

Criminalistics, Inc.

www.criminalistics-k9.com

Install Help 1-844-4K9-SAFE (459-7233)

Door unlock Interface - preliminary

On the rear doors for the Tahoe, the door lock/unlock actuator and child safety lock actuators are integrated directly into the door latch assembly and are controlled by the Body Control module of the vehicle. In order for the K9 unit to unlock door, you may need to install two automotive SPST relays to actuate both lock motors inside latch. If only door unlock motor is used, child safety lock may also be on and prevent Bailout solenoid from opening door.

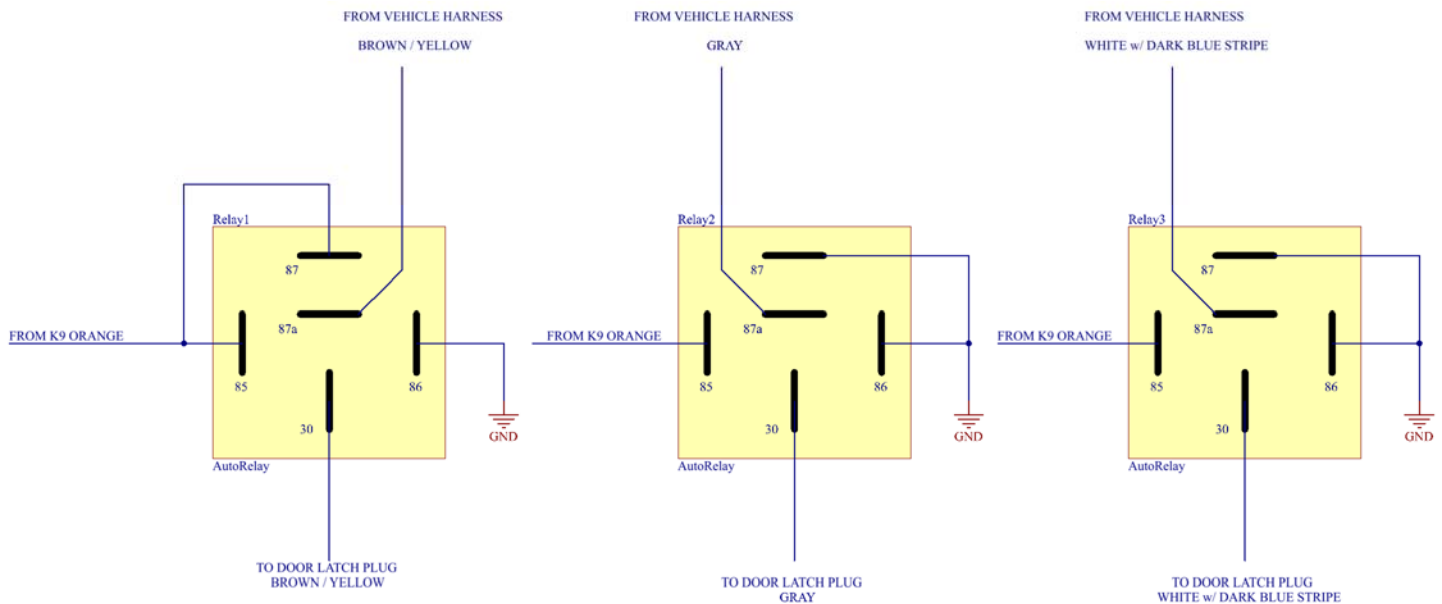
The recommend hook up is shown below. Please note wire colors listed on diagram are from the 2015 Body Builders guide, but should apply to several vehicle years. Relay 1 & 2 is for door unlock function and relay 3 is for child safety unlock function.

Option 1: - tap into wires at door latch assembly

Note: This option will activate both door unlock function as well as release child safety lock.

The Brown/Yellow, Gray and White/Dark Blue stripe that go to the plug on the door latch must be cut and relay is installed between the cut wires. The harness side of the cut wire goes to terminal 87A of the relay and cut wire going to the plug goes to terminal 30 of the relay.

If needed you can tap into the black wire of the plug for the GND signal of the relay. You may be able to use only the door unlock relays (1&2) without installing the child safety lock relay(3). Please fully test door with solenoid to verify proper operation.



