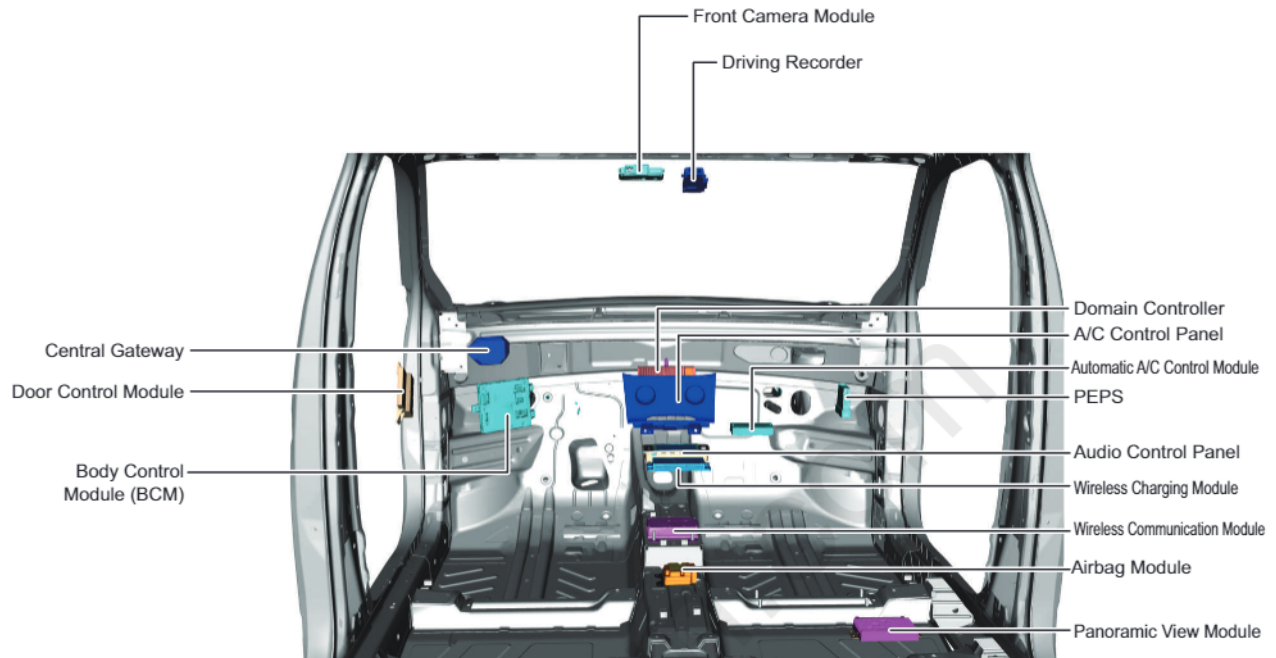


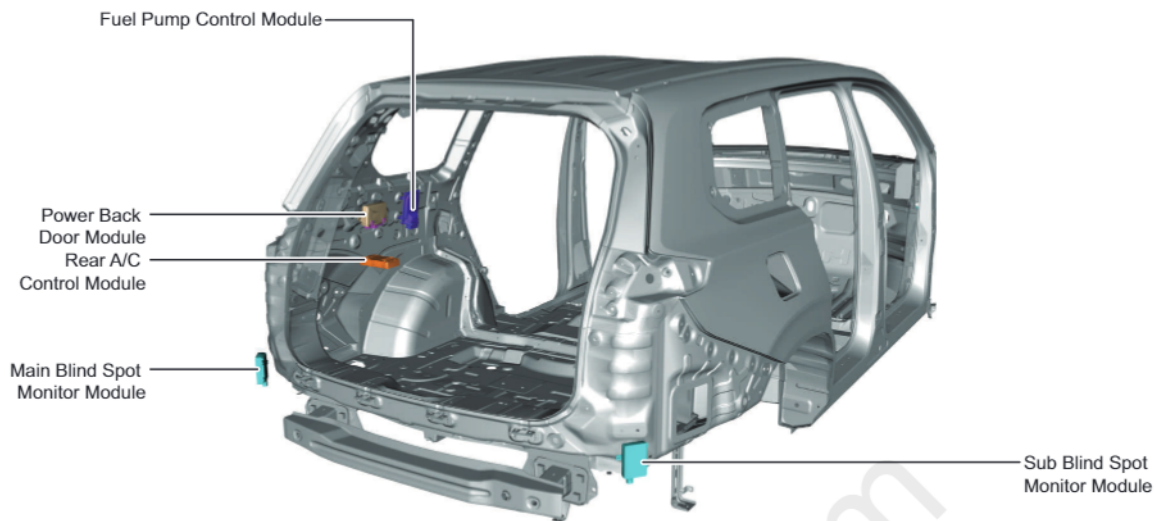
Control Module Distribution Diagram and Terminal Definition

This section introduces the information of each control module location of vehicle and terminal definition. The whole vehicle includes the following modules:



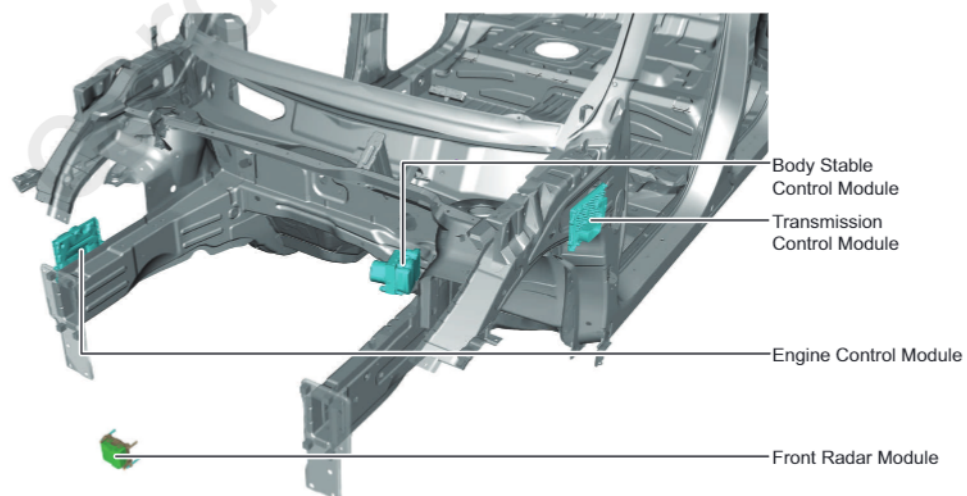
EWD130001

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EWD140001

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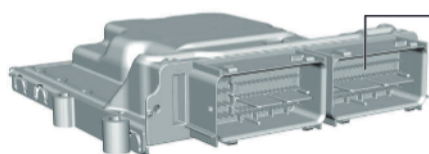


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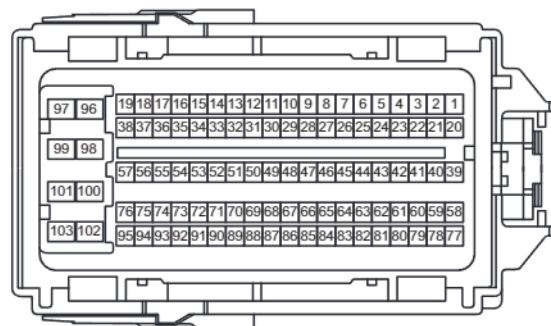


EWD160001

Engine Control Module (ECU-A) Terminal Definition



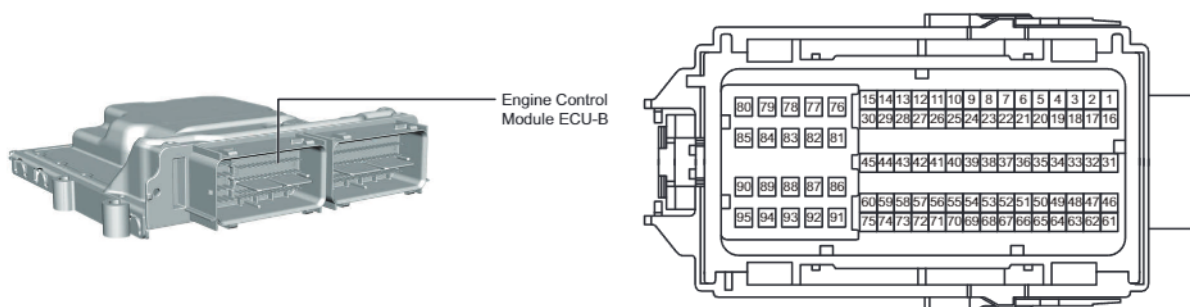
Engine Control Module ECU-A



Pin	Definition	Pin	Definition
A1	Starter Control LSD	A53	–
A2	–	A54	–
A3	–	A55	Brake Light Switch Signal
A4	–	A56	Brake Switch
A5	–	A57	Starter State Feedback Signal
A6	Main Relay	A58	Canister Cutoff Solenoid Valve
A7	Crankshaft Ventilation Heating Valve	A59	Variable Oil Pump
A8	Downstream Oxygen Sensor	A60	Electronic Thermostat
A9	Analog Sensor Ground 5	A61	Downstream Oxygen Sensor Heating
A10	Analog Sensor Ground 6	A62	Upstream Oxygen Sensor Heating
A11	Analog Sensor Ground 7	A63	Continuous Power Supply
A12	Analog Sensor Ground 8	A64	Refresh and Body CAN Low
A13	Accelerator Pedal Sensor 1 Ground	A65	Refresh and Body CAN High
A14	Analog Sensor Power Supply 1	A66	Upstream Oxygen IA
A15	Accelerator Pedal Position Sensor 1 Power Supply	A67	Upstream Oxygen VN
A16	Accelerator Pedal Position Sensor 2 Power Supply	A68	–
A17	–	A69	–
A18	Sensor Power Supply (5V)	A70	–
A19	–	A71	–
A20	–	A72	–
A21	Electronic Vacuum Pump	A73	–
A22	–	A74	–
A23	–	A75	–
A24	A/C Compressor Relay	A76	–

