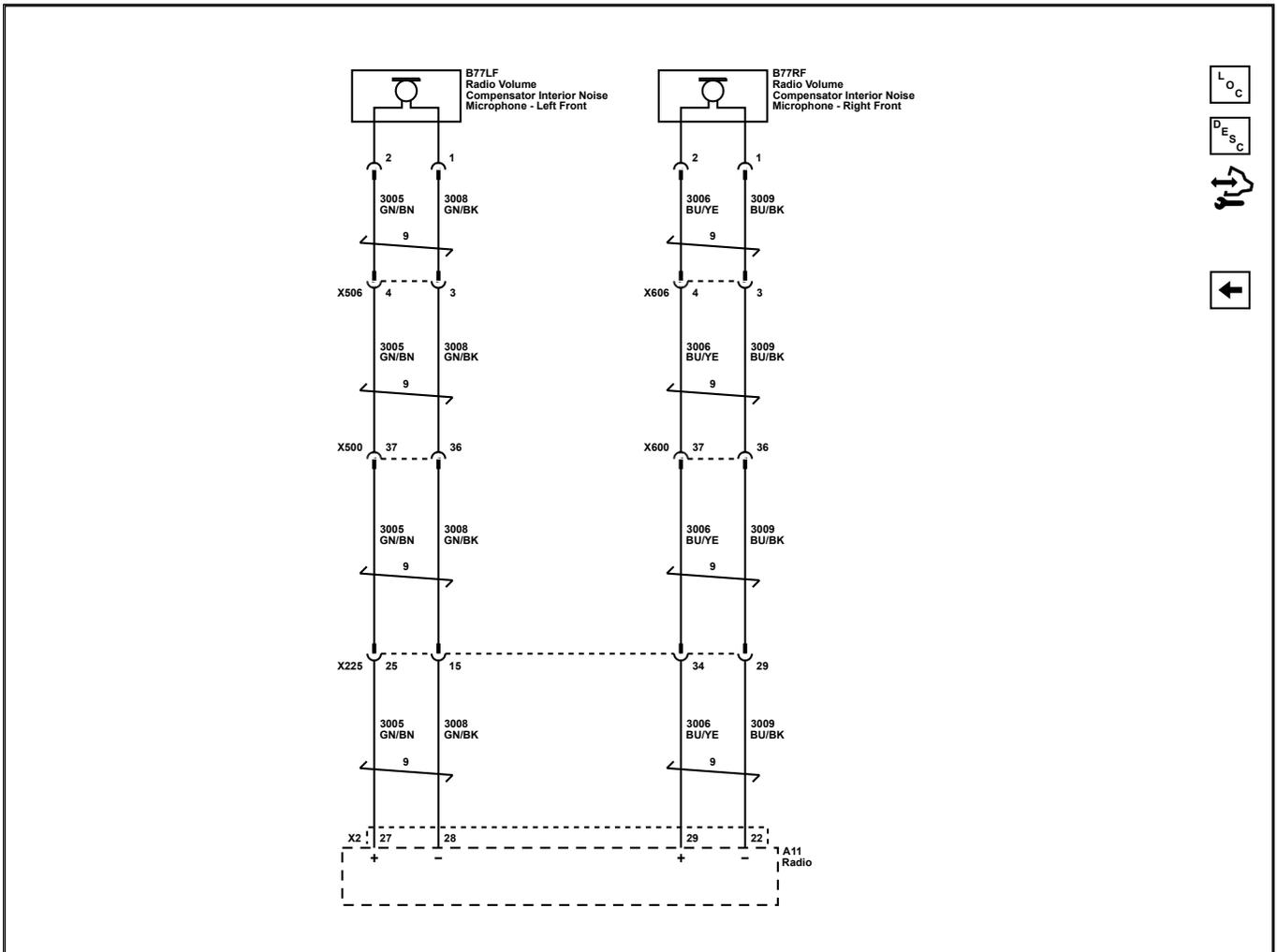
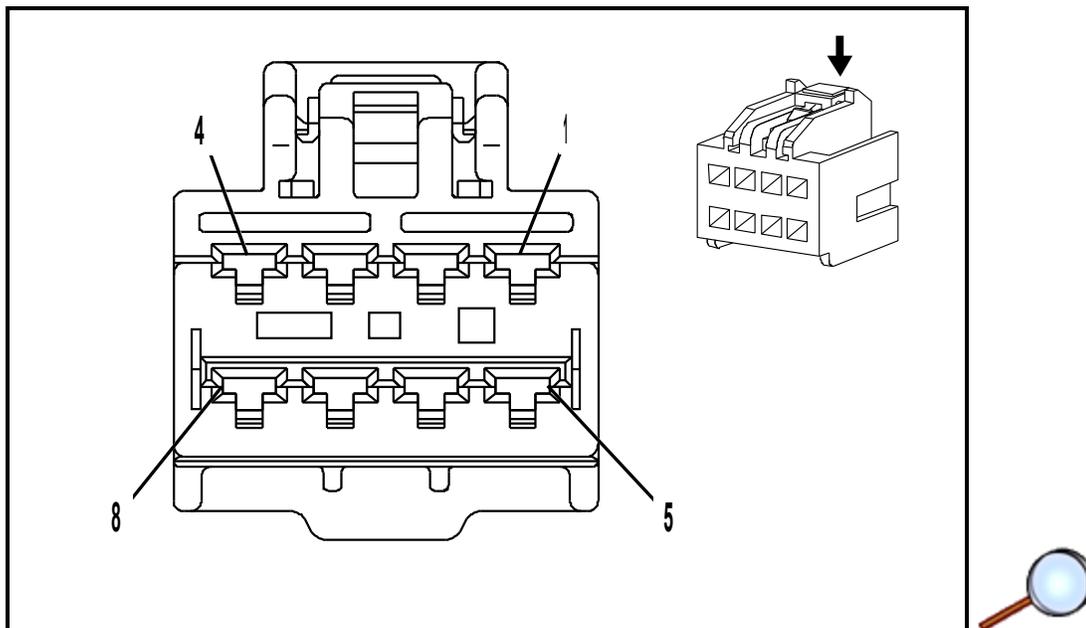


