

# SOFTWARE VERSION INSPECTION AND UPDATES

## AFFECTED MODEL: 2020 1290 SUPER DUKE R

## RESTRICTIONS: AFFECTED MODELS ARE LINKED BY VIN IN KTM DEALER.NET

### INITIAL INFORMATION:

It is possible that the 2020 1290 Super Duke R was not delivered with the latest software version available. Therefore, the control units listed below that are installed on the motorcycle must be checked to verify they have the latest software version downloaded. If they don't have the latest version they must be updated.

Dealers must update the flash files on all affected motorcycles in their inventory prior to any customer delivery. The control units that need checked and possibly updated are the ECU, MCU, COMBINATION INSTRUMENT, and ABS.

The new software versions contain the modifications shown in the following chart.

Control units	Modification
Engine control unit	- Improved cold starting
Combination instrument	- Diagnostic Trouble Code "Ambient light sensor" remedied - Track Mode remains stored after switching the ignition off and on again - C1/C2 assignment remains stored after switching the ignition off and on again - "ECU failure" during temporary transport unlocking remedied
ABS control unit	- "Anti-Wheelie" function error remedied
Motorcycle control unit (MCU)	- Akrapovič kit "Evolution Line" detection

### Notes:

In some circumstances, a control unit may influence functions which seemingly have no connection with the malfunction. Replacing a control unit should be avoided at all costs and will result in a rejection of the warranty claim. If an error should occur again after the update, please contact KTM Dealer Services in order to discuss further measures.

The update for the combination instrument may take up to 30 minutes. An external power supply is essential and mandatory. If the specified charger (XCharge\_Pro) is not used and the update is aborted, the control unit cannot be replaced under the manufacturer's warranty.

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### PROCEDURE FOR REPAIR:

1. Connect the motorcycle to the XC\_2 diagnostic tool and to the XCharge\_Pro external power supply by performing the following steps:
  - Remove the seat and remove the diagnostic connector push-on cap.
  - Connect the XCharge\_Pro battery charger to the vehicle battery and initiate "Back-up" mode.
  - Connect the XC\_2 diagnostic tool and its VCI to the vehicle, preferably with the USB cable (Fig.1).

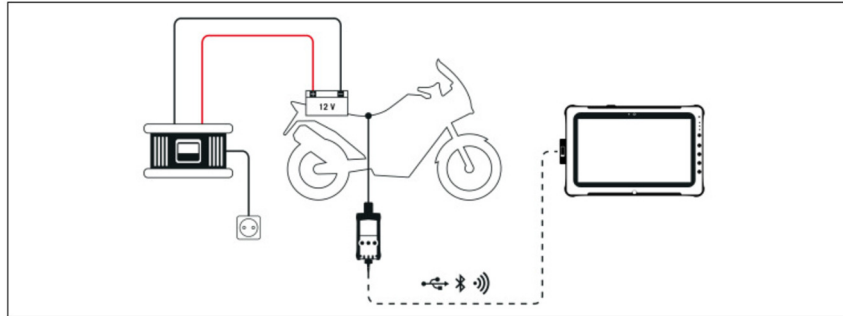


Fig. 1

2. Check the software versions of the installed ECU, MCU, Combination Instrument, and ABS control units and update if necessary.
  - Log into the XC\_2 diagnostic tool, select Control Unit Diagnostics, after a few seconds the ECU icon will appear and should have a blue arrow in the corner of the icon to signify that the Automatic Flash update is available (Fig.2), click the icon. If the arrow is missing, contact the Dealer Services Department.

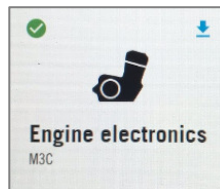


Fig. 2

- Click Automatic Flashing and follow the on-screen prompts to update the ECU.
  - After completion, check the control unit for errors by clicking Scan Again.
  - Repeat step 2 until you complete the Flashing updates for all of the control units listed.
3. After the control units have been successfully updated, switch off the ignition system for at least 1 minute.
  4. Switch on the ignition system.
  5. Select control unit diagnostics to perform the AutoScan.
  6. Check the control units for possible errors and model variant. Correct the model variant if necessary.
  7. Clear the fault memory.
  8. Perform a functional check. Allow the engine to start and idle from a cold ambient state to operating temperature (takes normally 5 minutes or less).
  9. Perform and test ride.

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**WARRANTY INPUT INFORMATION:**

**This Technical Bulletin only affects certain VIN numbers! Please check the VIN by performing a Motorcycle History search in KTM Dealer.net to determine if it's affected. If the motorcycle is affected you will see a link to the bulletin and its repair status in the history results. KTM North America will not warranty units whose VIN numbers are not linked as this bulletin does not apply to them. It is the responsibility of the dealer to determine if the unit requires this update by checking the vehicle history and understanding the instructions provided by this bulletin.**

Please note that when entering a warranty claim on an affected model, you must perform a vehicle history search, expand the **Technical information** window and click the orange arrow on the right side of the corresponding bulletin message.

You can now choose the TI Number from the list. The TI number for this procedure is according to the repairs performed and listed in the warranty claim input information; click **Continue with selected action code**.

The Warranty Claim is automatically entered for you, including parts & labor. You must enter additional information in the required fields marked with an asterisk "\*" before submitting the claim to KTM. The flat rate time for this repair is based on the action performed and provided in minutes.

<b>Warranty type:</b>
TI warranty
<b>Component group:</b>
14 - Instruments
<b>Failure code:</b>
700 – Series Improvement
<b>Failure causing part:</b>
61714069000 – Combination instrument
<b>Campaign code, parts, labor:</b>
<b>Software update for the whole vehicle</b> Campaign code: <b>11_1709996_00 - software update</b> Labor time: <b>50 minutes</b> Parts: <b>None</b>
<b>Are stock parts affected?:</b>
<b>No</b>

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