Pin	Definition	Pin	Definition
A25	Pressure Discharge Control Valve	A77	–
A26	Fuel Control Enable Signal	A78	–
A27	Brake Vacuum Sensor	A79	–
A28	Oxygen Sensor Ground	A80	–
A29	Accelerator Pedal Sensor 2 Ground	A81	–
A30	–	A82	–
A31	Accelerator Pedal Position Sensor 1	A83	–
A32	–	A84	–
A33	–	A85	–
A34	A/C Pressure Sensor	A86	–
A35	–	A87	–
A36	Fuel Level Sensor	A88	–
A37	–	A89	–
A38	–	A90	–
A39	PWM Cooling Fan	A91	–
A40	Variable Valve Timing Valve (Exhaust)	A92	–
A41	Variable Valve Timing Valve (Intake)	A93	–
A42	Canister Control Valve	A94	–
A43	–	A95	–
A44	–	A96	ECM Ground 4
A45	–	A97	ECM Ground 3
A46	Ignition Switch	A98	ECM Ground 2
A47	LIN Bus	A99	ECM Ground 1
A48	Upstream Oxygen IP	A100	Main Relay Power Supply 1
A49	Upstream Oxygen VM	A101	Main Relay Power Supply 2
A50	–	A102	Main Relay Power Supply 3
A51	Accelerator Pedal Position Sensor 2	A103	Main Relay Power Supply 4
A52	GPF Front Temperature Sensor		

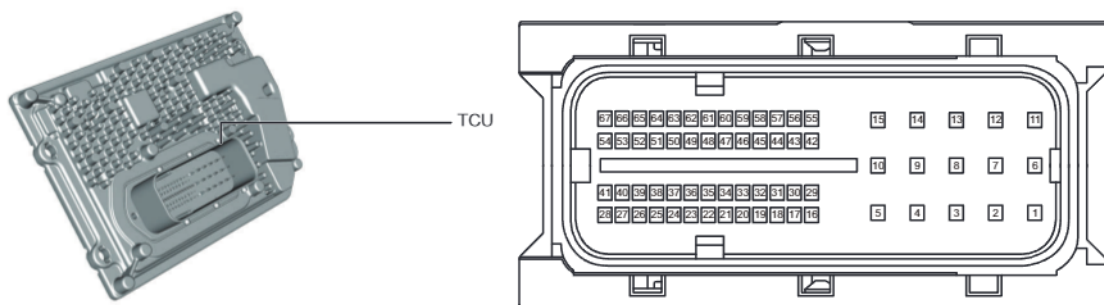
Engine Control Module (ECU-B) Terminal Definition



Pin	Definition	Pin	Definition
B1	Sensor Power Supply (5V)	B49	–
B2	Sensor Power Supply (5V)	B50	–
B3	Sensor Power Supply (5V)	B51	–
B4	–	B52	–
B5	Digital Sensor Ground 2	B53	–
B6	Analog Sensor Ground 1	B54	Electronic Waste Gate Position Signal
B7	Analog Sensor Ground 2	B55	–
B8	Analog Sensor Ground 3	B56	–
B9	Analog Sensor Ground 4	B57	Engine Speed Sensor Signal
B10	Exhaust Phase Sensor Ground	B58	–
B11	Intake Phase Sensor Ground	B59	–
B12	2nd Cylinder Ignition	B60	–
B13	4th Cylinder Ignition	B61	–
B14	1st Cylinder Ignition	B62	–
B15	3rd Cylinder Ignition	B63	–
B16	Sensor Power Supply (5V)	B64	–
B17	Exhaust Phaser Sensor Power Supply	B65	–
B18	Speed Sensor Power Supply	B66	–
B19	–	B67	–
B20	Speed Sensor Ground	B68	–
B21	–	B69	–
B22	Engine Coolant Temperature Sensor Signal 1	B70	–
B23	–	B71	–
B24	–	B72	–
B25	Low Pressure Fuel Rail Pressure Sensor	B73	–

Pin	Definition	Pin	Definition
B26	Canister Desorption Pressure Sensor	B74	–
B27	Boost Pressure Sensor Signal	B75	–
B28	Intake Pressure Sensor Signal	B76	4th Cylinder Injector+
B29	Boost Temperature Sensor Signal	B77	4th Cylinder Injector –
B30	Intake Phase Sensor Signal	B78	1st Cylinder Injector –
B31	Fuel Tank Pressure Sensor	B79	3rd Cylinder Injector +
B32	–	B80	2nd Cylinder Injector +
B33	–	B81	Electronic Waste Gate Control –
B34	Electronic Throttle Feedback Signal 2	B82	Electronic Waste Gate Control +
B35	Engine Coolant Temperature Sensor Signal 2	B83	1st Cylinder Injector +
B36	High Pressure Fuel Rail Pressure Sensor Signal	B84	3rd Cylinder Injector –
B37	–	B85	2nd Cylinder Injector –
B38	Manifold Temperature Sensor Signal	B86	Electronic Throttle Control –
B39	–	B87	–
B40	Electronic Throttle Feedback Signal 1	B88	–
B41	Dual-mode GPF Differential Pressure Sensor (SENT2)	B89	–
B42	Dual-mode GPF Differential Pressure Sensor (SENT1)	B90	Fuel Pressure Control Valve –
B43	–	B91	Electronic Throttle Control +
B44	–	B92	–
B45	Exhaust Phaser Sensor Signal	B93	–
B46	Knock Sensor (+)	B94	–
B47	Knock Sensor (–)	B95	Fuel Pressure Control Valve +
B48	–		

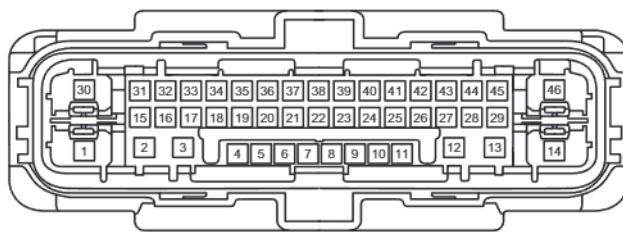
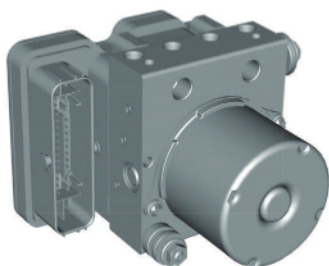
Transmission Control Unit (TCU) Terminal Definition



Pin	Definition	Pin	Definition
1	Electronic Pump U Phase	35	Electronic Parking Lock Electromagnet Control
2	Electronic Pump V Phase	36	Electronic Parking Actuator Solenoid Valve Control
3	Electronic Pump W Phase	37	–
4	Odd Clutch Solenoid Valve Control	38	Clutch Temperature Sensor
5	TCU Ground KL31	39	Transmission Oil Temperature Sensor
6	Solenoid Valve Power Supply 3	40	–
7	TCU Ground KL31	41	Parking Position Sensor
8	1/5th Shift Solenoid Valve Control	42	5V Sensor Power Supply 1
9	3/7th Shift Solenoid Valve Control	43	8V Sensor Power Supply 1
10	Odd Gear Solenoid Valve Control	44	Main Oil Pressure Solenoid Valve Control
11	Solenoid Valve Power Supply 1	45	Clutch Cooling Solenoid Valve Control
12	Solenoid Valve Power Supply 2	46	4/R Shift Solenoid Valve Control
13	TCU Power Supply KL.30 HP	47	2/6th Shift Solenoid Valve Control
14	TCU Power Supply KL.30 HP	48	Even Gear Solenoid Valve Control
15	TCU Power Supply KL.30 LP	49	Simulation Input Ground 1
16	Electronic Pump Motor Position Sensor V Phase	50	–
17	–	51	Even Clutch Pressure Sensor
18	–	52	Odd Clutch Pressure Sensor
19	CAN1a High	53	8 V Sensor Power Supply 2
20	CAN1a Low	54	5 V Sensor Power Supply 2
21	–	55	Sub Memory: Chip Selection

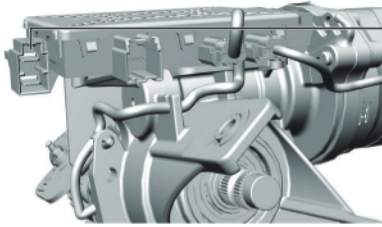
Pin	Definition	Pin	Definition
22	PN Hard Wire	56	Sub Memory: Clock
23	–	57	2nd/6th Gear Fork Position Sensor
24	Simulation Input Ground 2	58	4th/R Gear Fork Position Sensor
25	CAN3 High (CAN Calibration)	59	Output Speed Sensor
26	CAN3 Low (CAN Calibration)	60	Clutch Speed Sensor
27	–	61	Simulation Input Ground 2
28	–	62	Odd Shaft Input Speed Sensor
29	Electronic Pump Motor Position Sensor W Phase	63	Even Shaft Input Speed Sensor
30	Electronic Pump Motor Position Sensor U Phase	64	1st/5th Gear Fork Position Sensor
31	ACC Wake Up	65	3rd/7th Gear Fork Position Sensor
32	Ignition KL15	66	–
33	Even Clutch Solenoid Valve Control	67	Sub Memory: R/W
34	Digital Input Ground 1		

