

# FIRST CHORDS

Celebrating the return of the Cathedral Organ

St Peter's Cathedral Advent Sunday 6:00pm 2 December 2018



Since the foundation stone was laid 150 years ago, St Peter's Cathedral has been a living example of the vision and creative spirit of the City of Adelaide: an iconic landmark featuring inspirational architecture, theology, art, music and people.

It is fitting that the 'First Chords' of our magnificent and newly restored organ should herald the beginning of our **Festival 150** celebrations. Join our exciting festival program in 2019, as we celebrate the past and focus on imagining and creating a vibrant, caring future for us all.

Pauline Brooks OAM

Officiant: The Very Reverend Frank NelsonCanon Precentor: The Reverend Canon Jenny WilsonChoirs: The St Peter's Cathedral Choirs

Director of Music: Leonie Hempton OAM

Cathedral Organist: David Heah

Adelaide Bellringers: Matthew Ball (Tower Captain)

Photographer: Chris Oaten



St Peter's Cathedral strives to be a Christ-centred, sacramental, inclusive, thinking, mission-oriented, faith community. The Cathedral resides on the lands of the Kaurna people whom we acknowledge as the original custodians of the Adelaide Region.

#### WELCOME FROM THE DEAN

Tonight's service marks the end of a very long process which began in 2009 when the Cathedral Council invited four organ building companies (one each from Australia and New Zealand, and two from England) to visit St Peter's Cathedral, assess the state of the Cathedral Organ and tender for work to be done. For the past eighteen months the Cathedral Organ has been in the care of Harrison & Harrison Ltd of Durham, UK.

It has been deeply gratifying to see the way the Cathedral community has got in behind the project, with support from the wider church and civic music-loving communities. Thank you one and all – for your generosity in giving, your great patience as the Cathedral and our sacred worship space has been turned into a noisy, dusty, work-site, and for your shared and growing excitement as the project moved forward.

Tonight, for the first time, we hear the results of all that hard work. What a wonderful celebration of our shared commitment to this project.

Our praise and thanksgiving is directed to God, joining the great heavenly host as we sing: "Let everything that has breath, praise the Lord!"

The Very Reverend Frank Nelson, Dean of St Peter's Cathedral

## Before the service

Organ music •

- Johann Sebastian Bach
  Wachet auf, ruft uns die Stimme BWV 645
- Edward Bairstow Prelude on Veni Emmanuel, No 3 from 3 Short Preludes
- Jehan Alain *Litanies, JA* 119

5.56pm The Premier arrives

5.58 pm The handbell rings

Please stand for the arrival of His Excellency

The Honourable Hieu Van Le AC, Governor of South Australia, and Mrs Lan Le

Please remain standing for The Vice-Regal Salute

Please sit

## The choir sings

O Emmanuel, Rex et Legifer noster, expectatio gentium et Salvator earum: Veni, veni, ad salvandum nos Domine Deus noster. O Emmanuel, our King and Lawgiver, hope of the nations and their saviour: come, come and save us, O Lord our God.

*Words:* The Great O Antiphons

Music: Bob Chilcott

The Dean welcomes the congregation

Please remain seated as the choir sings verses 1-3

- 1. O come, O come, Emmanuel, and ransom captive Israel, that mourns in lonely exile here until the Son of God appear: Rejoice! Rejoice! Emmanuel shall come to thee, O Israel.
- 2. O come, thou Rod of Jesse, free thine own from Satan's tyranny; from depths of hell thy people save, and give them victory o'er the grave: Rejoice! Rejoice! Emmanuel shall come to thee, O Israel.
- 3. O come, thou Dayspring, come and cheer our spirits by thine advent here; disperse the gloomy clouds of night and death's dark shadows put to flight: Rejoice! Rejoice! Emmanuel shall come to thee, O Israel.

Congregation please stand to sing verses 4 & 5

- 4. O come, O come, thou Lord of Might, who to thy tribes, on Sinai's height, in ancient times didst give the law in cloud and majesty and awe: Rejoice! Rejoice! Emmanuel shall come to thee, O Israel.
- 5. O come, thou Key of David, come, and open wide our heavenly home; make safe the way that leads on high, and close the path to misery: Rejoice! Rejoice! Emmanuel shall come to thee, O Israel.

