

IRONHEART
- F O U N D R Y -



IRF-LOUDPEDAL

USER MANUAL



CONTENTS

INTRODUCTION	2
FEATURES	3
CONTROLS	4
TOP VIEW	4
REAR VIEW	6
BOTTOM VIEW	7
CONNECTIONS	8
HOW TO CONNECT THE IRF-LOUDPEDAL	8
EXAMPLE SETTINGS.....	10
SPECIFICATIONS	11
DIMENSIONS (in mm).....	12
SAFETY AND WARNINGS	13

INTRODUCTION

In the 1700s the first Newcomen Steam Engines were designed and constructed right at the heart of England, in the midlands; a 100 years later the skies were black with smog from burning furnaces, fuelling the legendary industrial revolution. This was the beginning of the Black Country. As the fire and brimstone that once scorched the sky began to fade, another type of metal was born:

Heavy Metal. The beating heart of the Black Country.

The IRONHEART FOUNDRY is forged in flames right at the heart of the Black Country, the furnaces rekindling to create a beast. We, tone blacksmiths of the midlands, have created a monster. Compressed and contained in a die cast metal box, fed on riffs and power chords.

We call it the LOUDPEDAL, a 60-Watt twin channel amplifier in a pedal format. It's soul, from the IRONHEART that resides in the home of industrial revolution is designed in the UK by Laney's Black Country Customs dedicated team.

Channel 1 has the ability to range from crystal cleans to soaring leads, the most flexible of the channels. You dial in what you want.

Channel 2 is all about the gain. It can deliver Earth shattering power, from controlled gut punching tones at lower gains to untamed feral roars when really turned up.

The 3 Band EQ section is the tonal offspring of the legendary IRONHEART 120-Watt head, capturing its nuance and flexibility. A traditional passive tone stack with complex interactivity that never sounds bad.

Featuring a fully transformer isolated FX loop for a pure, unadulterated signal between the LOUDPEDAL and your favourite guitar pedals - allowing you noise free performance.

A superb quality XLR out with switchable, no latency, all analogue speaker emulation - perfect for recording or to feed direct to Front of House on stage or in ear monitors.

Auxiliary input and headphone output ideal for practicing at home or on the move.

And then, if you dare, the last control. If you weren't already maddened by the insanity of the LOUDPEDAL, the switchable BOOST is there to tip you over the limit. Push your drive tones further and feel the very soul of the IRONHEART pour out.

And yes, it's LOUD.



FEATURES

- 60 Watts RMS
- 2 Independent Channels
- CH1 - Clean/Rhythm/Lead Modes.
- CH2 - Bright/Normal/Dark Voicing.
- 3 Band Passive EQ Tone Stack.
- Switchable Pre-Boost, with Level control.
- Speaker Emulated XLR output.
- Loudspeaker output.
- Transformer Isolated Effects Loop.
- AUX Input.
- Headphone Output.
- 100-240V Universal Voltage Power Supply Included.
- Compatible with minimum 8Ω speaker cabinets.

CONTROLS

TOP VIEW



CHANNEL SETTINGS

Thanks to its dual channel setup, the LOUDPEDAL allows you to easily switch between two tones set by the user. By default, Channel 2 possesses more gain than Channel 1 and will distort much easier as you increase the gain. With their own individual volume and gain controls, the levels can be changed independently, allowing you two different tones to switch between.

- CH1/2 FOOTSWITCH - Choose between the two channels using this switch, found on the bottom left of the pedal. The top right LED will light up to indicate Channel 1 is active and the top middle LED will light up when Channel 2 is active.

CHANNEL 1

- CHANNEL 1 GAIN CHARACTER SWITCH

The Gain Character Switch (GCS) allows refined control of the distortion characteristics of the channel. Changing the GCS mode will affect how the drive stage reacts and responds. Each setting of the GCS has a sweet spot which the effect is most noticeable. This tends to be at mid to higher gain levels.

- CLEAN - Soft clipping is applied to the drive stage giving the least amount of compression and allowing for a more open tone.
- RHYTHM - This setting provides Asymmetrical clipping adding more distortion whilst retaining some clarity and dynamics.
- LEAD - Symmetrical clipping is applied, giving more aggressive distortion for a high gain, compressed sound.

CHANNEL 2

- CHANNEL 2 TONE SWITCH
 - BRIGHT - Extends the high frequencies and slightly dulls the low-end.
 - DARK - Boosts the low-end frequencies adding some warmth to the tone whilst reducing the power of the higher frequencies.
 - OFF - Middle setting results in no change to your signal from this switch.

