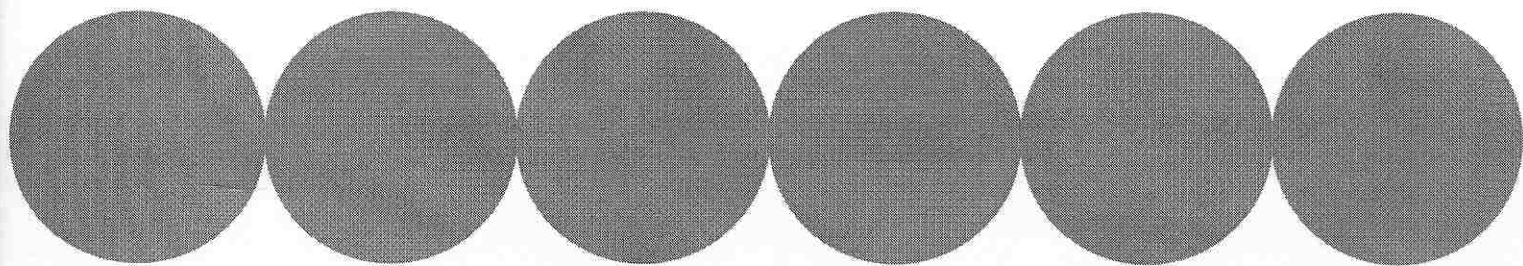


viscount

**CANTORUM III - JUBILEUM 161**  
**Expanders EXL 150 - EXL 200**



**MANUALE DI SERVIZIO - OWNERS' MANUAL - MODE D'EMPLOI - BETRIEBSANLEITUNG**

**CANTORUM III - JUBILEUM 161**  
**Expanders EXL 150 - EXL 200**

**Owner's manual**

Congratulations on having chosen a Viscount instrument.

To obtain the best possible performance from the instrument, please read this manual carefully before starting to use it.

Viscount has been a leader in the design and manufacture of fine keyboards instruments for over thirty years, and has attained an excellent reputation, world wide, as our many satisfied clients will affirm.

The success of Viscount instruments is the result of a continuous programme of research and development, which has used the most advanced technology and production methods available to manufacture musically superior instruments, that are not only easy to use, but will also give many years of reliable playing. The finest results of this process are to be found in the Viscount range of classical instruments. These use the latest sampling technology to produce absolutely realistic sounds which can be appreciated by everyone. Digital sampling is a unique system of sound generation which uses the recordings of notes produced by authentic organ pipes. The electronic sound image is then stored in a microprocessor, which is programmed to reproduce perfectly the original sound wave. So, when you press a key of a Viscount instrument, the sound you will hear will be the exact reproduction of the sound of a real organ pipe. This range of classical instruments is the first of a new generation of instruments which use this truly revolutionary technique. The meticulous care taken in their manufacture, guarantees years of playing satisfaction for all musical repertoires.

Study this manual carefully to obtain the very best results from your Viscount organ.

**How to install the instrument**

After unpacking the instrument, connect the jack of the adaptor to the input located on the rear panel and then to the external power supply ( In the Jubileum 161 connect only to external power supply)

N.B. Please verify that the voltage matches that required by the instrument.

Do not use power supplies other than the one supplied as they could seriously damage your instrument.

For any damage or malfunction of the instrument please refer to a qualified technician through your dealer.



It is advisable to disconnect your instrument from the external power supply when there is a storm.

### **Audio connection**

#### **For models Cantorum III and Jubileum 161**

It is possible to connect your organ to an external amplification system by doing the following operation:

- connect one or two audio jacks to the outputs L/R
- connect them to your amplification system

#### **For the Expanders EXL 150 and EXL 200**

Connect one or two audio jacks to the inputs L/R and to the input of your amplification system.

### **Switching on**

Before switching the instrument on, please ensure that the general volume is not at the highest level, to avoid damage to the loudspeakers or to the external amplification.

The normal procedure is to switch on the instrument, then to adjust the volume to a low level on your amplifier, then switch on the amplifier and adjust the volume according to your needs.

Before switching off: lower the volume of the amplifier, switch the amplifier off and then switch off the instrument.

### **Front panel**

You will see several register voice tabs on the front panel. When selecting one of these voices, the light will be on.

You may play together the voices of Man. I, Man. II and Pedal ( the pedal has a maximum range of 32 notes including an eventual transposition) to hear their rich sounds.

Once registers have been selected, they will play over the complete keyboard except for the registers of the pedal that will play on 24 keys only from the left and in a monophonic sound i.e. one by one.

