

1. **INPUT:** High-Z 1/4" connection from your instrument.
2. **EFX LOOP:** Send and return 1/4" jacks used to connect effect pedals.
3. **OUTPUT:** 1/4" connection to your amplifier.
4. **9VDC POWER:** Connection for 9 volt (center-pin negative) power adapter. Includes a cable clamp to prevent accidental power disconnection.
5. **LEVEL:** Used to set the output volume level for the Overdrive.
6. **tone:** Brightens or darkens the Overdrive circuit to suit your guitar and amp setups.
7. **DRIVE:** Used to adjust the overall amount of distortion introduced in the Overdrive circuit.
8. **RANGE:** 3-position switch used to boost or cut high frequencies to suit your guitar and amp setup.
9. **DRIVE FOOTSWITCH:** Used to activate the Overdrive circuit.
10. **BOOST FOOTSWITCH:** Activates the power booster and the effects loop.
11. **BOOST GAIN:** Variable Class-A power booster – 100% discrete with up to +24dB of clean gain.

**Radial Classic Specifications**

Circuit Type: ..... Class-A discrete  
 Frequency Response: ..... Adjustable via tone and range controls  
 Gain – Boost: ..... Variable from +3dB to +24dB  
 Gain – Overdrive: ..... Variable from +3dB to +30dB  
 Footswitch - Drive: ..... Latching switch engages overdrive  
 Footswitch - Boost: ..... Latching switch engages boost and effects loop  
 Effects Loop: ..... Send & return jacks for additional pedals before boost stage  
 Power: ..... 9VDC, adapter not included

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**NORTH-STAR™**  
**OVERDRIVE & BOOST PEDAL**



**USER GUIDE**

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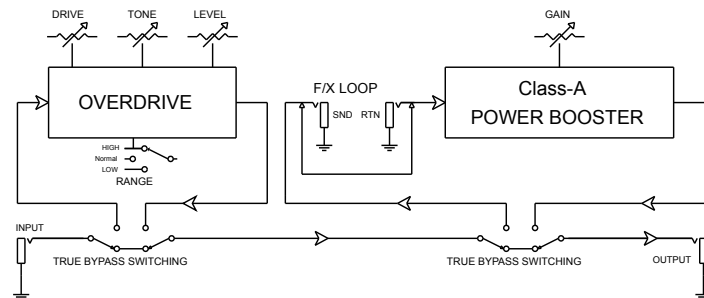
## OVERVIEW

Thank you for purchasing the North-Star, an exciting new pedal that provides a power booster along with an Overdrive capable of a variety of musical styles; whether you play country, rock or something in between, the North-Star will provide harmonically rich overdrive tones to suit your style. One listen and we're sure you will agree.

Before you start playing with the North-Star, please take a look through this short user guide, which outlines the various features and possibilities available with this pedal. For more information such as frequently asked questions, updates and sound clips, please visit the Radial website. Should you find yourself still in need of answers, send us an email at [info@radialeng.com](mailto:info@radialeng.com) and we will do our best to respond in short order.

## MAKING CONNECTIONS

Before you connect to the North-Star, make sure to turn your guitar amp down or off to avoid loud turn-on transients that can cause damage to your amplifier. There is no power switch on the device, you simply connect to a 9V supply and the unit will turn on. You can check that it is receiving power by depressing one of the footswitches to see if the LED illuminates. The North-Star does not come with a power supply as most players will use a multi-pedal power brick on their pedalboard. You can use a standard Boss® style 9V adapter for power, with a 2.1mm barrel connector wired for center-pin negative polarity. The power cable can be affixed to the pedal using the cable lock provided, preventing accidental disconnection. Use a hex key to unscrew the cable lock, pass the cable through the cavity and then retighten.



## THE OVERDRIVE

Start with the LEVEL and TONE controls at 12 o'clock and the DRIVE control set to 9 o'clock. Next, turn your amp on and the volume up and depress the DRIVE footswitch. Test out different settings on the LEVEL control to get an idea of the range of the Overdrive, as it can provide a lot of gain to your signal. Now you can experiment with the TONE and DRIVE settings. The TONE control will add more high frequency content as you turn it clockwise. All three of these controls interact, so increasing the DRIVE will also increase the overall output level.

## THE RANGE

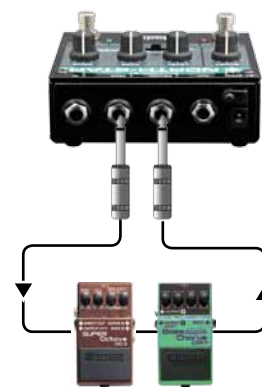
The 3-position RANGE switch has three settings: Low, Normal and High. This will adjust the high frequency output of the Overdrive, allowing you to compensate for overly bright or dark amplifiers. Use in conjunction with the TONE control to fine tune your sound.

## THE BOOSTER

Start with the BOOST level down at 7 o'clock. Turn off the Overdrive, engage the BOOST footswitch and listen as you increase the volume. You can use the Boost function for high-output soloing, or to push the front end of your amp harder. When the Boost is activated, it will also engage the effects loop, bringing your effects pedals into the signal chain after the Overdrive section and before the Boost.

## THE EFFECTS LOOP

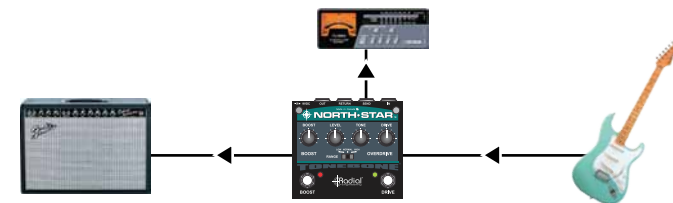
The built-in effects loop allows you to connect a series of pedals that are brought into the signal chain when you engage the BOOST footswitch. This allows you to simultaneously activate the Booster and a delay or chorus pedal, giving you a more streamlined and professional transition for soloing. The effects loop employs standard ¼" guitar cable connections.



## ALTERNATIVE EFFECT LOOP SET-UPS

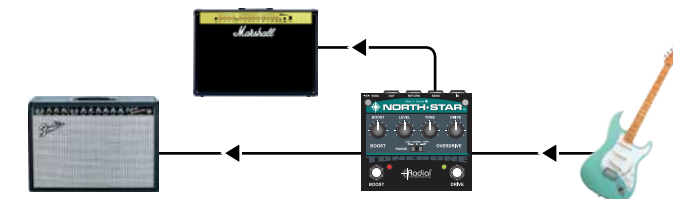
### 1) Connecting a tuner

You can connect a tuner to the effects SEND jack and when the Boost is engaged, it will shut off the signal going to the amp for quiet on-stage tuning.



### 2) Connecting a second amp

You can also connect a second guitar amp using the effects send. However, as this output is not isolated, you may experience a ground loop. To minimize the possibility of noise, make sure both amps are connected to the same electrical circuit using a power bar. Also, make sure both amps have a proper U-ground attached for safety.



### 3) Connecting a second guitar

You can connect a second guitar to the North-Star by using the effects RETURN jack. This will bypass the Overdrive circuit and feed directly into the Booster when activated.

