

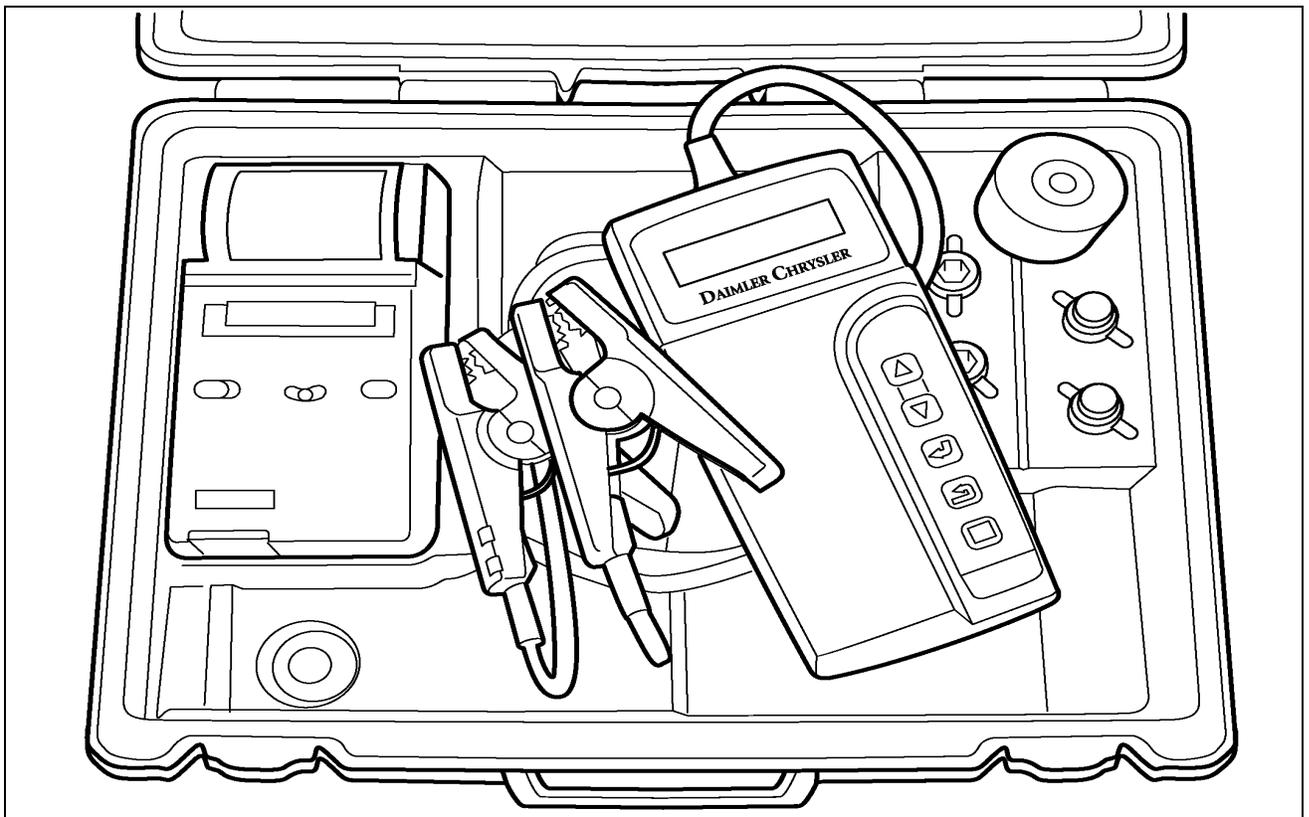


Date: May 2003  
Order No.: S-B-58.00/124A  
Supersedes: S-B-58.00/124  
Group: 58

**Revised:** *Availability of repair kits for positive and negative battery terminal tester clamps and post-warranty repair information for battery tester*

**SUBJECT:** **NEW BATTERY TEST PROCEDURE, USING MIDTRONICS MCR 717 BATTERY TESTER (MB Special Tool Number: 900 589 09 21 00)**

A new battery test procedure accompanies the introduction of the Midtronics MCR 717 Battery Tester (Figure 1). The test procedure applies to lead-acid and AGM (Fleece) batteries. Consequently, battery acid specific gravity tests and load tests are no longer necessary.



