

OB-Xa

PROGRAMMED PATCHES



THE OB-Xa/120 FACTORY PROGRAMS

The OB-Xa/120 comes from the factory programmed with 104 patch programs, arranged in 13 groups of 8 programs each (the last 2 groups are blank). Also in the OB-Xa memory are 8 split programs and 8 double programs. These programs were designed, in close consultation with recording and performing keyboardists, to not only exhibit the many features of the OB-Xa, but to also provide a realistically usable collection of sounds for players of all types of music.

The programs are generally organized so that sounds representative of the same instrument families (i.e., pianos, organs, strings, brass) are placed in the same numerical locations. These sounds may be selected by choosing consecutive group letters. (For example, a "Brass Ensemble" is found in location A1, "French Horns" are found in B1, and a "Trumpet Ensemble" is found in location AB1.)

The Facsimiles of the OB-Xa front panel on the following pages are provided to allow the beginning synthesist, as well as the more accomplished player, a simple method for understanding the various components of a sound that are used in the creation of the factory patches. By setting the front panel controls as shown on the facsimiles, the user will hear first-hand the capabilities of the OB-Xa. These facsimiles are as accurate as possible; however, fine tuning the more critical parameters of the patch (oscillator and filter frequencies, detune, modulation depth, and envelopes) can make a substantial difference in the final sound. Moreover, this fine tuning can be utilized to tailor the OB-Xa factory patches to meet the user's individual taste and needs.

The explanations provided give special playing techniques that may be called for, as well as tips on the most effective use of the patch programs.

THE OB-Xa/120 FACTORY PATCH DIRECTORY

		Program							
Group		1	2	3	4	5	6	7	8
A	Brass Ensemble	Clavinet	Low Strings	Electric Piano	Rotary Organ	Flutes	Harpsichord	Rock Unison	
B	French Horns	Celeste	High Strings	Electronic Piano	Pipe Organ	Xa Chorus	Harp I	Calliope	
AB	Trumpet Ensemble	Harmonica	Strings I	Accordion	Filter Drone	Bag Pipes	Banjo	Rush Rezz	
C	Trumpets	Mellow Wow	Slow Strings	Resonance Sweep	Combo Organ	Double Reed	Farr's Funk	Pizzicato	
AC	Modern Horns	Bass I	4-Pole Strings	Reed Piano	Perc Organ	Sax	Harp II	Orient Unison	
BC	Tropical Horns	Rubber Clav	Strings II	Edge Piano	Hymn Organ	Recorder	Long Chimes	Unison Fear	
ABC	Comp Horns	Bells	Strings III	Soft Piano	Reed Organ	Vocal Wow	Marimba	Terror	
D	F-Env Horns	S/H Fifths	Poly Port	Steel Drums	Square Mod	Comp Synth	Unison Port	Delay Mod	
AD	Tenth Decay	Sitar	Fiddle	Pulse Comp	PW Rezz	Comedy Comp	Jazz Solo	Earthquake	
BD	S/H Port Rezz	Conga	Strings IV	Funk Keys	Organ	Tremolo Rezz	Box O' Pups	Martian Hop	
ABD	Claps	Carillon	Solo Strings	Tuned Bees	Rezz Reeds	Three Way	Percussion	Chopper	
CD	lo	S/H PW	Strings V	Clarinet	Bright Drone	Solo Unison	Claves	Jet	
ACD	Water Wiggle	Water Piano	Slower Strings	Flanged Piano	Space Bugs	Taped Voices	Thunder	Pong	
BCD ABCD									
		1	2	3	4	5	6	7	8

SPLIT AND DOUBLE PROGRAMS

In addition to the 104 patch programs, the OB-Xa/120 also contains 8 split programs and 8 double programs. These programs remember the upper patch program, the lower patch program, transpositions, balance, and in the case of splits, the split point.

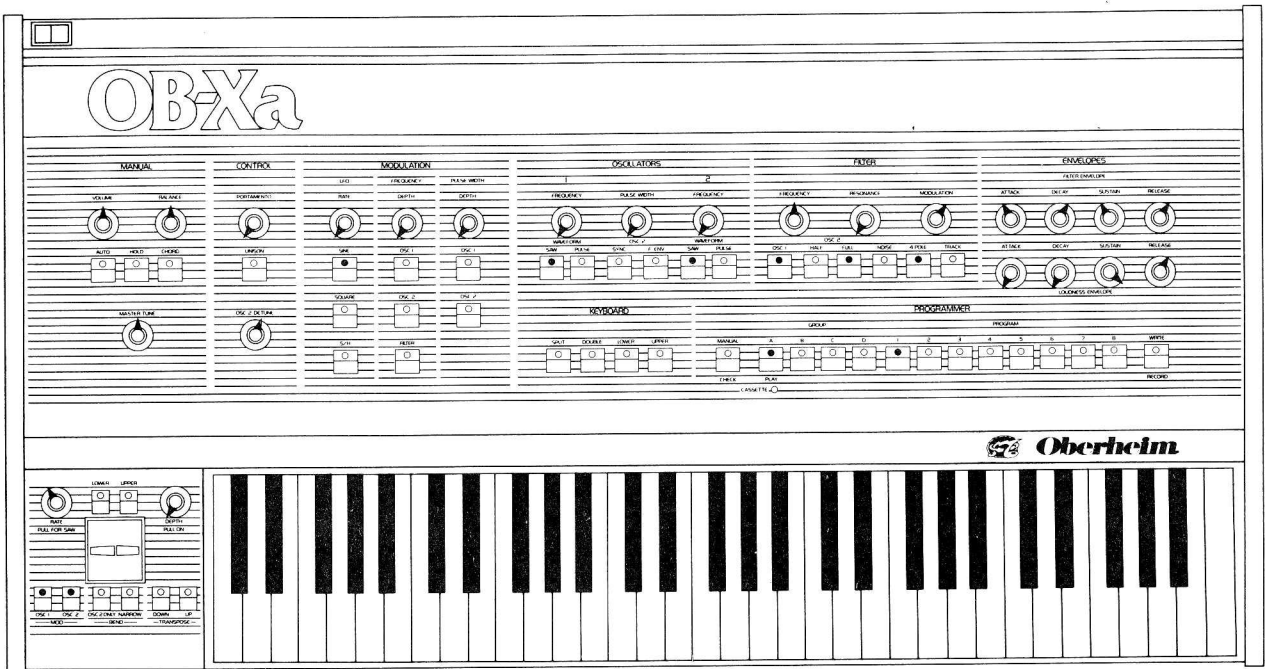
SPLIT PROGRAM DIRECTORY

Program	Lower Patch	Upper Patch	Split Point
1	AC2: Bass I	AC4: Reed Piano	C3
2	B5: Pipe Organ	AB8: Rush Rezz	C3
3	C1: Trumpet	C2: Mellow Wow	C3
4	A5: Rotary Organ	A4: Electric Piano	C3
5	CD5: Bright Drone	BD6: Tremolo Rezz	C3
6	BD2: Conga	AD2: Sitar (up one octave)	C3
7	D2: S/H Fifths	CD6: Solo Unison	C3
8	BC4: Edge Piano (up one octave)	AD7: Jazz Solo	F3

DOUBLE PROGRAM DIRECTORY

Program	Lower Patch	Upper Patch
1	A2: Clavinet	C2: Mellow Wow (down one octave)
2	C1: Trumpet	B1: French Horns
3	C8: Pizzicato (up one octave)	D6: Comp Synth
4	ACD4: Flanged Piano	ACD3: Slower Strings (up one octave and a fifth)
5	AC5: Percussive Organ	CD6: Solo Unison
6	ABC4: Soft Piano	BC4: Edge Piano
7	ACD2: Water Piano	ABD2: Carillon (down a fourth)
8	BD3: Strings IV	ABC3: Strings III

The Patches on the OB-Xa/120 were programmed by Todd McKinney, with additional programming by Daniel Sofer, Marcus Ryle, Mike Christopher, Geoff Farr, and Don Miele.



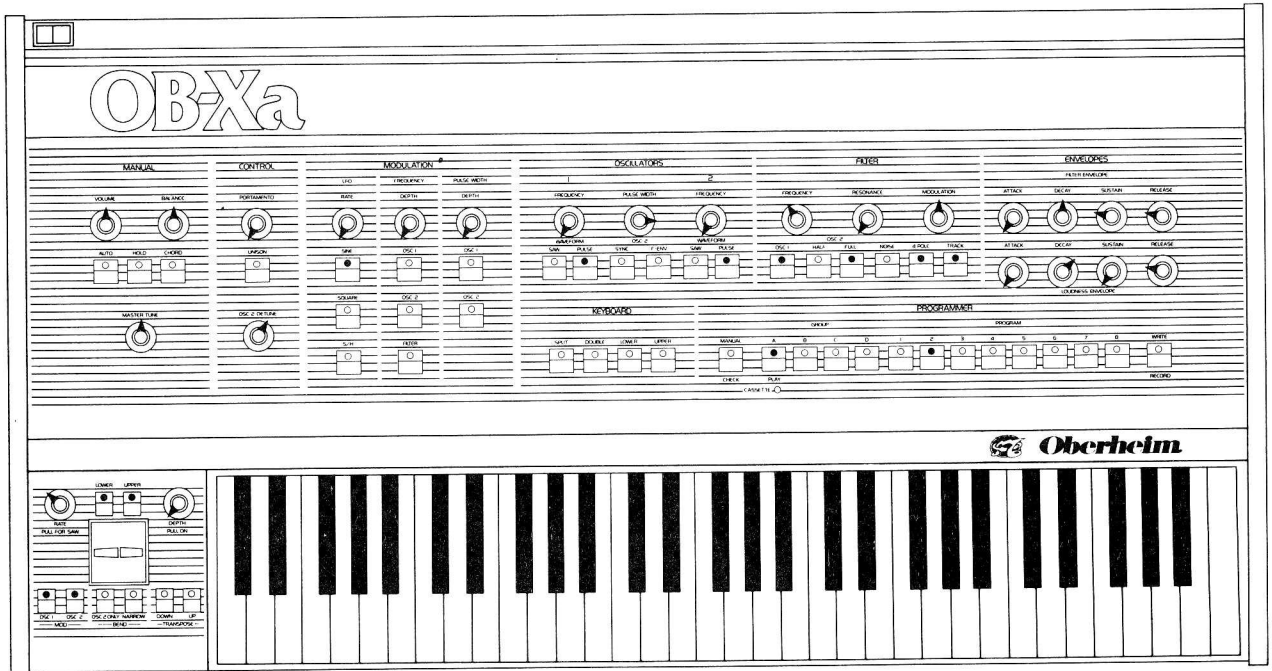
A1: Brass Ensemble

VC01—Normal Pitch

VC02—Normal Pitch

Filter envelope modulation creates the dynamic effect of this patch. The filter pedal is useful in adding more dynamic possibilities.

NOTES: _____



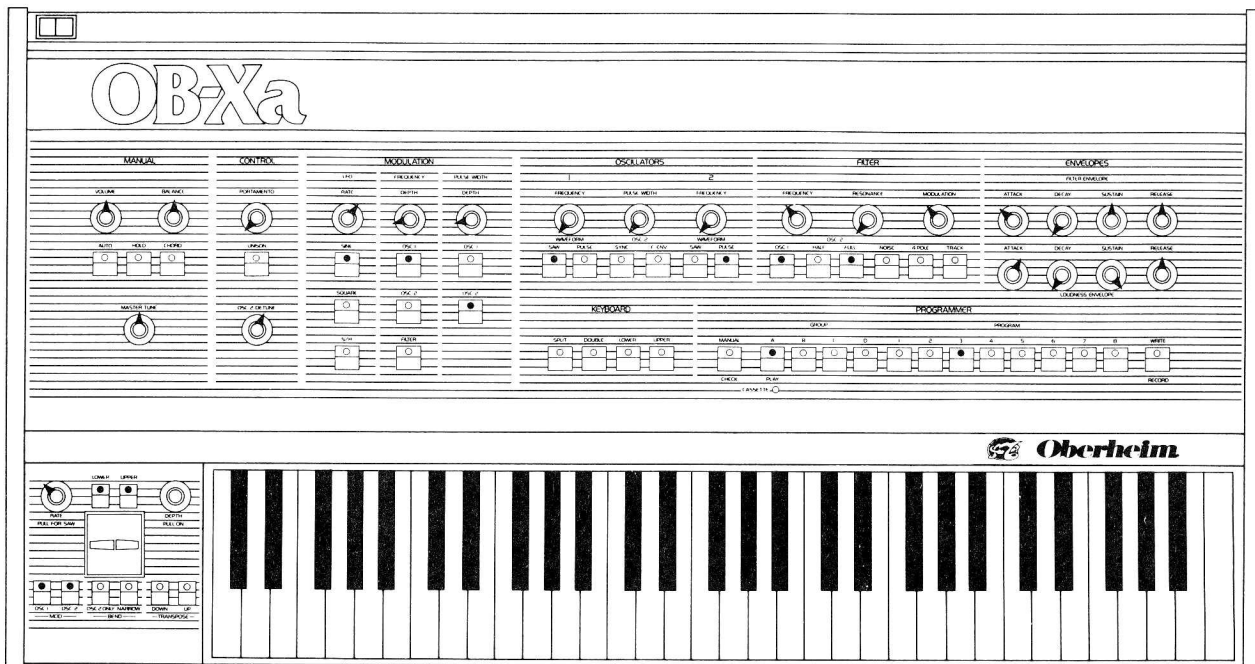
A2: Clavinet

VC01—Normal Pitch

VC02—Normal Pitch

Resonance may be added to create a funkier edge. A staccato style of playing should be used to simulate a realistic Clavinet sound.

NOTES: _____



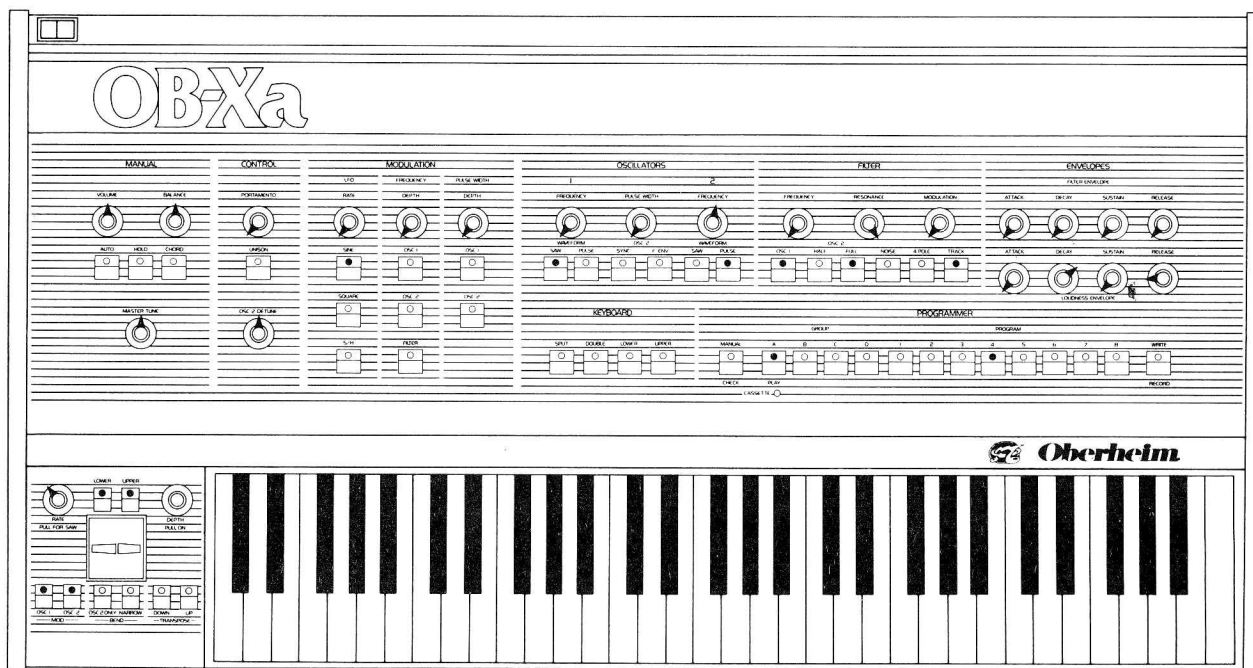
A3: Low Strings

VCO1—Normal Pitch

VCO2—Normal Pitch

The combination of pulse and sawtooth waveforms, along with frequency and pulse width modulation, add a more complex ensemble effect to this patch. Experiment with staccato accompaniment and legato melody phrases.

NOTES: _____



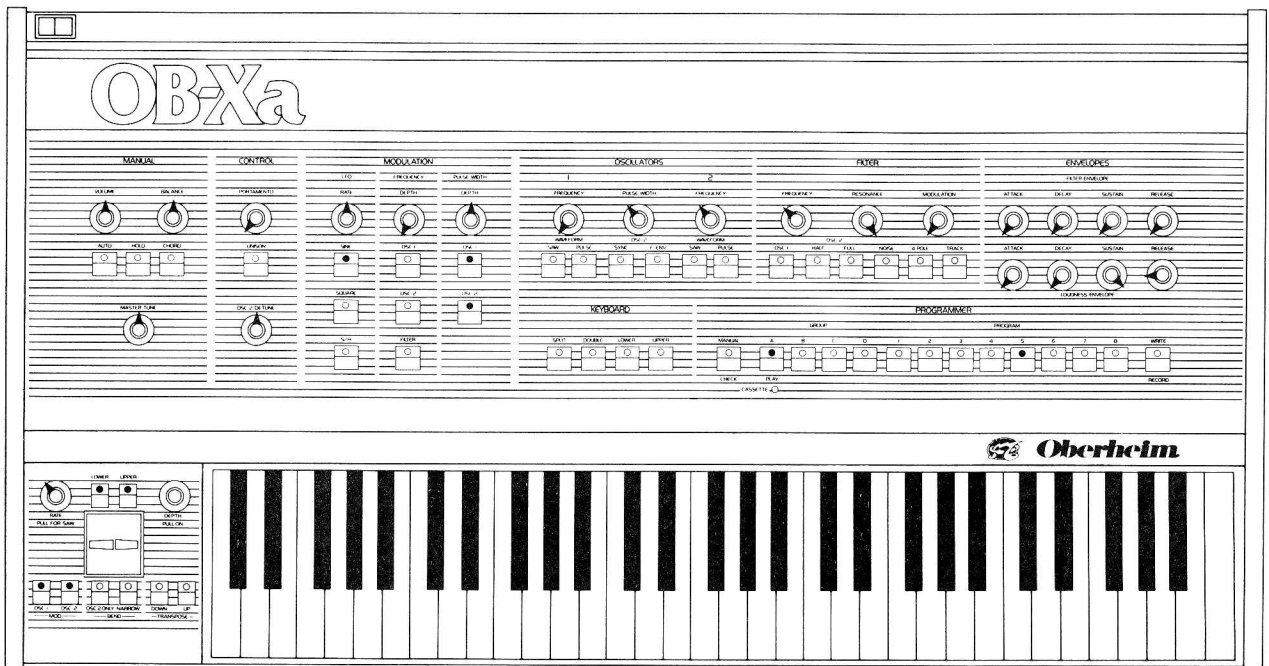
A4: Electric Piano

VCO1—Normal Pitch

VCO2—Two Octaves and a Major Seventh Up

VCO2 simulates the sound of the tines of an electric piano.

NOTES: _____



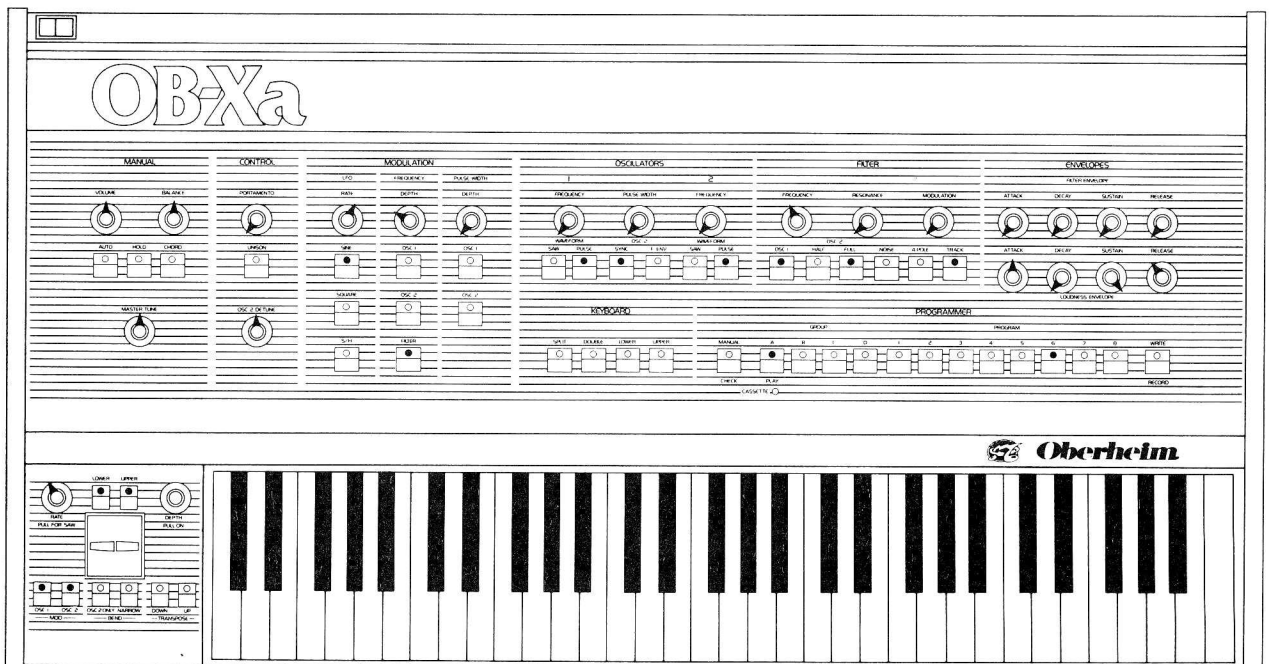
A5: Rotary Organ

VC01—Normal Pitch

VC02—Two Octaves Up

Pulse width modulation creates the rotary speaker effect on this patch. The LFO rate may be varied to simulate different rotary speaker speeds.

NOTES: _____



A6: Flutes

VC01—Normal Pitch

VC02—Normal Pitch

The LFO rate and modulation depth may be varied to change the tremolo.