Body Stability Control Module (ESP) Terminal Definition

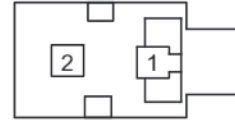


Pin	Definition	Pin	Definition
1	Motor Power Supply End (Positive)	24	Front Left Wheel Speed Sensor Power Supply
2	Right Caliper Motor Power Supply Wire	25	CAN2 L
3	Right Caliper Motor Ground Wire	26	Front Right Wheel Speed Sensor Signal Wire
4	–	27	–
5	CAN H	28	–
6	–	29	–
7	Front Left Wheel Speed Sensor Signal Wire	30	Power Supply
8	AUTO HOLD Switch Indicator	31	EPB Switch Pin 1
9	–	32	EPB Switch Pin 4
10	HDC Switch Indicator	33	–
11	CAN2 H	34	–
12	Left Caliper Motor Ground Wire	35	–
13	Left Caliper Motor Power Supply Wire	36	Ignition Signal
14	Motor Ground	37	Rear Right Wheel Speed Sensor Signal Wire
15	EPB Switch Pin 3	38	Brake Switch
16	EPB Switch Pin 6	39	Rear Left Wheel Speed Sensor Power Supply Wire
17	HDC Function Switch	40	–
18	EPB Switch Indicator	41	AUTO HOLD Switch
19	CAN L	42	–
20	–	43	ESP_OFF Switch
21	Front Right Wheel Speed Sensor Power Supply	44	–
22	Rear Right Wheel Speed Sensor Power Supply	45	–
23	Rear Left Wheel Speed Sensor Signal Wire	46	ECU Ground

Electric Power Steering Module (EPS)-P Terminal Definition

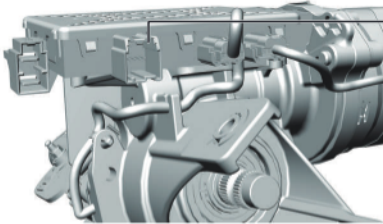


EPS-P

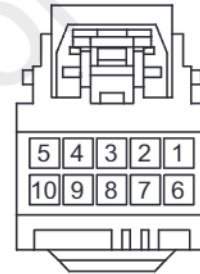


Pin	Definition	Pin	Definition
P-1	Power supply	P-2	Ground

Electric Power Steering Module (EPS)-S Terminal Definition

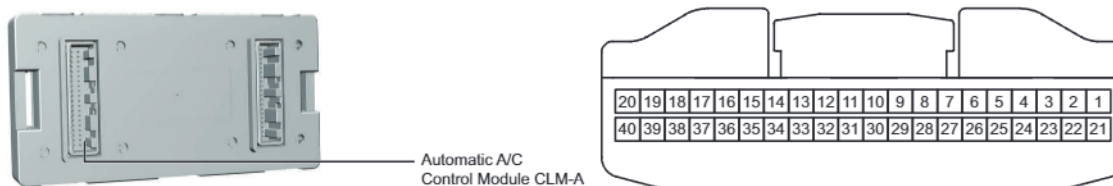


EPS-S



Pin	Definition	Pin	Definition
S-1	Ignition Signal	S-6	–
S-2	–	S-7	–
S-3	CAN-H	S-8	–
S-4	CAN-L	S-9	–
S-5	–	S-10	–

Automatic A/C Control Module (CLM-A) Terminal Definition



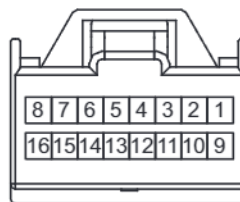
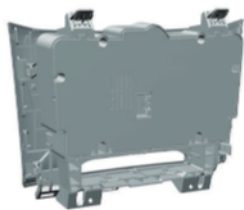
Pin	Definition	Pin	Definition
1	CAN_L	21	CAN_H
2	Circulation Damper Motor Drive +	22	–
3	Mode Damper Motor Drive –	23	–
4	Right Temperature Damper Motor Drive +	24	Evaporator Temperature Sensor
5	Mode Damper Motor Drive +	25	Ambient Temperature Sensor
6	Left Temperature Damper Motor Drive –	26	–
7	Left Temperature Damper Motor Drive +	27	PM2.5 Sensor Signal
8	Right Temperature Damper Motor Drive –	28	–
9	Circulation Damper Motor Drive –	29	–
10	–	30	–
11	IGN	31	–
12	Damper Motor Position Sensor Total Power Supply	32	Blower Positive Terminal Voltage Feedback
13	Circulation Damper Motor Position Information Feedback	33	–
14	Mode Damper Motor Position Information Feedback	34	Blower Speed Control Signal
15	Left Temperature Damper Motor Position Information Feedback	35	Blower Negative Terminal Voltage Feedback
16	Right Temperature Damper Motor Position Information Feedback	36	Damper Motor Position Sensor Ground
17	Ground	37	Temperature Sensor Ground
18	Ground	38	PM2.5 AQS Sensor Power Supply
19	Power Supply	39	Compressor Solenoid Valve Drive +
20	Power Supply	40	Compressor Solenoid Valve Drive –

Automatic A/C Control Module (CLM-B) Terminal Definition



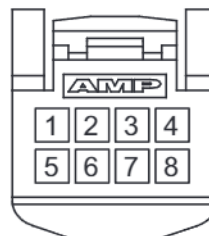
Pin	Definition	Pin	Definition
1	PM2.5 Sensor Switch (Enable)	21	–
2	AQS Sensor Signal	22	–
3	–	23	Right Anion Generator Diagnostic Signal
4	–	24	Left Face Temperature Sensor Signal
5	–	25	Right Face Temperature Sensor Signal
6	–	26	Left Foot Temperature Sensor Signal
7	–	27	Right Foot Temperature Sensor Signal
8	–	28	–
9	–	29	Micro Light Sensor Signal
10	–	30	Left Solar Sensor Signal
11	–	31	Right Solar Sensor Signal
12	–	32	Left Anion Generator Diagnostic Signal
13	–	33	–
14	–	34	Blower Relay Control Signal
15	–	35	–
16	–	36	–
17	–	37	–
18	–	38	–
19	–	39	–
20	Anion Generator Enable	40	–

Front A/C Control Panel Terminal Definition



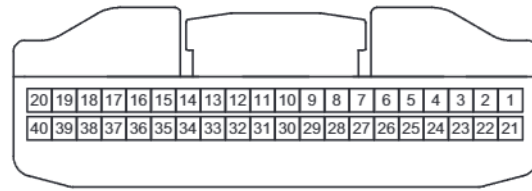
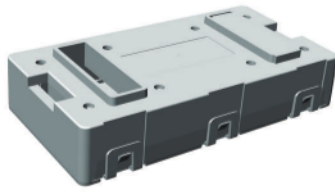
Pin	Definition	Pin	Definition
1	–	9	–
2	–	10	–
3	–	11	–
4	CAN-H	12	–
5	CAN-L	13	–
6	–	14	–
7	GND	15	–
8	–	16	KL30

Rear A/C Control Panel Terminal Definition



Pin	Definition	Pin	Definition
1	–	5	GND
2	KL30	6	–
3	–	7	CAN-L
4	–	8	CAN-H

Rear A/C Control Module Terminal Definition



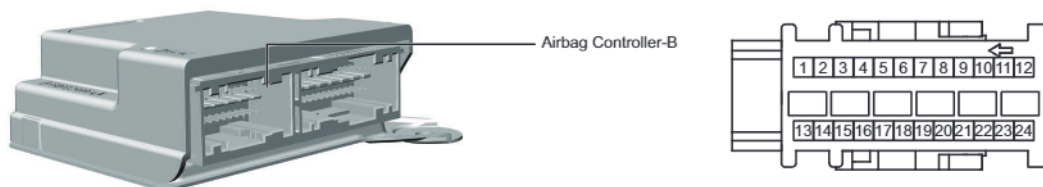
Pin	Definition	Pin	Definition
1	–	21	Ground
2	–	22	Sensor Ground
3	–	23	–
4	Temperature Damper Motor Drive 1	24	–
5	Temperature Damper Motor Drive 2	25	–
6	Temperature Damper Motor Drive 3	26	–
7	Temperature Damper Motor Drive 4	27	Evaporator Temperature Sensor
8	–	28	Face Temperature Sensor Signal
9	–	29	Foot Temperature Sensor Signal
10	CAN High	30	–
11	CAN Low	31	Blower Positive Terminal Voltage Feedback
12	IGN (Ignition Power Supply)	32	–
13	Mode Damper Motor Drive 1	33	Blower Positive Terminal Voltage Feedback
14	Mode Damper Motor Drive 2	34	Blower Speed Control Signal
15	Mode Damper Motor Drive 3	35	–
16	Mode Damper Motor Drive 4	36	–
17	–	37	Power Supply
18	–	38	Power Supply
19	–	39	–
20	–	40	Blower Relay Low Side Control

Airbag Control Module A Terminal Definition



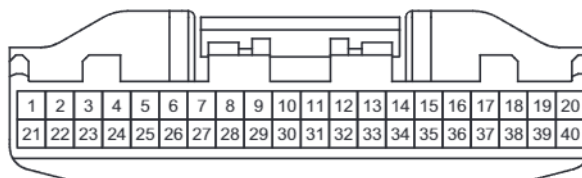
Pin	Definition	Pin	Definition
A1	Front Right Seat Side Airbag (+)	A17	–
A2	Front Right Seat Side Airbag (–)	A18	–
A3	Driver Airbag (–)	A19	–
A4	Driver Airbag (+)	A20	–
A5	Front Passenger Airbag (+)	A21	–
A6	Front Passenger Airbag (–)	A22	Second Row Right Seat Belt Buckle Switch
A7	Front Left Seat Side Airbag (–)	A23	Second Row Middle Seat Belt Buckle Switch
A8	Front Left Seat Side Airbag (+)	A24	Second Row Left Seat Belt Buckle Switch
A9	Left Curtain Shield Airbag Assembly (+)	A25	Front Passenger Weight Detection Sensor
A10	Left Curtain Shield Airbag Assembly (–)	A26	Front Passenger Seat Belt Buckle Switch
A11	Right Curtain Shield Airbag (–)	A27	–
A12	Right Curtain Shield Airbag (+)	A28	–
A13	Right Side Collision Sensor (+)	A29	Front Left Collision Sensor (+)
A14	Right Side Collision Sensor (–)	A30	Front Left Collision Sensor (–)
A15	Left Side Collision Sensor (–)	A31	Front Right Collision Sensor (–)
A16	Left Side Collision Sensor (+)	A32	Front Right Collision Sensor (+)

