

## Mechanical (Tracker) Action Organs

The *mechanical* a.k.a. *tracker key action* is the oldest type of key action still in use in many organs today. It is called tracker action because it utilizes mechanical connections that tracks from the keys on the console to the valves (or pallets) under the pipes. This action requires lengths of trackers and roller bars to distribute the action to the proper pipe. The console of a tracker organ must be close to the pipework for the key action to remain light, tight, and responsive.



Looking behind the mechanical/tracker action

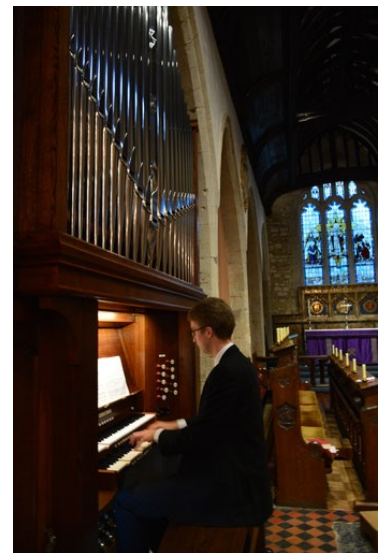


Mechanical/Tracker action in large tracker organs can be very complicated!

Many times, though not always, tracker organ consoles are built right into the organ casework and pipes! If the console is detached from the casework and pipes, it must be very close in order for the mechanical action to work properly.



Key desk on the side, but still close to pipes and chests.



Notice keyboards are recessed into organ case

Dobson tracker organ St. John United Methodist Church Augusta, Ga.



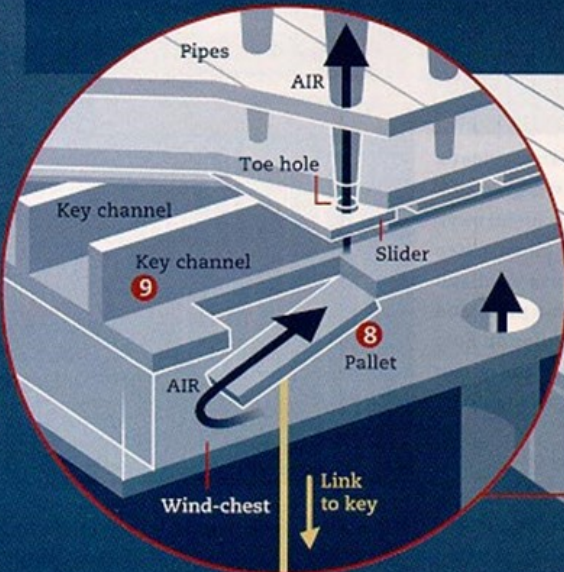
Here is the console of a Lynn Dobson tracker organ in Augusta, Ga. Notice the console is not built directly into the casework and pipes. In this instance, the trackers connect to the pipes from the rear of the console, under the floor.

Tuning wire  
 Reed tongue  
 Shallot  
 REED PIPE  
 Toe hole

Upper lip  
 Mouth  
 Lower lip  
 FLUE PIPE  
 Toe hole

**THE PIPES**  
 Large organs have thousands of pipes ranging in length from a few inches to more than 30 feet.

The smallest      The largest



**HOW A MECHANICAL PIPE ORGAN WORKS**

A blower **1** pushes air through a regulating valve into a reservoir **2**. From there the air travels up the wind-trunk **3** into an airtight box, the wind-chest **4**. A row of pipes is controlled by a stop knob **5**. As the knob is pulled out, a wooden slat called a slider **6** is moved, and holes in the slider line up with the pipes. Now these pipes can be played. When the organist depresses a key **7**, a pallet **8** opens, and air enters a key channel **9**. All the pipes on that channel (whose stops have been opened) will sound.