**Figure 1**

P54.10-2166-06

This bulletin has been created and maintained in accordance with MBUSA-SLP 5.1, Document and Data Control, and MBUSA-SLP 16.1, Control of Quality Records.

## Midtronics MCR 717 Battery Tester Components

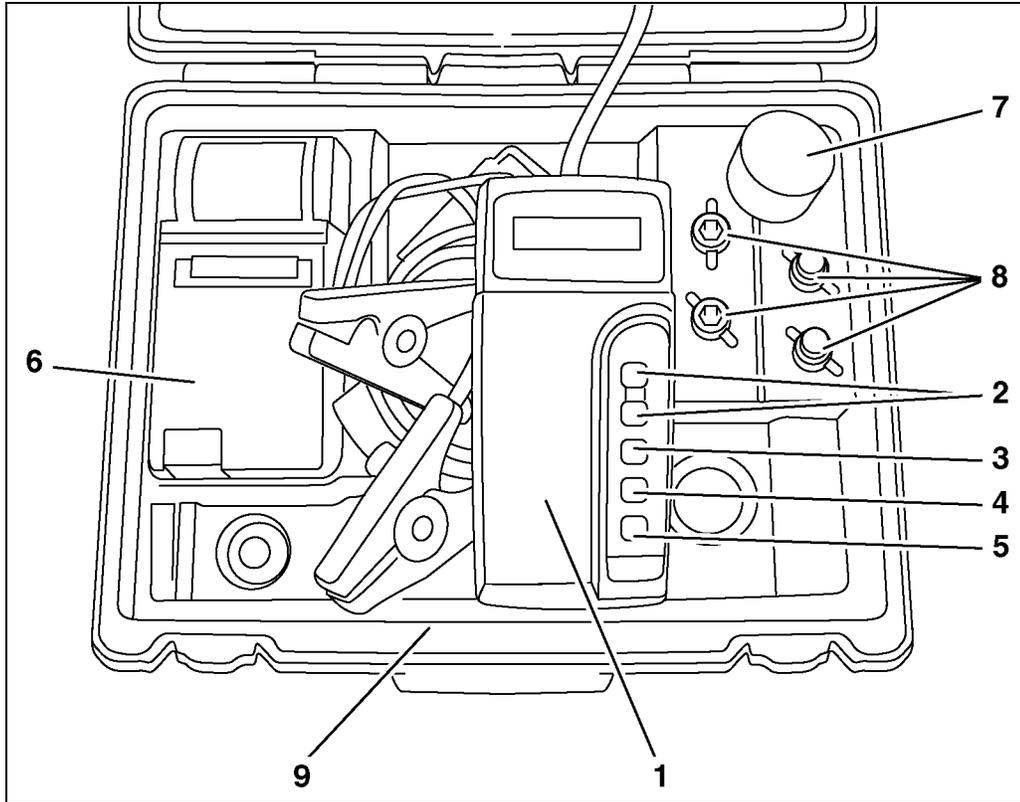


Figure 2

P54.10-2160-11

### Midtronics MCR 717 Battery Tester Components (1-9)

#### Test Unit:

- 1—Portable Tester (With test leads and battery terminal clamps)
- 2—Arrow Keys (Scroll through Menu choices)
- 3—Return Arrow Key (“ENTER” key to make selections, confirm or continue)
- 4—Back Arrow Key (Move back to previous step—backwards through menu)
- 5—Menu Key (Select available optional tests)

#### Other Components:

- 6—HP Printer (Print Test Code at end of test)
- 7—Printer Paper
- 8—Adapters (Not supplied with tester)
- 9—Carry Case (Supplied with component 1 and collective components 5-7)

 **NOTICE**

**DO NOT** remove the battery from the vehicle for testing purposes. The tester must always be connected directly to the battery terminals, never to the jumper cable connection points.