EQ CONTROLS

The LOUDPEDAL's built in passive EQ stack allows you to fine tune your sound. As a starting point, 12'o clock is the neutral setting for these and will provide you with the most even output.

- BASS - Adjusts the strength of the low-end response of your output, for a deeper sound when turned clockwise.
- MIDDLE - Adjusts the strength of the mid-range response of your output, that when turned clockwise gives a fuller sound
- TREBLE - Adjusts the strength of the top-end response of your output. Turning clockwise will boost the brighter, higher notes

The 3 EQs are all linked, meaning no matter how you change them, you will always have a musical tone from the pedal. Feel free to experiment and find your favourite sound.

BOOST CONTROL

Using the footswitch on the right-hand side of the pedal, the boost pre-gain can be turned on and off. An additional gain setting that acts as a boost pedal in front of your LOUDPEDAL, driving your signal for more distortion. The LED just above the footswitch lights up when the boost is active, working on both channels simultaneously.

REAR VIEW



POWER

- Included power supply runs universally at 100-240V~.

Warning: Only connect the provided 24V 60W power supply to the DC inlet.

- Use to turn on and off the pedal. We suggest turning the pedal off when plugging in the power supply. IRONHEART logo will light up on the front indicating the pedal is on.

HEADPHONES OUT

- 3.5mm jack to connect your headphones for silent practice. Your selected tone will play directly into your headphones. Can also be connected to a speaker simultaneously, producing sound at both outputs.

AUX IN

- 3.5mm jack to plug in any MP3 audio playing device to add a backing mix to your guitar track. This is added after the FX loop

DI OUT

- A balanced XLR output to your external device such as a PA or audio interface. Set your desired tone on the pedal first then set the parameters on your chosen interface to get the sound you want.
- SPEAKER EMULATION - Use to turn on and off the inbuilt speaker emulation for your DI output. A high-quality emulation that will give you the authentic loudspeaker sound direct to your audio interface.
- GROUND LINK - Disconnects the ground from pin 1 of the DI output ONLY. Useful to attempt to reduce ground loop hum when connected.

BOTTOM VIEW



INPUT

- 6.3mm input jack. Plug your signal input in here, either direct from your guitar or from your pedalboard setup.

FX SEND (TRANSFORMER ISOLATED)

- 6.3mm output jack. If you are using the LOUDPEDAL as your amplifier, connect this to the start of your FX pedalboard loop. Otherwise, if using the LOUDPEDAL purely as a twin channel gain pedal, this can be connected to the front of your existing amplifier set up.

FX RETURN

- 6.3mm jack to connect the end of your FX loop back to the LOUDPEDAL. Connect the end of your pedalboard setup to this input.

LOUDSPEAKER

- 6.3mm jack to output your signal to your speaker cabinet. ONLY use this output when using the LOUDPEDAL as an amplifier, connecting this to a passive 8-16 OHM speaker cabinet via class 2 wiring.

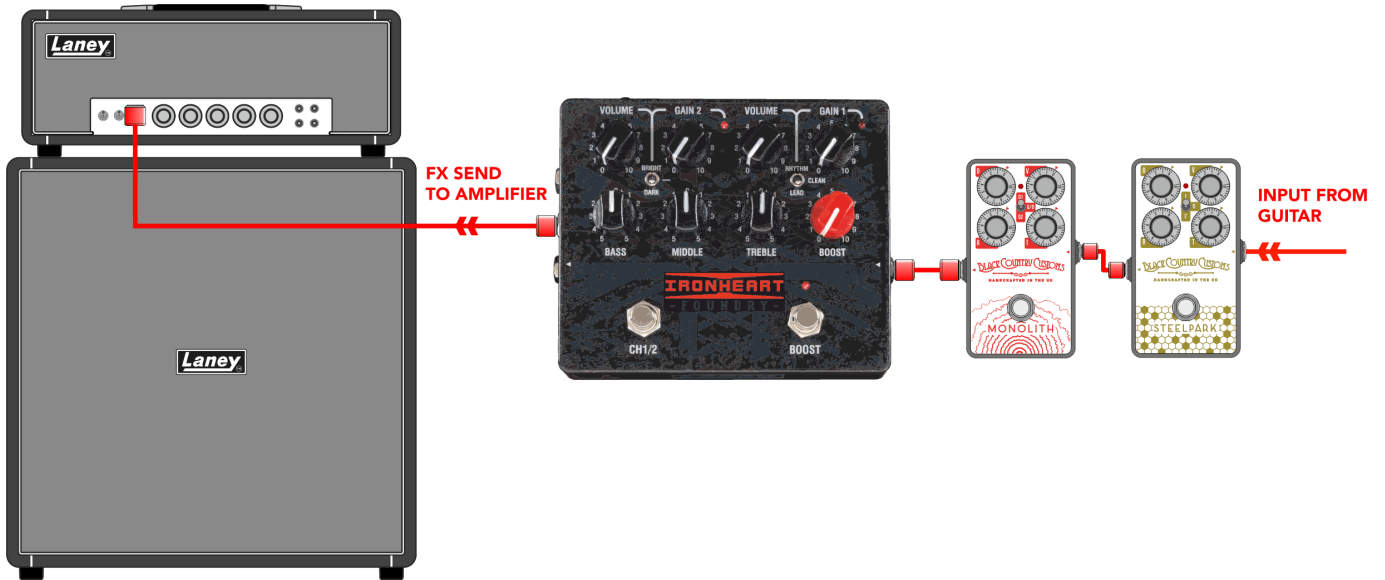
NOTE: Minimum impedance for your speaker cabinet is 8Ω and can damage the unit if used with the wrong impedance

