

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
2⅔'	Quinte	61 pipes
2'	Super Octave	61 pipes
2'	Blockflöte	61 pipes
1⅜'	Tierce	61 pipes
1⅞'	Septième	61 pipes
2⅔'	Full Mixture IV	244 pipes
2'	Fourniture IV	244 pipes
1⅜'	Klein Mixtur IV	244 pipes
1'	Acuta III	183 pipes
8'	Cornet V* (f-f ³)	185 pipes
16'	Double Trumpet*	61 pipes
8'	Trumpet*	61 pipes
4'	Clarion*	61 pipes

Positiv on Great

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
2⅔'	Nazard	61 pipes
2'	Octavin	61 pipes
2'	Hohlflöte*	68 pipes
2⅔'	Cornet III	183 pipes
2⅔'	Plein Jeu VI	366 pipes
1⅜'	Plein Jeu IV*	
	(from Plein Jeu VI)	
⅔'	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
2⅔'	Nazard	61 pipes
2'	Principal	61 pipes
2'	Spillflöte	61 pipes
1⅜'	Tierce	61 pipes
1⅜'	Larigot	61 pipes
1'	Siffelöte	61 pipes
1⅞'	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
2⅔'	Carillon III	183 pipes
2⅔'	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

16' Dulzian61 pipes
 8' Trompette61 pipes
 8' Krummhorn61 pipes
 8' Orchestral Oboe61 pipes
 4' Rohr Schalmel61 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' Octave61 pipes
 2 $\frac{2}{3}$ ' Grosse Cornet IV-VI....306 pipes
 2 $\frac{2}{3}$ ' Grande Fourniture VI...366 pipes
 16' Bombarde61 pipes
 8' Trompette Harmonique* 61 pipes
 (12"/305 mm. wind)
 8' Trompette61 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 Mirabilis68 pipes
 8' Gamba68 pipes
 8' Gamba Céleste68 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 Horn68 pipes
 8' English Horn68 pipes
 8' Corno di Bassetto68 pipes
 8' Tuba68 pipes
 (11 $\frac{1}{2}$ "/92 mm. wind)
 8' Cornet V (Great)
 Chimes (c-g² amplified) .32 tubes
 8' Harp (c-c⁴ 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' Diapason68 pipes
 8' Gedeckt**68 pipes
 8' Salicional68 pipes
 8' Voix Céleste.....68 pipes
 4' Principal68 pipes
 2' Kleine Mixtur III.....183 pipes
 8' Trompette.....68 pipes
 8' Vox Humana68 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 Basse32 pipes
 16' Principal32 pipes
 16' Flûte Ouverte32 pipes
 16' Violone32 pipes
 16' Bourdon32 pipes
 16' Gemshorn (Swell)
 16' Gamba (Choir)
 16' Lieblich Gedeckt (Swell)
 10 $\frac{2}{3}$ ' Grosse Quinte32 pipes
 8' Principal32 pipes
 8' Violoncello.....32 pipes
 8' Spitzprincipal32 pipes
 8' Flûte Ouverte32 pipes
 8' Flauto Dolce.....32 pipes
 8' Gamba (Choir)
 8' Lieblich Gedeckt (Swell)
 5 $\frac{1}{3}$ ' Quinte32 pipes
 4' Choral Bass32 pipes
 4' Nachthorn32 pipes
 4' Gamba (Choir)
 4' Lieblich Gedeckt (Swell)
 2' Principal32 pipes
 2' Blockflöte32 pipes
 10 $\frac{2}{3}$ ' Grand Harmonics V160 pipes
 4' Full Mixture IV128 pipes

1' Cymbale IV128 pipes
 32' Bombarde32 pipes
 32' Contra Fagot (Swell)
 16' Ophicleide.....32 pipes
 16' Trombone32 pipes
 16' Double Trumpet* (Great)
 16' Contre Trompette* (Swell)
 16' Dulzian (Choir)
 8' Posaune.....32 pipes
 8' Trumpet32 pipes
 8' Double Trumpet* (Great)
 8' Contre Trompette* (Swell)
 8' Krummhorn (Choir)
 4' Clairon32 pipes
 4' Chalumeau.....32 pipes
 2' Kornett32 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

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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*
Great0, 1-8
Swell0, 1-8
Choir0, 1-8
Positiv*0, 1-6
Solo-Bombarde0, 1-8
Antiphonal0, 1-4
Pedal0, 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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Mormon Tabernacle Choir is an ambassador for The Church of Jesus Christ of Latter-day Saints.

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