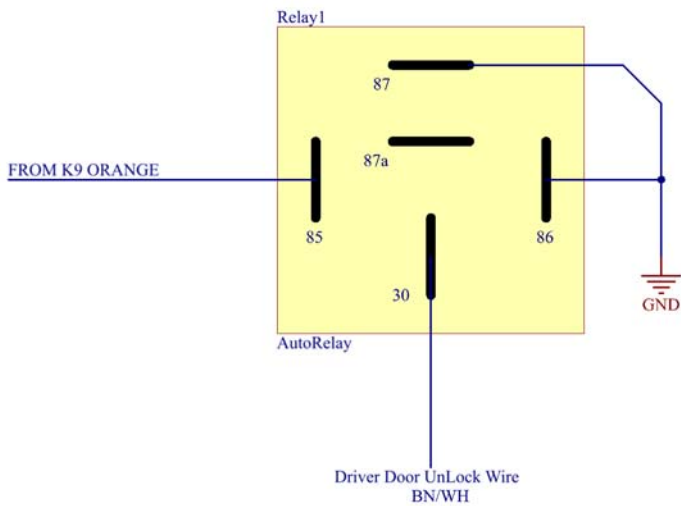
Both lock actuators share the Brown/Yellow wire for +12v unlock functions. Relays 2 & 3 provide ground. Based on diagram 4-60, unlock function is +12V on BN/YL and Ground on GY & WH/D-BU. **Relays are required because according to diagram body control module keeps ground on all pins when not used. Relay 3 is required because it appears child safety lock is open circuit by relay KR113.**

Also, some initial feedback from the field indicate there is no ground on the GY & WH/D-BU wires, but something closer to 5V. Using the 3 relays as shown above worked on a new 2015 door latch assembly on our test bench.

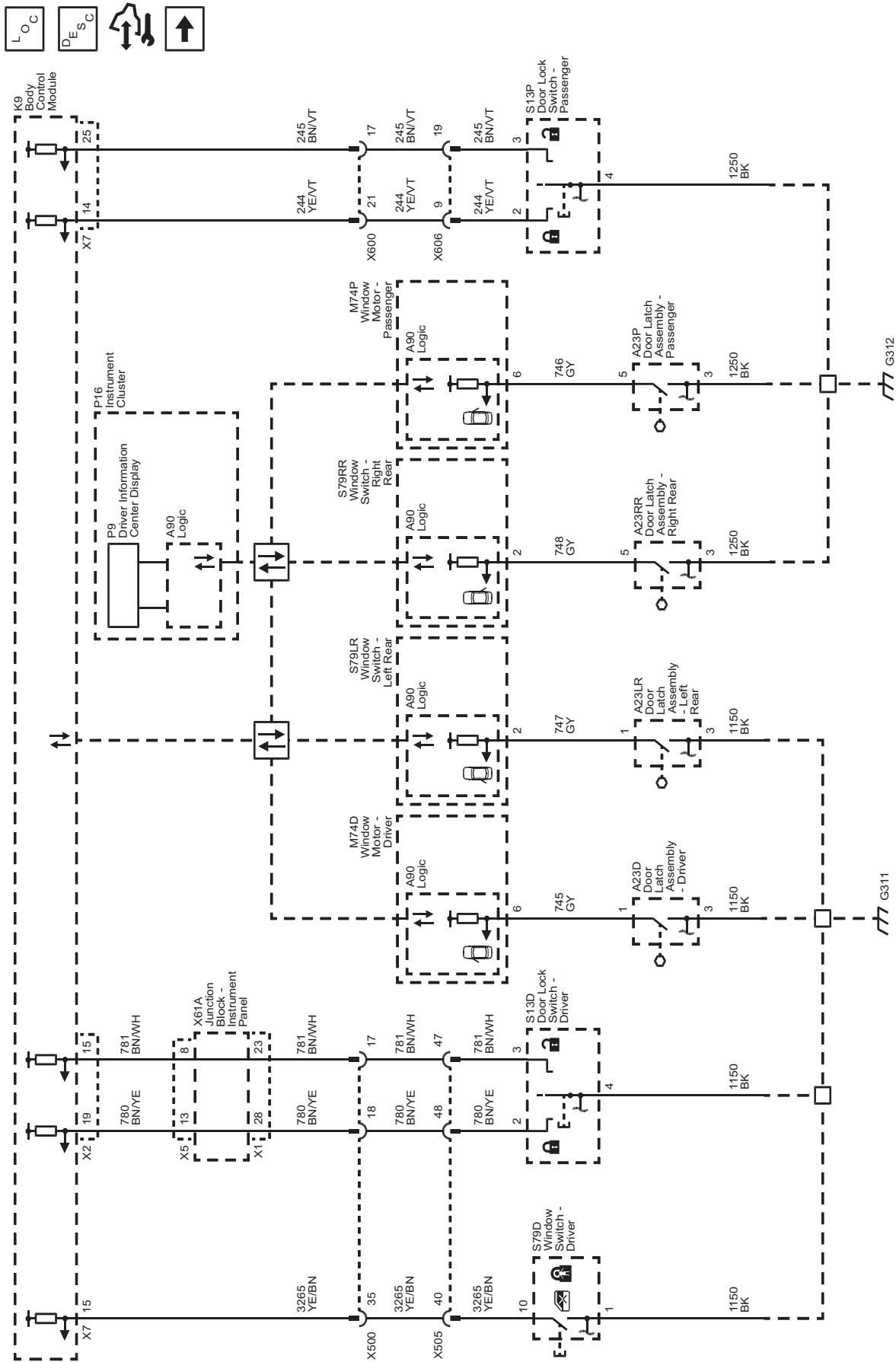
Option 2: tap into door unlock signal at driver's door.