Airbag Control Module B Terminal Definition



Pin	Definition	Pin	Definition
B1	IGN power supply	B13	Front Right Seat Belt with Pretensioner (Retractor) (+)
B2	GND	B14	Front Right Seat Belt with Pretensioner (Retractor) (-)
B3	GND (DCS GND)	B15	Front Left Seat Belt with Pretensioner (End Plate) (-)
B4	Collision Output (ENS)	B16	Front Left Seat Belt with Pretensioner (End Plate) (+)
B5	-	B17	Front Right Seat Belt with Pretensioner (End Plate) (+)
B6	Driver Seat Belt Buckle Switch	B18	Front Right Seat Belt with Pretensioner (End Plate) (-)
B7	Front Right Door Pressure Sensor (-)	B19	Front Left Seat Belt with Pretensioner (Retractor) (-)
B8	Front Right Door Pressure Sensor (+)	B20	Front Left Seat Belt with Pretensioner (Retractor) (+)
B9	Front Left Door Pressure Sensor (+)	B21	Second Row Right Seat Belt Pretension (+)
B10	Front Left Door Pressure Sensor (-)	B22	Second Row Right Seat Belt Pretension (-)
B11	CAN_L	B23	Second Row Left Seat Belt with Pretensioner (-)
B12	CAN_H	B24	Second Row Left Seat Belt with Pretensioner (+)

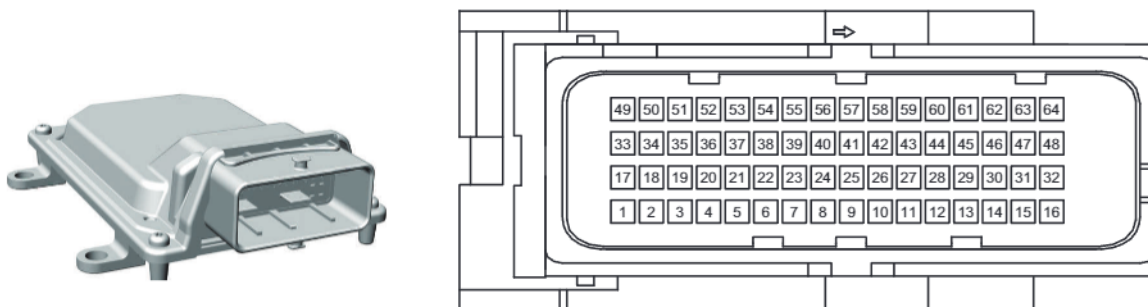
Passive Entry and Passive Start (PEPS) Terminal Definition



Pin	Definition	Pin	Definition
J1-01	LIN Bus, Reserved	J1-21	LIN Bus, Reserved
J1-02	ACC Relay Feedback, High Effective Input	J1-22	–
J1-03	CAN Bus (CAN H)	J1-23	ENGINE START STOP Switch Orange Indicator Output, High Effective
J1-04	CAN Bus (CAN L)	J1-24	ENGINE START STOP Switch Green Indicator Output, High Effective
J1-05	–	J1-25	ENGINE START STOP Switch Backlight Power Supply Output, High Effective
J1-06	Luggage Compartment Start Button Input	J1-26	Brakes Pedal Input (At), High Effective
J1-07	ENGINE START STOP Switch 2 Button Input, Low Effective Input	J1-27	Wireless Charging Disable Signal, Highly Effective (Reserved)
J1-08	ENGINE START STOP Switch 1 Button Input, Low Effective Input	J1-28	SSB GND, Reserved
J1-09	–	J1-29	–
J1-10	Driver Side Door Handle Antenna +	J1-30	Driver Side Door Handle Antenna –
J1-11	Interior Front Antenna –/Immo Antenna – (Reusing Antenna)	J1-31	Interior Front Antenna +/IMMO Antenna + (Reusing Antenna)
J1-12	Front Passenger Side Door Handle Antenna +	J1-32	Front Passenger Side Door Handle Antenna –
J1-13	Interior Rear Antenna +	J1-33	Interior Rear Antenna –
J1-14	Rear Bumper Antenna +	J1-34	Rear Bumper Antenna –
J1-15	Driver Side Door Handle Button or Capacitive Type Door Handle Power Supply Terminal	J1-35	Front Passenger Side Door Handle Button or Capacitive Type Door Handle Ground Terminal

Pin	Definition	Pin	Definition
J1-16	Front Passenger Side Door Handle Button or Capacitive Type Door Handle Power Supply Terminal	J1-36	Driver Side Door Handle Button or Capacitive Type Door Handle Ground Terminal
J1-17	IG1 Relay Feedback, High Effective Input	J1-37	GND
J1-18	IG1 Relay Drive, High Effective Output	J1-38	IG2 Relay Feedback, High Effective Input
J1-19	IG2 Relay Drive, High Effective Output	J1-39	START Relay Drive, High Effective Output
J1-20	Power Supply, 5 A Fuse	J1-40	ACC Relay Drive, High Effective Output

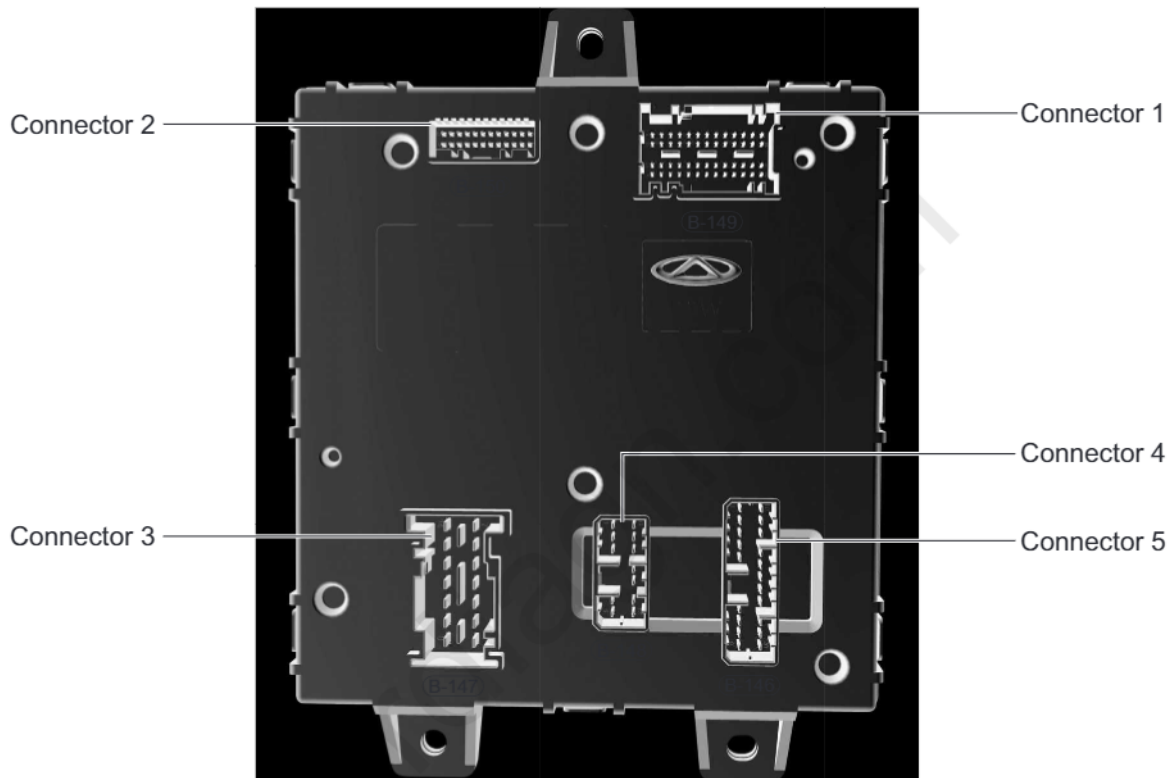
Fuel Pump Controller Terminal Definition



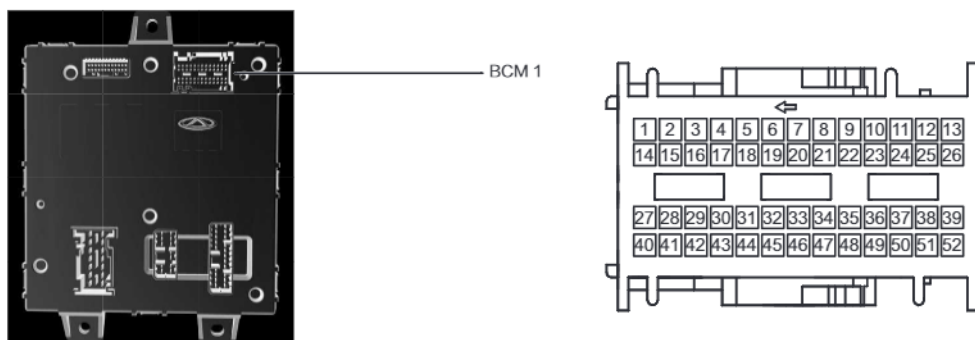
Pin	Definition	Pin	Definition
1	CAN-H	33	–
2	–	34	–
3	–	35	–
4	–	36	–
5	–	37	–
6	–	38	–
7	–	39	–
8	–	40	–
9	–	41	–
10	–	42	–
11	–	43	–
12	–	44	–
13	–	45	–
14	–	46	–
15	Fuel Pump Control Enable	47	KL30
16	–	48	Oil Pump Motor Positive
17	CAN-L	49	–
18	–	50	–
19	–	51	–
20	–	52	–
21	–	53	–
22	–	54	–
23	–	55	–
24	–	56	–
25	–	57	–
26	–	58	–
27	–	59	–
28	–	60	–

