

RENAULT

Technical Note 6002A

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Checking the batteries before vehicle delivery for After Sales and Second-hand vehicle preparation

77 11 327 942

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Edition Anglaise

"The repair procedures given by the Manufacturer in this document are based on the technical specifications current when it was prepared.

The procedures may be modified as a result of changes introduced by the manufacturer in the production of the various component units and accessories from which his vehicles are constructed."

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Contents

	Page
80A BATTERY	
Battery: General information	80A-1
Battery: Test	80A-2
Battery: Result	80A-6
Battery: Advice	80A-7

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General information

This Technical Note deals with the battery checking procedure, and the equipment to be used for preparing a used vehicle or for After-Sales.

The battery must be kept charged throughout the used vehicle's storage period, with regular checks following the procedure described in this note.

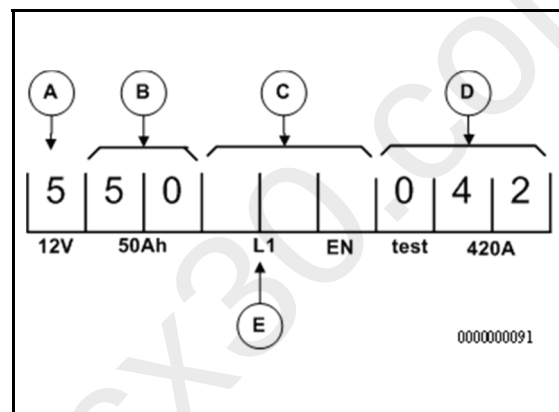
To ensure that the used vehicle is delivered with a sound battery, the battery must be checked as late as possible (as close as possible to the delivery of the used vehicle to the customer), allowing for any time needed for recharging or replacing the battery.

This should enable you to deal with the various cases of discharge encountered between preparation and delivery: display, storage, etc.

If the battery is equipped with a warning light (1), this is reserved for preparing a new vehicle and must not be used for After-Sales

Description of the battery label:

If the battery is replaced, refer to Dialogys or to the description on the label below to select the spare part.



A- + 12 V code.

B- Electrical capacity.

C- Location of terminals, size of tray, quality, performance level (if shown).

D- Maximum current when starting (e.g. 420 A, is written 042).

E- Size code (LB = low height).

The manufacture date of the battery is engraved on the cover in DDMMYY format.

Special notes for VRLA* batteries:

VRLA* batteries can be identified by a label affixed on the top of the battery, where the name VRLA is given.

VRLA* batteries do not have a visual indicator.

*VRLA: Valve Regulated Liquid Acid

Checking around the battery:

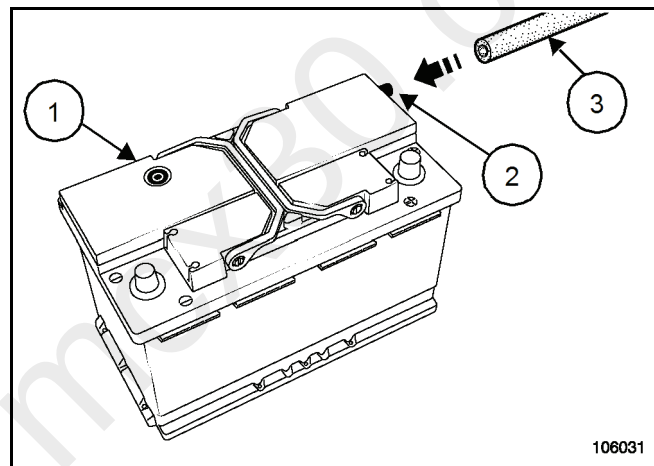
- Check the tightness of the bracket mounting bolt: it must be attached with the correct tightening torque (see **the MR for the relevant vehicle, 80A, Battery, Battery: Removal - Refitting**).
Excessive tightening is not beneficial and can be dangerous, as it can damage, or even break, the battery.
Conversely, insufficient tightening allows too much play, and there may be wear caused by battery movement and breakage caused by impact.
- Check the tightness of the battery terminal mountings: check that the battery terminals are correctly inserted and secure.
The terminals must be attached with the correct tightening torque (see **the MR for the relevant vehicle, 80A, Battery, Battery: Removal - Refitting**).
- Check the tightness of the battery terminal stud nuts: check that the battery terminal stud nuts are correctly inserted and secure. The nuts must be attached with the correct tightening torque (see **the MR for the relevant vehicle, 80A, Battery, Battery: Removal - Refitting**).