NOTES: _____

OB-Xa

MANUAL
 VOLUME, SOFT/HEAVY, AUTO, HOLD, CHORD, MULTITRIG

CONTROL
 PORTAMENTO, LFO, OSC 2 FREQ TIME

MODULATION
 LFO, FREQUENCY, PULSE WIDTH, RATE, DEPTH, OSC 1, OSC 2, OSC 3, SCHEM, FILTER

OSCILLATORS
 1: FREQUENCY, PULSE WIDTH, WAVEFORM, SINE, SQUARE, SAW, PULSE, OSC 2, OSC 3, OSC 4

FILTER
 FREQUENCY, RESONANCE, MODULATION, OSC 1, OSC 2, OSC 3, OSC 4, HOLD, LATCH, RANGE, FREQ, TRACK

ENVELOPES
 FILTER ENVELOPE: ATTACK, DECAY, SUSTAIN, RELEASE
 AMPLITUDE ENVELOPE: ATTACK, DECAY, SUSTAIN, RELEASE

PROGRAMMER
 BANK, PROGRAM, WRITE, ERASE, RECORD

Oberheim

A7: Harpsichord

VC01—Normal Pitch
 VC02—One Octave Up

NOTES: _____

OB-Xa

MANUAL
 VOLUME, SOFT/HEAVY, AUTO, HOLD, CHORD, MULTITRIG

CONTROL
 PORTAMENTO, LFO, OSC 2 FREQ TIME

MODULATION
 LFO, FREQUENCY, PULSE WIDTH, RATE, DEPTH, OSC 1, OSC 2, OSC 3, SCHEM, FILTER

OSCILLATORS
 1: FREQUENCY, PULSE WIDTH, WAVEFORM, SINE, SQUARE, SAW, PULSE, OSC 2, OSC 3, OSC 4

FILTER
 FREQUENCY, RESONANCE, MODULATION, OSC 1, OSC 2, OSC 3, OSC 4, HOLD, LATCH, RANGE, FREQ, TRACK

ENVELOPES
 FILTER ENVELOPE: ATTACK, DECAY, SUSTAIN, RELEASE
 AMPLITUDE ENVELOPE: ATTACK, DECAY, SUSTAIN, RELEASE

PROGRAMMER
 BANK, PROGRAM, WRITE, ERASE, RECORD

Oberheim

A8: Rock Unison

VC01—Off
 VC02—Normal Pitch

NOTES: _____

OB-Xa

MANUAL
 VOLUME SW. MODE AUTO HOLD LOCKED
 MASTER TUNE

CONTROL
 PHASE/AMOUNT
 OSC. 2 DETUNE

MODULATION
 LFO FREQUENCY DEPTH WAVE/SHAPES
 OSC. 1 OSC. 2 OSC. 3
 SYNC

OSCILLATORS
 1 2
 FREQUENCY PULSE WIDTH FREQUENCY
 WAVEFORM OSC. 1 OSC. 2 WAVEFORM
 LFO OSC. 1 OSC. 2 OSC. 3

FILTER
 FREQUENCY RESONANCE MODULATION
 OSC. 2 HOLD FILTER ENVELOPE TRUCK
 ATTACK DECAY SUSTAIN RELEASE

ENVELOPES
 MULTI-OCTAVE
 ATTACK DECAY SUSTAIN RELEASE
 SMOOTH ENVELOPE

KEYBOARD
 SCALE CHORD LATCH LEGATO
 CHORD BLEND

PROGRAMMER
 GROUP PROGRAM
 MANUAL A B C D 1 2 3 4 5 6 7 8 9 10
 TRIG. BLEND RECORD

Oberheim

B1: French Horns

VC01—Normal Pitch

VC02—Normal Pitch

The sync function may be deleted for a more ensemble effect. Experiment with the filter frequency for varied timbral possibilities.

NOTES: _____

OB-Xa

MANUAL
 VOLUME SW. MODE AUTO HOLD LOCKED
 MASTER TUNE

CONTROL
 PHASE/AMOUNT
 OSC. 2 DETUNE

MODULATION
 LFO FREQUENCY DEPTH WAVE/SHAPES
 OSC. 1 OSC. 2 OSC. 3
 SYNC

OSCILLATORS
 1 2
 FREQUENCY PULSE WIDTH FREQUENCY
 WAVEFORM OSC. 1 OSC. 2 WAVEFORM
 LFO OSC. 1 OSC. 2 OSC. 3

FILTER
 FREQUENCY RESONANCE MODULATION
 OSC. 2 HOLD FILTER ENVELOPE TRUCK
 ATTACK DECAY SUSTAIN RELEASE

ENVELOPES
 MULTI-OCTAVE
 ATTACK DECAY SUSTAIN RELEASE
 SMOOTH ENVELOPE

KEYBOARD
 SCALE CHORD LATCH LEGATO
 CHORD BLEND

PROGRAMMER
 GROUP PROGRAM
 MANUAL A B C D 1 2 3 4 5 6 7 8 9 10
 TRIG. BLEND RECORD

Oberheim

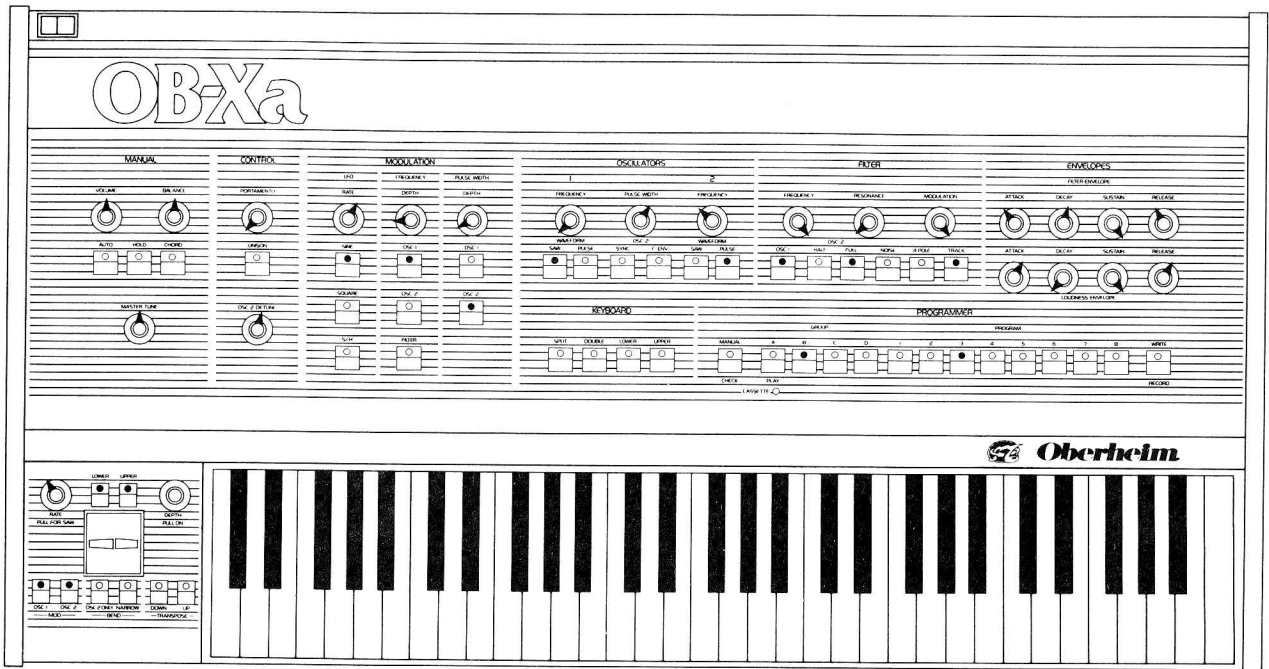
B2: Celeste

VC01—Normal Pitch

VC02—Major Seventh Up

When played in the upper octaves, this patch simulates a music box.

NOTES: _____



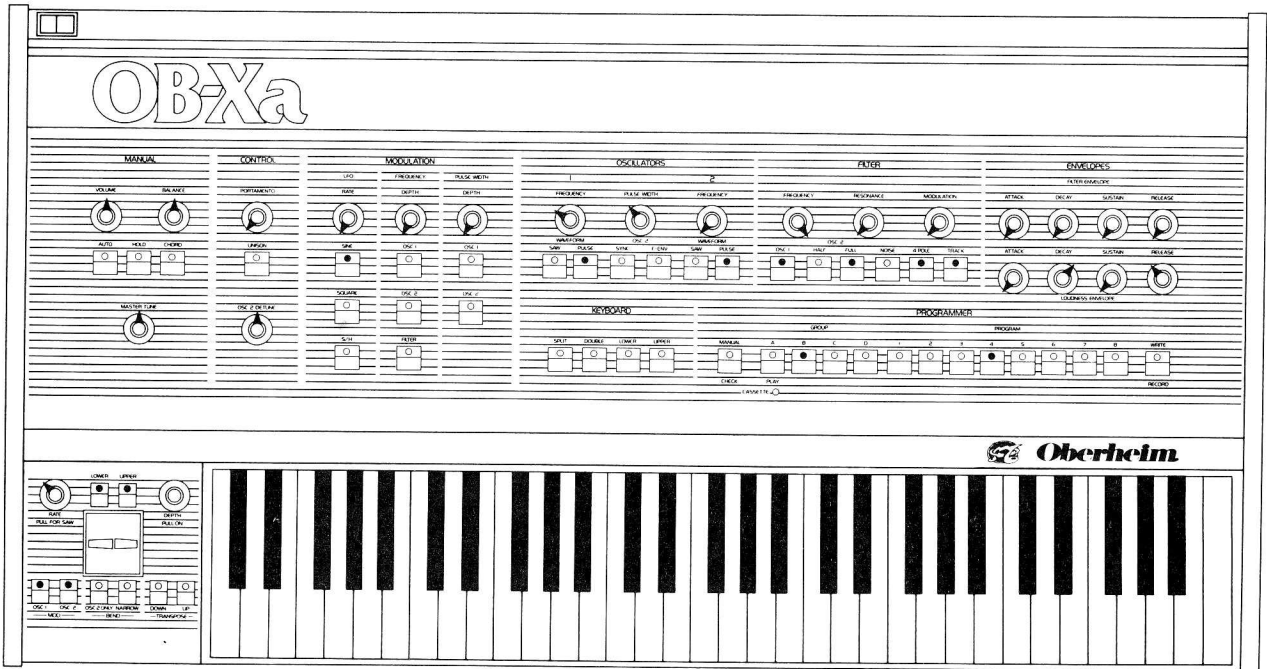
B3: High Strings

VC01—Normal Pitch

VC02—One Octave Up

As with all the string patches, try varying the filter frequency and envelope parameters.

NOTES: _____



B4: RMI Piano

VC01—Normal Pitch

VC02—One Octave Up

NOTES: _____

OB-Xa

MANUAL
 VOLUME SW-SWITCH
 AUTO HOLD CHORD
 MANUAL TUNE

CONTROL
 CONTINUEDLY
 JUMP
 OSC 1/2 TUNE

MODULATION
 LFO FREQUENCY OSC. DEPTH OSC. 2/3 DEPTH
 LFO OSC. 1 OSC. 2 OSC. 3
 SCHEM. FILTER

OSCILLATORS
 I II
 FREQUENCY PULSE WIDTH FREQUENCY
 WAVEFORM OSC. 1/2 OSC. 2/3 OSC. 3/4
 SAW PULSE SINE F. LFO SAW PULSE

FILTER
 FREQUENCY RESONANCE MODE/KEYEN
 OSC. 1 OSC. 2 OSC. 3
 OSC. 1 OSC. 2 OSC. 3

ENVELOPES
 PATT. ENVELOPE
 ATTACK DELAY SUSTAIN RELEASE
 ATTACK DELAY SUSTAIN RELEASE
 LOGIC/LS SWITCH

KEYBOARD
 HOLD CHORD
 CHECK

PROGRAMMER
 MEMORY
 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 CHECK RUN RECORD

Oberheim

B5: Pipe Organ

VC01—Normal Pitch

VC02—Three Octaves Up

Try adding resonance for a more noticeable filter sweep.

NOTES: _____

OB-Xa

MANUAL
 VOLUME SW-SWITCH
 AUTO HOLD CHORD
 MANUAL TUNE

CONTROL
 CONTINUEDLY
 JUMP
 OSC 1/2 TUNE

MODULATION
 LFO FREQUENCY OSC. DEPTH OSC. 2/3 DEPTH
 LFO OSC. 1 OSC. 2 OSC. 3
 SCHEM. FILTER

OSCILLATORS
 I II
 FREQUENCY PULSE WIDTH FREQUENCY
 WAVEFORM OSC. 1/2 OSC. 2/3 OSC. 3/4
 SAW PULSE SINE F. LFO SAW PULSE

FILTER
 FREQUENCY RESONANCE MODE/KEYEN
 OSC. 1 OSC. 2 OSC. 3
 OSC. 1 OSC. 2 OSC. 3

ENVELOPES
 PATT. ENVELOPE
 ATTACK DELAY SUSTAIN RELEASE
 ATTACK DELAY SUSTAIN RELEASE
 LOGIC/LS SWITCH

KEYBOARD
 HOLD CHORD
 CHECK

PROGRAMMER
 MEMORY
 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 CHECK RUN RECORD

Oberheim

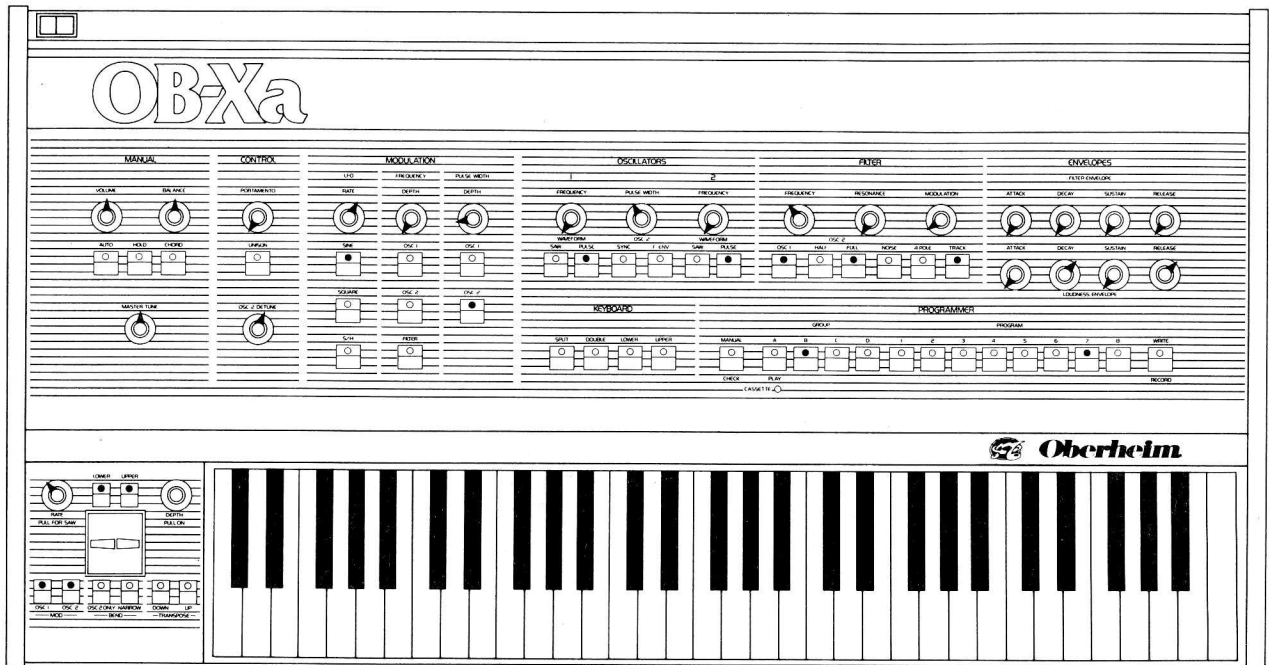
B6: Xa Chorus

VC01—One Octave Up

VC02—One Octave Up

A legato style of playing is most suited to this patch.

NOTES: _____



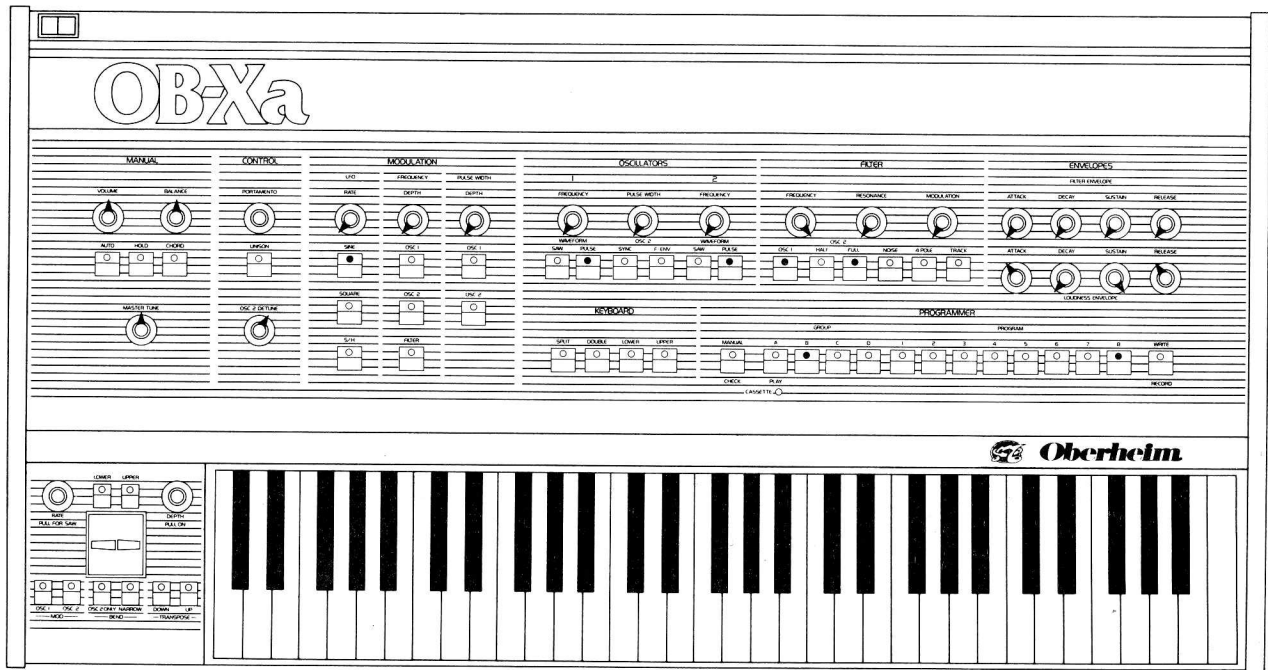
B7: Harp

VC01 — Normal Pitch

VC02 — Normal Pitch

Try shortening the loudness attack and release to change this patch from a "harp" to a simple organ sound.

NOTES: _____



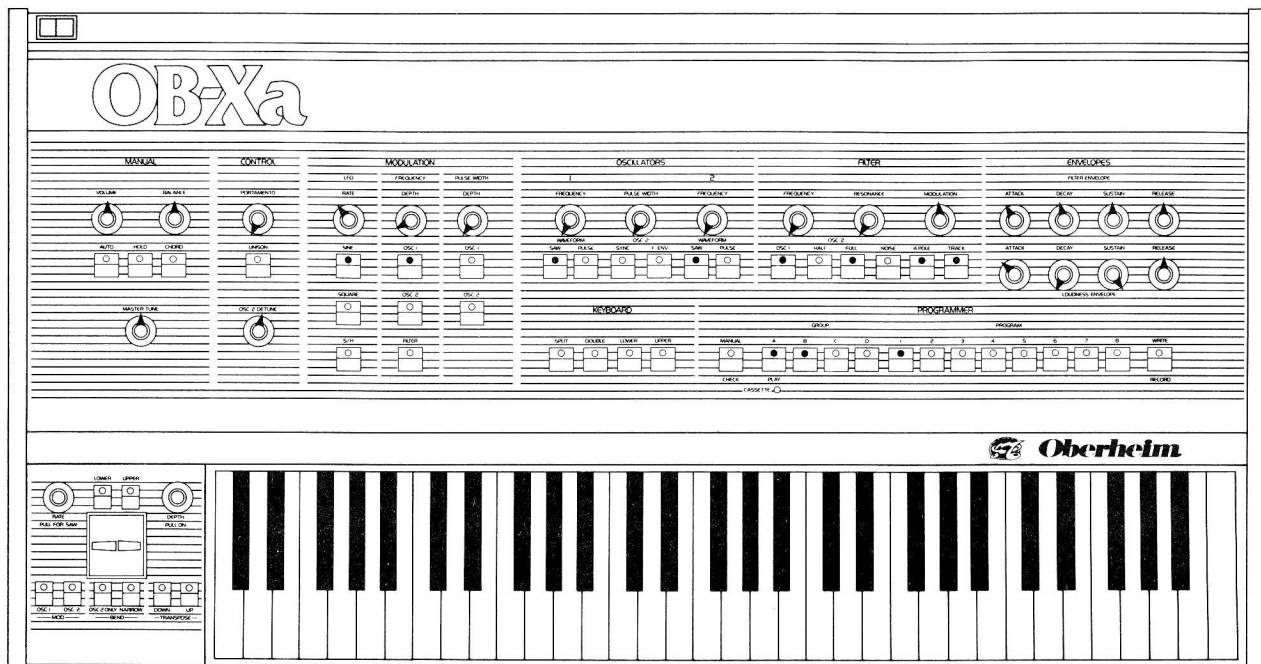
B8: Calliope

VC01 — Normal Pitch

VC02 — Normal Pitch

VC02 detuning and frequency modulation generate the out-of-tune effect of the calliope.

NOTES: _____

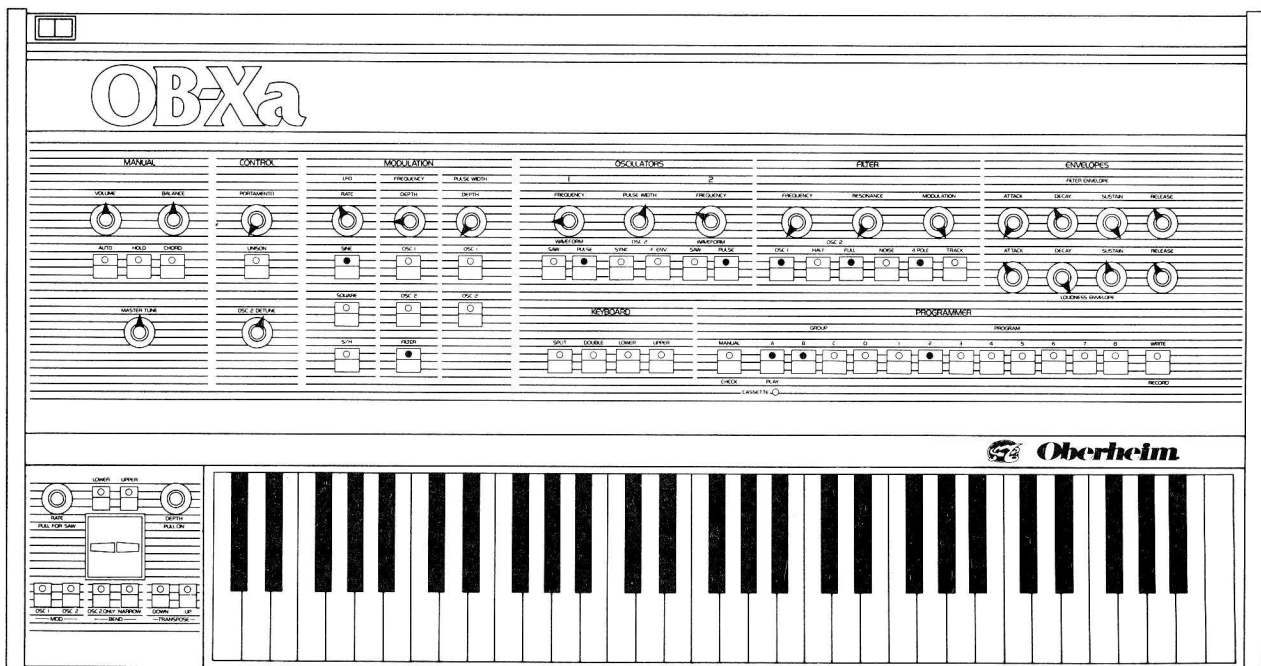


AB1: Trumpet Ensemble

VC01—Normal Pitch

VC02—Normal Pitch

NOTES: _____



AB2: Harmonica

VC01—One Octave Up

VC02—One Octave Up

Use in conjunction with narrow pitch bend.

