SI M61 01 02
General Electrical Systems

September 2015
Technical Service

This Service Information bulletin supersedes SI M61 01 02 **dated April 2015.**

NEW designates changes to this revision

SUBJECT
Battery Maintenance Requirements: Battery Care

MODEL
All (new vehicles in MINI dealer inventory)

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

We provide a flexible battery maintenance system every MINI dealer can use in accordance with their particular needs. This bulletin explains the 2014 Battery Charging calendar, charging systems and a simplified tool and battery voltage checking procedure below.

INFORMATION
To transition the reimbursement of the battery maintenance step from the QCI to the new Battery Care Program described in the procedure section, a reduction in the QCI time allowances was necessary.

For more information on the updated QCI payment and the related claim submission information, please refer to SI M01 01 08.

Your dealer will receive a separate payment for properly maintaining batteries on in-stock vehicles through miscellaneous billing.

PROCEDURE - 12V BATTERY SYSTEMS
New Vehicles Arriving at Your Dealer

Upon receipt of a new vehicle, remove the battery log form (see attachment) from the glove compartment and complete section "A."

IMPORTANT: Check also if the car is due for charging according to the charging calendar (car is assigned to the color of the current week!). 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.

Definitely check the instrument cluster for battery-related check control messages to determine the condition of the 12-volt battery.

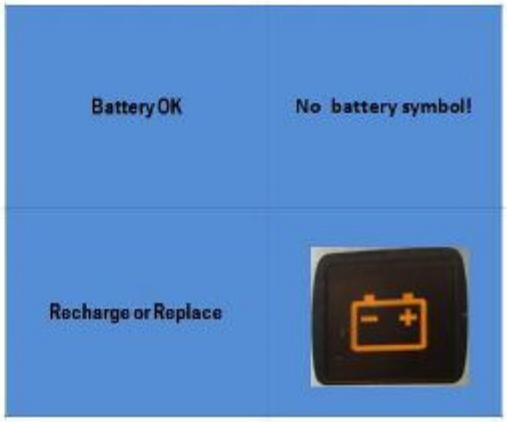
Open the vehicle and make sure it is in transport mode. Press the Start/Stop button and wait until all check control messages are displayed. Refer to the chart below for all applicable check control

messages.

