



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 pairing:
 - 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