



## Transform Your Pipe Organ

### Getting More Flexibility and Variety From Your Pipe Organ

Twenty years ago, who would have thought that pipe organ companies and organ purists, would be looking to electronic organ companies and manufacturers of organ electronics to enhance their instruments and control the operation of them. Today, it is common practice for pipe organ companies to use digital control in consoles and digitally sampled stops to make new instruments less expensive. More and more, organ technicians are upgrading pipe organs with the same digital electronics used in fully electronic organs.

At **Phoenix Organs**, we're not just about building all digital organs. A large percentage of our business is in the transformation of pipe organs into technologically advanced controllers. Organists are no longer satisfied with sluggish console response, limited combination action, a small pipe organ that can hardly accompany congregational singing or manage a limited selection of the organ literature. But it goes further than that! All Phoenix Organ consoles, rebuilt or new, have MIDI and all of its benefits.



Right from its conception, the Phoenix System was designed to be used with both pipe organs and electronic organs or a combination of both. Hybrid organs (mixing pipes and sampled stops in one organ) are very successful due to several outstanding features:

- 1. The pipe control part of the system was a major part of the concept right from the beginning of the engineering stage. It was never an add-on or after-thought.**
- 2. The pipe driver circuit boards are of very high quality and are designed to provide many years of trouble-free service.**
- 3. Adjustable delays can be set to match the speed of windchest actions so that the response of the digital stops perfectly match any pipe organ.**
- 4. Our outstanding automatic tuner circuitry accurately maintains the pitch of the sampled stops with pipes.**
- 5. Setting up (and/or altering) pipe chest configuration can easily be done at the console.**

# Up-grade or Replace Your Pipe Organ Console



## Rebuilding Your Console

The Phoenix control system is designed to provide you with all of the custom features any organist, of any level of experience, could imagine.

Phoenix has a reputation for organ console building and you can expect the new stop jambs, coupler tab rail, thumb piston rails and new key blocks to be as they should. Our cabinet shop can refinish the console if it needs it, or, in some cases, reduce the depth of the console.

We use only the finest pipe organ hardware in the rebuild of the console. In some cases the keyboards will need to be re-bushed with felt, or new keyboards may be in order. There are various options to suit all budgets. Phoenix' opto-isolator keyboard contact system, proven to be precise and dependable, can be installed.



A gutted console in the process of being rebuilt.



The finished console. All new walnut stop jambs, coupler tab rail and thumb piston rails, as well as all new hardware.

## Replacing Your Console

Large pipe organ consoles are no longer necessary with the Phoenix state-of-the-art control system. While console width will not be significantly reduced, the depth and weight will. For churches looking to make chancel renovations, a smaller console and being able to easily move it, provides more flexibility.

Phoenix Organs builds quality consoles which are comfortable and compact, yet maintain the traditional styling pipe organists expect. Only top quality hardware, such as draw-knobs, coupler tabs, thumb and toe pistons from pipe organ hardware suppliers is utilized.



Typical 3 manual Phoenix console.



Typical 4 manual Phoenix console.

## Digital Stop Additions For Pipe Organs

Phoenix digital stops may be added to any pipe organ with amazing end results. Timing and speech of the digital stops can be adjusted to match the pipes of the same division and, with the Phoenix voicing software, the digital stops can be regulated and tuned to do the job seamlessly. It is not uncommon for Phoenix personnel to be asked by organists "can you please go over all the stops and tell me which are digital and which are pipe?"

Technicians may be asked occasionally to add digital extensions to existing pipe ranks. We can often do this successfully using samples already in our library, but if this is not the case, Phoenix will sample existing pipes and create new octaves that match perfectly. Phoenix prefers not to do any borrowing of ranks but it can be done with our system.

Equipment for digital stop additions includes:

- 1) **the electronic system built into a black box.**
- 2) **power amplifier(s).**
- 3) **speakers.**

The amount or size of these units depends on what stops are used and how many are involved. A very common addition to a pipe organ is pedal stops, including those of 32' pitch. For a medium to large church, there are usually two speakers for the 32'. Each cabinet is 10 cubic feet- a fraction of the size of the equivalent pipes.

To hear some of our pipe sample work, please go to our website — [www.phoenixorgans.com](http://www.phoenixorgans.com). Phoenix pipe samples are being heralded on both sides of the Atlantic. More importantly, we have the craftsmanship and artistic talent to blend samples and pipes for an outstanding and exciting finished product.



Recording pipe samples from the Letourneau pipe organ at Church of the Ascension/St. Agnes, Washington DC.



John Tuttle, organist St. Thomas Anglican Church, Toronto and Donald Anderson, of Phoenix Organs (seated), voicing the digital pedal stops added to the Guilbault Therien organ.



Phoenix Organs new 4 manual console and 15 sampled stop additions to the previous 3 manual pipe organ at St. James Church, Stratford, Canada.

## Year 2000 Technology

**Not all pipe organ digital extensions, rebuilds or up-upgrades can be considered equal. The Phoenix system is up-to-date, year 2000 technology, making it more compact and efficient than other systems on the market.**

Our circuit boards and sub-assemblies are manufactured using the latest techniques complete with accredited quality assurance and testing at all stages of production. This offers the end user a product which is inherently reliable, and will continue to give sterling service for many years to come.

As technology allows us to simulate the sound of the original pipe more accurately than ever before, the tonal gap between pipe organs and their electronic counterparts is narrowing all the time. It is now at the stage that the difference is so small that the rate of improvement is slowing down accordingly. Thus today's organ will go out-of-date less quickly than an organ of the eighties.



[www.phoenixorgans.com](http://www.phoenixorgans.com)

Or contact us at:  
Phoenix Organs  
P.O. Box 1962  
Peterborough, ON, Canada  
K9J 7X7  
Tel: (705)750-1257



## What Goes Into a Phoenix Rebuild



One of the models of fine drawstops used in Phoenix Organs and found in many respected pipe organs.



Toe pistons with felt bushings and expression pedals with the correct amount of drag simulating operation of swell shades.



Quality keyboards and thumb pistons.



Cherry wood stop jams name board, thumb piston rails, music desk, Skinner-style key blocks, and exotic wood drawknobs.