NOTES: _____

AB3: Strings I

VC01—Normal Pitch

VC02—Normal Pitch

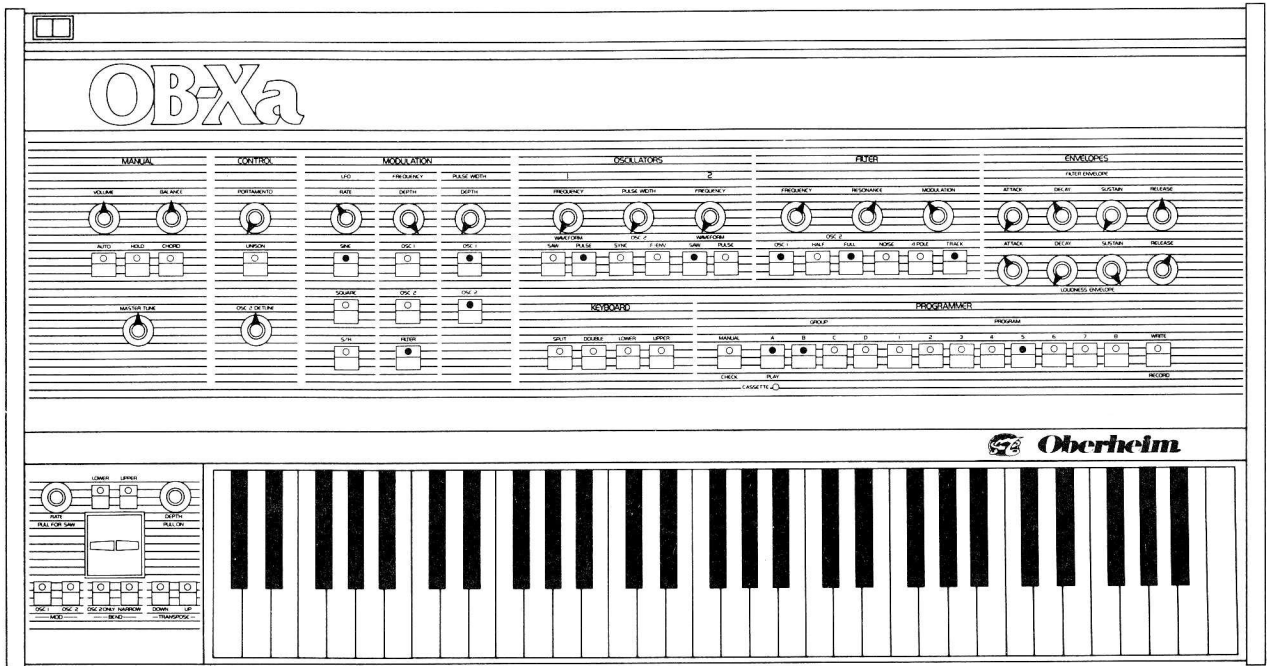
NOTES: _____

AB4: Accordion

VC01—Normal Pitch

VC02—One Octave Up

NOTES: _____



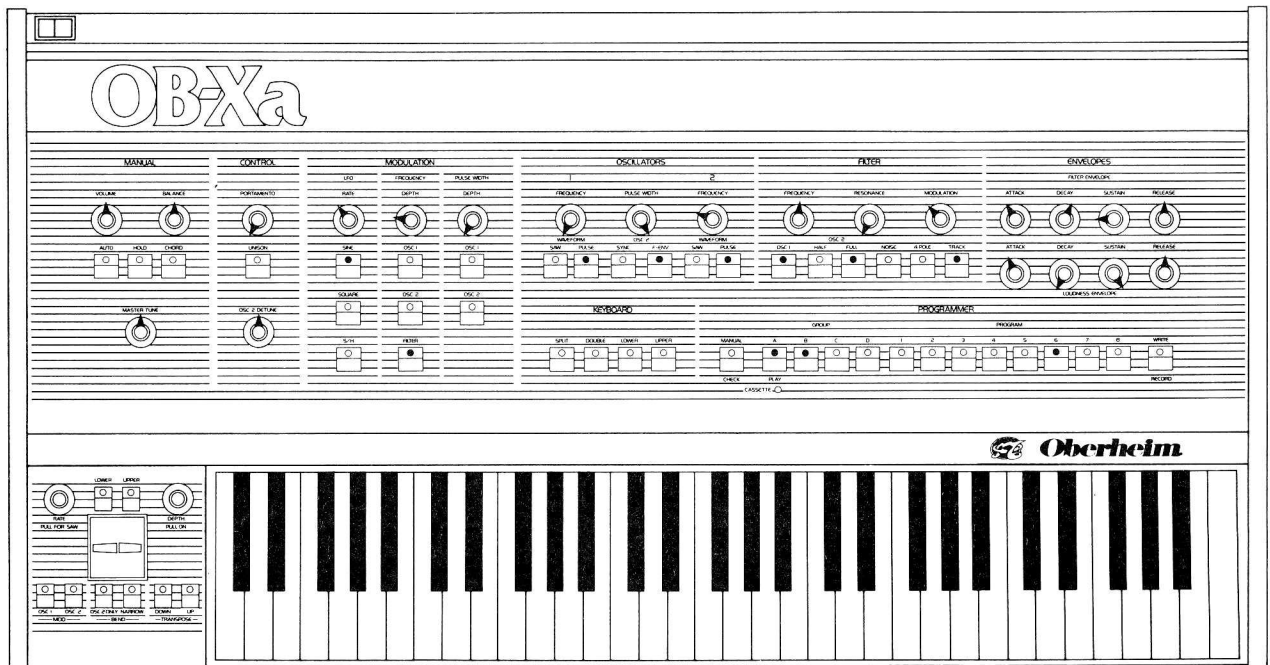
AB5: Filter Drone

VC01—Normal Pitch

VC02—Normal Pitch

The LFO speed can be altered to change the modulation rate.

NOTES: _____



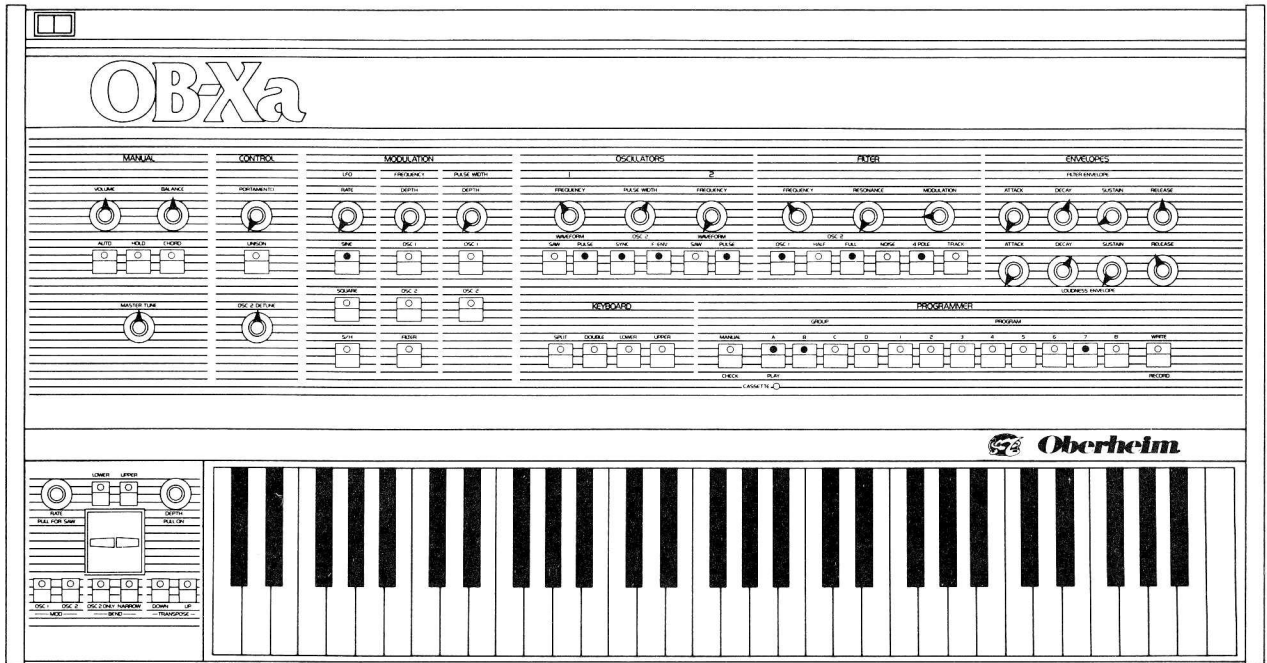
AB6: Bag Pipes

VC01—Normal Pitch

VC02—One Octave Up

To best simulate the pipes, place note A₂ on HOLD, and play in the key of A major.

NOTES: _____



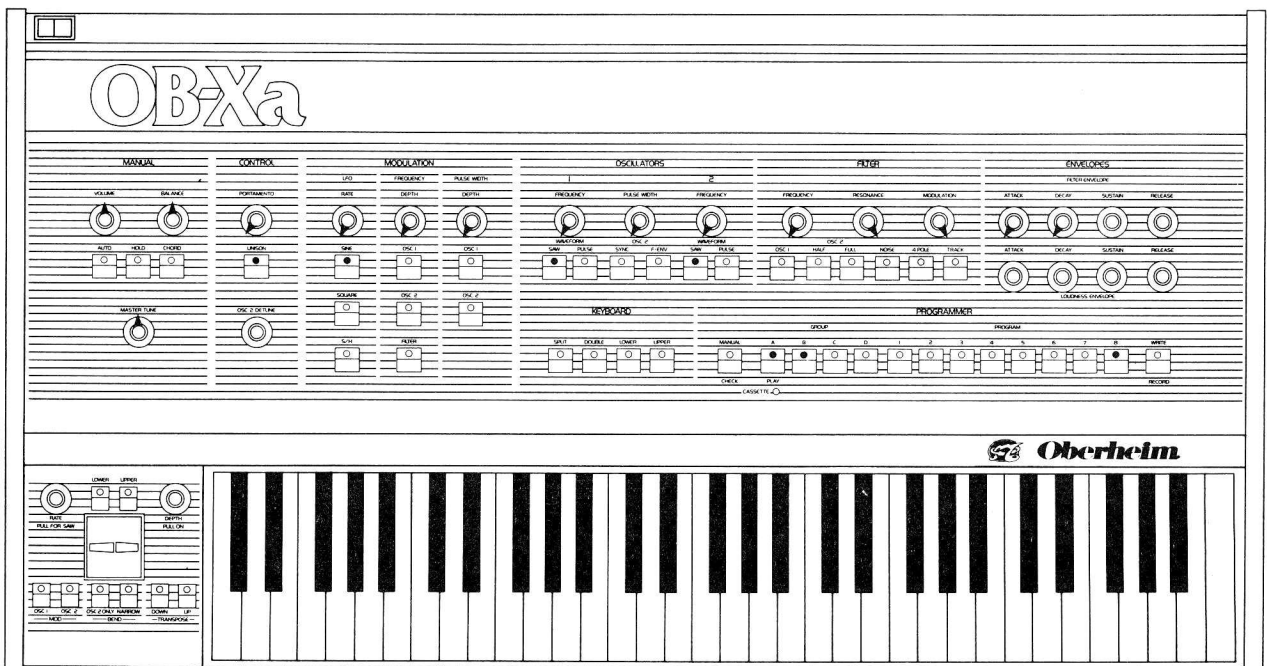
AB7: Banjo

VC01 — One Octave Up

VC02 — Normal Pitch

Look Out, Earl Scruggs.

NOTES: _____



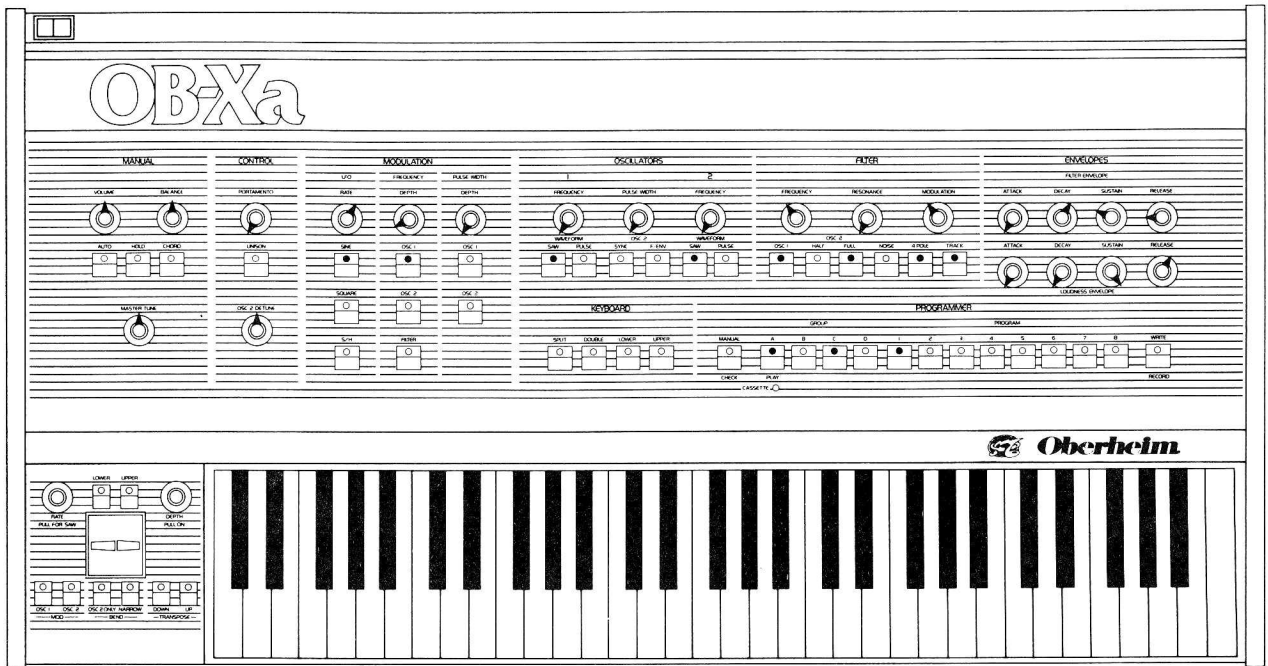
AB8: Rush Rezz

VC01 — Normal Pitch

VC02 — Normal Pitch

Play C down transpose for full effect.

NOTES: _____



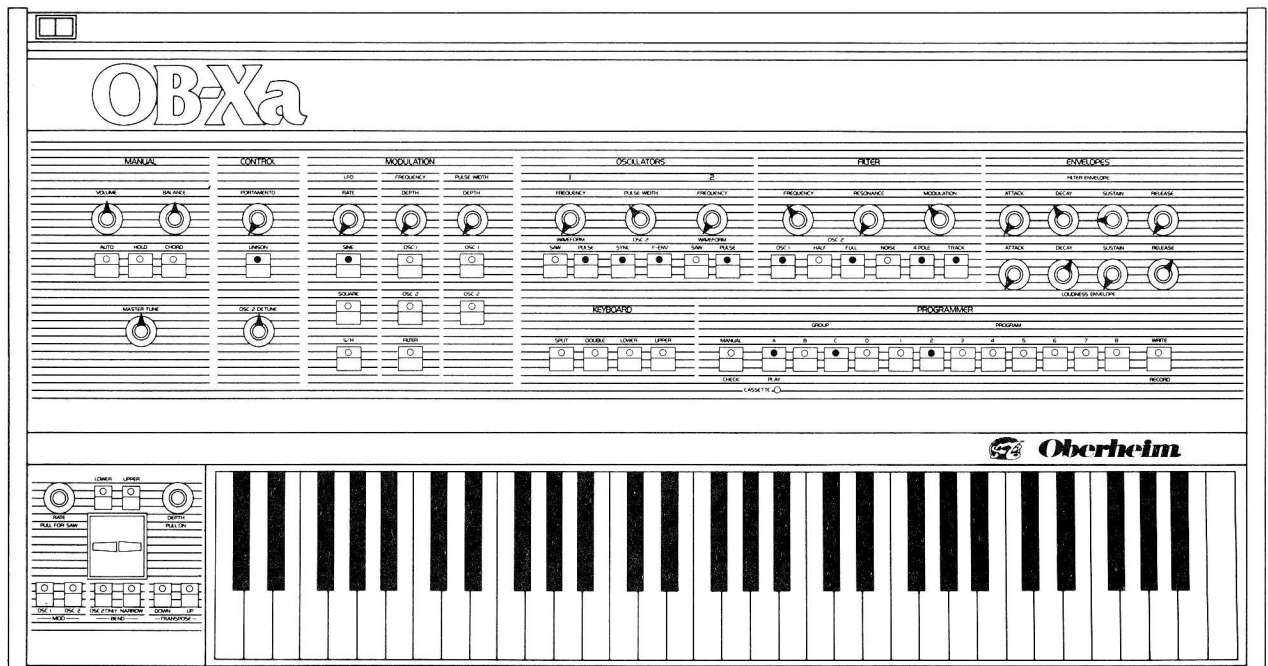
AC1: Modern Horns

VC01—Normal Pitch

VC02—Normal Pitch

Change the filter frequency for a variety of timbres.

NOTES: _____



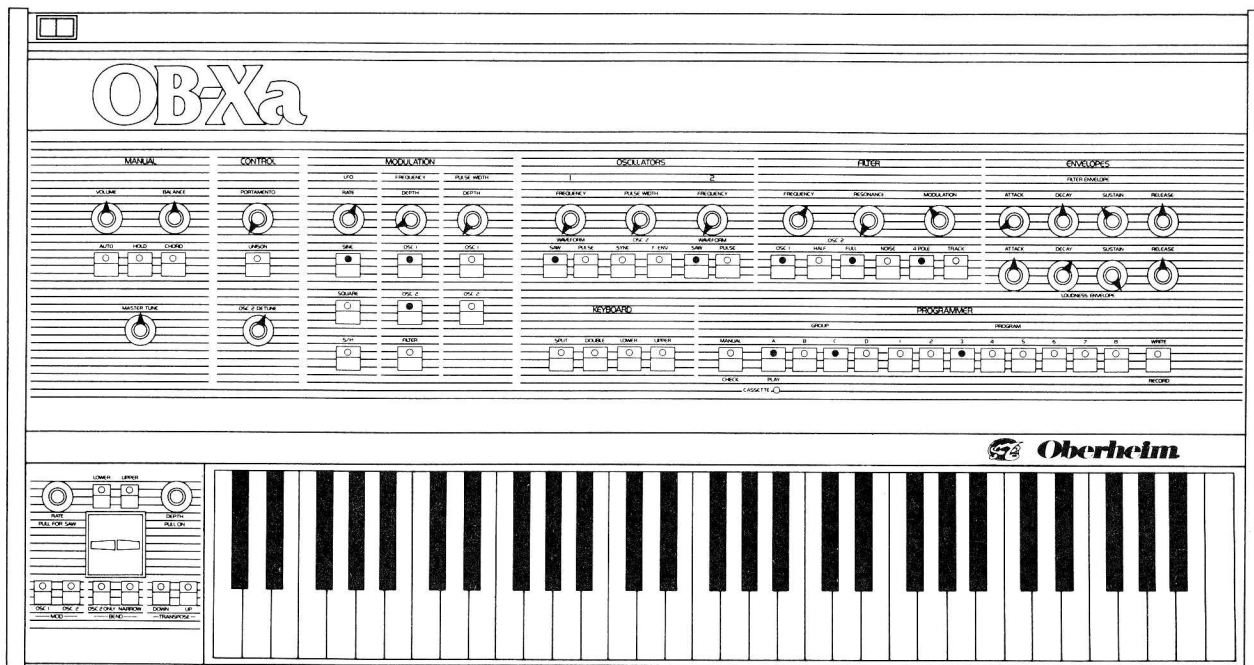
AC2: Bass I

VC01—Normal Pitch

VC02—Normal Pitch

Modulation via the filter envelope adds the spectrum edge. Tweak as necessary.