Pin	Definition	Pin	Definition
29	–	61	–
30	–	62	–
31	KL15	63	Ground
32	–	64	Oil Pump Motor Negative

Body Control Module (BCM)



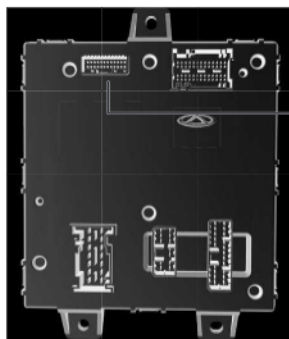
Body Control Module (BCM 1) Pin Definition



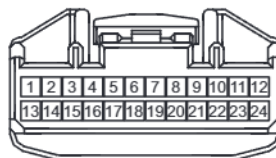
Pin	Definition	Pin	Definition
1	–	27	Interior Light Output
2	–	28	Luggage Compartment Unlock Motor
3	–	29	Rear Defroster Output
4	Window Lock Indicator Light	30	High Speed Wiper Output
5	Front Left Steering Diagnosis	31	Position Light and License Light Output
6	Front Right Turn Diagnosis	32	–
7	Hard Wire Crash	33	Driver Side Front Right Window Regulator Switch
8	–	34	Driver Side Front Left Window Regulator Switch
9	–	35	Back Door Unlock Signal Input
10	Rear Left Door Open Signal	36	Passenger Side Window Regulator Disabled Switch
11	–	37	Front Right Door Open Signal
12	Rear Right Door Open Signal	38	–
13	Front Left Door Unlock Status Signal	39	Brake Switch Signal
14	–	40	Anti-theft Indicator
15	–	41	Rear View Mirror Defroster Output
16	LIN Signal (TDL + RSM)	42	Low Speed Wiper Output
17	Front Fog Light Output	43	Low Beam Light Output
18	High Beam Light Output	44	Horn Output
19	Driver Side Rear Right Window Regulator Switch	45	AGND
20	Passenger Side Front Right Window Regulator Switch	46	–
21	Passenger Side Rear Left Window Regulator Switch	47	Driver Side Rear Left Window Regulator Switch

Pin	Definition	Pin	Definition
22	Passenger Side Rear Right Window Regulator Switch	48	Back Door Open Signal
23	Front Left Door Open Signal	49	Central Control Lock Switch Input
24	Front Wiper Stop Signal	50	Central Control Unlock Switch Input
25	Position Light Feedback	51	–
26	Rear Wiper Stop Position Signal	52	Engine Hood Contact Switch

Body Control Module (BCM 2) Terminal Definition

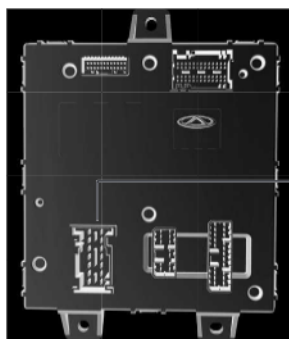


BCM 2



Pin	Definition	Pin	Definition
1	ESS Indicator Output	13	Water Flow Turn Signal Light Mode Signal Output
2	HS-CAN_L	14	Hazard Warning Light Operation Indicator Input
3	–	15	HS-CAN_H
4	–	16	–
5	–	17	IGN-ON Signal Input
6	–	18	–
7	ESS Switch Input	19	–
8	–	20	–
9	LDW Switch Input	21	–
10	Rear View Mirror Folding/ Unfolding Switch Input	22	–
11	Hazard Warning Light Input	23	–
12	–	24	Backlight Brightness Adjustment Switch Input

Body Control Module (BCM 3) Terminal Definition

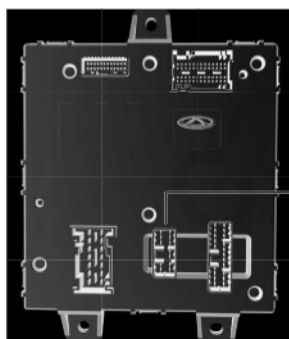


BCM 3

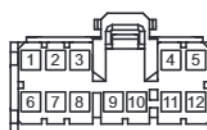


Pin	Definition	Pin	Definition
1	Power Supply 3 (Driver Unlock, Rear Wiper and Front/Rear Washer)	8	Rear Left Window Up Output
2	Power Supply 6 (Door Lock)	9	Rear Left Window Down Output
3	Ground 1	10	Power Supply 1 (Front Right Window and Rear Left Window)
4	Ground 2	11	Front Right Window Up Output
5	Rear Right Window Down Output	12	Front Right Window Down Output
6	Rear Right Window Up Output	13	Front Left Window Up Output
7	Power Supply 2 (Front Left Window and Rear Right Window)	14	Front Left Window Down Output

Body Control Module (BCM 4) Terminal Definition



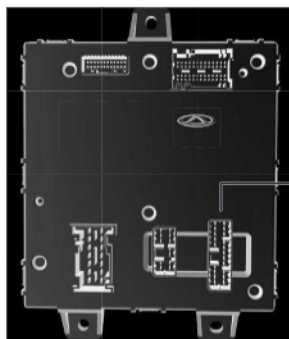
BCM 4



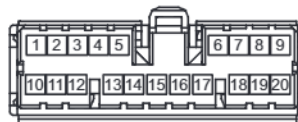
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Pin	Definition	Pin	Definition
1	–	7	Backlight Adjustment Output
2	Central Control Unlock Output	8	Back-up Light Output
3	Central Control Lock Output	9	Power Supply 5 (Lighting and Rear View Mirror)
4	Driver Unlock Output	10	Rear Wiper Output
5	Front Washer Output	11	–
6	–	12	Rear Washer Output

Body Control Module (BCM 5) Terminal Definition

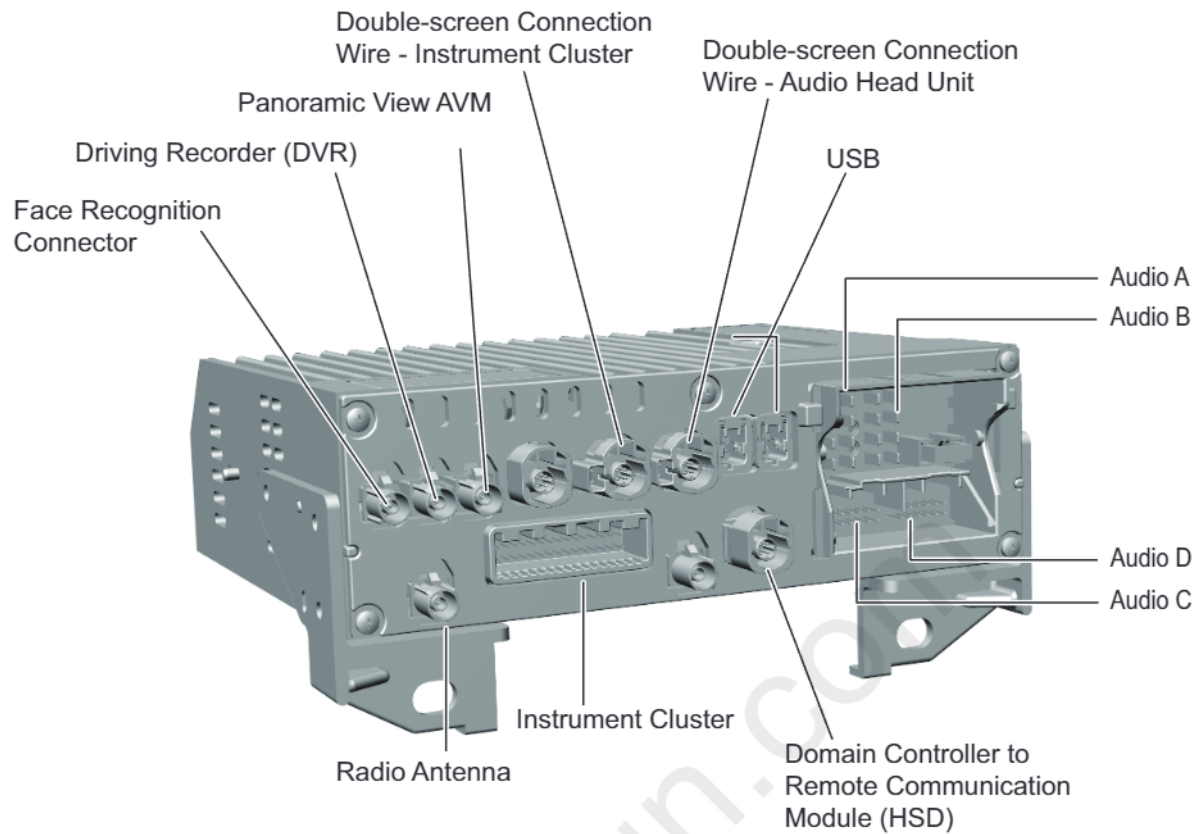


BCM 5

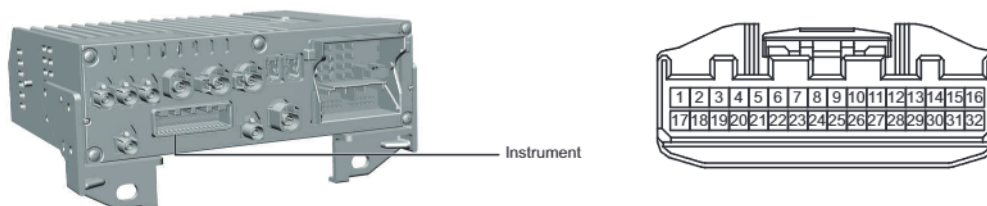


Pin	Pin	Pin	Definition
1	–	11	High Mounted Stop Light Output
2	Rear View Mirror Unfolding Output	12	Red Ambient Light Output
3	Rear View Mirror Folding Output	13	Blue Ambient Light Output
4	Left Turn Signal Light Output	14	Left Daytime Running Light Output
5	Right Turn Signal Light Output	15	Right Daytime Running Light Output
6	–	16	Battery Save Output
7	–	17	Rear Fog Light Output
8	Stop Light Output	18	Left Steering Auxiliary Lighting
9	Foot Light Output	19	Right Steering Auxiliary Lighting
10	Luggage Compartment Light Output	20	Power Supply 4 (Lighting Power Supply)

