

# SALT LAKE TABERNACLE ORGAN

The Church of Jesus Christ of Latter-day Saints

Salt Lake City, Utah, USA

Æolian-Skinner, Opus 1075 — 1948

Five-manual and pedal detached console; Electro-pneumatic key and stop action

147 voices, 206 ranks, 11,623 pipes

The original organ in the Salt Lake Tabernacle was built by Joseph Ridges in 1867 with 2 manuals. It was rebuilt and enlarged by Niels Johnson (1889), Kimball Organ Company (1901), and Austin Organ Company (1916, 1926, 1937). A contract for a new organ was signed with the Æolian-Skinner Organ Company of Boston in 1945. At the time, G. Donald Harrison was company president and tonal director. Some pipework from earlier organs was retained, but the organ installed was essentially new. Further additions were made during renovations in 1979 and 1984-88. These were mostly stops which Harrison intended to install but which were omitted for various reasons. The instrument is recognized by many as a quintessential example of the American Classic style of organ building, an eclectic approach championed and brought to its zenith by G. Donald Harrison.

## Great Manual II

29 voices, 44 ranks, 2,564 pipes

Wind pressures 3½", 3⅞", 4⅞", 4⅞"

(89, 98, 116, 124 mm.)

16'	Subprincipal	61 pipes
16'	Quintaten	61 pipes
8'	Principal	61 pipes
8'	Diapason	61 pipes
8'	Montre*	61 pipes
8'	Bourdon	61 pipes
8'	Spitzflöte	61 pipes
8'	Flûte Harmonique*	61 pipes
8'	Bell Gamba	61 pipes
5½'	Grosse Quinte	61 pipes
4'	Principal	61 pipes
4'	Octave	61 pipes
4'	Koppelflöte	61 pipes
4'	Flûte Octaviant*	61 pipes
4'	Gemshorn	61 pipes
3½'	Grosse Tierce	61 pipes
2½'	Quinte	61 pipes
2'	Super Octave	61 pipes
2'	Blockflöte	61 pipes
1¾'	Tierce	61 pipes
1¼'	Septième	61 pipes
2½'	Full Mixture IV	244 pipes
2'	Fourniture IV	244 pipes
1½'	Kleine Mixtur IV	244 pipes
1'	Acuta III	183 pipes
8'	Cornet V* (f-f <sup>3</sup> )	185 pipes
16'	Double Trumpet*	61 pipes
8'	Trumpet*	61 pipes
4'	Clarion*	61 pipes

Positiv on Great

† Celeste stops marked with a dagger draw the celeste rank as well as the straight rank, and include a "II" on the stopknob

## Swell (enclosed) Manual III

29 voices, 40 ranks, 2,561 pipes

Wind pressures 4¼", 4⅞"

(108, 124 mm.)

16'	Lieblich Gedeckt**	68 pipes
16'	Gemshorn	68 pipes
8'	Geigen Principal	68 pipes
8'	Gedeckt	68 pipes
8'	Claribel Flute**	68 pipes
8'	Flauto Dolce	68 pipes
8'	Flute Celeste (TC) †	56 pipes
8'	Viole de Gambe	68 pipes
8'	Viole Céleste †	68 pipes
8'	Orchestral Strings II	136 pipes
8'	Salicional	68 pipes
8'	Voix Céleste †	68 pipes
4'	Prestant	68 pipes
4'	Fugara	68 pipes
4'	Flauto Traverso	61 pipes
2½'	Nazard	61 pipes
2'	Octavin	61 pipes
2'	Hohlflöte*	68 pipes
2½'	Cornet III	183 pipes
2½'	Plein Jeu VI	366 pipes
1½'	Plein Jeu IV*	
	(from Plein Jeu VI)	
¾'	Cymbale IV	244 pipes
32'	Contra Fagot	61 pipes
16'	Contre Trompette	61 pipes
8'	1ère Trompette*	68 pipes
8'	2ème Trompette	61 pipes
8'	Hautbois	68 pipes
8'	Voix Humaine	68 pipes
	(5"/127 mm. wind)	
5½'	Quinte Trompette	61 pipes
4'	Clairon	61 pipes

Tremulant  
Swell to Swell 16'  
Swell to Swell 4' (only affects stops with top octave extensions)

## Positiv Manual I

16 voices, 21 ranks, 1,257 pipes

Wind pressure 2⅝" (67 mm.)

