

AndyR Patches From BR1600

Introduction (Andrew Russe 07/07/2021)

This started as a document to record my Boss BR1600 Patch settings so that I could set up FX chains to replicate them in my DAW set-up.

Then someone asked me whether I would mind sharing them. Not at all! ☺ ☺ ☺

I've added some explanation for each but, *in addition*, do remember in all cases that the original signal level will change how an effect works. Insert effects (these patches) are connected internally as follows on the BR1600, according to the LOCATION you choose:

- INPUT(S): *After* the INPUT SENS and *before* LEVEL CALIBRATION and INPUT LEVEL
- TRACK(S): *After* Track Compressor and *before* Track EQ and FADER
- MASTER: *Before* Master FADER and *after* everything else

For this reason, and so that I could use my patches without adjusting them too much, I always ensured the following:

- When recording, I used INPUT SENS to set channel input level(s) as hot as I could without clipping the inputs of the machine.
- When bouncing, I always normalised the tracks to be bounced.

I used my patches, tweaked as necessary for the song/application, as follows:

Recording Instruments

[Bass Squashr \(MULTI CH / 8CH COMP EQ\) - User \(U\) Patch](#)

[Guit Squashr \(MULTI CH / 8CH COMP EQ\) - User \(U\) Patch](#)

[1-8 Limiter \(MULTI CH / 8CH COMP EQ - User \(U\) Patch](#)

Recording Vocals

[VOCAL COMP 1 \(MIC\) - Preset \(P\) Patch](#)

[VOCAL COMP 2 \(MIC\) - Preset \(P\) Patch](#)

[1-8 Limiter \(MULTI CH / 8CH COMP EQ - User \(U\) Patch](#)

Bouncing

[1-8 Limiter \(MULTI CH / 8CH COMP EQ - User \(U\) Patch](#)

[9-16 Limiter \(MULTI CH / 8CH COMP EQ - User \(U\) Patch](#)

Mastering

[MIX DOWN \(MASTERING TOOL KIT\) - Preset \(P\) Patch](#)

[PRE MASTER \(MASTERING TOOL KIT\) - Preset \(P\) Patch](#)

[LIVE MIX \(MASTERING TOOL KIT\) - Preset \(P\) Patch](#)

[POP MIX \(MASTERING TOOL KIT\) - Preset \(P\) Patch](#)

For both recording/bouncing, remember to set the effect LOCATION - you'll get very different results depending on where you put these insert effects. Note that the LOCATION options on offer for both recording and bouncing are controlled by the INPUT SELECT (GUITAR/BASS, VOCAL, MULTI-TRACK, STEREO TRACKS).

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Bass Squashr (MULTI CH / 8CH COMP EQ) - User (U) Patch

I used this for recording every bass part on the BR1600 since late 2013 or so.

It sounds a bit naff if you monitor this signal while playing the part - I got used to it - but in the mix, it just worked immediately, no more "how do I get the bass louder/quieter/fatter/whatever" issues.

It worked on "amped" or "DI'd" bass. I usually did the former (output from a POD XTLive with speaker/mic simulation switched on)

If I forgot to use it, or didn't use it because I was doing an arrangement rehearsal/demo and didn't realise the performance would be the final version, I would apply this to the recorded track later before mixing (usually bouncing to another track enabling me to use the MULTI CH / 8CH COMP EQ effects for something else, see 1-8 Limiter or 9-16 Limiter).

During mixing, I might apply more compression/eq on the bass part, depending on the mix requirements. Sometimes it didn't need it.

Settings

Applied to the Input or recorded Track, as appropriate.

LOW CUT

On/Off	:	ON
Invert	:	OFF
Freq	:	50Hz

COMP

On/Off	:	ON
Threshold	:	-12dB
Knee	:	MEDIUM
Ratio	:	4.0:1
Attack	:	45ms
Release	:	50ms
Level	:	1.0db

EQ

On/Off	:	ON
High Type	:	SHLV
High Gain	:	-3dB
High Freq	:	1.00kHz
Mid Gain	:	-6dB
Mid Freq	:	200Hz
Mid Q	:	1.0
Low Type	:	SHLV
Low Gain	:	-12dB
Low Freq	:	50Hz
Level	:	+6dB

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Guit Squashr (MULTI CH / 8CH COMP EQ) - User (U) Patch

I used this for recording nearly every electric guitar part on the BR1600 since late 2013 or so.