Active Noise Cancellation Microphone (IOR+NKC)



Document ID: 5815202

K108 Active Noise Cancellation Module X1 (UQ3+NKC)



Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 15134093
- Service Connector: 85576725
- Description: 8-Way F 2.8 Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

K108 Active Noise Cancellation Module X1 (UQ3+NKC)

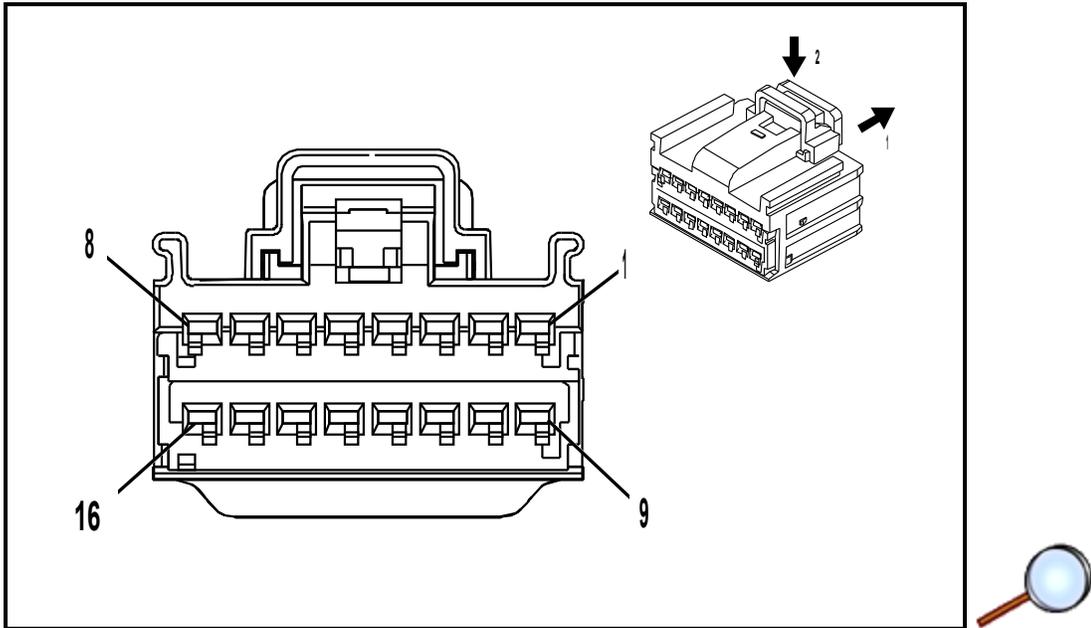
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	0.35	GN / YE	7066	Entertainment Remote Enable Signal	I	IOS+ NKC+ UQ3
4	3	RD / YE	240	Battery Positive Voltage	I	IOS+ NKC+ UQ3