Domain Controller

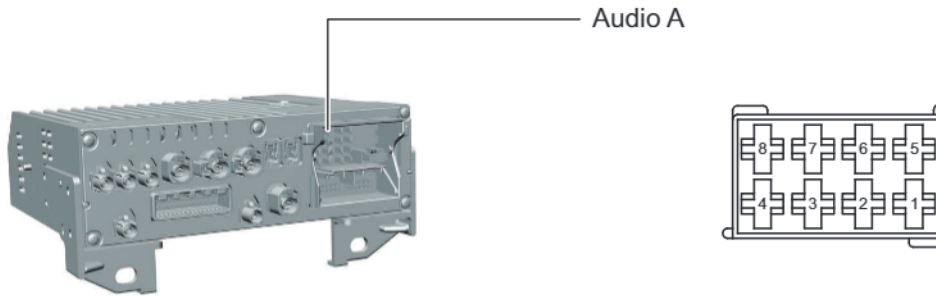


Domain Controller (Instrument Cluster) Terminal Definition



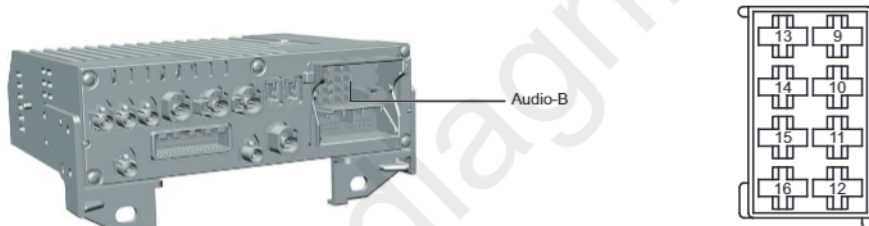
Pin	Definition	Pin	Definition
1	–	17	–
2	–	18	–
3	–	19	–
4	Driving Mode Signal	20	–
5	–	21	–
6	–	22	–
7	–	23	–
8	–	24	–
9	Oil Pressure Signal	25	–
10	–	26	Brake Fluid Level Signal
11	–	27	–
12	–	28	–
13	–	29	CAN-L
14	–	30	CAN-H
15	–	31	
16	–	32	

Domain Controller (Audio Unit A) Terminal Definition



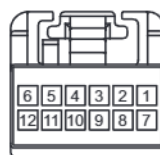
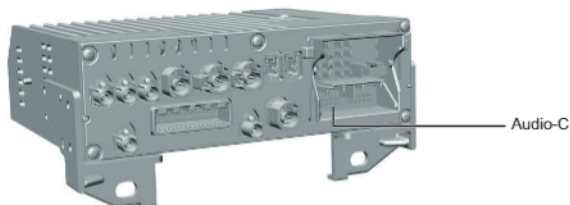
Pin	Definition	Pin	Definition
1	Rear Right Speaker +	5	Rear Right Speaker –
2	Front Right Speaker +	6	Front Right Speaker –
3	Front Left Speaker +	7	Front Left Speaker –
4	Rear Left Speaker +	8	Rear Left Speaker –

Domain Controller ((Audio Unit B) Terminal Definition



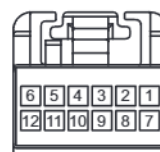
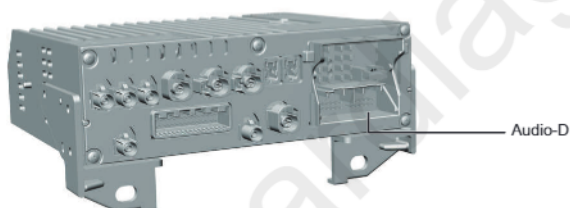
Pin	Definition	Pin	Definition
9	–	13	ACC
10	–	14	–
11	–	15	Power supply
12	Ground	16	–

Domain Controller ((Audio Unit C) Terminal Definition



Pin	Definition	Pin	Definition
1	Entertainment Information CAN H	7	Entertainment Information CAN L
2	Ignition Signal	8	Left MIC Ground
3	Left MIC– Signal	9	Left MIC+ Signal
4	Right MIC+ Signal	10	Right MIC– Signal
5	RVC Ground	11	RVC Power Supply
6	RVC CVBS–	12	RVC CVBS+

Domain Controller (Audio Unit D) Terminal Definition



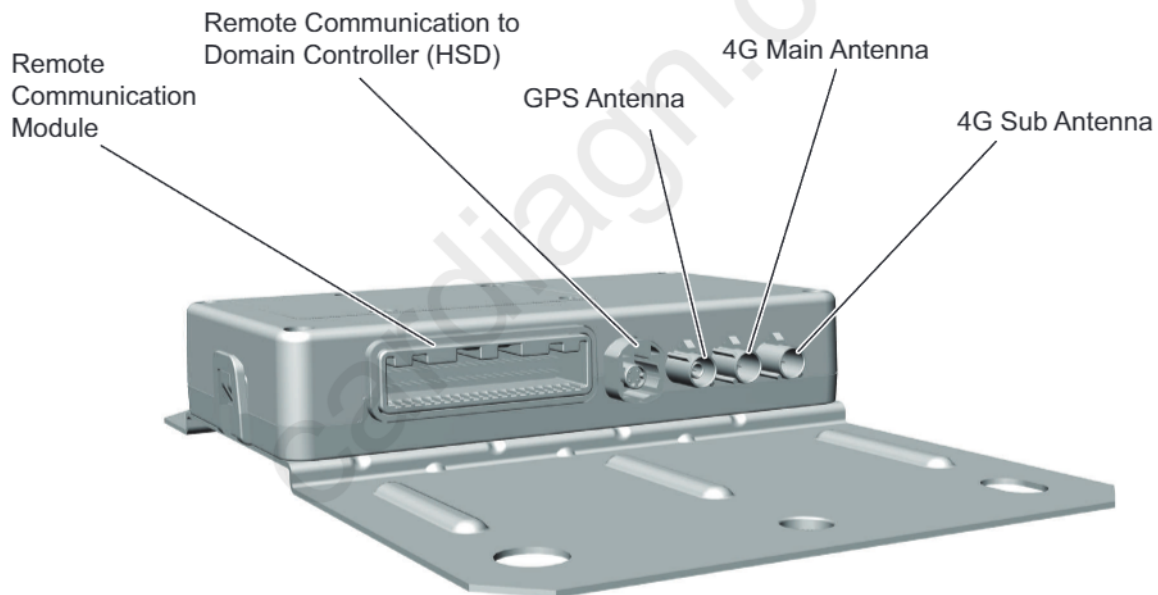
Pin	Definition	Pin	Definition
1	T–BOX Audio Right Channel	7	T–BOX Audio Left Channel
2	T–BOX Audio Common Terminal Ground	8	–
3	T–BOX Mute Line Input	9	–
4	Right MIC Ground	10	–
5	–	11	–
6	–	12	–

Touch Gesture Control Panel Terminal Definition



Pin	Definition	Pin	Definition
1	CAN-H	4	CAN-L
2	Power Supply	5	-
3	Ground	6	IGN1

Remote Communication Module

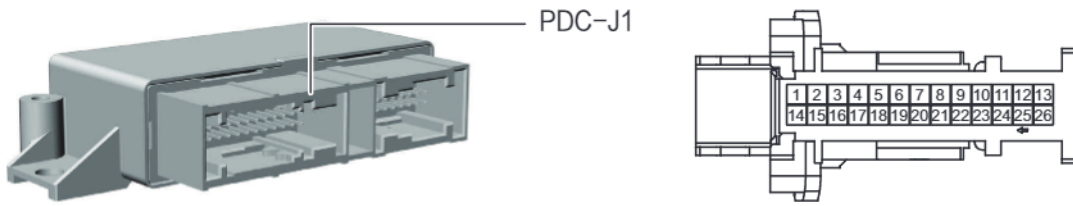


Remote Communication Gateway Module –1 Terminal Definition



Pin	Definition	Pin	Definition
1	Power Supply	21	–
2	SOS Power Supply	22	–
3	Ground	23	–
4	LED Light Controlling SOS ON/OFF	24	–
5	MIC Shield Ground	25	MIC Output Signal
6	MIC Power Supply Input	26	MIC Ground
7	Audio Signal Shield Ground	27	–
8	Audio Signal +	28	Audio Signal –
9	–	29	–
10	ECALL Switch Ground	30	ECALL Button Signal
11	Airbag Collision Signal	31	–
12	–	32	Mute
13	–	33	LED_Red Indicator
14	–	34	LED_Green Indicator
15	–	35	–
16	–	36	–
17	–	37	–
18	–	38	–
19	CAN-H	39	CAN-L
20	Power Supply	40	Ground