I applied it to the incoming signal and recorded the effected signal. This was usually a DI'd amp with speaker/mic simulation (Yamaha THR 100 HD, Vox Tonelab LE, Line6 POD XTLive).

If I forgot to use it, or didn't use it because I was doing an arrangement rehearsal/demo and didn't realise the performance was the final version, I would apply this to the recorded track later before mixing (usually bouncing to another track enabling me to use the MULTI CH / 8CH COMP EQ effects for something else, see 1-8 Limiter or 9-16 Limiter).

Originally, I was using it with the EQ switched on. But I kept finding I was wanting to shave the top off the entire mix anyway, so shaving the guitars on the way in as well was causing me problems.

I was also cutting more bottom end originally, as well as the Lo cut. But I found that the amount I wanted to cut, and the frequency to cut at, varied according to the guitar/amp and the actual part being recorded.

So I switched the EQ off here and applied what I wanted later (EG I might complementary EQ some guitars when bouncing them to a stereo submix, then I'd EQ the submix during a bounce for the main mix)

Settings

Applied to the Input or recorded Track, as appropriate.

LOW CUT

On/Off	:	ON
Invert	:	OFF
Freq	:	50Hz

COMP

On/Off	:	ON
Threshold	:	-6dB
Knee	:	HARD
Ratio	:	8.0:1
Attack	:	45ms
Release	:	50ms
Level	:	0.0db

EQ

On/Off	:	OFF
High Type	:	SHLV
High Gain	:	-3dB
High Freq	:	16.00kHz
Mid Gain	:	0dB
Mid Freq	:	200Hz
Mid Q	:	1.0
Low Type	:	SHLV
Low Gain	:	0dB
Low Freq	:	50Hz
Level	:	0dB

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VOCAL COMP 1 (MIC) - Preset (P) Patch

This was the main vocal "preamp" I used for recording vocals.

I tried editing versions of it, but this just worked "out-of-the-box".

I used it when I was recording VOCAL with one mic in INPUT 2. I'd record the effected signal.

Usually, I'd try VOCAL COMP 1 and VOCAL COMP 2 and choose the one that sounded best for the song I was recording and the mic I was using.

During mixing, I'd apply more compression/eq on the vocal, depending on the mix requirements.

Settings

Applied to the incoming Vocal on INPUT 2.

COMP (COSM COMP/LIMITER)

On/Off	:	ON
Type	:	Rack160
Threshold	:	78
Ratio	:	8:1
Level	:	37

DES (DE-ESSER)

On/Off	:	OFF
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ENH (ENHANCER)

On/Off	:	ON
Sensitivity	:	30
Frequency	:	2.0kHz
Mix Level	:	20
LowMix Level	:	0
Level	:	60

EQ (4BAND EQUALIZER)

On/Off	:	OFF
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NS (NOISE SUPPRESSOR)

On/Off	:	ON
Threshold	:	45
Release	:	80

FV (FOOT VOLUME)

On/Off	:	OFF
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DLY (DELAY)

On/Off	:	OFF
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AndyR Patches From BR1600

VOCAL COMP 2 (MIC) - Preset (P) Patch

This was the other vocal "preamp" I used for recording vocals. Sometimes, not often, it seemed better than VOCAL COMP 1.

Again, I tried editing versions of it, but this just worked "out-of-the-box".

I used it when I was recording VOCAL with one mic in INPUT 2. I'd record the effected signal.

Usually, I'd try VOCAL COMP 1 and VOCAL COMP 2 and choose the one that sounded best for the song I was recording and the mic I was using.

During mixing, I'd apply more compression/eq on the vocal, depending on the mix requirements.

Settings

Applied to the incoming Vocal on INPUT 2.

COMP (COSM COMP/LIMITER)

On/Off	:	ON
Type	:	VtgRack
Threshold	:	37
Ratio	:	8:1
Attack Time	:	50
Release Time	:	50
Level	:	50

DES (DE-ESSER)

On/Off	:	OFF
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ENH (ENHANCER)

On/Off	:	ON
Sensitivity	:	30
Frequency	:	2.0kHz
Mix Level	:	25
LowMlx Level	:	0
Level	:	60

EQ (4BAND EQUALIZER)

On/Off	:	OFF
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NS (NOISE SUPPRESSOR)

On/Off	:	ON
Threshold	:	50
Release	:	80

FV (FOOT VOLUME)

On/Off	:	OFF
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DLY (DELAY)

On/Off	:	OFF
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1-8 Limiter (MULTI CH / 8CH COMP EQ - User (U) Patch

This was based on the Preset (P) Patch "8ch Limiter". I created two User (U) Patches, "1-8 Limiter" and "9-16 Limiter".