Words: translated John M Neale

Music: arr. John Rutter

Please be seated

The Dean comments on the Organ Restoration and its significance for St Peter's Cathedral

#### The choir sings

I was glad when they said unto me,

We will go into the house of the Lord.

Our feet shall stand in thy gates, O Jerusalem.

Jerusalem is builded as a city that is at unity in itself.

O pray for the peace of Jerusalem, they shall prosper that love thee.

Peace be within thy walls, and plenteousness within thy palaces.

Words: Psalm 122

Music: C Hubert H Parry

First reading: Isaiah 40: 1 – 11

Read by Carol Sim - Organ Project Manager

Comfort, O comfort my people, says your God. Speak tenderly to Jerusalem, and cry to her that she has served her term, that her penalty is paid, that she has received from the Lord's hand double for all her sins.

A voice cries out:

'In the wilderness prepare the way of the Lord,

make straight in the desert a highway for our God.

Every valley shall be lifted up, and every mountain and hill be made low; the uneven ground shall become level, and the rough places a plain.

Then the glory of the Lord shall be revealed,

and all people shall see it together, for the mouth of the Lord has spoken.'

A voice says, 'Cry out!' And I said, 'What shall I cry?'

All people are grass, their constancy is like the flower of the field.

The grass withers, the flower fades, when the breath of the Lord blows upon it; surely the people are grass.

The grass withers, the flower fades; but the word of our God will stand for ever.

Get you up to a high mountain, O Zion, herald of good tidings;

lift up your voice with strength, O Jerusalem, herald of good tidings,

lift it up, do not fear; say to the cities of Judah, 'Here is your God!'

See, the Lord God comes with might, and his arm rules for him;

his reward is with him, and his recompense before him.

He will feed his flock like a shepherd; he will gather the lambs in his arms, and carry them in his bosom, and gently lead the mother sheep.

Hear the Word of the Lord

#### Thanks be to God

## The Choir sings

O be joyful in the Lord, all ye lands:

Serve the Lord with gladness, and come before his presence with a song.

Be ye sure that the Lord he is God:

It is he that hath made us, and not we ourselves;

We are his people, and the sheep of his pasture.

O go your way into his gates with thanksgiving,

and into his courts with praise:
be thankful unto him, and speak good of his Name.
For the Lord is gracious, his mercy is everlasting:
and his truth endureth from generation to generation.
Glory be to the Father, and to the Son: and to the Holy Ghost;
As it was in the beginning, is now, and ever shall be: world without end. Amen.

Words: Psalm 100 (Jubilate) Music: Herbert Howells

*Second Reading: Philippians* 4: 4 – 9

Read by Dr Richard Sawers AM - Chair of Organ Fund-raising Task Force

Rejoice in the Lord always; again I will say, Rejoice. Let your gentleness be known to everyone. The Lord is near. Do not worry about anything, but in everything by prayer and supplication with thanksgiving let your requests be made known to God. And the peace of God, which surpasses all understanding, will guard your hearts and your minds in Christ Jesus.

Finally, beloved, whatever is true, whatever is honourable, whatever is just, whatever is pure, whatever is pleasing, whatever is commendable, if there is any excellence and if there is anything worthy of praise, think about these things. Keep on doing the things that you have learned and received and heard and seen in me, and the God of peace will be with you.

Hear the Word of the Lord

Thanks be to God

## Please stand to sing the hymn

- 1. O praise ye the Lord! Praise him in the height; rejoice in his word, ye angels of light; ye heavens adore him by whom ye were made, and worship before him, in brightness arrayed.
- 2. O praise ye the Lord! Praise him upon earth, in tuneful accord, ye sons of new birth; praise him who hath brought you his grace from above, praise him who hath taught you to sing of his love.
- 3. O praise ye the Lord, all things that give sound; each jubilant chord re-echo around; loud organs, his glory forth tell in deep tone, and, sweet harp, the story of what he hath done.
- 4. O praise ye the Lord! Thanksgiving and song to him be outpoured all ages along: for love in creation, for heaven restored, for grace of salvation, O praise ye the Lord! Amen, amen.

Words: HW Baker

Music: C Hubert H Parry

Please sit

Organ Solo: Simon Preston - Alleluyas

Please remain seated for the Blessing and Dedication of the Organ

The Churchwardens present the fully restored Cathedral Organ to the Dean and Congregation

We present to you the Cathedral Organ to be played to the Glory of God, to lead worship and to promote the mission of St Peter's Cathedral to Church, City and State.

