



9H5QB ESSB Setup



MXL Genesis

The **MXL Genesis** is a masterfully engineered **tube microphone** with features and performance levels found in mics priced thousands of dollars more. From intimate vocal recordings to fast-attacking rap, the Genesis cuts beautifully through the mix with spectacular detail. Recording professionals and musicians are praising the Genesis for its clean highs, warm mids, and tight bottom-end, features attributed in part to the **genuine Mullard 12AT7** tube.



Presonus Eureka

The Eureka's versatility stems in part from its malleable signal flow. With both XLR and 1/4" line outputs, you can connect the Eureka to almost any recording interface, amp, or P.A. system. The EQ can be pre- or post-compressor, and you can bypass each independently. Balanced send and return jacks enable you to insert your favorite outboard processor before the compressor and EQ. Mic XLR in single channel, then OUT into the DEQ2496.



DEQ2496

The **DEQ2496** is an amazing EQ processor! I use only the **Downward Expander LEFT (DYN)** and **Parametric EQ RIGHT (PEQ)**. **NO DEQ. GEQ** is also utilized on **LEFT** channel only. I followed WZ5Q [Voodoo Guru's](#) expert advice for this, whilst my good friend Tony IK1JUO was instrumental in setting up this fine piece of gear.



BBE MaxCom

The **BBE MaxCom** is an easy-to-use dual channel compressor/limiter/gate and **Sonic Maximizer** that provides live or pre-recorded material with clean, distortion free compression. Whether the goal is to control vocals, a stereo mix or just dial in hard limiting to protect your speakers, the MaxCom will accomplish your needs with the reliability and sonic excellence.