The register Tremulant will not produce any sound but will give a Tremulant effect to the Man. II voices.

You have also the possibility of selecting four extra voices: Piano and Spinet on Man. II and Choir and Strings on Man. I.

These extra voices may be activated through the switches located on the front panel left from the "Split" . To facilitate the use of the Piano and Spinet voices you should connect a sustain pedal to the rear panel of the instrument (only for models Cantorum III - EXL 150 and EXL 200)..

These extra voices will not play together with the organ voices. This means that if you are playing a combination of registers and switch on one of the extra voices, the registers will stop playing and will play again only if you have switched the extra voice off.

The extra voices (belonging to the same section i.e.: Piano and Spinet) do not play together. But you may play the extra voice of one section together with an extra voice of the other section.

You may enhance the sound of your instrument by selecting one of the three Reverb. effects. The first reverb. does not affect the sound so much compared with the second one and the third one is deeper.

### **Selection of presets and free combinations**

On the front panel you will find a switch marked "0". When this switch is on, the green LED will show and you will hear what you have selected on Man. I, Man. II and Bass.

Next to it you will see a serie of switches marked 1, 2, 3, 4 and 5 .

These are memory switches and may contain combinations of organ registers or the extra voices according to your wishes.

In order to program a free memory, you should choose from the front panel a combination of registers; hold pressed switch SET/PG and, avoiding pushing any tab on the keyboard, press the number of the free memory in which you wish to memorize the combination you have chosen.

By selecting one of these switches you may play these combinations on any part of the keyboard or on the complete keyboard after having memorized the combination with or without the use of the split.

The switches of the free memories will function one by one and exclude the combination of registers you have on the front panel.

To play again the selected register on the voice panel, push again switch "0" .

### **Split function for models Cantorum III and Jubileum 61**

If you have switch "O" on or are playing a memory and push switch "Split", the keyboard will split two parts with the split point on the 24th key from the left .

Now the right hand is free to play the registers of the section Man. II whilst with the left hand you may play register combinations of Man. I .

If we use one or more registers of the Bass section, the note to the left will play the selected registers of the Bass section .

It is possible to balance the registers of section Man. I with those of the Bass section and those of the section Man. II by adjusting the potentiometers located to the right of the Master Volume .

As already explained, also for the section Man. I it is possible to select two extra voices i.e. Strings and Choir .

Similarly for the Man. I voices Piano and Spinet, but remember that these voices cannot be played together or with the other voices of the same section.

### **Split function for models EXL 150 and EXL 200**

The Split function on the Expander changes according to the Midi channel assigned to the various sections. In fact it is possible to obtain two different functions: Number one = Midi channels are the same, Number two = Midi channels are different for each section.

Suppose we have connected our Expander to a keyboard transmitting on a single Midi Channel like Ch. 1

The Expander sections are coupled on the following Midi Channels:

Man. I = Ch. 2

Man. II = Ch. 1

Pedal = Ch. 4

therefore by activating the Split we will be able to control the Man. II registers.

To increase the potential of the instrument it is possible to program all sections on the same Midi Channel. This is possible through the switch marked Midi Ch.

By pushing this switch, the Led's will light indicating the sections. At the same time a Led above the voice switch will light indicating in this case the number of the Midi channel assigned to this section.

To change the number of the Midi Channel you press the switch of the number you wish to assign. Under the Led of each switch there is an inscription indicating the selectable number of Midi channel.

It is possible to repeat this procedure for other sections, by continuing to press the switch marked Midi Channel, until you have selected the chosen channel - the Led will light.

To stop the programme, you have to press again the switch, Midi Channel, until the three Led's go off.

At this point if you have assigned Midi Channel 1 to all sections and have pressed the Split, it will work as follows:

### **Functioning of the Split with the same Midi Channels (EXL 150 and EXL 200)**

If you have switch "0" on or are playing a memory and then push switch "Split", the voices of the sections will be splitted into two parts with the split point on the 24th key from the left. Now the right hand is free to play the registers of the section Man. II whilst with the left hand you may play register combinations of Man. I

If you switch also some registers of the Pedal section, the note to the left among the one's played left from the Split point will play the registers of the section Pedal.

It is possible to balance the registers of the section Man. I with those of the section Bass and those of the section Man. II by acting on the concerned potentiometer located right to the Master Volume.

Furthermore, as said before, also for section Man. I it is possible to select two extra voices like Strings and Choir.

These two voices have the same restrictions as the voices Piano and Spinet.