8'	Principal*	61 pipes
8'	Cor de Nuit	61 pipes
8'	Quintade	61 pipes
4'	Principal	61 pipes
4'	Nachthorn	61 pipes
2⅞'	Nazard	61 pipes
2'	Principal	61 pipes
2'	Spillflöte	61 pipes
1¾'	Tierce	61 pipes
1½'	Larigot	61 pipes
1'	Siffelöte	61 pipes
1¼'	Septerz II	98 pipes
1'	Scharf III	183 pipes
½'	Zimbel III	183 pipes
16'	Rankett	61 pipes
8'	Cromorne*	61 pipes

Tremulant

## Choir (enclosed) Manual I

18 voices, 24 ranks, 1,536 pipes

Wind pressure 4¾" (121 mm.)

16'	Gamba	68 pipes
8'	Principal	68 pipes
8'	Concert Flute	68 pipes
8'	Viola	68 pipes
8'	Viola Celeste †	68 pipes
8'	Dulcet II	136 pipes
8'	Kleine Erzähler II	124 pipes
4'	Prestant	68 pipes
4'	Zauberflöte	68 pipes
4'	Gambette	68 pipes
2'	Piccolo Harmonique	61 pipes
2½'	Carillon III	183 pipes
2½'	Sesquialtera II* (from Carillon)	
1'	Fife* (from Carillon)	
2'	Rauschpfeife III	183 pipes

\*Added as part of renovation project, 1986-88

\*\*Retained from earlier Tabernacle organs

\*\*\*Added in 1979

thetabernaclechoir.org/organs

Salt Lake Tabernacle Organ  
Organ Specification (23 August 2019)

Page 1 of 3

16' Dulzian .....61 pipes  
 8' Trompette .....61 pipes  
 8' Krummhorn .....61 pipes  
 8' Orchestral Oboe .....61 pipes  
 4' Rohr Schalmel .....61 pipes  
 8' Trompette Harmonique\*  
 (Bombarde)  
 Tremulant  
 Positiv off Choir\*  
 Choir to Choir 16'  
 Choir to Choir 4' (only affects  
 stops with top octave extensions)

### Bombarde Manual IV

8 voices, 18 ranks, 1,038 pipes  
 Wind pressure 6 $\frac{1}{8}$ " (156 mm.)

8' Diapason.....61 pipes  
 4' Octave .....61 pipes  
 2 $\frac{2}{3}$ ' Grosse Cornet IV-VI....306 pipes  
 2 $\frac{2}{3}$ ' Grande Fourniture VI...366 pipes  
 16' Bombarde .....61 pipes  
 8' Trompette Harmonique\* 61 pipes  
 (12"/305 mm. wind)  
 8' Trompette .....61 pipes  
 4' Clairon.....61 pipes

### Solo (enclosed) Manual IV

11 voices, 11 ranks, 727 pipes  
 Wind pressure 9 $\frac{5}{16}$ " (237 mm.)

8' Flauto Mirabilis .....68 pipes  
 8' Gamba .....68 pipes  
 8' Gamba Céleste † .....68 pipes  
 4' Concert Flute.....68 pipes  
 2 $\frac{2}{3}$ ' Nazard\*\*\* .....61 pipes  
 2' Piccolo\*\*\* .....61 pipes  
 1 $\frac{3}{5}$ ' Tierce\*\*\* .....61 pipes  
 8' French Horn .....68 pipes  
 8' English Horn .....68 pipes  
 8' Corno di Bassetto .....68 pipes  
 8' Tuba .....68 pipes  
 (11 $\frac{1}{2}$ "/92 mm. wind)  
 8' Cornet V (Great)  
 Chimes (c-g<sup>2</sup> amplified) .32 tubes  
 8' Harp (c-c<sup>4</sup> amplified).....49 bars  
 4' Celesta (from harp) .....61 notes  
 Tremulant  
 Positiv on Solo\*  
 Solo-Bombarde to  
 Solo-Bombarde 16'  
 Solo-Bombarde to  
 Solo-Bombarde 4'  
 (affects all stops)

