

# Schober Organ Notes No. 95

February/March 2006

*Disclaimer: We accept no responsibility for any unfavorable consequences resulting from following our advice*

## OVERTURE

Well, as you see I'm late again. Sorry, things are just hectic right now. The next issue will be on time ...unless ... Hope you are all well.

## THE VALENTINE SCHOBER (continued)

### HV EFFECTS:

IMG\_0114\_10.JPG shows the 11 switches and a potentiometer mounted on the lid.

IMG\_0008\_11.JPG shows the location of the PCB'S under the lid. To the right of PCB HV EFFECTS LESLIE are 2 small white rectangles. These are the 2 nameplates for TREMOLO and VIBRATO switches as shown on drawing

HV EFFECTS IMG\_0004\_3\_3.JPG which is HV--LESLIE 4 SCHEMATIC - 2

The STOP SWITCH marked HV EFFECTS when ON connects either or both manuals to this section depending on whether they are selected by the first 2 switches. From left to right switches are:

1. Connects SOLO manual
2. Connects ACCOMPANIMENT manual

NOTE: If both SOLO AND ACCOMPANIMENT switches are ON the SOLO KEY DOWN signal has preference in starting the AUTOWAH - ROUND TRIP & BRASS functions.

3. MAN WAH -- Effect (sound) varied with potentiometer
4. WAH-1 (AUTO WAH) -- Effect (speed) varied with potentiometer
5. WAH-2 (ROUND TRIP) -- Effect (speed) varied with potentiometer
6. WAH-3 (CONTINUOUS WAH) -- Effect (speed) varied with potentiometer.
7. BRASS

Only one of switches 3-4-5-6-7 active at any time. The higher number switch takes preference, e.g., switch 7 takes preference over 3-4-5-6 and turns their LED off if switch is on. If any of switches 3-4-5-6-7 are ON the selected effect operates. If all are OFF they are bypassed. Sound then goes to switches 8-9-10-11

8. HEV-1 -- Slow speed LESLIE
9. HEV-2 -- 2nd speed LESLIE
10. HEV-3 -- 3rd speed LESLIE

## 11. HEV-4 -- top speed LESLIE

With any one switch ON 8-9-10-11 then if a second of these switches are turned on the LESLIE effect will be DEEPER. If any switch 8-9-10-11 is ON the selected effect operates. If all of these switches are OFF they are by passed.

HV EFFECTS0005\_4\_2.JPG ~V drawing of HV LESLIE ~V SCHEMATIC - 3

HV EFFECTS0006\_5\_2.JPG ~V drawing of HV ~V WAH 1

HV EFFECTS0007\_6\_1.JPG ~V drawing of HV ~V WAH 2

HV EFFECTS0008\_7\_2.JPG ~V drawing of 20ms DELAY page 1

HV EFFECTS0009\_8\_2.JPG ~V drawing of 20ms DELAY page 2

HV EFFECTS0010\_12.JPG ~V drawing of 20ms DELAY page 3

HV EFFECTS002\_1\_3.JPG ~V drawing of HV EFFECTS SWITCH ~V RELAY ~V SCHEMATIC

HV EFFECTS0003\_2\_3.JPG ~V drawing of HV ~V LESLIE 4 ~V CONTROL ~V SCHEMATIC -

1 KEY DOWN0001\_9.JPG ~V drawing of KEY DOWN ~V VIBRATO ~V SOFT ATTACK SCHEMATIC

## TONE POTS

On top of the lid is the TONE POTS. It consists of 9 potentiometers (photo IMG\_0051\_2\_8.JPG\*) and seven segment displays and a switch to have them in or out of service. I should have called them TIBIA POTS as I have used the TIBIA filter for them. When potentiometers are operated indication is given from 0 to 7 on the displays which is the strength of analogue signal being used. The first two starting from the left are PEDAL 16' and 8'. The next two are the ACCOMP. 8' and 4' and the last five are SOLO 16', 8', 4', 2' & 1'. There input comes from the BUS AMPLIFIER. When the switch is turned on the only stop switches that work are the PERCUSSION. The effects such as VIBRATO and HV EFFECTS still work. In other words they work like drawbars on a HAMMOND organ. One can get a great variety of sounds from them including a very loud TIBIA. The PCB's for them are mounted under the lid as on photo IMG\_0008\_11.JPG. TOP OCTAVE & TONE GENERATORS

First you need 2 MHz oscillator to provide the input to TOP OCTAVE GENERATOR. The outputs of it (C to B) are fed to the 12 TONE GENERATORS. They in turn produce all the tones for the keys on the keyboards and 8' tones on the pedal board. I produce the 16' tones on it by dividing each tone by 2.