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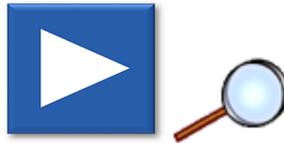
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
5 - 7	—	—	—	Not Occupied	—	—
8	3	BK / WH	1551	Signal Ground	I	IOS+ NKC+ UQ3

Document ID: 5815203

K108 Active Noise Cancellation Module X2 (UQ3+NKC)



Click Image For Video



Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 13591061
- Service Connector: 13591061
- Description: 16-Way F 1.5 OCS Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	84757974	J-35616-2A (GY)	J-38125-215A

K108 Active Noise Cancellation Module X2 (UQ3+NKC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option

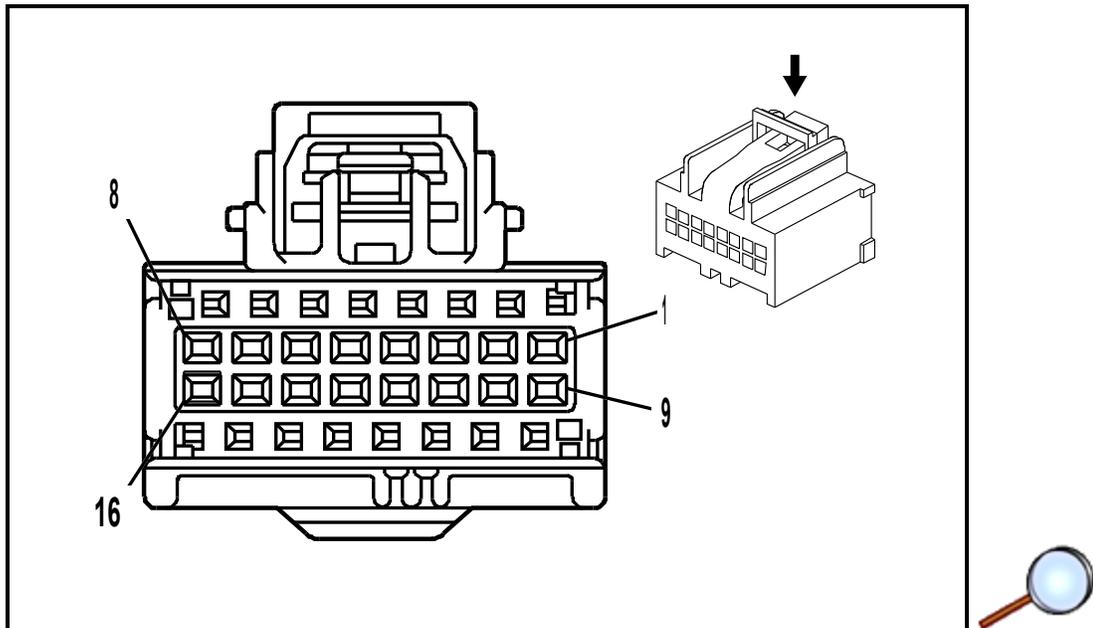
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Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BU	511	Left Front Low Level Audio Signal	I	IOS+ NKC+ UQ3
2	0.75	YE	512	Right Front Low Level Audio Signal	I	IOS+ NKC+ UQ3
3	0.75	GN / BK	599	Left Rear Low Level Audio Signal	I	IOS+ NKC+ UQ3
4	0.75	BN / WH	546	Right Rear Low Level Audio Signal	I	IOS+ NKC+ UQ3
5	0.75	BU	201	Left Front Speaker 1 [+] Control	I	IOS+ NKC+ UQ3
6	0.75	YE	200	Right Front Speaker 1 [+] Control	I	IOS+ NKC+ UQ3
7	0.75	GN	199	Left Rear Speaker [+] Control	I	IOS+ NKC+ UQ3
8	0.75	WH	46	Right Rear Speaker [+] Control	I	IOS+ NKC+ UQ3
9	0.75	BN / BU	1947	Left Front Low Level Audio [-] Signal	I	IOS+ NKC+ UQ3
10	0.75	BU / BN	1546	Front Low Level Audio [-] Signal	I	IOS+ NKC+ UQ3
11	0.75	BN / VT	1999	Left Rear Low Level Audio [-] Signal	I	IOS+ NKC+ UQ3
12	0.75	BU / BK	1946	Right Rear Low Level Audio [-] Signal	I	IOS+ NKC+ UQ3
13	0.75	BN / BU	118	Left Front Speaker [-] Control 1	I	IOS+ NKC+ UQ3
14	0.75	YE / BK	117	Right Front Speaker [-] Control 1	I	IOS+ NKC+ UQ3
15	0.75	GN / BK	116	Left Rear Speaker [-] Control	I	IOS+ NKC+ UQ3
16	0.75	BU / BK	115	Right Rear Speaker [-] Control	I	IOS+ NKC+ UQ3

