

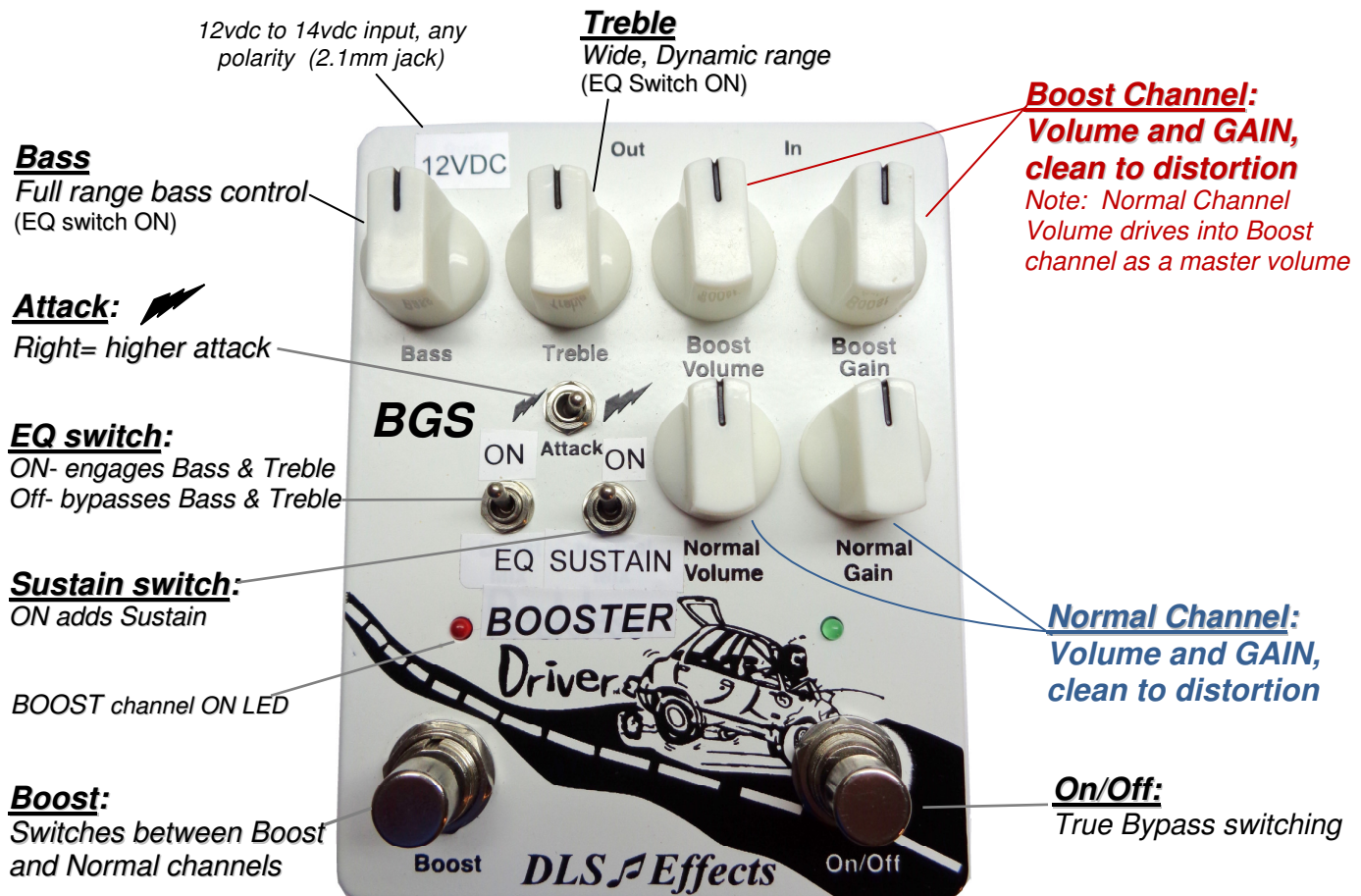
# Custom **Boost-Gain-Sustain (BGS)**

designed for *Alex Lifeson*, for the Rush **R40** tour!

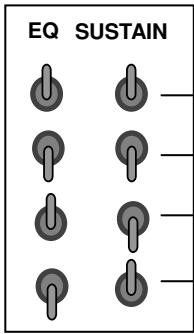
Several weeks before the start of the Rush 40<sup>th</sup> Anniversary tour, Alex and his guitar tech Scott asked Dave at DLS Effects for a custom Boost-Gain-Sustain effect for the tour. Alex's requirements were to provide boost and sustain without compression, maintain tonal purity, and break over to Rush distortion near maximum gain level. Alex tested the custom Boost-Sustain several weeks on the set list and thought it was perfect! DLS was told it also fattened his sound even more! Alex ended up using the Boost-Gain-Sustain effect for 60% of the songs on the Rush R40 tour!