## The Choir sings

O praise God in his holiness:

praise him in the firmament of his power.

Praise him in his noble acts:

praise him according to his excellent greatness.

Praise him in the sound of the trumpet:

praise him upon the lute and harp.

Praise him in the cymbals and dances:

praise him upon the strings and pipe.

Praise him upon the well-tuned cymbals:

praise him upon the loud cymbals.

Let everything that hath breath: praise the Lord.

Words: Psalm 150 Music: George Talbot

Please stand for a moment of silent prayer before joining the Canon Precentor in praying

O Lord, before whose throne trumpets sound, and saints and angels sing your praise: Accept this instrument which we offer to your glory

and for worship in this Cathodral

and for worship in this Cathedral,

that with the voice of music we may proclaim your name and tell it abroad.

Grant that in this generation and in those to come,

its voice may continually call your people to praise and worship; through Jesus Christ our Lord. Amen.

The Dean blesses the organ

We bless this Cathedral Organ in the name of the Father, and of the Son, and of the Holy Spirit. **Amen.** 

The congregation is encouraged to respond with enthusiastic applause!

#### Please stand to sing

And did those feet in ancient time, walk upon England's mountains green? And was the holy Lamb of God, on England's pleasant pastures seen? And did the countenance divine, shine forth upon our clouded hills? And was Jerusalem builded here, among these dark satanic mills?

Bring me my bow of burning gold! Bring me my arrows of desire! Bring me my spear! O clouds, unfold! Bring me my chariot of fire! I will not cease from mental fight, nor shall my sword sleep in my hand, Till we have built Jerusalem in England's green & pleasant land

> Words: William Blake Music: C Hubert H Parry

*Please sit for the presentations* 

Pauline Brooks OAM, Festival Coordinator, introduces FESTIVAL 150

The Canon Precentor leads the congregation in praying the Festival 150 prayer

#### God of all time:

Amen

Alpha and Omega, beginning and end. We praise and thank you for what has been, what is and what is to be. In this year of celebration we give you thanks for those who have gone before us in faith, courage and generosity. Give us imagination, purpose and grace

to step into the future with you,

our Creator, Redeemer, and Life-giver.



#### *Please sit as the choir sings:*

We wait for thy loving kindness, O God: in the midst of thy temple. Alleluya.

O God, according to thy Name, so is thy praise unto the world's end.

Thy right hand is full of righteousness: Alleluya.

We wait for thy loving kindness, O God: in the midst of thy temple.

O Lord send us now prosperity. Amen.

Words: Psalm 48: 9-11 Music: William McKie

## Please stand to sing the Offertory Hymn

Your gift will go towards having the organ debt free by Christmas

- 1. Lo, he comes with clouds descending, once for favoured sinners slain; thousand thousand saints attending swell the triumph of his train: Alleluia! (x3)
  - God appears, on earth to reign.
- 2. Every eye shall now behold him robed in dreadful majesty; those who set at naught and sold him, pierced and nailed him to the Tree, deeply wailing (x3) shall the true Messiah see.
- 3. Those dear tokens of his passion still his dazzling body bears, cause of endless exultation to his ransomed worshippers: with what rapture (x3) gaze we on those glorious scars!
- 4. Yea, Amen, let all adore thee, high on thine eternal throne; Saviour, take the power and glory: claim the kingdom for thine own: O come quickly! (x3) Alleluia! Come, Lord, come!

Words: Charles Wesley, John Cennick Music: 18thC v.4 arr. David Willcocks

## Please remain standing for the Advent Blessing

Christ the sun of righteousness shine upon you and scatter the darkness from before your path: and the blessing of God, Creator, Redeemer and Giver of life be with you always. Amen.

## Recessional organ voluntary

Louis Vierne - Carillon de Westminster, Op. 54 No. 6 from 24 Pièces de Fantaisie pour orgue

# Please join us for a reception in the Memorial Garden

#### **MESSAGES**

#### His Excellency the Honourable Hieu Van Le AC, Governor of South Australia.

St Peter's Cathedral holds a special place in the heart of all South Australians. It is undoubtedly a place of rare beauty, a sacred space. A grand venue for significant occasions such as State funerals and Royal Visits, yet an inclusive space open every day for anyone to experience its grand architecture and calming peace.