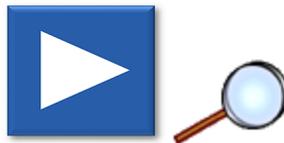
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Document ID: 5815204

K108 Active Noise Cancellation Module X3 (UQ3+NKC)



Click Image For Video



Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 15136073
- Service Connector: 15136073
- Description: 16-Way F 0.64 Kaizen Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19303553	J-35616-64B (L-BU)	J-38125-215A

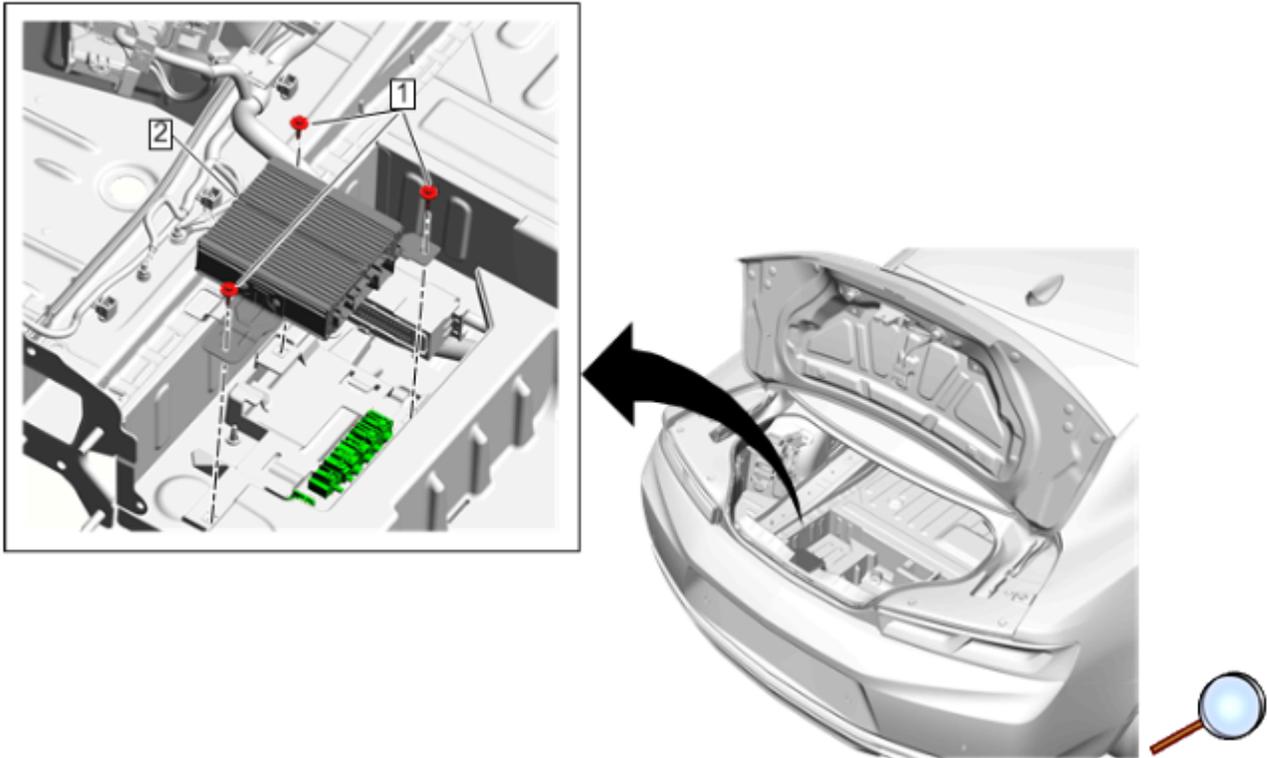
K108 Active Noise Cancellation Module X3 (UQ3+NKC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option