NOTES: _____

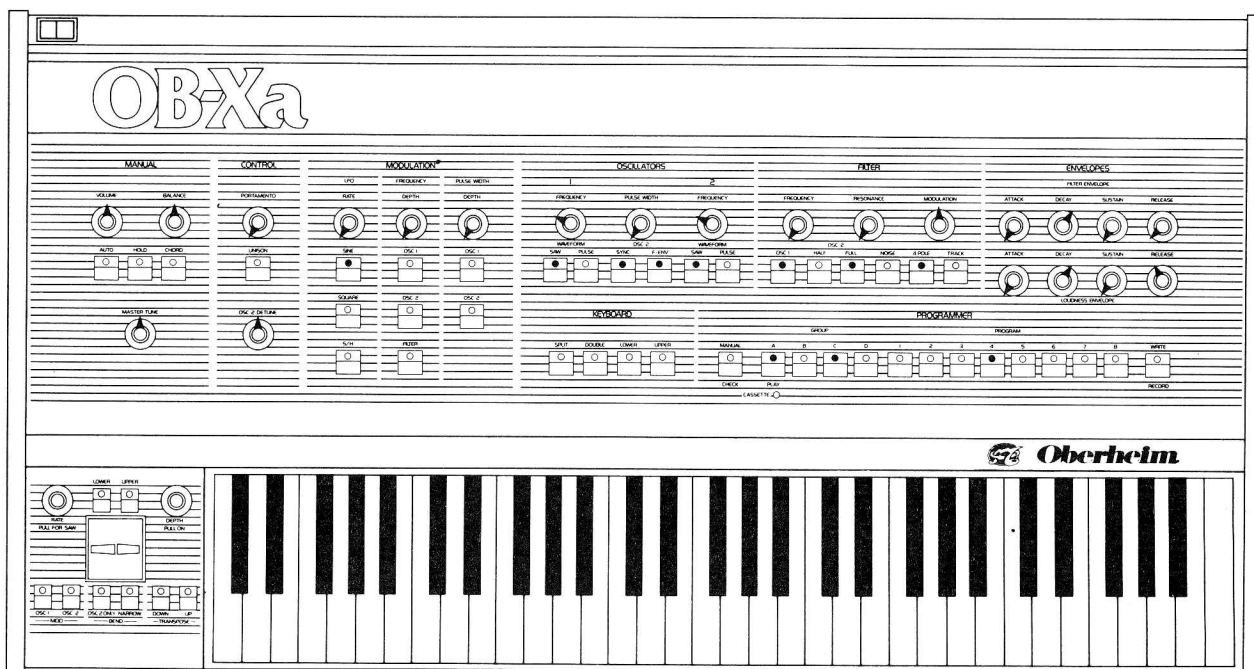


AC3: Four Pole Strings

VC01—Normal Pitch

VC02—Normal Pitch

NOTES: _____

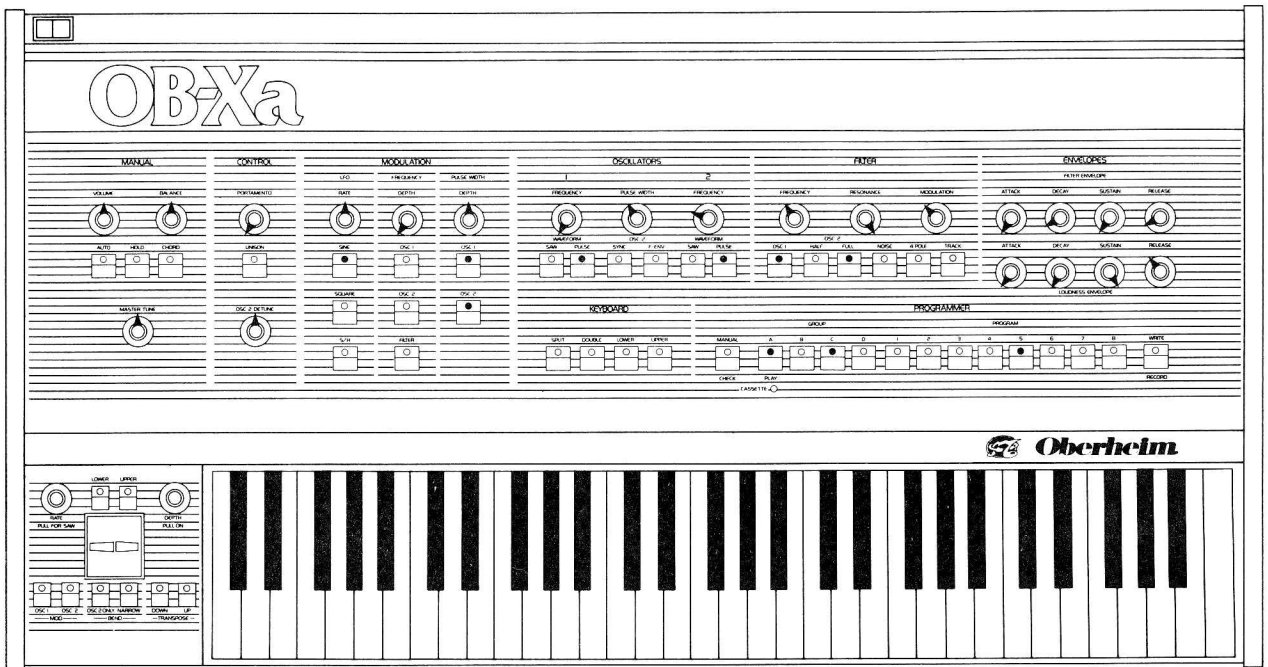


AC4: Reed Piano

VC01—One Octave Up

VC02—One Octave Up

NOTES: _____



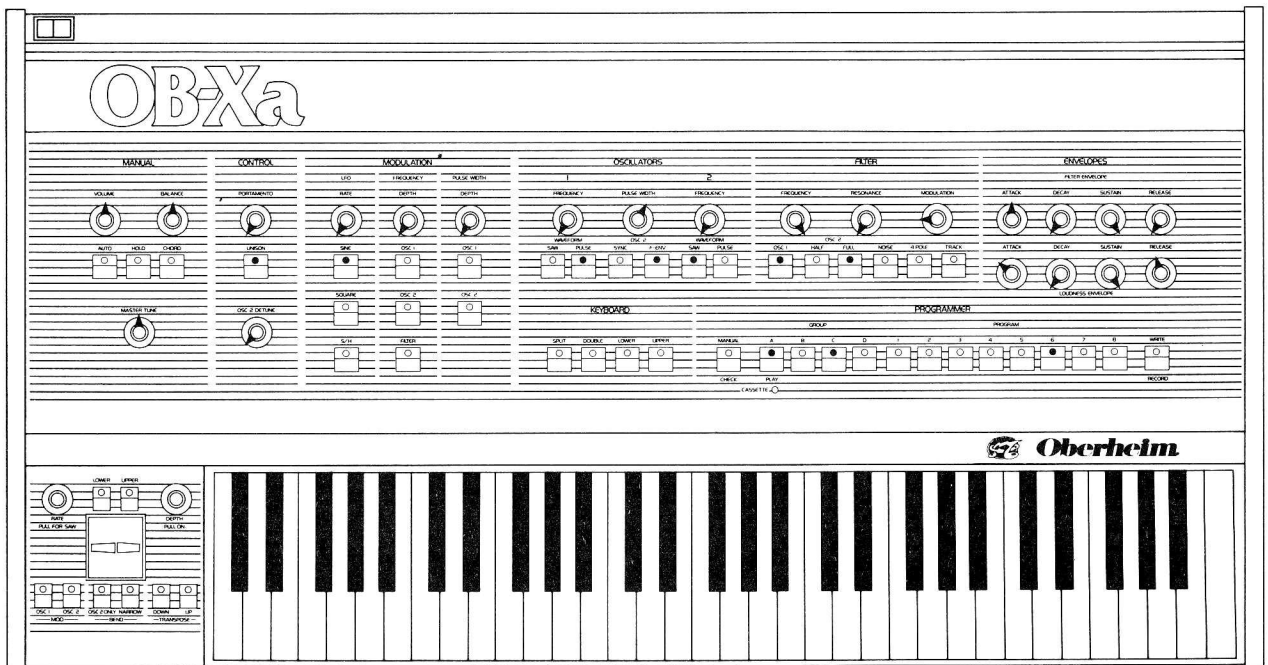
AC5: Perc Organ

VC01—Normal Pitch

VC02—One Octave Up

The filter cutoff frequency is set to the pitch of VC02 to accentuate the second harmonic.

NOTES: _____



AC6: Sax

VC01—Normal Pitch

VC02—Normal Pitch

NOTES: _____

OB-Xa

MANUAL
 VOLUME BALANCE
 REPEAT HOLD LOCK
 MASTER TUNE

CONTROL
 PORTAMENTO
 OPEN
 ON/OFF

MODULATION
 LFO FREQUENCY RATE DEPTH
 LFO 2 DEPTH
 SWEEP

OSCILLATORS
 1 2
 FREQUENCY RANGE WIDTH FREQUENCY
 WAVEFORM SINE TRIANGLE SQUARE
 ON/OFF

FILTER
 FREQUENCY RESONANCE MODULATION
 ON/OFF

ENVELOPES
 FILTER ENVELOPE
 ATTACK DECAY SUSTAIN RELEASE
 ATTACK DECAY SUSTAIN RELEASE
 UNMUTED, MUTE

KEYBOARD
 SPLIT
 CHECK MUTE

PROGRAMMER
 PREVIOUS
 1 2 3 4 5 6 7 8 9 10
 CHECK MUTE RECORD

Oberheim

AC7: Harp II

VC01—Normal Pitch

VC02—Off

Holding a key down elicits a muted playing style, while releasing the key allows the “string” to ring.

NOTES:

OB-Xa

MANUAL
 VOLUME BALANCE
 REPEAT HOLD LOCK
 MASTER TUNE

CONTROL
 PORTAMENTO
 OPEN
 ON/OFF

MODULATION
 LFO FREQUENCY RATE DEPTH
 LFO 2 DEPTH
 SWEEP

OSCILLATORS
 1 2
 FREQUENCY RANGE WIDTH FREQUENCY
 WAVEFORM SINE TRIANGLE SQUARE
 ON/OFF

FILTER
 FREQUENCY RESONANCE MODULATION
 ON/OFF

ENVELOPES
 FILTER ENVELOPE
 ATTACK DECAY SUSTAIN RELEASE
 ATTACK DECAY SUSTAIN RELEASE
 UNMUTED, MUTE

KEYBOARD
 SPLIT
 CHECK MUTE

PROGRAMMER
 PREVIOUS
 1 2 3 4 5 6 7 8 9 10
 CHECK MUTE RECORD

Oberheim

AC8: Oriental Unison

VC01—Normal Pitch

VC02—Four Octaves Up

NOTES:

OB-Xa

MANUAL
 VOLUME BALANCE
 AUTO HOLD LOCKED
 MANUALLY TUNE

CONTROL
 PORTAMENTO
 LFO RATE
 LFO 2 RATE

MODULATION
 LFO FREQUENCY PULSE WIDTH
 RATE DEPTH DEPTH
 LFO 1 LFO 2
 SOURCE LFO 2
 ON OFF

OSCILLATORS
 1 2
 FREQUENCY PULSE WIDTH FREQUENCY
 SCALED SYNC 1 ENV 2 ENV
 SLOW FAST SLOW FAST

FILTER
 FREQUENCY RESONANCE MODULATION
 OSC 1 OSC 2
 HOLD FULL SENS. CUTOFF TRACK

ENVELOPES
 FILTER ENVELOPE
 ATTACK DECAY SUSTAIN RELEASE
 ATTACK DECAY SUSTAIN RELEASE
 LOCKED UNLOCKED

KEYBOARD
 SPLIT OVERB. LOWER UPPER

PROGRAMMING
 GROUP PROGRAM
 MANUAL A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 CHECK BANK RECORD

Oberheim

BC1: Tropical Horns

VC01—Normal Pitch
 VC02—One Octave Up

NOTES: _____

OB-Xa

MANUAL
 VOLUME BALANCE
 AUTO HOLD LOCKED
 MANUALLY TUNE

CONTROL
 PORTAMENTO
 LFO RATE
 LFO 2 RATE

MODULATION
 LFO FREQUENCY PULSE WIDTH
 RATE DEPTH DEPTH
 LFO 1 LFO 2
 SOURCE LFO 2
 ON OFF

OSCILLATORS
 1 2
 FREQUENCY PULSE WIDTH FREQUENCY
 SCALED SYNC 1 ENV 2 ENV
 SLOW FAST SLOW FAST

FILTER
 FREQUENCY RESONANCE MODULATION
 OSC 1 OSC 2
 HOLD FULL SENS. CUTOFF TRACK

ENVELOPES
 FILTER ENVELOPE
 ATTACK DECAY SUSTAIN RELEASE
 ATTACK DECAY SUSTAIN RELEASE
 LOCKED UNLOCKED

KEYBOARD
 SPLIT OVERB. LOWER UPPER

PROGRAMMING
 GROUP PROGRAM
 MANUAL A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 CHECK BANK RECORD

Oberheim

BC2: Rubber Clav

VC01—Normal Pitch
 VC02—Normal Pitch

NOTES: _____

OBXa

MANUAL
 VOLUME BALANCE
 REVERB
 MASTER TUNE

CONTROL
 PORTAMENTO
 SMOOTH
 OSC 2 DETUNE

MODULATION
 LFO FREQUENCY DEPTH PULSE WIDTH
 BASS DEPTH
 VIBO OSC 1 OSC 2
 SQUARE OSC 1 OSC 2
 SYNC PULSE

OSCILLATORS
 I FREQUENCY PULSE WIDTH
 II FREQUENCY PULSE WIDTH
 WAVEFORM OSC 1 OSC 2
 SYNC PULSE

FILTER
 FREQUENCY RESONANCE MODULATION
 OSC 1 OSC 2
 HOLD RELEASE
 ATTACK DELAY SUSTAIN RELEASE
 LOCKED ENVELOPE

KEYBOARD
 SPLIT CHORDS LOWER UPPER
 MANUAL A B C D E F G A B C D E F G A B
 CHECK PLAY

PROGRAM BANK
 PROGRAM
 CHECK PLAY

Oberheim

BC3: Strings II

VC01—One Octave Up

VC02—One Octave Up

NOTES: _____

OBXa

MANUAL
 VOLUME BALANCE
 REVERB
 MASTER TUNE

CONTROL
 PORTAMENTO
 SMOOTH
 OSC 2 DETUNE

MODULATION
 LFO FREQUENCY DEPTH PULSE WIDTH
 BASS DEPTH
 VIBO OSC 1 OSC 2
 SQUARE OSC 1 OSC 2
 SYNC PULSE

OSCILLATORS
 I FREQUENCY PULSE WIDTH
 II FREQUENCY PULSE WIDTH
 WAVEFORM OSC 1 OSC 2
 SYNC PULSE

FILTER
 FREQUENCY RESONANCE MODULATION
 OSC 1 OSC 2
 HOLD RELEASE
 ATTACK DELAY SUSTAIN RELEASE
 LOCKED ENVELOPE

KEYBOARD
 SPLIT CHORDS LOWER UPPER
 MANUAL A B C D E F G A B C D E F G A B
 CHECK PLAY

PROGRAM BANK
 PROGRAM
 CHECK PLAY

Oberheim

BC4: Edge Piano

VC01—Normal Pitch

VC02—Normal Pitch

NOTES: _____

More envelope modulation of the filter gives this patch more bite than the soft piano, with which it is combined in Double 6.

BC5: Hymn Organ

VC01—Normal Pitch

VC02—One Octave Up

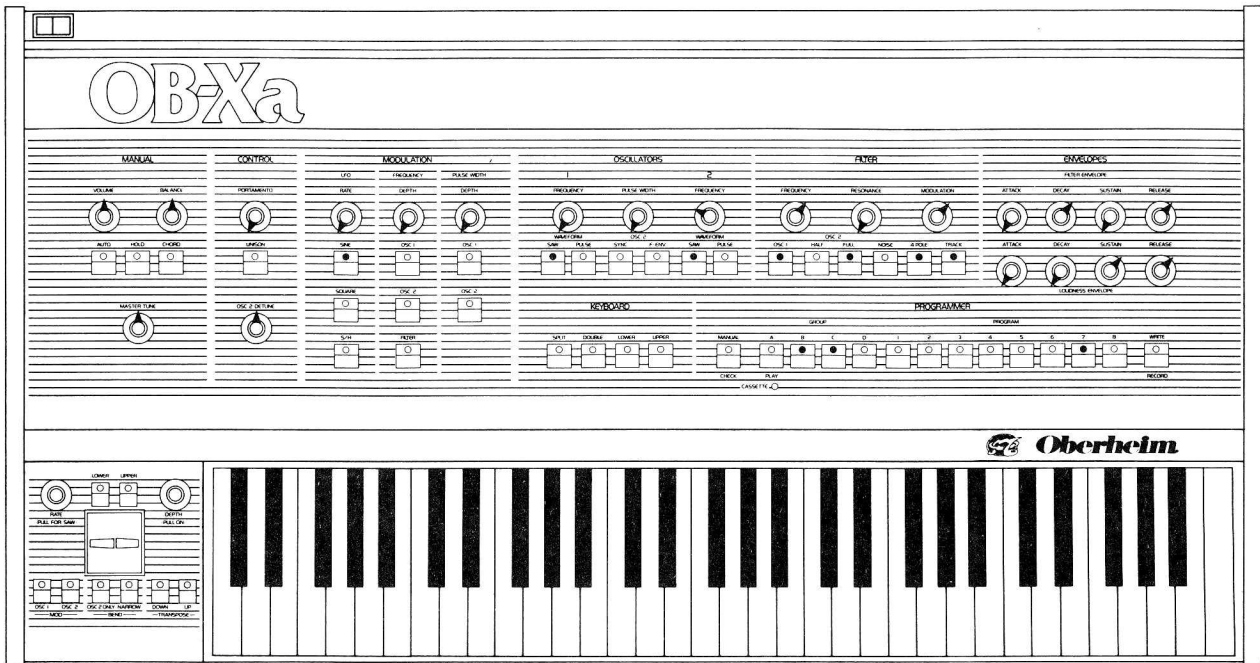
NOTES:

BC6: Recorder

VC01—Normal Pitch

VC02—Off

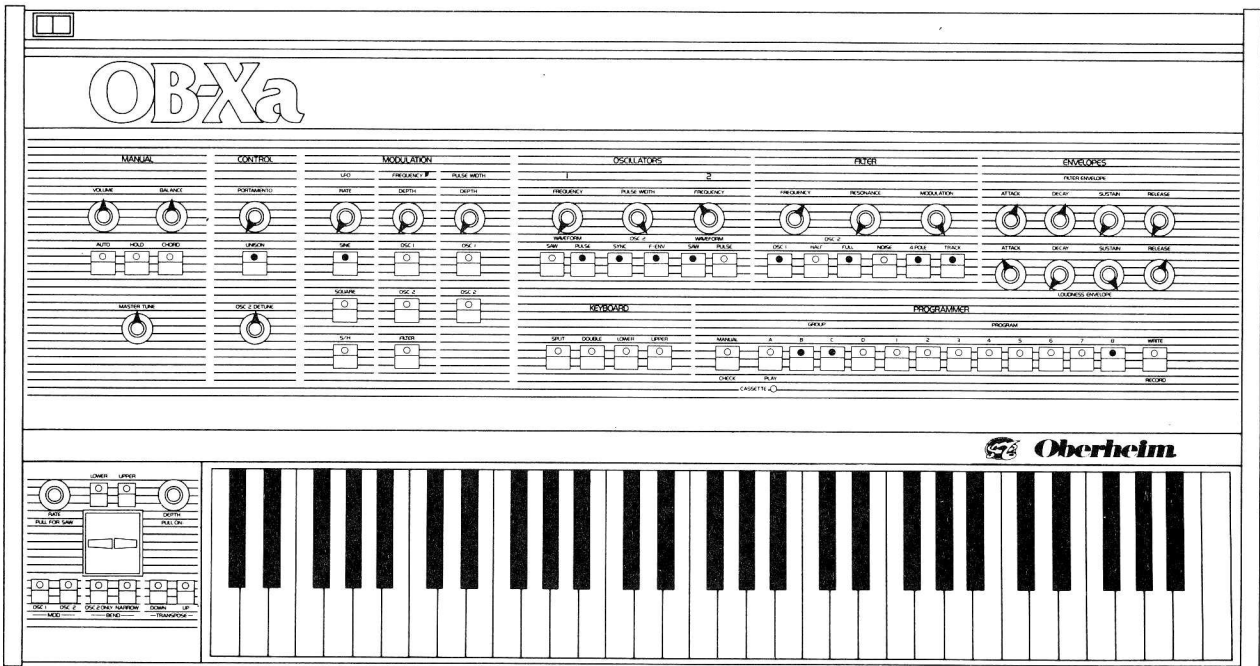
NOTES:



BC7: Long Chimes

VC01—Normal Pitch
 VC02—Perfect Fifth Up

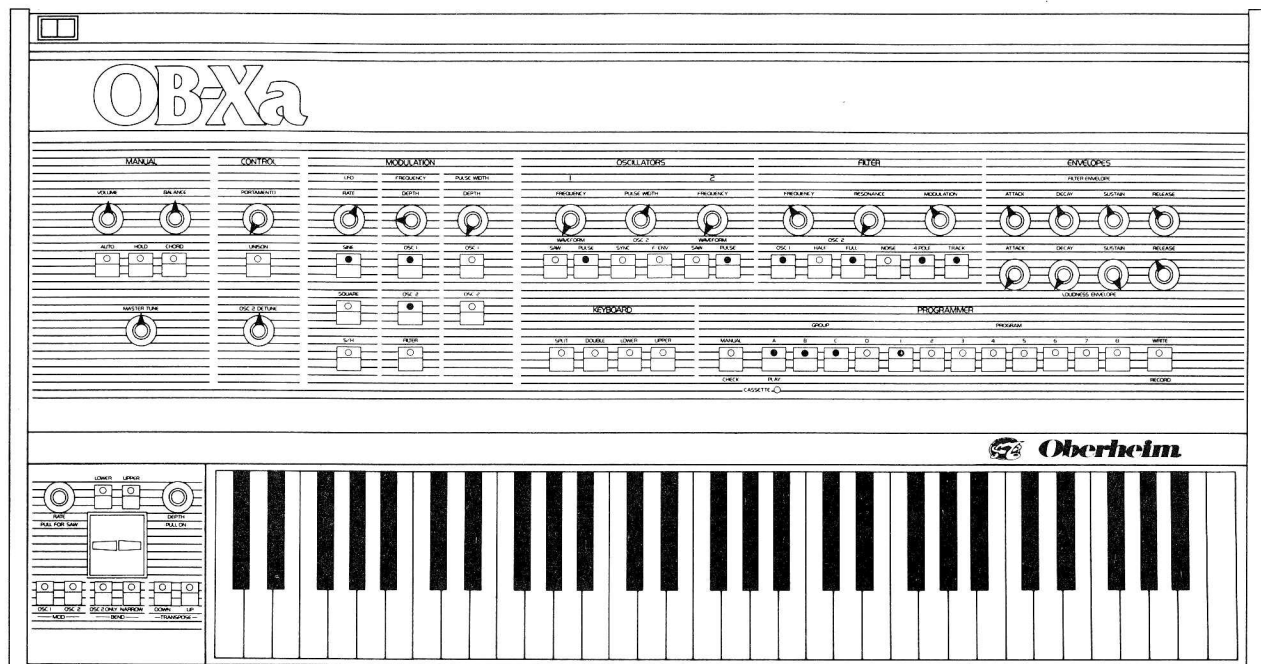
NOTES: _____



BC8: Unison Fear

VC01—Normal Pitch
 VC02—One Octave Plus Perfect Fifth Up

NOTES: _____

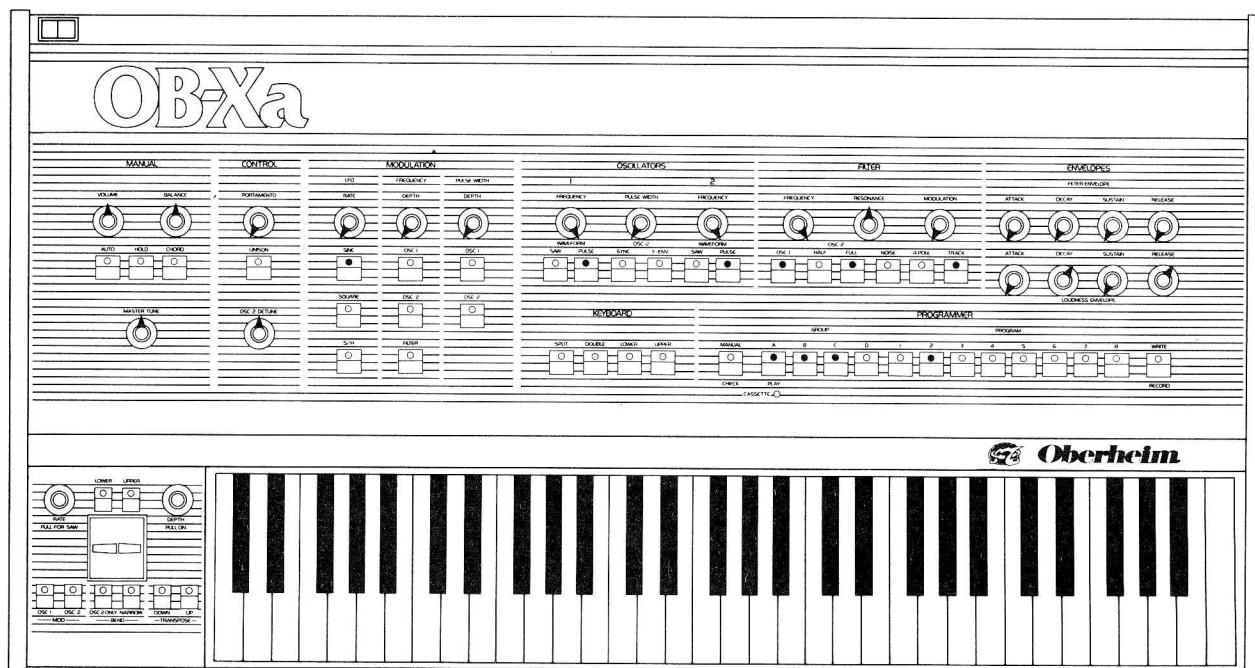


ABC1: Comp Horns

VC01 — Normal Pitch

VC02 — Normal Pitch

NOTES: _____

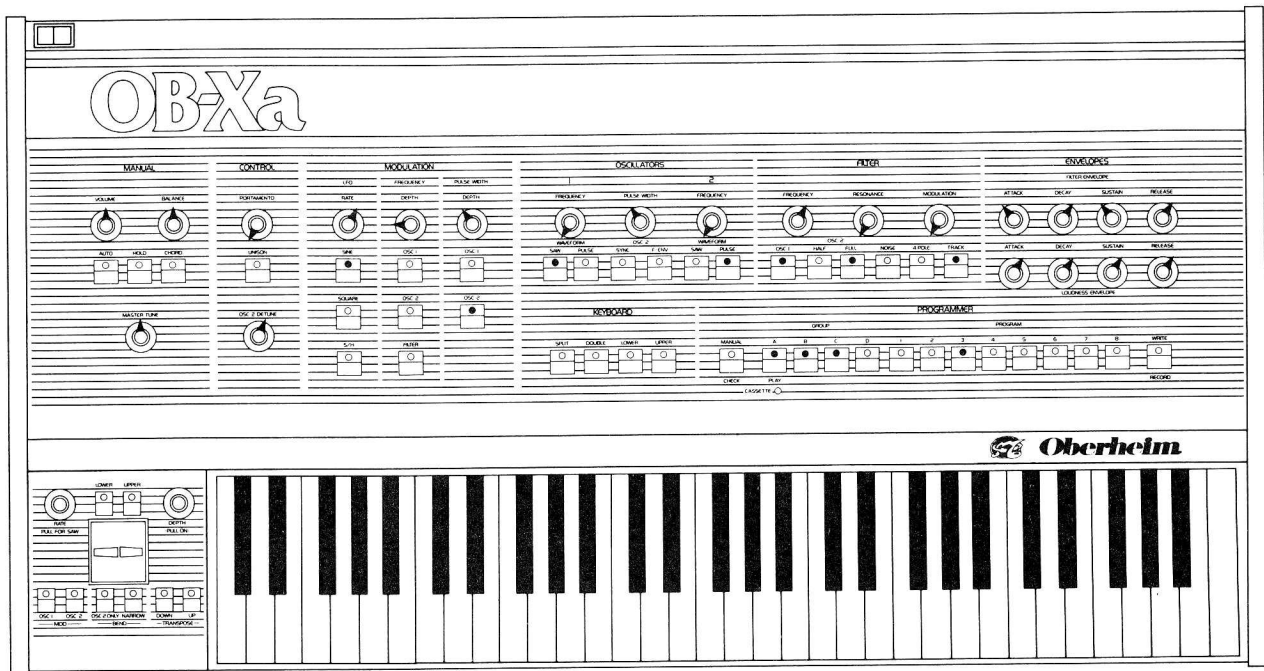


ABC2: Bells

VC01 — Maximum Transpose Up

VC02 — Maximum Transpose Up

NOTES: _____

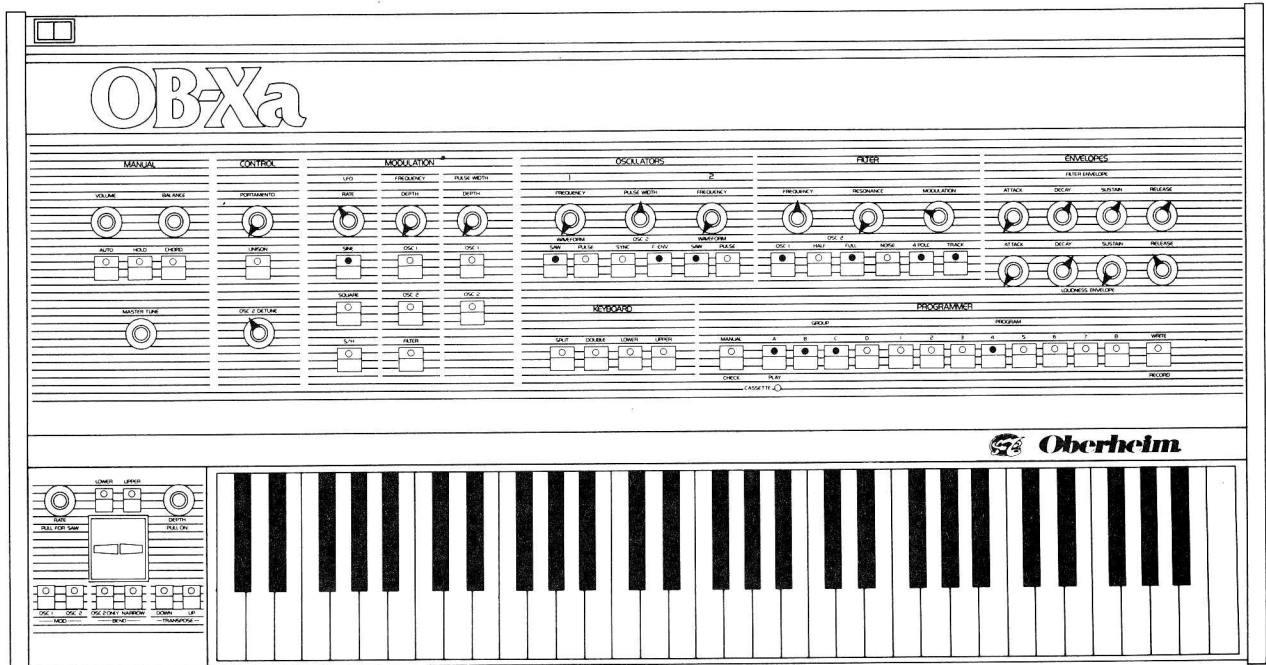


ABC3: Strings III

VC01—Normal Pitch

VC02—Normal Pitch

NOTES: _____



ABC4: Soft Piano

VC01—Normal Pitch

VC02—Normal Pitch

NOTES: _____

A slight amount of filter envelope modulation of VC02 changes the beating of the VCO's during the duration of note. The long decay and minimum sustain of the loudness envelope causes the note to die out even if the key is held down. This patch is used with the Edge Piano in Double 6.

OBXa

MANUAL
 VOLUME, BALANCE, AUTO, HOLD, CHORD, MODIFIER/TUNE

CONTROL
 PERFORMANCE, LATCH, OSC 1 OCTAVE, OSC 2 OCTAVE

MODULATION
 LFO, FREQUENCY, PULSE WIDTH, RATE, DEPTH, OSC 1, OSC 2, OSC 1, OSC 2, OSC 1, OSC 2

OSCILLATORS
 1: FREQUENCY, PULSE WIDTH, SAMPLING, 2: FREQUENCY, PULSE WIDTH, SAMPLING

FILTER
 FREQUENCY, RESONANCE, MODULATION, OSC 1, OSC 2, FORM, NOISE, BLEND, TRACK, ATTACK, DELAY, SUSTAIN, RELEASE

ENVELOPES
 FILTER ENVELOPE, ATTACK, DELAY, SUSTAIN, RELEASE, UNLATCHED SUSTAIN

KEYBOARD
 SPLIT, DOUBLE, LATCH, LIFT

PROGRAMMER
 GROUP, PROGRAM, CHECK, PLAY, RECORD

Oberheim

ABC5: Reed Organ

VC01—Normal Pitch

VC02—One Octave Plus Perfect Fifth Up

NOTES: _____

OBXa

MANUAL
 VOLUME, BALANCE, AUTO, HOLD, CHORD, MODIFIER/TUNE

CONTROL
 PERFORMANCE, LATCH, OSC 1 OCTAVE, OSC 2 OCTAVE

MODULATION
 LFO, FREQUENCY, PULSE WIDTH, RATE, DEPTH, OSC 1, OSC 2, OSC 1, OSC 2, OSC 1, OSC 2

OSCILLATORS
 1: FREQUENCY, PULSE WIDTH, SAMPLING, 2: FREQUENCY, PULSE WIDTH, SAMPLING

FILTER
 FREQUENCY, RESONANCE, MODULATION, OSC 1, OSC 2, FORM, NOISE, BLEND, TRACK, ATTACK, DELAY, SUSTAIN, RELEASE

ENVELOPES
 FILTER ENVELOPE, ATTACK, DELAY, SUSTAIN, RELEASE, UNLATCHED SUSTAIN

KEYBOARD
 SPLIT, DOUBLE, LATCH, LIFT

PROGRAMMER
 GROUP, PROGRAM, CHECK, PLAY, RECORD

Oberheim

ABC6: Vocal Wow

VC01—Normal Pitch

VC02—Normal Pitch

Change the filter envelope decay time to alter the length of the word.

NOTES: _____

OB-Xa

53 Oberheim

ABC7: Marimba

VC01 — Normal Pitch

VC02 — Normal Pitch

The mallet sound is available through filter envelope modulation.

NOTES: _____

OB-Xa

53 Oberheim

ABC8: Terror

VC01 — Normal Pitch

VC02 — Major Seventh Up

No one will be seated during the last seconds of this patch.

NOTES: _____

OB-Xa

MANUAL

VOLUME BALANCE

RECALL HOLD STORE

MASTER TUNE

CONTROL

PORTAMENTO

LATCH

OSC 2 OFF

MODULATION

LFO FREQUENCY PULSE WIDTH

DEPTH DEPTH DEPTH

OSC 1 OSC 2 OSC 2

SCALE OFF OFF

SOFT FILTER

OSCILLATORS

1 2

FREQUENCY PULSE WIDTH PULSE WIDTH

WAVEFORM SYNC LFO SYNC SYNC SYNC

OSC 1 OSC 2 OSC 2

FILTER

FREQUENCY RESONANCE MAXIMUM

OSC 1 OSC 2 OSC 2

OSC 1 OSC 2 OSC 2

ENVELOPES

FILTER ENVELOPE

ATTACK DECAY SUSTAIN RELEASE

ATTACK DECAY SUSTAIN RELEASE

ENVENVELOPE

KEYBOARD

SOFT COARSE TRANSPOSE

SCALE OFF OFF

PROGRAMMER

PROGRAM

1 2 3 4 5 6 7 8 9 10

RECALL HOLD STORE

DL: F-ENV Horns

VC01—Normal Pitch

VC02—Normal Pitch

VC02 is tuned to a fifth above VC01 with the filter envelope modulation level. If sync is added, the filter envelope pitch modulation of VC02 changes the harmonic structure of the sound instead of changing the pitch of VC02.

NOTES:

OB-Xa

MANUAL

VOLUME BALANCE

RECALL HOLD STORE

MASTER TUNE

CONTROL

PORTAMENTO

LATCH

OSC 2 OFF

MODULATION

LFO FREQUENCY PULSE WIDTH

DEPTH DEPTH DEPTH

OSC 1 OSC 2 OSC 2

SCALE OFF OFF

SOFT FILTER

OSCILLATORS

1 2

FREQUENCY PULSE WIDTH PULSE WIDTH

WAVEFORM SYNC LFO SYNC SYNC SYNC

OSC 1 OSC 2 OSC 2

FILTER

FREQUENCY RESONANCE MAXIMUM

OSC 1 OSC 2 OSC 2

OSC 1 OSC 2 OSC 2

ENVELOPES

FILTER ENVELOPE

ATTACK DECAY SUSTAIN RELEASE

ATTACK DECAY SUSTAIN RELEASE

ENVENVELOPE

KEYBOARD

SOFT COARSE TRANSPOSE

SCALE OFF OFF

PROGRAMMER

PROGRAM

1 2 3 4 5 6 7 8 9 10

RECALL HOLD STORE

D2: S/H in Fifths

VC01—Normal Pitch

VC02—Perfect Fifth UP

The LFO rate may be varied to use this patch in tempo.

NOTES:

D3: Polyphonic Portamento

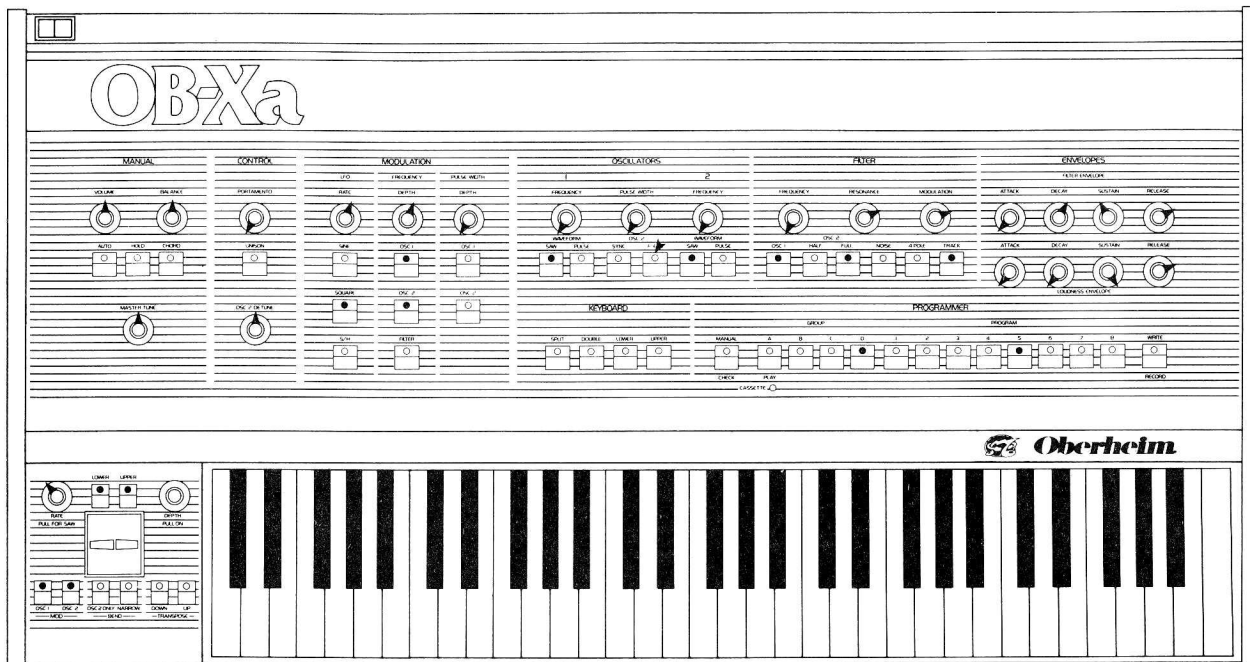
VC01—Normal Pitch
 VC02—Perfect Fifth Up

NOTES: _____

D4: Steel Drums

VC01—One Octave Up
 VC02—Normal Pitch
 VC02 detuning contributes to the sound of steel drums.
 Play in a staccato style to simulate the drums.

NOTES: _____



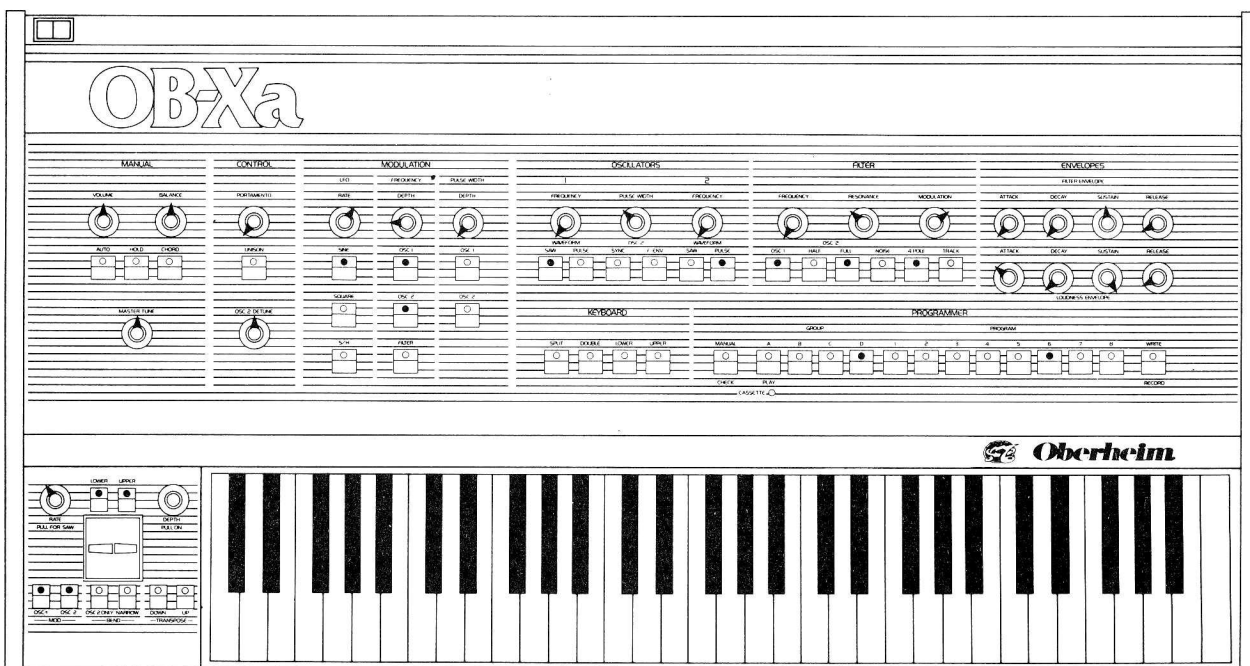
D5: Square Wave Mod

VCO1—Normal Pitch

VCO2—Normal Pitch

The LFO square wave modulates both oscillators up a fourth. The interval and speed can be changed by using the frequency depth and LFO rate controls.

NOTES: _____



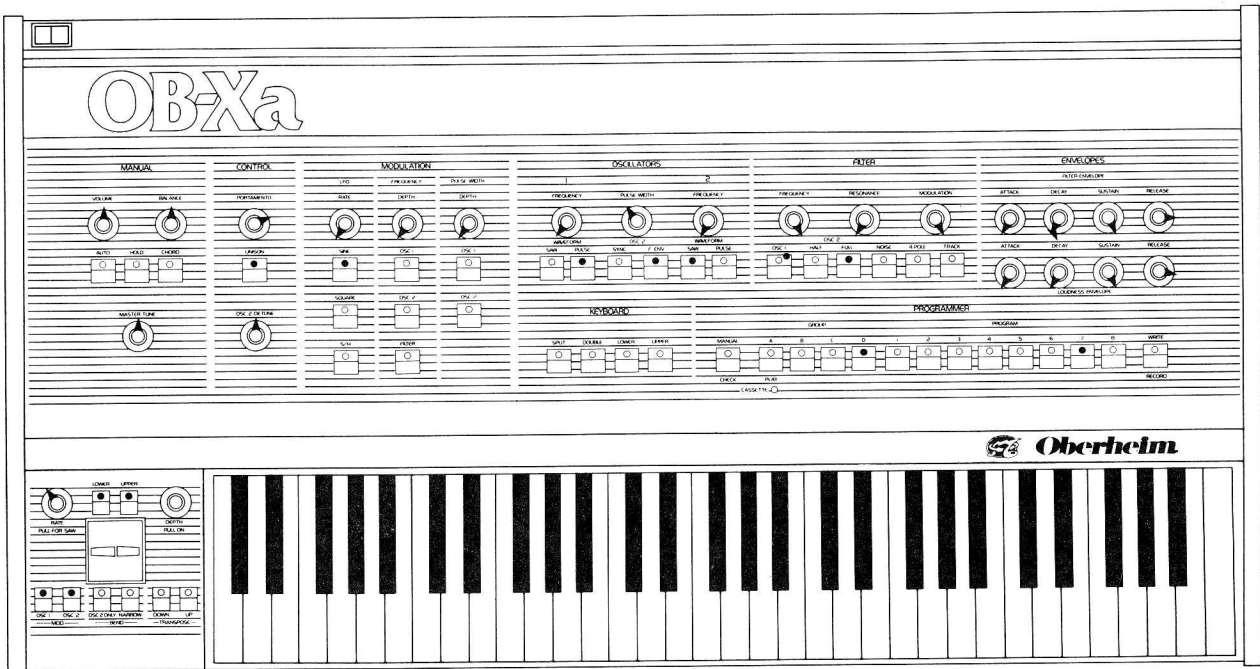
D6: Comp Synth

VCO1—Normal Pitch

VCO2—Normal Pitch

This patch may be used as a solo synthesizer sound or as an interesting accompaniment texture.