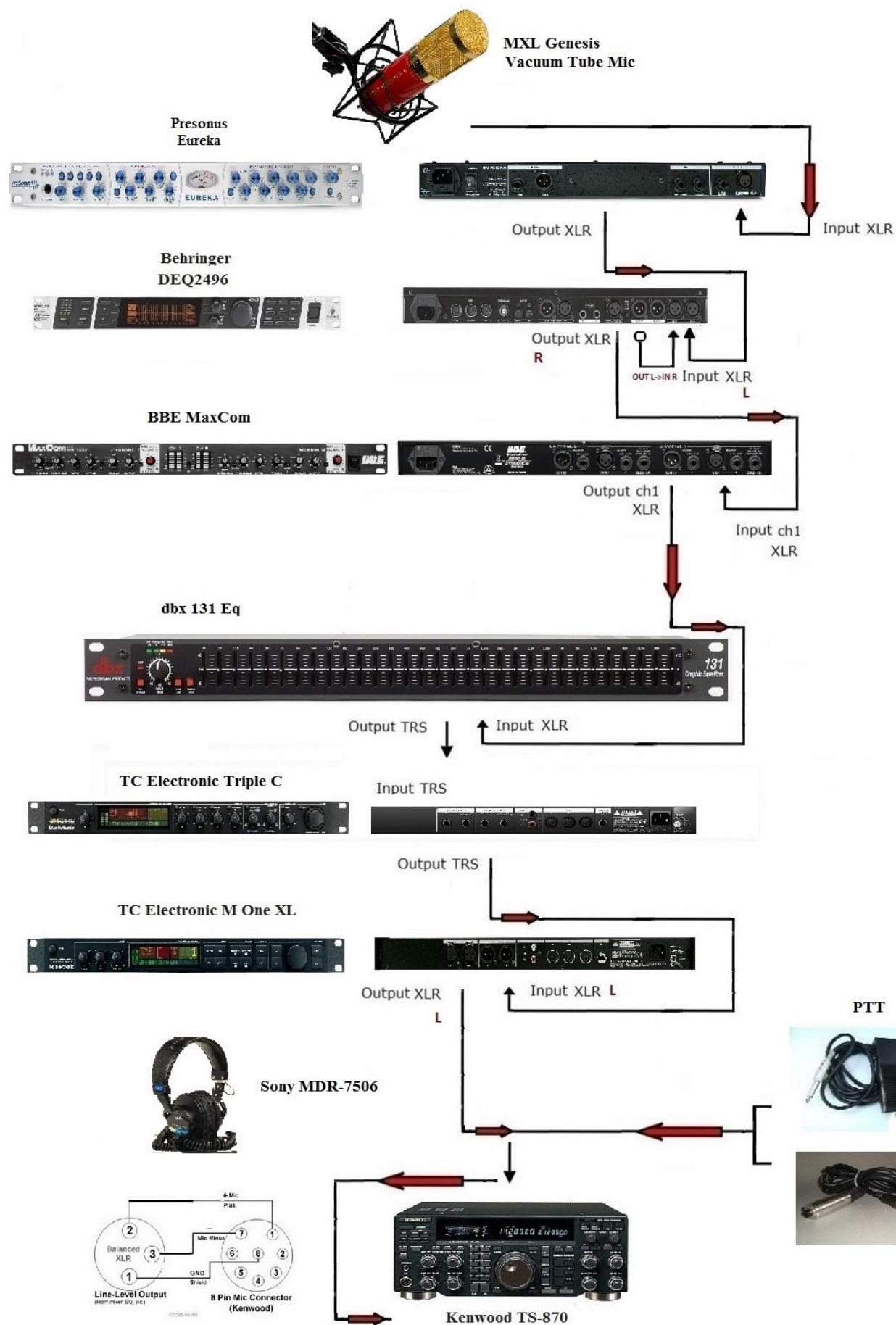


dbx 131 Eq

The **dbx® 2-Series Graphic Equalizer** series have been designed to meet the needs of the most demanding sound reinforcement environments, while offering the simplicity of straightforward controls. The 131 not only offers standard features like single-channel, 31, 1/3 octave bands, ISO frequency centers, +/- 12 dB input gain range, and switchable 50Hz/12 dB per octave low-cut filter, but also includes other insightful features. These features include 20 mm faders; selectable +/-6dB or +/-12dB boost/cut range for precise gain adjustments; XLR, and 1/4" TRS connectors for installation ease; balanced inputs and outputs for quiet operation



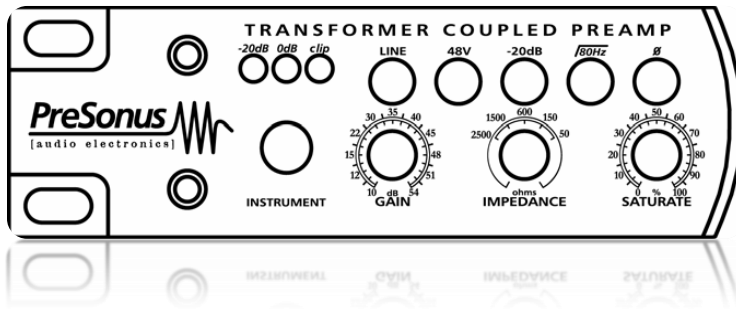
The TC Electronic Triple-C Multi-band **Compressor** & M One XL **Reverb** do a tremendous job in Dynamic Control and bringing out the frequency separation through spectral balancing. The frequency separation is just truly unreal !



