

# SPECIFICATIONS:

INPUT IMPEDANCE:	1 M OHM
OUTPUT IMPEDANCE:	600 OHM
POWER CONNECTOR:	9VDC, CENTER NEGATIVE, 2.1MM X 5.5MM
OPERATING VOLTAGE:	4V TO 18V (NOMINAL 9V)
MAXIMUM VOLTAGE:	20Vdc
REVERSE BATTERY PROTECT:	YES
CURRENT CONSUMPTION:	8MA
ESTIMATED BATTERY LIFE:	75 - 100 HOURS CONTINUOUS USE
DIMENSIONS:	2.50" WIDTH X 4.50" DEPTH X 1.25" HEIGHT
WEIGHT:	0.75 POUND
FXLINK CONNECTOR:	1/8" STEREO
FXLINK MAX VOLTAGE:	3.3VDC
SHIELD → TIP:	ACTIVATE
ROHS COMPLIANT:	YES - ALL COMPONENTS, FINISHES, PROCESSES
AGENCY APPROVALS:	NONE REQUIRED



**IF YOU HAVE ANY Q'S VISIT  
WWW.SUHRGUITARS.COM**

**THANK YOU FOR PURCHASING  
THE SUHR RIOT DISTORTION PEDAL.**

## WARRANTY FOR SUHR AMPLIFIERS AND ELECTRONIC PRODUCTS:

JST WARRANTS FOR LIFETIME FROM DATE OF PURCHASE BY THE INITIAL RETAIL PURCHASER THAT THIS PRODUCT SHALL BE FREE FROM DEFECTS IN WORKMANSHIP. ELECTRONIC COMPONENTS SUCH AS CAPACITORS, RESISTORS, FILTERS, TRANSFORMERS, JACKS, AND POTS ARE COVERED FOR 5 YEARS. ANY PARTS DETERMINED DEFECTIVE BY JST WITHIN THE FIVE (5) YEAR TERM SHALL BE REPAIRED OR REPLACED BY JST WITHOUT CHARGE FOR PARTS AND LABOR PROVIDED THE UNIT IS RETURNED, TRANSPORTATION COSTS PREPAID, TO JS TECHNOLOGIES, INC., 18650 COLLIER AVE., UNIT A, LAKE ELSINDRE, CA 92530, OR TO SUCH FACILITY AUTHORIZED BY JST. JST WILL PAY SHIPPING COSTS TO RETURN THE UNIT TO ITS OWNER. DEFECTS IN WORKMANSHIP WILL BE DETERMINED BY JST FOR LIMITED LIFETIME COVERAGE.

THIS WARRANTY DOES NOT COVER DAMAGE CAUSED BY ACCIDENT, MISUSE, ABUSE, NEGLIGENCE, UNAUTHORIZED OR IMPROPER REPAIRS, ALTERATIONS, AND/OR WEAR AND TEAR OCCASIONED BY USE OF THE PRODUCT, AND DOES NOT INCLUDE ANY EXPENSE FOR INCONVENIENCE OR LOSS OF USE WHILE THE PRODUCT IS BEING REPAIRED OR REPLACED. JST EXPRESSLY DISCLAIMS ANY LIABILITY FOR CONSEQUENTIAL DAMAGED ARISING FROM THE SALE, USE, OR INABILITY TO USE THE PRODUCT. ANY WARRANTY IMPLIED BY LAW, INCLUDING ANY WARRANTY OF

MERCHANTABILITY OR FITNESS, IS EXPRESSLY LIMITED TO THE ONE (5) YEAR WARRANTY TERM FOR THE PARTS ON OUR AMPLIFIERS AND ELECTRONIC PRODUCTS. THE FOREGOING STATEMENTS OF WARRANTY ARE EXCLUSIVE AND IN LIEU OF ALL OTHER REMEDIES. WORKMANSHIP LIFETIME WARRANTY IS LIMITED STRICTLY TO THE ORIGINAL RETAILER PURCHASER OF THE INSTRUMENT REGISTERED WITH JST WITHIN 10 DAYS OF PURCHASE FROM AN AUTHORIZED JST DEALER OR DISTRIBUTOR. JST WILL PAY SHIPPING COSTS TO RETURN THE UNIT TO ITS OWNER WITHIN THE MAINLAND U.S.

