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You can read the recommendations in the user guide, the technical guide or the installation guide for ROLAND FANTOM S. You'll find the answers to all your questions on the ROLAND FANTOM S in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ROLAND FANTOM S
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Operating instructions ROLAND FANTOM S
Instructions for use ROLAND FANTOM S
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The screenshot shows the title page of the 'Parameter List' for the Roland Fantom-S and Fantom-S88. It features the Roland logo on the left, the 'MIDI2' logo in the top right, and the product names 'Fantom-S' and 'Fantom-S88' in a stylized font. Below the product names is a black header with 'Parameter List' in white. The main content includes a thank-you message and a detailed table of contents listing sections like Patch Parameter, Rhythm Set Parameter, Performance Parameter, Rhythm Group Parameter, Sample Parameters, System Parameters, Effects List, Error Messages, About MIDI, and MIDI Implementation with their respective page numbers. A copyright notice for 2003 Roland Corporation is at the bottom.



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Manual abstract:

.....
.....
.....

.....
.....
.....

.....
.....
.. 13 Sample Parameters ...

.....
.....

.....
.....
.....

.....
.....
.....

.....
..... 13 System Parameters...

.....
.....
.....

.....
.....
.....

.....
.....
.....

... 14 Effects List

.....
.....
.....

.....
.....
.....

.....
..... @@@@ @@@@43 Error Messages...

.....
.....
.....

.....
.....
.....

.... 44 About MIDI.....

.....
.....
.....

..... 45 MIDI Implementation .

..... 46 Copyright © 2003 ROLAND CORPORATION All rights reserved. No part of this publication may be reproduced in any form without the written permission of ROLAND CORPORATION. Parameter List Patch Parameter General Group (Owner's Manual; p.

43) Parameter Patch Name Patch Category Patch Level Patch Pan Patch Priority Octave Shift Patch Coarse Tune Patch Fine Tune Stretch Tune Depth Analog Feel Cutoff Offset Resonance Offset Attack Time Offset Release Time Offset Velocity Sens Offset * Specify when writing. Value space, AZ, az, 09, ! " # \$ % & ' () * + , - . / : ; < = > ? @ [\ ^ _ ` | } 0127 L64063R LAST, LOUDEST -3 +3 -48 +48 -50 +50 OFF, 13 0127 -63 +63 -63 +63 -63 +63 -63 +63 -63 +63 Analog Feel Depth Wave Group (Owner's Manual; p. 45) Parameter Wave Group Wave Bank Value INT, EXP, SAMP, MSAM When the wave group is EXP: AD, When the wave group is SAMP: PRST, USER, CARD, When the wave group is MSAM: USER, CARD ----, 11228 (The upper limit will depend on the wave group.) ----, 11228 (The upper limit will depend on the wave group.) -6, 0, +6, +12 OFF, ON OFF, ON 14 016 Wave No. L (Mono) Wave No. R Wave Gain Wave Tempo Sync FXM Switch FXM Color FXM Depth Wave Number L (Mono) Wave Number R TMT Group (Owner's Manual; p. 46) Parameter Structure Type 1 & 2, 3 & 4 Booster 1 & 2, 3 & 4 Key Fade Lower Key Range Lower Key Range Upper Key Fade Upper TMT Velocity Control Velo Fade Lower Velo Range Lower Velo Range Upper Velo Fade Upper TMT Control Sw Booster Gain 1 & 2, 3 & 4 Keyboard Fade Width Lower Keyboard Range Lower Keyboard Range Upper Keyboard Fade Width Upper TMT Velocity Control Switch Velocity Fade Width Lower Velocity Range Lower Velocity Range Upper Velocity Fade Width Upper TMT Control Switch Value 110 0, +6, +12, +18 0127 C-1UPPER LOWERG9 0127 OFF, ON, RANDOM, CYCLE 0-127 1UPPER LOWER127 0127 OFF, ON 2 Parameter List Pitch Group (Owner's Manual; p. 49) Parameter Tone Coarse Tune Tone Fine Tune Random Pitch Depth Pitch Key Follow Value -48 +48 -50 +50 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1100, 1200 -200, -190, -180, -170, -160, -150, -140, -130, -120, -110, -100, -90, -80, -70, -60, -50, -40, -30, -20, -10, 0, +10, +20, +30, +40, +50, +60, +70, +80, +90, +100, +110, +120, +130, +140, +150, +160, +170, +180, +190, +200 0 +48 -480 -63 +63 -63 +63 -63 +63 -100, -90, -80, -70, -60, -50, -40, -30, -20, -10, 0, +10, +20, +30, +40, +50, +60, +70, +80, +90, +100 Bend Range Up Bend Range Down P-Env V-Sens P-Env T1 V-Sens P-Env T4 V-Sens P-Env Time KF Pitch Bend Range Up Pitch Bend Range Down Pitch Envelope Velocity Sensitivity Pitch Envelope Time 1 Velocity Sensitivity Pitch Envelope Time 4 Velocity Sensitivity Pitch Envelope Time Key Follow Pitch Env Group (Owner's Manual; p. 50) Parameter P-Env Depth P-Env Time 14 P-Env Level 04 Pitch Envelope Depth Pitch Envelope Time 14 Pitch Envelope Level 04 Value -12 +12 0127 -63 +63 TVF Group (Owner's Manual; p. 50) Parameter Filter Type Cutoff Frequency Resonance Cutoff Key Follow Value OFF, LPF BPF, HPF, PKG, LPF2, LPF3 0127 0127 -200, -190, -180, -170, -160, -150, -140, -130, -120, -110, -100, -90, -80, -70, -60, -50, -40, -30, -20, -10, 0, +10, +20, +30, +40, +50, +60, +70, +80, +90, +100, +110, +120, +130, +140, +150, +160, +170, +180, +190, +200 FIXED, 17 -63 +63 -63 +63 FIXED, 17 -63 +63 -63 +63 -63 +63 Cutoff Frequency Key follow Cutoff V-Curve Cutoff V-Sens Resonance V-Sens F-Env V-Curve F-Env V-Sens F-Env T1 V-Sens F-Env T4 V-Sens Cutoff Frequency Velocity Curve Cutoff Velocity Sensitivity Resonance Velocity Sensitivity TVF Envelope Velocity Curve TVF Envelope Velocity Sensitivity TVF Envelope Time 1 Velocity Sensitivity TVF Envelope Time 4 Velocity Sensitivity TVF Env Group (Owner's Manual; p. 52) Parameter F-Env Depth F-Env Time KF F-Env Time 14 F-Env Level 04 TVF Envelope Depth TVF Envelope Time Key Follow TVF Envelope Time 14 TVF Envelope Level 04 Value -63 +63 -100, -90, -80, -70, -60, -50, -40, -30, -20, -10, 0, +10, +20, +30, +40, +50, +60, +70, +80, +90, +100 0127 0127 3 Parameter List TVA Group (Owner's Manual; p. 53) Parameter Tone Level Level V-Curve Level V-Sens Bias Level Bias Position Bias Direction Tone Pan Pan Key follow Random Pan Depth Alter Pan Depth TVA Level Velocity Curve TVA Level Velocity Sensitivity Value 0127 FIXED, 17 -63 +63 -100, -90, -80, -70, -60, -50, -40, -30, -20, -10, 0, +10, +20, +30, +40, +50, +60, +70, +80, +90, +100 C-1G9 LOWER, UPPER, LO&UP, ALL L64063R -100 +100 063 L63063R Alternate Pan Depth TVA Env Group (Owner's Manual; p. 54) Parameter A-Env T1 V-Sens A-Env T4 V-Sens A-Env Time KF A-Env Time 14 A-Env Level 13 TVA Envelope Time 1 Velocity Sensitivity TVA Envelope Time 4 Velocity Sensitivity TVA Envelope Time Key Follow TVA Envelope Time 14 TVA Envelope Level 13 Value -63 +63 -63 +63 -100, -90, -80, -70, -60, -50, -40, -30, -20, -10, 0, +10, +20, +30, +40, +50, +60, +70, +80, +90, +100 0127 0127 Output Group (Owner's Manual; p. 55) Parameter Patch Out Assign Tone Out Assign Tone Out Level Tone Chorus Send (Send Level (Output=MFX)) Tone Reverb Send (Send Level (Output=MFX)) Tone Chorus Send (Send Level (Output=non MFX)) Tone Reverb Send (Send Level (Output=non MFX)) Patch Output Assign Tone Output Assign Tone Output Level Tone Chorus Send Level Tone Reverb Send Level Tone Chorus Send Level Tone Reverb Send Level Value MFX, A, B, 14, TONE MFX, A, B, 14 0127 0127 0127 0127 LFO1/2 Group (Owner's Manual; p. 56) Parameter Waveform Rate Rate Detune Offset Delay Time Delay Time KF Fade Mode Fade Time Key Trigger Pitch Depth TVF Depth TVA Depth Pan Depth LFO1/LFO2 Waveform LFO1/LFO2 Rate LFO1/LFO2 Rate Detune LFO1/LFO2 Offset LFO1/LFO2 Delay Time LFO1/LFO2 Delay Time Key Follow LFO1/LFO2 Fade Mode LFO1/LFO2 Fade Time LFO1/LFO2 Key Trigger LFO1/LFO2 Pitch Depth LFO1/LFO2 TVF Depth LFO1/LFO2 TVA Depth LFO1/LFO2 Pan Depth Value SIN, TRI, SAW-U, SAW-D, SQR, RND, BND-U, BND-D, TRP S&H, CHAOS, VSIN, STEP 0127, Note 0127 -100, -50, 0, +50, +100 0127 -100, -90, -80, -70, -60, -50, -40, -30, -20, -10, 0, +10, +20, +30, +40, +50, +60, +70, +80, +90, +100 ON <, ON >, OFF <, OFF > 0127 OFF, ON -63 +63 -63 +63 -63 +63 -63 +63 4 Parameter List Step LFO Group (Owner's Manual; p.