Note: This option will unlock all vehicle doors and does not activate the release of the child safety lock.

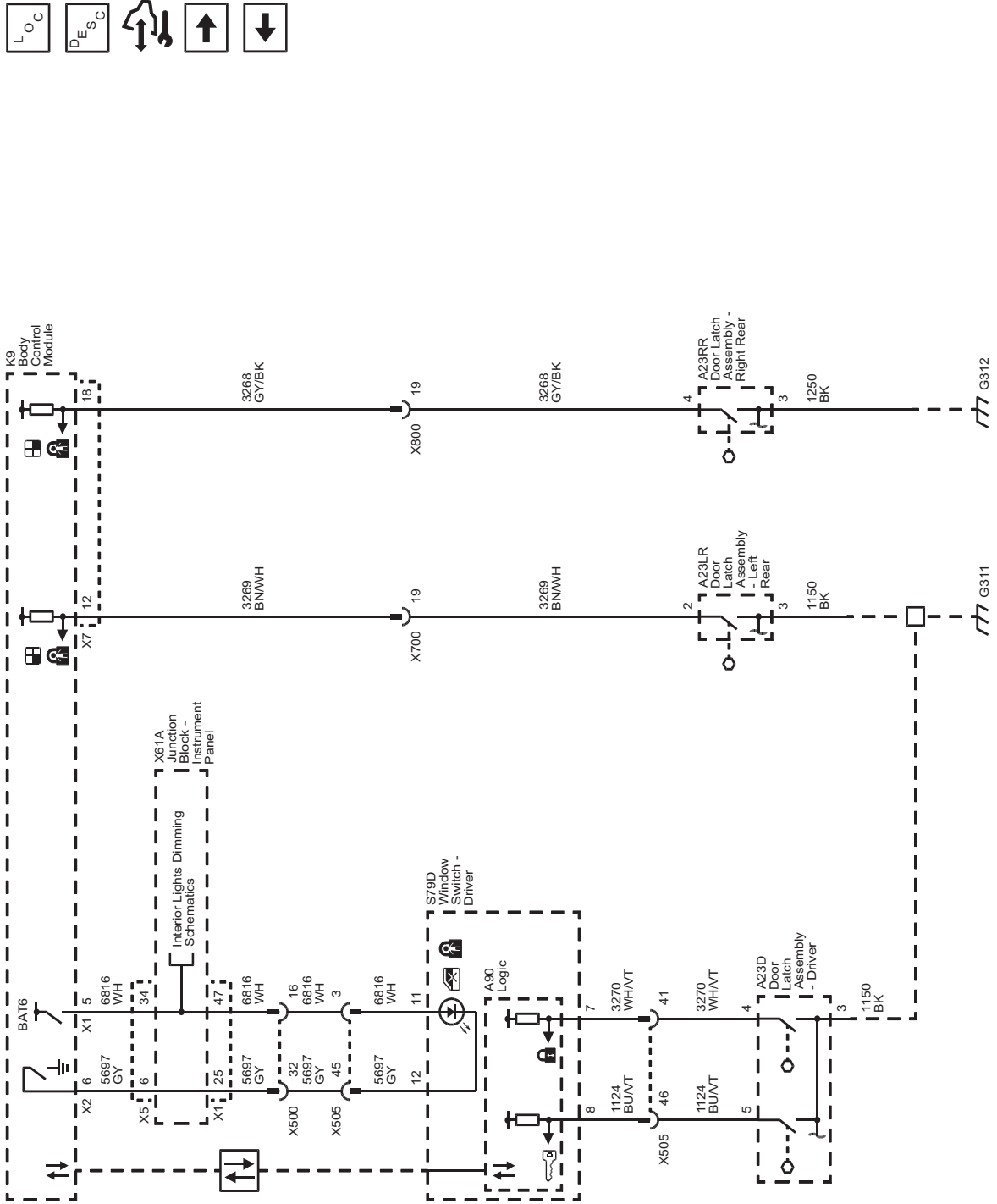
In this option, you do not need to cut the wires. You only need to tap into them. There should be a Brown w/White stripe wire in the driver's door. This is the unlock signal from the door switch. A momentary ground connection will cause all vehicle doors to unlock. Since the K9 unit outputs 12V on its unlock wire, we must use the relay to switch a ground signal on that wire. You can get GND from vehicle chassis or solid black wire at driver's door.