NOTES: _____

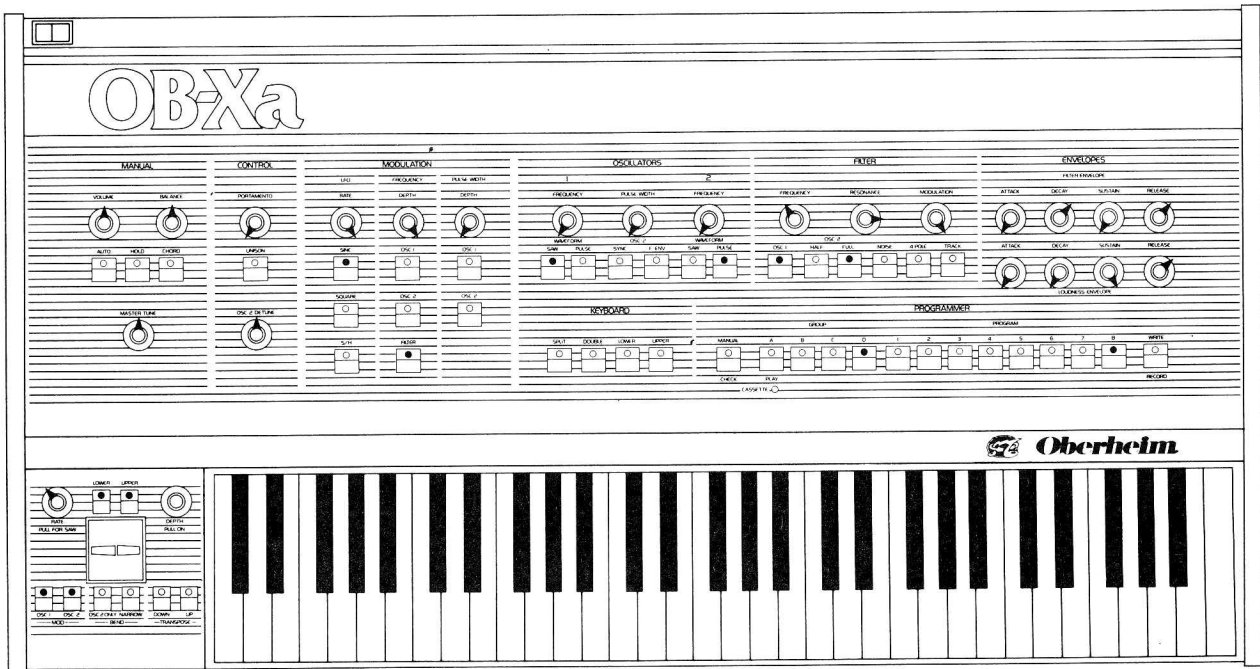


D7: Unison Portamento

VCO1—Normal Pitch

VCO2—Normal Pitch

NOTES: _____



D8: Delayed Mod

VCO1—Normal Pitch

VCO2—Normal Pitch

NOTES: _____

In this patch, the filter envelope drives the filter frequency above the point at which the LFO is modulating the filter. As the filter frequency drops with the filter envelope decay, the LFO filter modulation becomes audible.

OB-Xa

MANUAL
 VOLUME ENVELOPE
 AUTO HOLD CHORD
 MASTER TUNE

CONTROL
 PORTAMENTO
 LATCH

MODULATION
 LFO FREQUENCY PULSE WIDTH
 RATE DEPTH SPEED
 SINE OSC 1 OSC 2
 SQUARE OSC 2
 SLO REPR

OSCILLATORS
 1 2
 FREQUENCY PULSE WIDTH FREQUENCY
 SINE SQUARE SINE 2 FREQ SAW PULSE
 OSC 1 OSC 2

FILTER
 FREQUENCY RESONANCE MODULATION
 OSC 1 OSC 2 HOLD FULL NOISE ATTACK TRACK
 OSC 1 OSC 2

ENVELOPES
 FILTER ENVELOPE
 ATTACK DECAY SUSTAIN RELEASE
 ATTACK DECAY SUSTAIN RELEASE
 CUTOFF SCALED

KEYBOARD
 SPLIT OFF LIMB1 LIMB2

PROGRAMMABLE
 GROUP PROGRAM
 MANUAL A B C D 1 2 3 4 5 6 7 8 9 10
 CHECK RUN RECORD

Oberheim

AD1: Tenth Decay

VC01—Normal Pitch

VC02—Tenth Up

NOTES:

OB-Xa

MANUAL
 VOLUME ENVELOPE
 AUTO HOLD CHORD
 MASTER TUNE

CONTROL
 PORTAMENTO
 LATCH

MODULATION
 LFO FREQUENCY PULSE WIDTH
 RATE DEPTH SPEED
 SINE OSC 1 OSC 2
 SQUARE OSC 2
 SLO REPR

OSCILLATORS
 1 2
 FREQUENCY PULSE WIDTH FREQUENCY
 SINE SQUARE SINE 2 FREQ SAW PULSE
 OSC 1 OSC 2

FILTER
 FREQUENCY RESONANCE MODULATION
 OSC 1 OSC 2 HOLD FULL NOISE ATTACK TRACK
 OSC 1 OSC 2

ENVELOPES
 FILTER ENVELOPE
 ATTACK DECAY SUSTAIN RELEASE
 ATTACK DECAY SUSTAIN RELEASE
 CUTOFF SCALED

KEYBOARD
 SPLIT OFF LIMB1 LIMB2

PROGRAMMABLE
 GROUP PROGRAM
 MANUAL A B C D 1 2 3 4 5 6 7 8 9 10
 CHECK RUN RECORD

Oberheim

AD2: Sitar

VC01—Normal Pitch

VC02—Normal Pitch

Place a note on HOLD to produce the droning accompaniment.

NOTES:

AD3: Fiddle

VC01—Normal Pitch

VC02—Normal Pitch

Play 3rd notes as fast as you can with major and minor thirds to get that barn dance feeling.

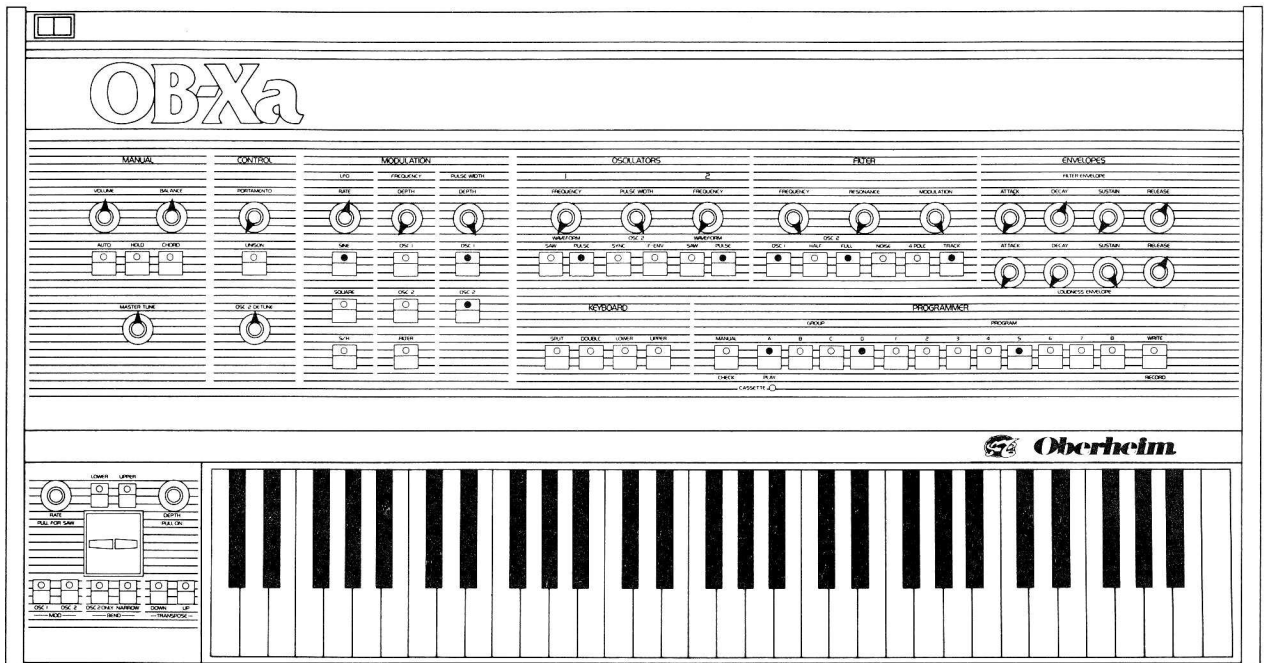
NOTES: _____

AD4: Pulse Comp

VC01—Normal Pitch

VC02—Normal Pitch

NOTES: _____

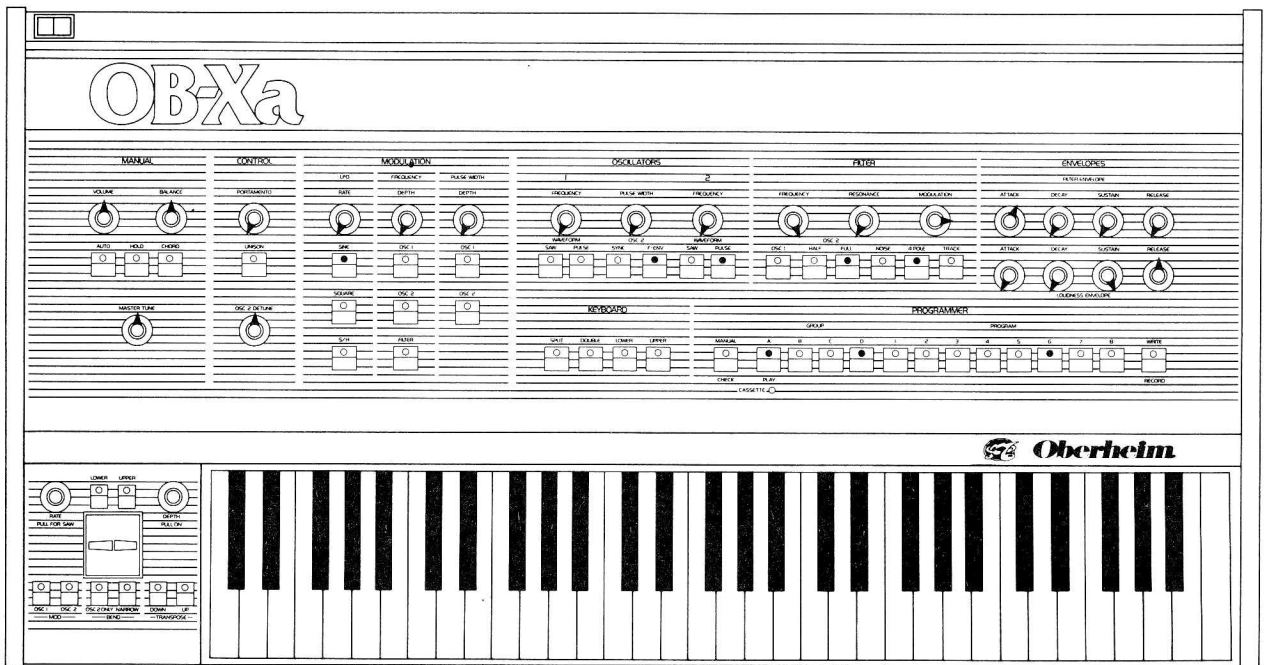


AD5: P.W. Rezz

VC01—Normal Pitch

VC02—Normal Pitch

NOTES: _____



AD6: Comedy Comp

VC01—Normal Pitch

VC02—Normal Pitch

NOTES: _____

OB-Xa

MANUAL
 VOLUME BALANCE
 AUTO HOLD OVERD
 MASTER TUNE

CONTROL
 PORTAMENTO
 LFO RATE
 LFO DEPTH
 LFO SHAPE
 LFO 2 DEPTH
 LFO 2 SHAPE

MODULATION
 LFO FREQUENCY RATE DEPTH
 OSC 1 OSC 2 OSC 3
 OSC 1 DEPTH OSC 2 DEPTH OSC 3 DEPTH

OSCILLATORS
 1 2
 FREQUENCY PULSE WIDTH FREQUENCY PULSE WIDTH
 WAVEFORM SINE PULSE SINE PULSE
 OSC 1 OSC 2

FILTER
 FREQUENCY RESONANCE MODULATION
 OSC 1 OSC 2
 NOISE GATE TRACK

ENVELOPES
 FILTER ENVELOPE
 ATTACK DELAY SUSTAIN RELEASE
 OSC 1 OSC 2
 ATTACK DELAY SUSTAIN RELEASE

KEYBOARD
 SPLIT DOUBLE LOWER UPPER

PROGRAMMER
 PROGRAM
 NORMAL A B C D E F G A B C D E F G A B C D
 CHECK RUN RECORD

Oberheim

AD7: Jazz Solo

VC01 — Normal Pitch
 VC02 — Normal Pitch

Two almost square waves in unison, with a small amount of envelope modulation on VC02 at the start of the note. For vibrato you can add OSC1 or OSC2 modulation buttons.

NOTES: _____

OB-Xa

MANUAL
 VOLUME BALANCE
 AUTO HOLD OVERD
 MASTER TUNE

CONTROL
 PORTAMENTO
 LFO RATE
 LFO DEPTH
 LFO SHAPE
 LFO 2 DEPTH
 LFO 2 SHAPE

MODULATION
 LFO FREQUENCY RATE DEPTH
 OSC 1 OSC 2 OSC 3
 OSC 1 DEPTH OSC 2 DEPTH OSC 3 DEPTH

OSCILLATORS
 1 2
 FREQUENCY PULSE WIDTH FREQUENCY PULSE WIDTH
 WAVEFORM SINE PULSE SINE PULSE
 OSC 1 OSC 2

FILTER
 FREQUENCY RESONANCE MODULATION
 OSC 1 OSC 2
 NOISE GATE TRACK

ENVELOPES
 FILTER ENVELOPE
 ATTACK DELAY SUSTAIN RELEASE
 OSC 1 OSC 2
 ATTACK DELAY SUSTAIN RELEASE

KEYBOARD
 SPLIT DOUBLE LOWER UPPER

PROGRAMMER
 PROGRAM
 NORMAL A B C D E F G A B C D E F G A B C D
 CHECK RUN RECORD

Oberheim

AD8: Earthquake

VC01 — Normal Pitch
 VC02 — Normal Pitch

Play the eight lowest notes on the keyboard in down transpose.

NOTES: _____

OB-Xa

MANUAL
 VOLUME BALANCE
 AUTO HOLD CHARGE
 MASTER TUNE

CONTROL
 PORTAMENTO
 LATCH
 OSC 2 OFF/ON

MODULATION
 LFO FREQUENCY DEPTH
 RATE DEPTH DEPTH
 LFO OSC 1 OSC 2
 SQUARE OSC 2
 S/H HOLD

OSCILLATORS
 FREQUENCY PHASE METHOD FREQUENCY
 OSC 1 OSC 2
 LOW MISC F COO LOW MISC

FILTER
 FREQUENCY RESONANCE MODULATION
 OSC 1 OSC 2
 HOLD HOLD NOISE CUTOFF TRACK

ENVELOPES
 FILTER ENVELOPE
 ATTACK DELAY SUSTAIN RELEASE
 ATTACK DELAY SUSTAIN RELEASE
 LOGIC/SIGNAL

KEYBOARD
 GATE DUAL LOW UP
 MINOR MAJ GROUP
 1 2 3 4 5 6 7 8
 CHECK INLAY

PROGRAMMER
 PROGRAM
 1 2 3 4 5 6 7 8
 CHECK INLAY

Oberheim

BD1: S/H Port Rezz

VC01 — Normal Pitch

VC02 — Normal Pitch

NOTES: _____

OB-Xa

MANUAL
 VOLUME BALANCE
 AUTO HOLD CHARGE
 MASTER TUNE

CONTROL
 PORTAMENTO
 LATCH
 OSC 2 OFF/ON

MODULATION
 LFO FREQUENCY DEPTH
 RATE DEPTH DEPTH
 LFO OSC 1 OSC 2
 SQUARE OSC 2
 S/H HOLD

OSCILLATORS
 FREQUENCY PHASE METHOD FREQUENCY
 OSC 1 OSC 2
 LOW MISC F COO LOW MISC

FILTER
 FREQUENCY RESONANCE MODULATION
 OSC 1 OSC 2
 HOLD HOLD NOISE CUTOFF TRACK

ENVELOPES
 FILTER ENVELOPE
 ATTACK DELAY SUSTAIN RELEASE
 ATTACK DELAY SUSTAIN RELEASE
 LOGIC/SIGNAL

KEYBOARD
 GATE DUAL LOW UP
 MINOR MAJ GROUP
 1 2 3 4 5 6 7 8
 CHECK INLAY

PROGRAMMER
 PROGRAM
 1 2 3 4 5 6 7 8
 CHECK INLAY

Oberheim

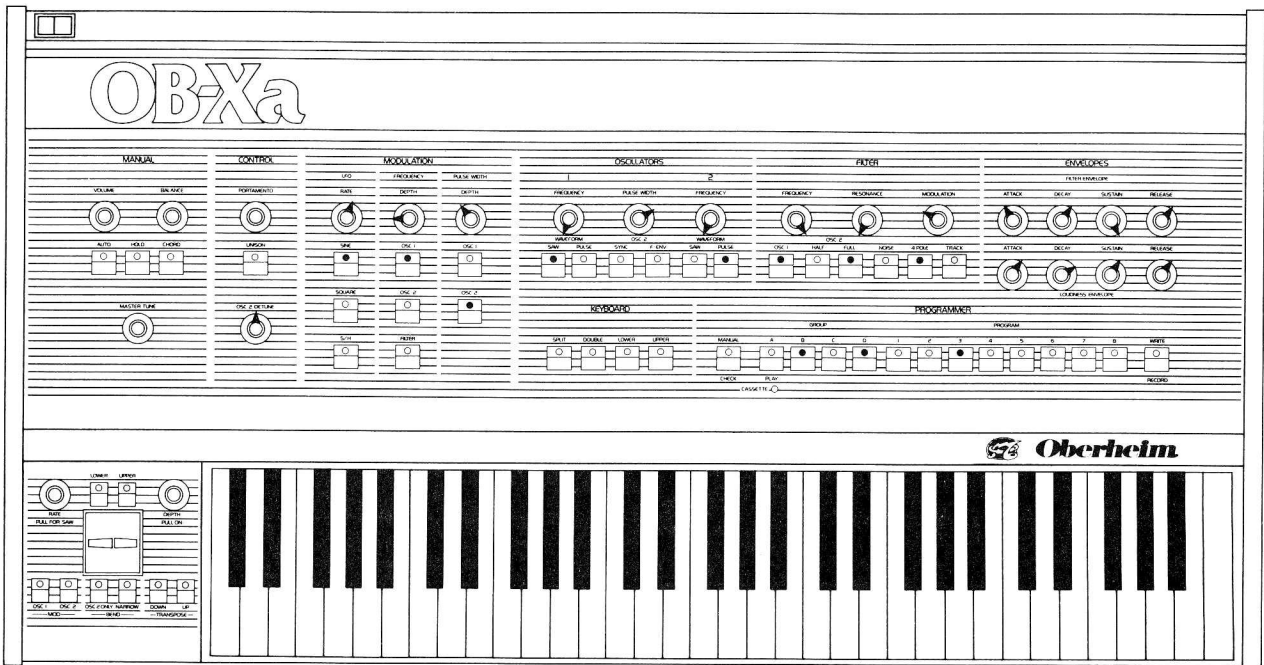
BD2: Conga

VC01 — Two Octaves Up

VC02 — One Octave Plus Minor Third Up

Play low keys in down transpose.

NOTES: _____

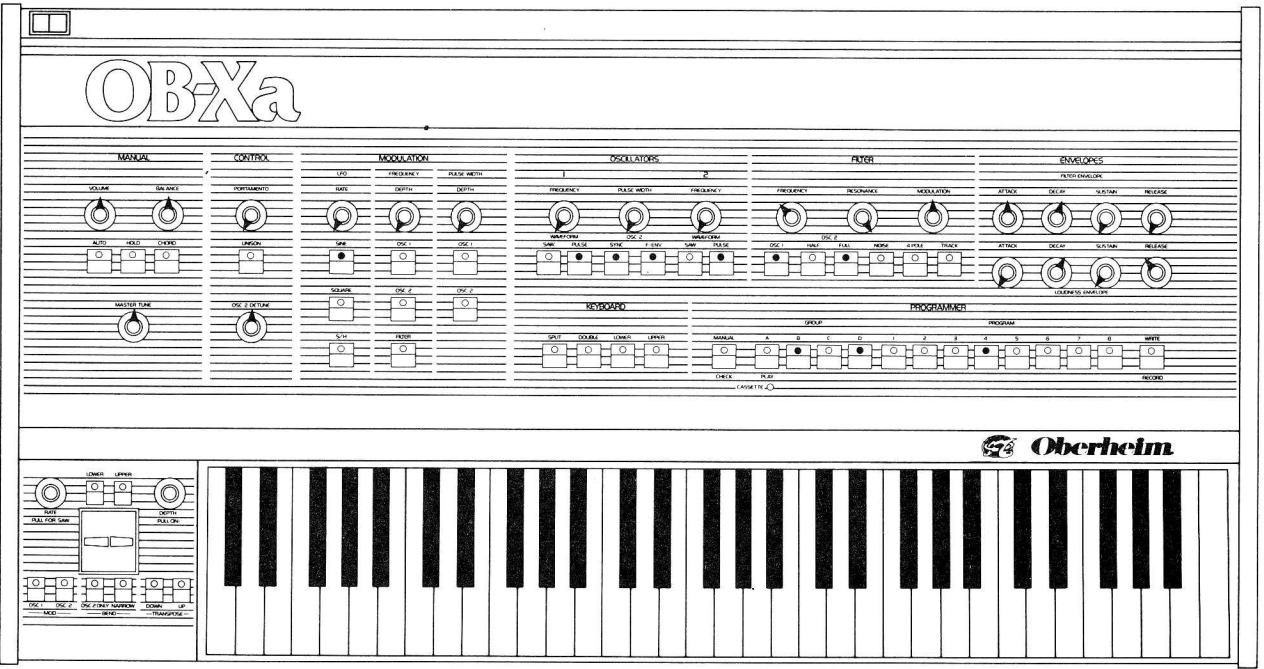


BD3: Strings IV

VC01 — Normal Pitch
 VC02 — Normal Pitch

This string sound is best used in the lower register, and works well with the 2 pole strings. (Double 8)