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57) Parameter Step Type Step 116 LFO Step Type LFO Step 116 Value TYPE 1, TYPE 2 -36 +36 Solo/Porta Group (Owner's Manual; p. 58) Parameter Mono/Poly Legato Switch Legato Retrigger Portamento Switch Portamento Mode Portamento Type Portamento Start Portamento Time Value MONO, POLY OFF, ON OFF, ON OFF, ON NORMAL, LEGATO RATE, TIME PITCH, NOTE 0127 Legato Retrigger Switch Misc Group (Owner's Manual; p. 60) Parameter Tone Delay Mode Tone Delay Time Tone Env Mode Tone Rx Bender Tone Rx Expression Tone Rx Hold-1 Tone Rx Pan Mode Tone Redamper Sw Value NORM, HOLD, OFF-N, OFF-D 0127, Note NO SUS, SUST OFF, ON OFF, ON OFF, ON CONT, K-ON OFF, ON Tone Receive Pitch Bend Switch Tone Receive Expression Switch Tone Receive Hold Switch Tone Receive Pan Mode Tone Redamper Switch CTRL 14 Group (Owner's Manual; p. 61) Parameter Matrix Control 14 Source Value OFF, CC0131, 3395, PITCH BEND, AFTERTOUC, SYS CTRL1SYS CTRL4, VELOCITY, KEYFOLLOW, TEMPO, LFO1, LFO2, PITCH ENV, TVF ENV, TVA ENV OFF, PITCH, CUTOFF, RESONANCE, LEVEL, PAN, OUTPUT LEVEL, CHORUS SEND, REVERB SEND, LFO1 PITCH DEPTH, LFO2 PITCH DEPTH, LFO1 TVF DEPTH, LFO2 TVF DEPTH, LFO1 TVA DEPTH, LFO2 TVA DEPTH, LFO1 PAN DEPTH, LFO2 PAN DEPTH, LFO1 RATE, LFO2 RATE, PIT ENV A-TIME, PIT ENV D-TIME, PIT ENV R-TIME, TVF ENV A-TIME, TVF ENV D-TIME, TVF ENV R-TIME, TVA ENV A-TIME, TVA ENV D-TIME, TVA ENV R-TIME, TMT, FXM DEPTH, MFX CTRL1, MFX CTRL2, MFX CTRL3, MFX CTRL4, TIME -63 +63 OFF, ON, REVERSE CTRL Destination 14 Matrix Control Destination 14 CTRL Sens 14 CTRL Switch 14 Matrix Control Sens 14 Tone Control Switch 14 5 Parameter List Effect Group (Owner's Manual; p. 175) Parameter MFX Type MFX Output Level MFX Chorus Send Level MFX Reverb Send Level MFX Output Assign Source 14 Destination 14 Sens 14 Chorus Chorus Type Chorus Output Select Chorus Level Chorus Output Assign Reverb Reverb Type Reverb Level Reverb Output Assign Multi-Effects Type Multi-Effects Output Level Multi-Effects Chorus Send Level Multi-Effects Reverb Send Level Multi-Effects Output Assign Multi-Effects Control Source 14 Multi-Effects Control Destination 14 Multi-Effects Control Sens 14 Value 00 THROUGH77 CHORUS->FLANGER (Fantom-S), 78 SYMPATHETIC RESONANCE (Fantom-S88) 0127 0127 0127 A, B OFF, CC0131, 3395, PITCH BEND, AFTERTOUC, SYS CTRL1SYS CTRL4 -63 +63 0 (Off), 1 (Chorus), 2 (Delay), 3 (GM2 Chorus) MAIN, REV, M+R 0127 A, B 0 (Off), 1 (Reverb), 2 (SRV Room), 3 (SRV Hall), 4 (SRV Plate), 5 (GM2 Reverb) 0127 A, B 6 Parameter List Rhythm Set Parameter General Group (Owner's Manual; p. 67) Parameter Rhythm Set Name Rhythm Tone Name Rhythm Level Assign Type Mute Group Tone Env Mode Tone Pitch Bend Range Tone Receive Expression Tone Receive Hold-1 Tone Receive Pan Mode One Shot Mode Aftershow Time Ctrl Sens Rhythm Set Level * Specify when writing. Value space, AZ, az, 09, ! " # \$ % & ' () * + , - . / : ; < = > ? @ [] ^ _ { | } space, AZ, az, 09, ! " # \$ % & ' () * + , - . / : ; < = > ? @ [] ^ _ { | } 0127 MULTI, SINGLE OFF, 131 NO-SUS, SUSTAIN 048 OFF, ON OFF, ON CONTINUOUS, KEY-ON OFF, ON -63 +63 Rhythm Tone Envelope Mode Rhythm Tone Pitch Bend Range Rhythm Tone Receive Expression Switch Rhythm Tone Receive Hold-1 Switch Rhythm Tone Receive Pan Mode Aftershow Time Control Sensitivity Wave Group (Owner's Manual; p. 68) Parameter Wave Group Wave Bank Value INT, EXP, SAMP, MSAM When the wave group is EXP: AD, When the wave group is SAMP: PRST, USER, CARD, When the wave group is MSAM: USER, CARD ----, 11228 (The upper limit will depend on the wave group.) ----, 11228 (The upper limit will depend on the wave group.) -6, 0, +6, +12 OFF, ON OFF, ON 14 016 Wave No. L (Mono) Wave No.

