

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
1½'	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-f³)	185 pipes
16'	Double Trumpet*	61 pipes
8'	Trumpet*	61 pipes
4'	Clarion*	61 pipes
I/II Manual Transfer (settable)++		

† 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
2½'	Nazard	61 pipes
2'	Principal	61 pipes
2'	Spillflöte	61 pipes
1¾'	Tierce	61 pipes
1½'	Larigot	61 pipes
1'	Sifflöte	61 pipes
1½'	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 ++Added in 2021

thetabernaclechoir.org/organs

Salt Lake Tabernacle Organ
Organ Specification (18 April 2024)

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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 Fourmiture 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 ² amplified) .	32 tubes
8'	Harp (c-c ⁴ amplified).....	49 bars
4'	Celesta (from harp)	61 notes
	Tremulant	
	Positiv on Solo*	
	Solo-Bombarde to Solo-Bombarde 16'	
	Solo-Bombarde Unison Off++	
	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
Tower 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 16'+++
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)
Positiv to Great 8'+++
Solo-Bombarde to Great 16'
Solo-Bombarde to Great 8'
Solo-Bombarde to Great 4'
Antiphonal to Great 8'
Swell to Choir 16'+++
Swell to Choir 8'
Swell to Choir 4' (only affects
stops with top octave extensions)
Solo-Bombarde to Choir 8'
Antiphonal to Choir 8'*
Positiv to Solo 8'+++
Antiphonal to Solo 8'*
Great Tutti to Solo
Pedal Tutti to Swell

*Added as part of renovation project, 1986-88

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Combinations (256 memories - 2007)

General..... 0, 1-24
1-4, 13-16 duplicated by toe studs
Great 1-8
Swell 1-8
Choir 1-8
Positiv* 1-6
Solo-Bombarde 1-8
Antiphonal 1-4
Pedal 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 user)

Mechanicals

Swell expression pedal
Choir expression pedal
Solo expression pedal
Antiphonal expression pedal
Crescendo pedal
(4 sequences per user, all
adjustable from console)++
30-segment LED Crescendo
Pedal indicator*
Tremulants, celestes, and percussion
may be programmed to cancel with
crescendo pedal*
Harp dampers on/off
“Next” piston sequencer controls
(8 thumb pistons; 2 toe studs)++
“Previous” piston sequencer controls
(2 thumb pistons; 1 toe stud)++
Swell Voix Humaine Tremulant
Off++

Accessories

Combination set
Memory lock*
Memory selector*
Range set++
IOTI Virtuoso control system
with USB port (2021)
MIDI In/Out/Thru jacks (2007)

Digital clock*

Clock mode selector
Stop/Start, Reset buttons
Clock synchronized to WWVB
Broadcast timer*
Console fan on/off *

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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