CONNECTIONS

HOW TO CONNECT THE IRF-LOUDPEDAL

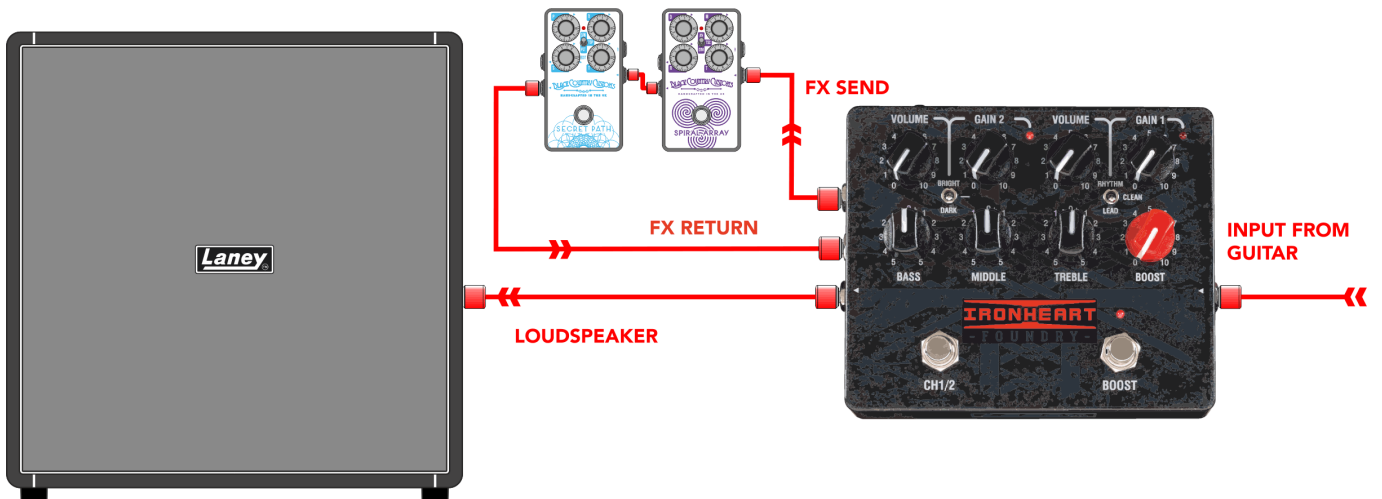
AS A PEDAL IN FRONT OF AN AMPLIFIER

The LOUDPEDAL can be connected in series with your regular pedal setup to act as a dual channel gain pedal with additional boost



AS AN AMPLIFIER WITH FX LOOP

You can also connect your pedalboard to the LOUDPEDAL's FX loop, and use the pedal in place of a regular amplifier. Output this to a minimum 8ohm passive speaker cabinet and you have your very own lightweight, portable amplifier