R Wave Gain Wave Tempo Sync FXM Switch FXM Color FXM Depth Wave Number L (Mono) Wave Number R WMT Group (Owner's Manual; p. 70) Parameter Wave Coarse Tune Wave Fine Tune Wave Level Wave Pan Wave Rnd Pan Sw Wave Alter Pan Sw WMT Velocity Control Velo Fade Lower Velo Range Lower Velo Range Upper Velo Fade Upper Value -48 +48 -50 +50 0127 L64063R OFF, ON OFF, ON, REVS OFF, ON, RANDOM 0127 I&SParameter General Group (Owner's Manual; p. 96) Parameter Performance Name * Specify when writing. Value space, AZ, az, 09, ! " # \$ % & ' () * + , - . / : ; < = > ? @ [] ^ _ { | } Part View Group (Owner's Manual; p. 84) Parameter [1 (Level/Pan)] Patch Type Patch Bank Patch Number Keyboard Switch Solo Switch Mute Switch Part Level Part Pan [2 (Output Effect)] Part Output Assign Part Output MFX Select Part Output Levep;H), Down (_), Up&Down, Up&Down (L&H), Up&Down (_), Random (L), Random (_), Phrase REAL, 1127 116 -3 +3 0100 Rhythm Group (Owner's Manual; p. 112) Parameter Arp/Rhy Switch Rhythm Pattern Grid Arpeggio/Rhythm Switch Value OFF, ON 1/4 () , 1/8 () , 1/8 () L, 1/8 () H, 1/12 () , Rhythm Pattern Duration Rhythm Pattern Switch Rhythm Pattern Velocity Rhythm Pattern Accent Rate Rhythm Group Number 1/16 () , 1/16 () L, 1/16 () H, 1/24 (30, 40, 50, 60, 70, 80, 90, 100, 120, FULL OFF, ON REAL, 1127 0100 U01U32, P01P32 Chord Memory Group (Owner's Manual; p. 110) Parameter Chord Switch Chord Form Value OFF, ON U01U64, P01P64 12 Parameter List Effect Group (Owner's Manual; p. 178) Parameter MFX Structure Type MFX Type MFX Output Level MFX Chorus Send Level MFX Reverb Send Level MFX Output Assign Source 14 Destination 14 Sens 14 MFX Control Channel MFX-13 Source Chorus Chorus Type Chorus Output Select Chorus Level Chorus Output Assign Chorus Source Reverb Reverb Type Reverb Level Reverb Output Assign Reverb Source Value 116 077 (Fantom-S88;78) 0127 0127 0127 A, B OFF, CC0131, 3395, PITCH BEND, AFTERTOUC, SYS CTRL1SYS CTRL4 -63 +63 116, OFF PRF, P1-P16 0 (Off), 1 (Chorus), 2 (Delay), 3 (GM2 Chorus) MAIN, REV, MAIN+REV 0127 A, B PRF, P1P16 0 (Off), 1 (Reverb) 2 (SRV Room), 3 (SRV Hall) 4 (SRV Plate), 5 (GM2 Reverb) 0127 A, B PRF, P1P16 Multi-Effects Type Multi-Effects Output Level Multi-Effects Chorus Send Level Multi-Effects Reverb Send Level Multi-Effects Output Assign Multi-Effects Control Source 14 Multi-Effects Control Destination 14 Multi-Effects Control Sens 14 Multi-Effects Control Channel Multi-Effects 13 Source Rhythm Group Parameter Rhythm Group Group (Owner's Manual; p. 116) Parameter Recommended Rhy Pad Mode Rhy Ptn Number Rhy Ptn Velocity Pad Note Pad Velocity Recommended Rhythm Set Rhythm Pattern Number Rhythm Pattern Velocity Value USER, PR-AE (F;Fantom-S88), GM, CARD, XP-AD OFF, NOTE, PATTERN U001U256, P001P256 REAL, 1127 C-1G9 REAL, 1127 Sample Parameters Sample Group (Owner's Manual; p.



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101) * If Patch mode is selected, this is saved as part of the system settings. Parameter Knob 14 Assign Realtime Control Knob Assign 14 Value CC0131, 33-95, Pitch Bend, Aftertouch, Arp Style, Arp Grid, Arp Duration, Arp Motif, Chord Form, Master Level Switch Group (Owner's Manual; p. 102) * If Patch mode is selected, this is saved as part of the system settings.

Parameter Switch 1/2 Assign Assignable Switch 1/2 Value Transpose Down, Transpose \rightarrow Up, Tap Tempo, Mono/ Poly, Portamento, Hold, MFX13 Sw, Chorus Sw, Reverb Sw, Mastering Sw, Loop, Rhythm Start/Stop Pad Setting Group (Owner's Manual; p. 136) Parameter Pad Common Velo Pad Sens Aftertouch Sens Roll Resolution Pad Common Velocity Pad Sensitivity Aftertouch Sensitivity Value REAL, 1127 LIGHT, MEDIUM, HEAVY 0100 1/4 (), 1/6 (1/24 (), 1/8 (), 1/12 (), 1/16 (),), 1/32 (), 1/48 (* If Patch mode is selected, this is saved as part of the system settings. Parameter Pad Set Base Note Velocity Pad Base Note Pad Note Pad Velocity Value User, Note, Rhythm C-1G9 C-1G9 REAL, 1127 18 Effects List Multi-Effects Parameters The multi-effects feature 78 (Fantom-S; 77) different kinds of effects. Some of the effects consist of two or more different effects connected in series. Parameters marked with a sharp "#" can be controlled using a specified controller (Two setting items will change simultaneously for "#1" and "#2"). 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 SHUFFLE DELAY 3D DELAY TIME CTRL DELAY LONG TIME CTRL DELAY TAPE ECHO LOFI NOISE LOFI COMPRESS LOFI RADIO TELEPHONE PHONOGRAPH PITCH SHIFTER 2VOICE PITCH SHIFTER STEP PITCH SHIFTER REVERB GATED REVERB OVERDRIVE CHORUS OVERDRIVE FLANGER OVERDRIVE DELAY DISTORTION CHORUS DISTORTION FLANGER DISTORTION DELAY ENHANCER CHORUS ENHANCER FLANGER ENHANCER DELAY CHORUS DELAY FLANGER DELAY CHORUS FLANGER SYMPATHETIC

RESONANCE (Fantom-S88 only) P.33 P.34 P.34 P.34 P.

34 P.35 P.35 P.35 P.36 P.

36 P.36 P.36 P.37 P.37 P.

37 P.38 P.38 P.38 P.38 P.38 P.38 P.39 P.39 P.

39 P.40 P.40 P.40 LO-FI (5 types) PITCH (3 types) FILTER (10 types) 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 EQUALIZER SPECTRUM ISOLATOR LOW BOOST SUPER FILTER STEP FILTER ENHANCER AUTO WAH HUMANIZER SPEAKER SIMULATOR PHASER STEP PHASER MULTI STAGE PHASER INFINITE PHASER RING MODULATOR STEP RING MODULATOR TREMOLO AUTO PAN STEP PAN SLICER ROTARY VK ROTARY CHORUS FLANGER STEP FLANGER HEXA-CHORUS TREMOLO CHORUS SPACE-D 3D CHORUS 3D FLANGER 3D STEP FLANGER 2BAND CHORUS 2BAND FLANGER 2BAND STEP FLANGER OVERDRIVE DISTORTION VS OVERDRIVE VS DISTORTION GUITAR AMP SIMULATOR COMPRESSOR LIMITER GATE DELAY LONG DELAY SERIAL DELAY MODULATION DELAY 3TAP PAN DELAY 4TAP PAN DELAY MULTI TAP DELAY REVERSE DELAY P.20 P.20 P.20 P.20 P.20 P.21 P.

