

# INDUSTRIAELECTRIC

THANK YOU FOR CHOOSING INDUSTRIAELECTRIC. SYSTEM - 46 NEEDS TO BE POWERED WITH A 9VDC (NEGATIVE CENTER TIP) BOSS, ONE SPOT, STYLE ADAPTOR. WE RECOMMEND THE BEST ADAPTOR POSSIBLE AND SUGGEST A CARL MARTIN POWER JACK.

CURRENT DRAW: 82 MA

## SYSTEM - 46

THE SYSTEM - 46 IS AN ANALOG VCO (VOLTAGE CONTROLLED OSCILLATOR) THAT TRACKS THE INCOMING SIGNAL'S PHASE AND LOCKS ONTO IT. IT THEN SPLITS THE OSCILLATOR SIGNAL INTO A DUAL OR SINGLE HARMONIC VOICE WITH TWO DISTINCT CHANNELS.

SYSTEM - 46 IS COMPRISED OF:

AN ANALOG VCO WITH A SINGLE HARMONIC VOICE OR DUAL HARMONIC VOICES, SPLIT INTO TWO CHANNELS WITH MIX CONTROLS AND EXTENSIVE CONTROL OVER THE SYNTH PARAMETERS

- DUAL AMPLIFICATION STAGES FOR EACH HARMONIC VOICE PATH
- TWO SEPARATE WAVESHAPERS, WITH LDR (LIGHT DEPENDENT RESISTOR) CONTROL AND CUSTOM SPOTLIGHT ATTACHMENT
- HYPER - RINGMODULATOR (ALTERNATE MODULATION) WITH MODULATION PHASE MODES
- PULSER (PRIMITIVE TREMOLO)
- SYSTEM STABILITY CONTROL FOR FULL SYSTEM FUNCTION OR FULL SYSTEM DESTRUCTION

DISCONNECT FUNCTION TO CUT THE INPUT SIGNAL AND USE THE SYSTEM - 46 AS A FULL OUT CHAOS SYNTH ON IT'S OWN

THERE IS AN INFINITE AMOUNT OF SOUNDS IN THIS MACHINE AND IT GOES FAR BEYOND THE ORIGINAL 4046-M

## **SYNTH CONTROLS**

### **SIGNAL 1**

THE OVERALL OUTPUT OF THE FIRST VCO CHANNEL

### **SIGNAL AMP 1**

THE OVERALL AMPLIFICATION OF THE FIRST VCO CHANNEL

### **SIGNAL 2**

THE OVERALL OUTPUT OF THE SECOND VCO CHANNEL

### **SIGNAL AMP 2**

THE OVERALL AMPLIFICATION OF THE SECOND VCO CHANNEL

### **PUSH**

THIS CONTROLS THE ATTACK OF THE INPUT SIGNAL TO THE VCO

### **RELEASE**

THIS CONTROLS THE RELEASE OF THE VCO AND PHASE LOOP AFTER YOUR SIGNAL HAS STOPPED PLAYING, SIMILAR TO THE RELEASE IN A ADSR ENVELOPE

### **LOCK**

THIS CONTROLS HOW THE VCO LOCKS ONTO THE INCOMING SIGNAL, IT RANGES FROM A TIGHT PHASE LOCK TO UNCONTROLLABLE PHASE LOOPING MADNESS

### **SINGLE / DUAL**

THIS TOGGLE SWITCH SELECTS BETWEEN THE VCO'S HARMONIC VOICE'S. YOU CAN HAVE TWO VOICE'S OR A SINGLE VOICE

## WAVESHAPER 1 CONTROLS

(AFFECTS BOTH SIGNAL 1 AND SIGNAL 2!!!)

### DECODE

THIS CONTROLS THE WAVESHAPING AND IS THE MAIN PARAMETER OF THE FIRST WAVESHAPER FOR THE VCO

### RADIUS

THIS CONTROLS THE OVERALL RANGE OF THE DECODE CONTROL AND WAVESHAPING APPLIED TO THE VCO WITH WAVESHAPER 1. THE RANGE OF SOUNDS ARE MASSIVE AND CAN BE USED AS A LOW PASS FILTER WHEN TURNED ALL THE WAY TO THE LEFT

### CONTROL DECODE - (C/D LDR)

THIS TOGGLE SWITCH ENGAGES OR DISENGAGES THE C/D LDR FOR CONTROLLING THE DECODE KNOB WITH YOUR HAND, FOOT OR SPOTLIGHT ATTACHMENT

## WAVESHAPER 2 CONTROLS

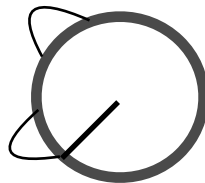
(AFFECTS ONLY SIGNAL 1!!!)

### EXPANSE:

THE EXPANSE CONTROL IS CAPABLE OF A MASSIVE AMOUNT OF SOUNDS AND NEEDS TO BE TWEAKED VERY LIGHTLY TO FIND THE VERY NICE SWEET SPOTS. IT WORKS LIKE A NOTCHED CUTOFF FILTER KNOB, TURN VERY SLOWLY AND HEAR IT'S WIDE DUELLING RANGES AND UNIQUE SOUNDS. THE FIRST VERY SLIGHT TURN FROM 8-9 O'CLOCK UNLOCKS THE FIRST RANGE OF THE EXPANSE, THEN FROM 11-4 O'CLOCK UNLOCKS THE SECOND. THE BEST RANGE FOR ALL THE SOUNDS AND MODES IS BETWEEN 8-9 O'CLOCK, THIS IS ALSO THE RANGE THAT THE LDR IS MOST USEFUL AND ACTIVE, PLEASE TAKE THE TIME TO TWEAK AND FIND THE RANGES AND SOUNDS.