HEADPHONES OUTPUT

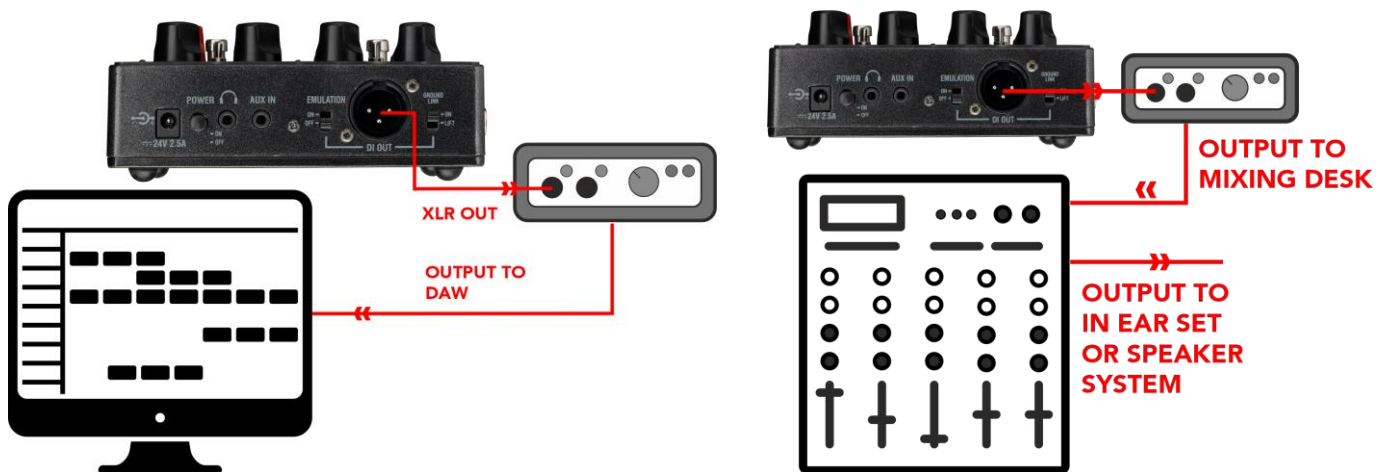
As well as outputting to a passive speaker or an amplifier, the LOUDPEDAL can also play into headphones via the 3.5mm headphone jack without the need for another amp. This is found on the back panel of the pedal and allows for silent practise.



NOTE: Use with 33ohm headphones only

XLR OUTPUT

The LOUDPEDAL has a DI output that can be connected to various devices depending on what you are using it for. Along with our high quality speaker emulation, the DI port can deliver your signal to wherever you need it. Here are a few of those possibilities:



AUX IN

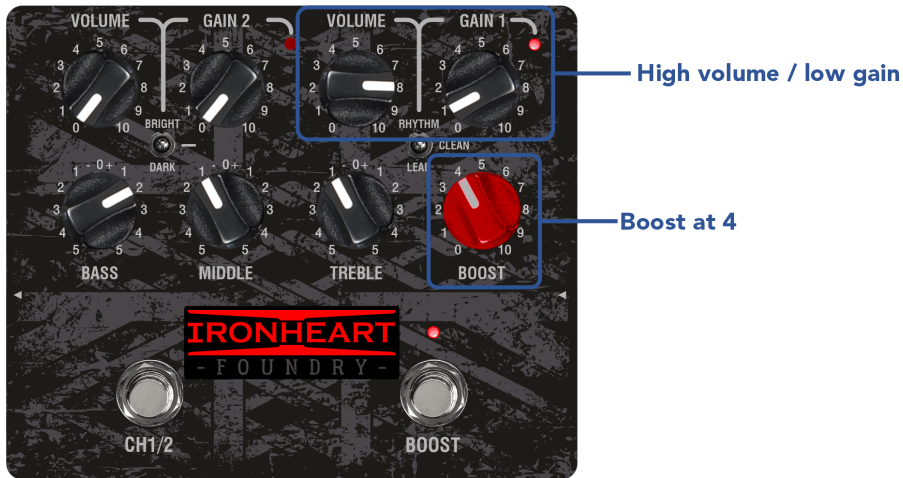
Should you want to practice with a backing track, the LOUDPEDAL comes with an AUX in connection. This way you can plug in an audio playing device to the 3.5mm jack, adding a background mix to your guitar track.