SETTINGS for Presonus Eureka



PREAMPLIFIER – CONTROLS



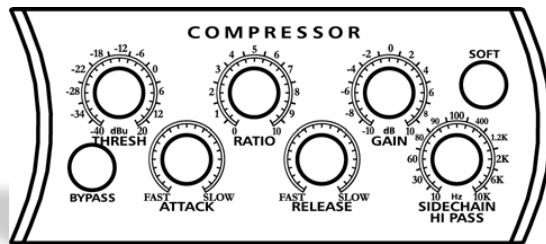
GAIN: **25dB**

IMPEDANCE SELECTOR: **150 Ω**

SATURATION CONTROL: **40**

LINE / +48V / -20dB / : **OFF**

COMPRESSOR



THRESHOLD: **-18**

RATIO: **2:1**

GAIN: **-2 dB**

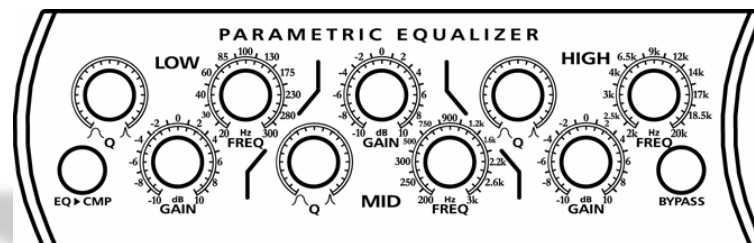
ATTACK: **9 o'clock**

RELEASE: **9 o'clock**

SOFT KNEE: **OFF**

SC-HP: **10**

EQUALIZER



LOW

GAIN: **-6 dB**

FREQUENCY: **80Hz**

Q (Bandwidth): **10 o'clock**

BYPASS: **OFF**

MID

GAIN: **-6dB**

FREQ: **1.5 KHz**

Q(Bandwidth): **9 o'clock**

HIGH

GAIN: **-6 dB**

FREQ: **2.5 KHz**

Q(Bandwidth): **9 o'clock**

SETTINGS for Behringer DEQ2496

ULTRACURVE PRO DEQ2496

ULTRACURVE PRO

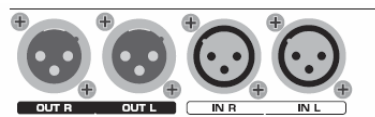
Ultra high-precision digital 24-bit/96 kHz EQ/RTA mastering processor



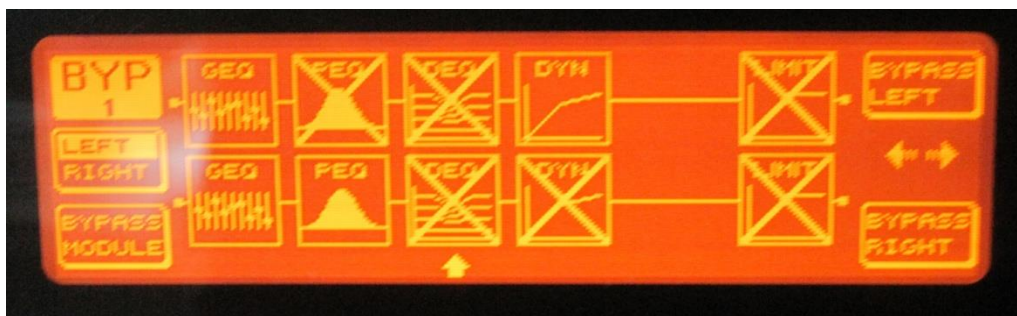
RIGHT Channel (using the **PEQ** for Parametric EQ) – NO DEQ

LEFT Channel (using the **DYN** for Downward Expander) – NO DEQ

LEFT & RIGHT Channel (using the **GEQ** for Graphic Eq)

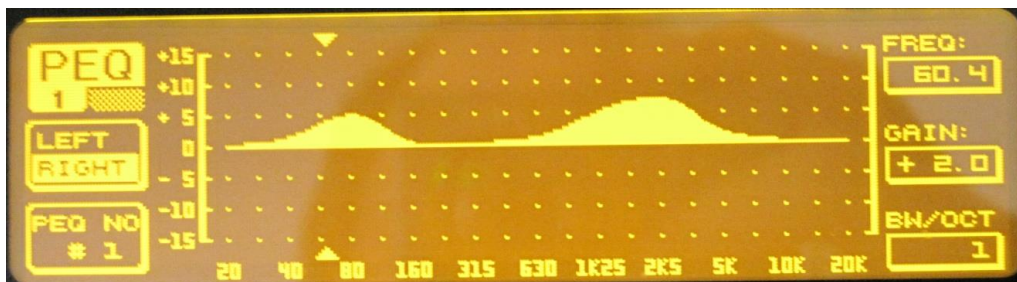


IN L(Downward Exp) -> OUT L(Parametric EQ) -> IN R -> OUT R->



PEQ Settings

RIGHT Channel (using **PEQ** for Parametric EQ) – NO DEQ



PEQ	NO.	MODE	FREQ(Hz)	BW(OCT)	GAIN(dB)	VALUE:
1	# 1	PARAM	60.4	1	+2.0	PARAM
	# 2	PARAM	80.5	1	+2.5	
	# 3	PARAM	100	1	+2.0	
	# 4	PARAM	160	1	-1.0	
	# 5	PARAM	1002	1	+1.0	
	# 6	PARAM	1261	1	+1.5	
	# 7	PARAM	1607	1	+2.0	
	# 8	PARAM	2000	1	+2.5	
	# 9	PARAM	2517	1	+2.5	
	#10	PARAM	3133	1	+3.0	