## Features include:

- **Normal Channel:** with its own VOLUME and GAIN,. (the Normal Volume also drives the Boost channel like a master volume)
- **Boost Channel:** with its own VOLUME, and GAIN
- **Boost Switch:** switches between Normal and Boost channels on the fly, even if the effect is bypassed (OFF)
- **EQ Switch:** ON engages onboard Bass and Treble section, OFF bypasses Bass and Treble section (flat)
- **Bass control** (with EQ switch on): Full range bass with dynamic response \*
- **Treble control** (with EQ switch on): Wide range treble with dynamic response \*
- **Sustain:** On =added sustain and fattens the sound (with EQ switch On), OFF=normal sustain level
- **Attack switch:** Right=higher attack with brightness, Left= reduced attack and brightness
- **On/Off:** True Bypass switching utilizes high quality 3P3T switch. (no tone sucking when switched Off)
- **IN, OUT:** high quality standard 1/4" Amphenol guitar jacks.
- **High Head Room:** Internal voltage charge pump to 15vdc for warm tube sound & distortion without harsh clipping.
- **Power:** Accepts 12vdc to 14vdc input @ 40ma. Standard 2.1mm jack., any polarity! (USA style wall transformer included)
- **Size:** Extremely compact and measures only 3.7"W x 4.7"L x 1.7"H
- **Case material:** Quality die cast aluminum finished with power coat painting for durable finish.
- **Weight:** Extremely light and compact, weighing only 1.5 lbs.



## EQ and Sustain Switch Modes:

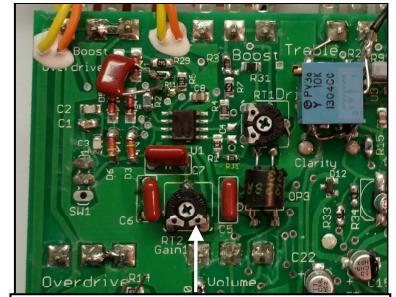


Max functions: Full Volume, Gain, Distortion, Sustain, Bass and Treble engaged

Full Volume & Gain, Bass and Treble bypassed

Volume, Gain, reduced Distortion with Bass and Treble engaged

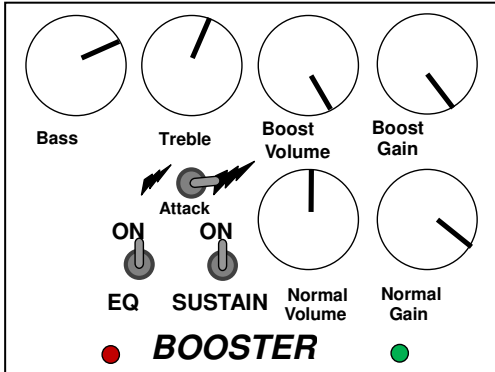
Buffer with mid Volume and Gain, Bass and Treble bypassed



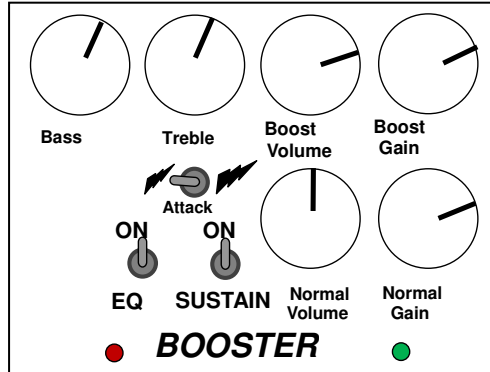
### Stage 2 Drive pot:

Factory Set to 50% rotation.  
CCW= more distortion edge  
CW= less distortion, clearer

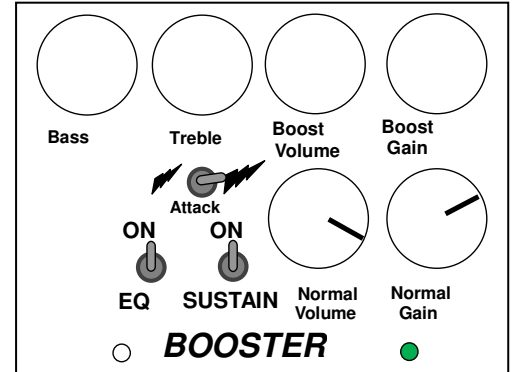
**\*\*Note:** when the EQ and SUSTAIN are both "ON", at high Boost Gain the Treble and Bass can exhibit feedback tones after 2 o'clock CW setting