Over the years my wife and I have been very pleased to enjoy the wonderful music of the Cathedral, including its choir and its beautiful organ. The organ provides a special majesty to the spiritual ambience of this special place of worship and contemplation. It is often said that music feeds the soul and draws people together. We celebrate the return of the Cathedral Organ and look forward to being uplifted by its beautiful tones. I am pleased to celebrate its return and commend the generous spirit of the congregation in enabling its refurbishment.

#### The Honourable Steven Marshall MP, Premier of South Australia

I am pleased to congratulate the Anglican Diocese of Adelaide and all involved in the Cathedral's Festival 150 initiative on the successful restoration of the Cathedral's magnificent organ.

St Peter's Cathedral is a true South Australian icon, a key part of our community, heritage and identity.

It is also the jewel in the crown of Adelaide's Riverbank, which the Government is transforming into a place that inspires, brings people together, and fosters collaboration – just like the Cathedral has done for almost 150 years now. I am delighted that, starting tonight, the Cathedral's organ will once again lend its voice to these efforts, serving those of faith and those of none alike.

On behalf of the Government of South Australia, congratulations on this important milestone. We look forward to continuing to work together to build a South Australia of inspiration, collaboration and harmony.

"Unless the Lord builds the house, those who build it labour in vain." Psalm 127:1

## The Right Honourable The Lord Mayor of Adelaide, Sandy Verschoor

Congratulations to the St. Peter's Cathedral on completing the recent restoration of their iconic Organ.

Council is proud to have contributed to the overall project, having made a grant to the Cathedral which went towards re-slating of the roof immediately above the organ. The beautiful sandstone Cathedral has been a significant city landmark for 150 years, is an icon at the northern entrance to the city, and a spiritual home for many thousands of Adelaide's Anglican worshipers.

These restoration works are vital to the preservation of our City's cultural heritage and I congratulate everyone who was involved in the project.

## The Most Reverend Geoffrey Smith, Archbishop of Adelaide

St Peter's Cathedral is not only an iconic part of the city of Adelaide, it is also the Cathedra (the seat) of the Bishop of Adelaide and therefore has a central place in the life and ministry of the Diocese of Adelaide and in fact the whole of the Anglican church in South Australia. The Cathedral is the prime gathering place for the people of the Diocese when they meet for worship and is the location for our most important events. Given this, the refurbishment of the organ and the place it will occupy as we come together, is critically important. I give thanks for the leadership of the Cathedral congregation, the support of the wider community and the people of the Diocese which has led to the completion of this project.

#### Stephen Watkins, Patron St Peter's Cathedral Music Foundation

The Music Foundation is the engine room of the Cathedral's music and the bellows behind the Organ Restoration project. Cecilia, music's patron, glowingly unveiled by the organ's absence, now too comes back to life with lighting. Did Cecilia play the organ on her wedding night, as some suggest? Let's pretend she did. The Cathedral's stones can sing again too. Organs are meant for the spaces they inhabit, and that's so true at St Peter's. Listen to what they sing. Jesus said if the people stop praising, the stones will sing. And the prophet Habakkuk was told that the stones of the walls would cry out for justice and the beams of the woodwork would echo it. Let the organ play.

## Carol Sim, Project Manager Organ Restoration

The realisation of the restoration of the Organ to support the ministry of the Cathedral within the Diocese of Adelaide is meaningful and significant, not only to the Cathedral congregation but also to the wider Adelaide community. As part of this community, I have been privileged to take on the responsibility of guiding this organ restoration project to completion. Long may the glorious voice of the Cathedral Organ sound through this sacred space in praise and glory to God.

## Dr Rick Sawers AM, Chair Organ Restoration Fund-raising Task Force

On behalf of the Organ Restoration Fund-raising Task Force I want to thank the Cathedral community who were so supportive of the project to raise such a significant amount of money to restore our beautiful organ. As you know, no major work has been undertaken since it was installed during the Great Depression, in 1930. Your generosity has enabled a long overdue overhaul and rebuild, providing a magnificent instrument, both in sound and appearance, for generations to come.

