Orban Optimod-FM 8300 Audio Processor Setup/Parameters Worksheet

Version 2.1

			Location	Location	Location	Location	Location
			Preset	Preset	Preset	Preset	Preset
Parameter	**Range**	**Unit**					
SYSTEM SETUP							
I/O CALIB							
INPUT	Analog, Digital, Dig+J17						
ANL IN CALIB							
Ref. Level VU	-9.0... +13.0	dBu					
Ref. Level PPM	-2.0... +20.0	dBu					
Right Channel Balance	-3.0… +3.0	dB					
DIG IN CALIB							
Ref. Level VU	-30.0d... -10.0	dBFS					
Ref. Level PPM	-23.0d... -3.0	dBFS					
Right Channel Balance	-3.0... +3.0	dB					
ANLG OUT CALIB							
AO 100%	-6.0...+24.0	dBu					
AO Pre-Emphasis	Flat, Pre-e						
AO Feeds	Xmitter, Monitor						
DIG OUT CALIB							
DO 100%	-20.0… 0.0	dBFS					
DO Pre-Emphasis	Flat, Pre-e, J.17, Pre+J17						
DO Rate	32, 44.1, 48, 88.2, 96	kHz					
DO Sync	Internal, External						
Word Length	14… 24						
Dither	In, Out						
Format	AES, SPDIF						
Out Source	FM, HD						
STEREO ENCODER							
Composite 1 Level	-12.3… +12.0	dBu					
Composite 2 Level	-12.3... +12.0	dBu					
Mode	Stereo, Pilot Off, mono-L, mono-R, mono-SUM						
Crosstalk Test	operate, MtoS P on, MtoS P off, StoM P on, StoM P off						
Pilot Level	6.0%...12.0%						
Processing Pre-emphasis	75, 50	uS					
ITU-412	-2.0... +10.0, Off	dB					
19k Reference	0, 90, 180, 270	deg					
TEST							
Bypass Gain	-18.0… 25.0	dB					
Tone Frequency	16… 15,000	Hz					
Tone Level/Modulation	0… 121%						
Tone Channels	L+R, L-R, Left, Right						
Pilot	On, Off						
Time Date and ID							

Daylight Time Begins Month							
Daylight Time Begins Week							
Standard Time Begins Month							
Standard Time Begins Week							
Station ID							
Time Sync							
Protocol	SNTP, Time Pro						
Sync Period	Off, 8 Hrs, 24 Hrs						
Offset	+12 … -12	Hrs					
Time Server Address							
NETWORK & REMOTE							
PC Connect	Direct, Modem						
Modem Init String							
IP Address							
Subnet Mask							
Gateway Address							
IP Port							
REMOTE INTERFACE							
Remote Contact 1							
Remote Contact 2							
Remote Contact 3							
Remote Contact 4							
Remote Contact 5							
Remote Contact 6							
Remote Contact 7							
Remote Contact 8							
EXT AGC							
EXT AGC	No, Yes						
MODULATION REDUCTION							
Mod. Reduction 1	-20.0%…0.0%						
Mod. Reduction 2	-20.0%…0.0%						
FINAL CLIP							
Final Clip	active, defeat						
METER Mode							
Meter Fode	MPX Power, HD GR						
ADVANCED MODIFY							
Stereo Enhancer							
Amount	0.0... 10.0						
Ratio Limit	70%...100%						
AGC							
AGC Off/On	Off, On						
AGC Drive	-10... 25	dB					
Crossover	Linear, Allpass, LiNoDly						
Master Attack	0.2... 6.0	s					
Bass Attack	1.0... 10.0	s					
Release	0.5... 20.0	dB/s					
Bass Release	1.0... 10.0	s					
Bass Threshold	-12.0…+2.5	dB					
Master Delta Threshold	-6.0…6.0	dB					

