



SIM 61 01 02

2020-09-28

BATTERY MAINTENANCE REQUIREMENTS: BATTERY CARE

This Service Information bulletin (Revision 13) replaces SI M61 01 02 dated July 2019.

What's New (Specific text highlighted):

- Added Battery Log Form for 2020 Calendar Year

MODEL

E-Series	Model Description
All	All (new vehicles in MINI center inventory)

SITUATION

Proper battery maintenance is vital when MINI vehicles are in your dealer inventory. Allowing a vehicle's battery voltage to drop below 12.0 volts (12V) permanently reduces the battery life expectancy and can cause premature failure of the battery.

We provide a flexible battery maintenance system that every MINI dealer can use to meet their particular needs. This bulletin explains the Battery Charging calendar and vehicle charging system categories, and offers a simplified tool and battery voltage checking procedure below.

INFORMATION

Starting on July 1, 2019; the key read with the Battery Care app is no longer needed prior to delivery.

No vehicle should be delivered to the customer with a red Check Control Message (CCM) 460 "Replace battery" displayed.

For more information on the updated QCI payment and the related claim submission information, refer to [SI M01 01 08](#).

PROCEDURE - 12V BATTERY SYSTEMS

This procedure details the required battery care at the following points while the vehicle is at the dealership:

- During receiving inspection at the dealership
- Assignment of vehicle usage (3 categories)
 - 1) Put on the lot (new vehicle display or supplemental inventory)
 - 2) Battery is disconnected, vehicle is in storage
 - 3) Vehicle is put in display stock (showroom or show display)
- Vehicle battery is recharged
- Vehicle is delivered to customer

Delivery of vehicle to dealer:

NOTE: The vehicle arrives marked with a **color-coded round sticker** on the windshield. Do not remove this sticker under any circumstance until the vehicle is retailed.

When a new vehicle arrives at the dealership, do the following:

- Remove the BATTERY LOG FORM (see attachment) from the glove compartment and complete **section "A."**
- Check if the car is due for charging according to **section "B"** in the charging calendar (is car assigned to the color of the current week?) on the BATTERY LOG FORM.

If YES, please check the State of Charge (SoC). If it is below 71% (12.5 V), please recharge the car before it goes into storage. Go to step c.

If NO, go to step c.

c. Check the instrument cluster for battery-related check control messages to determine the condition of the 12-volt battery. Refer to the chart below for all applicable check control messages.

d. Open the vehicle and make sure it is in transport mode. Press the Start/Stop button and wait until all check control messages are displayed. Refer to the chart below for all applicable check control messages.

Vehicle Check Control Displays and Actions:

All except F56 (Cooper/Cooper S) vehicles:



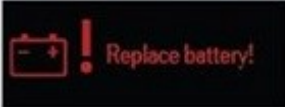
1. Press the button on the end of the lever several times until the menu item "SET/INFO" is visible
2. Press the button again and hold until the sub menu is displayed
3. Press the button on the end of the lever several times until the menu item "CHECK-INFO" is visible
4. Press the button again and hold until the check result is displayed
5. In case of existing check control messages, toggle through and watch for the battery symbol

Battery OK	No battery symbol!
Recharge or Replace	

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For F56 (Cooper/Cooper S) and newer vehicles:

F-Series:

State of charge	Action	
> 60%	None	
$30 < x < 60\%$	Recharge	
< 30%	Replace battery	

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If an indicator shows that the battery is less than 30% SoC (12 V), perform the following steps:

1. Enter a comment with the VIN in the Bill of Lading (Delivery Receipt).
2. Perform energy diagnosis to check if there is a vehicle malfunction.
3. Submit a warranty claim with the comment: "Battery was delivered heavily discharged."

NOTE: Using a multimeter upon delivery is not recommended, because an accurate voltage value is only guaranteed after the 12 V battery has been sitting for at least 4 hours.

Vehicle usage is assigned:

The BatteryCare maintenance tracking system provides for 3 distinct categories of vehicles while in dealer stock. Each category has different recommended actions:

1. Put on dealer lot

- The vehicle may be in storage (back lot) or in a new vehicle display (not in the showroom)
- The vehicle may or may not be in Transport Mode
- A four-week charging cycle and calendar have been recommended for this category of vehicle

a) The vehicle arrives marked with a color-coded round sticker on the windshield. Do not remove this sticker under any circumstance until the vehicle is retailed. The respective color dot on the windshield (four options) indicates when the vehicle's battery voltage must be checked in accordance with the section "B" of the BATTERY LOG FORM on a four-week cycle.

b) Recharge whenever the battery voltage is less than 12.5 V or 71% SoC.