21 P.21 P.22 P.22 P.22 P.

22 P.23 P.23 P.23 P.23 P.

24 P.24 P.24 P.24 P.25 P.25 P.25 P.26 P.26 P.26 P.

26 P.27 P.27 P.27 P.28 P.28 P.28 P.29 P.29 P.29 P.

29 P.30 P.30 P.30 P.30 P.

31 P.31 P.31 P.31 P.32 P.

32 P.32 P.33 P.33 REVERB (2 types) COMBINATION (12 types) MODULATION (12 types) 5 PIANO (1 type) About Note Some effect parameters (such as Rate or Delay Time) can be set in terms of a note value. Such parameters have a num/note switch that lets you specify whether you will set the value as a note value or as a numerical value. If you want to set Rate (Delay Time) as a numerical value, set the num/note switch to "Hz" ("msec"). If you want to set it as a note value, set the num/note switch to "NOTE." CHORUS (12 types) DYNAMICS (8 types) num/note switch DELAY (13 types) If a parameter whose num/note switch is set to "NOTE" is specified as a destination for multi-effect control, you will not be able to use multi-effect control to control that parameter. 19 Effects List 01: EQUALIZER This is a four-band stereo equalizer (low, mid x 2, high). fig.

MFX-01 Parameter Boost/ Cut Low # Boost/ Cut Mid # Boost/ Cut High # Anti Phase Low Sw Value -60 +4 dB Description These boost and cut each of the High, Middle, and Low frequency ranges. At -60 dB, the sound becomes inaudible. 0 dB is equivalent to the input level of the sound. Turns the Anti-Phase function on and off for the Low frequency ranges. When turned on, the counterchannel of stereo sound is inverted and added to the signal. Adjusts the level settings for the Low frequency ranges. Adjusting this level for certain frequencies allows you to lend emphasis to specific parts. (This is effective only for stereo source.) Settings of the Anti-Phase function for the Middle frequency ranges The parameters are the same as for the Low frequency ranges. Turns Low Booster on/off.

This emphasizes the bottom to create a heavy bass sound. Increasing this value gives you a heavier low end. * Depending on the Isolator and filter settings this effect may be hard to distinguish. Output Level L in 4-Band EQ L out R in 4-Band EQ Value 200, 400 Hz -15 +15 dB 2008000 Hz -15 +15 dB 0.5, 1.0, 2.0, 4.0, 8.0 R out OFF, ON Parameter Low Freq Low Gain # Mid1 Freq Mid1 Gain Mid1 Q Description Frequency of the low range Gain of the low range Frequency of the middle range 1 Gain of the middle range 1 Width of the middle range 1 Set a higher value for Q to narrow the range to be affected. Frequency of the middle range 2 Gain of the middle range 2 Width of the middle range 2 Set a higher value for Q to narrow the range to be affected. Frequency of the high range Gain of the high range Output Level Anti Phase Low Level 0127 Mid2 Freq Mid2 Gain Mid2 Q 2008000 Hz -15 +15 dB 0.5, 1.0, 2.0, 4.0, 8.0 Anti Phase Mid Sw Anti Phase Mid Level Low Boost Sw OFF, ON 0127 OFF, ON Low Boost Level 0127 High Freq High Gain # Level # 2000, 4000, 8000 Hz -15 +15 dB 0127 Level 0127 02: SPECTRUM This is a stereo spectrum. Spectrum is a type of filter which modifies the timbre by boosting or cutting the level at specific frequencies. fig.MFX-02 04: LOW BOOST Boosts the volume of the lower range, creating powerful lows. fig.

MFX-04 L in Low Boost Low Boost 2-Band EQ 2-Band EQ L out R out L in Spectrum L out R in R in Spectrum R out Parameter Boost Frequency # Boost Gain # Boost Width Low Gain High Gain Level Value 50125 Hz 0 +12 dB WIDE, MID, NARROW -15 +15 dB -15 +15 dB 0127 Description Center frequency at which the lower range will be boosted Amount by which the lower range will be boosted Width of the lower range that will be boosted Gain of the low frequency range Gain of the high frequency range Output level Parameter Band1 (250Hz) Band2 (500Hz) Band3 (1000Hz) Band4 (1250Hz) Band5 (2000Hz) Band6 (3150Hz) Band7 (4000Hz) Band8 (8000Hz) Q Value -15 +15 dB Description Gain of each frequency band 0.



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5, 1.0, 2.0, 4.0, 8.0 Level # 0127 Simultaneously adjusts the width of the adjusted ranges for all the frequency bands. Output Level 05: SUPER FILTER This is a filter with an extremely sharp slope. The cutoff frequency can be varied cyclically. fig.MFX-05 03: ISOLATOR This is an equalizer which cuts the volume greatly, allowing you to add a special effect to the sound by cutting the volume in varying ranges.

fig.MFX-03 L in R in Super Filter Super Filter L out R out Parameter Value LPF, BPF, HPF, NOTCH Description Filter type Frequency range that will pass through each filter LPF: frequencies below the cutoff BPF: frequencies in the region of the cutoff HPF: frequencies above the cutoff NOTCH: frequencies other than the region of the cutoff L in Isolator Low Boost L out Filter Type R in Isolator Low Boost R out 20 Effects List Parameter Filter Slope Value -12, -24, -36 dB Description Amount of attenuation per octave -36 dB: extremely steep -24 dB: steep -12 dB: gentle Cutoff frequency of the filter Increasing this value will raise the cutoff frequency. Filter resonance level Increasing this value will emphasize the region near the cutoff frequency. Amount of boost for the filter output On/off switch for cyclic change How the cutoff frequency will be modulated TRI: triangle wave SQR: square wave SIN: sine wave SAW1: sawtooth wave (upward) SAW2: sawtooth wave (downward) 07: ENHANCER Controls the overtone structure of the high frequencies, adding sparkle and tightness to the sound. fig.

MFX-07 Filter Cutoff # Filter Resonance # Filter Gain Modulation Sw Modulation Wave 0127 L in Enhancer Mix 0127 2-Band EQ 2-Band EQ L out 0 +12 dB OFF, ON TRI, SQR, SIN, SAW1, SAW2 R in Enhancer Mix R out Parameter Sens # Mix # Low Gain High Gain Level Value 0127 0127 -15 +15 dB -15 +15 dB 0127 Description Sensitivity of the enhancer Level of the overtones generated by the enhancer Gain of the low range Gain of the high range Output Level SAW1 SAW2 08: AUTO WAH Rate # Depth Attack # 0.0510.00 Hz, note 0127 0127 Rate of modulation Depth of modulation Speed at which the cutoff frequency will change This is effective if Modulation Wave is SQR, SAW1, or SAW2. Output level Cyclically controls a filter to create cyclic change in timbre. fig.

MFX-08 L in Auto Wah 2-Band EQ L out R in Level 0127 Auto Wah 2-Band EQ Description R out 06: STEP FILTER This is a filter whose cutoff frequency can be modulated in steps. You can specify the pattern by which the cutoff frequency will change. fig.MFX-06 Parameter Filter Type Value LPF, BPF Manual # 0127 0127 L in R in Step Filter Step Filter L out R out Peak Parameter Step 0116 Rate # Attack # Filter Type Value 0127 0.0510.00 Hz, note 0127 LPF, BPF, HPF, NOTCH Description Cutoff frequency at each step Rate of modulation Speed at which the cutoff frequency changes between steps Filter type Frequency range that will pass through each filter LPF: frequencies below the cutoff BPF: frequencies in the region of the cutoff HPF: frequencies above the cutoff NOTCH: frequencies other than the region of the cutoff Amount of attenuation per octave -12 dB: gentle -24 dB: steep -36 dB: extremely steep Filter resonance level Increasing this value will emphasize the region near the cutoff frequency. Amount of boost for the filter output Output level Sens # Polarity 0-127 UP, DOWN Rate # Depth # Phase # 0.0510.00 Hz, note 0127 0180 deg Type of filter LPF: The wah effect will be applied over a wide frequency range. BPF: The wah effect will be applied over a narrow frequency range.