Fig. 1

DYN Settings

LEFT Channel (using **DYN** for Downward Expansion) – NO DEQ

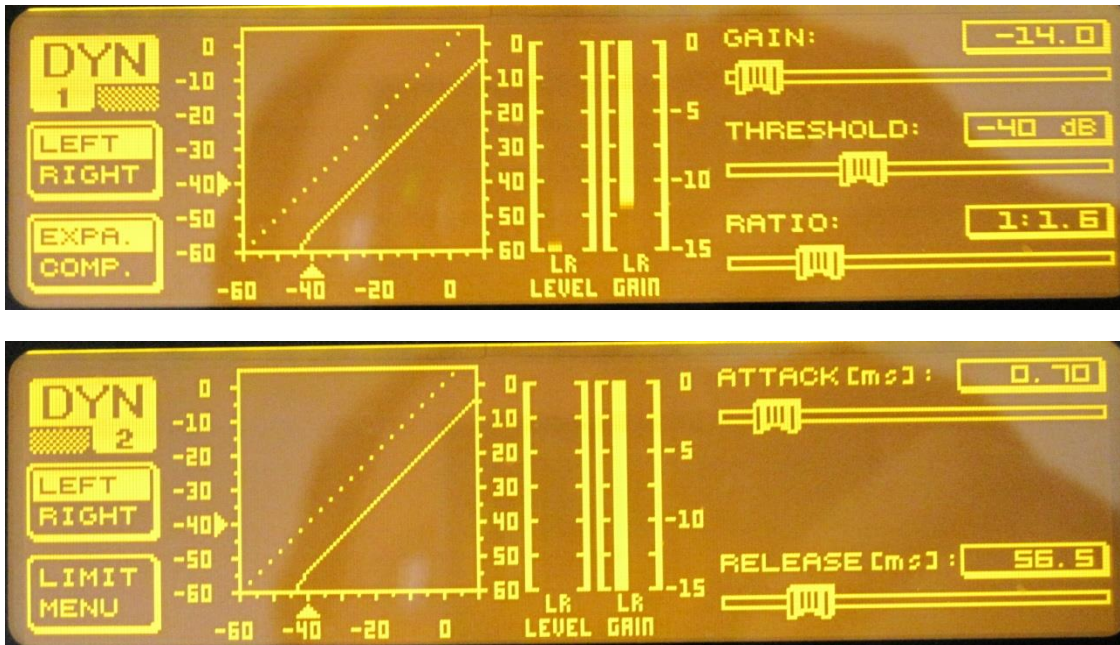


Fig. 2a

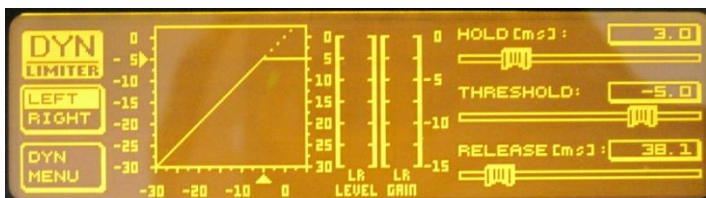


Fig. 2b

GEQ Settings

LEFT Channel (using the **GEQ** for Graphic Eq)

