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GROUP: 08 - Electrical

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SUBJECT:

Battery replacement: Difficulty vehicle start

OVERVIEW:

This bulletin involves diagnose and replace the vehicle's battery.

MODELS:

2017	(B1)	Jeep Renegade (LATAM)
2017	(M1)	Jeep Compass (Brazil)

NOTE: This bulletin applies to vehicles within the following markets/countries: LATAM.

NOTE: This bulletin applies to (M1) vehicles built on or after November 17, 2016 (MDH 1117XX) and on or before March 28, 2017 (MDH 0328XX) equipped with a 2.0L I4 DUAL VVT E100 Engine (Sales Code ECG) and equipped with Stop-Star System (Sales Code XHV).

This bulletin applies to (B1) vehicles built on or after March 17, 2016 (MDH 0317XX) and on or before March 27, 2017 (MDH 0327XX) and equipped with a 1.8L I4 E-Torque Engine E100 (Sales Code EBF) and equipped with Stop-Star System (Sales Code XHV).

SYMPTOM/CONDITION:

There is a voltage drop during the attempt to start the vehicle, causing difficulty in starting, dropping the lights on the instrument panel, or no crank.

DIAGNOSIS:

Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available in TechCONNECT, verify all related systems are functioning as designed. If DTCs or symptom conditions, other than the ones listed above are present, record the issues on the repair order and repair as necessary before proceeding further with this bulletin.

If the customer describes the symptom/condition, perform the repair procedure.

REPAIR PROCEDURE:

To avoid personal injury, you should wear gloves and use safety glasses.

NOTE: Install a battery charger to ensure battery voltage does not drop below 13.2 volts. Do not allow the charging voltage to climb above 13.5 volts during the wiTECH process.

1. Position the vehicle in the workplace.
2. Open the hood and mount the front fenders cover and front panel cover.

NOTE: The battery status SOC, SOH e SOF evaluation for the Stop-Start system can only be performed by wiTECH and not by Midtronics.

3. Make the analysis with the Midtronic device. If the response is “Recharger” or “Battery replacement”, put it on slow charge before proceed with the analysis on wiTECH.
4. Connect the wiTECH micro pod II to the vehicle data link connector located under the steering column.
5. Open the wiTECH Diagnostic application.
6. Select the Tool and enter your “User id” and “Password”.
7. From the “Vehicle View” screen, select the “BCM” icon.
8. Select the “Data” tab.
9. To check the battery status, analyze the following parameters:

Parâmetro	Valor	Ação
Valor atual (inibição de desligamento) IBS (Sensor inteligente da bateria) com defeito	VERDADEIRO	Realizar diagnose do IBS
	FALSO	IBS OK
Calibração do IBS (Intelligent Battery Sensor)	VERDADEIRO	Aguardar o tempo de calibração do sensor (4 a 12 h)
	FALSO	Calibração OK
Valor atual (inibição do desligamento) de SOC (Carga da bateria) abaixo do limite	VERDADEIRO	Bateria descarregada. Recarregar
	FALSO	Bateria OK
Valor atual (inibição do desligamento) de SOH (Eficiência da bateria) abaixo do limite	VERDADEIRO	Bateria degradada. Substituir
	FALSO	Bateria OK
Valor atual (inibição do desligamento) SOF (Tensão da bateria) abaixo do limite	VERDADEIRO	Bateria fraca. Recarregar
	FALSO	Bateria OK

Fig. 1
Screen Display

10. Save the screens with these battery parameters, in a case of a warranty submission, they should be attached to the documentation (Fig. 1) .
11. Remove wiTECH scan tool from the vehicle.
12. If battery replacement is required, press the retainer and disconnect the negative battery cable terminal from the negative battery post.

13. Loosen the nut and disconnect the terminal with the Intelligent Battery Sensor (IBS), from the negative battery post (Fig. 2) .



Fig. 2
Battery Terminal

14. Loosen the nut and disconnect the positive battery terminal with the BDU from the positive battery post. Isolate the terminal.
15. Remove the nut and move the battery retaining belt bracket out of the way, and remove the battery (Fig. 3) .



Fig. 3
Battery Removal/Installation

16. Position the battery on a work table and remove its protective cover (Fig. 4) .



Fig. 4
Protective Cover

17. Order a new battery and mount the protective cover (Fig. 4) .
18. Position the battery in place for installation (Fig. 3) .
19. Position the retaining strap bracket on the battery and tighten the nut to the battery, applying the torque of 9 Nm.
20. Connect the positive battery terminal then securely tighten the positive terminal nut, applying the torque of 6 Nm.
21. Connect the negative battery cable terminal with the IBS to the negative post of the battery and securely tighten the nut, and apply the torque of 6 Nm. (Fig. 2)
22. Install and secure the negative battery cable (1b) to the negative battery pole. Make certain the retainer (1a) is fully engaged.
23. Remove the front fenders cover and front panel cover and close the hood.
24. Remove the vehicle from the workplace.

In the case of vehicles equipped with the "Start & Stop" option, since the battery has been removed, the customer should be informed that this function will be unavailable for a few hours due to the IBS sensor self-calibration cycle.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
08-08-01-9A	Battery, Replacement (1 - Semi-Skilled)	6 - Electrical and Body Systems	0.4 Hrs.

FAILURE CODE:

ZZ	Service Action
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