SECOND NOTCH

FIRST NOTCH



EXPANSE

### **SCOPE:**

THE SCOPE KNOB USED IN CONJUNCTION WITH THE EXPANSE KNOB FURTHER OPENS UP THE RANGE OF SOUNDS, FILTERING, AND UNIQUE TONES IN THE CIRCUITS SPECTRUM.

### **CONTROL EXPANSE - (C/E LDR)**

THIS TOGGLE SWITCH ENGAGES OR DISENGAGES THE C/E LDR FOR CONTROLLING THE DECODE KNOB WITH YOUR HAND, FOOT OR SPOTLIGHT ATTACHMENT

### **ALT MOD (ALTERNATE MODULATION)**

THIS TOGGLE SWITCH ENGAGES OR DISENGAGES THE HYPER - RINGMODULATOR  
TURN BOTH THE EXPANSE AND SCOPE KNOBS ALL THE WAY DOWN TO THE LEFT TO HEAR THE HYPER - RINGMODULATOR

### **MOD PHASE (MODULATION PHASE)**

THIS TOGGLE SWITCH ENGAGES OR DISENGAGES A SECONDARY MODULATION MODE AND CAN BE USED WITH OR WITHOUT THE ALT MOD SWITCH BEING ENGAGED. WHEN USED IN ALT MOD MODE, YOU GET TWO SEPARATE CHANNELS OF MODULATION. THERE IS A VOLUME DROP WHEN USING THE MOD PHASE, THIS IS THE NORMAL OPERATION OF THE PEDAL

### **PULSER**

THIS TOGGLE SWITCH ENGAGES THE HARD SQUARE WAVE TREMOLO WHEN THE ALT MOD SWITCH IS ENGAGED AND CAN RANGE FROM VERY SLOW TO AUDIO RANGE SPEEDS. IT NEEDS TO BE TWEAKED WITH THE EXPANSE KNOB TO GET INTO THE PROPER RANGE TO ENGAGE THE PULSER EFFECT

## **SYSTEM CONTROLS**

### **DISCONNECT**

THIS TOGGLE SWITCH ENGAGES OR DISENGAGES THE AUDIO INPUT FROM THE SYSTEM AND GIVES THE USER THE ABILITY TO USE THE MACHINE AS A FULL OUT SELF GENERATING CHAOS SYNTH! IT'S EXTREMELY INTERACTIVE ESPECIALLY WITH THE SPOTLIGHT BEING USED ON THE LDR'S!

### **SYSTEM STABILITY**

THIS CONTROLS HOW WELL THE WHOLE SYSTEM WILL FUNCTION, TURN IT UP TO THE RIGHT FOR FULL STABLE FUNCTIONALITY OR LESS FOR COMPLETE SYSTEM BREAKDOWN AND DESTRUCTION!

### **REACT**

THIS IS THE JACK THAT YOU ATTACH THE INCLUDED SPOTLIGHT TO FOR USE WITH THE LDR'S. IT POWERS AUTOMATICALLY WHEN ATTACHED

### **9V (LIGHTENING BOLT)**

THIS IS THE JACK FOR THE POWER SOURCE, ONLY 9V NEGATIVE TIP POWER CAN BE APPLIED HERE!!!

### **INPUT**

THE MAIN INPUT INTO SYSTEM - 46

### **OUTPUT**

THE MAIN OUTPUT OUT OF SYSTEM - 46

### **BYPASS:**

THIS TRUE BYPASSES THE ENTIRE SYSTEM

## **ATTENTION!**

**IT IS NORMAL FOR THIS PEDAL TO BE NOISY AT TIMES AND QUIET AT OTHERS! SIGNAL DROPOUTS IN CERTAIN SETTINGS CAN OCCUR AND PURE NOISE AND OSCILLATIONS AS WELL! THIS IS A NOISEY PEDAL.**

## **WARRANTY:**

**ALL INDUSTRIALELECTRIC DEVICES COME WITH A 1 YEAR WARRANTY, PARTS AND LABOUR. THE WARRANTY IS VOIDED IF THE DEVICE IS DAMAGED BY ACCIDENTALLY / INTENTIONALLY USING IMPROPER POWER SUPPLIES (DAMAGING OR FRYING THE CIRCUIT) ACCIDENTAL / INTENTIONAL SPILLS (DAMAGING OR FRYING THE CIRCUIT WITH LIQUIDS) OR ACCIDENTAL / INTENTIONAL MISUSE AND ABUSE OF THE DEVICE AND CIRCUIT (PHYSICAL, FILTH, HEAT, COLD, MOISTURE, DIY OR TAMPERING)**

**IF THERE IS A PROBLEM WITHIN THE 1 YEAR WARRANTY, WE DO NOT COVER THE SHIPPING OF THE DEVICE BACK TO US BUT WE DO COVER THE PARTS, LABOUR AND SHIPPING OF THE DEVICE BACK TO YOU. AFTER THE 1 YEAR WARRANTY IF THERE IS A PROBLEM, SHIPPING BOTH WAYS IS NOT COVERED AND THERE WILL BE A PARTS AND LABOUR FEE FOR THE REPAIR.**

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