2 MHz OSCILLATOR (required for input to TOP OCTAVE GENERATOR)

TOP OCTAVE GENERATOR ~V 3 ~V HV

TOP OCTAVE GENERATOR ~V 4 ~V HV

TOP OCTAVE GENERATOR PCB ~V HV

TONE GENERATOR SCHEMATIC ~V HV

## TONE GENERATOR PCB ~V HV

## TONE GENERATOR CALCULATIONS

## FREQUENCY ERRORS WITH

Using OSCILLATOR and TOP OCTAVE GENERATOR the relationship between all top octave notes remain the same. Always in tune no adjustment required. To work in with above have designed the TONE GENERATOR PCB also for the lower octaves.

## BALANCE - VIBRATO SELECT RELAYS

## VIBRATO SCHEMATIC

Replaces rotary switches.

## MIXER

For Pedal Percussion voices, Special Effects, Cassette, Toy Counter & Microphone.

## PLAYTHINGS

I have been looking at adding lights to the Schober like the Compton Theatre Organ used to have. Decided adding these Jelly Moulds to it would be impracticable and too big a job for me now, so I looked at alternatives. There are different types of lights available and decided on 20mm LEDS that were available in four colors, being RED, GREEN, YELLOW & BLUE. These I have mounted on both sides of the organ at the front, the only place I could find suitable. One can select by rotary switch to have them OFF, either ON. Also, there are two more positions where you can select either R,G,Y,B or R,Y,G,B. Then, with these last two positions, as you play the organ they will start rotating colors in order selected. The louder you play the faster colors will rotate. That's my answer to the Compton~Rs Jelly Moulds for the Schober. The photos are: Colored lights 0001\_1\_4; 0002\_2\_2; 0003\_2\_2\*; 0004\_4\_2; 0005\_5\_2; 0006\_6\_2.

NOTE: The photos mentioned are available. The schematics will be available -- Harry Valentine is sending them to me via snail mail as the e-mailed versions were not sharp enough to read well. If you are interested in schematics send a SASE and an extra stamp for four. For more than four, adjust postage and send extra stamps. For COLOR photos, please send a SASE and an extra stamp for two Pages. I can print either 1 or 4 to a page

## **A LITTLE STORY ABOUT CAPTAIN C. WM. BAILEY'S SCHOBERS by William Bailey**

We have a beautiful Recital Schober sitting in the corner of my studio patiently waiting for loving care. It has been silent for ten years when my bride of 48 years and mother of three sons was "Promoted to Glory" after a career as a popular substitute church organist who was at home on every type of organ and in every denomination in South Florida. Unfortunately the rest of this amateur musical family are inclined toward other instruments and none are proficient in keyboard. So the Schober sits, abandoned and alone.

When we were married in 1947 she was a pianist and happily accompanied me in trumpet recitals. She hated to become an "orchestra widow" since I was playing somewhere four or five nights a week, so she took up the oboe. This worked well for a number of years until she developed an incurable ear disease and that was the end of the oboe and accompanying the trumpet. Surprisingly the sound of an organ did not make her dizzy. Two of my sons were in

amateur radio so it was not long before we had the Schober kit spread out and in a couple of months she had her first organ lesson in 1970.

My father was a church organist and recitalist and I can remember in 1927 he was playing for the dedication of a convention center down South and the page turner didn't show up. He turned to me, an eleven year old, and said "Climb up on the bench with me and turn the pages". I have been an organ lover ever since. When he went out of town I, knowing where the power key was hidden, would go up in the church and be a one finger player. I never got caught.