Adjusts the center frequency at which the effect is applied. Adjusts the amount of the wah effect that will occur in the range of the center frequency. Set a higher value for Q to narrow the range to be affected. Adjusts the sensitivity with which the filter is controlled. Sets the direction in which the frequency will change when the auto-wah filter is modulated. UP: The filter will change toward a higher frequency. DOWN: The filter will change toward a lower frequency. Frequency of modulation Depth of modulation Adjusts the degree of phase shift of the left and right sounds when the wah effect is applied. Gain of the low range Gain of the high range Output Level Filter Slope -12, -24, -36 dB Low Gain High Gain Level -15 +15 dB -15 +15 dB 0127 Filter Resonance #

Filter Gain Level 0127 0 +12 dB 0127 21 Effects List 09: HUMANIZER Adds a vowel character to the sound, making it similar to a human voice. fig. MFX-09 Type BUILT-IN 2 BUILT-IN 3 BUILT-IN 4 BUILT-IN 5 BG STACK 1 BG STACK 2 MS STACK 1 MS STACK 2 METAL STACK 2-STACK 3-STACK Cabinet open back enclosure open back enclosure open back enclosure open back enclosure sealed enclosure large sealed enclosure large sealed enclosure large sealed enclosure large double stack large double stack large triple stack Speaker 12 x 2 12 x 2 12 x 2 12 x 2 12 x 2 12 x 2 12 x 2 12 x 4 12 x 4 12 x 4 12 x 4 12 x 4 12 x 4 Microphone condenser condenser condenser condenser condenser condenser condenser condenser condenser L in Overdrive R in Parameter Drive Sw Drive # Vowel1 Vowel2 Rate # Depth # Input Sync Sw Input Sync Threshold Manual # L out Formant 2-Band EQ Pan L Pan R R out Value OFF, ON 0127 a, e, i, o, u a, e, i, o, u 0.0510.00 Hz, note 0127 OFF, ON Description Turns Drive on/off. Degree of distortion Also changes the volume. Selects the vowel.

Frequency at which the two vowels switch Effect depth Determines whether the LFO for switching the vowels is reset by the input signal (ON) or not (OFF). Volume level at which reset is applied Point at which Vowel 1/2 switch 49 or less: Vowel 1 will have a longer duration. 50: Vowel 1 and 2 will be of equal duration. 51 or more: Vowel 2 will have a longer duration. Gain of the low frequency range Gain of the high frequency range Stereo location of the output Output level 11: PHASER A phase-shifted sound is added to the original sound and modulated.

fig.MFX-11 L in Phaser Mix Mix 2-Band EQ L out 0127 0100 R in Phaser 2-Band EQ R out Parameter Mode Manual # Value 4-STAGE, 8-STAGE, 12-STAGE 0127 Description Number of stages in the phaser Adjusts the basic frequency from which the sound will be modulated. Frequency of modulation Depth of modulation Selects whether the left and right phase of the modulation will be the same or the opposite. INVERSE: The left and right phase will be opposite. When using a mono source, this spreads the sound. SYNCHRO: The left and right phase will be the same. Select this when inputting a stereo source. Amount of feedback Adjusts the proportion of the phaser sound that is fed back into the effect.



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Negative (-) settings will invert the phase. Level of the phase-shifted sound Gain of the low range Gain of the high range Output Level Low Gain High Gain Pan # Level -15 +15 dB -15 +15 dB L6463R 0127 10: **SPEAKER SIMULATOR** Simulates the speaker type and mic settings used to record the speaker sound.

fig.MFX-10 Rate # Depth Polarity 0.0510.00 Hz, note 0127 INVERSE, SYNCHRO L in Speaker L out R in Speaker R out Resonance # Cross Feedback 0127 -98 +98 % Parameter Speaker Type Mic Setting Value (See the table right.) 1, 2, 3 Description Type of speaker Adjusts the location of the mic that is recording the sound of the speaker. This can be adjusted in three steps, with the mic becoming more distant in the order of 1, 2, and 3. Volume of the microphone Volume of the direct sound Output Level Mix # Low Gain High Gain Level 0127 -15 +15 dB -15 +15 dB 0127 Mic Level # Direct Level # Level # 0127 0127 0127 12: **STEP PHASER** The phaser effect will be varied gradually. fig.MFX-12 Specifications of each Speaker Type The speaker column indicates the diameter of each speaker unit (in inches) and the number of units. Type SMALL 1 SMALL 2 MIDDLE JC-120 BUILT-IN 1 L in Cabinet small open-back enclosure small open-back enclosure open back enclosure open back enclosure Step Phaser Mix Mix Speaker 10 10 12 x 1 12 x 2 12 x 2 Microphone dynamic dynamic dynamic dynamic dynamic 2-Band EQ L out R in Step Phaser 2-Band EQ R out 22 Effects List Parameter Mode Manual # Value 4-STAGE, 8-STAGE, 12-STAGE 0127 Description Number of stages in the phaser Adjusts the basic frequency from which the sound will be modulated. Frequency of modulation Depth of modulation Selects whether the left and right phase of the modulation will be the same or the opposite. INVERSE: The left and right phase will be opposite. When using a mono source, this spreads the sound. SYNCHRO: The left and right phase will be the same. Select this when inputting a stereo source.

Amount of feedback Adjusts the proportion of the phaser sound that is fed back into the effect. Negative (-) settings will invert the phase. Rate of the step-wise change in the phaser effect Level of the phase-shifted sound Gain of the low range Gain of the high range Output Level Parameter Mode Speed # Range 1, 2, 3, 4 -100 +100 Explanation Higher values will produce a deeper phaser effect. Speed at which to raise or lower the frequency at which the sound is modulated (+: upward / -: downward) Amount of feedback Volume of the phase-shifted sound Panning of the output sound Amount of boost/cut for the low-frequency range Amount of boost/cut for the high-frequency range Output volume Rate # Depth Polarity 0.0510.

00 Hz, note 0127 INVERSE, SYNCHRO Resonance # Mix # Pan # Low Gain High Gain Level 0127 0127 L6463R -15 +15 dB -15 +15 dB 0127 15: **RING MODULATOR** This is an effect that applies amplitude modulation (AM) to the input signal, producing bell-like sounds. You can also change the modulation frequency in response to changes in the volume of the sound sent into the effect. fig.MFX-15 Resonance # Cross Feedback 0127 -98 +98 % Step Rate # Mix # Low Gain High Gain Level 0.1020.00 Hz, note 0127 -15 +15 dB -15 +15 dB 0127 L in Ring Mod 2-Band EQ L out R in Ring Mod 2-Band EQ Description R out 13: **MULTI STAGE PHASER** Extremely high settings of the phase difference produce a deep phaser effect. fig.MFX-13 Parameter Frequency # Sens # Polarity Value 0127 0127 UP, DOWN L in Multi Stage Phaser R in Resonance L out Mix 2-Band EQ Pan L Pan R R out Low Gain High Gain Balance # Level -15 +15 dB -15 +15 dB D100:0W D0:100W 0127 Adjusts the frequency at which modulation is applied. Adjusts the amount of frequency modulation applied. Determines whether the frequency modulation moves towards higher frequencies (UP) or lower frequencies (DOWN).