### **Functioning of the Split with different Midi Channels (EXL 150 and EXL 200)**

If you have set the three sections on different Midi Channels, when the Split is off, the Expander will receive and work out the information separately on each channel playing over the complete keyboard.

Activating the Split (On) the Expander will continue to receive on three separate channels but only on the part of the keyboard to the set Split point.

N.B. The above does not apply to pedal section which play monophonically.

### **How to change the Split point**

It is possible to change the Split point on the keyboard by using the following procedure:

Keep pressed the switch "Split" ( its LED will flash), press a key of the keyboard where you want to set the Split.

Release the "Split" switch ( the LED will illuminate).

The new Split point has been set .

If the Split point is set above the 24th key from the left, the Strings and Choir voices of section Man I will lower the tuning by an octave.

By setting the split point at top C it is possible to play voices of Man. I section along the complete keyboard.

### **How to change the sound of the registers**

Through the first switch to the right called Variation A/B, it is possible to choose between two different sounds for the registers.

The choice affects all the registers.

It is therefore not possible to have for one section registers with the sound type A and for another section registers with the sound type B. But it is possible to program a memory with registers of the type A and another memory with registers of the type B.

## How to transpose a keyboard

Your instrument has also a Transposer function.

The range of the transposer is of + 2/- 4 half tones.

In order to operate the transposer, you have to move the transposer switch. The value of the transposition will be shown by the Leds.

## Demo Song

Your Cantorum III is equipped with a Demo Song.

**Models Cantorum III and Jubileum 161:** To play the Demo Song, please ensure that at least one register for each section is on, than push the Demo switch. It is possible to modify the registrations of voices whilst the Demo piece is playing.

To stop, press Demo switch again.

**Models EXL 150 and EXL 200:** Please ensure that at least one register for each section is on, than push the Set switch and keeping it pressed, press also Midi Ch. switch.

It is possible to modify the registrations of voices whilst the Demo piece is playing.

To stop, press the two switches again.

N.B. the extra voices cannot be selected if the Demo song is playing.

## Midi

Your instrument conforms to the International Midi Standard and may be connected to any instrument with Midi

## Midi connection

### Models Cantorum III and Jubileum 161

If you wish to run an external unit like a synthesizer or a sampler, you have to effect following connections:

- from the Midi Out of your instrument, connect the cable (din 5 pins) to the Midi In of the external instrument.

N.B. So that the external unit receives and transmits the informations it is necessary that the Midi Channel on which it has been programmed is the same of the section of your instrument.



The a.m. connection can be used also for a connection to a sequencer or to a computer.

In case we want to listen to what we have recorded, then we have to connect another Midi cable from the output of the sequencer (Midi Out) to the input (Midi In) of your instrument.

### **Models EXL 150 and EXL 200**

If you wish to run your expander from a synthesizer or a sequencer, you have to effect following connections:

- from the Midi Out of the synthesizer or the sequencer connect a cable ( din 5 pins) to the Midi In of your Expander.

N.B. So that the Expander receives and transmits the Midi informations it is necessary that the Midi channel on which it has been programmed is the same of the section of the Expander we want to run.

### **Midi Thru**

Through this extra Midi Jack it is possible to transit the datas coming from the Jack In of the instrument, to execute and re-transmit them unchanged to the external unit, like for ex.:

- suppose we have a piece recorded on a sequencer that we want to execute at the same time on our instrument and on the external module: we have to connect a Midi jack from the Midi Out of the Sequencer to the Midi In of our instrument and another cable from the Thru jack of our instrument to the In jack of the external module.

We will hear the piece from both the instruments.

### **Multi-timbral instruments**

Our instrument may be considered a three part multi-timbral instrument. Each part can be programmed to receive informations on any channel.

There is also another section called "global" receiving and transmitting information on Channel 16.

This information is of general use for the instrument and concern the program change of the free memories and the general volume of the instrument.

To ensure that all features are completely active via Midi, please check that Split switch is off.

The information transmitted and received through the Midi sockets located on the rear panel are:

- information concerning the notes (on-off and volume). The instrument is not able to send or to execute codes indicating dynamic, aftertouch etc.



- Control Change: the control changes transmitted and received are those concerning:

- a) the Master Volume transmitted on Channel 16 (Global) or on channels 2 and 4 if the pedal has been connected on the rear panel,
- b) the potentiometer controls of Man., I, Man. II and Pedal,
- c) the Sustain or Damper pedal if it is connected on the rear panel (This code is also transmitted (only on Cantorum III) and received only on Channel Midi 1
- d) the three types of Reverb. ( Value 0 = effect off - Value 1 = Reverb 1 On - Value 2 = Reverb 2 On - Value 3 = Reverb. 3 On),
- e) it switches also on and off the Tremulant register of Man. II..