Vehicle Check Control Displays and Actions

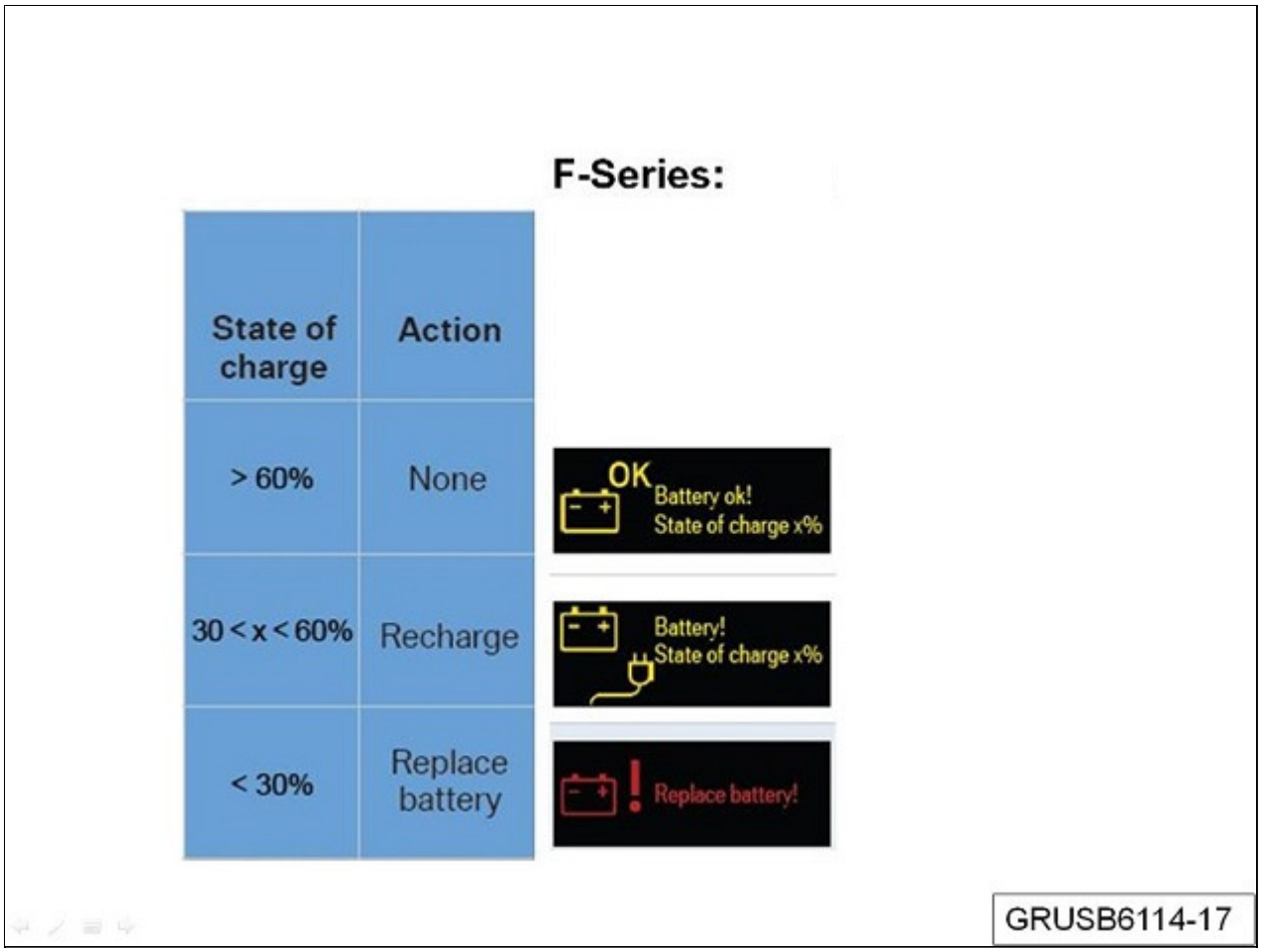


1. Press the button on the end of the lever several times until the menu item "SET/INFO" is visible
2. Press the button again and hold until the sub menu is displayed
3. Press the button on the end of the lever several times until the menu item "CHECK-INFO" is visible
4. Press the button again and hold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



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For F56 (Cooper/Cooper S) vehicles:



If an indicator shows that the battery is less than 30% SoC (12V), 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.”

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

The maintenance tracking system provides for 3 distinct options:

1. **The vehicle goes into 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 established for these cases.

   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 (four options) indicates that the vehicle’s battery voltage must be checked in accordance with

the **new calendar on a four-week cycle.**

Recharge whenever the battery voltage is less than 12.5V or 71% SoC. MINI recommends using the LED 12V 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 12V battery. The colors below apply to the charging calendar's SoC thresholds, and are as follows:

Green: Voltage is > 12.5V (71% SOC)

Yellow: Voltage is between 12.0V and 12.5V => Recharge

Red: Voltage < 12.0V (30% SOC) => Replace battery on new cars

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," and

   • The vehicle has been taken out of Transport Mode using the MINI Diagnosis System.

   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.).

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

   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 1: 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 for storage purposes**

   • 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 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 batteries, DO NOT ADD DISTILLED WATER!