THE ABOVE WARRANTY POLICY ONLY APPLIES TO CUSTOMERS IN USA. IF YOU ARE AN INTERNATIONAL CUSTOMER, PLEASE CHECK WITH YOUR DISTRIBUTOR AND THE DEALER IN YOUR COUNTRY FOR WARRANTY MATTERS. WARRANTY ISSUES MUST BE HANDLED THROUGH YOUR DEALER OR DISTRIBUTOR. IF YOU ARE AN INTERNATIONAL CUSTOMER WHO PURCHASED (OR PLAN TO PURCHASE) FROM A US DEALER, WE CAN HANDLE WARRANTY MATTERS DIRECT BUT YOU WILL BE RESPONSIBLE FOR SHIPPING BOTH WAYS. WE ENCOURAGE INTERNATIONAL CUSTOMERS TO PURCHASE THROUGH YOUR LOCAL DISTRIBUTOR OR DEALER FOR THIS REASON. OUR INTERNATIONAL DISTRIBUTORS ARE SET UP TO HANDLE WARRANTY ISSUES IN THEIR RESPECTIVE COUNTRIES. IF YOU DO NOT HAVE AN AUTHORIZED SUHR DEALER IN YOUR COUNTRY, PLEASE CONTACT US DIRECT FOR FURTHER DETAILS.

THANK YOU FOR PURCHASING THE SUHR RIOT DISTORTION PEDAL. THE RIOT DISTORTION IS A VERSATILE HIGH-GAIN DISTORTION PEDAL WITH A WIDE RANGE OF DISTORTION SOUNDS THAT WILL WORK WELL WITH ANY TUBE AMPLIFIER AND FEATURES A 3-WAY VOICING SWITCH FOR MAXIMUM FLEXIBILITY. UTILIZING THE FINEST COMPONENTS AND ROCK SOLID CONSTRUCTION AND ENGINEERED BY DISCERNING MUSICIANS, THE RIOT DISTORTION IS THE ULTIMATE DISTORTION PEDAL THAT DRAMATICALLY EXPANDS THE RANGE OF YOUR TUBE AMPLIFIER. PLEASE TAKE THE TIME TO READ THIS MANUAL TO GET THE MOST OUT OF THE RIOT DISTORTION. THE MORE YOU KNOW ABOUT THE INS AND OUTS OF THIS PEDAL, THE MORE YOU WILL ENJOY ITS BENEFITS AND MAXIMIZE ITS POTENTIAL.

## OVERVIEW:

THE RIOT DISTORTION PEDAL IS A MULTI-VOICE DISTORTION PEDAL. IT HAS UNIQUE FEATURES THAT ARE NOT AVAILABLE IN OTHER PEDALS. IT CAN BE REMOTELY TURNED ON AND OFF BY USING THE FXLINK CONNECTOR DRIVEN FROM AN EXTERNAL SWITCH CLOSURE, PEDAL BOARD, LOOP SWITCHER, OR ANY OTHER CUSTOM INTERFACE.

THE FXLINK FEATURE PROVIDES FOR THE PEDAL'S ABILITY TO POWER UP IN THE ON OR OFF STATE AS WELL AS THE FXLINK STATE.

THE RIOT DISTORTION INCORPORATES A UNIQUE BATTERY MONITOR THAT ALERTS THE USER TO LOW BATTERY CONDITIONS. IN ADDITION, THE BATTERY MONITOR WILL AUTOMATICALLY SWITCH THE PEDAL TO TRUE BYPASS IF THE BATTERY IS TOO LOW FOR THE CIRCUITRY TO OPERATE CORRECTLY. SAY GOODBYE TO SIGNAL CHAIN INTERRUPTIONS AND PANICKY TROUBLE SHOOTING IN THE MIDDLE OF A SONG.

THE RIOT DISTORTION UTILIZES A HIGH EFFICIENCY LED INDICATOR THAT REMAINS AT A CONSTANT BRIGHTNESS EVEN AS THE BATTERY DRAINS. IT CAN OPERATE OVER A WIDE RANGE OF INPUT VOLTAGES AND CONSUMES VERY LOW CURRENT (<10MA) FOR EXTENDED BATTERY LIFE.



# OPERATION:

THE RIOT DISTORTION INCORPORATES THE FOLLOWING CONNECTORS AND CONTROLS:

PLUG YOUR GUITAR INTO THE INPUT JACK AND CONNECT YOUR AMP TO THE OUTPUT JACK. INSTALL A BATTERY (SEE BELOW) OR CONNECT TO A 9VDC POWER SUPPLY. NOTE: AS IN VIRTUALLY ALL PEDALS, CONNECTING A CABLE TO THE INPUT JACK WILL ALSO POWER UP THE PEDAL. REMEMBER TO UNPLUG YOUR CABLE FROM THE INPUT JACK WHEN YOU ARE DONE PLAYING IF YOU ARE USING THE INTERNAL BATTERY. THIS WILL INSURE LONG BATTERY LIFE.