I used this one for the following:

- Low Cut and Limiting on incoming signals when recording MULTI-TRACK with multiple mics (Eg live vocal and stereo acoustic guitar)
- Applying the same to recorded tracks (eg I regularly used it to get a Low Cut onto a lead vocal take recorded with VOCAL COMP 1 or VOCAL COMP 2)
- Used in conjunction with Track COMP and EQ to provide additional Compression and/or Equalisation during a bounce (eg you can apply Serial Compression or 4 band EQ without having to bounce the track more than once).

Settings

Applied to Inputs 1-8 or recorded Tracks 1-8, as appropriate.

The User patch itself was set as follows (Low Cut and Limiting) for all channels/tracks. I'd adjust it as required in the related Song patch for however I was using it in the Song at that moment.

I'd link the stereo pair if I wanted stereo compression/limiting across two mono tracks. This would happen near the end when I had more stereo submixes to combine than I had stereo tracks available.

LOW CUT

On/Off	:	ON
Invert	:	OFF
Freq	:	40Hz

COMP

On/Off	:	ON
Threshold	:	-1dB
Knee	:	HARD
Ratio	:	INF:1
Attack	:	0.1ms
Release	:	50ms
Level	:	1.0db

EQ

On/Off	:	OFF
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AndyR Patches From BR1600

9-16 Limiter (MULTI CH / 8CH COMP EQ - User (U) Patch

This was based on the Preset (P) Patch "8ch Limiter". I created two User (U) Patches, "1-8 Limiter" and "9-16 Limiter".

I used this one as follows:

- To apply a Low Cut on a submix on stereo tracks, 9/10, 11/12, 13/14, or 15/16 during a bounce.
- In conjunction with Track EQ to provide additional Equalisation on a submix on stereo tracks, 9/10, 11/12, 13/14, or 15/16 during a bounce.
- To provide any limiting / compression I wanted on a submix on stereo tracks, 9/10, 11/12, 13/14, or 15/16 during a bounce. Note that adjusting the Track COMP on these would mess up the Track COMP settings on the mono tracks 1-8. I tried not to use Track COMP on 9-16 unless I really had to - so this Patch was very useful for compressing stereo submixes.

Settings

Applied to recorded Tracks 9-16, as appropriate.

The User patch itself was set as follows (Low Cut and Limiting) for all channels/tracks. I'd adjust it as required in the related Song patch for however I was using it in the Song at that moment.

Note: I'd link the stereo pair if I wanted stereo compression/limiting.

LOW CUT

On/Off	:	ON
Invert	:	OFF
Freq	:	40Hz

COMP

On/Off	:	ON
Threshold	:	-1dB
Knee	:	HARD
Ratio	:	INF:1
Attack	:	0.1ms
Release	:	50ms
Level	:	1.0db

EQ

On/Off	:	OFF
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AndyR Patches From BR1600

MIX DOWN (MASTERING TOOL KIT) - Preset (P) Patch

I would adjust this Preset to taste, according to the mix I was "mastering".

Settings

EQ (4BAND EQUALIZER)

On/Off : OFF

CUT (BASS CUT FILTER)

On/Off : OFF

EH (ENHANCER)

On/Off : OFF

IN (INPUT)

Input Gain : +3dB

Delay Time : 10ms

Split Freq L : 315Hz

Split Freq H : 3.15kHz

EXP (EXPANDER)

On/Off : OFF

COMP (COMPRESSOR)

On/Off : ON

CmpL:Thres : -9dB

CmpL:Ratio : 1:3.20

CmpL:Attack : 30ms

CmpL:Release : 690ms

CmpM:Thres : -9dB

CmpM:Ratio : 1:2.00

CmpM:Attack : 20ms

CmpM:Release : 500ms

CmpH:Thres : -15dB

CmpH:Ratio : 1:2.00

CmpH:Attack : 20ms

CmpH:Release : 301ms

MIX (MIXER)

Low Level : 0dB

Mid Level : 0dB

High Level : 0dB

LM (LIMITER)

On/Off : OFF

OUT (OUTPUT)

Level : 0dB

Soft Clip : ON

Dither : OFF

AndyR Patches From BR1600

PRE MASTER (MASTERING TOOL KIT) - Preset (P) Patch

I would adjust this Preset to taste, according to the mix I was "mastering".