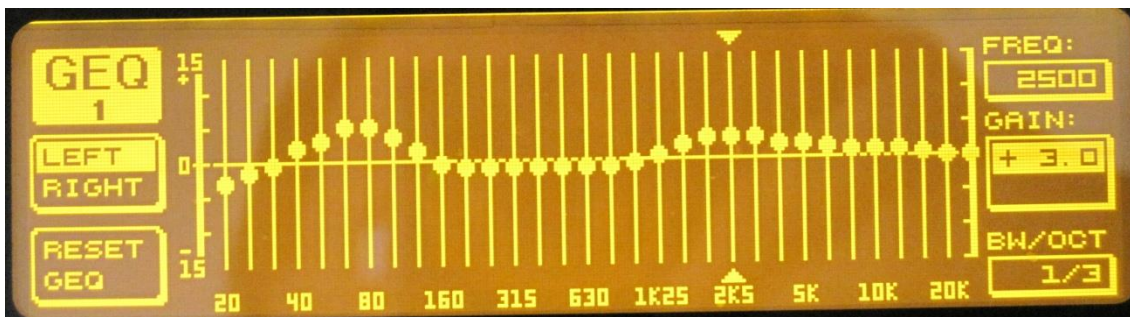


Fig. 3

PEQ – Basic Settings

As a starting point, be sure that none of the *INPUT* meter peaks are over **-3db** in *INPUT* gain, especially into the DEQ2496. Set the EQ into **PEQ (RIGHT Channel)** mode (Fig. 1), these are settings for a basic starting point, it will require tweaking for optimum sound. This is almost impossible to do without actually monitoring it 'on air' and possibly using headphones.

Give these a try and see how it sounds. If you have a real bassy voice then you might have to reduce **Param 1**(Fig.1) freq and perhaps reduce a bit of the gain.

If you have a lot of MIDS in your voice, then you might have to reduce **Param 3 & 4**(Fig. 1) filters.

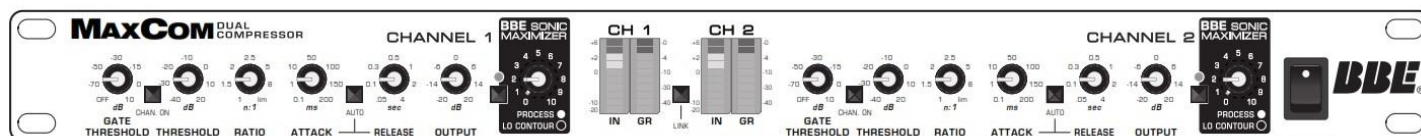
The HIGHS will be the hardest to set. You want to push enough to get some brilliance and clarity, but without having a Compressor, you won't be able to push a lot of them without causing 'tearing' and 'sibilance' in your signal. The secret here is to keep the bandwidth narrow, and just adjust the gains. The frequencies listed in (Fig. 1) should be perfect on the Highs.

Param 7(Fig. 1) filter is for 'brittleness' reduction. It should be good if set as shown.

Param 2 filter is for boominess and boxiness. It should also be good as shown, however if your voice fundamentals are from 100Hz to 200Hz, try reducing the gain another -5db to a total of -20db.

Lastly, keep an eye on **Param 6** filter. If it sounds too 'nasal', then reduce this filter gain to 0 and see if it goes away.....if it helps then reduce it further.

SETTINGS for BBE Maxcom



• INITIAL SETTINGS FOR THE EXPANDER/GATE SECTION

CONTROL	SETTINGS
GATE THRESHOLD control	-50 dB

Begin with very low threshold levels so that the signal can pass through the unit unaffected. Now turn the control clockwise until all unwanted noise is removed and only the sound of the desired instrument can be heard.

• INITIAL SETTINGS FOR THE COMPRESSOR SECTION

CONTROL	SETTINGS
THRESHOLD control	-20 dB
RATIO control	1:1
AUTO switch	OUT
OUTPUT CONTROL	0dB
IN/OUT switch	IN
ATTACK	0.1
RELEASE	0.5

Rotate the THRESHOLD control counterclockwise until an appropriate amount of gain reduction is indicated on the GAIN REDUCTION meter. This operation will be accompanied by an audible drop in output level. The OUTPUT control should now be turned clockwise to reinstate the output level. The level of the unprocessed and the processed signal can be compared by pressing the IN/OUT switch.

Final adjustments of the controls can then be made to suit your particular requirements, including the RATIO, ATTACK and RELEASE controls. The AUTO function provides program dependent dynamic processing which suits most standard uses. If a "condensed" or "wider" sound processing technique is required the attack and release times can also be manually adjusted.

The experienced user will be in a position to specify parameters while in bypass mode and thus realize the effect before the unit is actually switched into operation. This is important in live situations, where a signal needs to be managed efficiently by the engineer without the convenience of continual A/B comparison.

BBE ON/OFF SWITCH

This switch engages the BBE Process as indicated by the green LED. When in the "OUT" position the green LED will not illuminate indicating that the BBE Process has been disengaged.