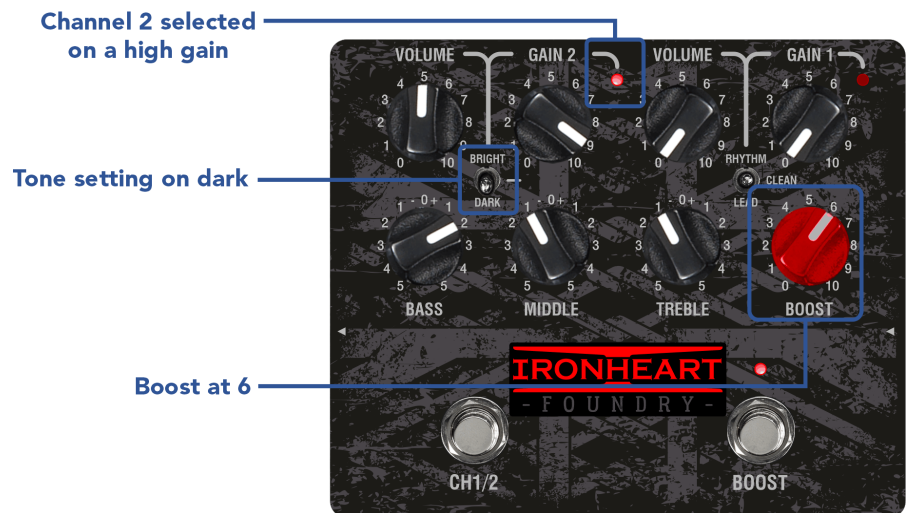
EXAMPLE SETTINGS

The best way to get started with your LOUDPEDAL is to experiment with the controls to find your favourite sounds. However for a head start, here are a few example tone settings to try out:

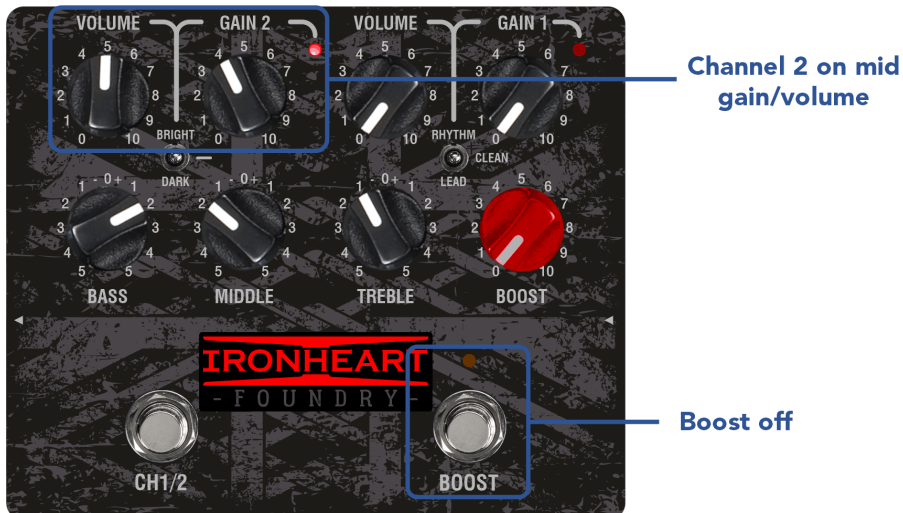
CLEAN



LEAD



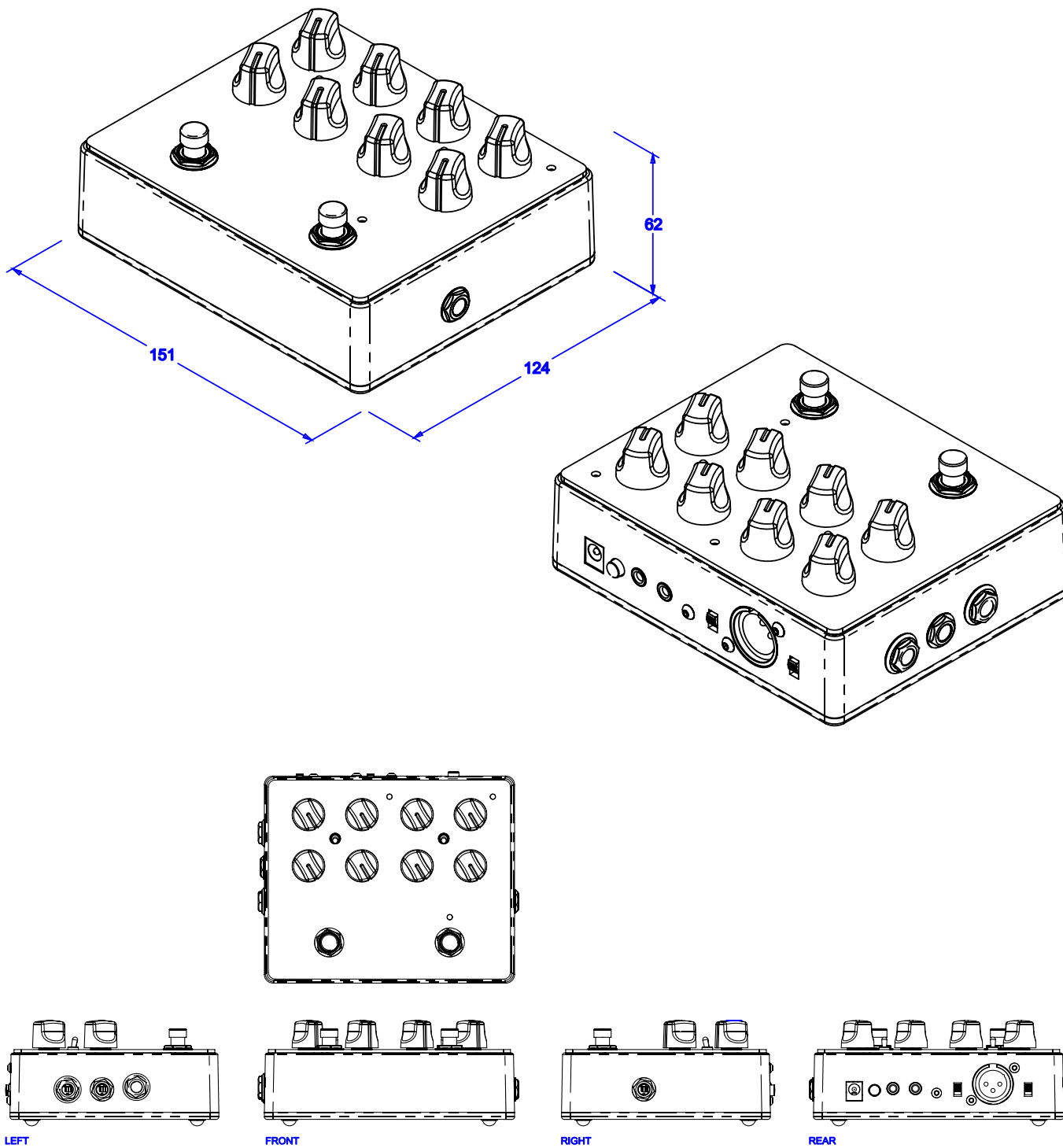
CRUNCH



SPECIFICATIONS

Specifications	
Model	IRF-LOUDPEDAL
Type	Floor Mounted Guitar Amplifier
Input Impedance	1MΩ
Line Output Impedance	100Ω
Amplifier Power	60W RMS
Controls	Two Channels both with Gain and Volume. CH1 Clean, Rhythm, Lead switch. CH2 Natural, Bright, dark switch. Input pre-boost level and footswitch with LED indicator. Bass, Middle, treble controls. Channel select footswitch with LED indication. On/Off soft start power switch DI out emulation on/off and ground link switches
Inputs	6.3mm (1/4") Mono Instrument Input Jack, 3.5mm stereo aux in jack
Outputs	6.3mm (1/4") Mono Speaker Output Jack, 6.3mm FX Send (Transformer Isolated), 6,3mm FX Return jack, Balanced Male XLR DI out, 3.5mm stereo headphone jack
Power Supply	Regulated 24V 2.5A 60W DC PSU Included: centre Positive, 2.1 x 5.5 x 12mm connector type
Typical Power Consumption	60W
Unit dimensions (HWD)	62 x 151 x 124mm, (2.4" x 5.9" x 4.9")
Unit weight	1.05Kg, (2.3 lbs)
Carton dimensions (HWD)	125 x 275 x 295mm, (4.9" x 10.8" x 11.6") , 0.01 M3
Packed Weight	1.3Kg, (2.9 lbs)
EAN Code (Single)	5060109458329
Master Carton Dimensions (HWD)	155 x 565 x 605mm, (6.1" x 22.2" x 23.8") , 0.053 M3
Master Shipping Carton Weight	5.8Kg, (12.8 lbs)
EAN Code (Shipping)	5060109458336 (4 pcs)

DIMENSIONS (in mm)









SAFETY AND WARNINGS

In order to take full advantage of your new product and enjoy long and trouble-free performance, please read this owner's manual carefully, and keep it in a safe place for future reference.