MINI recommends using the LED 12 V Charging Indicator to determine if a certain vehicle has to be recharged. (For testing and charging equipment, refer to [SI M04 08 09](#).)

This LED indicator has to be connected to the vehicle permanently and eliminates the need to unlock the vehicle for measuring the SoC of the 12 V battery. The colors below apply to the charging calendar's SoC thresholds, and are as follows:

- Green: Voltage is > 12.5 V (71% SOC)
- Yellow: Voltage is between 12.0 V and 12.5 V => Recharge
- Red: Voltage < 12.0 V (30% SOC) => Replace battery on new cars

c) Every time a battery is checked, record the voltage in section "B" of the BATTERY LOG FORM.

IMPORTANT: The LED indicator has to be connected to the car for at least 4 hours in order for it to indicate the correct battery condition!

2. The vehicle goes into the showroom, or a similar display area

- The electrical system is "Customer ready"
- The vehicle has been taken out of Transport Mode using the MINI Diagnosis System
- The color dot system is not applicable while assigned to this usage

When in the showroom display, energy consumption is frequent and unpredictable because of the showroom traffic. A four-week charging cycle will not suffice, due to the increased current draw imposed on the battery. This is because of frequent usage of the vehicle's electrical components (demonstrations, product familiarization, etc.).

a) To ensure the battery charge is maintained, connect the battery via the underhood charging terminals to a suitable power supply ([SI M04 08 09](#)).

b) If the showroom vehicle battery has to be disconnected due to state regulations, check the battery voltage on a regular basis to ensure the state of charge is maintained above 12.5V. Record when the battery is recharged in **section "C"** of the BATTERY LOG FORM.

Note: For those MINI dealers which have established their own working battery maintenance procedure which fulfills MINI guidelines, Section C can be used to track the charging of those vehicles.

3. The battery draw has been minimized

- The vehicle battery has been disconnected.

With the battery draw minimized, a 12-week charging cycle can be followed. Use **section "D"** of the BATTERY LOG FORM to document when the charging has been performed.

The columns on the BATTERY LOG FORM are identified by the colors white, red and green of the 12-week charging calendar, designating the months when the vehicles are to be charged. The windshield labels can also be used to track these vehicles, with the exception of the 4th color, yellow. Therefore, vehicles received with a yellow label will need to be reassigned another color.

The 12-week charging cycle requires the battery to be recharged at every check.

Since MINI uses only maintenance-free or AGM (absorbent glass mat) batteries, **DO NOT ADD DISTILLED WATER!**

If, at any time, the battery open circuit voltage should drop below 12 V, or a battery replacement is indicated during the CBS handover inspection, perform Energy Diagnosis (refer to [SI M61 06 07](#)) to determine the cause. Any necessary repairs should be carried out and the battery **MUST BE REPLACED**. The replacement battery must be registered using the service function in the diagnosis equipment.

Dispose of all batteries properly, observing legal regulations.

Charging Parameters:

Battery charging must be performed using an approved battery charger (recommended charging voltage 14.8 V). Refer to [SI M04 08 09](#) for recommended chargers.

For an optimized charging procedure, the ambient temperature should be **between 60°F and 75°F**. Under these conditions, the battery can be considered fully charged when the charging current **has fallen below 2.5 Amps**.

Charging below 60°F should be avoided if possible, since the capacity of the battery to take up current is reduced and the charging time is extended considerably. However, if provisional charging **below 60°F is performed, the charging voltage must be set to 14.8 V**. Charging shall be discontinued no earlier than when the **charging current falls below 1.5 Amps**.

New Vehicle Delivery

The CBS Handover Inspection must be performed as the last process step, immediately before delivery to the customer! Refer to the Service Information entitled “New Vehicle Preparation and Maintenance Requirements” for the vehicle model concerned.

Upon the sale of a vehicle, its BATTERY LOG FORM should be removed from the BATTERY CHARGE LOG (binder) and filed in the vehicle file to be available for future reference.

Make sure that the car will be handed over with a minimum state of charge of 12.5 V or 71% SoC. To ensure that the battery remains fully charged, start the engine before demonstrating the operation of components to the customer at the time of delivery.

GENERAL INFORMATION

Note that the procedures outlined above are meant to be guidelines to assist MINI dealers in assuring a sufficient state of charge of vehicle batteries at all times. Following these procedures, however, will not **guarantee** a sufficient state of charge on all batteries. For example, there may be exceptional cases of excessive current draw through frequent movement of back lot vehicles which may call for more recharging than otherwise necessary.