Gain of the low frequency range Gain of the high frequency range Volume balance between the direct sound (D) and the effect sound (W) Output level Parameter Mode Value 4-STAGE, 8-STAGE, 12-STAGE, 16-STAGE, 20-STAGE, 24-STAGE 0127 Description Number of phaser stages 16: **STEP RING MODULATOR** This is a ring modulator that uses a 16-step sequence to vary the frequency at which modulation is applied. fig.MFX-16 Manual # Rate # Depth Resonance # Mix # Pan # Low Gain High Gain Level 0.0510.00 Hz, note 0127 0127 0127 L6463R -15 +15 dB -15 +15 dB 0127 Adjusts the basic frequency from which the sound will be modulated. Frequency of modulation Depth of modulation Amount of feedback Level of the phase-shifted sound Stereo location of the output sound Gain of the low range Gain of the high range Output Level L in Step Ring Mod 2-Band EQ L out R in Step Ring Mod Range 0127 2-Band EQ R out Parameter Step 0116 Rate # Explanation Frequency of ring modulation at each step Rate at which the 16-step sequence will cycle Speed at which the modulation frequency changes between steps Amount of boost/cut for the low-frequency range Amount of boost/cut for the high-frequency range Volume balance of the original sound (D) and effect sound (W) Output volume 0.0510.00 Hz, note 0127 14: **INFINITE PHASER** A phaser that continues raising/lowering the frequency at which the sound is modulated. fig.MFX-14 Attack # Low Gain High Gain Balance # Level -15 +15 dB -15 +15 dB D100:0W D0:100W 0127 L in Infinite Phaser R in 2-Band EQ L out Pan L Pan R R out 23 Effects List 17: **TREMOLO** Cyclically modulates the volume to add tremolo effect to the sound.

fig.MFX-17a 19: **STEP PAN** This uses a 16-step sequence to vary the panning of the sound. fig.MFX-19 L in R in Tremolo Tremolo 2-Band EQ 2-Band EQ L out R out L in Step Pan L out R in Parameter Mod Wave Step Pan R out Value TRI, SQR, SIN, SAW1, SAW2 Description Parameter Modulation Wave TRI: triangle wave SQR: square wave SIN: sine wave SAW1/2: sawtooth wave Step 0116 Rate # Attack # Input Sync Sw Range L6463R 0.0510. 00 Hz, note 0127 OFF, ON Explanation Pan at each step Rate at which the 16-step sequence will cycle Speed at which the pan changes between steps Specifies whether an input note will cause the sequence to resume from the first step of the sequence (ON) or not (OFF) Volume at which an input note will be detected Output volume SAW1 SAW2 Rate # Depth # Low Gain High Gain Level 0.0510.00 Hz, note 0127 -15 +15 dB -15 +15 dB 0127 Frequency of the change Depth to which the effect is applied Gain of the low range Gain of the high range Output Level Input Sync Threshold Level 0127 0127 20: **SLICER** By applying successive cuts to the sound, this effect turns a conventional sound into a sound that appears to be played as a backing phrase.



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This is especially effective when applied to sustaintype sounds. fig.

MFX-20 18: AUTO PAN Cyclically modulates the stereo location of the sound. *fig.MFX-18a* L in R in Auto Pan Auto Pan 2-Band EQ 2-Band EQ L out R out L in Slicer L out R in Slicer R out Parameter Mod Wave Value TRI, SQR, SIN, SAW1, SAW2 Description Modulation Wave TRI: triangle wave SQR: square wave SIN: sine wave SAW1/2: sawtooth wave Parameter Step 0116 Rate # Attack # Input Sync Sw Value L6463R 0.0510.00 Hz, note 0127 OFF, ON Description Level at each step Rate at which the 16-step sequence will cycle Speed at which the level changes between steps Specifies whether an input note will cause the sequence to resume from the first step of the sequence (ON) or not (OFF) Volume at which an input note will be detected Sets the manner in which the volume changes as one step progresses to the next. **LEGATO:** The change in volume from one step's level to the next remains unaltered. If the level of a following step is the same as the one preceding it, there is no change in volume. **SLASH:** The level is momentarily set to 0 before progressing to the level of the next step. This change in volume occurs even if the level of the following step is the same as the preceding step. Timing of volume changes in levels for even-numbered steps (step 2, step 4, step 6.

..). The higher the value, the later the beat progresses. Output level SAW1 R SAW2 R Input Sync Threshold Mode 0127 **LEGATO, SLASH** L Rate # Depth # Low Gain High Gain Level 0.0510.00 Hz, note 0127 -15 +15 dB -15 +15 dB 0127 L Frequency of the change Depth to which the effect is applied Gain of the low range Gain of the high range Output Level Shuffle # 0127 Level 0127 24 Effects List 21: **ROTARY** The Rotary effect simulates the sound of the rotary speakers often used with the electric organs of the past. Since the movement of the high range and low range rotors can be set independently, the unique type of modulation characteristic of these speakers can be simulated quite closely. This effect is most suitable for electric organ Patches. *fig.*

MFX-21 Parameter Woofer Trans Up Value 0127 Description Adjusts the rate at which the woofer rotation speeds up when the rotation is switched from Slow to Fast. Adjusts the rate at which the woofer rotation speeds up when the rotation is switched from Fast to Slow. Volume of the woofer Settings of the tweeter The parameters are the same as for the woofer. **Woofer Trans Down** 0127 L in Rotary R in L out R out Parameter Speed # Value SLOW, FAST Description Simultaneously switch the rotational speed of the low frequency rotor and high frequency rotor. **SLOW:** Slows down the rotation to the Slow Rate.

FAST: Speeds up the rotation to the Fast Rate. Slow speed (SLOW) of the low frequency rotor Fast speed (FAST) of the low frequency rotor Adjusts the time it takes the low frequency rotor to reach the newly selected speed when switching from fast to slow (or slow to fast) speed. Lower values will require longer times. Volume of the low frequency rotor Settings of the high frequency rotor The parameters are the same as for the low frequency rotor **Woofer Level Tweeter Slow Speed Tweeter Fast Speed Tweeter Trans Up Tweeter Trans Down Tweeter Level Spread** 0127 0.0510.

00 Hz 0.0510.00 Hz 0127 0127 0127 010 Low Gain High Gain Level # -15 +15 dB -15 +15 dB 0127 Sets the rotary speaker stereo image. The higher the value set, the wider the sound is spread out. Gain of the low range Gain of the high range Output Level **Woofer Slow Speed Woofer Fast Speed Woofer Acceleration** 0.0510.00 Hz 0.0510.00 Hz 015 23: **CHORUS** This is a stereo chorus. A filter is provided so that you can adjust the timbre of the chorus sound.

fig.MFX-23 Balance D L in Chorus Chorus R in Balance D 2-Band EQ Balance W Balance W L out **Woofer Level Tweeter Slow Speed Tweeter Fast Speed Tweeter Acceleration Tweeter Level Separation** Level # 0127 0.0510.00 Hz 0.0510.00 Hz 015 0127 0127 0127 2-Band EQ Description R out Parameter Spatial dispersion of the sound Output Level Filter Type Value OFF, LPF, HPF 22: **VK ROTARY** This type provides modified response for the rotary speaker, with the low end boosted further. This effect features the same specifications as the VK-7's built-in rotary speaker. *fig.MFX-22* Cutoff Freq Pre Delay 200-8000 Hz 0.0100.

0 ms L in Rotary R in 2-Band EQ L out Rate # Depth Phase Low Gain High Gain Balance # 0.0510.00 Hz, note 0127 0180 deg -15 +15 dB -15 +15 dB D100:0WD0:100W 2-Band EQ R out Level 0127 Type of filter OFF: no filter is used LPF: cuts the frequency range above the Cutoff Freq HPF: cuts the frequency range below the Cutoff Freq Basic frequency of the filter Adjusts the delay time from the direct sound until the chorus sound is heard. Frequency of modulation Depth of modulation Spatial spread of the sound Gain of the low range Gain of the high range Volume balance between the direct sound (D) and the chorus sound (W) Output Level Parameter Speed # Brake # Value SLOW, FAST OFF, ON Description Rotational speed of the rotating speaker Switches the rotation of the rotary speaker. When this is turned on, the rotation will gradually stop.