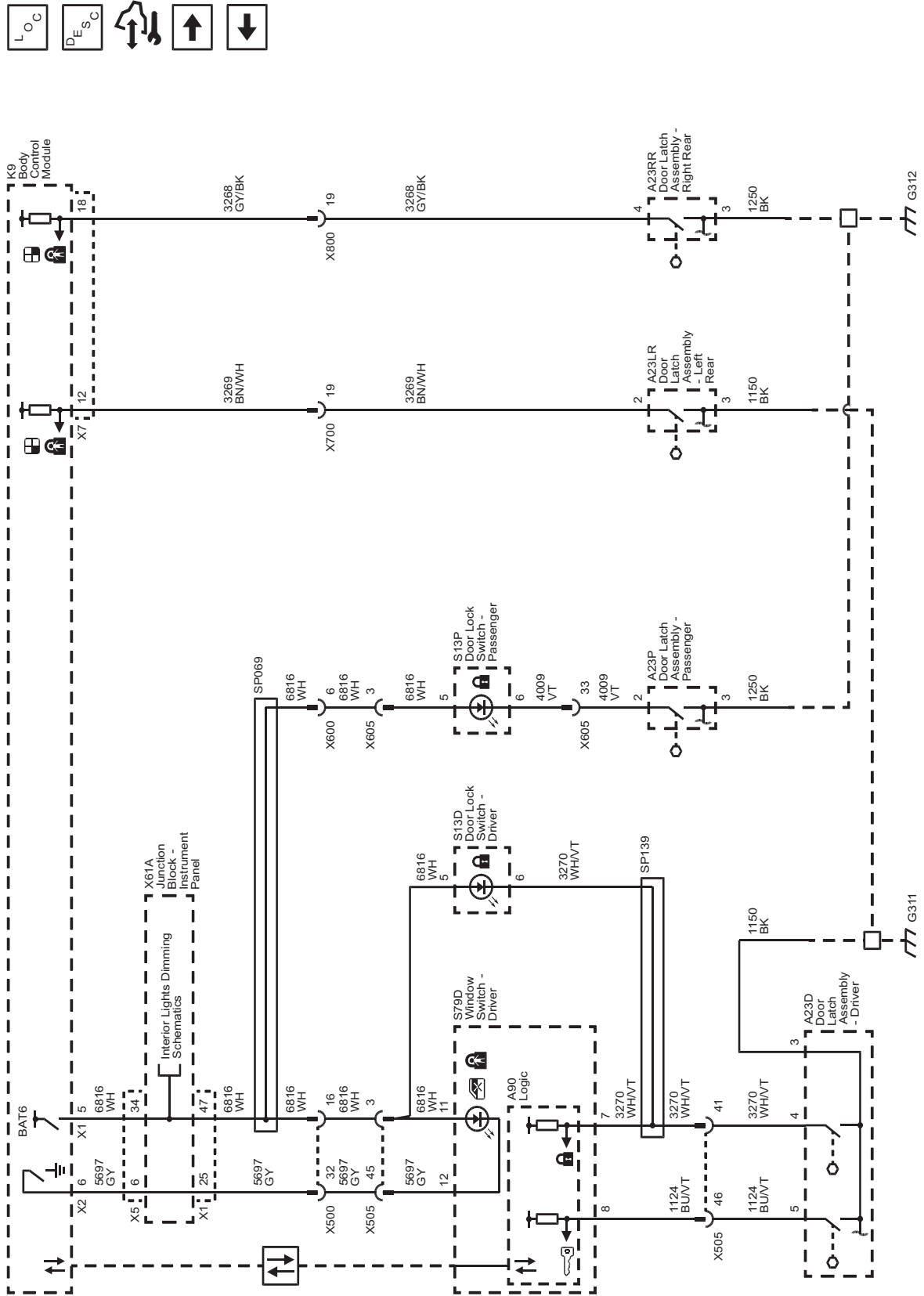
Door Lock/Indicator Schematics (Door Lock and Ajar Switches)