The above guidelines for proper battery maintenance are meant to provide maximum flexibility for every MINI dealer. Regional MINI personnel will be happy to assist with setting up an effective charging and monitoring program.

PARTS INFORMATION

Refer to the attachment to this bulletin for the procedure flowchart.

Part Number	Description	Quantity
01 00 2 411 748	Battery Charge Label - White	1 = 50 labels
01 00 2 411 749	Battery Charge Label - Red	1 = 50 labels
01 00 2 411 750	Battery Charge Label - Green	1 = 50 labels
01 00 2 411 751	Battery Charge Label - Yellow	1 = 50 labels

The pre-printed version of the Battery Log form will no longer be provided since the demand was very low.

WARRANTY INFORMATION

Since the BatteryCare key read procedure prior to a vehicle's first delivery is no longer necessary, MINI is currently in the process of re-transitioning the reimbursement of the battery maintenance step, one (1) FRU, back to the applicable QC1 labor operations.

Please refer to the updated version of SI M01 01 08 for the interim claim submission procedure for QC1s performed on or after July 1, 2019.

Supporting Materials

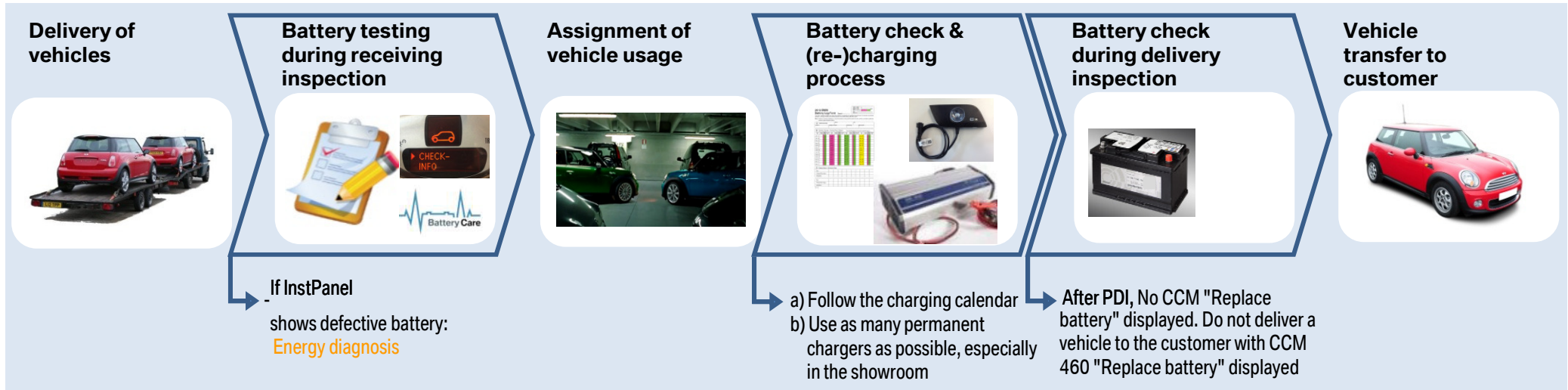
[picture_as_pdf M610102 Process Flyer.pdf](#)

[picture_as_pdf M610102 2021 Log Form.pdf](#)

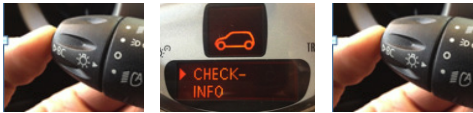
[picture_as_pdf M610102 2020 Log Form.pdf](#)

[picture_as_pdf M610102 Flowchart.pdf](#)

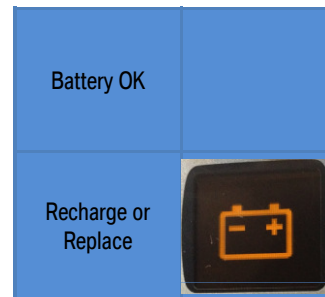
BATTERY CARE AND MAINTENANCE



1 VEHICLE CHECK INSTRUMENT PANEL



1. Press button on the end of the lever several times until the menu item "CHECK-INFO" is visible
2. Press the button again and hold until the check result is displayed
3. In case of existing check control messages, toggle through and watch for the battery symbol



Stock# _____

VDC USE: Chassis #: _____
 Battery (12V)/Kombi _____ Volts/SOC%
 Battery (Hybrid) _____ SOC%
 Date _____/_____/_____
 Inspector _____

Note: Failure to maintain batteries as recommended and documented with this form will be considered sufficient cause to reject warranty claims.