What is all this leading up to, you ask?

Now in the year 2006 I am putting a 3600 pipe "Moeller" Organ in our new church. I am just providing the cash while one of my sons is doing the electrical and computer work, having redesigned the console from pneumatic operation. A local organ company is doing the re-building. I am sure that after the next six months he would be willing to discuss the technical side of the project with any reader interested. We are both determined that when this project is completed we will get our Schober, which gave such pleasure to us all, back into shape even if we have to get a friend to play it.

#### INTERESTING LINKS:

<http://www.virtualorgan.com/RunScript.asp?p=ASP\Pg0 .asp>

<http://www.milandigitalaudio.com/listen.htm>

### ORGAN COURSE

A friend of our group sent me the following: Alex, I thought I'd send this info along for you to pass on to the members of your organ group. It was part of a message in the Theatre Organ Academy Yahoo group I referred you to earlier: Classic McMains Series of Theatre Organ Tutorials of which there are four volumes and an accompanying record.

Cy has taken the original books and scanned them into his Apple Macintosh computer for printing, and then bound them into a single volume with dividers and spiral binding so they lay flat on the music rack. The records have been remastered onto a CD of very high audio quality that sounds much better than the original records. The work is well worth the asking price of forty dollars and it is highly recommended. This text and CD will be the standard study material for the Academy during the year of 2006. This will be the year when we all dig in and learn about "The Horseshoe Sound" from the legendary organ teacher, William McMains.

To visit the group on the web, go to: [http://groups.yahoo.com/group/theatre\\_organ\\_academy/](http://groups.yahoo.com/group/theatre_organ_academy/)

To unsubscribe from this group, send an email to: [theatre\\_organ\\_academy-unsubscribe@yahoogroups.com](mailto:theatre_organ_academy-unsubscribe@yahoogroups.com)

Your use of Yahoo! Groups is subject to: <http://docs.yahoo.com/info/terms/>

### ADS

*Disclaimer: Any deals, making of payments, receipt of payments or verifications are strictly your responsibility.*

#### Looking for:

A fellow Schober owner in ONTARIO. Contact: Ken Schwartzentruber [kengrace@look.ca](mailto:kengrace@look.ca)

**Free: Original Console tube Schober**

Contact: Paul Harrison Granite Bay, CA Telephone: (916) 791-1629 pharrison@surewest.net

**Free: Schober Recital**

Here is part of what Ronald C. Duck wrote:

I don't know how large the ad will be but I'll give you all the information I can. A little history: I acquired the organ from a fellow employee. It was in his storage room for about 15 years and he needed the room. It was never completed fully and I have the talent to do such things. I replaced all the old type transistors, capacitors and had the reverb aligned. I have added a few things but not to take away from the nice instrument it is. I work full time and am home about 4:30 pm 5 days a week. Usually not home Sat. but Sunday all day. It is located in Littlestown, PA 2 miles from the border of Md. and mid-state near interstate #15 close to Gettysburg. Contact: Ronald. Telephone: (717)-359-9293, rond@superpa.net

**Unassembled Schober Kit**

I am writing you this letter because I have a Schrober Organ, brand new still in the box unassembled. All the instructions are with it. The paper work says it is solid walnut. I am unsure of the year, I think it is a 1973, some of the paper work says 1976. This organ has everything, it even has the glue, stain and paint brushes that were included in the kit when purchased. If you are interested in knowing more about this organ, e-mail us at: microchef2@aol.com (*It may be that this is only the console? A.K.*)

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Editor/Publisher: Alexander Kruedener,  
Winter: 161 East 89 Street, Apt. 4E New York, NY 10128 (212) 831-0662  
Summer: 73 N. Lamphear Road Jamaica, Vermont 05353 (802) 874-4894  
Kruedener@juno. com

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Fred Henn Founder & Headmaster Emeritus

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EDITOR Alex Kruedener kruedener@juno. com

EMAIL Jack D. Gildar JDgildar@juno. com

Schober Organ Orphans' Web Page: <http://www.cloud9.net/~pastark/schober.html>