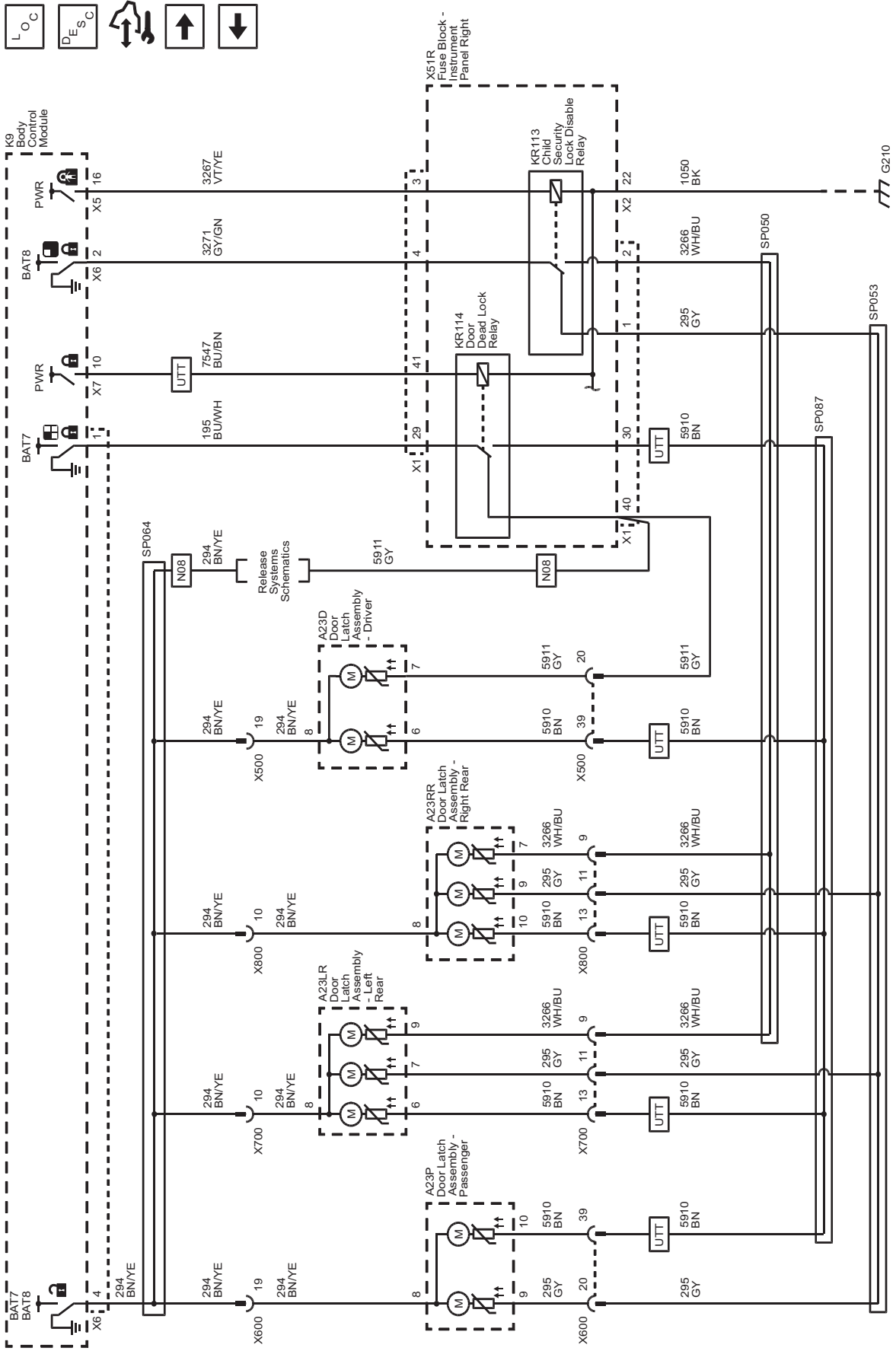
Door Lock/Indicator Schematics (Lock and Child Lock Status (X88 Chevrolet or Z88 GMC))