NOTES: _____



BD4: Funk Keys

VC01 — Normal Pitch
 VC02 — Normal Pitch

NOTES: _____

OB-Xa

MANUAL
 VOLUME BALANCE
 AUTO HOLD EFFECT
 MASTER TUNE

CONTROL
 PORTAMENTO
 LATCH

MODULATION
 LFO FREQUENCY PULSE WIDTH
 RATE DEPTH
 SIZE OSC 1 OSC 2
 OSC 2 DETUNE

OSCILLATORS
 1 2
 FREQUENCY PULSE WIDTH FREQUENCY
 SINE SQUARE PULSE
 OSC 1 OSC 2

FILTER
 FREQUENCY RESONANCE MODULATION
 OSC 1 OSC 2

ENVELOPES
 PERFORMANCY
 ATTACK DECAY SUSTAIN RELEASE
 ATTACK DECAY SUSTAIN RELEASE

KEYBOARD
 SPLIT DOUBLE LOCKER LATCH

PROGRAMMER
 GROUP PROGRAM
 NORMAL A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 CHECK CLEAR

Oberheim

BD5: Organ

VC01 — Normal Pitch

VC02 — One Octave Up

NOTES: _____

OB-Xa

MANUAL
 VOLUME BALANCE
 AUTO HOLD EFFECT
 MASTER TUNE

CONTROL
 PORTAMENTO
 LATCH

MODULATION
 LFO FREQUENCY PULSE WIDTH
 RATE DEPTH
 SIZE OSC 1 OSC 2
 OSC 2 DETUNE

OSCILLATORS
 1 2
 FREQUENCY PULSE WIDTH FREQUENCY
 SINE SQUARE PULSE
 OSC 1 OSC 2

FILTER
 FREQUENCY RESONANCE MODULATION
 OSC 1 OSC 2

ENVELOPES
 PERFORMANCY
 ATTACK DECAY SUSTAIN RELEASE
 ATTACK DECAY SUSTAIN RELEASE

KEYBOARD
 SPLIT DOUBLE LOCKER LATCH

PROGRAMMER
 GROUP PROGRAM
 NORMAL A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 CHECK CLEAR

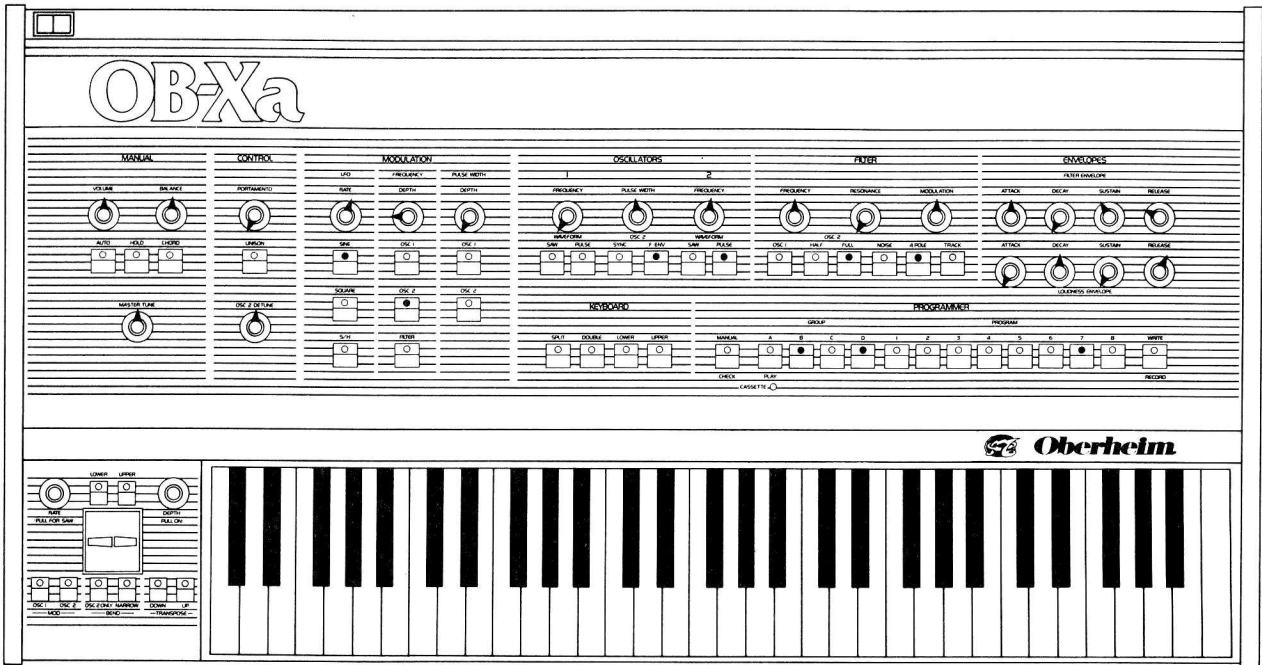
Oberheim

BD6: Tremolo Rezz

VC01 — Normal Pitch

VC02 — Normal Pitch

NOTES: _____



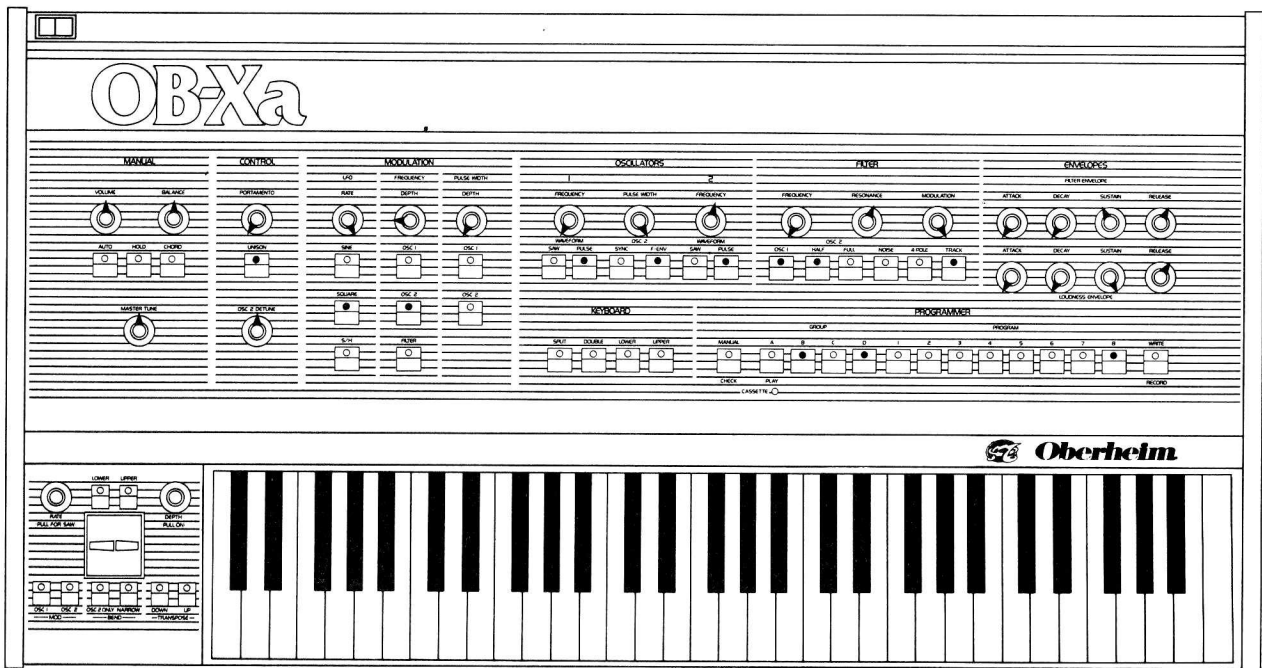
BD7: Box O'Pups

VC01—Off

VC02—Two octaves plus fourth

Play nervous notes to conjure up the canine carton.

NOTES: _____

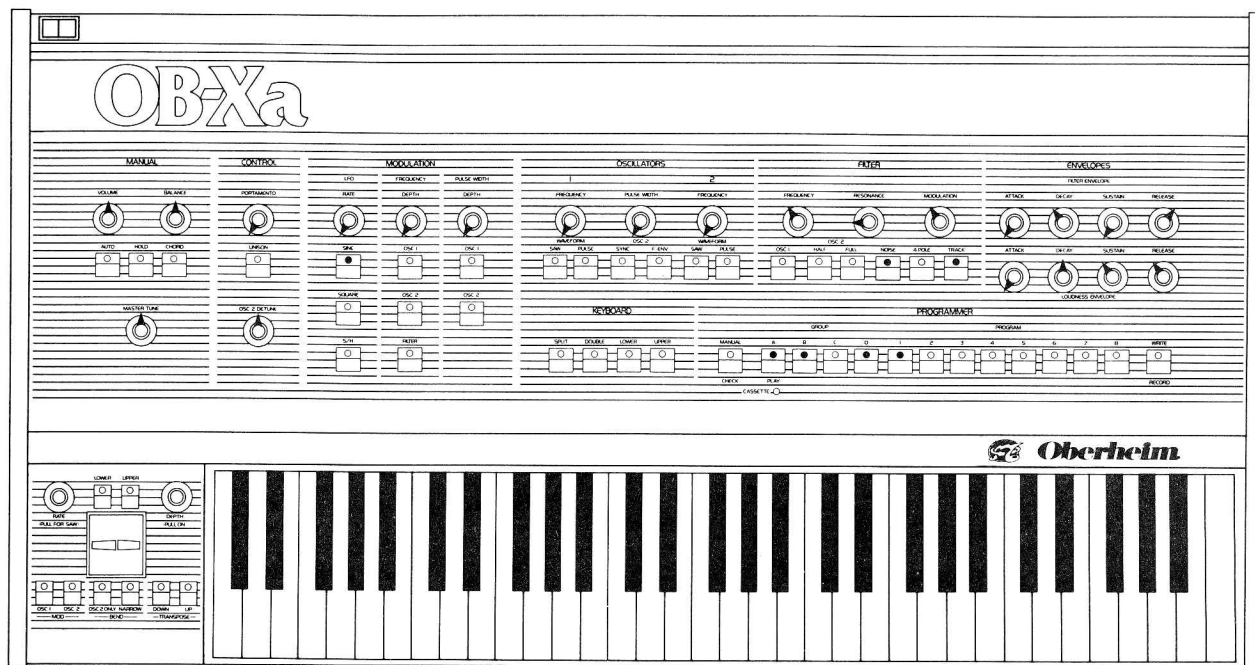


BD8: Martian Hop

VC01—Normal Pitch

VC02—Two Octaves Plus fourth-Up

NOTES: _____



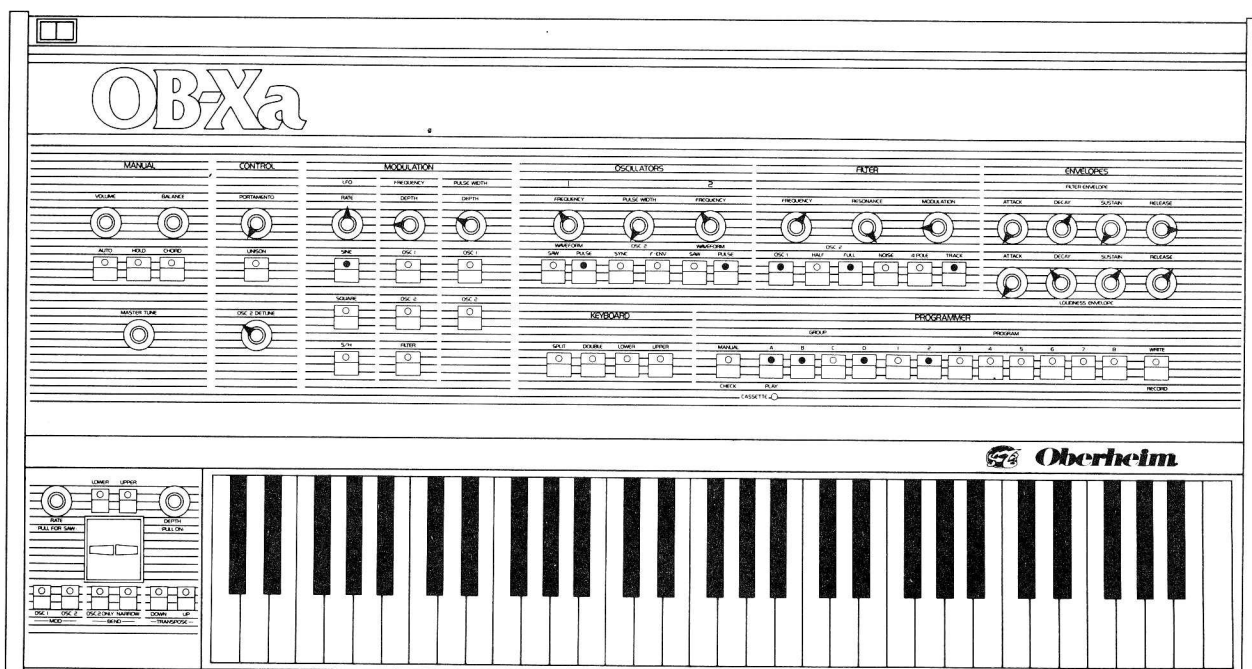
ABD1: Claps

VC01—Off

VC02—Off

Play eight keys in an erratic rhythmic style.

NOTES: _____



ABD2: Carillon

VC01—One Octave Up

VC02—One Octave Up

OSC2 detune offsets the slight amount of envelope. Filter resonance at maximum gives a more pure tone. This patch is used with the water piano (ACD2) in Double 7.

NOTES: _____

OB-Xa

MANUAL
 VOLUME, SOFT, HOLD, CHORD, MASTER TUNE

CONTROL
 PORTAMENTO, LFO, OSC 2 DETUNE

MODULATION
 RATE, DEPTH, OSC 1, OSC 2

OSCILLATORS
 I: FREQUENCY, RANGE WIDTH, WAVEFORM; II: FREQUENCY, RANGE WIDTH, WAVEFORM

FILTER
 FREQUENCY, RESONANCE, MODULATION, ATTACK, DECAY, SUSTAIN, RELEASE

ENVELOPES
 FILTER ENVELOPE, ATTACK, DECAY, SUSTAIN, RELEASE; VOICE ENVELOPE, ATTACK, DECAY, SUSTAIN, RELEASE

KEYBOARD
 SPLIT, SOFT, LOWER, UPPER

PROGRAMMER
 MANUAL, GROUP, PROGRAM, CHECK, PLAY, RECORD

Upper/Lower
 SOFT, FULL UP, DOWN, SPLIT, UPPER, LOWER, TRANSDUCER

Oberheim

ABD3: Solo Strings

VC01 — One Octave Up
 VC02 — One Octave Up

NOTES: _____

OB-Xa

MANUAL
 VOLUME, SOFT, HOLD, CHORD, MASTER TUNE

CONTROL
 PORTAMENTO, LFO, OSC 2 DETUNE

MODULATION
 RATE, DEPTH, OSC 1, OSC 2

OSCILLATORS
 I: FREQUENCY, RANGE WIDTH, WAVEFORM; II: FREQUENCY, RANGE WIDTH, WAVEFORM

FILTER
 FREQUENCY, RESONANCE, MODULATION, ATTACK, DECAY, SUSTAIN, RELEASE

ENVELOPES
 FILTER ENVELOPE, ATTACK, DECAY, SUSTAIN, RELEASE; VOICE ENVELOPE, ATTACK, DECAY, SUSTAIN, RELEASE

KEYBOARD
 SPLIT, SOFT, LOWER, UPPER

PROGRAMMER
 MANUAL, GROUP, PROGRAM, CHECK, PLAY, RECORD

Upper/Lower
 SOFT, FULL UP, DOWN, SPLIT, UPPER, LOWER, TRANSDUCER

Oberheim

ABD4: Tuned Bees

VC01 — Normal Pitch
 VC02 — Normal Pitch

NOTES: _____

OB-Xa

MANUAL
 OSCILL: BALANCE
 AUTO HOLD CLEAR
 MASTER TUNE

CONTROL
 PORTAMENTO
 LFO RATE
 OSC 2 OFF/ON

MODULATION
 LFO: FREQUENCY, PULSE WIDTH
 OSC 1, OSC 2, OSC 3
 OSC 2 OFF/ON

OSCILLATORS
 I: FREQUENCY, PULSE WIDTH, WAVEFORM (SINE, SAW, PULSE, STAIR, F-CW, SAW, PULSE)
 II: FREQUENCY, PULSE WIDTH, WAVEFORM (SINE, SAW, PULSE, STAIR, F-CW, SAW, PULSE)

FILTER
 FREQUENCY, RESONANCE, MODULATION
 OSC 1, OSC 2, OSC 3
 HOLD, LFO, NONE, ATTACK, TRACK

ENVELOPES
 FILTER ENVELOPE: ATTACK, DECAY, SUSTAIN, RELEASE
 VOICE ENVELOPE: ATTACK, DECAY, SUSTAIN, RELEASE

KEYBOARD
 SPLIT, COURSE, LOWER, UPPER

PROGRAMMER
 GROUP: A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
 CHECK, NAME, RECORD

Oberheim

ABD5: Rezz Reeds

VC01—Normal Pitch
 VC02—Normal Pitch

NOTES: _____

OB-Xa

MANUAL
 OSCILL: BALANCE
 AUTO HOLD CLEAR
 MASTER TUNE

CONTROL
 PORTAMENTO
 LFO RATE
 OSC 2 OFF/ON

MODULATION
 LFO: FREQUENCY, PULSE WIDTH
 OSC 1, OSC 2, OSC 3
 OSC 2 OFF/ON

OSCILLATORS
 I: FREQUENCY, PULSE WIDTH, WAVEFORM (SINE, SAW, PULSE, STAIR, F-CW, SAW, PULSE)
 II: FREQUENCY, PULSE WIDTH, WAVEFORM (SINE, SAW, PULSE, STAIR, F-CW, SAW, PULSE)

FILTER
 FREQUENCY, RESONANCE, MODULATION
 OSC 1, OSC 2, OSC 3
 HOLD, LFO, NONE, ATTACK, TRACK

ENVELOPES
 FILTER ENVELOPE: ATTACK, DECAY, SUSTAIN, RELEASE
 VOICE ENVELOPE: ATTACK, DECAY, SUSTAIN, RELEASE

KEYBOARD
 SPLIT, COURSE, LOWER, UPPER

PROGRAMMER
 GROUP: A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
 CHECK, NAME, RECORD

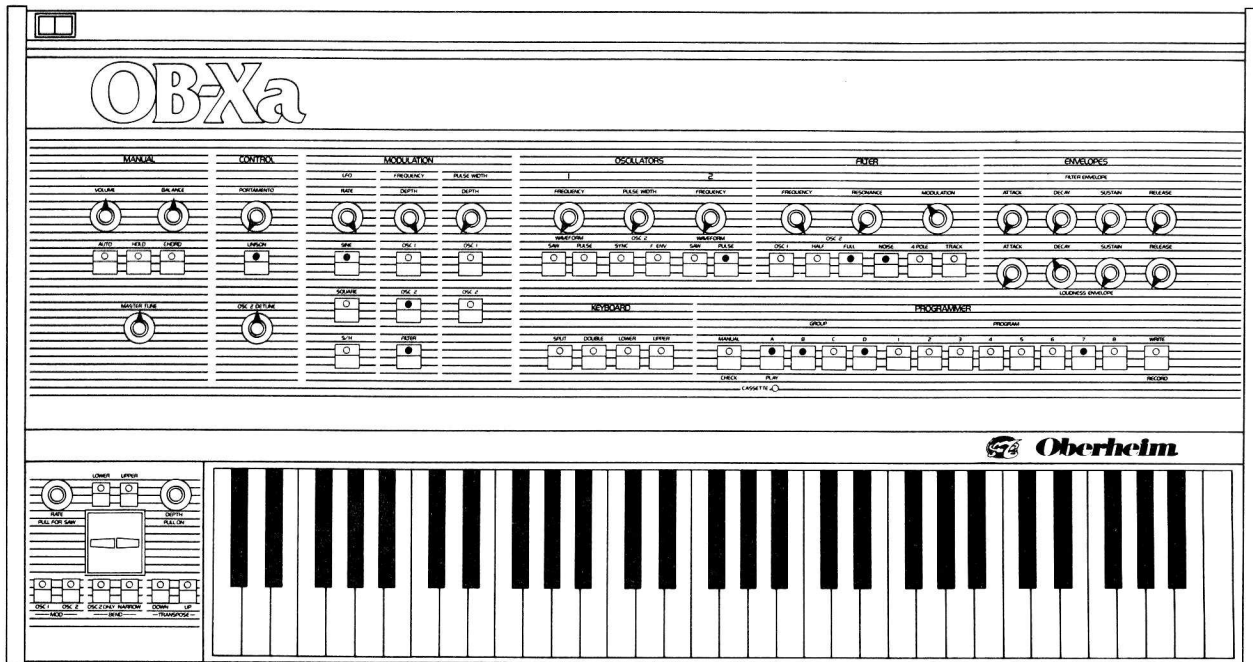
Oberheim

ABD6: Three Way

VC01—Normal Pitch
 VC02—Normal Pitch

Filter envelope modulation produces three distinct pitches for each key depressed.

NOTES: _____

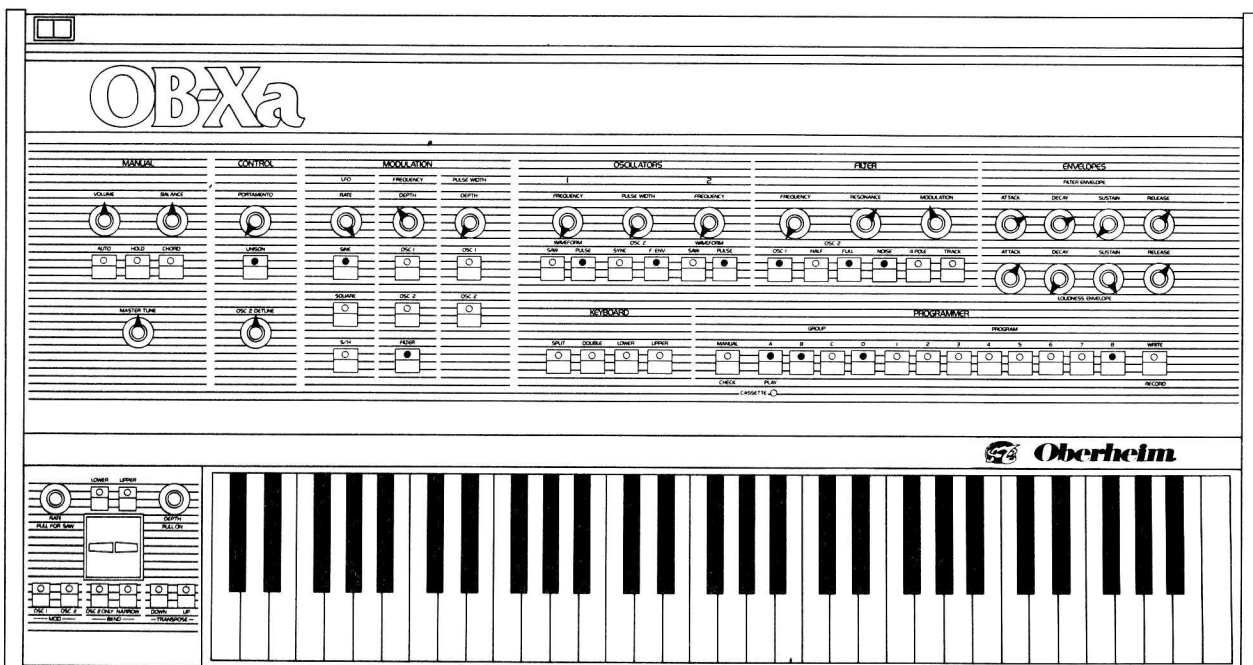


ABD7: Percussion

VC01—Off

VC02—Normal Pitch

NOTES: _____



ABD8: Chopper

VC01—Normal Pitch

VC02—Normal Pitch

Vary the filter frequency to bring the Hueys home.

