WSBK/MotoGP ECU Flash and/or RCK 2/3 Protocol Standalone

Checklist Bike start-up

**MANDATORY!** The following steps are necessary to make sure that all vehicle functionality including our optimized WSBK/MotoGP Flash ECU-Software and Protocols are operating perfect:

1. **Check bike condition.**
   - All previously removed items (ECU, Dash, etc.) are now re-installed and connected correctly per BMW Motorrad Technical Manual. Note: Battery is disconnected during these processes.
   - All sensors (e.g. wheel-speed sensors, clutch lever switch, etc.) are installed correctly.
   - Be sure that the bike battery is sufficiently charged.

2. **Prepare for adaption process.**
   - Connect data-cable (RCK 2/3) with bike and PC/laptop that has HP RCK 2/3 Software.
   - Switch-on ignition.
   - Start HP Race Calibration Kit Software (installation to your local PC may be needed).
   - Start Motorcycle paring:
     a. If, Bike Not Known in software: then setup bike parameters within window “Motorcycle data.”
     b. If, Bike is Already Known in software: then no further actions needed.
   - Check status of battery voltage and connection as “Connected” in lower status bar.

3. **Clear adaption values and learning procedure of throttle twist grip and throttle position sensor (TPS).**
   **RCK 2 (HP4, S1000RR before 2015)**
   - Go to tab “Adaption”.
   - Turn throttle twist grip to 100% (full open) and hold.
   - Click “Delete all adaption data” in RCK-software while holding the throttle 100% open.
   - Bike actuates throttle blades automatically in open and close position (throttle motor noise from intake area should be audibly recognizable), then turn twist grip to throttle 0% (full closed).

   **RCK 3 (S1000RR/R/XR from 2015-)**
   - Go to tab “Adaption”.
   - Click “Delete all adaption data” in RCK-software and close pop-up window with “OK”.
   - Click on button “Adapt throttle control sensor (Grip)” in RCK-software and close window with teach-in procedure with “Yes”.
   - Turn twist grip to 100% throttle (full open) and then close to 0% throttle and close pop-up window with “OK”.

4. **Learning procedure of Gearbox.**
   - This part can be done while riding or on rear stand (rear wheel turns free).
   - Start bike.
   - Select 1st gear, release clutch and ride/wait >10sec.
   - Repeat last step from 2nd to 6th gear, confirm each gear by pulling the clutch deliberately.
   - Select neutral, brake rear wheel to zero speed and wait >10sec.

5. **Learning procedure of DDC suspension (only DDC equipped bikes and HP4)**
   - Follow description from bike user manual “DDC”.

6. **Finish procedures and check fault memory**
   - Switch-off ignition, wait >60sec. and switch-on again.
   - Re-connect bike with RCK-software (see Section 2 above).
   - Go to tab “Fault memory”.
   - Click “Delete fault memory”.
   - Click “Read fault memory”.
   - Finish
     a. No fault detected → bike is “ready-to-go”.
     b. In case of any fault: please repeat this checklist from the beginning.
     c. If there are still the same faults present: please make a screenshot and send it to us.

**CONTACT**

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