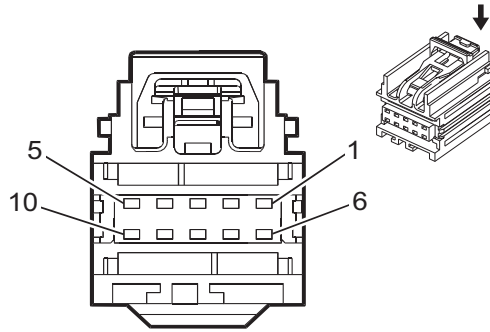
Door Lock/Indicator Schematics (Lock and Child Lock Status (Z75 Cadillac))



Door Lock/Indicator Schematics (Actuators)



A23LR Door Latch Assembly - Left Rear



2235437

Connector Part Information

Harness Type: Left Rear Door
 OEM Connector: 13576047
 Service Connector: 15127041
 Description: 10-Way F 0.64 YESC Kaizen Series (GN)

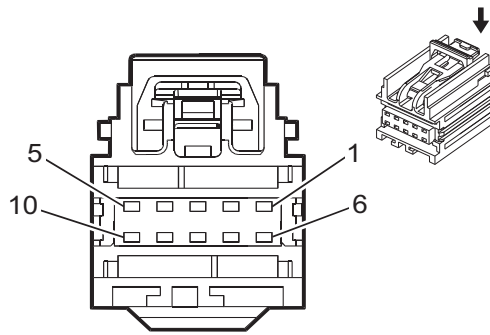
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P
II	13327118	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

A23LR Door Latch Assembly - Left Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY/WH	747	Left Rear Door Ajar Switch Signal	I	-
2	0.35	BN/WH	3269	Child Security Lock Motor Status Signal Left Rear	I	-
3	0.5	BK	1150	Ground	I	-
4-5	-	-	-	Not Occupied	-	-
6	0.75	BN	5910	Door Double Lock Actuator Lock Control	II	-
7	0.75	GY	295	Door Lock Actuator Lock Control	II	-
8	0.75	BN/YE	294	Door Lock Actuator Unlock Control	II	-
9	0.75	WH/D-BU	3266	Child Security Lock Motor Unlock Control	II	-
10	-	-	-	Not Occupied	-	-

A23RR Door Latch Assembly - Right Rear



2235437

Connector Part Information

Harness Type: Right Rear Door
 OEM Connector: 13576047
 Service Connector: 15127041
 Description: 10-Way F 0.64 YESC Kaizen Series (GN)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327118	J-35616-64B (L-BU)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
II	13327119	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

A23RR Door Latch Assembly - Right Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1-2	-	-	-	Not Occupied	-	-
3	0.5	BK	1250	Ground	II	-
4	0.35	GY/BK	3268	Child Security Lock Motor Status Signal Right Rear	II	-
5	0.35	GY/WH	748	Right Rear Door Ajar Switch Signal	II	-
6	-	-	-	Not Occupied	-	-
7	0.75	WH/D-BU	3266	Child Security Lock Motor Unlock Control	I	-
8	0.75	BN/YE	294	Door Lock Actuator Unlock Control	I	-
9	0.75	GY	295	Door Lock Actuator Lock Control	I	-
10	0.75	BN	5910	Door Double Lock Actuator Lock Control	I	-