### Antiphonal (enclosed) Manual V

9 voices, 11 ranks, 720 pipes  
 Wind pressure 4 $\frac{3}{8}$ " (111 mm.)

8' Diapason .....68 pipes  
 8' Gedeckt\*\* .....68 pipes  
 8' Salicional .....68 pipes  
 8' Voix Céleste † .....68 pipes  
 4' Principal .....68 pipes  
 2' Kleine Mixtur III.....183 pipes  
 8' Trompette.....68 pipes  
 8' Vox Humana .....68 pipes  
 8' Tuba Mirabilis\*.....61 pipes  
 (Front case; 15"/381 mm. wind)  
 8' Cornet V\* (Great)  
 Tremulant  
 Antiphonal to  
 Antiphonal 16\*  
 Antiphonal to  
 Antiphonal 4'  
 (affects all stops)

### Pedal

27 voices, 37 ranks, 1,220 pipes  
 Wind pressures 3 $\frac{3}{8}$ ", 4 $\frac{5}{16}$ ", 4 $\frac{1}{2}$ ", 4 $\frac{5}{8}$ ",  
 6 $\frac{3}{16}$ ", 7"  
 (86, 110, 114, 117, 157, 178 mm.)

32' Montre\*\* .....12 pipes  
 (ext. of Great Subprincipal)  
 32' Flûte Ouverte\*\* .....12 pipes  
 32' Contre Bourdon\*\* .....12 pipes  
 16' Contre Basse .....32 pipes  
 16' Principal .....32 pipes  
 16' Flûte Ouverte .....32 pipes  
 16' Violone .....32 pipes  
 16' Bourdon .....32 pipes  
 16' Gemshorn (Swell)  
 16' Gamba (Choir)  
 16' Lieblich Gedeckt (Swell)  
 10 $\frac{2}{3}$ ' Grosse Quinte .....32 pipes  
 8' Principal .....32 pipes  
 8' Violoncello.....32 pipes  
 8' Spitzprincipal .....32 pipes  
 8' Flûte Ouverte .....32 pipes  
 8' Flauto Dolce.....32 pipes  
 8' Gamba (Choir)  
 8' Lieblich Gedeckt (Swell)  
 5 $\frac{1}{3}$ ' Quinte .....32 pipes  
 4' Choral Bass .....32 pipes  
 4' Nachthorn .....32 pipes  
 4' Gamba (Choir)  
 4' Lieblich Gedeckt (Swell)  
 2' Principal .....32 pipes  
 2' Blockflöte .....32 pipes  
 10 $\frac{2}{3}$ ' Grand Harmonics V .....160 pipes  
 4' Full Mixture IV .....128 pipes

1' Cymbale IV .....128 pipes  
 32' Bombarde .....32 pipes  
 32' Contra Fagot (Swell)  
 16' Ophicleide.....32 pipes  
 16' Trombone .....32 pipes  
 16' Double Trumpet\* (Great)  
 16' Contre Trompette\* (Swell)  
 16' Dulzian (Choir)  
 8' Posaune.....32 pipes  
 8' Trumpet .....32 pipes  
 8' Double Trumpet\* (Great)  
 8' Contre Trompette\* (Swell)  
 8' Krummhorn (Choir)  
 4' Clairon .....32 pipes  
 4' Chalumeau.....32 pipes  
 2' Kornett .....32 pipes

