

Oberheim

Xpander

6-Voice MIDI Synthesizer Expander

**FACTORY STOCK PATCHES GUIDE -
Vol. 1 & 2**

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Oberheim

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Oberheim Xpander

FACTORY STOCK PATCHES GUIDE – VOL. 1 & 2

The Xpander Factory Stock Patches – Volumes 1 and 2 showcase the sonic capabilities of the Oberheim Xpander. Volume 2 is the set of Patches currently being shipped in the Xpander. Volume 1 was the initial release of Xpander Patches, included on this tape for your use.

These patches are designed to be played from a MIDI keyboard with VELOCITY (VEL), After-Touch PRESSURE (PRESSR), and a Sustain Pedal (PED 2). They are used to control many parameters of each patch. Release Velocity (RVEL) is also incorporated into several of the patches.

If your keyboard does not have Velocity or Pressure, don't worry. These patches will still sound great. However, Velocity and Pressure vastly enhance the richness and playability of these sounds.

LOADING IN

Use your cassette recorder to load these patches into your Xpander, following the procedure described in the Xpander Owner's Manual. Refer to the section on the Cassette Interface load "ALL" procedure.

The enclosed tape contains:

- Side 1: **XPANDER FACTORY STOCK PATCHES / VOLUME 1**
- Side 2: **XPANDER FACTORY STOCK PATCHES / VOLUME 2**

When loading the tape into your Xpander, you may encounter some unexpected error messages when the data transfer is completed:

1. When loading Volume 1 into an Xpander with Voice Software Revision 1.4 or later, the SINGLE and MULTI Patches will load in correctly but the Global settings in MIDI will not, due to the new Revision's operational changes in these Sub-Pages. The XPANDER will display the message...

WRONG VERSION NUMBER

PRESS PAGE 2

... when the tape has been loaded successfully. Your Global MIDI settings will **not** be affected and new copies of this data made from your Xpander will play properly.

2. When loading Volume 2 into an Xpander with Voice Software Revision 1.2 or earlier, the SINGLE and MULTI Patches will load in correctly but the Global settings in MIDI will not. The XPANDER will display the message...

ERROR IN GLOBAL DATA

PRESS PAGE 2

... when the tape has been loaded successfully. Your Global MIDI settings will **not** be affected and new copies of this data made from your Xpander will play properly. This error message is due to a bug in the initial release of the Xpander software and will only happen with this **particular** copy of the data.

To determine which version of software is implemented in your Xpander, press MASTER PAGE, then press PAGE 2, then press the button beneath **VERSION** in the Upper PAGE MODIFIER display. The Software Version currently available is MAIN SOFTWARE 1.2 – VOICE SOFTWARE 1.4 – CASSETTE 1.0. Any Xpander can be retro-fitted with new the software. Contact your nearest ECC/Oberheim Authorized Service Center for prices and availability.

SETTING UP

These patches have been programmed to give best results when played from a MIDI keyboard with Attack and Release Velocity, After-Touch Pressure, Pitch Bend & Modulation Levers, and a Sustain Pedal. To set the Xpander to read these controls, set the MASTER MIDI CONTROLS page to the following settings:

LEVER1	LEVER2	PEDAL1	PEDAL2	PRESSR
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(PEDAL1 has not been used in these patches)

Once you've set the Xpander to the desired MIDI controllers, go to the MASTER MIDI ENABLES page and turn on (underline) the CONTROLS function :

SYSTEMX	XMITCV	<u>ECHO</u>	<u>CONTROLS</u>	<u>PATCH</u>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Other useful controls on this page are:

ECHO takes the Xpander's own information (such as changing patches on the keypad) and adds it to the information coming from the MIDI IN, and sends it all to the MIDI OUT.

PATCH enables patch changes from your MIDI keyboard.

VELOCITY adjusts the Xpander's Velocity response to your particular keyboard and playing style.

LINEAR response has more effect for softer playing.

EXPO1 is a normal exponential curve, which gives the most dynamic range.

EXPO2 utilizes a curve that is compressed to give more resolution in the middle range.

NO DEFAULTS sets the Xpander to remember your settings when power is turned off. Newer Xpanders with Software Revision 1.2 always remember your settings and do not contain the NO DEFAULTS display.