Checking the battery

Make sure there are no cracks or breakages, traces of acid, or creepage (sulphation) on the terminals. If any of the above are present, replace the battery and clean the surrounding area.

Check that the degassing pipe (depending on the version) is properly connected to the battery vent.

Check that the degassing pipe (3) is correctly positioned.



- 1- Visual indicator
- 2- Degassing vent
- 3- Degassing pipe

WARNING

All these vehicles are equipped with a low water consumption battery.
Opening the battery and topping up the electrolyte level are prohibited.

BATTERY

Battery: Test

80A

Test procedure using the MIDTRONICS tool

Special tooling required	
Elé. 1593	Battery tester
	MIDTRONICS R330

Test conditions

The measurement must be taken when the vehicle is stationary and the ignition is off.

If the engine has been run in the last hour, switch the battery status to test and carry out the following operations:

- engine switched off,
- switch on the main beam headlights for **2 minutes**.
- switch off the main beam headlights,
- wait for **2 minutes**,
- switch off the ignition.

Equipment to be used:

- Tester approved by the Service Department: MIDTRONICS MICRO R330.
 - Tool available as part no.: Elé. 1593.
 - Equipment available in France from the Parts Department.
 - Tool available in 6 languages.
- For other countries, consult your contact in your country.

WARNING

Failure to observe the procedure or poorly maintained equipment may result in incorrect measurements, which could be:

- detrimental to the customer (the battery is not sound),
- detrimental to RENAULT (unnecessary replacement of a sound or rechargeable battery),
- detrimental to the dealership (if the battery is tested as sound or rechargeable for a part return under warranty, the warranty reimbursement request will be cancelled).

Mode (test on vehicle)

- Connect the tool directly to the battery terminals, without disconnecting the vehicle battery, as close as possible to the battery terminal but ensuring it is not after the fuse (on-vehicle test) or carry out the battery test after disconnecting the two terminals (see **note**),
- check that the vehicle ignition is switched off,
- select the "battery connected to the vehicle" or "battery disconnected" test using buttons  and . Confirm by pressing the green key 
- The test is carried out to the EN standard by default. Confirm with the green  button.
- Select the starting power on the battery label using buttons  and .

5	5	0				0	4	2
12V	50Ah	L1	EN	test	420A			

Maximum starting current

- Confirm with the green  button.
- The tool displays **TEST IN PROGRESS**.
- The MIDTRONICS tool carries out the test and gives the results of the fault finding procedure.

To set the tool language, carry out the following operations:

- before connecting the tool, simultaneously press buttons  and ,
- connect the device to the battery,
- release the keys,
- scroll through the languages using buttons  and ,
- confirm with the green  button.

Note:

The battery must always be disconnected in the following order:

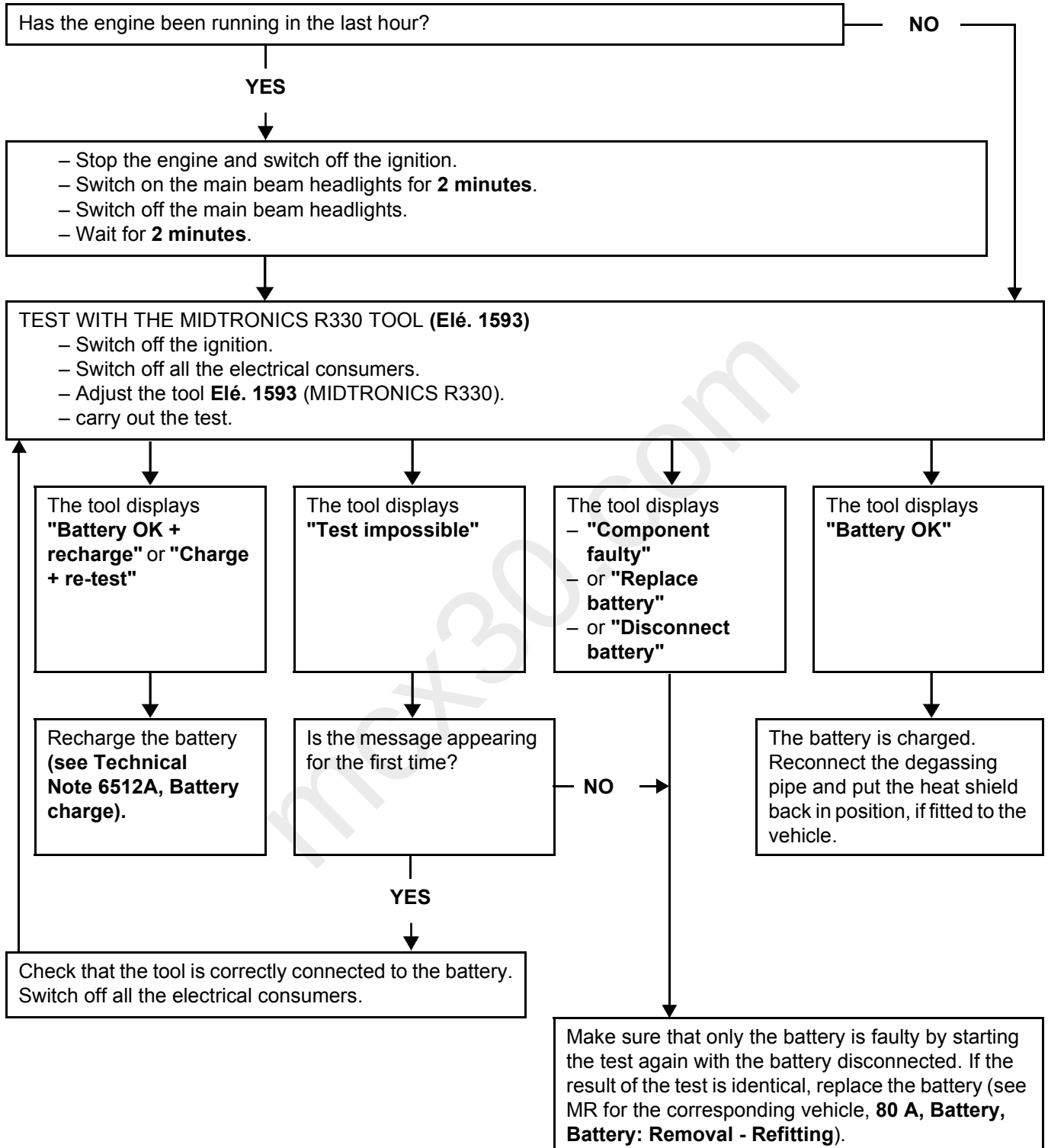
- Wait for at least **1 minute** between switching the ignition off and disconnecting the battery, to enable the computer systems to go on standby.
- Wait for the engine cooling fan to stop completely.
- Disconnect the negative terminal first.

BATTERY

Battery: Test

80A

CHECKING USING THE MIDTRONICS R330 TOOL



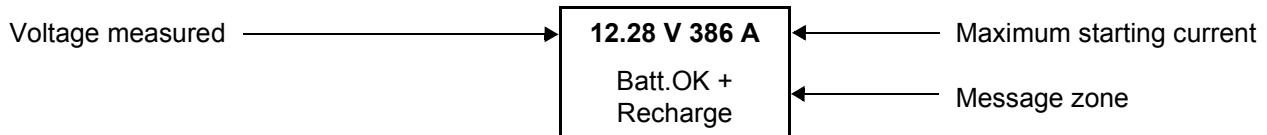
BATTERY

Battery: Result

80A

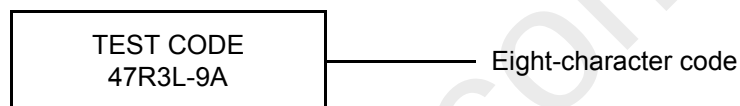
RESULTS OF MEASUREMENT

1st results screen (example):



Confirm using the green  button.

2nd results screen (example):



To stop the test, disconnect the tool.

Each code issued by the MIDTRONICS R330 tool is unique and varies according to:

- the type of battery,
- and its charge status.

Reminders

Battery charge (see **Technical Note 6512A, Charging batteries**)

Reinitialisation of systems after the batteries are disconnected (see **Technical Note 3682A, Checking batteries before new vehicle delivery, Battery: Advice**)

Claim completion and coding

Relating to the preparation of used vehicles:

The used vehicle pre-delivery battery check is complete after:

- the message **Battery OK** is displayed,
- the MIDTRONICS R330 code corresponding to the "**Battery OK**" message is noted down on the used vehicle checklist.

Relating to an operation on the battery:

- If the operation is covered by the warranty, enter the code given by the MIDTRONICS R330 tool in the "Comments" field of the Warranty reimbursement request, which provides justification for recharging or replacement.

Operation time:

Additional battery recharge

- Operation code: 8210
- Allocated time: 0.3 hours

Battery replacement

- Operation code: 8207
- Time allowed: See Operation time.

Part to be indicated: part number of faulty battery (if replaced).

Or indicate OT code concerned: battery recharge (if recharged).