BBE PROCESS CONTROL +3

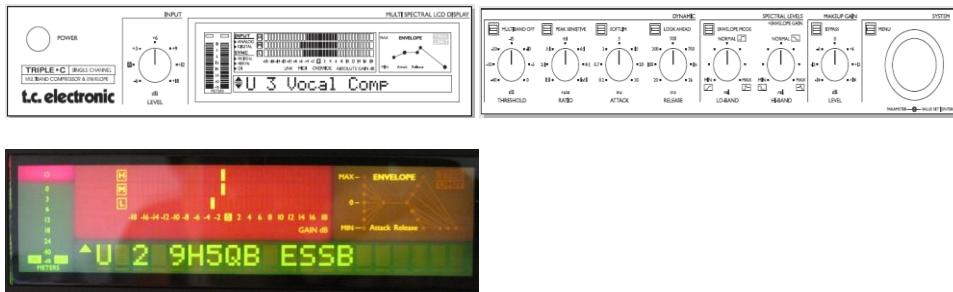
When the knob is in its minimum position, completely counterclockwise, no process is taking effect and the circuit is in its noise suppression mode. Turning the knob clockwise will introduce the BBE Process. Adjust the knob to mix the desired amount of process to suit your taste. Use the BBE as an extension of the tone controls. Generally a good place to start the BBE process is to set the knob to its 12 o'clock position, then adjust accordingly.

BBE LO CONTOUR CONTROL 5

This control is a low frequency adjustment for the BBE Process. It provides a boost of 10dBu when turned to its maximum position (clockwise) at 50Hz. When turned to its minimum position (counter-clockwise) no adjustment is taking place.



SETTINGS for TC Electronic Triple C



I/O Menu:

Press the “Menu” pushbutton – “Select” is displayed
 Turn the “Value Set/Enter” knob to select the “I/O’ Menu” option
 Push the “Value Set/Enter” knob to enter the Menu – You are in the I/O Menu

SET THESE PARAMETERS AS FOLLOWS

Turn the outer “Parameter” knob to change Parameters in menu
 Turn the inner “Value Set/Enter” knob to change the settings of the parameters
 Push the inner “Value Set/Enter” knob to select the changed setting

INPUT	-	ANALOG
CLOCK	-	48kHz
OUT RANGE	-	14dB
OUT LEVEL	-	0dB
DIG IN GAIN	-	0dB
DITHER	-	OFF
STATUSBITS	-	S/PDIF
MIDI CHAN	-	1
MIDI CC	-	ON
PRG BANK	-	User
BULK DUMP	-	<ENTER>
SYSEX ID	-	0
LINK	-	OFF
EXPANDER	-	ON
VIEW ANGLE	-	32

A few words about the Front Panel Controls for the Multi-Band Compressor.

The Threshold, Ratio, Attack, and Release Controls on the front of the unit only control the MID Band values. The Triple-C slaves the LO and HI Bands to the MID Band front controls. This is the reason a lot of people don't like this unit. What they failed to realize was that there are more settings in the "Edit Menu" to individually control the Threshold values of the LO, MID, and HI Band Compressors. This in conjunction with the Front Panel Controls (especially the LO-BAND and HI-BAND RELEASE Controls) gives enough of a combination to make unbelievable results. It just takes a lot of "Tweakin"...Ha Ha!

PROGRAM SETUP:

Press the "Menu" pushbutton – "Select" is displayed
Turn the inner "Value Set/Enter" knob to select the "Recall" option
Push the inner "Value Set/Enter" knob to enter the Menu – You are in the Preset Menu
Turn the inner "Value Set/Enter" knob to select "F1 Triple-C Comp" option
Push the inner "Value Set/Enter" knob to select this option
You are now in the Triple-C Comp Program.

We will change the Parameters and save this as your own program in the User Presets Memory.

Change the Parameters as follows:

FRONT PANEL CONTROLS:

From the left of the unit to the right. These will of course be adjusted later for correct levels.

KNOBS:

(Upon adjusting the knobs, there is an "OVERRIDE" indicator on the display that will blink. You must move the control and wait for the blinking to stop before it will allow you to change the parameter.)