When it is turned off, the rotation will gradually resume. Low-speed rotation speed of the woofer High-speed rotation speed of the woofer **Woofer Slow Speed Woofer Fast Speed** 0.0510.00 Hz 0.0510.

00 Hz 25 Effects List 24: **FLANGER** This is a stereo flanger. (The LFO has the same phase for left and right.) It produces a metallic resonance that rises and falls like a jet airplane taking off or landing. A filter is provided so that you can adjust the timbre of the flanged sound. *fig.MFX-24* Parameter Pre Delay Value 0.0100.0 ms Description Adjusts the delay time from when the direct sound begins until the flanger sound is heard. Frequency of modulation Depth of modulation Spatial spread of the sound Adjusts the proportion of the flanger sound that is fed back into the effect. Negative (-) settings will invert the phase.

Rate (period) of pitch change Gain of the low range Gain of the high range Volume balance between the direct sound (D) and the flanger sound (W) Output Level Balance D Rate # Depth Phase Feedback # 0.0510.00 Hz, note 0127 0180 deg -98 +98 % L in Flanger Feedback Feedback 2-Band EQ Balance W L out Step Rate # Low Gain High Gain Balance # 0.1020.00 Hz, note -15 +15 dB -15 +15 dB D100:0WD0:100W Flanger R in Balance D Balance W 2-Band EQ Level 0127 R out 26: **HEXA-CHORUS** Uses a six-phase chorus (six layers of chorused sound) to give richness and spatial spread to the sound.



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fig.MFX-26 Parameter Filter Type Value OFF, LPF, HPF Description Type of filter OFF: no filter is used LPF: cuts the frequency range above the Cutoff Freq HPF: cuts the frequency range below the Cutoff Freq Basic frequency of the filter Adjusts the delay time from when the direct sound begins until the flanger sound is heard. Frequency of modulation Depth of modulation Spatial spread of the sound Adjusts the proportion of the flanger sound that is fed back into the effect. Negative (-) settings will invert the phase. Gain of the low range Gain of the high range Volume balance between the direct sound (D) and the flanger sound (W) Output Level L in Balance D L out Balance W Cutoff Freq Pre Delay 2008000 Hz 0.

0100.0 ms Hexa Chorus Balance W R in Balance D R out Rate # Depth Phase Feedback # 0.0510.00 Hz, note 0127 0180 deg -98 +98 % Parameter Pre Delay Value 0.0100.

0 ms Description Adjusts the delay time from the direct sound until the chorus sound is heard. Frequency of modulation Depth of modulation Adjusts the differences in Pre Delay between each chorus sound. Adjusts the difference in modulation depth between each chorus sound. Adjusts the difference in stereo location between each chorus sound. 0: All chorus sounds will be in the center.

20: Each chorus sound will be spaced at 60 degree intervals relative to the center. Volume balance between the direct sound (D) and the chorus sound (W) Output Level Low Gain High Gain Balance # -15 +15 dB -15 +15 dB D100:0WD0:100W Rate # Depth Pre Delay Deviation Depth Deviation Pan Deviation 0.0510.00 Hz, note 0127 020 -20 +20 Level 0127 020 25: STEP FLANGER This is a flanger in which the flanger pitch changes in steps. The speed at which the pitch changes can also be specified in terms of a note-value of a specified tempo. fig.MFX-25 Balance # Balance D D100:0WD0:100W L in Step Flanger Feedback Feedback 2-Band EQ Balance W L out Level 0127 27: TREMOLO CHORUS Balance W Step Flanger R in Balance D This is a chorus effect with added Tremolo (cyclic modulation of volume). fig.MFX-27 2-Band EQ R out L in Balance D L out Balance W Parameter Filter Type Value OFF, LPF, HPF Description Type of filter OFF: no filter is used LPF: cuts the frequency range above the Cutoff Freq HPF: cuts the frequency range below the Cutoff Freq Basic frequency of the filter Tremolo Chorus Balance W R in Balance D R out Cutoff Freq 2008000 Hz 26 Effects List Parameter Parameter Pre Delay Value 0127 0180 deg SPEAKER, PHONES Description Modulation depth of the chorus effect Spatial spread of the sound Adjusts the method that will be used to hear the sound that is output to the OUTPUT jacks. @@Gain of the low range Gain of the high range Volume balance between the direct sound (D) and the chorus sound (W) Output Level Value 0.

0100.0 ms Description Adjusts the delay time from the direct sound until the chorus sound is heard. Modulation frequency of the chorus effect Modulation depth of the chorus effect Modulation frequency of the tremolo effect Spread of the tremolo effect Spread of the tremolo effect Volume balance between the direct sound (D) and the tremolo chorus sound (W) Output Level Depth Phase Output Mode Chorus Rate # Chorus Depth Tremolo Rate # Tremolo Separation Tremolo Phase Balance # 0.0510.00 Hz, note 0127 0.0510.00 Hz, note 0127 0180 deg D100:0WD0:100W Low Gain High Gain Balance # -15 +15 dB -15 +15 dB D100:0WD0:100W Level 0127 Level 0127 28: SPACE-D This is a multiple chorus that applies two-phase modulation in stereo. It gives no impression of modulation, but produces a transparent chorus effect. fig.MFX-28 30: 3D FLANGER This applies a 3D effect to the flanger sound.

The flanger sound will be positioned 90 degrees left and 90 degrees right. fig.MFX-30 L 3D Flanger R 2-Band EQ L out Balance D L in Space D Space D R in Balance D 2-Band EQ Balance W Balance W L out 2-Band EQ Value OFF, LPF, HPF R out 2-Band EQ Description Parameter Description Type of filter OFF: no filter is used LPF: cuts the frequency range above the Cutoff Freq HPF: cuts the frequency range below the Cutoff Freq Basic frequency of the filter Adjusts the delay time from when the direct sound begins until the flanger sound is heard. Frequency of modulation Depth of modulation Spatial spread of the sound Adjusts the proportion of the flanger sound that is fed back into the effect. Negative (-) settings will invert the phase.

Adjusts the method that will be used to hear the sound that is output to the OUTPUT jacks. @@Gain of the low range Gain of the high range Volume balance between the direct sound (D) and the flanger sound (W) Output Level R out Filter Type Parameter Pre Delay Value 0.0100.0 ms Rate # Depth Phase Low Gain High Gain Balance # 0.0510.

00 Hz, note 0127 0180 deg -15 +15 dB -15 +15 dB D100:0WD0:100W Level 0127 Adjusts the delay time from the direct sound until the chorus sound is heard. Frequency of modulation Depth of modulation Spatial spread of the sound Gain of the low range Gain of the high range Volume balance between the direct sound (D) and the chorus sound (W) Output Level Cutoff Freq Pre Delay 2008000 Hz 0.0100.0 ms Rate # Depth Phase Feedback # 0.0510.00 Hz, note 0127 0180 deg -98 +98 % 29: 3D CHORUS This applies a 3D effect to the chorus sound. The chorus sound will be positioned 90 degrees left and 90 degrees right. fig.MFX-29 Output Mode SPEAKER, PHONES L 3D Chorus R 2-Band EQ L out Low Gain High Gain Balance # -15 +15 dB -15 +15 dB D100:0WD0:100W 2-Band EQ Value OFF, LPF, HPF R out Level 0127 Parameter Filter Type Description Type of filter OFF: no filter is used LPF: cuts the frequency range above the Cutoff Freq HPF: cuts the frequency range below the Cutoff Freq Basic frequency of the filter Adjusts the delay time from the direct sound until the chorus sound is heard. Frequency of modulation Cutoff Freq Pre Delay 2008000 Hz 0.