# Thomas Trotter, International Organist

"First Chords" marks the completion of a project that has taken many years to come to fruition. As a professional organist I continue to be thankful that people still care about pipe organs. The organ is an integral and indispensable part of the liturgical life of any Cathedral, and St Peter's Cathedral has an instrument to be proud of once again. Thomas Trotter will play the first formal Organ Recital on Friday 30 August 2019.

## Leonie Hempton OAM, Director of Music

The Cathedral Organ is fundamental to the musical life of St Peter's Cathedral. I don't think any of us realised just how important it was until it wasn't there! So, to say that we are "over the moon" with excitement at its return is an understatement. The project has drawn together so many people and created a bond within the Cathedral community such as no other that I can remember. The choristers and families have been part of this, particularly in the past few months as we've had the opportunity to climb the scaffolding, and discover the mysteries of tuning and voicing as demonstrated by the wonderful organ technicians from Harrison & Harrison. As new life has been given to our beloved instrument, so great inspiration has been given to the musicians and the entire community of St Peter's Cathedral.

## David Heah, Cathedral Organist

The Cathedral Organ has watched over a fine music tradition in this sacred space for almost 90 years. Generations of young choristers have gazed upwards, marvelled at this majestic instrument and, perhaps, daydreamed of being 'at the keys'. Almost two decades since I first sang with the Cathedral Organ as a boy chorister, what an immense privilege it is to play the first chords on this fine and noble instrument. Words fail to convey my gratitude for what this Cathedral's music program has given me – and countless others – in musical education and personal development. Not only has this project restored one of the finest instruments in the country; it has guaranteed decades of music that will inspire – not only the thousands of worshippers and visitors that visit this building – but the next generations of Cathedral musicians. "There let the pealing organ blow to the full-voic'd quire below" John Milton

## Shirley Gale, Organist Emerita

Since 2008 I have been longing for the restoration of this wonderful instrument. After years of consultation with Harrison and Harrison of Durham, UK, and others, and the subsequent generosity of donors, we can now enjoy what is one of the finest examples of an English Romantic organ. The internationally famous organist, Thomas Trotter, encouraged those of us in the organ loft in 2009, leaving no doubt of its iconic value. The organists who are now privileged to play it will marvel at its versatility and sound, while those listening and worshipping will be truly inspired for many years to come.

## Debt free by Christmas?

You can help achieve this goal by donating (donations are tax deductible)

- Eftpos available after tonight's service
- EFT: BSB 305-122, Acc No: 0256077
- Cheque to Music Foundation (Organ)
- http://www.musicfoundation.org.au/donate/

#### Cathedral 150 - a long term project

A project of the size and scope of the restoration of a cathedral organ is not something done in isolation. Tonight's celebration is the culmination of the first phase of a long term Cathedral Conservation Project timed to coincide with the 150<sup>th</sup> anniversary of the laying of the foundation stone in 1869. Before spending money on restoring a wonderful instrument we needed to ensure that the structure around it was sound and water tight. To this end two significant construction projects have been completed in 2018 – the Pennington Terrace Access and Stage One of the Cathedral Roof.

Funding for these two projects, a total of over \$600,000, came from accumulated Cathedral funds and grants from the City of Adelaide and the Synod of the Anglican Diocese of Adelaide. Many Cathedral people gave generously of their professional time and expertise – without which the costs would have been considerably higher. Donors – too numerous to mention by name have given generously, sacrificially and at times creatively to the Organ Restoration Project. (A full list of donors can be viewed in the Cathedral Office.)

#### **Pennington Terrace Access**

Andrew Marshall - Marshall & Brougham and associated sub-contractors Peter McBean - WGA

## Cathedral Conservation - Stage One (of seven)

Project Manager: Dr Janny Spilsbury Schakel

Cathedral Architect: Andrew Klenke – Swanbury Penglase Roofing: James Henry Roofing and associated sub-contractors

## **Cathedral Organ Restoration**

Project Managers: Carol Sim and David Heah. Treasurer: Kevin Stracey

Organ Fund-raising Task Force: Dr Rick Sawers AM, Don Donlan, Kathy Teague, David

Thomas, Penny Bowen

Organ Builders: Harrison & Harrison Ltd, UK

Work Site Safety: Settimio De Gregorio - Progetto Design and associated sub-contractors

Cathedral Administrator: Kate Palmrose

"The organ is in truth the grandest, the most daring, the most magnificent of all instruments invented by human genius. It is a whole orchestra in itself. It can express anything in response to a skilled touch. Surely it is, in some sort, a pedestal on which the soul poises for a flight forth into space." **Honoré de Balzac** 

## Your own unique collector's item?

A limited number of organ pipes from the Cathedral Organ are on sale at the Cathedral Shop. Each has its own unique identifying number, is mounted on recycled church timber, and comes with a certificate of authentication.