Pedal Note: These patches are not programmed to be used with the Xpander's Pedal Inputs. Use your keyboard's own Sustain Pedal Input.

Pressure Note: If your keyboard is not equipped with After-Touch Pressure, try setting PRESSR to 1. This will enable the Modulation Lever to control pressure functions in addition to modulation. If you want the Modulation Lever to only control pressure functions, set LEVER2 to some other setting, such as 0.

Your keyboard may have other MIDI controllers that can be used to control the functions assigned to Pressure. Check the owner manuals of your other equipment for more information.

PLAYING THE PATCHES

Single Patches

The best results from Single Patches are obtained by setting the MASTER Page settings as follows:

CV/MIDI PAGE: All voices to ZONE 1

ZONE PAGE (ZONE1): INPUT= CH1*
LIMITS= 0 TO 127
MODE= depends upon the patch

VIB PAGE: As shown:

PAGE 1	PAGE 2
SPEED WAVE AMP	LAG
56 TRIANGLE 0	SPEED= OFF 0 / AMP= LEV2 +63

Multi Patches

Most of the important settings are programmed into each Multi Patch. However, make sure that your keyboard is transmitting MIDI information on Channel 1.

* Or the same MIDI Channel as your Master keyboard.

MAKING THE MOST OF MIDI CONTROL

Velocity, Pressure, Pedals, and Levers are used to control a wide range of parameters of many of these patches. Listen carefully, and you will hear many timbral subtleties within each patch. Look at the settings of the patches and you will see how these effects are achieved. For example, in Volume 2:

S00 TOTOHORN Velocity is used to control the Filter Frequency and VCA1. Pressure is also used to control the Filter Frequency, but through a Tracking Generator (TRACK1). The Tracking Generator is used to adjust the pressure response: turn the controls of TRACK1 to fine tune the Pressure's effect on the Filter Frequency.

S03 STRIANOV Velocity is used to modulate the Attack time of ENV2: play soft and there is a slow attack, play hard and there is a fast attack.

LEVER2 (Modulation Wheel) is used to control the AMPlitude of LFO1 modulating the Pulse Width, which results in chorusing and an apparent drop in octave.

S07 ELECTRIC Velocity controls many functions of this patch: volume (VCA1), brightness (Filter Frequency), and "snappiness" (Decay of ENV1, AMPLitude of ENV1 &2). Pressure causes a slight detuning of VCO1.

S78 D'AMMOND Velocity is used to control how loud the percussive effect becomes.

LEVER2 (Modulation Wheel) controls the speed of LFO1, which causes the chorus effect.

The patch is set up so that PEDAL2 (Sustain Pedal) can alternately be used to control the chorusing speed. However, stepping on the Sustain Pedal causes the chorusing to gradually speed up. How? PEDAL2 is routed to the Lag Processor, which is then routed to the Speed of LFO1. Pressing the Pedal causes the value of PEDAL2 to instantly change from 0 to 63. The Lag Processor slows down the rate of change, so that the result is a gradual (rather than sudden) increase. This is also why the chorusing gradually slows down when the Pedal is released.

In addition, exactly how slow the chorusing speeds up and slows down is modulated by the KEYBD (negatively modulating the LAG RATE) so that higher pitched notes speed up faster than lower ones.