 Vehicle Receipt	Model	Chassis#	
	Center #	Voltage as received	Inspected by

Vehicle In Storage - Checked Every 4 Weeks												Color indicates battery is to be checked during the week of . . .				
Week Of	Voltage (12V)/ LED	Voltage Hybrid	Charged By	Week Of	Voltage (12V)/ LED	Voltage Hybrid	Charged By	Week Of	Voltage (12V)/ LED	Voltage Hybrid	Charged By	Week Of	Voltage (12V)/ LED	Voltage Hybrid	Charged By	
Dec. 23				Dec. 30				Jan. 6				Jan. 13				
Jan. 20				Jan. 27				Feb. 3				Feb. 10				
Feb. 17				Feb. 24				Mar. 2				Mar. 9				
Mar. 16				Mar. 23				Mar. 30				April 6				
April 13				April 20				April 27				May 4				
May 11				May 18				May 25				June 1				
June 8				June 15				June 22				June 29				
July 6				July 13				July 20				July 27				
Aug. 3				Aug. 10				Aug. 17				Aug. 24				
Aug. 31				Sept. 7				Sept. 14				Sept. 21				
Sept. 28				Oct. 5				Oct. 12				Oct. 19				
Oct. 26				Nov. 2				Nov. 9				Nov. 16				
Nov. 23				Nov. 30				Dec. 7				Dec. 14				

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Battery Log Form

This form should be filled out when the vehicle is received and updated according to the proper procedure (display vs. storage vehicle). It should be placed in the vehicle history file when sold.

Note: Failure to maintain batteries as recommended and documented with this form will be considered sufficient cause to reject warranty claims.

 Vehicle Receipt		Model	VIN	
Center #	Voltage as received		Inspected by	Date received

D Vehicle In Storage - Charged Every 3 Months					
January	Date		February	Date	
Voltage Before Charge	Charged By		Voltage Before Charge	Charged By	
April	Date		May	Date	
Voltage Before Charge	Charged By		Voltage Before Charge	Charged By	
July	Date		August	Date	
Voltage Before Charge	Charged By		Voltage Before Charge	Charged By	
October	Date		November	Date	
Voltage Before Charge	Charged By		Voltage Before Charge	Charged By	
			March	Date	
			Voltage Before Charge	Charged By	
			June	Date	
			Voltage Before Charge	Charged By	
			September	Date	
			Voltage Before Charge	Charged By	
			December	Date	
			Voltage Before Charge	Charged By	

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Stock# _____

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 Battery (12V)/Kombi _____ Volts/SOC%
 Battery (Hybrid) _____ SOC%
 Date _____/_____/_____
 Inspector _____

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 Vehicle Receipt	Model		Chassis#	
	Center #	Voltage as received	Inspected by	Date received

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Week Of	Voltage (12V)/ LED	Voltage Hybrid	Charged By	Week Of	Voltage (12V)/ LED	Voltage Hybrid	Charged By	Week Of	Voltage (12V)/ LED	Voltage Hybrid	Charged By	Week Of	Voltage (12V)/ LED	Voltage Hybrid	Charged By	
Dec. 21				Dec. 28				Jan. 4				Jan. 11				
Jan. 18				Jan. 25				Feb. 1				Feb. 8				
Feb. 15				Feb. 22				Mar. 1				Mar. 8				
Mar. 15				Mar. 22				Mar. 29				April 5				
April 12				April 19				April 26				May 3				
May 10				May 17				May 24				May 31				
June 7				June 14				June 21				June 28				
July 5				July 12				July 19				July 26				
Aug. 2				Aug. 9				Aug. 16				Aug. 23				
Aug. 30				Sept. 6				Sept. 13				Sept. 20				
Sept. 27				Oct. 4				Oct. 11				Oct. 18				
Oct. 25				Nov. 1				Nov. 8				Nov. 15				
Nov. 22				Nov. 29				Dec. 6				Dec. 13				

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April	Date		May	Date	
Voltage Before Charge	Charged By		Voltage Before Charge	Charged By	
July	Date		August	Date	
Voltage Before Charge	Charged By		Voltage Before Charge	Charged By	
October	Date		November	Date	
Voltage Before Charge	Charged By		Voltage Before Charge	Charged By	
			March	Date	
			Voltage Before Charge	Charged By	
			June	Date	
			Voltage Before Charge	Charged By	
			September	Date	
			Voltage Before Charge	Charged By	
			December	Date	
			Voltage Before Charge	Charged By	

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