If, at any time, the battery open circuit voltage should drop below 12.0V, 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 Procedure:

Battery charging must be performed using an approved battery charger (recommended charging voltage 14.8V). 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.**

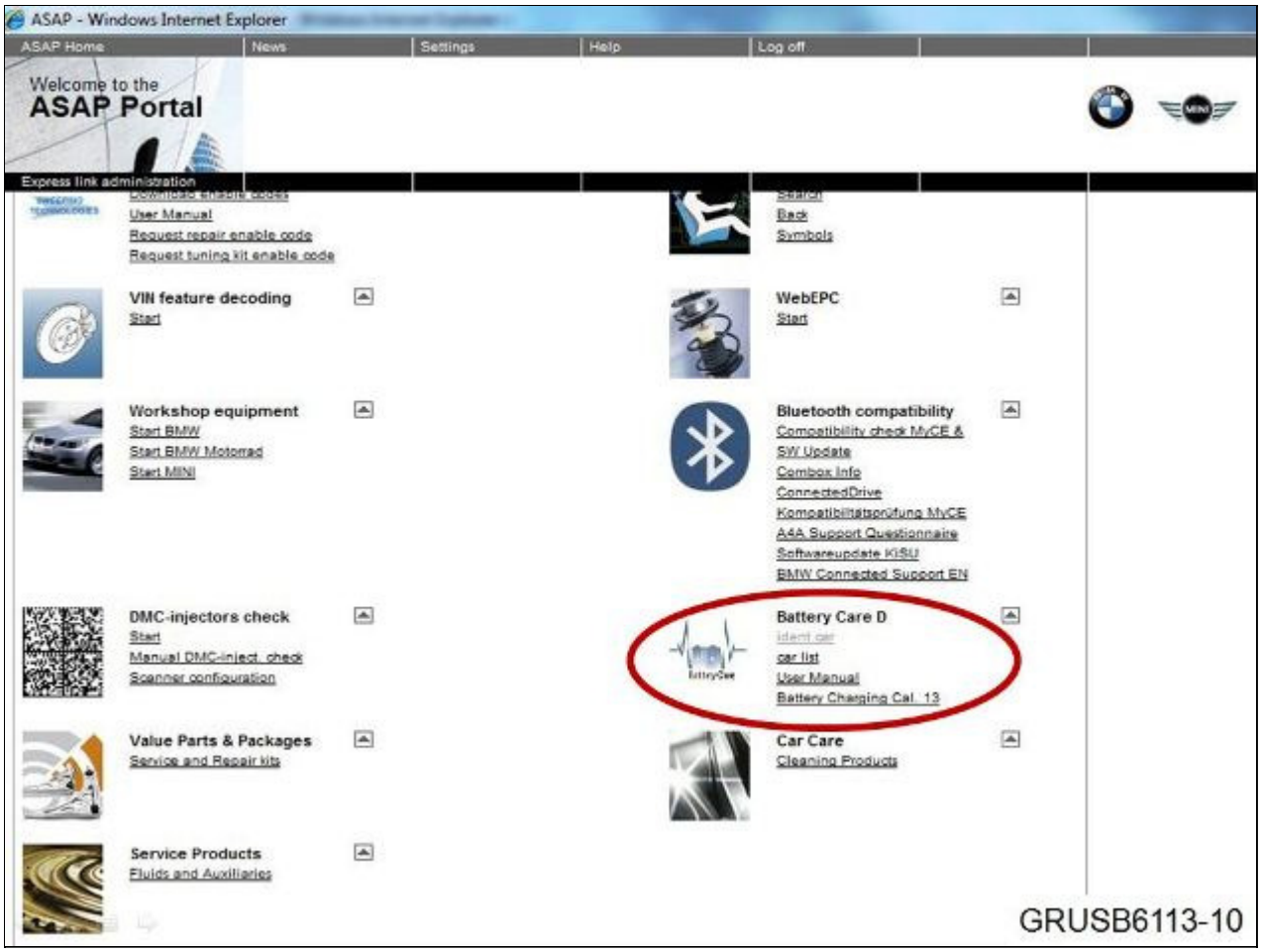
Charging below 60°F should be avoided if possible, since the capacity of the battery to take up current is reduced and the charging time is extended considerably. However, if provisional charging **below 60°F is performed, the charging voltage must be set to 14.8V.** Charging shall be discontinued no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

IMPORTANT: In addition, a final check with "Battery Care D" has to be performed.