Radar Control Module –1 Terminal Definition



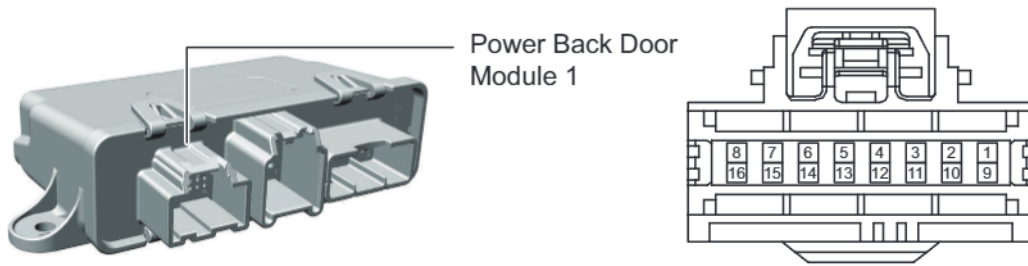
Pin	Definition	Pin	Definition
1	–	14	Power Supply
2	–	15	–
3	–	16	PDC Warning Sound OFF Button
4	–	17	PDC Warning Sound OFF Button Indicator
5	–	18	Rear Radar Sensor Power Supply
6	Rear Left Outside Radar Sensor Signal	19	–
7	Rear Right Inside Radar Sensor Signal	20	Rear Left Inside Radar Sensor Signal
8	–	21	Rear Right Outside Radar Sensor Signal
9	–	22	Rear Radar Sensor Ground
10	–	23	CAN–L
11	–	24	CAN–H
12	–	25	–
13	Ground	26	–

Radar Control Module –2 Terminal Definition



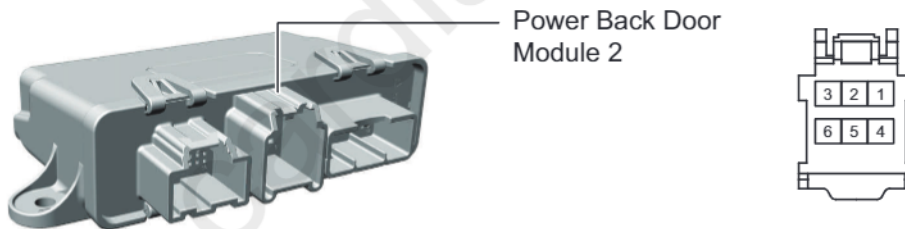
Pin	Definition	Pin	Definition
1	–	10	Front Radar Sensor Ground
2	–	11	Front Left Outside Radar Sensor Signal
3	Front Left Inside Radar Sensor Signal	12	Front Right Inside Radar Sensor Signal
4	Front Right Outside Radar Sensor Signal	13	–
5	–	14	Front Radar Sensor Power Supply
6	–	15	–
7	–	16	–
8	–	17	–
9	–	18	–

Power Back Door Module –1 Terminal Definition



Pin	Definition	Pin	Definition
1	Left Side Jam Protection Signal	9	–
2	–	10	–
3	Back Door Closer Switch	11	–
4	Return Signal	12	–
5	Half Latch Signal	13	–
6	Full Latch Signal	14	–
7	CAN–L	15	CAN–H
8	Right Side Jam Protection Signal	16	Signal Ground

Power Back Door Module –2 Terminal Definition



Pin	Definition	Pin	Definition
1	Back Door Lock Motor 2	4	Power Supply
2	Back Door Lock Motor 1	5	–
3	Power Supply	6	Ground

Power Back Door Module –3 Terminal Definition



Pin	Definition	Pin	Definition
1	Support Motor ON	8	“Hall Sensor Power Supply” of Electric Support
2	Support Motor OFF	9	“Hall Signal 1” of Electric Support
3	–	10	“Hall Signal 2” of Electric Support
4	–	11	“Hall Sensor Ground” of Electric Support
5	–	12	–
6	–	13	–
7	–	14	–

Left Blind Spot Detection Module Terminal Definition

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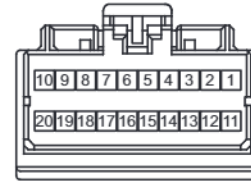
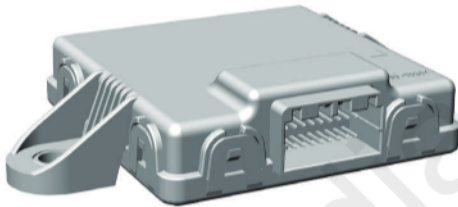
Pin	Definition	Pin	Definition
1	Special CAN–L	5	Ground
2	Special CAN–H	6	Body CAN–L
3	–	7	Body CAN–H
4	HMI Drive	8	Power Supply

Right Blind Spot Detection Module Terminal Definition



Pin	Definition	Pin	Definition
1	Special CAN-L	5	Ground
2	Special CAN-H	6	Body CAN-L
3	Ground	7	Body CAN-H
4	HMI Drive	8	Power supply

Gateway Module Terminal Definition



Pin	Definition	Pin	Definition
1	Body CAN-H	11	Body CAN-L
2	Power CAN-H	12	Power CAN-L
3	Chassis CAN-H	13	Chassis CAN-L
4	–	14	–
5	Information Entertainment CAN-H	15	Information Entertainment CAN-L
6	Diagnosis CAN-H	16	Diagnosis CAN-L
7	–	17	LIN
8	–	18	Power Supply
9	–	19	Power Supply
10	–	20	Ground

Drive Recorder Terminal Definition

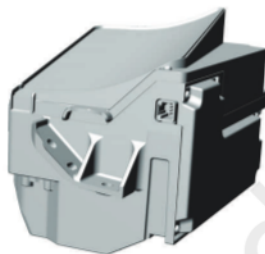


Driving Recorder



Pin	Definition	Pin	Definition
1	Battery Positive	5	Ground
2	IGN	6	–
3	CAN_H	7	CAN_L
4	–	8	–

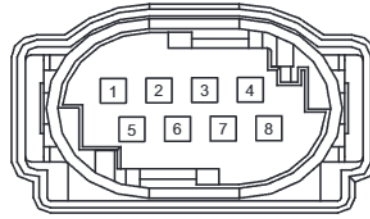
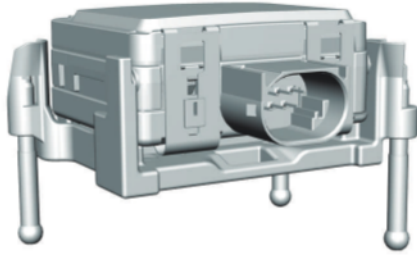
Head Up Display Terminal Definition



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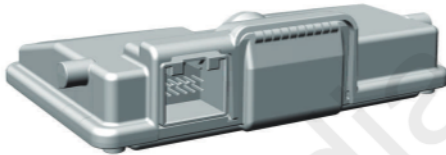
Pin	Definition	Pin	Definition
1	Ground	5	Power Supply
2	Power Supply	6	–
3	CAN_H	7	CAN_L
4	–	8	–

Front Radar Module Terminal Definition



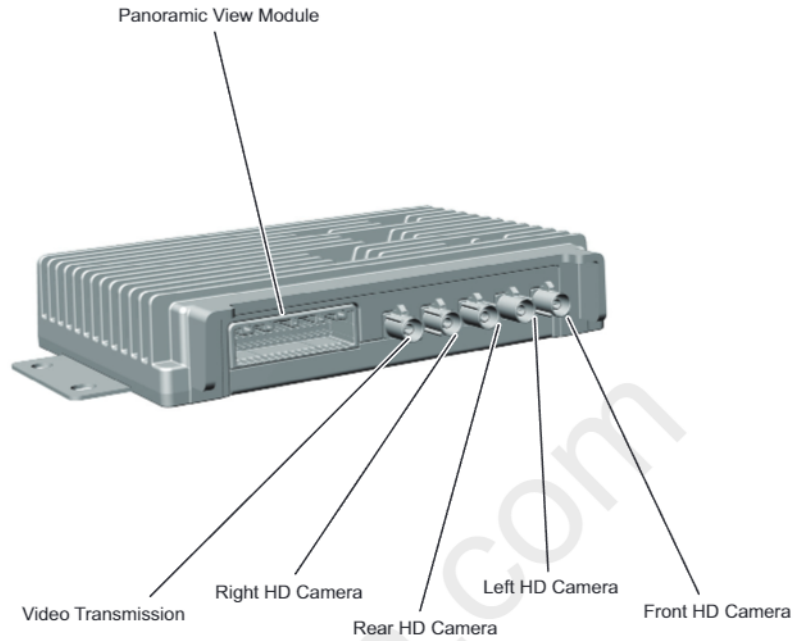
Pin	Definition	Pin	Definition
1	Ground	5	Internal CAN H
2	C-CAN H	6	Internal CAN L
3	C-CAN L	7	–
4	–	8	Power Supply

Front Camera Terminal Definition



Pin	Definition	Pin	Definition
1	Private CAN-L	7	Private CAN-H
2	CAN-L	8	CAN-H
3	Reserved	9	/
4	Front Windshield Heating (Reserved)	10	Windshield Heating Ground (Reserved)
5	Ground	11	/
6	KL15	12	/

Panoramic View Controller



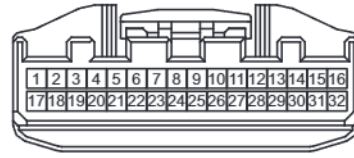
Panoramic View Controller (Without APA) Terminal Definition

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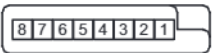
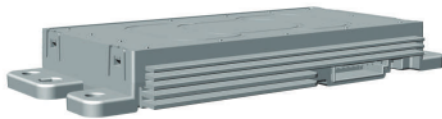
Pin	Definition	Pin	Definition
1	–	5	–
2	BCAN–H	6	BCAN–L
3	Ignition Signal	7	SWITCH
4	Ground	8	Power supply