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Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE	804	Door Ajar Indicator Control	I	IOS+ NKC+ UQ3
2 - 3	—	—	—	Not Occupied	—	—
4	0.35	GN / BN	3005	Active Noise Cancellation Microphone 1 Signal	I	(- CM8) + IOS+ NKC+ UQ3
5	0.35	BU / YE	3006	Active Noise Cancellation Microphone 2 Signal	I	(- CM8) + IOS+ NKC+ UQ3
6 - 11	—	—	—	Not Occupied	—	—
12	0.35	GN / BK	3008	Active Noise Cancellation Microphone 1 Feedback Signal	I	(- CM8) + IOS+ NKC+ UQ3
13	0.35	BU / BK	3009	Active Noise Cancellation Microphone 2 Feedback Signal	I	(- CM8) + IOS+ NKC+ UQ3
14 - 16	—	—	—	Not Occupied	—	—

Active Noise Cancellation Module Replacement

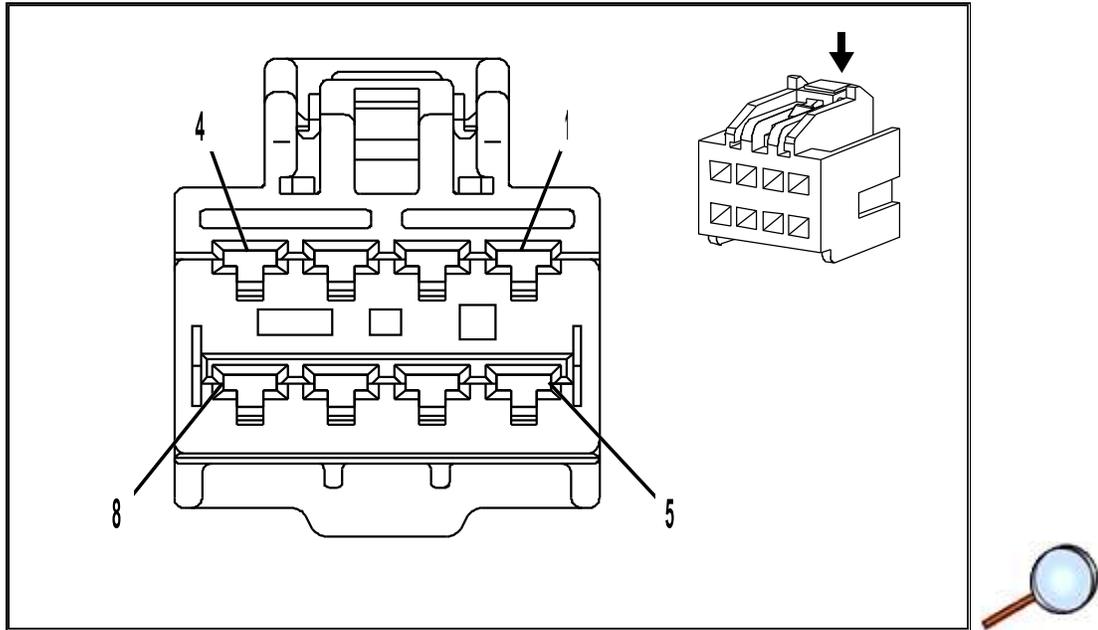


Active Noise Cancellation Module Replacement

Callout	Component Name
Preliminary Procedure Rear Compartment Side Trim Replacement - Left Side	
1	Radio Speaker Amplifier Bolt [3x] Caution: Refer to Fastener Caution . Tighten 2.5N•m (22 lb in)
2	Active Noise Cancellation Module Procedure Disconnect the electrical connectors.

Document ID: 6088312

K108 Active Noise Cancellation Module X1



Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 15134093
- Service Connector: 85576725
- Description: 8-Way F 2.8 Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

