



GROUP  
ELE

MODEL  
2015MY ~  
Soul EV (PS EV)

NUMBER  
065 (REV 1, 06/24/2015)

DATE  
June 2015

## TECHNICAL SERVICE BULLETIN

**SUBJECT:** 12V AND HIGH-VOLTAGE (HV) BATTERY RECEIVING INSPECTION AND IN STORAGE MAINTENANCE

### \* NOTICE

**This bulletin has been revised to include additional information. New/revised sections of this bulletin are indicated by a black bar in the margin area.**

This bulletin outlines the procedure for charging the 12V and the High-Voltage (HV) batteries on Soul EV (PS EV) vehicles while in dealer inventory. Always ensure the vehicles are regularly checked and maintained per the in-stock vehicle maintenance instruction and record sheet. Keep the sheet up to date by recording all maintenance items as they are performed. Keeping the form (or a copy) in the vehicle will allow for easy spot-checking, as well as demonstrating proper maintenance and record keeping to potential customers. Follow the Service Procedure outlined in this bulletin to keep the batteries properly charged, at all times, to prevent a possible reduction in service life or premature failure of the batteries.



### WARNING

- Caution labels are attached to all the High-Voltage (HV) components.
- High-Voltage (HV) cables and connectors are orange in color.
- Do **NOT** touch any High-Voltage (HV) components, cables or connectors without proper protective gear and training. Failure to observe this warning could result in electrical shock, serious injury, or even death.

File Under: ELECTRICAL

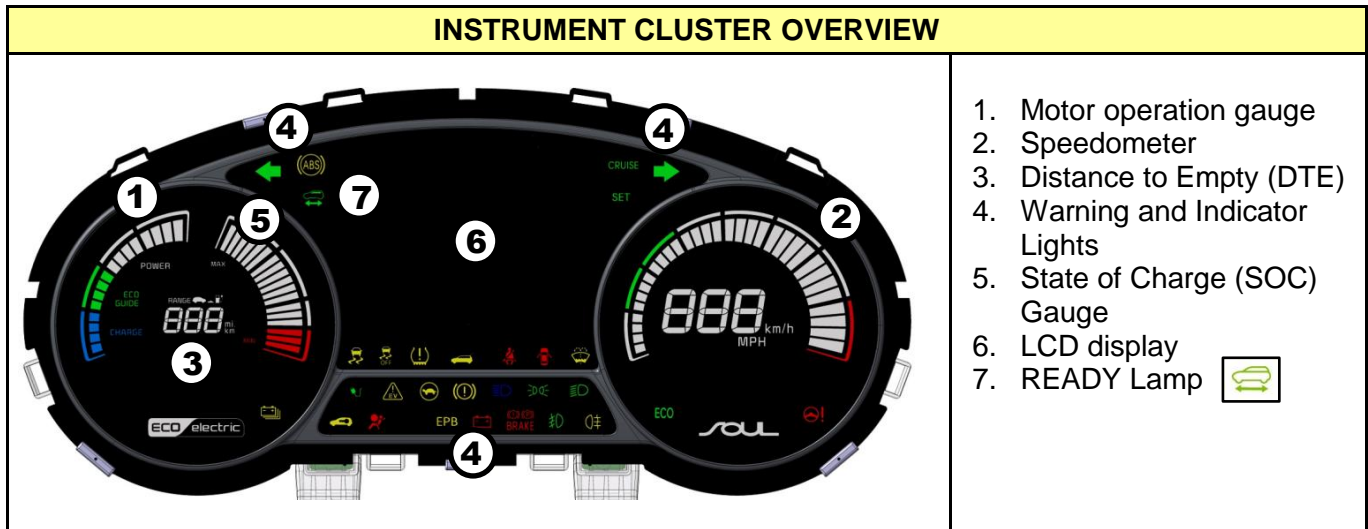
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Circulate To:       General Manager       Service Manager       Parts Manager  
 Service Advisors       Technicians       Body Shop Manager       Fleet Repair

SUBJECT:

# 12V AND HIGH-VOLTAGE (HV) BATTERY RECEIVING INSPECTION AND IN STORAGE MAINTENANCE

## SERVICE PROCEDURE:



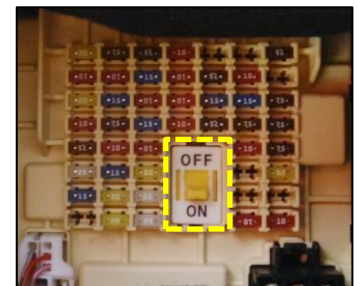
1. Motor operation gauge
2. Speedometer
3. Distance to Empty (DTE)
4. Warning and Indicator Lights
5. State of Charge (SOC) Gauge
6. LCD display
7. READY Lamp 

1. To start the Soul EV, press the Start/Stop Button (SSB) while depressing brake pedal, until the READY lamp (see table above) in the gauge cluster illuminates.
2. Within 48 hours after receiving the vehicle, start the vehicle and leave it in READY mode with the headlamps in the ON position, for at least 20 minutes, to charge the 12V battery.

### \* NOTICE

- This procedure **MUST** be performed on all Soul EV (PS EV) within 48 hours of receiving the vehicle.
- To avoid draining of the 12V battery, make sure the power connector switch is set to the OFF position when storing the vehicle.
- If the 12V battery is discharged to the extent that the car can't be started, open the hood and start the vehicle using jumper cables.

#### Power Connector Switch



3. Every thirty (30) days, perform a "maintenance charge" on the 12V battery by starting the vehicle and leaving it in READY mode, with the headlamps in the ON position, for at least 20 minutes.

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- Check the vehicle State of Charge (SOC) by pressing the **EV** button on the center stack and verify the SOC under the **“Energy Information”** section of the screen.

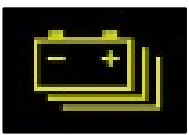

## ★ NOTICE

Refrain from driving the vehicle when any battery warning messages are displayed on the screen and/or cluster.



- If a vehicle is below 30% SOC, displays the **“Low EV Battery Warning”** on the screen, or the SOC warning light is illuminated in the cluster (see table below), charge the HV battery until the SOC reaches approximately 50%. **It is recommended to keep the HV battery between 30% and 70% SOC when the vehicle is in storage, to minimize battery deterioration.**  
**NOTE:** to charge the HV battery, the Start/Stop Button must be set to OFF.



SOC Warning Light	
	
If SOC is 20% or lower, this warning light will be illuminated in the cluster.	If SOC is 8.5% or lower, this warning light will be illuminated in the cluster.

## ★ NOTICE

- When charging on Level 2 (208-240VAC), the HV battery will gain approximately 20% charge per hour. For example, if a vehicle’s SOC is 20% prior to charging, it will require approximately 1 ½ hours of charging to reach 50% SOC.
- Do **NOT** charge the HV battery of in storage vehicles to more than 70% SOC.
- Prior to delivery of the vehicle to the customer, make sure the HV battery is charged to 100% SOC.**