N.B. The damper information ( received and transmitted only on Channel assigned to Man. II) functions only if registers Piano and Spinnet are On.

- Programme Change: Codes for programme Change may be transmitted from the Midi Out of your instrument exclusively on Channel 1 ( and on Channel 16 on Expanders EXL 150 and EXL 200, whilst the selection of the internal programmes is functioning via Midi through exclusive protocol .

### **For models Cantorum III and Jubileum 161**

To recall a programme on an external unit connected through the Midi Out of your Cantorum III or Jubileum 161, you have to operate as follows:

- Keep pressed PG tab ( the last to the right on the front panel) and press a note on the keyboard.

To each note has been assigned a progressive number of programme changes for a maximum range of 61 selections.

N.B. - If the receiving unit has not been selected on Channel 1, there will be no result.

### **Connections**

- 1) Headphone jack : Here you may connect a stereo headphone to play silently.
- 2) Jack for external power supply: 12 V d.c.(only on Cantorum III - EXL 150 - EXL 200)
- 3) Jack for the expression pedal of Man. II (only on Cantorum III - EXL 150 and EXL 200).
- 4) Audio outputs: Usually used for recording or for connecting the instrument to an external amplification
- 5) Midi In: Here are received all Midi codes from an external unit
- 6) Midi Out: Here are transmitted all Midi codes to be sent to external units.
- 7) Midi Thru: The Midi signal received on the Midi In will be sent again without any changes through this output to external units predisposed to the reception.

8) Tuning control: This pitch allows the tuning of the instrument. Usually it is tuned with LA = 440 Hz - pitch in the central position)

### Midi Implementation and Midi Implementation Chart

Pls refer to the last page of this owner's manual

**MIDI IMPLEMENTATION CHART**

**MODEL**

**CANTORUM III - JUBILEUM 161**

<u>Function</u>		<u>Transmitted</u>	<u>Recognized</u>	<u>Remarks</u>
Basic Channel	Default Channel	1 - 2 - 4 - 16	1 - 2 - 4 - 16	Default Memorized
Mode	Default Messages	x		Bass Section is monophonic
Altered	*****	x	Mode 3	
Note Number	True voice	32 - 99	32 - 99	Incl. Transposer range 32-66 for Bass section
Velocity	Note ON Note OFF	x	x	
After Touch	Key's Ch's	x	x	
Pitch Bender		x	x	
Control Change		o	o	C 64 Damper follows Man: II channel C7 C 91 for Reverb. type C 92 for Tremolo (only for Man. II sect.
Progr. Change		0 127 (only for Ch. 1)	x	General memories 0 to 5 are received on dedicated Ch.16
System exclusive		o	o	
System ; Common :	Song Pos Song Sel Tune	x	x	
System Real Time:	Clock ommands	x	x	
Aux :	Local ON/OFF	x	x	
Mes-:	All notes OFF	x	o	
sages:	Active Sense	o	o	
	Reset	x	o	
Mode 1 :	Omni on, Poly		Mode 2 : Omni on, Mono	o=Yes
Mode 3 :	Omni off, Poly		Mode 4 : Omni off, Mono	x= No

**MIDI IMPLEMENTATION CHART**

**MODEL**

**EXL 150 - EXL 200**

<u>Function</u>		<u>Transmitted</u>	<u>Recognized</u>	<u>Remarks</u>
Basic Channel	Default Channel	1 - 2 - 4 - 16 1 - 16	1 - 2 - 4 - 16 1 - 11	Default Memorized
Mode	Default Messages	x x *****	Mode 3	Bass Section is monophonic
Altered				
Note Number	True voice	x *****	32 - 99	
Velocity	Note ON Note OFF	x	x	
After Touch	Key's Ch's	x	x	
Pitch Bender		x	x	
Control Change		o	o	C 64 Damper follows Man: II channel C7 C 91 for Reverb. type C 92 for Tremolo (only for Man. II sect.
Progr. Change	True	x	0-5 On Ch. 16	for general memories
System exclusive		o	o	
System Common :	Song Pos Song Sel Tune	x	x	
System Real Time:	Clock commands	x	x	
Aux : Mes-: sages:	Local ON/OFF All notes OFF Active Sense Reset	x x o x	x o o o	
Mode 1 : Omni on, Poly			Mode 2 : Omni on, Mono	o=Yes
Mode 3 : Omni off, Poly			Mode 4 : Omni off, Mono	x= No