- 1) **Unpacking:** On unpacking your product please check carefully for any signs of damage that may have occurred whilst in transit from the Laney factory to your dealer. In the unlikely event that there has been damage, please re-pack your unit in its original carton and consult your dealer. We strongly advise you to keep your original transit carton, since in the unlikely event that your unit should develop a fault, you will be able to return it to you dealer for rectification securely packed.
- 2) **Amplifier Connection:** In order to avoid damage, Generally it is advisable to establish and follow a pattern for turning on and off your system. With all system parts connected, turn on source equipment, mixers, effects processors etc, BEFORE turning on your amplifier. Many products have large transient surges at turn on and off which can cause damage to your speakers. By turning on your amplifier LAST and making sure its level control is set to a minimum, any transients from other equipment should not reach your loud speakers. Wait till all system parts have stabilised, usually a couple of seconds. Similarly when turning off your system always turn down the level controls on your amplifier and then turn off its power before turning off other equipment.
- 3) **Cables:** Never use shielded or microphone cable for any speaker connections as this will not be substantial enough to handle the amplifier load and could cause damage to your complete system. Use good quality shielded cables everywhere else.
- 4) **Servicing:** The user should not attempt to service these products. Refer all servicing to qualified service personnel.
- 5) Heed all warnings.
- 6) Follow all instructions.
- 7) Do not use this apparatus near water.
- 8) Clean only with a dry cloth.
- 9) Do not block any of the ventilation openings. Install in accordance with manufacturer's instructions.
- 10) Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
- 11) An apparatus with Class I construction shall be connected to a mains socket outlet with a protective connection. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 12) Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point they exit from the apparatus.
- 13) Only use attachments/accessories provided by the manufacturer.
- 14) Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 15) The mains plug or appliance coupler is used as the disconnect device and shall remain readily operable. The user should allow easy access to any mains plug, mains coupler and mains switch used in conjunction with this unit thus making it readily operable. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 16) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 17) Never break off the ground pin. Connect only to a power supply of the type marked on the unit adjacent to the power supply cord.
- 18) If this product is to be mounted in an equipment rack, rear support should be provided.
- 19) Note for UK only: If the colours of the wires in the mains lead of this unit do not correspond with the terminals in your plug, proceed as follows:
 - o The wire that is coloured green and yellow must be connected to the terminal that is marked by the letter E, the earth symbol, coloured green or coloured green and yellow.
 - o The wire that is coloured blue must be connected to the terminal that is marked with the letter N or the colour black.
 - o The wire that is coloured brown must be connected to the terminal that is marked with the letter L or the colour red.
- 20) This electrical apparatus should not be exposed to dripping or splashing and care should be taken not to place objects containing liquids, such as vases, upon the apparatus.
- 21) Exposure to extremely high noise levels may cause a permanent hearing loss. Individuals vary considerably in susceptibility to noise-induced hearing loss, but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a sufficient time. The U.S. Government's Occupational Safety and Health Administration (OSHA) has specified the following permissible noise level exposures: According to OSHA, any exposure in excess of the above permissible limits could result in some hearing loss. Earplugs or protectors to the ear canals or over the ears must be worn when operating this amplification system in order to prevent a permanent hearing loss, if exposure is in excess of the limits as set forth above. To ensure against potentially dangerous exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of producing high sound pressure levels such as this amplification system be protected by hearing protectors while this unit is in operation.

Duration Per Day in Hours	Sound Level dBA, slow response
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	105
1/2	110
1/4 ou inférieur	115
- 22) If your appliance features a tilting mechanism or a kickback style cabinet, please use this design feature with caution. Due to the ease with which the amplifier can be moved between straight and tilted back positions, only use the amplifier on a level, stable surface. DO NOT operate the amplifier on a desk, table, shelf or otherwise unsuitable non-stable platform.
- 23) Symbols & nomenclature used on the product and in the product manuals, intended to alert the operator to areas where extra caution may be necessary, are as follows:

 CAUTION:	<p>Intended to alert the user to the presence of uninsulated 'Dangerous Voltage' within the products enclosure that may be sufficient to constitute a risk of electrical shock to persons.</p> <p>Ce symbole est utilise pur indiquer a l'utilisateur de ce produit de tension non-isolee dangereuse pouvant etre d'intensite suffisante pour constituer un risque de choc electrique.</p> <p>Este simbolo tiene el proposito de alertar al usuario de la presencia de '(voltaje) peligroso' que no tiene aislamiento dentro de la caja del producto que puede tener una magnitud suficiente como para constituir riesgo de corrientazo.</p> <p>Dieses Symbol soll den Anwender vor unisolierten gefahrlichen Spannungen innerhalb des Gehauses warnen, die von Ausreichender Starke sind, um einen elektrischen Schlag verursachen zu konnen.</p>
 WARNING:	<p>Intended to alert the user of the presence of important operating and maintenance (Servicing) instructions in the literature accompanying the product.</p> <p>Dieses Symbol soll den Anwender vor unisolierten gefahrlichen Spannungen innerhalb des Gehauses warnen, die von Ausreichender Starke sind, um einen elektrischen Schlag verursachen zu konnen.</p>