"To my eyes and ears the organ will ever be the King of Instruments." **Wolfgang Amadeus Mozart** 

The St Peter's Cathedral Organ was built by William Hill & Son and Norman & Beard in 1929. The lower corniced section of the case was donated in 1963 by its designer, Walter Bagot, and the upper section of the case was finally realised from an original sketch in 2018. The 32ft Contra Trombone was added in 1989 in memory of musicians associated with the cathedral. These full-length pipes are sited opposite the main organ chamber in the liturgical south transept where the original organ once resided.

The organ has been rebuilt with new electrical systems, and four new stops based on the original pipework scaling and tonal aesthetic have been provided. The romantic style and character of the 1929 organ have been preserved and the instrument remains one of the grandest and substantially musically unaltered organs in Australia, making it one of significant importance.

Organ Builders: Harrison & Harrison Ltd, Durham, UK

# **Organ specifications**

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Great Organ		Choir Organ (enclosed with Solo Organ)		
Double Open Diapason	16	Gedeckt	8	
Open Diapason No.1	8	Gamba	8	
Open Diapason No.2	8	Unda Maris (TC)	8	
Claribel Flute	8	Suabe Flute	4	
Corno Dolce	8	Salicet	4	
Principal	4	Harmonic Piccolo	2	
Harmonic Flute	4	Clarinet	8	
Quint Flute	2-2/3	Orchestral Oboe	8	
Fifteenth	2			
Sesquialtera 17.19.22	III	Suboctave		
Mixture 19.22.26	III	Octave		
Trumpet	8	Unison Off		
Clarion	4	Tremulant		
		Swell to Choir		
Swell to Great		Swell Octave to Choir		
Swell Suboctave to Great		Solo to Choir		
Swell Octave to Great		3010 to Chon		
Choir to Great		<b>Solo Organ</b> (enclosed with Choir Organ)		
Choir Suboctave to Great		Harmonic Flute		
			8	
Choir Octave to Great		Violoncello	8	
Solo to Great		Salicional	8	
Solo Suboctave to Great		Harmonic Flute	4	
Solo Octave to Great		Vox Humana	8	
		Tuba	8	Unenclosed
Swell Organ		Clarion	4	Unenclosed
Lieblich Bourdon	16			
Open Diapason	8	Suboctave		
Rohr Flöte	8	Octave		
Viol d'Orchestre	8	Unison Off		
Voix Celeste (TC)	8	Tremulant		
Principal	4			
Flute	4	Pedal Organ		
Fifteenth	2	Double Open Diapason	32	
Sesquialtera 12.17.19	III	Open Diapason	16	
Mixture 15.19.22	III	Contra Bass	16	
Oboe	8	Bourdon	16	
Contra Fagotto	16	Principal	8	
Cornopean	8	Violoncello	8	
Clarion	4	Bass Flute	8	
	_	Principal	4	
Suboctave		Contra Trombone	32	
Octave		Trombone	16	
Unison Off		Trumpet	8	
Tremulant		Trumpet	U	
Solo to Swell		Great to Pedal		
3010 to 3wen		Swell to Pedal		
Aggagarias				
Accessories		Choir to Pedal		
6 thumb pistons to Great Organ		Solo to Pedal		
6 thumb pistons to Swell Organ				
6 thumb pistons to Choir Organ				
6 thumb pistons to Solo Organ				
8 General thumb pistons				
Reversible thumb pistons to the usual couplers				
8 composition pedals to Swell Organ Pedals 7 and 8 for use with General pistons on Swell composition pedals				
6 composition pedals to Pedal Organ				
Reversible pedals for 32' Double Open Diapason and 32' Contra Trombone				

Reversible pedals for 32' Double Open Diapason and 32' Contra Trombone

Reversible pedals for Great to Pedal and Swell to Great

Great and Pedal combinations coupled

General pistons on Swell composition pedals

Sequencer with associated thumb and toe pistons

