S204	20	W/H Main	Backside Cluster(Upper ICM Relay Box)
S205	8	W/H Main	Backside Audio(CTR Cowl Cross Member)
S206	14	W/H Floor(LH)	Under Driver Seat
S301	14	W/H Floor(LH)	Under Driver Seat
S302	14	W/H Driver Seat	Inside Driver Seat(Seat Frame)
S303	14	W/H Driver Seat	Inside Driver Seat(Seat Frame)
S304	8	W/H Passenger Seat	Inside Passenger Seat(Seat Frame)
S401	8	W/H Floor(LH)	Beside PAS Unit(Inside LH QTR Trim)

Modification basis	
Application basis	
Affected VIN	

6. CAN COMMUNICATION CONFIGURATION

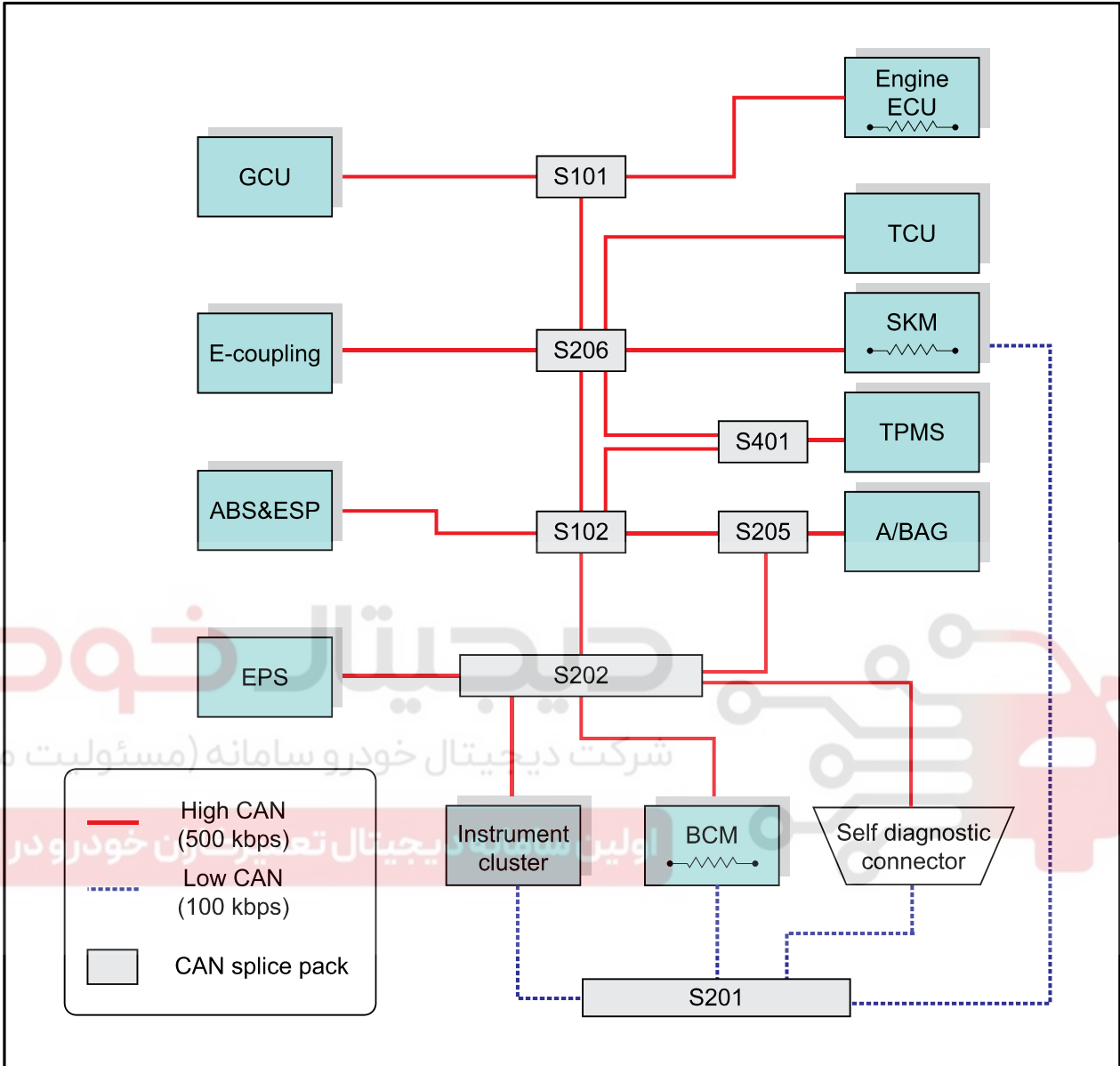
The CAN topology is linked with CAN communication system, which consists of P-CAN and B-CAN. The instrument cluster and BCM (Body Control Module) communicate through both P-CAN and B-CAN at the same time, and the SKM (SMART Key Module) communicates with the instrument cluster and BCM through B-CAN.

1) CAN Configurations (P-CAN/B-CAN)



Abbreviations	Meaning	Function
GCU	Glow Control Unit	Glow Control Unit
EPS	Electronic Power Steering Unit	Electronic Power Steering Unit
BCM	Body Control Module	Body Control Module
SKM	Smart Key Module	Smart Key Module
TPMS	Tire Pressure Monitoring System	Tire Pressure Monitoring System

2) CAN Communication Wiring Diagram



Splice pack	Wiring	Location
S101	W/H Floor (LH)	Glow Control Unit
S102	W/H Floor (RH)	Inside RH Fender
S202	W/H Main	Backside Cluster (LH Cowl Cross Member)
S204	W/H Main	Backside Cluster (Under ICM Relay Box)
S205	W/H Main	Backside Audio (CTR Cowl Cross Member)
S206	W/H Floor (LH)	Under Driver Seat
S401	W/H Floor (LH)	Beside PAS Unit (inside LH QTR Trim)

Modification basis	
Application basis	
Affected VIN	

Memo

دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

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