K108 Active Noise Cancellation Module X1

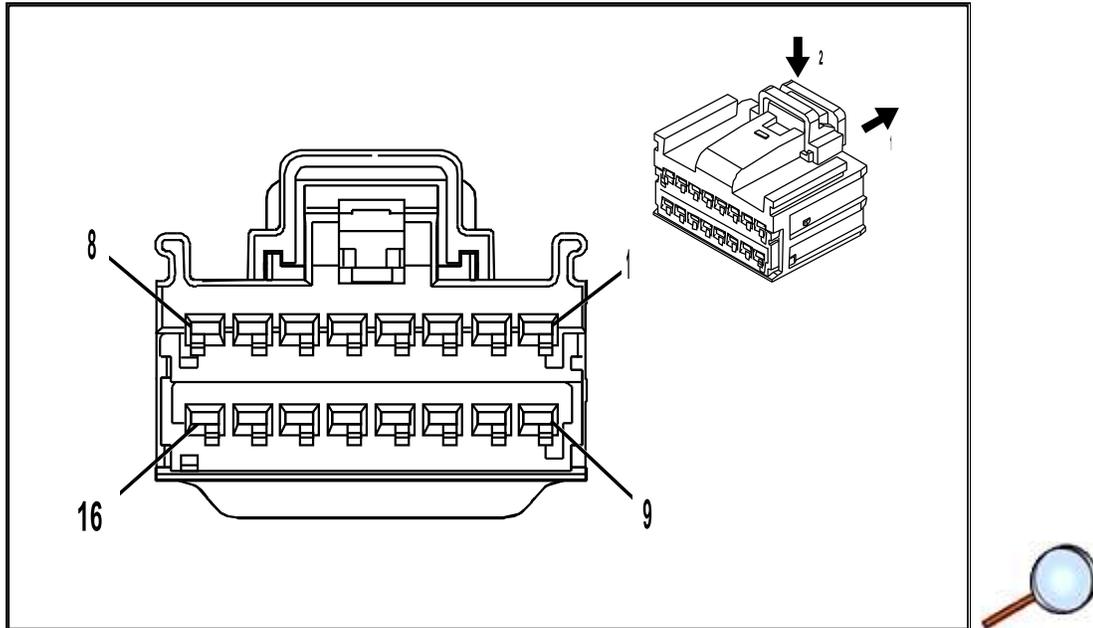
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	0.35	GN / YE	7066	Entertainment Remote Enable Signal	I	IOS+ NKC+ UQ3
4	3	RD / VE	240	Battery Positive Voltage	I	IOS+ NKC+ UQ3

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Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
5 - 7	—	—	—	Not Occupied	—	—
8	3	BK / WH	1551	Signal Ground	I	IOS+ NKC+ UQ3

Document ID: 6088313

K108 Active Noise Cancellation Module X2 (UQ3+NKC)



Click Image For Video



Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 13591061
- Service Connector: 13591061
- Description: 16-Way F 1.5 OCS Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	84757974	J-35616-2A (GY)	J-38125-215A

K108 Active Noise Cancellation Module X2 (UQ3+NKC)

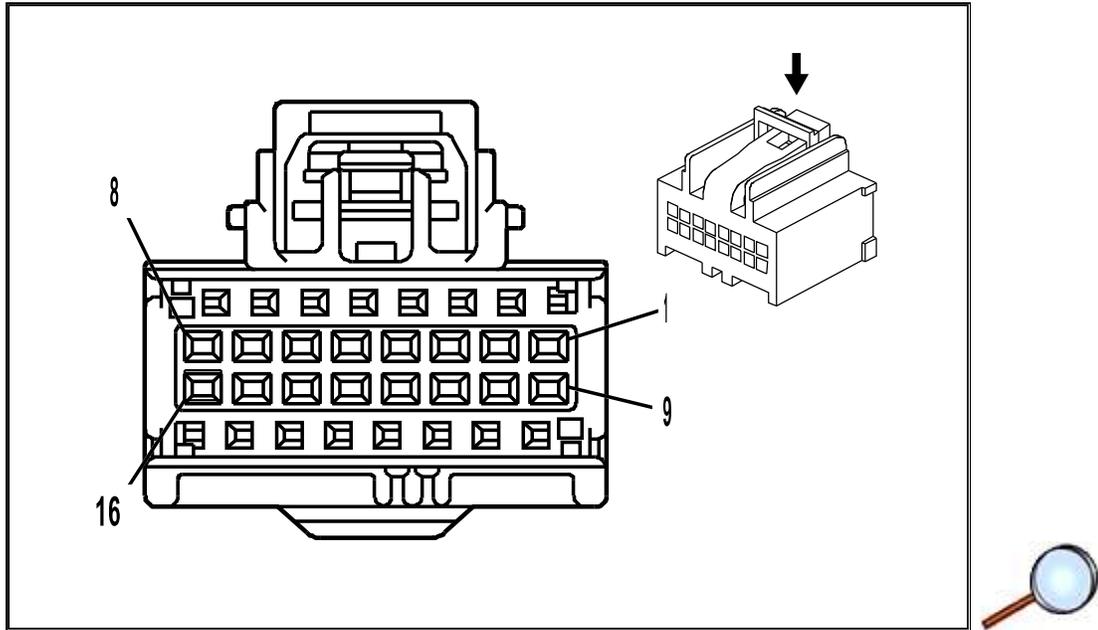
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BU	511	Left Front Low Level Audio Signal	I	IOS+ NKC+