### Percussion

Chimes on Great  
 Chimes on Pedal  
 Harp on Choir  
 Celesta on Choir

### Pedal Couplers

Great to Pedal 8'  
 Swell to Pedal 8'  
 Swell to Pedal 4'  
 (affects all stops)  
 Choir to Pedal 8'  
 Positiv to Pedal 8'  
 Solo-Bombarde to Pedal 8'  
 Solo-Bombarde to Pedal 4'  
 (affects all stops)  
 Antiphonal to Pedal 8'

### Intermanual Couplers

Swell to Great 8'  
 Swell to Great 4' (only affects  
 stops with top octave extensions)  
 Choir to Great 8'  
 Choir to Great 4' (only affects  
 stops with top octave extensions)  
 Solo-Bombarde to Great 16'  
 Solo-Bombarde to Great 8'  
 Solo-Bombarde to Great 4'  
 (affects all stops)  
 Antiphonal to Great 8'  
 Swell to Choir 8'  
 Swell to Choir 4' (only affects  
 stops with top octave extensions)  
 Solo-Bombarde to Choir 8'  
 Antiphonal to Choir 8'\*  
 Antiphonal to Solo 8'\*  
 Great Tutti to Solo  
 Pedal Tutti to Swell

\*Added as part of renovation project, 1986-88

\*\*Retained from earlier Tabernacle organs

\*\*\*Added in 1979

## Combinations (256 memories - 2007)

General.....0, 1-20  
1-5, 11-15 duplicated by toe studs  
1-3, 5-7 and 13-15 duplicated on  
right side of manuals\*  
Great .....0, 1-8  
Swell .....0, 1-8  
Choir .....0, 1-8  
Positiv\* .....0, 1-6  
Solo-Bombarde .....0, 1-8  
Antiphonal .....0, 1-4  
Pedal .....0, 1-8  
6-8 duplicated on thumb pistons  
under Manual I\*

## Reversibles

Each manual to Pedal 8' coupler (thumb)  
Great to Pedal (toe)  
Swell to Pedal (toe)  
Solo-Bombarde to Great (toe)  
32' Bombarde (toe)  
32' Flûte Ouverte (toe)\*  
32' Contra Fagot (toe)\*  
32' Contre Bourdon (toe)  
Choir shades to  
Swell expression pedal (thumb)  
Manual I/II (thumb)  
with indicator lights\*  
Sforzando (thumb\* & toe) with  
indicator lights (sforzando may be  
set independently for each memory)

## Mechanicals

Swell expression pedal  
Choir expression pedal  
Solo expression pedal  
Antiphonal expression pedal  
Crescendo pedal  
(4 sequences:  
Standard, A, B, and C;  
A, B, and C adjustable  
from console)\*  
30-segment LED Crescendo  
Pedal indicator\*  
Tremulants, celestes, and percussion  
may be programmed to cancel with  
crescendo pedal\*  
Crescendo and Sforzando blind check\*  
Chime dampers on/off  
Harp dampers on/off  
Percussion routing selectors  
(1, 2, and 3) (2007)  
Percussion instrument selector (2007)  
Percussion volume (2007)

## Accessories

Combination set  
Memory lock\*  
Memory selector\*  
Memory clear\*  
SSL Total Recall system (2007)  
with USB port  
MIDI In/Out/Thru jacks (2007)  
Yamaha MDF MIDI recorder

## Digital clock\*

Clock mode selector  
Stop/Start, Reset buttons  
Clock synchronized to WWVB  
"Stand by" and "On air" signals\*  
Broadcast timer\*  
Console fan on/off \*  
Intercom\*  
Monitor\*  
Nauvoo Bell button  
(historic bell located outside  
the Tabernacle)

## Case

Builders:  
Joseph Ridges (1867)  
Cannon and Fetzer (1916)  
Materials: Pine

## Relay

Solid state\*

## Tuning

Equal temperament; A=440 Hz at 74° F

## Blowers

Main: 30 h.p.  
Auxiliary Pedal: 3 h.p.\*  
Antiphonal: ¾ h.p.

## General Bibliography

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The Tabernacle Choir at Temple Square is an ambassador for The Church of Jesus Christ of Latter-day Saints.

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