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SINGLE PATCHES

00 SYNCOM 8	30 MELOCOMP	60 FATNESS
01 BOXBRASS	31 VELOBRAS	61 BASS-SYN
02 PA-ANO 2	32 E.PIANO	62 HARPSI
03 STRINGS2	33 BOWEDVIO	63 SF-FLUTE
04 SPIZWAT	34 VIBES	64 WOBBLES
05 STRIANO	35 D-1	65 HORN ENS
06 S.GENVIV	36 ROCK TOM	66 DIGDELAY1
07 STEELDRM	37 MUZIKBOX	67 VOX COMBO
08 UNISON 2	38 TIMPANI	68 COWBELL
09 WEIRDLFO	39 OH WOW	69 JUNGLE
10 GEOFFUNK	40 DISTORTD	70 SYNTH4
11 FANFARE	41 BRASS 1	71 JAZZBASS
12 TACPIANO	42 OUR SONG	72 HRPSCHRD
13 2PSTRING	43 STINGS	73 BASSREED
14 AMS II	44 SOFDELAY	74 MYSTERY
15 RAMP 1	45 FAKE-DBL	75 GUITAR2
16 8 TVS	46 BAMBOO	76 HIPLSWRL
17 ORCHBELL	47 KLANGRUS	77 PLUKFLUT
18 MARIMBA	48 ZAP	78 PAISLEYS
19 OLDSPACE	49 E.HIHAT	79 RUSHREZZ
20 PHASEPAD	50 APOLLO	80 SWEEPER
21 BRASS 1	51 ENSBRASS	81 JOCKO
22 E.PIANO3	52 PA-ANO 1	82 FUZZCLAV
23 STRINGS1	53 S-STRING	83 OBOEHEIM
24 TINKERBL	54 JACN'BOX	84 DELAY RZ
25 TINGO	55 ENSEMBLE	85 HARP
26 SAMPLETY	56 FM-ECHO	86 EFEMBUZZ
27 PIPES	57 ORGAN 2	87 HAMNCHEZ
28 SCRATCH2	58 TRIGOID	88 THE BEAM
29 SPARKLES	59 FINCHES	89 AIR REZZ
		90 VCF-FMOD
		91 SNBASS 2
		92 CLAVA
		93 FLUTE 3
		94 NASTYSAW
		95 E. BANJO
		96 MINDLINK
		97 CALLIOPE
		98 BUGFARTS
		99 BLANK

Arrangement -

X0 = Comp

X1 = Brass/Bass

X2 = Piano/Harpschd/Clav

X3 = Strings/Woodwinds

X4 = Tined

X5 = Symphonic

X6 = Spacey

X7 = Bells/Organ

X8 = Percussive/Misc.

X9 = Effects/Misc.

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MULTI PATCHES

00	SYNCOM 8	30	blank	60	SYNCOM 8
01	BOXBRASS	31	blank	61	BOXBRASS
02	PA-ANO 2	32	blank	62	PA-ANO 2
03	STRINGS2	33	blank	63	STRINGS2
04	SPIZWAT	34	blank	64	SPIZWAT
05	STRIANO	35	blank	65	STRIANO
06	S.GENVIV	36	blank	66	S.GENVIV
07	PIPES	37	blank	67	PIPES
08	UNISON 2	38	blank	68	UNISON 2
09	ENSEMBLE	39	blank	69	ENSEMBLE
10	SOLOBASS	40	MODULA 1	70	blank
11	BASS+ORG	41	blank	71	blank
12	blank	42	blank	72	blank
13	blank	43	blank	73	blank
14	blank	44	blank	74	blank
15	blank	45	blank	75	blank
16	blank	46	blank	76	blank
17	blank	47	blank	77	blank
18	blank	48	blank	78	blank
19	blank	49	blank	79	blank
20	blank	50	SYNCOM 8	80	blank
21	blank	51	BOXBRASS	81	blank
22	blank	52	PA-ANO 2	82	blank
23	blank	53	STRINGS2	83	blank
24	blank	54	SPIZWAT	84	blank
25	blank	55	STRIANO	85	blank
26	blank	56	S.GENVIV	86	blank
27	blank	57	PIPES	87	blank
28	blank	58	UNISON 2	88	blank
29	blank	59	ENSEMBLE	89	blank
				90	blank
				91	blank
				92	blank
				93	blank
				94	blank
				95	blank
				96	blank
				97	blank
				98	blank
				99	blank