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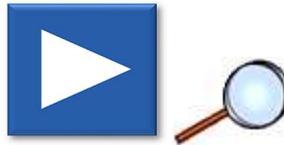
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
2	0.75	YE	512	Right Front Low Level Audio Signal	I	IOS+ NKC+ UQ3
3	0.75	GN / BK	599	Left Rear Low Level Audio Signal	I	IOS+ NKC+ UQ3
4	0.75	BN / WH	546	Right Rear Low Level Audio Signal	I	IOS+ NKC+ UQ3
5	0.75	BU	201	Left Front Speaker 1 [+] Control	I	IOS+ NKC+ UQ3
6	0.75	YE	200	Right Front Speaker 1 [+] Control	I	IOS+ NKC+ UQ3
7	0.75	GN	199	Left Rear Speaker [+] Control	I	IOS+ NKC+ UQ3
8	0.75	WH	46	Right Rear Speaker [+] Control	I	IOS+ NKC+ UQ3
9	0.75	BN / BU	1947	Left Front Low Level Audio [-] Signal	I	IOS+ NKC+ UQ3
10	0.75	BU / BN	1546	Front Low Level Audio [-] Signal	I	IOS+ NKC+ UQ3
11	0.75	BN / VT	1999	Left Rear Low Level Audio [-] Signal	I	IOS+ NKC+ UQ3
12	0.75	BU / BK	1946	Right Rear Low Level Audio [-] Signal	I	IOS+ NKC+ UQ3
13	0.75	BN / BU	118	Left Front Speaker [-] Control 1	I	IOS+ NKC+ UQ3
14	0.75	YE / BK	117	Right Front Speaker [-] Control 1	I	IOS+ NKC+ UQ3
15	0.75	GN / BK	116	Left Rear Speaker [-] Control	I	IOS+ NKC+ UQ3
16	0.75	BU / BK	115	Right Rear Speaker [-] Control	I	IOS+ NKC+ UQ3

Document ID: 6088314

K108 Active Noise Cancellation Module X3 (UQ3+NKC)



Click Image For Video



Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 15136073
- Service Connector: 15136073
- Description: 16-Way F 0.64 Kaizen Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19303553	J-35616-64B (L-BU)	J-38125-215A

K108 Active Noise Cancellation Module X3 (UQ3+NKC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE	804	Door Ajar Indicator Control	I	IOS+ NKC+

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Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
4	0.35	GN / BN	3005	Active Noise Cancellation Microphone 1 Signal	I	IOS+ NKC+ UQ3
5	0.35	BU / YE	3006	Active Noise Cancellation Microphone 2 Signal	I	IOS+ NKC+ UQ3
6 - 11	—	—	—	Not Occupied	—	—
12	0.35	GN / BK	3008	Active Noise Cancellation Microphone 1 Feedback Signal	I	IOS+ NKC+ UQ3
13	0.35	BU / BK	3009	Active Noise Cancellation Microphone 2 Feedback Signal	I	IOS+ NKC+ UQ3
14 - 16	—	—	—	Not Occupied	—	—

Active Noise Cancellation Description and Operation (NKC with UQ3)

The entertainment system on this vehicle may have several different configurations. To determine the specific configuration of the vehicle, please see the Service Parts ID Label, and refer to [RPO Code List](#).

The main components of the Active Noise Cancellation system are:

- 2 microphones in the vehicle door trim.
- A discrete engine speed (RPM) signal from the engine control module to the active noise cancellation module.
- Active Noise Cancellation electronics and software integrated into the active noise cancellation module.
- The vehicle speaker system, connected to the active noise cancellation module, to output the desired cancellation frequencies.

