



# Service Bulletin

## PRELIMINARY INFORMATION

**Subject:** Spark EV (BEV) TAC Parts Restriction Program And Battery Internal Component Restriction

**Models:** 2014 - 2016 Chevrolet Spark EV (BEV)  
Equipped with (RPO EN0)

*This PI was superseded to update Part Restriction. Please discard PIC5880G.*

The following diagnosis might be helpful if the vehicle exhibits the symptom(s) described in this PI.

### Condition/Concern

This PI will explain the restriction for the 2014-2016 MY Spark EV (BEV). NOTE: If the Drive Motor Battery is needed, refer to the latest versions of PIP5112 to place the order.

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### Recommendation/Instructions

The component restriction will be administered by the GM Technical Assistance Center (TAC). The servicing technician must provide detailed customer comments, conditions, diagnostic trouble codes (DTCs) and other useful information. To request restricted components, dealerships are required to call Technical Assistance (TAC). Prior to calling TAC, please read through this entire document. If diagnosis leads to replacement of one or more of the restricted components listed below please have all SI document numbers used during diagnosis available prior to contacting TAC.

TAC Telephone Number US 1-877-446-8227 (Action Center prompt or Hybrid prompt) Canada 1-800-263-7740 for English or 1-800-263-7960 for French

***Danger: Always perform the High Voltage Disabling procedure prior to servicing any High Voltage component or connection. Personal Protection Equipment (PPE) and proper procedures must be followed***

The High Voltage Disabling procedure will perform the following tasks:

- Identify how to disable high voltage.
- Identify how to test for the presence of high voltage.
- Identify condition under which high voltage is always present and personal protection equipment (PPE) and proper procedures must be followed.

Before working on any high voltage system, be sure to wear the following Personal Protection Equipment:

- Safety glasses with appropriate side shields when within 50 feet of the vehicle, either indoors or outdoors.
- Certified and up-to-date Class "0" Insulation gloves rated at 1000V with leather protectors.
- Visually and functionally inspect the gloves before use.
- Wear the Insulation gloves at all times when working with the Drive Motor Battery assembly, whether the system is energized or not. Failure to follow the procedures exactly as written may result in serious injury or death.

**Important:** If vehicle damage does not allow access to the high voltage manual disconnect, then disconnect the 12V battery and remove the damaged portion of the vehicle until such time as the HV manual disconnect can be removed and the High Voltage Disabling procedure can be completed.

1. Perform the high voltage disable procedure at the drive motor generator control module assembly or cable connections. Refer to High Voltage Disabling in SI.
2. Perform the high voltage enable procedure when the component is installed, repaired and ready to be test driven.

### Parts Information

Code	INTERNAL COMPONENTS	Part Name	Part Number	QTY
A28	2014	Generator Battery Control Wiring Junction Block, Battery Disconnect Unit (BDU)	22989598	1
A28	2015 - 2016	Generator Battery Control Wiring Junction Block, Battery Disconnect Unit (BDU)	23290177	1
E54	2014	High Voltage Battery Heater	22989588	1
E54	2015 - 2016	High Voltage Battery Heater	23472177	1
K16	2014	Battery Energy Control Module (BECM)	22989607 (Use until stock runs out, after use 13595710)	1
K16	2014 - 2016	Battery Energy Control Module (BECM)	13595710	1
K112	2014	Drive Motor Battery Interface Control Module Replacement	22989610 (Use until stock runs out, after use 13593091)	1
K112	2014 - 2016	Drive Motor Battery Interface Control Module Replacement (VTSM)	13593091	1
K112J	2014	Drive Motor Battery Interface Control Module 9 (CSM) (Current Sense Module at Front of Pack)Warranty Information)	22989621	1
N/A	2015 - 2016	High Voltage Battery Tray	23453650	1
N/A	2015 - 2016	Battery Wiring Harness Assembly (Connector)	23242247	1
N/A	2015 - 2016	Low Voltage Battery Wiring Harness Assembly (HVIL, Temp, CAN & Current Sensor)	23495424	1
N/A	2015 - 2016	Battery Wiring Harness Assembly (Cell Voltage to VTSM and BECM)	23495425 supersedes 22996861	1
N/A	2014	Battery Cell Thermal Pad (Replaced with each Battery Section or MBB)	22989585	2
N/A	2014	Fuse	22989589	1
T6	2014-2016	Hybrid Powertrain Control Module (HPCM)	12652453 24279563	1
		I am showing this as the Power Invertor Module (TPIM)		
T24	2014	AC Charger - Low Content w/o CBT (HPCC) High Voltage Battery Disconnect Control Module	22985451	1

T24	2015-2016	AC Charger - Low Content w/o CBT (HPCC) High Voltage Battery Disconnect Control Module	24279563	1
T24	2014-2016	DC Fast Charger - High Content w/ CBT (HPCC) High Voltage Battery Disconnect Control Module	23453239	1

## Warranty Information

For vehicles repaired under warranty use:

Labor operation	Description	Labor Time
5031030	Drive Motor Battery Replacement and Shipping Preparation	Use Published Labor Time
5021500	Battery Heater Replacement	Use Published Labor Time
5031010	Battery Energy Control Module Replacement	Use Published Labor Time
5030330	Drive Motor Battery Interface Control Module Replacement	Use Published Labor Time
	(VTSM / MBB) Located on the side of each Battery Section	Use Published Labor Time
5030870	Drive Motor Battery Positive High Voltage	Use Published Labor Time
	Contactor Relay Replacement (BDU)	Use Published Labor Time
5030330	Drive Motor Battery Interface Control Module	Use Published Labor Time
	(Current Sense Module at front of Battery Pack)	Use Published Labor Time
5030280	Cell Battery Pad Replacement (Thermal Pad)	Use Published Labor Time
	(Replaced with each Battery Section or MBB)	Use Published Labor Time
5030310	Drive Motor Battery High Voltage Manual	Use Published Labor Time
	Disconnect Lever Replacement (MSD)	Use Published Labor Time
*Add Time	To Fill Cooling System	Use Published Labor Time
**Add Time	SPS Programming Required	Use Published Labor Time
5010240	Drive Motor Generator Power Inverter Module Replacement (HPCM)	Use Published Labor Time
5010230	High Voltage Battery Disconnect Control Module Replacement (HPCM)	Use Published Labor Time
Add Time	Add Time To Fill Cooling System	Use Published Labor Time
Add Time	SPS Programming Required Follow Published Service Information (SI)	Use Published Labor Time

Please follow this diagnostic or repair process thoroughly and complete each step. If the condition exhibited is resolved without completing every step, the remaining steps do not need to be performed.

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GM bulletins are intended for use by professional technicians, NOT a "do-it-yourselfer". They are written to inform these technicians of conditions that may occur on some vehicles, or to provide information that could assist in the proper service of a vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do a job properly and safely. If a condition is described, DO NOT assume that the bulletin applies to your vehicle, or that your vehicle will have that condition. See your GM dealer for information on whether your vehicle may benefit from the information.



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