1. Connect the tester to the battery terminals.

**Note:** Jiggle the tester clamps to ensure good battery terminal contact. The tester will indicate poor battery contact via an LCD “Check Connection” error message.

2. Follow the LCD menu selection using the arrow keys (Figure 3).

**Note:** Select “in vehicle” if the vehicle battery leads are still connected to the battery. Select “not in vehicle” if the battery is removed from the vehicle (Figure 3).

3. Confirm the selection using the green arrow key.
4. Select battery capacity **<115 Ah** (passenger cars, light trucks) using the arrow keys (Figure 4).
5. Confirm the selection using the green arrow key.

6. Select **DIN Standard** in the Test Standard menu, using the arrow keys (Figure 5).
7. Confirm the selection using the green arrow key.

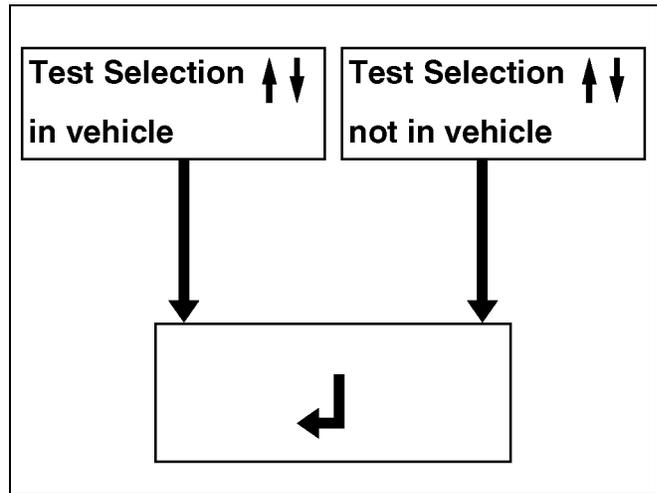


Figure 3

P54.10-2167-01

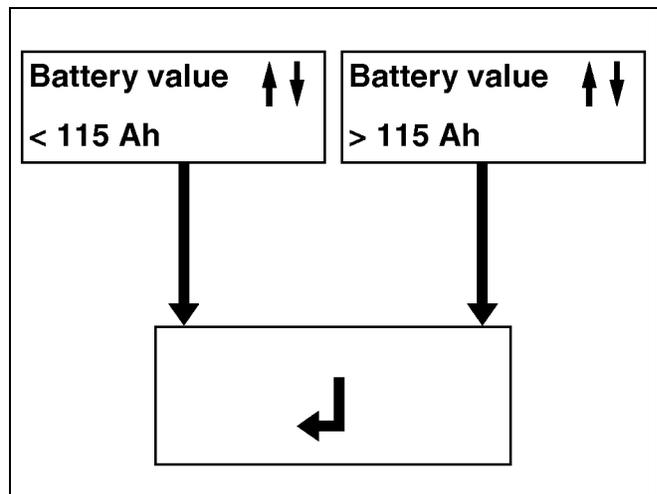


Figure 4

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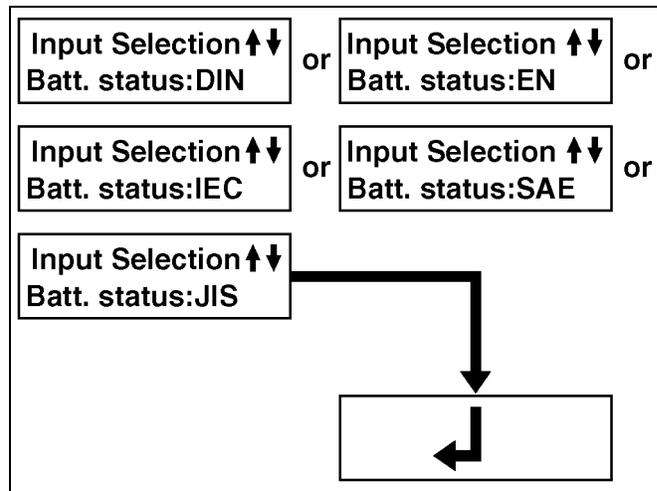