NOTES: _____

OB-Xa

MANUAL
 VOLUME, SOFT PEDAL, AUTO, HOLD, COARSE

CONTROL
 PORTAMENTO, LATCH, MASTER TUNE, OSC 1 DETUNE

MODULATION
 LFO, FREQUENCY, RATE, DEPTH, OSC 1, OSC 2, OSC 3, OSC 4, OSC 5, OSC 6, OSC 7, OSC 8, OSC 9, OSC 10, OSC 11, OSC 12, OSC 13, OSC 14, OSC 15, OSC 16, OSC 17, OSC 18, OSC 19, OSC 20, OSC 21, OSC 22, OSC 23, OSC 24, OSC 25, OSC 26, OSC 27, OSC 28, OSC 29, OSC 30, OSC 31, OSC 32, OSC 33, OSC 34, OSC 35, OSC 36, OSC 37, OSC 38, OSC 39, OSC 40, OSC 41, OSC 42, OSC 43, OSC 44, OSC 45, OSC 46, OSC 47, OSC 48, OSC 49, OSC 50, OSC 51, OSC 52, OSC 53, OSC 54, OSC 55, OSC 56, OSC 57, OSC 58, OSC 59, OSC 60, OSC 61, OSC 62, OSC 63, OSC 64, OSC 65, OSC 66, OSC 67, OSC 68, OSC 69, OSC 70, OSC 71, OSC 72, OSC 73, OSC 74, OSC 75, OSC 76, OSC 77, OSC 78, OSC 79, OSC 80, OSC 81, OSC 82, OSC 83, OSC 84, OSC 85, OSC 86, OSC 87, OSC 88, OSC 89, OSC 90, OSC 91, OSC 92, OSC 93, OSC 94, OSC 95, OSC 96, OSC 97, OSC 98, OSC 99, OSC 100

OSCILLATORS
 1: FREQUENCY, PULSE WIDTH, ENVELOPE, LFO, PULSE, SYNC, LFO, PULSE, SYNC, LFO, PULSE, SYNC
 2: FREQUENCY, PULSE WIDTH, ENVELOPE, LFO, PULSE, SYNC, LFO, PULSE, SYNC, LFO, PULSE, SYNC

FILTER
 FREQUENCY, RESONANCE, MODULATION, OSC 1, OSC 2, OSC 3, OSC 4, OSC 5, OSC 6, OSC 7, OSC 8, OSC 9, OSC 10, OSC 11, OSC 12, OSC 13, OSC 14, OSC 15, OSC 16, OSC 17, OSC 18, OSC 19, OSC 20, OSC 21, OSC 22, OSC 23, OSC 24, OSC 25, OSC 26, OSC 27, OSC 28, OSC 29, OSC 30, OSC 31, OSC 32, OSC 33, OSC 34, OSC 35, OSC 36, OSC 37, OSC 38, OSC 39, OSC 40, OSC 41, OSC 42, OSC 43, OSC 44, OSC 45, OSC 46, OSC 47, OSC 48, OSC 49, OSC 50, OSC 51, OSC 52, OSC 53, OSC 54, OSC 55, OSC 56, OSC 57, OSC 58, OSC 59, OSC 60, OSC 61, OSC 62, OSC 63, OSC 64, OSC 65, OSC 66, OSC 67, OSC 68, OSC 69, OSC 70, OSC 71, OSC 72, OSC 73, OSC 74, OSC 75, OSC 76, OSC 77, OSC 78, OSC 79, OSC 80, OSC 81, OSC 82, OSC 83, OSC 84, OSC 85, OSC 86, OSC 87, OSC 88, OSC 89, OSC 90, OSC 91, OSC 92, OSC 93, OSC 94, OSC 95, OSC 96, OSC 97, OSC 98, OSC 99, OSC 100

ENVELOPES
 ATTACK, DELAY, SUSTAIN, RELEASE, ATTACK, DELAY, SUSTAIN, RELEASE, ATTACK, DELAY, SUSTAIN, RELEASE, ATTACK, DELAY, SUSTAIN, RELEASE

KEYBOARD
 SOFT, DOUBLE, LOWER, UPPER

PROGRAMMER
 MANUAL, GROUP, PROGRAM, CHECK, CASSETTE, RECORD

Oberheim

CD1: Io

VC01 — Normal Pitch
 VC02 — Normal Pitch

NOTES: _____

OB-Xa

MANUAL
 VOLUME, SOFT PEDAL, AUTO, HOLD, COARSE

CONTROL
 PORTAMENTO, LATCH, MASTER TUNE, OSC 1 DETUNE

MODULATION
 LFO, FREQUENCY, RATE, DEPTH, OSC 1, OSC 2, OSC 3, OSC 4, OSC 5, OSC 6, OSC 7, OSC 8, OSC 9, OSC 10, OSC 11, OSC 12, OSC 13, OSC 14, OSC 15, OSC 16, OSC 17, OSC 18, OSC 19, OSC 20, OSC 21, OSC 22, OSC 23, OSC 24, OSC 25, OSC 26, OSC 27, OSC 28, OSC 29, OSC 30, OSC 31, OSC 32, OSC 33, OSC 34, OSC 35, OSC 36, OSC 37, OSC 38, OSC 39, OSC 40, OSC 41, OSC 42, OSC 43, OSC 44, OSC 45, OSC 46, OSC 47, OSC 48, OSC 49, OSC 50, OSC 51, OSC 52, OSC 53, OSC 54, OSC 55, OSC 56, OSC 57, OSC 58, OSC 59, OSC 60, OSC 61, OSC 62, OSC 63, OSC 64, OSC 65, OSC 66, OSC 67, OSC 68, OSC 69, OSC 70, OSC 71, OSC 72, OSC 73, OSC 74, OSC 75, OSC 76, OSC 77, OSC 78, OSC 79, OSC 80, OSC 81, OSC 82, OSC 83, OSC 84, OSC 85, OSC 86, OSC 87, OSC 88, OSC 89, OSC 90, OSC 91, OSC 92, OSC 93, OSC 94, OSC 95, OSC 96, OSC 97, OSC 98, OSC 99, OSC 100

OSCILLATORS
 1: FREQUENCY, PULSE WIDTH, ENVELOPE, LFO, PULSE, SYNC, LFO, PULSE, SYNC, LFO, PULSE, SYNC
 2: FREQUENCY, PULSE WIDTH, ENVELOPE, LFO, PULSE, SYNC, LFO, PULSE, SYNC, LFO, PULSE, SYNC

FILTER
 FREQUENCY, RESONANCE, MODULATION, OSC 1, OSC 2, OSC 3, OSC 4, OSC 5, OSC 6, OSC 7, OSC 8, OSC 9, OSC 10, OSC 11, OSC 12, OSC 13, OSC 14, OSC 15, OSC 16, OSC 17, OSC 18, OSC 19, OSC 20, OSC 21, OSC 22, OSC 23, OSC 24, OSC 25, OSC 26, OSC 27, OSC 28, OSC 29, OSC 30, OSC 31, OSC 32, OSC 33, OSC 34, OSC 35, OSC 36, OSC 37, OSC 38, OSC 39, OSC 40, OSC 41, OSC 42, OSC 43, OSC 44, OSC 45, OSC 46, OSC 47, OSC 48, OSC 49, OSC 50, OSC 51, OSC 52, OSC 53, OSC 54, OSC 55, OSC 56, OSC 57, OSC 58, OSC 59, OSC 60, OSC 61, OSC 62, OSC 63, OSC 64, OSC 65, OSC 66, OSC 67, OSC 68, OSC 69, OSC 70, OSC 71, OSC 72, OSC 73, OSC 74, OSC 75, OSC 76, OSC 77, OSC 78, OSC 79, OSC 80, OSC 81, OSC 82, OSC 83, OSC 84, OSC 85, OSC 86, OSC 87, OSC 88, OSC 89, OSC 90, OSC 91, OSC 92, OSC 93, OSC 94, OSC 95, OSC 96, OSC 97, OSC 98, OSC 99, OSC 100

ENVELOPES
 ATTACK, DELAY, SUSTAIN, RELEASE, ATTACK, DELAY, SUSTAIN, RELEASE, ATTACK, DELAY, SUSTAIN, RELEASE, ATTACK, DELAY, SUSTAIN, RELEASE

KEYBOARD
 SOFT, DOUBLE, LOWER, UPPER

PROGRAMMER
 MANUAL, GROUP, PROGRAM, CHECK, CASSETTE, RECORD

Oberheim

CD2: S/H P.W.

VC01 — Normal Pitch
 VC02 — Normal Pitch

NOTES: _____

OB-Xa

MANUAL
 VOLUME, MIX, AUTO, HOLD, CHORD, MASTER TUNE

CONTROL
 PORTAMENTO, UNISON, OSC 2 DETUNE

MODULATION
 LFO, RATE, DEPTH, OSC 1, OSC 2, OSC 3, SQUARE, PULSE, SYNC

OSCILLATORS
 I: FREQUENCY, PULSE WIDTH, WAVEFORM, MODE, RANGE, OSC 2, OSC 3, SYNC, PULSE, MODE, RANGE
 II: FREQUENCY, PULSE WIDTH, WAVEFORM, MODE, RANGE, OSC 2, OSC 3, SYNC, PULSE, MODE, RANGE

FILTER
 FREQUENCY, RESONANCE, MIXED MODE, OSC 2, OSC 3, SYNC, PULSE, MODE, RANGE

ENVELOPES
 FILTER ENVELOPE: ATTACK, DELAY, SUSTAIN, RELEASE
 AMPLITUDE ENVELOPE: ATTACK, DELAY, SUSTAIN, RELEASE

KEYBOARD
 SPLIT, DOUBLE, LOWER, UPPER

PROGRAM BANK
 MANUAL, A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, 1, 2, 3, 4, 5, 6, 7, 8, 9, 0, CHECK, PLAY, RECORD

Oberheim

CD3: Strings V

VC01—One Octave Up
 VC02—One Octave Up

NOTES: _____

OB-Xa

MANUAL
 VOLUME, MIX, AUTO, HOLD, CHORD, MASTER TUNE

CONTROL
 PORTAMENTO, UNISON, OSC 2 DETUNE

MODULATION
 LFO, RATE, DEPTH, OSC 1, OSC 2, OSC 3, SQUARE, PULSE, SYNC

OSCILLATORS
 I: FREQUENCY, PULSE WIDTH, WAVEFORM, MODE, RANGE, OSC 2, OSC 3, SYNC, PULSE, MODE, RANGE
 II: FREQUENCY, PULSE WIDTH, WAVEFORM, MODE, RANGE, OSC 2, OSC 3, SYNC, PULSE, MODE, RANGE

FILTER
 FREQUENCY, RESONANCE, MIXED MODE, OSC 2, OSC 3, SYNC, PULSE, MODE, RANGE

ENVELOPES
 FILTER ENVELOPE: ATTACK, DELAY, SUSTAIN, RELEASE
 AMPLITUDE ENVELOPE: ATTACK, DELAY, SUSTAIN, RELEASE

KEYBOARD
 SPLIT, DOUBLE, LOWER, UPPER

PROGRAM BANK
 MANUAL, A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, 1, 2, 3, 4, 5, 6, 7, 8, 9, 0, CHECK, PLAY, RECORD

Oberheim

CD4: Clarinet

VC01—Normal Pitch
 VC02—Off

NOTES: _____

OB-Xa

Oberheim

CD5: Bright Drone

VC01—Normal Pitch

VC02—One Octave Up

NOTES: _____

OB-Xa

Oberheim

CD6: Rock Solo

VC01—Normal Pitch

VC02—Normal Pitch

NOTES: _____

CD7: Claves

VC01 — Normal Pitch
 VC02 — Normal Pitch

NOTES: _____

CD8: Jet

VC01 — Maximum Transpose Up
 VC02 — Maximum Transpose Up

In down transpose, start at C₃ and depress C₅ for takeoff, reverse for landing.

NOTES: _____

OB-Xa

MANUAL
 VOLUME BALANCE
 AUTO HOLD CHECK
 MASTER TUNE

CONTROL
 PORTAMENTO
 UPDOWN
 OSC 2 DETUNE

MODULATION
 LFO FREQUENCY PULSE WIDTH
 RATE DEPTH DEPTH
 OSC 1 OSC 2
 SQUARE OSC 1 OSC 2
 SLOP PULSE

OSCILLATORS
1 **2**
 FREQUENCY PULSE WIDTH FREQUENCY
 LFO RATE PULSE OSC 1 OSC 2 OSC 1 OSC 2
 SQUARE SQUARE SQUARE SQUARE
 SLOP PULSE

FILTER
 FREQUENCY RESONANCE MODULATION
 OSC 1 OSC 2 OSC 1 OSC 2 OSC 1 OSC 2 OSC 1 OSC 2
 HOLD HOLD HOLD HOLD HOLD HOLD HOLD HOLD
 NOISE ATTACK TRACK
 ATTACK DEPTH SLOP RELEASE

ENVELOPES
 FILTER ENVELOPE
 ATTACK DEPTH SLOP RELEASE
 LFO OSC 1 OSC 2

KEYBOARD
 SPLIT DOUBLE LOWER UPPER
 CHECK BLANK

PROGRAMMER
 MANUAL PROGRAM
 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 CHECK BLANK RECORD

Oberheim

ACD1: Water Wiggle

VC01—Normal Pitch
 VC02—Normal Pitch

NOTES:

OB-Xa

MANUAL
 VOLUME BALANCE
 AUTO HOLD CHECK
 MASTER TUNE

CONTROL
 PORTAMENTO
 UPDOWN
 OSC 2 DETUNE

MODULATION
 LFO FREQUENCY PULSE WIDTH
 RATE DEPTH DEPTH
 OSC 1 OSC 2
 SQUARE OSC 1 OSC 2
 SLOP PULSE

OSCILLATORS
1 **2**
 FREQUENCY PULSE WIDTH FREQUENCY
 LFO RATE PULSE OSC 1 OSC 2 OSC 1 OSC 2
 SQUARE SQUARE SQUARE SQUARE
 SLOP PULSE

FILTER
 FREQUENCY RESONANCE MODULATION
 OSC 1 OSC 2 OSC 1 OSC 2 OSC 1 OSC 2 OSC 1 OSC 2
 HOLD HOLD HOLD HOLD HOLD HOLD HOLD HOLD
 NOISE ATTACK TRACK
 ATTACK DEPTH SLOP RELEASE

ENVELOPES
 FILTER ENVELOPE
 ATTACK DEPTH SLOP RELEASE
 LFO OSC 1 OSC 2

KEYBOARD
 SPLIT DOUBLE LOWER UPPER
 CHECK BLANK

PROGRAMMER
 MANUAL PROGRAM
 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 CHECK BLANK RECORD

Oberheim

ACD2: Water Piano

VC01—Normal Pitch
 VC02—Normal Pitch

NOTES:

This patch uses a moderate amount of filter envelope on VC02, pulse width modulation, and a relatively long release time on the Loudness envelope to create a “floating” sound. This patch combined with the Carillon (ABD2) in Double 7.

OB-Xa

MANUAL: VOLUME, BALANCE, AUTO HOLD, CHORD, MASTER TUNE

CONTROL: PORTAMENTO, LEGATO, OSC 2 DETUNE

MODULATION: LFO FREQ, LFO DEPTH, LFO MIX, LFO OFF, LFO ON, OSC 1, OSC 2, OSC 3, SQUARE, SYNC, FREEZE

OSCILLATORS: 1 FREQ, 1 MIX, 1 OFF, 1 ON, 1 SAW, 1 PULSE, 1 SINE, 1 F ENV, 1 SQUARE, 1 MIX, 1 OFF, 1 ON, 2 FREQ, 2 MIX, 2 OFF, 2 ON, 2 SAW, 2 PULSE, 2 SINE, 2 F ENV, 2 SQUARE, 2 MIX, 2 OFF, 2 ON

FILTER: FREQUENCY, RESONANCE, MODULATION, ATTACK, DECAY, SUSTAIN, RELEASE, LOWPASS SHAPING

KEYBOARD: SPLIT, COARSE, LOWER, UPPER

PROGRAMMER: MANUAL, GROUP, PROGRAM, CHECK, PLAY, RECORD

Oberheim

ACD3: Slower Strings

VC01 — Normal Pitch

VC02 — Normal Pitch

Designed for use in a double combination. The attack may be shortened as necessary.

NOTES: _____

OB-Xa

MANUAL: VOLUME, BALANCE, AUTO HOLD, CHORD, MASTER TUNE

CONTROL: PORTAMENTO, LEGATO, OSC 2 DETUNE

MODULATION: LFO FREQ, LFO DEPTH, LFO MIX, LFO OFF, LFO ON, OSC 1, OSC 2, OSC 3, SQUARE, SYNC, FREEZE

OSCILLATORS: 1 FREQ, 1 MIX, 1 OFF, 1 ON, 1 SAW, 1 PULSE, 1 SINE, 1 F ENV, 1 SQUARE, 1 MIX, 1 OFF, 1 ON, 2 FREQ, 2 MIX, 2 OFF, 2 ON, 2 SAW, 2 PULSE, 2 SINE, 2 F ENV, 2 SQUARE, 2 MIX, 2 OFF, 2 ON

FILTER: FREQUENCY, RESONANCE, MODULATION, ATTACK, DECAY, SUSTAIN, RELEASE, LOWPASS SHAPING

KEYBOARD: SPLIT, COARSE, LOWER, UPPER

PROGRAMMER: MANUAL, GROUP, PROGRAM, CHECK, PLAY, RECORD

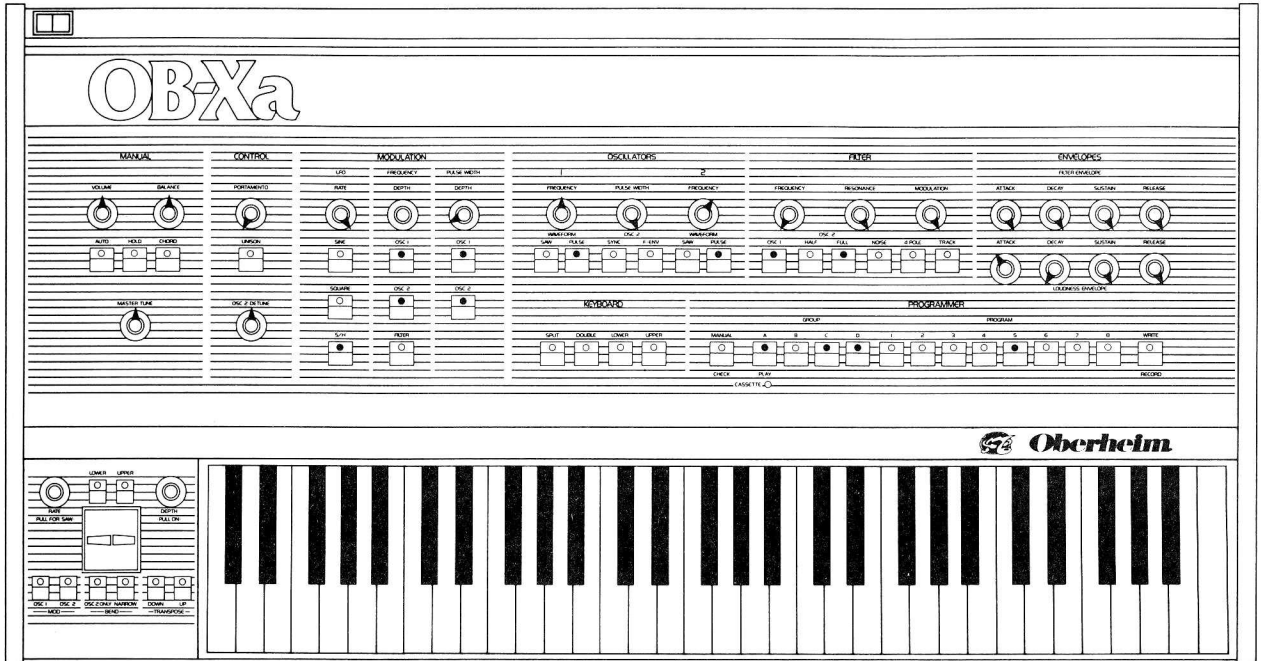
Oberheim

ACD4: Flanged Piano

VC01 — Normal Pitch

VC02 — Normal Pitch

NOTES: _____



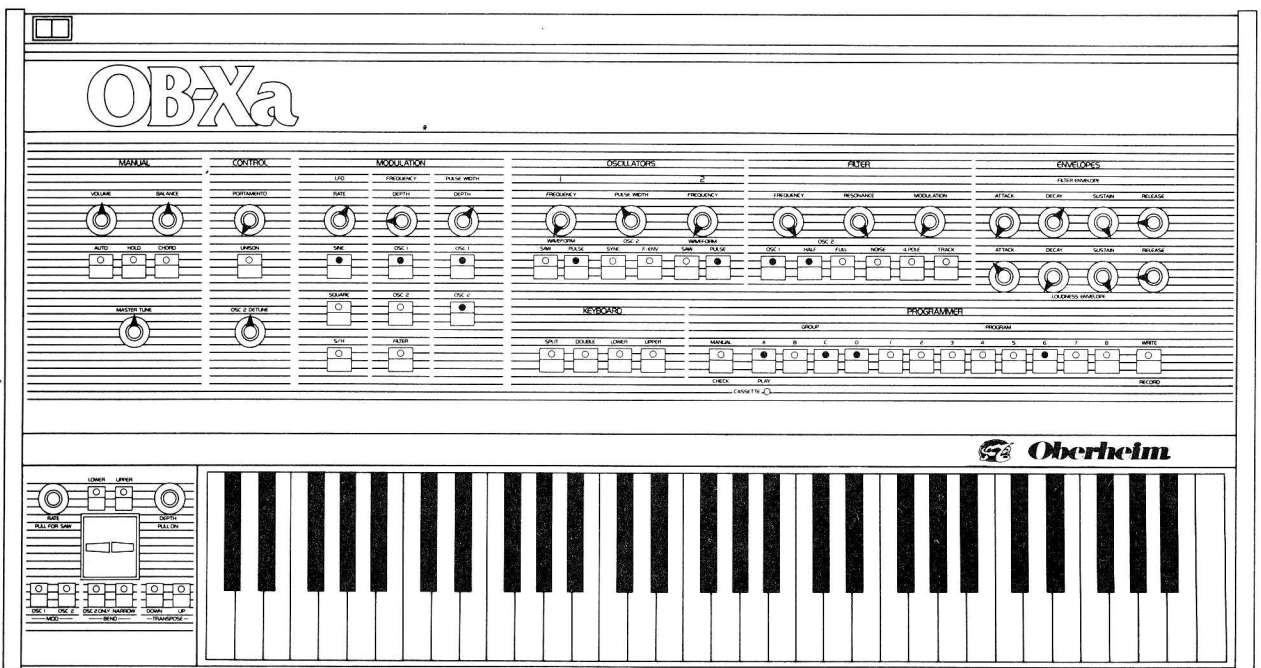
ACD5: Space Bugs

VC01—Two Octaves Up

VC02—Three Octaves Up

Play in up transpose for extra terrestrial anopholes invasion.

NOTES: _____



ACD6: Taped Voices

VC01—Normal Pitch

VC02—Normal Pitch

The filter used with maximum resonance and without the keyboard tracking, recreates the chest cavity that gives the human voice its distinctive sound.

NOTES: _____

ACD7: Thunder

VC01—Off
VC02—Off

NOTES: _____

ACD8: Pong

VC01—Normal Pitch
VC02—Off

NOTES: _____