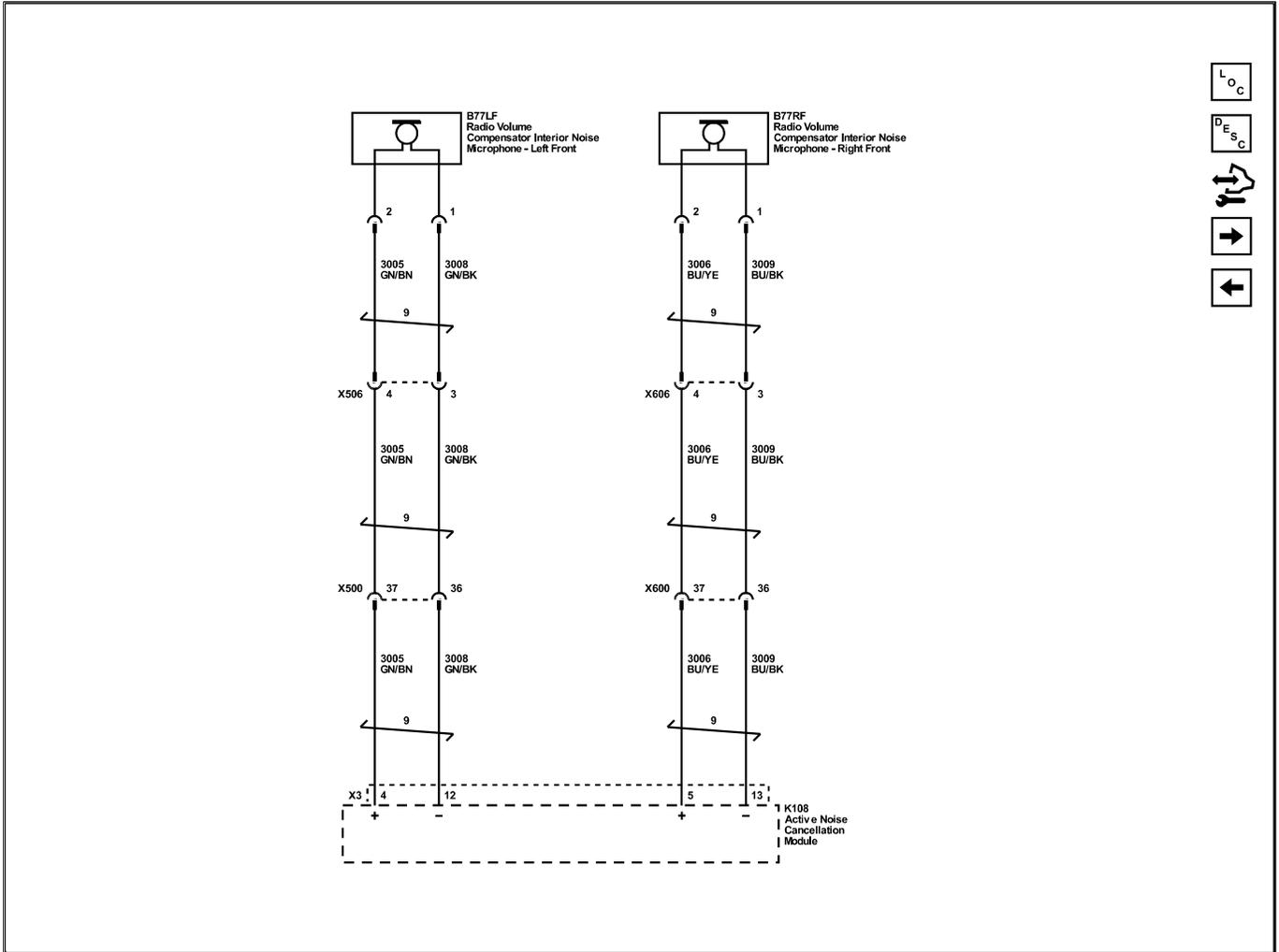
The Active Noise Cancellation system is operational under the following conditions:

- All doors are closed
- Battery voltage is between 9.5 V and 16 V
- The vehicle cabin temperature is less than 140°F (60°C)
- Engine speed is between 550 and 3000 RPM

The Active Noise Cancellation system is a method used to reduce the perception of certain undesirable sounds generated by the engine into the vehicle cabin. The system uses microphone and engine speed signals, software integrated into the active noise cancellation module, and the vehicle speakers to determine and generate the correct frequencies needed to achieve the desired reduction.

Two microphones are located in the door trim to monitor noise/sounds in the vehicle cabin, and are directly connected to the active noise cancellation module. The active noise cancellation module also receives engine speed (RPM) signal from the engine control module. The active noise cancellation module processes these inputs to determine the frequency of the undesirable sound. The active noise cancellation module then calculates the appropriate cancellation frequency and outputs a cancellation signal (audio tone) to the vehicle speakers to reduce the perception of undesirable sounds by the vehicle occupants so the vehicle cabin appears quieter and without vibration.

Active Noise Cancellation Microphone (UQ3+NKC)



Active Noise Cancellation Module Power, Ground, Controls, and Subsystem References (UQ3+NKC)