INPUT LEVEL -	-3 dB
THRESHOLD -	-14 dB
RATIO -	1.12:1 rate
ATTACK -	10.0 ms
RELEASE -	20ms
LO-BAND OUTPUT -	14dB
HI-BAND OUTPUT -	6 dB
MAKEUP LEVEL-	-3 dB

PUSHBUTTONS:

MULTIBAND OFF	-	Disengaged, Light is not lit
PEAK SENSITIVE	-	Disengaged, Light is not lit
SOFTLIM	-	Engaged, Light is lit
LOOK AHEAD	-	Engaged, Light is lit
ENVELOPE MODE	-	Disengaged, Light is not lit
BYPASS	-	Disengaged, Light is not lit
MENU	-	Disengaged, Light is not lit

Now we will save this Program to the User Preset Memory.

Press the “Menu” pushbutton – “Select” is displayed

Turn the inner “Value Set/Enter” knob to select the “Store” option

Push the inner “Value Set/Enter” knob to enter the Menu – You are in the STORE Menu

The Next Empty User Preset will be displayed and Flash on and off

Turn the inner “Value Set/Enter” knob to select which User Memory you would like to Store

Push the inner “Value Set/Enter” knob to select this location

The “U#” will now Flash and the caption “Triple-C Comp” will be displayed with a flashing underscore underneath the “T” of “Triple-C”

Turn the inner “Value Set/Enter” knob to change the letter over the flashing underscore.

Turn the outer “Parameter” knob to change which letter the flashing underscore is under

Continue to change the caption to your liking.

Push the inner “Value Set/Enter” knob TWICE to save the program

Now we will change the parameters in the “**Edit Menu**”.

Press the “Menu” pushbutton – “Select” is displayed

Turn the inner “Value Set/Enter” knob to select the “EDIT MENU” option

Push the inner “Value Set/Enter” knob to enter the Menu – You are in the EDIT Menu

“COMP STYLE” will be displayed.

Turn the inner “Value Set/Enter” knob to select the “**FLAT**” option

Turn the outer “Parameter” knob to change to the next menu Caption

“LO-THR” will be displayed

Turn the inner “Value Set/Enter” knob to select “**-3db**”

Turn the outer “Parameter” knob to change to the next menu Caption

“MID-THR” will be displayed

Turn the inner “Value Set/Enter” knob to select “**-3db**”

Turn the outer “Parameter” knob to change to the next menu Caption

“HI-THR” will be displayed

Turn the inner “Value Set/Enter” knob to select “**-12db**”

Turn the outer “Parameter” knob to change to the next menu Caption

“DRG” will be displayed

Turn the inner “Value Set/Enter” knob to select “**3**”

Turn the outer “Parameter” knob to change to the next menu Caption

“HI X-OVER” will be displayed

Turn the inner “Value Set/Enter” knob to select “**2.00 kHz**”

Turn the outer “Parameter” knob to change to the next menu Caption

“LO X-OVER” will be displayed

Turn the inner “Value Set/Enter” knob to select “**200 Hz**”

Turn the outer “Parameter” knob to change to the next menu Caption

“EXT SIDE” will be displayed

Turn the inner “Value Set/Enter” knob to select “**off**”

NOW DON'T TOUCH ANYTHING!

Now we will save these changes to the User Preset Memory. It must be performed in this order or you will lose the Edit Menu Setting changes.

Press the “Menu” pushbutton – your Preset name is shown on the display
Press the “Menu” pushbutton again – “Select” is displayed
Turn the inner “Value Set/Enter” knob to select the “Store” option
Push the inner “Value Set/Enter” knob to enter the Menu – You are in the STORE Menu
Your User Preset Name and Number will be displayed and Flash on and off
Push the inner “Value Set/Enter” knob TWICE to save the program
The display will indicate “Preset Stored”

Go back into the “EDIT MENU” to verify that your changes were saved.

Exit by pressing the “**Menu**” pushbutton.

Hint! If you ever change ANY settings on the Triple-C, you will have to save/store them in the memory to make them permanent. I have readjusted the front controls several times and forgot to store them. The next time I went to the User Preset and Reloaded it, of course all my new settings were gone because of my failure to Save/Store them.

FINAL ADJUSTMENTS:

Well, you are all set to do the final adjustments now.

With all the other units in the rack set up the way you prefer, including all the Gain Levels, The first thing to set is the “Input Level”. Set this control for an indication of –3 to –6db with occasional peaks of 0db.