Panoramic View Controller (With APA) Terminal Definition



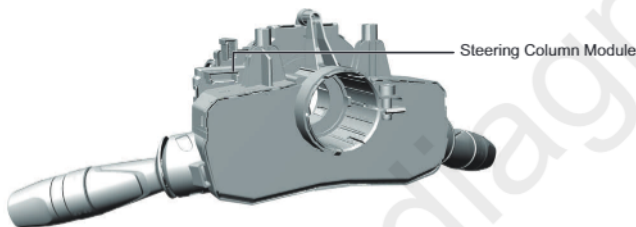
Pin	Definition	Pin	Definition
1	APA-LED	17	APA Switch Signal (Low Level)
2	PDC-LED	18	PDC Switch Signal (Low Level)
3	Signal Ground (Rear)	19	Signal Power Supply (Rear)
4	Signal (Rear Right)	20	Signal (Rear Left)
5	Signal (rear left)	21	Signal (Rear Left Center)
6	Signal (Rear Right Center)	22	Signal (Rear Right)
7	Signal Ground (Front)	23	Signal Power Supply (Front)
8	Signal (Front Right)	24	Signal (Front Left)
9	Signal (front left)	25	Signal (front left)
10	Signal (Front Right)	26	Signal (Front Right)
11	–	27	AVM Switch Signal (Low Level)
12	–	28	–
13	–	29	–
14	Chassis – CAN_L	30	Chassis – CAN_H
15	–	31	Power Supply
16	Ground	32	Power Supply

Wireless Charging Module Terminal Definition



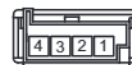
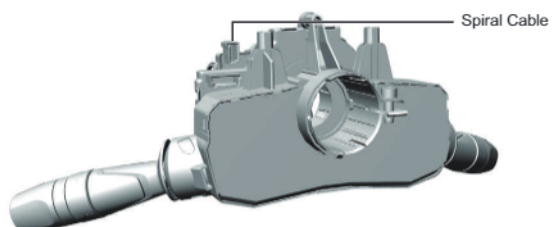
Pin	Definition	Pin	Definition
1	Power Supply	5	I-CAN H
2	Power Supply	6	I-CAN L
3	–	7	–
4	Ground	8	–

Steering Column Module Terminal Definition



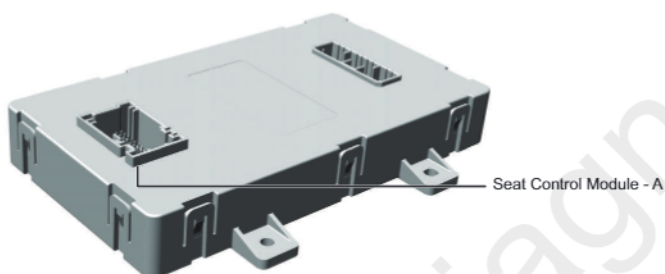
Pin	Definition	Pin	Definition
1	Power supply	4	CAN H
2	–	5	LIN
3	CAN L	6	Ground

Spiral Cable Terminal Definition



Pin	Definition	Pin	Definition
1	Ground	3	Airbag Positive
2	Electric Horn	4	Airbag Negative

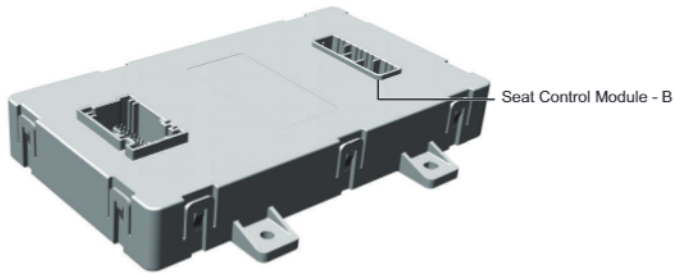
Seat Control Module –A Terminal Definition



Pin	Definition	Pin	Definition
1	15 Power Detection	27	–
2	Front Left Seat Height Adjustment Switch	28	–
3	Front Left Seat Front-back Adjustment Switch	29	–
4	Front Left Seatback Adjustment Switch	30	–
5	Front Left Seat Cushion Adjustment Switch	31	–
6	–	32	–
7	–	33	Seat Height HALL Signal
8	–	34	Seat Horizontal HALL Signal
9	–	35	Seatback HALL Signal
10	–	36	Seat Cushion HALL Signal
11	–	37	–
12	–	38	–

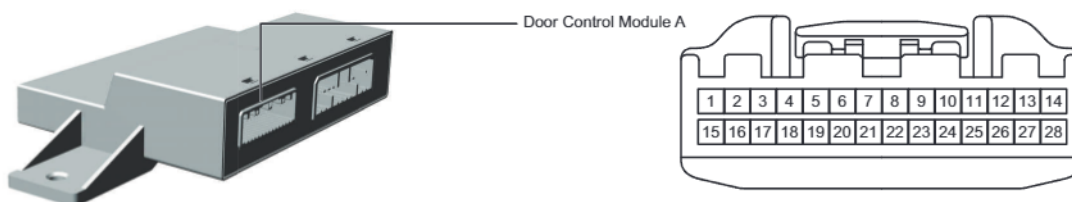
Pin	Definition	Pin	Definition
13	–	39	–
14	–	40	–
15	–	41	–
16	Front Right Seat NTC Feedback	42	Front Left Seat Cushion Ventilation
17	Front Left Seat NTC Feedback	43	Front Right Seat Cushion Ventilation
18	–	44	Seat HALL Signal Ground
19	Switch Ground	45	Front Left Seat NTC Ground
20	–	46	Front Right Seat NTC Ground
21	–	47	CANH
22	–	48	CANL
23	–	49	–
24	–	50	–
25	–	51	–
26	–	52	–

Seat Control Module –B Terminal Definition



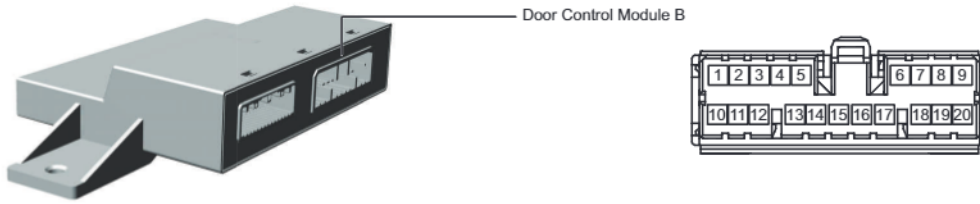
Pin	Definition	Pin	Definition
1	Front right seat heating ground	11	Front Left Seatback/Cushion Adjustment Common Terminal
2	–	12	Front Left Seatback Adjustment
3	–	13	Front Left Seat Cushion Adjustment
4	–	14	Power Supply
5	–	15	Ground
6	–	16	Ground
7	–	17	Power Supply
8	Front Left Seat Heating Ground	18	Front Left Seat Height Adjustment
9	Front Left Seat Heating Output	19	Front Left Seat Front–back Adjustment
10	Front Right Seat Heating Output	20	Front Left Height/Front–back Adjustment Common Terminal

Door Control Module A Terminal Definition



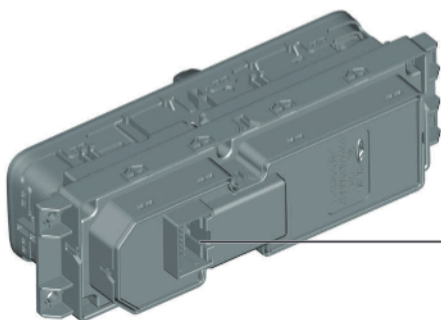
Pin	Definition	Pin	Definition
1	Driver Glass Regulator Switch	15	Left Rear View Mirror Upper And Lower Position Signal
2	Driver Glass Regulator Switch	16	Left Rear View Mirror Left And Right Position Signal
3	Right Rear View Mirror Upper And Lower Position Signal	17	CAN-H
4	Right Rear View Mirror Left And Right Position Signal	18	CAN-L
5	Driver Glass Regulator Switch	19	–
6	Driver Glass Regulator Switch	20	Ground
7	IGN Power Supply	21	Sensor Ground
8	Rear View Mirror Folding Input	22	–
9	–	23	–
10	Rear View Mirror Switch – 1	24	Rear View Mirror Position Sensor Power Supply
11	Rear View Mirror Switch – 2	25	–
12	Rear View Mirror Switch – 3	26	Central Control Switch Lock Input
13	Rear View Mirror Switch – 4	27	Central Control Switch Unlock Input
14	Rear View Mirror Switch – 5	28	Window Lock Switch

Door Control Module B Terminal Definition

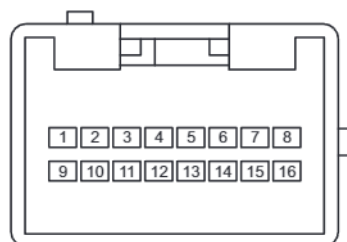


Pin	Definition	Pin	Definition
1	–	11	Ground
2	–	12	Ground
3	Blind Spot Detection Output	13	Right Rear View Mirror Adjustment Common Terminal
4	–	14	Right Rear View Mirror Horizontal Adjustment
5	Window Lock Switch Indicator Light	15	Right Rear View Mirror Vertical Adjustment
6	Rear Right Door Panel Warning Light	16	Power Supply
7	–	17	Rear Left Door Panel Warning Light
8	–	18	Left Rear View Mirror Vertical Adjustment
9	Power Supply	19	Left Rear View Mirror Horizontal Adjustment
10	–	20	Left Rear View Mirror Adjustment Common Terminal

Electronic Shift Module Terminal Definition



Electronic Shift Module



Pin	Definition	Pin	Definition
1	CAN-L	9	–
2	CAN-H	10	SW6
3	–	11	AUTOHOLD Switch Operation Indicator Drive
4	Ground	12	AUTOHOLD Switch Signal Output
5	Power Supply	13	SW4
6	–	14	SW3
7	Ignition Signal	15	EPB Switch Operation Indicator Drive
8	–	16	SW1