## DISTORTION MODE:

FOR NORMAL OPERATION, PRESS THE ON/OFF SWITCH TO ACTIVATE THE PEDAL. SELECT THE AMOUNT OF DISTOR VIA THE DIST(ORTION) CONTROL. ADJUST THE TONE CONTROL FOR THE DESIRED AMOUNT OF FILTERING. ADJUST THE OUTPUT LEVEL CONTROL.

## CONTROL DESCRIPTION:

**DIST KNOB** - CONTROLS THE AMOUNT OF DISTORTION GAIN

**VOICE SWITCH** - SELECTS MIDRANGE VOICING OF DISTORTION

**LEVEL** - CONTROLS THE OUTPUT LEVEL (VOLUME)

**TONE** - CONTROLS THE EQ OF THE DISTORTION

## TRUE BYPASS / BUFFERED OPERATION:

THE USER CAN SELECT THE OFF STATE (PEDAL BYPASS) TO BE EITHER BUFFERED (UNITY GAIN) OR TRUE BYPASS. IN TRUE BYPASS STATE, THERE IS NO CONNECTION (OTHER THAN GROUND) TO THE SIGNAL. IN ADDITION, THE INPUT OF THE EFFECT IS TERMINATED TO GROUND.

UNPLUG THE CABLES AND REMOVE THE BOTTOM COVER 4 SCREWS. LOCATE THE SMALL SLIDE SWITCH LOCATED ON THE EDGE OF THE PCB BOARD, TOWARD THE ON/OFF SWITCHES. ORIENT THE PEDAL WITH THE ON/OFF SWITCHES AT THE BOTTOM, JACKS AT THE TOP. SLIDING THE SWITCH TOWARD THE LEFT ENABLES TRUE BYPASS MODE (TBP). SLIDING THE SWITCH TOWARD THE RIGHT ENABLES BUFFERED MODE (BUF). REPLACE THE COVER AND SECURE IT WITH THE 4 SCREWS. NOTE: THIS MUST BE DONE WITH THE PEDAL POWERED OFF!

## CONNECTORS:

1/4" INPUT JACK  
1/4" OUTPUT JACK  
9VDC (CENTER NEGATIVE) POWER JACK  
FXLINK 1/8" STEREO CONNECTOR

## CONTROLS:

DIST CONTROL  
LEVEL CONTROL  
TONE CONTROL

## INDICATORS:

DISTORTION ON / OFF LED

## SWITCHES:

DISTORTION ON/OFF FOOTSWITCH  
"VOICE" SWITCH - DISTORTION VOICING

## FXLINK:

THE FXLINK CAN BE UTILIZED TO REMOTELY CONTROL THE PEDAL. IT WORKS AS FOLLOWS: SHORTING BETWEEN THE SHIELD AND THE TIP WILL TURN ON THE DISTORTION MODE.

THE POSITIONS OF THE 3 POSITION FXLINK SWITCH OPERATE AS FOLLOWS:

## TOWARD THE DIST CONTROL:

THE PEDAL WILL POWER UP IN THE ON STATE.

## CENTER:

IF AN EXTERNAL CABLE IS PLUGGED IN, THE PEDAL WILL COME UP IN THE STATE DICTATED BY THE FXLINK. IF NO CABLE IS PLUGGED IN, THE PEDAL WILL POWER UP IN THE BYPASS STATE.

## TOWARD THE LEVEL CONTROL:

THE PEDAL WILL POWER UP IN THE OFF STATE.



## BATTERY MONITOR:

UPON POWERING UP THE PEDAL, THE BATTERY VOLTAGE IS MEASURED. IF THE VOLTAGE IS AT A LOW VOLTAGE (4.5V), THE LED WILL FLASH 3 TIMES TO ALERT THE USER. NORMAL OPERATION WILL THEN RESUME. SHOULD THE BATTERY FAIL COMPLETELY (<4V), THE SHIBA DRIVE WILL SWITCH TO TRUE BYPASS MODE AND THE LED WILL BEGIN TO FLASH. THIS WILL INSURE THAT THE SIGNAL CONTINUES UNINTERRUPTED AND UNDISTORTED. SHOULD THE LED FLASH BECOME TOO ANNOYING, PRESS THE FOOT SWITCH TO TURN IT OFF. IT'S TIME TO REPLACE THE BATTERY.

## BATTERY REPLACEMENT:

TO REPLACE THE BATTERY, UNSCREW THE 4 SCREWS IN THE BOTTOM OF THE PEDAL. REMOVE THE BATTERY FROM THE CLIP AND INSTALL A FRESH ONE. REPLACE THE BATTERY IN ITS COMPARTMENT, CLOSE THE LID, AND SECURE IT WITH THE 4 SCREWS.