

Example interactions

Direction

> is app to amp

< is amp to app

Starup sequence between app and amp

| Direction | Command | Parameters | Description |
|-----------|---------|-----------------------|---------------------------------------|
| > | 02 11 | | Get amp name |
| < | 03 11 | 0x08 Spark 40 | Amp name |
| > | 02 24 | 00 01 02 03 | Unknown |
| > | 02 23 | | Get serial number |
| < | 03 23 | Serial number 0xf7 | Serial number |
| > | 02 01 | 00 00 | Get preset 0 |
| < | 03 01 | | Preset 0 |
| > | 02 01 | 00 01 | Get preset 1 |
| < | 03 01 | | Preset 1 |
| > | 02 01 | 00 02 | Get preset 2 |
| < | 03 01 | | Preset 2 |
| > | 02 01 | 00 03 | Get preset 3 |
| < | 03 01 | | Preset 3 |
| > | 02 10 | | Get current hardware preset on amp |
| < | 03 10 | 00 01 | Hardware preset number |
| > | 02 2F | | Get firmware version |
| < | 03 2F | 01 00 02 fd | Firmware version |
| > | 02 01 | 01 00 | Get current amp settings |
| < | 03 01 | | Current amp settings in preset format |

Other messages from app to amp (and responses)

| Direction | Command | Parameters | Description |
|-----------|---------|------------------------|---|
| > | 01 04 | "Twin", 0, 0.5 | Increase amp gain |
| > | 01 15 | "Twin", Off | Turn amp off |
| < | 04 15 | | Acknowledge change |
| > | 01 38 | 00 01 | Change to hardware preset 1 (2-Crunch) |
| < | 04 38 | | Acknowledge change |
| > | 01 01 | <i>preset info</i> | Change to "Sweet Memory" preset (sent in multiple messages) |
| < | 04 01 | | Acknowledge part of preset info |
| > | 01 01 | <i>preset info</i> | Next block of preset info |
| < | 04 01 | | Acknowledge part of preset info |
| > | 01 01 | <i>preset info</i> | Next block of preset info |
| < | 04 01 | | Acknowledge part of preset info |
| > | 01 01 | <i>preset info</i> | Next block of preset info |
| < | 04 01 | | Acknowledge part of preset info |
| > | 01 38 | 0x 7f | Change to hardware preset 0x7f |
| < | 04 38 | | Acknowledge change |
| > | 01 06 | "Flanger", "Phaser" | Change Mod type from Flanger to Phaser |
| > | 01 04 | "Phaser", 0, 0.5 | Update parameter 0 on Phaser |
| > | 01 04 | "Phaser", 1, 0.7 | Update parameter 1 on Phaser |

Other messages from amp to app (with responses)

| Direction | Command | Parameters | Description |
|-----------|---------|----------------------------------|--|
| < | 03 06 | "Matchless", "OverDrivenJM45" | Change the amp selection on the amp to "Crunch" |
| > | 01 04 | "OverDrivenJM45", 1, 0.65 | App sends updated parameters for the new amp |
| > | 01 04 | "OverDrivenJM45", 0, 0.54 | |
| > | 01 04 | "OverDrivenJM45", 2, 0.32 | |
| > | 01 04 | "OverDrivenJM45", 3, 0.56 | |
| > | 01 04 | "OverDrivenJM45", 4, 0.66 | |
| < | 03 37 | "OverDrivenJM45", 0, 0.4 | Change gain knob on amp |
| < | 03 38 | 0 | Change preset on amp to 0 (1-Clean) |
| < | 03 27 | 3 | Save current setting on amp to preset 3 (long press on preset 3 button) |
| > | 02 01 | | App now asks amp for its settings in preset 3 |
| < | 03 01 | | Sending preset details (sent in multiple messages) |
| < | 03 01 | | Next block of preset info |
| < | 03 01 | | Next block of preset info |
| < | 03 01 | | Next block of preset info |
| < | 03 37 | "DelayMono", 0, 0.1 | Change 'level' on delay |
| > | 01 04 | "DelayMono", 0, 0.1 | Tell the amp what it just told the app - like an echo |
| < | 03 15 | "DelayMono", off | Change the parameter on delay to full anti-clockwise which turns the effect off |
| < | 03 63 | 88 | Press tap tempo a few times and it will send tempo information to the app |
| < | 03 37 | "DelayMono", 4, 1.00 | And tap tempo then sets parameter 4 in the delay to 1.00. Parameter 4 is the BPM switch on the UI. |

The interesting thing here is if you save current state into a hardware preset on the amp, it triggers the app to ask for that preset state. The only time you can get the app to ask for something.