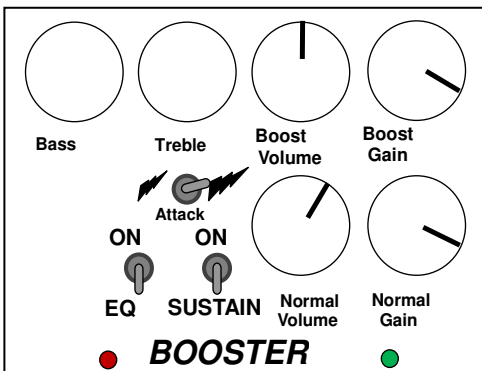
Alex Lifeson's settings for the Rush R40 tour!  
(Hi Boost, distortion, EQ, Hi Sustain)



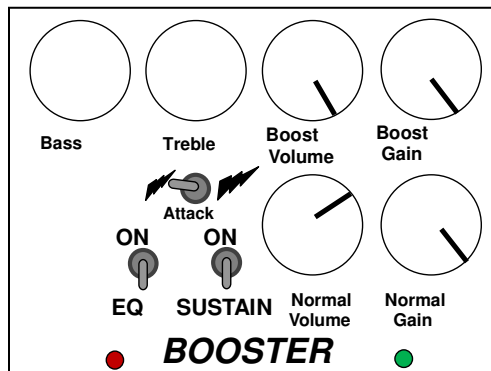
Hi Boost with Tube rolled off distortion,  
reduced Attack, EQ, Hi Sustain



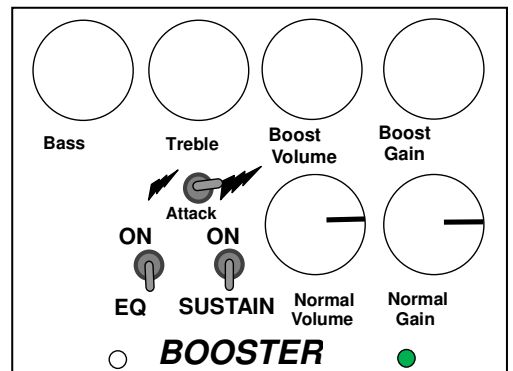
Normal Boost with Tube edge, no EQ



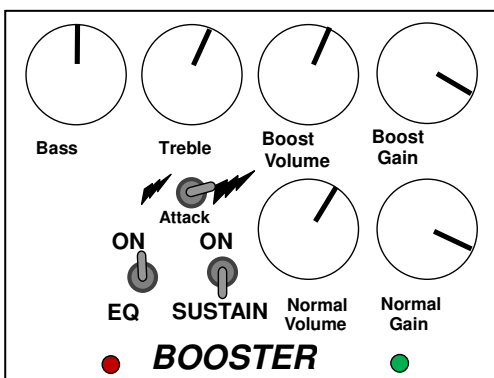
Boost, distortion, Hi Attack, no EQ



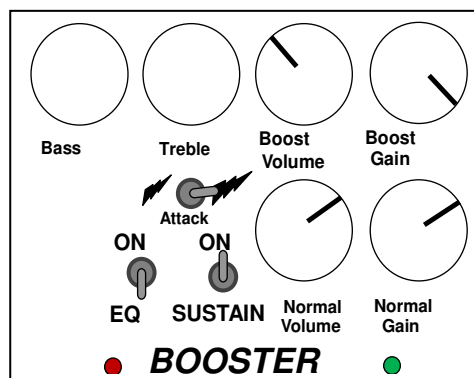
Boost, rolled off distortion  
with lower Attack, no EQ



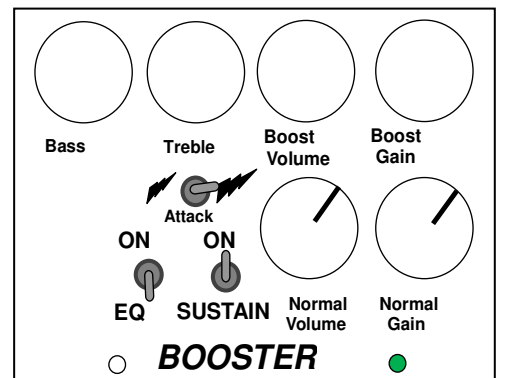
Normal Boost with bright Tube attack no EQ,



Boost with some tube  
break-over, EQ



Boost, warm tube attack, no EQ



Normal buffer Boost,  
clean tube, no EQ