	<p>Este simbolo tiene el proposito de la alertar al usuario de la presencis de instrucccones importantes sobre la operacion y mantenimiento en la literatura que viene conel producto.</p> <p>Dieses Symbol soll den Benutzer auf wichtige Instruktionen in der Bedienungsanleitung aufmerksam machen, die Handhabung und Wartung des Produkts betreffen.</p>
CAUTION:	Risk of electrical shock - DO NOT OPEN. To reduce the risk of electrical shock, do not remove the cover. No user serviceable parts inside. Refer servicing to qualified personnel.
ATTENTION:	Risques de choc electrique - NE PAS OUVIRIR. Afin de reduire le risque de choc electrique, ne pas enlever le couvercle. Il ne se trouve a l'interieur aucune piece pouvant etre reparee par l'utilisateur. Confier l'entretien a un personnel qualifie.
PRECAUCION:	Riesgo de corrientazo - no abra. Para disminuir el risego de carrientazo, no abra la cubierta. No hay piezas adentro que el pueda reparar. Deje todo mantenimiento a los tecnicos calificadod.
VORSICHT:	Risiko - Elektrischer Schlag! Nicht offen! Um das Risiko eines elektrischen Schlages zu vermeiden, nicht die Abdeckung entfernen. Es befinden sich keine Teile darin, die vow Anwender repariert werden Konnten. Reparaturen nur von qualifiziertem Fachpersonal durchfuhren lassen.
WARNING:	To prevent electrical shock or fire hazard, do not expose this appliance to rain or moisture. Before using this appliance please read the operating instructions for further warnings.
ADVERTISSEMENT:	Afin de prevenir les risques de decharge electrique ou de feu, n'exposez pas cet appareil a la pluie ou a l'humidite. Avant d'utiliser cet appareil, lisez les advertissements supplentaires situes dans le guide.
ADVERTENCIA:	Para evitar corrientazos o peligro de incendio, no deja expuesto a la lluvia o humedad este aparato Antes de usar este aparato, lea mas advertcias en la guia de operacion.
ACHTUNG:	Um einen elektrischen Schalg oder Feuergefahr zu vermeiden, sollte dieses Gerat nicht dem Regen oder Feuchtigkeit ausgesetzt werden. Vor Inbetriebnahme unbedingt die Bedienungsanleitung lesen.
	<p>This device complies with Part 15 of the FCC rules Operation is subject to the following two conditions:</p> <ol style="list-style-type: none"> 1) This device may not cause harmful interference 2) This device must accept any interference received, that may cause undesired operation. <p>Warning: Changes or modification to the equipment not approved by Laney can void the user's authority to use the equipment.</p> <p>Note: This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures. Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.</p>
	<p>This product conforms to the requirements of the following European Regulations, Directives & Rules: CE Mark (93/68/EEC), Low Voltage (2014/35/EU), EMC (2014/30/EU), RoHS (2011/65/EU), ErP (2009/125/EU)</p> <p>SIMPLIFIED EU DECLARATION OF CONFORMITY</p> <p>Hereby, Laney Electronics Ltd. declares that the radio equipment is in compliance with Directives 2014/53/EU, 2011/65/EU, 2009/125/EU. Full text of the EU declaration of conformity is available at the following internet address:</p> <p>http://support.laney.co.uk/approvals</p>
	<p>The object of the declaration described above is in conformity with the relevant statutory requirement Electrical Equipment (Safety) Regulations 2016, Electromagnetic Compatibility Regulations 2016, The Restriction of the use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012, The Ecodesign for Energy-Related Products and Energy Information, (Amendment) (EU Exit) Regulations 2012</p>
	<p>In order to reduce environmental damage, at the end of its useful life, this product must not be disposed of along with normal household waste to landfill sites. It must be taken to an approved recycling centre according to the recommendations of the WEEE (Waste Electrical and Electronic Equipment) directive applicable in your country.</p>

IRONHEART

- F O U N D R Y -



STEELPARK ROAD, COOMBSWOOD BUSINESS PARK WEST, HALESOWEN, B62 8HD. UK
FOR THE LATEST INFORMATION PLEASE VISIT WWW.LANEY.CO.UK

IN THE INTEREST OF CONTINUED DEVELOPMENT, LANEY RESERVES THE RIGHT TO AMEND PRODUCT SPECIFICATION WITHOUT PRIOR NOTIFICATION.

V0.1