Settings

EQ (4BAND EQUALIZER)

On/Off : OFF

CUT (BASS CUT FILTER)

On/Off : OFF

EH (ENHANCER)

On/Off : OFF

IN (INPUT)

Input Gain : +3dB

Delay Time : 10ms

Split Freq L : 315Hz

Split Freq H : 3.15kHz

EXP (EXPANDER)

On/Off : OFF

COMP (COMPRESSOR)

On/Off : ON

CmpL:Thres : -9dB

CmpL:Ratio : 1:3.20

CmpL:Attack : 7ms

CmpL:Release : 722ms

CmpM:Thres : -9dB

CmpM:Ratio : 1:2.00

CmpM:Attack : 7ms

CmpM:Release : 500ms

CmpH:Thres : -14dB

CmpH:Ratio : 1:2.00

CmpH:Attack : 7ms

CmpH:Release : 301ms

MIX (MIXER)

Low Level : -2dB

Mid Level : 0dB

High Level : -1dB

LM (LIMITER)

On/Off : OFF

OUT (OUTPUT)

Level : 0dB

Soft Clip : ON

Dither : OFF

AndyR Patches From BR1600

LIVE MIX (MASTERING TOOL KIT) - Preset (P) Patch

I would adjust this Preset to taste, according to the mix I was "mastering".

Settings

EQ (4BAND EQUALIZER)

On/Off : OFF

CUT (BASS CUT FILTER)

On/Off : OFF

EH (ENHANCER)

On/Off : OFF

IN (INPUT)

Input Gain : 0dB

Delay Time : 10ms

Split Freq L : 125Hz

Split Freq H : 4.0kHz

EXP (EXPANDER)

On/Off : OFF

COMP (COMPRESSOR)

On/Off : ON

CmpL:Thres : -17dB

CmpL:Ratio : 1:4.00

CmpL:Attack : 0ms

CmpL:Release : 50ms

CmpM:Thres : -15dB

CmpM:Ratio : 1:1.80

CmpM:Attack : 0ms

CmpM:Release : 50ms

CmpH:Thres : -15dB

CmpH:Ratio : 1:4.00

CmpH:Attack : 0ms

CmpH:Release : 50ms

MIX (MIXER)

Low Level : 0dB

Mid Level : -1dB

High Level : +1dB

LM (LIMITER)

On/Off : OFF

OUT (OUTPUT)

Level : 0dB

Soft Clip : ON

Dither : OFF

AndyR Patches From BR1600

POP MIX (MASTERING TOOL KIT) - Preset (P) Patch

I would adjust this Preset to taste, according to the mix I was "mastering".

Settings

EQ (4BAND EQUALIZER)

On/Off : OFF

CUT (BASS CUT FILTER)

On/Off : OFF

EH (ENHANCER)

On/Off : OFF

IN (INPUT)

Input Gain : +3dB

Delay Time : 10ms

Split Freq L : 200Hz

Split Freq H : 2.5kHz

EXP (EXPANDER)

On/Off : OFF

COMP (COMPRESSOR)

On/Off : ON

CmpL:Thres : -7dB

CmpL:Ratio : 1:4.00

CmpL:Attack : 2ms

CmpL:Release : 500ms

CmpM:Thres : -7dB

CmpM:Ratio : 1:4.00

CmpM:Attack : 2ms

CmpM:Release : 199ms

CmpH:Thres : -9dB

CmpH:Ratio : 1:4.00

CmpH:Attack : 1ms

CmpH:Release : 99ms

MIX (MIXER)

Low Level : -1dB

Mid Level : -2dB

High Level : -1dB

LM (LIMITER)

On/Off : ON

Threshold : -3dB

Attack : 0ms

Release : 99ms

OUT (OUTPUT)

Level : 0dB

Soft Clip : ON

Dither : OFF