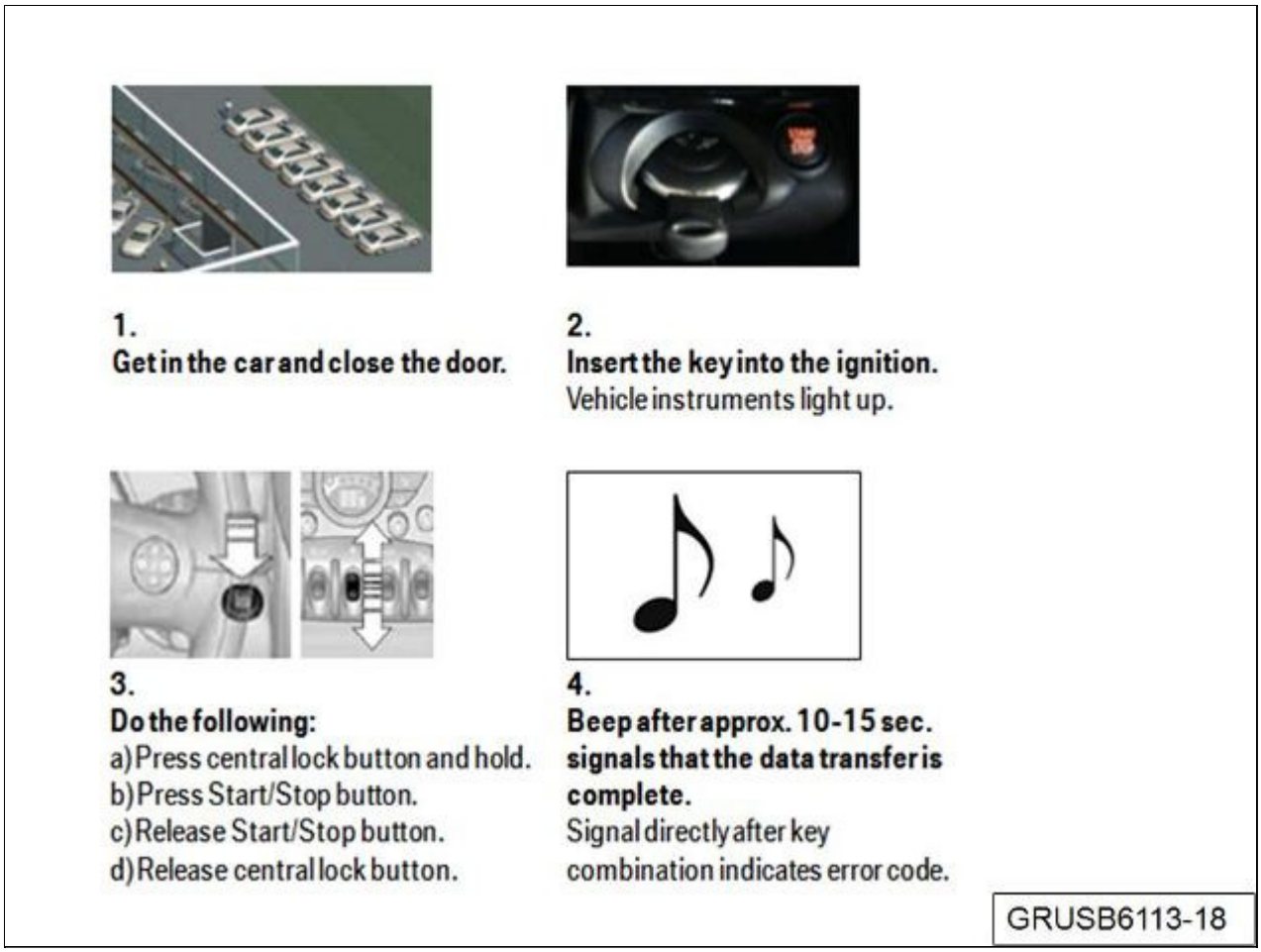
"Battery Care D" is a tool available in the ASAP Portal: Dealerspeed>ASAP Portal>Service/Technic>"Battery Care D"