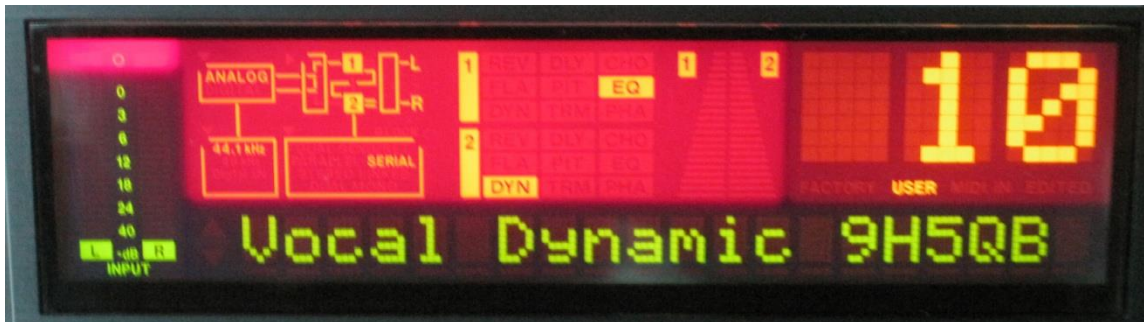
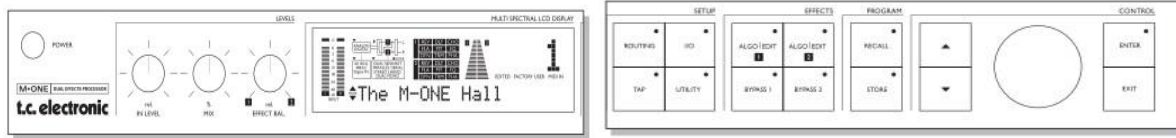
Depending on your voice characteristics, how many harmonics you are introducing into the mix, and other rack equipment settings will determine how you set the THRESHOLD, LO-BAND, and HI-BAND controls. Also the LO, MID, and HI THRESHOLD settings in the “EDIT MENU”.

You will have to use your ears, but you should notice a remarkable improvement immediately.

The last thing to set is the “Makeup Output Level”. Set this control for an indication of –3dB to –6dB with occasional peaks of 0dB.

Don’t forget to Save/Store the changes in the Memory. I usually make another User Preset to store my in process changes and leave the first one as a baseline.

SETTINGS for TC Electronic M One XL



We will change the Parameters of **Preset 75 Vocal Dynamic** and save this as your own program in the User Presets Memory. Change the Parameters as follows:

FRONT PANEL CONTROLS:

From the left of the unit to the right. These will of course can be adjusted later for correct levels

KNOBS:

IN LEVEL – 9 o'clock

MIX % - Noon

EFFECT BAL – 1 o'clock

ROUTING : Serial

I/O SETUP

- Input source: **Analog**
- Clock: **44.1kHz**
- Out Range: **20dBu**
- Out level: **0dB**
- Dig inGain: **0dB**
- Dither: **OFF**

UTILITY

- Midi Channel: **2**
- MIDI CC: **ON**
- Sys-Ex ID: **0**
- Bypass: **0% MIX**
- Display View angle: **32**

ALGO/EDIT 1

FX 1: PARAMETRIC EQUALIZER

Low Shelving Band:

Low Freq: **81.75Hz**
Low Slope: **6dB/OCT**
Low Gain: **4.0dB**

Parametric Filters:

Freq 1 – **72.86Hz**
BndWdth 1 – **0.16 OCT**
Gain 1 – **3.5 dB**
Freq 2 – **81.75Hz**
BndWdth 2 – **0.16 OCT**
Gain 2 – **3 dB**
Freq 3 – **100Hz**
BndWdth 3 – **0.16 OCT**
Gain 3 – **3 dB**

High Shelving Band:

High Freq – **2.51kHz**
High Slope – **12db/OCT**
High Gain – **6.0dB**
FX Level – **60%**

ALGO/EDIT 2 – DYNAMICS

FX 2: DE-ESSER

Threshold **-12dB**
Ratio: **2.5:1**
Frequency: **5.01kHz**
Attack: **1.4ms**
Release: **100ms**
FX Level: **100%**