Bass Delta Threshold	-6.0…6.0	dB					
AGC Ratio	inf:1, 4:1, 3:1, 2:1,						
Idle Gain	-10.0…10.0	dB					
AGC Gate Threshold	Off, -44... -15	dB					
Window Size	-25.0.. 0.0	dB					
Window Release	0.5... 20.0	dB/s					
Maximum Delta GR	0.0... 24.0, Off	dB					
AGC Bass Couple	0…12, Off	dB					
AGC Matrix	L/R, sum/dif						
Equalizer							
Phase Rotator	Out, In						
30 Hz High Pass Filter	Out, In						
DJ Bass Boost (not in 2 Band)	Off, 0… 10	dB					
Bass Gain	0 … 12	dB					
Bass Freq	80... 500	Hz					
Bass Slope	6,12,18	dB/Oct					
Low Gain	-10.0… 10.0	dB					
Low Freq	20.0... 500.0	Hz					
Low Width	4.0... 0.8	octave					
Mid Gain	-10.0... +10.0	dB					
Mid Freq	250… 6000	Hz					
Mid Width	4.0… 0.8	octave					
High Gain	-10.0...10.0	dB					
High Freq	1.0... 15.0	kHz					
High Width	4.0... 0.8	octave					
Brilliance (not in 2 Band)	0.0... 6.0						
High Frequency Enhancer	0... 15						
Multiband (5 Band)							
Multiband Drive	0... 25	dB					
Multiband Release	Slow, Slow2, Med, Med2, Mfast, Mfast2, Fast						
Down Expander Threshold	Off, -18.0… +12.0	dB					
B5 Down Expander Delta Threshold	-18.0… +12.0	dB					
Down Expander Stereo Couple	Off, On						
MB Gate Threshold	Off, -44.0… -15.0	dB					
B1/B2 Crossover	100, 200	Hz					
Band 2>1 Coupling	0... 100%	%					
Band 2>3 Coupling	0... 100%	%					
Band 3>2 Coupling	0... 100%	%					
Band 3>4 Coupling	0... 100%	%					
Band 4>5 Coupling	0... 100%	%					
Compressors (5 Band)							
B1 Attack	4.0... 50.0, Off	ms					
B2 Attack	4.0... 50.0, Off	ms					
B3 Attack	4.0... 50.0, Off	ms					
B4 Attack	4.0... 50.0, Off	ms					
B1 Delta Release	-6... 6						
B2 Delta Release	-6... 6						
B3 Delta Release	-6... 6						
B4/5 Delta Release	-6... 6						

B1 Compression Threshold	-16.0... 0.0, Off	dB					
B2 Compression Threshold	-16.0... 0.0, Off	dB					
B3 Compression Threshold	-16.0... 0.0, Off	dB					
B4/5 Compression Threshold	-16.0... 0.0, Off	dB					
B1 Limiter Attack	0%... 100%	%					
B2 Limiter Attack	0%... 100%	%					
B3 Limiter Attack	0%... 100%	%					
B4/5 Limiter Attack	0%... 100%	%					
Bandmix (5 Band)							
B1 Output Mix	-3.0... + 3.0	dB					
B2 Ouput Mix	-3.0... + 3.0	dB					
B3 Output Mix	-3.0... + 3.0	dB					
B4 Output Mix	-3.0... + 3.0	dB					
B5 Output Mix	-3.0... + 3.0	dB					
B1 On/Off	On, Off						
B2 On/Off	On, Off						
B3 On/Off	On, Off						
B4 On/Off	On, Off						
B5 On/Off	On, Off						
Two Band (2 Band)							
2B Drive	-10.0... 25	dB					
2B Master Attack	4.0... 50.0, Off	ms					
2B Bass Attack	4.0... 50.0, Off	ms					
2B Release	0.5… 20.0	dB/s					
2B Master Compression Threshold	-15.0…0.0, Off	dB					
2B Bass Compression Threshold	-10.0... 5.0, Off	dB					
2B Crossover	Linear, No Dly						
2B Bass Couple	0... 100%	%					
2B Gate Threshold	Off, -44… -15	dB					
HD Processing							
HD EQ Gain	-6.0… 0.0	dB					
HD EQ Freq	2.0… 20.2	kHz					
HD Limit Drive	0.0…+12.0 dB	dB					
Distortion (5 Band but not in UL)							
Bass Clip Threshold	-6.00… 0.00	dB					
Bass Clip Mode	Soft, Med, Hard, LLHard						
Speech Bass Clip Threshold	-6.00… 0.00	dB					
Bass Clip Shape	0.0… 10.0						
High Frequency Limiter	Off, -23.75... 0.00	dB					
HF Clip Threshold	-16.0... 0.0, Off	dB					
Multiband Limiter Drive (MB Clipping)	-4.0... 5.0	dB					
MB Limit Threshold	-3.0... 6.0, Off	dB					
Multiband Limit Speech Threshold	-6.0... 0.0	dB					
Maximum Distortion Control	0.0... 18.0	dB					
Lookahead	In, Out, Auto						
Distortion (UL presets only)							
Bass Clip Threshold	-6.00… 0.00	dB					