Based on key data, the tool checks if the battery was ever heavily discharged. **Also refer to the Warranty Information section below for reimbursement information.**

The system requires internet access and a MINI Key Reader (no workshop server connection is needed). Perform this check using the steps below:

1. The vehicle key has to be updated as follows:



IMPORTANT: For the key update on F56 (Cooper, Cooper S) vehicles, please refer to SI M61 02 14.

2. Let the Key Reader read and store the key data.
3. Open **"ident car"** and press the "Take over key data" button.
4. When the application shows **"Battery OK"** or **"Charging battery"** in the "Description" field, the battery was never heavily discharged (SoC < 12V) in the past.
5. Double-check if the right car is displayed **and press "Save."** If the Save button is not displayed, the key data was either not updated successfully or a key with old data was provided.
6. Finally, press the "Log off vehicle" button when the car leaves the inventory upon customer delivery.

If the battery application shows "Replace battery," the battery was heavily discharged in the past and must be replaced. After that, new key data has to be recorded in Battery Care D. The status has to be switched to "Battery OK" again.

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 12.5V 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.

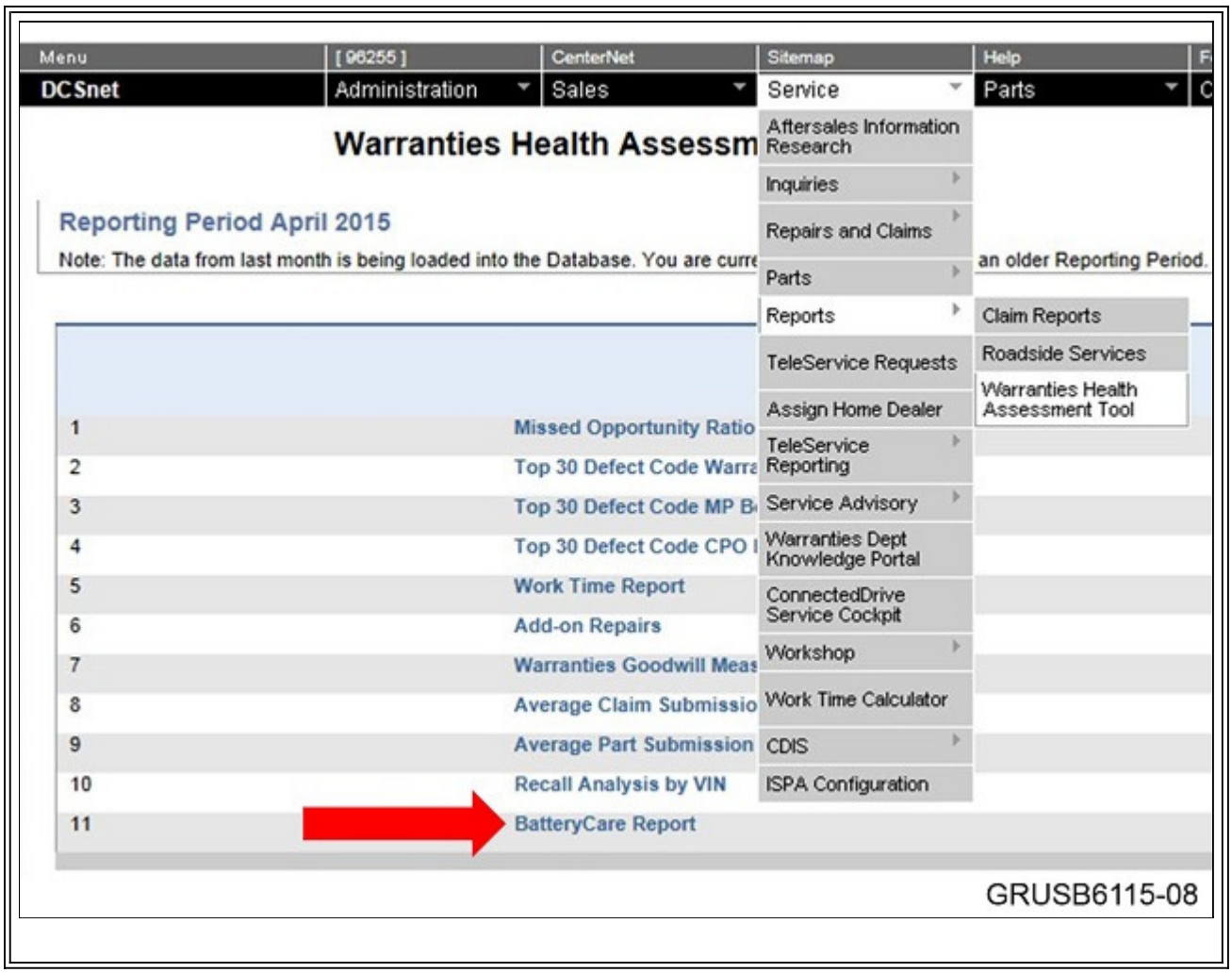
NEW Process Monitoring

There is a convenient BatteryCare Report contained within the WHAT (Warranty Health Assessment Tool) of the DCSNet within Dealerspeed. This report shows all vehicles according to their in-Service date, combined with the last recorded status in the BatteryCare application. Regular use of this report will ensure that final battery checks are performed before leaving the dealership.

This report is now refreshed every night to reflect recent deliveries as well as those of the previous 3 months.

Please refer to the attachment to get more information on how to use the report.

WHAT can be accessed via DCSNet in Dealerspeed as shown:



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: there may be exceptional cases of excessive current draw through very frequent movement of back lot vehicles, for example, which may call for more frequent 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
01 00 2 411 752	2015 BMW Group Battery Log Form	1
01 00 2 411 753	Battery Charge Log Binder (Complete)	1

These items are available online at MINI TIS, under Materials Ordering. Refer to bulletin SI M10 01 02 for instructions on how to place an order.

WARRANTY INFORMATION

When a new vehicle is reported “sold” with an in-service date, Warranties will review the corresponding battery maintenance information from the Battery Care application and the required key data.

- The required and qualifying key read data must be obtained from the vehicle during **the period of 10 days before and 20 days after the in-service date (-10/+20)** that is reported in DCSnet (RDR).

Under this program, after the first delivery, dealers will receive two (2) FRU for properly maintaining a new vehicle’s 12V battery while in inventory.

- Dealers will receive credit for one (1) FRU reduction, originally included in the QCI labor operation, and one (1) bonus FRU.

Battery Care payments for qualifying vehicles will be issued quarterly on your parts billing statement through miscellaneous billing.

Vehicle battery failures due to improper or lack of maintenance are not covered and do not qualify.

Dealer-Traded Vehicles

It is your responsibility to evaluate the battery's condition on vehicles traded from another center upon arrival. Any issues relating to improperly maintained batteries must be addressed by the centers involved.

Demo Vehicles

Dealer demo vehicles are required to participate in the new Battery Care Program, including "Specialty 8."

ATTACHMENTS

View PDF attachment **M610102_BatteryCare_Report_in_WHAT**.

View PDF attachment **M610102_Flowchart**.

View PDF attachment **M610102_Log_Form**.

View PDF attachment **M610102_Process_Flyer**.

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