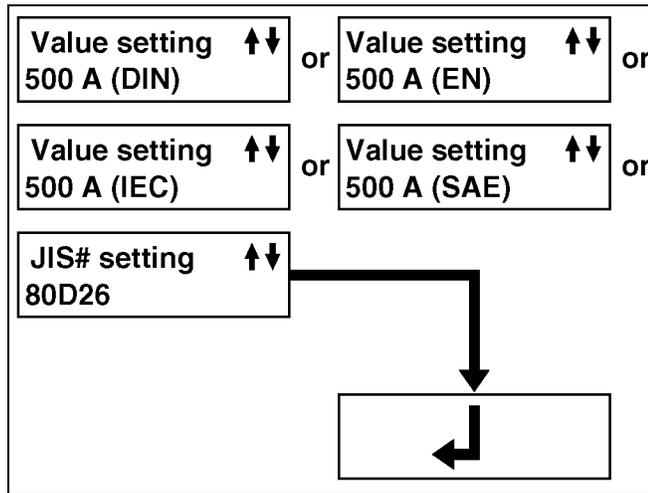
Figure 5

P54.10-2169-01

8. Check the battery amperage (CCA) noted on the battery label and enter the amperage rating (DIN) using the arrows (Figure 6).
9. Confirm the selection using the green arrow key.

**Note:** The battery test starts after pressing the green arrow key. The test results will appear on the LCD screen after approximately 3 seconds. The Test Code will subsequently appear.

10. Print out the Test Code by powering up the HP printer and pointing the battery tester at the infrared window on the lower edge of the printer, near the On/Off switch. A reflective tape allows printing at right angles when the printer is in the carrying case.



**Figure 6**

P54.10-2171-01

### Battery Test Result Notes

- ❑ Battery OK
  - Meets specifications
  - No further measures or testing necessary
- ❑ Battery OK and Recharge
  - Meets specifications, but requires recharging
  - Recharge the battery
  - Restart using the battery tester after the battery is fully charged
  - Battery replacement is not under warranty if the battery tested OK
- ❑ Charge and Restart
  - Battery test cannot be performed if this message appears on the tester LCD screen
  - Fully recharge the battery and perform the test again
  - Battery is not under warranty if subsequent testing results indicate the battery is good

**Note:** Battery replacement is under warranty if indicated on the tester LCD screen. In some cases, the tester might display the message: "Voltage too high, please condition battery." In such a case, apply an external load by switching on the headlamps, for example, for approximately 1 minute. Remove the load by switching off the headlamps and allow the battery to regenerate for approximately 5 minutes. Perform the battery test again, using the battery tester.

<b>Description</b>	<b>Tool Number</b>	<b>Retailer Net (\$)</b>
Battery Tester Kit (complete) <sup>1)</sup>	900 589 09 21 00	\$1,030.00

<sup>1)</sup>One will automatically be shipped to each dealer as part of the MB Special Tool program. Additional units can be ordered through the Parts Department. Post-warranty for this repair is available via Midtronics Customer Service department toll free at: 800-776-1995, option "3."

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#### **Available Spare Components**

Tester	900 589 09 21 01	\$920.00
Printer (HP)	900 589 09 21 02	\$204.00
Paper Roll for HP Printer	900 589 09 21 03	\$9.00
Operators Manual	900 589 09 21 04	\$13.00
Carrying Case	900 589 09 21 05	\$50.50

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#### **Available Repair Kits**

Negative Clamp Repair Kit	900 589 09 21 06	\$28.00
Positive Clamp Repair Kit	900 589 09 21 07	\$28.00

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#### **Warranty Information**

Test values from the battery test must be entered in the text block of the warranty claim form, and the Test Code must be attached to the repair order.

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