Bass Clip Shape	0.0… 10.0						
High Frequency Limiter	Off, -23.75... 0.00	dB					
B5 Clip Thr (called HF Clip Thr in 5B)	-16.00... 0.00, Off	dB					
Multband Limiter Drive (MB Clipping)	-4.0... 5.0	dB					
B4 Clip Thr (called MB Limit Thr in 5B)	-16.00... 0.00, Off	dB					
Distortion Band (2 Band)							
Bass Clip Threshold	-6.00… 0.00	dB					
Bass Clip Mode	Soft, Med, Hard, LLHard						
Speech Bass Clip Threshold	-6.0… 0.0	dB					
2B High Frequency Limiting	-4.0... 2.0	dB					
2B Clipping	-4.0... 5.0	dB					
Multiband Limit Threshold	-3.0... 6.0, Off	dB					
Multiband Limit Speech Threshold	-6.0... 0.0	dB					
Maximun Distortion Control	0.0... 18.0	dB					
2B 6-15 kHz HF Limiter	Off, -23.75... 0.00	dB					
Lookahead	0.0... 5.0	ms					
Final Clipping							
Overshoot Compensator Drive	-2.0... 2.0	dB					
Final Clip Drive	-3.0... +5.0	dB					
Composite Limiter Drive	Off, 0.0... 3.0	dB					
MPX Power Offset	-12.0…0.0	dB					
BASIC & FULL MODIFY							
Stereo Enhancer							
Amount	0.0... 10.0						
Ratio Limit	70%...100%						
Equalizer							
Bass Gain	0 … 12	dB					
Bass Freq	80... 500	Hz					
Bass Slope	6,12,18	dB/Oct					
Low Gain	-10.0… 10.0	dB					
Low Freq	20.0... 500.0	Hz					
Low Width	4.0... 0.8	octave					
Mid Gain	-10.0... +10.0	dB					
Mid Freq	250… 6000	Hz					
Mid Width	4.0… 0.8	octave					
High Gain	-10.0...10.0	dB					
High Freq	1.0... 15.0	kHz					
High Width	4.0... 0.8	octave					
High Frequency Enhancer	0... 15						
Brilliance (not in 2 Band)	0.0... 6.0						
DJ Bass Boost (not in 2 Band)	Off, 0… 10	dB					
30 Hz High Pass Filter	Out, In						
Phase Rotator	Out, In						
Less/More							
Less More	1... 10						
Full Control (5 Band)							
AGC Off/On	Off, On						

AGC Drive	-10... 25	dB					
AGC Release	0.5... 20.0	dB/s					
AGC Gate Threshold	Off, -44... -15	dB					
AGC Bass Couple	0%... 100%	%					
AGC Meter	Master, Bass, Delta (not saved; always defaults back to Master)						
Multiband Drive	0... 25	dB					
Multiband Release	Slow, Slow2, Med, Med2, Mfast, Mfast2, Fast						
MB Down Expander Threshold	Off, -6.0… +12.0	dB					
MB Gate Threshold	Off, -44.0… -15.0	dB					
Multiband Limit Drive	-4.0... 5.0	dB					
Band 2>1 Coupling	0... 100%	%					
Band 2>3 Coupling	0... 100%	%					
Band 3>2 Coupling	0... 100%	%					
Band 3>4 Coupling	0... 100%	%					
Band 4>5 Coupling	0... 100%	%					
B1 Compression Threshold	-16.0... 0.0, Off	dB					
B2 Compression Threshold	-16.0... 0.0, Off	dB					
B3 Compression Threshold	-16.0... 0.0, Off	dB					
B4/5 Compression Threshold	-16.0... 0.0, Off	dB					
B1 Output Mix	-3.0... + 3.0	dB					
B2 Ouput Mix	-3.0... + 3.0	dB					
B3 Output Mix	-3.0... + 3.0	dB					
B4 Output Mix	-3.0... + 3.0	dB					
B5 Output Mix	-3.0... + 3.0	dB					
Bass Clip Threshold	-6.0… 0.0	dB					
Bass Clip Shape	0.0… 10.0						
Bass Clip Mode (not in UL)	Soft, Med, Hard, LLHard						
B5 Clip Thr (UL only)	-16.00... 0.00, Off	dB					
B4 Clip Thr (UL only)	-16.00... 0.00, Off	dB					
HF Clip Threshold (called B5 Clip in UL)	-16.0... 0.0, Off	dB					
MB Limit Threshold (called B4 Clip in UL)	-3.0... 6.0, Off	dB					
Final Clip Drive	-3.0... +5.0	dB					
Composite Limiter Drive	Off, 0.0... 3.0	dB					
HD Limit Drive	0.0…+12.0 dB	dB					
Multiplex Offset	-12.0… 0.0	dB					
Less More	1... 10						
Parent Preset							
Full Control (2 Band & Protect Only)							
AGC On/Off	On, Off						
AGC Drive	-10... 25	dB					
AGC Release	0.5... 20.0	dB/s					
AGC Gate Threshold	Off, -44... -15	dB					
AGC Bass Couple	0%... 100%	%					
AGC Meter	Master, Bass, Delta (not saved; always defaults back to Master)						
2B Drive	-10.0... 25	dB					
2B Release	0.5… 20.0	dB/s					
2B Gate Threshold	Off, -44… -15	dB					
2B Bass Couple	0... 100%	%					

Bass Clip Threshold	-6.0… 0.0	dB					
2B Clipping	-4.0... 5.0	dB					
2B High Frequency Limiting	-4.0... 2.0	dB					
Final Clip Drive	-3.0... +5.0	dB					
Composite Limiter Drive	Off, 0.0... 3.0	dB					
HD Limit Drive	0.0…+12.0 dB	dB					
Multiplex Offset	-12.0… 0.0	dB					
Less More	1... 10						
Parent Preset							