0100.0 ms Rate # 0.0510.00 Hz, note 27 Effects List 31: 3D STEP FLANGER This applies a 3D effect to the step flanger sound. The flanger sound will be positioned 90 degrees left and 90 degrees right. fig.MFX-31 Parameter Low Phase High Pre Delay Range 0180 deg 0.0100.0 ms Explanation Spaciousness of the low-range chorus sound Delay time from when the original sound is heard to when the high-range chorus sound is heard Rate at which the low-range chorus sound is modulated Modulation depth for the high-range chorus sound Spaciousness of the highrange chorus sound Volume balance of the original sound (D) and chorus sound (W) Output volume L 3D Step Flanger R 2-Band EQ L out High Rate # High Depth 0.



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0510.

00 Hz, note 0127 0180 deg D100:0WD0:100W 2-Band EQ Value OFF, LPF, HPF R out High Phase Balance # Parameter Filter Type Description Type of filter OFF: no filter is used LPF: cuts the frequency range above the Cutoff Freq HPF: cuts the frequency range below the Cutoff Freq Basic frequency of the filter Adjusts the delay time from when the direct sound begins until the flanger sound is heard. Frequency of modulation Depth of modulation Spatial spread of the sound Adjusts the proportion of the flanger sound that is fed back into the effect. Negative (-) settings will invert the phase. Rate (period) of pitch change Adjusts the method that will be used to hear the sound that is output to the OUTPUT jacks. @@Gain of the low range Gain of the high range Volume balance between the direct sound (D) and the flanger sound (W) Output Level Level 0127 33: 2BAND FLANGER A flanger that lets you apply an effect independently to the low-frequency and high-frequency ranges.

fig.MFX-33 Cutoff Freq Pre Delay 2008000 Hz 0.0100.0 ms L in High Band Flanger Split High Band Feedback L out Rate # Depth Phase Feedback # 0.05-10.

00 Hz, note 0127 0180 deg -98 +98 % Low Band Flanger Low Band Feedback High Band Feedback Step Rate # Output Mode 0.1020.00 Hz, note SPEAKER, PHONES High Band Flanger Split R in Parameter Split Freq Low Band Feedback Low Band Flanger R out Range 2008000 Hz Low Gain High Gain Balance # -15 +15 dB -15 +15 dB D100:0WD0:100W Explanation Frequency at which the low and high ranges will be divided Delay time from when the original sound is heard to when the low-range flanger sound is heard Rate at which the low-range flanger sound is modulated Modulation depth for the low-range flanger sound Spaciousness of the low-range flanger sound Proportion of the low-range flanger sound that is to be returned to the input (negative values invert the phase) Delay time from when the original sound is heard to when the high-range flanger sound is heard Rate at which the high-range flanger sound is modulated Modulation depth for the high-range flanger sound Spaciousness of the high-range flanger sound Proportion of the high-range flanger sound that is to be returned to the input (negative values invert the phase) Volume balance of the original sound (D) and flanger sound (W) Output volume Level 0127 Low Pre Delay 0.0100.0 ms 32: 2BAND CHORUS A chorus effect that lets you apply an effect independently to the low-frequency and high-frequency ranges. fig.MFX-32 Low Rate # Low Depth Low Phase 0.0510.00 Hz, note 0127 0180 deg -98 +98% L in High Band Chorus Split Low Band Chorus High Band Chorus Split Low Band Chorus R in Parameter Split Freq L out Low Feedback # High Pre Delay 0.0100.

0 ms High Rate # 0.0510.00 Hz, note 0127 0180 deg -98 +98% R out Range 2008000 Hz High Depth High Phase High Feedback # Explanation Frequency at which the low and high ranges will be divided Delay time from when the original sound is heard to when the low-range chorus sound is heard Rate at which the low-range chorus sound is modulated Modulation depth for the low-range chorus sound Low Pre Delay 0.0100.0 ms Balance # D100:0WD0:100W Low Rate # Low Depth 0.0510.00 Hz, note 0127 Level 0127 28 Effects List 34: 2BAND STEP FLANGER A step flanger that lets you apply an effect independently to the low-frequency and high-frequency ranges. fig.MFX-34 35: OVERDRIVE Creates a soft distortion similar to that produced by vacuum tube amplifiers. fig.

MFX-35 L in High Band Step Flanger Split High Band Feedback L out L in Over drive R in Parameter Drive # Amp Type L out Amp Simulator 2-Band EQ Pan L Pan R Low Band Step Flanger Low Band Feedback High Band Feedback R out Value 0127 SMALL, BUILT-IN, 2-STACK, 3-STACK Description Degree of distortion Also changes the volume. Type of guitar amp SMALL: small amp BUILT-IN: single-unit type amp 2-STACK: large double stack amp 3-STACK: large triple stack amp Gain of the low range Gain of the high range Stereo location of the output sound Output Level High Band Step Flanger Split R in Parameter Split Freq Low Band Feedback Low Band Step Flanger R out Range 2008000 Hz Explanation Frequency at which the low and high ranges will be divided Delay time from when the original sound is heard to when the low-range flanger sound is heard Rate at which the low-range flanger sound is modulated Modulation depth for the low-range flanger sound Spaciousness of the low-range flanger sound Proportion of the low-range flanger sound that is to be returned to the input (negative values invert the phase) Rate at which the steps will cycle for the low-range flanger sound Delay time from when the original sound is heard to when the high-range flanger sound is heard Rate at which the high-range flanger sound is modulated Modulation depth for the high-range flanger sound Spaciousness of the high-range flanger sound Proportion of the high-range flanger sound that is to be returned to the input (negative values invert the phase) Rate at which the steps will cycle for the high-range flanger sound Volume balance of the original sound (D) and flanger sound (W) Output volume Low Gain High Gain Pan # Level -15 +15 dB -15 +15 dB L6463R 0127 Low Pre Delay 0.0100.0 ms 36: DISTORTION Produces a more intense distortion than Overdrive. The parameters are the same as for "35: OVERDRIVE.

" fig.MFX-36 Low Rate # Low Depth Low Phase Low Feedback # 0.0510.00 Hz, note 0127 0180 deg -98 +98% L in Distortion R in Amp Simulator 2-Band EQ L out Pan L Pan R R out Low Step Rate # High Pre Delay 0.1020.

00 Hz, note 0.0100.0 ms 37: VS OVERDRIVE This is an overdrive that provides heavy distortion. fig.MFX-37 High Rate # High Depth High Phase High Feedback # 0.0510.00 Hz, note 0127 0180 deg -98 +98% L in Overdrive R in Parameter Drive # Tone # Amp Sw Amp Type L out Amp Simulator 2-Band EQ Pan L Pan R R out Value 0127 0127 OFF, ON SMALL, BUILT-IN, 2-STACK, 3-STACK Description Degree of distortion Also changes the volume. Sound quality of the Overdrive effect Turns the Amp Simulator on/off. Type of guitar amp SMALL: small amp BUILT-IN: single-unit type amp 2-STACK: large double stack amp 3-STACK: large triple stack amp Gain of the low range Gain of the high range Stereo location of the output sound Output Level High Step Rate # Balance # 0.1020.

00 Hz, note D100:0WD0:100W Level 0127 Low Gain High Gain Pan # Level -15 +15 dB -15 +15 dB L6463R 0127 29 Effects List 38: VS DISTORTION This is a distortion effect that provides heavy distortion.



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