



HONDA HLSS-5 immo emulator

CBR1000RR: **2020-up**

Forza, X-ADV: **2021 up**

Designed for:

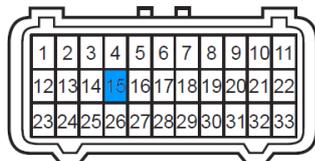
For HONDA bikes with HLSS-5 Smart Control Unit (SCU), ECU authorization via S-NET. Plug&Play. Programming is possible although usually not necessary.

Installation:

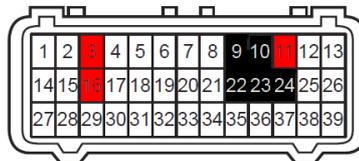
Must connect 3 wires: **+IGN, GND, S-NET**. You can install emulator inside SCU unit or near ECU, cut wire, pin or completely remove SCU board. Manage how IGN relay (kl.15) is switched on. Typical pinouts are provided below - ECU and SCU, marked. Because ECU wiring may vary between different models it is a good idea to use original repair manuals for correct pinout.

Alignment procedure:

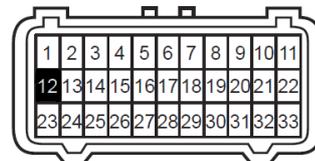
- JMP must be open (solder joint removed) to allow configuration / alignment mode;
- VIRGIN or USED ECU: switch ignition on, wait 20 seconds (until long LED blink occurs). IGN_OFF / ON, check LED, test if bike starts.
- If automatic procedure fail you may store SYNC manually using any K-line adapter (for example EMUprog) and configurator software.
- Finally place solder joint to short JMP to avoid alignment / prevent SYNC update by accident.



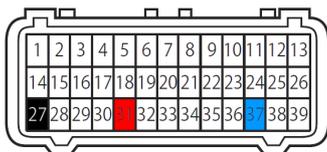
ECM 33P (Gray) CONNECTOR C



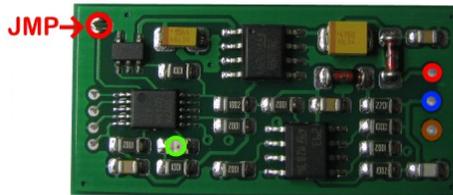
ECM 39P (Black) CONNECTOR A



ECM 33P (Black) CONNECTOR B



SMART CONTROL UNIT
39P (Black) CONNECTOR



+IGN
S-NET
GND



LED on emulator board:

- **SHORT** blink at startup, then:
- **LED OFF**: no communication with ECU;
- **CONTINUOUS SHORT** blinks: ECU communicates, NO authorization;
- **PERMANENTLY ON**: ECU communicates, AUTHORIZED
- **LONG** blink – alignment procedure / SYNC store, confirmation.