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FACTORY STOCK PATCHES GUIDE

Vol. 2

SINGLE PATCHES

First Impression

00 TOTOHORN
01 STRANGS
02 2001
03 STRIANOV
04 E-PA-ANO
05 BIG SYN2
06 FM SLAP
07 ELECTRIC
08 LIMUIDZ
09 POLYPHON

Brass

10 BRAZZ
11 BRAZZMLT
12 VSYNBRAZ
13 SECTION
14 SYN HORN
15 RUBBER T
16 MONSTER
17 VELENSEM
18
19 BLANK

Strings

20 STRINGER
21 STRANREZ
22 FAMOUS \$
23 STRNGENT
24 VIAL'N
25 CHILLO
26 BOWEDVIO
27 STRGWILD
28 FLINGS
29 BLANK

Pianos

30 PRS-KOTO
31 FORTE -
32 FORTE #
33 FORTE +
34 ELECTR12
35 REZKEEZ
36 TANGENT
37 PIAMBA
38 GROWL EP
39 BLANK

Rhythm Comps

40 PURZCLAV
41 ZERIOUS
42 KLAVETTA
43 POGNOOT
44 OVERDRIV
45 SQUEEZER
46 VEL SYMN
47 PRESTUCH
48 AUTOMAT
49 BLANK

Symphonic Ensemble

50 <TUNNEL>
51 VIOGUITAR
52 S. VELCTY
53 LIQUID
54 COPELAND
55 WASTLAND
56 SAGAN'S
57 4MULT-80
58 4MULT+80
59 BLANK

Pitched Percussion

60 QUADBELL
61 EARDRILL
62 BELLO.
63 CARRILON
64 ROOMBELZ
65 ISLANDS
66 KARIMBA
67 WOODPERC
68 ST.HAPPI
69 CHIMESFT

Basses & Leads

70 V BASS
71 BASSITY
72 OBASSITY
73 SNBASS 2
74 SYNCBASS
75 SLEADWAH
76 GLASSVOX
77 RES SYN2
78 D'HAMMND
79 BLANK

Percussion

80 KICKDRM1
81 ACOU-SNR
82 "E"-TOM
83 PITCHIFF
84 "E" RIDE
85 V-TIMP
86 PLUKNOIZ
87 THUNDER
88 THUNDER2
89 BLANK

Effects

90 SS.N.J.
91 EKONOISE
92 1.5 WISS
93 DOWN-UP
94 LONGRISE
95 JUNK JAM
96 NOISENCH
97 DOWN-UP
98 INCOMING
99 BLANK

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MULTI PATCHES

First Impression

00 VOICE OF
01 SOUNTRAK
02 DBLBRAZZ
03 PNO HRN
04 THE WALL
05 SOLOBASS
06 POLYGRAN
07 FAT HAM*
08 ZONEBELL
09 BRS-ORCH

Basses

10 UNIPHON
11 SOLOBASS
12 OCTAVE B
13 OCT B/B
14 BELLBASS
15 FATFIFTH
16 HARMONIC
17 LEFTHAND
18 WOODBASS
19 BLANK BZ

Doubles

20 DBLBRAZZ
21 VIOLINT
22 HORNSTRG
23 DB MARIM
24 BASS+GTR
25 BASSHORN
26 LIM+CARI
27 OCTAHORN
28 PNO HORN
29 GUIT+PNO

30 TWINGUIT
31 5THBRASS
32 NEW AGE
33 ODE 2JOY
34 PIANOSTR
35 GLAZFLUT
36 2 PIANOZ
37 DUOGROWL
38 POLYELEC
39 BLANK DB

Leads

40 LEAD WAH
41 UNIHORN
42 UNI ORG
43 SATURATE
44 AARON 9
45 MADGROWL
46 THE WALL
47 WARRIOR
48 NO ANGEL
49 BLANK BZ

Triples

50 TPLCELLO
51 COZMOS
52 JAWS
53 KIEVGATE
54 3WAY STR
55 OCTAVIA+
56 PANABLOK
57 DBL+STRG
58 LAYERED
59 BLNK TPL

Zones

60 ZONEBELL
61 BASS+2GT
62 DRUMZONE
63 TROPICO
64 JAZZTRIO
65 SUPERSPLT
66 ZONEFOUR
67 BASS+PNO
68 RIDMSPLT
69 BLK ZONE

70 ZONE + 0
71 ZONE + 1
72 ZONE + 2
73 ZONE + 3
74 ZONE + 4
75 ZONE + 5
76 ZONE + 6
77 ZONE + 7
78 ZONE + 8
79 BLK ZONE

Programmed Detune & Pan

80 PRESSPAN
81 POLYGRAN
82 STEREO
83 STEREANA
84 FAT HAM*
85 BRS-ORCH
86 SOUNTRAK
87 blank
88 blank
89 blank

Stacked Multi Effects

90 FLAME ON
91 JUNK JAM
92 blank
93 blank
94 blank
95 blank
96 blank
97 blank
98 blank
99 blank